

**KNOTT LANDFILL  
61055 SE 27th STREET  
BEND, OREGON**

**TITLE V TIER II NON-METHANE ORGANIC COMPOUNDS  
EMISSION CALCULATIONS**

PBS Project No. 80429.010  
November 2018

Prepared for:  
Deschutes County Department of Solid Waste  
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## **INTRODUCTION**

The activities described in this report were conducted in accordance with Task Order No. 2018-524.03 of the Services Contract between Deschutes County and PBS Engineering and Environmental Inc. (PBS), and in accordance with the DEQ Title V Operating Permit.

Deschutes County Solid Waste (DCSW) operates Knott Landfill in Bend Oregon (Figure 1) under Oregon Title V Operating Permit 09-0040-TV-01 (Title V Permit) issued by the Oregon DEQ in December 2016 (DEQ, 2016). DCSW operates a flare to control landfill gas (LFG) extracted from the areas of the landfill containing municipal waste. This includes LFG extraction from 35 gas extraction wells located within lined Cells 1 thru 3 and Area A2 (formerly Phase 1B Area). Municipal waste is also actively being placed in Cells 4 thru 7. As those cells are filled to capacity, the LFG extraction system will be expanded into those cells as needed to control LFG emissions (Figure 2).

## **PURPOSE AND REGULATORY REQUIREMENTS**

As required by the Facility's Title V Permit and New Source Performance Standards (NSPS) 40 CFR Part 60 Subpart WWW Standard of Performance for Municipal Solid Waste Landfills, DCSW must comply with 40 CFR 60.752(b)(2) or calculate an annual emission rate for non-methane organic compounds (NMOC) to demonstrate compliance with the 50 Mega-gram per year (Mg/yr) limit for the landfill over each of the next five years. If the NMOC limit is calculated to exceed the limit in any of the next five years, the installation of a gas control and collection system (GCCS) for the landfill would be required. The most recent Tier II NMOC sampling, analysis and calculation for Knott Landfill was previously conducted in September 2013 following DEQ approval (DEQ, 2018) of the sample and analysis plan (PBS, 2013a). At that time, the peak NMOC generation rate was estimated to range from 19.85 Mg/yr in 2013 to 24.5 Mg/yr in 2017, well below the 50 Mg/yr limit (PBS, 2013b).

## **FIELD SAMPLING PROCEDURES**

The Facility's NMOC emission rate was previously calculated using a Tier II sampling and analysis procedure as provided in 40CFR 60.754(a)(3). PBS proposed using the same procedure in the DEQ approved work plan. EPA requires two LFG samples be collected per hectare (up to 50 samples) of landfill surface that has retained waste for at least two years. Based on County records, waste began being placed in the newest cell (Cell 7) in May 2018 and therefore, this cell was not subject to sampling. Waste placement began in Cell 6 in June 2015 and only about 50 percent of Cell 6 had waste as of July 2016. Therefore, the landfill surface area subject to this sampling event included the closed portion of Area A that contained municipal waste (Area A2 or Phase 1B), lined Cells 1 through 5 plus the south-central portion of Cell 6, covering an area of 67.02 acres (27.13 hectares). Based on this estimated area, the maximum number of samples would need to be collected from beneath the landfill soil cover material. PBS utilized a composite sampling method (three sample location aliquots per sample), resulting in a total of 51 sample locations collected into 17 composite samples to maintain the same number of subsamples per sample. This is one sample more than the 50-sample limit.

Prior to drilling the boreholes, PBS coordinated with DCSW staff to locate borings in locations to avoid buried gas collection lines and other utilities. In addition, PBS worked with DCSW to locate sample points to achieve the broadest coverage while avoiding utilities, areas with insufficient waste, or other areas that would compromise efforts to obtain representative data.

PBS contracted with Pacific Soil and Water Inc. (PSW), to provide drilling services for the project. PSW advanced each borehole using a direct push drilling rig and Geoprobe Systems® post-run tooling (PRT) system to collect subsurface LFG samples as described in the workplan for the project (PBS, 2018). Prior to installing the PRT fittings, downhole gas readings were initially monitored using a Landtec GEM 2000-Plus field LFG monitoring device to verify that sufficient concentrations of methane and carbon dioxide were present at depth to yield a nitrogen balance of about 10 percent.



In a few cases boreholes were deepened to achieve the desired LFG ratios. The boreholes were advanced to depths between 6 and 12 feet below ground surface (bgs) with most of the boreholes being advanced to a depth of 6 to 8 feet bgs. The PRT system allows the Teflon sample tubing to be inserted through the rods and locked into an O-ring fitting to provide a seal from atmospheric conditions.

The GEM 2000-Plus was used to purge the sample tubing and verify that methane and carbon dioxide levels combined were approximately 90 percent prior to LFG sampling. The GEM 2000-Plus was connected through a t-connector to the sample tubing. The other end of the t-connector was coupled to the regulator control valve for the SUMMA canister. The LFG monitoring field forms are provided in Appendix A (see disc).

Once the LFG monitoring was complete, the regulator control valve was opened and LFG samples were collected through dedicated Teflon®-lined tubing into six-liter SUMMA canisters. Each sample aliquot contained approximately equal volumes of LFG from the three distinct direct-push boring sample locations that made up the composite sample. Each SUMMA canister was filled leaving approximately 4 to 5 inches of mercury (in-Hg) vacuum per the sampling protocol. A total of 17 canisters were filled from the 51 sample locations. The SUMMA Canister Sampling Field Forms are included in Appendix A (see disc). Approximate sample locations are shown on Figure 2. Some of the locations originally selected in the active portions of the landfill had to be relocated to avoid active fill areas, newly placed waste, steep slopes and areas with less than three feet of waste. In addition, over 20 locations were drilled but had to be relocated because the field measurements did not contain sufficient methane or balance gases exceeding 20 percent. The majority of these relocations occurred in Area A2.

Once each SUMMA canister has been filled with sample aliquots from three locations, it was sealed, packaged, and shipped under a chain-of-custody form to the testing laboratory for analysis. Copies of the completed chain of custody forms are provided in Appendix B (see disc).

## **LABORATORY ANALYSIS AND DATA QUALITY REVIEW**

The samples were sent by overnight courier to TestAmerica Inc.'s air quality laboratory in Burlington, Vermont for analysis. All composited samples were analyzed for NMOCs by EPA Method 25C and nitrogen and oxygen by EPA Method 3C. The laboratory provided a complete data summary along with organic sample and quality control data. All canisters underwent bulk quality control analysis (batch certification). Due to the compositing sampling scheme, field duplicate samples were not collected.

PBS conducted a data quality review (DQR) prior to accepting the data for evaluation. Upon consideration of the information presented in the laboratory reports, the data are considered usable based on EPA guidance documents referenced in the DQR. The laboratory reports for EPA Method 3C and 25C and the DQR are included in Appendix B (see disc).

## **FINDINGS**

A total 51 boreholes were advanced into the areas of the landfill with municipal waste. In a few instances boreholes were advanced a few feet deeper to achieve the LFG field monitoring of achieving a nitrogen balance of 10 percent by volume (pbv). Field measurements of 51 sampling locations were the following:

- Methane concentrations ranged between 36.7 and 59.9 pbv, with an average of 54 pbv.
- Carbon dioxide concentrations ranged between 37.9 and 52.8 pbv, with an average of 41.6 pbv.
- Oxygen concentrations ranged between 0.0 pbv and 1.5 pbv, with an average of 0.2 pbv.
- The balance gas concentration, assuming all of the remaining gas is nitrogen ranged between 0 and 25.0 pbv, with an average of 5.5 pbv. The average nitrogen concentration per composite sample ranged between 0.0 and 21.4 pbv. Only one sample exceeded 15.0 pbv.

The laboratory analysis of the 17 composite samples using Method 3C indicates the following:

- Methane concentrations ranging between 40 and 63pbv, with an average of 55 pbv.
- Carbon dioxide concentrations ranging between 38 and 49 pbv, with an average of 43 pbv.
- Nitrogen concentrations ranging between 1.2 and 22 pbv, with an average of 8.1 pbv. Only one sample (KTSG-COMP-4) contained a nitrogen concentration greater than 20 pbv.

Laboratory analysis of the 17 composite samples contained reported concentrations of NMOC as carbon ranging from 940 (KTSG-COMP-9) to 7,800 (KTSG-COMP-14) parts per million by volume (ppmv). The laboratory NMOC results were corrected in order to use them in the data evaluation described below. This included following parameters: laboratory dilution factor, canister pressures, temperature, vapor pressure and moisture content of sample. The field and laboratory data are summarized in Table 2.

## DATA EVALUATION

A site specific NMOC concentration was determined using the Tier 2 methodology as described in 40 CFR 60.754(a)(3) and EPA Method 25C (Appendix A of 40 CFR 60). The sampling was conducted as described above.

Laboratory measured NMOC values ( $C_{tm}$ ) were converted to the final NMOC value ( $C_t$ ) using field parameters and Method 25C equation 25C-4 as shown below:

Equation 1:

$$C_t = \frac{\frac{P_{tf}}{T_{tf}}}{\frac{P_t}{T_t} - \frac{P_{ti}}{T_{ti}}} \frac{1}{\left(1 - \frac{99}{78} C_{N_2}\right) - B_w} \frac{1}{r} \sum_{j=1}^r C_{tm (j)}$$

Definitions and details of each parameter are identified in the Method descriptions. An example calculation for Sample KTSG-COMP-1 is as follows:

$$\begin{aligned} P_{ti} &= (P_{start} \text{ (in. Hg)} \times 25.4 \text{ mm/in} + P_b \text{ (in Hg)} \times 25.4 \text{ mm/in}) \\ &= -711.2 + 669.3 = -41.9 \text{ mmHg} \\ T_{ti} &= ((T_{ti} \text{ (}^\circ\text{F)} - 32) \times 5/9)(^\circ\text{C}) + 273.1 \text{ K} \\ &= ((64 - 32) \times 5/9) + 273.1 = 291 \text{ K} \\ P_t &= P_{stop} \text{ (in. Hg)} \times 25.4 \text{ mm/in} + P_b \text{ (in Hg)} \times 25.4 \text{ mm/in}) \\ &= -101.6 + 669.3 = 567.7 \text{ mmHg} \\ T_t &= ((T_t \text{ (}^\circ\text{F)} - 32) \times 5/9)(^\circ\text{C}) + 273.1 \text{ K} \\ &= ((73.2 - 32) \times 5/9) + 273.1 = 296 \text{ K} \\ P_{tf} &= (\text{Canister P (psig)} \times 51.724 \text{ mmHg/psig}) + (P_{b(lab)} \text{ (in. Hg)} \times 25.4 \text{ mm/in}) = \\ &= (4.5 \times 51.724) + (29.42 \times 25.4) = 980.0 \text{ mmHg} \\ T_{tf} &= (T_{lab} \text{ (}^\circ\text{C)} + 273.1 \text{ (K)}) \\ &= 27.5 + 273.1 = 301 \text{ K} \end{aligned}$$

The nitrogen ( $N_2$ ) correction factor is determined using the field-measured  $N_2$  concentration (as a fraction).  $C_{N_2}$  is the average nitrogen content of the samples in the canister, where each sample  $N_2$  was determined by balance after measuring the percentage of methane ( $CH_4$ ), carbon dioxide ( $CO_2$ ), and oxygen ( $O_2$ ), assuming the remaining gas in the canister is  $N_2$ . By Method 25C standards,  $C_{N_2}$  is required to be below 20 percent or oxygen levels must be below 5 percent. In addition,  $C_{N_2}$  values for each cylinder were measured by TestAmerica using Method 3C.

One composite sample (KTSG-COMP-4) had a C<sub>N2</sub> level of 22 percent, greater than the 20 percent limit, and an oxygen content of 0.62 percent, below the 5 percent limit. For this composite sample, oxygen correction (Eq. 25C-5) was used in place of the nitrogen correction (Eq. 25C-4).

The moisture content of the sample (B<sub>w</sub>) is determined using the temperature of the sample as collected in the field and the field barometric pressure. The vapor pressure of water is temperature dependent. Table 25C-1 of Method 25C presents values for the vapor pressure of water based on temperature.

$$\begin{aligned}
 T_w &= \text{Average temperature during sample collection} \\
 &= (((64.0 + 67.0 + 75.9 + 67.9 + 67.6 + 73.2) / 6) - 32) \times 5/9 \text{ (}^\circ\text{C)} = 20.7 \text{ }^\circ\text{C} \\
 P_w &= \text{Vapor pressure of water (mmHg)} \\
 &= 18.65 \text{ mmHg (from Method 25C Table 25C-1)} \\
 P_b &= \text{Field barometric pressure (mmHg)} \\
 &= P_{b(\text{field\_ave})} \text{ (in. Hg)} \times 25.4 \text{ mm/in} \\
 &= ((26.35 + 26.35 + 26.35)/3) \times 25.4 \text{ mm/in} = 669.3 \text{ mmHg} \\
 B_w &= \text{Moisture content} \\
 &= P_w/P_b \\
 &= 18.65 / 669.3 = 0.0278
 \end{aligned}$$

The laboratory provided NMOC concentrations (C<sub>tm(lab)</sub>) expressed as parts per million by volume (ppmv) as carbon includes a canister dilution factor. The canister dilution factor is the laboratory measured canister pressure after pressurizing with helium divided by the laboratory measured canister pressure before pressurizing. To obtain the C<sub>tm</sub> used in the equation above, this value (C<sub>tm(lab)</sub>) is divided by the laboratory canister dilution factor. The final temperature (T<sub>tf</sub>) and pressure (P<sub>tf</sub>) at the laboratory and field values for pressure (P<sub>ti</sub> and P<sub>t</sub>) and temperature (T<sub>ti</sub> and T<sub>t</sub>) are then applied to determine the field-derived dilution factor:

$$\begin{aligned}
 C_{tm} &= C_{tm(\text{lab})} \text{ (ppmv)} / \text{dilution factor} \\
 &= 1500 / 1.61 = 931.7 \text{ ppmv}
 \end{aligned}$$

The last part of the equation is the summation of the parts of the of the NMOC concentrations. Since the laboratory provides the average concentration, the summation operation is not necessary and C<sub>tm</sub> can be used in the equations (Equation 1).

$$\begin{aligned}
 C_t &= \frac{(980.0/301)}{(567.7/296) - (-41.9/291)} \times \frac{1}{(1 - (99/78 \times 0.128)) - 0.02787} \times 931.7 \\
 &= 3.256 / (1.918 - (-0.1440)) \times 1 / ((1 - 0.1625) - 0.02787) \times 931.7 \\
 &= 3.256 / 2.062 \times 1.235 \times 931.7 \\
 &= 1817 \text{ ppmv as carbon}
 \end{aligned}$$

### NMOC Emission Calculations

NMOC emission estimates were evaluated using the equations found in Subpart WWW specifically, equations 40 CFR 60.754 (a)(1)(i) (Equation 1) and 40 CFR 60.754 (a)(1)(ii) (Equation 2).

Equation 1:

$$M_{NMOC} = \sum_{X=1}^n 2 k L_o M_i (e^{-kt_i})(C_{NMOC})(3.6 \times 10^{-9}) \quad (\text{eq. 40 CFR 60.754(a)(1)(i)})$$

Equation 2:

$$M_{NMOC} = 2 L_o R (e^{-kc} - e^{-kt}) (C_{NMOC})(3.6 \times 10^{-9}) \quad (\text{eq. 40 CFR 60.754(a)(1)(ii)})$$

Constants:

CH <sub>4</sub> generation rate <sup>1</sup>	k = 0.02 year <sup>-1</sup>
CH <sub>4</sub> generation potential <sup>2</sup>	L <sub>o</sub> = 170 m <sup>3</sup> /Mg
Concentration of NMOC <sup>3</sup>	C <sub>NMOC</sub> = 325 ppmv (as hexane)

<sup>1</sup> The value for k is based on 40 CFR 60.754(a)(1) and an analysis of annual rainfall. Rainfall is less than 25 inches per year in Bend, Oregon.

<sup>2</sup> NSPS default value

<sup>3</sup> Site-specific value for Knott Landfill

Variables:

M<sub>NMOC</sub> = Total NMOC emission rate from the landfill, megagrams per year

M<sub>i</sub> = Mass of solid waste in the i<sup>th</sup> section, megagrams

t<sub>i</sub> = Age of the i<sup>th</sup>, section, years

C = time since closure, years; c=0 and e<sup>-kc</sup> = 1

Equation 1 is specified for use in calculating M<sub>NMOC</sub> by the Facility's Title V Operating Permit (#09-0040-TV-01) in Condition 16. This equation is to be utilized per 40 CFR 60.754 (a)(1)(i) when actual year-to-year solid waste acceptance rates are known. Equation 2 is specified for use when the actual solid waste acceptance rate is unknown and estimates are utilized. Calculations have been provided utilizing Equation 1 and inserting estimated waste acceptance rates for the periods 1972 through 1983 and 2018 through 2023 in Table 3A. Table 3B utilizes Equation 2 in place of Equation 1 for years in which the waste acceptance rate has been estimated.

For purposes of compliance with OAR 340-238-0100, the peak NMOC generation rate using Equation 1 exclusively is estimated to be 19.95 Mg/yr in 2018 to 26.75 Mg/yr in 2023 (Table 3A). The peak NMOC generation rate using both Equations 1 and 2 is estimated to be 21.3 Mg/yr in 2018 and 28.3 Mg/yr in 2023 (Table 3B).

### CONCLUSION

The calculations presented in Table 3A and 3B show that the site's generation rate of NMOC is below the 50 megagrams per year threshold and is predicted to remain so for the next five years.

Based on these findings, Deschutes County is requesting that the facility update the NMOC generation report in five years (or as necessary), per 40 CFR 60.757 (b)(1)(ii), based on updated forecasts of waste rates, and an updated NMOC concentration for the landfill, if new waste areas are applicable for testing.

This report needs to be submitted to DEQ on or before November 30, 2018.

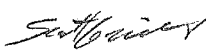
This report has been prepared under the direction of the undersigned:

PBS Engineering and Environmental Inc.

 Digitally signed by  
Toby Scott  
Date: 2018.11.28  
14:51:24 -08'00'

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N. Toby Scott, R.G.                                  Date  
Sr. Project Manager/Hydrogeologist

 Digitally signed  
by Scott Grimes  
Date: 2018.11.28  
14:55:55 -08'00'

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Scott Grimes    Date  
Sr. Regulatory/Compliance Specialist

**Supporting Data:**

- Figure 1 – Site Vicinity Map
- Figure 2 – Sample Locations - Knott Landfill
- Table 1 – Waste Disposal Summary
- Table 2 – Tier 2 NMOC Sampling Summary
- Table 3A – Projected  $M_{NMOC}$
- Table 3B – Projected  $M_{NMOC}$
- Appendix A – Field Forms (disc)
- Appendix B – Laboratory Analysis for EPA Method 3C and 25C (disc)

**REFERENCES**

Oregon DEQ, 2016, Title V Operating Permit, Deschutes County Department of Solid Waste, Knott Landfill, Permit No. 09-0040-TV-01, DEQ Issue Date December 21, 2016.

Oregon DEQ, 2018, Knott Landfill – NMOC Tier 2 Sampling Plan Title V Permit: 09-0040, Letter dated Sept. 18, 2018.

PBS, 2013a, Tier 2 Sampling and Analysis Plan- Revised, Knott Landfill, Deschutes County, August 5, 2013.

PBS, 2013b, Tier 2 Report of NMOC Emission Calculations for the Deschutes County Knott Landfill – Revision 2, dated October 22, 2013.

PBS, 2018, Tier 2 Sampling and Analysis Plan, Knott Landfill, Deschutes County, August, 2018.

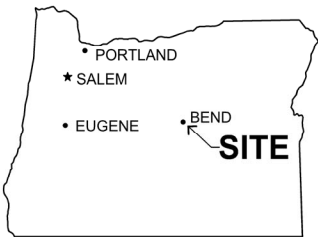
## **FIGURES**

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SOURCE: 2017 GOOGLE EARCH PRO, 2017 GOOGLE



OREGON



NOT TO SCALE

PREPARED FOR: DESCHUTES COUNTY DEPARTMENT OF SOLID WASTE



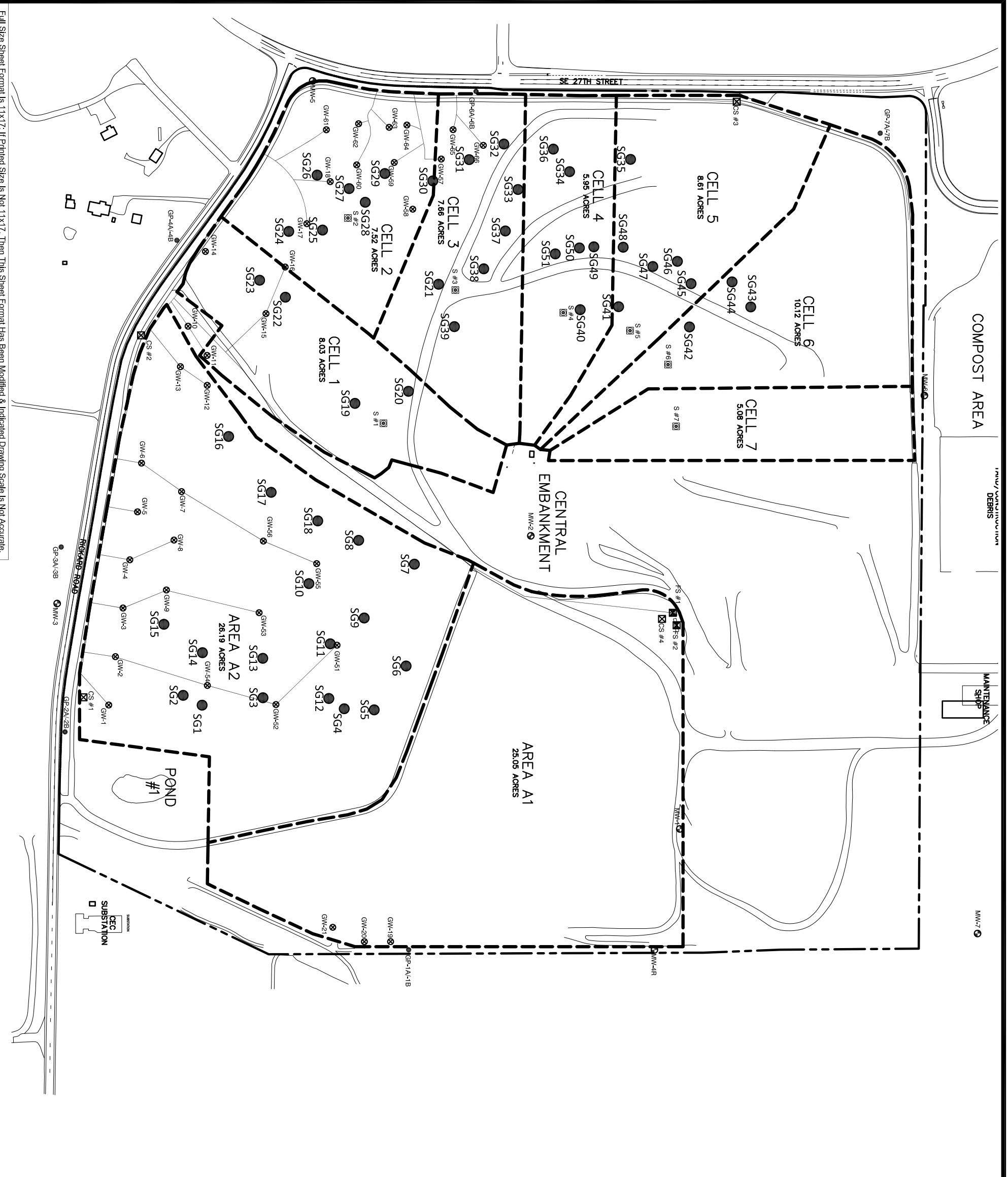
### VICINITY MAP

KNOTT LANDFILL - 61050 SE 27TH STREET  
BEND, OREGON

NOV 2018  
80429.010

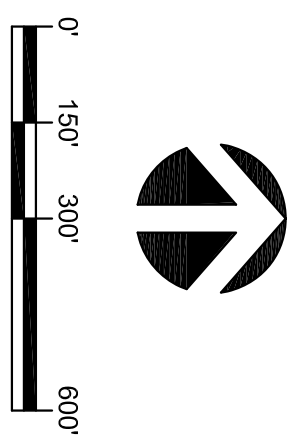
FIGURE

1



Full Size Sheet Format Is 11x17. If Printed Size Is Not 11x17, Then This Sheet Format Has Been Modified & Indicated Drawing Scale Is Not Accurate.

LEGEND	
	CELL BOUNDARY
	PROPERTY LINE
	MONITORING WELL
	GAS EXTRACTION WELL
	GAS PROBE
	FLARE STATION
	CELL SUMP
	CONDENSATION SUMP
	LFG SAMPLE LOCATION



KNOTT SITE PLAN FOR:  
**DESCHUTES COUNTY - KNOTT LANDFILL**  
 DEPARTMENT OF SOLID WASTE: 61050 SE 27TH ST, BEND, OR 97702



**PBS Engineering and Environmental Inc.**  
 390 NE Emerson Ave, Ste 201  
 Bend, OR 97701  
 541.388.9290  
 pbsusa.com

DESIGNED:  
 CHECKED:  
 NOV 2018  
 80429.010  
 SHEET ID  
**FIG 2**



## **TABLES**

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**Table 1** **PBS Project No. 80429.010**  
**Waste Disposal Summary** **November 2018**  
**Knott Landfill - Bend, Oregon**

<b>YEAR</b>	<b>Annual Solid Waste (tons)</b>	<b>Cumulative Waste (tons)</b>	<b>Annual Solid Waste (Megagrams)</b>	<b>Cummulative Waste (Megagrams)</b>
1972 <sup>1</sup>	26,246	26,246	23,810	23,810
1973 <sup>1</sup>	26,781	53,027	24,295	48,105
1974 <sup>1</sup>	27,328	80,355	24,791	72,896
1975 <sup>1</sup>	27,886	108,241	25,298	98,194
1976 <sup>1</sup>	28,455	136,696	25,814	124,008
1977 <sup>1</sup>	29,036	165,732	26,341	150,349
1978 <sup>1</sup>	29,628	195,360	26,878	177,227
1979 <sup>1</sup>	30,233	225,593	27,427	204,653
1980 <sup>1</sup>	30,850	256,443	27,987	232,640
1981 <sup>1</sup>	31,479	287,922	28,557	261,197
1982 <sup>1</sup>	32,122	320,044	29,140	290,338
1983 <sup>1</sup>	32,777	352,821	29,735	320,072
1984 <sup>2</sup>	33,446	386,267	30,342	350,414
1985 <sup>2</sup>	35,826	422,093	32,501	382,914
1986 <sup>2</sup>	36,175	458,268	32,817	415,732
1987 <sup>2</sup>	36,665	494,933	33,262	448,993
1988 <sup>2</sup>	40,929	535,862	37,130	486,123
1989 <sup>2</sup>	45,969	581,831	41,702	527,825
1990 <sup>2</sup>	53,115	634,946	48,185	576,010
1991 <sup>2</sup>	46,091	681,037	41,813	617,823
1992 <sup>2</sup>	54,182	735,219	49,153	666,976
1993 <sup>2</sup>	68,569	803,788	62,204	729,180
1994 <sup>2</sup>	68,394	872,182	62,046	791,226
1995 <sup>2</sup>	75,886	948,068	68,842	860,068
1996 <sup>2</sup>	78,379	1,026,447	71,104	931,172
1997 <sup>2</sup>	95,746	1,122,193	86,859	1,018,031
1998 <sup>2</sup>	104,199	1,226,392	94,527	1,112,558
1999 <sup>2</sup>	113,131	1,339,523	102,630	1,215,188
2000 <sup>2</sup>	113,331	1,452,854	102,812	1,318,000
2001 <sup>2</sup>	115,022	1,567,876	104,346	1,422,346
2002 <sup>2</sup>	135,530	1,703,406	122,950	1,545,296
2003 <sup>2</sup>	143,745	1,847,151	130,403	1,675,698
2004 <sup>2</sup>	162,011	2,009,162	146,973	1,822,672
2005 <sup>2</sup>	168,335	2,177,497	152,710	1,975,382
2006 <sup>2</sup>	186,572	2,364,069	169,254	2,144,636
2007 <sup>2</sup>	172,294	2,536,363	156,302	2,300,938
2008 <sup>2</sup>	136,036	2,672,399	123,409	2,424,347
2009 <sup>2</sup>	112,735	2,785,134	102,271	2,526,618
2010 <sup>2</sup>	110,601	2,895,735	100,335	2,626,953
2011 <sup>2</sup>	107,315	3,003,050	97,354	2,724,307
2012 <sup>2</sup>	109,587	3,112,637	99,415	2,823,722
2013 <sup>2</sup>	119,264	3,231,901	108,195	2,931,917
2014 <sup>2</sup>	130,617	3,362,519	118,494	3,050,411
2015 <sup>2</sup>	144,980	3,507,499	131,524	3,181,935
2016 <sup>2</sup>	161,081	3,668,579	146,130	3,328,065
2017 <sup>2</sup>	179,125	3,847,705	162,500	3,490,565
2018 <sup>3</sup>	184,103	4,031,808	167,015	3,657,580
2019 <sup>3</sup>	188,521	4,220,329	171,022	3,828,602
2020 <sup>3</sup>	191,688	4,412,017	173,896	4,002,498
2021 <sup>3</sup>	195,713	4,607,730	177,547	4,180,045
2022 <sup>3</sup>	199,823	4,807,553	181,275	4,361,320
2023 <sup>3</sup>	204,019	5,011,572	185,082	4,546,402

**Notes:**

- 1- Waste volumes from 1972 thru 1983 were estimated based on a 2% population growth rate based on the City of Bend data
- 2- Waste volumes from 1984 thru 2017 DEQ quarterly reports submitted by Deschutes County for Knott Landfill
- 3- Waste volumes for 2018 through 2023 were estimated by Deschutes County



**Table 3A - Projected M<sub>NMOC</sub>  
Knott Landfill - Bend, Oregon**

**PBS Project 80429.010  
November 2018**

k = 0.02 year<sup>-1</sup>  
L<sub>0</sub> = 170 m<sup>3</sup>/Mg  
C<sub>NMOC</sub> = 325 ppmv (as hexane)

Year	Waste Acceptance (Mg/yr)	Age of i <sup>th</sup> layer	M <sub>NMOC</sub> (Mg/yr) (Mg/yr)	Total M <sub>NMOC</sub> (Mg/yr) (Mg/yr)
1972	23810	51	0.09	0.09
1973	24295	50	0.07	0.16
1974	24792	49	0.07	0.24
1975	25298	48	0.08	0.31
1976	25814	47	0.08	0.39
1977	26341	46	0.08	0.48
1978	26878	45	0.09	0.56
1979	27427	44	0.09	0.65
1980	27987	43	0.09	0.75
1981	28557	42	0.10	0.85
1982	29141	41	0.10	0.95
1983	29735	40	0.11	1.05
1984	30342	39	0.11	1.16
1985	32501	38	0.12	1.29
1986	32817	37	0.12	1.41
1987	33262	36	0.13	1.54
1988	37130	35	0.15	1.69
1989	41702	34	0.17	1.85
1990	48185	33	0.20	2.05
1991	41813	32	0.18	2.23
1992	49153	31	0.21	2.44
1993	62205	30	0.27	2.71
1994	62046	29	0.28	2.99
1995	68843	28	0.31	3.30
1996	71104	27	0.33	3.63
1997	86859	26	0.41	4.04
1998	94528	25	0.46	4.50
1999	102631	24	0.51	5.00
2000	102812	23	0.52	5.52
2001	104346	22	0.53	6.05
2002	122951	21	0.64	6.69
2003	130403	20	0.70	7.39
2004	146974	19	0.80	8.19
2005	152711	18	0.85	9.04
2006	169256	17	0.96	10.00
2007	156303	16	0.90	10.90
2008	128560	15	0.76	11.66
2009	105685	14	0.64	12.29
2010	103699	13	0.64	12.93
2011	100252	12	0.63	13.56
2012	102384	11	0.65	14.21
2013	108195	10	0.70	14.91
2014	118494	9	0.79	15.70
2015	131524	8	0.89	16.59
2016	146130	7	1.01	17.60
2017	162500	6	1.15	18.75
2018	167016	5	1.20	19.95
2019	171023	4	1.26	21.21
2020	173897	3	1.30	22.51
2021	177548	2	1.36	23.87
2022	181276	1	1.41	25.28
2023	185083	0	1.47	26.75

Calculation based on Equation 1

$$M_{nmoc} = \sum_{x=1}^n k L_0 M_i (e^{-kt})_i (C_{NMOC})(3.6 \times 10^{-9}) \quad (\text{eq. 40 CFR 60.754(a)(1)(i)})$$

**Table 3B - Projected M<sub>NMOC</sub>  
Knott Landfill - Bend, Oregon**

**PBS Project 80429.010  
November 2018**

k = 0.02 year<sup>-1</sup>  
L<sub>0</sub> = 170 m<sup>3</sup>/Mg  
C<sub>NMOC</sub> = 325 ppmv (as hexane)

Year	Waste Acceptance (Mg/yr)	Age of i <sup>th</sup> layer	M <sub>NMOC</sub> (Mg/yr)	Total M <sub>NMOC</sub> (Mg/yr)	
1972	23810	45	0.19	0.2	Equation 2
1973	24295	44	0.19	0.4	
1974	24792	43	0.20	0.6	
1975	25298	42	0.20	0.8	
1976	25814	41	0.20	1.0	
1977	26341	40	0.21	1.2	
1978	26878	39	0.21	1.4	
1979	27427	38	0.22	1.6	
1980	27987	37	0.22	1.8	
1981	28557	36	0.22	2.1	
1982	29141	35	0.23	2.3	
1983	29735	34	0.23	2.5	
1984	30342	33	0.12	0.1	Equation 1
1985	32501	32	0.14	0.3	
1986	32817	31	0.14	0.4	
1987	33262	30	0.15	0.5	
1988	37130	29	0.17	0.7	
1989	41702	28	0.19	0.9	
1990	48185	27	0.22	1.1	
1991	41813	26	0.20	1.3	
1992	49153	25	0.24	1.6	
1993	62205	24	0.31	1.9	
1994	62046	23	0.31	2.2	
1995	68843	22	0.35	2.5	
1996	71104	21	0.37	2.9	
1997	86859	20	0.46	3.4	
1998	94528	19	0.51	3.9	
1999	102631	18	0.57	4.4	
2000	102812	17	0.58	5.0	
2001	104346	16	0.60	5.6	
2002	122951	15	0.72	6.4	
2003	130403	14	0.78	7.1	
2004	146974	13	0.90	8.0	
2005	152711	12	0.96	9.0	
2006	169256	11	1.08	10.1	
2007	156303	10	1.02	11.1	
2008	128560	9	0.85	12.0	
2009	105865	8	0.72	12.7	
2010	103699	7	0.72	13.4	
2011	100252	6	0.71	14.1	
2012	102384	5	0.74	14.8	
2013	108195	4	0.79	15.6	
2014	118494	3	0.89	16.5	
2015	131524	2	1.01	17.5	
2016	146130	1	1.14	18.7	
2017	162500	0	1.29	20.0	
2018	167016	5	1.32	21.3	Equation 2
2019	171023	4	1.35	22.6	
2020	173897	3	1.37	24.0	
2021	177548	2	1.40	25.4	
2022	181276	1	1.43	26.8	
2023	185083	0	1.46	28.3	

Calculations based on Equation 1 and Equation 2 depending on whether the waste acceptance rate is known or unknown.

**Equation 1**

(Used when acceptance rate is known)

$$M_{nmoc} = \sum_{x=1}^n 2 k L_0 M_i (e^{-kt}) (C_{NMOC})(3.6 \times 10^{-9}) \quad (\text{eq. 40 CFR 60.754(a)(1)(i)})$$

**Equation 2**

(Used when acceptance rate is unknown)

$$M_{nmoc} = 2 L_0 R (e^{-kc} - e^{-kt}) (C_{NMOC})(3.6 \times 10^{-9}) \quad (\text{eq. 40 CFR 60.754 (a) (1) (ii)})$$

$$R = \frac{133368.6 \text{ Mg/yr}}{1 \text{ yrs}}$$

$$t = 0 \text{ years (landfill is currently active)}$$

$$c = 0 \text{ years (landfill is currently active)}$$

Calculate each year individually using Equation 2 (i.e., t=1).

**Notes:**

Waste acceptance rate known for 1984 through 2017, all other acceptance rates are estimates.

**APPENDIX A (see disc)**

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**Field Form – Summa Canister Sampling**

PBS Project No.: 80439.010  
Site Name: Knott

Date: 9-24-18  
Sample ID: KT-SG-Comp 1

Sample Location: SG-1 Sample Depth: 10' 8"  
Reg. No.: 6541 Canister No. 5730

A Original Press: -28 B Est. Final Press = 5 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
 $\nabla$  Vacuum (A-B+C) = 28-5=23 / 3 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure 5 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>28</u> mm Hg	Start: <u>8:52</u>	Initial: <u>26.35</u> mm Hg	Initial: <u>61.64.0</u>
Final: <u>20</u> in Hg	Stop: <u>8:58</u>	Final: <u>26.35</u> in Hg	Final: <u>67.9</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Ambient = 49°

Sample Location: SG-2 Sample Depth: 8'  
Reg. No.: 6541 Canister No. 5730

A Original Press: 20 B Est. Final Press = 9 in Hg C No. of Aliquots 3  
 $\nabla$  Vacuum (A-B+C) = 20-9=11 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure 12 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>20</u> mm Hg	Start: <u>9:43</u>	Initial: <u>26.35</u> mm Hg	Initial: <u>67.0</u>
Final: <u>12</u> in Hg	Stop: <u>9:52</u>	Final: <u>26.35</u> in Hg	Final: <u>67.6</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-3 Sample Depth: 8' 12"  
Reg. No.: 6541 Canister No. 5730

A Original Press: 12 B Est. Final Press = 4 in Hg C No. of Aliquots 3  
 $\nabla$  Vacuum (A-B+C) = 12-4=8 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 4 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>12</u> mm Hg	Start: <u>1041</u>	Initial: <u>26.35</u> mm Hg	Initial: <u>75.9</u>
Final: <u>4</u> in Hg	Stop: <u>1054</u>	Final: <u>26.35</u> in Hg	Final: <u>73.2</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_







**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-2  
 Site Name: Knots Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 10 Tubing Purge Time (minute): 42 sec  
 Barometric Pressure (inches Hg): 26.35 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	58.6		
Carbon Dioxide (CO <sub>2</sub> )	%	41.2		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: Move 10' to east, no methane. Move 40' south

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-3

Site Name: Knott

Sample Depth, if applicable (ft bgs) 12'

Date: 9-24-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-24-18

Tubing Length (ft): 13'

Tubing Purge Time (minute): 55 sec

Barometric Pressure (inches Hg): 26.35

Source of data: GEM.

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	51.3		26.35
Carbon Dioxide (CO <sub>2</sub> )	%	39.9		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	balance 8.7		

Comments/Observations: Move 15' to west, move 25' to South. This area typically has CH<sub>4</sub> ≈ 36% according to Matt. Second try CH<sub>4</sub> only 4%. Drilled deeper. to 12'

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
 Site Name: Knott

Date: 9-24-18  
 Sample ID: KTSG-Comp-2

Sample Location: SG-4  
 Reg. No.: 4704

Sample Depth: 10 12  
 Canister No. 2659

A Original Press: 27-5=22/3=8.7 B Est. Final Press = 5 in Hg C No. of Aliquots **3** (Note Final Press. ~5" Hg)

▽ Vacuum (A-B+C) = \_\_\_\_\_ in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure		Sampling Time		Baro. Pressure		Temperature	
Initial:	<u>27</u> mm Hg	Start:	<u>11:54</u>	Initial:	<u>26.37</u> mm Hg	Initial:	<u>83.4</u>
Final:	<u>20</u> in Hg	Stop:	<u>12:02</u>	Final:	<u>26.37</u> in Hg	Final:	<u>85.3</u>
	(Circle one)				Circle one	Downhole Temp.	_____ °F

Sample Location: SG-5  
 Reg. No.: 4704

Sample Depth: 12'  
 Canister No. 2659

A Original Press: 20 B Est. Final Press = 5 in Hg C No. of Aliquots **3**

▽ Vacuum (A-B+C) = 20-7=13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure		Sampling Time		Baro. Pressure		Temperature	
Initial:	<u>20</u> mm Hg	Start:	<u>12:25</u>	Initial:	<u>26.37</u> mm Hg	Initial:	<u>88.6</u>
Final:	<u>13</u> in Hg	Stop:	<u>12:32</u>	Final:	<u>26.37</u> in Hg	Final:	<u>92.3</u>
	(Circle one)				Circle one	Downhole Temp.	_____ °F

Sample Location: SG-6  
 Reg. No.: 4704

Sample Depth: 12'  
 Canister No. 2659

A Original Press: 13 B Est. Final Press = 6 in Hg C No. of Aliquots **3**

▽ Vacuum (A-B+C) = \_\_\_\_\_ in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure		Sampling Time		Baro. Pressure		Temperature	
Initial:	<u>13</u> mm Hg	Start:	<u>13:11</u>	Initial:	<u>26.38</u> mm Hg	Initial:	<u>86.7</u>
Final:	<u>6</u> in Hg	Stop:	<u>13:19</u>	Final:	<u>26.38</u> in Hg	Final:	<u>80.2</u>
	(Circle one)				Circle one	Downhole Temp.	_____ °F

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-4  
 Site Name: KNOTT Sample Depth, if applicable (ft bgs) 10  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59 sec.  
 Barometric Pressure (inches Hg): 26.35 Source of data: GEM 2000+

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	41.5		
Carbon Dioxide (CO <sub>2</sub> )	%	39.7		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	balance = 18.4		

Comments/Observations: Move 30' to west. Still no CH<sub>4</sub> @ 10'  
38%. More Drill to 12' bgs at this location. Sample am

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Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429,010

Monitoring Point: 56-5

Site Name: Knot

Sample Depth, if applicable (ft bgs) 12'

Date: 9-24-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-24-18

Tubing Length (ft): 14'

Tubing Purge Time (minute): 59 sec

Barometric Pressure (inches Hg): 26.37

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	43.7		
Carbon Dioxide (CO <sub>2</sub> )	%	40.2		
Oxygen (O <sub>2</sub> )	%	0.1		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 15.9		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-6  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 12'  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 14' x 9.7 x 2 / 275 ml/ml/min x 60 Tubing Purge Time (minute): 59 sec  
 Barometric Pressure (inches Hg): 26.38 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	48.9		
Carbon Dioxide (CO <sub>2</sub> )	%	41.0		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 10.3		

Comments/Observations: Strong odor

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Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-24-18  
Sample ID: KTSG-COMP-3

Sample Location: 56-7  
Reg. No.: 6367

Sample Depth: 12'  
Canister No. 4123

A Original Press: 27-5 = 22/3 = 7 B Est. Final Press =      in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)

∇ Vacuum (A-B+C) = 27-7 = 20 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure 5 in Hg

Canister Pressure		Sampling Time		Baro. Pressure		Temperature	
Initial:	<u>27</u> mm Hg	Start:	<u>13:49</u>	Initial:	<u>26.37</u> mm Hg	Initial:	<u>84.0</u>
Final:	<u>20</u> in Hg	Stop:	<u>14:04</u>	Final:	<u>26.36</u> in Hg	Final:	<u>82.0</u>
	(Circle one)				Circle one	Downhole Temp.	<u>    </u> °F

Sample Location: 56-8  
Reg. No.: 6367

Sample Depth: 12'  
Canister No. 4123

A Original Press: 20 B Est. Final Press =      in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 20-7 = 13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure      in Hg

Canister Pressure		Sampling Time		Baro. Pressure		Temperature	
Initial:	<u>20</u> mm Hg	Start:	<u>14:25</u>	Initial:	<u>26.36</u> mm Hg	Initial:	<u>79.8</u>
Final:	<u>13</u> in Hg	Stop:	<u>14:45</u>	Final:	<u>26.36</u> in Hg	Final:	<u>75.6</u>
	(Circle one)				Circle one	Downhole Temp.	<u>    </u> °F

Sample Location: 56-9  
Reg. No.: 6367

Sample Depth: 12'  
Canister No. 4123

A Original Press: 13 B Est. Final Press = 6 in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 13-7 = 6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure      in Hg

Canister Pressure		Sampling Time		Baro. Pressure		Temperature	
Initial:	<u>13</u> mm Hg	Start:	<u>14:52</u>	Initial:	<u>26.36</u> mm Hg	Initial:	<u>75.2</u>
Final:	<u>6</u> in Hg	Stop:	<u>15:16</u>	Final:	<u>    </u> in Hg	Final:	<u>70.9</u>
	(Circle one)				Circle one	Downhole Temp.	<u>    </u> °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-7  
 Site Name: KNOH Sample Depth, if applicable (ft bgs) 12'  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59 sec.  
 Barometric Pressure (inches Hg): 26.37 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	53.1		
Carbon Dioxide (CO <sub>2</sub> )	%	39.8		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm	—		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	—		
PID (NMVOCs) (if measured) <i>Balance</i>	ppm	7.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80829.010 Monitoring Point: SG-8  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 12'  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59sec  
 Barometric Pressure (inches Hg): 26.36 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	51.3		
Carbon Dioxide (CO <sub>2</sub> )	%	39.8		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	balance 8.9		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-9  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 12'  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59 sec  
 Barometric Pressure (inches Hg): 26.36 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	42.5		
Carbon Dioxide (CO <sub>2</sub> )	%	42.1		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance 15.3		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-24-18 / 9-25-18  
Sample ID: KTSG-comp-4

Sample Location: 56-10  
Reg. No.: 4608

Sample Depth: 12'  
Canister No. 4871

A Original Press: 27-5 = 22 B Est. Final Press = 13 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)

∇ Vacuum (A-B+C) = 27-5 = 22 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>27</u> mm Hg	Start: <u>14:20</u>	Initial: <u>26.34</u> mm Hg	Initial: <u>75.4</u>
Final: <u>20</u> in Hg	Stop: <u>16:34</u>	Final: <u>26.34</u> in Hg	Final: <u>77.2</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: 56-11  
Reg. No.: 4608

Sample Depth: 12'  
Canister No. 4871

A Original Press: 20 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 20-7 = 13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>20</u> mm Hg	Start: <u>8:06</u>	Initial: <u>26.42</u> mm Hg	Initial: <u>65.7</u>
Final: <u>13</u> in Hg	Stop: <u>8:16</u>	Final: <u>26.42</u> in Hg	Final: <u>66.2</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: 56-12  
Reg. No.: 4608

Sample Depth: 9'  
Canister No. 4871

A Original Press: 13 B Est. Final Press = 6 in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 13-7 = 6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>13</u> mm Hg	Start: <u>9:06</u>	Initial: <u>26.43</u> mm Hg	Initial: <u>78.6</u>
Final: <u>6</u> in Hg	Stop: <u>9:14</u>	Final: <u>26.43</u> in Hg	Final: <u>83.0</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: Collected 56-10 on 9/24/18. Collected 56-11  
+ 56-12 on 9-25-18.



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-10  
 Site Name: KnotH Sample Depth, if applicable (ft bgs) 12'  
 Date: 9-24-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-24-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59 sec  
 Barometric Pressure (inches Hg): 26.34 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	36.7		
Carbon Dioxide (CO <sub>2</sub> )	%	38.3		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance 24.6		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: Move 20' north, 26% Balance gas. Move 20' to the west. Still 23% balance gas. Check with GEM 5000. Same readings. Move 20' west. Try to get to 12' BGS.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-11

Site Name: Knott

Sample Depth, if applicable (ft bgs) 12

Date: 9-25-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-29-18

Tubing Length (ft): 14'

Tubing Purge Time (minute): GEM 59sec

Barometric Pressure (inches Hg): 26.42

Source of data: GEM

*Ambient = 39.3*

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	40.6		
Carbon Dioxide (CO <sub>2</sub> )	%	40.7		
Oxygen (O <sub>2</sub> )	%	0.3		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	balance = 18.3		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: First readings low - 20% CH<sub>4</sub> <sup>10' bgs</sup> maybe in garbage? Pull rods up to 6', CH<sub>4</sub> = 33% Bal = 33% . No sample here. 9-25-18 Moved location per Toby to closer to GW-51.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80499.010

Monitoring Point: SG-12

Site Name: Knott

Sample Depth, if applicable (ft bgs) 12' 9'

Date: 9-25-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-25-18

Tubing Length (ft): 14'

Tubing Purge Time (minute): 59 sec

Barometric Pressure (inches Hg): 26.43

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	39.5		
Carbon Dioxide (CO <sub>2</sub> )	%	39.8		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance 20.4		

Comments/Observations: First try 12' CH<sub>4</sub> ≈ 29% . pull up rods to 8' CH<sub>4</sub> = 26% . move hole 20' to east . Drill to 8' CH<sub>4</sub> = 23.6  
pull up rods to Move location to the NE per Toby . First attempt to 12' CH<sub>4</sub> = 24 ~ 25% . pull up rods to 8' to try sample there . Balance gas 20% . pull up again to 7' Balance 21% . CH<sub>4</sub> = 39% . Move 20' SE drill to 10' . Close . pull up to 9' . Close . Sample  
20.3% balance .

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-25-18  
Sample ID: KTSG-Comp-5

Sample Location: SG-13 Sample Depth: 10'  
Reg. No.: 5824 Canister No. 4136

A Original Press: 27-5=22 B Est. Final Press = 5 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
▽ Vacuum (A-B+C) = 27-7=20 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>27</u> mm Hg	Start: <u>9:38</u>	Initial: <u>26.42</u> mm Hg	Initial: <u>74.5</u>
Final: <u>20</u> in Hg	Stop: <u>9:40</u>	Final: <u>26.42</u> in Hg	Final: <u>78.2</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-14 Sample Depth: 10'  
Reg. No.: 5824 Canister No. 4136

A Original Press: 20 B Est. Final Press = 13 in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 20-7=13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>20</u> mm Hg	Start: <u>9:58</u>	Initial: <u>26.42</u> mm Hg	Initial: <u>73.9</u>
Final: <u>13</u> in Hg	Stop: <u>10:05</u>	Final: <u>26.42</u> in Hg	Final: <u>72.6</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-15 Sample Depth: 8'  
Reg. No.: 5824 Canister No. 4136

A Original Press: 13 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = \_\_\_\_\_ in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>13</u> mm Hg	Start: <u>10:57</u>	Initial: <u>26.42</u> mm Hg	Initial: <u>88.6</u>
Final: <u>6</u> in Hg	Stop: <u>11:08</u>	Final: <u>26.42</u> in Hg	Final: <u>83.6</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-13  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 10'  
 Date: 9-25-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 12' x 9.7 x 2 / 275 x 60 = Tubing Purge Time (minute): 57 sec  
 Barometric Pressure (inches Hg): \_\_\_\_\_ Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	43.5		
Carbon Dioxide (CO <sub>2</sub> )	%	39.3		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance: 17.7		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80929.010

Monitoring Point: S6-14

Site Name: KnotH

Sample Depth, if applicable (ft bgs) 10'

Date: 9-25-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-25-18

Tubing Length (ft): 14'

Tubing Purge Time (minute): 59 sec

Barometric Pressure (inches Hg): 26.42

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.2		
Carbon Dioxide (CO <sub>2</sub> )	%	40.7		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429, 010      Monitoring Point: SG-15  
 Site Name: KNOH      Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 14'      Tubing Purge Time (minute): 59sec  
 Barometric Pressure (inches Hg): 26.42      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	57.0		
Carbon Dioxide (CO <sub>2</sub> )	%	42.8		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: First readings sample at 10 feet, balance gas was 74%. Garbage odor. Pull up to 8'. Balance gas at 75%. Move 20' to east. At 8' readings were 19% CH<sub>4</sub> and 52% Balance. Move Pull up to 6' check readings, still 50% balance. Move 40' North. 3x drilled

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-25-18  
Sample ID: KTS6-COMP-6

Sample Location: 56-16 Sample Depth: 8'  
Reg. No.: 5883 Canister No. 5136

A Original Press: 25 B Est. Final Press = 5 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
▽ Vacuum (A-B+C) =  $25-5=20/3=6.67$  in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure 5 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>25</u> mm Hg	Start: <u>12:20</u>	Initial: <u>26.41</u> mm Hg	Initial: <u>82.7</u>
Final: <u>18</u> in Hg	Stop: <u>12:30</u>	Final: <u>26.41</u> in Hg	Final: <u>79.5</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: 56-17 Sample Depth: 12'  
Reg. No.: 5883 Canister No. 5136

A Original Press: 18-7=11 B Est. Final Press = 5 in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = \_\_\_\_\_ in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>18</u> mm Hg	Start: <u>13:26</u>	Initial: <u>26.40</u> mm Hg	Initial: <u>80.9</u>
Final: <u>11</u> in Hg	Stop: <u>13:34</u>	Final: <u>26.40</u> in Hg	Final: <u>77.6</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: 56-18 Sample Depth: 12'  
Reg. No.: 5883 Canister No. 5136

A Original Press: 11 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) =  $11-7=4$  in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 4 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>11</u> mm Hg	Start: <u>13:46</u>	Initial: <u>26.40</u> mm Hg	Initial: <u>78.6</u>
Final: <u>4</u> in Hg	Stop: <u>13:55</u>	Final: <u>26.40</u> in Hg	Final: <u>74.8</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-16  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59sec  
 Barometric Pressure (inches Hg): 26.41 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	53.8		
Carbon Dioxide (CO <sub>2</sub> )	%	39.5		
Oxygen (O <sub>2</sub> )	%	0.8		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance = 5.5		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: Moved boring location ~ 80' north of original location. Made these more evenly spread out away from truck cover area. Driller hit gray "sludge" at 10' BGS. Redrill 2' away to 8' BGS.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429, 010 Monitoring Point: SG-17  
 Site Name: Knott Sample Depth, if applicable (ft bgs) \_\_\_\_\_  
 Date: 9-25-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 14' Tubing Purge Time (minute): 59 sec.  
 Barometric Pressure (inches Hg): 26.42 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	52.5		
Carbon Dioxide (CO <sub>2</sub> )	%	35.8		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance = 11.4		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: Initial hole depth = 7' CH<sub>4</sub> = 37.9 Balance = 28%.  
Driller reports soil very tight. Move 10' NE. Drill to 10'. 44.5 + 20.3.  
Try pulling up 1'. Readings 43% + 29% balance. Move 10' NE Drill  
to 12'. DZQ onsite. Can sample if Balance + O<sub>2</sub> is < 25%.  
Make sure surface is sealed i.e. NO O<sub>2</sub>.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-18

Site Name: Knoll

Sample Depth, if applicable (ft bgs) 12'

Date: 9-25-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-25-18

Tubing Length (ft): 14'

Tubing Purge Time (minute): 59sec

Barometric Pressure (inches Hg): 26.40

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	58.1		
Carbon Dioxide (CO <sub>2</sub> )	%	38.0		
Oxygen (O <sub>2</sub> )	%	0.3		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 3.3		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knot

Date: 9-25-18  
Sample ID: KT SG-COMP-7

Sample Location: SG-19 Sample Depth: 12'  
Reg. No.: 4643 Canister No. 2847

A Original Press: 30-5 B Est. Final Press = 25-3 = 8 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
▽ Vacuum (A-B+C) = 30-8 = 22 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>30</u> mm Hg	Start: <u>14:40</u>	Initial: <u>26.40</u> mm Hg	Initial: <u>88.7</u>
Final: <u>22</u> in Hg	Stop: <u>14:51</u>	Final: <u>26.40</u> in Hg	Final: <u>85.6</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-20 Sample Depth: 8'  
Reg. No.: 4643 Canister No. 2847

A Original Press: 22-8 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 14-8 = 6 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure 6 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <del>22</del> <u>14</u> mm Hg	Start: <u>16:13</u>	Initial: <u>26.38</u> mm Hg	Initial: <u>87.9</u>
Final: <del>14</del> <u>6</u> in Hg	Stop: <u>16:24</u>	Final: <u>26.38</u> in Hg	Final: <u>88.2</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-21 Sample Depth: 8'  
Reg. No.: 4643 Canister No. 2847

A Original Press: \_\_\_\_\_ B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 14-8 = 6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 6 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <del>14</del> <u>22</u> mm Hg	Start: <u>15:46</u>	Initial: <u>26.39</u> mm Hg	Initial: <u>86.9</u>
Final: <del>8</del> <u>14</u> in Hg	Stop: <u>15:56</u>	Final: <u>26.39</u> in Hg	Final: <u>89.7</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-19

Site Name: Knott

Sample Depth, if applicable (ft bgs) 12'

Date: 9-25-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-25-18

Tubing Length (ft): 14'

Tubing Purge Time (minute): 59sec.

Barometric Pressure (inches Hg): 26.40

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	57.8		
Carbon Dioxide (CO <sub>2</sub> )	%	40.5		
Oxygen (O <sub>2</sub> )	%	1.5		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-20  
 Site Name: KnotH Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 10' Tubing Purge Time (minute): 42sec.  
 Barometric Pressure (inches Hg): 26.1 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	57.3		
Carbon Dioxide (CO <sub>2</sub> )	%	42.7		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.2		

Comments/Observations: Driller reports very hard drilling from 2' to 12' BGS. Rods stuck in hole at 12' 1500-1530. Move to SG-21.  
Landfill personnel say only 2' cover in this area. Pulled rods out with loader. Move back to spot & drill to 8'

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010      Monitoring Point: SG-21  
 Site Name: Knoth      Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 10'      Tubing Purge Time (minute): 42  
 Barometric Pressure (inches Hg): 26.39      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.5		
Carbon Dioxide (CO <sub>2</sub> )	%	39.4		
Oxygen (O <sub>2</sub> )	%	1.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: Driller reports easy drilling to 8' BGS. Driller switched to 1/4" diameter rods because other rods stuck in SG-20.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Summa Canister Sampling**

PBS Project No.: 80829 010  
Site Name: Knott

Date: 9-25-18  
Sample ID: KTS6<sup>c</sup>COMP-8

Sample Location: SG-22 Sample Depth: 8  
Reg. No.: 4623 Canister No. 5979

A Original Press: 28-5 B Est. Final Press = 23/3 in Hg C No. of Aliquots **3 (Note Final Press. ~5"Hg)**  
▽ Vacuum (A-B+C) = 28-7 = 21 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure 5 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>28</u> mm Hg	Start: <u>16:55</u>	Initial: <u>26.38</u> mm Hg	Initial: <u>89.1</u>
Final: <u>21</u> in Hg	Stop: <u>17:12</u>	Final: <u>26.38</u> in Hg	Final: <u>89.7</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-23 Sample Depth: 8  
Reg. No.: 4623 Canister No. 5979

A Original Press: 21 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots **3**  
▽ Vacuum (A-B+C) = 21-7 = 14 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>21</u> mm Hg	Start: <u>17:19</u>	Initial: <u>26.39</u> mm Hg	Initial: <u>82.9</u>
Final: <u>14</u> in Hg	Stop: <u>17:35</u>	Final: <u>26.39</u> in Hg	Final: <u><del>83.0</del> 82.7</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-24 Sample Depth: 8'  
Reg. No.: 4623 Canister No. 5979

A Original Press: 14 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots **3**  
▽ Vacuum (A-B+C) = 14-7 = 7 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 7 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>14</u> mm Hg	Start: <u>17:40</u>	Initial: <u>26.39</u> mm Hg	Initial: <u>84.2</u>
Final: <u>7</u> in Hg	Stop: <u>17:59</u>	Final: <u>26.39</u> in Hg	Final: <u>85.3</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-22  
 Site Name: Rnoth Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 10' Tubing Purge Time (minute): 42 sec  
 Barometric Pressure (inches Hg): 26.38 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	<del>57.95</del> K1 57.5		
Carbon Dioxide (CO <sub>2</sub> )	%	<del>40.5</del> 40.8		
Oxygen (O <sub>2</sub> )	%	0.1		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance <del>2</del> K1 0.7		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429,010 Monitoring Point: SG-23  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 10' Tubing Purge Time (minute): 42 sec  
 Barometric Pressure (inches Hg): 26.38 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	60.5		
Carbon Dioxide (CO <sub>2</sub> )	%	38.5		
Oxygen (O <sub>2</sub> )	%	0.8		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance 0.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429,010      Monitoring Point: SG-24  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-25-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-25-18  
 Tubing Length (ft): 10'      Tubing Purge Time (minute): 42sec  
 Barometric Pressure (inches Hg): 26.      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	58.8		
Carbon Dioxide (CO <sub>2</sub> )	%	40.6		
Oxygen (O <sub>2</sub> )	%	0.1		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm Balance = 1.1			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
 Site Name: Knott

Date: 9-26-18  
 Sample ID: ~~KTSG-COMP-9~~ KTSG-COMP-9

Sample Location: SG-25 Sample Depth: 8'  
 Reg. No.: 6399 Canister No. 3278

A Original Press: 26-5=21 B Est. Final Press = 7 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
 ∇ Vacuum (A-B+C) = 26-7=19 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>26</u> mm Hg	Start: <u>8:05</u>	Initial: <u>26.42</u> mm Hg	Initial: <u>67.3</u>
Final: <u>19</u> in Hg	Stop: <u>8:12</u>	Final: <u>26.42</u> in Hg	Final: <u>75.0</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-26 Sample Depth: 6'  
 Reg. No.: 6399 Canister No. 3278

A Original Press: 19 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
 ∇ Vacuum (A-B+C) = 19-7=12 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>19</u> mm Hg	Start: <u>8:44</u>	Initial: <u>26.42</u> mm Hg	Initial: <u>62.5</u>
Final: <u>12</u> in Hg	Stop: <u>8:52</u>	Final: <u>26.42</u> in Hg	Final: <u>62.5</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

measure in "in" by accident

Sample Location: SG-27 Sample Depth: 6'  
 Reg. No.: 6399 Canister No. 3278

A Original Press: 12 B Est. Final Press = 7 in Hg C No. of Aliquots 3  
 ∇ Vacuum (A-B+C) = 12-7=5 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>12</u> mm Hg	Start: <u>9:55</u>	Initial: <u>26.43</u> mm Hg	Initial: <u>92.8</u>
Final: <u>5</u> in Hg	Stop: <u>10:05</u>	Final: <u>26.43</u> in Hg	Final: <u>97.7</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: 56-25

Site Name: Knott

Sample Depth, if applicable (ft bgs) 8'

Date: 9-26-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-26-18

Tubing Length (ft): 10'

Tubing Purge Time (minute): 42 sec

Barometric Pressure (inches Hg): 26.42

Source of data: GEM

*Ambient temp = 37*

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	58.2		
Carbon Dioxide (CO <sub>2</sub> )	%	41.5		
Oxygen (O <sub>2</sub> )	%	0.1		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm <i>Balance</i>	0.1		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: 56-26

Site Name: Knott

Sample Depth, if applicable (ft bgs) ~~8'~~ 6'

Date: 9-26-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-26-18

Tubing Length (ft): ~~10'~~ 10'

Tubing Purge Time (minute): ~~4~~ sec 42sec

Barometric Pressure (inches Hg): 26.42

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	52.3		
Carbon Dioxide (CO <sub>2</sub> )	%	37.9		
Oxygen (O <sub>2</sub> )	%	1.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance 8.0		

Comments/Observations: During initial purge CH<sub>4</sub> went ↓↑ and balance gas also. Then at sample purge CH<sub>4</sub> ↑ 36% Balance ↓ 33%. Pull up 2', readings still ↑↓ but sample-able.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-27  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9' Tubing Purge Time (minute): 38 sec  
 Barometric Pressure (inches Hg): 26.43 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.7		
Carbon Dioxide (CO <sub>2</sub> )	%	40.5		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: Readings at 6' 5% CH<sub>4</sub> 70% Balance.  
Drill to 8', Matt says wells in the area have 40%-9%  
CH<sub>4</sub>. May be a "dead zone". Readings at 8' CH<sub>4</sub> = 7% Balance =  
69%. Call to Toby, VM. Move 40' to N. Readings at 8' CH<sub>4</sub> = 22%  
Pal = 48% Pull up to 6', call to Toby. Need to move towards  
soil pile to get CH<sub>4</sub>. Move 30' North. Readings at 6' 76% CH<sub>4</sub> 32% Balance.  
Move 20' NE.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-26-18  
Sample ID: KTSG-COMP-10

Sample Location: 56-B 8  
Reg. No.: 5823

Sample Depth: 6'  
Canister No. 5628

A Original Press: 27 B Est. Final Press =      in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)

∇ Vacuum (A-B+C) = 27-5=22 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure      in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>27</u> mm Hg	Start: <u>1015</u>	Initial: <u>26.43</u> mm Hg	Initial: <u>81.7</u>
Final: <u>20</u> in Hg	Stop: <u>1024</u>	Final: <u>26.43</u> in Hg	Final: <u>80.9</u>
(Circle one)		Circle one	Downhole Temp. <u>    </u> °F

Sample Location: 56-29  
Reg. No.: 5823

Sample Depth: ~~29~~ 6'  
Canister No. 5628

A Original Press: 20 B Est. Final Press =      in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 20-7=13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure      in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>20</u> mm Hg	Start: <u>1028</u>	Initial: <u>26.43</u> mm Hg	Initial: <u>87.8</u>
Final: <u>13</u> in Hg	Stop: <u>1037</u>	Final: <u>26.43</u> in Hg	Final: <u>87.3</u>
(Circle one)		Circle one	Downhole Temp. <u>    </u> °F

Sample Location: 56-30  
Reg. No.: 5823

Sample Depth: 6'  
Canister No. 5628

A Original Press: 13 B Est. Final Press =      in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 13-7=6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 6 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>13</u> mm Hg	Start: <u>1055</u>	Initial: <u>26.44</u> mm Hg	Initial: <u>81.6</u>
Final: <u>6</u> in Hg	Stop: <u>1104</u>	Final: <u>26.44</u> in Hg	Final: <u>83.0</u>
(Circle one)		Circle one	Downhole Temp. <u>    </u> °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010      Monitoring Point: 56-28  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9'      Tubing Purge Time (minute): 38sec  
 Barometric Pressure (inches Hg): \_\_\_\_\_      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.9		
Carbon Dioxide (CO <sub>2</sub> )	%	40.2		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-29

Site Name: Knott

Sample Depth, if applicable (ft bgs) 6'

Date: 9-26-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-26-18

Tubing Length (ft): 9'

Tubing Purge Time (minute): 38 sec

Barometric Pressure (inches Hg): 29.26.43

Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.8		
Carbon Dioxide (CO <sub>2</sub> )	%	38.0		
Oxygen (O <sub>2</sub> )	%	0.1		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 2.2		

Comments/Observations: Moved this location 70' to NE from  
flagged location per Matt & methane readings in the area  
to the SW where flag was. Per Toby to sample at <25%  
balance gas.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429,010 Monitoring Point: SG-30  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9' Tubing Purge Time (minute): 38sec  
 Barometric Pressure (inches Hg): 26.44 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.9		
Carbon Dioxide (CO <sub>2</sub> )	%	40.0		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 0.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

37  
38  
75



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-26-18  
Sample ID: RTSG-COMP-11

Sample Location: 5G-31  
Reg. No.: 5592

Sample Depth: 6'  
Canister No. 5903

A Original Press: 27 - B Est. Final Press = 22 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)

∇ Vacuum (A-B+C) = 27-7=20 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

**Canister Pressure**

**Sampling Time**

**Baro. Pressure**

**Temperature**

Initial: 27 mm Hg  
Final: 20 in Hg  
(Circle one)

Start: 1115  
Stop: 1120

Initial: 26.44 mm Hg  
Final: 26.44 in Hg  
Circle one

Initial: 86.1  
Final: 85.9  
Downhole Temp. \_\_\_\_\_ °F

Sample Location: 5G-32  
Reg. No.: 5592

Sample Depth: 5G-32  
Canister No. 5903

A Original Press: 13 B Est. Final Press = 13 in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 20-7=13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure 13 in Hg

**Canister Pressure**

**Sampling Time**

**Baro. Pressure**

**Temperature**

Initial: 26 mm Hg  
Final: 13 in Hg  
(Circle one)

Start: 1130  
Stop: 1137

Initial: 26.44 mm Hg  
Final: 26.44 in Hg  
Circle one

Initial: 84.3  
Final: 82.7  
Downhole Temp. \_\_\_\_\_ °F

Sample Location: 5G-33  
Reg. No.: 5592

Sample Depth: 6'  
Canister No. 5903

A Original Press: 13 B Est. Final Press = 6 in Hg C No. of Aliquots 3

∇ Vacuum (A-B+C) = 13-7=6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 6 in Hg

**Canister Pressure**

**Sampling Time**

**Baro. Pressure**

**Temperature**

Initial: 13 mm Hg  
Final: 6 in Hg  
(Circle one)

Start: 1206  
Stop: 1215

Initial: 26.43 mm Hg  
Final: 26.43 in Hg  
Circle one

Initial: 88.2  
Final: 86.4  
Downhole Temp. \_\_\_\_\_ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-31  
 Site Name: KnotH Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-28-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9' Tubing Purge Time (minute): 38 sec  
 Barometric Pressure (inches Hg): 26.44 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.2		
Carbon Dioxide (CO <sub>2</sub> )	%	40.5		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance = 0.2		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-32  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9' Tubing Purge Time (minute): 38sec  
 Barometric Pressure (inches Hg): 26.44 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	56.1		
Carbon Dioxide (CO <sub>2</sub> )	%	43.8		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance 0.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010      Monitoring Point: 56-33  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9'      Tubing Purge Time (minute): 38 sec.  
 Barometric Pressure (inches Hg): 26.43      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	56.6		
Carbon Dioxide (CO <sub>2</sub> )	%	43.2		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance : 0.6		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-26-18  
Sample ID: KTSG-COMP-12

Sample Location: 56-34  
Reg. No.: 6523

Sample Depth: 6'  
Canister No. 3209

A Original Press: 25 B Est. Final Press =      in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
▽ Vacuum (A-B÷C) = 25-5=20/3=7 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure 18 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>25</u> mm Hg	Start: <u>1225</u>	Initial: <u>26.43</u> mm Hg	Initial: <u>86.7</u>
Final: <u>18</u> in Hg	Stop: <u>1234</u>	Final: <u>26.43</u> in Hg	Final: <u>89.5</u>
(Circle one)		Circle one	Downhole Temp. <u>    </u> °F

Sample Location: 56-35  
Reg. No.: 6523

Sample Depth: 8'  
Canister No. 3209

A Original Press: 18 B Est. Final Press =      in Hg C No. of Aliquots 3  
▽ Vacuum (A-B÷C) = 18-7=11 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure      in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>18</u> mm Hg	Start: <u>1328</u>	Initial: <u>26.41</u> mm Hg	Initial: <u>97.6</u>
Final: <u>11</u> in Hg	Stop: <u>1336</u>	Final: <u>26.41</u> in Hg	Final: <u>96.6</u>
(Circle one)		Circle one	Downhole Temp. <u>    </u> °F

Sample Location: 56-36  
Reg. No.: 6523

Sample Depth: 6'  
Canister No. 3209

A Original Press: 11 B Est. Final Press = 4 in Hg C No. of Aliquots 3  
▽ Vacuum (A-B÷C) = 11-7=4 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 4 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>11</u> mm Hg	Start: <u>1355</u>	Initial: <u>26.39</u> mm Hg	Initial: <u>92.7</u>
Final: <u>4</u> in Hg	Stop: <u>1407</u>	Final: <u>26.39</u> in Hg	Final: <u>94.2</u>
(Circle one)		Circle one	Downhole Temp. <u>    </u> °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Field Form – Landfill Gas Monitoring**

PBS Project No.: ~~803~~ 80429.010 Monitoring Point: SG-34  
 Site Name: Kinnett Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9' Tubing Purge Time (minute): 38 sec  
 Barometric Pressure (inches Hg): 26.43 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	55.9		
Carbon Dioxide (CO <sub>2</sub> )	%	44.0		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm	<del>    </del>		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance: 0.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-35  
 Site Name: KNOTT Sample Depth, if applicable (ft bgs) 8'  
 Date: 9-26-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 10' Tubing Purge Time (minute): 42 sec  
 Barometric Pressure (inches Hg): 26.43 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	51.3		
Carbon Dioxide (CO <sub>2</sub> )	%	45.0		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance = 3.4		

Comments/Observations: At 6' BGS readings are: CH<sub>4</sub>: 33% Balance = 30%  
Drill to 8' move 2' east and Driller hit hard material at 4' BGS  
in first hole. Drill to 6' CH<sub>4</sub> ~ 22% Balance = 42%. Move <sup>10' East</sup> and  
drill to 8'.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010      Monitoring Point: SG-36  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9'      Tubing Purge Time (minute): 42 sec.  
 Barometric Pressure (inches Hg): 26.39      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	59.7		
Carbon Dioxide (CO <sub>2</sub> )	%	40.3		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance 0.1		

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-26-18  
Sample ID: KTSG-COMP-13

Sample Location: SG-37 Sample Depth: 6'  
Reg. No.: 4705 Canister No. 2725

A Original Press: 29-5 B Est. Final Press = 24/5=8 in Hg C No. of Aliquots 3 (Note Final Press. ~5"Hg)  
▽ Vacuum (A-B+C) = 29-8=21 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure 21 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>29</u> mm Hg	Start: <u>14:24</u>	Initial: <u>26.38</u> mm Hg	Initial: <u>86.0</u>
Final: <u>21</u> in Hg	Stop: <u>14:34</u>	Final: <u>26.38</u> in Hg	Final: <u>80.6</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-38 Sample Depth: 6'  
Reg. No.: 4705 Canister No. 2725

A Original Press: 21 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 21-8=13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure 13 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>21</u> mm Hg	Start: <u>1441</u>	Initial: <u>26.38</u> mm Hg	Initial: <u>89.4</u>
Final: <u>13</u> in Hg	Stop: <u>1450</u>	Final: <u>26.38</u> in Hg	Final: <u>88.0</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-39 Sample Depth: 6'  
Reg. No.: 4705 Canister No. 2725

A Original Press: 13 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 13-8=5 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 5 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>13</u> mm Hg	Start: <u>1500</u>	Initial: <u>26.38</u> mm Hg	Initial: <u>83.4</u>
Final: <u>5</u> in Hg	Stop: <u>1509</u>	Final: <u>26.38</u> in Hg	Final: <u>81.4</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80 429,010      Monitoring Point: SG-37  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9'      Tubing Purge Time (minute): 38 sec  
 Barometric Pressure (inches Hg): 26.38      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	56.9		
Carbon Dioxide (CO <sub>2</sub> )	%	43.0		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm	Balance = 0.1		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-38  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9' Tubing Purge Time (minute): 38sec  
 Barometric Pressure (inches Hg): 26.38 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	54.2		
Carbon Dioxide (CO <sub>2</sub> )	%	45.4		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm Balance	0.2		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010      Monitoring Point: SG-39  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-26-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-26-18  
 Tubing Length (ft): 9'      Tubing Purge Time (minute): 38sec  
 Barometric Pressure (inches Hg): 26.38      Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	57.6		
Carbon Dioxide (CO <sub>2</sub> )	%	42.4		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance = 0.1		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-27-18  
Sample ID: KTSG-COMP-14

Sample Location: SG-40  
Reg. No.: 6375

Sample Depth: 6'  
Canister No. 5603

A Original Press: \_\_\_\_\_ B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots **3** (Note Final Press. ~5" Hg)

▽ Vacuum (A-B+C) = 27.5 - 22 / 3 = 7 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

**Canister Pressure**

Initial: 27 mm Hg  
Final: 20 in Hg  
(Circle one)

**Sampling Time**

Start: 7:36  
Stop: 7:44

**Baro. Pressure**

Initial: 26.34 mm Hg  
Final: 26.34 in Hg  
Circle one

**Temperature**

Initial: 85.8  
Final: 87.8  
Downhole Temp. \_\_\_\_\_ °F  
Ambient = 39°

Sample Location: SG-41  
Reg. No.: 6375

Sample Depth: 6'  
Canister No. 5603

A Original Press: 20 B Est. Final Press = 13 in Hg C No. of Aliquots **3**

▽ Vacuum (A-B+C) = 20 - 7 = 13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure 13 in Hg

**Canister Pressure**

Initial: 20 mm Hg  
Final: 13 in Hg  
(Circle one)

**Sampling Time**

Start: 8:12  
Stop: 8:19

**Baro. Pressure**

Initial: 26.35 mm Hg  
Final: 26.35 in Hg  
Circle one

**Temperature**

Initial: 90.1  
Final: 91.0  
Downhole Temp. \_\_\_\_\_ °F

Sample Location: SG-42  
Reg. No.: 6375

Sample Depth: 6'  
Canister No. 5603

A Original Press: 13 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots **3**

▽ Vacuum (A-B+C) = 13 - 7 = 6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 6 in Hg

**Canister Pressure**

Initial: 13 mm Hg  
Final: 6 in Hg  
(Circle one)

**Sampling Time**

Start: 9:03  
Stop: 9:12

**Baro. Pressure**

Initial: 26.40 mm Hg  
Final: 26.40 in Hg  
Circle one

**Temperature**

Initial: 92.6  
Final: 93.1  
Downhole Temp. \_\_\_\_\_ °F

**Comments/Observations:** Recalibrate GEM after collecting SG-41.  
CH<sub>4</sub> and Balance gas readings both >>> after three times.  
Same readings. Check with GEM 5000. CH<sub>4</sub> = 57.3 and  
Balance gas = 0.0.

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-40  
 Site Name: Kroth Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-27-18  
 Tubing Length (ft): 8' Tubing Purge Time (minute): 34  
 Barometric Pressure (inches Hg): 26.34 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	54.6		
Carbon Dioxide (CO <sub>2</sub> )	%	45.0		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Balance = 0.2

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-41  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-27-18  
 Tubing Length (ft): 8' Tubing Purge Time (minute): 34 sec  
 Barometric Pressure (inches Hg): 26.35 Source of data: GEM

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	777	760%	0.57
Carbon Dioxide (CO <sub>2</sub> )	%	<del>44.8</del> 45.1	45.1	
Oxygen (O <sub>2</sub> )	%	0.0	0.0	
Carbon Monoxide (CO)	ppm	Balance = 777	0.0	
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: GEM reading 777 for CH<sub>4</sub> and Balance gas 777. CH<sub>4</sub> maybe out of calibration. Matt will re calibrate. Check again. Same readings. Check with GEM 5000. GEM 5000 readings are 57.3 CH<sub>4</sub> 42.6 CO<sub>2</sub> 0.1 O<sub>2</sub> and 0.0 Balance gas.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: 56-42  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-27-18 / 8:53  
 Tubing Length (ft): 8' Tubing Purge Time (minute): 34sec  
 Barometric Pressure (inches Hg): 26.35 Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	58.8		
Carbon Dioxide (CO <sub>2</sub> )	%	44.1		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm	Balance = >>> or 0.0		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: Used GEM 5000 for these readings

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)

**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-27-18  
Sample ID: KTSG-COMP-15

Sample Location: SG-43 Sample Depth: 6'  
Reg. No.: 4621 Canister No. 4558  
A Original Press: 29-5 B Est. Final Press = 24/3-8 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
▽ Vacuum (A-B+C) = 29-8 = 21 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>29</u> mm Hg	Start: <u>9:31</u>	Initial: <u>26.39</u> mm Hg	Initial: <u>92.2</u>
Final: <u>21</u> in Hg	Stop: <u>9:43</u>	Final: <u>26.39</u> in Hg	Final: <u>92.3</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-44 Sample Depth: 6'  
Reg. No.: 4621 Canister No. 4558  
A Original Press: 21 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 21-8 = in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>21</u> mm Hg	Start: <u>9:59</u>	Initial: <u>26.39</u> mm Hg	Initial: <u>95.6</u>
Final: <u>13</u> in Hg	Stop: <u>10:08</u>	Final: <u>26.39</u> in Hg	Final: <u>97.7</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: SG-45 Sample Depth: 6'  
Reg. No.: 4621 Canister No. 4558  
A Original Press: 13 B Est. Final Press = 5 in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 13-8 = 5 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 5 in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>13</u> mm Hg	Start: <u>10:24</u>	Initial: <u>26.38</u> mm Hg	Initial: <u>96.8</u>
Final: <u>5</u> in Hg	Stop: <u>10:36</u>	Final: <u>26.38</u> in Hg	Final: <u>92.5</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.00      Monitoring Point: SG-43  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18      Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-27-18  
 Tubing Length (ft): 8'      Tubing Purge Time (minute): 34sec.  
 Barometric Pressure (inches Hg): 26.39      Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	54.4		
Carbon Dioxide (CO <sub>2</sub> )	%	45.4		
Oxygen (O <sub>2</sub> )	%	0.3		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance = 0.0		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-44

Site Name: Knott

Sample Depth, if applicable (ft bgs) 6'

Date: 9-27-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-27-18

Tubing Length (ft): 8'

Tubing Purge Time (minute): 34sec.

Barometric Pressure (inches Hg): 26.38

Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	54.8		
Carbon Dioxide (CO <sub>2</sub> )	%	45.0		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance: 0.0		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-45

Site Name: Knott

Sample Depth, if applicable (ft bgs) 6'

Date: 9-27-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-27-18

Tubing Length (ft): 8'

Tubing Purge Time (minute): 34sec

Barometric Pressure (inches Hg): 26.38

Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	58.5		
Carbon Dioxide (CO <sub>2</sub> )	%	41.5		
Oxygen (O <sub>2</sub> )	%	0.4		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance: 0.0		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

PBS Project No.: 80429.010  
Site Name: Knott

Date: 9-27-18  
Sample ID: KTSG-comp-16

Sample Location: SG-46  
Reg. No.: 5889

Sample Depth: 6'  
Canister No. 4327

A Original Press: 27-5=22 B Est. Final Press = 7 in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)

▽ Vacuum (A-B+C) = 27 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>27</u> mm Hg	Start: <u>1054</u>	Initial: <u>26.33</u> mm Hg	Initial: <del>92.8</del> <u>95.3</u>
Final: <u>20</u> in Hg (Circle one)	Stop: <u>1100</u>	Final: <u>26.33</u> in Hg Circle one	Final: <u>101.6</u> Downhole Temp. _____ °F

Sample Location: SG-47  
Reg. No.: 5889

Sample Depth: 6'  
Canister No. 4327

A Original Press: 20 B Est. Final Press = 13 in Hg C No. of Aliquots 3

▽ Vacuum (A-B+C) = 20-7=13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot inital Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>20</u> mm Hg	Start: <u>1115</u>	Initial: <u>26.33</u> mm Hg	Initial: <u>93.2</u>
Final: <u>13</u> in Hg (Circle one)	Stop: <u>1121</u>	Final: <u>26.33</u> in Hg Circle one	Final: <u>93.6</u> Downhole Temp. _____ °F

Sample Location: SG-48  
Reg. No.: 5889

Sample Depth: 6'  
Canister No. 4327

A Original Press: 13 B Est. Final Press = 6 in Hg C No. of Aliquots 3

▽ Vacuum (A-B+C) = 13-7=6 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot inital Pressure \_\_\_\_\_ in Hg

Canister Pressure	Sampling Time	Baro. Pressure	Temperature
Initial: <u>13</u> mm Hg	Start: <u>1144</u>	Initial: <u>26.33</u> mm Hg	Initial: <u>90.2</u>
Final: <u>6</u> in Hg (Circle one)	Stop: <u>1150</u>	Final: <u>26.33</u> in Hg Circle one	Final: <u>89.5</u> Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-46

Site Name: Knott

Sample Depth, if applicable (ft bgs) 6'

Date: 9-27-18

Landfill Gas Meter Used: Gem <sup>5000</sup> 2000 Plus

Meter Calibration Time: 9-27-18

Tubing Length (ft): 8'

Tubing Purge Time (minute): 34Sec

Barometric Pressure (inches Hg): 26.33

Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	55.6		
Carbon Dioxide (CO <sub>2</sub> )	%	44.1		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm	Balance: 0.0		

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)





**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010      Monitoring Point: 56-47  
 Site Name: Knott      Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18      Landfill Gas Meter Used: Gem 5000 Plus  
 Meter Calibration Time: 9-27-18  
 Tubing Length (ft): 8'      Tubing Purge Time (minute): 34sec  
 Barometric Pressure (inches Hg): 26.33      Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	54.9		
Carbon Dioxide (CO <sub>2</sub> )	%	45.1		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm	Balance = 0.0		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010 Monitoring Point: SG-48  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-27-18  
 Tubing Length (ft): 8' Tubing Purge Time (minute): 34sec  
 Barometric Pressure (inches Hg): 26.33 Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	55.6		
Carbon Dioxide (CO <sub>2</sub> )	%	44.3		
Oxygen (O <sub>2</sub> )	%	0.3		
Carbon Monoxide (CO)	ppm	Balance: 0.0		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: Pump failure on GEM 5000. Tried several times. Will pull rods + redrill to 6' again. Tip was clogged, unclogged it & then GEM worked.

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Summa Canister Sampling**

27KT

PBS Project No.: 808/09.010  
Site Name: Knott

Date: 9-26-18  
Sample ID: KTS6-COMP-17

Sample Location: S6-49 Sample Depth: 6'  
Reg. No.: 6341 Canister No. 3568

A Original Press: \_\_\_\_\_ B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3 (Note Final Press. ~5" Hg)  
▽ Vacuum (A-B+C) = 29-5 = 24/3 = 8 in Hg per aliquot D. Calc. 1<sup>st</sup> aliquot Final Pressure \_\_\_\_\_ in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>29</u> mm Hg	Start: <u>1224</u>	Initial: <u>26.30</u> mm Hg	Initial: <u>94.3</u>
Final: <u>21</u> in Hg	Stop: <u>1232</u>	Final: <u>26.30</u> in Hg	Final: <u>94.5</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: S6-50 Sample Depth: 6'  
Reg. No.: 6341 Canister No. 3568

A Original Press: 21 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 21-8 = 13 in Hg per aliquot D. Calc. 2<sup>nd</sup> aliquot initial Pressure \_\_\_\_\_ in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>21</u> mm Hg	Start: <u>1238</u>	Initial: <u>26.30</u> mm Hg	Initial: <u>99.0</u>
Final: <u>13</u> in Hg	Stop: <u>1248</u>	Final: <u>26.3</u> in Hg	Final: <u>90.7</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Sample Location: S6-51 Sample Depth: 6'  
Reg. No.: 6341 Canister No. 3568

A Original Press: 13 B Est. Final Press = \_\_\_\_\_ in Hg C No. of Aliquots 3  
▽ Vacuum (A-B+C) = 13-8 = 5 in Hg per aliquot D. Calc. 3<sup>rd</sup> aliquot initial Pressure 5 in Hg

<b>Canister Pressure</b>	<b>Sampling Time</b>	<b>Baro. Pressure</b>	<b>Temperature</b>
Initial: <u>13</u> mm Hg	Start: <u>1253</u>	Initial: <u>26.28</u> mm Hg	Initial: <u>94.5</u>
Final: <u>5</u> in Hg	Stop: <u>1306</u>	Final: <u>26.28</u> in Hg	Final: <u>94.4</u>
(Circle one)		Circle one	Downhole Temp. _____ °F

Comments/Observations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: 56-49

Site Name: KNOTH

Sample Depth, if applicable (ft bgs) 6'

Date: 9.27-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9.27-18

Tubing Length (ft): 8'

Tubing Purge Time (minute): 34 sec

Barometric Pressure (inches Hg): 26.30

Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	55.0		
Carbon Dioxide (CO <sub>2</sub> )	%	44.9		
Oxygen (O <sub>2</sub> )	%	0.2		
Carbon Monoxide (CO)	ppm Balance	0.0		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.010

Monitoring Point: SG-50

Site Name: Knott

Sample Depth, if applicable (ft bgs) 6'

Date: 9-27-18

Landfill Gas Meter Used: Gem 2000 Plus

Meter Calibration Time: 9-27-18

Tubing Length (ft): 8'

Tubing Purge Time (minute): 34 sec

Barometric Pressure (inches Hg): 26.30

Source of data: GEM 5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	44.9		
Carbon Dioxide (CO <sub>2</sub> )	%	40.9		
Oxygen (O <sub>2</sub> )	%	0.0		
Carbon Monoxide (CO)	ppm			
Hydrogen Sulfide (H <sub>2</sub> S)	ppm	Balance = 11.6		
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**Field Form – Landfill Gas Monitoring**

PBS Project No.: 80429.00 Monitoring Point: SG-51  
 Site Name: Knott Sample Depth, if applicable (ft bgs) 6'  
 Date: 9-27-18 Landfill Gas Meter Used: Gem 2000 Plus  
 Meter Calibration Time: 9-27-18  
 Tubing Length (ft): 8' Tubing Purge Time (minute): 34sec  
 Barometric Pressure (inches Hg): 26.30 Source of data: GEM5000

Gas Monitored	Units	Stabilized Reading	Peak Reading (if different from stabilized)	Pressure (inches Hg)
Methane (CH <sub>4</sub> )	%	55.6		
Carbon Dioxide (CO <sub>2</sub> )	%	44.4		
Oxygen (O <sub>2</sub> )	%	0.1		
Carbon Monoxide (CO)	ppm	Balance = 0.0		
Hydrogen Sulfide (H <sub>2</sub> S)	ppm			
PID (NMVOCs) (if measured)	ppm			

Comments/Observations: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Size of tubing (inches)	Air volume in ml per one unit foot
1/4	9.7
3/8	21.7
1/2	38.6
3/4	86.9
1	154.4

(Gem 2000 Plus flow rate 250-300 ml/min)



**APPENDIX B (see Disc)**

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**Data Quality Review:** Knott Landfill, Non-Methane Organic Compounds, 2018

PBS collected landfill gas (LFG) samples in September 2018 during environmental sampling at Knott Landfill in Deschutes County, Oregon. This data quality review assesses the quality of the laboratory data from this sampling event.

A total of 17 LFG samples were collected on September 24, 25, 26, and 27, 2018. The samples were analyzed for the following parameters:

Parameter	Method
Non-methane organic compounds (NMOC)	EPA 25C
Carbon dioxide, methane, nitrogen, oxygen	EPA 3C

Samples were collected and analyzed in accordance with the *Title V Tier II Non-Methane Organic Compounds Sampling and Analysis Work Plan, Knott Landfill, 61055 SE 27th Street, Bend, Oregon* (August 2018). The samples were submitted to TestAmerica Laboratories (TA) of Burlington, Vermont, for analysis. The results are summarized in the main body of the TA report, which is attached. Table 1 correlates the PBS sample IDs and laboratory sample IDs.

**Table 1. Sample Summary**

PBS Sample ID	Sample Date	TA Laboratory ID
KTSG-COMP-1	09/24/18	200-45482-1
KTSG-COMP-2	09/24/18	200-45482-2
KTSG-COMP-3	09/24/18	200-45482-3
KTSG-COMP-4	09/25/18	200-45482-4
KTSG-COMP-5	09/25/18	200-45482-5
KTSG-COMP-6	09/25/18	200-45482-6
KTSG-COMP-7	09/25/18	200-45482-7
KTSG-COMP-8	09/25/18	200-45482-8
KTSG-COMP-9	09/26/18	200-45504-1
KTSG-COMP-10	09/26/18	200-45504-2
KTSG-COMP-11	09/26/18	200-45504-3
KTSG-COMP-12	09/26/18	200-45504-4
KTSG-COMP-13	09/26/18	200-45504-5
KTSG-COMP-14	09/27/18	200-45504-6
KTSG-COMP-15	09/27/18	200-45504-7
KTSG-COMP-16	09/27/18	200-45504-8
KTSG-COMP-17	09/27/18	200-45504-9

A quality assurance/quality control (QA/QC) review was conducted on the results. This QA/QC review includes evaluation of representativeness, accuracy, field and analytical precision, comparability, and completeness, each of which are described as follows:

- Representativeness is the degree to which sample data accurately and precisely describe the characteristics of a population of samples, parameter variations at a sampling point, or environmental

conditions. Representativeness is assessed by examining chain-of-custody documentation and verifying that sample analyses were performed within allowable holding times.

- Accuracy is evaluated using the analytical results for blanks, laboratory control samples (LCS), and matrix spike/matrix spike duplicates (MS/MSD).
- Precision is evaluated by comparing results of primary, field duplicate, and laboratory duplicate analyses.
- Comparability is a qualitative characteristic of the data, expressing the degree of confidence with which one data set can be compared with another.
- Completeness is evaluated by calculating the percentage of acceptable data.

Data were reviewed in accordance with the procedures specified in the Environmental Protection Agency (EPA) *Contract Laboratory Program National Functional Guidelines for Organic Data Review* (EPA, October 1999) and *Inorganic Data Review* (EPA, October 2004) as applicable.

## REPRESENTATIVENESS

### Chain-of-Custody, Holding Times, and Sample Preservation

The chain-of-custody (COC) forms indicate that samples were maintained under proper custody. The forms were signed upon release from the field staff and receipt at the laboratory. Samples were received by the laboratory with seals intact and with ample residual vacuum. All samples were analyzed within the associated technical holding times.

### Method Adherence

All method requirements were adhered to including instrument tuning and calibration, QC sample analysis and analysis time limits.

### Instrument Calibrations

All initial and continuing instrument calibrations met method requirements, except for the initial closing continuing calibration verification (CCV) standard in analytical batch 200-135389/5. This CCV exhibited low responses, which prompted TA to analyze a second CCV and it was within the acceptance criteria. The results for both CCVs are provided in the laboratory report. TA noted that a closing CCV is used internally to evaluate instrument stability and not required by the method. The initial CCV issue does not affect the quality of the data and they are considered valid.

### Manual Integrations

A total of 49 manual integrations were performed on calibrations, QC samples, and samples. These manual integrations were accounted for in the data package and were reviewed as part of this data quality review. Issues associated with the manual integrations were not identified, except for carbon dioxide in samples MB 200-135231/3 and MB 200-135204/3 that was labeled as invalid compound ID. For the associated method, the combined nitrogen/oxygen peak falls within the carbon dioxide search window. After determining that no carbon dioxide is present the combined nitrogen/oxygen peak needs to be deleted. The data are considered valid.

## ACCURACY

### Blanks

The laboratory analyzed one method blank for each analytical batch, per method requirements. Target compounds were not detected in the method blanks.



### **Laboratory Control Samples**

Laboratory control sample (LCS) analyses were used to assess laboratory accuracy for the target compounds of concern. At least one LCS was analyzed per analytical batch, meeting method frequency requirements. All LCS data were within laboratory-specific control limits.

### **PRECISION**

#### **Laboratory Duplicates**

Laboratory duplicate analyses were not conducted for this project. This does not affect data precision, and the data are considered valid.

#### **Field Duplicate**

Field duplicates were not collected for this project. This does not affect data precision, and the data are considered valid.

### **COMPARABILITY**

The results from this sampling event are comparable to the previous events because of standard techniques used to collect representative samples, consistent application of analytical method protocols, and analytical reporting results with appropriate units and reporting limits.

### **REPORTING LIMITS**

The method reporting limits (MRLs) for groundwater sample analysis did not deviate from standard laboratory reporting limits. The MRL is raised proportional to the dilution. When this occurred, it had no adverse effect on data quality.

### **LABORATORY QUALIFIERS**

Laboratory qualifiers were not assigned to the data investigated in this data quality review.

### **COMPLETENESS**

The completeness of the TA report for the 2018 Knott Landfill non-methane organic compounds sampling event is 100 percent. Upon consideration of the information presented in this report, the data are considered usable, which is based on EPA guidance documents referenced in the introduction.

### **QUALIFIED DATA**

Data qualifiers assigned by the laboratory are shown on the laboratory reports. Additional qualified analytical results were not identified by PBS during this data quality review.

Attachments: TestAmerica Analytical Report, TestAmerica Job ID: 200-45482-1  
TestAmerica Analytical Report, TestAmerica Job ID: 200-45504-1

## ANALYTICAL REPORT

Job Number: 200-45482-1  
SDG Number: 200-45482-1  
Job Description: Knott Landfill

For:  
PBS Engineering and Environmental  
390 NE Emerson Ave, Ste C  
Bend, OR 97701  
Attention: Toby Scott



Approved for release.  
Lori T Arnold  
Manager of Project Management  
11/20/2018 4:40 PM

---

Lori T Arnold, Manager of Project Management  
30 Community Drive, South Burlington, VT, 05403  
(802)923-1043  
lori.arnold@testamericainc.com  
11/20/2018  
Revision: 1

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

**TestAmerica Laboratories, Inc.**

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Tel (802) 660-1990 Fax (802) 660-1919 [www.testamericainc.com](http://www.testamericainc.com)

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# Definitions/Glossary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

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## Qualifiers

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### Air - GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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## Glossary

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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: PBS Engineering and Environmental**

**Project: Knott Landfill**

**Report Number: 200-45482-1 Revised**

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.

This submittal was revised to include all of the raw data from the Hutch software system for Method 25C.

### **RECEIPT**

The samples were received on 09/28/2018; the samples arrived in good condition. The flow controllers used for these samples were not returned with the cans.

During the canister pressure check performed upon receipt of the samples, it was observed that the samples were received at an elevated residual vacuum level. The returned vacuum readings for the cans are elevated by 3-4"Hg over the final pressures recorded in the field due to the elevation of the sampling site (3600') relative to the elevation of the lab (160'). This will result in a slight increase in the dilution factor for the pressurization of the cans prior to analysis.

### **NON-METHANE ORGANIC CARBON**

Samples KTSG-COMP-1, KTSG-COMP-2, KTSG-COMP-3, KTSG-COMP-4, KTSG-COMP-5, KTSG-COMP-6, KTSG-COMP-7 and KTSG-COMP-8 were analyzed for Non-Methane Organic Carbon in accordance with EPA Method 25C. The samples were analyzed on 10/05/2018 and 10/16/2018.

Samples KTSG-COMP-1[1.61X], KTSG-COMP-2[2.12X], KTSG-COMP-3[1.93X], KTSG-COMP-4[1.88X], KTSG-COMP-5[1.89X], KTSG-COMP-6[1.91X], KTSG-COMP-7[4.79X] and KTSG-COMP-8[1.91X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The initial closing continuing calibration verification standard (CCV), CCVC 200-135389/5 exhibited low responses. Another CCV was analyzed and it was within the acceptance criteria. The results for both CCVs were provided. It should be noted that a closing CCV is used by the lab to evaluate instrument stability and not required by the method.

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

### **FIXED GASES**

Samples KTSG-COMP-1, KTSG-COMP-2, KTSG-COMP-3, KTSG-COMP-4, KTSG-COMP-5, KTSG-COMP-6, KTSG-COMP-7 and KTSG-COMP-8 were analyzed for Fixed Gases in accordance with EPA Method 3C. The samples were analyzed on 10/05/2018.

Samples KTSG-COMP-1[1.61X], KTSG-COMP-2[2.12X], KTSG-COMP-3[1.93X], KTSG-COMP-4[1.88X], KTSG-COMP-5[1.89X], KTSG-COMP-6[1.91X], KTSG-COMP-7[1.78X] and KTSG-COMP-8[1.91X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-1

## Lab Sample ID: 200-45482-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1500		9.7	9.7	ppm-C	1.61		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1700		9.7	9.7	ppm-C	1.61		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1600		9.7	9.7	ppm-C	1.61		EPA 25C	Total/NA
Carbon dioxide	41		0.081	0.081	% v/v	1.61		EPA 3C	Total/NA
Methane	57		0.064	0.064	% v/v	1.61		EPA 3C	Total/NA
Nitrogen	5.3		0.81	0.81	% v/v	1.61		EPA 3C	Total/NA
Oxygen	0.43		0.081	0.081	% v/v	1.61		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-2

## Lab Sample ID: 200-45482-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1100		13	13	ppm-C	2.12		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1400		13	13	ppm-C	2.12		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1200		13	13	ppm-C	2.12		EPA 25C	Total/NA
Carbon dioxide	43		0.11	0.11	% v/v	2.12		EPA 3C	Total/NA
Methane	47		0.085	0.085	% v/v	2.12		EPA 3C	Total/NA
Nitrogen	15		1.1	1.1	% v/v	2.12		EPA 3C	Total/NA
Oxygen	0.57		0.11	0.11	% v/v	2.12		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-3

## Lab Sample ID: 200-45482-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1100		12	12	ppm-C	1.93		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1300		12	12	ppm-C	1.93		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1200		12	12	ppm-C	1.93		EPA 25C	Total/NA
Carbon dioxide	41		0.097	0.097	% v/v	1.93		EPA 3C	Total/NA
Methane	50		0.077	0.077	% v/v	1.93		EPA 3C	Total/NA
Nitrogen	12		0.97	0.97	% v/v	1.93		EPA 3C	Total/NA
Oxygen	0.69		0.097	0.097	% v/v	1.93		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-4

## Lab Sample ID: 200-45482-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	980		11	11	ppm-C	1.88		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1400		11	11	ppm-C	1.88		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1100		11	11	ppm-C	1.88		EPA 25C	Total/NA
Carbon dioxide	41		0.094	0.094	% v/v	1.88		EPA 3C	Total/NA
Methane	40		0.075	0.075	% v/v	1.88		EPA 3C	Total/NA
Nitrogen	22		0.94	0.94	% v/v	1.88		EPA 3C	Total/NA
Oxygen	0.62		0.094	0.094	% v/v	1.88		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-5

## Lab Sample ID: 200-45482-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1800		11	11	ppm-C	1.89		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	2100		11	11	ppm-C	1.89		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1900		11	11	ppm-C	1.89		EPA 25C	Total/NA
Carbon dioxide	41		0.095	0.095	% v/v	1.89		EPA 3C	Total/NA
Methane	54		0.076	0.076	% v/v	1.89		EPA 3C	Total/NA
Nitrogen	8.6		0.95	0.95	% v/v	1.89		EPA 3C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington



# Detection Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-5 (Continued)

Lab Sample ID: 200-45482-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Oxygen	0.84		0.095	0.095	% v/v	1.89		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-6

Lab Sample ID: 200-45482-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1300		11	11	ppm-C	1.91		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1400		11	11	ppm-C	1.91		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1300		11	11	ppm-C	1.91		EPA 25C	Total/NA
Carbon dioxide	41		0.096	0.096	% v/v	1.91		EPA 3C	Total/NA
Methane	58		0.076	0.076	% v/v	1.91		EPA 3C	Total/NA
Nitrogen	6.5		0.96	0.96	% v/v	1.91		EPA 3C	Total/NA
Oxygen	0.35		0.096	0.096	% v/v	1.91		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-7

Lab Sample ID: 200-45482-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	4500		29	29	ppm-C	4.79		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	4700		29	29	ppm-C	4.79		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	4700		29	29	ppm-C	4.79		EPA 25C	Total/NA
Carbon dioxide	44		0.089	0.089	% v/v	1.78		EPA 3C	Total/NA
Methane	59		0.071	0.071	% v/v	1.78		EPA 3C	Total/NA
Nitrogen	1.2		0.89	0.89	% v/v	1.78		EPA 3C	Total/NA
Oxygen	0.19		0.089	0.089	% v/v	1.78		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-8

Lab Sample ID: 200-45482-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1800		11	11	ppm-C	1.91		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1900		11	11	ppm-C	1.91		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1900		11	11	ppm-C	1.91		EPA 25C	Total/NA
Carbon dioxide	42		0.096	0.096	% v/v	1.91		EPA 3C	Total/NA
Methane	61		0.076	0.076	% v/v	1.91		EPA 3C	Total/NA
Nitrogen	1.8		0.96	0.96	% v/v	1.91		EPA 3C	Total/NA
Oxygen	0.21		0.096	0.096	% v/v	1.91		EPA 3C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-1

## Lab Sample ID: 200-45482-1

Date Collected: 09/24/18 10:54

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1500		9.7	9.7	ppm-C			10/05/18 00:49	1.61
NMOC as Carbon - N2 Corrected	1700		9.7	9.7	ppm-C			10/05/18 00:49	1.61
NMOC as Carbon - O2 Corrected	1600		9.7	9.7	ppm-C			10/05/18 00:49	1.61

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	41		0.081	0.081	% v/v			10/05/18 00:32	1.61
Methane	57		0.064	0.064	% v/v			10/05/18 00:32	1.61
Nitrogen	5.3		0.81	0.81	% v/v			10/05/18 00:32	1.61
Oxygen	0.43		0.081	0.081	% v/v			10/05/18 00:32	1.61

## Client Sample ID: KTSG-COMP-2

## Lab Sample ID: 200-45482-2

Date Collected: 09/24/18 13:19

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1100		13	13	ppm-C			10/05/18 01:56	2.12
NMOC as Carbon - N2 Corrected	1400		13	13	ppm-C			10/05/18 01:56	2.12
NMOC as Carbon - O2 Corrected	1200		13	13	ppm-C			10/05/18 01:56	2.12

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	43		0.11	0.11	% v/v			10/05/18 01:39	2.12
Methane	47		0.085	0.085	% v/v			10/05/18 01:39	2.12
Nitrogen	15		1.1	1.1	% v/v			10/05/18 01:39	2.12
Oxygen	0.57		0.11	0.11	% v/v			10/05/18 01:39	2.12

## Client Sample ID: KTSG-COMP-3

## Lab Sample ID: 200-45482-3

Date Collected: 09/24/18 15:16

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1100		12	12	ppm-C			10/05/18 03:00	1.93
NMOC as Carbon - N2 Corrected	1300		12	12	ppm-C			10/05/18 03:00	1.93
NMOC as Carbon - O2 Corrected	1200		12	12	ppm-C			10/05/18 03:00	1.93

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	41		0.097	0.097	% v/v			10/05/18 02:44	1.93
Methane	50		0.077	0.077	% v/v			10/05/18 02:44	1.93
Nitrogen	12		0.97	0.97	% v/v			10/05/18 02:44	1.93
Oxygen	0.69		0.097	0.097	% v/v			10/05/18 02:44	1.93

# Client Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-4

## Lab Sample ID: 200-45482-4

Date Collected: 09/25/18 09:14

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	980		11	11	ppm-C			10/05/18 08:27	1.88
NMOC as Carbon - N2 Corrected	1400		11	11	ppm-C			10/05/18 08:27	1.88
NMOC as Carbon - O2 Corrected	1100		11	11	ppm-C			10/05/18 08:27	1.88

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	41		0.094	0.094	% v/v			10/05/18 08:11	1.88
Methane	40		0.075	0.075	% v/v			10/05/18 08:11	1.88
Nitrogen	22		0.94	0.94	% v/v			10/05/18 08:11	1.88
Oxygen	0.62		0.094	0.094	% v/v			10/05/18 08:11	1.88

## Client Sample ID: KTSG-COMP-5

## Lab Sample ID: 200-45482-5

Date Collected: 09/25/18 11:08

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1800		11	11	ppm-C			10/05/18 09:32	1.89
NMOC as Carbon - N2 Corrected	2100		11	11	ppm-C			10/05/18 09:32	1.89
NMOC as Carbon - O2 Corrected	1900		11	11	ppm-C			10/05/18 09:32	1.89

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	41		0.095	0.095	% v/v			10/05/18 09:16	1.89
Methane	54		0.076	0.076	% v/v			10/05/18 09:16	1.89
Nitrogen	8.6		0.95	0.95	% v/v			10/05/18 09:16	1.89
Oxygen	0.84		0.095	0.095	% v/v			10/05/18 09:16	1.89

## Client Sample ID: KTSG-COMP-6

## Lab Sample ID: 200-45482-6

Date Collected: 09/25/18 13:55

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1300		11	11	ppm-C			10/05/18 10:37	1.91
NMOC as Carbon - N2 Corrected	1400		11	11	ppm-C			10/05/18 10:37	1.91
NMOC as Carbon - O2 Corrected	1300		11	11	ppm-C			10/05/18 10:37	1.91

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	41		0.096	0.096	% v/v			10/05/18 10:21	1.91
Methane	58		0.076	0.076	% v/v			10/05/18 10:21	1.91
Nitrogen	6.5		0.96	0.96	% v/v			10/05/18 10:21	1.91
Oxygen	0.35		0.096	0.096	% v/v			10/05/18 10:21	1.91

# Client Sample Results

Client: PBS Engineering and Environmental  
 Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
 SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-7

## Lab Sample ID: 200-45482-7

Date Collected: 09/25/18 15:56

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	4500		29	29	ppm-C			10/16/18 14:21	4.79
NMOC as Carbon - N2 Corrected	4700		29	29	ppm-C			10/16/18 14:21	4.79
NMOC as Carbon - O2 Corrected	4700		29	29	ppm-C			10/16/18 14:21	4.79

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	44		0.089	0.089	% v/v			10/05/18 11:25	1.78
Methane	59		0.071	0.071	% v/v			10/05/18 11:25	1.78
Nitrogen	1.2		0.89	0.89	% v/v			10/05/18 11:25	1.78
Oxygen	0.19		0.089	0.089	% v/v			10/05/18 11:25	1.78

## Client Sample ID: KTSG-COMP-8

## Lab Sample ID: 200-45482-8

Date Collected: 09/25/18 17:59

Matrix: Air

Date Received: 09/28/18 10:30

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1800		11	11	ppm-C			10/05/18 12:45	1.91
NMOC as Carbon - N2 Corrected	1900		11	11	ppm-C			10/05/18 12:45	1.91
NMOC as Carbon - O2 Corrected	1900		11	11	ppm-C			10/05/18 12:45	1.91

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	42		0.096	0.096	% v/v			10/05/18 12:29	1.91
Methane	61		0.076	0.076	% v/v			10/05/18 12:29	1.91
Nitrogen	1.8		0.96	0.96	% v/v			10/05/18 12:29	1.91
Oxygen	0.21		0.096	0.096	% v/v			10/05/18 12:29	1.91



# Action Limit Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-1

## Lab Sample ID: 200-45482-1

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	5.3		% v/v	20.000	0.81	EPA 3C	Total/NA
Oxygen	0.43		% v/v	5.0000	0.081	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-2

## Lab Sample ID: 200-45482-2

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	15		% v/v	20.000	1.1	EPA 3C	Total/NA
Oxygen	0.57		% v/v	5.0000	0.11	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-3

## Lab Sample ID: 200-45482-3

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	12		% v/v	20.000	0.97	EPA 3C	Total/NA
Oxygen	0.69		% v/v	5.0000	0.097	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-4

## Lab Sample ID: 200-45482-4

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	22		% v/v	20.000	0.94	EPA 3C	Total/NA
Oxygen	0.62		% v/v	5.0000	0.094	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-5

## Lab Sample ID: 200-45482-5

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	8.6		% v/v	20.000	0.95	EPA 3C	Total/NA
Oxygen	0.84		% v/v	5.0000	0.095	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-6

## Lab Sample ID: 200-45482-6

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	6.5		% v/v	20.000	0.96	EPA 3C	Total/NA
Oxygen	0.35		% v/v	5.0000	0.096	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-7

## Lab Sample ID: 200-45482-7

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	1.2		% v/v	20.000	0.89	EPA 3C	Total/NA

# Action Limit Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

**Client Sample ID: KTSG-COMP-7 (Continued)**

**Lab Sample ID: 200-45482-7**

## 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Oxygen	0.19		% v/v	5.0000	0.089	EPA 3C	Total/NA

**Client Sample ID: KTSG-COMP-8**

**Lab Sample ID: 200-45482-8**

## 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	1.8		% v/v	20.000	0.96	EPA 3C	Total/NA
Oxygen	0.21		% v/v	5.0000	0.096	EPA 3C	Total/NA

# Default Detection Limits

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	RL	MDL	Units	Method
NMOC as Carbon - N2 Corrected	6.0	6.0	ppm-C	EPA 25C
NMOC as Carbon - O2 Corrected	6.0	6.0	ppm-C	EPA 25C
NMOC as Carbon - Uncorrected	6.0	6.0	ppm-C	EPA 25C

## Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	RL	MDL	Units	Method
Carbon dioxide	0.050	0.050	% v/v	EPA 3C
Methane	0.040	0.040	% v/v	EPA 3C
Nitrogen	0.50	0.50	% v/v	EPA 3C
Oxygen	0.050	0.050	% v/v	EPA 3C

# QC Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

**Lab Sample ID: MB 200-135207/3**  
**Matrix: Air**  
**Analysis Batch: 135207**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	6.0	U	6.0	6.0	ppm-C			10/04/18 19:09	1

**Lab Sample ID: LCS 200-135207/2**  
**Matrix: Air**  
**Analysis Batch: 135207**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NMOC as Carbon – Uncorrected	750	736		ppm-C		98	70 - 130

**Lab Sample ID: MB 200-135389/3**  
**Matrix: Air**  
**Analysis Batch: 135389**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	6.0	U	6.0	6.0	ppm-C			10/16/18 13:17	1

**Lab Sample ID: LCS 200-135389/2**  
**Matrix: Air**  
**Analysis Batch: 135389**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NMOC as Carbon – Uncorrected	750	734		ppm-C		98	70 - 130

## Method: EPA 3C - Fixed Gases from Stationary Sources

**Lab Sample ID: MB 200-135204/3**  
**Matrix: Air**  
**Analysis Batch: 135204**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	0.050	U	0.050	0.050	% v/v			10/04/18 19:09	1
Methane	0.040	U	0.040	0.040	% v/v			10/04/18 19:09	1
Nitrogen	0.50	U	0.50	0.50	% v/v			10/04/18 19:09	1
Oxygen	0.050	U	0.050	0.050	% v/v			10/04/18 19:09	1

**Lab Sample ID: LCS 200-135204/2**  
**Matrix: Air**  
**Analysis Batch: 135204**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	5.00	5.25		% v/v		105	70 - 130
Methane	4.00	3.82		% v/v		95	70 - 130
Nitrogen	5.00	4.56		% v/v		91	70 - 130
Oxygen	2.50	2.26		% v/v		90	70 - 130



# QC Association Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Air - GC VOA

### Analysis Batch: 135204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-45482-1	KTSG-COMP-1	Total/NA	Air	EPA 3C	
200-45482-2	KTSG-COMP-2	Total/NA	Air	EPA 3C	
200-45482-3	KTSG-COMP-3	Total/NA	Air	EPA 3C	
200-45482-4	KTSG-COMP-4	Total/NA	Air	EPA 3C	
200-45482-5	KTSG-COMP-5	Total/NA	Air	EPA 3C	
200-45482-6	KTSG-COMP-6	Total/NA	Air	EPA 3C	
200-45482-7	KTSG-COMP-7	Total/NA	Air	EPA 3C	
200-45482-8	KTSG-COMP-8	Total/NA	Air	EPA 3C	
MB 200-135204/3	Method Blank	Total/NA	Air	EPA 3C	
LCS 200-135204/2	Lab Control Sample	Total/NA	Air	EPA 3C	

### Analysis Batch: 135207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-45482-1	KTSG-COMP-1	Total/NA	Air	EPA 25C	
200-45482-2	KTSG-COMP-2	Total/NA	Air	EPA 25C	
200-45482-3	KTSG-COMP-3	Total/NA	Air	EPA 25C	
200-45482-4	KTSG-COMP-4	Total/NA	Air	EPA 25C	
200-45482-5	KTSG-COMP-5	Total/NA	Air	EPA 25C	
200-45482-6	KTSG-COMP-6	Total/NA	Air	EPA 25C	
200-45482-8	KTSG-COMP-8	Total/NA	Air	EPA 25C	
MB 200-135207/3	Method Blank	Total/NA	Air	EPA 25C	
LCS 200-135207/2	Lab Control Sample	Total/NA	Air	EPA 25C	

### Analysis Batch: 135389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-45482-7	KTSG-COMP-7	Total/NA	Air	EPA 25C	
MB 200-135389/3	Method Blank	Total/NA	Air	EPA 25C	
LCS 200-135389/2	Lab Control Sample	Total/NA	Air	EPA 25C	

# Lab Chronicle

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-1

Date Collected: 09/24/18 10:54

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.61	135207	10/05/18 00:49	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.61	135204	10/05/18 00:32	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-2

Date Collected: 09/24/18 13:19

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		2.12	135207	10/05/18 01:56	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		2.12	135204	10/05/18 01:39	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-3

Date Collected: 09/24/18 15:16

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.93	135207	10/05/18 03:00	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.93	135204	10/05/18 02:44	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-4

Date Collected: 09/25/18 09:14

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.88	135207	10/05/18 08:27	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.88	135204	10/05/18 08:11	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-5

Date Collected: 09/25/18 11:08

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.89	135207	10/05/18 09:32	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.89	135204	10/05/18 09:16	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-6

Date Collected: 09/25/18 13:55

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.91	135207	10/05/18 10:37	WRD	TAL BUR

TestAmerica Burlington

# Lab Chronicle

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Client Sample ID: KTSG-COMP-6

Date Collected: 09/25/18 13:55

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 3C		1.91	135204	10/05/18 10:21	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-7

Date Collected: 09/25/18 15:56

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		4.79	135389	10/16/18 14:21	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.78	135204	10/05/18 11:25	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-8

Date Collected: 09/25/18 17:59

Date Received: 09/28/18 10:30

Lab Sample ID: 200-45482-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.91	135207	10/05/18 12:45	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.91	135204	10/05/18 12:29	WRD	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: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

## Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-19
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Hampshire	NELAP	1	2006	12-18-18 *
New Jersey	NELAP	2	VT972	06-30-19
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-19
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.



# Method Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
EPA 25C	Nonmethane Organic Compounds (NMOC)	EPA	TAL BUR
EPA 3C	Fixed Gases from Stationary Sources	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: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45482-1  
SDG: 200-45482-1

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collected</b>	<b>Received</b>
200-45482-1	KTSG-COMP-1	Air	09/24/18 10:54	09/28/18 10:30
200-45482-2	KTSG-COMP-2	Air	09/24/18 13:19	09/28/18 10:30
200-45482-3	KTSG-COMP-3	Air	09/24/18 15:16	09/28/18 10:30
200-45482-4	KTSG-COMP-4	Air	09/25/18 09:14	09/28/18 10:30
200-45482-5	KTSG-COMP-5	Air	09/25/18 11:08	09/28/18 10:30
200-45482-6	KTSG-COMP-6	Air	09/25/18 13:55	09/28/18 10:30
200-45482-7	KTSG-COMP-7	Air	09/25/18 15:56	09/28/18 10:30
200-45482-8	KTSG-COMP-8	Air	09/25/18 17:59	09/28/18 10:30

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 83144

Lab Sample ID: IC 200-83144/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/08/15 12:02 Lab File ID: 25cic1\_01082015001.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.88	Baseline Event	lyonsb	01/08/15 12:40

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 135207

Lab Sample ID: MB 200-135207/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/04/18 19:09 Lab File ID: mb20181004a.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	10.28	Baseline Smoothing	desjardin sb	10/13/18 14:33

Lab Sample ID: 200-45482-1 Client Sample ID: KTSG-COMP-1

Date Analyzed: 10/05/18 00:49 Lab File ID: 200-45482-a-1b.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	10.02	Baseline Smoothing	desjardin sb	10/13/18 14:39

Lab Sample ID: 200-45482-2 Client Sample ID: KTSG-COMP-2

Date Analyzed: 10/05/18 01:56 Lab File ID: 200-45482-a-2b.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.94	Baseline Smoothing	desjardin sb	10/13/18 14:40

Lab Sample ID: 200-45482-4 Client Sample ID: KTSG-COMP-4

Date Analyzed: 10/05/18 08:27 Lab File ID: 200-45482-a-4b.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.99	Baseline Smoothing	desjardin sb	10/13/18 14:41



AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 135207

Lab Sample ID: 200-45482-5 Client Sample ID: KTSG-COMP-5

Date Analyzed: 10/05/18 09:32 Lab File ID: 200-45482-a-5b.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.94	Baseline Smoothing	desjardin sb	10/13/18 14:43

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 135389

Lab Sample ID: MB 200-135389/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/16/18 13:17 Lab File ID: mb20181016a.d-avg GC Column: Carbo/Unibead ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	10.28	Baseline Smoothing	desjardin sb	10/17/18 12:02

Lab Sample ID: 200-45482-7 Client Sample ID: KTSG-COMP-7

Date Analyzed: 10/16/18 14:21 Lab File ID: 200-45482-a-7k.d-avg GC Column: Carbo/Unibead ID: 2(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	10.00	Baseline Smoothing	desjardin sb	10/17/18 12:03

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 92935

Lab Sample ID: IC 200-92935/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 10:20 Lab File ID: ic-02001.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	4.55	Baseline Smoothing	daiglep	08/17/15 14:16
Nitrogen	5.65	Baseline Smoothing	daiglep	08/17/15 14:16
Methane	7.86	Baseline Smoothing	daiglep	08/17/15 14:16
Carbon monoxide	8.51	Baseline Smoothing	daiglep	08/17/15 14:16

Lab Sample ID: IC 200-92935/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 11:34 Lab File ID: ic-03002.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.00	Baseline Smoothing	desjardin sb	08/18/15 11:48
Carbon monoxide	8.55	Baseline Smoothing	desjardin sb	08/18/15 11:48

Lab Sample ID: ICIS 200-92935/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 12:09 Lab File ID: icis-04001.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.20	Baseline Smoothing	daiglep	08/17/15 14:09
Carbon monoxide	8.56	Baseline Smoothing	daiglep	08/17/15 14:09

Lab Sample ID: IC 200-92935/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 13:16 Lab File ID: co cal1002.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon monoxide	8.56	Baseline Smoothing	desjardin sb	08/18/15 09:24

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 92935

Lab Sample ID: ICV 200-92935/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 18:25 Lab File ID: icv002.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.17	Baseline Smoothing	desjardin sb	08/18/15 09:49
Carbon monoxide	8.54	Baseline Smoothing	desjardin sb	08/18/15 09:49



AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 135204

Lab Sample ID: CCV 200-135204/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/04/18 15:14 Lab File ID: 3cccv20181004a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.10	Split Peak	desjardin sb	10/13/18 14:21
Carbon monoxide	8.37	Split Peak	desjardin sb	10/13/18 14:21

Lab Sample ID: LCS 200-135204/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/04/18 15:50 Lab File ID: 3clcs20181004a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.91	Split Peak	desjardin sb	10/13/18 14:23

Lab Sample ID: MB 200-135204/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/04/18 19:09 Lab File ID: mb20181004a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide		Invalid Compound ID	desjardin sb	10/13/18 14:24

Lab Sample ID: 200-45482-1 Client Sample ID: KTSG-COMP-1

Date Analyzed: 10/05/18 00:32 Lab File ID: 200-45482-a-1a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.70	Peak assignment corrected	desjardin sb	10/13/18 14:26

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 135204

Lab Sample ID: 200-45482-2 Client Sample ID: KTSG-COMP-2

Date Analyzed: 10/05/18 01:39 Lab File ID: 200-45482-a-2a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.79	Peak assignment corrected	desjardin sb	10/13/18 14:26

Lab Sample ID: 200-45482-3 Client Sample ID: KTSG-COMP-3

Date Analyzed: 10/05/18 02:44 Lab File ID: 200-45482-a-3a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.62	Peak assignment corrected	desjardin sb	10/13/18 14:27

Lab Sample ID: 200-45482-4 Client Sample ID: KTSG-COMP-4

Date Analyzed: 10/05/18 08:11 Lab File ID: 200-45482-a-4a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.77	Peak assignment corrected	desjardin sb	10/13/18 14:27

Lab Sample ID: 200-45482-5 Client Sample ID: KTSG-COMP-5

Date Analyzed: 10/05/18 09:16 Lab File ID: 200-45482-a-5a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.67	Peak assignment corrected	desjardin sb	10/13/18 14:27

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Analysis Batch Number: 135204

Lab Sample ID: 200-45482-6 Client Sample ID: KTSG-COMP-6

Date Analyzed: 10/05/18 10:21 Lab File ID: 200-45482-a-6a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.72	Peak assignment corrected	desjardin sb	10/13/18 14:28

Lab Sample ID: 200-45482-7 Client Sample ID: KTSG-COMP-7

Date Analyzed: 10/05/18 11:25 Lab File ID: 200-45482-a-7a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.60	Peak assignment corrected	desjardin sb	10/13/18 14:28

Lab Sample ID: 200-45482-8 Client Sample ID: KTSG-COMP-8

Date Analyzed: 10/05/18 12:29 Lab File ID: 200-45482-a-8a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.69	Peak assignment corrected	desjardin sb	10/13/18 14:28

Lab Sample ID: CCVC 200-135204/16 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/05/18 14:21 Lab File ID: 3ccvc20181005a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.86	Split Peak	desjardin sb	10/13/18 14:29
Carbon monoxide	8.11	Split Peak	desjardin sb	10/13/18 14:29

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-45482-1

SDG No.: 200-45482-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>AT3CCAL1i_00014</b>	11/17/15	08/17/15	helium, Lot n/a	10 L	AT3CCCVs_00059	100 mL	Carbon dioxide	0.05 % v/v
							Methane	0.04 % v/v
							Oxygen	0.05 % v/v
.AT3CCCVs_00059	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Oxygen	5 % v/v
<b>AT3CCAL2i_00012</b>	11/17/15	08/17/15	helium, Lot n/a	2 L	AT3CCCVs_00059	200 mL	Carbon dioxide	0.5 % v/v
							Carbon monoxide	0.5 % v/v
							Methane	0.4 % v/v
							Nitrogen	0.5 % v/v
							Oxygen	0.5 % v/v
.AT3CCCVs_00059	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Carbon monoxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CCAL3i_00012</b>	11/17/15	08/17/15	helium, Lot n/a	2 L	AT3CCCVs_00059	1000 mL	Carbon dioxide	2.5 % v/v
							Carbon monoxide	2.5 % v/v
							Methane	2 % v/v
							Nitrogen	2.5 % v/v
							Oxygen	2.5 % v/v
.AT3CCCVs_00059	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Carbon monoxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CCCVs_00060</b>	06/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Carbon monoxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CCCVs_00066</b>	06/07/21	Air Gas/ Scott, Lot 160-401215822-1			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	2.5 % v/v
<b>AT3CCOCa10.1%_00005</b>	11/17/15	08/17/15	Helium, Lot NA	10 L	AT3CCOs_00004	100 mL	Carbon monoxide	0.1 % v/v
.AT3CCOs_00004	11/24/15	Matheson, Lot 109-44-10691-A1			(Purchased Reagent)		Carbon monoxide	10 % v/v
							Carbon monoxide	10 % v/v
<b>AT3CLCs_00003</b>	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CLCs_00008</b>	06/07/21	Airgas / Scott, Lot 160-401215822			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-45482-1

SDG No.: 200-45482-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Oxygen	2.5 % v/v
<b>AT3Czeroair_00007</b>	01/05/16		Air Gas, Lot 114-400462784-1		(Purchased Reagent)		Nitrogen	78 % v/v
							Oxygen	22 % v/v
<b>ATnitrogens_00008</b>	11/18/15		TA, Lot n/a		(Purchased Reagent)		Nitrogen	100 % v/v
<b>ATNMOCCAL1w_00020</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	12.5 L	ATNMOCCCVw_00037	100 mL	NMOC as Carbon - Uncorrected	6 ppm-C
.ATNMOCCCVw_00037	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	16 L	ATNMOCCALs_00011	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
..ATNMOCCALs_00011	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCCAL3w_00018</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	12.383 L	ATNMOCCALs_00011	743 mL	NMOC as Carbon - Uncorrected	1800.05 ppm-C
.ATNMOCCALs_00011	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCCCVw_00037</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	16 L	ATNMOCCALs_00011	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCCALs_00011	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCCCVw_00055</b>	10/23/18	07/23/18	Nitrogen, Lot 1	16 L	ATNMOCCALs_00015	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCCALs_00015	06/14/19		Airgas, Lot GBH-176N-1-2		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCLCSw_00045</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	16 L	ATNMOCLCSs_00007	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCLCSs_00007	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCLCSw_00061</b>	10/23/18	07/23/18	Nitrogen, Lot 1	16 L	ATNMOCLCSs_00008	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCLCSs_00008	11/10/18		Air Liquide/ Scottgas, Lot 403-179118		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C



Reagent

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**AT3CCCVs\_00059**



Air Liquide America  
Specialty Gases LLC



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From: PLUMSTEADVILLE PA 18949-0310  
Phone: 800-331-4953 Fax: 215-766-7226  
**C E R T I F I C A T E    O F    A N A L Y S I S**

-----

TESTAMERICA BURLINGTON	DOCUMENT#: 58455812 -001
BEN LYONS-PO#2595318	PO#: 98916
30 COMMUNITY DR, SUITE 11	ITEM #: T234-14
SOUTH BURLINGTON VT 05403	CUST ITEM #: 34512
US	DATE: 12Jan2015

-----

ANALYTICAL ACCURACY: +/-2%  
PRODUCT EXPIRATION: 12Jan2018

LOT # : 012PLU5SPC02L

<u>COMPONENT</u>	<u>REQUESTED GAS</u>	<u>ANALYSIS</u>
	<u>CONC MOLES</u>	<u>(MOLES)</u>
CARBON DIOXIDE	5. %	5.0 %
CARBON MONOXIDE	5. %	5.0 %
HYDROGEN	4. %	4.0 %
METHANE	4. %	4.0 %
NITROGEN	5. %	5.0 %
OXYGEN	5. %	5.0 %
HELIUM	BALANCE	BALANCE



757388

ID: AT3CCCVs\_00059  
Exp 01/15/16 Prpd BPL Ogn 01/15/15  
5%CO<sub>2</sub>,CO,N<sub>2</sub>,O<sub>2</sub>,4%CH<sub>4</sub>, H<sub>2</sub>

*TL*  
*11/5/15*

P/N 34512

MANUFACTURED DATE: 12Jan2015

SCOTTY SIZE: 14

APPROVED BY:

DAN TRAVISANO

Reagent

---

**AT3CCCVs\_00060**



Air Liquide America  
Specialty Gases LLC



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PLUMSTEADVILLE PA 18949-0310  
Phone: 800-331-4953 Fax: 215-766-7226  
FO BOX 310

### CERTIFICATE OF ANALYSIS

TESTAMERICA BURLINGTON  
BEN LYONS-PO#2595318  
30 COMMUNITY DR, SUITE 11  
SOUTH BURLINGTON VT 05403  
US

DOCUMENT#: 58455812 -001  
PO#: 98916  
ITEM #: T234-14  
CUST ITEM #: 34512  
DATE: 12Jan2015

ANALYTICAL ACCURACY: +/-2%  
PRODUCT EXPIRATION: 12Jan2018

LOT # : 012PLU5SPC02L

COMPONENT	REQUESTED GAS CONC MOLES	ANALYSIS (MOLES)
CARBON DIOXIDE	5. %	5.0 %
CARBON MONOXIDE	5. %	5.0 %
HYDROGEN	4. %	4.0 %
METHANE	4. %	4.0 %
NITROGEN	5. %	5.0 %
OXYGEN	5. %	5.0 %
HELIUM	BALANCE	BALANCE



757388  
ID: AT3CCCVs\_00059  
Exp 01/15/16 Prp4 BPL Opn 01/15/15  
5%CO2, CO, N2, O2, 4%CH4, H2

TL  
1/15/15

P/N 34512

MANUFACTURED DATE: 12Jan2015 SCOTTY SIZE: 14

APPROVED BY: DAN TRAVISANO

Reagent

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**AT3CCCVs\_00066**



1163388  
ID: AT3CCCVs\_00066  
Exp:06/07/21 Prpd:WRD Opr:06/14/18  
5%CO2,CO,N2 & 4%CH4,H2 &

# CERTIFICATE OF BATCH ANALYSIS

## Grade of Product: CERTIFIED STANDARD-SPEC

Customer:	TESTAMERICA BURLINGTON	Reference Number:	160-401215822-1
Part Number:	X07HE74CP14C000	Cylinder Volume:	0.5 LG
Cylinder Analyzed:	ST0000183253	Cylinder Pressure:	240 PSIG
Laboratory:	124 - Plumsteadville - PA	Valve Outlet:	160
Analysis Date:	Jun 07, 2018		
Lot Number:	160-401215822-1		
<b>Expiration Date: Jun 07, 2021</b>			

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

### ANALYTICAL RESULTS

Component	Req Conc	Actual Concentration (Mole %)	Analytical Uncertainty
OXYGEN	2.500 %	2.557 %	+/- 2%
HYDROGEN	4.000 %	4.012 %	+/- 2%
METHANE	4.000 %	4.001 %	+/- 2%
CARBON DIOXIDE	5.000 %	5.038 %	+/- 2%
CARBON MONOXIDE	5.000 %	5.011 %	+/- 2%
NITROGEN	5.000 %	5.014 %	+/- 2%
HELIUM	Balance		

Permanent Notes: RESTEK P/N 34543

Cylinders in Batch:

ST0000183253, ST0000183254



*Paul P.*  
\_\_\_\_\_  
Approved for Release

Reagent

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**AT3CLCSs\_00003**



Air Liquide America  
Specialty Gases LLC



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C E R T I F I C A T E O F A N A L Y S I S

TESTAMERICA BURLINGTON  
 BEN LYONS-PO#2595318  
 30 COMMUNITY DR, SUITE 11  
 SOUTH BURLINGTON VT 05403  
 US

DOCUMENT#: 58455812 -001  
 PO#: 98916  
 ITEM #: T234-14  
 CUST ITEM #: 34512  
 DATE: 12Jan2015

ANALYTICAL ACCURACY: +/-2%  
 PRODUCT EXPIRATION: 12Jan2018

LOT # : 012PLU5SPC02L

COMPONENT	REQUESTED GAS		ANALYSIS	
	CONC MOLES		(MOLES)	
CARBON DIOXIDE	5.	%	5.0	%
CARBON MONOXIDE	5.	%	5.0	%
HYDROGEN	4.	%	4.0	%
METHANE	4.	%	4.0	%
NITROGEN	5.	%	5.0	%
OXYGEN	5.	%	5.0	%
HELIUM				
	BALANCE		BALANCE	



757389

ID: AT3CLCSs\_00003  
 Exp: 01/15/16 Prpd BPL Opr: 01/15/15  
 5%CO2, CO, N2, O2, 4%CH4, H2

*BL*  
*1/15/15*

P/N 34512

MANUFACTURED DATE: 12Jan2015

SCOTTY SIZE: 14

APPROVED BY:

DAN TRAVISANO

Reagent

---

**AT3CLCSs\_00008**

ST0# 1187558

# CERTIFICATE OF BATCH ANALYSIS

## Grade of Product: CERTIFIED STANDARD-SPEC

Customer:	TESTAMERICA BURLINGTON	Reference Number:	160-401215822-1
Part Number:	X07HE74CP14C000	Cylinder Volume:	0.5 LG
Cylinder Analyzed:	ST0000183253	Cylinder Pressure:	240 PSIG
Laboratory:	124 - Plumsteadville - PA	Valve Outlet:	160
Analysis Date:	Jun 07, 2018		
Lot Number:	160-401215822-1		

**Expiration Date: Jun 07, 2021**

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

### ANALYTICAL RESULTS

Component	Req Conc	Actual Concentration (Mole %)	Analytical Uncertainty
OXYGEN	2.500 %	2.557 %	+/- 2%
HYDROGEN	4.000 %	4.012 %	+/- 2%
METHANE	4.000 %	4.001 %	+/- 2%
CARBON DIOXIDE	5.000 %	5.038 %	+/- 2%
CARBON MONOXIDE	5.000 %	5.011 %	+/- 2%
NITROGEN	5.000 %	5.014 %	+/- 2%
HELIUM	Balance		

Permanent Notes: RESTEK P/N 34543

Cylinders in Batch:

ST0000183253, ST0000183254



*Paul Per*

Approved for Release



Reagent

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**ATNMOCCALs\_00011**



Air Liquide America  
Specialty Gases LLC



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CERTIFICATE OF ANALYSIS

TESTAMERICA  
30 COMMUNITY DRIVE  
SOUTH BURLINGTON VT 05403  
US

DOCUMENT#: 55543259 -001  
PO#: 2566053  
ITEM #: T4448-17  
DATE: 03Jun2014

ANALYTICAL ACCURACY: +/-5%  
PRODUCT EXPIRATION: 03Jun2017

LOT # : 153PLU4SPC01D

COMPONENT	REQUESTED GAS	ANALYSIS
	CONC MOLES	(MOLES)
PROPANE	1.0 %	1.0 %
NITROGEN	BALANCE	BALANCE



725264  
ID: ATNMOCCALs\_00011  
Exp. 10/30/15 Prpd BPL Opn. 10/30/14  
Propane 1% NMOC

*BL*  
*10/30/2014*



725265  
ID: ATNMOCLCSs\_00007  
Exp. 10/30/15 Prpd BPL Opn. 10/30/14  
Propane 1% NMOC

MANUFACTURED DATE: 03Jun2014

SCOTTY SIZE: 17

APPROVED BY:

*Lynn Matonis*

LYNN MATONIS

Reagent

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**ATNMOCCALs\_00015**



ATMOCALS - 0044  
15  
~~105425~~  
1176932

## CERTIFICATE OF ANALYSIS

<b>Customer:</b>	Airgas Specialty Gases	<b>Cylinder Size:</b>	0.6 Cu. Ft.
<b>PO Number:</b>	5800072123	<b>Cylinder Volume:</b>	17 Liter
<b>Part Number:</b>	X02NI99CP170047/ 17L-176N-1	<b>Cylinder Pressure:</b>	240 psig
<b>Lot Number:</b>	GBH-176N-1-2	<b>Valve Outlet:</b>	CGA 600
<b>Analysis Date:</b>	06/13/2017	<b>Blend Tolerance:</b>	+/-5%

Use Before: 06/14/2021


### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration (Mole %)	Analytical Uncertainty
Propane	1.0% vol.	1.01% vol.	+/- 2 %
Nitrogen	Balance		

NIST Weight Certificate Number(s): 000521

The calibration gas prepared by Airgas is considered a certified standard. It is prepared by gravimetric, or partial pressure techniques. The calibration standard provided is prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

**Analyst:**

  
Andrew Sullivan

Reagent

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**ATNMOCLCSs\_00007**





Air Liquide America  
Specialty Gases LLC



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PLUMSTEADVILLE PA 18949-0310  
Phone: 800-331-4953  
Fax: 215-766-7226  
PO BOX 310

C E R T I F I C A T E O F A N A L Y S I S

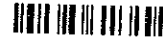
TESTAMERICA  
30 COMMUNITY DRIVE  
SOUTH BURLINGTON VT 05403  
US

DOCUMENT#: 55543259 -001  
PO#: 2566053  
ITEM #: T4448-17  
DATE: 03Jun2014

ANALYTICAL ACCURACY: +/-5%  
PRODUCT EXPIRATION: 03Jun2017

LOT # : 153PLU4SPC01D

COMPONENT	REQUESTED GAS	ANALYSIS
	CONC MOLES	(MOLES)
PROPANE	1.0 %	1.0 %
NITROGEN	BALANCE	BALANCE



725264  
ID: ATNMOCCALs\_00011  
Exp. 10/30/15 Prpd BPL Opn. 10/30/14  
Propane 1% NMOC

*BL*  
*10/30/2014*



725265  
ID: ATNMOCLCSs\_00007  
Exp. 10/30/15 Prpd BPL Opn. 10/30/14  
Propane 1% NMOC

MANUFACTURED DATE: 03Jun2014

SCOTTY SIZE: 17

APPROVED BY: *Lynn Matonis*  
LYNN MATONIS

Reagent

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**ATNMOCLCSs\_00008**



1176940

Shipped 6141 Easton Road  
From: Plumsteadville, PA 18949  
Phone: 215-766-8860  
Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA  
TESTAMERICA  
30 Community Dr  
South Burlington, VT 05403-6809  
US

Sales Order #: 3660380  
P.O. #: 2650212  
Item No.: A0914090  
Date: 17Jun2016

Cylinder #: ST0000165684  
Fill Pressure: 240 PSIG  
CGA: 600

Product Expiration: 17Jun2019  
Lot #: 403-462492

Blend Type: CERTIFIED SCOTTY

Component Name	Requested Gas Conc (Moles)	Analysis (Mole)	Accuracy (+ / - %)
PROPANE	1.00 %	1.0 %	2
NITROGEN	BALANCE	BALANCE	

APPROVED BY:

*Dan Trivisano*  
DAN TRAVISANO

DATE: 16Jun2016



# Method EPA 3C

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Fixed Gases from Stationary Sources  
by Method EPA - 3C

FORM III  
AIR - GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Matrix: Air Level: Low Lab File ID: 3clcs20181004a.d-avg

Lab ID: LCS 200-135204/2 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (% v/v)	LCS CONCENTRATION (% v/v)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	5.00	5.25	105	70-130	
Methane	4.00	3.82	95	70-130	
Nitrogen	5.00	4.56	91	70-130	
Oxygen	2.50	2.26	90	70-130	

# Column to be used to flag recovery and RPD values



FORM IV  
AIR - GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab File ID: mb20181004a.d-avg Lab Sample ID: MB 200-135204/3  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CH0001.i Date Analyzed: 10/04/2018 19:09  
 GC Column: CTR-1 ID: 3.175 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-135204/2	3clcs20181004a.d-avg	10/04/2018 15:50
KTSG-COMP-1	200-45482-1	200-45482-a-1a.d-avg	10/05/2018 00:32
KTSG-COMP-2	200-45482-2	200-45482-a-2a.d-avg	10/05/2018 01:39
KTSG-COMP-3	200-45482-3	200-45482-a-3a.d-avg	10/05/2018 02:44
KTSG-COMP-4	200-45482-4	200-45482-a-4a.d-avg	10/05/2018 08:11
KTSG-COMP-5	200-45482-5	200-45482-a-5a.d-avg	10/05/2018 09:16
KTSG-COMP-6	200-45482-6	200-45482-a-6a.d-avg	10/05/2018 10:21
KTSG-COMP-7	200-45482-7	200-45482-a-7a.d-avg	10/05/2018 11:25
KTSG-COMP-8	200-45482-8	200-45482-a-8a.d-avg	10/05/2018 12:29

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-1</u>	Lab Sample ID: <u>200-45482-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-1a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/24/2018 10:54</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 00:32</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.61</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	41		0.081	0.081
74-82-8	Methane	57		0.064	0.064
7727-37-9	Nitrogen	5.3		0.81	0.81
7782-44-7	Oxygen	0.43		0.081	0.081

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-1a.d  
 Lims ID: 200-45482-A-1  
 Client ID: KTSG-COMP-1  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 00:32:20 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.6100  
 Sample Info: 200-45482-A-1a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:07:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:26:38

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.893	1.894	-0.001	1135865	25.6	
2 Oxygen	4.512	4.487	0.025	13536	0.2695	
3 Nitrogen	5.558	5.582	-0.024	184907	3.31	
4 Methane	7.698	8.069	-0.371	1448505	35.4	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-1b.d  
 Lims ID: 200-45482-A-1  
 Client ID: KTSG-COMP-1  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 00:49:01 ALS Bottle#: 0 Worklist Smp#: 16  
 Purge Vol: 2.000 mL Dil. Factor: 1.6100  
 Sample Info: 200-45482-A-1b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:07:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:26:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.880	1.894	-0.014	1118662	25.2	
2 Oxygen	4.477	4.487	-0.010	13291	0.2646	Ma
3 Nitrogen	5.527	5.582	-0.055	184200	3.30	Ma
4 Methane	7.667	8.069	-0.402	1451586	35.4	Ma

QC Flag Legend

Review Flags

- M - Manually Integrated
- a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-1a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-1b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

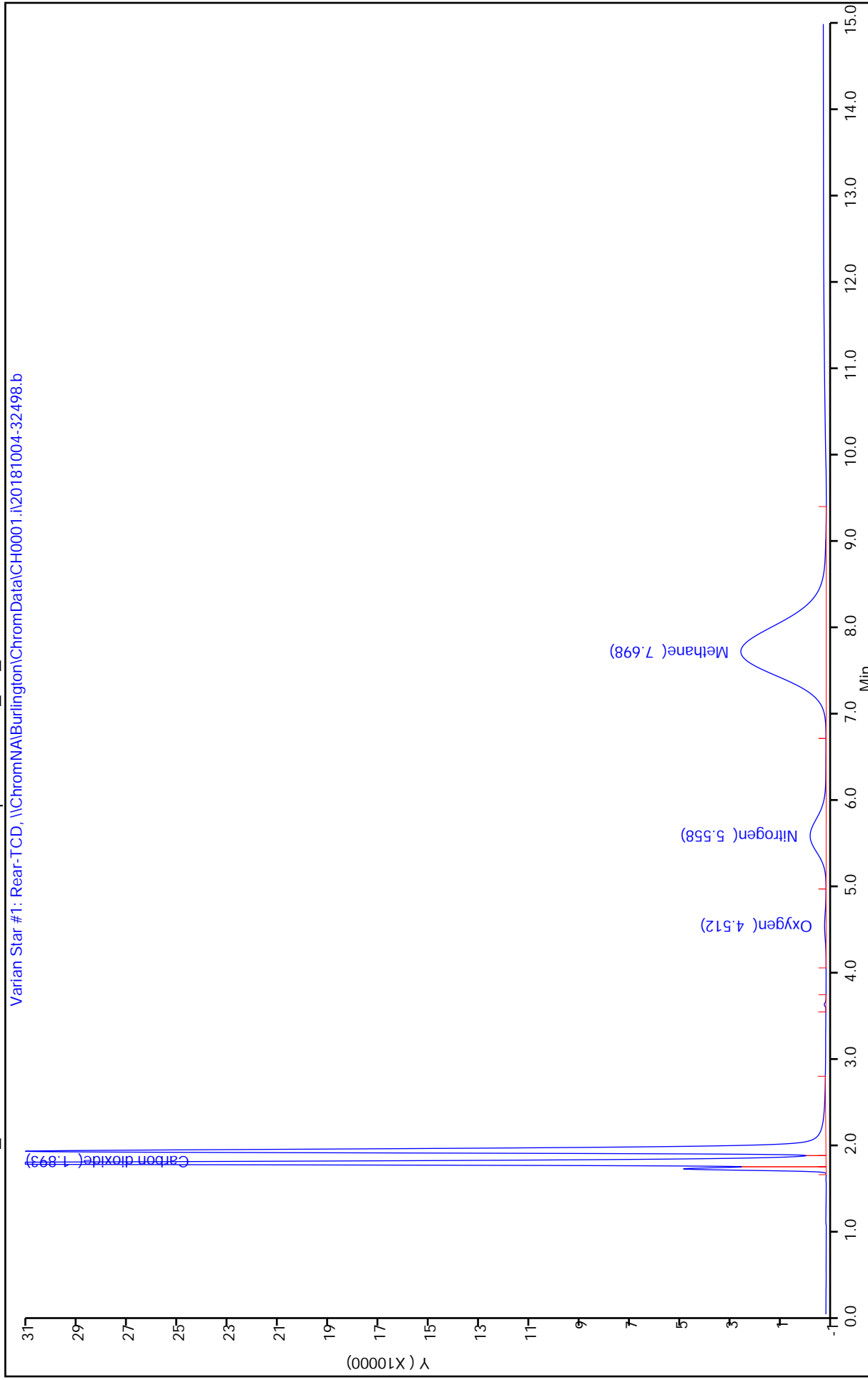
Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	1135865	1118662	1127263.5	0.76
Oxygen	13536	13291	13413.5	0.91
Nitrogen	184907	184200	184553.5	0.19
Methane	1448505	1451586	1450045.5	0.11

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	25.59	25.2	25.4	0.76
Oxygen	0.27	0.26	0.27	0.91
Nitrogen	3.31	3.3	3.31	0.19
Methane	35.36	35.44	35.4	0.11



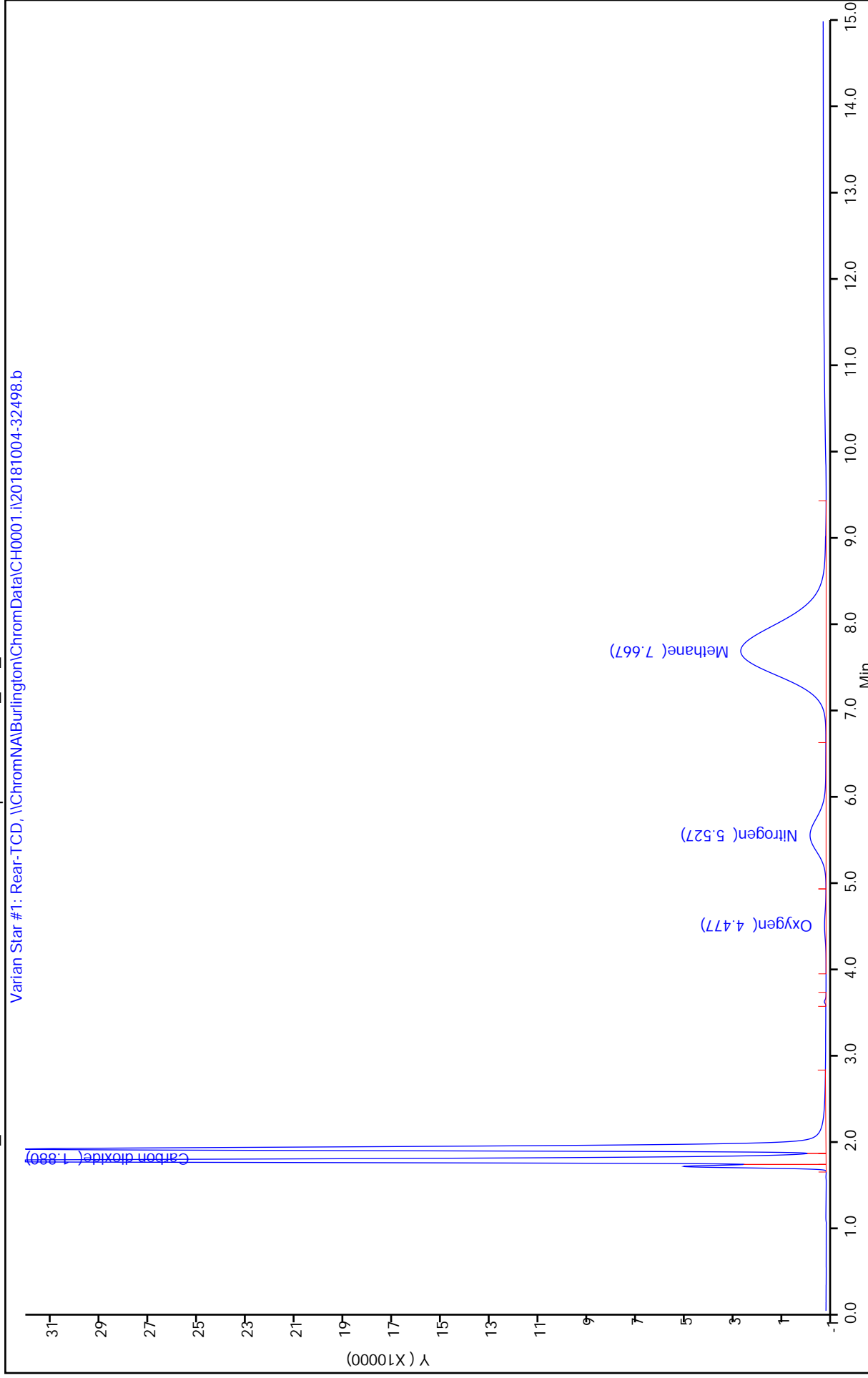
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-1a.d  
Injection Date: 05-Oct-2018 00:32:20 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1 Worklist Smp#: 15  
Client ID: KTSG-COMP-1 Dil. Factor: 1.6100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-1b.d  
Injection Date: 05-Oct-2018 00:49:01 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1 Worklist Smp#: 16  
Client ID: KTSG-COMP-1 Dil. Factor: 1.6100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

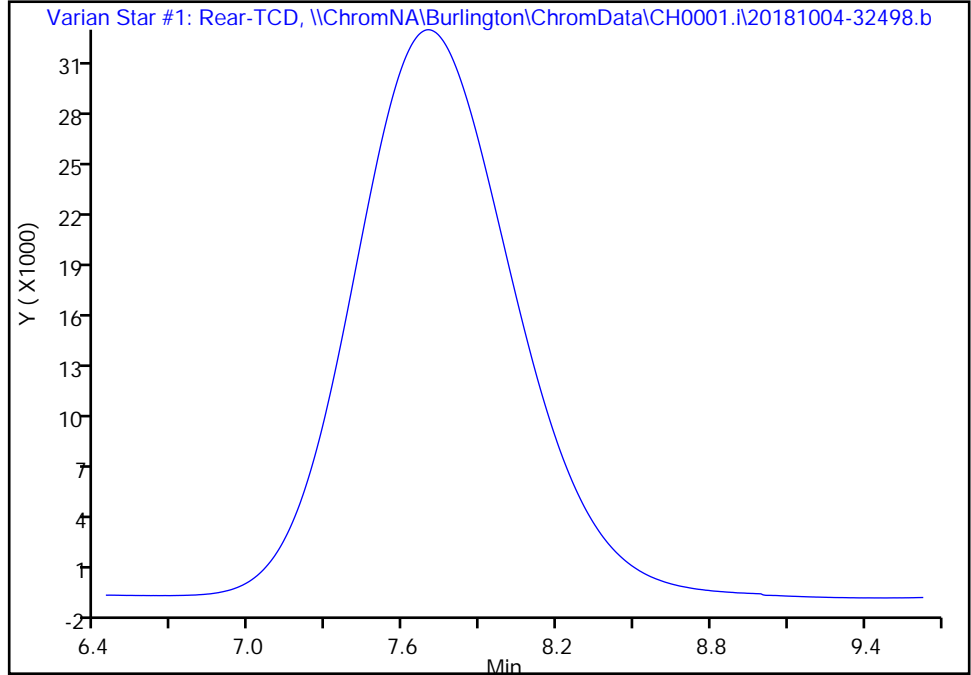
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Injection Date: 05-Oct-2018 00:32:20 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

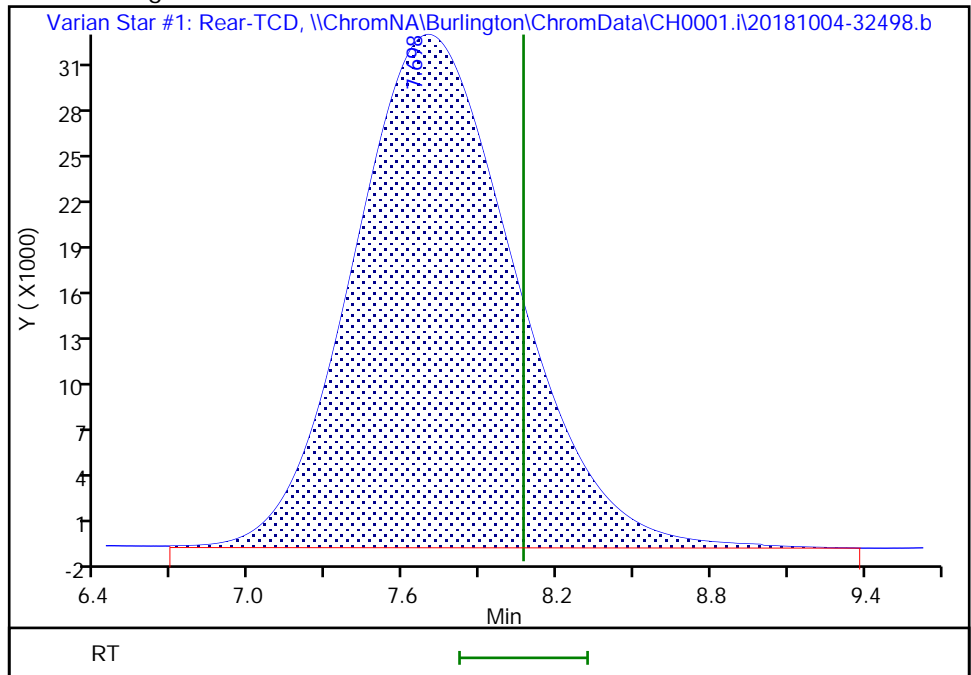
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.70  
Area: 1448505  
Amount: 35.361560  
Amount Units: % v/v



TestAmerica Burlington

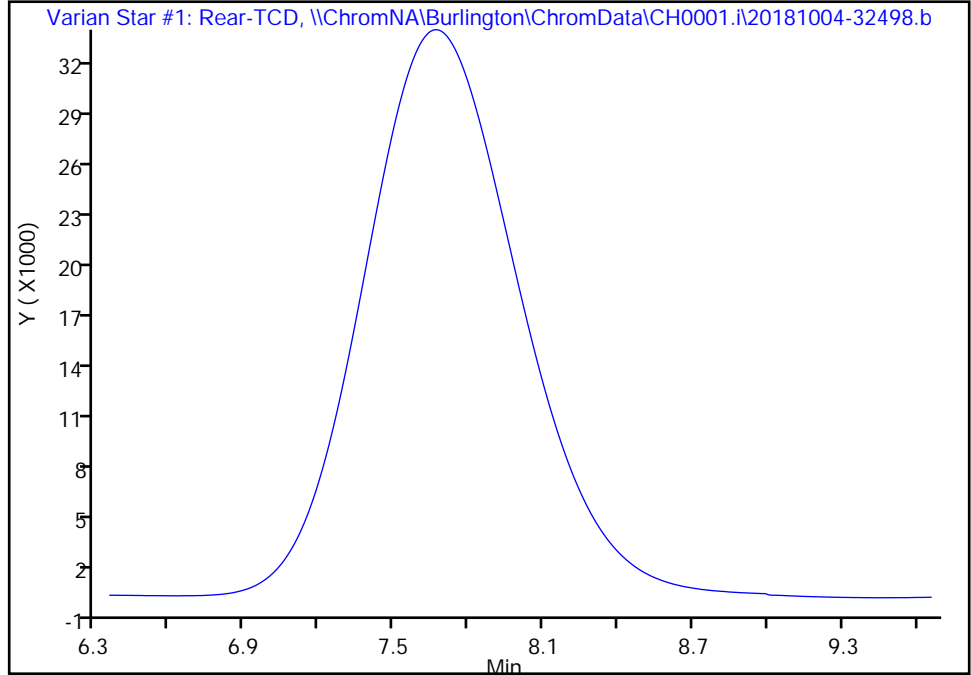
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Injection Date: 05-Oct-2018 00:49:01 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 16  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

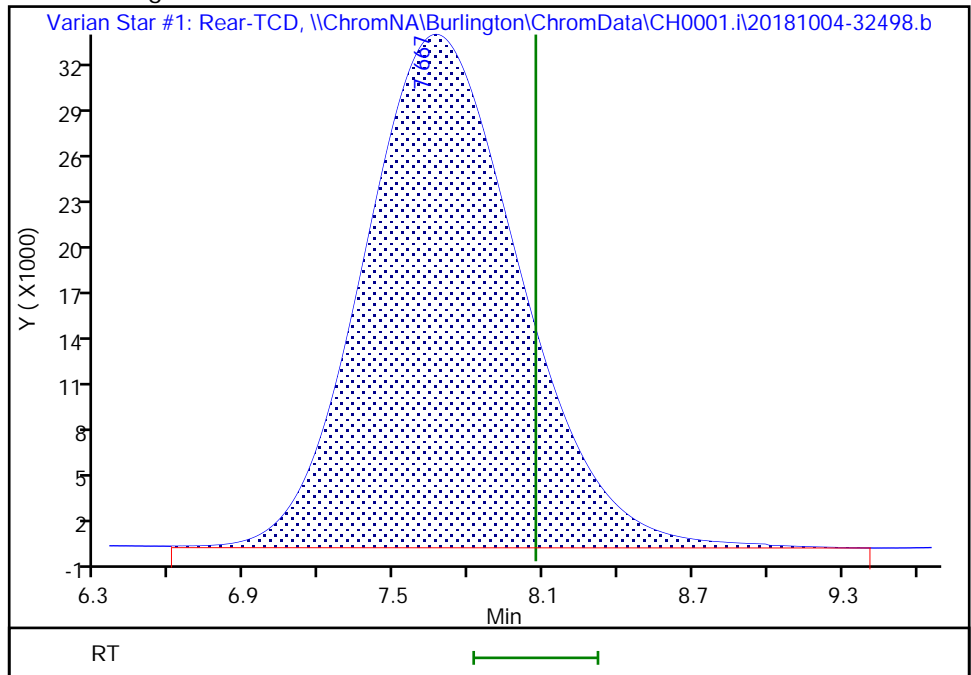
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.67  
Area: 1451586  
Amount: 35.436775  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 15:06:58

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

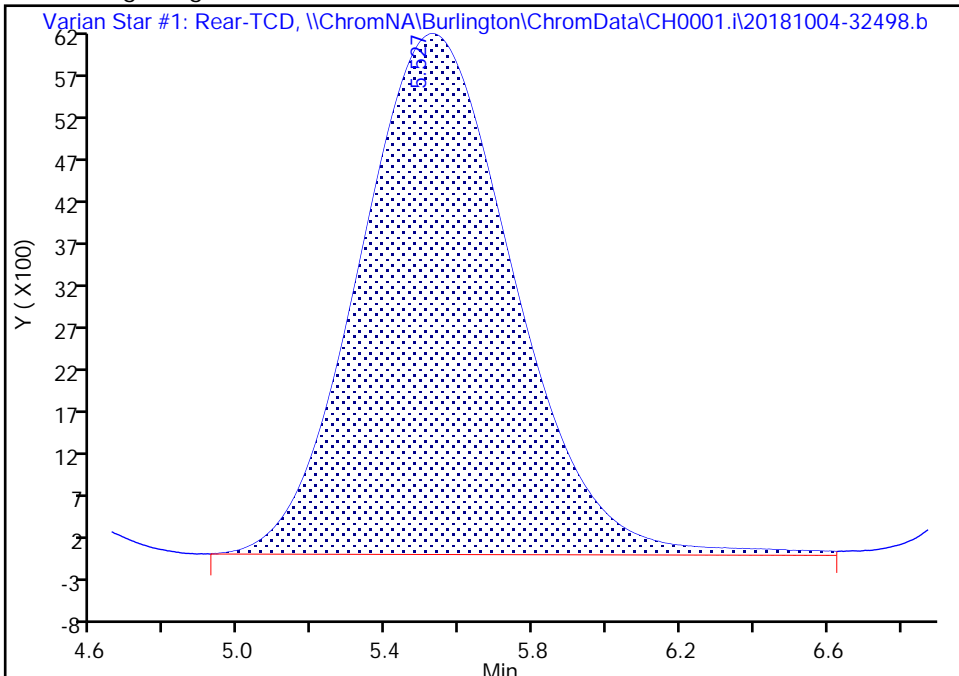
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Injection Date: 05-Oct-2018 00:49:01 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 16  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

Signal: 1

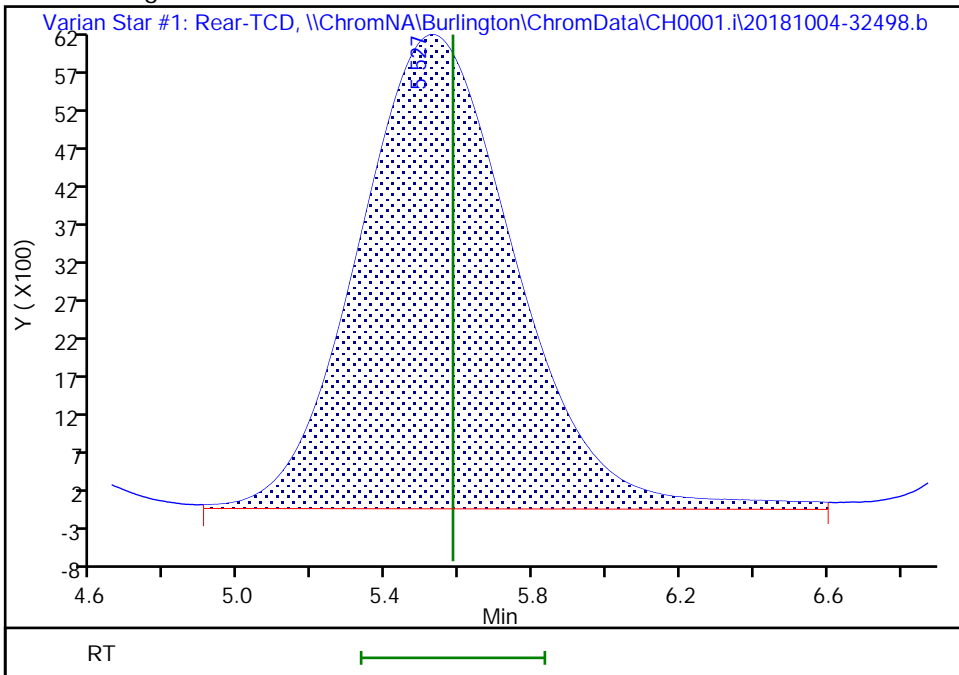
RT: 5.53  
Area: 179653  
Amount: 3.217835  
Amount Units: % v/v

Processing Integration Results



RT: 5.53  
Area: 184200  
Amount: 3.299278  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 15:06:52

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

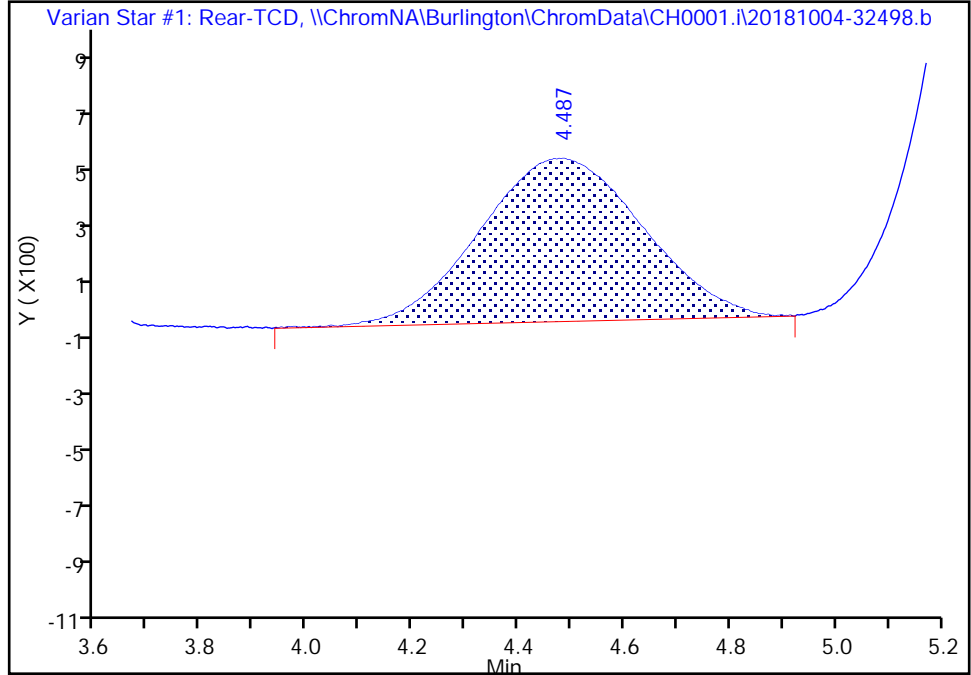
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-1b.d  
Injection Date: 05-Oct-2018 00:49:01 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 16  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

Signal: 1

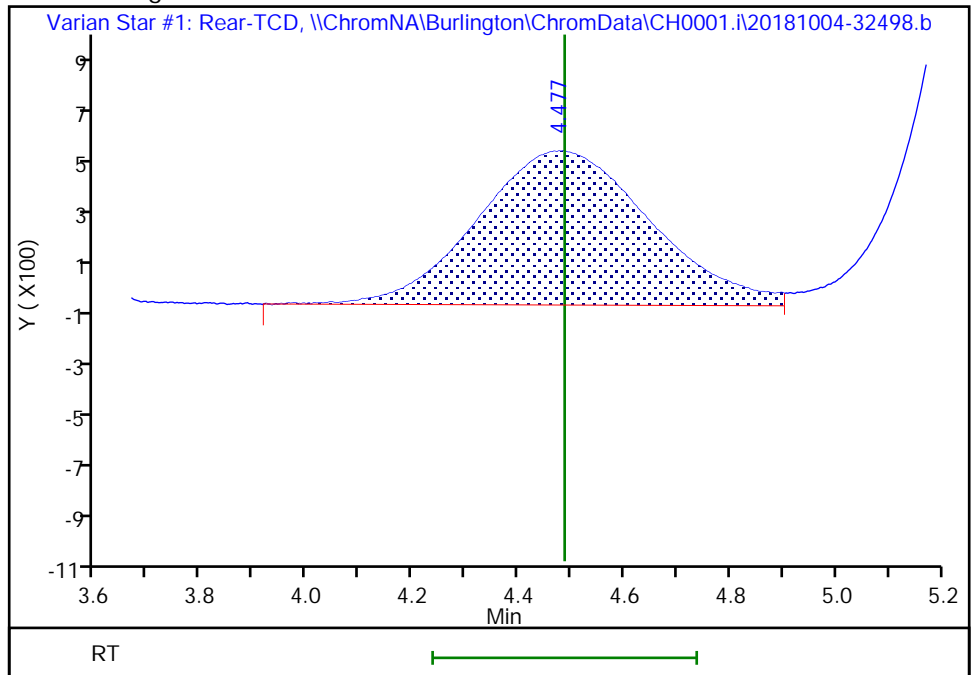
RT: 4.49  
Area: 12010  
Amount: 0.239082  
Amount Units: % v/v

Processing Integration Results



RT: 4.48  
Area: 13291  
Amount: 0.264583  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 15:06:46

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-2</u>	Lab Sample ID: <u>200-45482-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-2a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/24/2018 13:19</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 01:39</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2.12</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	43		0.11	0.11
74-82-8	Methane	47		0.085	0.085
7727-37-9	Nitrogen	15		1.1	1.1
7782-44-7	Oxygen	0.57		0.11	0.11

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-2a.d  
 Lims ID: 200-45482-A-2  
 Client ID: KTSG-COMP-2  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 01:39:54 ALS Bottle#: 0 Worklist Smp#: 17  
 Purge Vol: 2.000 mL Dil. Factor: 2.1200  
 Sample Info: 200-45482-A-2a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:26:58

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.898	1.894	0.004	903411	20.4	
2 Oxygen	4.522	4.487	0.035	13438	0.2675	
3 Nitrogen	5.590	5.582	0.008	399555	7.16	
4 Methane	7.785	8.069	-0.284	909094	22.2	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-2b.d  
 Lims ID: 200-45482-A-2  
 Client ID: KTSG-COMP-2  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 01:56:06 ALS Bottle#: 0 Worklist Smp#: 18  
 Purge Vol: 2.000 mL Dil. Factor: 2.1200  
 Sample Info: 200-45482-A-2b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:27:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.898	1.894	0.004	904789	20.4	
2 Oxygen	4.540	4.487	0.053	13346	0.2657	
3 Nitrogen	5.600	5.582	0.018	400566	7.17	
4 Methane	7.793	8.069	-0.276	914221	22.3	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-2a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-2b-134860-ai\_3c\_limits-1.txt

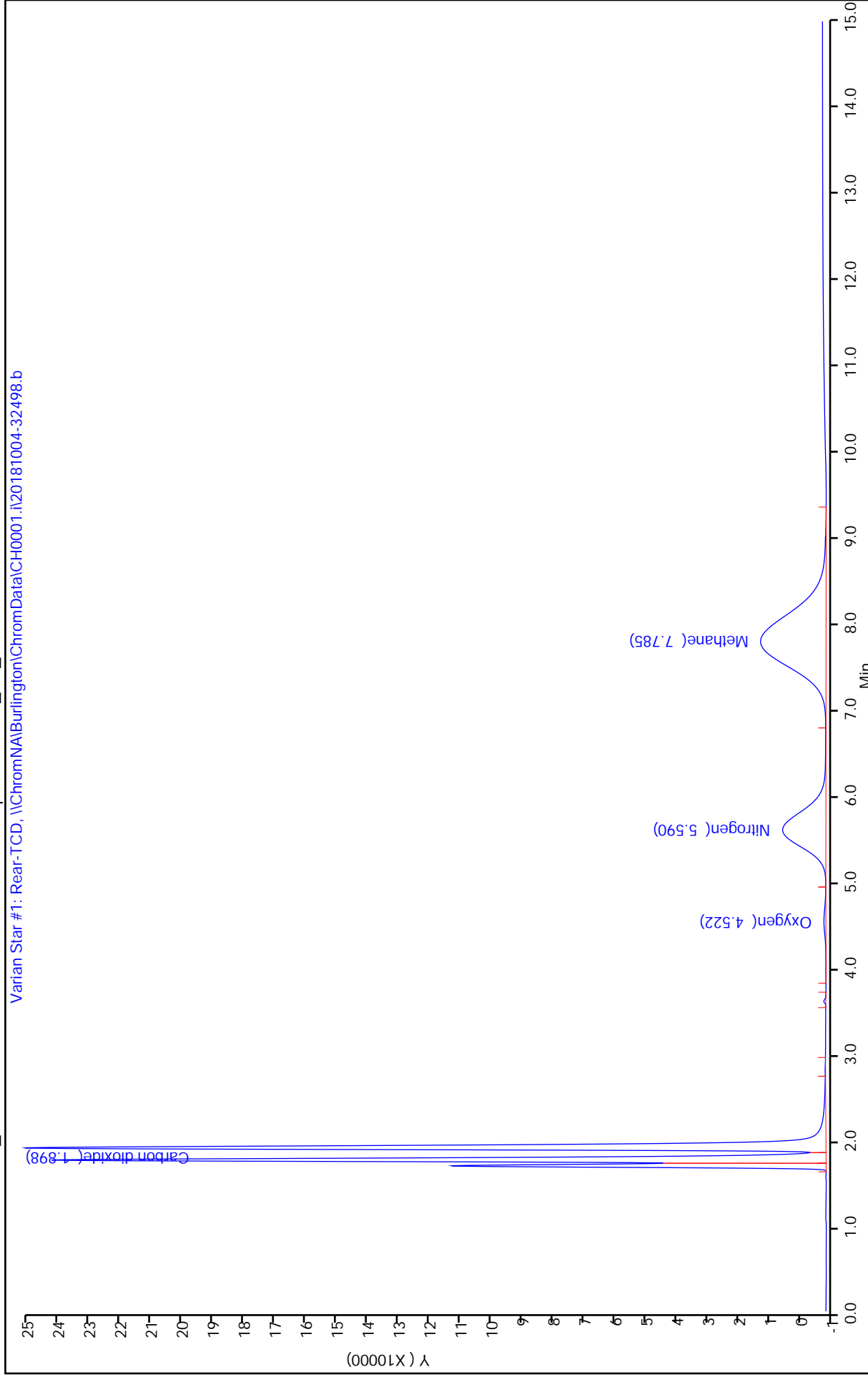
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	903411	904789	904100	0.08
Oxygen	13438	13346	13392	0.34
Nitrogen	399555	400566	400060.5	0.13
Methane	909094	914221	911657.5	0.28

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	20.35	20.38	20.37	0.08
Oxygen	0.27	0.27	0.27	0.34
Nitrogen	7.16	7.17	7.17	0.13
Methane	22.19	22.32	22.26	0.28

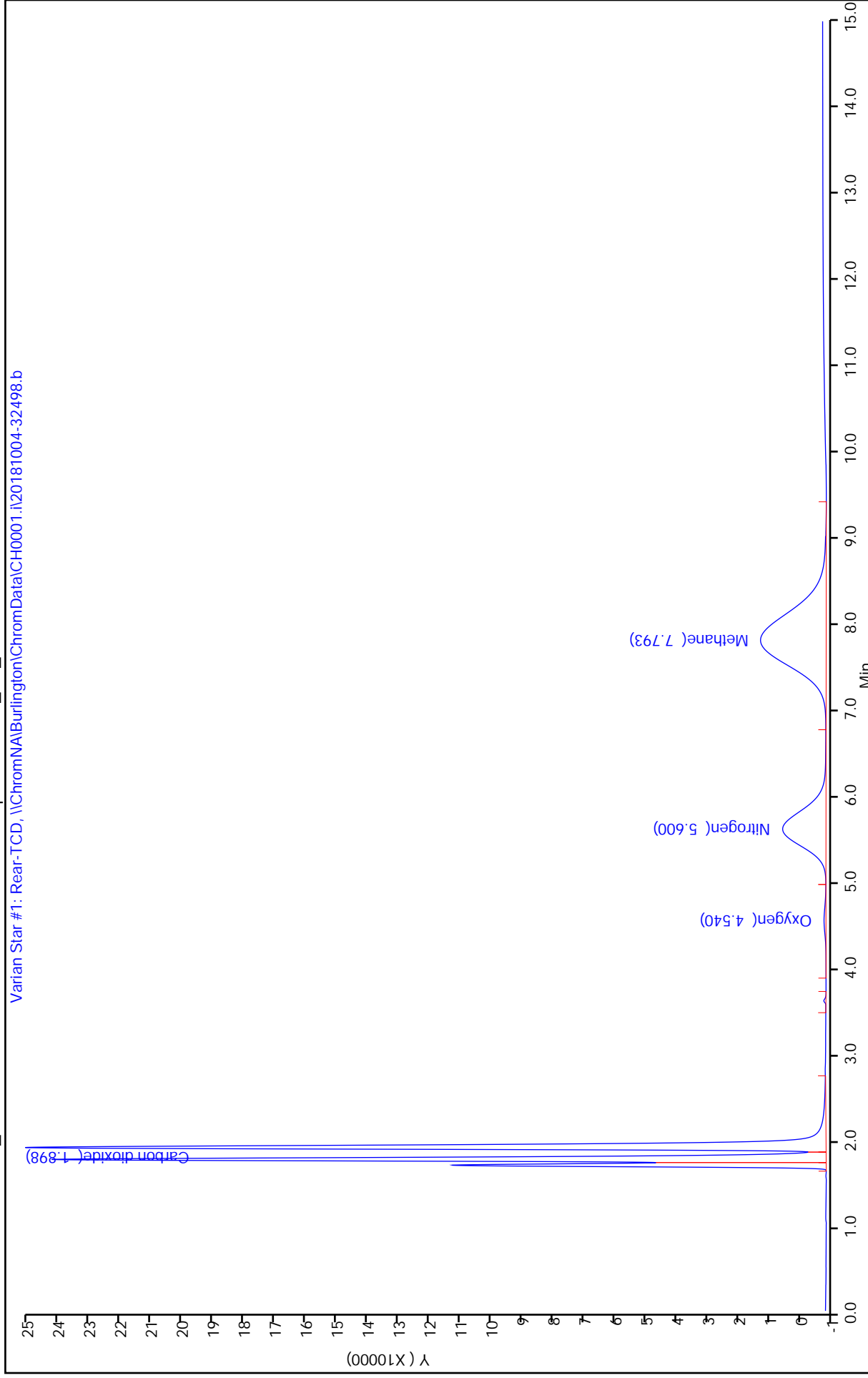
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-2a.d  
Injection Date: 05-Oct-2018 01:39:54 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2 Worklist Smp#: 17  
Client ID: KTSG-COMP-2 Dil. Factor: 2.1200 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-2b.d  
Injection Date: 05-Oct-2018 01:56:06 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2 Worklist Smp#: 18  
Client ID: KTSG-COMP-2 Dil. Factor: 2.1200 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i





TestAmerica Burlington

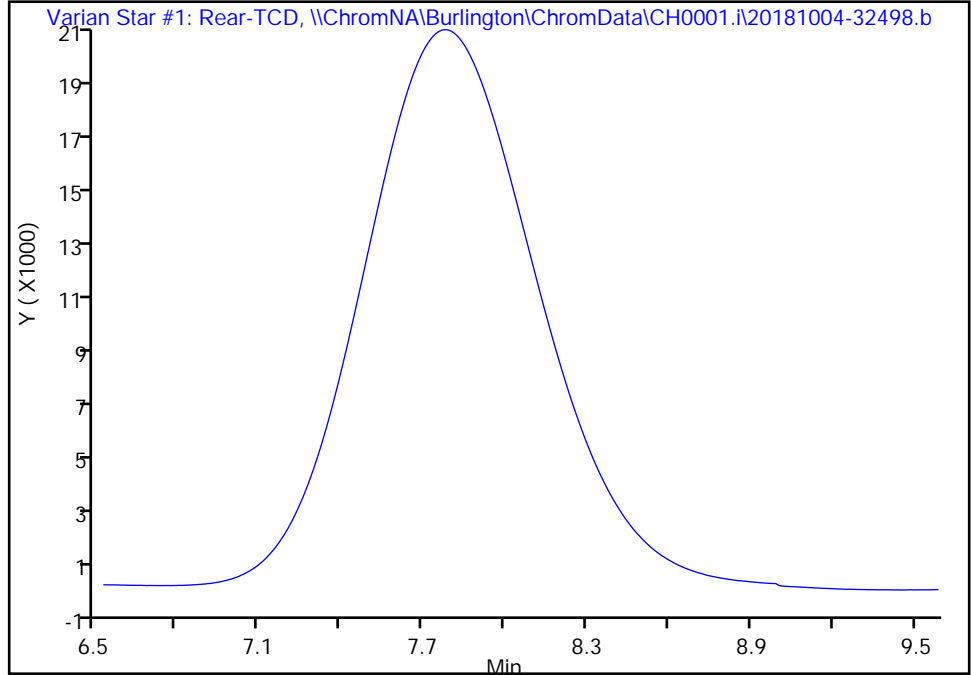
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Injection Date: 05-Oct-2018 01:39:54 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2  
Client ID: KTSG-COMP-2  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 17  
Purge Vol: 2.000 mL Dil. Factor: 2.1200  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

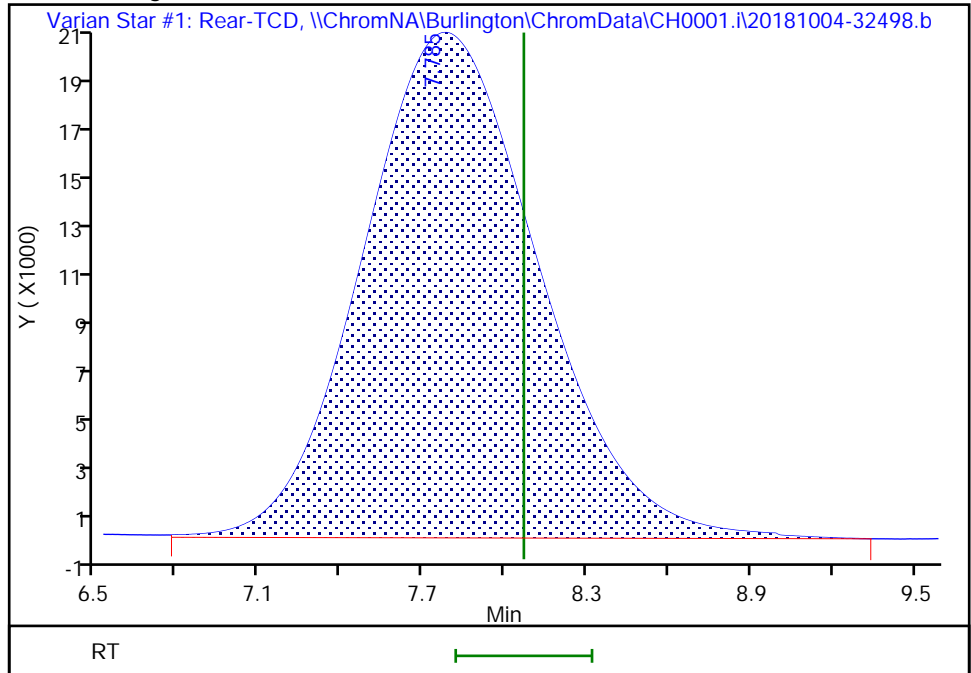
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.79  
Area: 909094  
Amount: 22.193214  
Amount Units: % v/v



TestAmerica Burlington

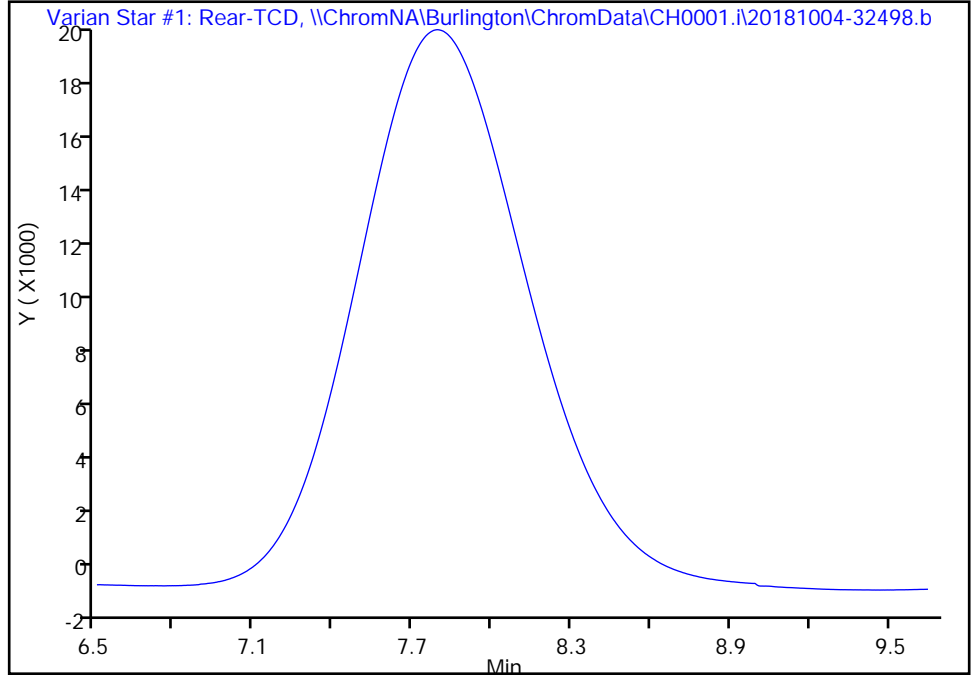
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-2b.d  
Injection Date: 05-Oct-2018 01:56:06 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2  
Client ID: KTSG-COMP-2  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 18  
Purge Vol: 2.000 mL Dil. Factor: 2.1200  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

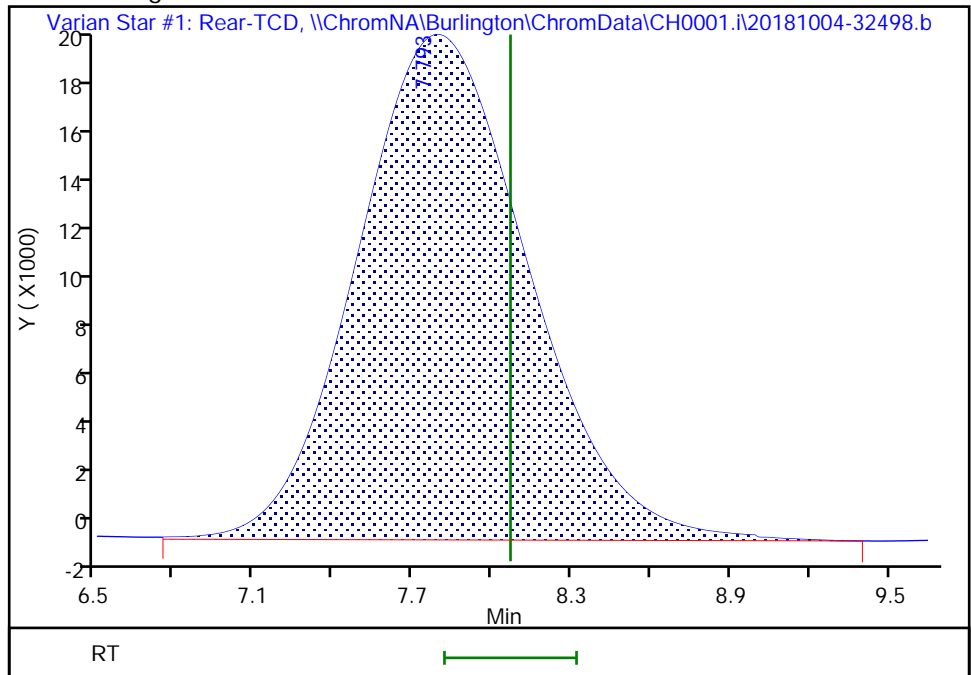
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.79  
Area: 914221  
Amount: 22.318377  
Amount Units: % v/v



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-3</u>	Lab Sample ID: <u>200-45482-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-3a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/24/2018 15:16</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 02:44</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.93</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	41		0.097	0.097
74-82-8	Methane	50		0.077	0.077
7727-37-9	Nitrogen	12		0.97	0.97
7782-44-7	Oxygen	0.69		0.097	0.097

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-3a.d  
 Lims ID: 200-45482-A-3  
 Client ID: KTSG-COMP-3  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 02:44:17 ALS Bottle#: 0 Worklist Smp#: 19  
 Purge Vol: 2.000 mL Dil. Factor: 1.9300  
 Sample Info: 200-45482-A-3a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:07:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:27:19

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.877	1.894	-0.017	936081	21.1	
2 Oxygen	4.450	4.487	-0.037	18432	0.3669	
3 Nitrogen	5.487	5.582	-0.095	336933	6.03	
4 Methane	7.617	8.069	-0.452	1059976	25.9	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-3b.d  
 Lims ID: 200-45482-A-3  
 Client ID: KTSG-COMP-3  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 03:00:27 ALS Bottle#: 0 Worklist Smp#: 20  
 Purge Vol: 2.000 mL Dil. Factor: 1.9300  
 Sample Info: 200-45482-A-3b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:07:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:27:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.877	1.894	-0.017	936675	21.1	
2 Oxygen	4.465	4.487	-0.022	17663	0.3516	
3 Nitrogen	5.498	5.582	-0.084	335077	6.00	
4 Methane	7.640	8.069	-0.429	1065898	26.0	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-3a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-3b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

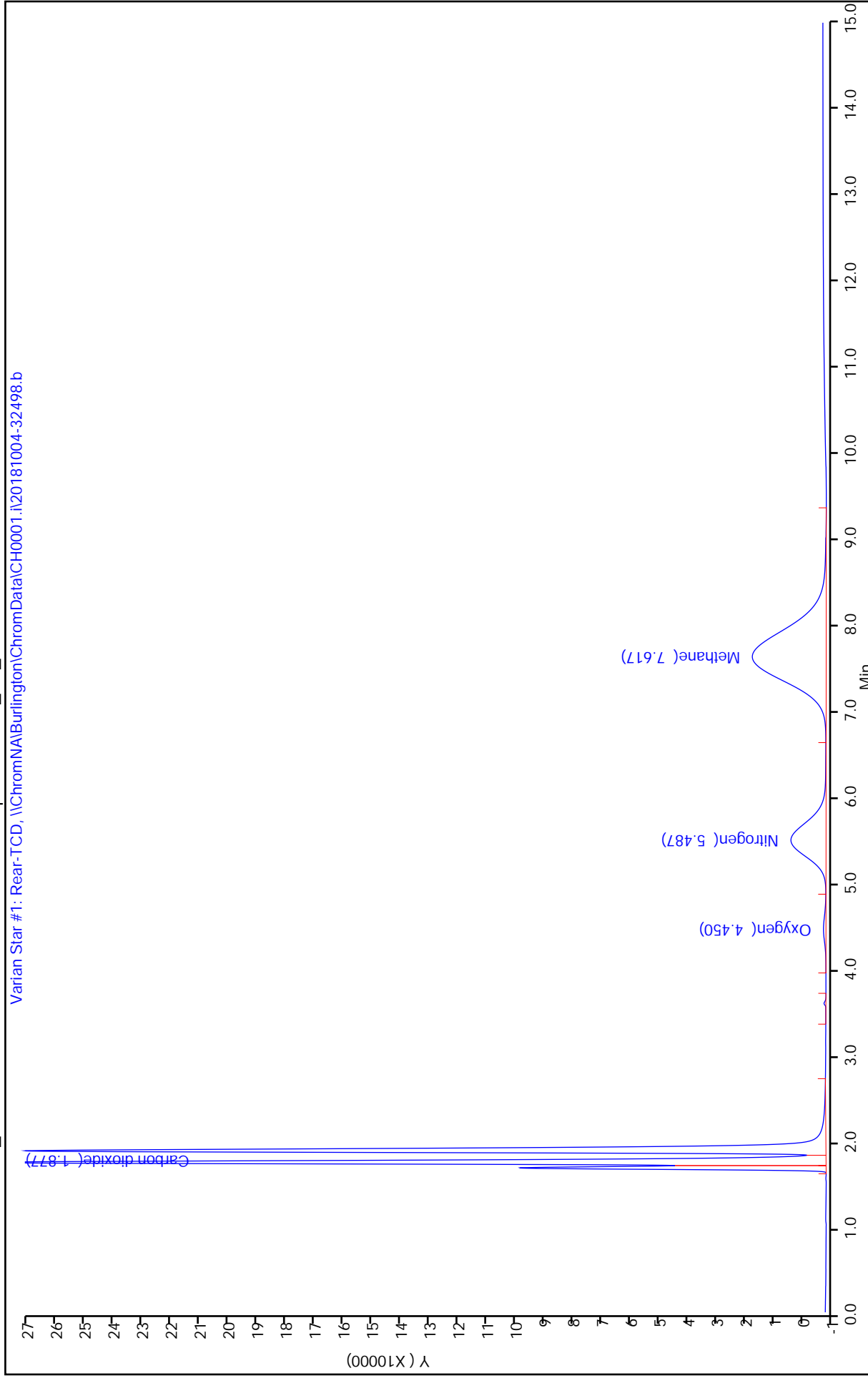
Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	936081	936675	936378	0.03
Oxygen	18432	17663	18047.5	2.13
Nitrogen	336933	335077	336005	0.28
Methane	1059976	1065898	1062937	0.28

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	21.09	21.1	21.1	0.03
Oxygen	0.37	0.35	0.36	2.13
Nitrogen	6.03	6	6.02	0.28
Methane	25.88	26.02	25.95	0.28



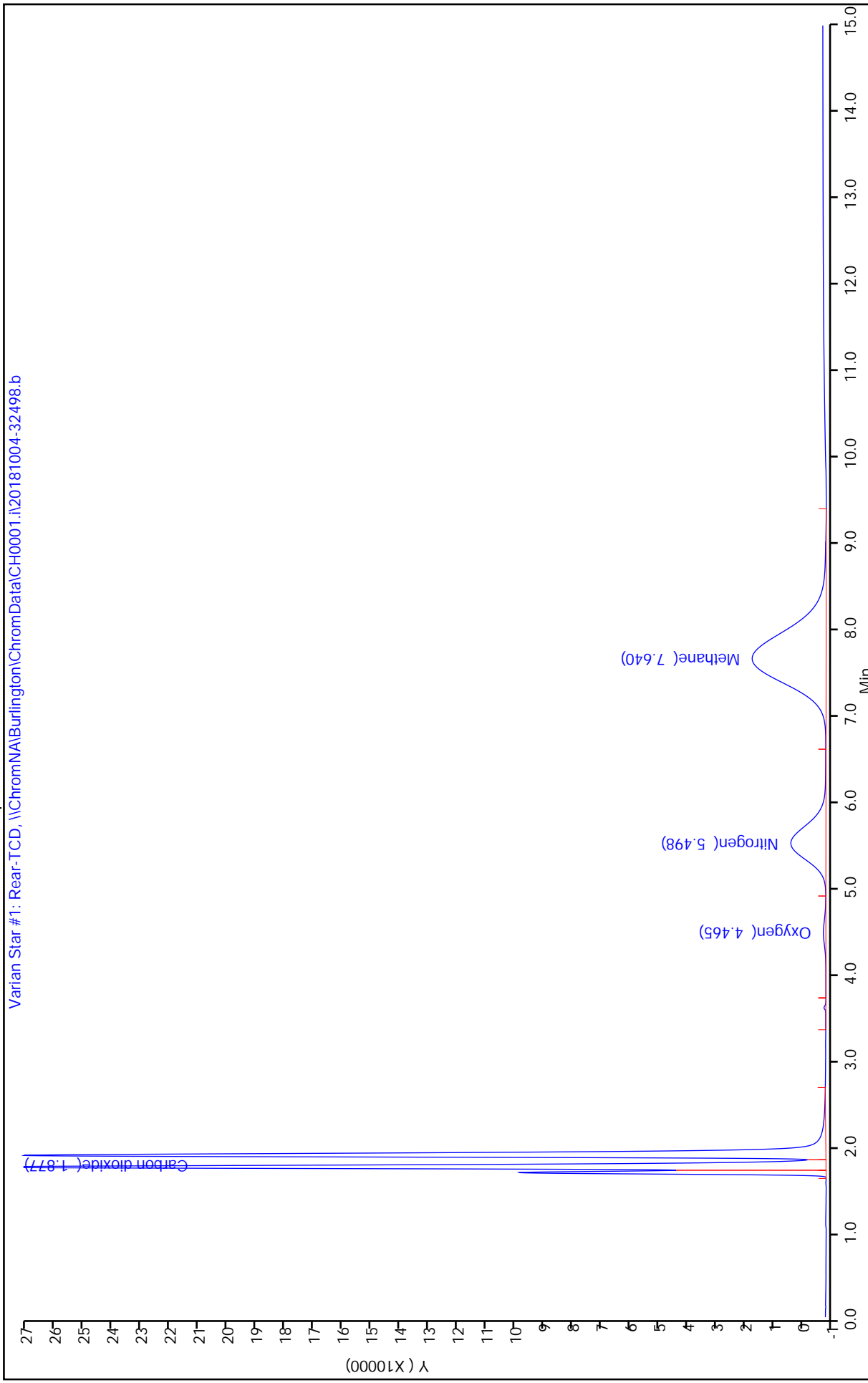
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-3a.d  
Injection Date: 05-Oct-2018 02:44:17 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-3 Lab Sample ID: 200-45482-3 Worklist Smp#: 19  
Client ID: KTSG-COMP-3 Dil. Factor: 1.9300 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-3b.d  
Injection Date: 05-Oct-2018 03:00:27 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-3 Lab Sample ID: 200-45482-3 Worklist Smp#: 20  
Client ID: KTSG-COMP-3 Dil. Factor: 1.9300 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

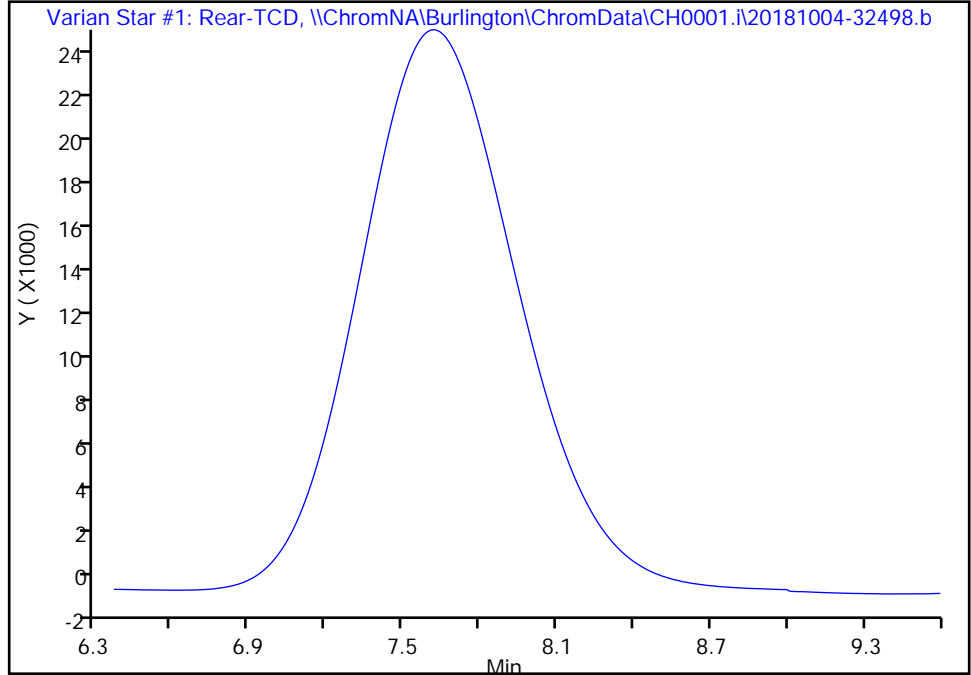
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Injection Date:	05-Oct-2018 02:44:17	Instrument ID:	CH0001.i		
Lims ID:	200-45482-A-3	Lab Sample ID:	200-45482-3		
Client ID:	KTSG-COMP-3				
Operator ID:	WRD	ALS Bottle#:	0	Worklist Smp#:	19
Purge Vol:	2.000 mL	Dil. Factor:	1.9300		
Method:	EPA3C_CH0001.i	Limit Group:	AI_3C_Limits		
Column:		Detector:	Varian Star #1: Rear-TCD		

4 Methane, CAS: 74-82-8

Signal: 1

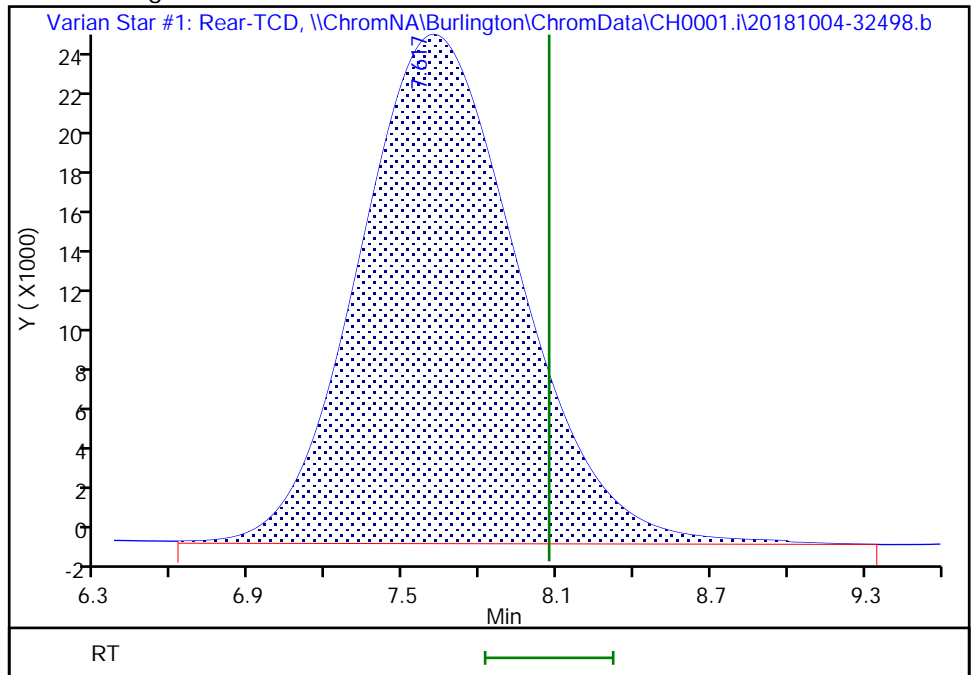
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.62  
Area: 1059976  
Amount: 25.876614  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 14:27:18  
Audit Action: Assigned Compound ID

Audit Reason:  
Page 78 of 565

TestAmerica Burlington

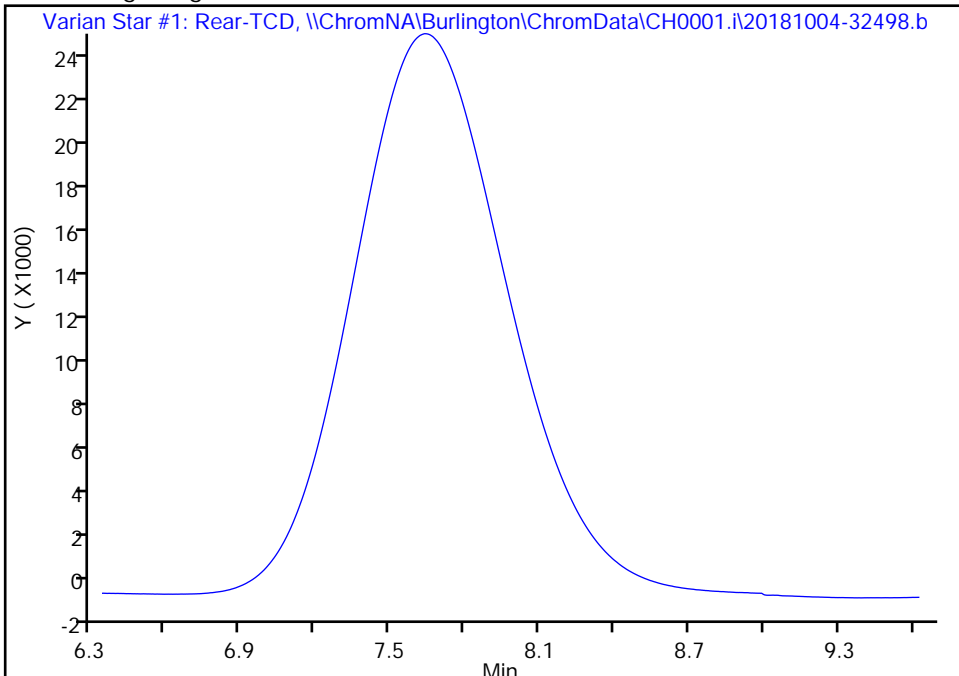
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-3b.d  
Injection Date: 05-Oct-2018 03:00:27 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-3 Lab Sample ID: 200-45482-3  
Client ID: KTSG-COMP-3  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 20  
Purge Vol: 2.000 mL Dil. Factor: 1.9300  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

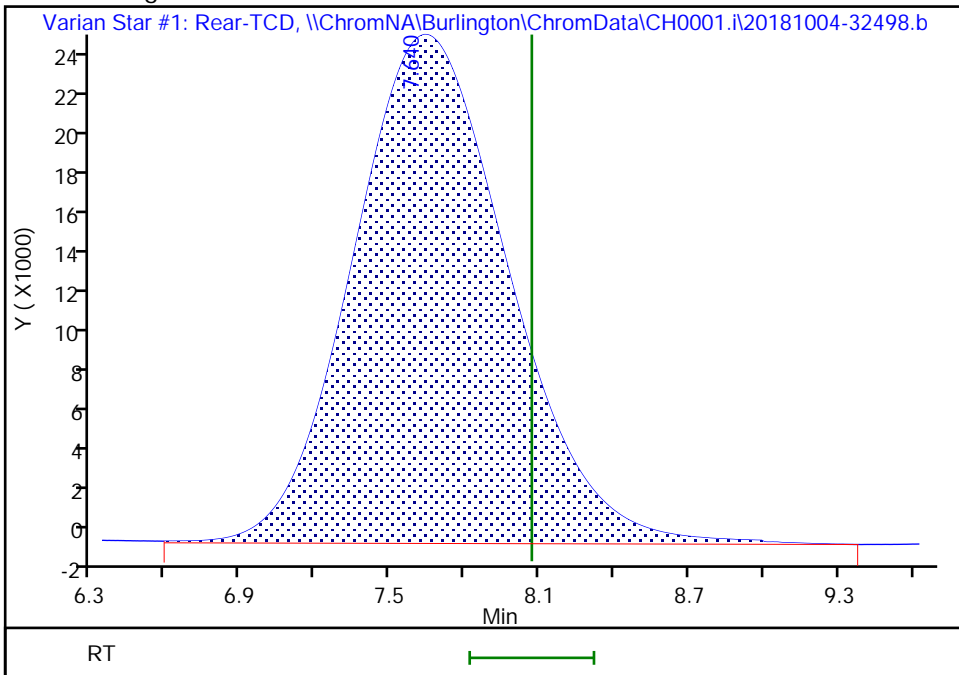
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.64  
Area: 1065898  
Amount: 26.021185  
Amount Units: % v/v



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-4</u>	Lab Sample ID: <u>200-45482-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-4a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/25/2018 09:14</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 08:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.88</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	41		0.094	0.094
74-82-8	Methane	40		0.075	0.075
7727-37-9	Nitrogen	22		0.94	0.94
7782-44-7	Oxygen	0.62		0.094	0.094

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-4a.d  
 Lims ID: 200-45482-A-4  
 Client ID: KTSG-COMP-4  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 08:11:22 ALS Bottle#: 0 Worklist Smp#: 21  
 Purge Vol: 2.000 mL Dil. Factor: 1.8800  
 Sample Info: 200-45482-A-4a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:27:38

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.893	1.894	-0.001	956948	21.6	
2 Oxygen	4.512	4.487	0.025	16985	0.3381	
3 Nitrogen	5.582	5.582	0.000	653367	11.7	
4 Methane	7.770	8.069	-0.299	868985	21.2	a

QC Flag Legend

Review Flags

a - User Assigned ID



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-4b.d  
 Lims ID: 200-45482-A-4  
 Client ID: KTSG-COMP-4  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 08:27:28 ALS Bottle#: 0 Worklist Smp#: 22  
 Purge Vol: 2.000 mL Dil. Factor: 1.8800  
 Sample Info: 200-45482-A-4b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:27:46

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.892	1.894	-0.002	963144	21.7	
2 Oxygen	4.515	4.487	0.028	16038	0.3193	
3 Nitrogen	5.568	5.582	-0.014	659502	11.8	
4 Methane	7.757	8.069	-0.312	882356	21.5	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-4a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-4b-134860-ai\_3c\_limits-1.txt

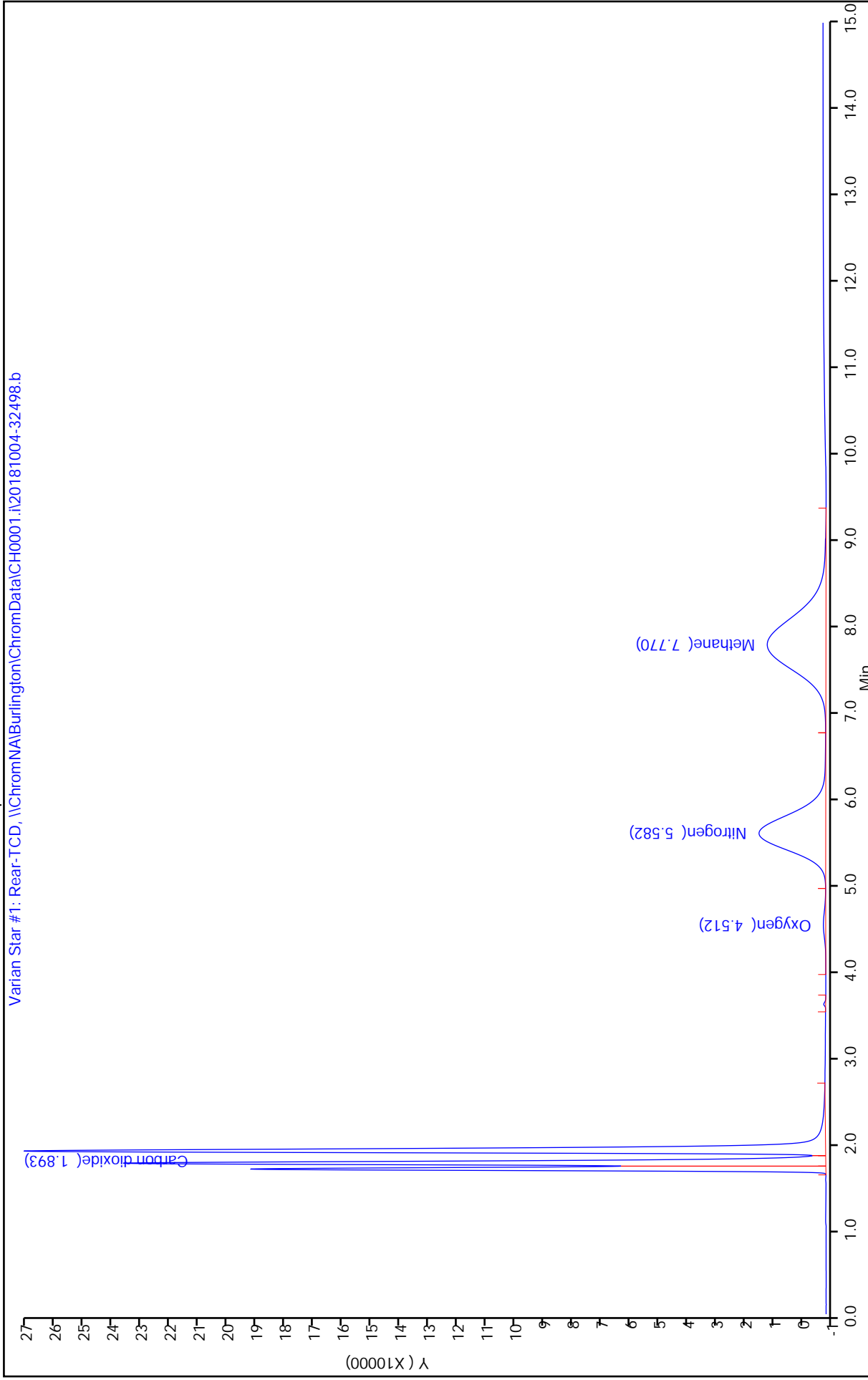
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	956948	963144	960046	0.32
Oxygen	16985	16038	16511.5	2.87
Nitrogen	653367	659502	656434.5	0.47
Methane	868985	882356	875670.5	0.76

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	21.56	21.7	21.63	0.32
Oxygen	0.34	0.32	0.33	2.87
Nitrogen	11.7	11.81	11.76	0.47
Methane	21.21	21.54	21.38	0.76

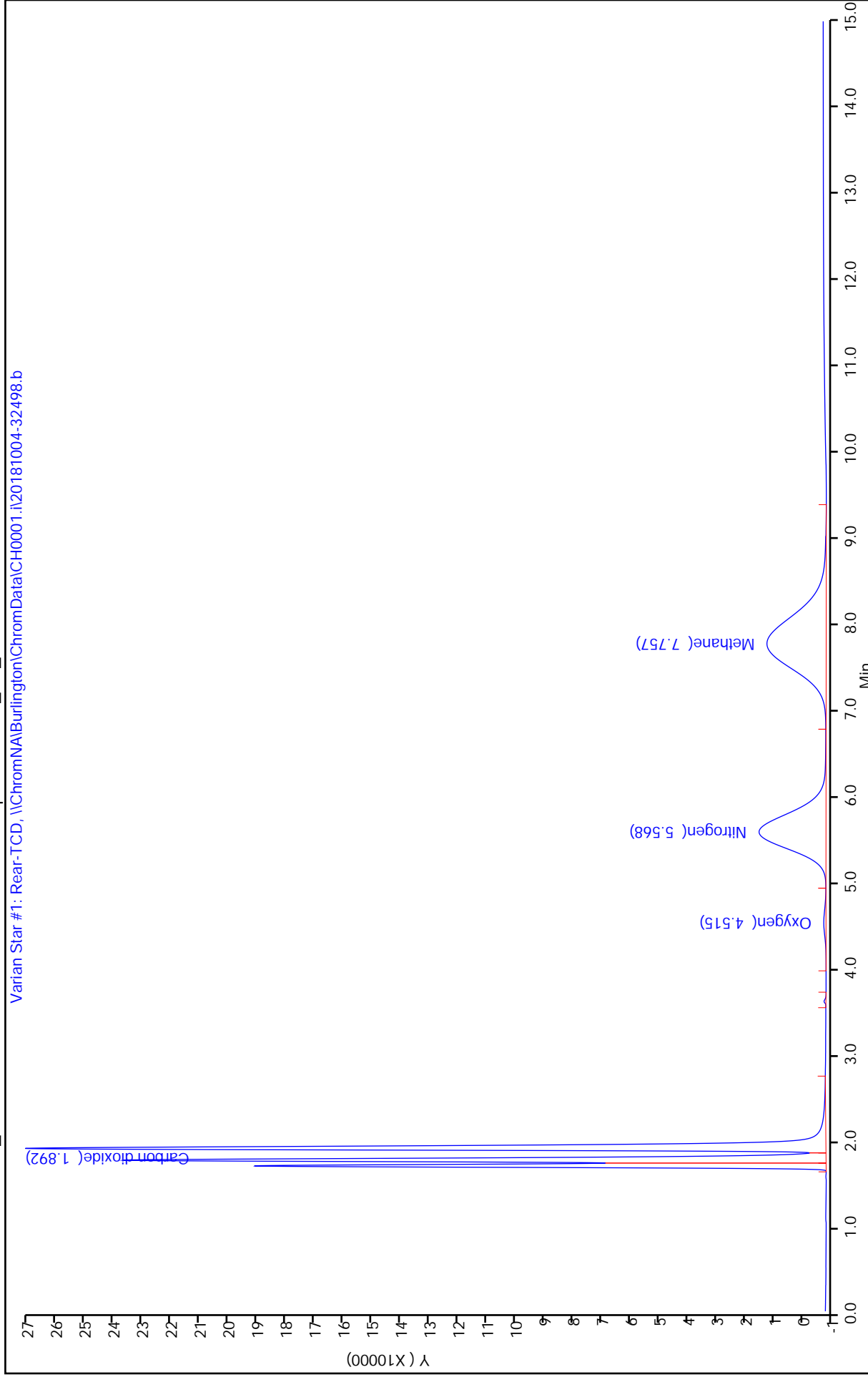
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-4a.d  
Injection Date: 05-Oct-2018 08:11:22 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4 Worklist Smp#: 21  
Client ID: KTSG-COMP-4 Dil. Factor: 1.8800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-4b.d  
Injection Date: 05-Oct-2018 08:27:28 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4 Worklist Smp#: 22  
Client ID: KTSG-COMP-4 Dil. Factor: 1.8800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

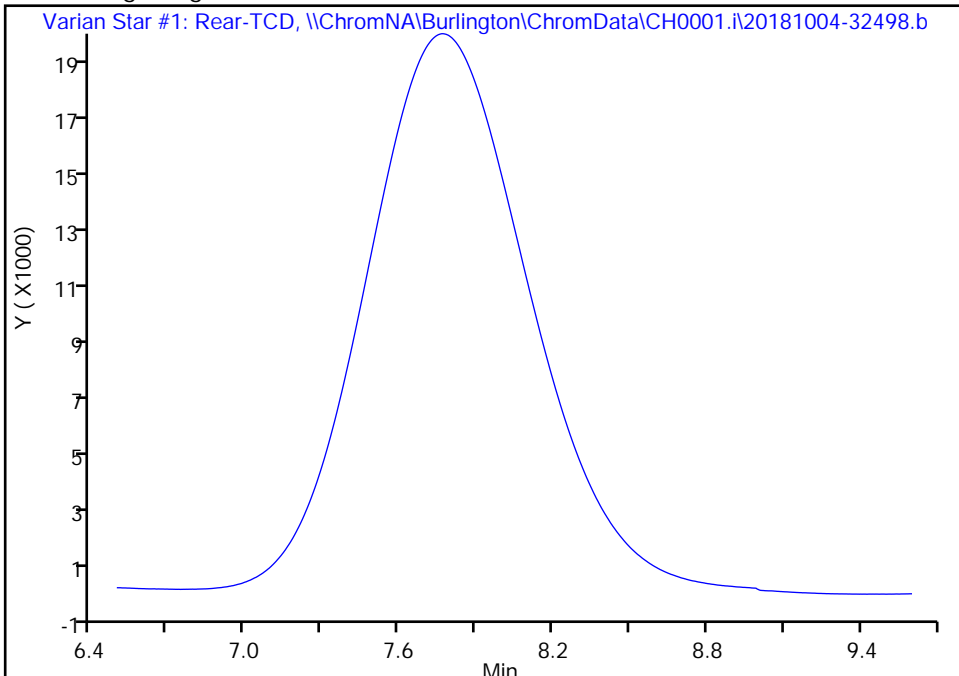
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Injection Date:	05-Oct-2018 08:11:22	Instrument ID:	CH0001.i		
Lims ID:	200-45482-A-4	Lab Sample ID:	200-45482-4		
Client ID:	KTSG-COMP-4				
Operator ID:	WRD	ALS Bottle#:	0	Worklist Smp#:	21
Purge Vol:	2.000 mL	Dil. Factor:	1.8800		
Method:	EPA3C_CH0001.i	Limit Group:	AI_3C_Limits		
Column:		Detector:	Varian Star #1: Rear-TCD		

4 Methane, CAS: 74-82-8

Signal: 1

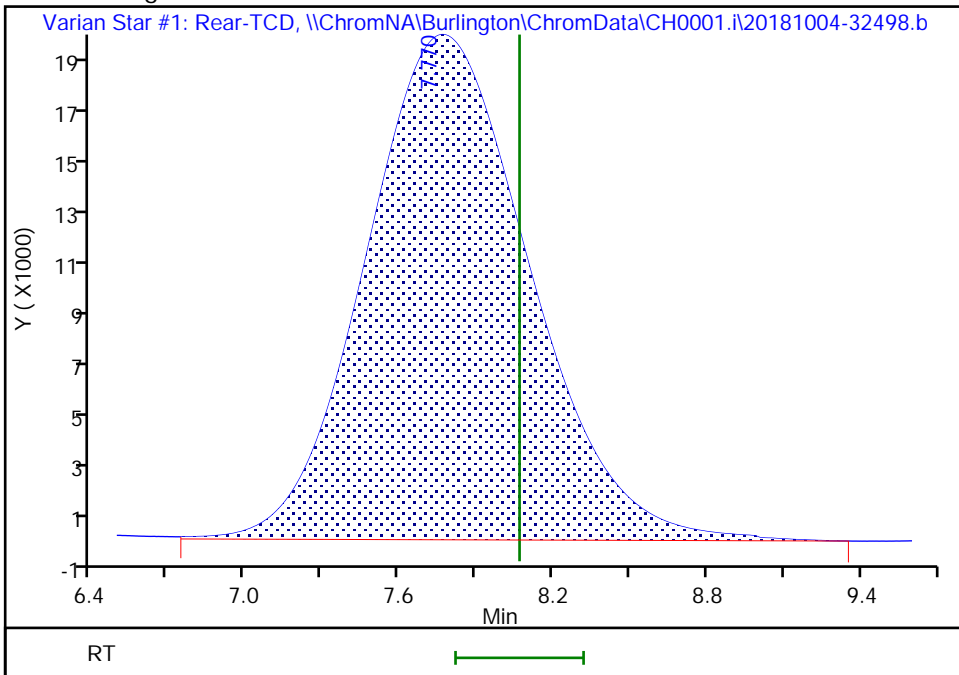
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.77  
Area: 868985  
Amount: 21.214055  
Amount Units: % v/v



TestAmerica Burlington

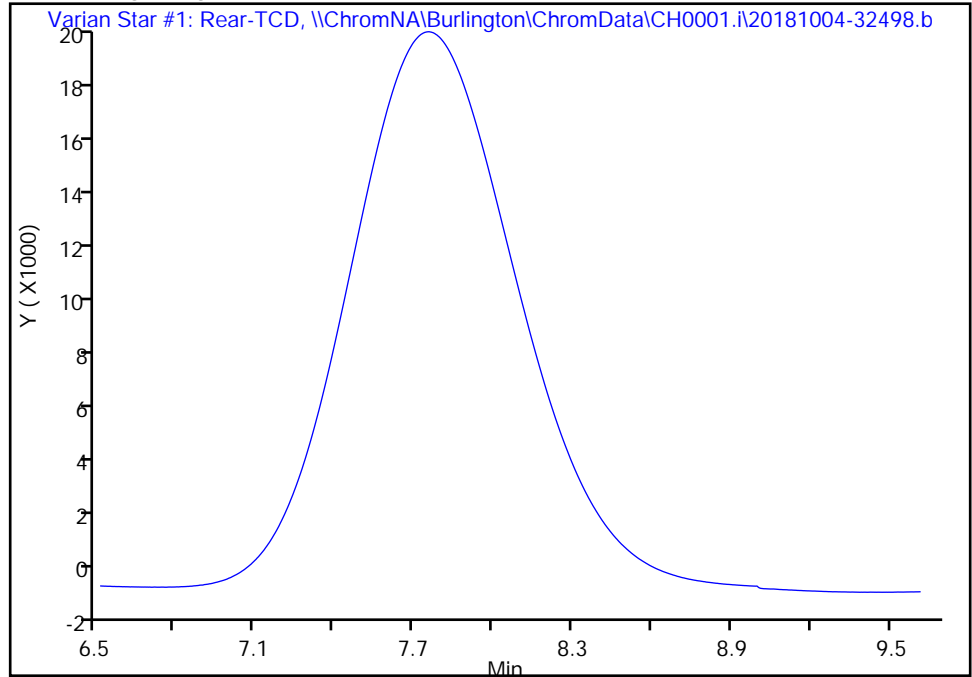
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-4b.d  
Injection Date: 05-Oct-2018 08:27:28 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4  
Client ID: KTSG-COMP-4  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 22  
Purge Vol: 2.000 mL Dil. Factor: 1.8800  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

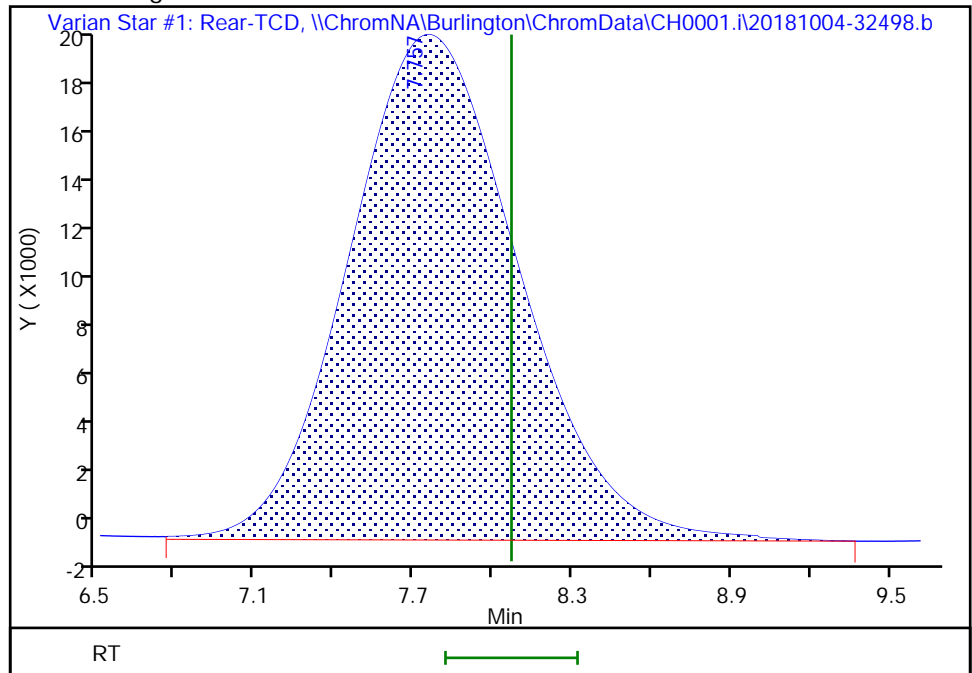
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.76  
Area: 882356  
Amount: 21.540474  
Amount Units: % v/v





FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-5</u>	Lab Sample ID: <u>200-45482-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-5a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/25/2018 11:08</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 09:16</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.89</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	41		0.095	0.095
74-82-8	Methane	54		0.076	0.076
7727-37-9	Nitrogen	8.6		0.95	0.95
7782-44-7	Oxygen	0.84		0.095	0.095

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-5a.d  
 Lims ID: 200-45482-A-5  
 Client ID: KTSG-COMP-5  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 09:16:26 ALS Bottle#: 0 Worklist Smp#: 23  
 Purge Vol: 2.000 mL Dil. Factor: 1.8900  
 Sample Info: 200-45482-A-5a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 06-Oct-2018 10:37:09

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.888	1.894	-0.006	961726	21.7	
2 Oxygen	4.492	4.487	0.005	22489	0.4477	
3 Nitrogen	5.530	5.582	-0.052	255209	4.57	
4 Methane	7.665	8.069	-0.404	1167787	28.5	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-5b.d  
 Lims ID: 200-45482-A-5  
 Client ID: KTSG-COMP-5  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 09:32:30 ALS Bottle#: 0 Worklist Smp#: 24  
 Purge Vol: 2.000 mL Dil. Factor: 1.8900  
 Sample Info: 200-45482-A-5b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:28:07

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.875	1.894	-0.019	942996	21.2	
2 Oxygen	4.460	4.487	-0.027	22328	0.4445	
3 Nitrogen	5.487	5.582	-0.095	253850	4.55	
4 Methane	7.618	8.069	-0.451	1164007	28.4	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

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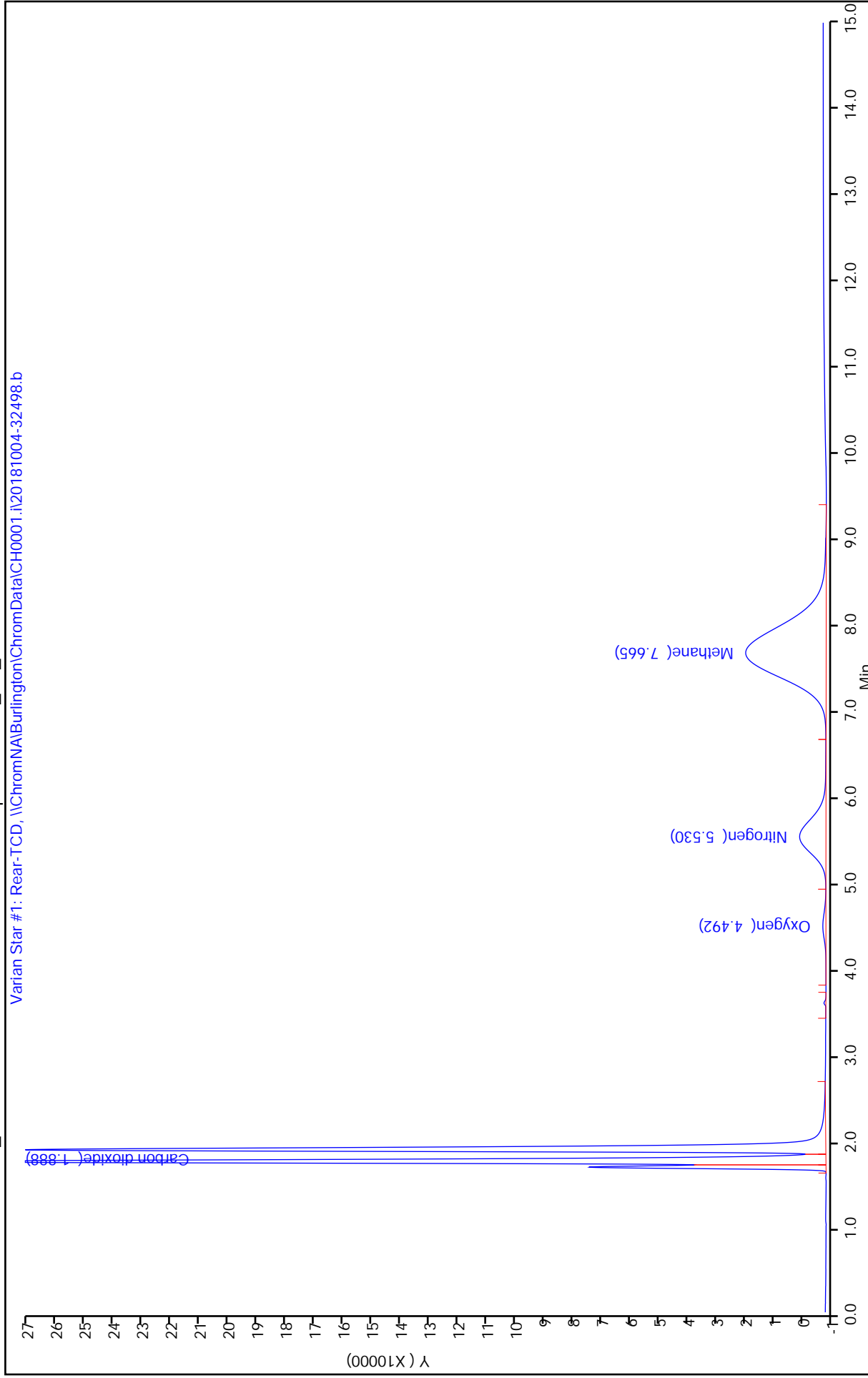
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	961726	942996	952361	0.98
Oxygen	22489	22328	22408.5	0.36
Nitrogen	255209	253850	254529.5	0.27
Methane	1167787	1164007	1165897	0.16

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	21.67	21.25	21.46	0.98
Oxygen	0.45	0.44	0.45	0.36
Nitrogen	4.57	4.55	4.56	0.27
Methane	28.51	28.42	28.46	0.16

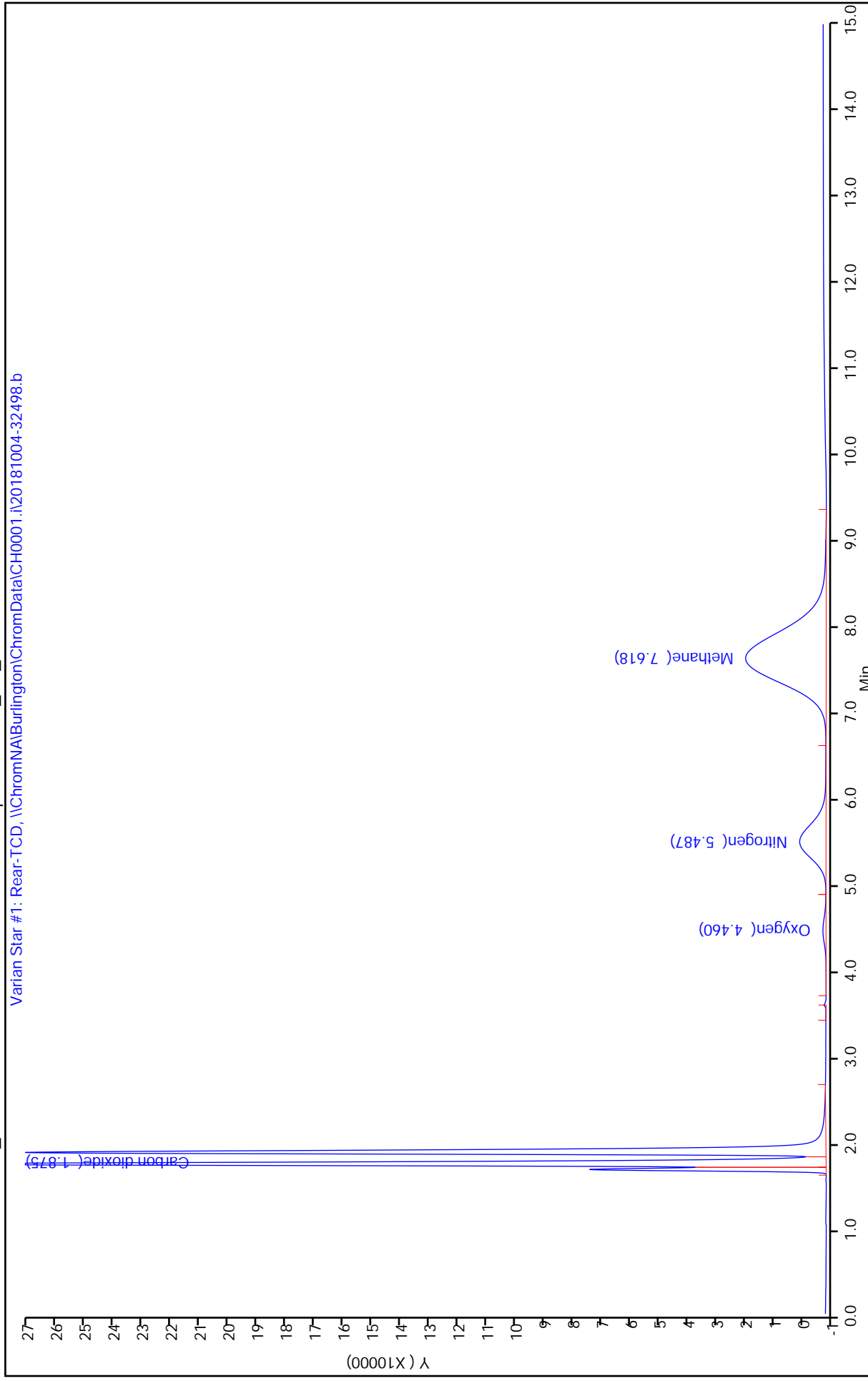
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-5a.d  
Injection Date: 05-Oct-2018 09:16:26 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5 Worklist Smp#: 23  
Client ID: KTSG-COMP-5 Dil. Factor: 1.8900 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-5b.d  
Injection Date: 05-Oct-2018 09:32:30 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5 Worklist Smp#: 24  
Client ID: KTSG-COMP-5 Dil. Factor: 1.8900 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i





TestAmerica Burlington

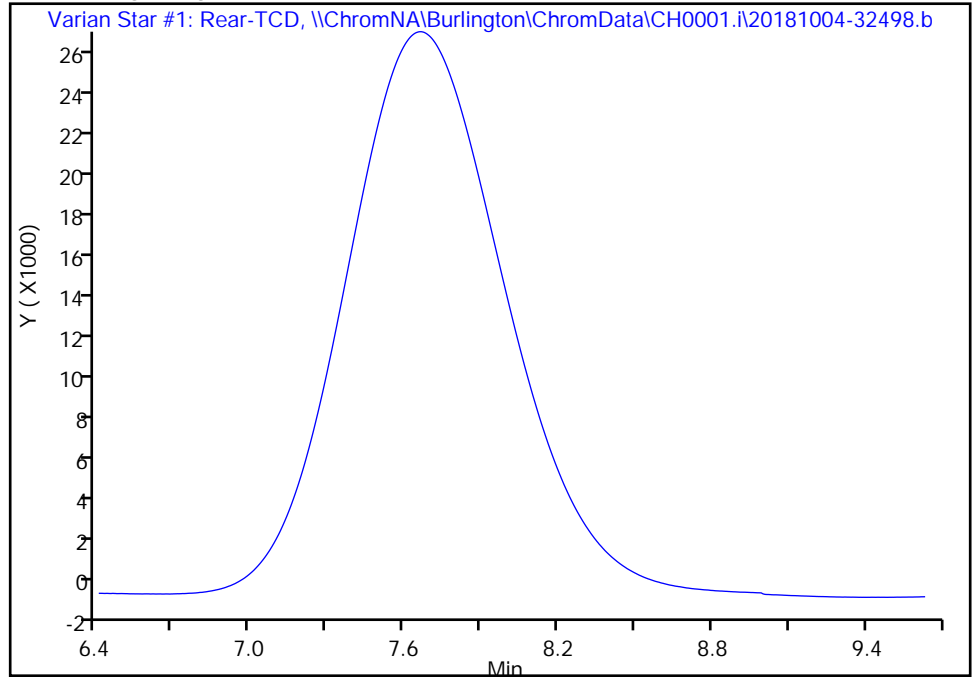
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-5a.d  
Injection Date: 05-Oct-2018 09:16:26 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5  
Client ID: KTSG-COMP-5  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 23  
Purge Vol: 2.000 mL Dil. Factor: 1.8900  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

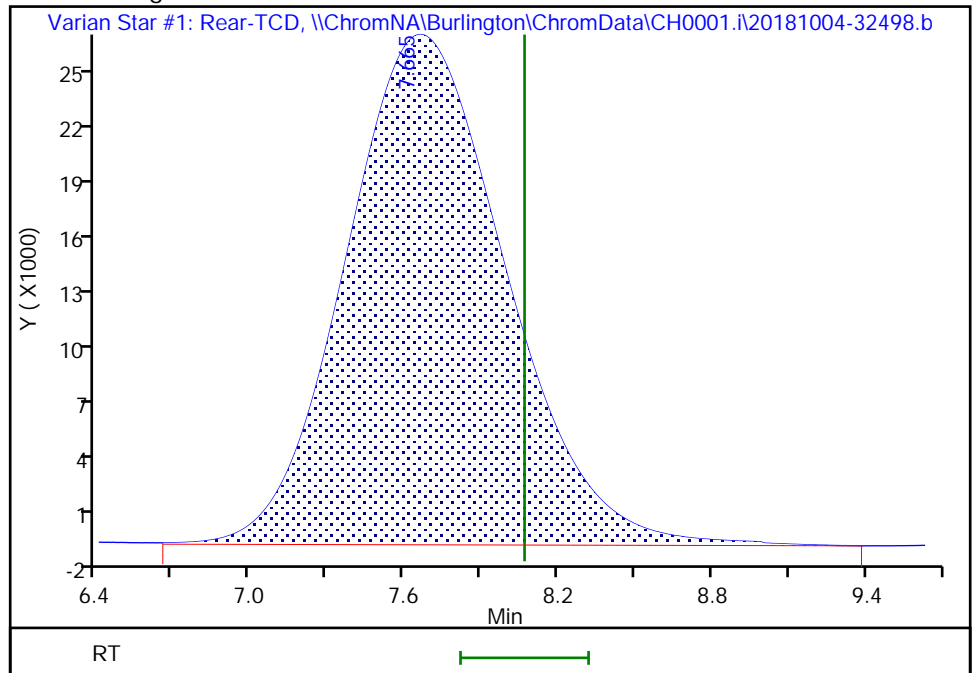
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.67  
Area: 1167787  
Amount: 28.508545  
Amount Units: % v/v



TestAmerica Burlington

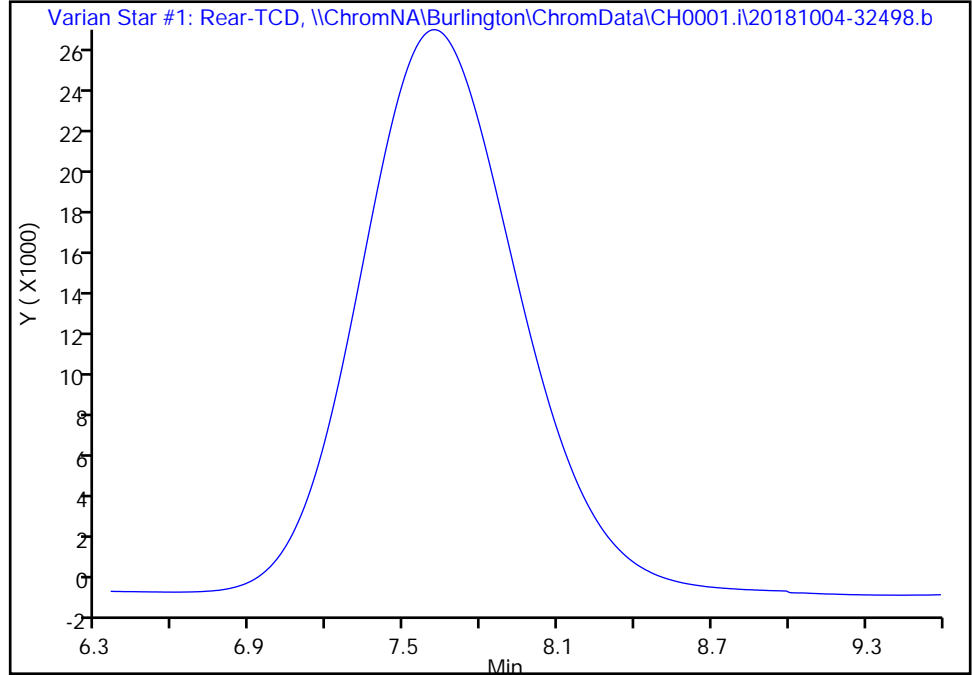
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-5b.d  
Injection Date: 05-Oct-2018 09:32:30 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5  
Client ID: KTSG-COMP-5  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 24  
Purge Vol: 2.000 mL Dil. Factor: 1.8900  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

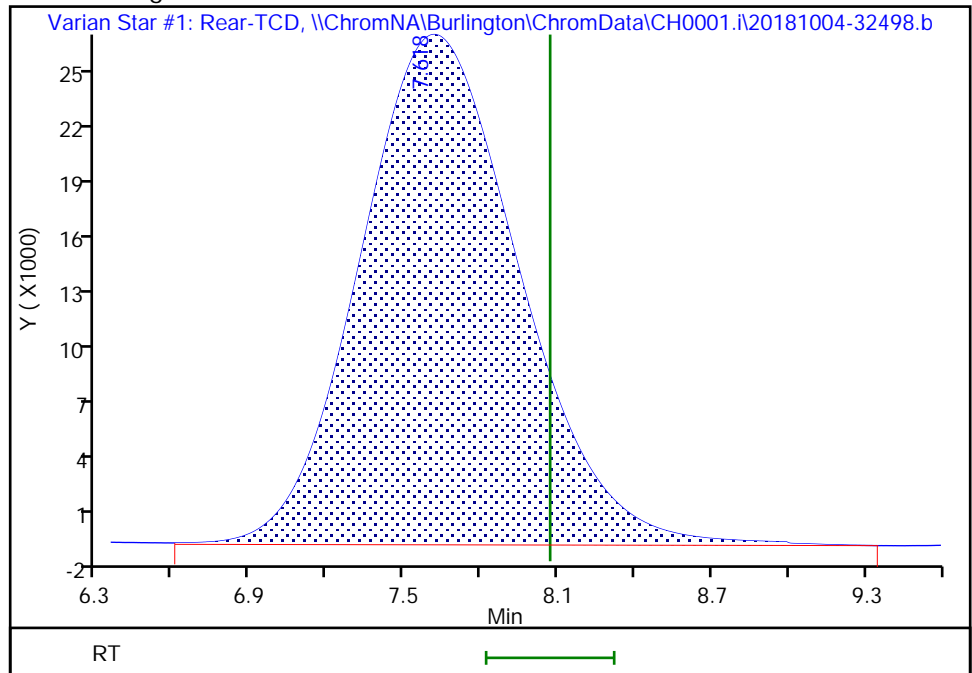
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.62  
Area: 1164007  
Amount: 28.416266  
Amount Units: % v/v



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-6</u>	Lab Sample ID: <u>200-45482-6</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-6a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/25/2018 13:55</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 10:21</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.91</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	41		0.096	0.096
74-82-8	Methane	58		0.076	0.076
7727-37-9	Nitrogen	6.5		0.96	0.96
7782-44-7	Oxygen	0.35		0.096	0.096

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-6a.d  
 Lims ID: 200-45482-A-6  
 Client ID: KTSG-COMP-6  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 10:21:02 ALS Bottle#: 0 Worklist Smp#: 25  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-6a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:07:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:28:20

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.888	1.894	-0.006	949538	21.4	
2 Oxygen	4.510	4.487	0.023	9350	0.1861	
3 Nitrogen	5.558	5.582	-0.024	189658	3.40	
4 Methane	7.718	8.069	-0.351	1239762	30.3	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-6b.d  
 Lims ID: 200-45482-A-6  
 Client ID: KTSG-COMP-6  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 10:37:06 ALS Bottle#: 0 Worklist Smp#: 26  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-6b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:07:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:28:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.892	1.894	-0.002	952620	21.5	
2 Oxygen	4.513	4.487	0.026	8868	0.1765	
3 Nitrogen	5.572	5.582	-0.010	189905	3.40	
4 Methane	7.737	8.069	-0.332	1246755	30.4	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-6a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-6b-134860-ai\_3c\_limits-1.txt

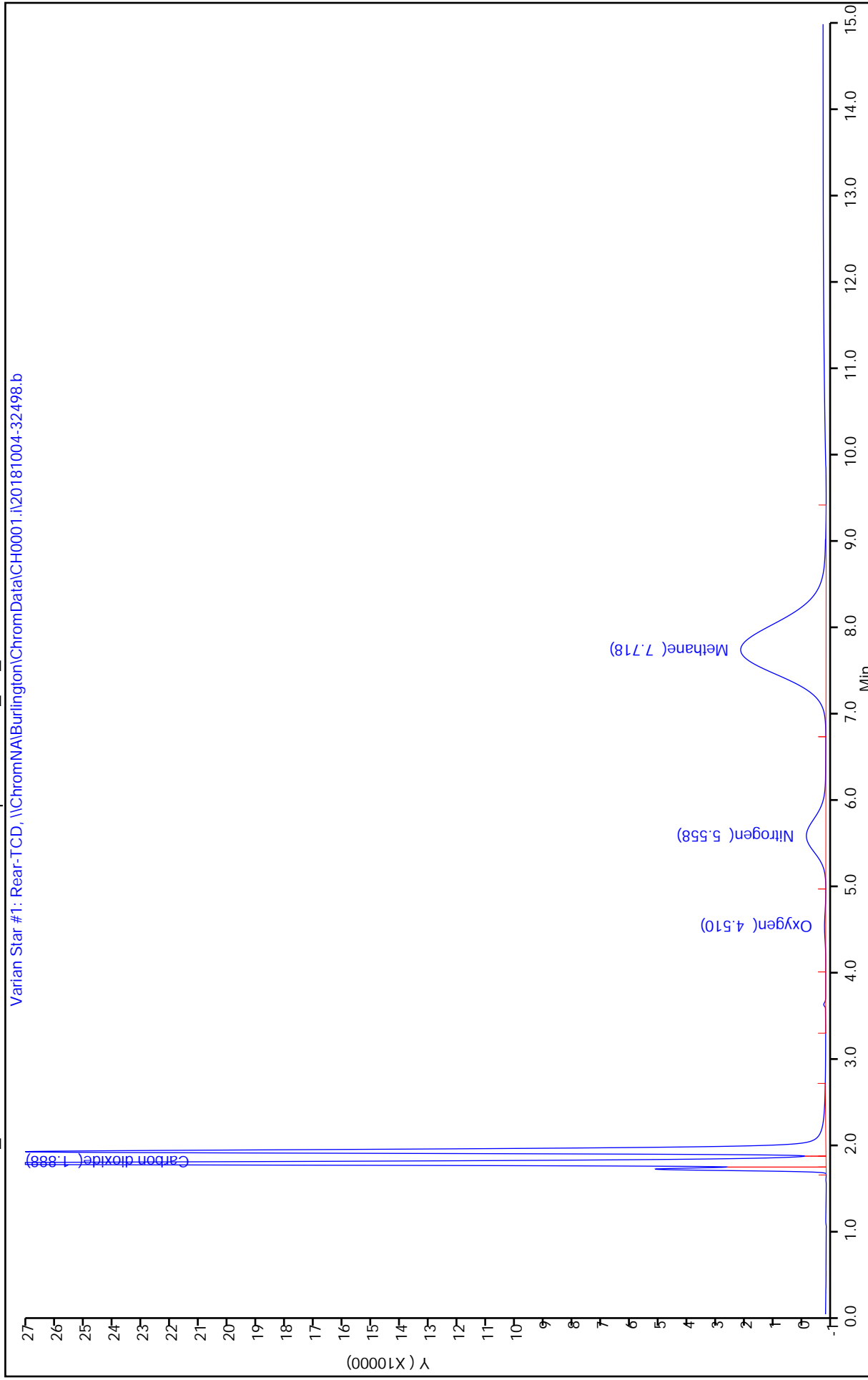
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	949538	952620	951079	0.16
Oxygen	9350	8868	9109	2.65
Nitrogen	189658	189905	189781.5	0.07
Methane	1239762	1246755	1243258.5	0.28

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	21.39	21.46	21.43	0.16
Oxygen	0.19	0.18	0.18	2.65
Nitrogen	3.4	3.4	3.4	0.07
Methane	30.27	30.44	30.35	0.28

TestAmerica Burlington

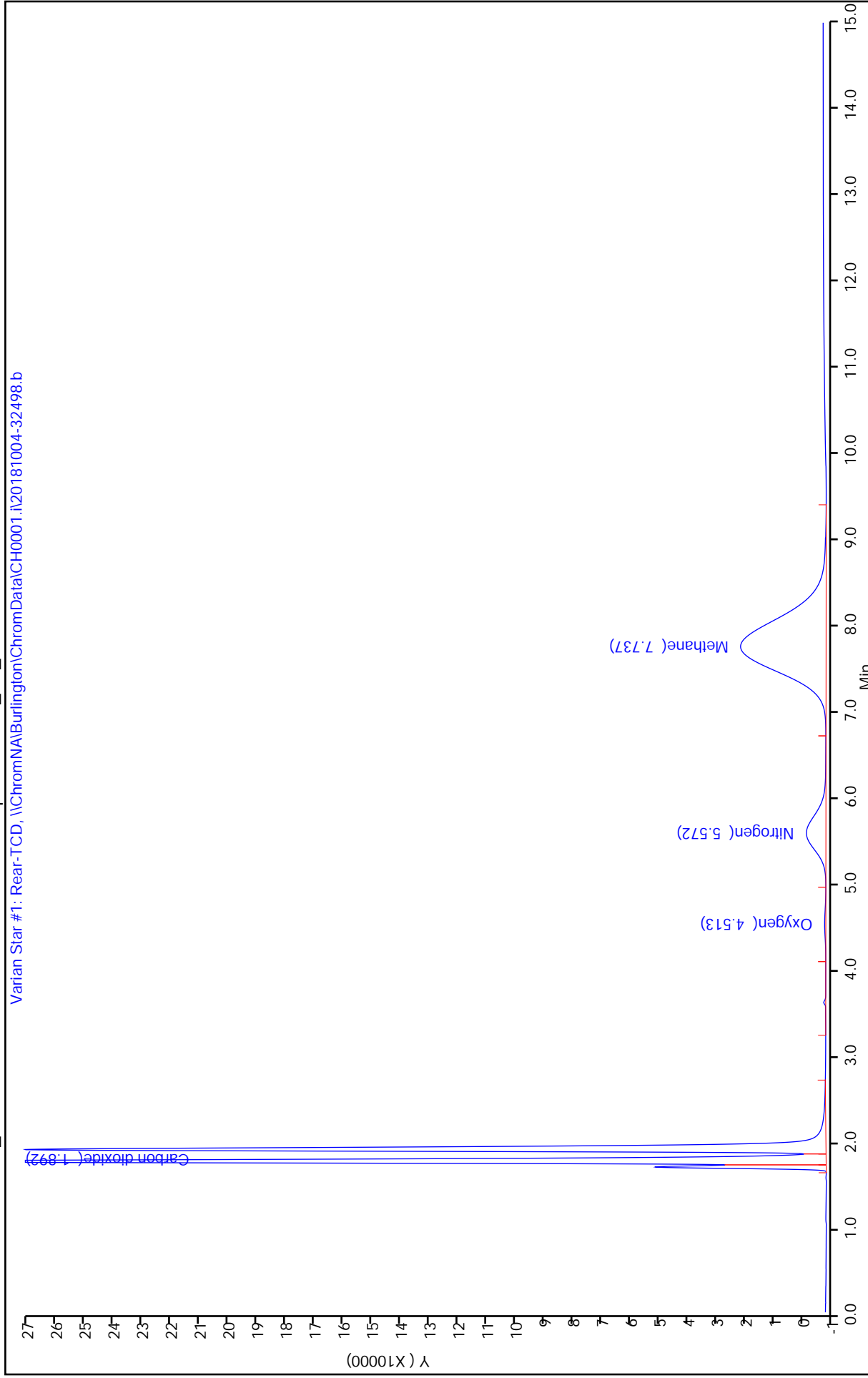
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-6a.d  
Injection Date: 05-Oct-2018 10:21:02 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-6 Lab Sample ID: 200-45482-6 Worklist Smp#: 25  
Client ID: KTSG-COMP-6 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i





TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-6b.d  
Injection Date: 05-Oct-2018 10:37:06 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-6 Lab Sample ID: 200-45482-6 Worklist Smp#: 26  
Client ID: KTSG-COMP-6 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

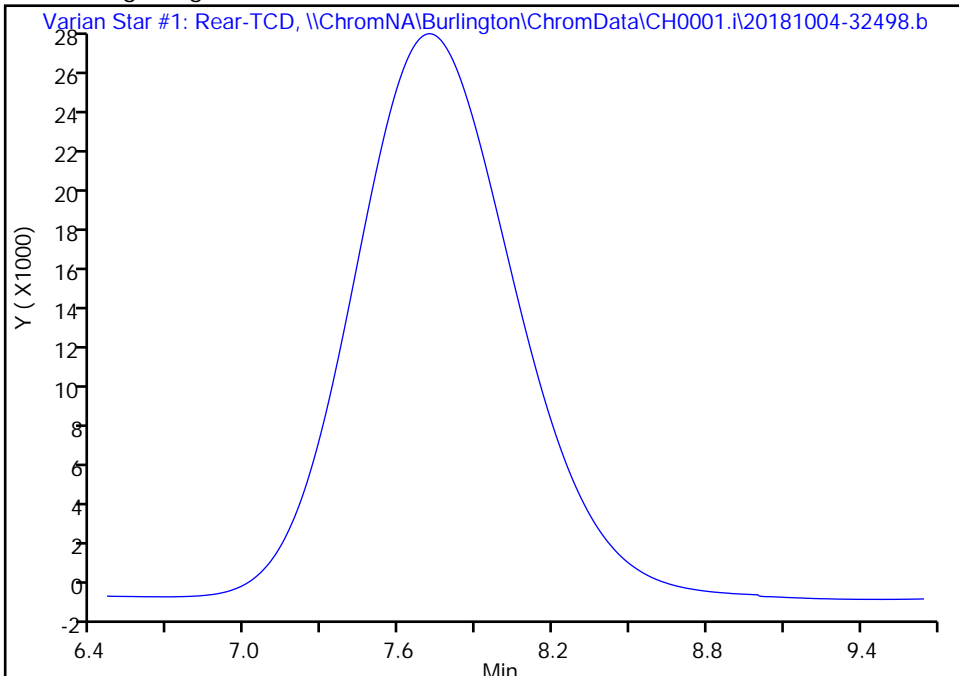
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-6a.d  
Injection Date: 05-Oct-2018 10:21:02 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-6 Lab Sample ID: 200-45482-6  
Client ID: KTSG-COMP-6  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 25  
Purge Vol: 2.000 mL Dil. Factor: 1.9100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

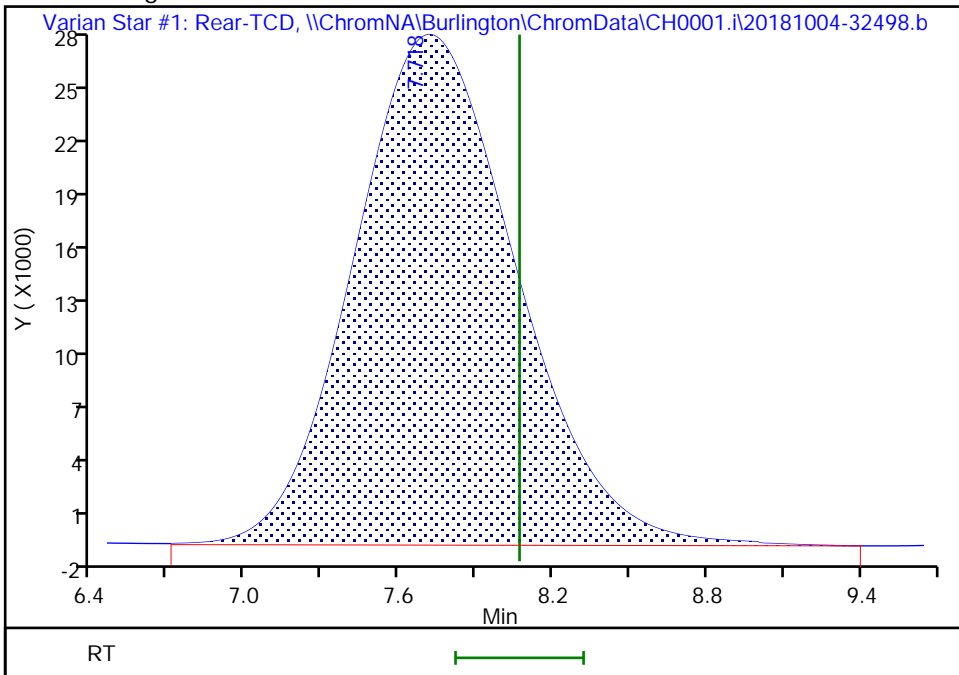
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.72  
Area: 1239762  
Amount: 30.265631  
Amount Units: % v/v



TestAmerica Burlington

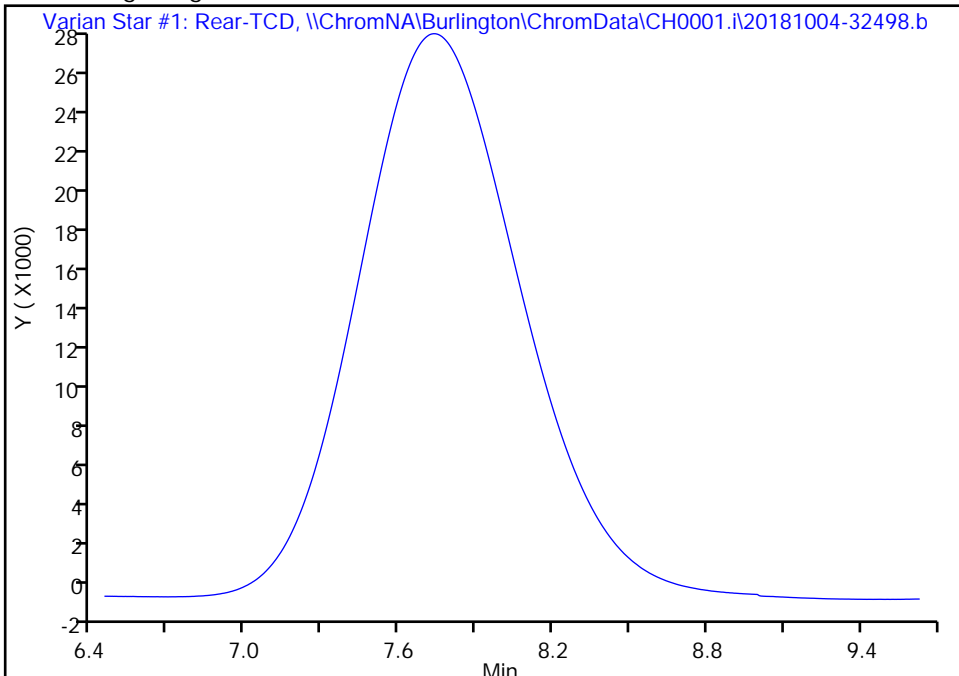
Data File:	\\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-6b.d				
Injection Date:	05-Oct-2018 10:37:06	Instrument ID:	CH0001.i		
Lims ID:	200-45482-A-6	Lab Sample ID:	200-45482-6		
Client ID:	KTSG-COMP-6				
Operator ID:	WRD	ALS Bottle#:	0	Worklist Smp#:	26
Purge Vol:	2.000 mL	Dil. Factor:	1.9100		
Method:	EPA3C_CH0001.i	Limit Group:	AI_3C_Limits		
Column:		Detector:	Varian Star #1: Rear-TCD		

4 Methane, CAS: 74-82-8

Signal: 1

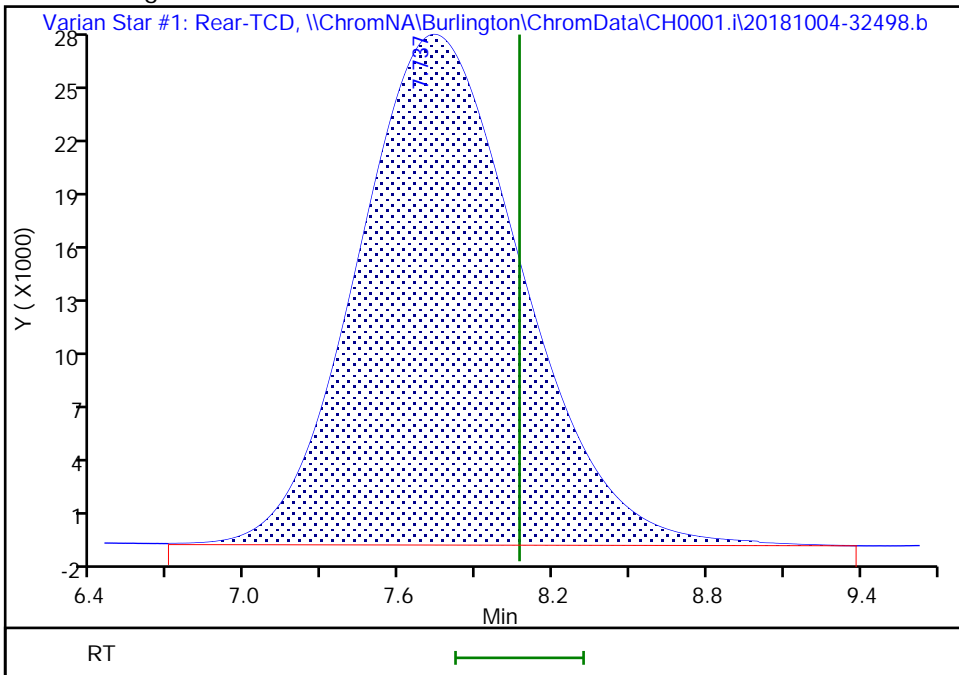
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.74  
Area: 1246755  
Amount: 30.436348  
Amount Units: % v/v



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-7</u>	Lab Sample ID: <u>200-45482-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-7a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/25/2018 15:56</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 11:25</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.78</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	44		0.089	0.089
74-82-8	Methane	59		0.071	0.071
7727-37-9	Nitrogen	1.2		0.89	0.89
7782-44-7	Oxygen	0.19		0.089	0.089

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7a.d  
 Lims ID: 200-45482-A-7  
 Client ID: KTSG-COMP-7  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 11:25:25 ALS Bottle#: 0 Worklist Smp#: 27  
 Purge Vol: 2.000 mL Dil. Factor: 1.7800  
 Sample Info: 200-45482-A-7a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:05:09 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:28:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.873	1.894	-0.021	1093413	24.6	
2 Oxygen	4.455	4.487	-0.032	5543	0.1103	
3 Nitrogen	5.485	5.582	-0.097	37877	0.6784	
4 Methane	7.595	8.069	-0.474	1357782	33.1	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7b.d  
 Lims ID: 200-45482-A-7  
 Client ID: KTSG-COMP-7  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 11:41:29 ALS Bottle#: 0 Worklist Smp#: 28  
 Purge Vol: 2.000 mL Dil. Factor: 1.7800  
 Sample Info: 200-45482-A-7b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:05:09 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:28:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.870	1.894	-0.024	1093158	24.6	
2 Oxygen	4.448	4.487	-0.039	5428	0.1081	M
3 Nitrogen	5.472	5.582	-0.110	37833	0.6776	
4 Methane	7.580	8.069	-0.489	1358926	33.2	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-7a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-7b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

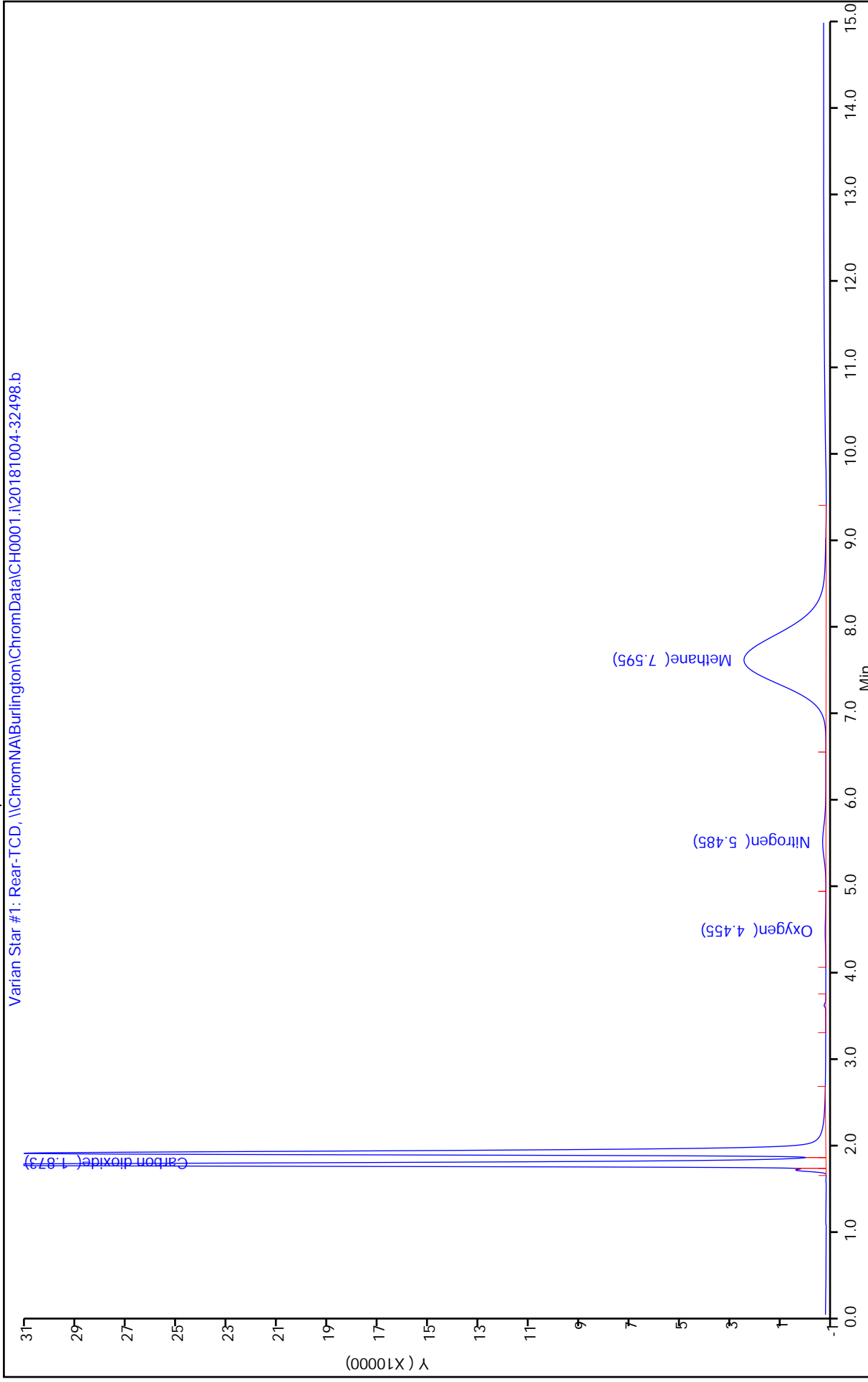
Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	1093413	1093158	1093285.5	0.01
Oxygen	5543	5428	5485.5	1.05
Nitrogen	37877	37833	37855	0.06
Methane	1357782	1358926	1358354	0.04

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	24.63	24.63	24.63	0.01
Oxygen	0.11	0.11	0.11	1.05
Nitrogen	0.68	0.68	0.68	0.06
Methane	33.15	33.17	33.16	0.04



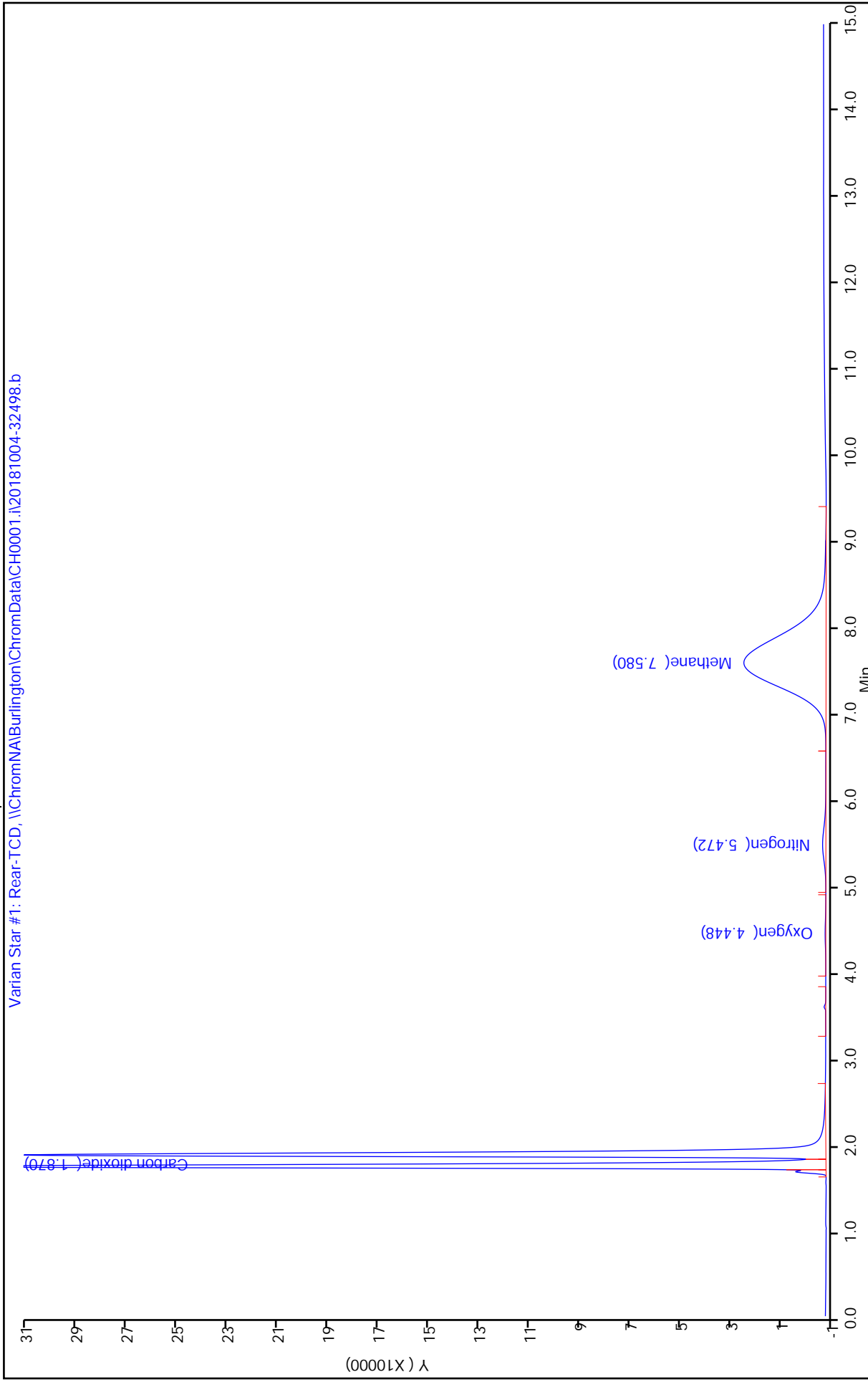
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7a.d  
Injection Date: 05-Oct-2018 11:25:25 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7 Worklist Smp#: 27  
Client ID: KTSG-COMP-7 Dil. Factor: 1.7800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7b.d  
Injection Date: 05-Oct-2018 11:41:29 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7 Worklist Smp#: 28  
Client ID: KTSG-COMP-7 Dil. Factor: 1.7800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

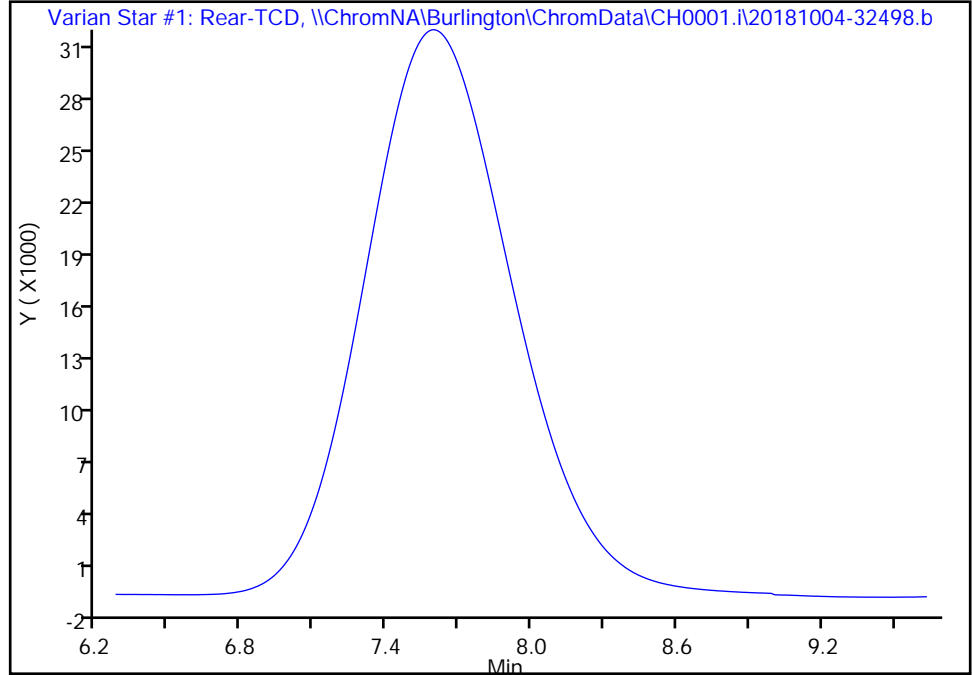
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7a.d  
Injection Date: 05-Oct-2018 11:25:25 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7  
Client ID: KTSG-COMP-7  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 27  
Purge Vol: 2.000 mL Dil. Factor: 1.7800  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

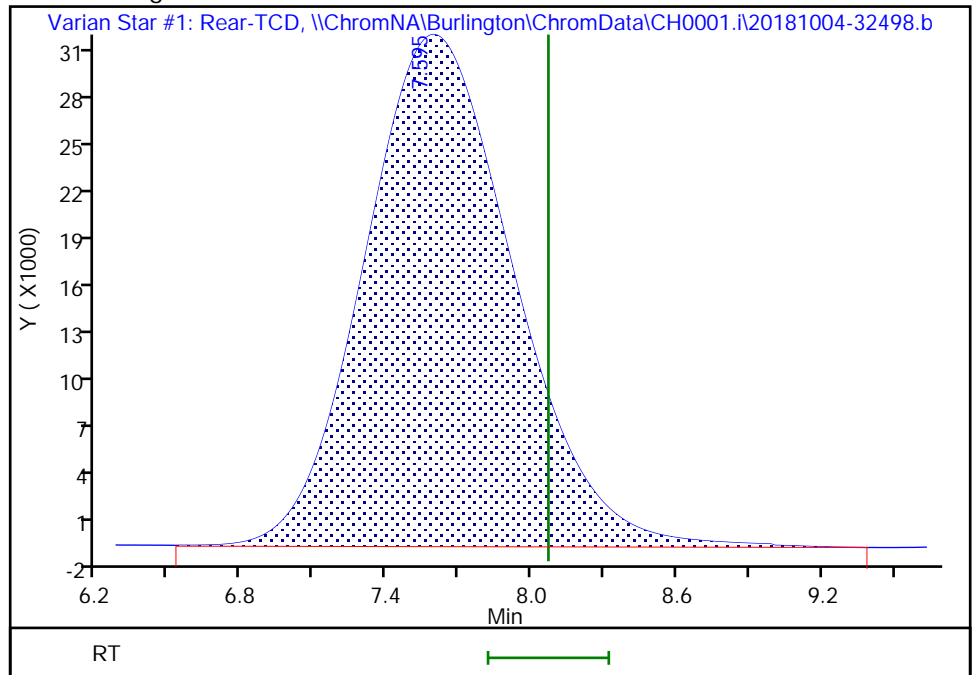
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.60  
Area: 1357782  
Amount: 33.146789  
Amount Units: % v/v



TestAmerica Burlington

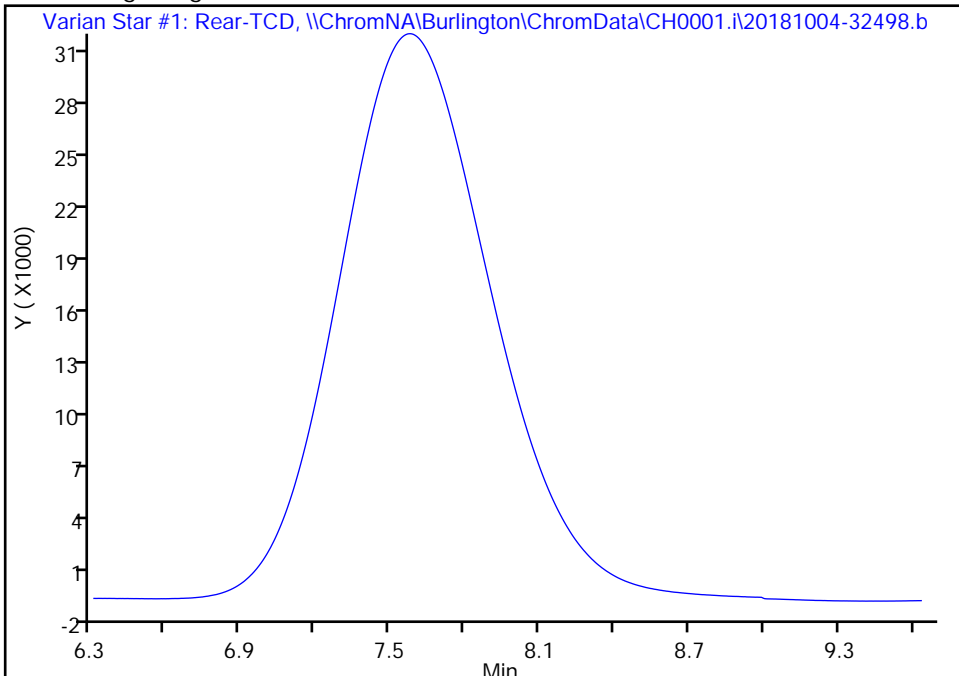
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7b.d  
Injection Date: 05-Oct-2018 11:41:29 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7  
Client ID: KTSG-COMP-7  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 28  
Purge Vol: 2.000 mL Dil. Factor: 1.7800  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

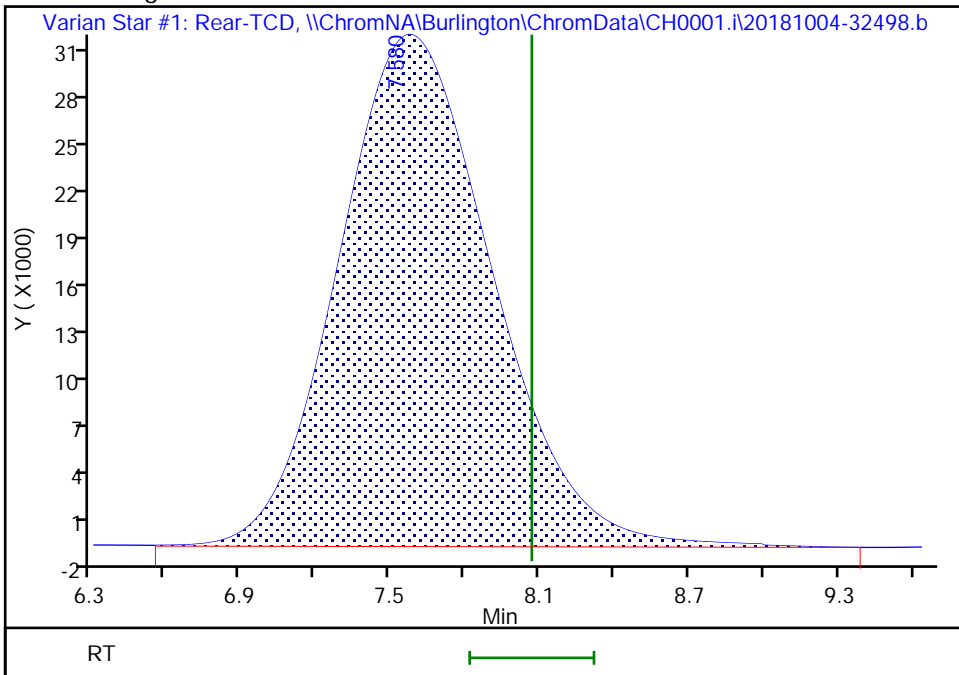
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.58  
Area: 1358926  
Amount: 33.174717  
Amount Units: % v/v



TestAmerica Burlington

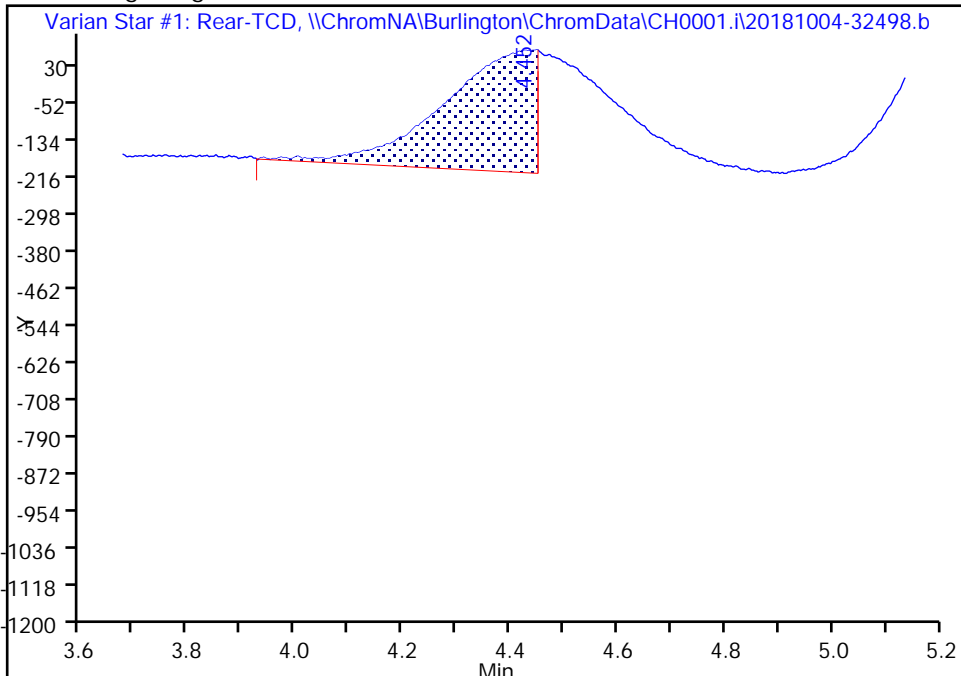
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-7b.d  
Injection Date: 05-Oct-2018 11:41:29 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7  
Client ID: KTSG-COMP-7  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 28  
Purge Vol: 2.000 mL Dil. Factor: 1.7800  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

Signal: 1

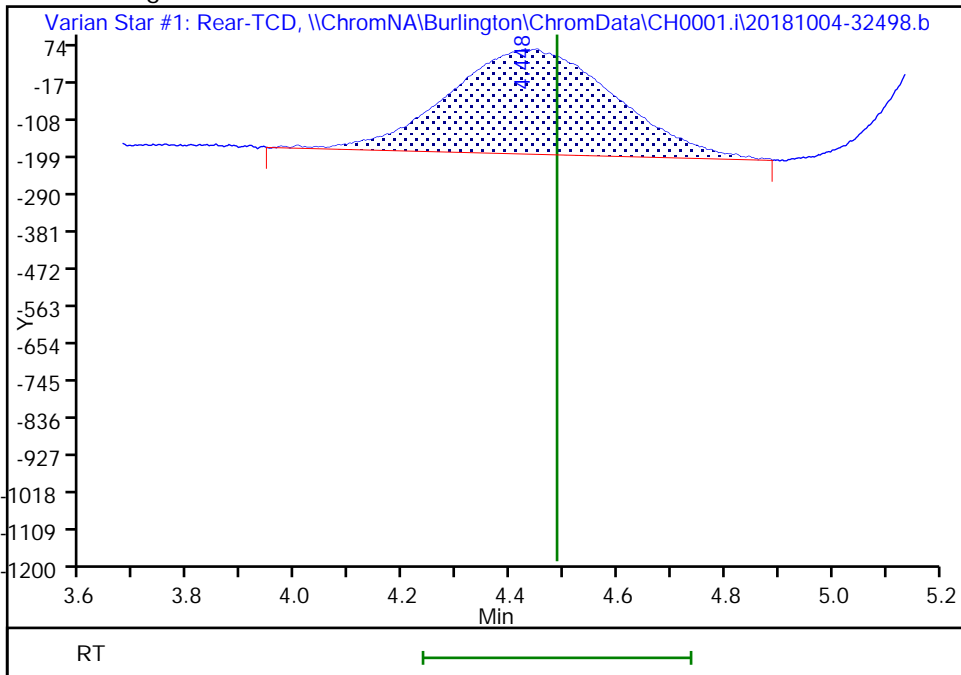
RT: 4.45  
Area: 3099  
Amount: 0.061692  
Amount Units: % v/v

Processing Integration Results



RT: 4.45  
Area: 5428  
Amount: 0.108055  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 15:04:38  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-8</u>	Lab Sample ID: <u>200-45482-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-8a.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/25/2018 17:59</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 12:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.91</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135204</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	42		0.096	0.096
74-82-8	Methane	61		0.076	0.076
7727-37-9	Nitrogen	1.8		0.96	0.96
7782-44-7	Oxygen	0.21		0.096	0.096

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-8a.d  
 Lims ID: 200-45482-A-8  
 Client ID: KTSG-COMP-8  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 12:29:48 ALS Bottle#: 0 Worklist Smp#: 29  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-8a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:28:59

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.883	1.894	-0.011	974264	22.0	
2 Oxygen	4.508	4.487	0.021	5599	0.1115	
3 Nitrogen	5.540	5.582	-0.042	51956	0.9306	
4 Methane	7.685	8.069	-0.384	1309385	32.0	a

QC Flag Legend

Review Flags

a - User Assigned ID



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-8b.d  
 Lims ID: 200-45482-A-8  
 Client ID: KTSG-COMP-8  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 12:45:51 ALS Bottle#: 0 Worklist Smp#: 30  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-8b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:29:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.887	1.894	-0.007	980000	22.1	
2 Oxygen	4.507	4.487	0.020	5428	0.1081	
3 Nitrogen	5.553	5.582	-0.029	51831	0.9284	
4 Methane	7.708	8.069	-0.361	1318284	32.2	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45482-a-8a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45482-a-8b-134860-ai\_3c\_limits-1.txt

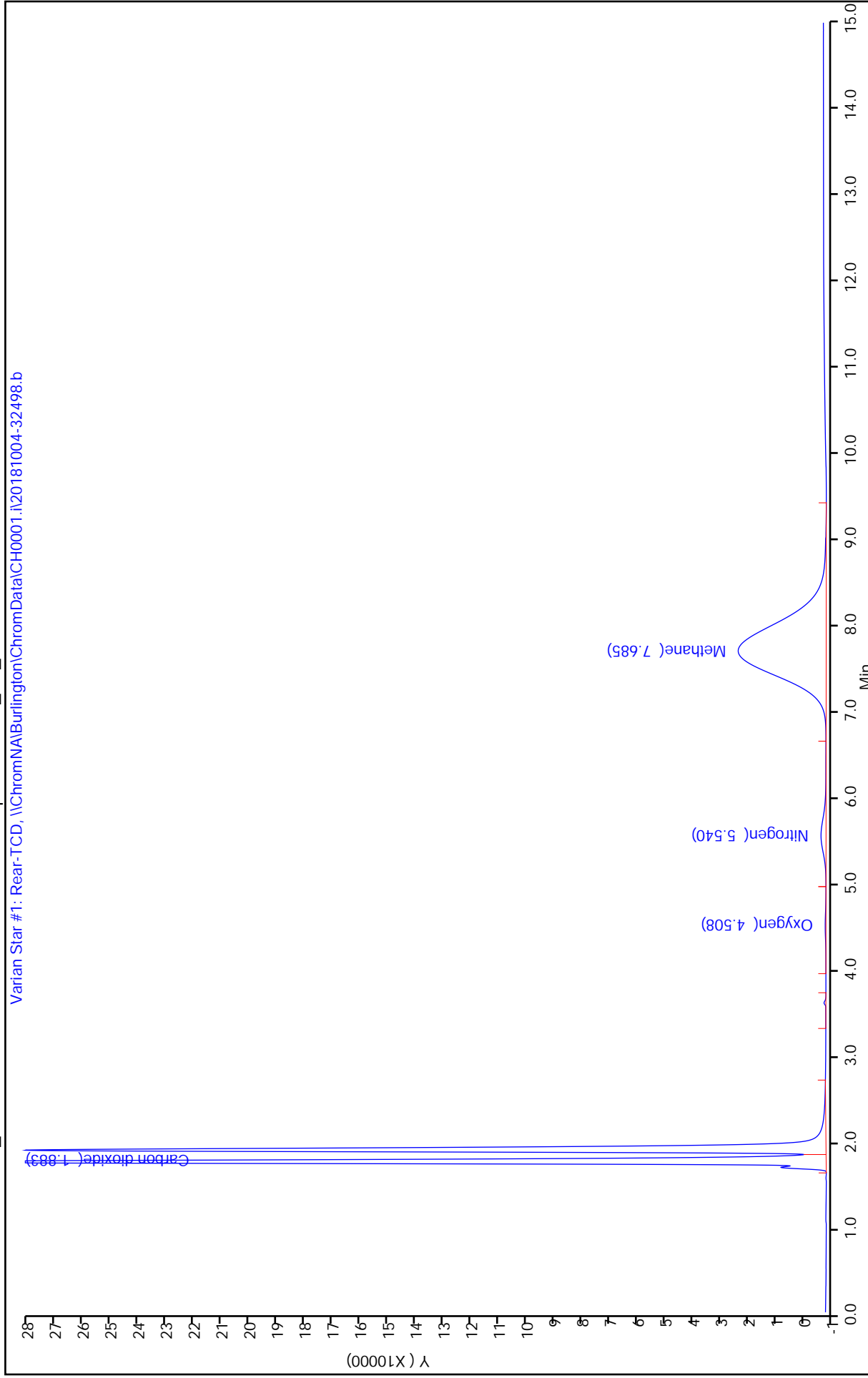
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	974264	980000	977132	0.29
Oxygen	5599	5428	5513.5	1.55
Nitrogen	51956	51831	51893.5	0.12
Methane	1309385	1318284	1313834.5	0.34

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	21.95	22.08	22.01	0.29
Oxygen	0.11	0.11	0.11	1.55
Nitrogen	0.93	0.93	0.93	0.12
Methane	31.97	32.18	32.07	0.34

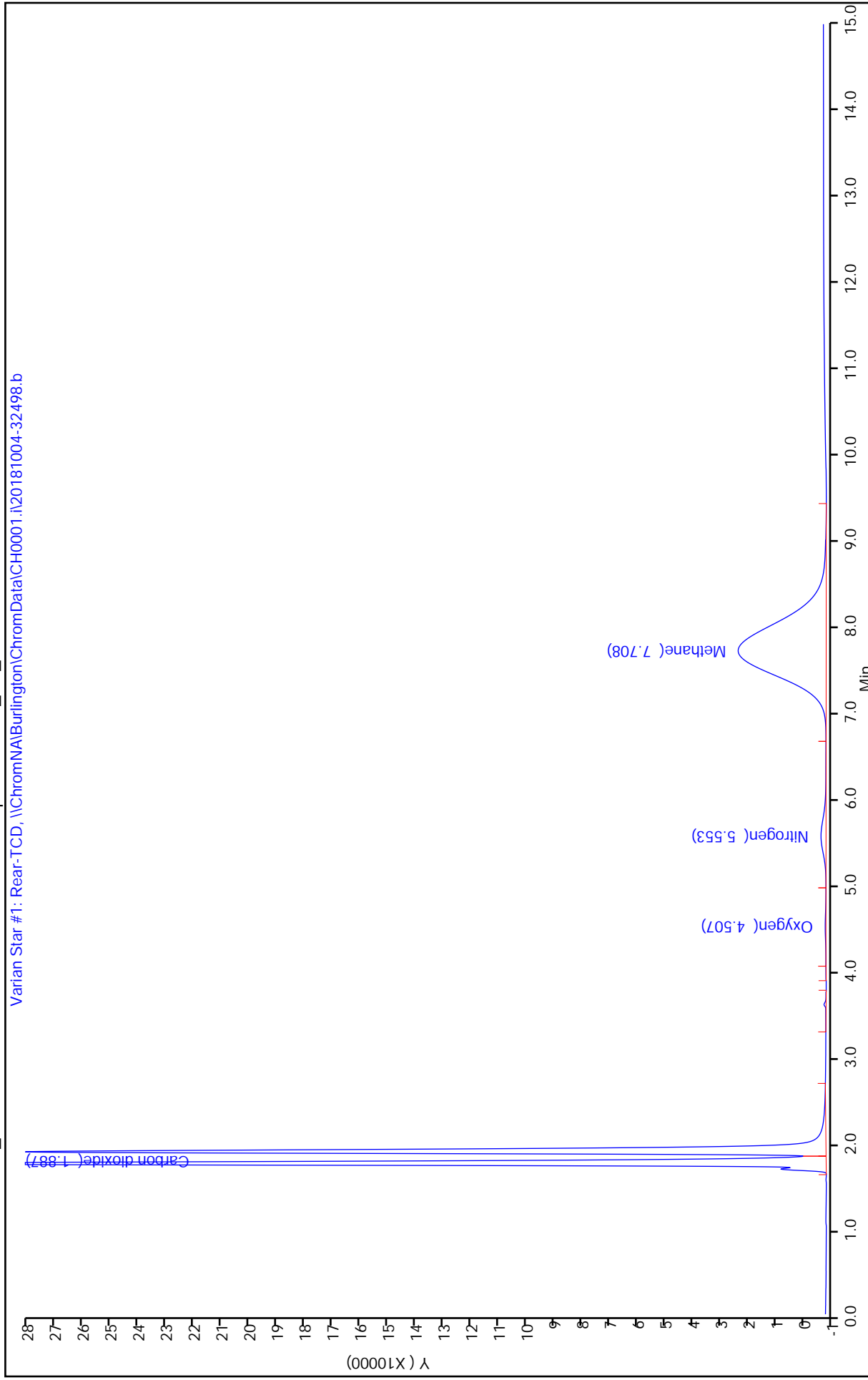
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-8a.d  
Injection Date: 05-Oct-2018 12:29:48 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-8 Lab Sample ID: 200-45482-8 Worklist Smp#: 29  
Client ID: KTSG-COMP-8 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-8b.d  
Injection Date: 05-Oct-2018 12:45:51 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-8 Lab Sample ID: 200-45482-8 Worklist Smp#: 30  
Client ID: KTSG-COMP-8 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

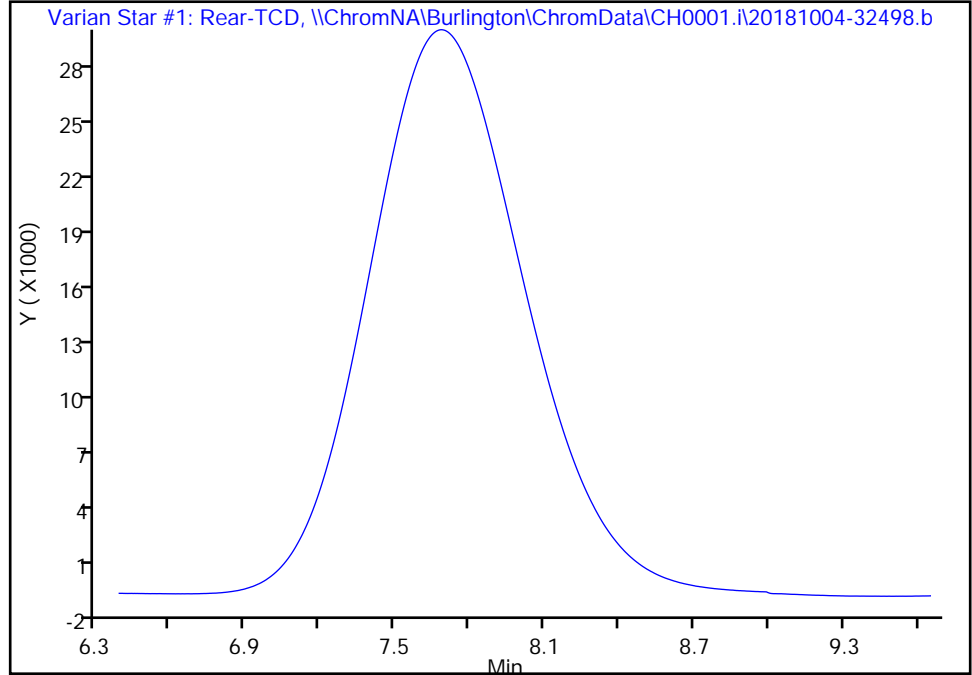
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-8a.d  
Injection Date: 05-Oct-2018 12:29:48 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-8 Lab Sample ID: 200-45482-8  
Client ID: KTSG-COMP-8  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 29  
Purge Vol: 2.000 mL Dil. Factor: 1.9100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

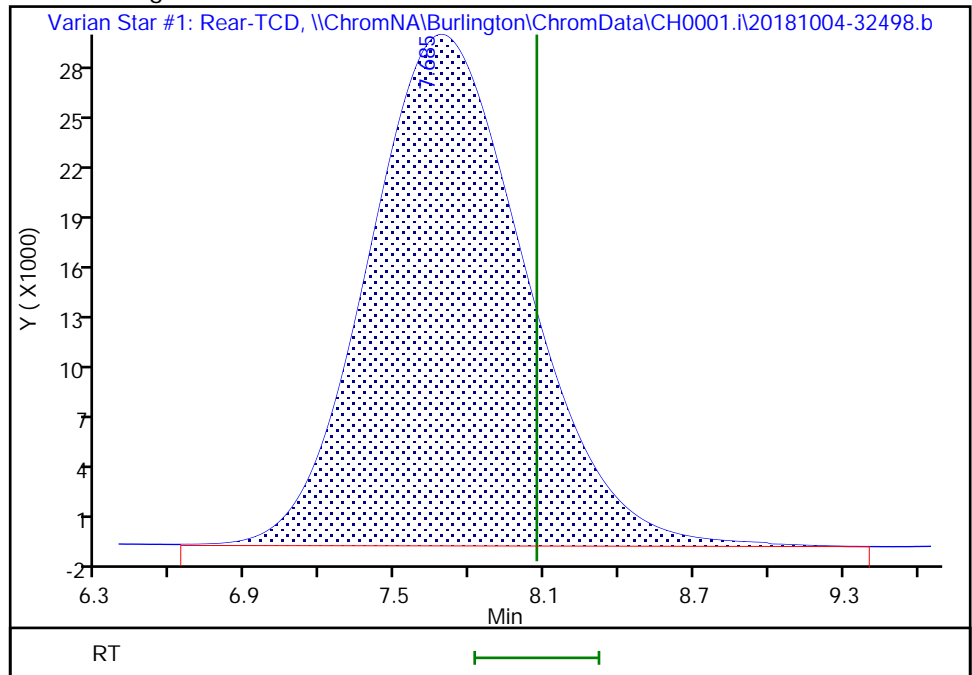
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.69  
Area: 1309385  
Amount: 31.965300  
Amount Units: % v/v



TestAmerica Burlington

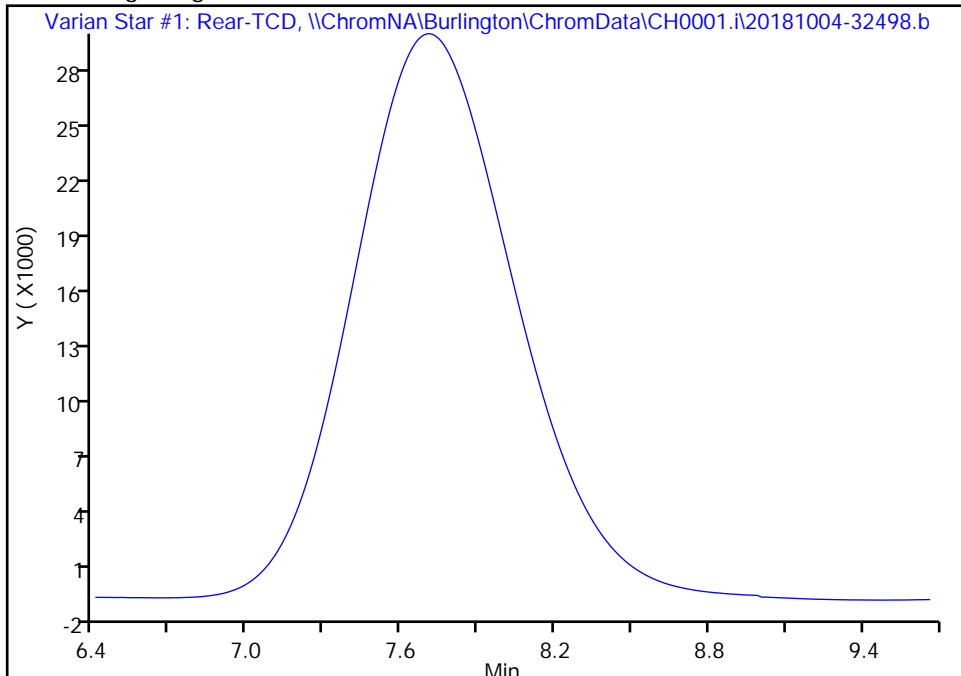
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\200-45482-a-8b.d  
Injection Date: 05-Oct-2018 12:45:51 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-8 Lab Sample ID: 200-45482-8  
Client ID: KTSG-COMP-8  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 30  
Purge Vol: 2.000 mL Dil. Factor: 1.9100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

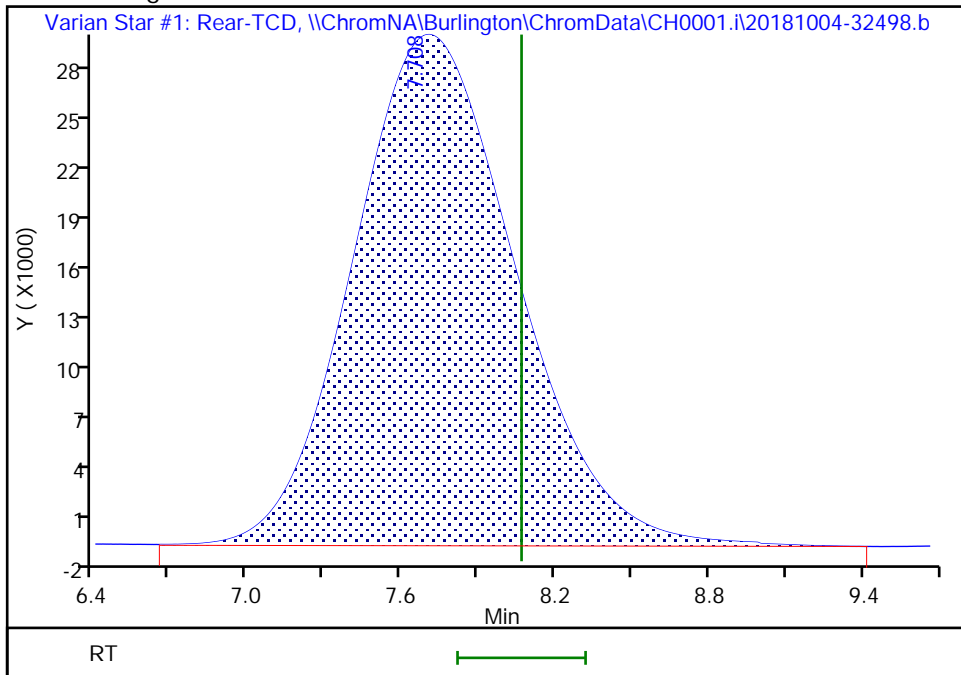
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.71  
Area: 1318284  
Amount: 32.182546  
Amount Units: % v/v



FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1 Analy Batch No.: 92935

SDG No.: 200-45482-1

Instrument ID: CH0001.i GC Column: CTR-1 ID: 3.175 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 09:23 Calibration End Date: 08/17/2015 17:37 Calibration ID: 31742

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92935/1	ic-01001.d-avg
Level 2	IC 200-92935/5	co call1002.d-avg
Level 3	IC 200-92935/2	ic-02001.d-avg
Level 4	IC 200-92935/3	ic-03002.d-avg
Level 5	ICIS 200-92935/4	icis-04001.d-avg
Level 6	IC 200-92935/6	co 10%001.d-avg
Level 7	IC 200-92935/9	zero air002.d-avg
Level 8	IC 200-92935/7	ch4 100%001.d-avg
Level 9	IC 200-92935/8	co2 100%001.d-avg
Level 10	IC 200-92935/11	n2 100%002.d-avg

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
Carbon dioxide	1.900		1.908	1.902	1.905				1.857		1.644 - 2.144	1.894
Oxygen	4.521		4.552	4.527	4.538		4.482				4.237 - 4.737	4.524
Nitrogen			5.653	5.640	5.653		5.539			5.568	5.332 - 5.832	5.611
Methane	7.581		7.855	7.998	8.198			7.760			7.819 - 8.319	7.878
Carbon monoxide		8.557	8.513	8.550	8.560	8.603					8.181 - 8.681	8.557



FORM VI  
AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45482-1 Analy Batch No.: 92935

SDG No.: 200-45482-1

Instrument ID: CH0001.i GC Column: CTR-1 ID: 3.175 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 09:23 Calibration End Date: 08/17/2015 17:37 Calibration ID: 31742

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92935/1	ic-01001.d-avg
Level 2	IC 200-92935/5	co call1002.d-avg
Level 3	IC 200-92935/2	ic-02001.d-avg
Level 4	IC 200-92935/3	ic-03002.d-avg
Level 5	ICIS 200-92935/4	icis-04001.d-avg
Level 6	IC 200-92935/6	co 10%001.d-avg
Level 7	IC 200-92935/9	zero air002.d-avg
Level 8	IC 200-92935/7	ch4 100%001.d-avg
Level 9	IC 200-92935/8	co2 100%001.d-avg
Level 10	IC 200-92935/11	n2 100%002.d-avg

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5	LVL 6	LVL 7	LVL 8												
Carbon dioxide	45260 46018 44928		42200	43521	Ave		44385.4120			3.3		20.0				
Oxygen	65630 46698		49461 44566	44815	Ave		50233.7973			16.6		20.0				
Nitrogen	52134	50787	72573 51321	52337	Ave		55830.3947			15.9		20.0				
Methane	50138 40239		36086	33990 44361	Ave		40962.7008			15.1		20.0				
Carbon monoxide	50530	46955 48197	47271	53316	Ave		49253.6400			5.5		20.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45482-1 Analy Batch No.: 92935

SDG No.: 200-45482-1

Instrument ID: CH0001.i GC Column: CTR-1 ID: 3.175 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 09:23 Calibration End Date: 08/17/2015 17:37 Calibration ID: 31742

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92935/1	ic-01001.d-avg
Level 2	IC 200-92935/5	co call1002.d-avg
Level 3	IC 200-92935/2	ic-02001.d-avg
Level 4	IC 200-92935/3	ic-03002.d-avg
Level 5	ICIS 200-92935/4	icis-04001.d-avg
Level 6	IC 200-92935/6	co 10%001.d-avg
Level 7	IC 200-92935/9	zero air002.d-avg
Level 8	IC 200-92935/7	ch4 100%001.d-avg
Level 9	IC 200-92935/8	co2 100%001.d-avg
Level 10	IC 200-92935/11	n2 100%002.d-avg

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (% V/V)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon dioxide	Ave	2263		21100	108803 4492816	230090	0.0500		0.500	2.50 100	5.00
Oxygen	Ave	3282	980450	24731	112037	233488	0.0500	22.0	0.500	2.50	5.00
Nitrogen	Ave		4003002	36287	130843	260672 5078704		78.0	0.500	2.50	5.00 100
Methane	Ave	2006		14435 4391727	67979	160958	0.0400		0.400 99.0	2.00	4.00
Carbon monoxide	Ave		4696	23636	133289	252649		0.100	0.500	2.50	5.00
		481969					10.0				

Curve Type Legend:

Ave = Average

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 17-Aug-2015 09:23:50 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-01  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:12:55 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 11:08:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.900	1.894	0.006	2261	0.0500	0.0509	
2 Oxygen	4.521	4.487	0.034	3259	0.0500	0.0649	
4 Methane	7.581	8.069	-0.488	1968	0.0400	0.0480	

Reagents:

AT3CCAL1i\_00014 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 17-Aug-2015 09:39:42 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-01  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:12:57 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:18:05

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.902	1.894	0.008	2265	0.0500	0.0510	
2 Oxygen	4.526	4.487	0.039	3304	0.0500	0.0658	
4 Methane	7.539	8.069	-0.530	2043	0.0400	0.0499	

Reagents:

AT3CCAL1i\_00014 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-01001-92802-ai\_3c\_limit

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-01002-92802-ai\_3c\_limit

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	2261	2265	2263	0.18
Oxygen	3259	3304	3281.5	1.37
Nitrogen	0	0	0	0
Methane	1968	2043	2005.5	3.74
Carbon monoxide	0	0	0	0

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	0.05	0.05	0.05	0.18
Oxygen	0.06	0.07	0.07	1.37
Nitrogen	0	0	0	0
Methane	0.05	0.05	0.05	3.74
Carbon monoxide	0	0	0	0

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:12:56

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01001.d

Injection Date: 17-Aug-2015 09:23:50

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 2

Client ID:

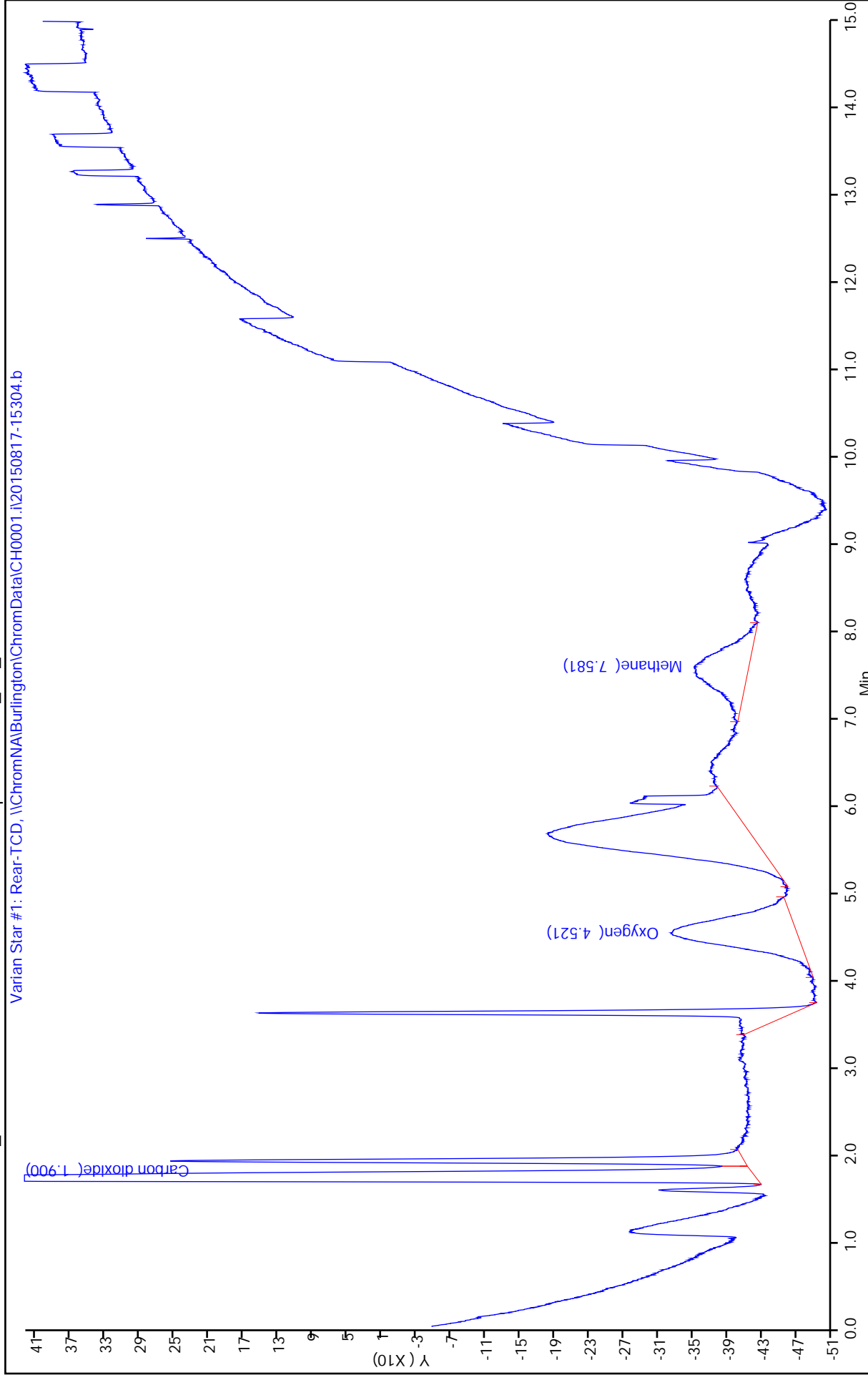
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:12:58

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01002.d

Injection Date: 17-Aug-2015 09:39:42

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 3

Client ID:

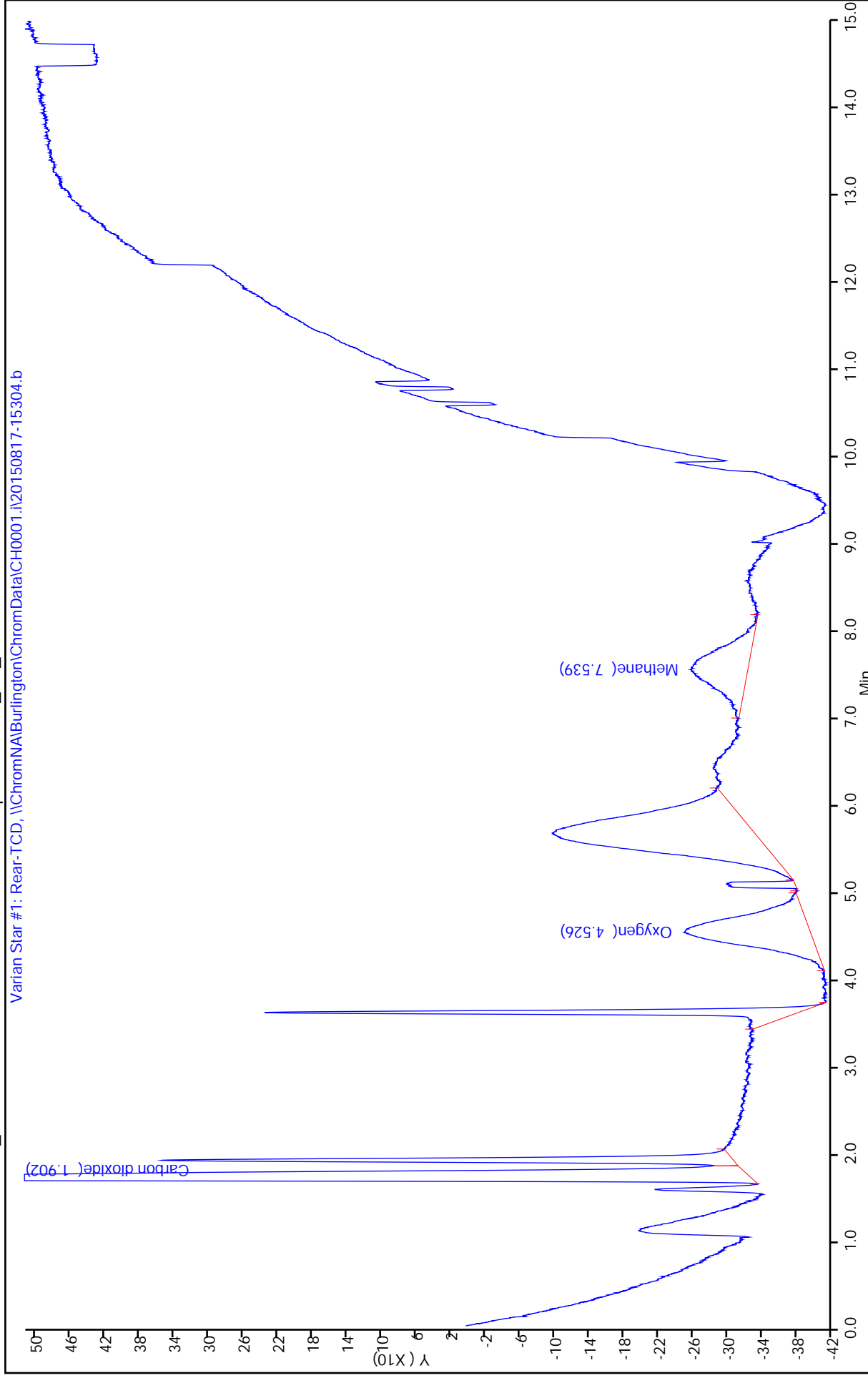
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits





TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 17-Aug-2015 10:20:55 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-02  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:01 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:18:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.908	1.894	0.014	21181	0.5000	0.4772	
2 Oxygen	4.552	4.487	0.065	24280	0.5000	0.4833	M
3 Nitrogen	5.653	5.582	0.071	35993	0.5000	0.6447	M
4 Methane	7.855	8.069	-0.214	14777	0.4000	0.3607	M
5 Carbon monoxide	8.513	8.431	0.082	24610	0.5000	0.4997	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCAL2i\_00012 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 17-Aug-2015 10:05:03 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-02  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:12:59 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 11:25:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.915	1.894	0.021	21019	0.5000	0.4736	
2 Oxygen	4.560	4.487	0.073	25181	0.5000	0.5013	M
3 Nitrogen	5.687	5.582	0.105	36580	0.5000	0.6552	M
4 Methane	7.945	8.069	-0.124	14092	0.4000	0.3440	M
5 Carbon monoxide	8.615	8.431	0.184	22661	0.5000	0.4601	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCAL2i\_00012 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-02001-92802-ai\_3c\_limit

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-02-92802-ai\_3c\_limits-1

Raw Results - Fixed Gases

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Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	21181	21019	21100	0.77
Oxygen	24280	25181	24730.5	3.64
Nitrogen	35993	36580	36286.5	1.62
Methane	14777	14092	14434.5	4.75
Carbon monoxide	24610	22661	23635.5	8.25*

\* - RPD exceeds maximum RPD of 5

---

Analyte	Concl	Conc2	Avg Conc	RPD
Carbon dioxide	0.48	0.47	0.48	0.77
Oxygen	0.48	0.5	0.49	3.64
Nitrogen	0.64	0.66	0.65	1.62
Methane	0.36	0.34	0.35	4.75
Carbon monoxide	0.5	0.46	0.48	8.25*

\* - RPD exceeds maximum RPD of 5

---

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

---

Report Date: 19-Aug-2015 16:13:01

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d

Injection Date: 17-Aug-2015 10:20:55

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 5

Client ID:

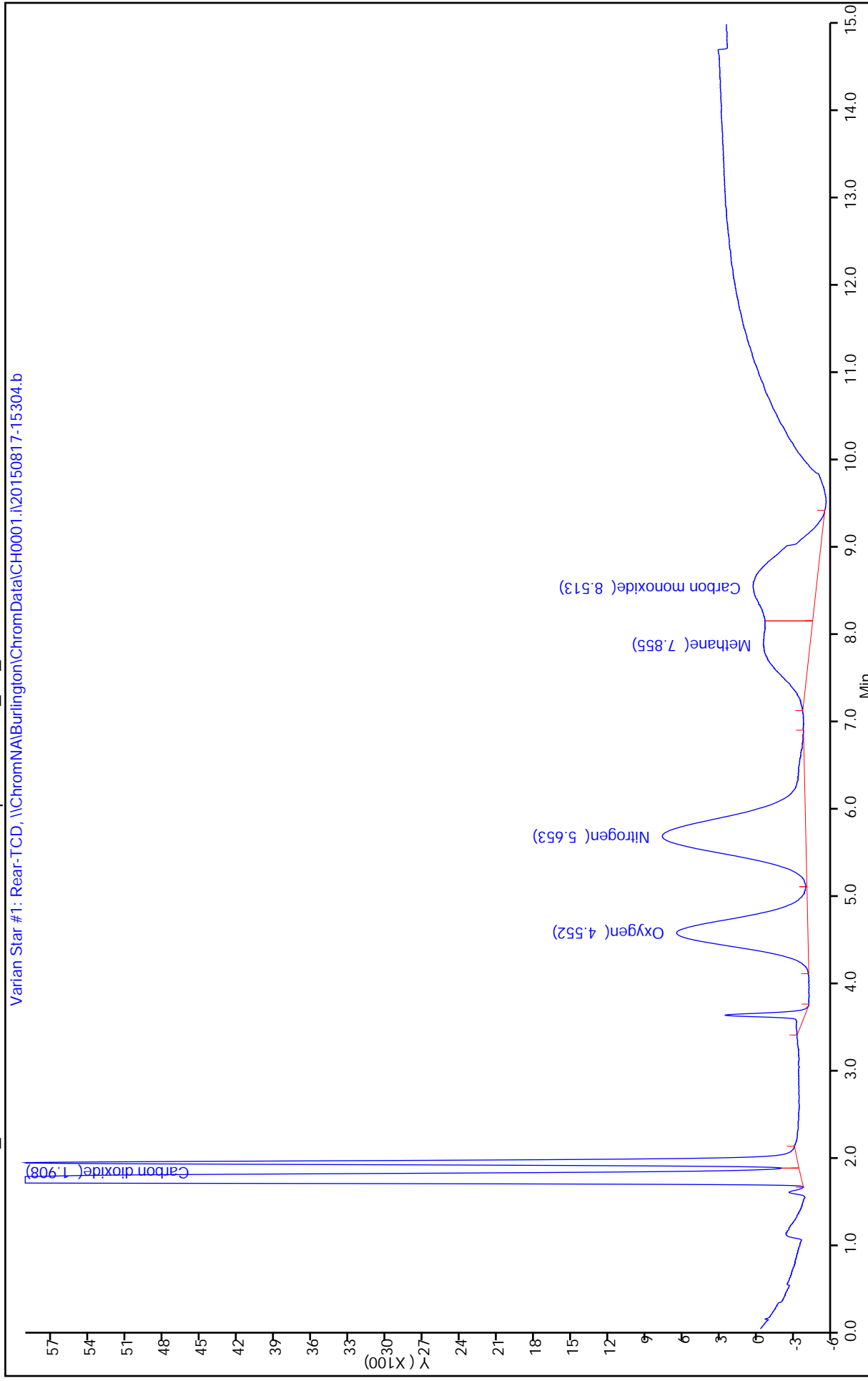
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:12:59

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d

Injection Date: 17-Aug-2015 10:05:03

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 4

Client ID:

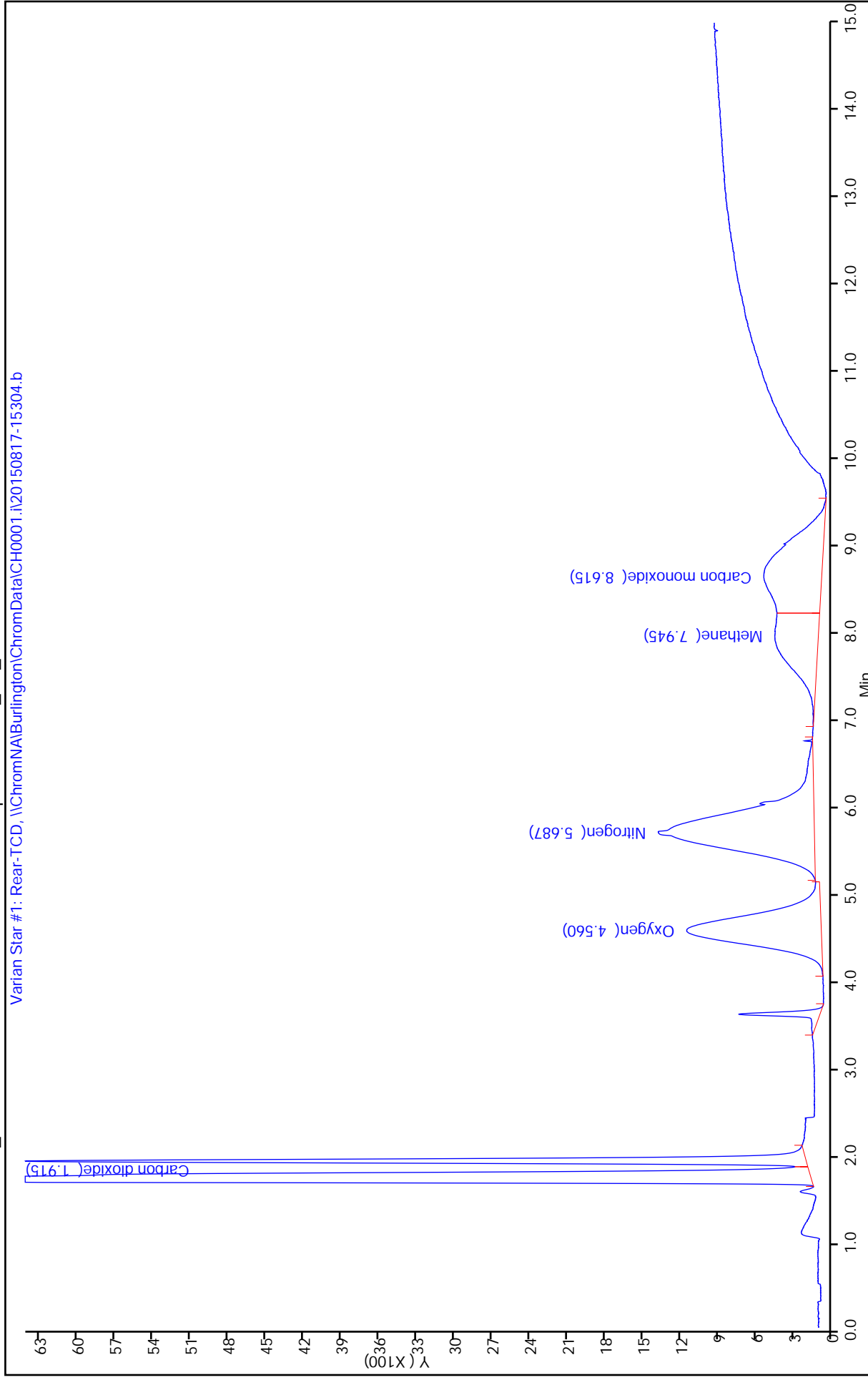
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



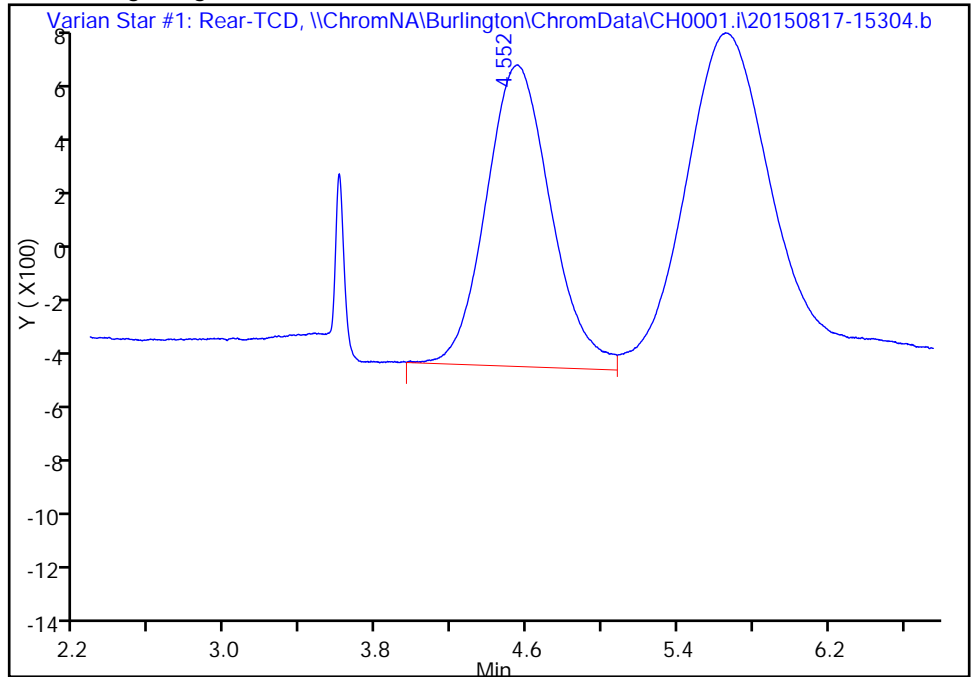
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

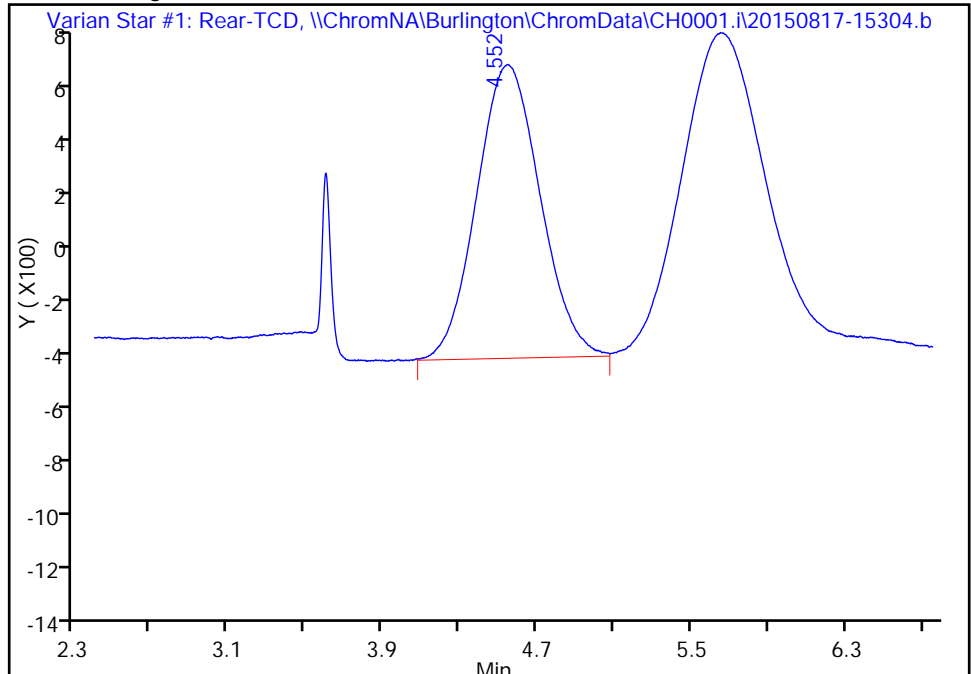
RT: 4.55  
Area: 25844  
Amount: 0.496601  
Amount Units: % v/v

Processing Integration Results



RT: 4.55  
Area: 24280  
Amount: 0.483340  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

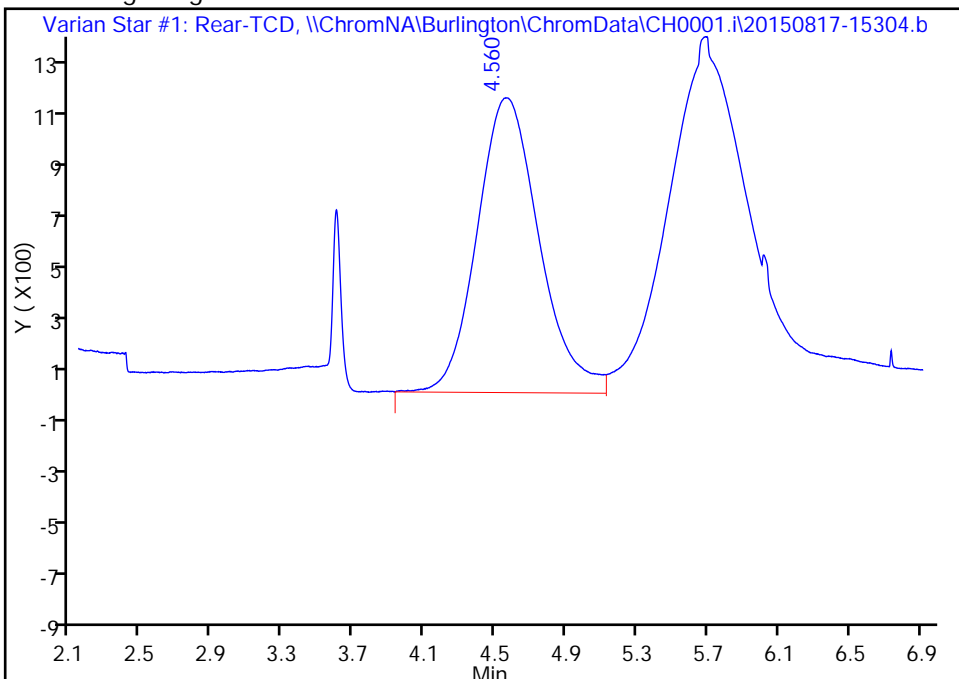
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

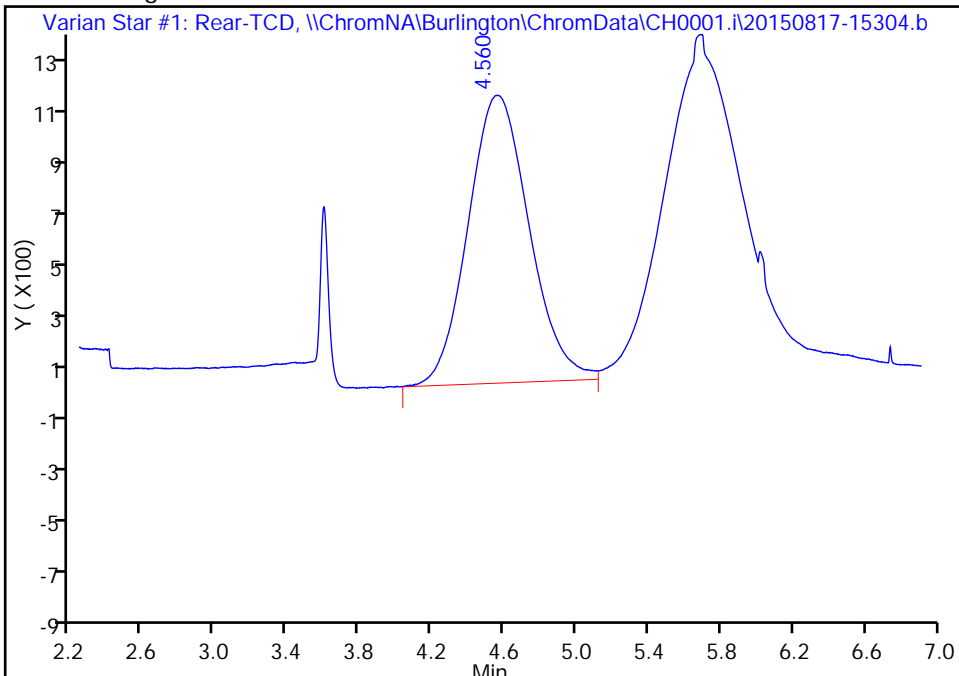
RT: 4.56  
Area: 26580  
Amount: 0.507334  
Amount Units: % v/v

Processing Integration Results



RT: 4.56  
Area: 25181  
Amount: 0.501276  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:15:04  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing



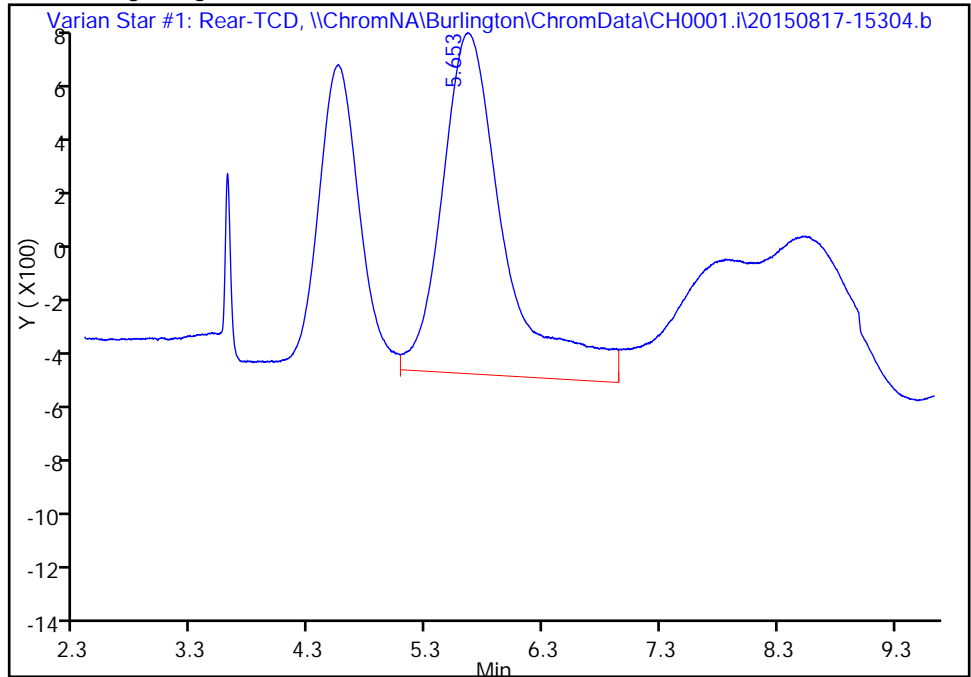
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

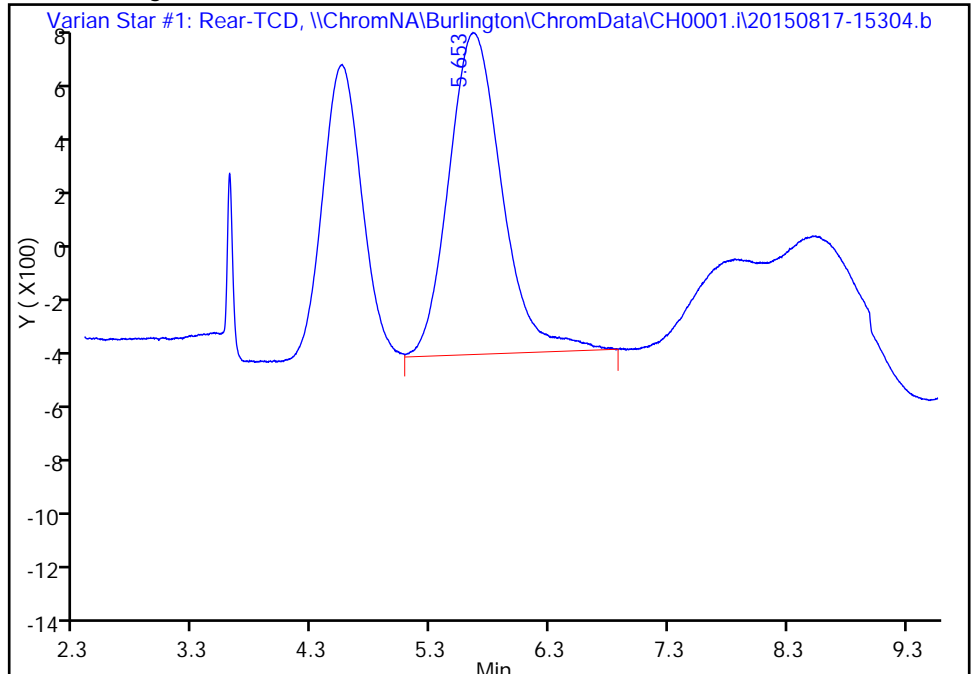
RT: 5.65  
Area: 45230  
Amount: 0.719572  
Amount Units: % v/v

Processing Integration Results



RT: 5.65  
Area: 35993  
Amount: 0.644685  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

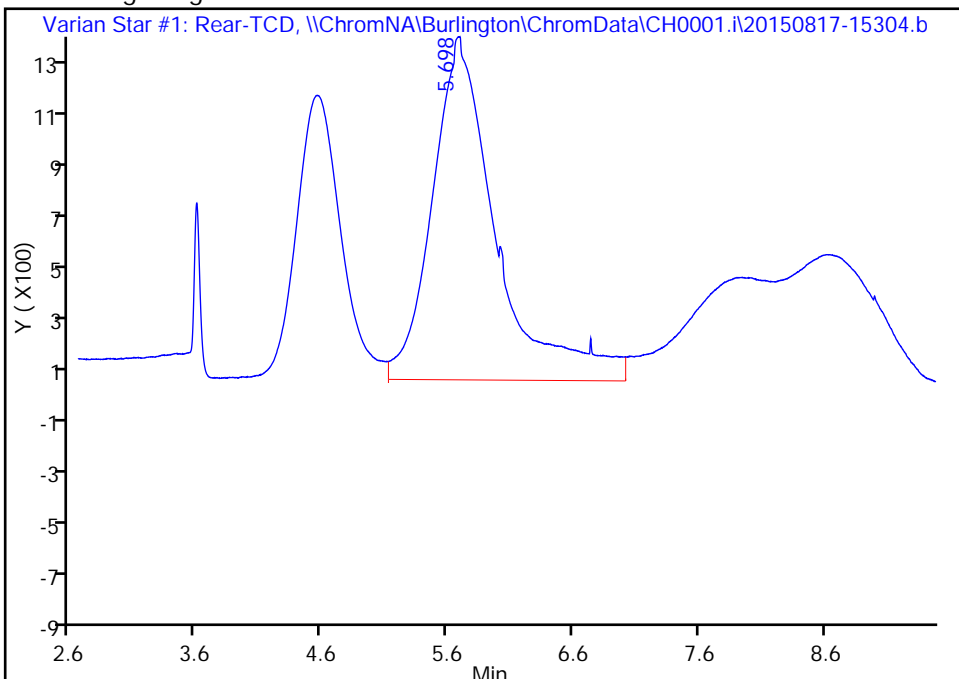
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

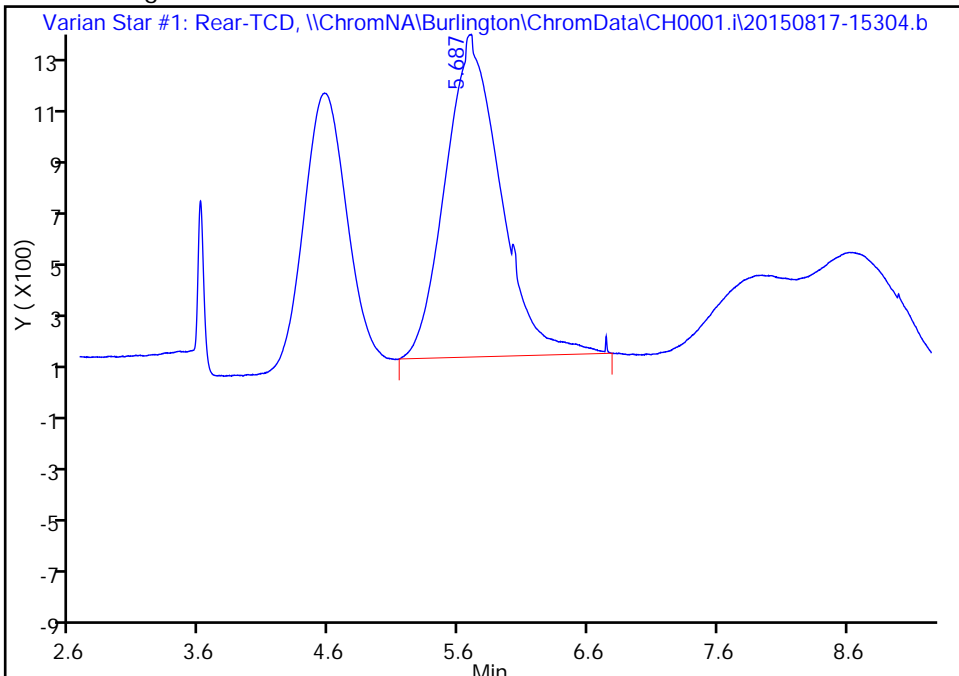
RT: 5.70  
Area: 46202  
Amount: 0.707522  
Amount Units: % v/v

Processing Integration Results



RT: 5.69  
Area: 36580  
Amount: 0.655199  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:25:32  
Audit Action: Manually Integrated  
Audit Reason: Baseline Smoothing

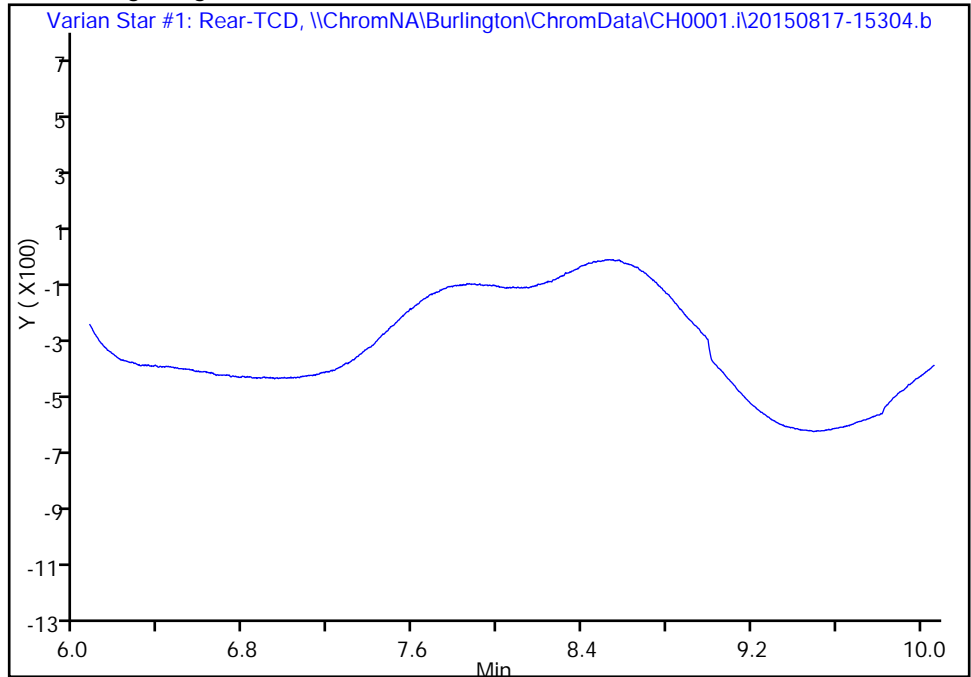
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

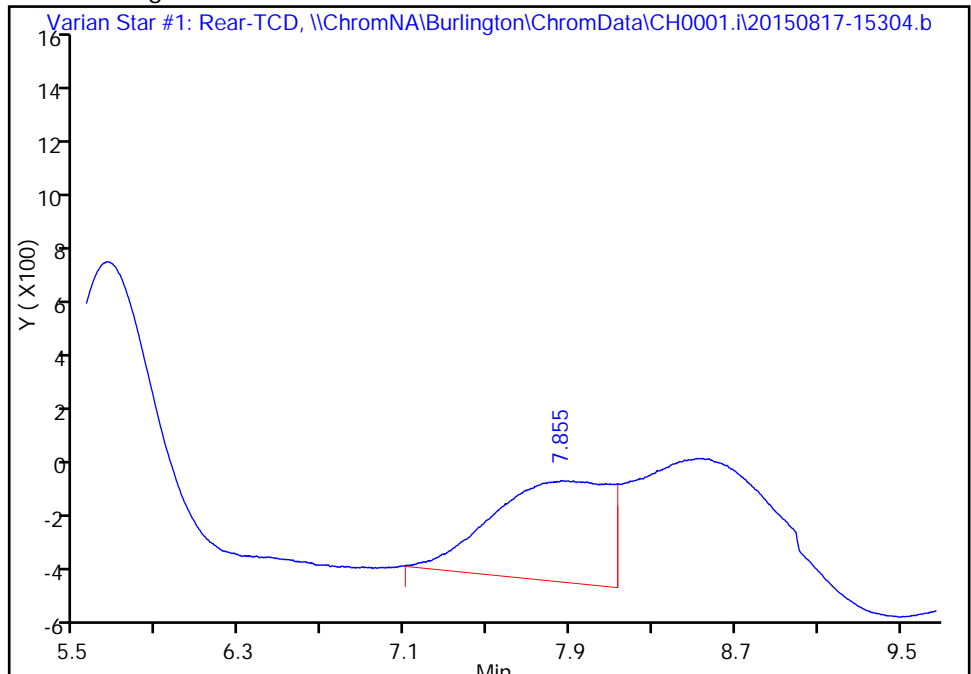
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.86  
Area: 14777  
Amount: 0.360743  
Amount Units: % v/v



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

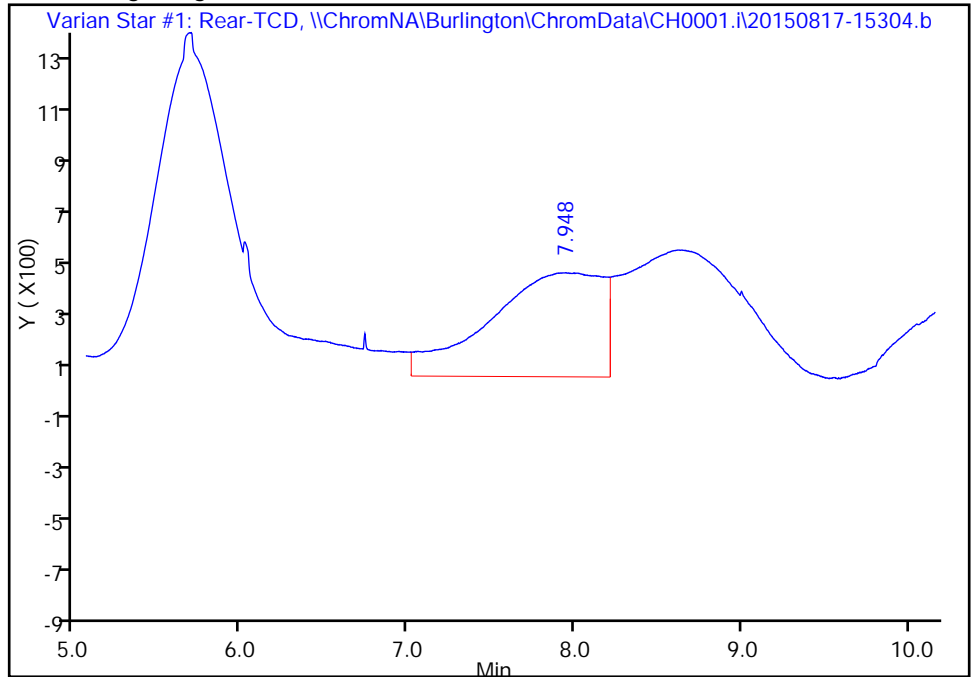
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

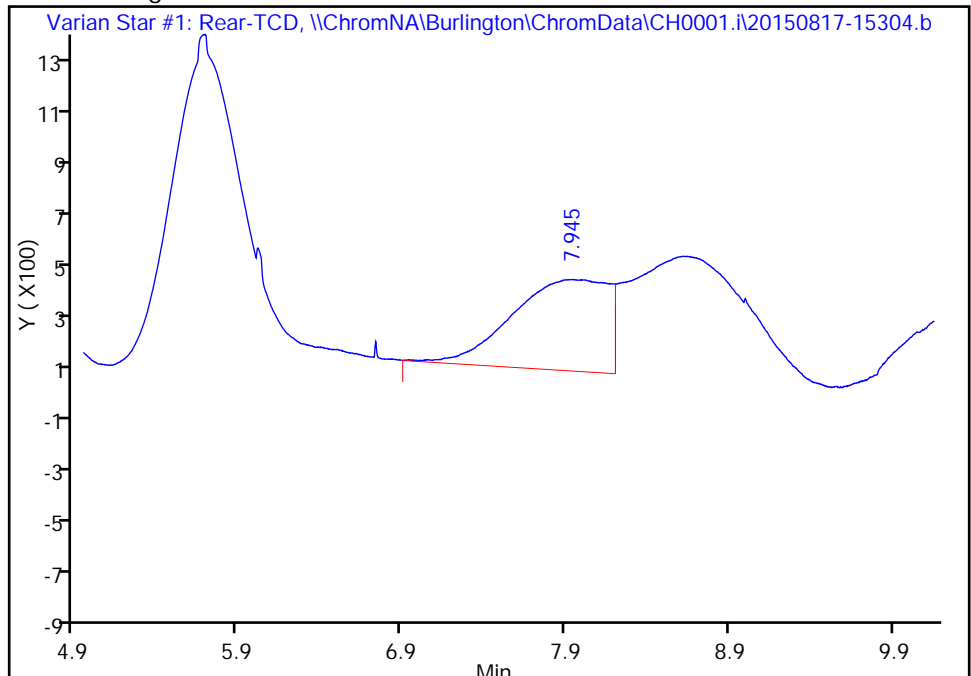
RT: 7.95  
Area: 18989  
Amount: 0.433490  
Amount Units: % v/v

Processing Integration Results



RT: 7.95  
Area: 14092  
Amount: 0.344020  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:31:27  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

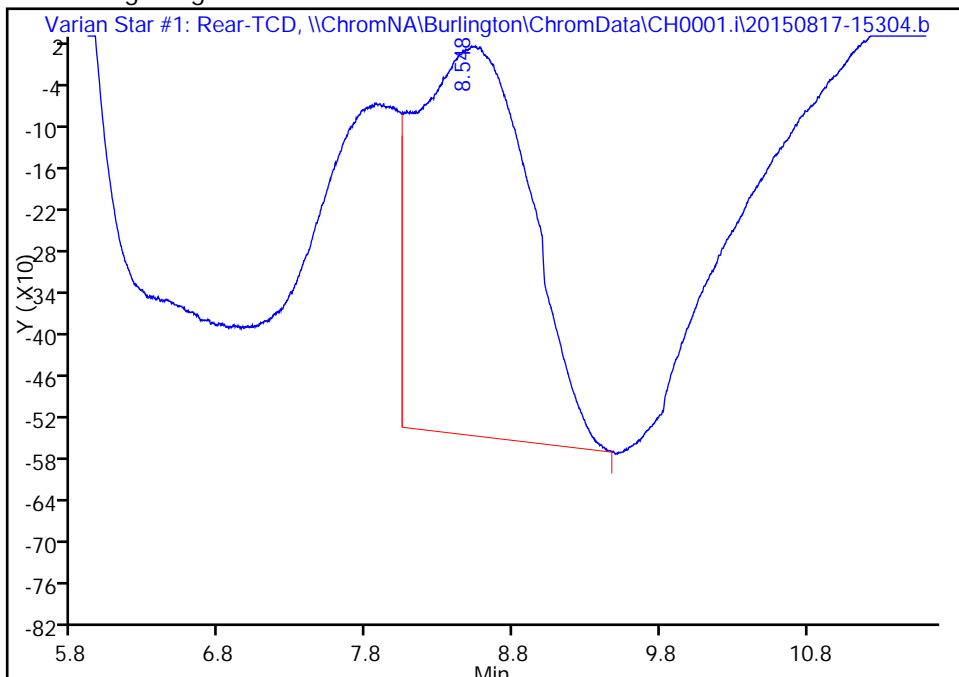
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

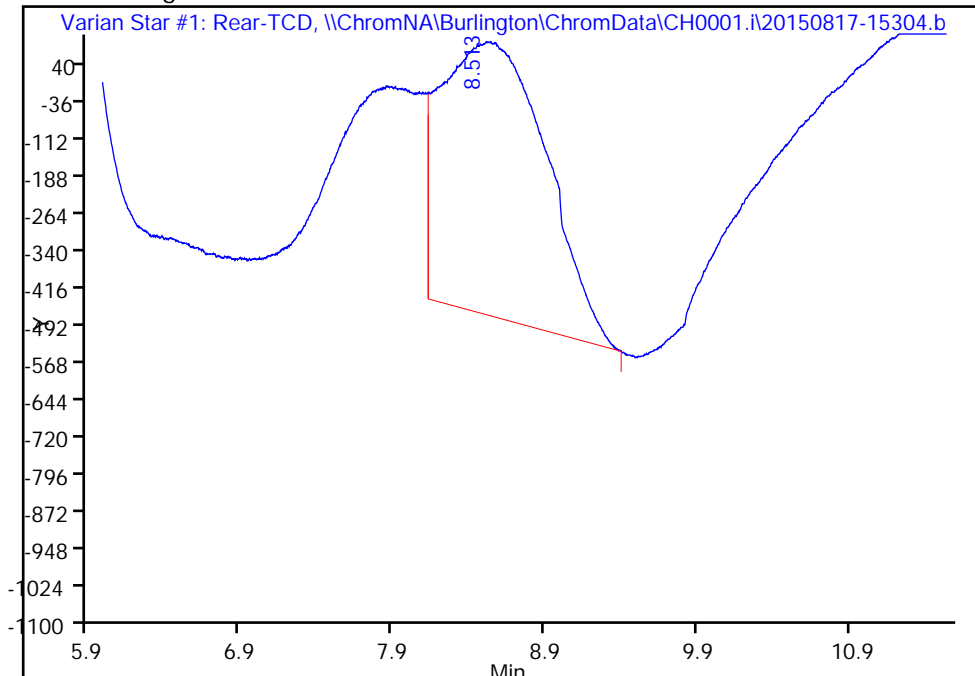
RT: 8.55  
Area: 30155  
Amount: 0.534425  
Amount Units: % v/v

Processing Integration Results



RT: 8.51  
Area: 24610  
Amount: 0.499659  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

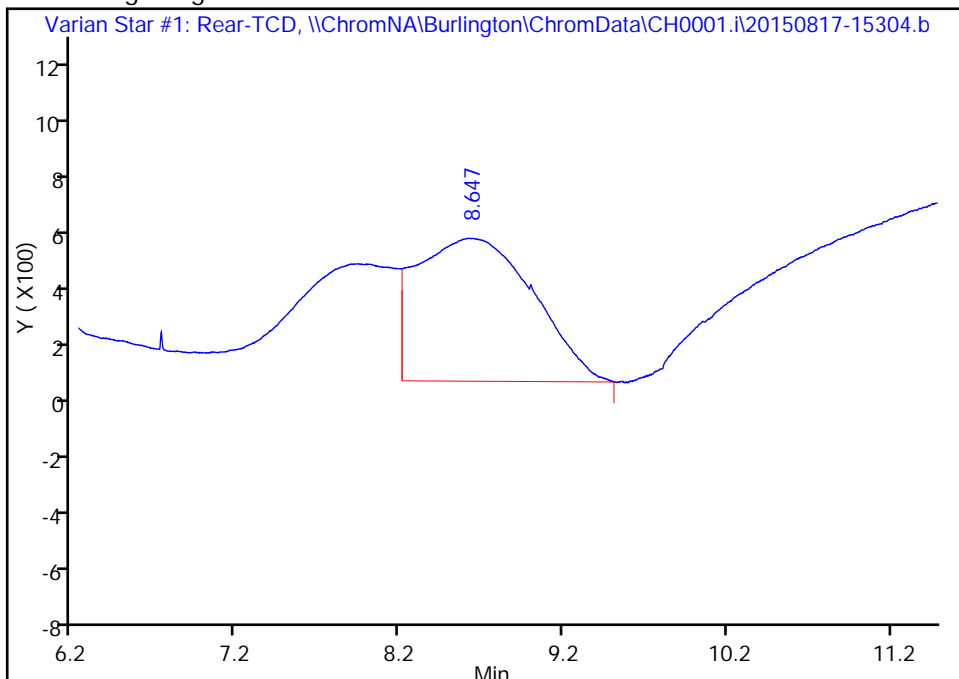
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

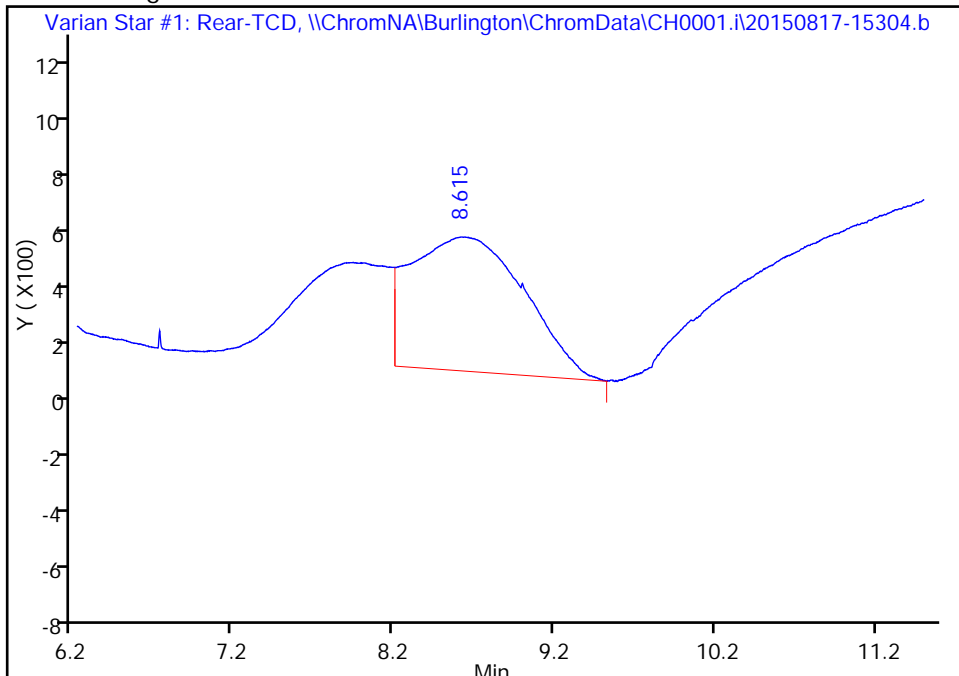
RT: 8.65  
Area: 24251  
Amount: 0.424705  
Amount Units: % v/v

Processing Integration Results



RT: 8.62  
Area: 22661  
Amount: 0.460088  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:31:27  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 17-Aug-2015 11:34:42 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-03  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:05 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 11:48:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.902	1.894	0.008	109517	2.50	2.47	
2 Oxygen	4.527	4.487	0.040	113496	2.50	2.26	
3 Nitrogen	5.640	5.582	0.058	132969	2.50	2.38	
4 Methane	7.998	8.069	-0.071	66751	2.00	1.63	M
5 Carbon monoxide	8.550	8.431	0.119	134011	2.50	2.72	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCAL3i\_00012 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 17-Aug-2015 11:02:57 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-03  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:20:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.905	1.894	0.011	108088	2.50	2.44	
2 Oxygen	4.532	4.487	0.045	110577	2.50	2.20	
3 Nitrogen	5.650	5.582	0.068	128716	2.50	2.31	
4 Methane	7.963	8.069	-0.106	69207	2.00	1.69	
5 Carbon monoxide	8.573	8.431	0.142	132567	2.50	2.69	

Reagents:

AT3CCAL3i\_00012 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-03002-92802-ai\_3c\_limit

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-03-92802-ai\_3c\_limits-1

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	109517	108088	108802.5	1.31
Oxygen	113496	110577	112036.5	2.61
Nitrogen	132969	128716	130842.5	3.25
Methane	66751	69207	67979	3.61
Carbon monoxide	134011	132567	133289	1.08

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	2.47	2.44	2.45	1.31
Oxygen	2.26	2.2	2.23	2.61
Nitrogen	2.38	2.31	2.34	3.25
Methane	1.63	1.69	1.66	3.61
Carbon monoxide	2.72	2.69	2.71	1.08

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:05

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d

Injection Date: 17-Aug-2015 11:34:42

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 9

Client ID:

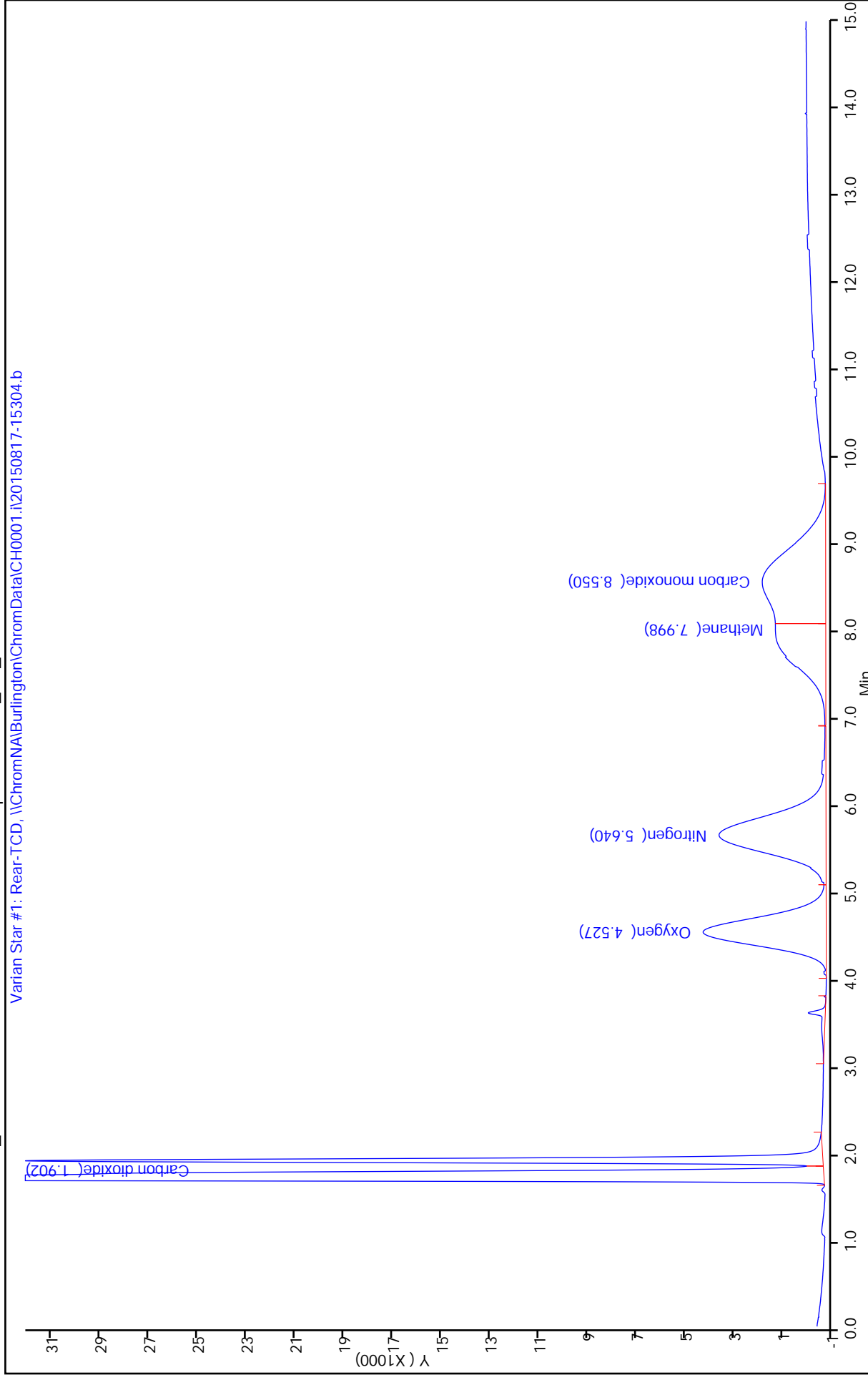
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

Report Date: 19-Aug-2015 16:13:03

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03.d

Injection Date: 17-Aug-2015 11:02:57

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 7

Client ID:

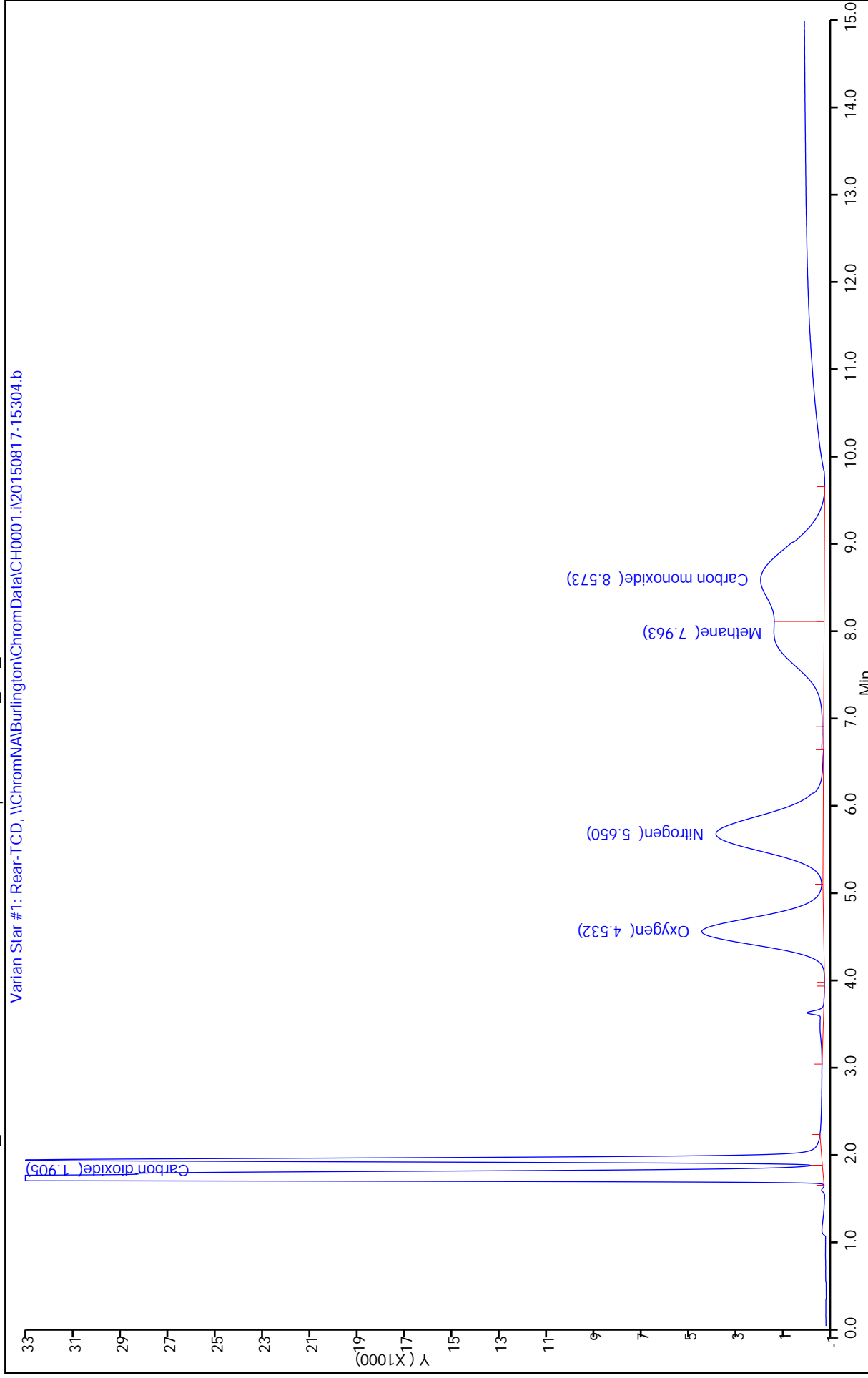
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

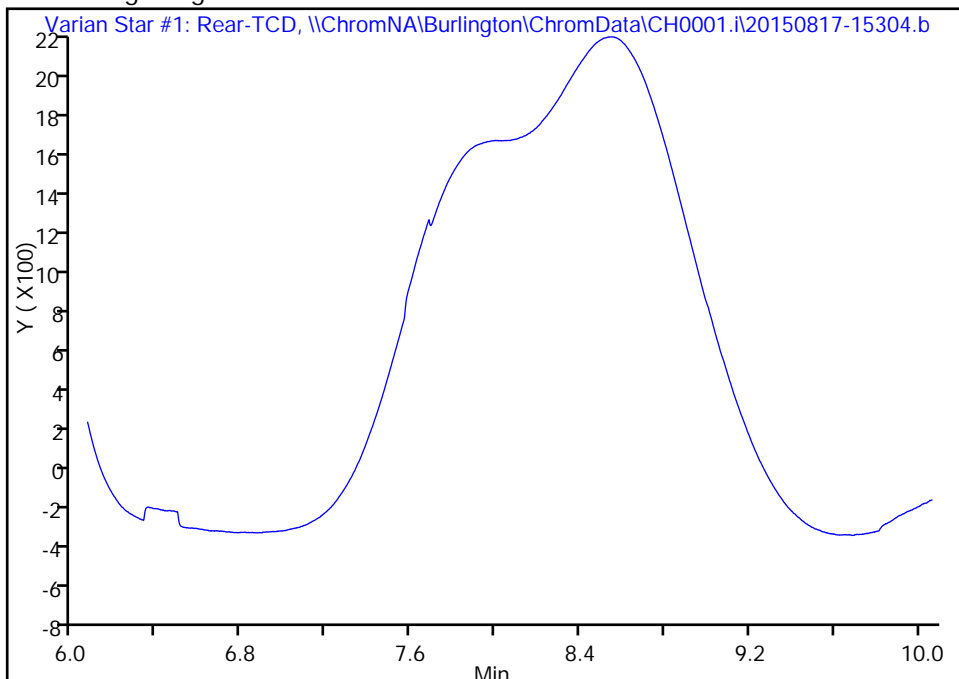
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d  
Injection Date: 17-Aug-2015 11:34:42 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

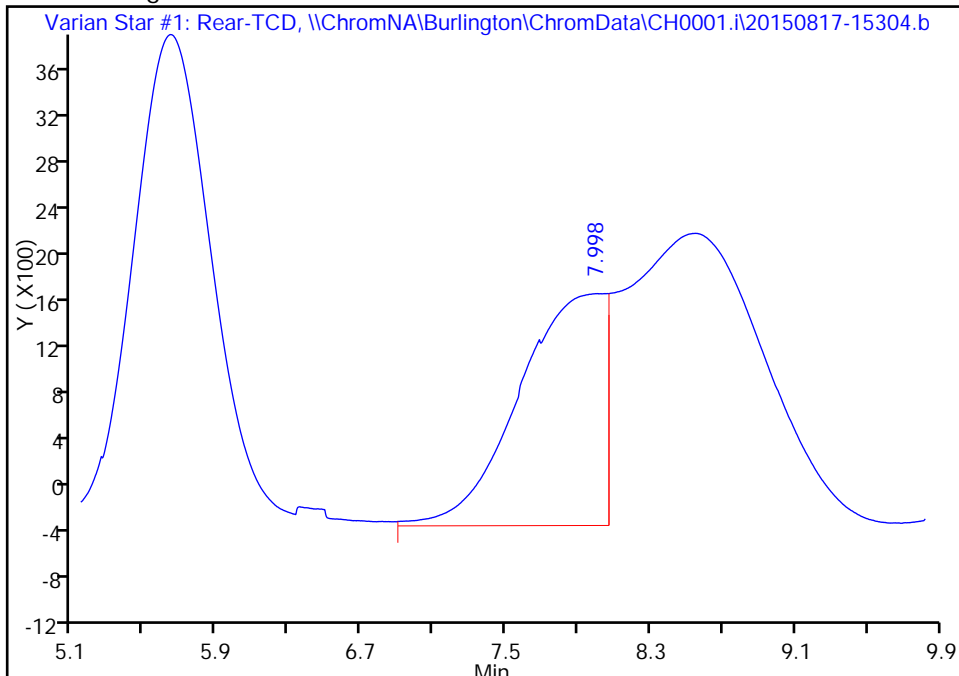
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 8.00  
Area: 66751  
Amount: 1.629556  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:48:17  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

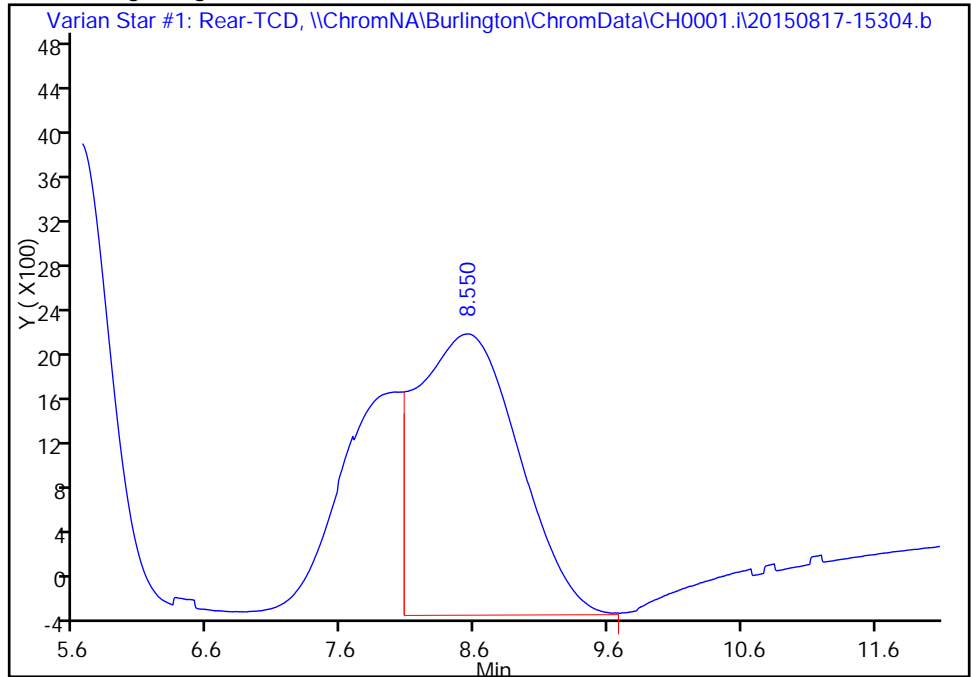
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d  
Injection Date: 17-Aug-2015 11:34:42 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

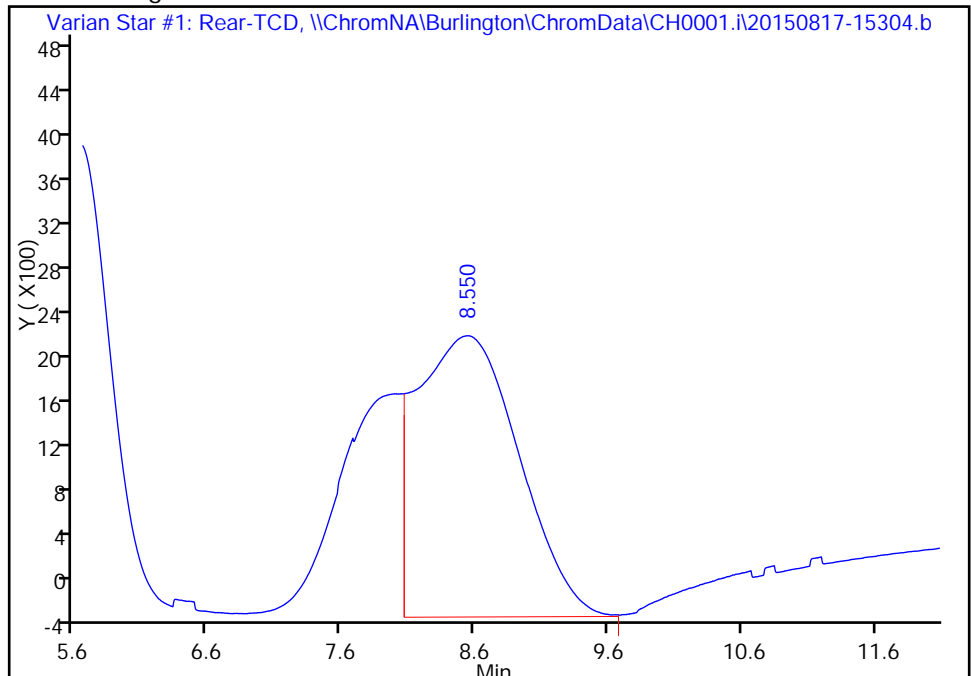
Processing Integration Results

RT: 8.55  
Area: 134011  
Amount: 2.716340  
Amount Units: % v/v



Manual Integration Results

RT: 8.55  
Area: 134011  
Amount: 2.720834  
Amount Units: % v/v



Reviewer: desjardinsb, 18-Aug-2015 11:48:17  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 11  
 Inject. Date: 17-Aug-2015 12:09:30 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: ICIS-04  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:07 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:16:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.905	1.905	0.000	232000	5.00	5.23	
2 Oxygen	4.538	4.538	0.000	236557	5.00	4.71	
3 Nitrogen	5.653	5.653	0.000	264095	5.00	4.73	
4 Methane	8.198	8.198	0.000	163452	4.00	3.99	M
5 Carbon monoxide	8.560	8.560	0.000	254622	5.00	5.17	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCCVs\_00060 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 12  
 Inject. Date: 17-Aug-2015 12:25:24 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: ICIS-04  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:08 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:32:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.894	1.894	0.000	228179	5.00	5.14	
2 Oxygen	4.487	4.487	0.000	230418	5.00	4.59	
3 Nitrogen	5.582	5.582	0.000	257249	5.00	4.61	
4 Methane	8.069	8.069	0.000	158463	4.00	3.87	M
5 Carbon monoxide	8.431	8.431	0.000	250675	5.00	5.09	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCCVs\_00060 Amount Added: 2.00 Units: mL



Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icis-04001-92802-ai\_3c\_lim

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icis-04002-92802-ai\_3c\_lim

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	232000	228179	230089.5	1.66
Oxygen	236557	230418	233487.5	2.63
Nitrogen	264095	257249	260672	2.63
Methane	163452	158463	160957.5	3.1
Carbon monoxide	254622	250675	252648.5	1.56

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	5.23	5.14	5.18	1.66
Oxygen	4.71	4.59	4.65	2.63
Nitrogen	4.73	4.61	4.67	2.63
Methane	3.99	3.87	3.93	3.1
Carbon monoxide	5.17	5.09	5.13	1.56

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:07

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d

Injection Date: 17-Aug-2015 12:09:30

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: icis

Worklist Smp#: 11

Client ID:

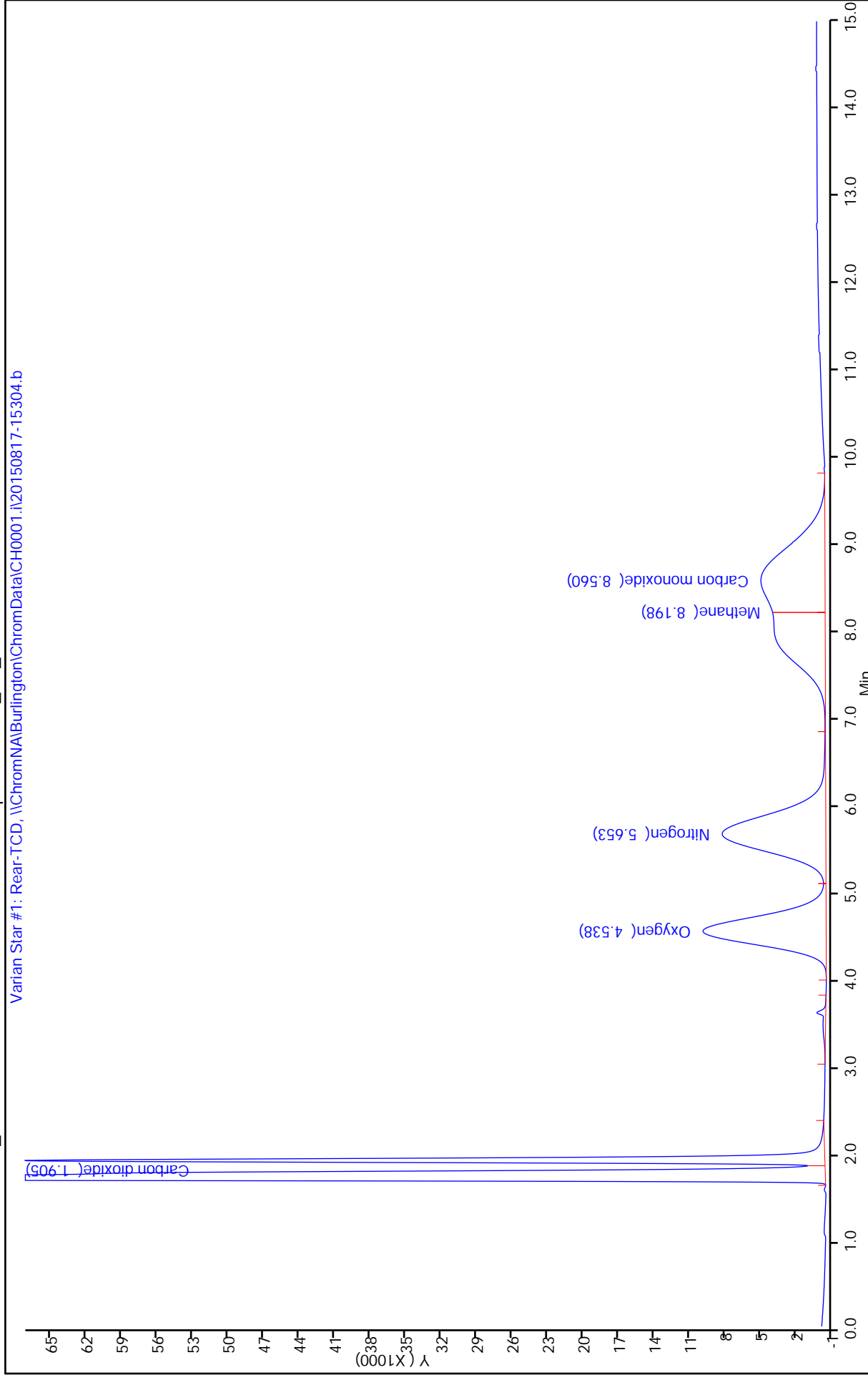
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

Report Date: 19-Aug-2015 16:13:09

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d

Injection Date: 17-Aug-2015 12:25:24

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: icis

Worklist Smp#: 12

Client ID:

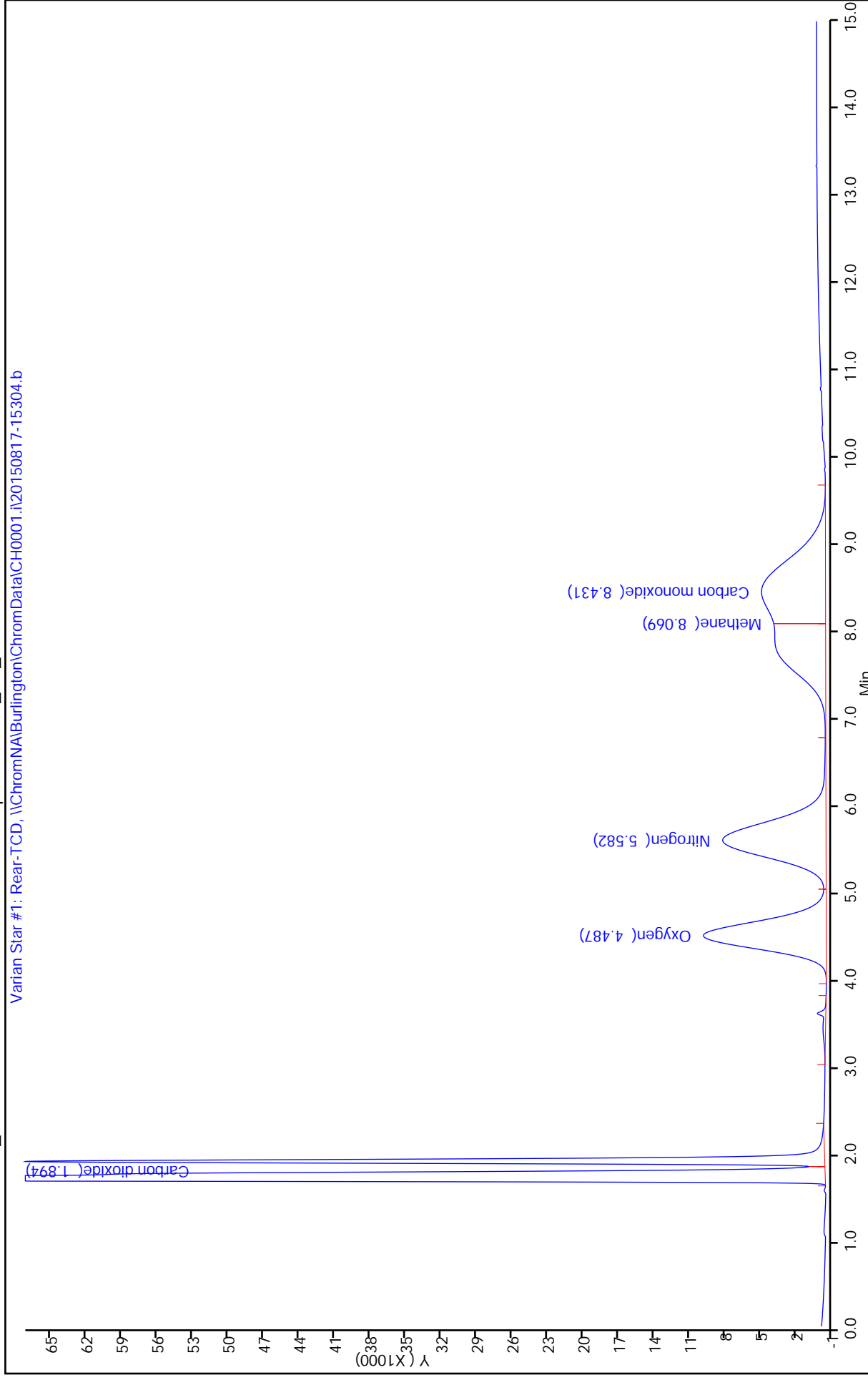
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

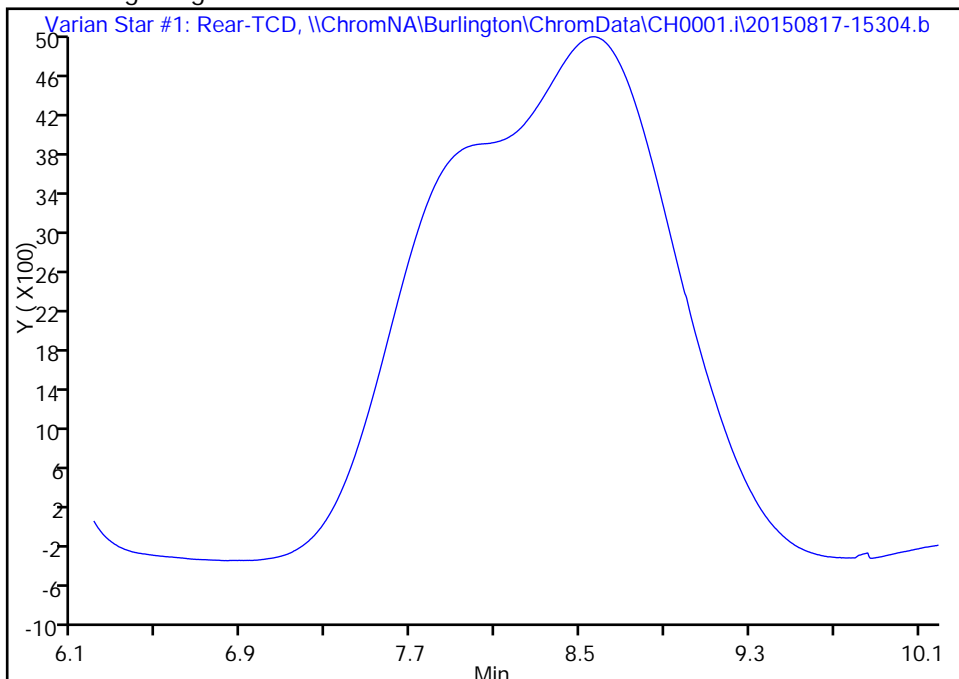
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d  
Injection Date: 17-Aug-2015 12:09:30 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

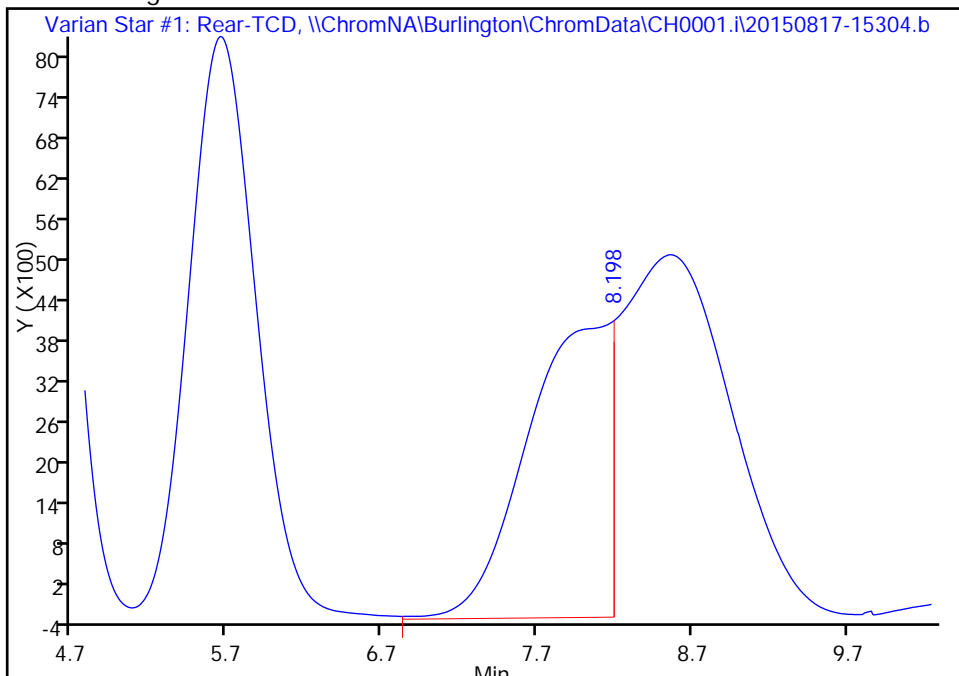
Not Detected  
Expected RT: 8.20

Processing Integration Results



RT: 8.20  
Area: 163452  
Amount: 3.990264  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:09:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

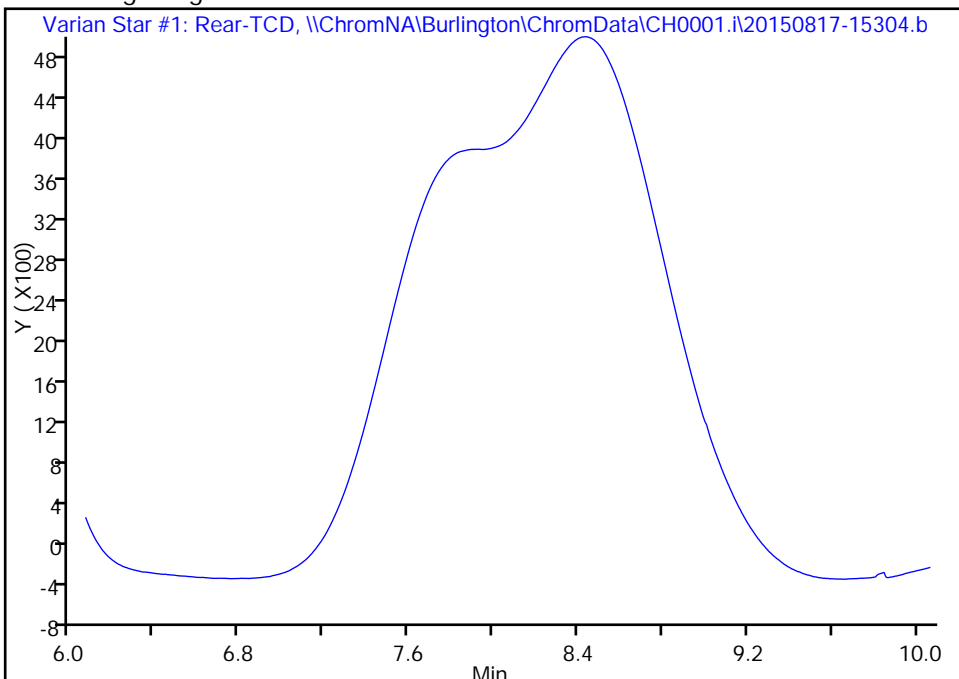
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d  
Injection Date: 17-Aug-2015 12:25:24 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 12  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

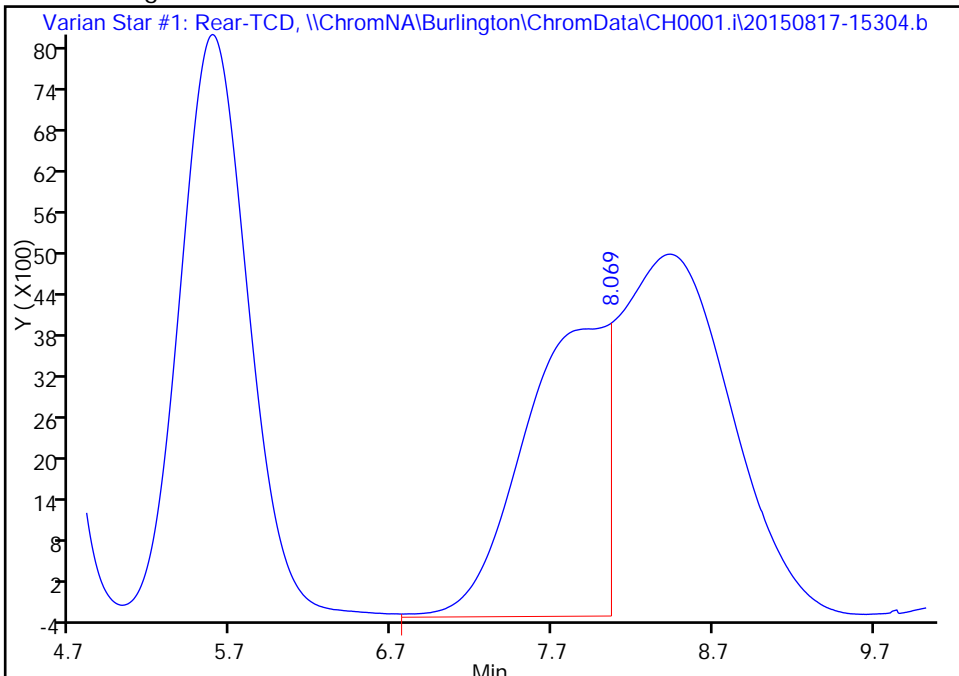
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 8.07  
Area: 158463  
Amount: 3.868471  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:10:26  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

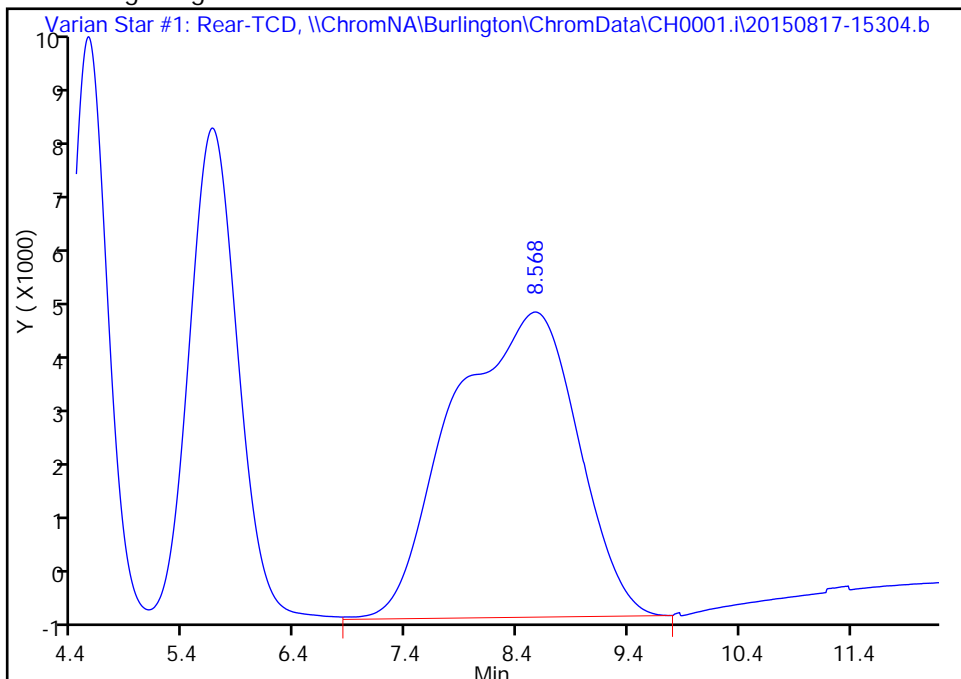
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d  
Injection Date: 17-Aug-2015 12:09:30 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

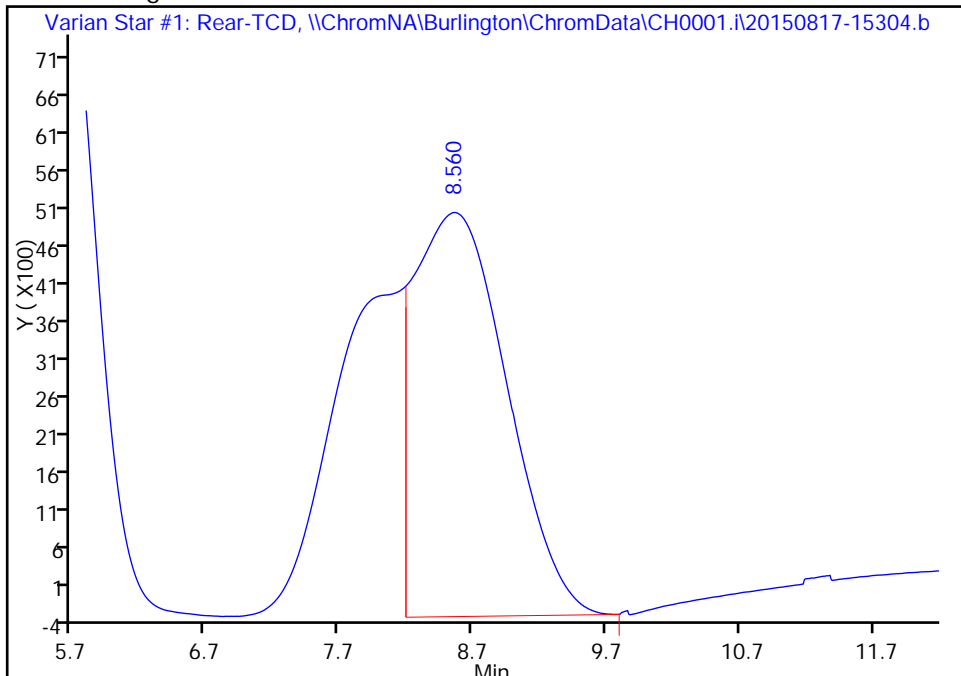
RT: 8.57  
Area: 418043  
Amount: 8.812429  
Amount Units: % v/v

Processing Integration Results



RT: 8.56  
Area: 254622  
Amount: 5.169608  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:09:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

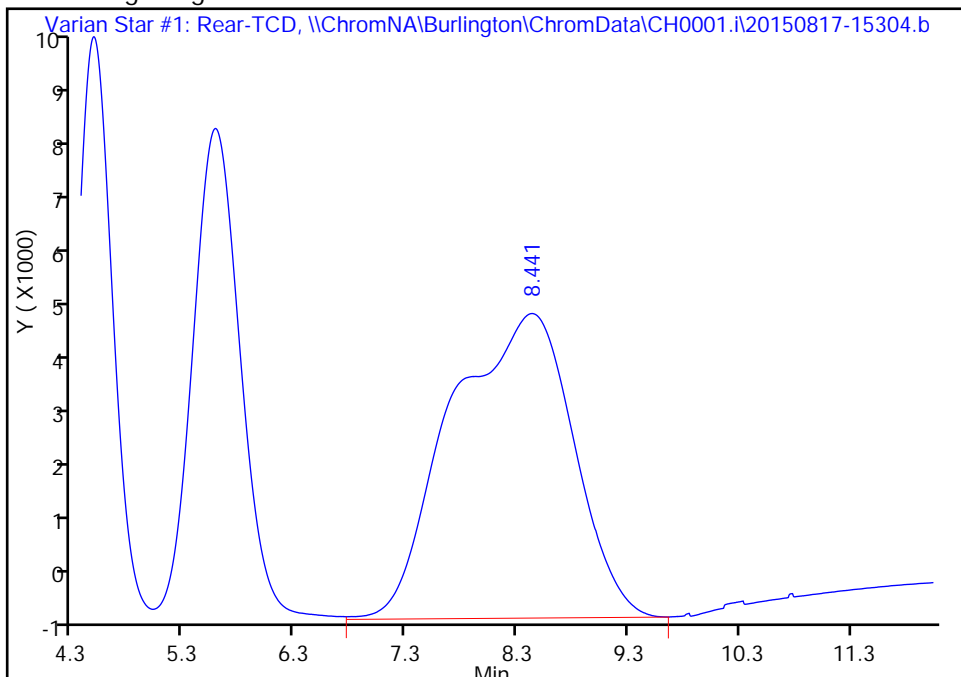
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d  
Injection Date: 17-Aug-2015 12:25:24 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 12  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

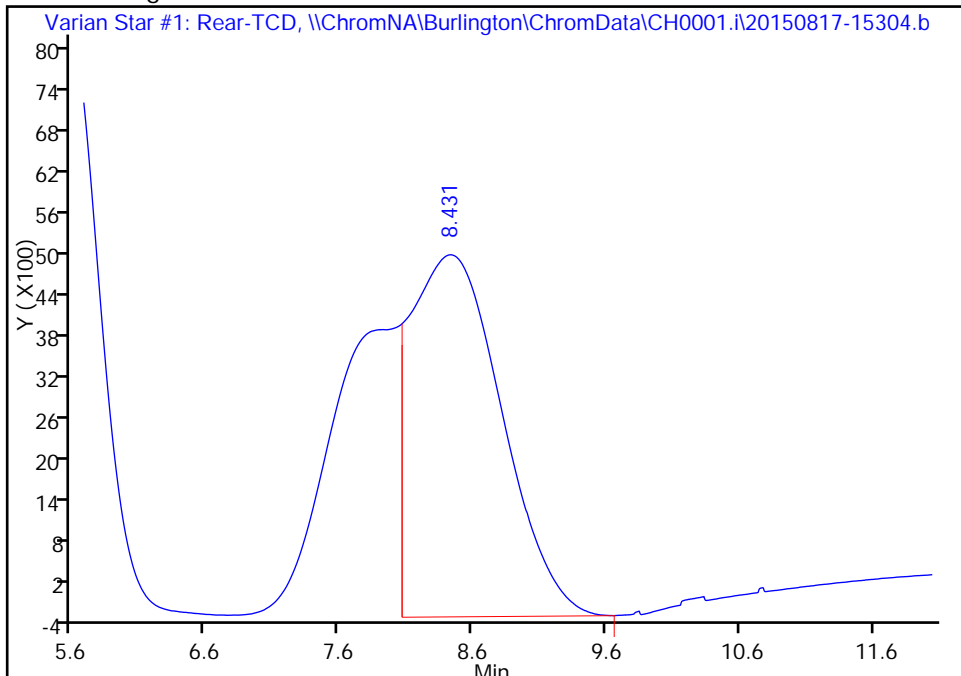
RT: 8.44  
Area: 409095  
Amount: 6.163696  
Amount Units: % v/v

Processing Integration Results



RT: 8.43  
Area: 250675  
Amount: 5.089472  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:10:26  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 15  
 Inject. Date: 17-Aug-2015 13:16:43 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO CAL1  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:12 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:24:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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5 Carbon monoxide	8.557	8.431	0.126	4702	0.1000	0.0955	M
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QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCOCaI0.1%\_00005 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 13  
 Inject. Date: 17-Aug-2015 12:45:00 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO CAL1  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:10 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:23:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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5 Carbon monoxide	8.612	8.431	0.181	4689	0.1000	0.0952	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

AT3CCOCaI0.1%\_00005 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co cal1002-92802-ai\_3c\_lim

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co cal1-92802-ai\_3c\_limits

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon monoxide	4702	4689	4695.5	0.28

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon monoxide	0.1	0.1	0.1	0.28

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1002.d

Injection Date: 17-Aug-2015 13:16:43

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 15

Client ID:

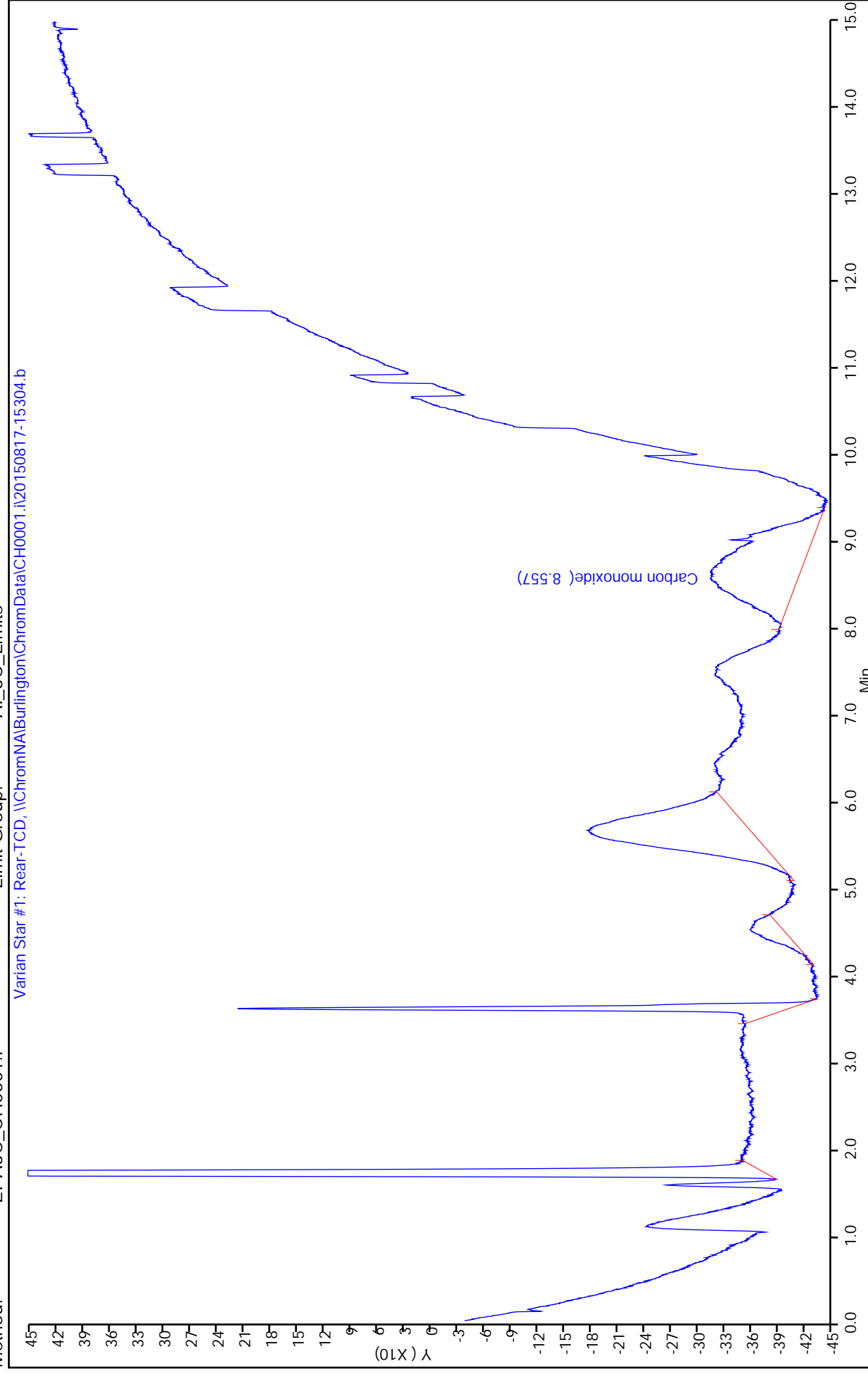
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1.d

Injection Date: 17-Aug-2015 12:45:00

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 13

Client ID:

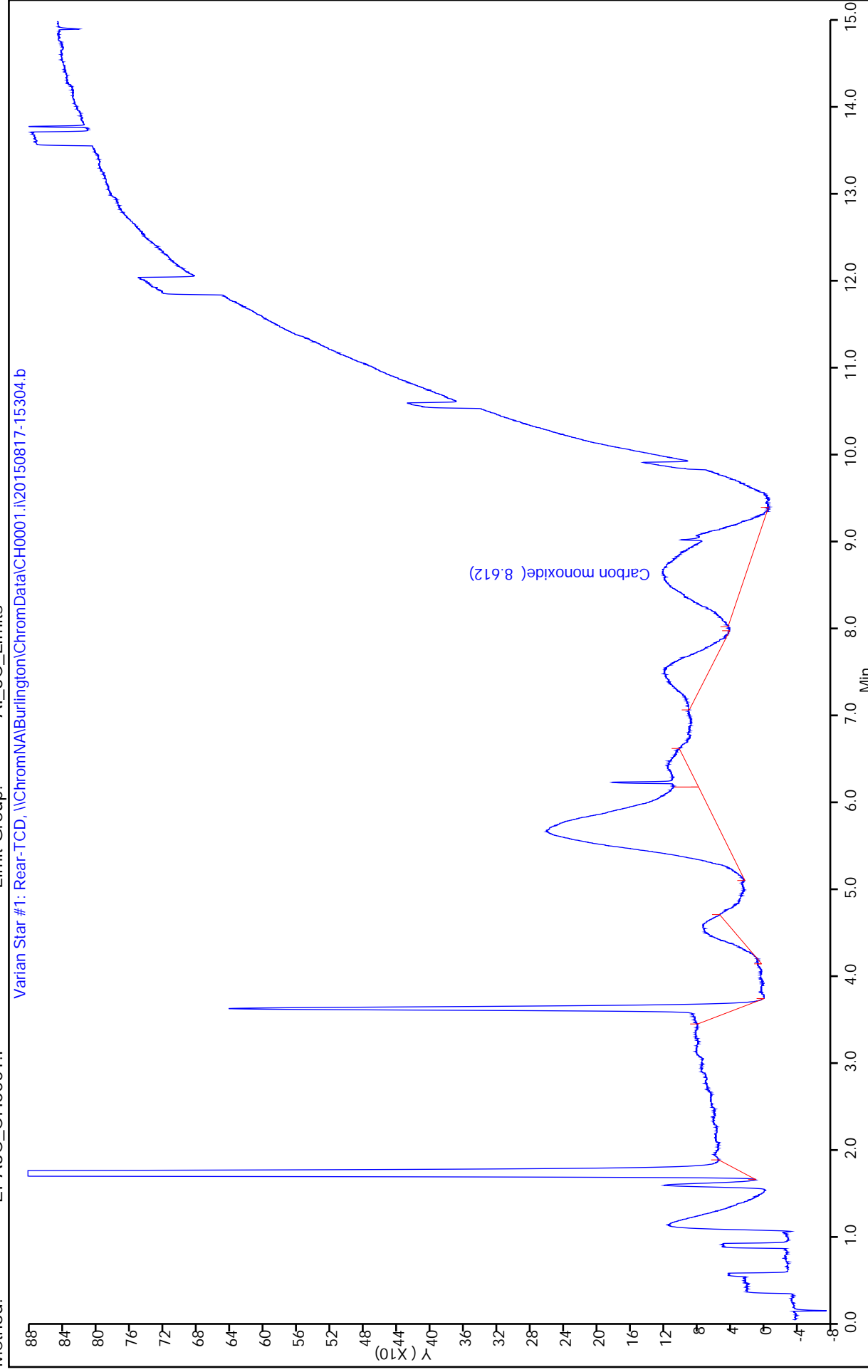
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



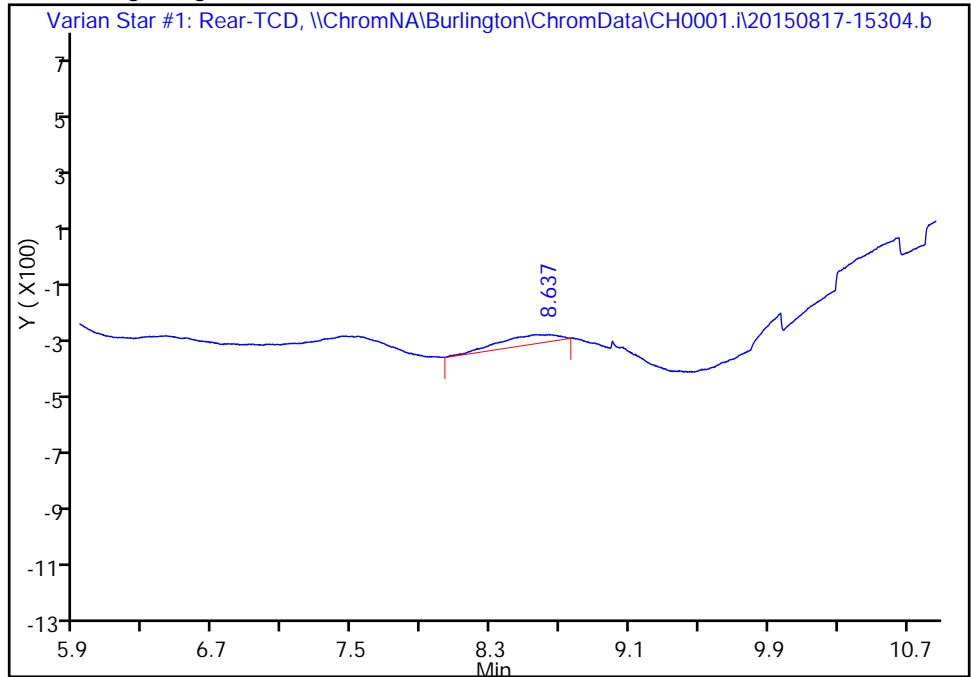
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1002.d  
Injection Date: 17-Aug-2015 13:16:43 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

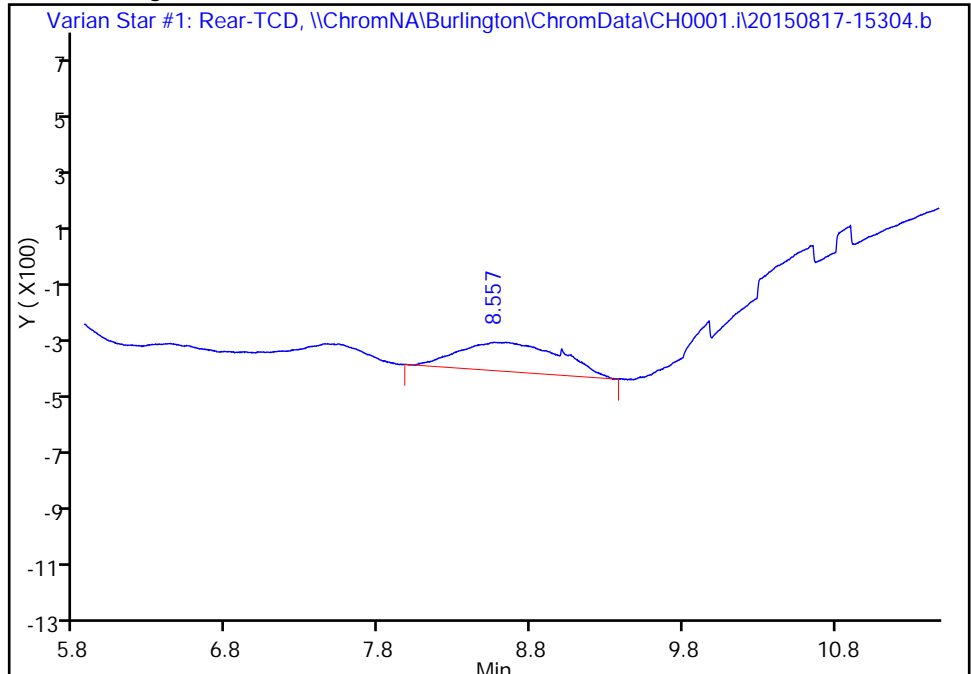
RT: 8.64  
Area: 772  
Amount: 0.016958  
Amount Units: % v/v

Processing Integration Results



RT: 8.56  
Area: 4702  
Amount: 0.095465  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:24:12  
Audit Action: Manually Integrated  
Audit Reason: Baseline Smoothing

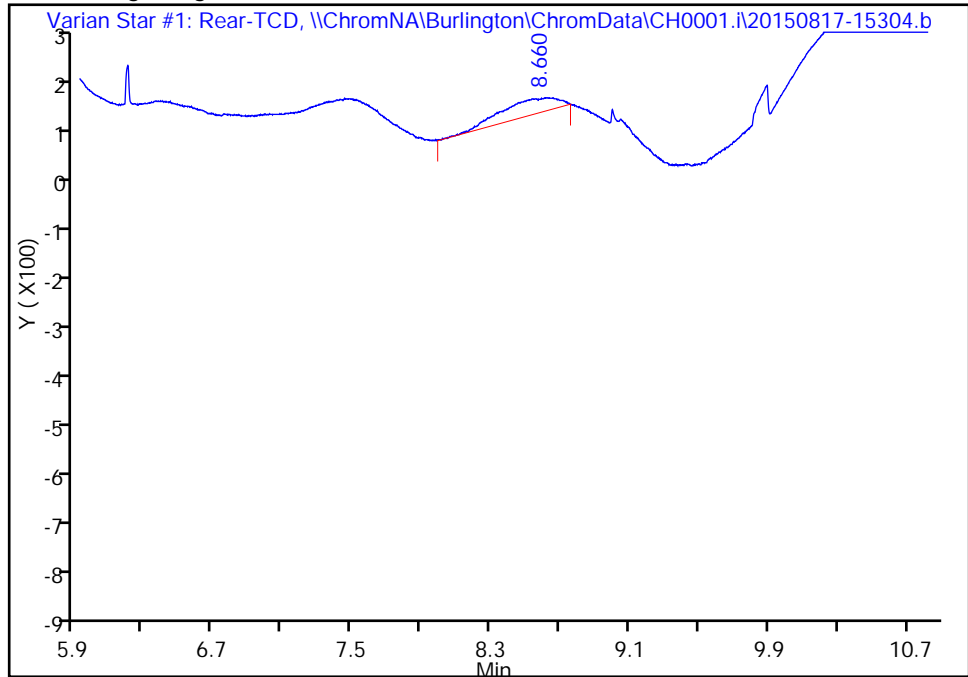
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1.d  
Injection Date: 17-Aug-2015 12:45:00 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 13  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

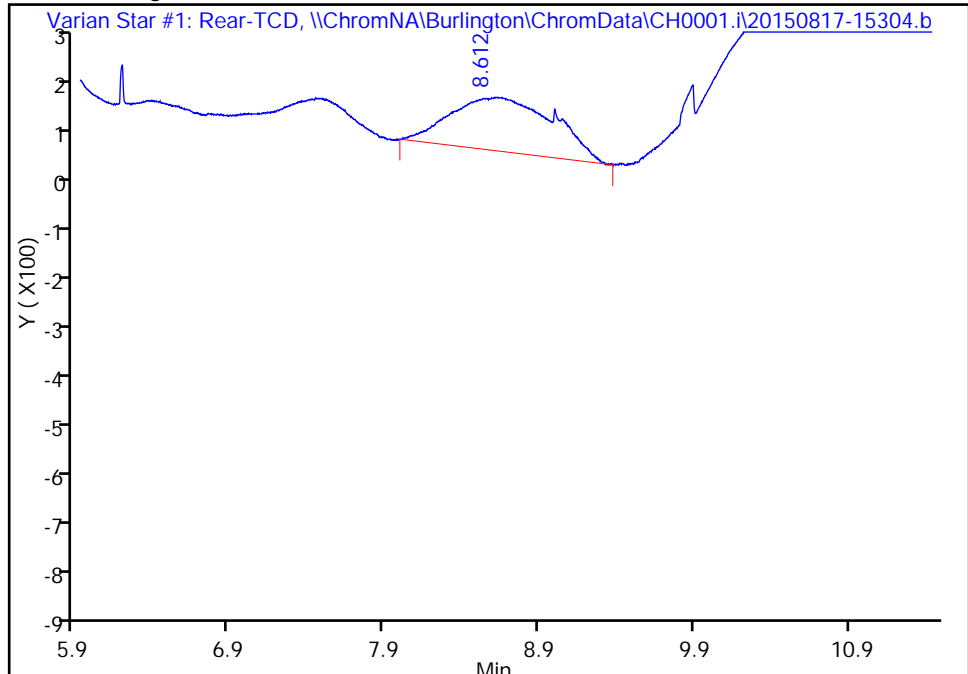
RT: 8.66  
Area: 686  
Amount: 0.017756  
Amount Units: % v/v

Processing Integration Results



RT: 8.61  
Area: 4689  
Amount: 0.095201  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:23:06  
Audit Action: Manually Integrated  
Audit Reason: Baseline Smoothing

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 17  
 Inject. Date: 17-Aug-2015 13:48:30 ALS Bottle#: 0 Worklist Smp#: 17  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO 10%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:13 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:24:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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5 Carbon monoxide	8.603	8.431	0.172	482484	10.0	9.80	
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Reagents:

AT3CCOs\_00004 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 18  
 Inject. Date: 17-Aug-2015 14:04:21 ALS Bottle#: 0 Worklist Smp#: 18  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO 10%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:14 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:24:56

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

5 Carbon monoxide	8.615	8.431	0.184	481454	10.0	9.77	
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Reagents:

AT3CCOs\_00004 Amount Added: 2.00 Units: mL



Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co 10%001-92802-ai\_3c\_limi

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co 10%002-92802-ai\_3c\_limi

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon monoxide	482484	481454	481969	0.21

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon monoxide	9.8	9.77	9.79	0.21

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%001.d

Injection Date: 17-Aug-2015 13:48:30

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 17

Client ID:

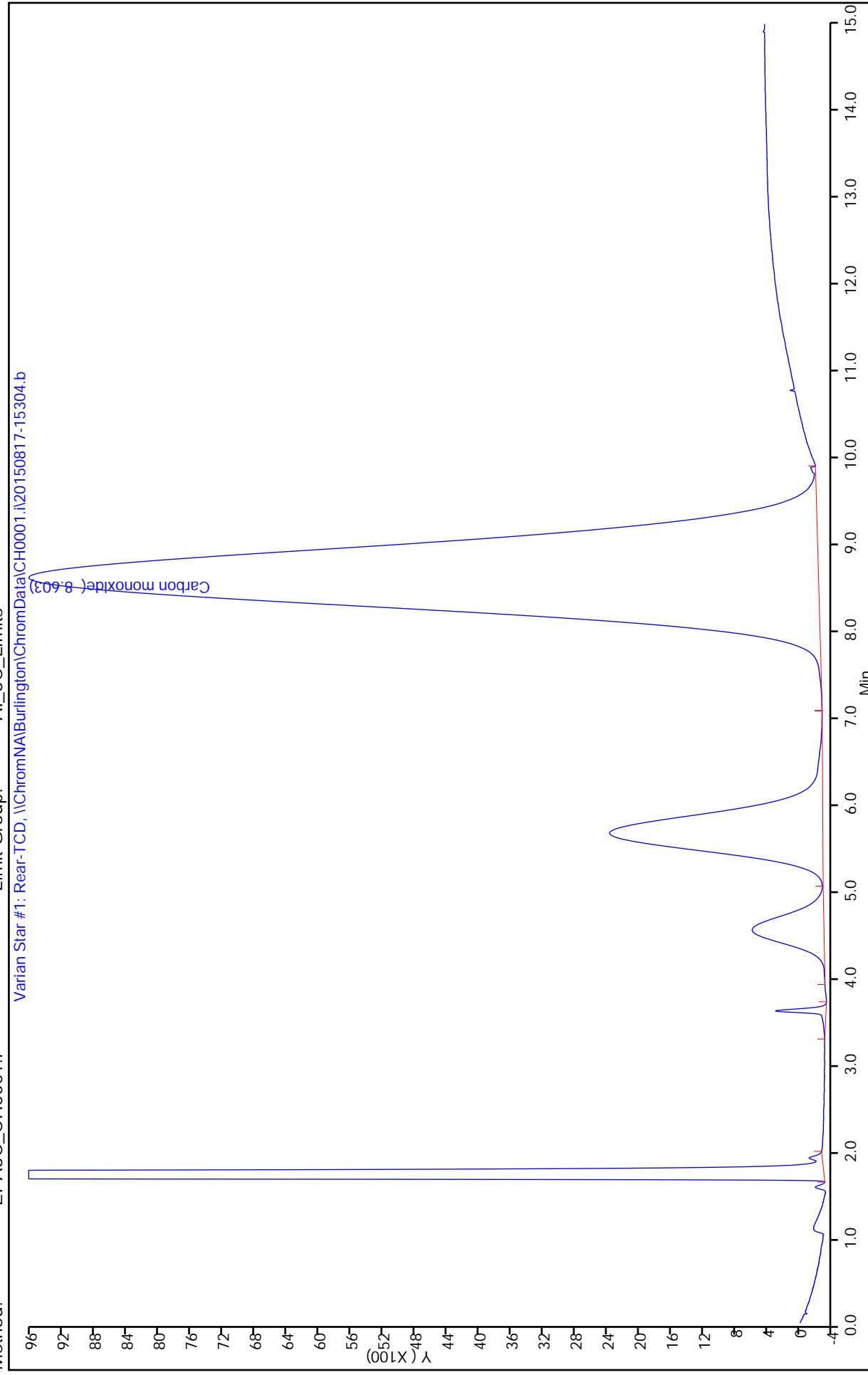
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%002.d

Injection Date: 17-Aug-2015 14:04:21

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 18

Client ID:

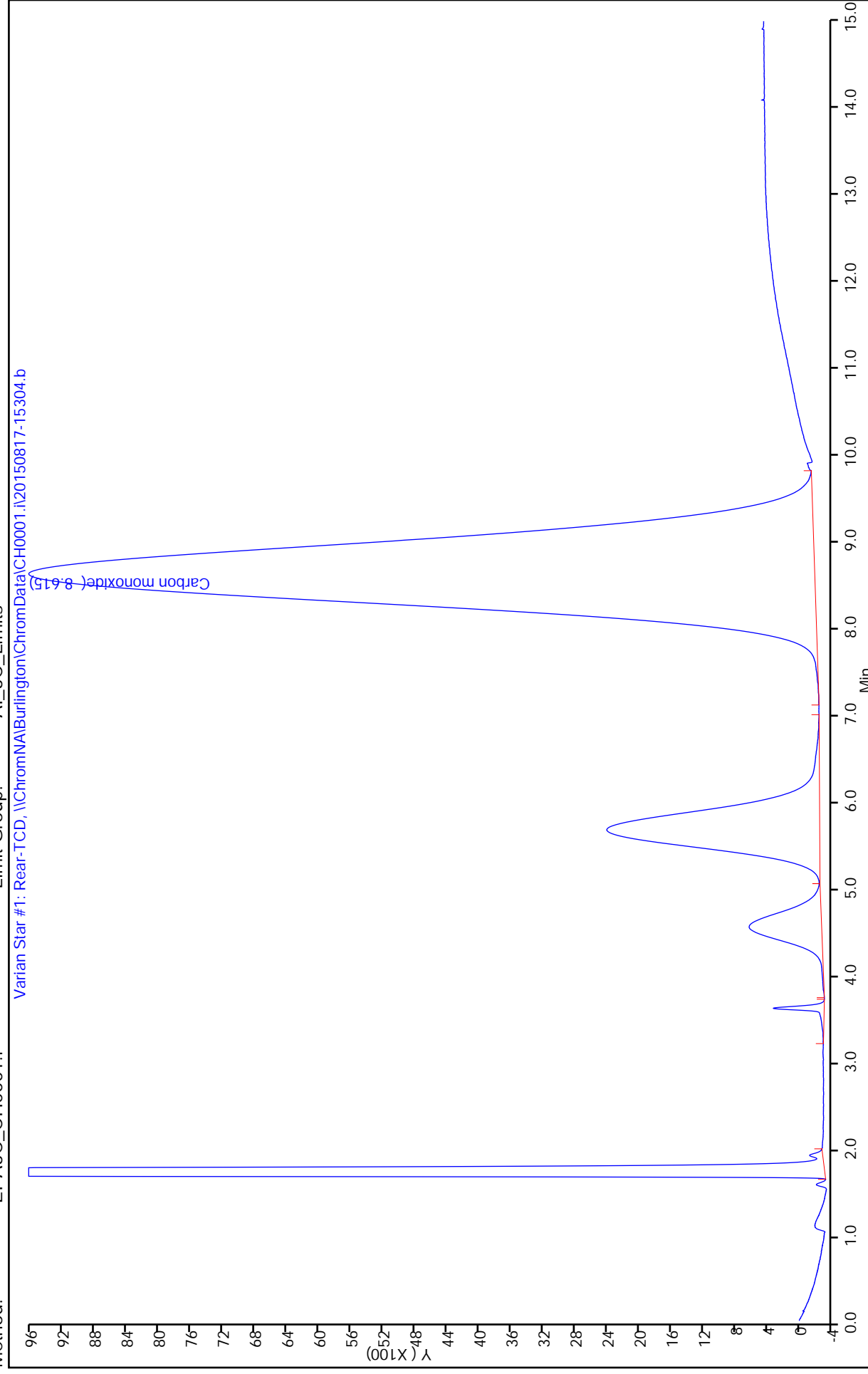
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 23  
 Inject. Date: 17-Aug-2015 15:46:20 ALS Bottle#: 0 Worklist Smp#: 23  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CH4 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:19 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

4 Methane	7.760	8.069	-0.309	4384076	99.0	107.0	
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Reagents:

AT3CMETHs\_00007 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 24  
 Inject. Date: 17-Aug-2015 16:02:11 ALS Bottle#: 0 Worklist Smp#: 24  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CH4 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:20 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

4 Methane	7.771	8.069	-0.298	4399378	99.0	107.4	
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Reagents:

AT3CMETHs\_00007 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ch4 100%001-92802-ai\_3c\_li

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ch4 100%002-92802-ai\_3c\_li

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Methane	4384076	4399378	4391727	0.35

Analyte	Conc1	Conc2	Avg Conc	RPD
Methane	107.03	107.4	107.21	0.35

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%001.d  
Injection Date: 17-Aug-2015 15:46:20 Instrument ID: CH0001.i

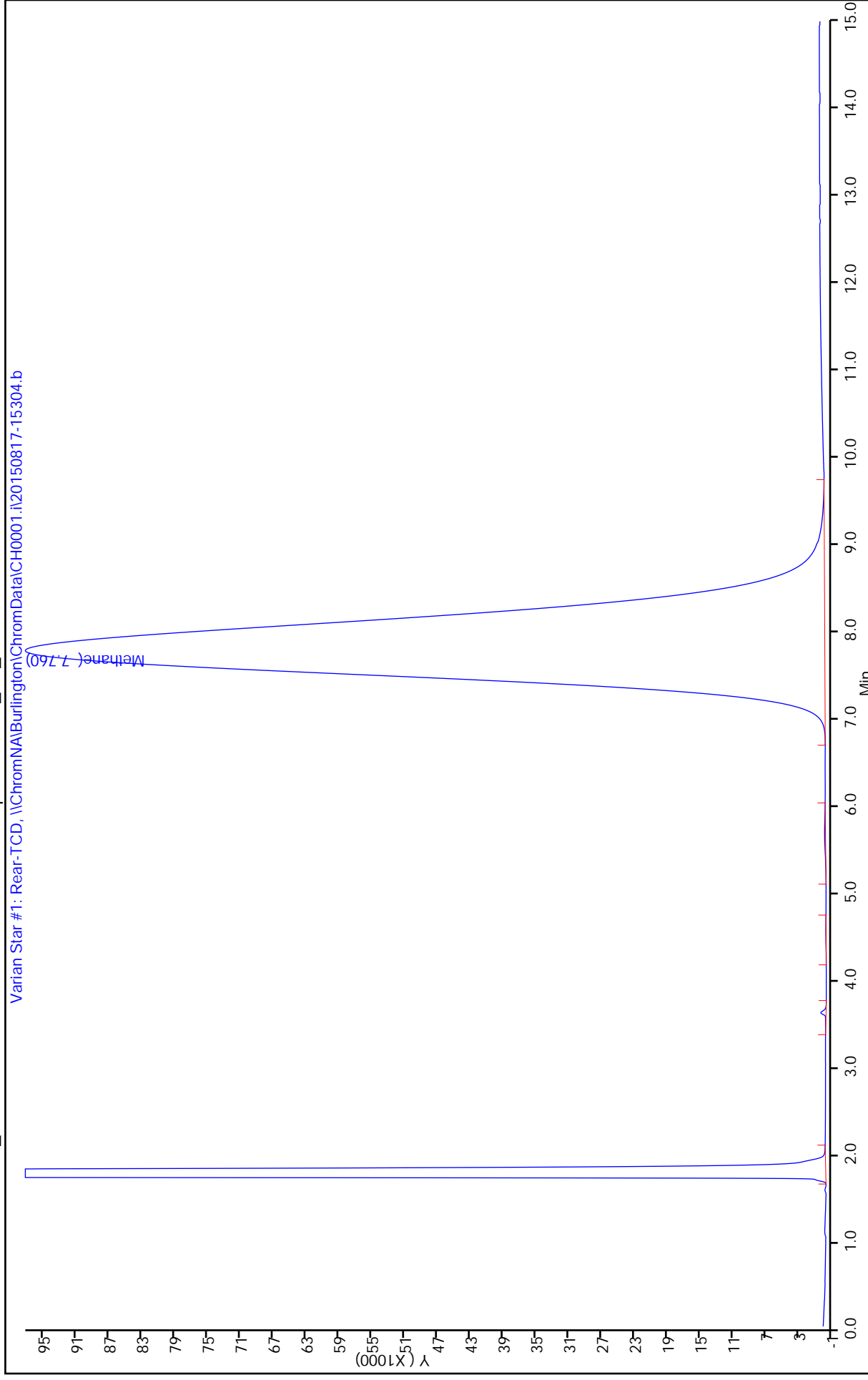
Operator ID: BPL  
Worklist Smp#: 23

Lims ID: ic

Client ID:

Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits

ALS Bottle#: 0



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%002.d

Injection Date: 17-Aug-2015 16:02:11

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 24

Client ID:

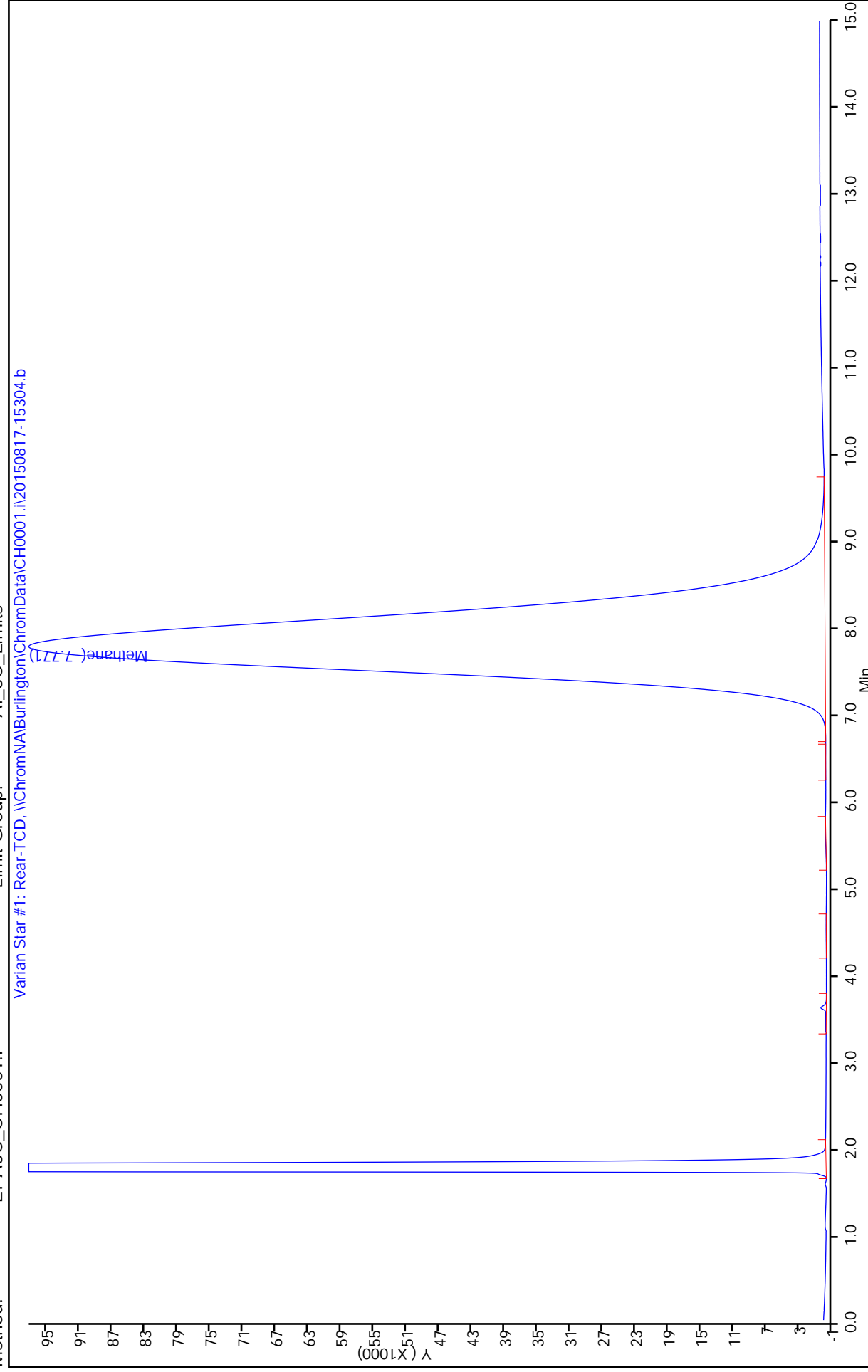
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits





TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 20  
 Inject. Date: 17-Aug-2015 14:58:43 ALS Bottle#: 0 Worklist Smp#: 20  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:16 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:25:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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1 Carbon dioxide	1.857	1.894	-0.037	4474498	100.0	100.8	
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Reagents:

AT3CCO2s\_00009 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 21  
 Inject. Date: 17-Aug-2015 15:14:35 ALS Bottle#: 0 Worklist Smp#: 21  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:25:23

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Carbon dioxide	1.858	1.894	-0.036	4511134	100.0	101.6	
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Reagents:

AT3CCO2s\_00009 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co2 100%001-92802-ai\_3c\_li

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co2 100%002-92802-ai\_3c\_li

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	4474498	4511134	4492816	0.82

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	100.81	101.64	101.22	0.82

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:16

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%001.d

Injection Date: 17-Aug-2015 14:58:43

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 20

Client ID:

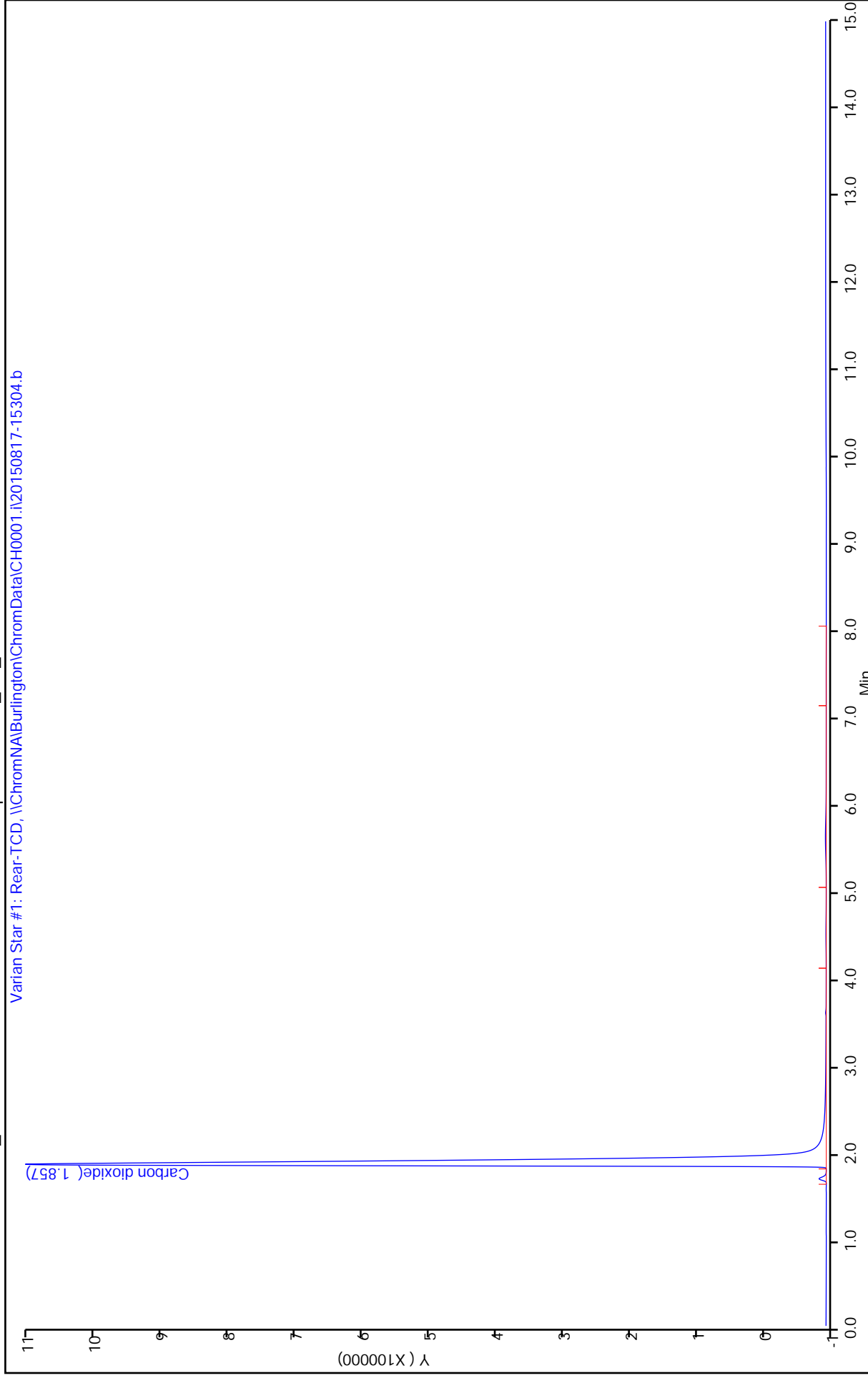
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

Report Date: 19-Aug-2015 16:13:18

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%002.d

Injection Date: 17-Aug-2015 15:14:35

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 21

Client ID:

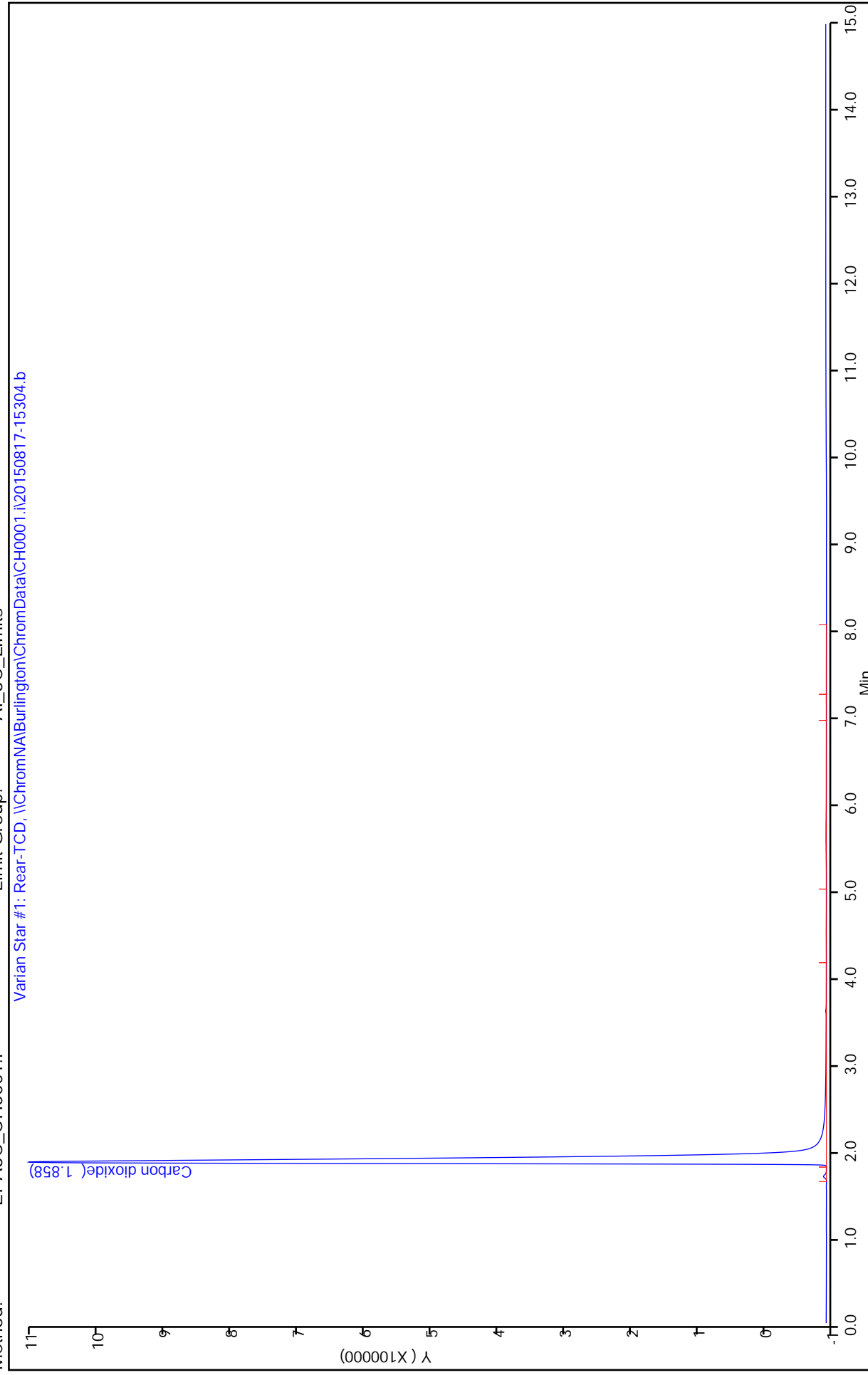
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 27  
 Inject. Date: 17-Aug-2015 16:49:48 ALS Bottle#: 0 Worklist Smp#: 27  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: zero air  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:22 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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2 Oxygen	4.482	4.487	-0.005	974686	22.0	19.4	
3 Nitrogen	5.539	5.582	-0.043	3996994	78.0	71.6	

Reagents:

AT3Czeroair\_00007 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 25  
 Inject. Date: 17-Aug-2015 16:18:02 ALS Bottle#: 0 Worklist Smp#: 25  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: zero air  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:21 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

2 Oxygen	4.521	4.487	0.034	986213	22.0	19.6	
3 Nitrogen	5.577	5.582	-0.005	4009010	78.0	71.8	

Reagents:

AT3Czeroair\_00007 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\zero air002-92802-ai\_3c\_li

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\zero air-92802-ai\_3c\_limit

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Oxygen	974686	986213	980449.5	1.18
Nitrogen	3996994	4009010	4003002	0.3

Analyte	Conc1	Conc2	Avg Conc	RPD
Oxygen	19.4	19.63	19.52	1.18
Nitrogen	71.59	71.81	71.7	0.3

----- NMOC Correction-----  
NMOC or N2 not found in quan file, NMOC correction not applied



Report Date: 19-Aug-2015 16:13:23

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air002.d

Injection Date: 17-Aug-2015 16:49:48

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 27

Client ID:

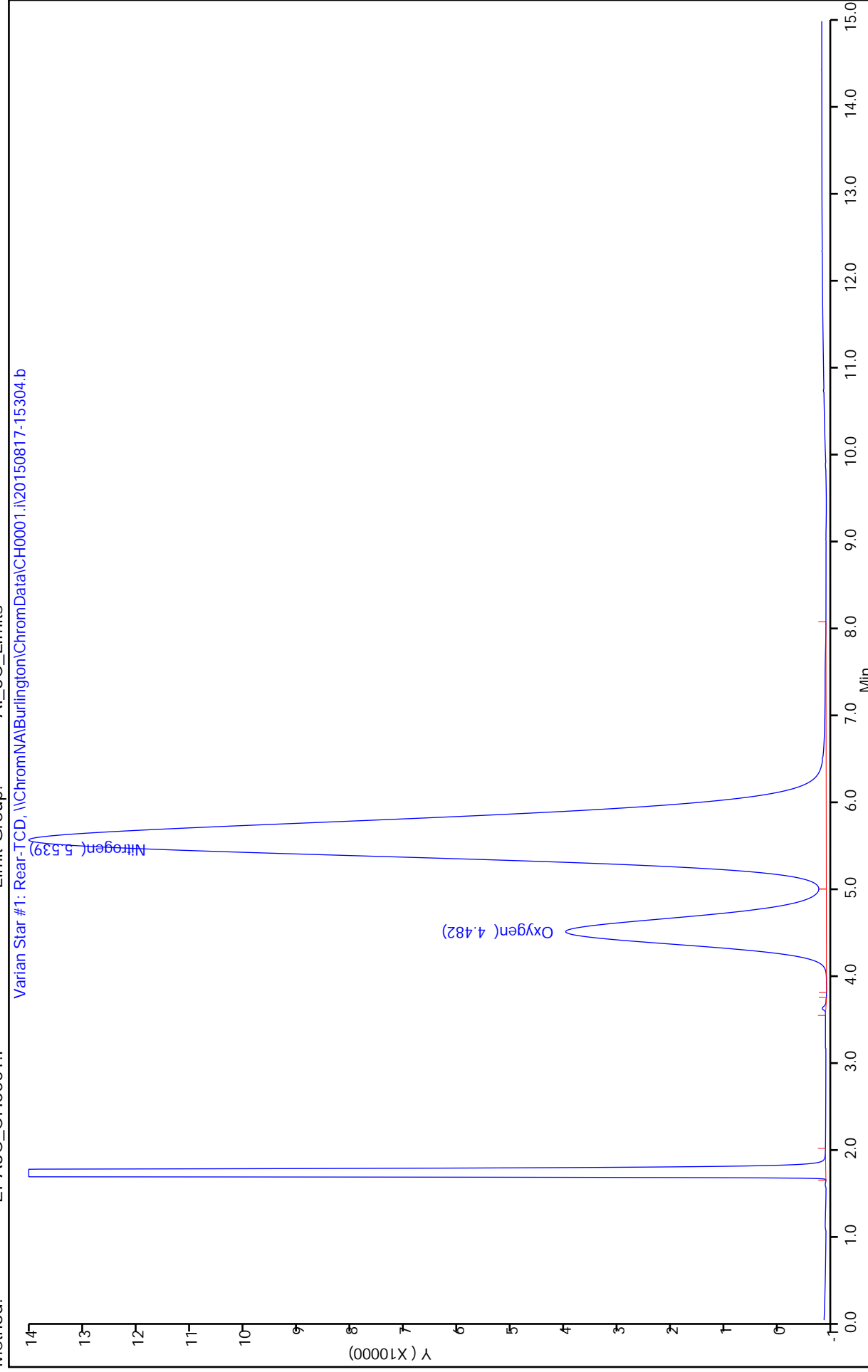
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:13:22

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air.d

Injection Date: 17-Aug-2015 16:18:02

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 25

Client ID:

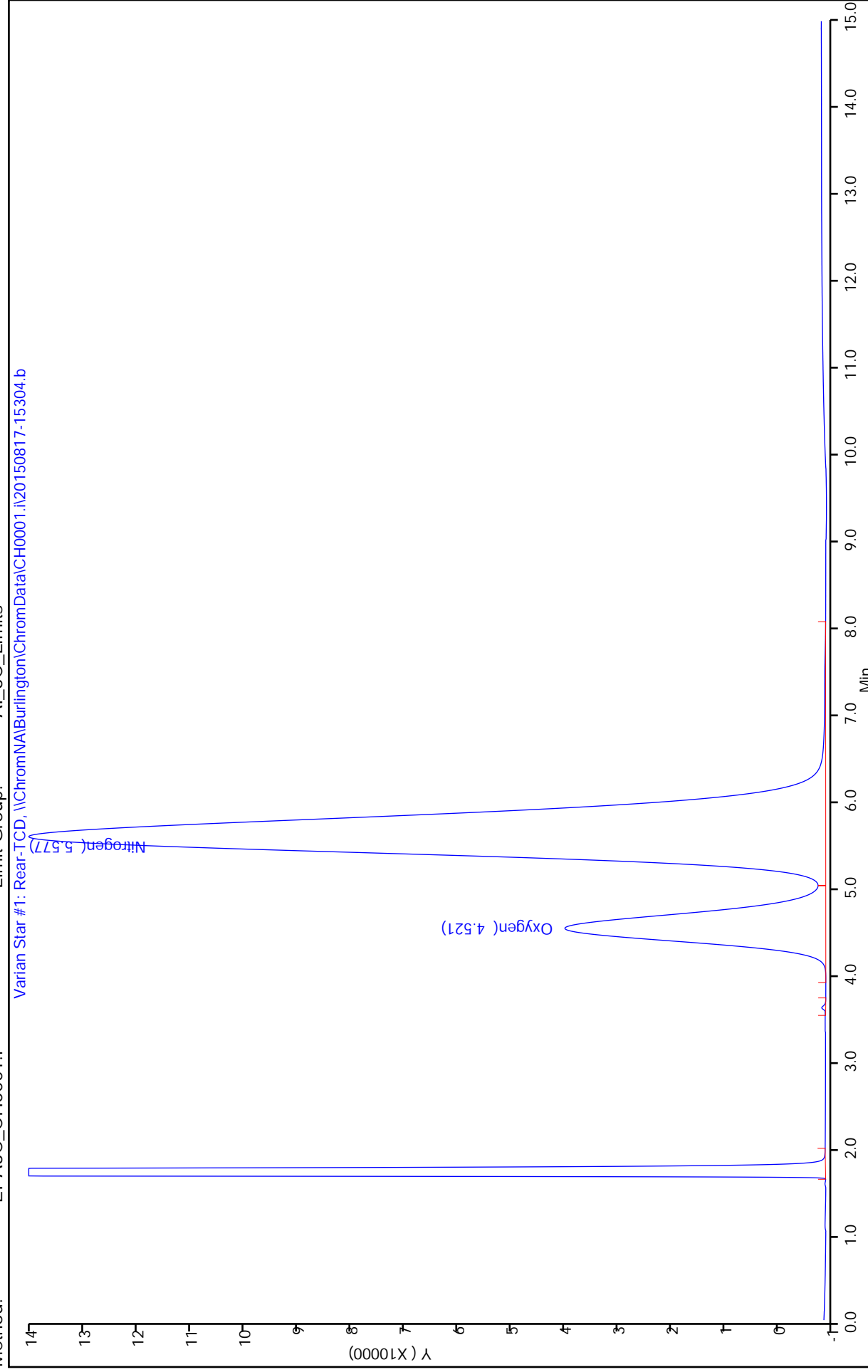
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 30  
 Inject. Date: 17-Aug-2015 17:37:25 ALS Bottle#: 0 Worklist Smp#: 30  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: N2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:25 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:28:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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3 Nitrogen	5.568	5.582	-0.014	5088530	100.0	91.1	
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Reagents:

ATnitrogens\_00008 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 28  
 Inject. Date: 17-Aug-2015 17:05:40 ALS Bottle#: 0 Worklist Smp#: 28  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: N2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:24 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:27:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

3 Nitrogen	5.539	5.582	-0.043	5068877	100.0	90.8	
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Reagents:

ATnitrogens\_00008 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\n2 100%002-92802-ai\_3c\_lim

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\n2 100%-92802-ai\_3c\_limits

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Nitrogen	5088530	5068877	5078703.5	0.39

Analyte	Conc1	Conc2	Avg Conc	RPD
Nitrogen	91.14	90.79	90.97	0.39

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:26

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\2 100%002.d

Injection Date: 17-Aug-2015 17:37:25

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 30

Client ID:

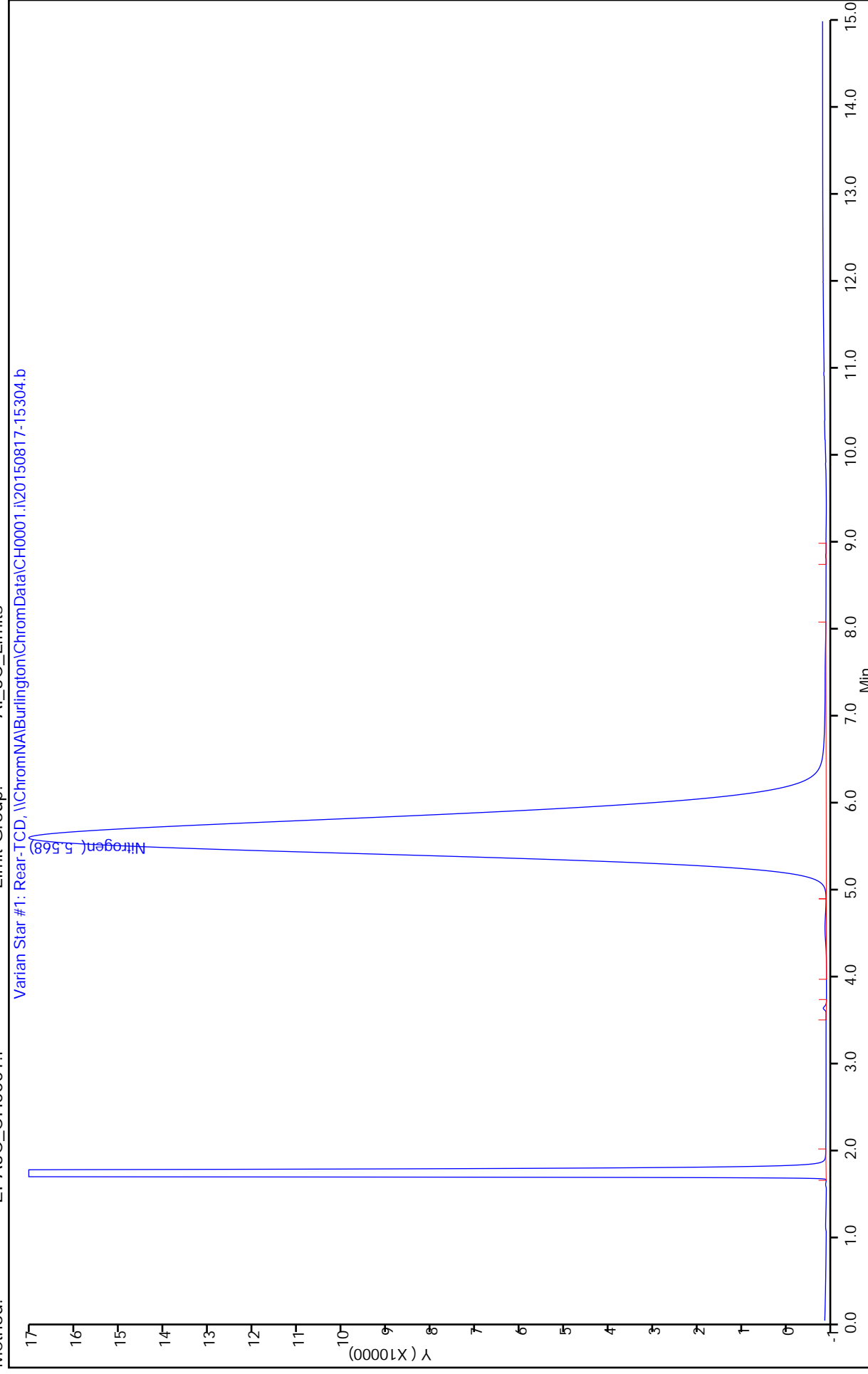
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:13:24

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ln2 100%.d

Injection Date: 17-Aug-2015 17:05:40

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 28

Client ID:

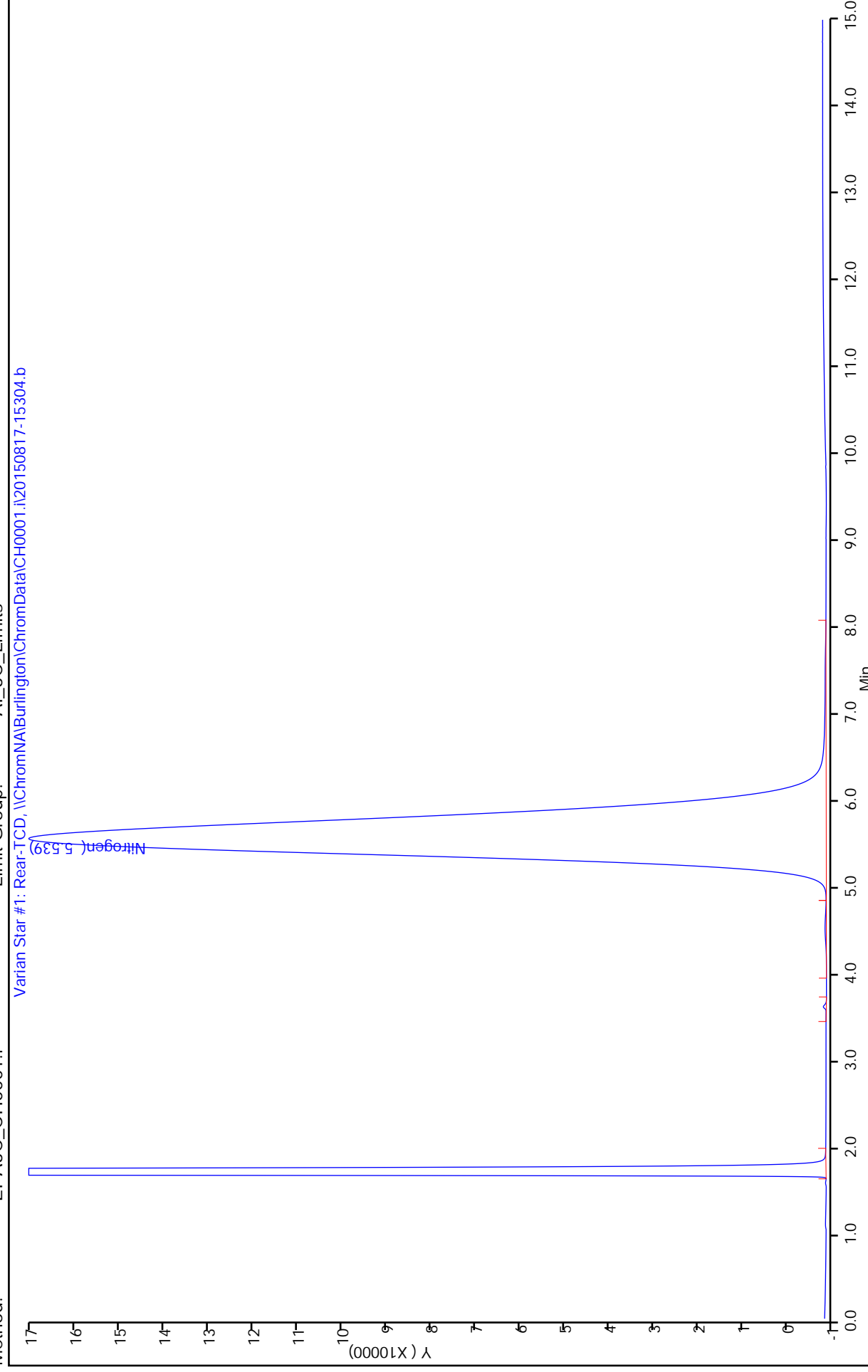
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: ICV 200-92935/10 Calibration Date: 08/17/2015 18:25  
 Instrument ID: CH0001.i Calib Start Date: 08/17/2015 09:23  
 GC Column: CTR-1 ID: 3.18 (mm) Calib End Date: 08/17/2015 17:37  
 Lab File ID: icv002.d-avg Conc. Units: % v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	44385	45990		5.15	5.00	3.6	30.0
Oxygen	Ave	50234	47706		4.68	5.00	-5.0	30.0
Nitrogen	Ave	55830	53905		4.74	5.00	-3.4	30.0
Methane	Ave	40963	38843		3.75	4.00	-5.2	30.0
Carbon monoxide	Ave	49254	50653		5.23	5.00	2.8	30.0



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 17-Aug-2015 18:25:03 ALS Bottle#: 0 Worklist Smp#: 33  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: icv  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:25 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d

Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK002

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:49:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.908	1.894	0.014	229951	5.00	5.18	
2 Oxygen	4.555	4.487	0.068	238531	5.00	4.75	
3 Nitrogen	5.672	5.582	0.090	269524	5.00	4.83	
4 Methane	8.170	8.069	0.101	155371	4.00	3.79	M
5 Carbon monoxide	8.538	8.431	0.107	253267	5.00	5.14	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CLCSs\_00003 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 17-Aug-2015 18:40:54 ALS Bottle#: 0 Worklist Smp#: 34  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: icv  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:25 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d

Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK002

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:51:19

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.892	1.894	-0.002	226811	5.00	5.11	
2 Oxygen	4.495	4.487	0.008	231670	5.00	4.61	
3 Nitrogen	5.597	5.582	0.015	260103	5.00	4.66	
4 Methane	8.068	8.069	-0.001	151642	4.00	3.70	M
5 Carbon monoxide	8.459	8.431	0.028	262098	5.00	5.32	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CLCSs\_00003 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icv002-92802-ai\_3c\_limits-

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icv003-92802-ai\_3c\_limits-

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	229951	226811	228381	1.37
Oxygen	238531	231670	235100.5	2.92
Nitrogen	269524	260103	264813.5	3.56
Methane	155371	151642	153506.5	2.43
Carbon monoxide	253267	262098	257682.5	3.43

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	5.18	5.11	5.15	1.37
Oxygen	4.75	4.61	4.68	2.92
Nitrogen	4.83	4.66	4.74	3.56
Methane	3.79	3.7	3.75	2.43
Carbon monoxide	5.14	5.32	5.23	3.43

----- NMOC Correction-----

NMOC correction not requested, NMOC correction not applied

Report Date: 20-Aug-2015 12:44:39

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d

Injection Date: 17-Aug-2015 18:25:03

Instrument ID: CH0001.i

Lims ID: icv

Operator ID: BPL

Worklist Smp#: 33

Client ID:

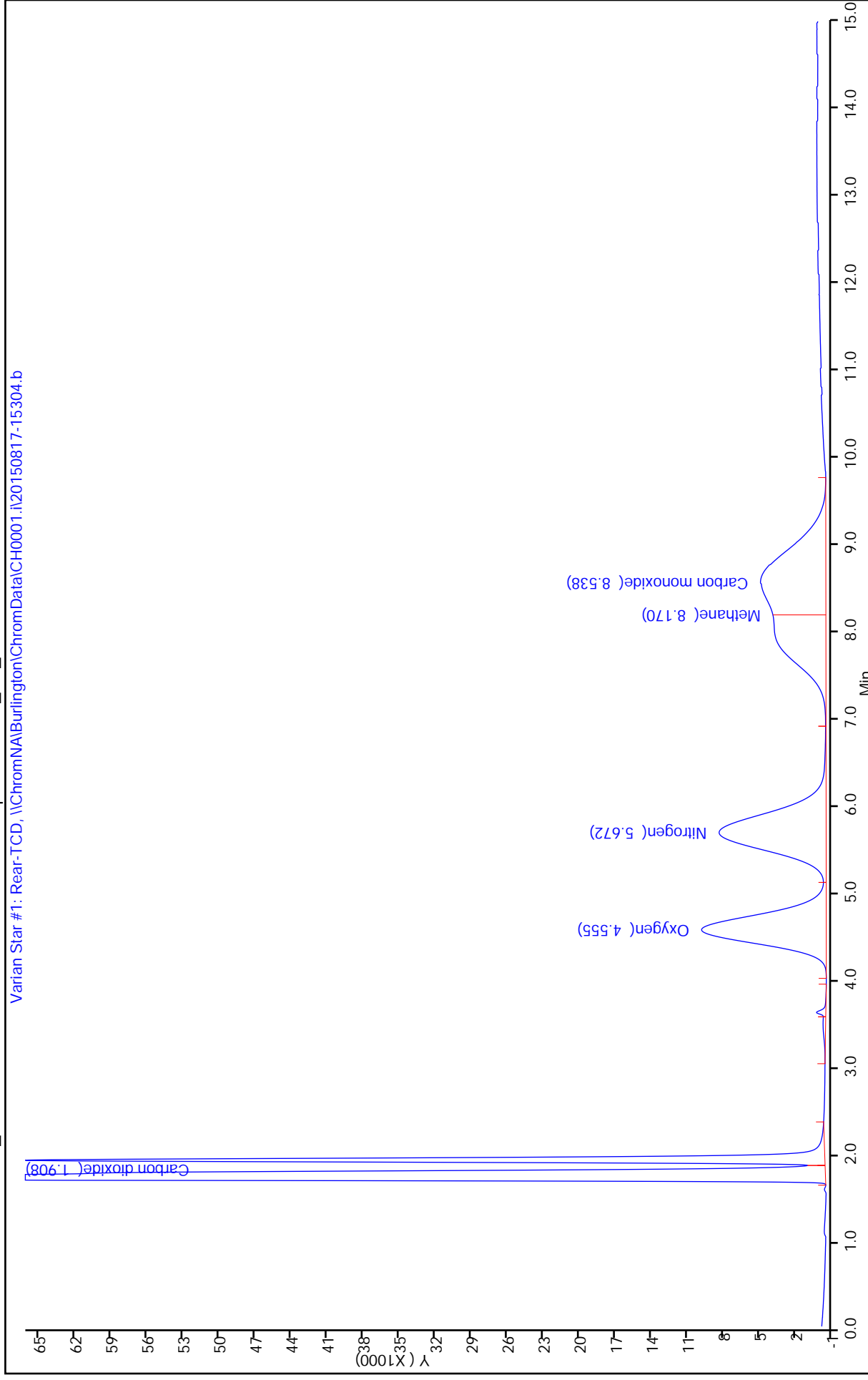
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 20-Aug-2015 12:44:40

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d

Injection Date: 17-Aug-2015 18:40:54

Instrument ID: CH0001.i

Lims ID: icv

Operator ID: BPL

Worklist Smp#: 34

Client ID:

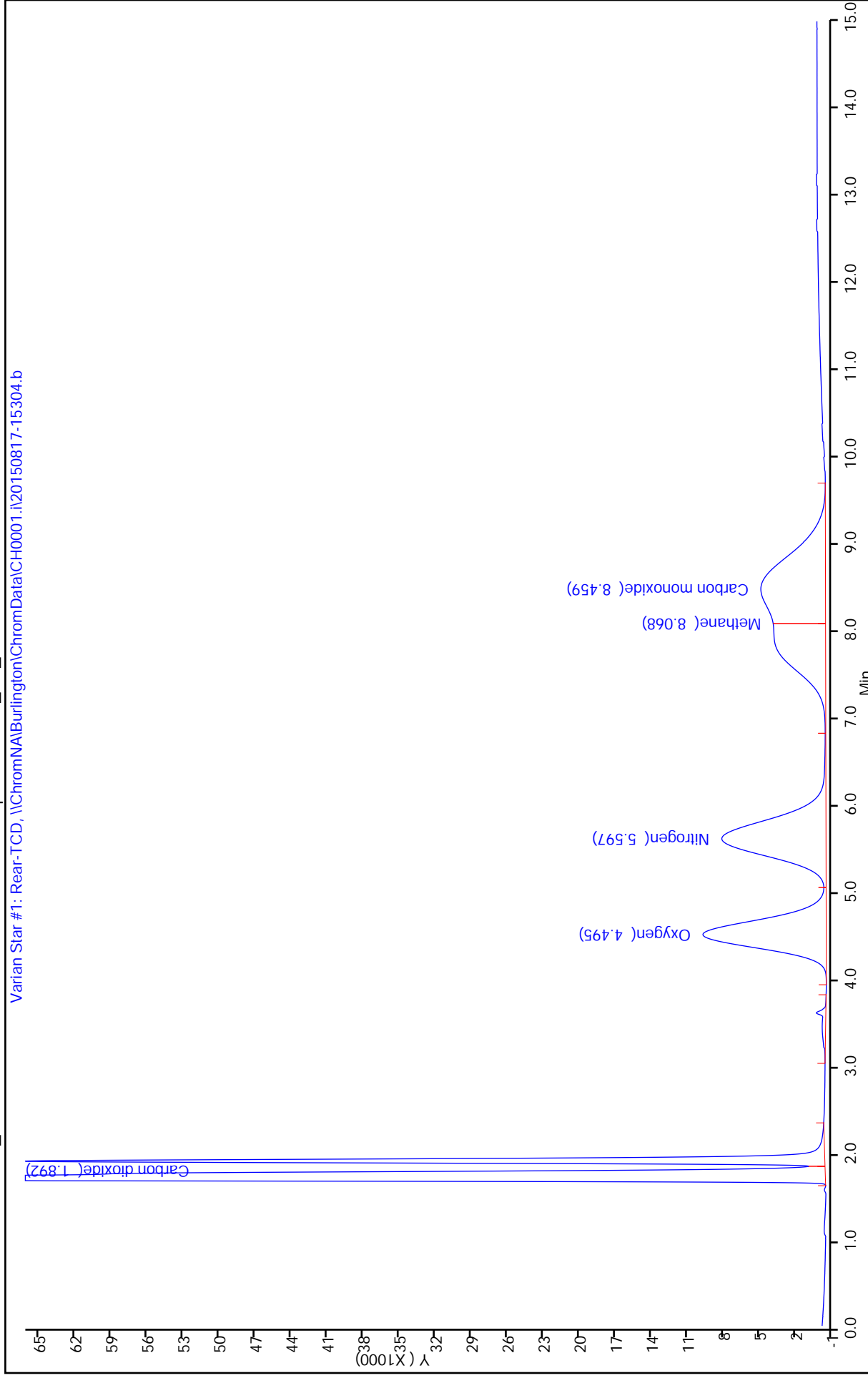
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



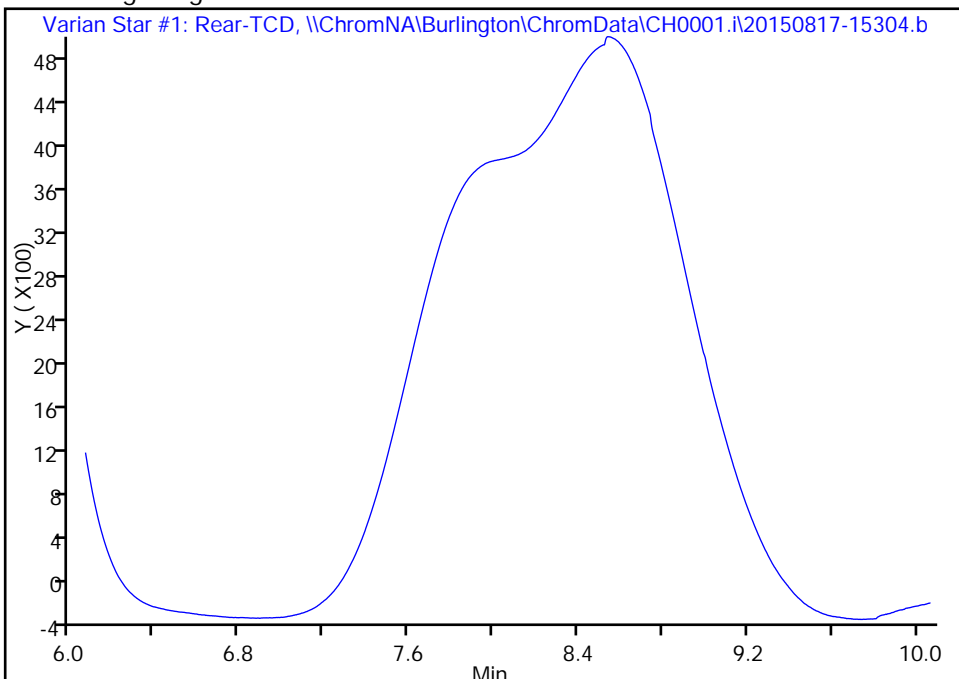
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d  
Injection Date: 17-Aug-2015 18:25:03 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 33  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

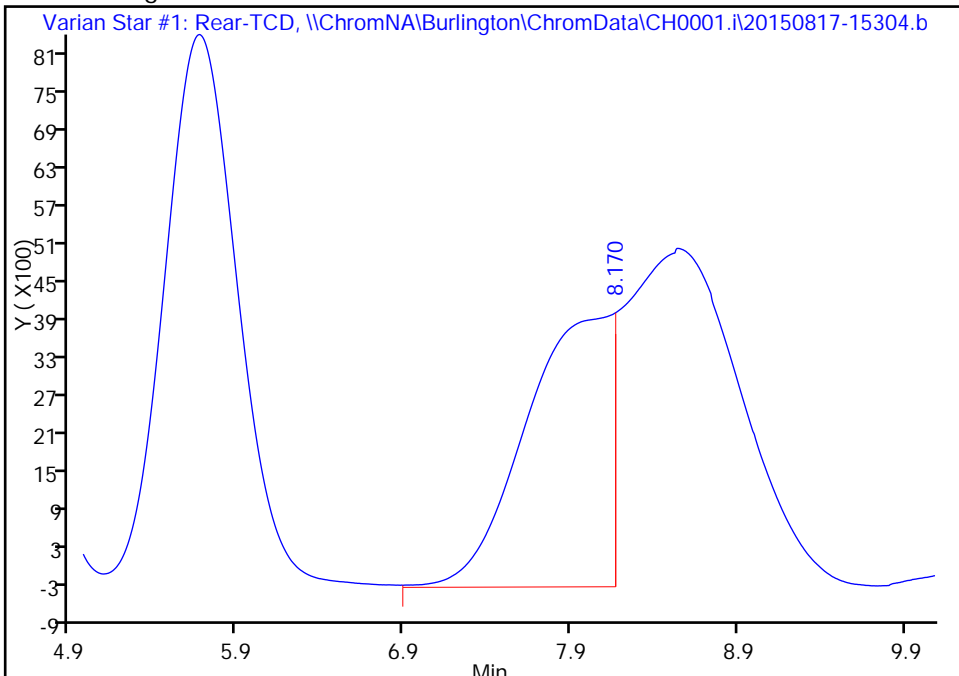
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 8.17  
Area: 155371  
Amount: 3.792987  
Amount Units: % v/v



Reviewer: desjardinsb, 18-Aug-2015 09:49:31  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

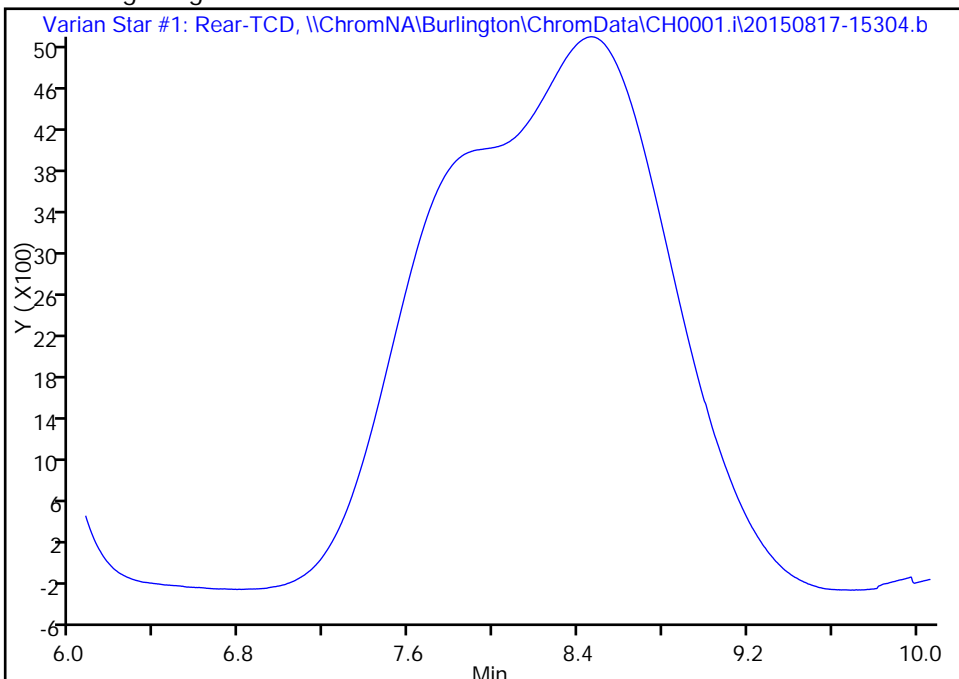
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d  
Injection Date: 17-Aug-2015 18:40:54 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 34  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

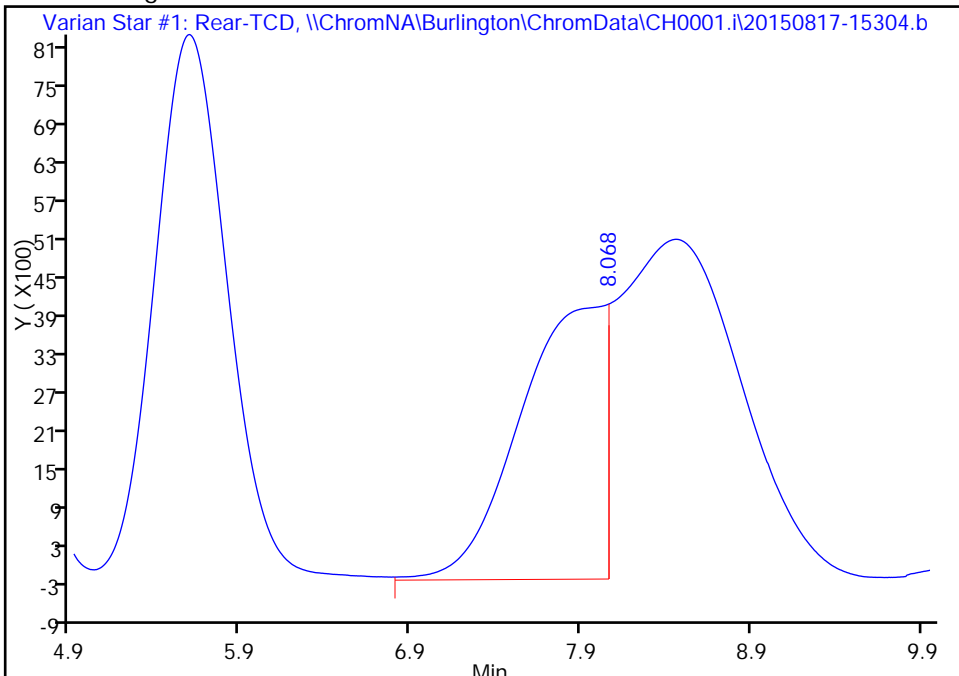
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 8.07  
Area: 151642  
Amount: 3.701953  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:51:19  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

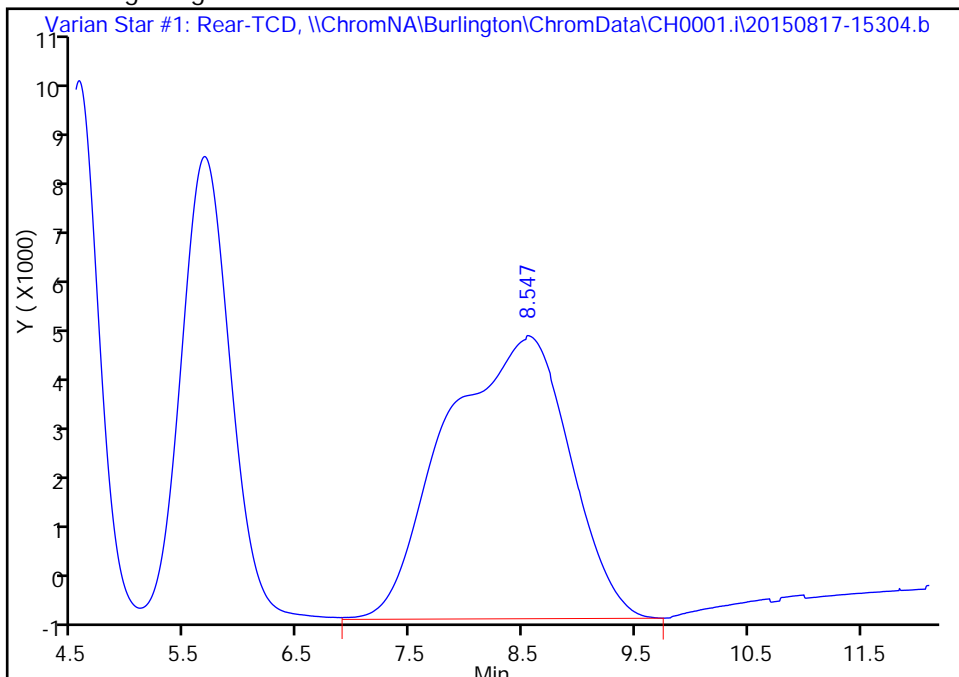
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d  
Injection Date: 17-Aug-2015 18:25:03 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 33  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

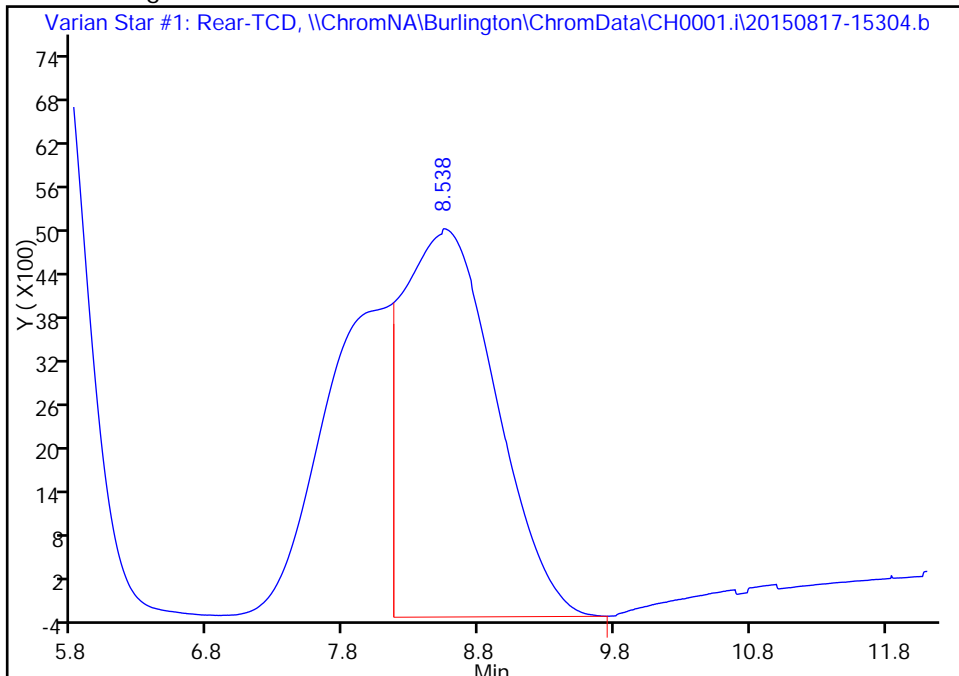
RT: 8.55  
Area: 408613  
Amount: 8.373369  
Amount Units: % v/v

Processing Integration Results



RT: 8.54  
Area: 253267  
Amount: 5.142097  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:49:31  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing



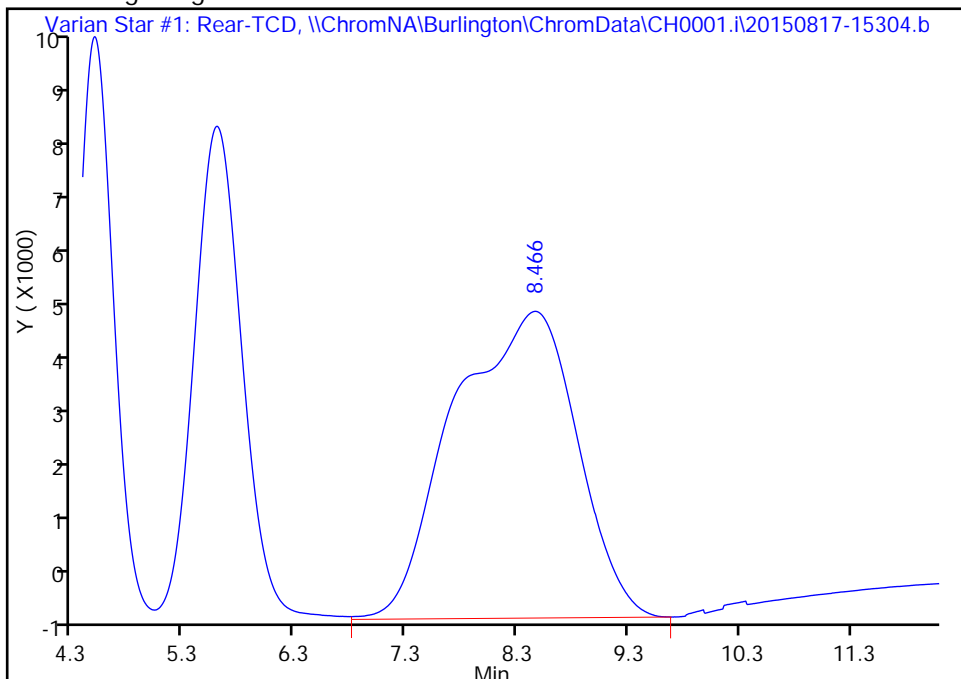
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d  
Injection Date: 17-Aug-2015 18:40:54 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 34  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

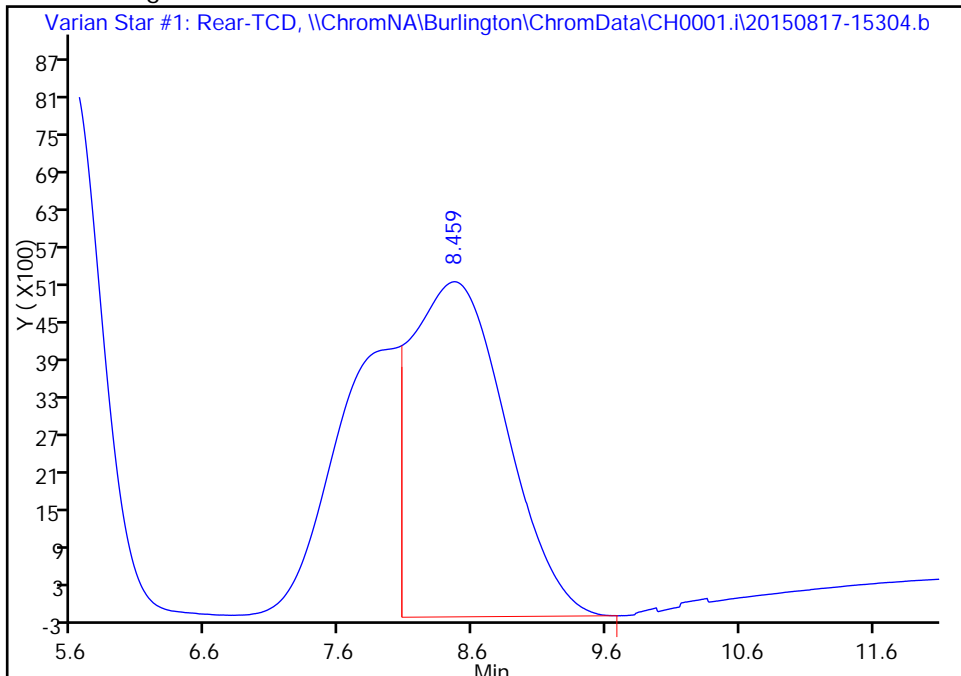
RT: 8.47  
Area: 413704  
Amount: 8.477694  
Amount Units: % v/v

Processing Integration Results



RT: 8.46  
Area: 262098  
Amount: 5.321394  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:51:19  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCV 200-135204/1 Calibration Date: 10/04/2018 15:14  
 Instrument ID: CH0001.i Calib Start Date: 08/17/2015 09:23  
 GC Column: CTR-1 ID: 3.18 (mm) Calib End Date: 08/17/2015 17:37  
 Lab File ID: 3cccv20181004a.d-avg Conc. Units: % v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	44385	47858		5.41	5.00	7.8	20.0
Oxygen	Ave	50234	49021		2.40	2.50	-2.4	20.0
Nitrogen	Ave	55830	57041		4.91	5.00	2.2	20.0
Methane	Ave	40963	39745		3.80	4.00	-3.0	20.0
Carbon monoxide	Ave	49254	52705		5.34	5.00	7.0	20.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004a.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 04-Oct-2018 15:14:01 ALS Bottle#: 0 Worklist Smp#: 1  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3cccv20181004a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:14 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:22:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.910	1.894	0.016	239289	5.00	5.39	
2 Oxygen	4.562	4.487	0.075	122552	2.50	2.44	
3 Nitrogen	5.640	5.582	0.058	285204	5.00	5.11	
4 Methane	8.097	8.069	0.028	158980	4.00	3.88	Ma
5 Carbon monoxide	8.367	8.431	-0.064	263525	5.00	5.34	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004b.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 04-Oct-2018 15:32:43 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3cccv20181004b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:22:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.917	1.894	0.023	240869	5.00	5.43	
2 Oxygen	4.568	4.487	0.081	118315	2.50	2.36	
3 Nitrogen	5.648	5.582	0.066	262595	5.00	4.70	
4 Methane	8.050	8.069	-0.019	152463	4.00	3.72	Ma
5 Carbon monoxide	8.315	8.431	-0.116	263206	5.00	5.34	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

Processing 3C data for files:

z:\ch0001-3hutch\3cccv20181004a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\3cccv20181004b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	239289	240869	240079	0.33
Oxygen	122552	118315	120433.5	1.76
Nitrogen	285204	262595	273899.5	4.13
Methane	158980	152463	155721.5	2.09
Carbon monoxide	263525	263206	263365.5	0.06

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	5.39	5.43	5.41	0.33
Oxygen	2.44	2.36	2.4	1.76
Nitrogen	5.11	4.7	4.91	4.13
Methane	3.88	3.72	3.8	2.09
Carbon monoxide	5.34	5.34	5.34	0.06

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004a.d

Injection Date: 04-Oct-2018 15:14:01

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 1

Client ID:

Purge Vol: 2.000 mL

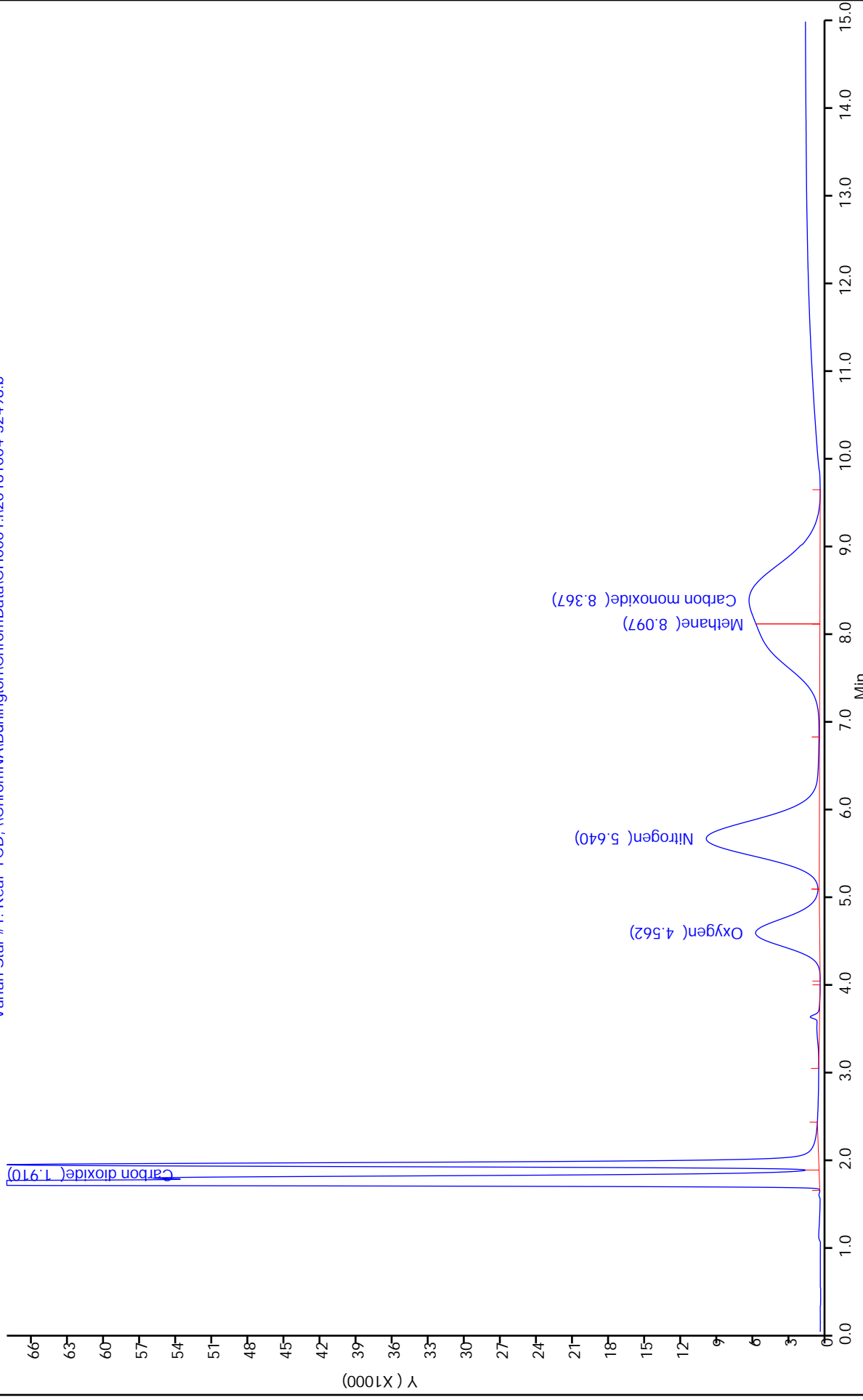
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004b.d

Injection Date: 04-Oct-2018 15:32:43

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 2

Client ID:

Purge Vol: 2.000 mL

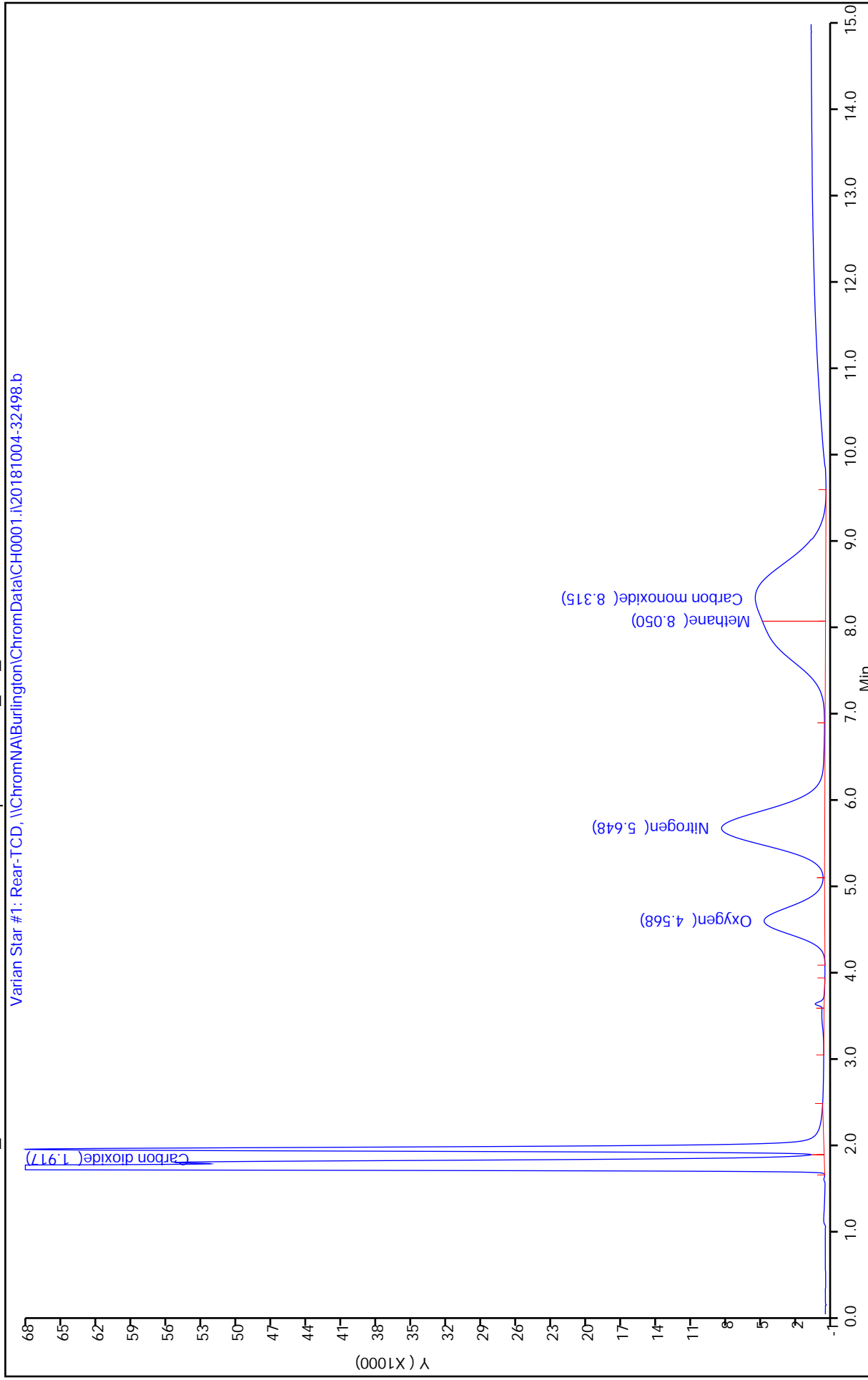
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b



TestAmerica Burlington

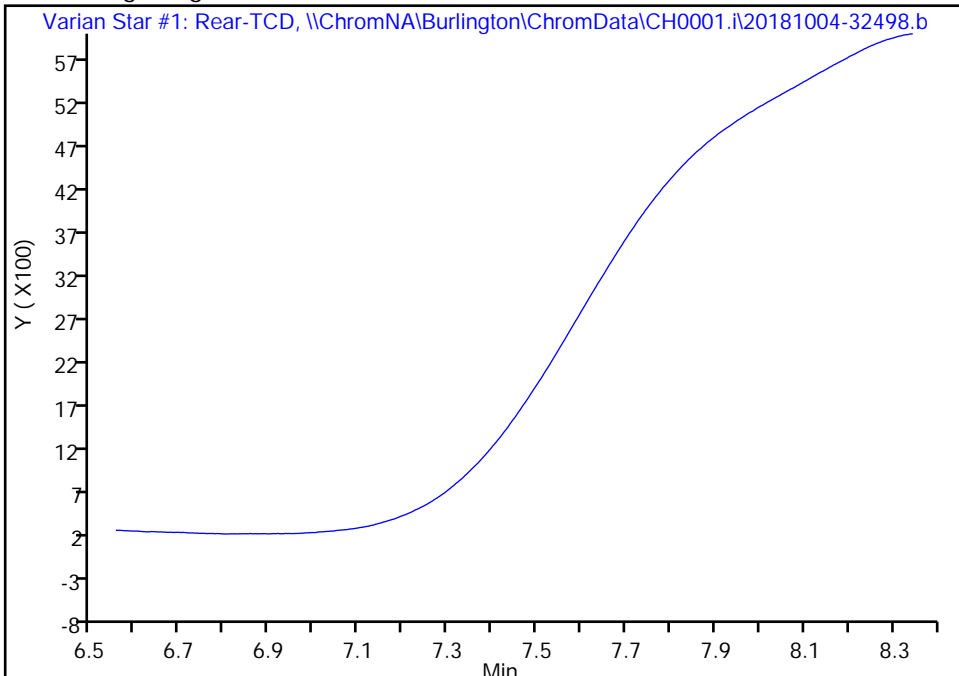
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004a.d  
Injection Date: 04-Oct-2018 15:14:01 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 1  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

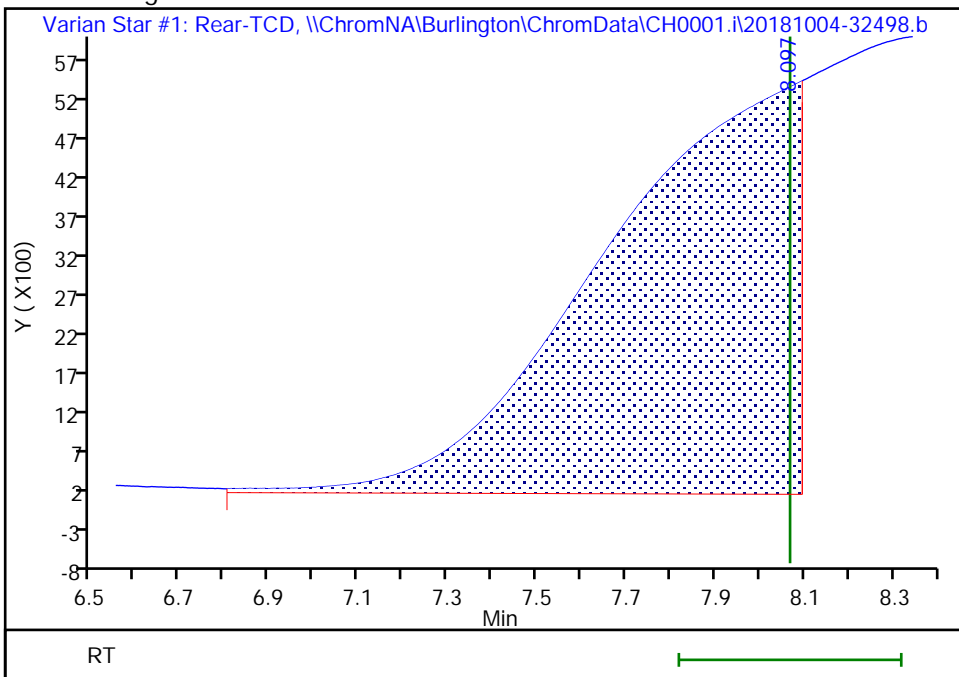
Processing Integration Results

Not Detected  
Expected RT: 8.07



Manual Integration Results

RT: 8.10  
Area: 158980  
Amount: 3.881092  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 14:21:50

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak



TestAmerica Burlington

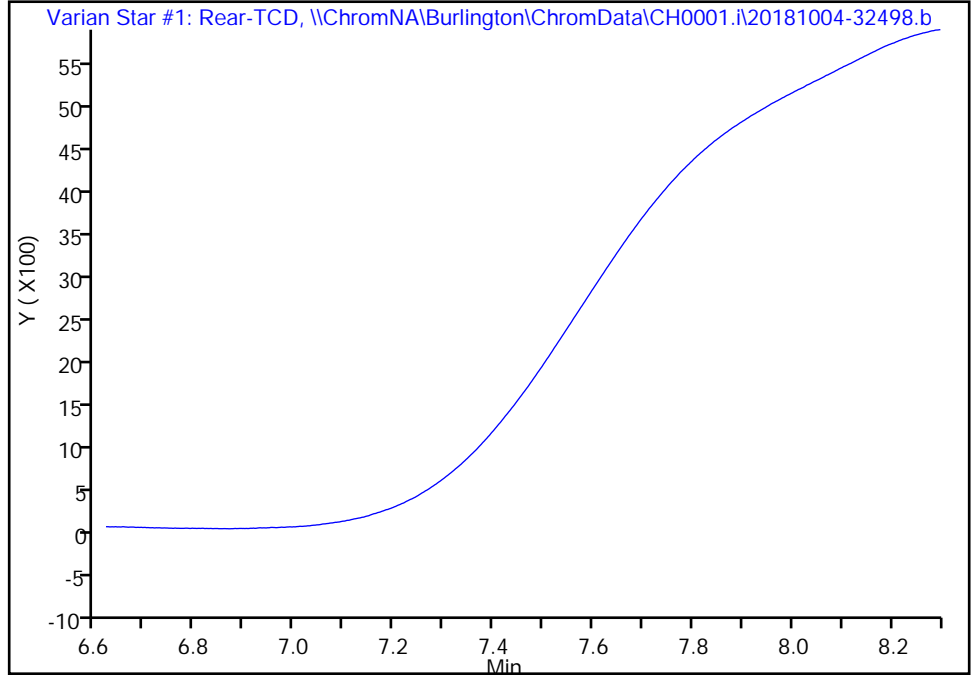
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004b.d  
Injection Date: 04-Oct-2018 15:32:43 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 2  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

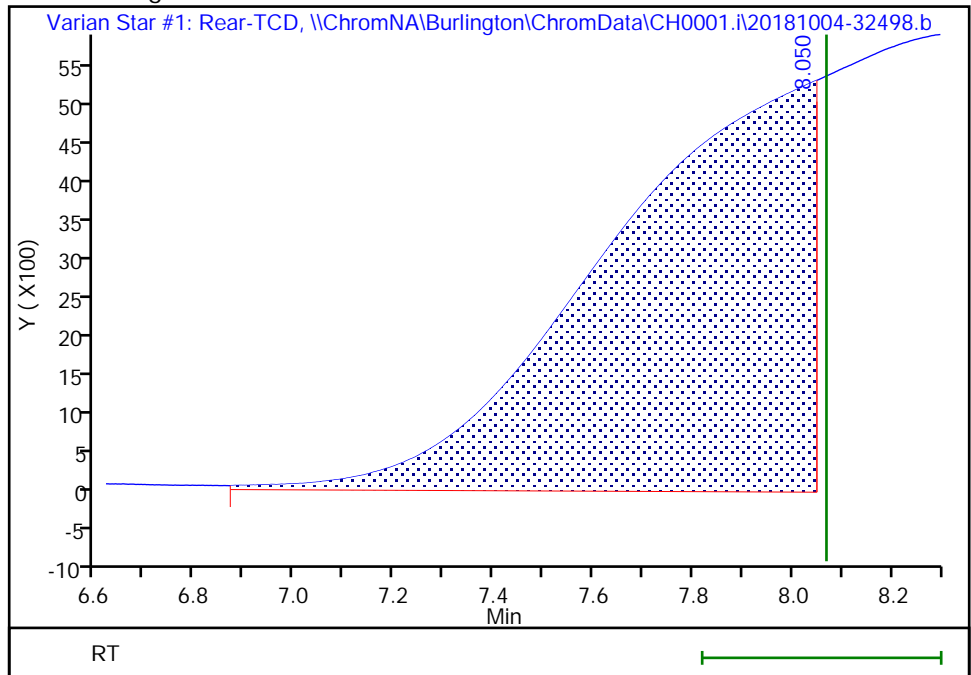
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 8.05  
Area: 152463  
Amount: 3.721996  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 14:22:42

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

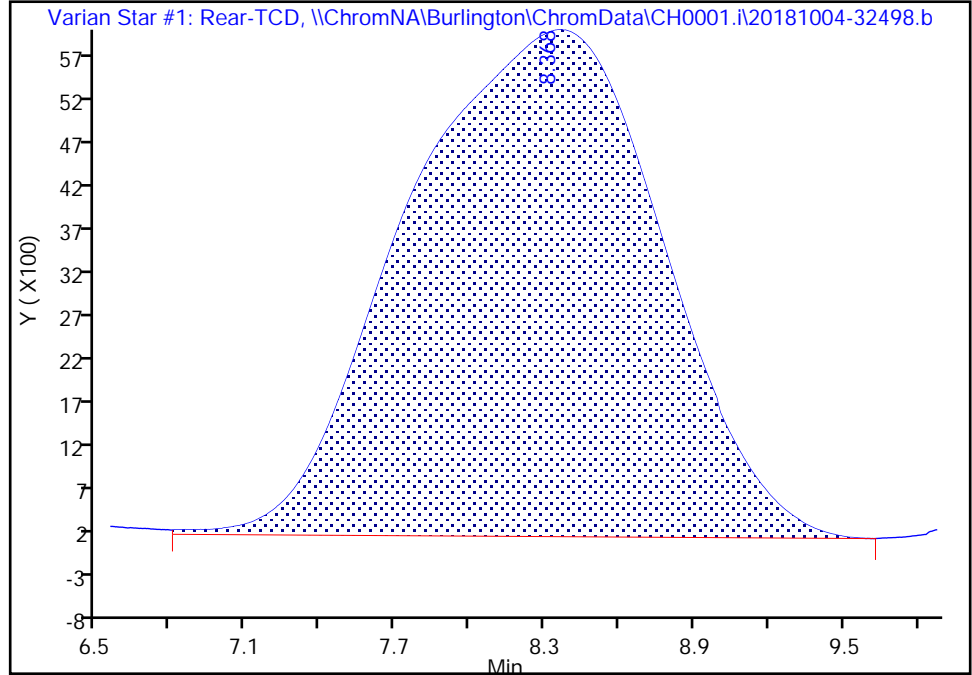
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004a.d  
Injection Date: 04-Oct-2018 15:14:01 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 1  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

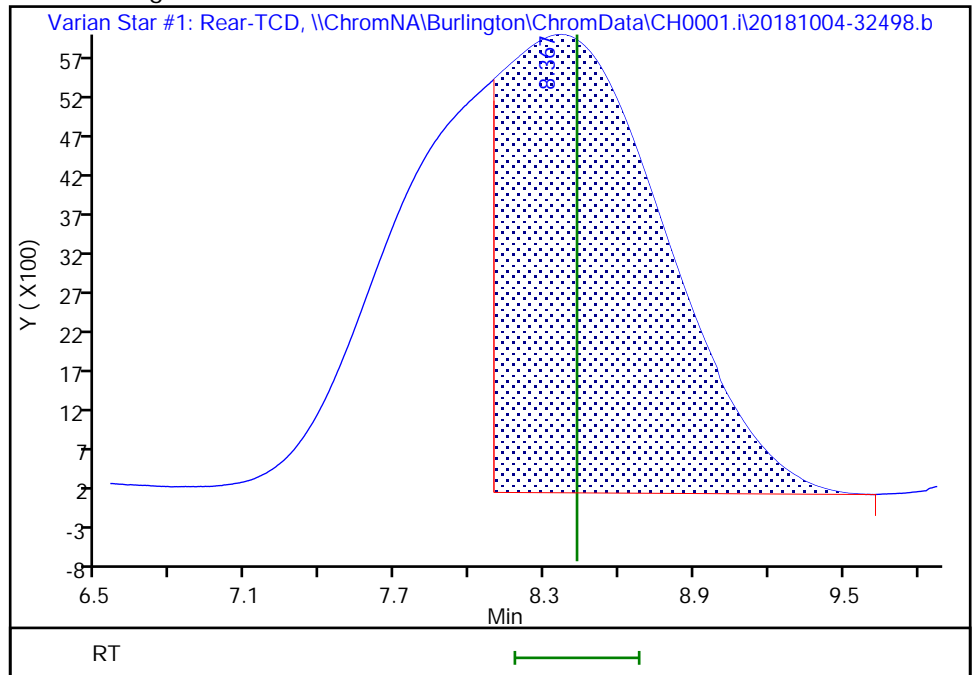
RT: 8.37  
Area: 422579  
Amount: 8.565479  
Amount Units: % v/v

Processing Integration Results



RT: 8.37  
Area: 263525  
Amount: 5.341529  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:21:54

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

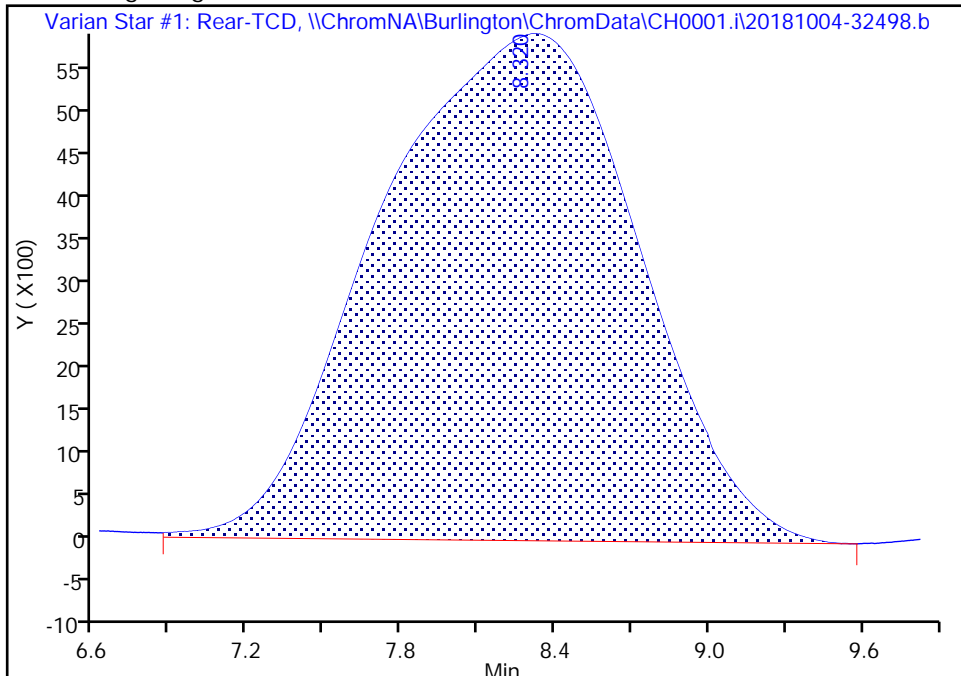
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3cccv20181004b.d  
Injection Date: 04-Oct-2018 15:32:43 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 2  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

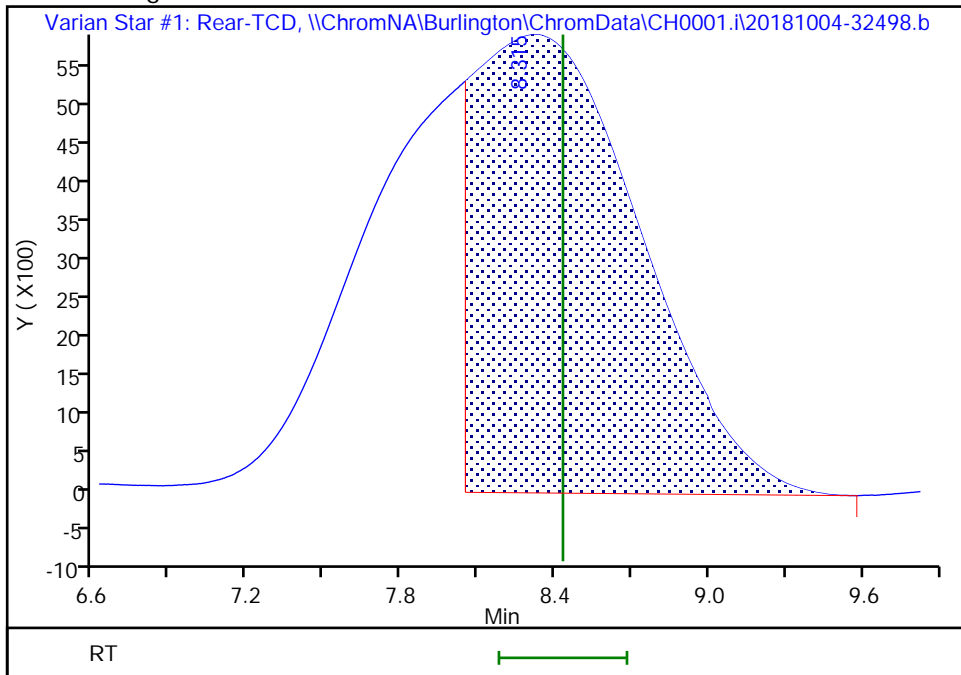
RT: 8.32  
Area: 415668  
Amount: 8.425396  
Amount Units: % v/v

Processing Integration Results



RT: 8.32  
Area: 263206  
Amount: 5.335063  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:22:47

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCVC 200-135204/16 Calibration Date: 10/05/2018 14:21  
 Instrument ID: CH0001.i Calib Start Date: 08/17/2015 09:23  
 GC Column: CTR-1 ID: 3.18 (mm) Calib End Date: 08/17/2015 17:37  
 Lab File ID: 3cccvc20181005a.d-avg Conc. Units: % v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	44385	46369		5.22	5.00	4.5	20.0
Oxygen	Ave	50234	47818		2.38	2.50	-4.8	20.0
Nitrogen	Ave	55830	56913		5.10	5.00	1.9	20.0
Methane	Ave	40963	38836		3.79	4.00	-5.2	20.0
Carbon monoxide	Ave	49254	53319		5.40	5.00	8.3	20.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3ccvc20181005a.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 05-Oct-2018 14:21:03 ALS Bottle#: 0 Worklist Smp#: 31  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3ccvc20181005a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 15:05:07 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 15:00:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.885	1.894	-0.009	230590	5.00	5.20	
2 Oxygen	4.452	4.487	-0.035	121221	2.50	2.41	
3 Nitrogen	5.490	5.582	-0.092	298880	5.00	5.35	
4 Methane	7.855	8.069	-0.214	154031	4.00	3.76	M
5 Carbon monoxide	8.112	8.431	-0.319	264268	5.00	5.36	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

Processing 3C data for files:

z:\ch0001-3hutch\3cccvc20181005a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\3cccvc20181005b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

---

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	230590	233095	231842.5	0.54
Oxygen	121221	117869	119545	1.4
Nitrogen	298880	270248	284564	5.03*
Methane	154031	156655	155343	0.84
Carbon monoxide	264268	268918	266593	0.87

\* - %D exceeds maximum %D of 5

---

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	5.2	5.25	5.22	0.54
Oxygen	2.41	2.35	2.38	1.4
Nitrogen	5.35	4.84	5.1	5.03*
Methane	3.76	3.82	3.79	0.84
Carbon monoxide	5.36	5.45	5.4	0.87

\* - %D exceeds maximum %D of 5

---

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3ccvcv20181005a.d

Injection Date: 05-Oct-2018 14:21:03

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 31

Client ID:

Purge Vol: 2.000 mL

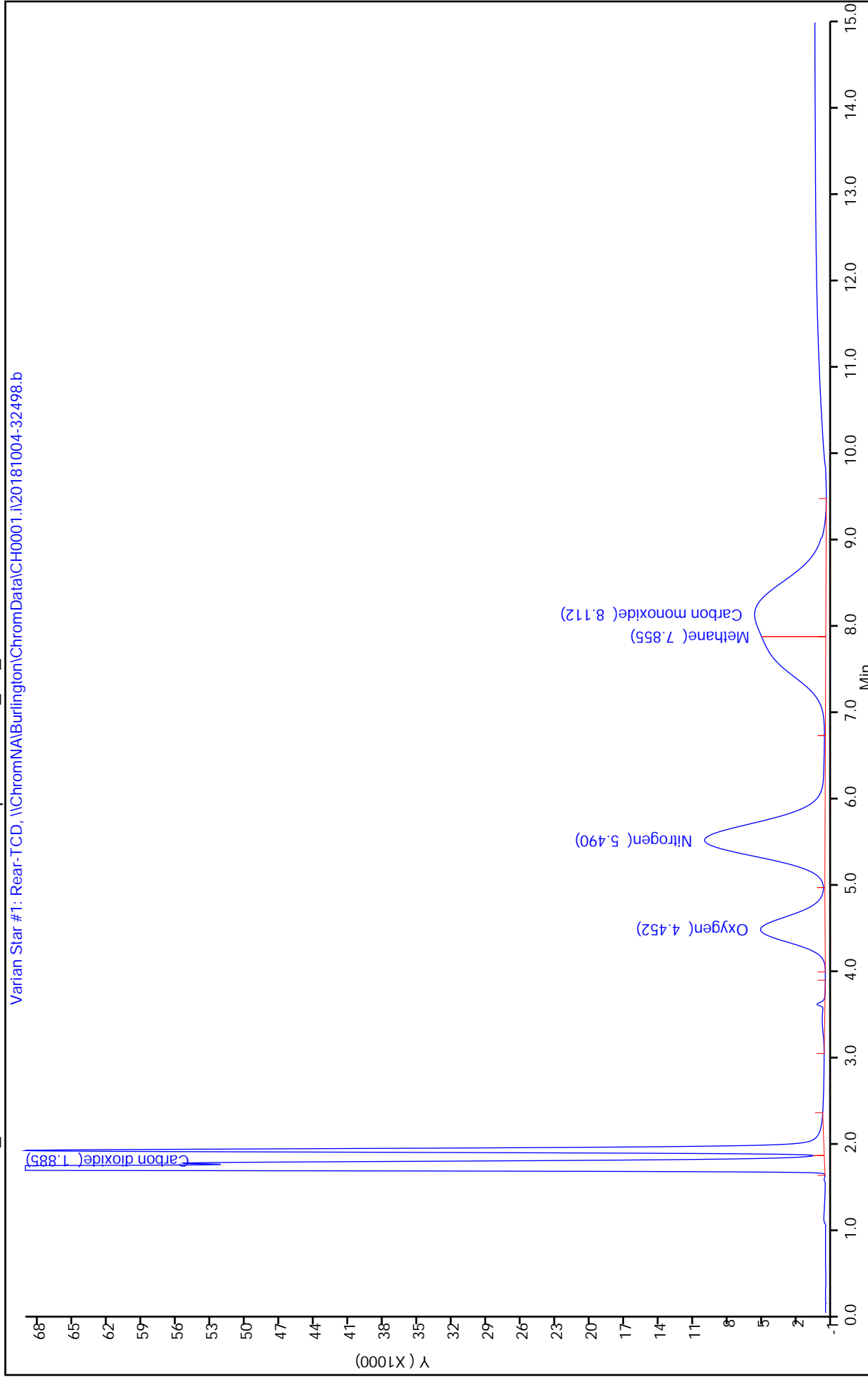
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b



TestAmerica Burlington

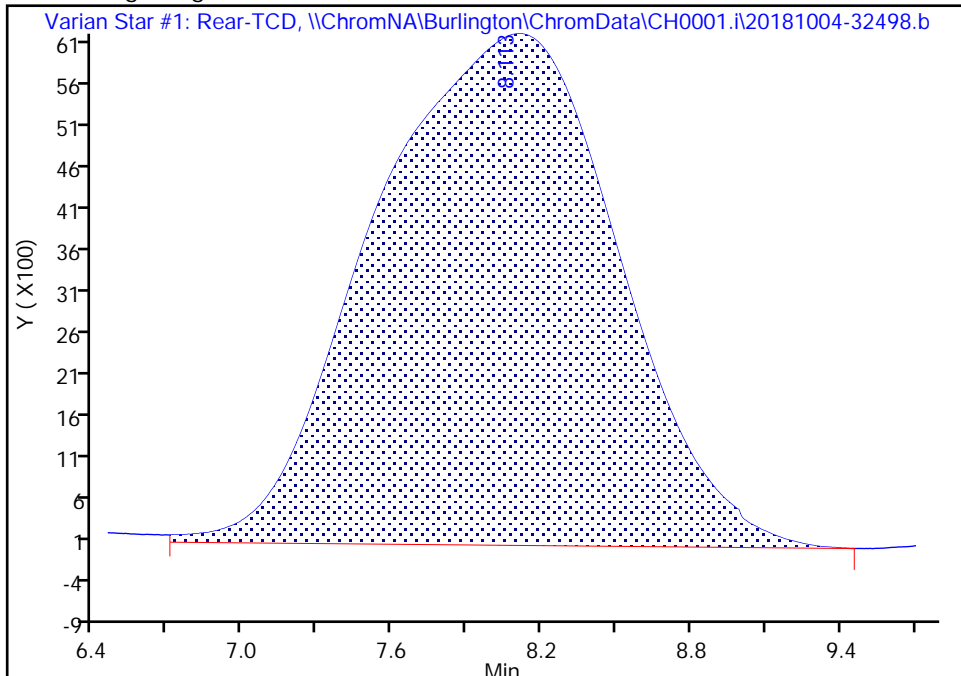
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3ccvc20181005a.d  
Injection Date: 05-Oct-2018 14:21:03 Instrument ID: CH0001.i  
Lims ID: ccvc  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 31  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

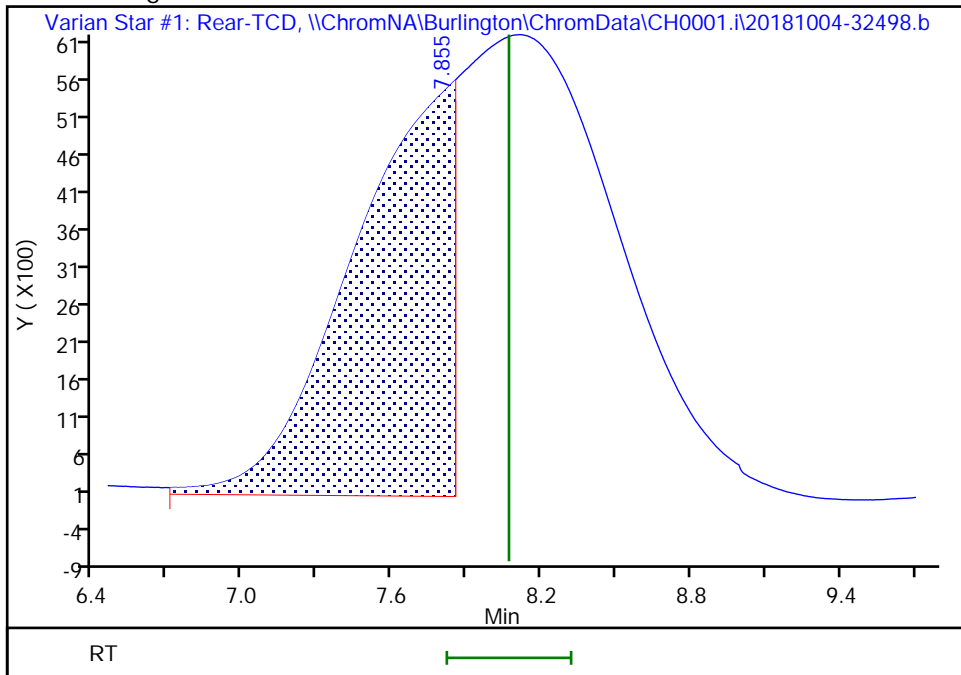
RT: 8.11  
Area: 418360  
Amount: 10.213194  
Amount Units: % v/v

Processing Integration Results



RT: 7.86  
Area: 154031  
Amount: 3.760275  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:29:39  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
Page 214 of 565



TestAmerica Burlington

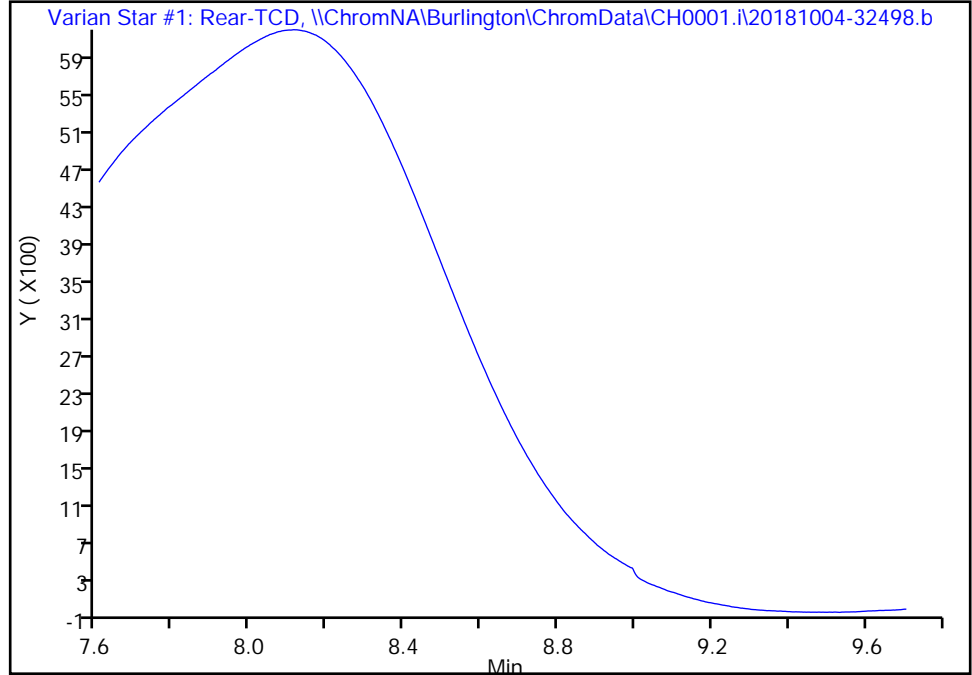
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3ccvc20181005a.d  
Injection Date: 05-Oct-2018 14:21:03 Instrument ID: CH0001.i  
Lims ID: ccvc  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 31  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

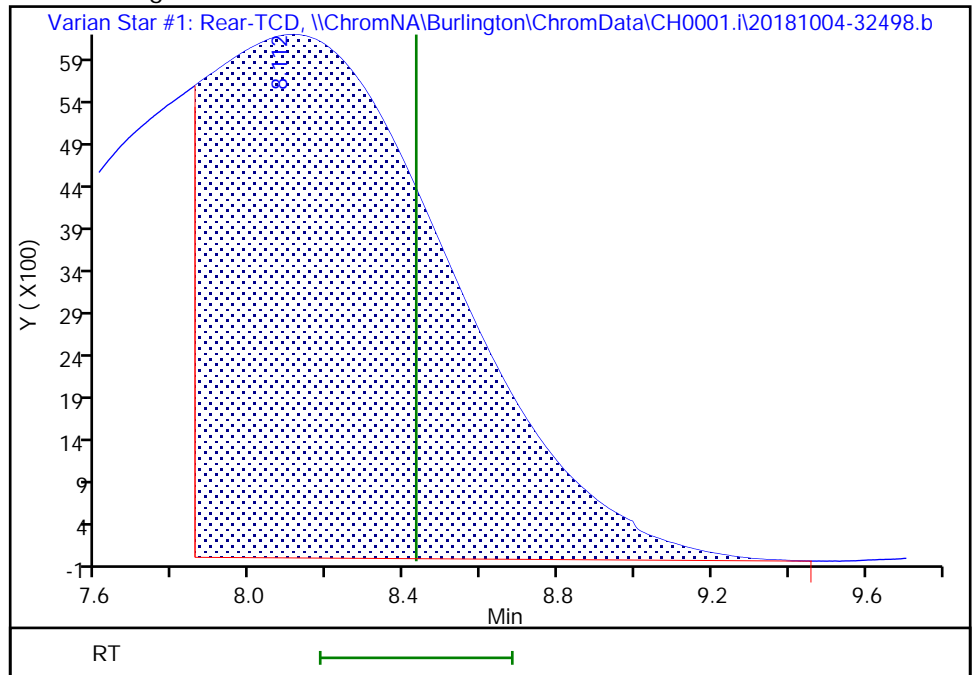
Not Detected  
Expected RT: 8.43

Processing Integration Results



RT: 8.11  
Area: 264268  
Amount: 5.356589  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:29:44

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-135204/3  
 Matrix: Air Lab File ID: mb20181004a.d-avg  
 Analysis Method: EPA 3C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/04/2018 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: CTR-1 ID: 3.175 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135204 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	0.050	U	0.050	0.050
74-82-8	Methane	0.040	U	0.040	0.040
7727-37-9	Nitrogen	0.50	U	0.50	0.50
7782-44-7	Oxygen	0.050	U	0.050	0.050

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\mb20181004a.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 04-Oct-2018 19:09:36 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181004a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb

Date: 13-Oct-2018 14:24:54

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
2 Oxygen	4.555	4.487	0.068	418		0.008321	7
3 Nitrogen	5.632	5.582	0.050	1088		0.0195	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\mb20181004b.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 04-Oct-2018 19:25:38 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181004b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:25:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
2 Oxygen	4.600	4.487	0.113	455		0.009058	7
3 Nitrogen	5.647	5.582	0.065	1214		0.0217	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Processing 3C data for files:

z:\ch0001-3hutch\mb20181004a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\mb20181004b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

---

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	0	0	0	0
Oxygen	418	455	436.5	4.24
Nitrogen	1088	1214	1151	5.47*
Methane	0	0	0	0
Carbon monoxide	0	0	0	0

\* - %D exceeds maximum %D of 5

---

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	0	0	0	0
Oxygen	0.01	0.01	0.01	4.24
Nitrogen	0.02	0.02	0.02	5.47*
Methane	0	0	0	0
Carbon monoxide	0	0	0	0

\* - %D exceeds maximum %D of 5

---

Report Date: 13-Oct-2018 14:31:25

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32498.b\mb20181004a.d

Injection Date: 04-Oct-2018 19:09:36

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 5

Client ID:

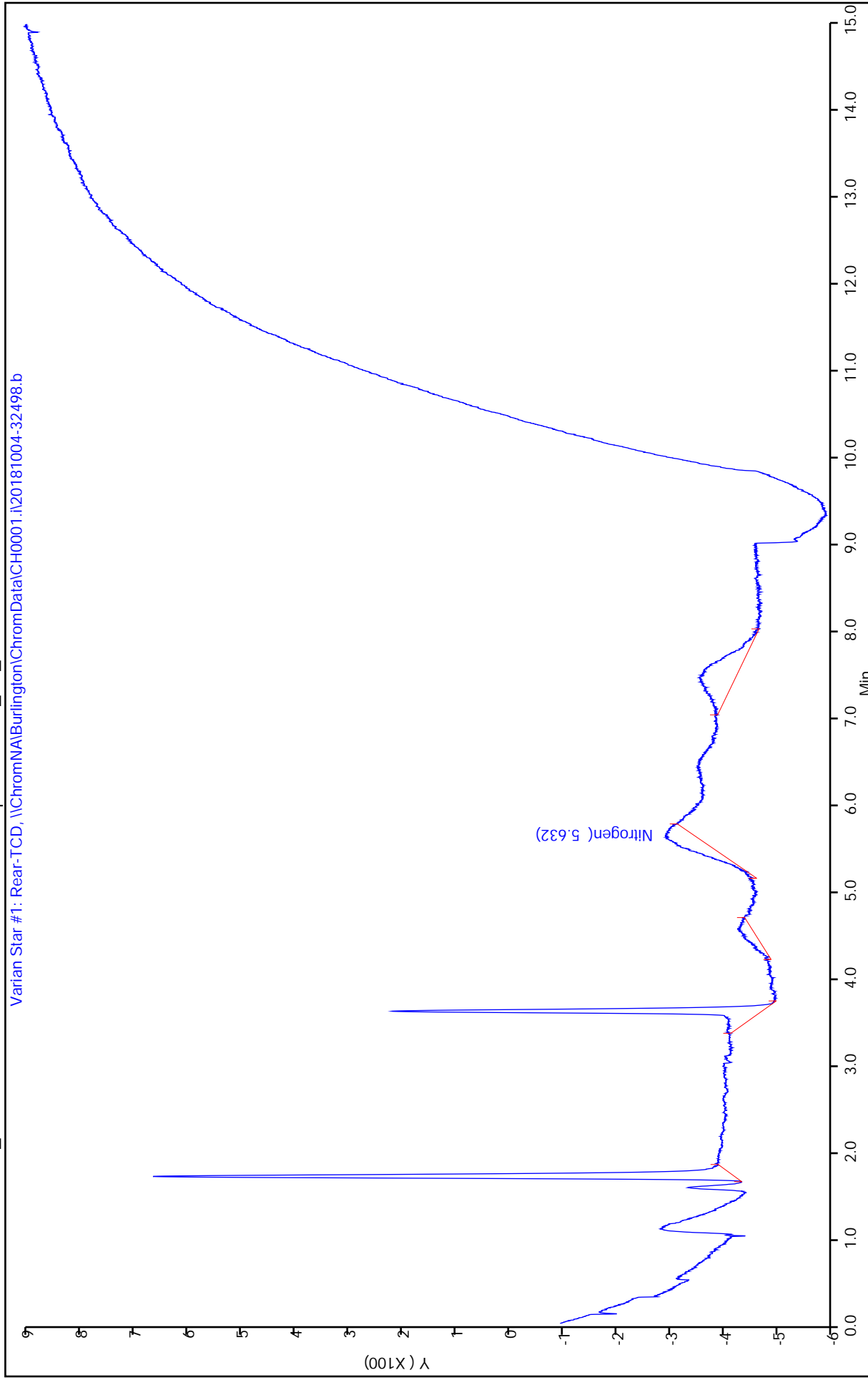
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 13-Oct-2018 14:31:26

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32498.b\mb20181004b.d

Injection Date: 04-Oct-2018 19:25:38

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 6

Client ID:

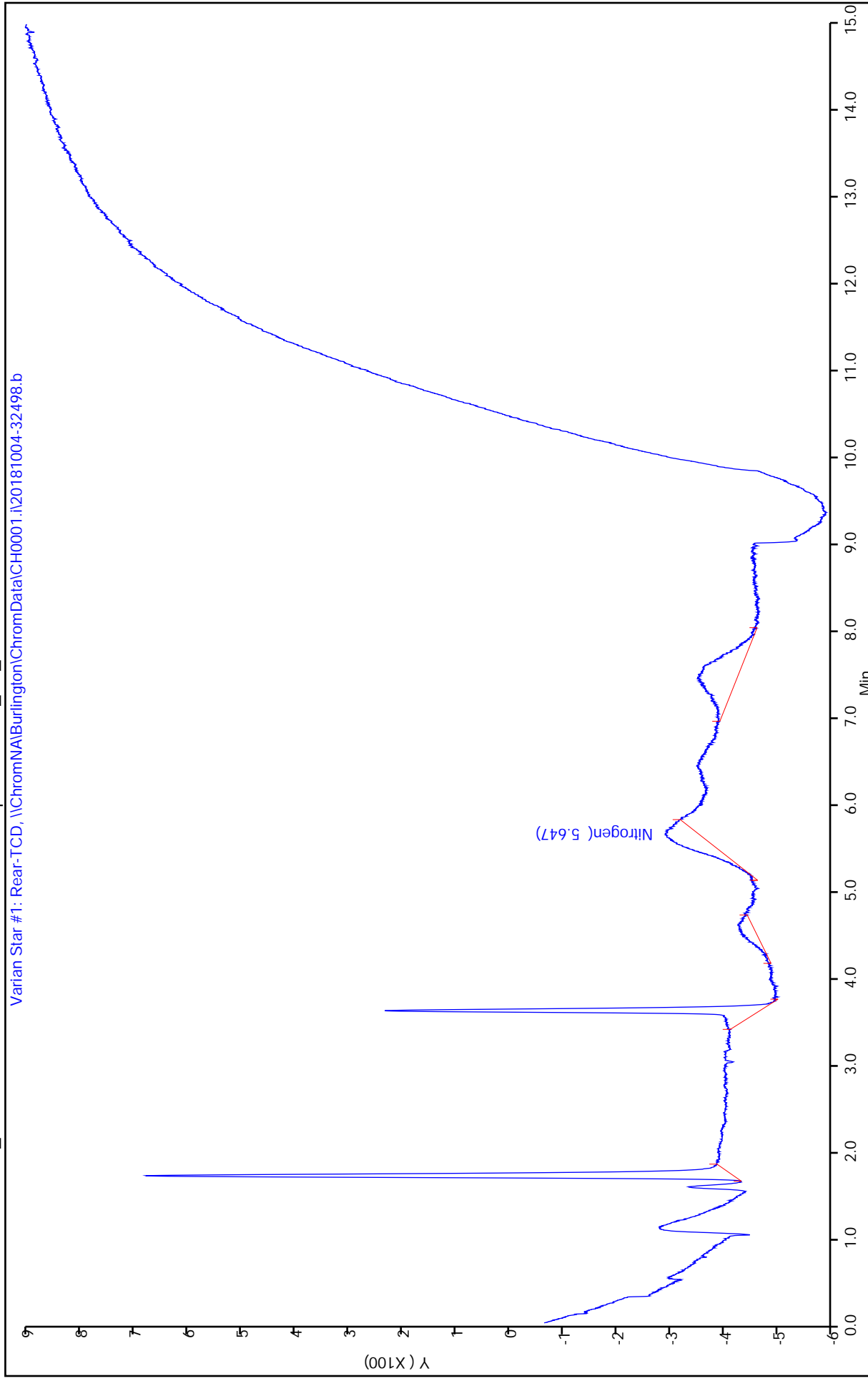
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-135204/2  
 Matrix: Air Lab File ID: 3clcs20181004a.d-avg  
 Analysis Method: EPA 3C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/04/2018 15:50  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: CTR-1 ID: 3.175 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135204 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	5.25		0.050	0.050
74-82-8	Methane	3.82		0.040	0.040
7727-37-9	Nitrogen	4.56		0.50	0.50
7782-44-7	Oxygen	2.26		0.050	0.050



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3clcs20181004a.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 04-Oct-2018 15:50:40 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3clcs20181004a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:24:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.892	1.894	-0.002	231788	5.00	5.22	
2 Oxygen	4.473	4.487	-0.014	112598	2.50	2.24	
3 Nitrogen	5.518	5.582	-0.064	252819	5.00	4.53	
4 Methane	7.910	8.069	-0.159	156835	4.00	3.83	M
5 Carbon monoxide	8.162	8.431	-0.269	258224	5.00	5.23	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CLCSs\_00008 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3clcs20181004b.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 04-Oct-2018 16:09:43 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3clcs20181004b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 13-Oct-2018 14:31:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:24:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.897	1.894	0.003	234163	5.00	5.28	
2 Oxygen	4.498	4.487	0.011	114075	2.50	2.27	
3 Nitrogen	5.555	5.582	-0.027	255875	5.00	4.58	
4 Methane	7.962	8.069	-0.107	156065	4.00	3.81	M
5 Carbon monoxide	8.223	8.431	-0.208	263058	5.00	5.33	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CLCSs\_00008 Amount Added: 2.00 Units: mL

Processing 3C data for files:

z:\ch0001-3hutch\3clcs20181004a-134860-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\3clcs20181004b-134860-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	231788	234163	232975.5	0.51
Oxygen	112598	114075	113336.5	0.65
Nitrogen	252819	255875	254347	0.6
Methane	156835	156065	156450	0.25
Carbon monoxide	258224	263058	260641	0.93

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	5.22	5.28	5.25	0.51
Oxygen	2.24	2.27	2.26	0.65
Nitrogen	4.53	4.58	4.56	0.6
Methane	3.83	3.81	3.82	0.25
Carbon monoxide	5.23	5.33	5.28	0.93

Report Date: 13-Oct-2018 14:31:21

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3clcs20181004a.d

Injection Date: 04-Oct-2018 15:50:40

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 3

Client ID:

Purge Vol: 2.000 mL

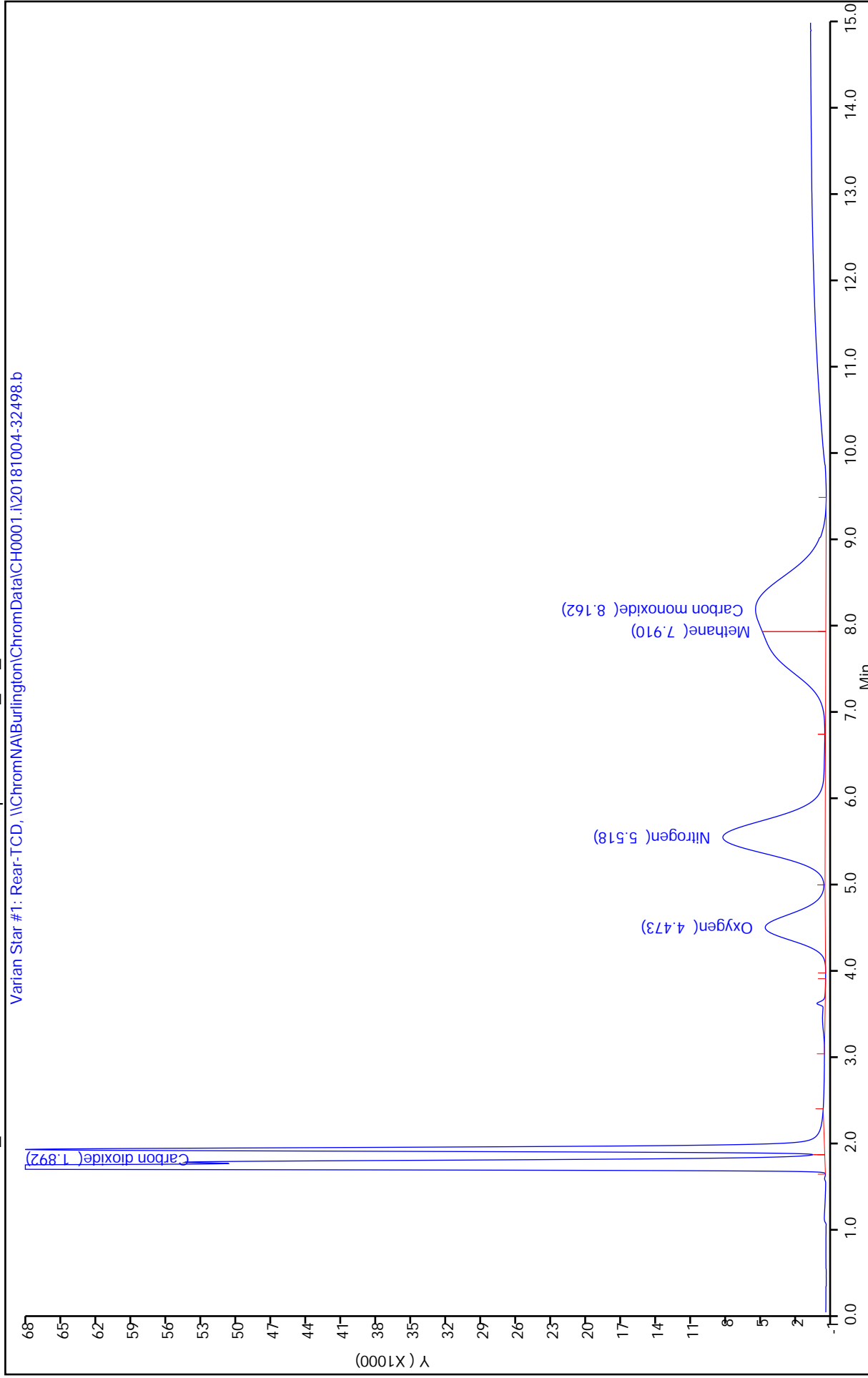
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b



Report Date: 13-Oct-2018 14:31:23

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3clcs20181004b.d

Injection Date: 04-Oct-2018 16:09:43

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 4

Client ID:

Purge Vol: 2.000 mL

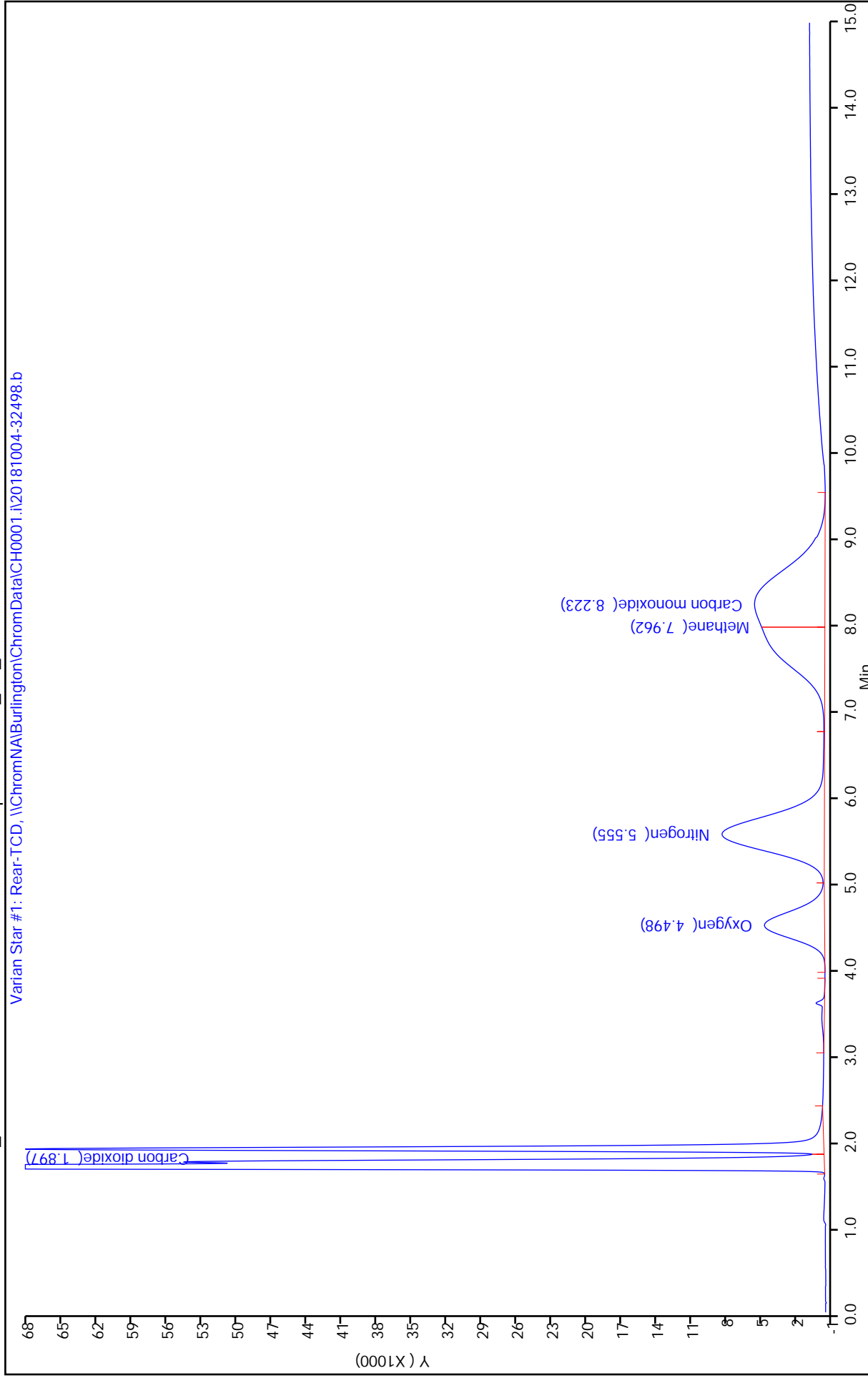
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b



TestAmerica Burlington

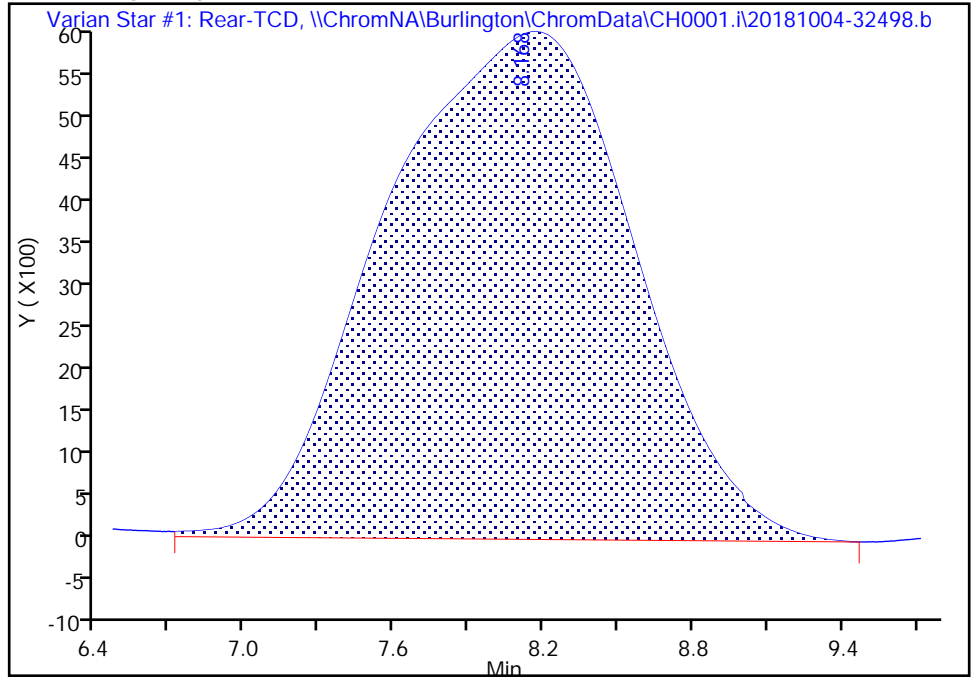
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3clcs20181004a.d  
Injection Date: 04-Oct-2018 15:50:40 Instrument ID: CH0001.i  
Lims ID: lcs  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 3  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

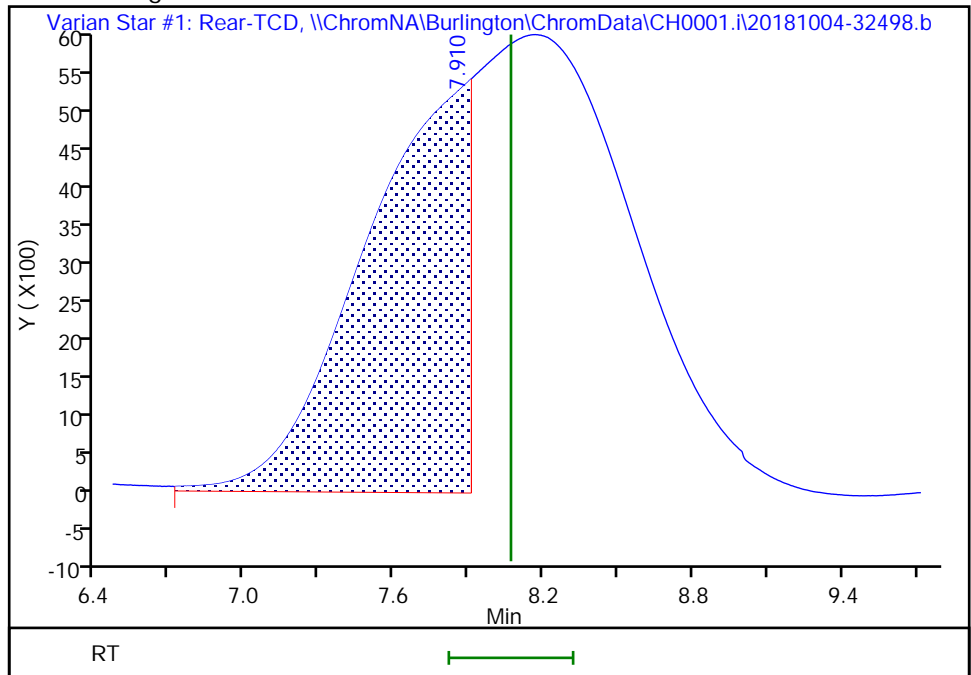
RT: 8.17  
Area: 415085  
Amount: 10.133243  
Amount Units: % v/v

Processing Integration Results



RT: 7.91  
Area: 156835  
Amount: 3.828727  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:23:52  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
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TestAmerica Burlington

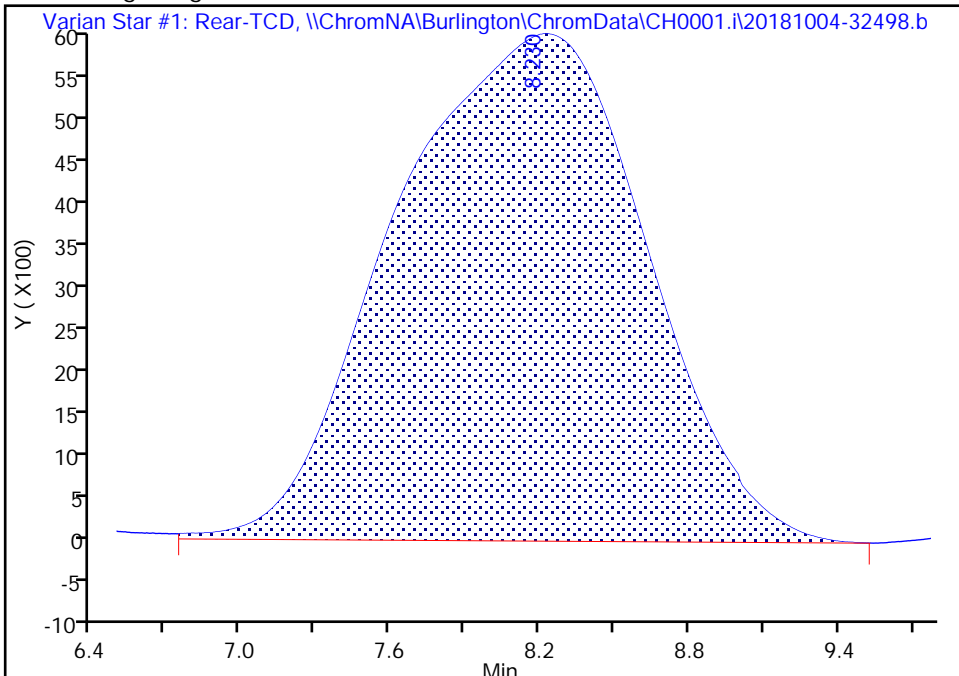
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32498.b\3clcs20181004b.d  
Injection Date: 04-Oct-2018 16:09:43 Instrument ID: CH0001.i  
Lims ID: lcs  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

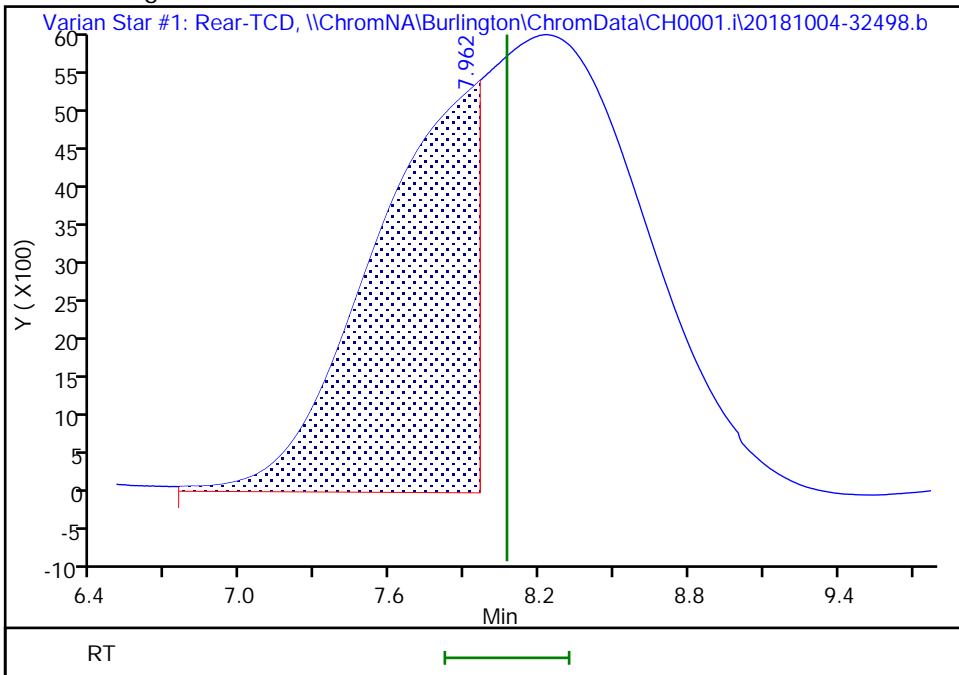
RT: 8.23  
Area: 419193  
Amount: 10.233529  
Amount Units: % v/v

Processing Integration Results



RT: 7.96  
Area: 156065  
Amount: 3.809929  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:24:35  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
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AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Start Date: 08/17/2015 09:23

Analysis Batch Number: 92935 End Date: 08/17/2015 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-92935/1		08/17/2015 09:23	1	ic-01001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/2		08/17/2015 10:20	1	ic-02001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/3		08/17/2015 11:34	1	ic-03002.d-avg	CTR-1 3.175 (mm)
ICIS 200-92935/4		08/17/2015 12:09	1	icis-04001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/5		08/17/2015 13:16	1	co cal1002.d-avg	CTR-1 3.175 (mm)
IC 200-92935/6		08/17/2015 13:48	1	co 10%001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/8		08/17/2015 14:58	1	co2 100%001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/7		08/17/2015 15:46	1	ch4 100%001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/9		08/17/2015 16:49	1	zero air002.d-avg	CTR-1 3.175 (mm)
IC 200-92935/11		08/17/2015 17:37	1	n2 100%002.d-avg	CTR-1 3.175 (mm)
ICV 200-92935/10		08/17/2015 18:25	1	icv002.d-avg	CTR-1 3.175 (mm)



AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Start Date: 10/04/2018 15:14

Analysis Batch Number: 135204 End Date: 10/05/2018 14:21

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-135204/1		10/04/2018 15:14	1	3cccv20181004a.d-avg	CTR-1 3.175 (mm)
LCS 200-135204/2		10/04/2018 15:50	1	3clcs20181004a.d-avg	CTR-1 3.175 (mm)
MB 200-135204/3		10/04/2018 19:09	1	mb20181004a.d-avg	CTR-1 3.175 (mm)
ZZZZZ		10/04/2018 20:13	1.52		CTR-1 3.175 (mm)
ZZZZZ		10/04/2018 21:18	1.48		CTR-1 3.175 (mm)
ZZZZZ		10/04/2018 22:22	1.49		CTR-1 3.175 (mm)
ZZZZZ		10/04/2018 23:26	1.47		CTR-1 3.175 (mm)
200-45482-1		10/05/2018 00:32	1.61	200-45482-a-1a.d-avg	CTR-1 3.175 (mm)
200-45482-2		10/05/2018 01:39	2.12	200-45482-a-2a.d-avg	CTR-1 3.175 (mm)
200-45482-3		10/05/2018 02:44	1.93	200-45482-a-3a.d-avg	CTR-1 3.175 (mm)
200-45482-4		10/05/2018 08:11	1.88	200-45482-a-4a.d-avg	CTR-1 3.175 (mm)
200-45482-5		10/05/2018 09:16	1.89	200-45482-a-5a.d-avg	CTR-1 3.175 (mm)
200-45482-6		10/05/2018 10:21	1.91	200-45482-a-6a.d-avg	CTR-1 3.175 (mm)
200-45482-7		10/05/2018 11:25	1.78	200-45482-a-7a.d-avg	CTR-1 3.175 (mm)
200-45482-8		10/05/2018 12:29	1.91	200-45482-a-8a.d-avg	CTR-1 3.175 (mm)
CCVC 200-135204/16		10/05/2018 14:21	1	3ccvc20181005a.d-avg	CTR-1 3.175 (mm)

AIR - GC VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 92935 Batch Start Date: 08/17/15 09:23 Batch Analyst: Desjardins, William R

Batch Method: EPA 3C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	AT3CCAL1i 00014	AT3CCAL2i 00012
IC 200-92935/1		EPA 3C		1	1	2 mL	2 mL	2 mL	
IC 200-92935/2		EPA 3C		1	1	2 mL	2 mL		2 mL
IC 200-92935/3		EPA 3C		1	1	2 mL	2 mL		
ICIS 200-92935/4		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/5		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/6		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/7		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/8		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/9		EPA 3C		1	1	2 mL	2 mL		
ICV 200-92935/10		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/11		EPA 3C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AT3CCAL3i 00012	AT3CCCVs 00060	AT3CCO2s 00009	AT3CCOCa10.1% 00005	AT3CCOs 00004	AT3CLCSs 00003
IC 200-92935/1		EPA 3C							
IC 200-92935/2		EPA 3C							
IC 200-92935/3		EPA 3C		2 mL					
ICIS 200-92935/4		EPA 3C			2 mL				
IC 200-92935/5		EPA 3C					2 mL		
IC 200-92935/6		EPA 3C						2 mL	
IC 200-92935/7		EPA 3C				2 mL			
IC 200-92935/8		EPA 3C							
IC 200-92935/9		EPA 3C							
ICV 200-92935/10		EPA 3C							2 mL
IC 200-92935/11		EPA 3C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	AT3CMETHs 00007	AT3Czeroair 00007	ATnitrogens 00008			
IC 200-92935/1		EPA 3C							

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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 92935 Batch Start Date: 08/17/15 09:23 Batch Analyst: Desjardins, William R

Batch Method: EPA 3C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	AT3CMETHs 00007	AT3Czeroair 00007	ATnitrogens 00008			
IC 200-92935/2		EPA 3C							
IC 200-92935/3		EPA 3C							
ICIS 200-92935/4		EPA 3C							
IC 200-92935/5		EPA 3C							
IC 200-92935/6		EPA 3C							
IC 200-92935/7		EPA 3C							
IC 200-92935/8		EPA 3C		2 mL					
IC 200-92935/9		EPA 3C			2 mL				
ICV 200-92935/10		EPA 3C							
IC 200-92935/11		EPA 3C				2 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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 135204 Batch Start Date: 10/04/18 15:14 Batch Analyst: Desjardins, William R

Batch Method: EPA 3C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	AT3CCCVs 00066	AT3CLCSs 00008
CCV 200-135204/1		EPA 3C		1	1	2 mL	2 mL	2 mL	
LCS 200-135204/2		EPA 3C		1	1	2 mL	2 mL		2 mL
MB 200-135204/3		EPA 3C		1	1	2 mL	2 mL		
200-45482-A-1	KTSG-COMP-1	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-2	KTSG-COMP-2	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-3	KTSG-COMP-3	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-4	KTSG-COMP-4	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-5	KTSG-COMP-5	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-6	KTSG-COMP-6	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-7	KTSG-COMP-7	EPA 3C	T	1	1	2 mL	2 mL		
200-45482-A-8	KTSG-COMP-8	EPA 3C	T	1	1	2 mL	2 mL		
CCVC 200-135204/16		EPA 3C		1	1	2 mL	2 mL	2 mL	

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.

**Post-Sampling Air Canister Pressure Check Record**

Login # (w/ Location Code)	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gauge ID	Analyst		
200-45482	09/28/18	15:29	29.9	22	G17	TM		
Sampling Information and Return Equipment Check				Yes	No	Comments		
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?				Yes				
(2) Is the flow controller ID used for each canister recorded?				Yes				
(3) MA MCP & NJ DKQP: Check return flow rate for flow controllers					No			
(4) Is visible sign of damage to canister and/or flow controller (FC) present?					No			
If damage observed, list equipment IDs and describe condition:								
Post-Sampling Return Pressure Check								
Lab ID	Canister ID	Pressure <sup>1</sup> ("Hg)	Anomaly <sup>2</sup> (Y/N)	FC ID <sup>3</sup>	FC Check <sup>4</sup> Reference	FC Return (Y/N)	Can Cert Batch ID	Comments
200-45482-A-1	5730	-5.9	N	6541	NA	N	5065-32143	
200-45482-A-2	2659	-10.9	Y	4707	NA	N	3660-32006	
200-45482-A-3	4123	-9.8	N	6367	NA	N	3660-32006	
200-45482-A-4	4871	-9.1	N	4608	NA	N	3660-32006	
200-45482-A-5	4136	-9.5	N	5824	NA	N	5065-32143	
200-45482-A-6	5136	-9.3	N	5883	NA	N	5065-32143	
200-45482-A-7	2847	-8.1	N	4643	NA	N	4249-32143	
200-45482-A-8	5979	-9.8	N	4623	NA	N	5065-32143	

<sup>1</sup> Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10"Hg, but have no specific criteria otherwise.

<sup>2</sup> If return pressure is not within criteria, initiate Non-Conformance Memo.

<sup>3</sup> Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

<sup>4</sup> Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

## Summa Canister Dilution Worksheet

Client: PBS Engineering and Environmental

Job No.: 200-45482-1  
SDG No.: 200-45482-1

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
200-45482-1	6	-5.7	0.81	4.86	4.5	1.31	7.84		1.61	1.61	10/05/18	10:11	Desjardins, William R
200-45482-2	6	-10.5	0.65	3.89	5.5	1.37	8.24		2.12	2.12	10/05/18	10:12	Desjardins, William R
200-45482-2	6	1.8	1.06	6.36	28.0	2.90	17.43		2.74	5.80	10/09/18	16:17	Desjardins, William R
200-45482-3	6	-9.5	0.68	4.09	4.7	1.32	7.92		1.93	1.93	10/05/18	10:13	Desjardins, William R
200-45482-4	6	-8.7	0.71	4.26	4.9	1.33	8.00		1.88	1.88	10/05/18	10:13	Desjardins, William R
200-45482-5	6	-8.7	0.71	4.26	5.0	1.34	8.04		1.89	1.89	10/05/18	10:13	Desjardins, William R
200-45482-6	6	-8.9	0.70	4.22	5.0	1.34	8.04		1.91	1.91	10/05/18	10:14	Desjardins, William R
200-45482-7	6	-7.8	0.74	4.44	4.6	1.31	7.88		1.78	1.78	10/05/18	10:14	Desjardins, William R
200-45482-7	6	2.2	1.07	6.44	27.9	2.90	17.39		2.70	4.79	10/09/18	17:15	Desjardins, William R
200-45482-8	6	-9.3	0.69	4.14	4.6	1.31	7.88		1.91	1.91	10/05/18	10:15	Desjardins, William R

**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)

# Method EPA 25C

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Nonmethane Organic Compounds (NMOC)  
by Method EPA\_25C

FORM III  
AIR - GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Matrix: Air Level: Low Lab File ID: 25clcs20181004a.d-avg  
 Lab ID: LCS 200-135207/2 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppm-C)	LCS CONCENTRATION (ppm-C)	LCS % REC	QC LIMITS REC	#
NMOC as Carbon - Uncorrected	750	736	98	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III EPA 25C



FORM III  
AIR - GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Matrix: Air Level: Low Lab File ID: 25clcs20181016a.d-avg  
 Lab ID: LCS 200-135389/2 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppm-C)	LCS CONCENTRATION (ppm-C)	LCS % REC	QC LIMITS REC	#
NMOC as Carbon - Uncorrected	750	734	98	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III EPA 25C

FORM IV  
AIR - GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab File ID: mb20181004a.d-avg Lab Sample ID: MB 200-135207/3  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CH0001.i Date Analyzed: 10/04/2018 19:09  
 GC Column: Carbo/Unibeads ID: 2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-135207/2	25clcs20181004a.d-avg	10/04/2018 18:21
KTSG-COMP-1	200-45482-1	200-45482-a-1b.d-avg	10/05/2018 00:49
KTSG-COMP-2	200-45482-2	200-45482-a-2b.d-avg	10/05/2018 01:56
KTSG-COMP-3	200-45482-3	200-45482-a-3b.d-avg	10/05/2018 03:00
KTSG-COMP-4	200-45482-4	200-45482-a-4b.d-avg	10/05/2018 08:27
KTSG-COMP-5	200-45482-5	200-45482-a-5b.d-avg	10/05/2018 09:32
KTSG-COMP-6	200-45482-6	200-45482-a-6b.d-avg	10/05/2018 10:37
KTSG-COMP-8	200-45482-8	200-45482-a-8b.d-avg	10/05/2018 12:45

FORM IV  
AIR - GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab File ID: mb20181016a.d-avg Lab Sample ID: MB 200-135389/3  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CH0001.i Date Analyzed: 10/16/2018 13:17  
 GC Column: Carbo/Unibeads ID: 2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-135389/2	25clcs20181016a.d-avg	10/16/2018 12:29
KTSG-COMP-7	200-45482-7	200-45482-a-7k.d-avg	10/16/2018 14:21

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-1</u>	Lab Sample ID: <u>200-45482-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-1b.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/24/2018 10:54</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 00:49</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.61</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135207</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1500		9.7	9.7
STL02483	NMOC as Carbon - N2 Corrected	1700		9.7	9.7
STL02482	NMOC as Carbon - O2 Corrected	1600		9.7	9.7

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1b.d  
 Lims ID: 200-45482-A-1  
 Client ID: KTSG-COMP-1  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 00:49:01 ALS Bottle#: 0 Worklist Smp#: 22  
 Purge Vol: 2.000 mL Dil. Factor: 1.6100  
 Sample Info: 200-45482-A-1a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:39:16

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.017	9.908	0.109	17706226	984.0	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1c.d  
 Lims ID: 200-45482-A-1  
 Client ID: KTSG-COMP-1  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 01:06:19 ALS Bottle#: 0 Worklist Smp#: 23  
 Purge Vol: 2.000 mL Dil. Factor: 1.6100  
 Sample Info: 200-45482-A-1b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:39:33

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.035	9.908	0.127	16850855	936.4	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1d.d  
 Lims ID: 200-45482-A-1  
 Client ID: KTSG-COMP-1  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 01:23:05 ALS Bottle#: 0 Worklist Smp#: 24  
 Purge Vol: 2.000 mL Dil. Factor: 1.6100  
 Sample Info: 200-45482-A-1c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:39:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.035	9.908	0.127	16521908	918.1	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-1b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-1c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-1d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	17706226	16850855	16521908	17026329.67	3.99

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	983.95	936.42	918.14	946.17	3.99



Report Date: 13-Oct-2018 14:47:05

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1b.d

Injection Date: 05-Oct-2018 00:49:01

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-1

Lab Sample ID: 200-45482-1

Worklist Smp#: 22

Client ID: KTSG-COMP-1

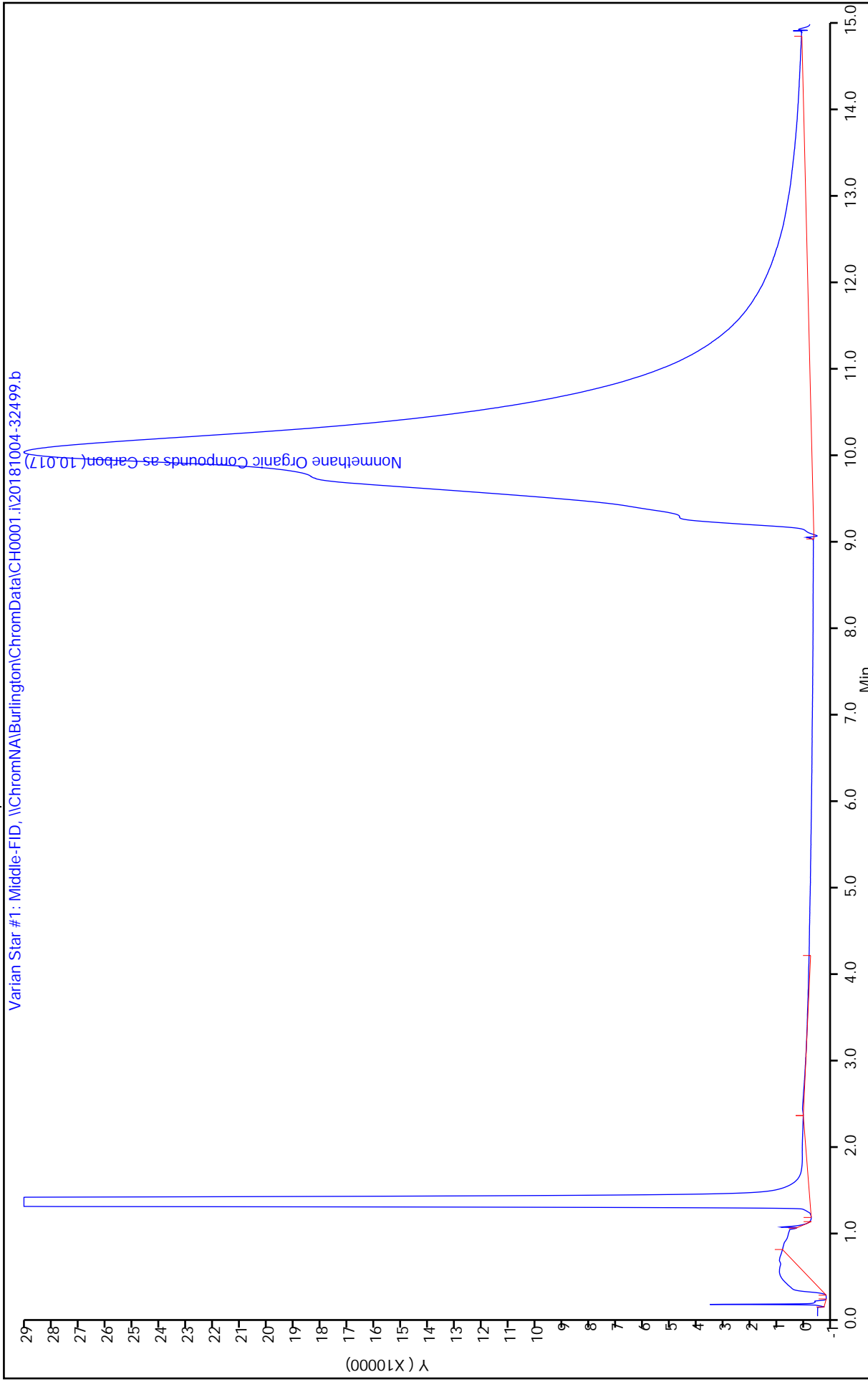
Purge Vol: 2.000 mL

Dil. Factor: 1.6100

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:47:08

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1.c.d

Injection Date: 05-Oct-2018 01:06:19

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-1

Lab Sample ID: 200-45482-1

Worklist Smp#: 23

Client ID: KTSG-COMP-1

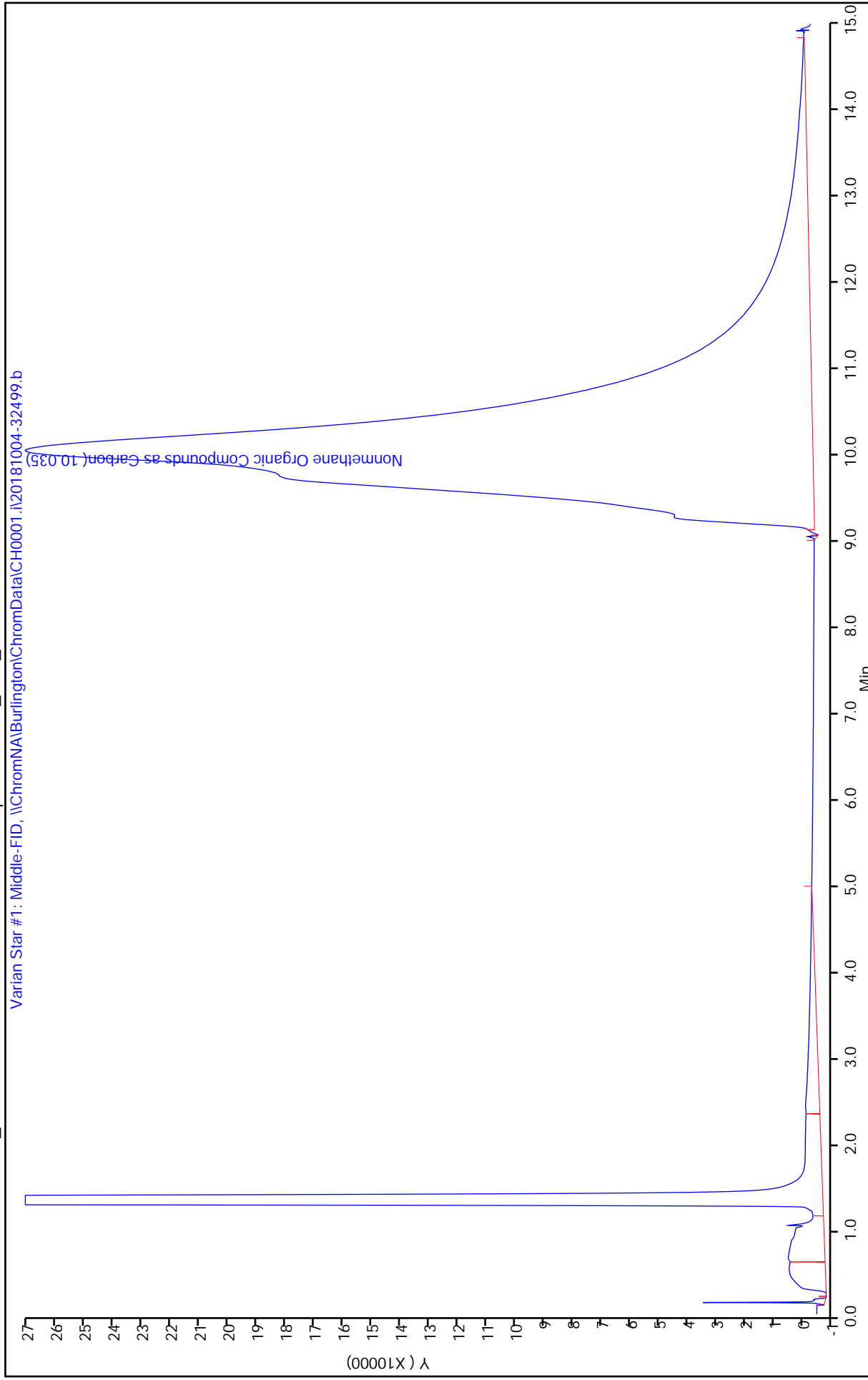
Purge Vol: 2.000 mL

Dil. Factor: 1.6100

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:47:10

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1d.d

Injection Date: 05-Oct-2018 01:23:05

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-1

Lab Sample ID: 200-45482-1

Worklist Smp#: 24

Client ID: KTSG-COMP-1

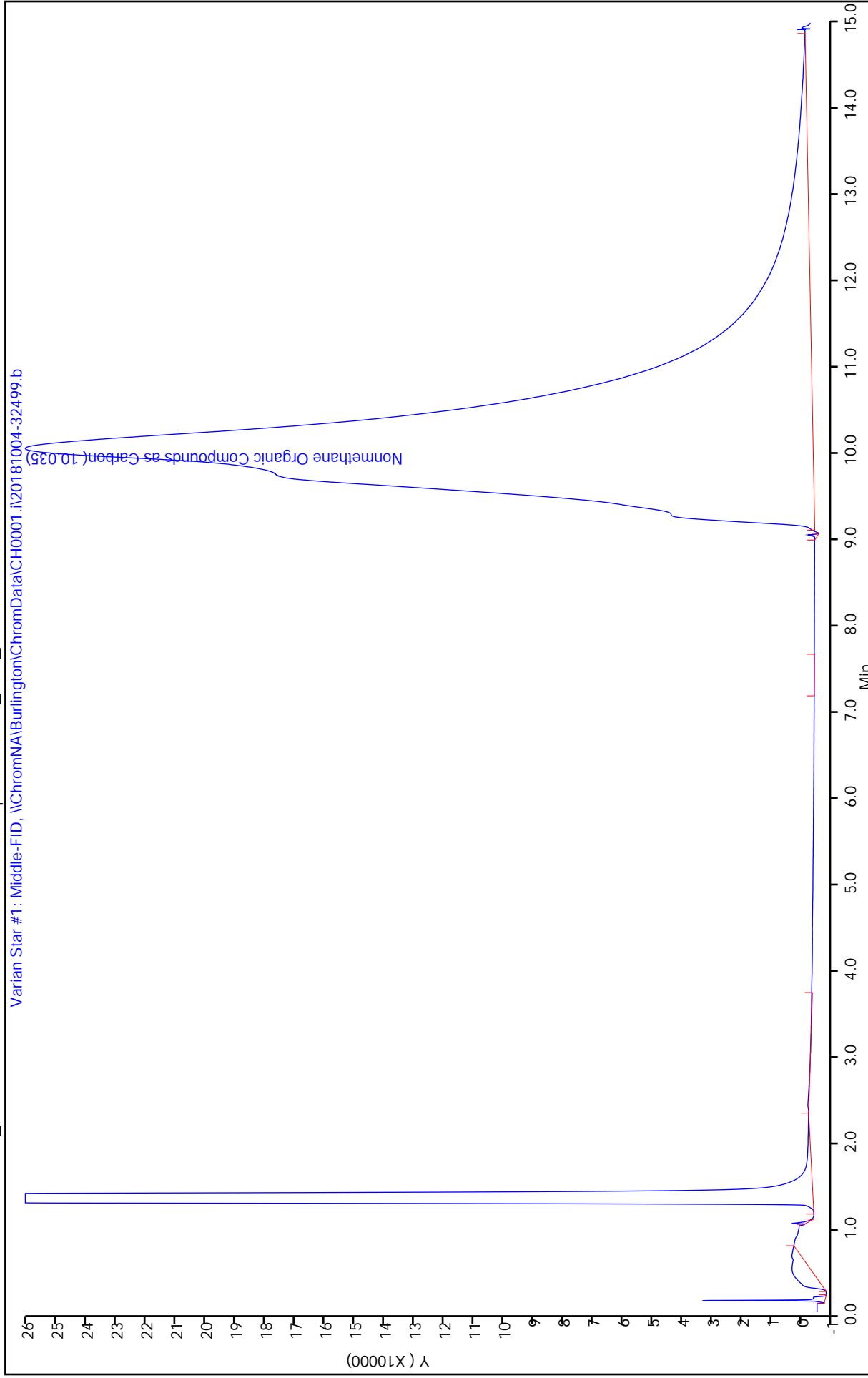
Purge Vol: 2.000 mL

Dil. Factor: 1.6100

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

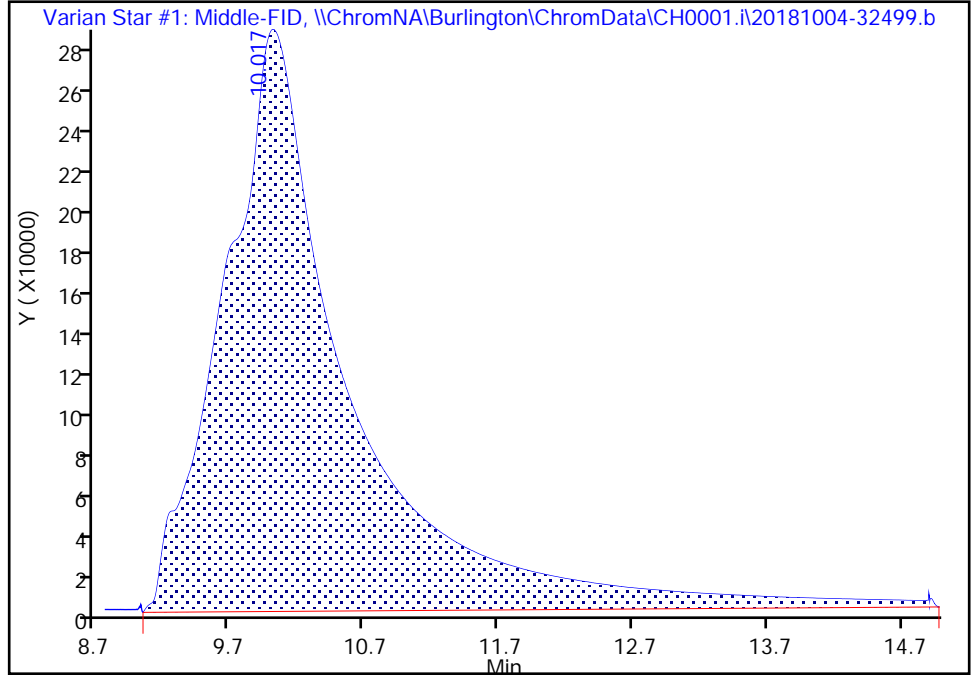
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1b.d  
Injection Date: 05-Oct-2018 00:49:01 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 22  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

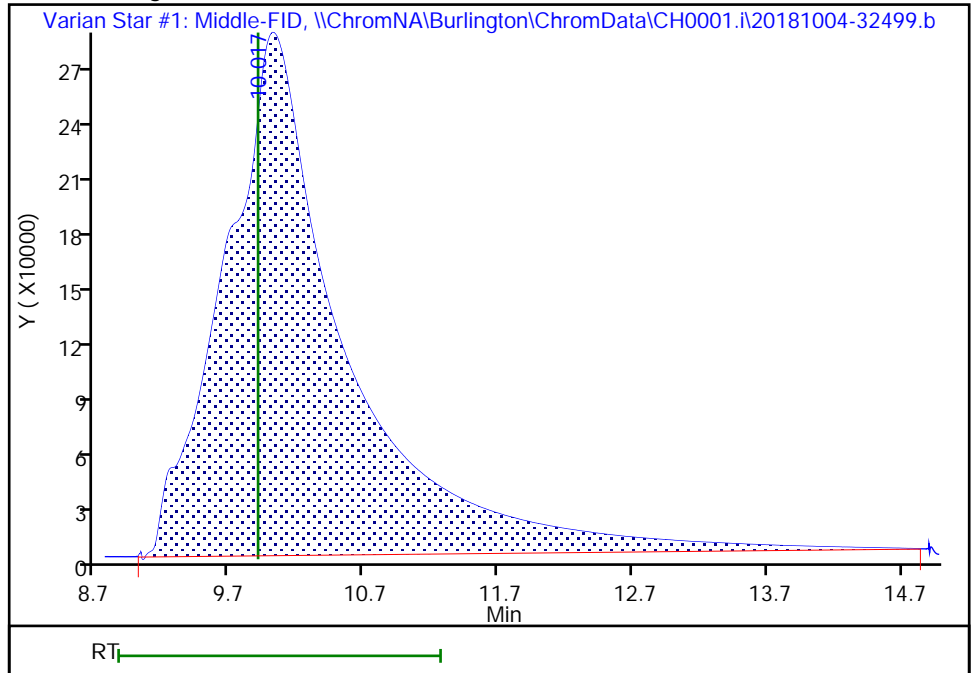
RT: 10.02  
Area: 18426353  
Amount: 1023.9720  
Amount Units: ppm-C

Processing Integration Results



RT: 10.02  
Area: 17706226  
Amount: 983.9538  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:39:14  
Audit Action: Manually Integrated

TestAmerica Burlington

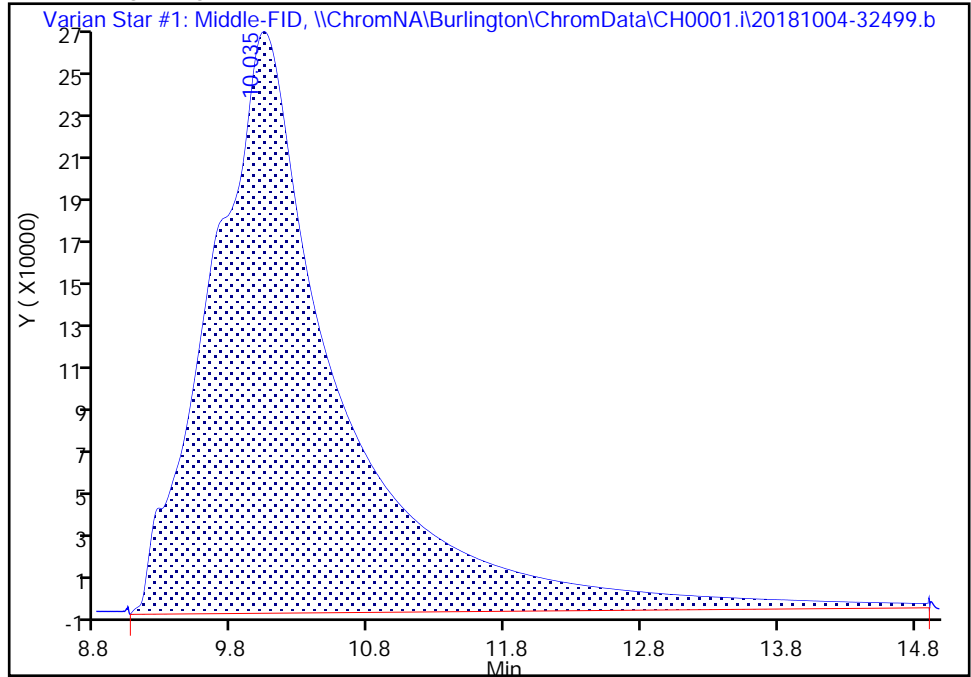
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1c.d  
Injection Date: 05-Oct-2018 01:06:19 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 23  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

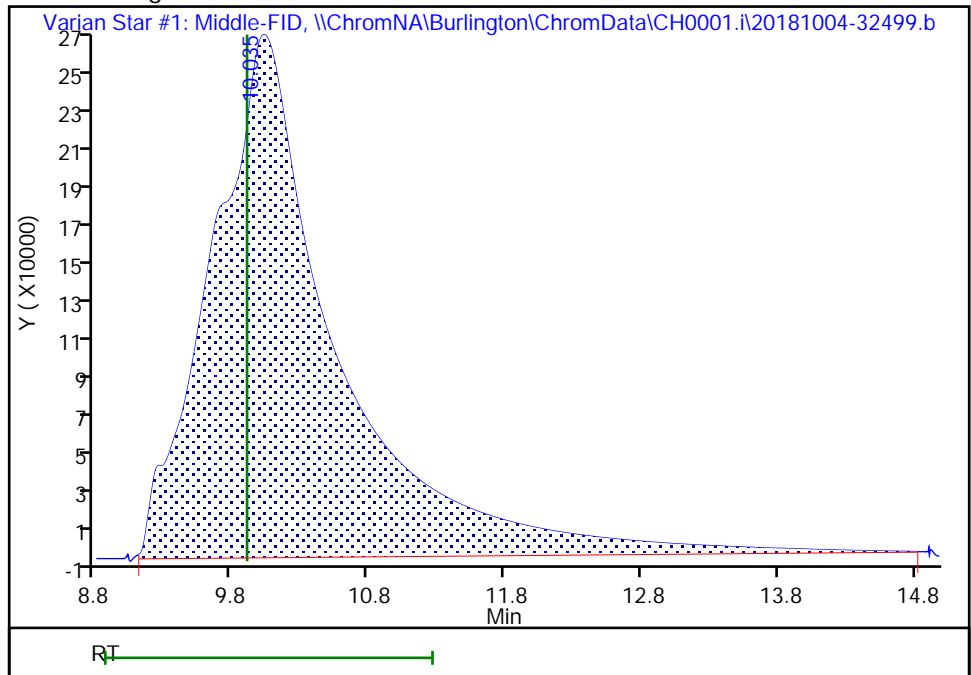
RT: 10.04  
Area: 17340561  
Amount: 963.6334  
Amount Units: ppm-C

Processing Integration Results



RT: 10.04  
Area: 16850855  
Amount: 936.4199  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:39:32  
Audit Action: Manually Integrated

TestAmerica Burlington

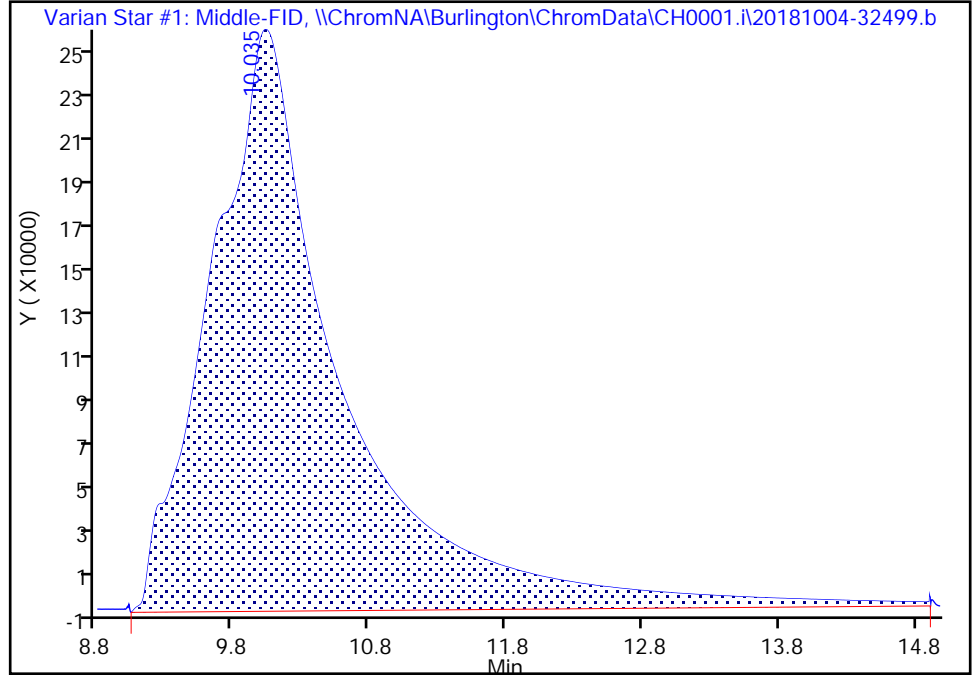
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-1d.d  
Injection Date: 05-Oct-2018 01:23:05 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-1 Lab Sample ID: 200-45482-1  
Client ID: KTSG-COMP-1  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 24  
Purge Vol: 2.000 mL Dil. Factor: 1.6100  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

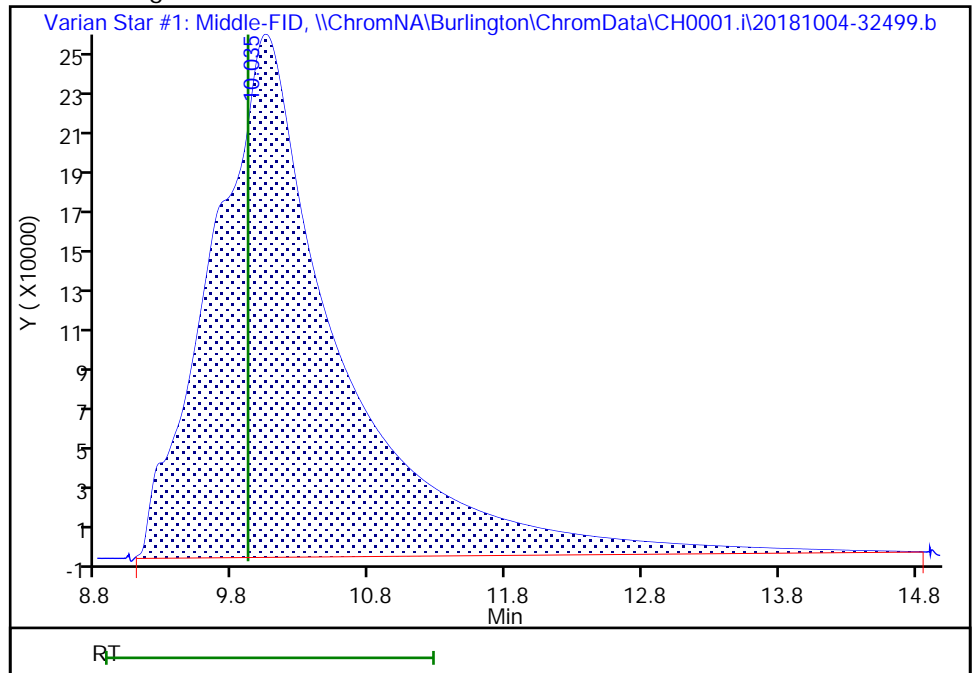
RT: 10.04  
Area: 17051177  
Amount: 947.5520  
Amount Units: ppm-C

Processing Integration Results



RT: 10.04  
Area: 16521908  
Amount: 918.1400  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:39:48  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: KTSG-COMP-2 Lab Sample ID: 200-45482-2  
 Matrix: Air Lab File ID: 200-45482-a-2b.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/24/2018 13:19  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/05/2018 01:56  
 Soil Aliquot Vol.: \_\_\_\_\_ Dilution Factor: 2.12  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1100		13	13
STL02483	NMOC as Carbon - N2 Corrected	1400		13	13
STL02482	NMOC as Carbon - O2 Corrected	1200		13	13

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2b.d  
 Lims ID: 200-45482-A-2  
 Client ID: KTSG-COMP-2  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 01:56:06 ALS Bottle#: 0 Worklist Smp#: 25  
 Purge Vol: 2.000 mL Dil. Factor: 2.1200  
 Sample Info: 200-45482-A-2a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:40:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.943	9.908	0.035	9413496	523.1	M

**QC Flag Legend**

Review Flags

M - Manually Integrated



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2c.d  
 Lims ID: 200-45482-A-2  
 Client ID: KTSG-COMP-2  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 02:12:10 ALS Bottle#: 0 Worklist Smp#: 26  
 Purge Vol: 2.000 mL Dil. Factor: 2.1200  
 Sample Info: 200-45482-A-2b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:40:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.958	9.908	0.050	9136852	507.7	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2d.d  
 Lims ID: 200-45482-A-2  
 Client ID: KTSG-COMP-2  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 02:28:14 ALS Bottle#: 0 Worklist Smp#: 27  
 Purge Vol: 2.000 mL Dil. Factor: 2.1200  
 Sample Info: 200-45482-A-2c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:40:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.950	9.908	0.042	9053259	503.1	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-2b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-2c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-2d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	9413496	9136852	9053259	9201202.33	2.31

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	523.12	507.74	503.1	511.32	2.31

Report Date: 13-Oct-2018 14:47:13

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2b.d

Injection Date: 05-Oct-2018 01:56:06

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-2

Lab Sample ID: 200-45482-2

Worklist Smp#: 25

Client ID: KTSG-COMP-2

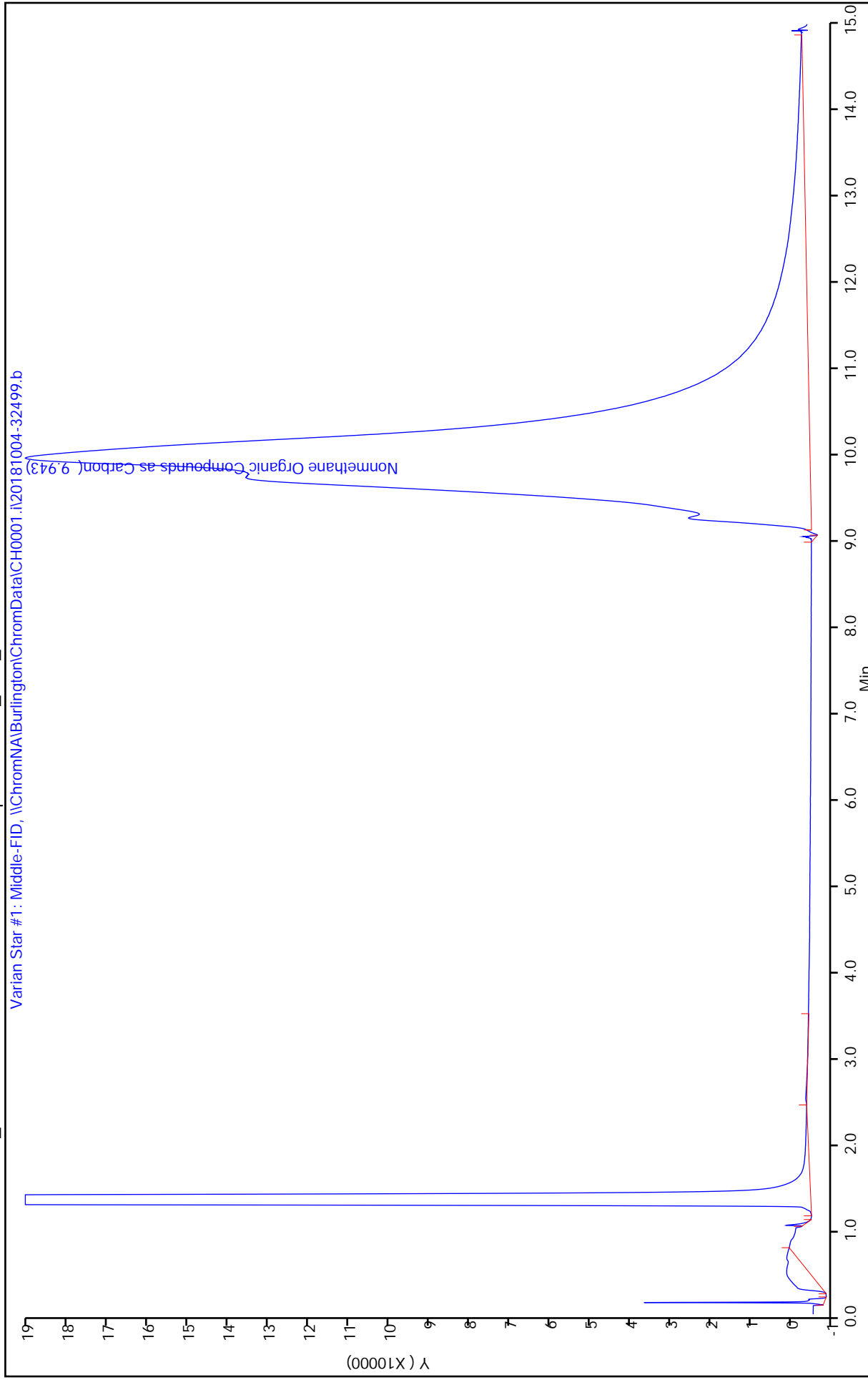
Purge Vol: 2.000 mL

Dil. Factor: 2.1200

ALS Bottle#: 0

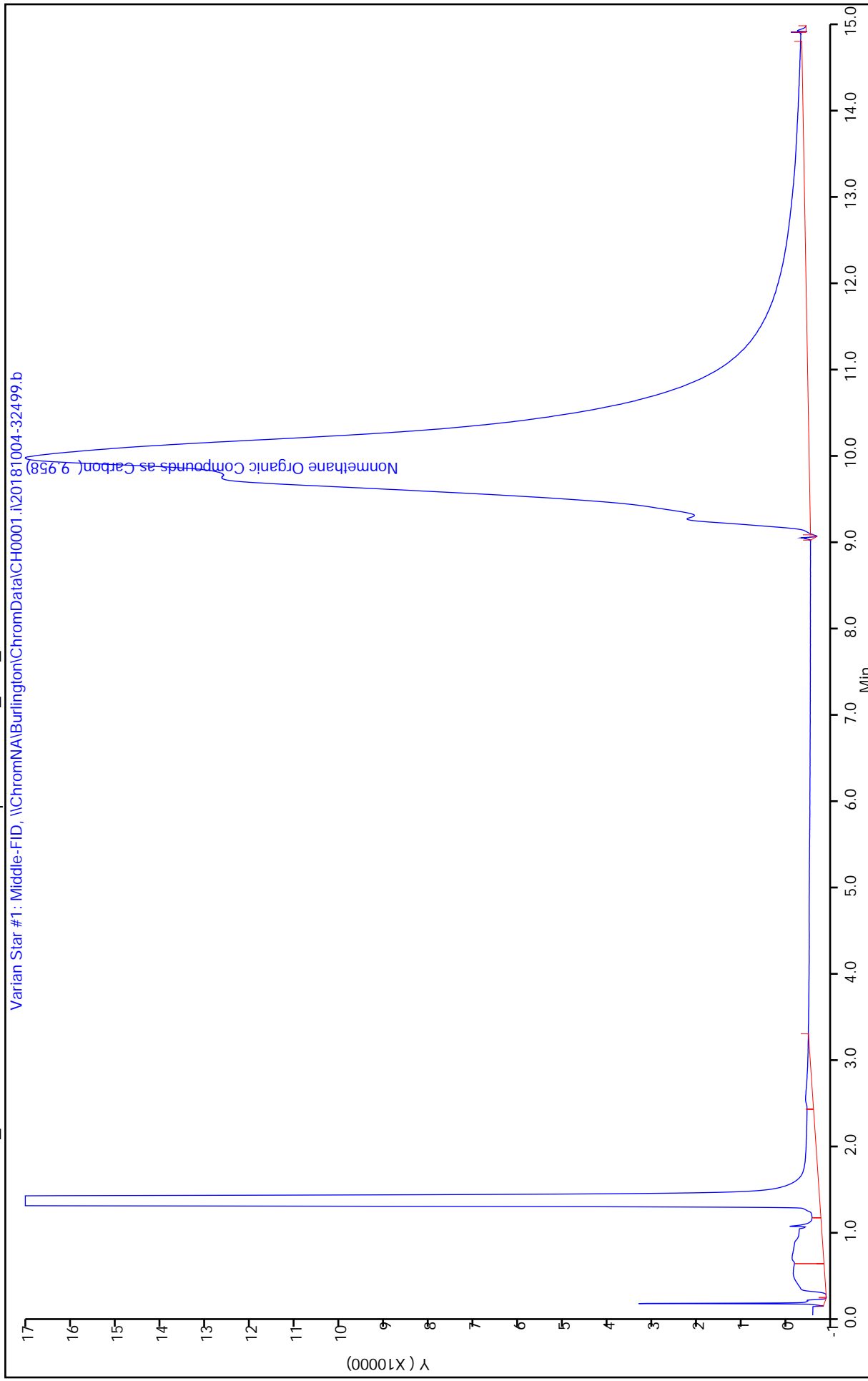
Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2c.d  
Injection Date: 05-Oct-2018 02:12:10 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2 Worklist Smp#: 26  
Client ID: KTSG-COMP-2 Dil. Factor: 2.1200 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



Report Date: 13-Oct-2018 14:47:18

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2d.d

Injection Date: 05-Oct-2018 02:28:14

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-2

Lab Sample ID: 200-45482-2

Worklist Smp#: 27

Client ID: KTSG-COMP-2

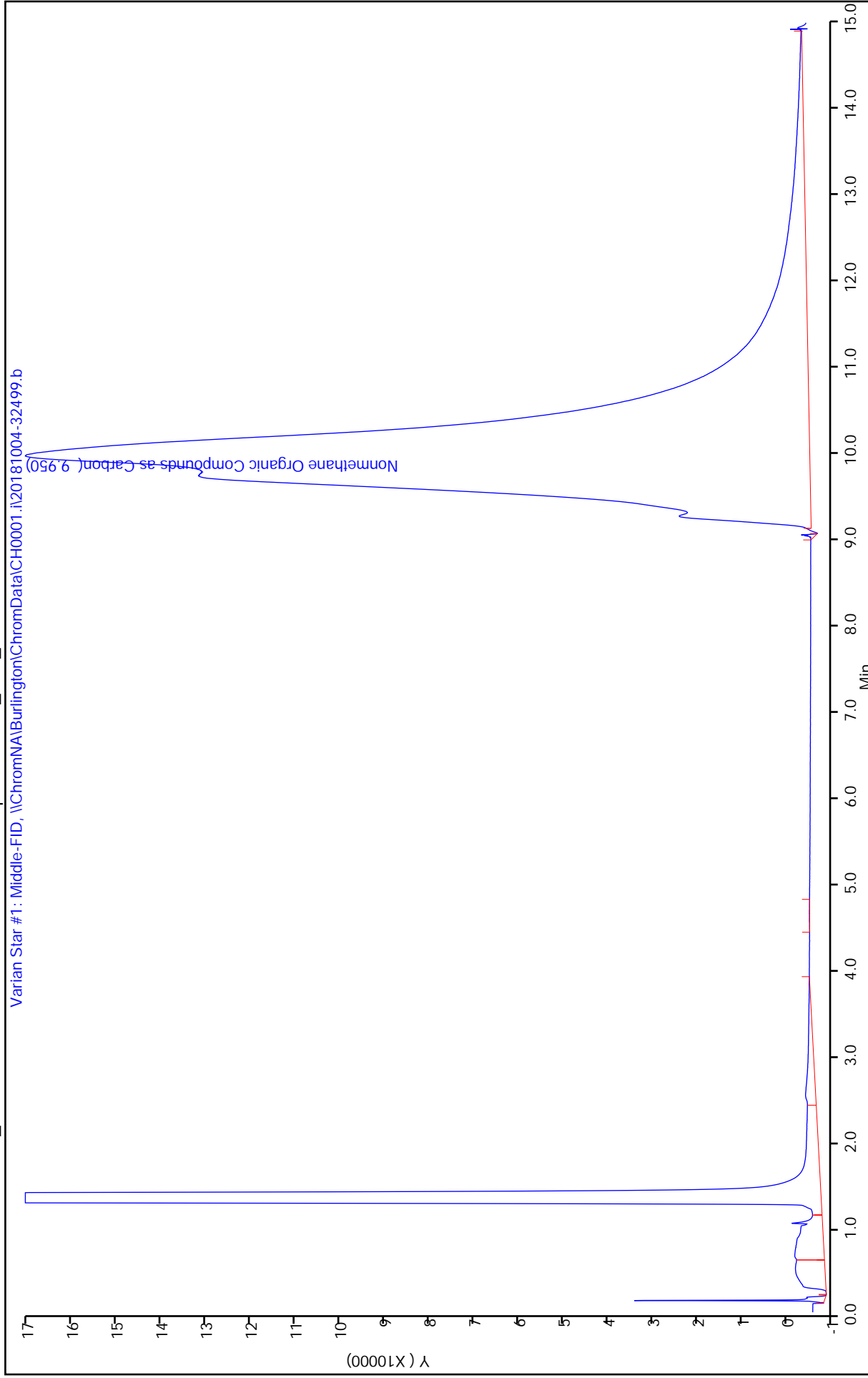
Purge Vol: 2.000 mL

ALS Bottle#: 0

Method: EPA25C\_0001.i

Dil. Factor: 2.1200

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

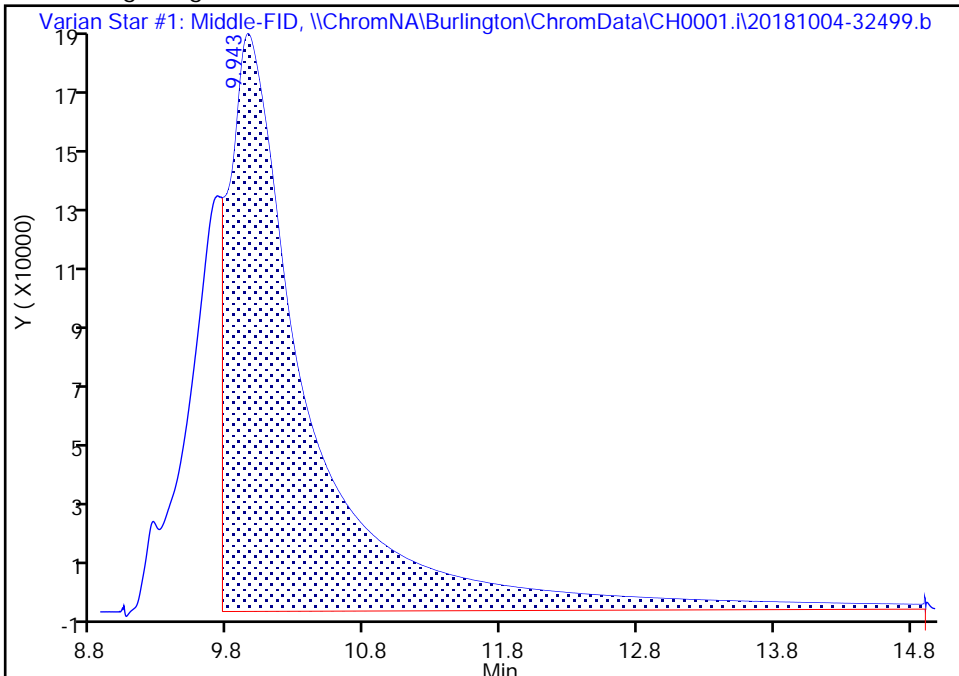
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2b.d  
Injection Date: 05-Oct-2018 01:56:06 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2  
Client ID: KTSG-COMP-2  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 25  
Purge Vol: 2.000 mL Dil. Factor: 2.1200  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

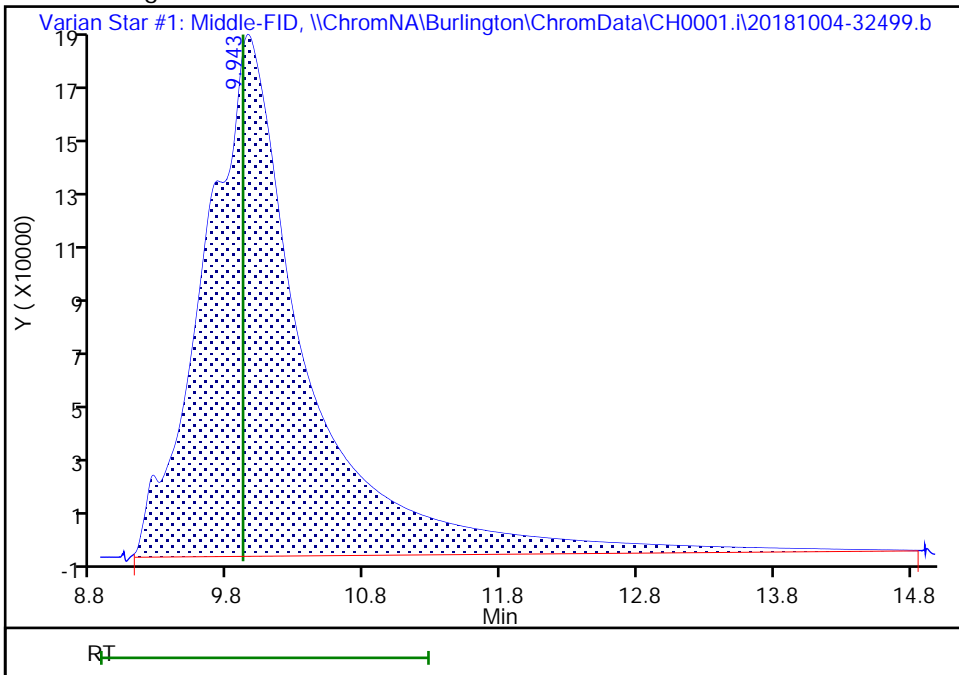
RT: 9.94  
Area: 7390129  
Amount: 410.6773  
Amount Units: ppm-C

Processing Integration Results



RT: 9.94  
Area: 9413496  
Amount: 523.1180  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:40:04  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

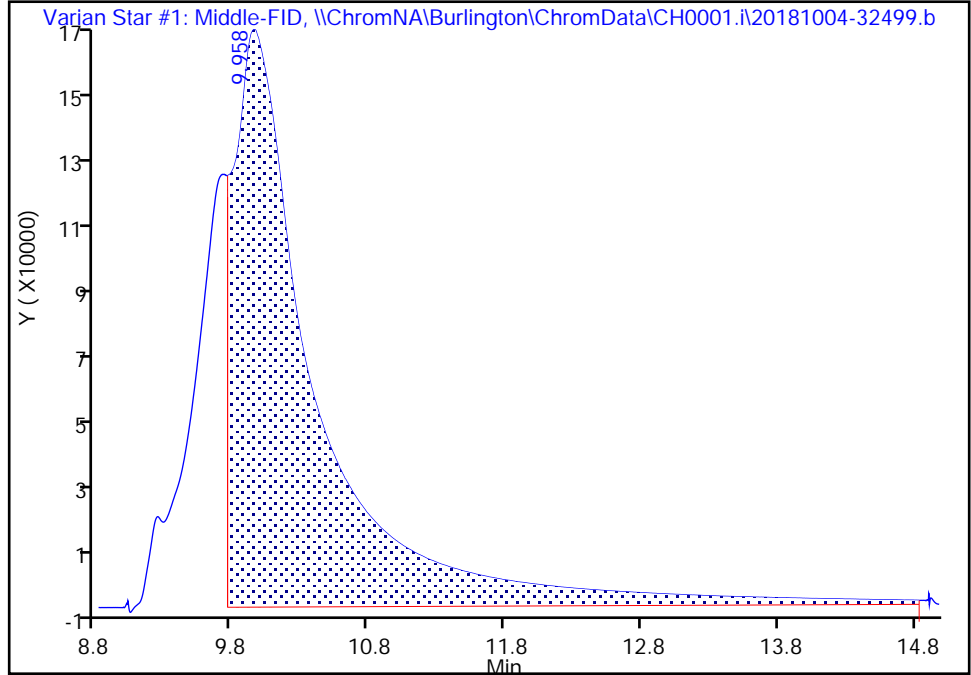
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2c.d  
Injection Date: 05-Oct-2018 02:12:10 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2  
Client ID: KTSG-COMP-2  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 26  
Purge Vol: 2.000 mL Dil. Factor: 2.1200  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

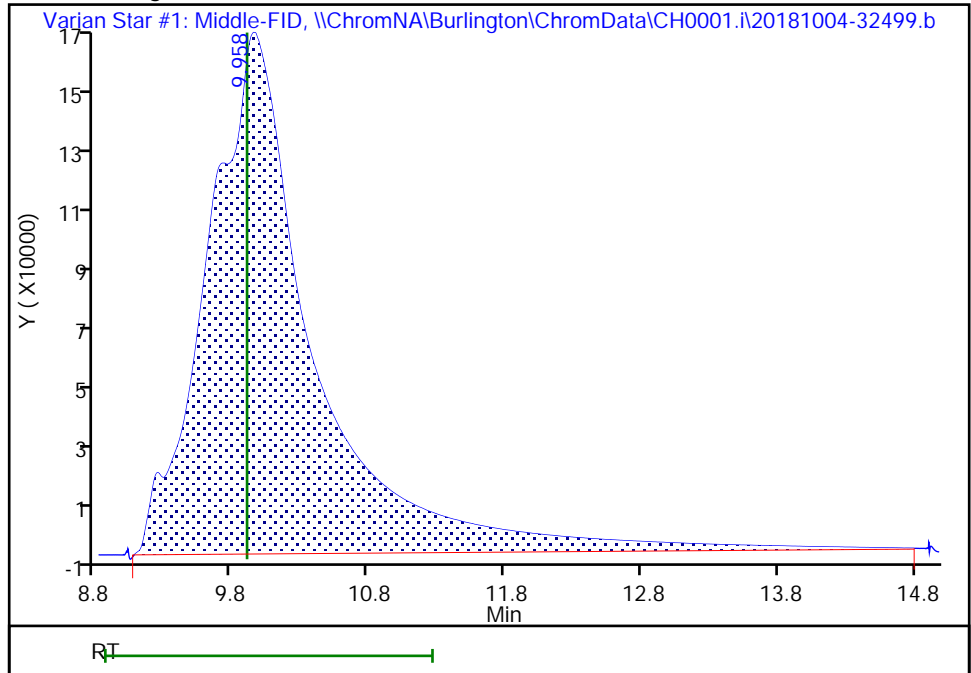
RT: 9.96  
Area: 7097959  
Amount: 394.4411  
Amount Units: ppm-C

Processing Integration Results



RT: 9.96  
Area: 9136852  
Amount: 507.7446  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:40:20  
Audit Action: Manually Integrated



TestAmerica Burlington

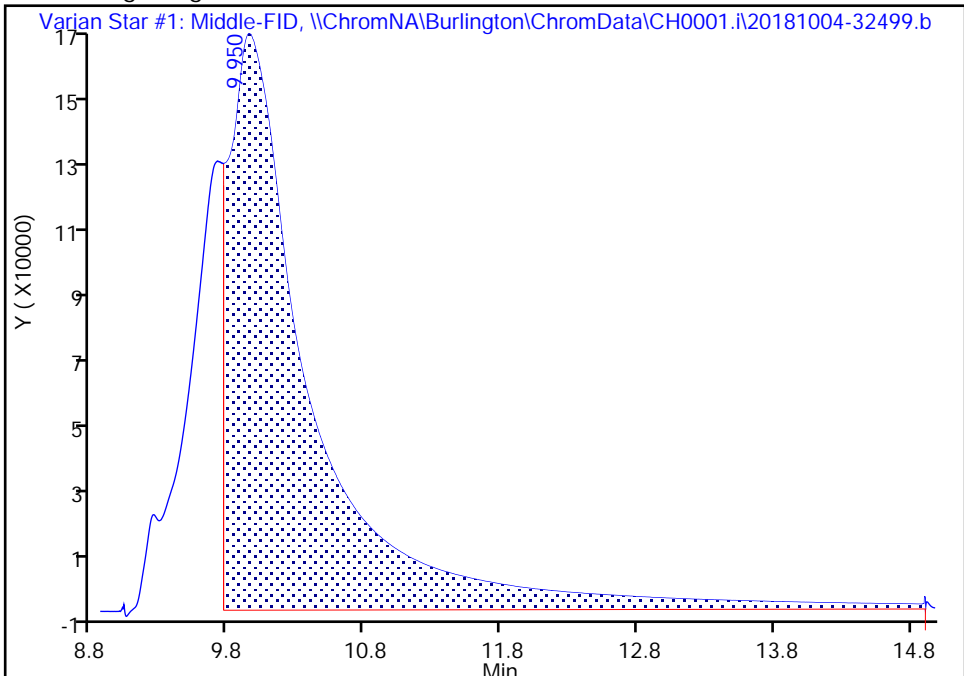
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-2d.d  
Injection Date: 05-Oct-2018 02:28:14 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-2 Lab Sample ID: 200-45482-2  
Client ID: KTSG-COMP-2  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 27  
Purge Vol: 2.000 mL Dil. Factor: 2.1200  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

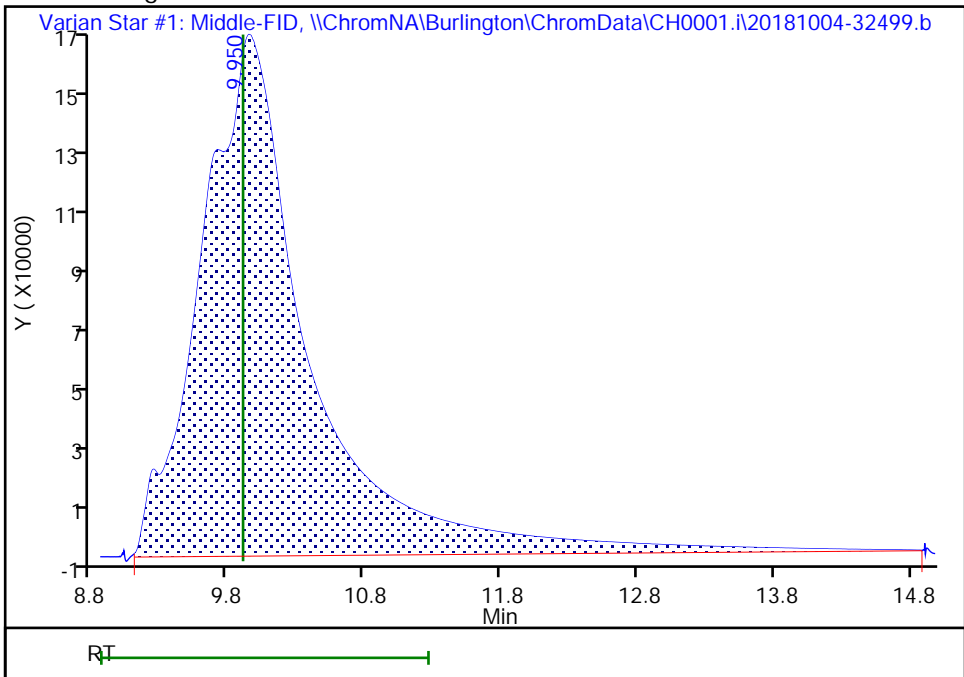
Processing Integration Results

RT: 9.95  
Area: 6928833  
Amount: 385.0426  
Amount Units: ppm-C



Manual Integration Results

RT: 9.95  
Area: 9053259  
Amount: 503.0992  
Amount Units: ppm-C



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: KTSG-COMP-3 Lab Sample ID: 200-45482-3  
 Matrix: Air Lab File ID: 200-45482-a-3b.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/24/2018 15:16  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/05/2018 03:00  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1.93  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1100		12	12
STL02483	NMOC as Carbon - N2 Corrected	1300		12	12
STL02482	NMOC as Carbon - O2 Corrected	1200		12	12

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-3b.d  
 Lims ID: 200-45482-A-3  
 Client ID: KTSG-COMP-3  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 03:00:27 ALS Bottle#: 0 Worklist Smp#: 28  
 Purge Vol: 2.000 mL Dil. Factor: 1.9300  
 Sample Info: 200-45482-A-3a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:40:56

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.920	9.908	0.012	10121913	562.5	

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-3c.d  
 Lims ID: 200-45482-A-3  
 Client ID: KTSG-COMP-3  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 03:16:31 ALS Bottle#: 0 Worklist Smp#: 29  
 Purge Vol: 2.000 mL Dil. Factor: 1.9300  
 Sample Info: 200-45482-A-3b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:41:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.920	9.908	0.012	10278926	571.2	

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-3d.d  
 Lims ID: 200-45482-A-3  
 Client ID: KTSG-COMP-3  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 03:32:31 ALS Bottle#: 0 Worklist Smp#: 30  
 Purge Vol: 2.000 mL Dil. Factor: 1.9300  
 Sample Info: 200-45482-A-3c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:41:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.925	9.908	0.017	10086542	560.5	

Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-3b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-3c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-3d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	10121913	10278926	10086542	10162460.33	1.15

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	562.49	571.21	560.52	564.74	1.15

Report Date: 13-Oct-2018 14:47:22

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-3b.d

Injection Date: 05-Oct-2018 03:00:27

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-3

Lab Sample ID: 200-45482-3

Worklist Smp#: 28

Client ID: KTSG-COMP-3

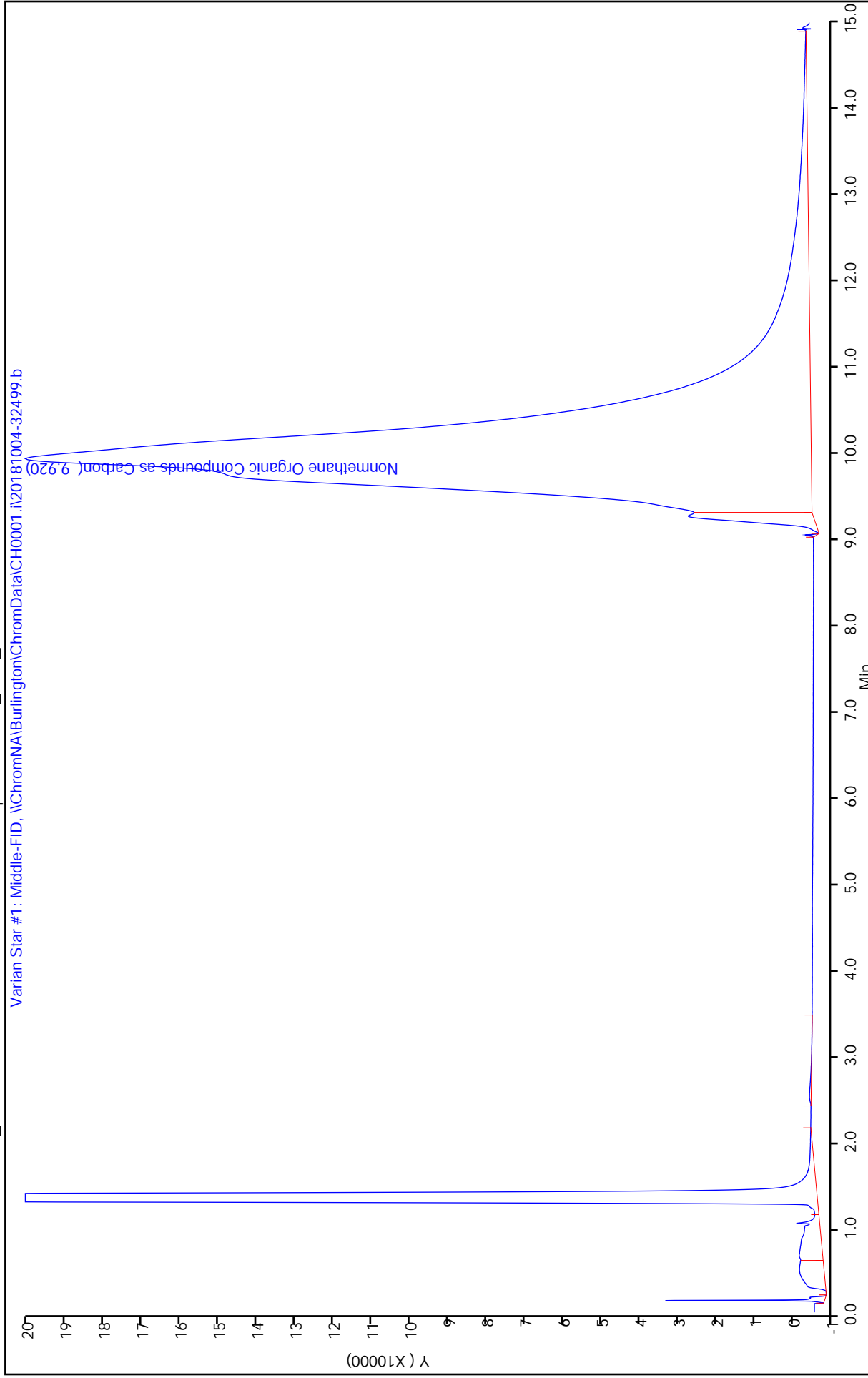
Purge Vol: 2.000 mL

ALS Bottle#: 0

Method: EPA25C\_0001.i

Dil. Factor: 1.9300

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:47:25

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-3c.d

Injection Date: 05-Oct-2018 03:16:31

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-3

Lab Sample ID: 200-45482-3

Worklist Smp#: 29

Client ID: KTSG-COMP-3

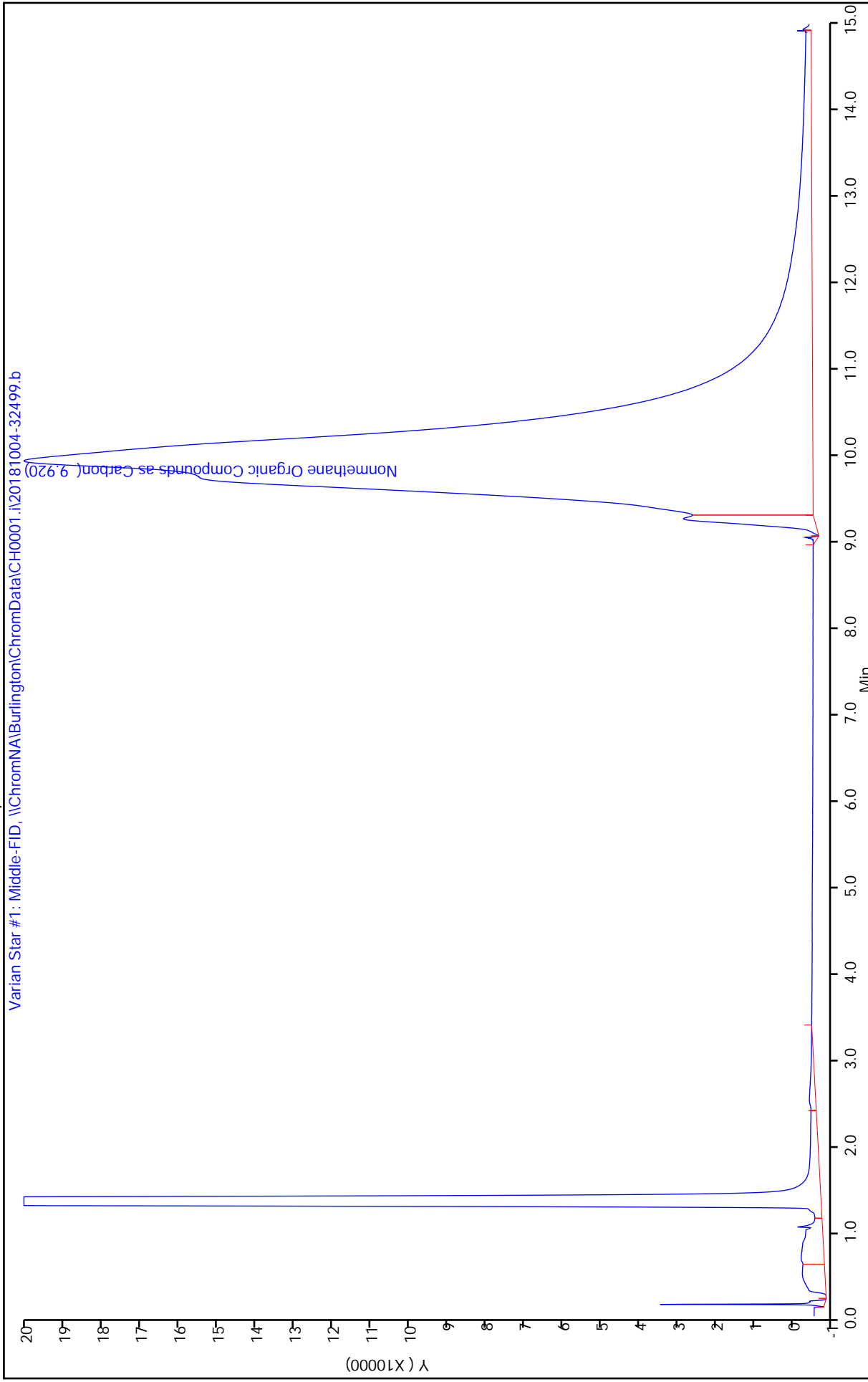
Purge Vol: 2.000 mL

Dil. Factor: 1.9300

ALS Bottle#: 0

Method: EPA25C\_0001.i

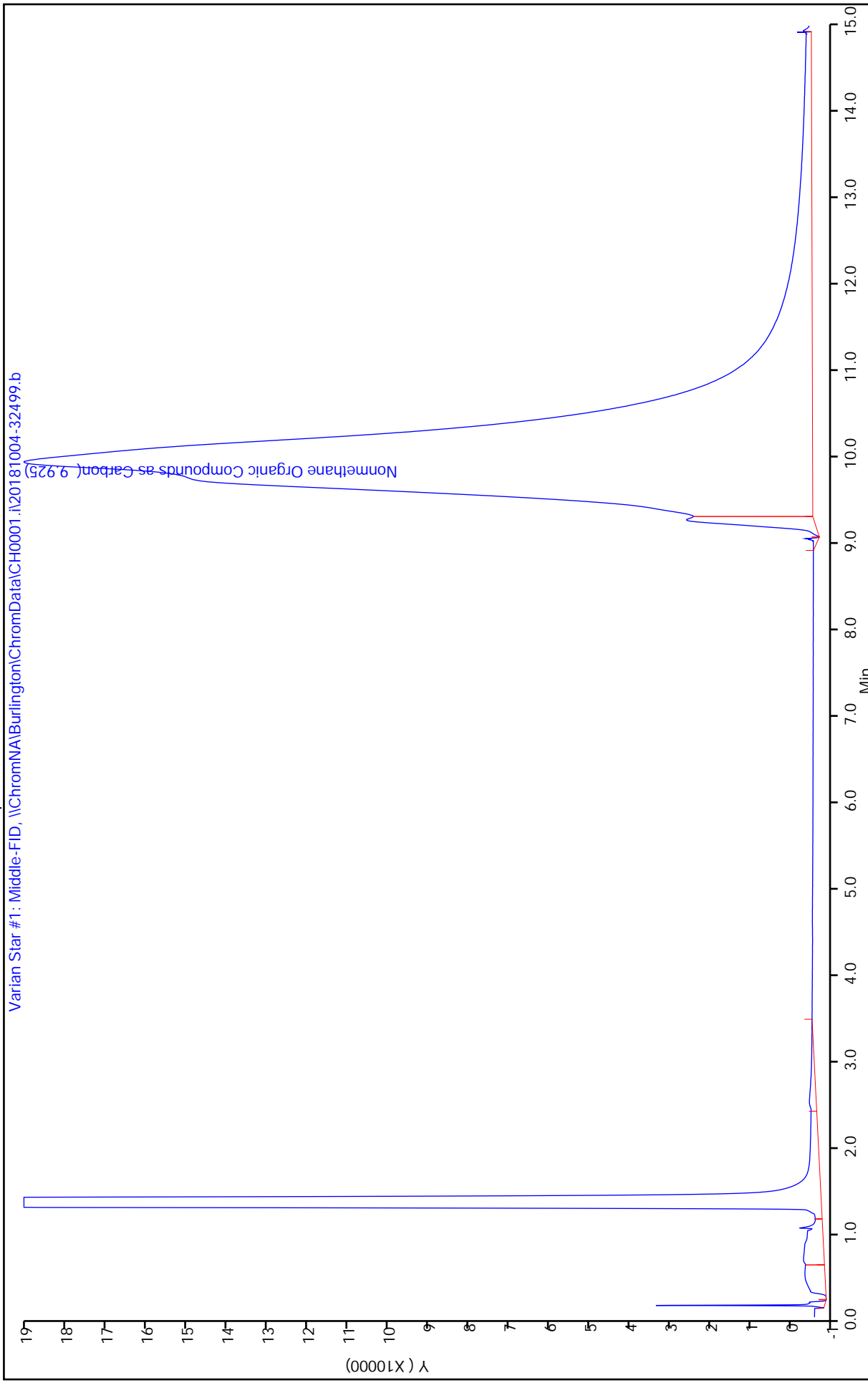
Limit Group: AI\_25C\_Limits





TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-3d.d  
Injection Date: 05-Oct-2018 03:32:31 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-3 Lab Sample ID: 200-45482-3 Worklist Smp#: 30  
Client ID: KTSG-COMP-3 Dil. Factor: 1.9300 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: KTSG-COMP-4 Lab Sample ID: 200-45482-4  
 Matrix: Air Lab File ID: 200-45482-a-4b.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/25/2018 09:14  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/05/2018 08:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1.88  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	980		11	11
STL02483	NMOC as Carbon - N2 Corrected	1400		11	11
STL02482	NMOC as Carbon - O2 Corrected	1100		11	11

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4b.d  
 Lims ID: 200-45482-A-4  
 Client ID: KTSG-COMP-4  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 08:27:28 ALS Bottle#: 0 Worklist Smp#: 31  
 Purge Vol: 2.000 mL Dil. Factor: 1.8800  
 Sample Info: 200-45482-A-4a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:41:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.987	9.908	0.079	9442431	524.7	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4c.d  
 Lims ID: 200-45482-A-4  
 Client ID: KTSG-COMP-4  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 08:43:33 ALS Bottle#: 0 Worklist Smp#: 32  
 Purge Vol: 2.000 mL Dil. Factor: 1.8800  
 Sample Info: 200-45482-A-4b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:41:46

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.995	9.908	0.087	9454032	525.4	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4d.d  
 Lims ID: 200-45482-A-4  
 Client ID: KTSG-COMP-4  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 09:00:16 ALS Bottle#: 0 Worklist Smp#: 33  
 Purge Vol: 2.000 mL Dil. Factor: 1.8800  
 Sample Info: 200-45482-A-4c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:42:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.962	9.908	0.054	9382117	521.4	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-4b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-4c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-4d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

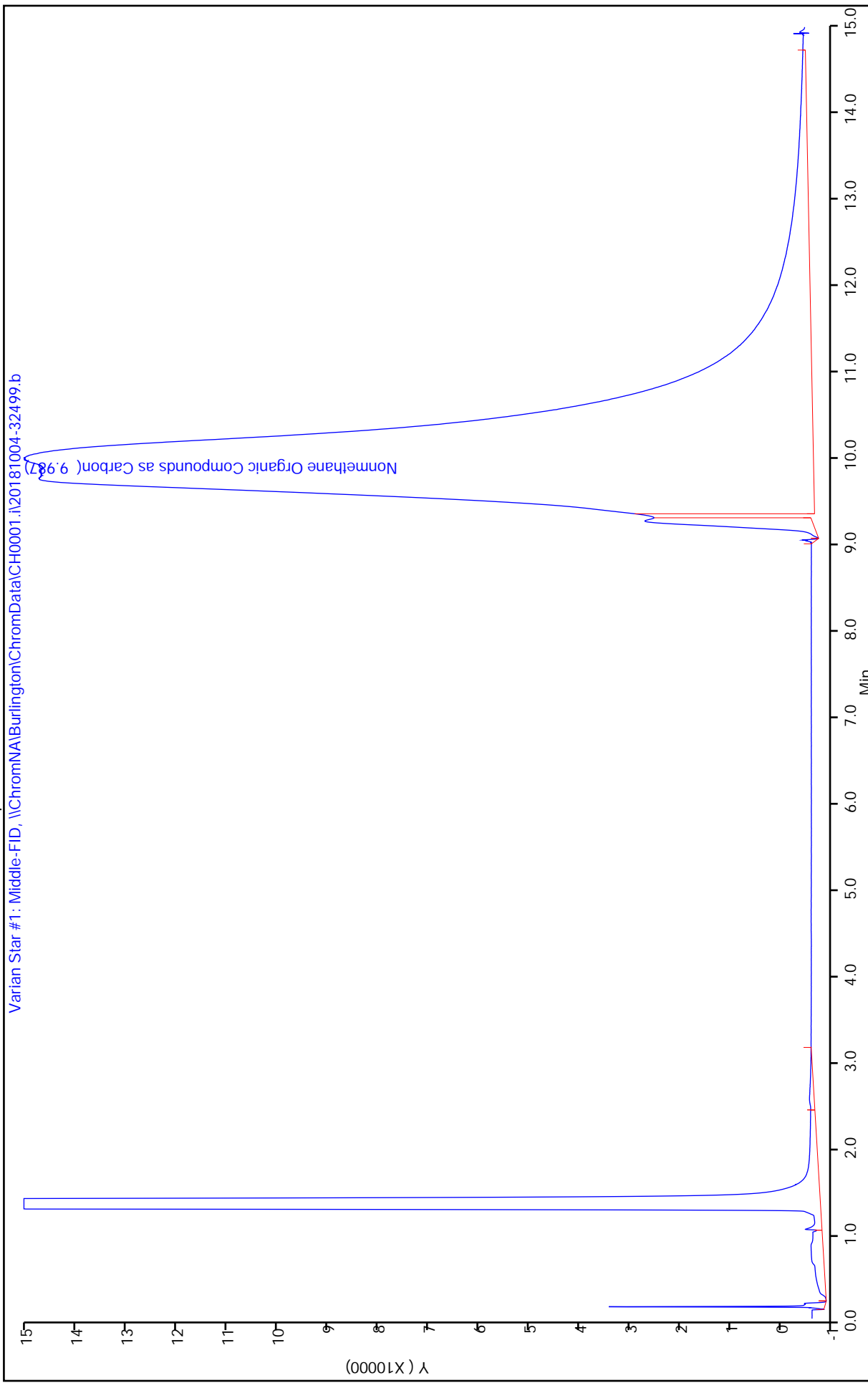
Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	9442431	9454032	9382117	9426193.33	0.47

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	524.73	525.37	521.37	523.82	0.47

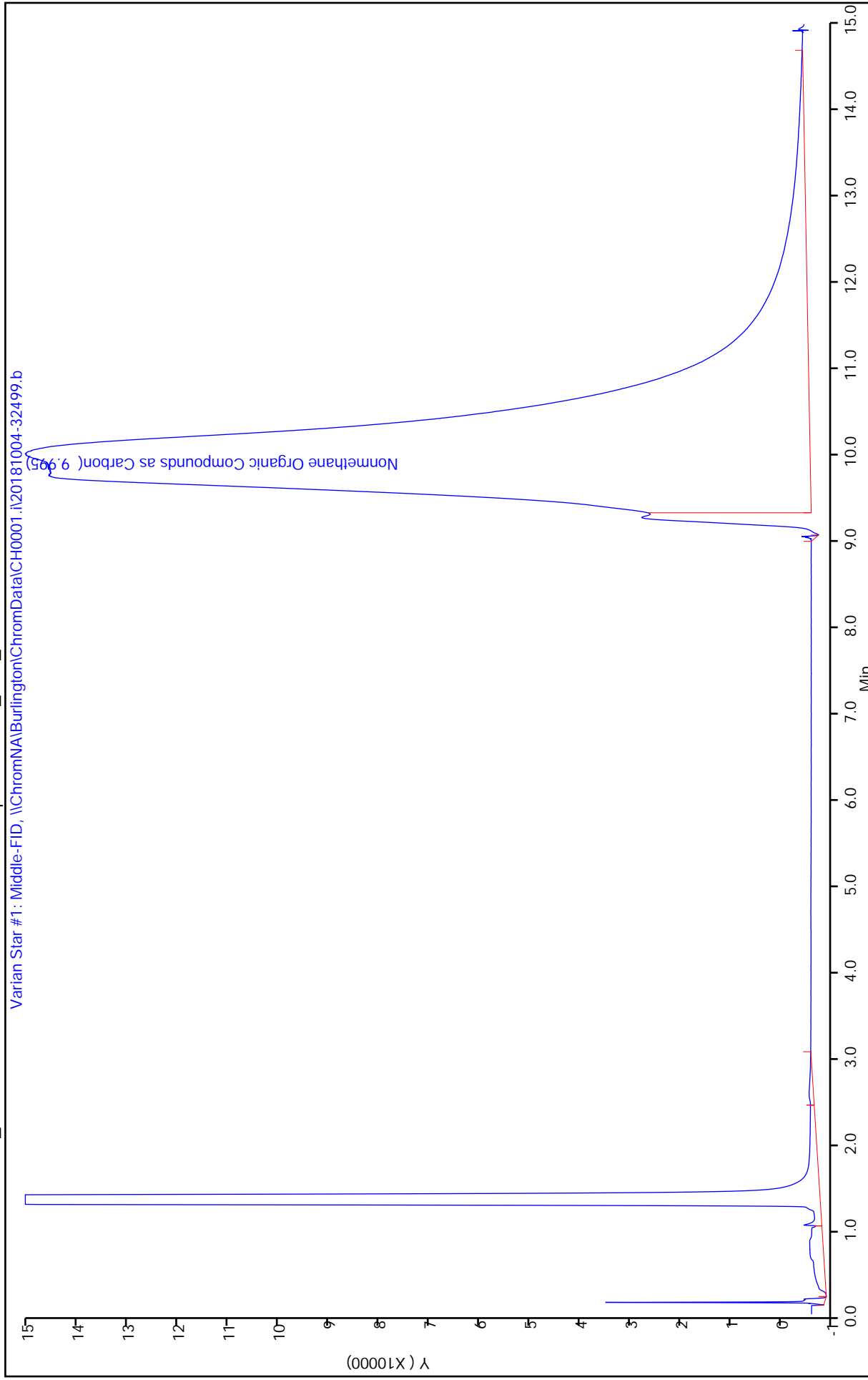
TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4b.d  
Injection Date: 05-Oct-2018 08:27:28 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4 Worklist Smp#: 31  
Client ID: KTSG-COMP-4 Dil. Factor: 1.8800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

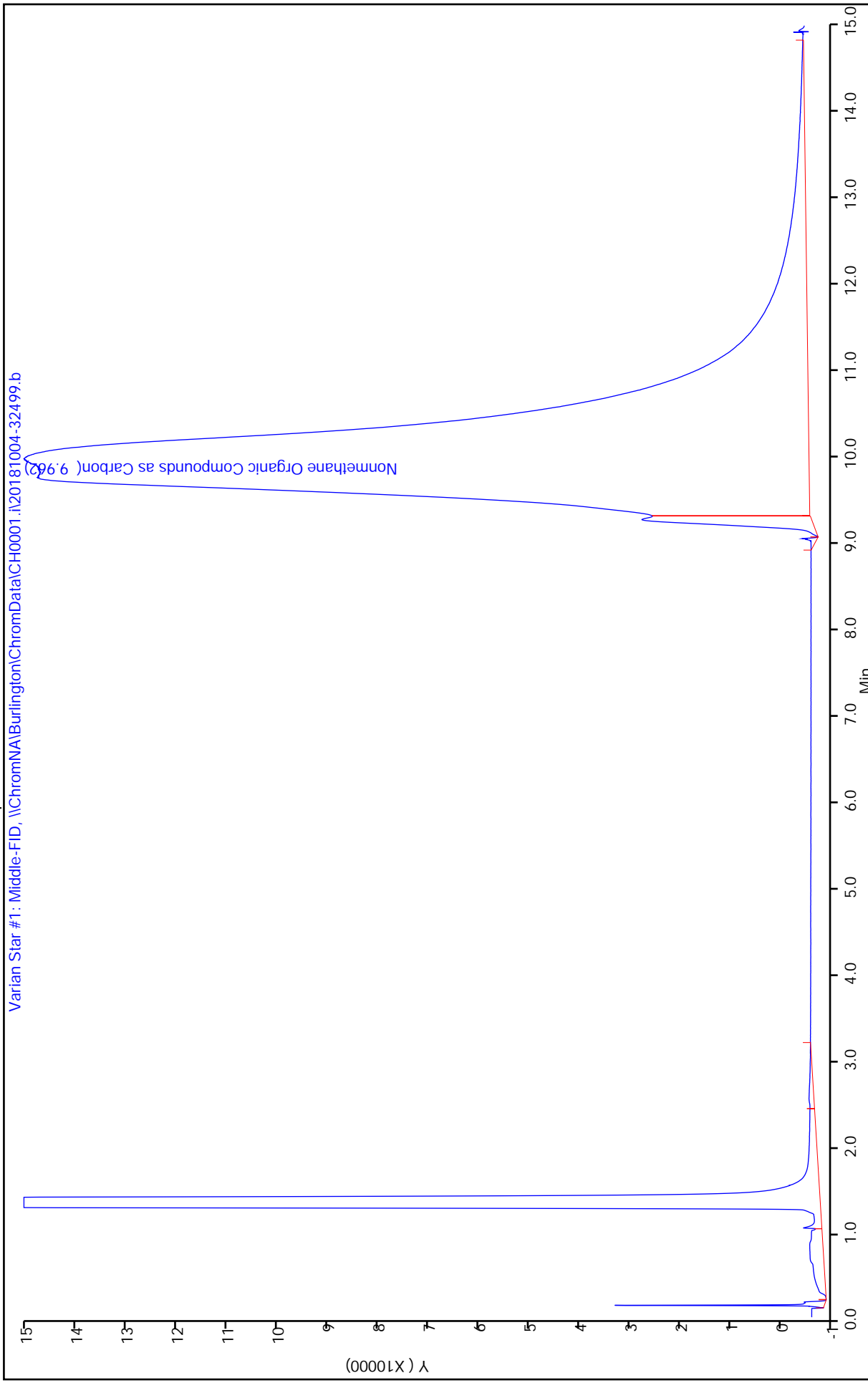
Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4c.d  
Injection Date: 05-Oct-2018 08:43:33 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4 Worklist Smp#: 32  
Client ID: KTSG-COMP-4 Dil. Factor: 1.8800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i





TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4d.d  
Injection Date: 05-Oct-2018 09:00:16 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4 Worklist Smp#: 33  
Client ID: KTSG-COMP-4 Dil. Factor: 1.8800 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

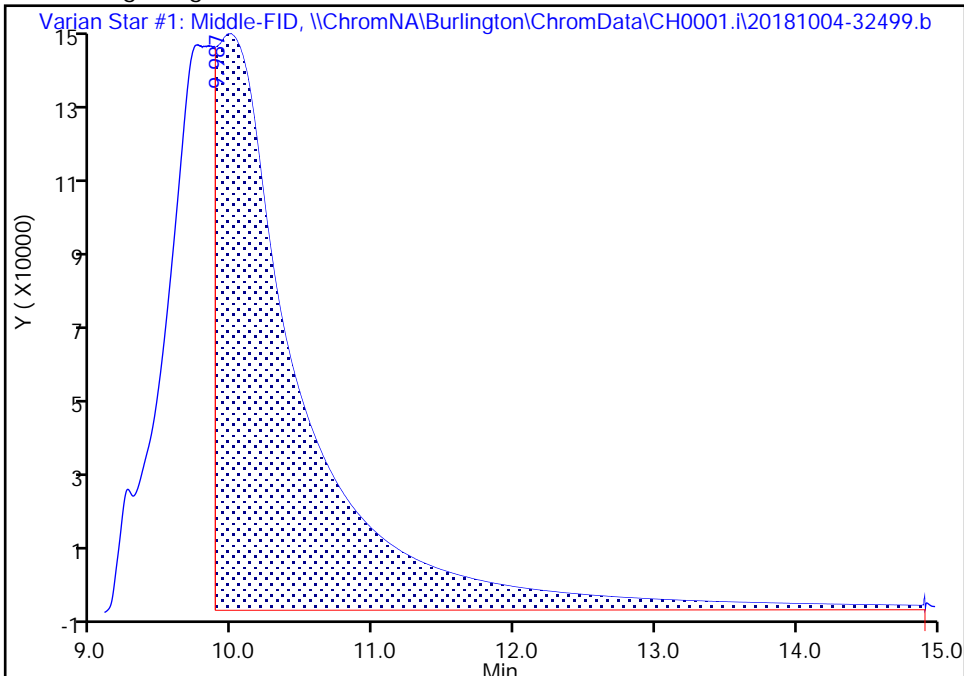
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4b.d  
Injection Date: 05-Oct-2018 08:27:28 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4  
Client ID: KTSG-COMP-4  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 31  
Purge Vol: 2.000 mL Dil. Factor: 1.8800  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

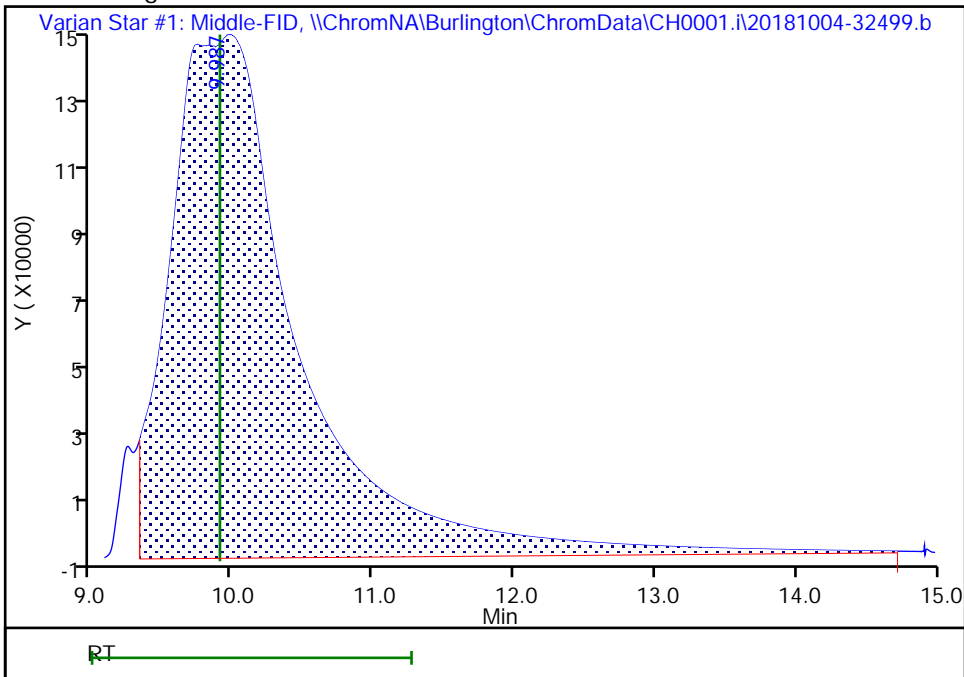
RT: 9.99  
Area: 6217735  
Amount: 345.5261  
Amount Units: ppm-C

Processing Integration Results



RT: 9.99  
Area: 9442431  
Amount: 524.7259  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

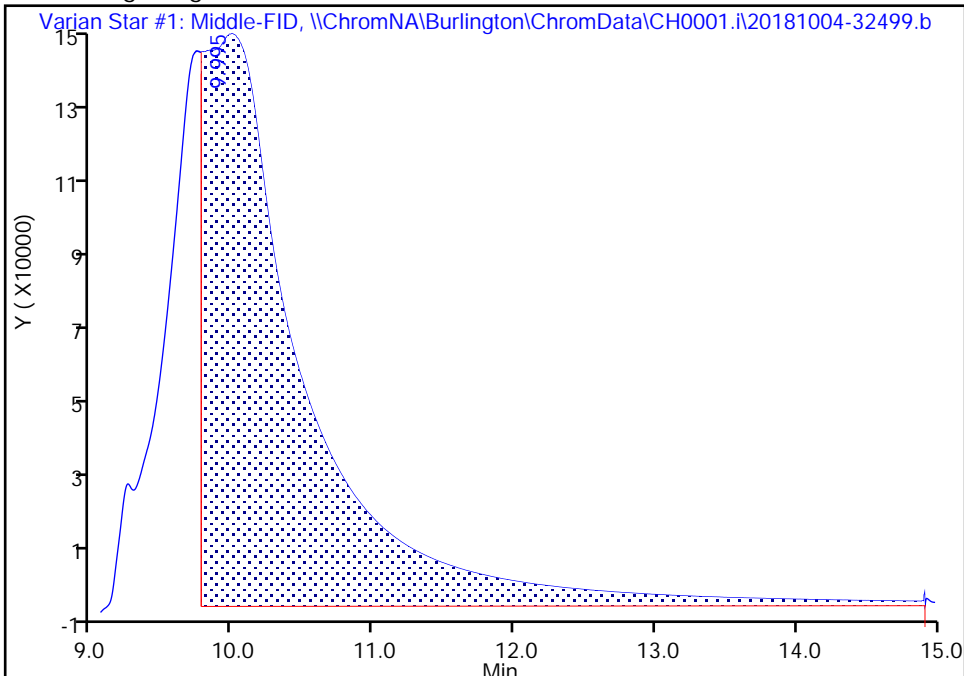
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Injection Date: 05-Oct-2018 08:43:33 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4  
Client ID: KTSG-COMP-4  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 32  
Purge Vol: 2.000 mL Dil. Factor: 1.8800  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

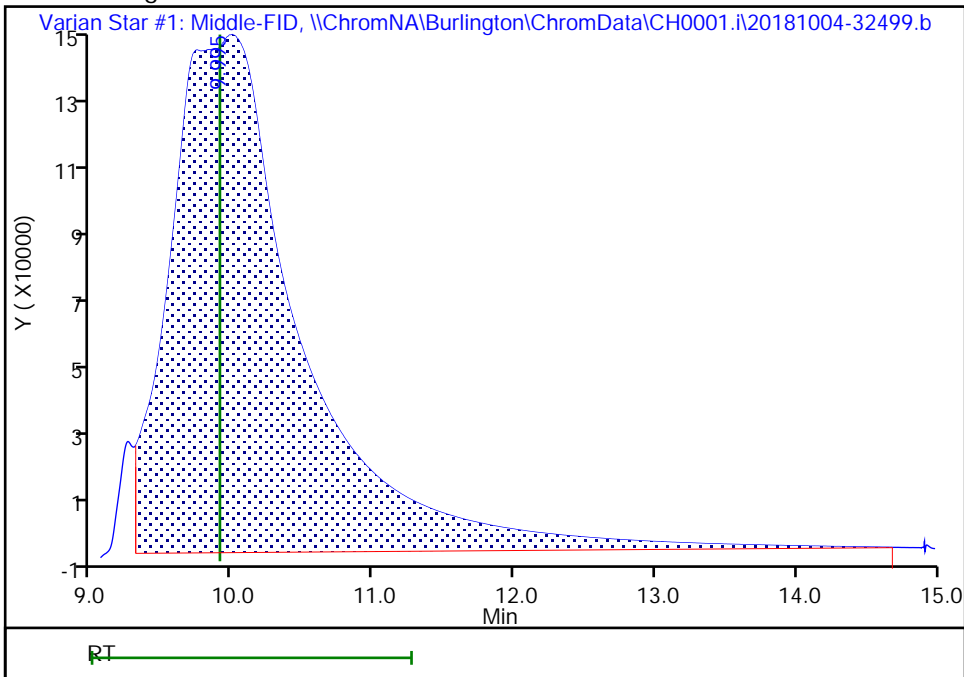
RT: 10.00  
Area: 7269507  
Amount: 403.9742  
Amount Units: ppm-C

Processing Integration Results



RT: 10.00  
Area: 9454032  
Amount: 525.3706  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:42:18  
Audit Action: Manually Integrated

TestAmerica Burlington

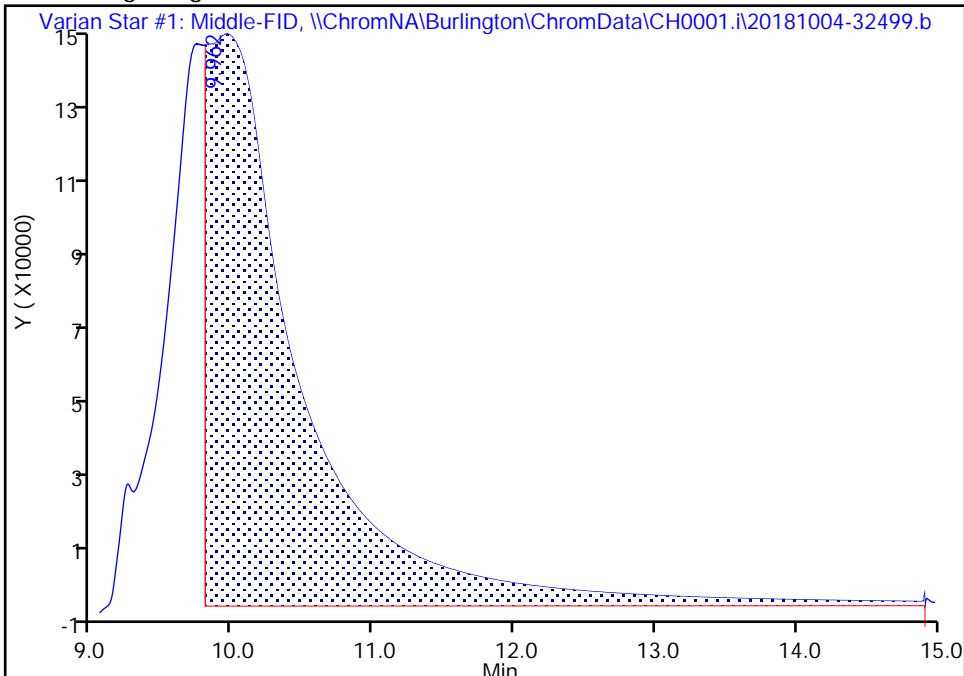
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-4d.d  
Injection Date: 05-Oct-2018 09:00:16 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-4 Lab Sample ID: 200-45482-4  
Client ID: KTSG-COMP-4  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 33  
Purge Vol: 2.000 mL Dil. Factor: 1.8800  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

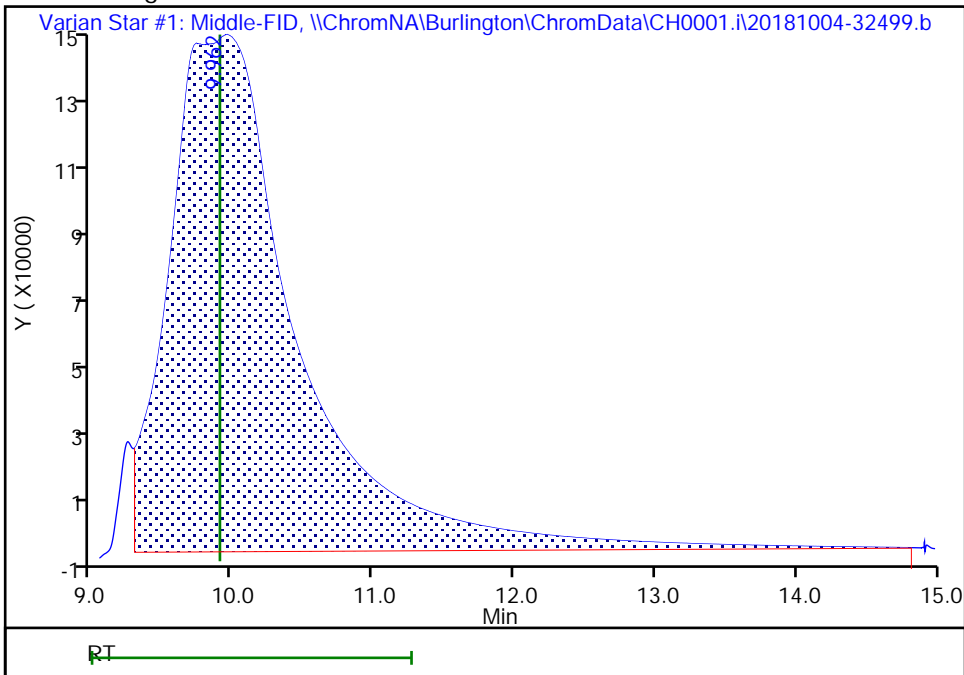
RT: 9.96  
Area: 6882870  
Amount: 382.4884  
Amount Units: ppm-C

Processing Integration Results



RT: 9.96  
Area: 9382117  
Amount: 521.3742  
Amount Units: ppm-C

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-5</u>	Lab Sample ID: <u>200-45482-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-5b.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/25/2018 11:08</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/05/2018 09:32</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.89</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135207</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1800		11	11
STL02483	NMOC as Carbon - N2 Corrected	2100		11	11
STL02482	NMOC as Carbon - O2 Corrected	1900		11	11

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5b.d  
 Lims ID: 200-45482-A-5  
 Client ID: KTSG-COMP-5  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 09:32:30 ALS Bottle#: 0 Worklist Smp#: 34  
 Purge Vol: 2.000 mL Dil. Factor: 1.8900  
 Sample Info: 200-45482-A-5a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:43:10

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.938	9.908	0.030	16562890	920.4	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5c.d  
 Lims ID: 200-45482-A-5  
 Client ID: KTSG-COMP-5  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 09:48:34 ALS Bottle#: 0 Worklist Smp#: 35  
 Purge Vol: 2.000 mL Dil. Factor: 1.8900  
 Sample Info: 200-45482-A-5b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:43:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.943	9.908	0.035	16937236	941.2	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5d.d  
 Lims ID: 200-45482-A-5  
 Client ID: KTSG-COMP-5  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 10:04:50 ALS Bottle#: 0 Worklist Smp#: 36  
 Purge Vol: 2.000 mL Dil. Factor: 1.8900  
 Sample Info: 200-45482-A-5c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:43:44

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.942	9.908	0.034	17128006	951.8	M

**QC Flag Legend**

Review Flags

M - Manually Integrated



Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-5b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-5c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-5d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

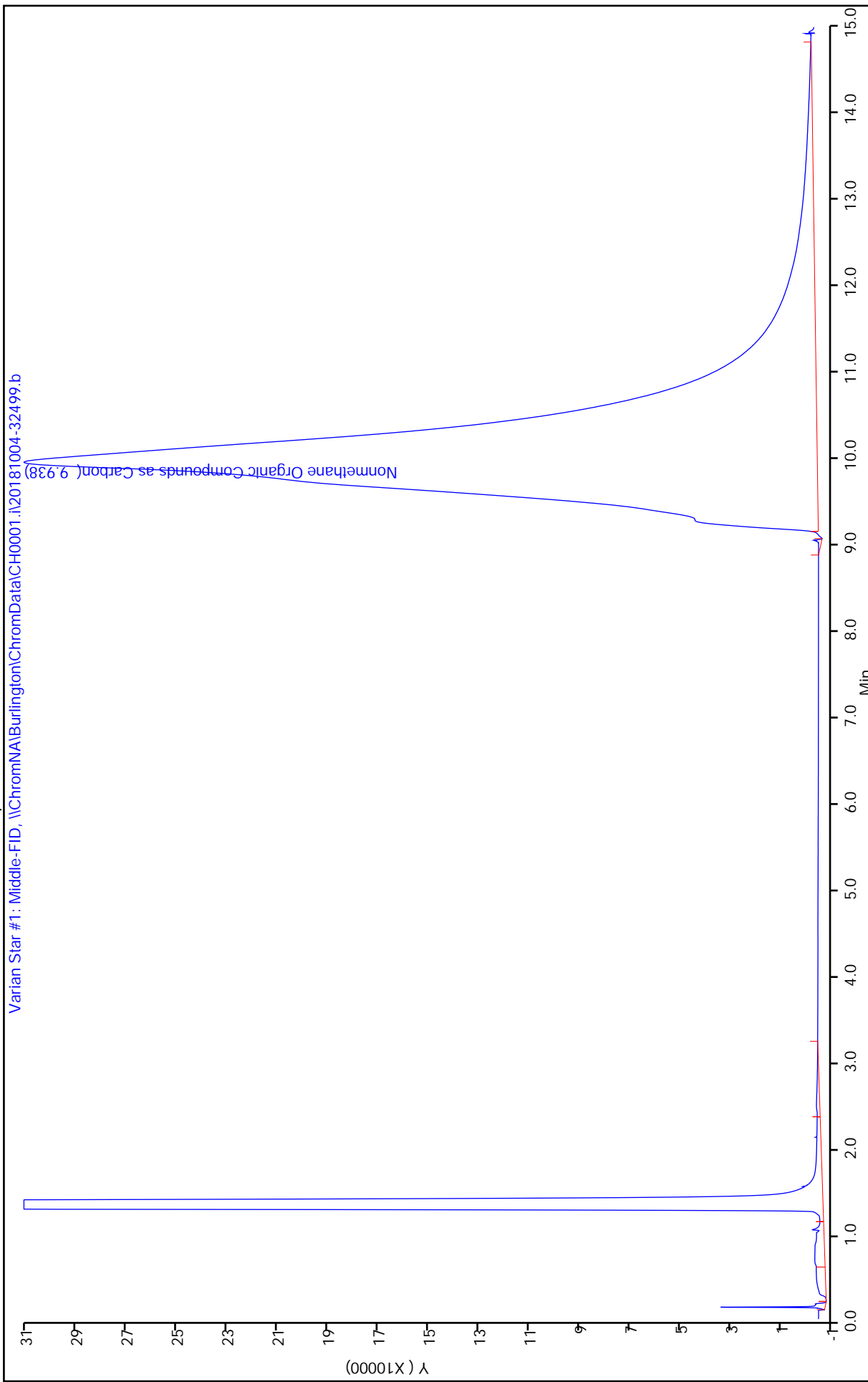
Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	16562890	16937236	17128006	16876044	1.86

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	920.42	941.22	951.82	937.82	1.86

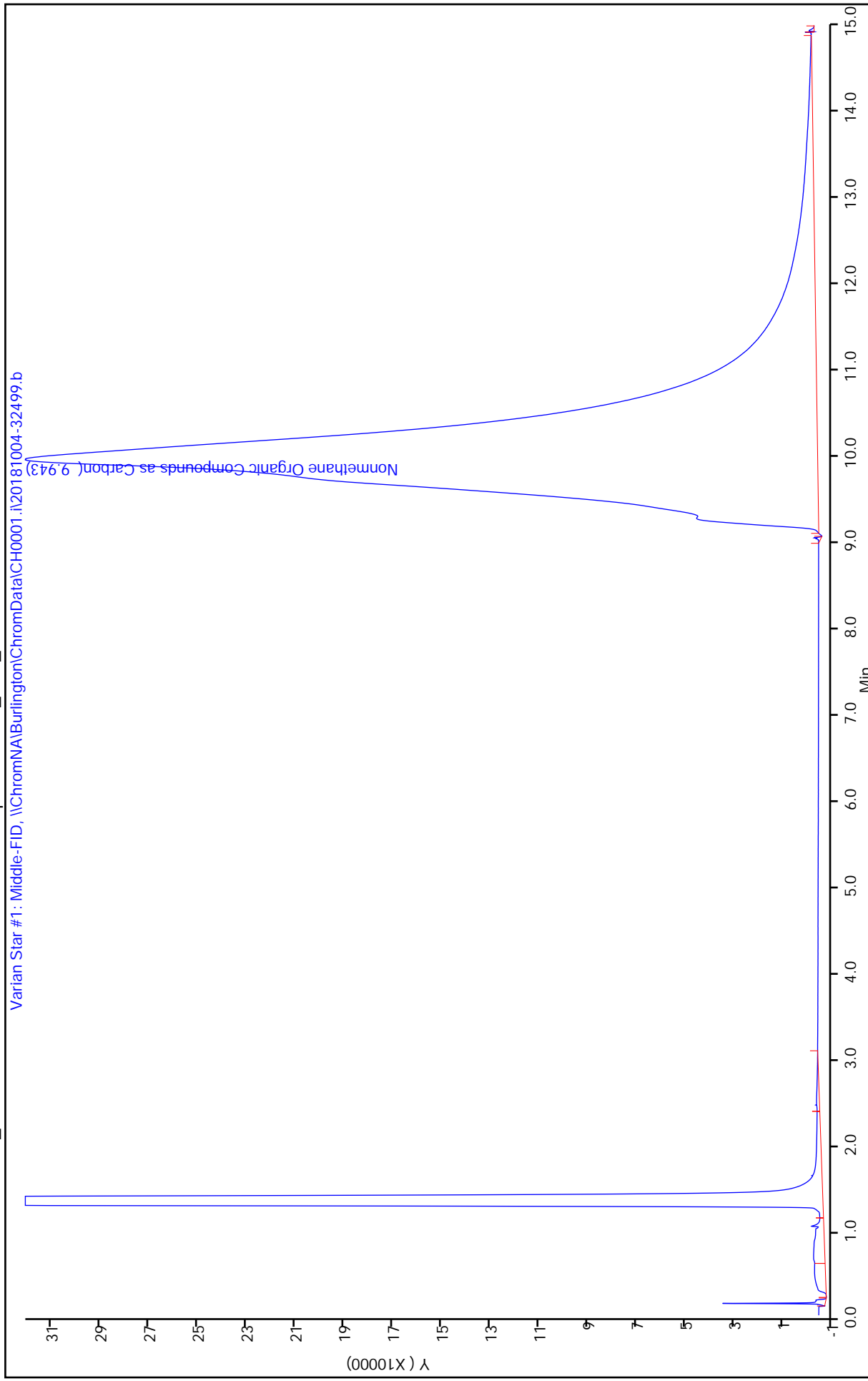
TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5b.d  
Injection Date: 05-Oct-2018 09:32:30 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5 Worklist Smp#: 34  
Client ID: KTSG-COMP-5 Dil. Factor: 1.8900 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5c.d  
Injection Date: 05-Oct-2018 09:48:34 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5 Worklist Smp#: 35  
Client ID: KTSG-COMP-5 Dil. Factor: 1.8900 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i

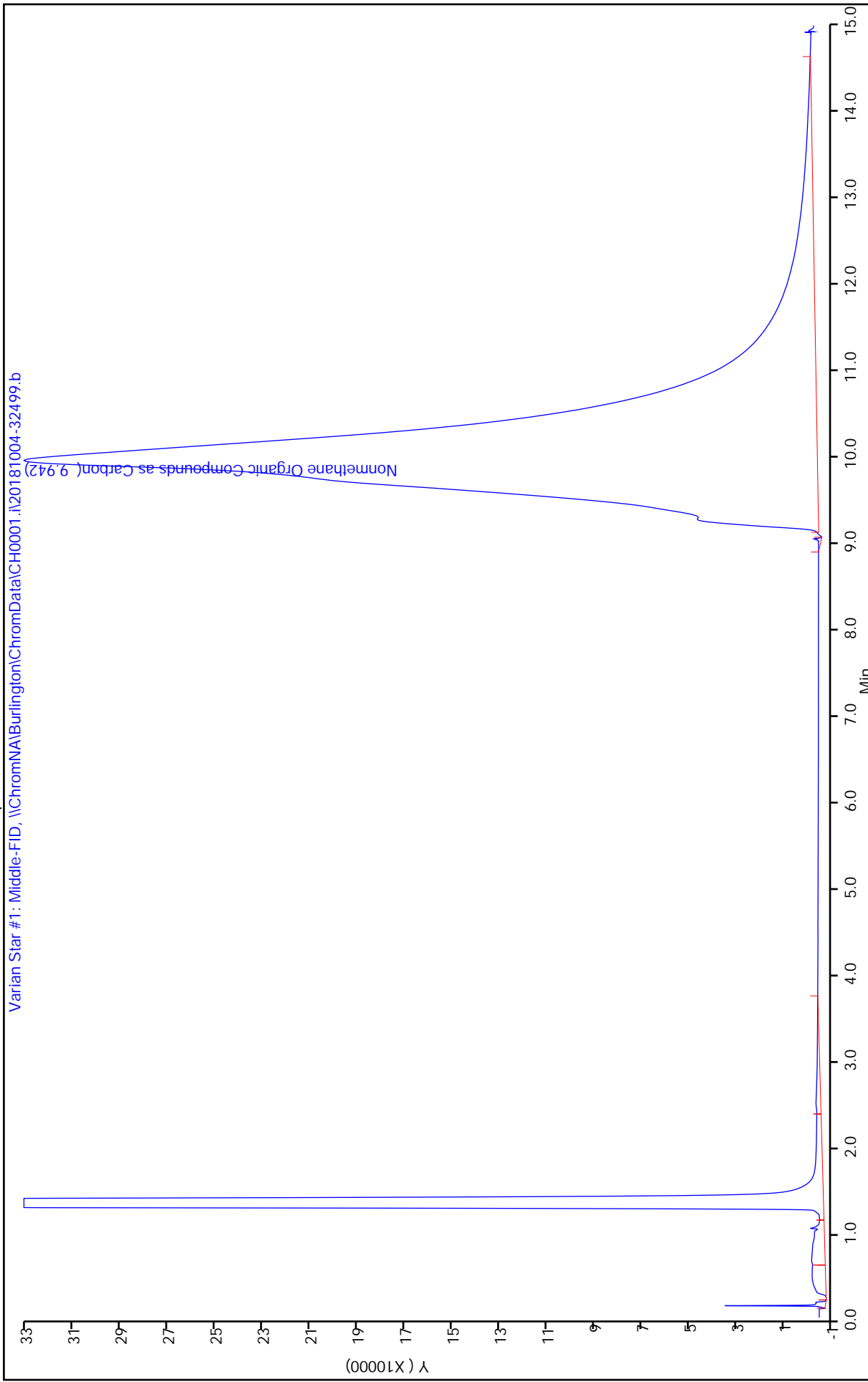


TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5d.d  
Injection Date: 05-Oct-2018 10:04:50  
Lims ID: 200-45482-A-5  
Client ID: KTSG-COMP-5  
Purge Vol: 2.000 mL  
Method: EPA25C\_0001.i

Operator ID: WRD  
Worklist Smp#: 36  
ALS Bottle#: 0

Dil. Factor: 1.8900  
Limit Group: AI\_25C\_Limits



TestAmerica Burlington

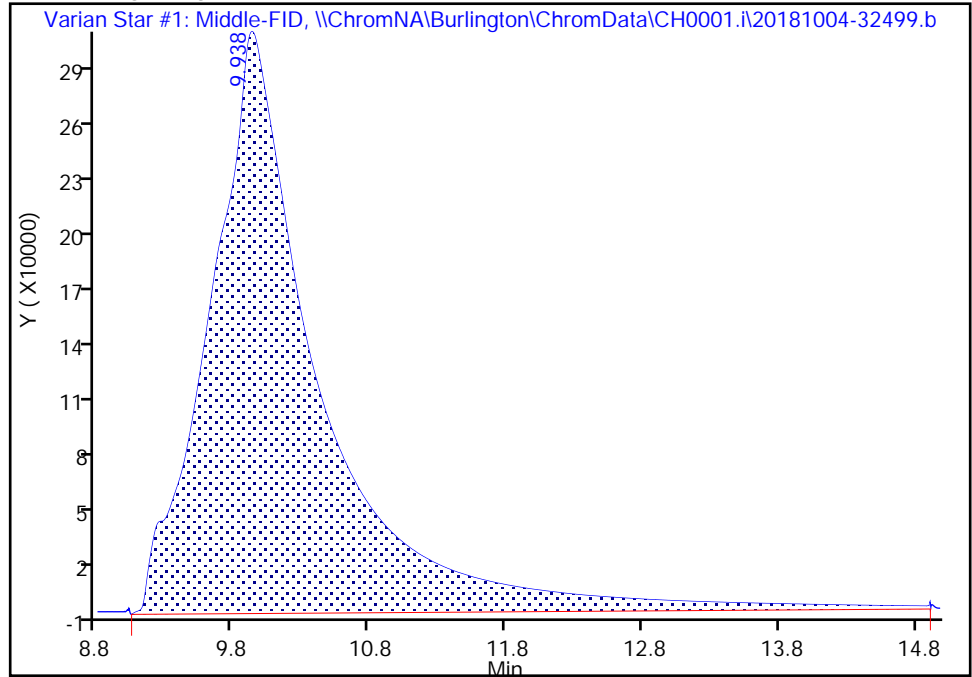
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5b.d  
Injection Date: 05-Oct-2018 09:32:30 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5  
Client ID: KTSG-COMP-5  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 34  
Purge Vol: 2.000 mL Dil. Factor: 1.8900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

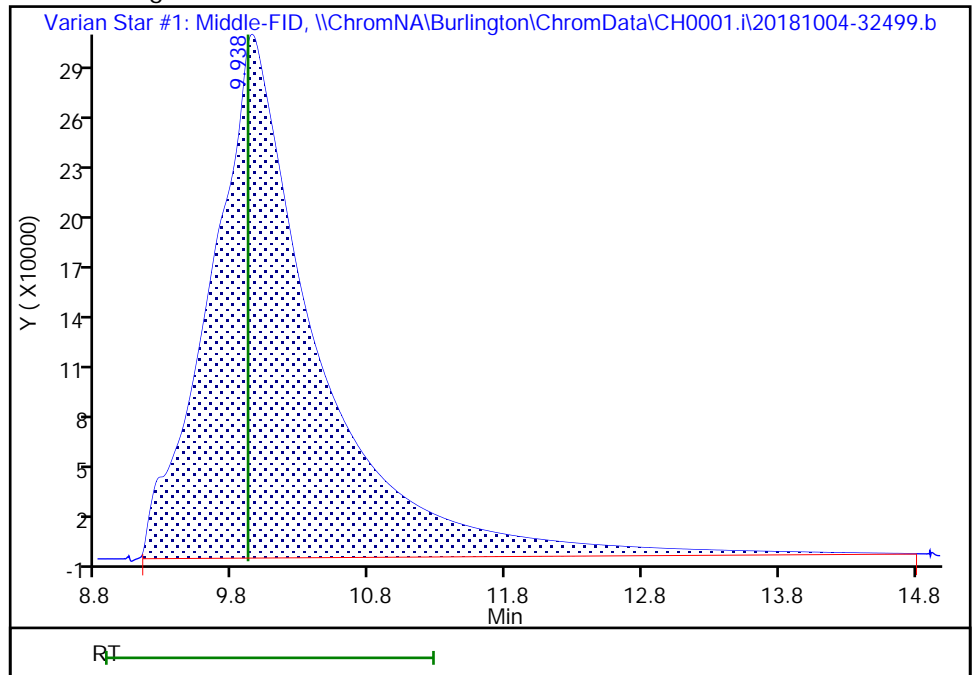
RT: 9.94  
Area: 17059409  
Amount: 948.0095  
Amount Units: ppm-C

Processing Integration Results



RT: 9.94  
Area: 16562890  
Amount: 920.4174  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:43:07  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

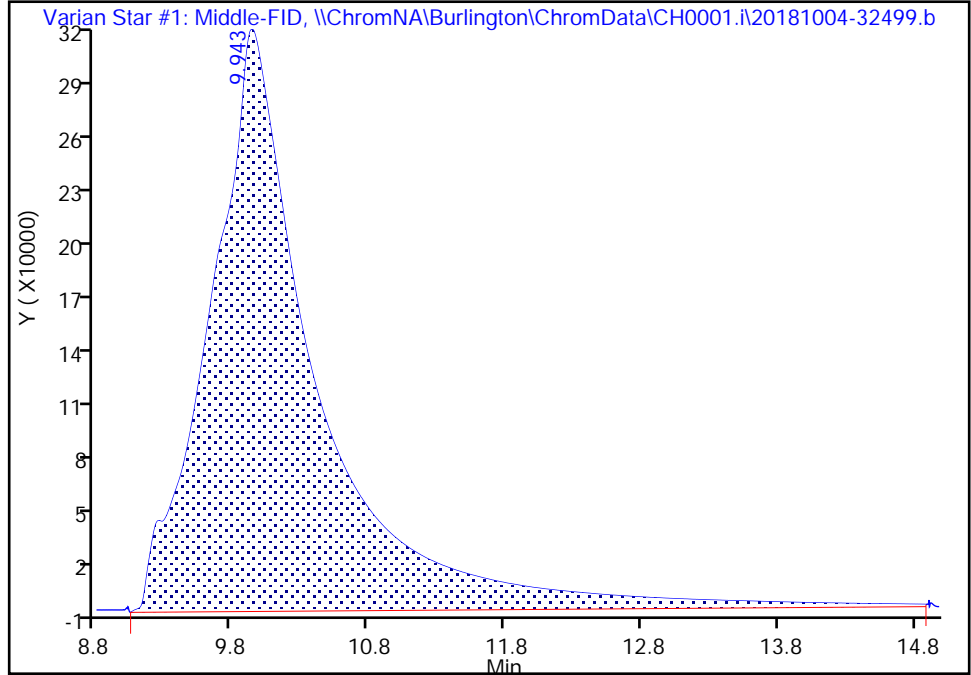
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5c.d  
Injection Date: 05-Oct-2018 09:48:34 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5  
Client ID: KTSG-COMP-5  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 35  
Purge Vol: 2.000 mL Dil. Factor: 1.8900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

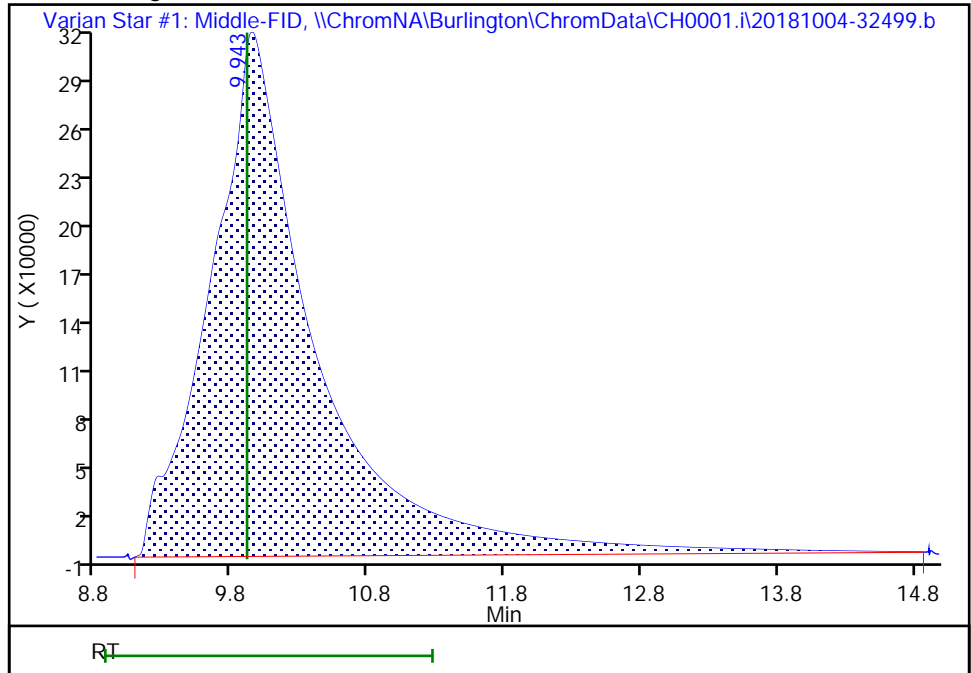
RT: 9.94  
Area: 17342474  
Amount: 963.7397  
Amount Units: ppm-C

Processing Integration Results



RT: 9.94  
Area: 16937236  
Amount: 941.2202  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:43:23  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

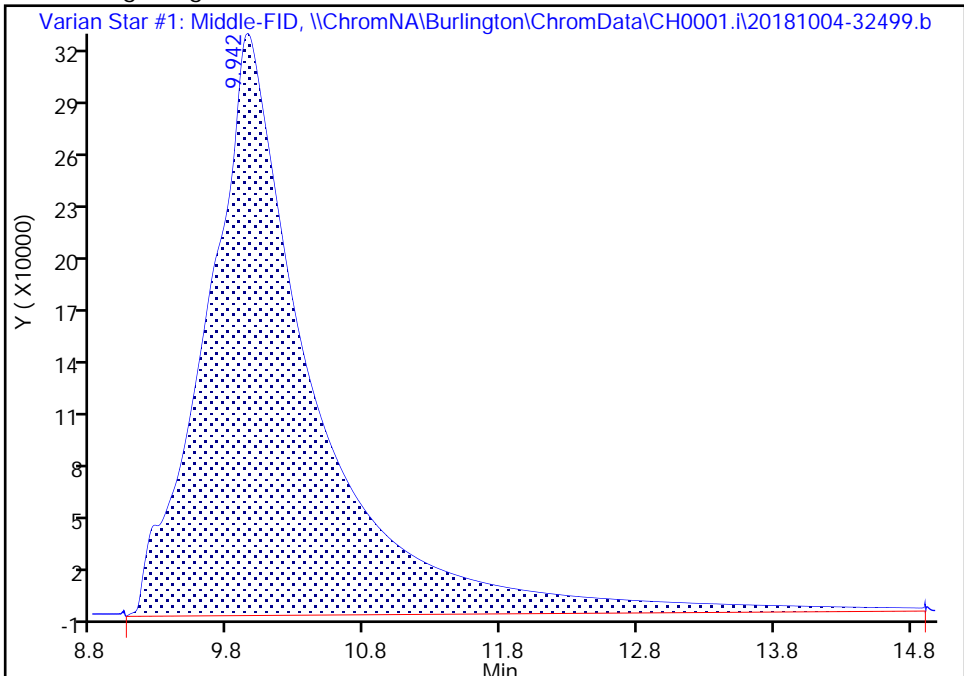
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-5d.d  
Injection Date: 05-Oct-2018 10:04:50 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-5 Lab Sample ID: 200-45482-5  
Client ID: KTSG-COMP-5  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 2.000 mL Dil. Factor: 1.8900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

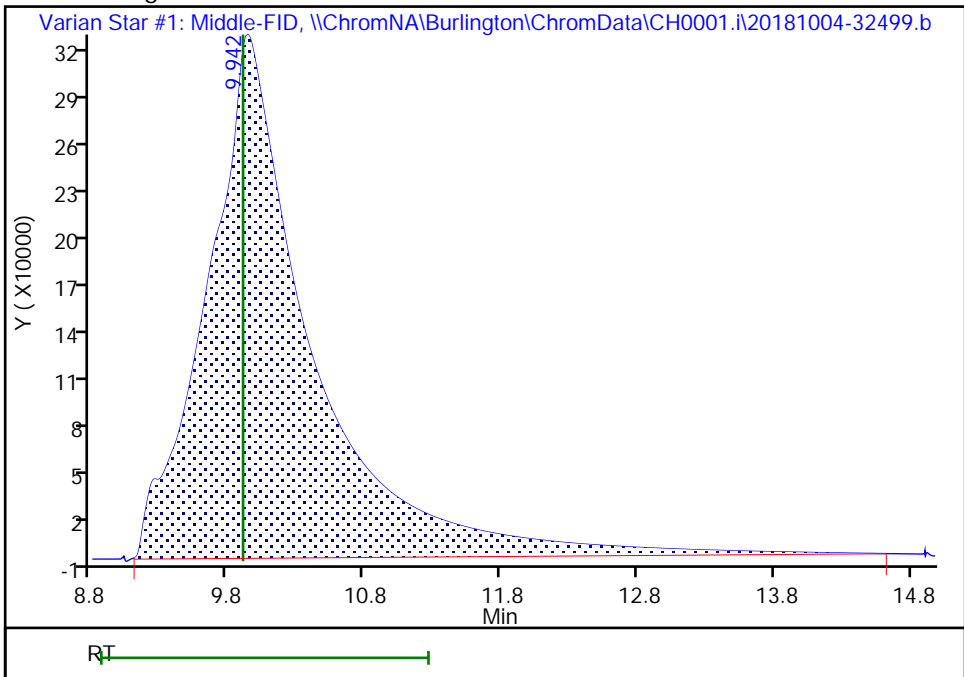
RT: 9.94  
Area: 17661345  
Amount: 981.4597  
Amount Units: ppm-C

Processing Integration Results



RT: 9.94  
Area: 17128006  
Amount: 951.8215  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:43:41  
Audit Action: Manually Integrated

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: KTSG-COMP-6 Lab Sample ID: 200-45482-6  
 Matrix: Air Lab File ID: 200-45482-a-6b.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/25/2018 13:55  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/05/2018 10:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1.91  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1300		11	11
STL02483	NMOC as Carbon - N2 Corrected	1400		11	11
STL02482	NMOC as Carbon - O2 Corrected	1300		11	11



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-6b.d  
 Lims ID: 200-45482-A-6  
 Client ID: KTSG-COMP-6  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 10:37:06 ALS Bottle#: 0 Worklist Smp#: 37  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-6a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:43:53

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.838	9.908	-0.070	12122156	673.6	

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-6c.d  
 Lims ID: 200-45482-A-6  
 Client ID: KTSG-COMP-6  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 10:53:18 ALS Bottle#: 0 Worklist Smp#: 38  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-6b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:43:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.845	9.908	-0.063	11960469	664.7	

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-6d.d  
 Lims ID: 200-45482-A-6  
 Client ID: KTSG-COMP-6  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 11:09:21 ALS Bottle#: 0 Worklist Smp#: 39  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-6c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:44:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.843	9.908	-0.065	11859215	659.0	

Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-6b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-6c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-6d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

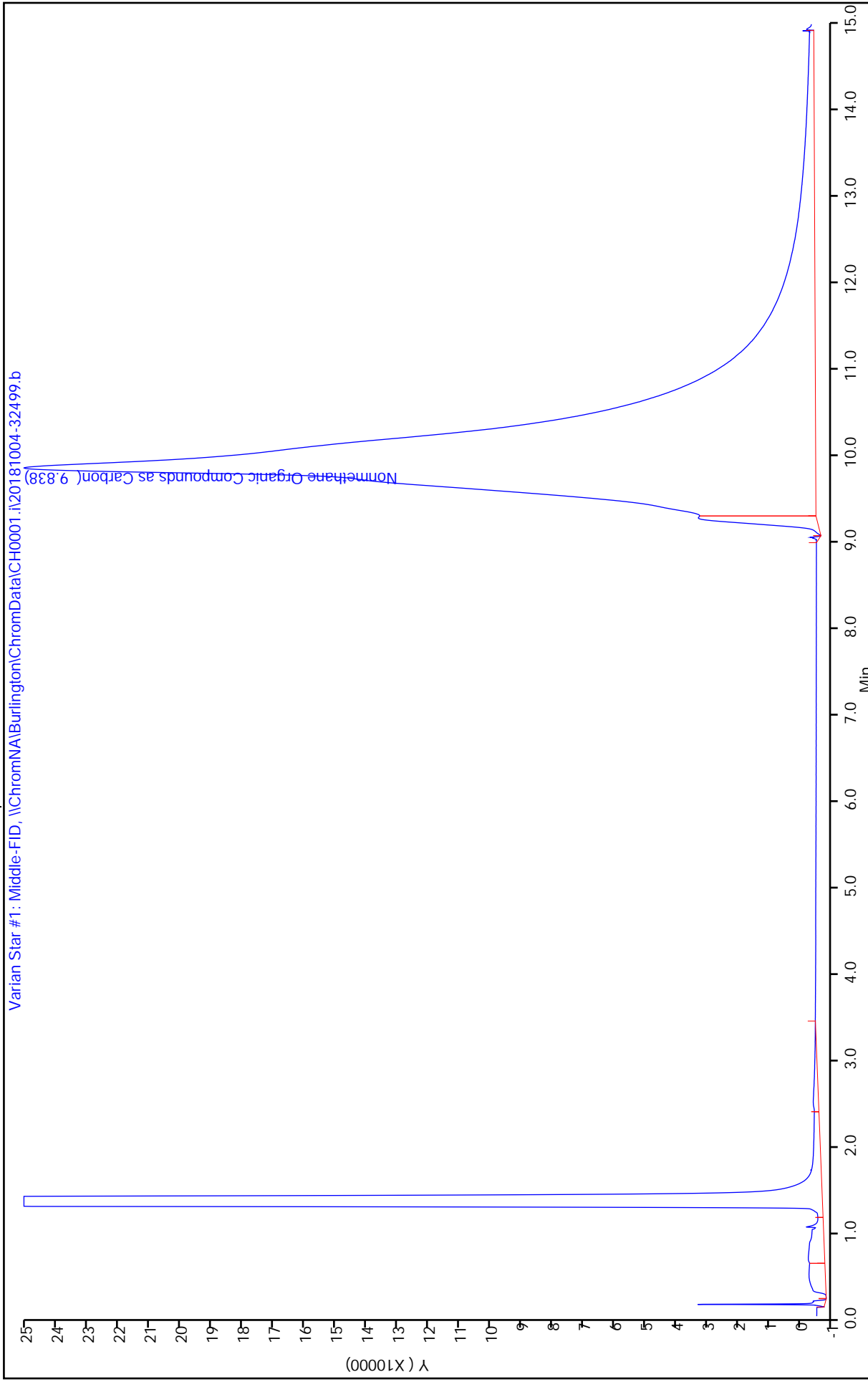
Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12122156	11960469	11859215	11980613.33	1.18

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	673.64	664.66	659.03	665.78	1.18

TestAmerica Burlington

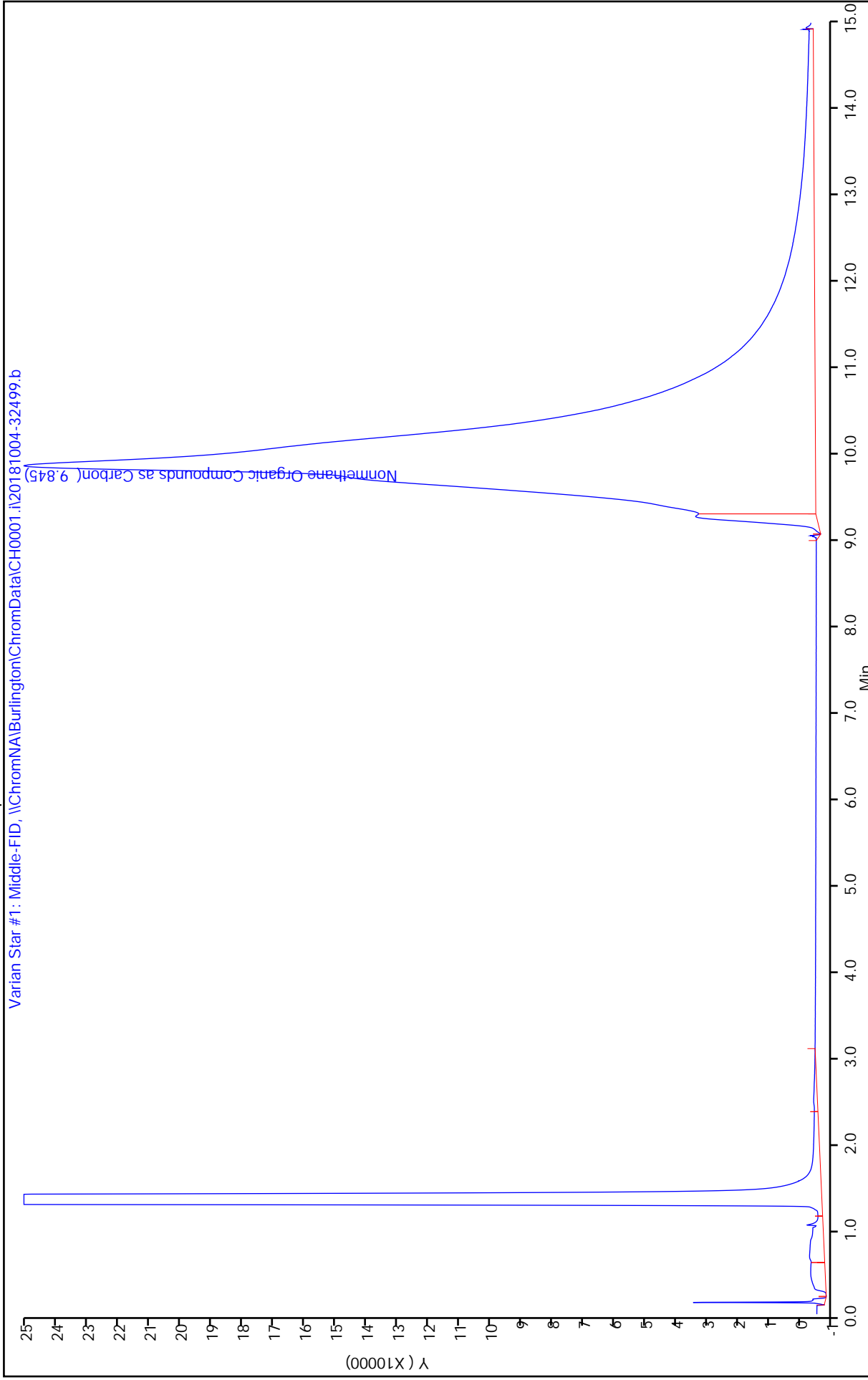
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Injection Date: 05-Oct-2018 10:37:06 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-6 Lab Sample ID: 200-45482-6 Worklist Smp#: 37  
Client ID: KTSG-COMP-6 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

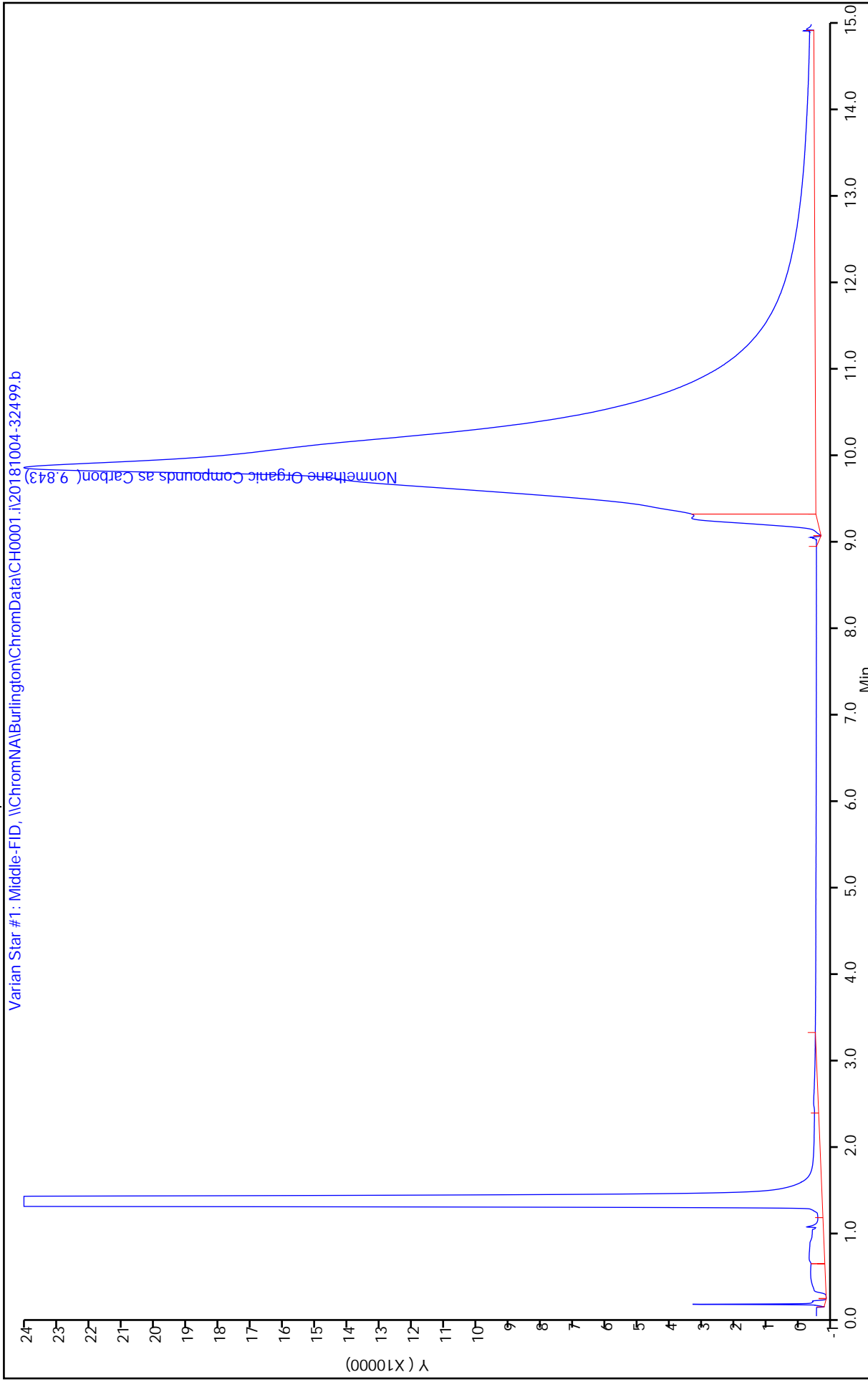
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Injection Date: 05-Oct-2018 10:53:18  
Instrument ID: CH0001.i  
Lims ID: 200-45482-A-6  
Lab Sample ID: 200-45482-6  
Client ID: KTSG-COMP-6  
Purge Vol: 2.000 mL  
Dil. Factor: 1.9100  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

Operator ID: WRD  
Worklist Smp#: 38



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-6d.d  
Injection Date: 05-Oct-2018 11:09:21 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-6 Lab Sample ID: 200-45482-6 Worklist Smp#: 39  
Client ID: KTSG-COMP-6 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45482-1</u>
SDG No.: <u>200-45482-1</u>	
Client Sample ID: <u>KTSG-COMP-7</u>	Lab Sample ID: <u>200-45482-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45482-a-7k.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/25/2018 15:56</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/16/2018 14:21</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.79</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135389</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	4500		29	29
STL02483	NMOC as Carbon - N2 Corrected	4700		29	29
STL02482	NMOC as Carbon - O2 Corrected	4700		29	29



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7k.d  
 Lims ID: 200-45482-A-7  
 Client ID: KTSG-COMP-7  
 Sample Type: Client  
 Inject. Date: 16-Oct-2018 14:21:34 ALS Bottle#: 0 Worklist Smp#: 10  
 Purge Vol: 2.000 mL Dil. Factor: 4.7900  
 Sample Info: 200-45482-A-7k  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb Date: 17-Oct-2018 12:03:13

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.003	9.908	0.095	16300875	905.9	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7l.d  
 Lims ID: 200-45482-A-7  
 Client ID: KTSG-COMP-7  
 Sample Type: Client  
 Inject. Date: 16-Oct-2018 14:37:37 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 2.000 mL Dil. Factor: 4.7900  
 Sample Info: 200-45482-A-7l  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb Date: 17-Oct-2018 12:03:34

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.223	9.908	0.315	17074302	948.8	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7m.d  
 Lims ID: 200-45482-A-7  
 Client ID: KTSG-COMP-7  
 Sample Type: Client  
 Inject. Date: 16-Oct-2018 14:53:40 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 2.000 mL Dil. Factor: 4.7900  
 Sample Info: 200-45482-A-7m  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb Date: 17-Oct-2018 12:03:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.225	9.908	0.317	17138574	952.4	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

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z:\ch0001-2hutch\200-45482-a-7l-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-7m-135302-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	16300875	17074302	17138574	16837917	3.19

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	905.86	948.84	952.41	935.7	3.19

Report Date: 17-Oct-2018 14:23:53

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7k.d

Injection Date: 16-Oct-2018 14:21:34

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-7

Lab Sample ID: 200-45482-7

Worklist Smp#: 10

Client ID: KTSG-COMP-7

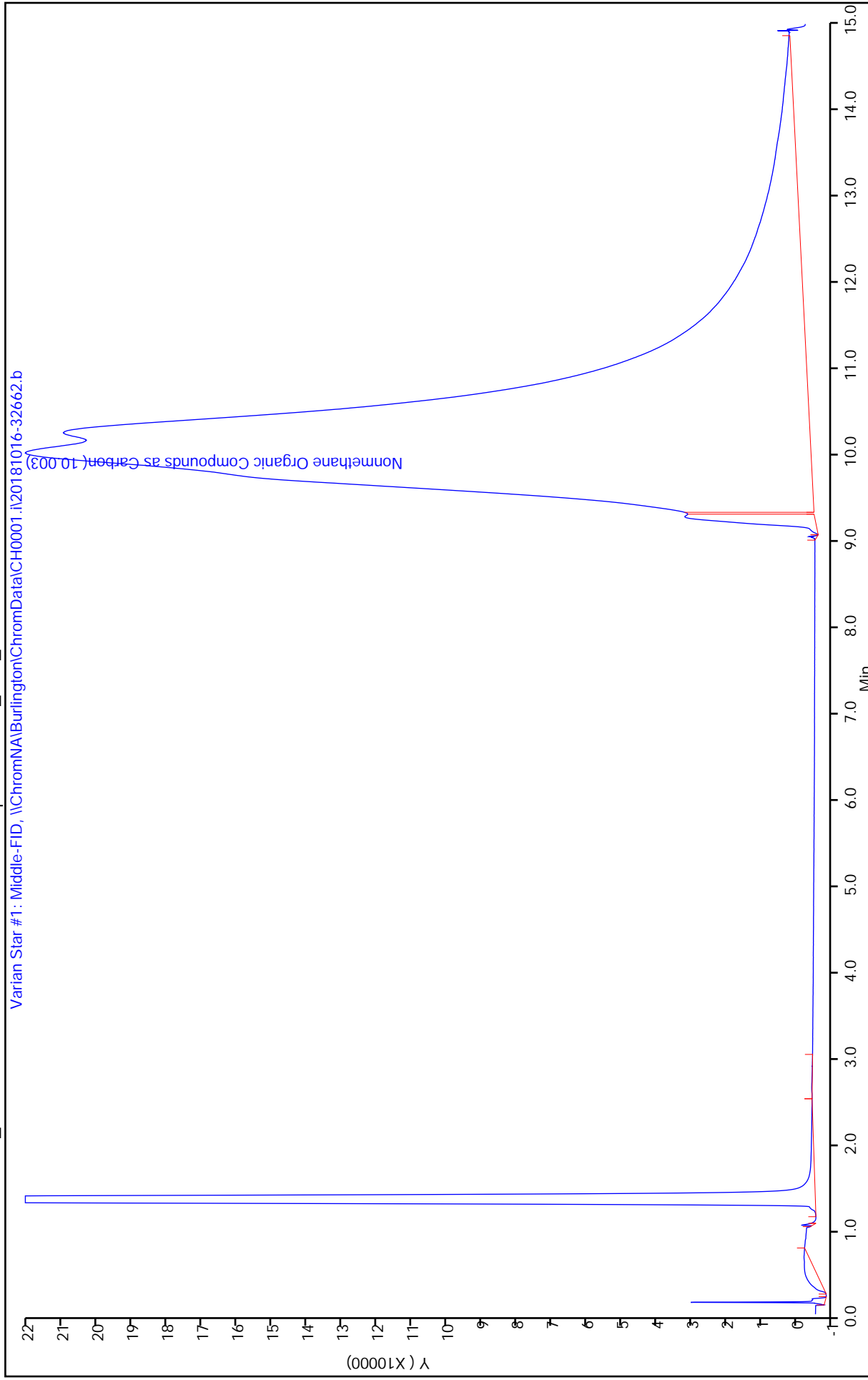
Purge Vol: 2.000 mL

Dil. Factor: 4.7900

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 17-Oct-2018 14:23:55

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7I.d

Injection Date: 16-Oct-2018 14:37:37

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-7

Lab Sample ID: 200-45482-7

Worklist Smp#: 11

Client ID: KTSG-COMP-7

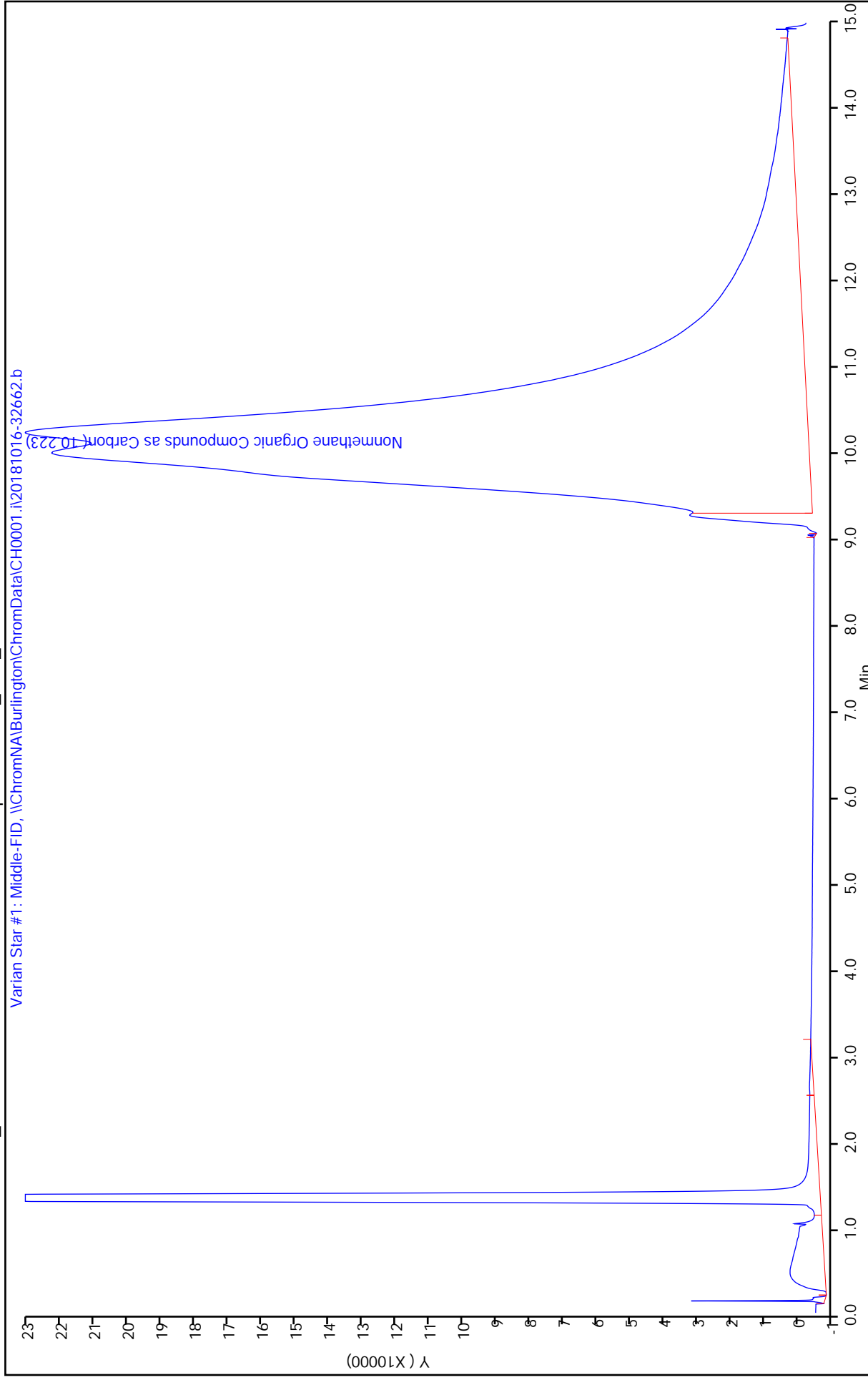
Purge Vol: 2.000 mL

Dil. Factor: 4.7900

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 17-Oct-2018 14:23:56

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7m.d

Injection Date: 16-Oct-2018 14:53:40

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-7

Lab Sample ID: 200-45482-7

Worklist Smp#: 12

Client ID: KTSG-COMP-7

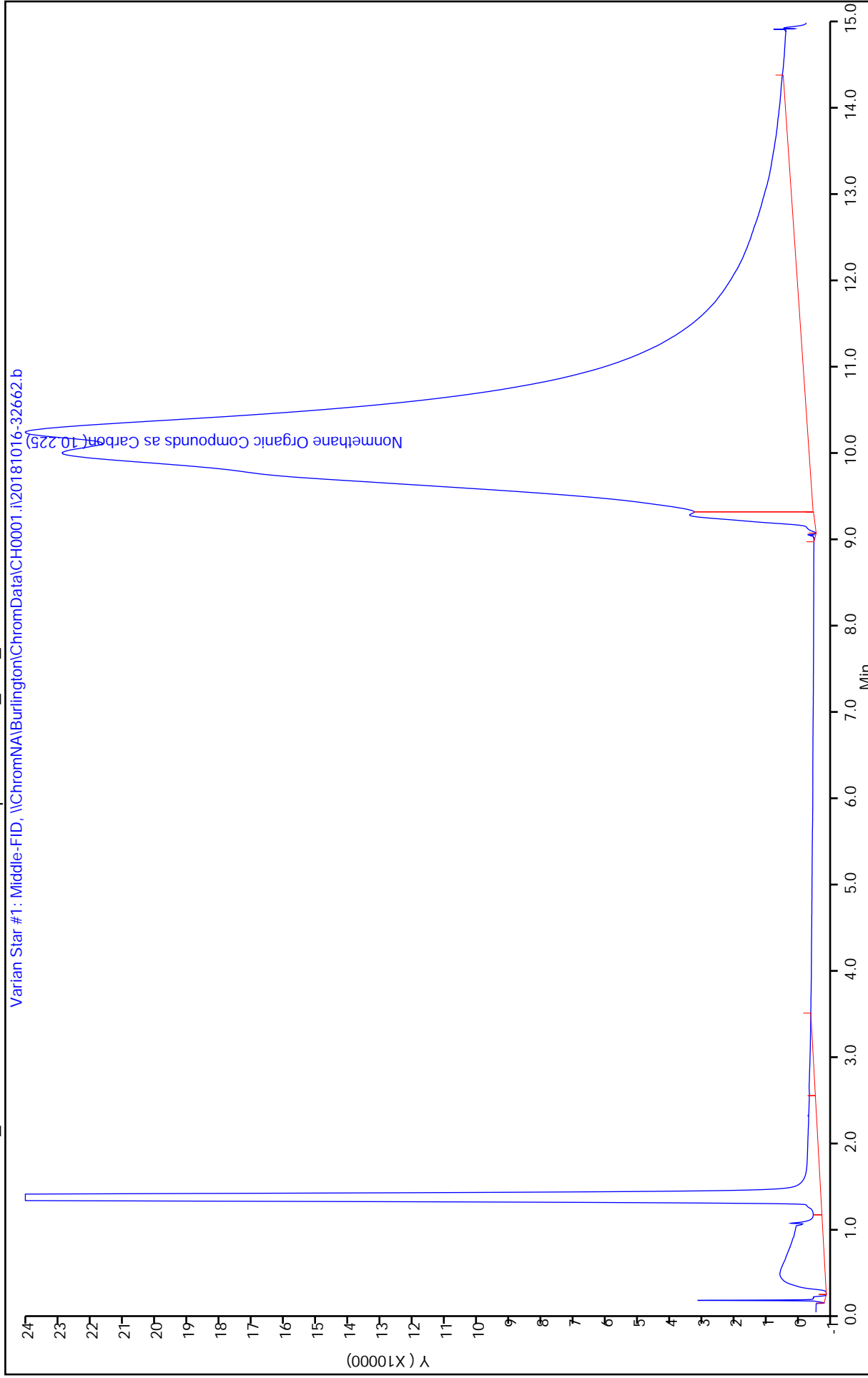
Purge Vol: 2.000 mL

Dil. Factor: 4.7900

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

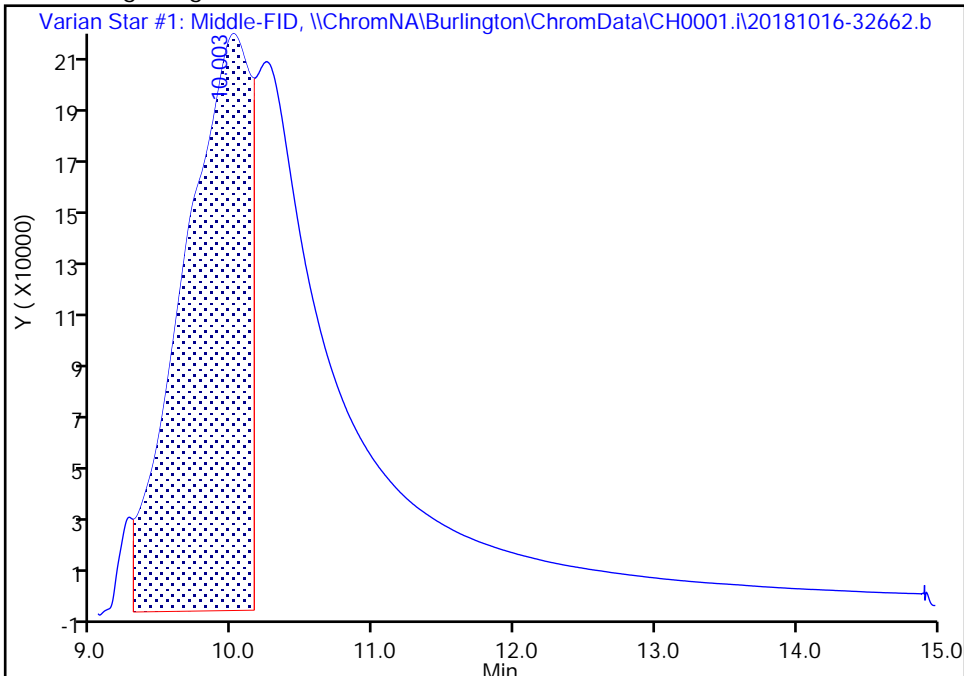
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\200-45482-a-7k.d  
Injection Date: 16-Oct-2018 14:21:34 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7  
Client ID: KTSG-COMP-7  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 10  
Purge Vol: 2.000 mL Dil. Factor: 4.7900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

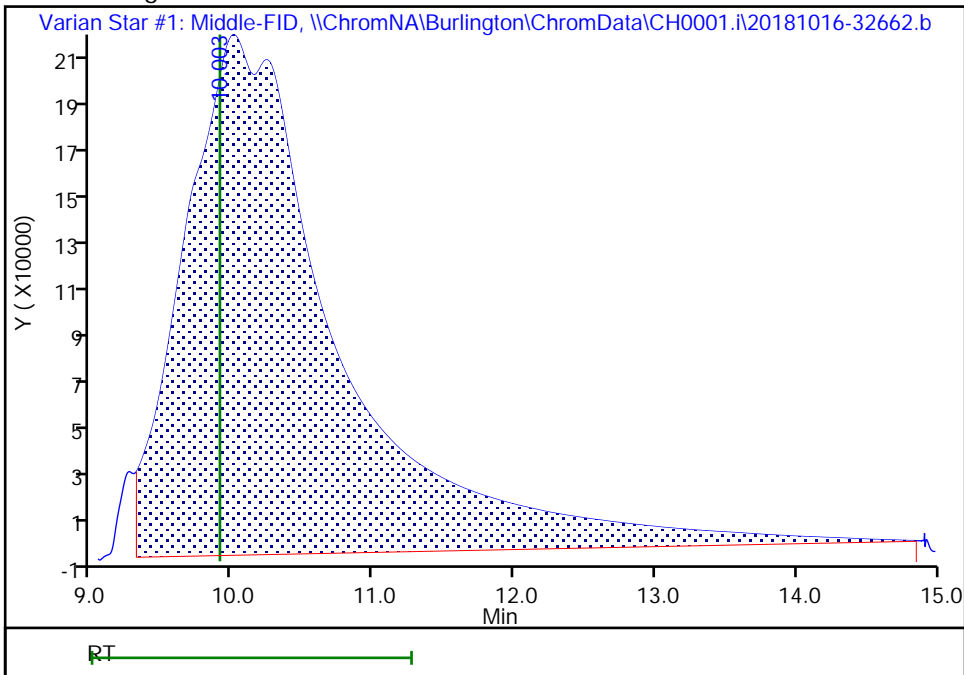
RT: 10.00  
Area: 7024267  
Amount: 390.3460  
Amount Units: ppm-C

Processing Integration Results



RT: 10.00  
Area: 16300875  
Amount: 905.8570  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 17-Oct-2018 12:03:11  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
Page 310 of 565



TestAmerica Burlington

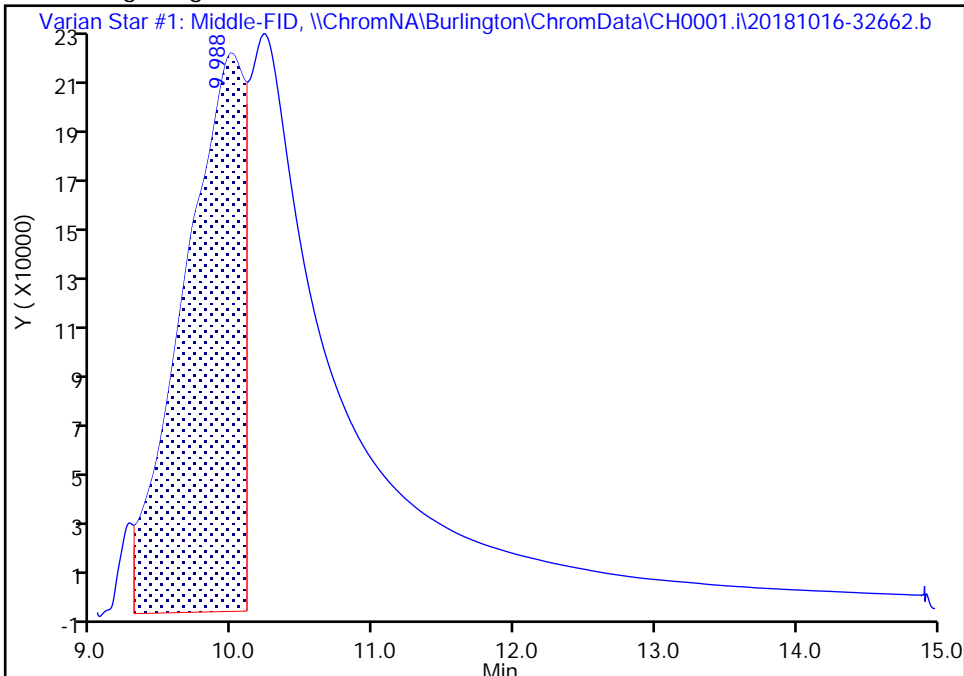
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Injection Date: 16-Oct-2018 14:37:37 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7  
Client ID: KTSG-COMP-7  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 2.000 mL Dil. Factor: 4.7900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

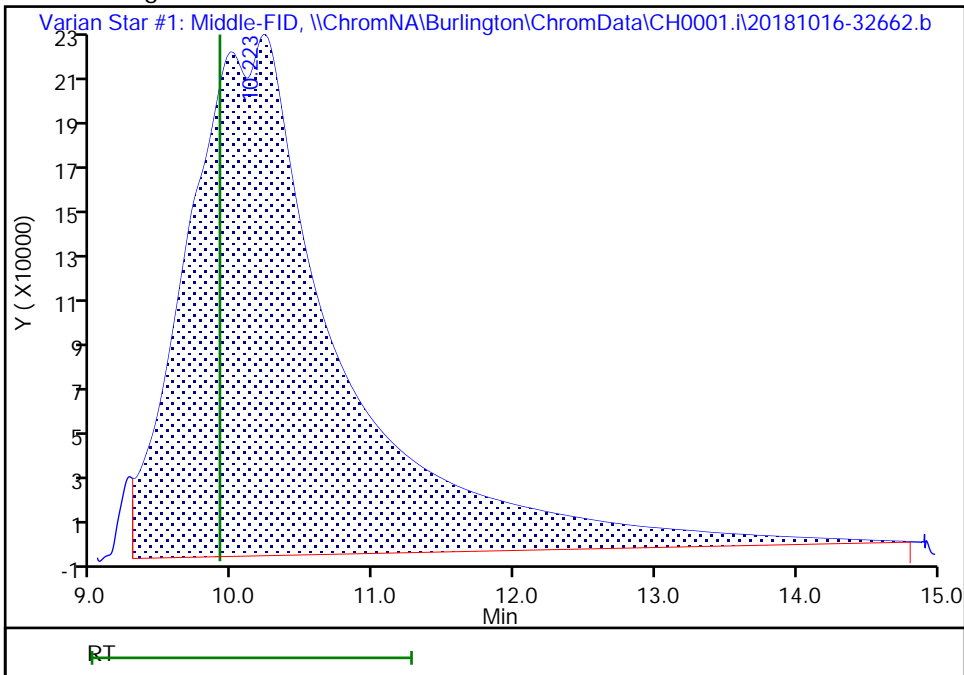
RT: 9.99  
Area: 6513353  
Amount: 361.9540  
Amount Units: ppm-C

Processing Integration Results



RT: 10.22  
Area: 17074302  
Amount: 948.8371  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 17-Oct-2018 12:03:31

Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

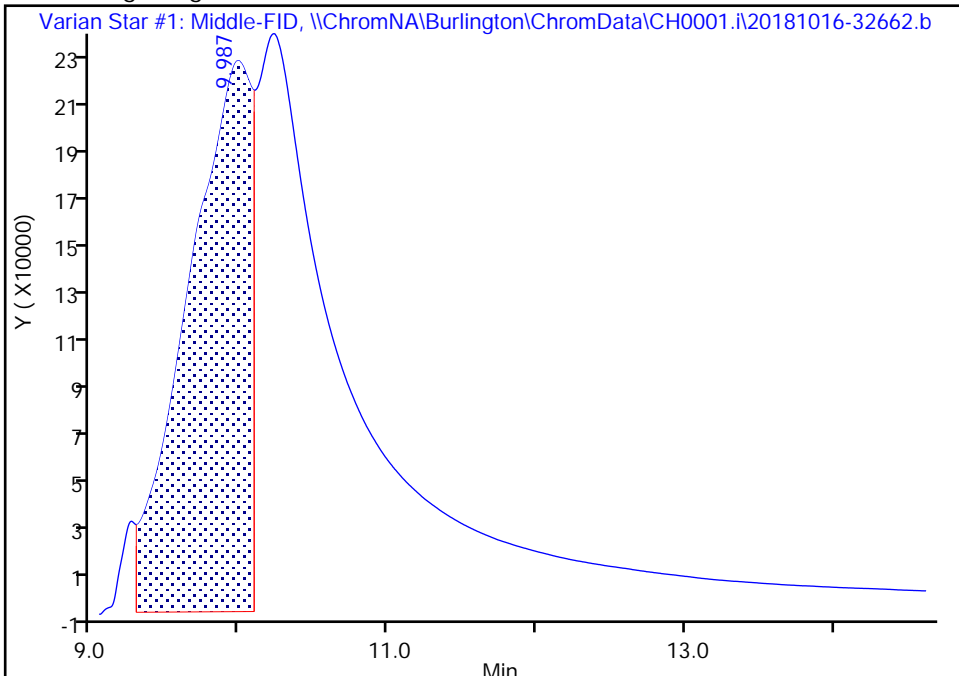
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Injection Date: 16-Oct-2018 14:53:40 Instrument ID: CH0001.i  
Lims ID: 200-45482-A-7 Lab Sample ID: 200-45482-7  
Client ID: KTSG-COMP-7  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 12  
Purge Vol: 2.000 mL Dil. Factor: 4.7900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

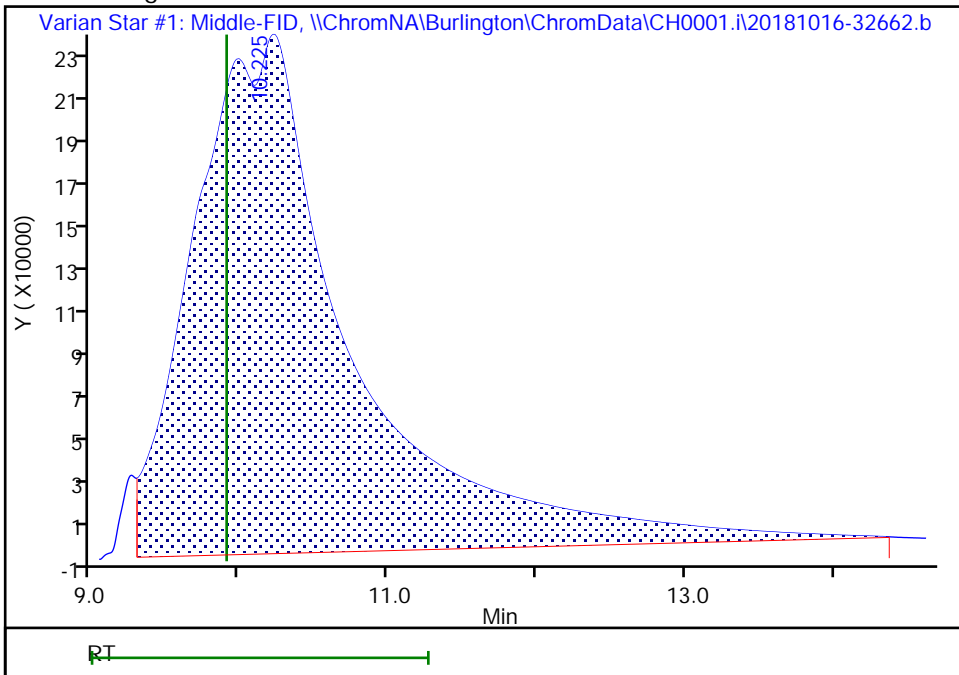
RT: 9.99  
Area: 6559109  
Amount: 364.4967  
Amount Units: ppm-C

Processing Integration Results



RT: 10.23  
Area: 17138574  
Amount: 952.4088  
Amount Units: ppm-C

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: KTSG-COMP-8 Lab Sample ID: 200-45482-8  
 Matrix: Air Lab File ID: 200-45482-a-8b.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/25/2018 17:59  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/05/2018 12:45  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1.91  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1800		11	11
STL02483	NMOC as Carbon - N2 Corrected	1900		11	11
STL02482	NMOC as Carbon - O2 Corrected	1900		11	11

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-8b.d  
 Lims ID: 200-45482-A-8  
 Client ID: KTSG-COMP-8  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 12:45:51 ALS Bottle#: 0 Worklist Smp#: 43  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-8a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.872	9.908	-0.036	17378033	965.7	

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-8c.d  
 Lims ID: 200-45482-A-8  
 Client ID: KTSG-COMP-8  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 13:01:59 ALS Bottle#: 0 Worklist Smp#: 44  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-8b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.868	9.908	-0.040	16712491	928.7	

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-8d.d  
 Lims ID: 200-45482-A-8  
 Client ID: KTSG-COMP-8  
 Sample Type: Client  
 Inject. Date: 05-Oct-2018 13:18:02 ALS Bottle#: 0 Worklist Smp#: 45  
 Purge Vol: 2.000 mL Dil. Factor: 1.9100  
 Sample Info: 200-45482-A-8c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.870	9.908	-0.038	16778265	932.4	

Processing 25C data for files:

z:\ch0001-2hutch\200-45482-a-8b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-8c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45482-a-8d-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	17378033	16712491	16778265	16956263	2.49

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	965.72	928.73	932.39	942.28	2.49

Report Date: 13-Oct-2018 14:47:58

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-8b.d

Injection Date: 05-Oct-2018 12:45:51

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-8

Lab Sample ID: 200-45482-8

Worklist Smp#: 43

Client ID: KTSG-COMP-8

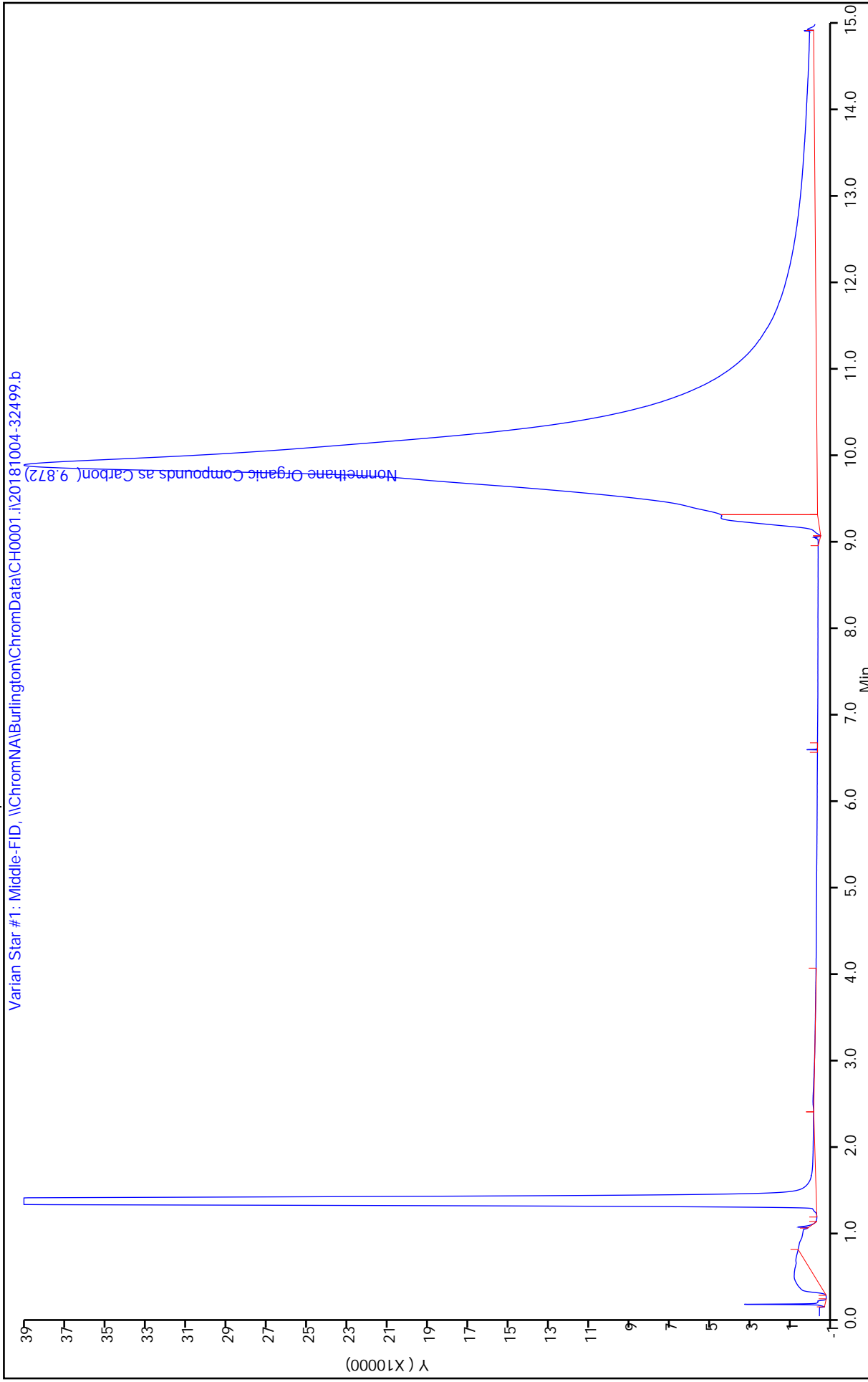
Purge Vol: 2.000 mL

Dil. Factor: 1.9100

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





Report Date: 13-Oct-2018 14:48:00

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-8c.d

Injection Date: 05-Oct-2018 13:01:59

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45482-A-8

Lab Sample ID: 200-45482-8

Worklist Smp#: 44

Client ID: KTSG-COMP-8

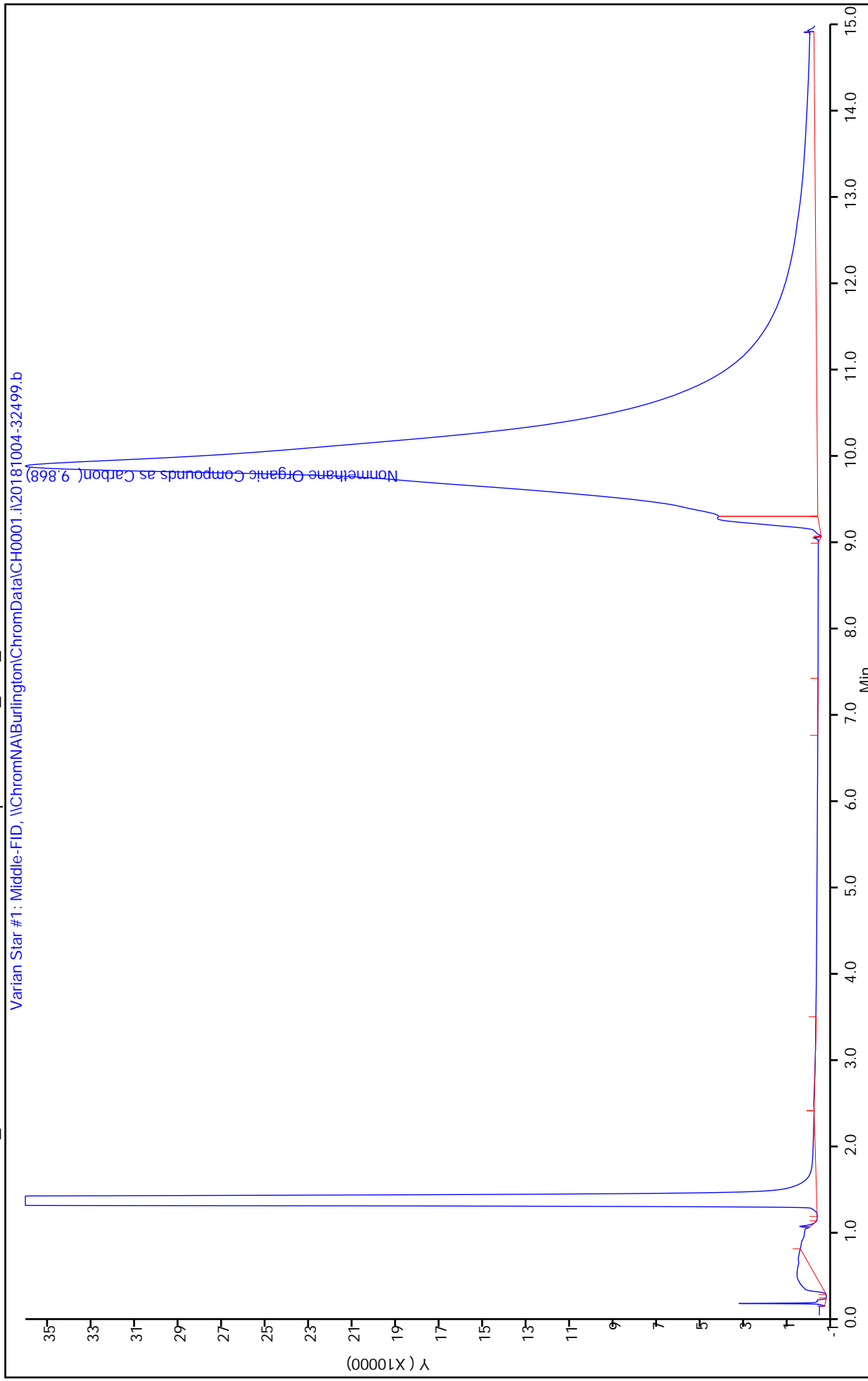
Purge Vol: 2.000 mL

ALS Bottle#: 0

Method: EPA25C\_0001.i

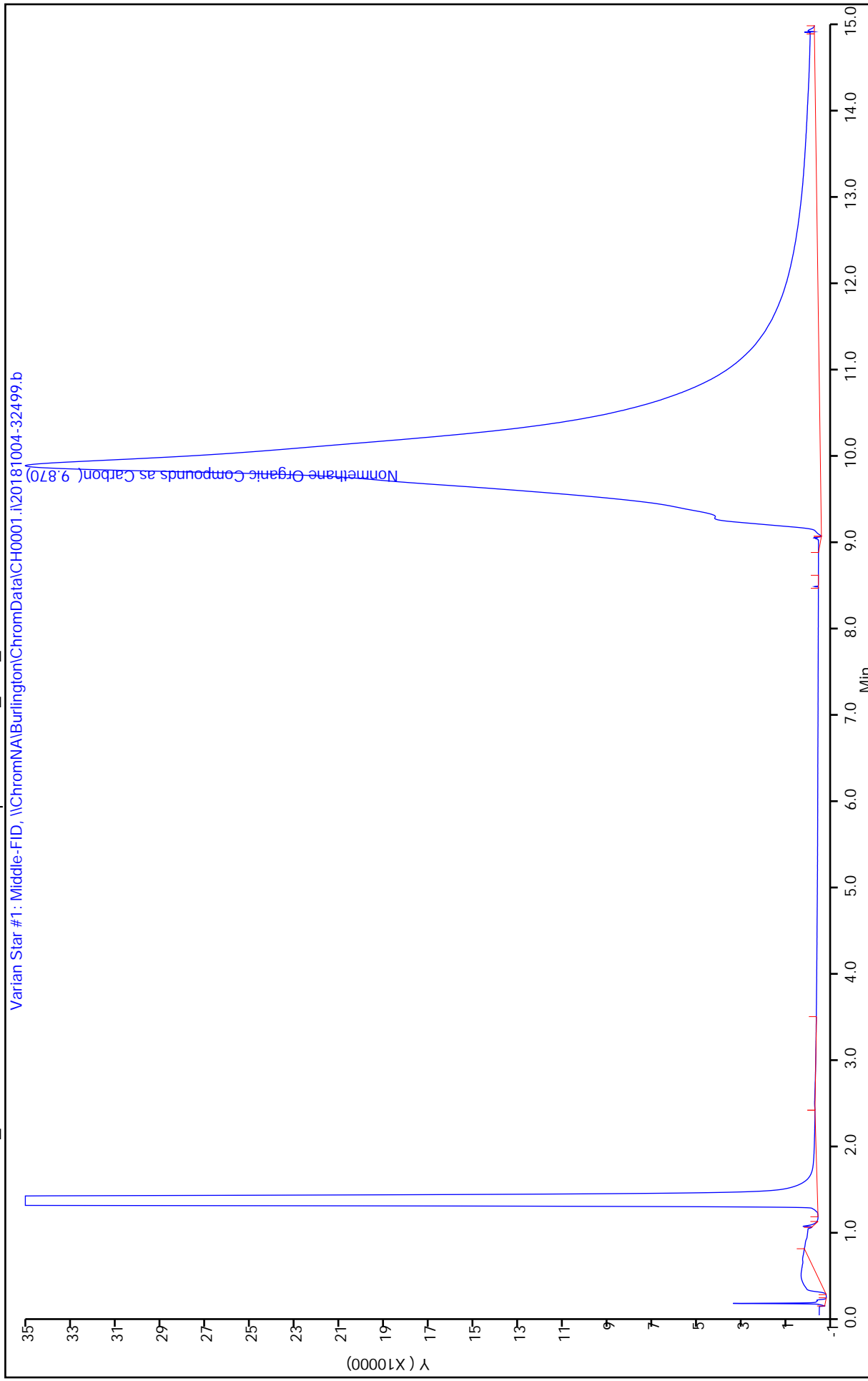
Dil. Factor: 1.9100

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\200-45482-a-8d.d  
Injection Date: 05-Oct-2018 13:18:02 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45482-A-8 Lab Sample ID: 200-45482-8 Worklist Smp#: 45  
Client ID: KTSG-COMP-8 Dil. Factor: 1.9100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45482-1 Analy Batch No.: 83144

SDG No.: 200-45482-1

Instrument ID: CH0001.i GC Column: Carbo/Unibe ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2015 10:26 Calibration End Date: 01/08/2015 12:02 Calibration ID: 29454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-83144/3	25cic1_01082015001.d-avg
Level 2	ICRT 200-83144/1	25cic2_01072015001.d-avg
Level 3	IC 200-83144/2	25cic3_01072015001.d-avg

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
NMOC as Carbon - Uncorrected	9.879	9.885	9.865								8.868 - 11.268	9.876

FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45482-1 Analy Batch No.: 83144

SDG No.: 200-45482-1

Instrument ID: CH0001.i GC Column: Carbo/Unibe ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2015 10:26 Calibration End Date: 01/08/2015 12:02 Calibration ID: 29454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-83144/3	25cic1_01082015001.d-avg
Level 2	ICRT 200-83144/1	25cic2_01072015001.d-avg
Level 3	IC 200-83144/2	25cic3_01072015001.d-avg

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
NMOC as Carbon - Uncorrecte	17922	18251	17811		Ave		17994.9767			2.4		15.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45482-1 Analy Batch No.: 83144

SDG No.: 200-45482-1

Instrument ID: CH0001.i GC Column: Carbo/Unibe ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2015 10:26 Calibration End Date: 01/08/2015 12:02 Calibration ID: 29454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-83144/3	25cic1_01082015001.d-avg
Level 2	ICRT 200-83144/1	25cic2_01072015001.d-avg
Level 3	IC 200-83144/2	25cic3_01072015001.d-avg

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (PPM-C)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
NMOC as Carbon - Uncorrected	Ave	107534	13688467	32061215			6.00	750	1800		

Curve Type Legend:

Ave = Average

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015001.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 08-Jan-2015 10:26:27 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC2\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 09-Jan-2015 10:36:26 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK027

First Level Reviewer: lyonsb Date: 08-Jan-2015 10:55:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.885	9.908	-0.023	13693270	750.0	760.9	
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Reagents:

ATNMOCCVw\_00037 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015002.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 08-Jan-2015 10:42:18 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC2\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 09-Jan-2015 10:36:26 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK027

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.853	9.908	-0.055	13680161	750.0	760.2	

Reagents:

ATNMOCCCVw\_00037 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015.d  
 Lims ID: ICRT  
 Client ID:  
 Sample Type: ICRT Calib Level: 1  
 Inject. Date: 08-Jan-2015 10:10:35 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC2\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 09-Jan-2015 10:36:25 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK027

First Level Reviewer: lyonsb Date: 08-Jan-2015 10:35:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.908	9.908	0.000	13691971	750.0	760.9	
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Reagents:

ATNMOCCVw\_00037 Amount Added: 2.00 Units: mL



Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic2\_01072015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic2\_01072015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic2\_01072015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13693270	13680161	13691971	13688467.33	0.05

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	760.95	760.22	760.88	760.68	0.05

----- NMOC Correction-----  
NMOC correction not requested, NMOC correction not applied  
-----

Report Date: 09-Jan-2015 10:36:26

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015001.d

Injection Date: 08-Jan-2015 10:26:27

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 5

Client ID:

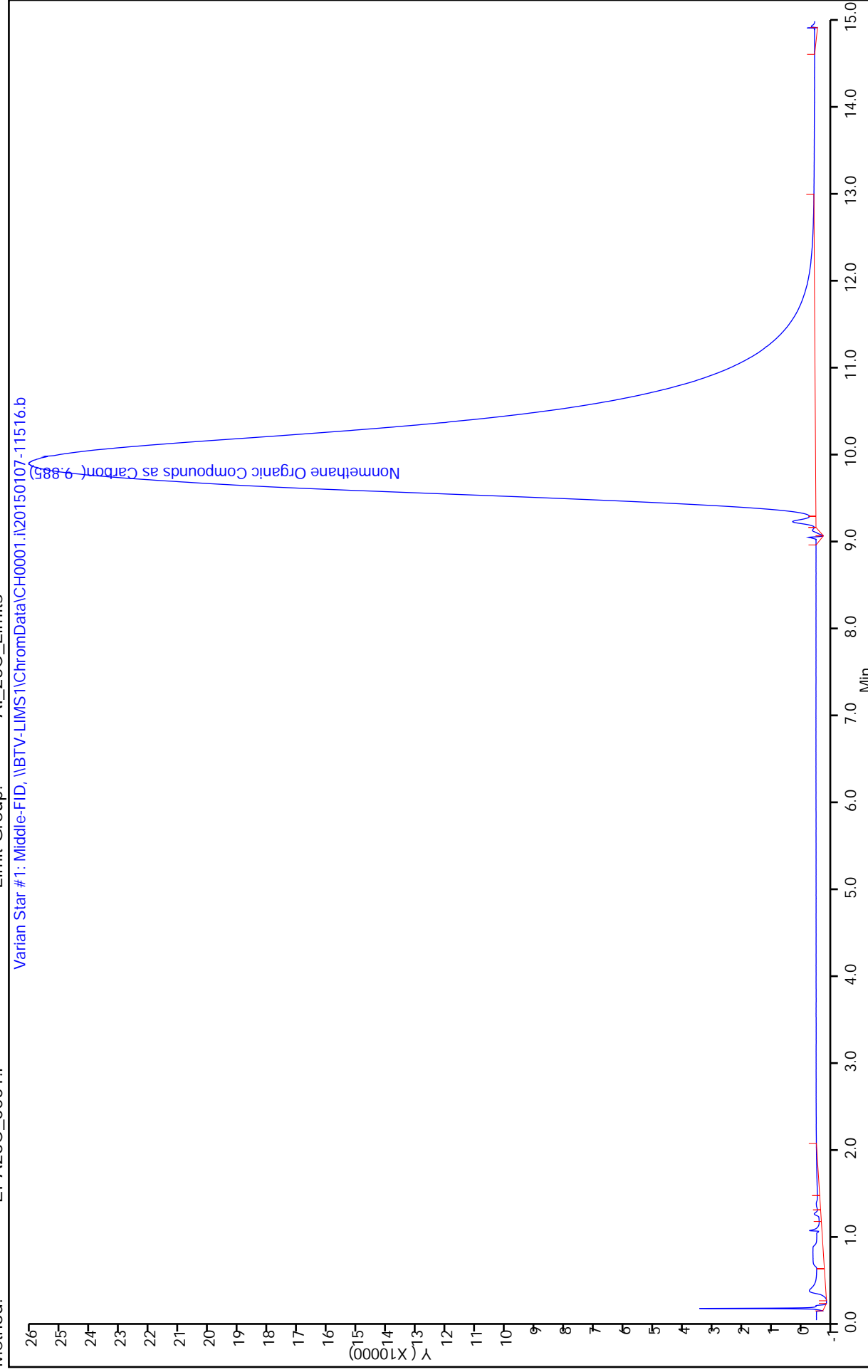
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015002.d

Injection Date: 08-Jan-2015 10:42:18

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 6

Client ID:

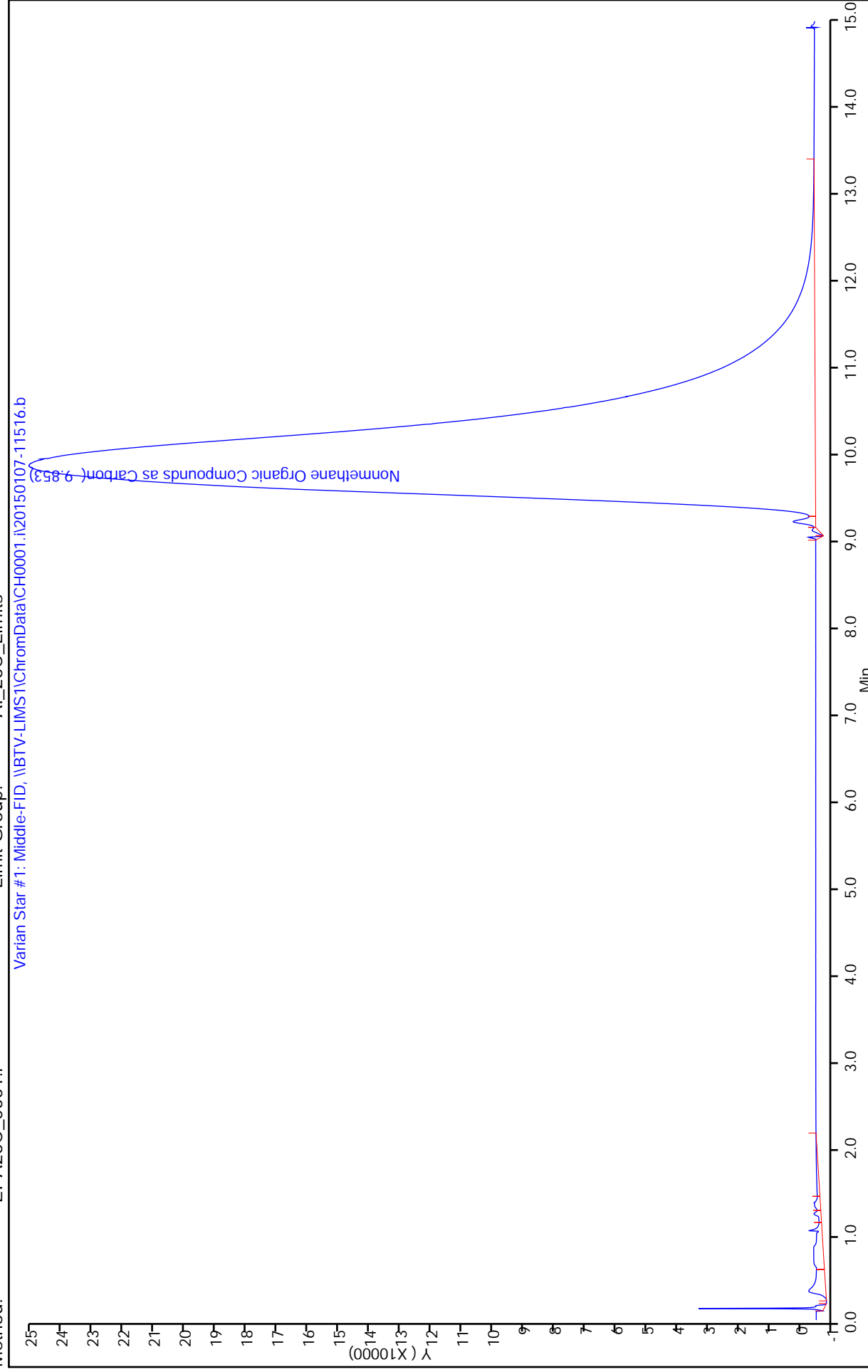
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015.d

Injection Date: 08-Jan-2015 10:10:35

Instrument ID: CH0001.i

Lims ID: ICRT

Operator ID: BPL

Worklist Smp#: 4

Client ID:

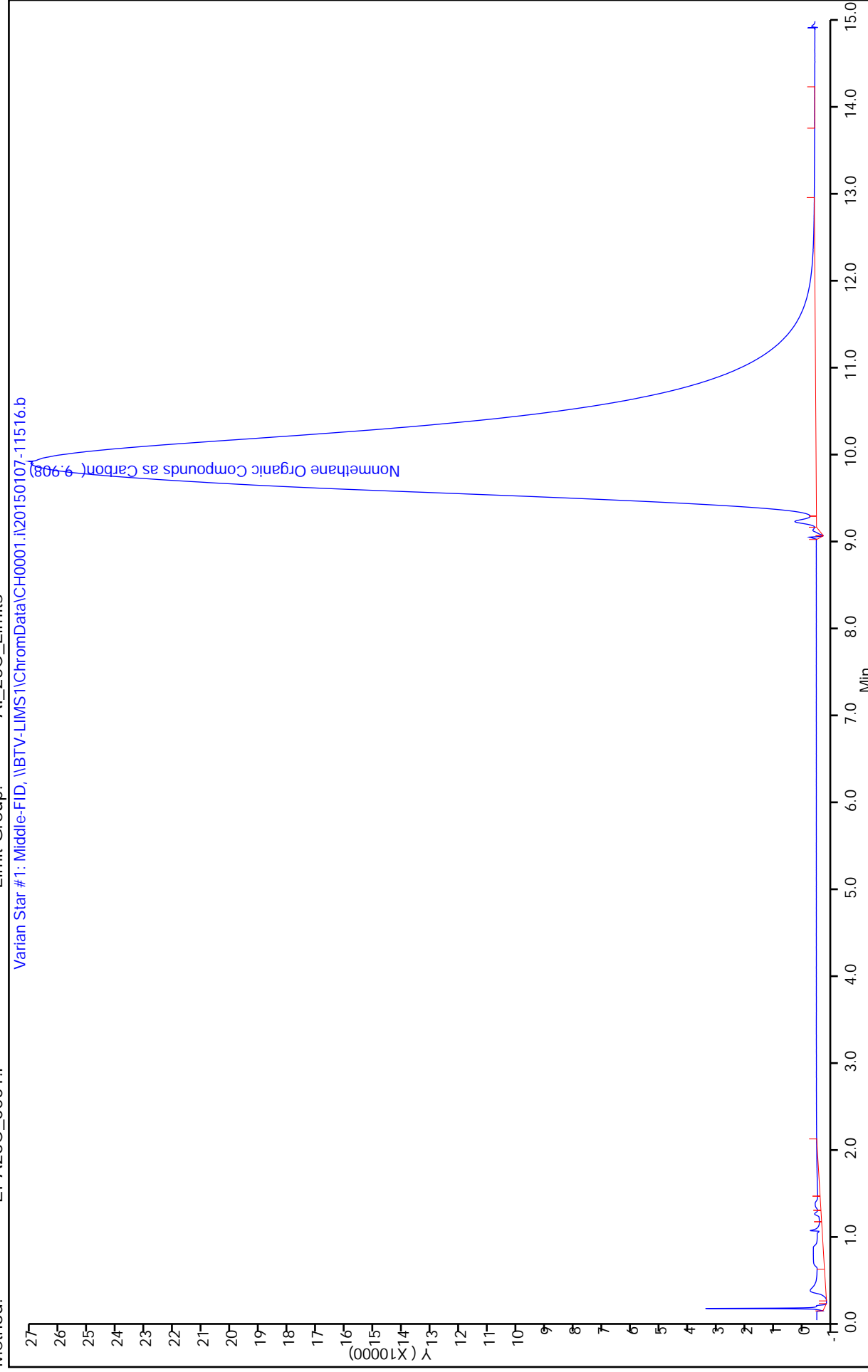
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015001.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 08-Jan-2015 11:14:01 ALS Bottle#: 0 Worklist Smp#: 8  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC3\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:18 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:11:34

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Nonmethane Organic Compoun	9.865	9.908	-0.043	32070596	1800.0	1782.2	
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Reagents:

ATNMOCCAL3w\_00018 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015002.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 08-Jan-2015 11:29:53 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC3\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:18 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:19:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.889	9.908	-0.019	32070536	1800.0	1782.2	
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Reagents:

ATNMOCCAL3w\_00018 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 08-Jan-2015 10:58:10 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC3\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:17 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 11:26:46

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.869	9.908	-0.039	32042514	1800.0	1780.6	
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Reagents:

ATNMOCCAL3w\_00018 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic3\_01072015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic3\_01072015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic3\_01072015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	32070596	32070536	32042514	32061215.33	0.05

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	1782.2	1782.19	1780.64	1781.68	0.05

----- NMOC Correction-----

NMOC correction not requested, NMOC correction not applied



Report Date: 08-Jan-2015 14:31:18

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001\20150107-11516.b\25cic3\_01072015001.d

Injection Date: 08-Jan-2015 11:14:01

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 8

Client ID:

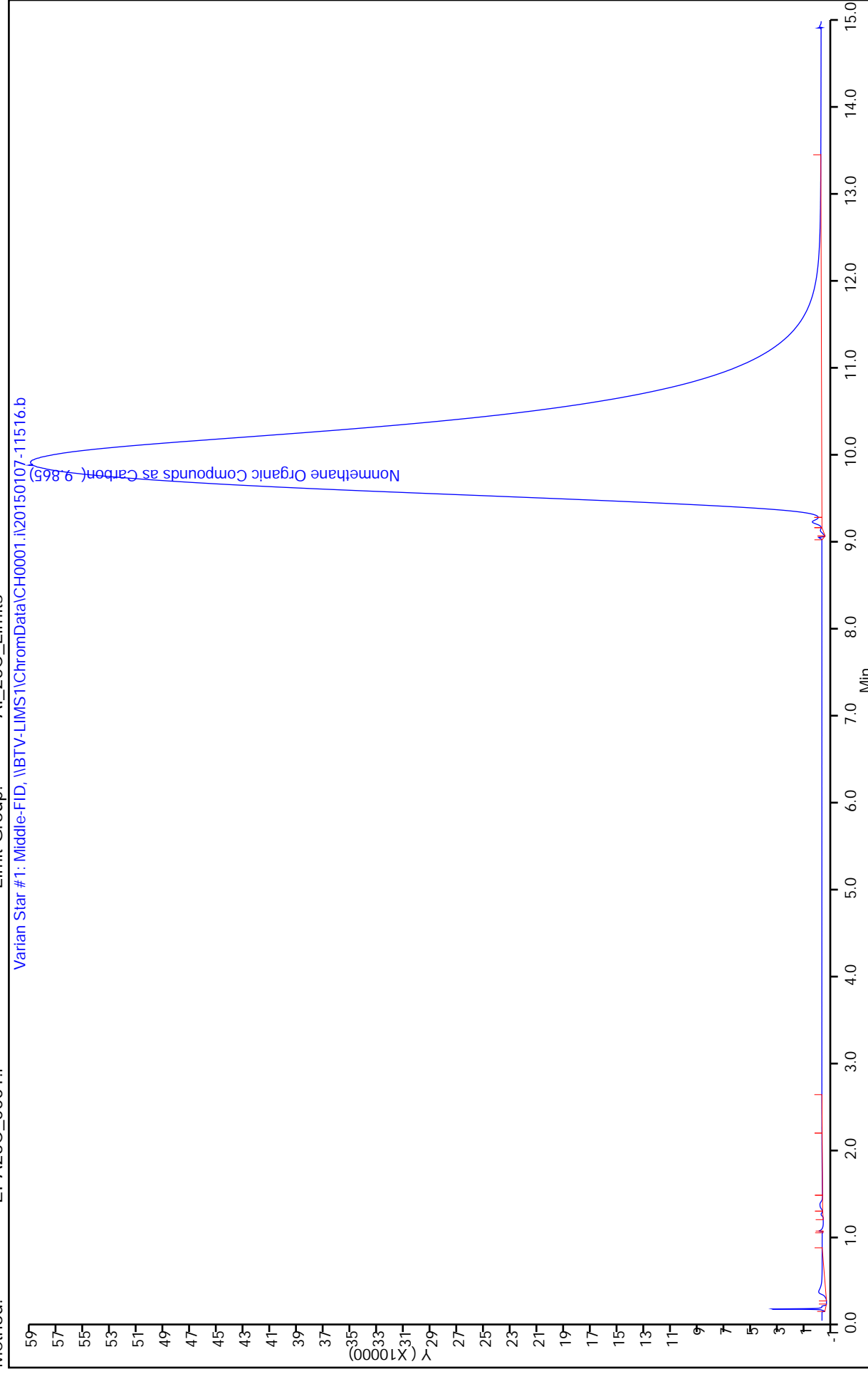
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:18

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015002.d

Injection Date: 08-Jan-2015 11:29:53

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 9

Client ID:

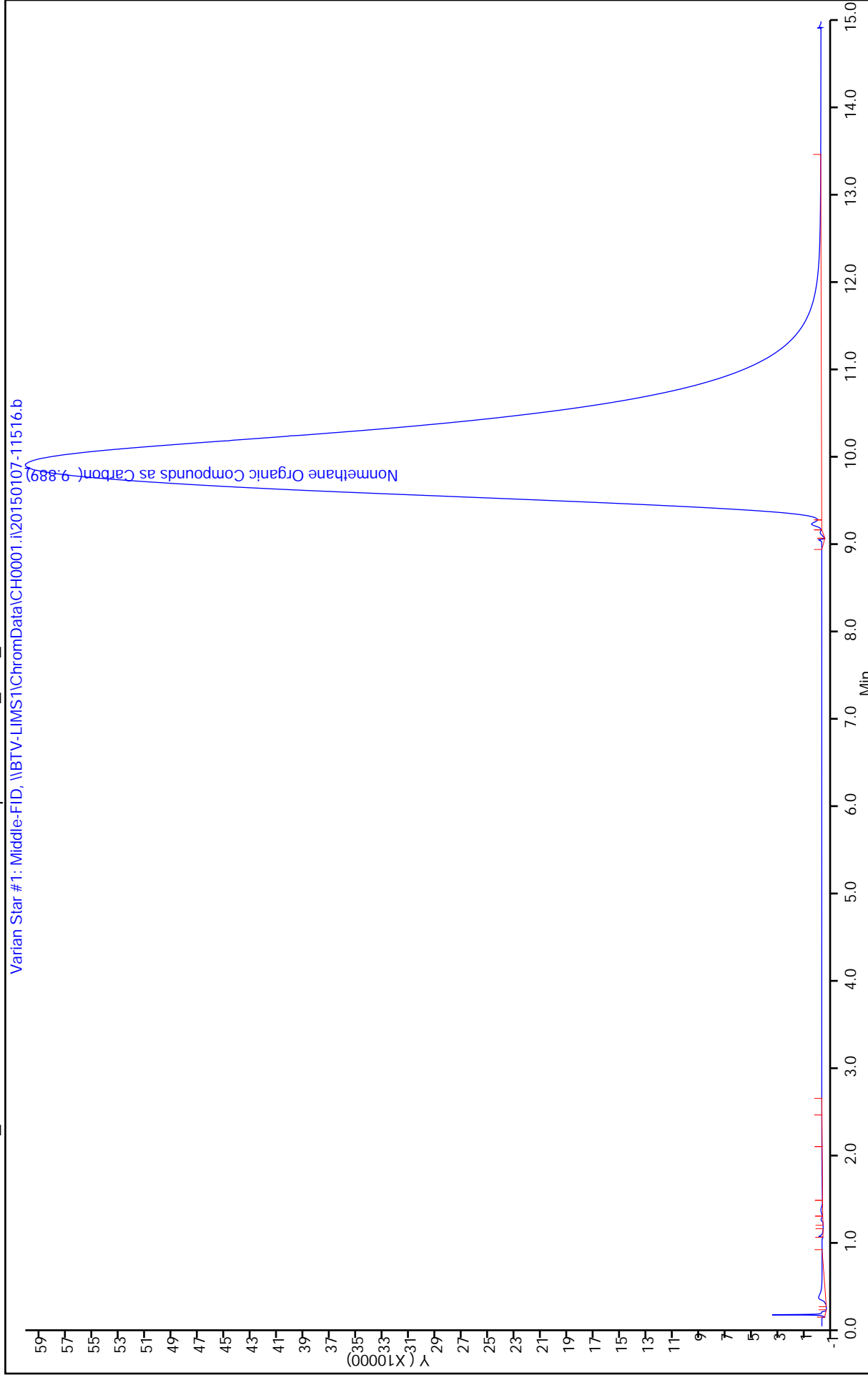
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015.d

Injection Date: 08-Jan-2015 10:58:10

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 7

Client ID:

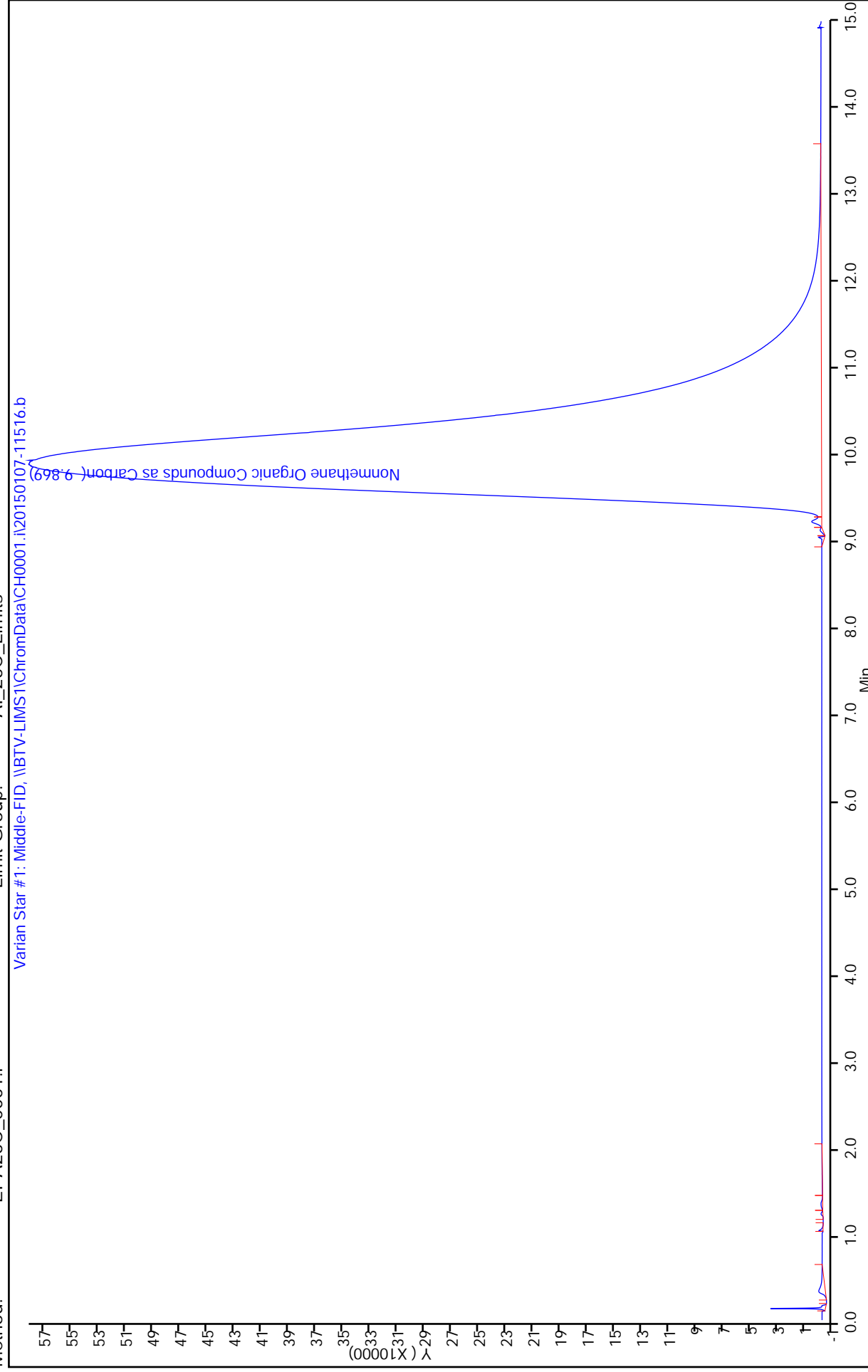
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015001.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 08-Jan-2015 12:02:40 ALS Bottle#: 0 Worklist Smp#: 14  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC1\_01082015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:19:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Nonmethane Organic Compoun	9.879	9.908	-0.029	104174	6.00	5.79	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATNMOCCAL1w\_00020 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 08-Jan-2015 12:18:33 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC1\_01082015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:36:44

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.810	9.908	-0.098	105774	6.00	5.88	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATNMOCCAL1w\_00020 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 08-Jan-2015 11:46:49 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC1\_01082015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:18 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:12:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.850	9.908	-0.058	112654	6.00	6.26	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATNMOCCAL1w\_00020 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic1\_01082015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic1\_01082015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic1\_01082015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	104174	105774	112654	107534	4.19

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	5.79	5.88	6.26	5.98	4.19

----- NMOC Correction-----

NMOC correction not requested, NMOC correction not applied

Report Date: 08-Jan-2015 14:31:19

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001\20150107-11516.b\25cic1\_01082015001.d

Injection Date: 08-Jan-2015 12:02:40

Instrument ID: CH0001.i

Lims ID: IC

Client ID:

Purge Vol: 2.000 mL

Method: EPA25C\_0001.i

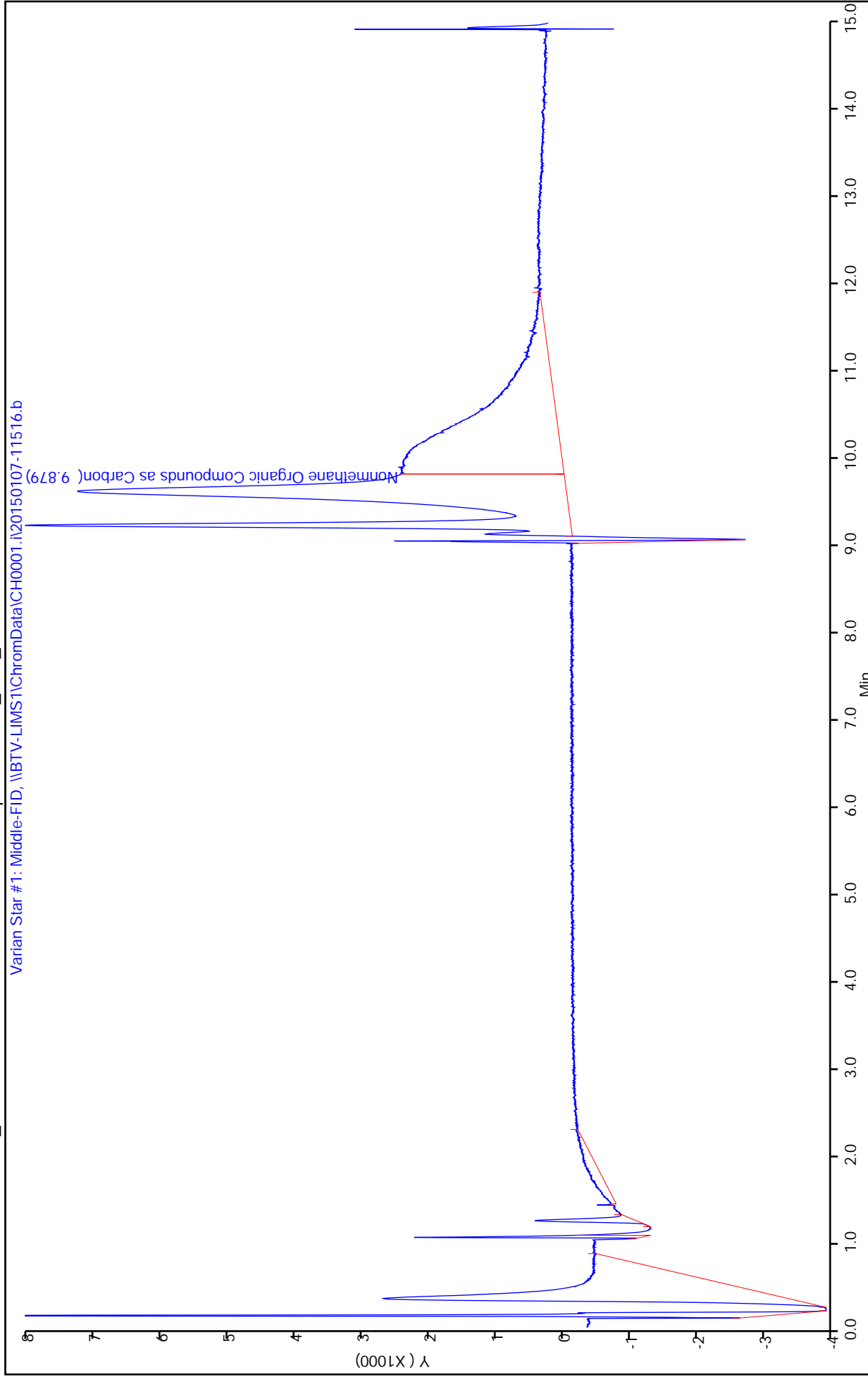
Dil. Factor: 1.0000

Limit Group: AI\_25C\_Limits

Operator ID: BPL

Worklist Smp#: 14

ALS Bottle#: 0





Report Date: 08-Jan-2015 14:31:20

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001\20150107-11516.b\25cic1\_01082015002.d

Injection Date: 08-Jan-2015 12:18:33

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: IC

Worklist Smp#: 13

Client ID:

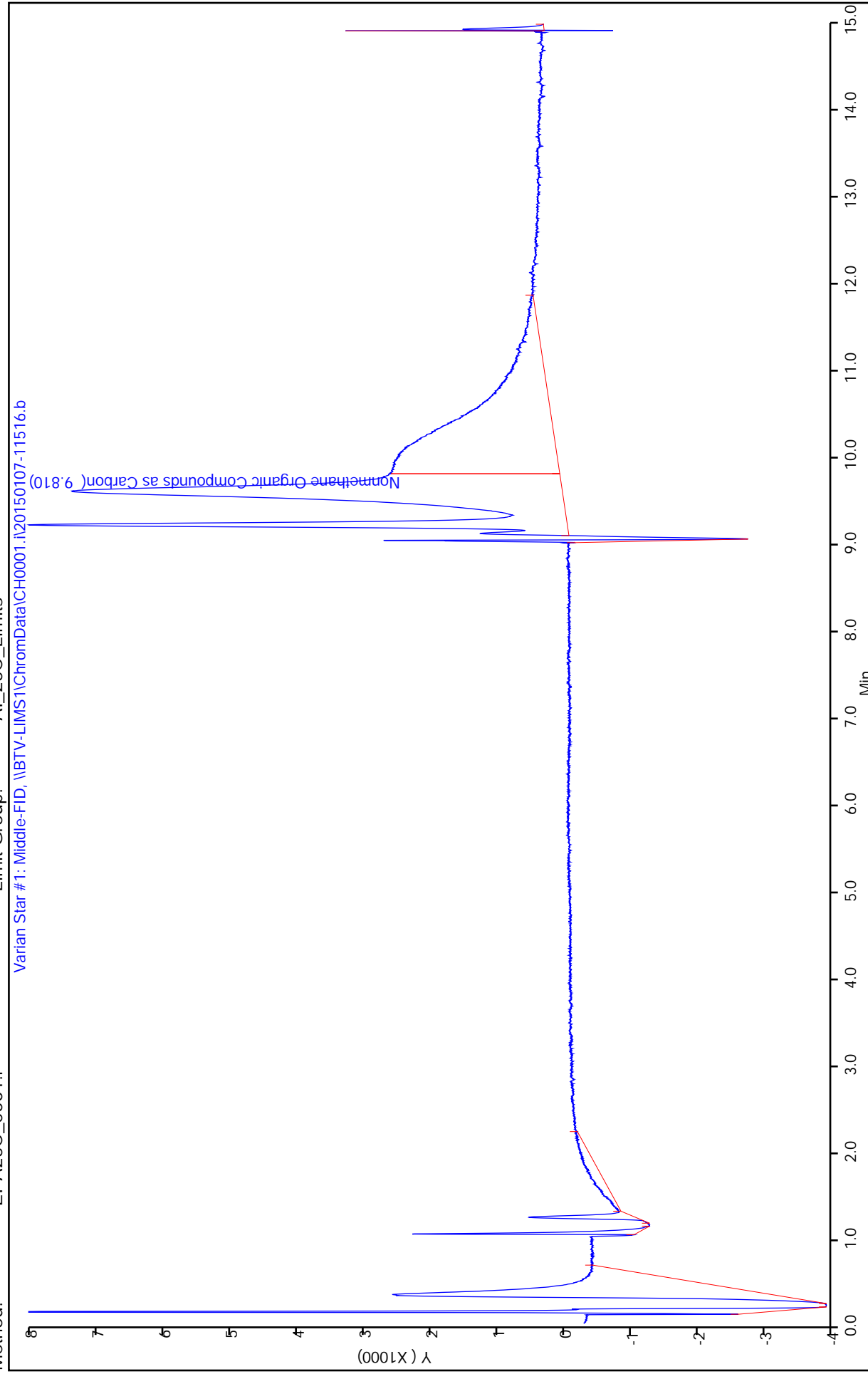
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015.d

Injection Date: 08-Jan-2015 11:46:49

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 15

Client ID:

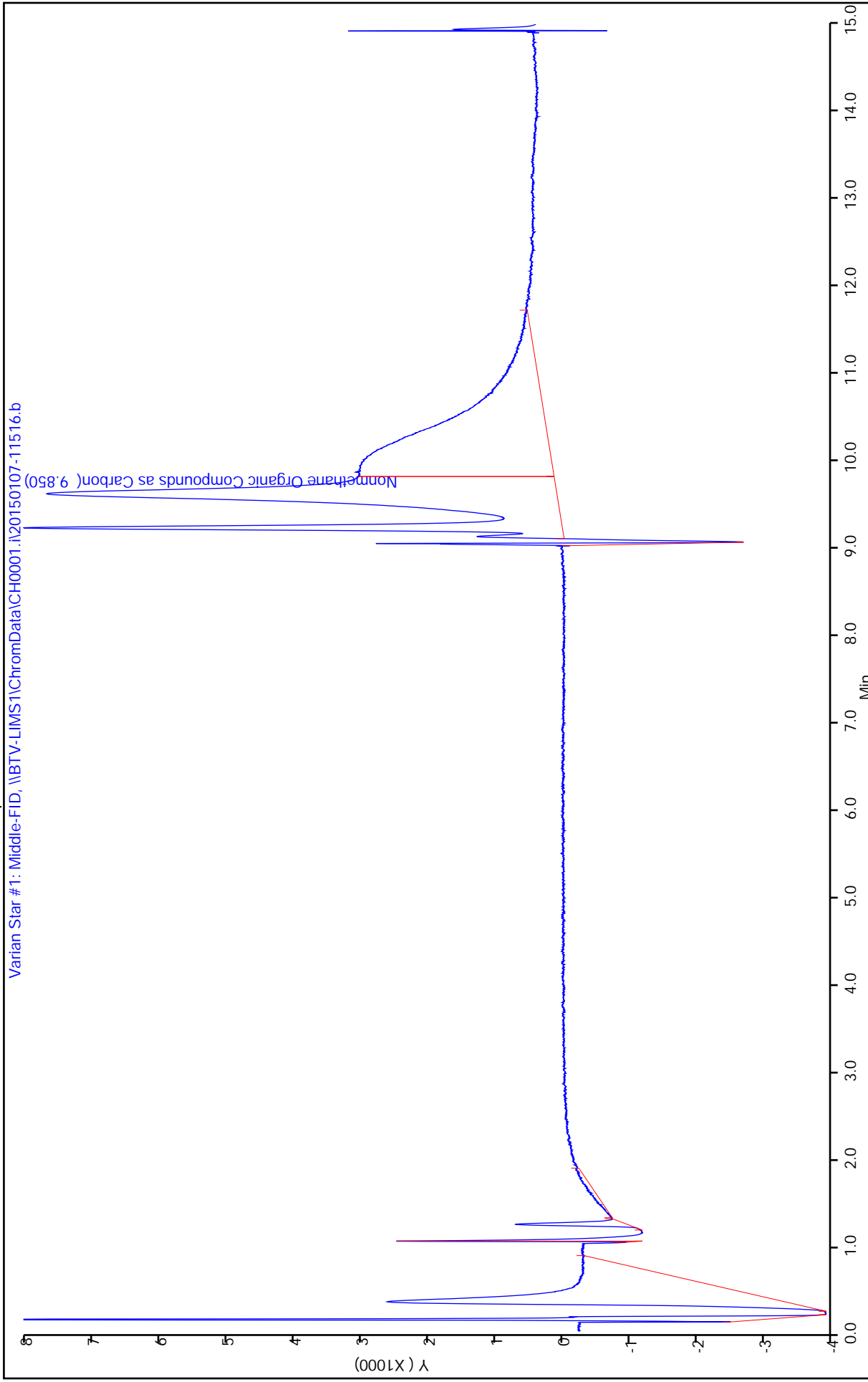
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



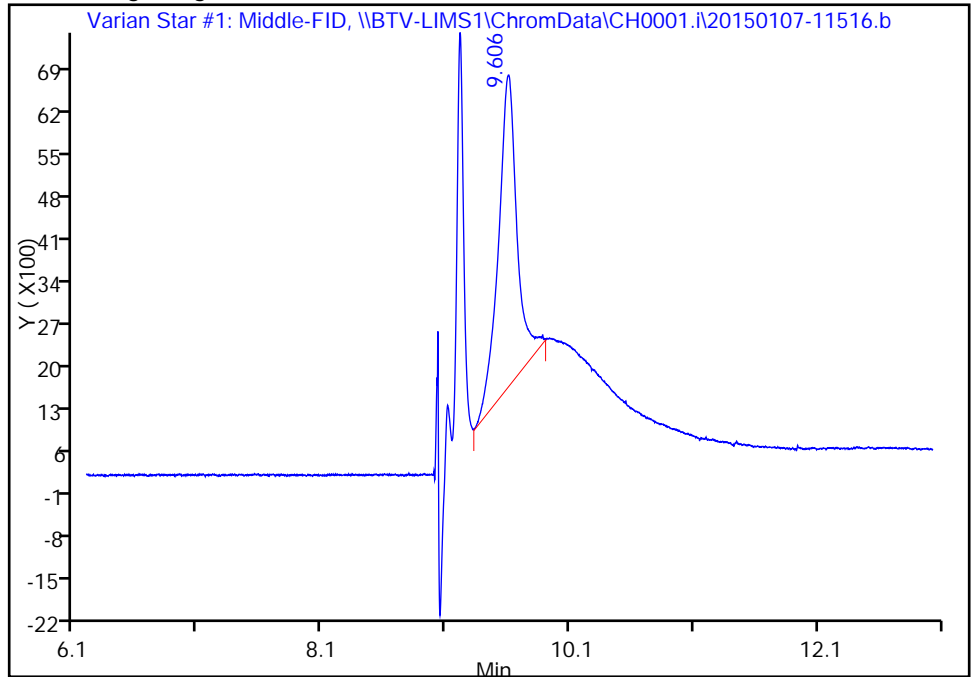
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015001.d  
Injection Date: 08-Jan-2015 12:02:40 Instrument ID: CH0001.i  
Lims ID: IC  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 14  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

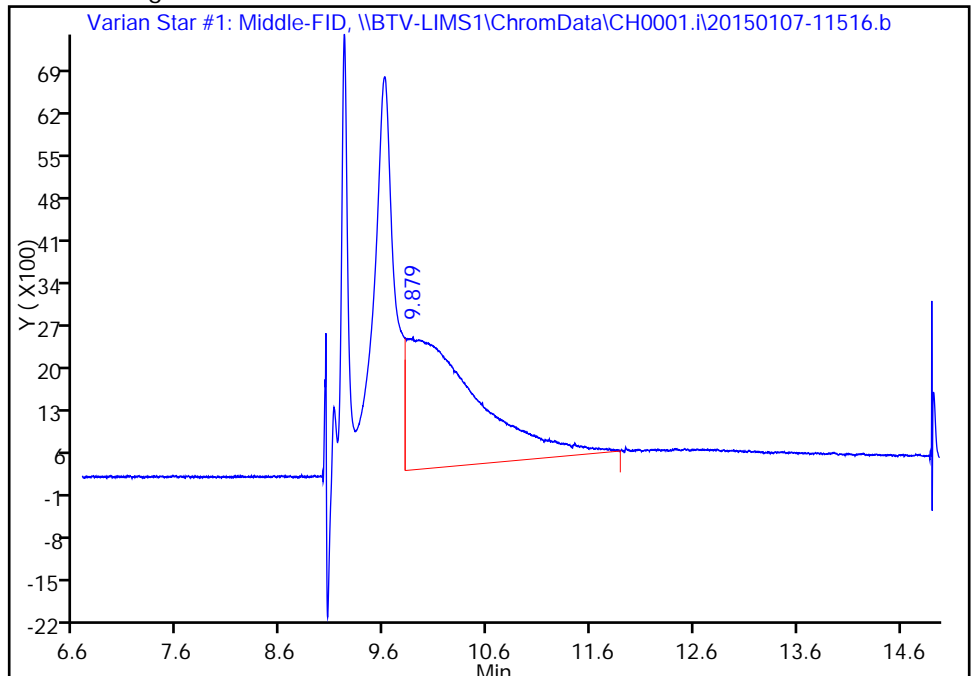
RT: 9.61  
Response: 53785  
Amount: 3.165508

Processing Integration Results



RT: 9.88  
Response: 104174  
Amount: 5.789060

Manual Integration Results



Reviewer: lyonsb, 08-Jan-2015 12:40:14  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline Event

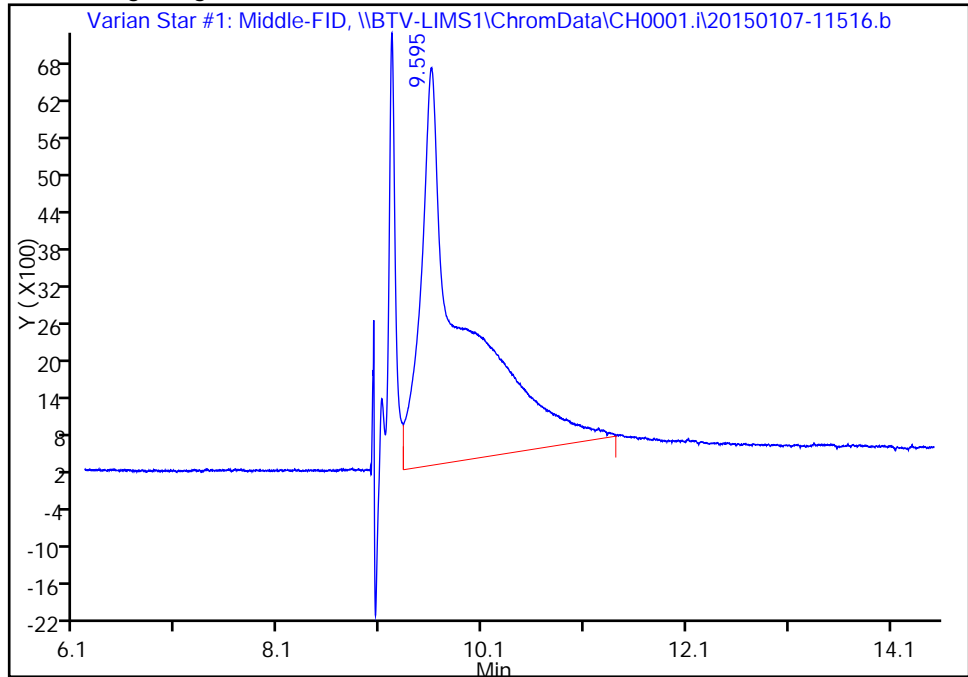
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
Injection Date: 08-Jan-2015 12:18:33 Instrument ID: CH0001.i  
Lims ID: IC  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 13  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

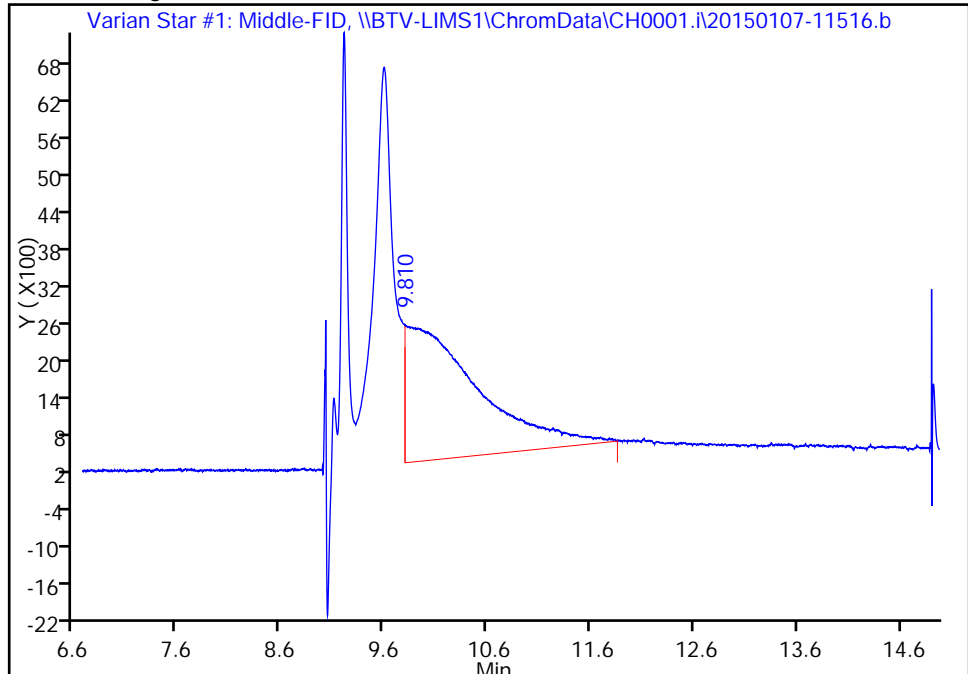
RT: 9.60  
Response: 183944  
Amount: 9.519636

Processing Integration Results



RT: 9.81  
Response: 105774  
Amount: 5.877974

Manual Integration Results



Reviewer: lyonsb, 08-Jan-2015 12:40:39  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline Event

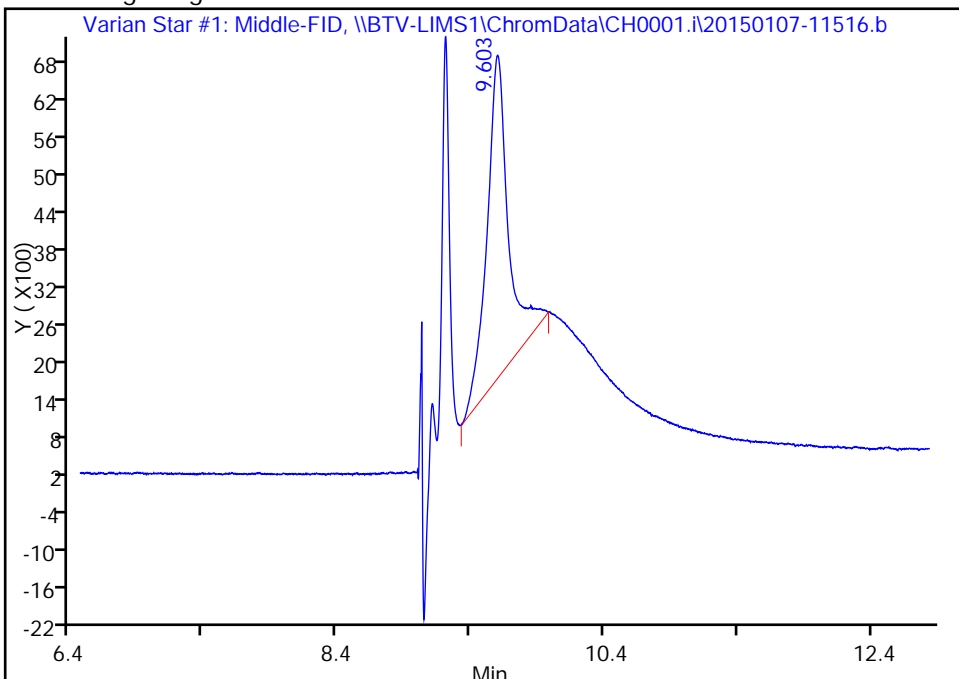
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015.d  
Injection Date: 08-Jan-2015 11:46:49 Instrument ID: CH0001.i  
Lims ID: IC  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

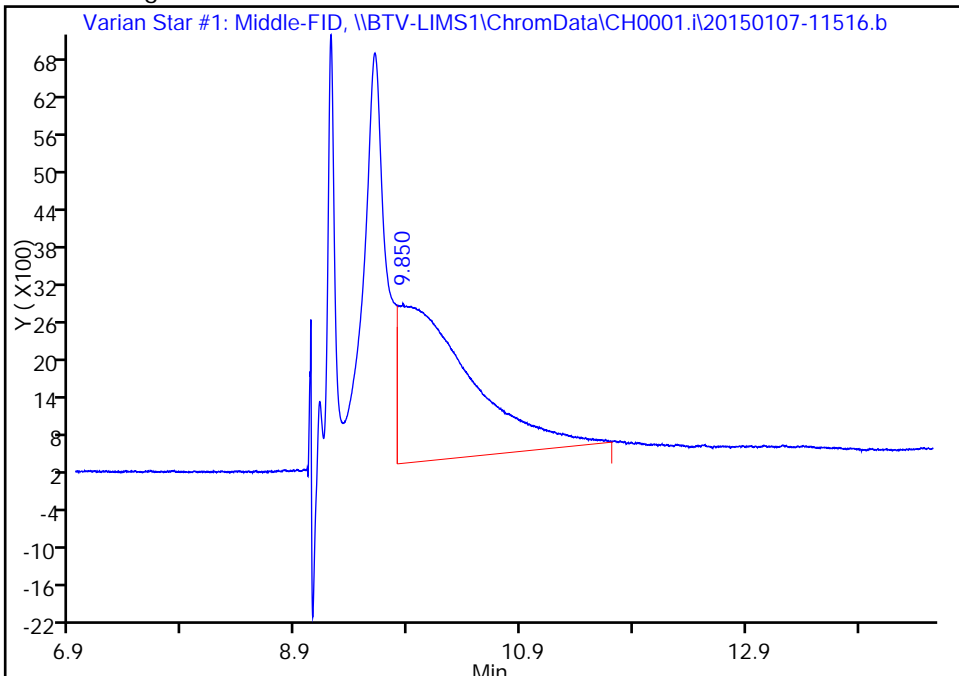
RT: 9.60  
Response: 57698  
Amount: 3.428454

Processing Integration Results



RT: 9.85  
Response: 112654  
Amount: 6.260303

Manual Integration Results



Reviewer: lyonsb, 08-Jan-2015 12:18:19  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline Event

FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: ICV 200-83144/4 Calibration Date: 01/08/2015 12:50  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cicv\_01082015001.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	17873		746	750	-0.7	30.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015001.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Jan-2015 12:50:16 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CICV\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.843	9.908	-0.065	13404422	750.0	744.9	

Reagents:

ATNMOCLCSw\_00045 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015002.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Jan-2015 13:06:08 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CICV\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d

Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun 9.873 9.908 -0.035 13437154 750.0 746.7

Reagents:

ATNMOCLCSw\_00045 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Jan-2015 12:34:24 ALS Bottle#: 0 Worklist Smp#: 10  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CICV\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d

Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 13:12:30

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.870	9.908	-0.038	13417165	750.0	745.6	
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Reagents:

ATNMOCLCSw\_00045 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cicv\_01082015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cicv\_01082015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cicv\_01082015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13404422	13437154	13417165	13419580.33	0.12

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	744.9	746.72	745.61	745.74	0.12

----- NMOC Correction-----

NMOC correction not requested, NMOC correction not applied

Report Date: 08-Jan-2015 14:31:21

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015001.d

Injection Date: 08-Jan-2015 12:50:16

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ICV

Worklist Smp#: 11

Client ID:

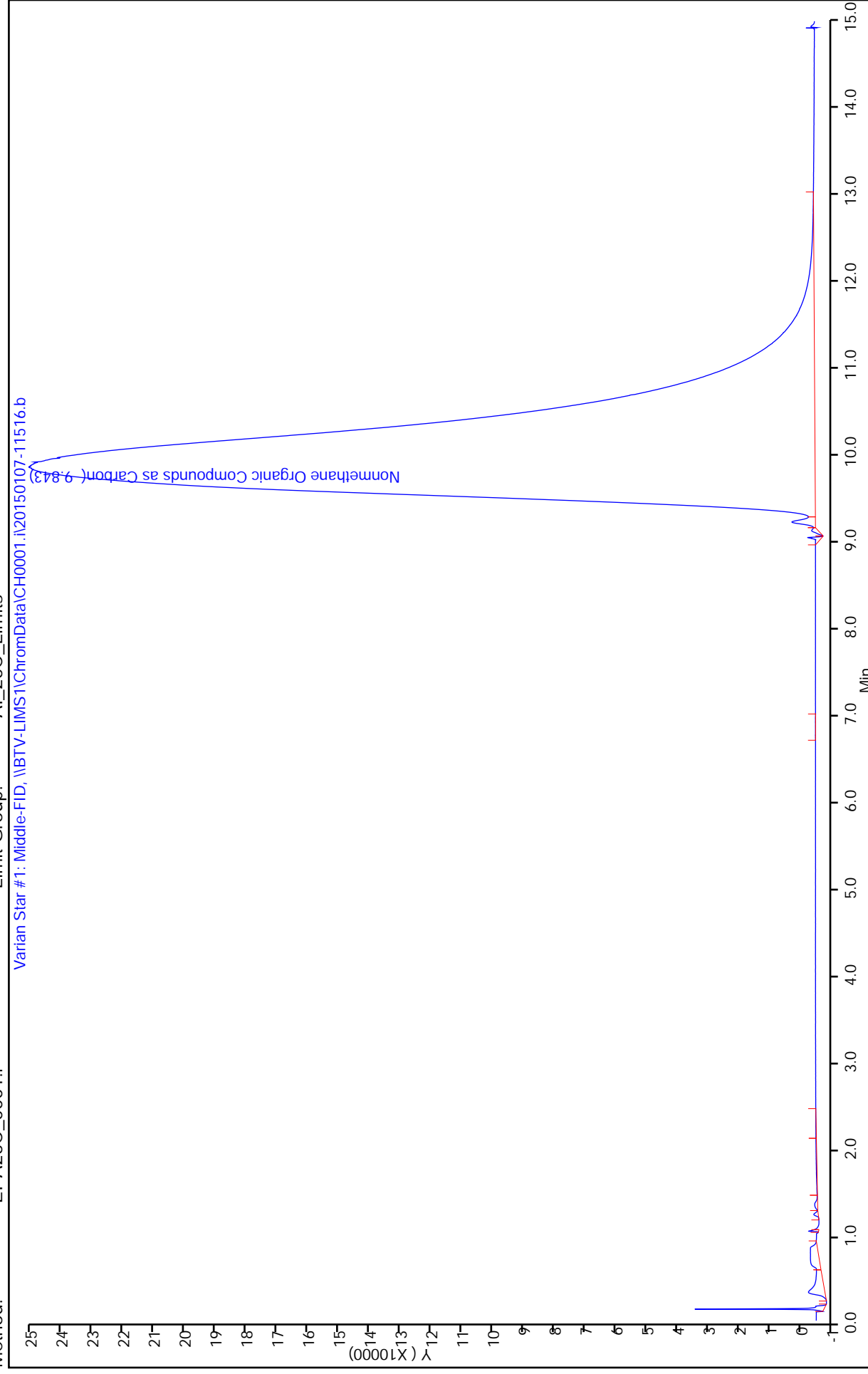
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:21

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015002.d

Injection Date: 08-Jan-2015 13:06:08

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ICV

Worklist Smp#: 12

Client ID:

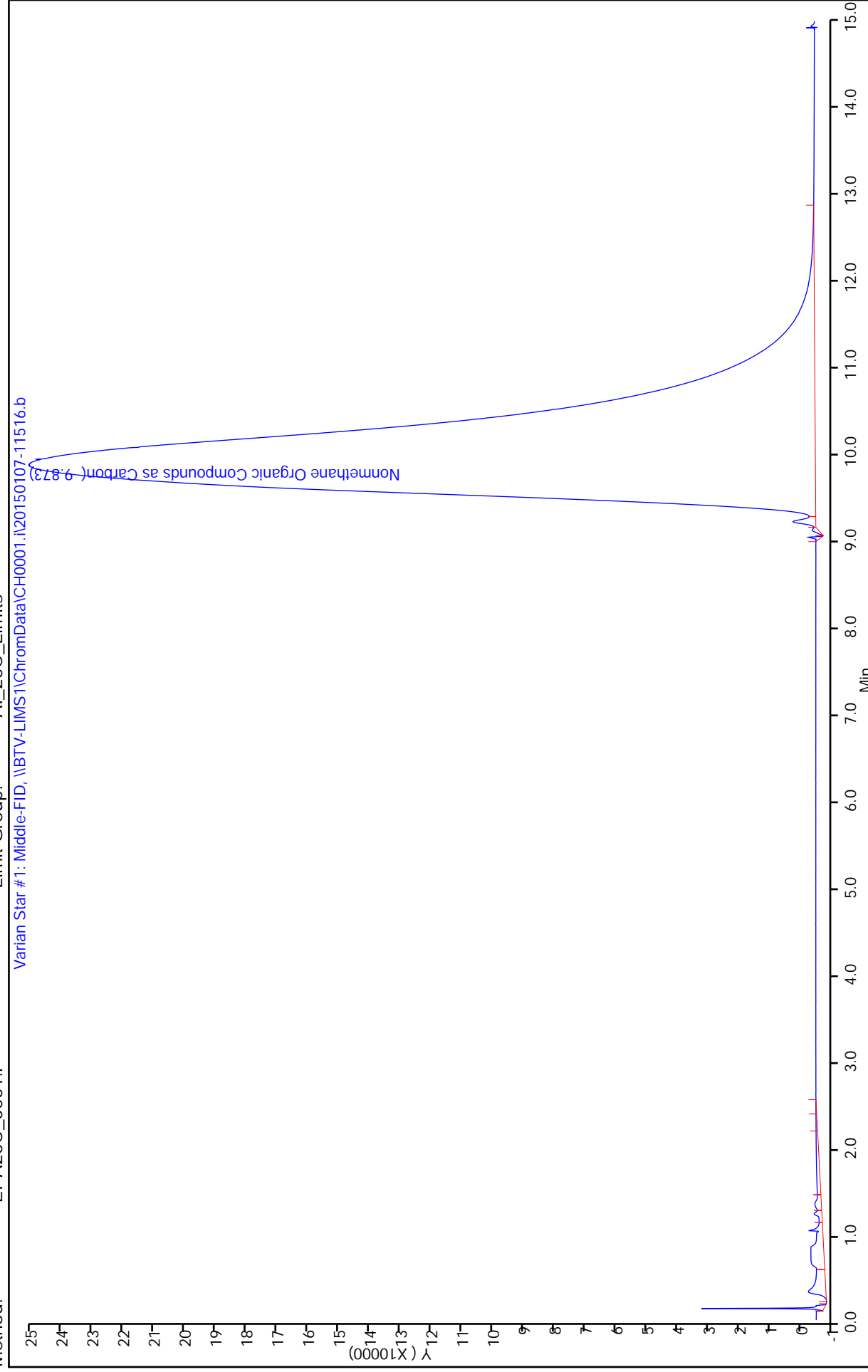
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:20

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015.d

Injection Date: 08-Jan-2015 12:34:24

Instrument ID: CH0001.i

Lims ID: ICV

Operator ID: BPL

Worklist Smp#: 10

Client ID:

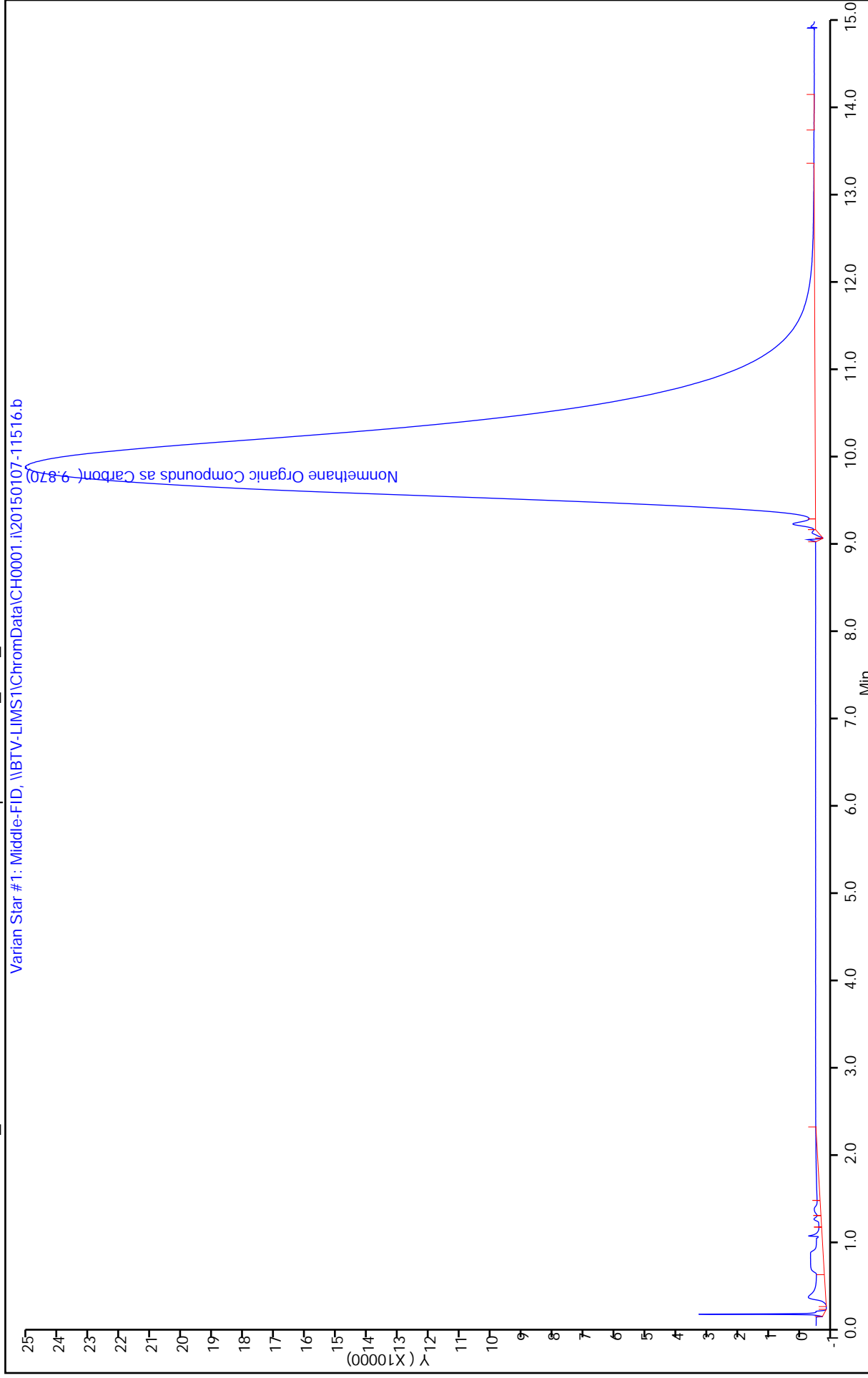
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCV 200-135207/1 Calibration Date: 10/04/2018 17:33  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccv20181004c.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	16311		690	750	-9.4	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25cccv20181004c.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 04-Oct-2018 17:33:18 ALS Bottle#: 0 Worklist Smp#: 1  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv20181004c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:06 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 06-Oct-2018 10:59:21

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.085	9.908	0.177	12233619	750.0	679.8	
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Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25cccv20181004d.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 04-Oct-2018 17:49:19 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv20181004d  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:09 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:32:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Nonmethane Organic Compoun	10.062	9.908	0.154	12410283	750.0	689.7	
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Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25cccv20181004e.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 04-Oct-2018 18:05:21 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv20181004e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:33:10

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Nonmethane Organic Compoun	10.038	9.908	0.130	12587223	750.0	699.5	
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Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccv20181004c-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccv20181004d-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccv20181004e-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12233619	12410283	12587223	12410375	1.43

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	679.84	689.65	699.49	689.66	1.43

Report Date: 13-Oct-2018 14:46:07

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25cccv20181004c.d

Injection Date: 04-Oct-2018 17:33:18

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 1

Client ID:

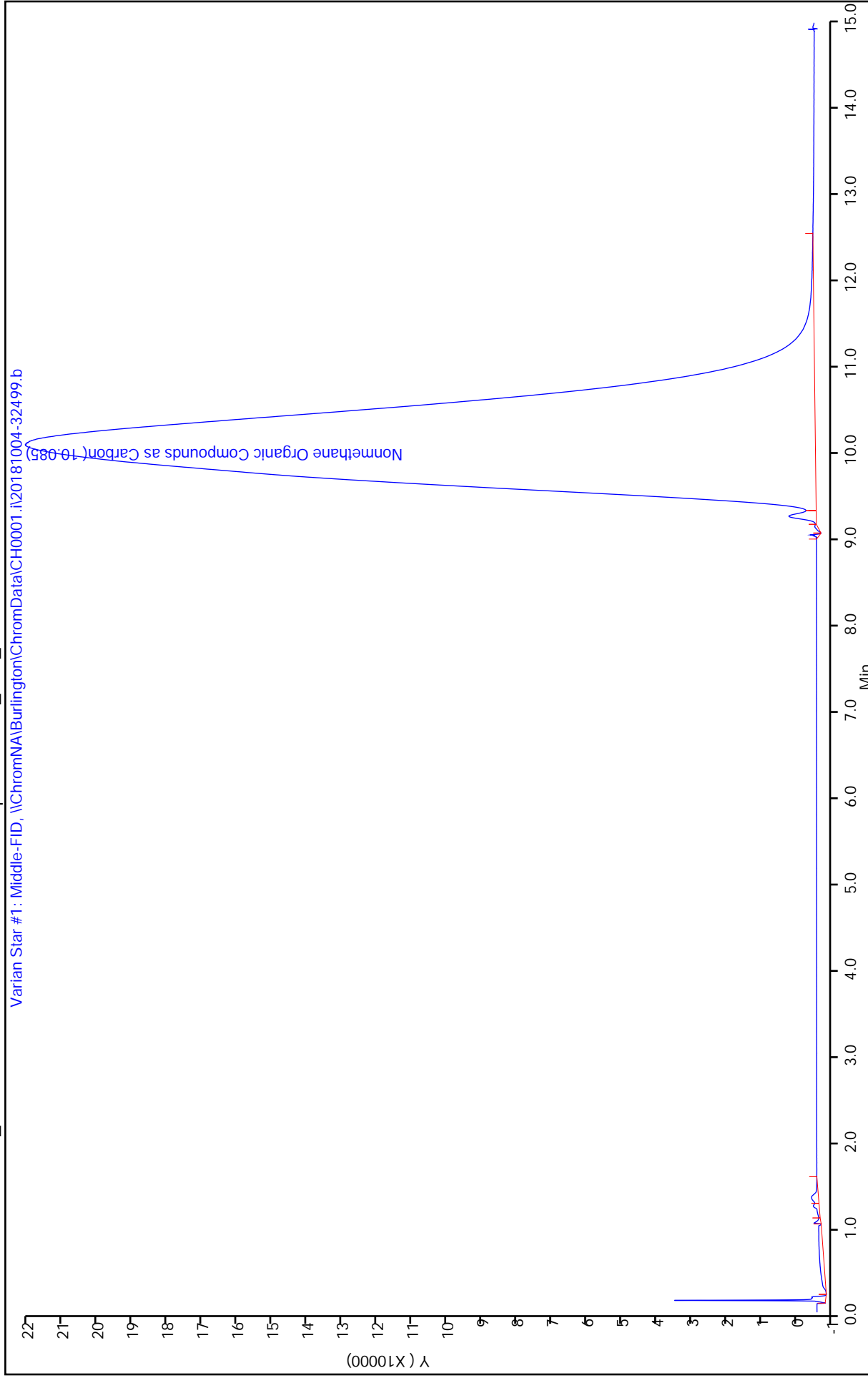
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:46:10

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25cccv20181004d.d

Injection Date: 04-Oct-2018 17:49:19

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 2

Client ID:

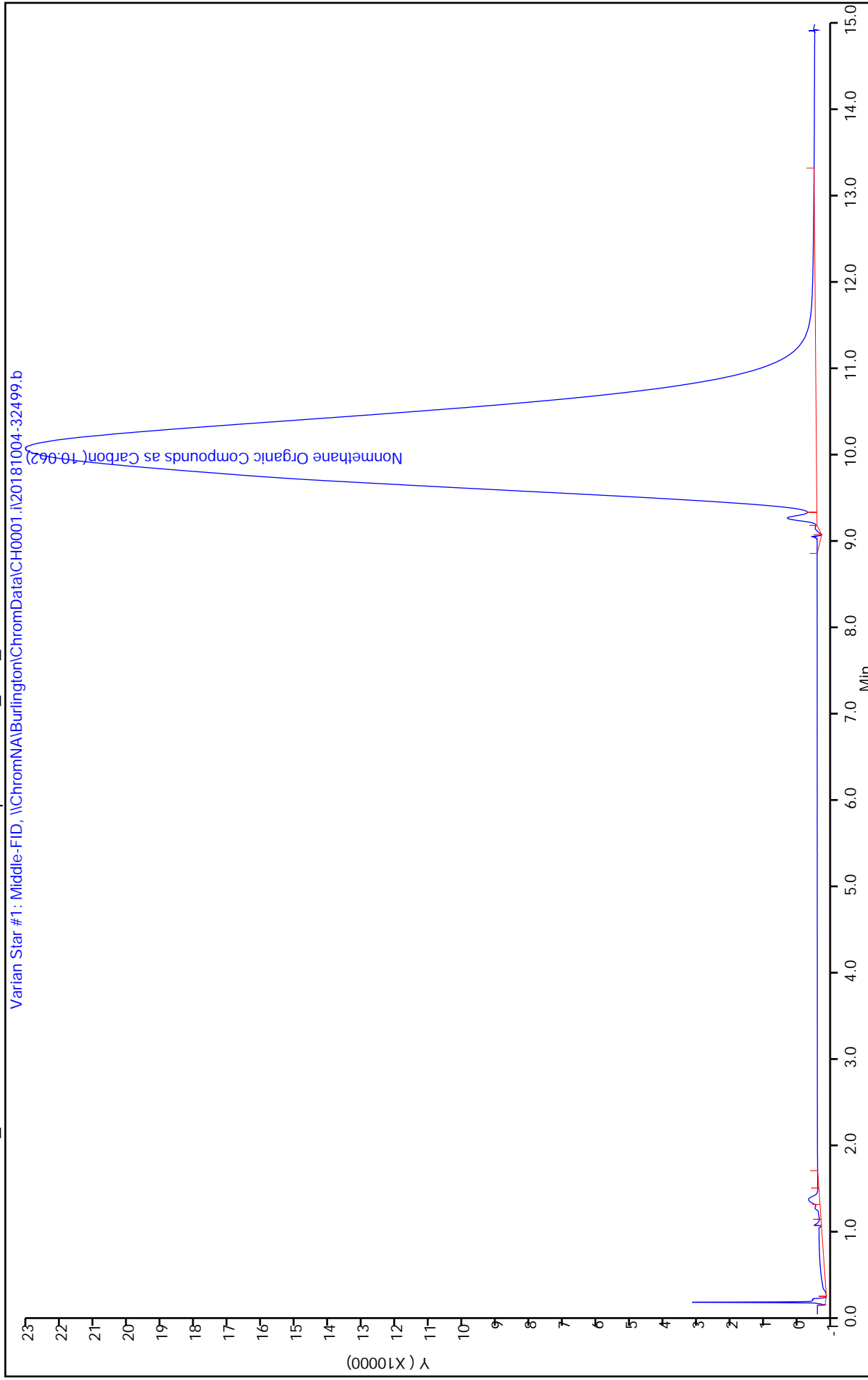
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25cccv20181004e.d

Injection Date: 04-Oct-2018 18:05:21

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 3

Client ID:

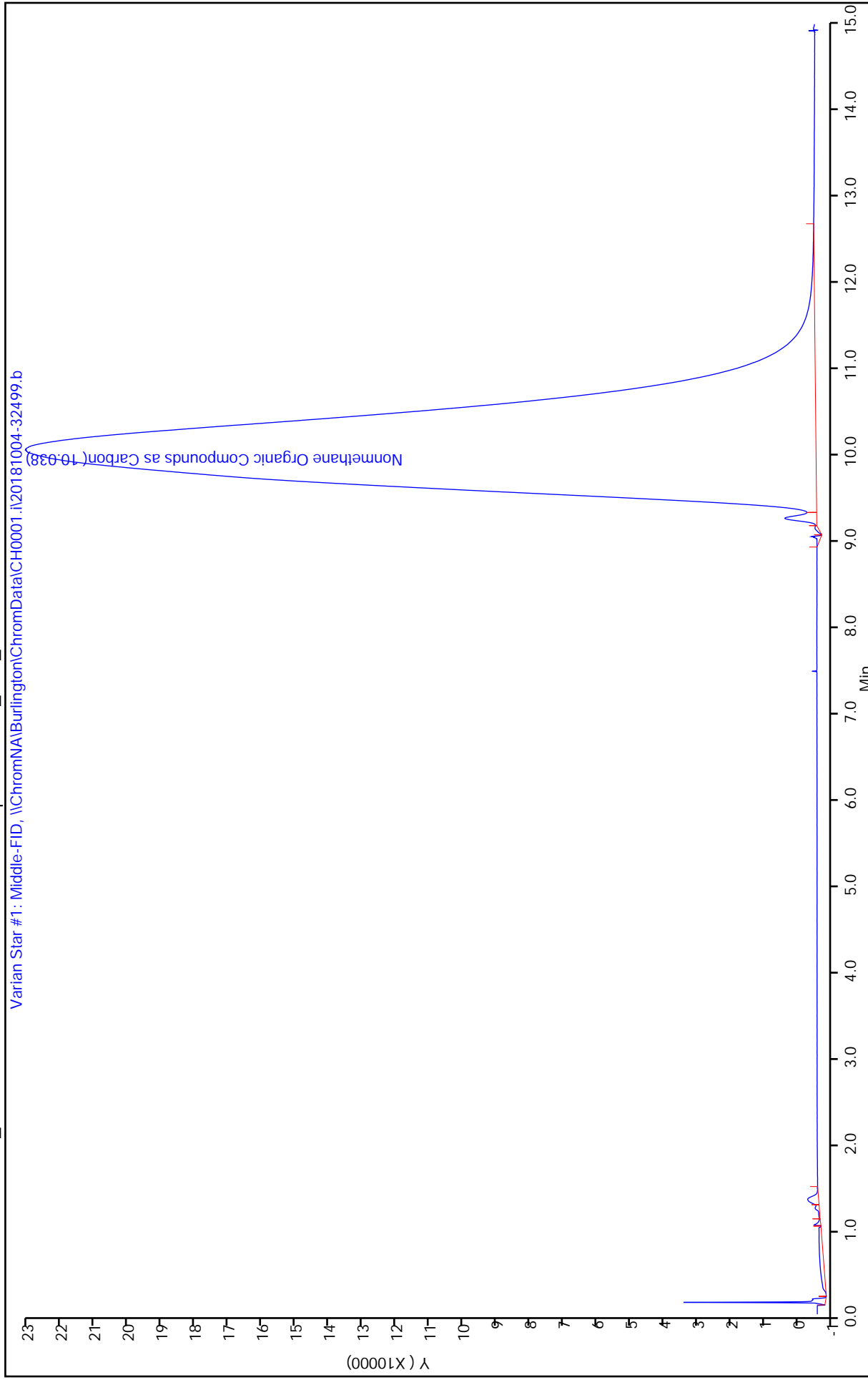
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCVC 200-135207/16 Calibration Date: 10/05/2018 16:09  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccvc20181005a.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	18202		759	750	1.1	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25ccvc20181005a.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 05-Oct-2018 16:09:33 ALS Bottle#: 0 Worklist Smp#: 46  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181005a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:48:04 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.063	9.908	0.155	13559553	750.0	753.5	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25ccvc20181005b.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 05-Oct-2018 16:25:36 ALS Bottle#: 0 Worklist Smp#: 47  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181005b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:48:06 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.050	9.908	0.142	13631658	750.0	757.5	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25ccvc20181005c.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 05-Oct-2018 16:41:38 ALS Bottle#: 0 Worklist Smp#: 48  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181005c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 15:58:08 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 15:00:29

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.053	9.908	0.145	13762896	750.0	764.8	
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Reagents:

ATNMOCCVw\_00055 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccvc20181005a-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181005b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181005c-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13559553	13631658	13762896	13651369	0.82

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	753.52	757.53	764.82	758.62	0.82

Report Date: 13-Oct-2018 14:48:04

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25ccvc20181005a.d

Injection Date: 05-Oct-2018 16:09:33

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 46

Client ID:

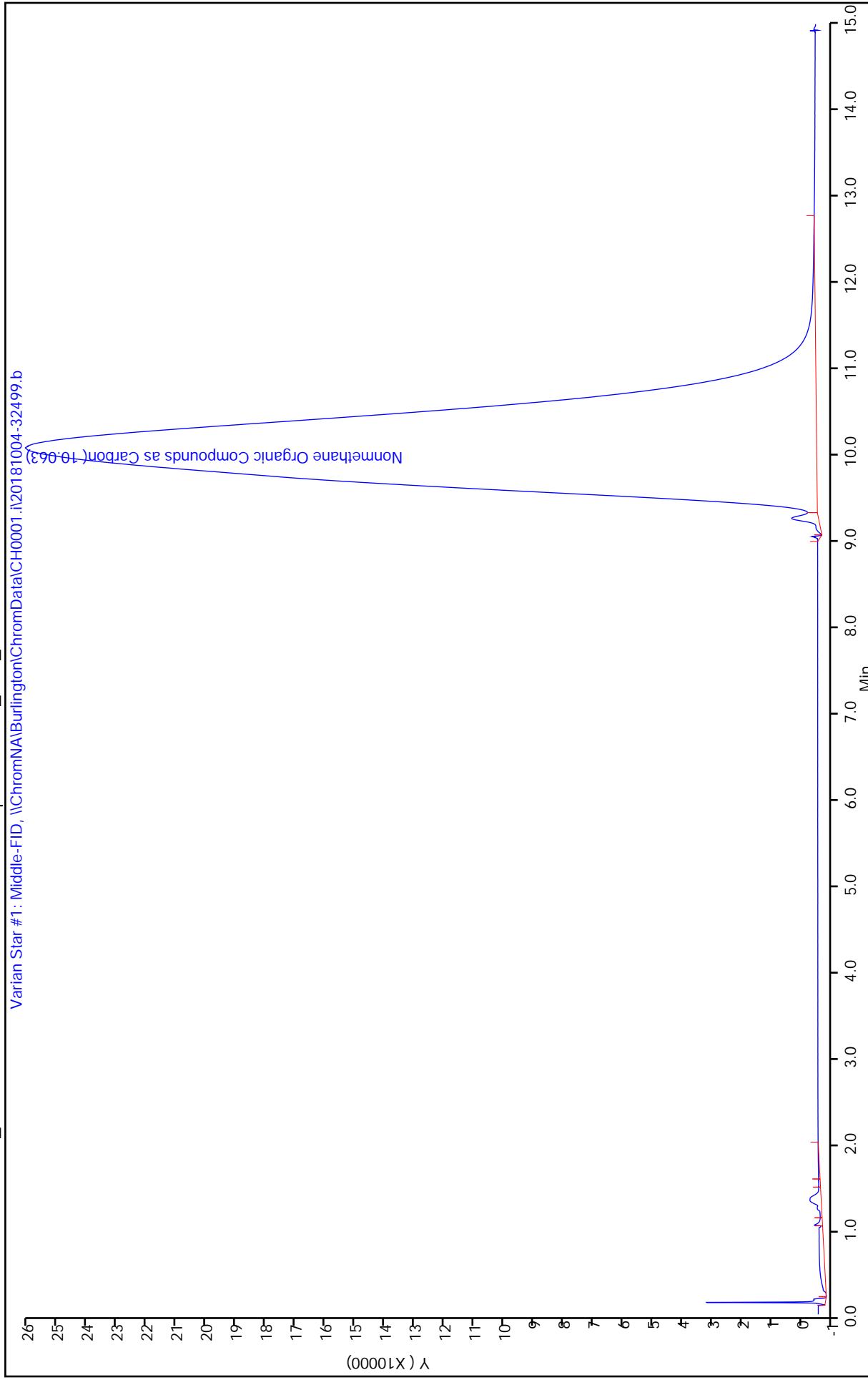
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:48:06

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25ccvc20181005b.d

Injection Date: 05-Oct-2018 16:25:36

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 47

Client ID:

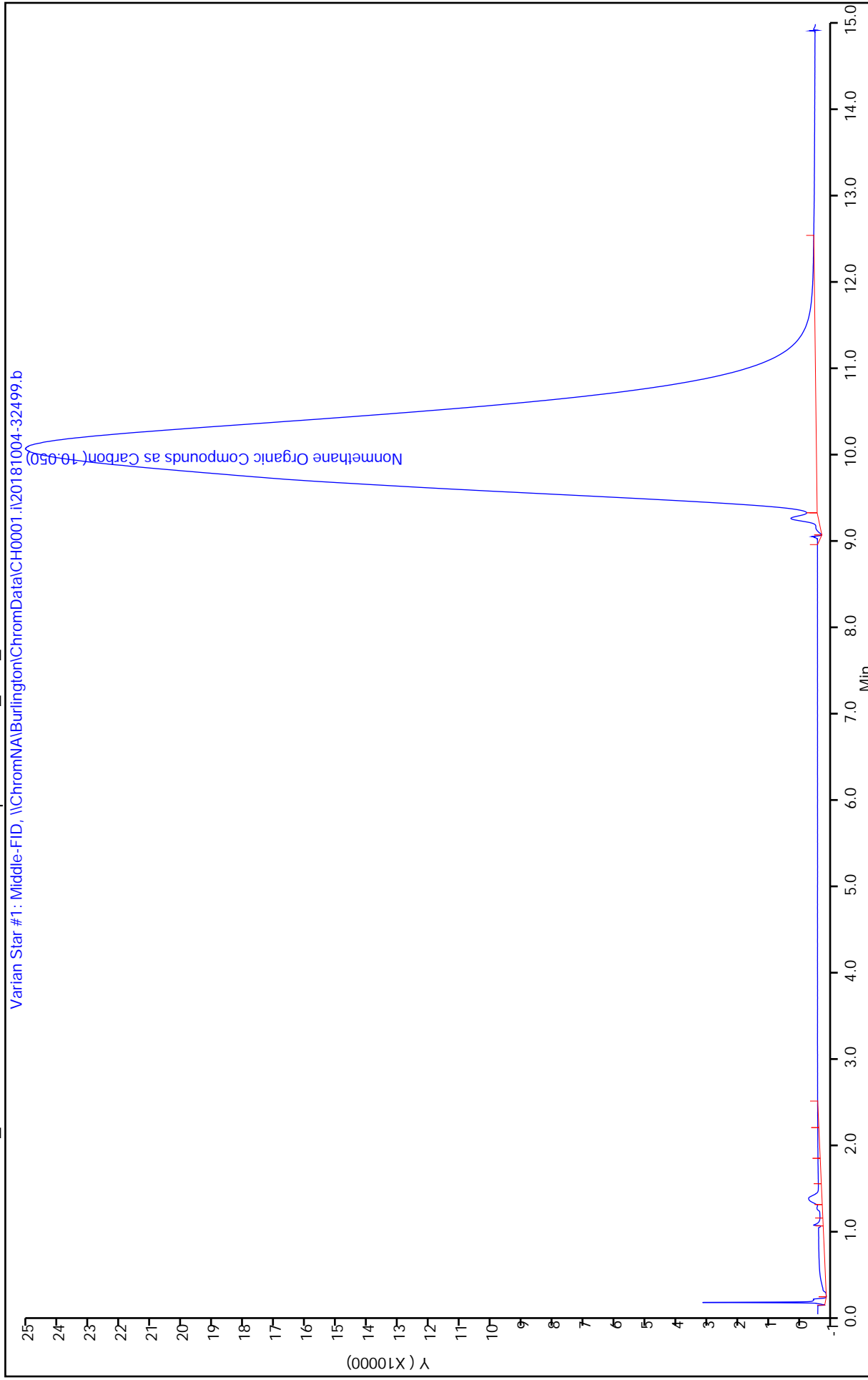
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25ccvc20181005c.d

Injection Date: 05-Oct-2018 16:41:38

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 48

Client ID:

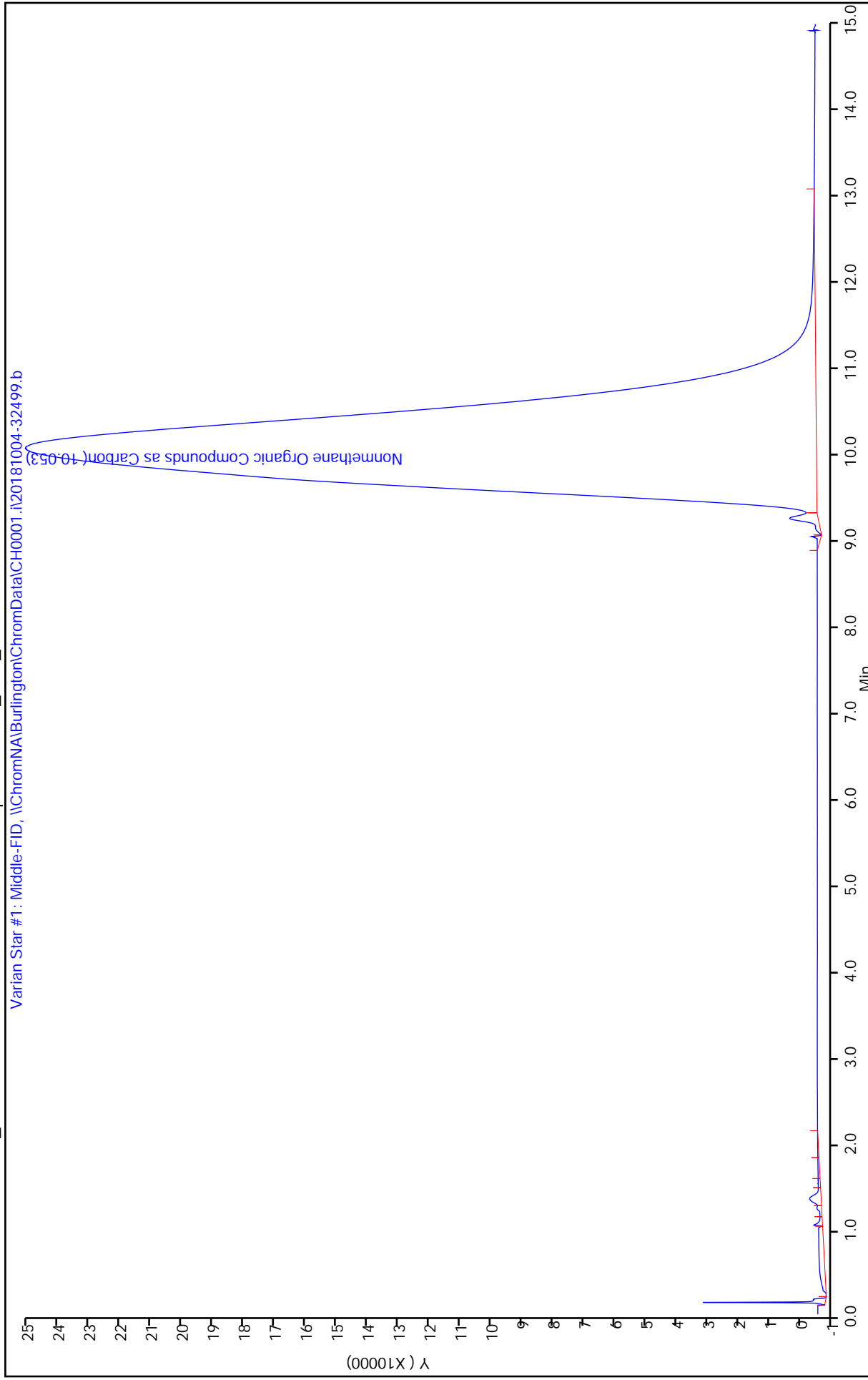
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCV 200-135389/1 Calibration Date: 10/16/2018 11:40  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccv20181016a.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	16648		696	750	-7.5	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25cccv20181016a.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 16-Oct-2018 11:40:22 ALS Bottle#: 0 Worklist Smp#: 1  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv20181016a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:42 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.038	9.908	0.130	12485731	750.0	693.8	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25cccv20181016b.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 16-Oct-2018 11:56:31 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv20181016b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:44 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.050	9.908	0.142	12561002	750.0	698.0	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25cccv20181016c.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 16-Oct-2018 12:13:02 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv20181016c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.067	9.908	0.159	12544800	750.0	697.1	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccv20181016a-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccv20181016b-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccv20181016c-135302-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12485731	12561002	12544800	12530511	0.36

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	693.85	698.03	697.13	696.33	0.36

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25cccv20181016a.d

Injection Date: 16-Oct-2018 11:40:22

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 1

Client ID:

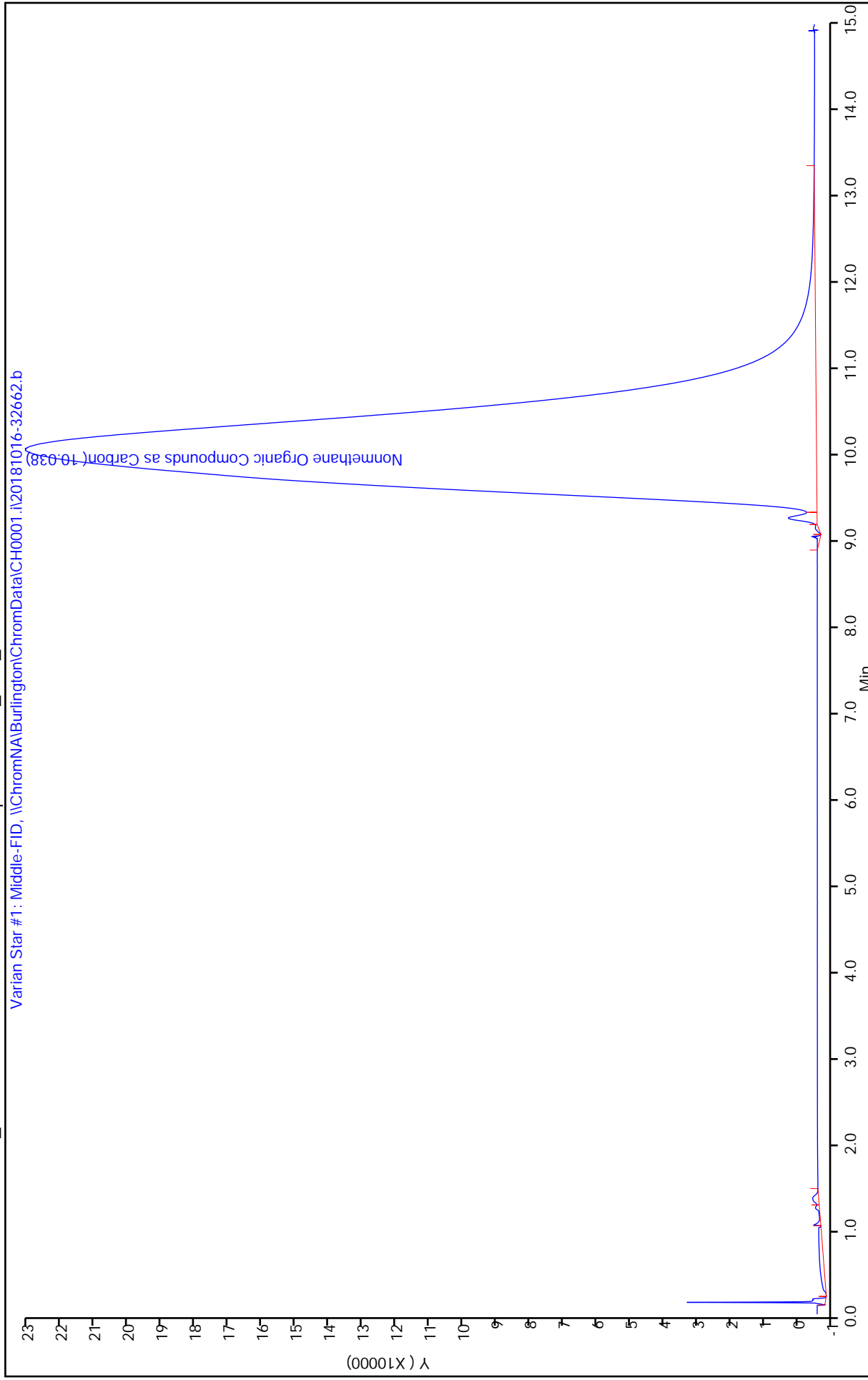
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 17-Oct-2018 14:23:45

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25cccv20181016b.d

Injection Date: 16-Oct-2018 11:56:31

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 2

Client ID:

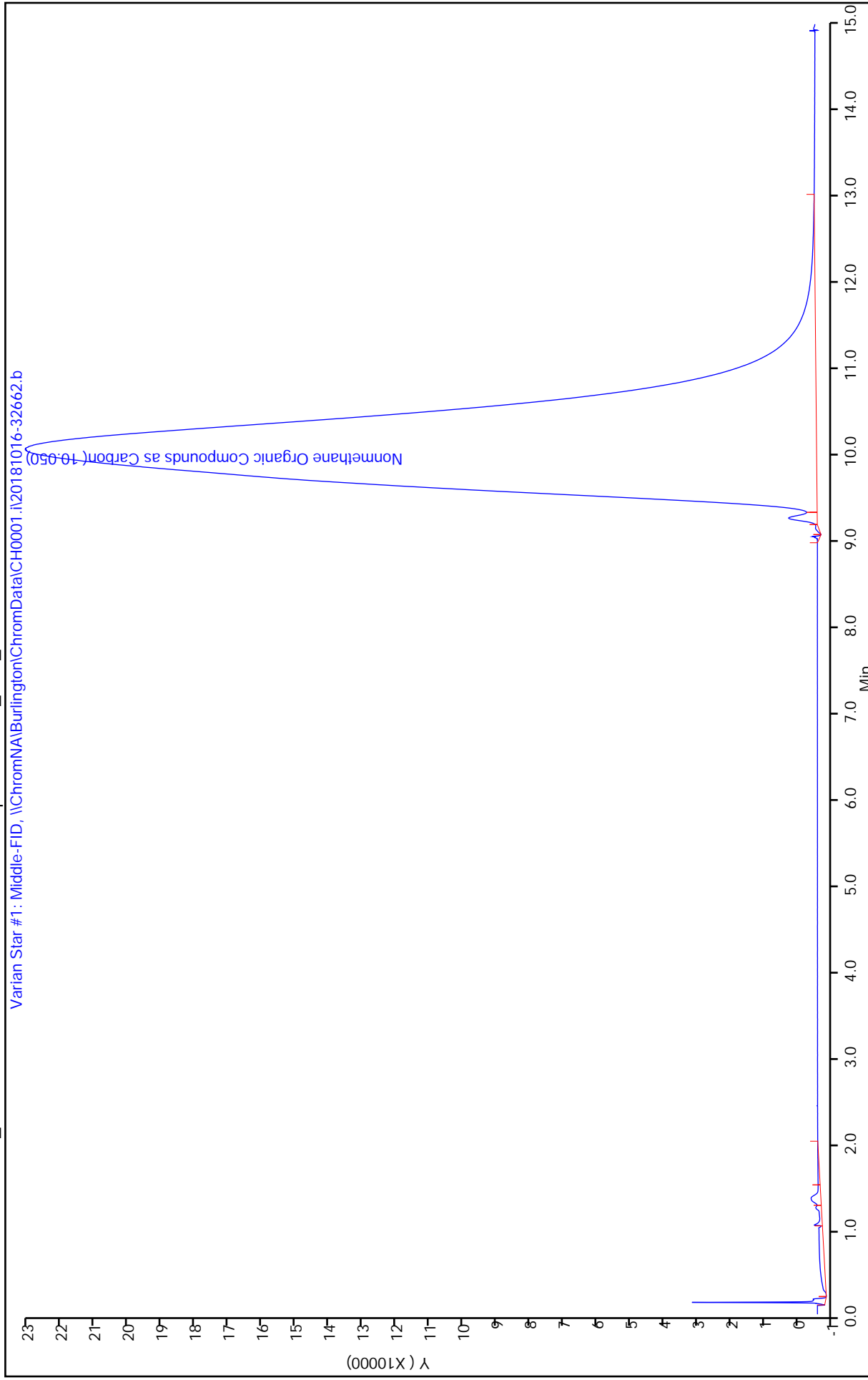
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25cccv20181016c.d

Injection Date: 16-Oct-2018 12:13:02

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 3

Client ID:

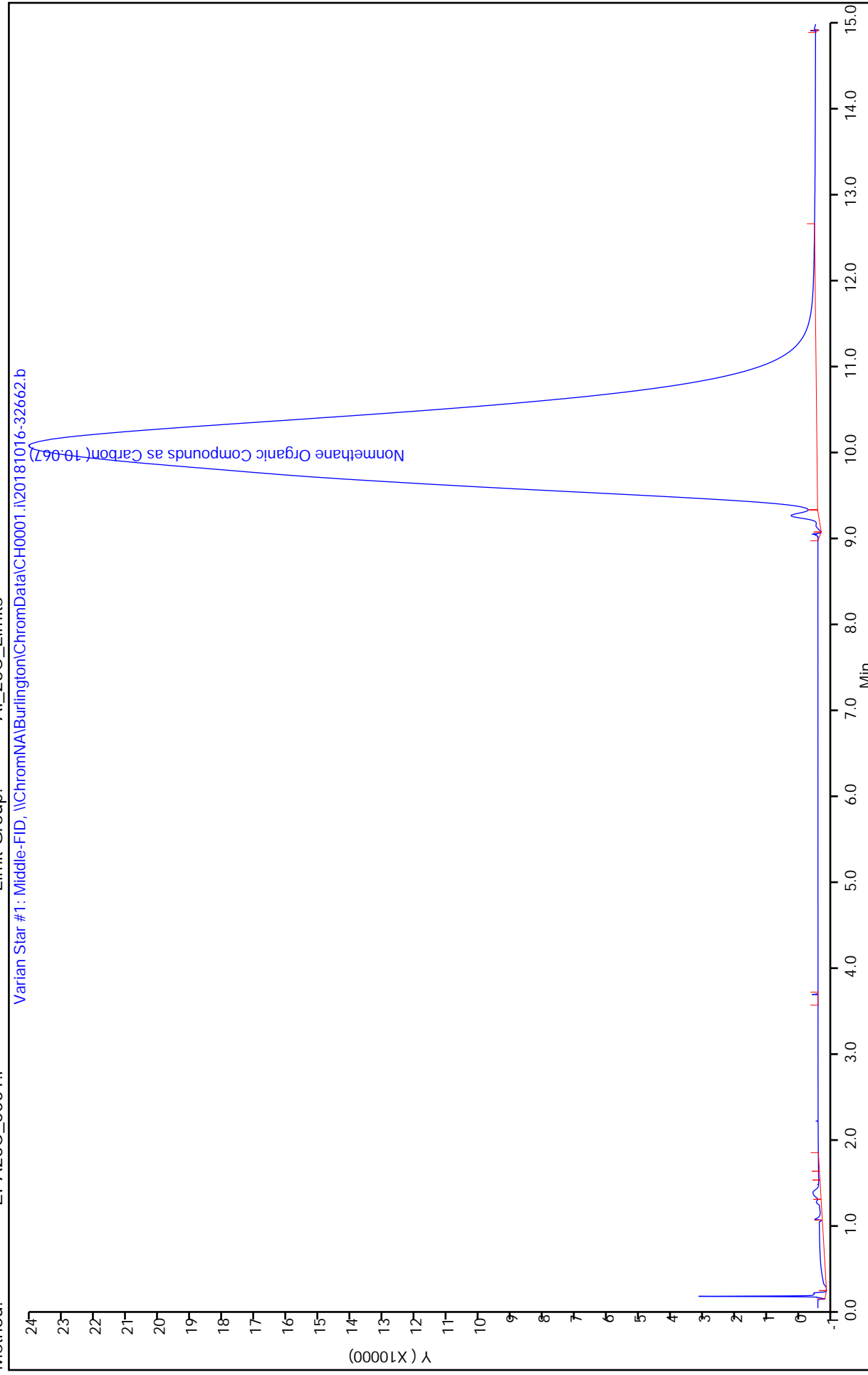
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCVC 200-135389/5 Calibration Date: 10/17/2018 10:24  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccvc20181017c.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	14887		620	750	-17.3*	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017c.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 17-Oct-2018 10:24:35 ALS Bottle#: 0 Worklist Smp#: 37  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181017c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:57 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.978	9.908	0.070	11223675	750.0	623.7	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017d.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 17-Oct-2018 10:40:38 ALS Bottle#: 0 Worklist Smp#: 38  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181017d  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:58 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.010	9.908	0.102	11164605	750.0	620.4	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017e.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 17-Oct-2018 10:56:40 ALS Bottle#: 0 Worklist Smp#: 39  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181017e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:59 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.048	9.908	0.140	11106672	750.0	617.2	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccvc20181017c-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181017d-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181017e-135302-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	11223675	11164605	11106672	11164984	0.53

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	623.71	620.43	617.21	620.45	0.53

Report Date: 17-Oct-2018 14:23:57

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvcv20181017c.d

Injection Date: 17-Oct-2018 10:24:35

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 37

Client ID:

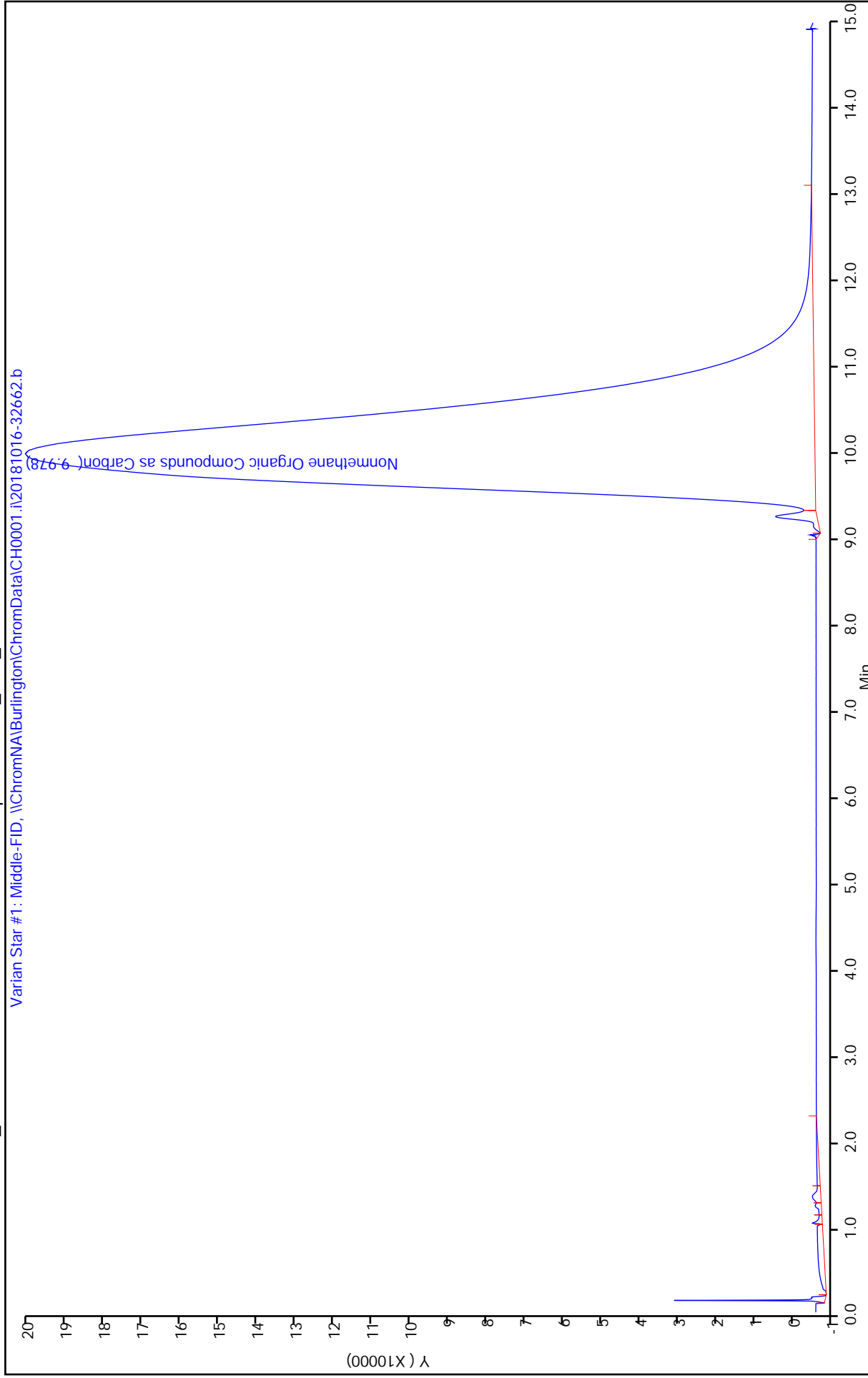
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 17-Oct-2018 14:23:58

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvcv20181017d.d

Injection Date: 17-Oct-2018 10:40:38

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 38

Client ID:

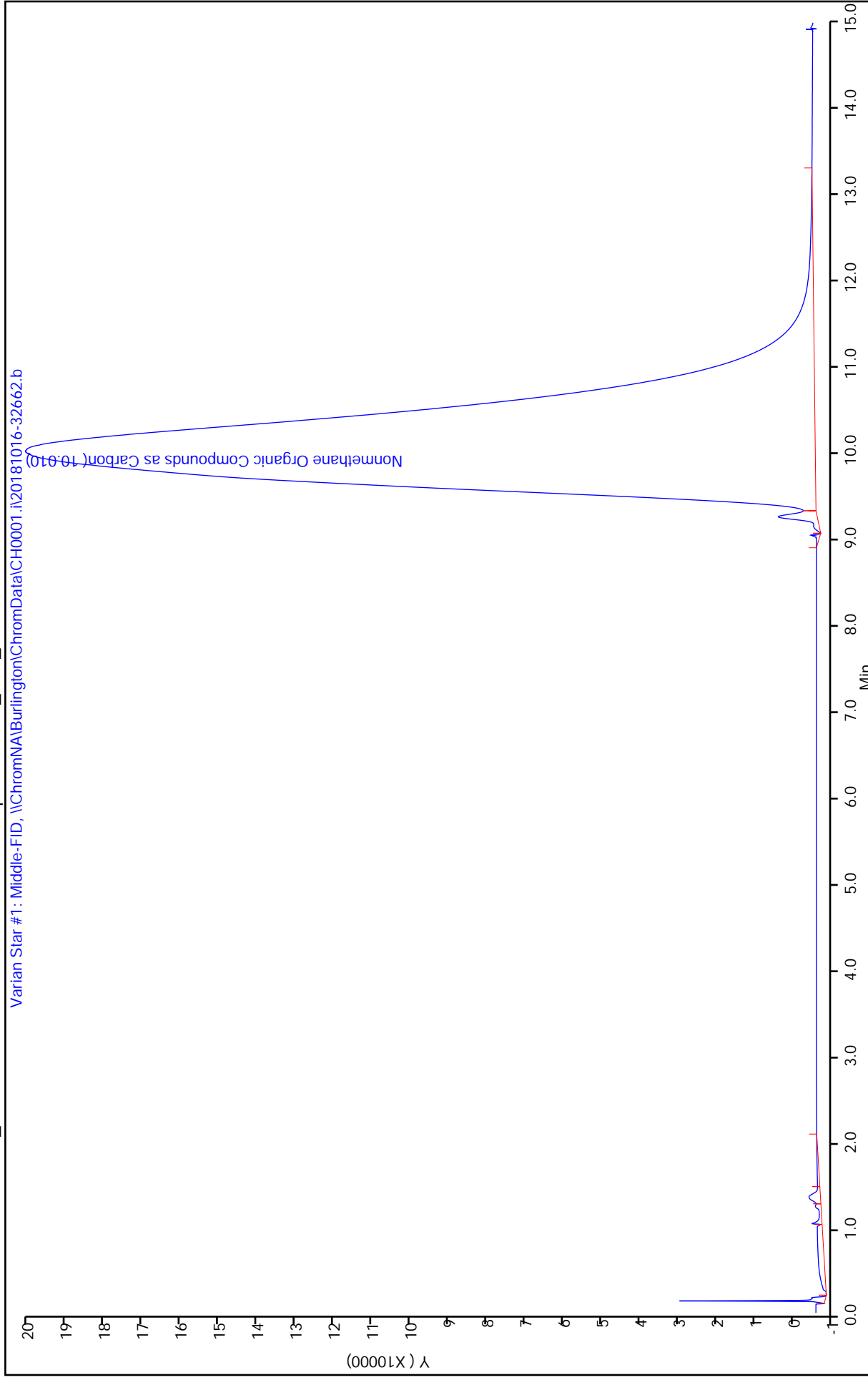
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 17-Oct-2018 14:23:59

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvcv20181017e.d

Injection Date: 17-Oct-2018 10:56:40

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 39

Client ID:

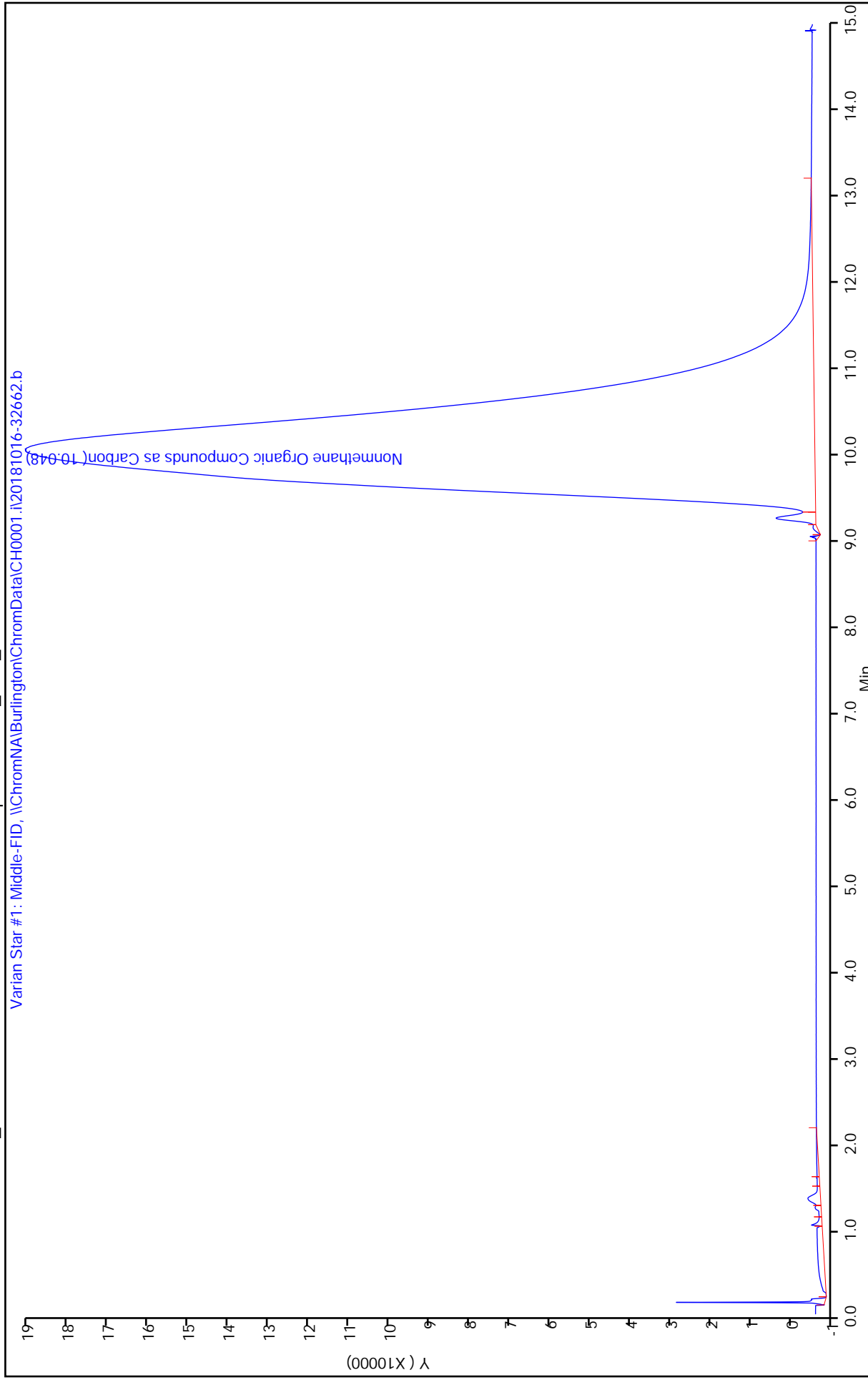
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Lab Sample ID: CCVC 200-135389/6 Calibration Date: 10/17/2018 13:07  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccvc20181017h.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	17201		717	750	-4.4	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017h.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 17-Oct-2018 13:07:28 ALS Bottle#: 0 Worklist Smp#: 40  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181017h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:24:00 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.983	9.908	0.075	12767935	750.0	709.5	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017i.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 17-Oct-2018 13:23:36 ALS Bottle#: 0 Worklist Smp#: 41  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181017i  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:24:01 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.002	9.908	0.094	12941376	750.0	719.2	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017j.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 17-Oct-2018 13:39:41 ALS Bottle#: 0 Worklist Smp#: 42  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181017j  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:24:02 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.022	9.908	0.114	12992316	750.0	722.0	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccvc20181017h-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181017i-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181017j-135302-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12767935	12941376	12992316	12900542.33	1.03

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	709.53	719.17	722	716.9	1.03

Report Date: 17-Oct-2018 14:24:00

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvcv20181017h.d

Injection Date: 17-Oct-2018 13:07:28

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 40

Client ID:

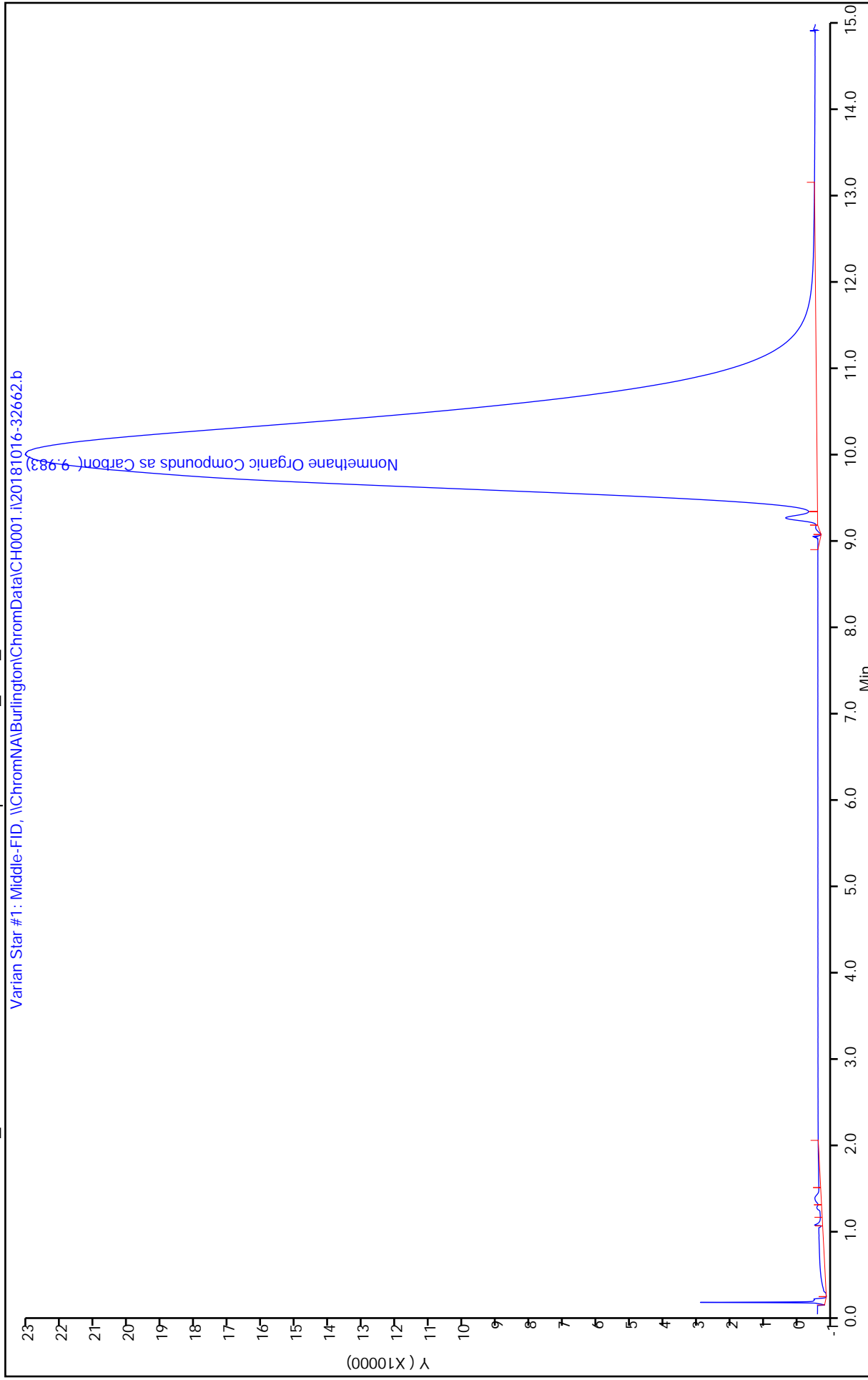
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvc20181017i.d

Injection Date: 17-Oct-2018 13:23:36

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 41

Client ID:

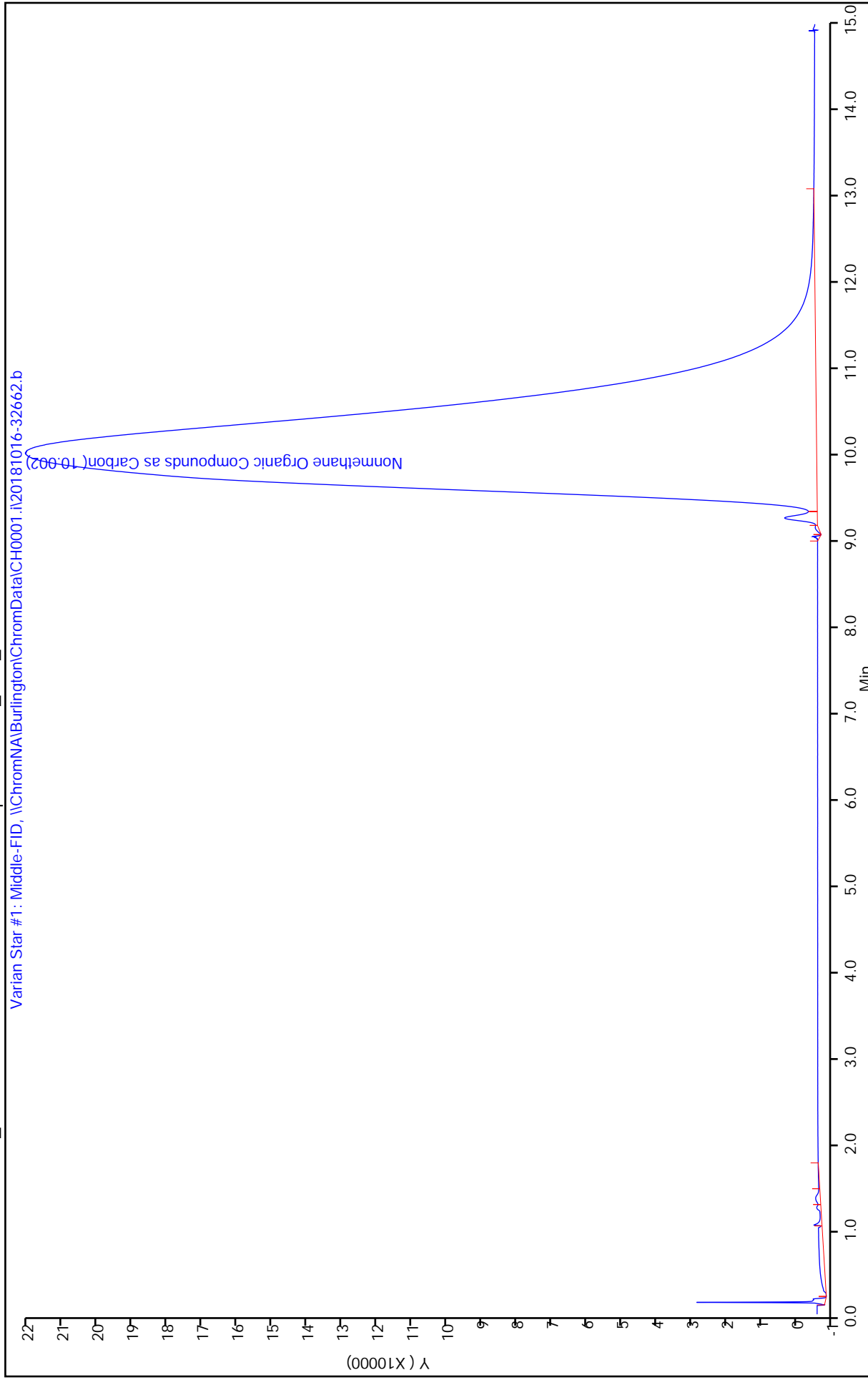
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25ccvcv20181017j.d

Injection Date: 17-Oct-2018 13:39:41

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 42

Client ID:

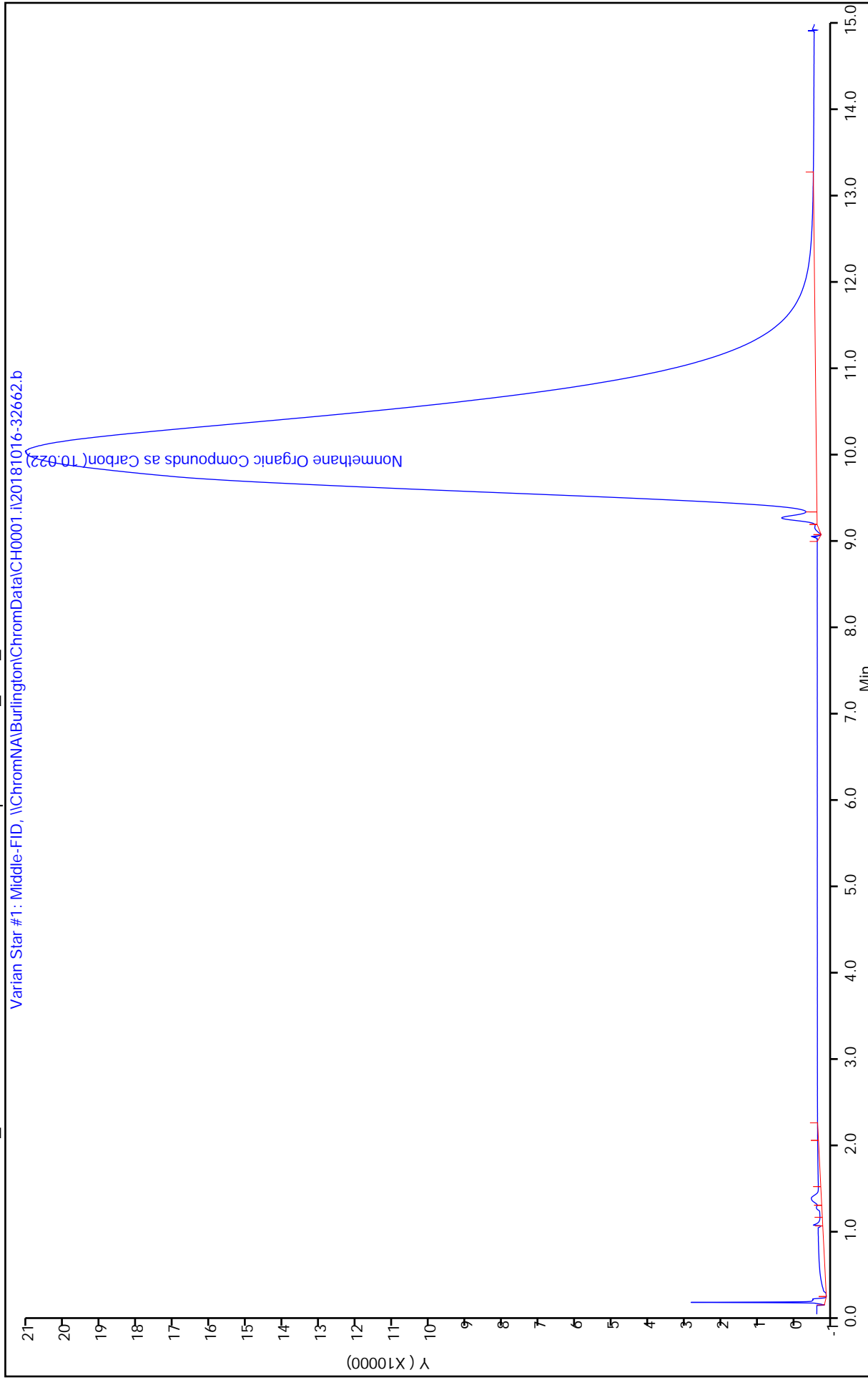
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-135207/3  
 Matrix: Air Lab File ID: mb20181004a.d-avg  
 Analysis Method: EPA 25C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/04/2018 19:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	6.0	U	6.0	6.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004a.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 04-Oct-2018 19:09:36 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181004a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:33:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.275	9.908	0.367	10305		0.5727	7M

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004b.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 04-Oct-2018 19:25:38 ALS Bottle#: 0 Worklist Smp#: 8  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181004b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:34:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.333	9.908	0.425	8166		0.4538	7M

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004c.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 04-Oct-2018 19:41:40 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181004c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:34:30

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.367	9.908	0.459	10760		0.5979	7M

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\mb20181004a-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\mb20181004b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\mb20181004c-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

```
-----  
Analyte           Resp1      Resp2      Resp3      Avg Resp   RSD  
Nonmethane Orga   10305     8166       10760      9743.67   16.19*  
* - RSD exceeds maximum RSD of 5  
-----
```

```
-----  
Analyte           Conc1      Conc2      Conc3      Avg Conc   RSD  
Nonmethane Orga   0.57      0.45       0.6        0.54     16.19*  
* - RSD exceeds maximum RSD of 5  
-----
```

Report Date: 13-Oct-2018 14:46:27

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004a.d

Injection Date: 04-Oct-2018 19:09:36

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 7

Client ID:

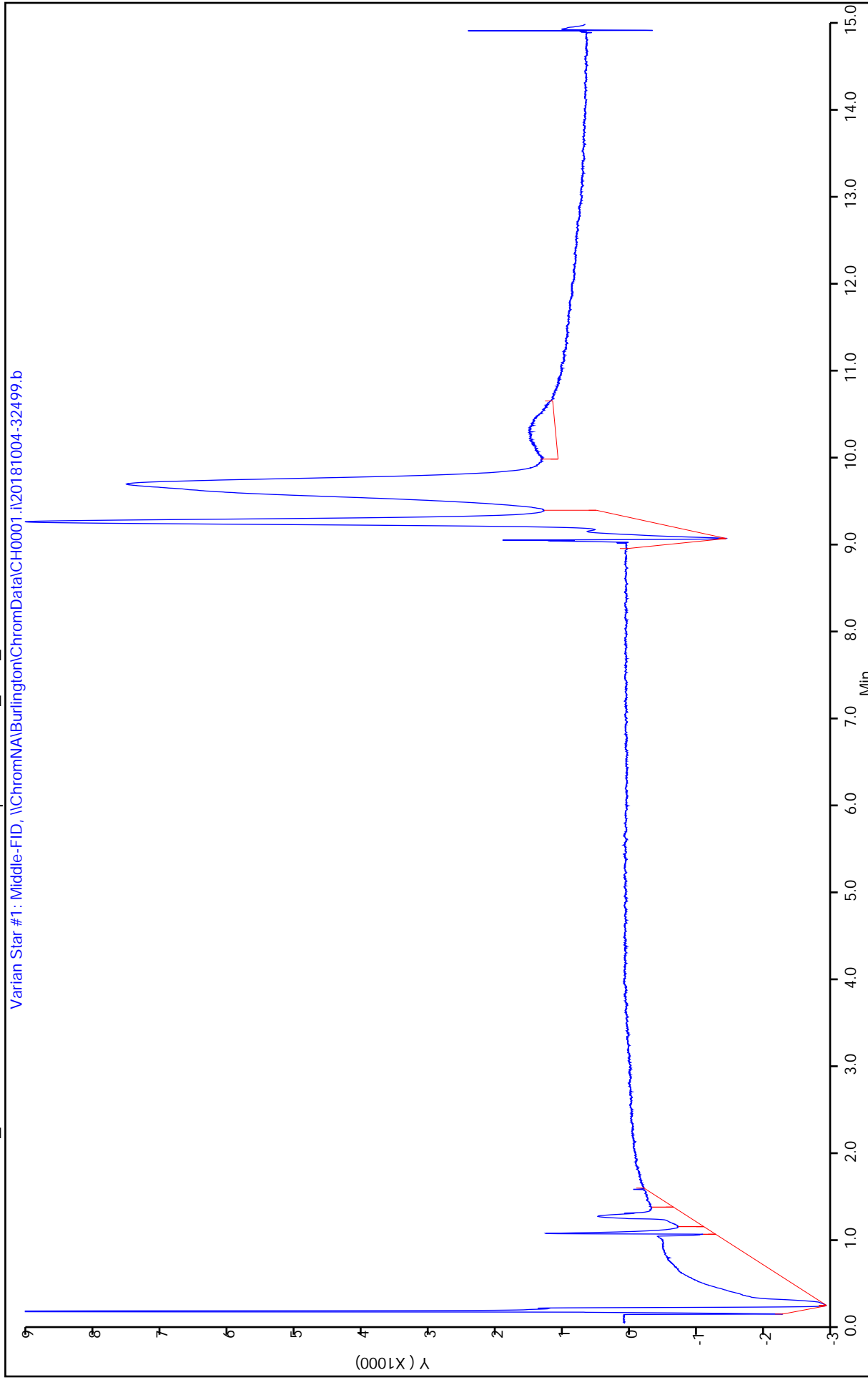
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:46:28

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004b.d

Injection Date: 04-Oct-2018 19:25:38

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 8

Client ID:

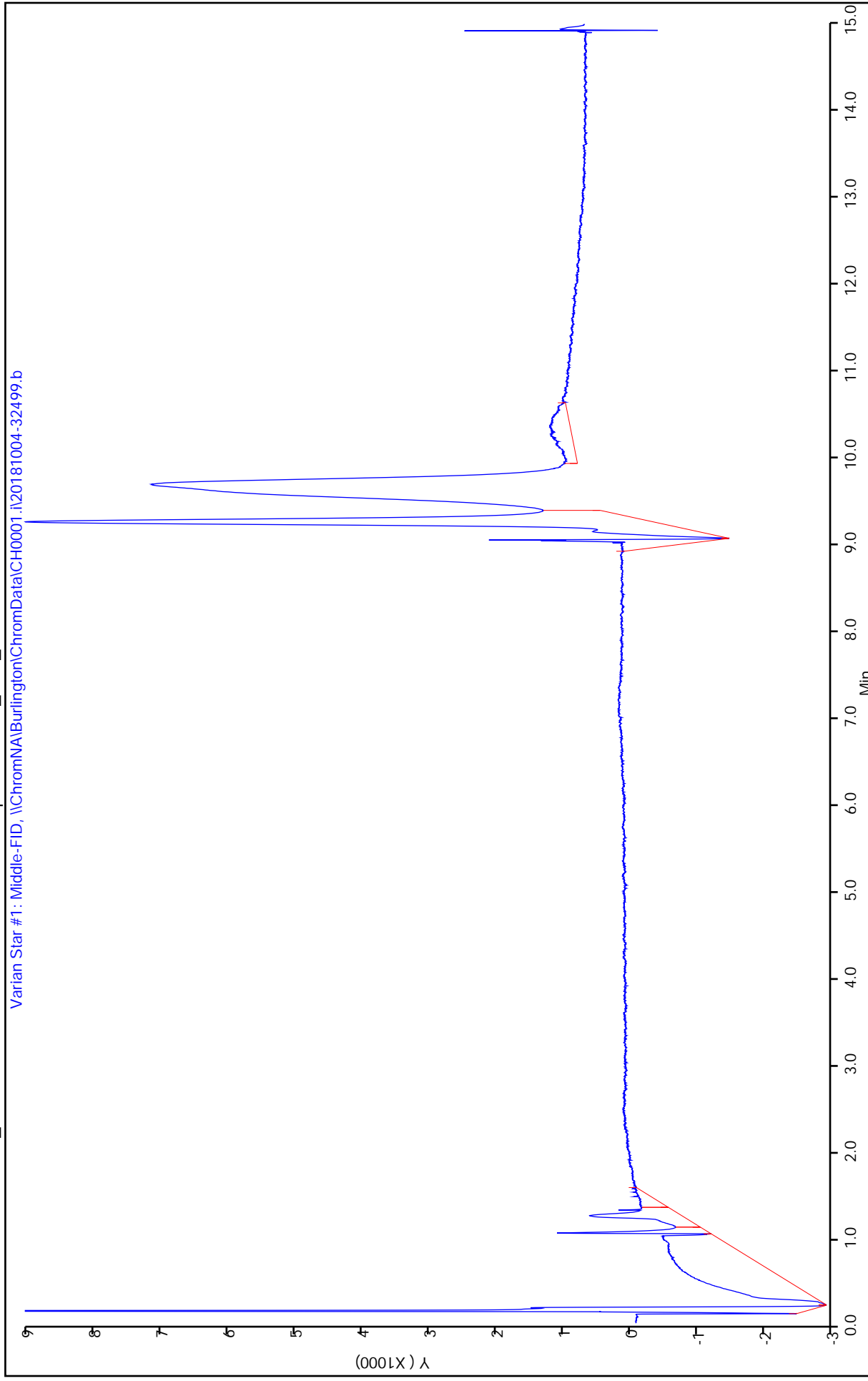
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 13-Oct-2018 14:46:32

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004c.d

Injection Date: 04-Oct-2018 19:41:40

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 9

Client ID:

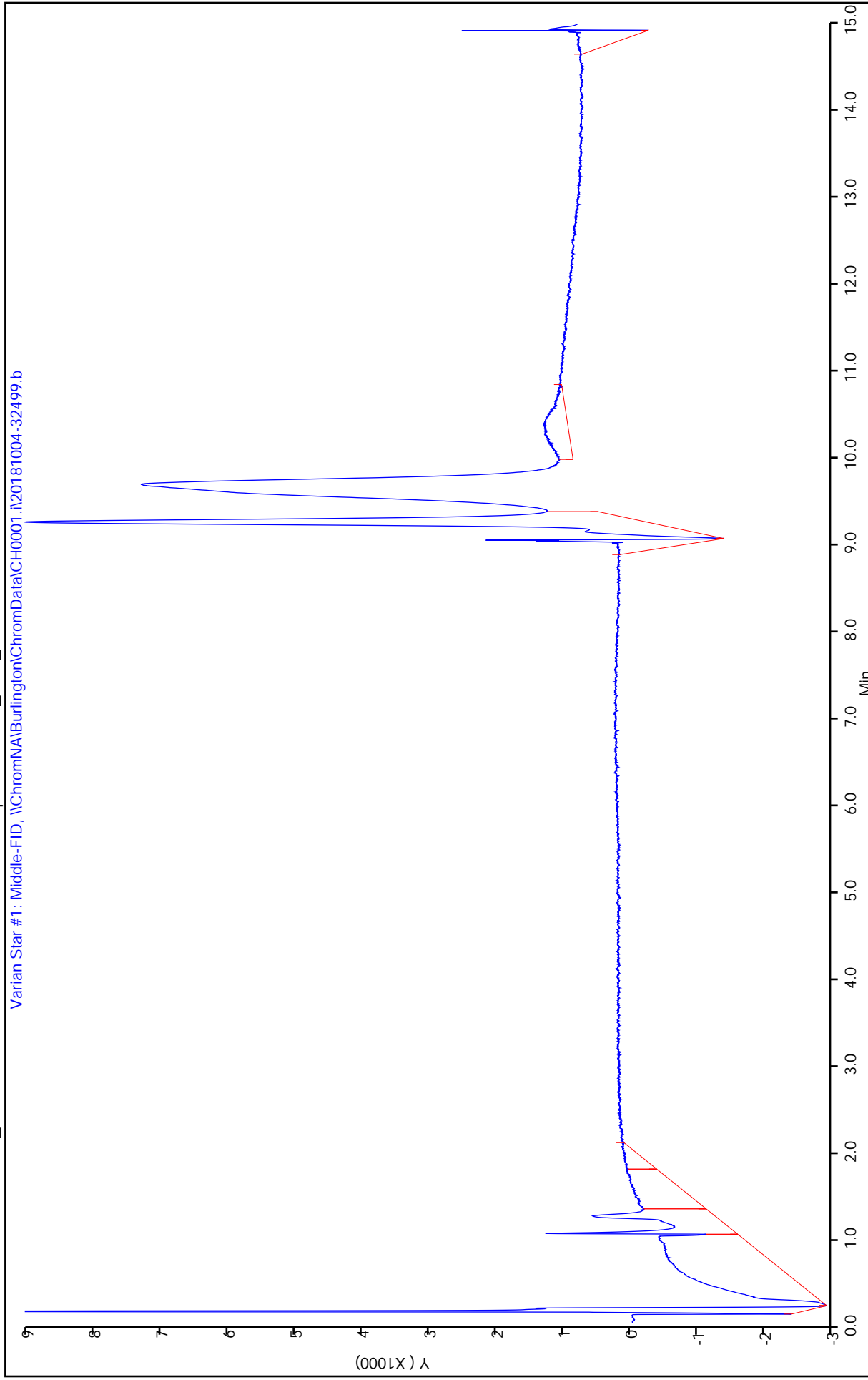
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

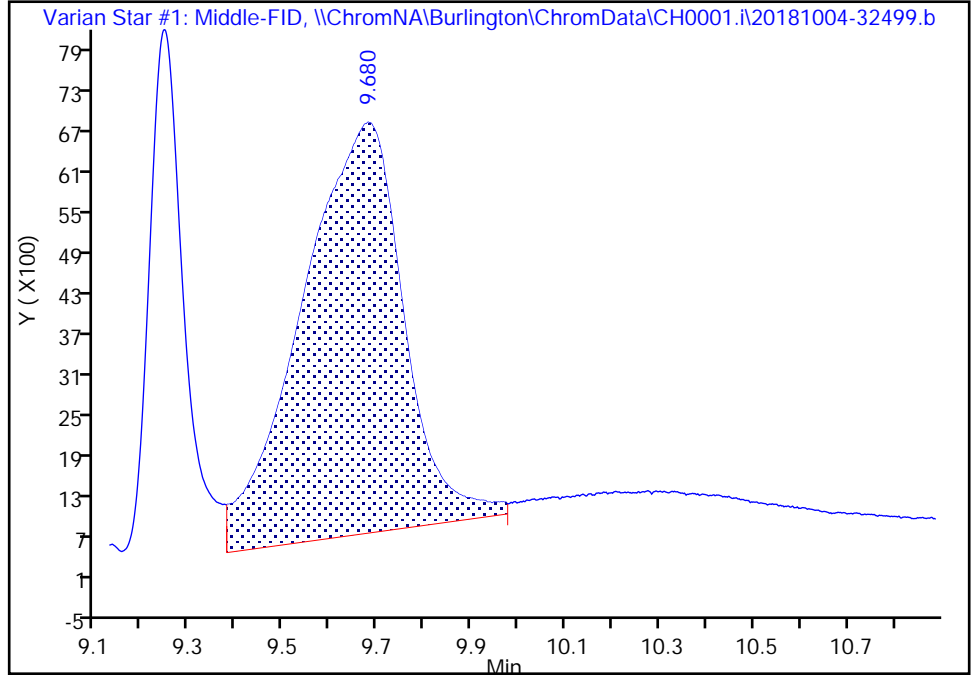
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004a.d  
Injection Date: 04-Oct-2018 19:09:36 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 7  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

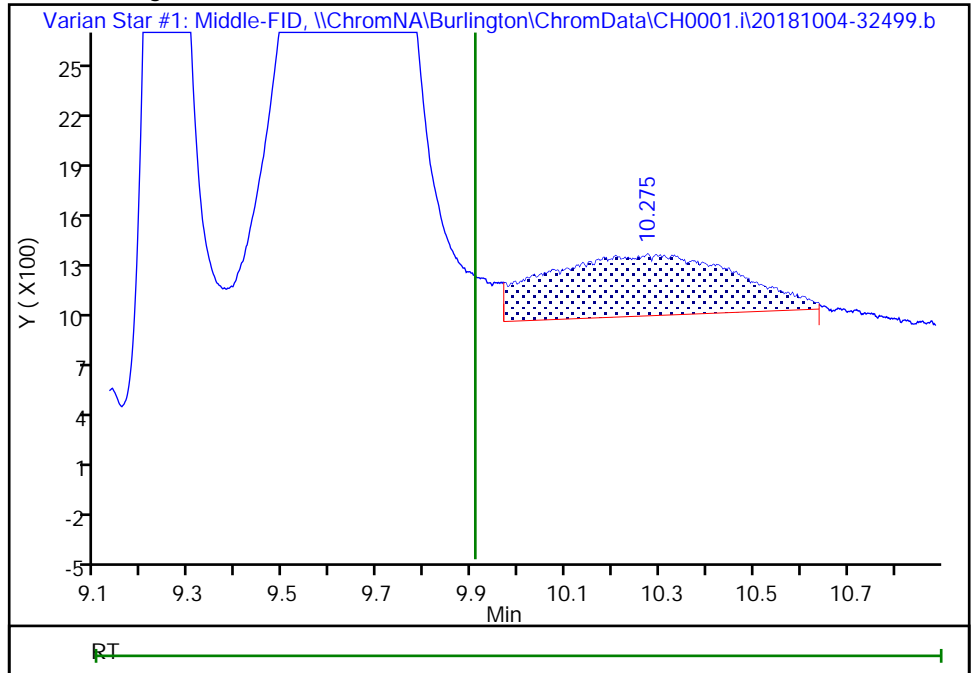
RT: 9.68  
Area: 92869  
Amount: 5.160829  
Amount Units: ppm-C

Processing Integration Results



RT: 10.28  
Area: 10305  
Amount: 0.572660  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 14:33:44  
Audit Action: Manually Integrated

TestAmerica Burlington

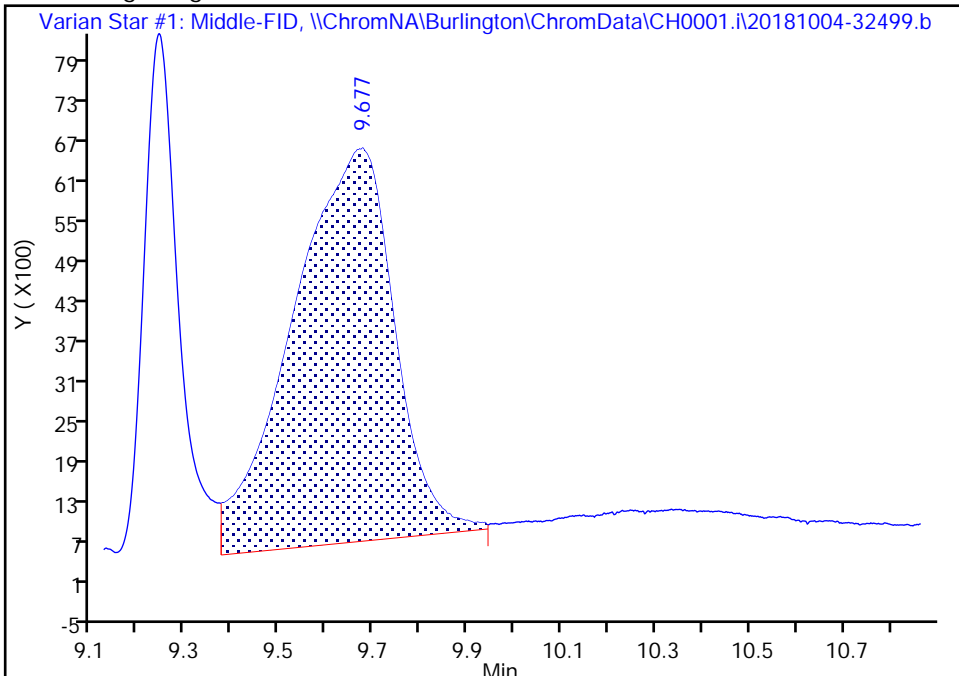
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004b.d  
Injection Date: 04-Oct-2018 19:25:38 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 8  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

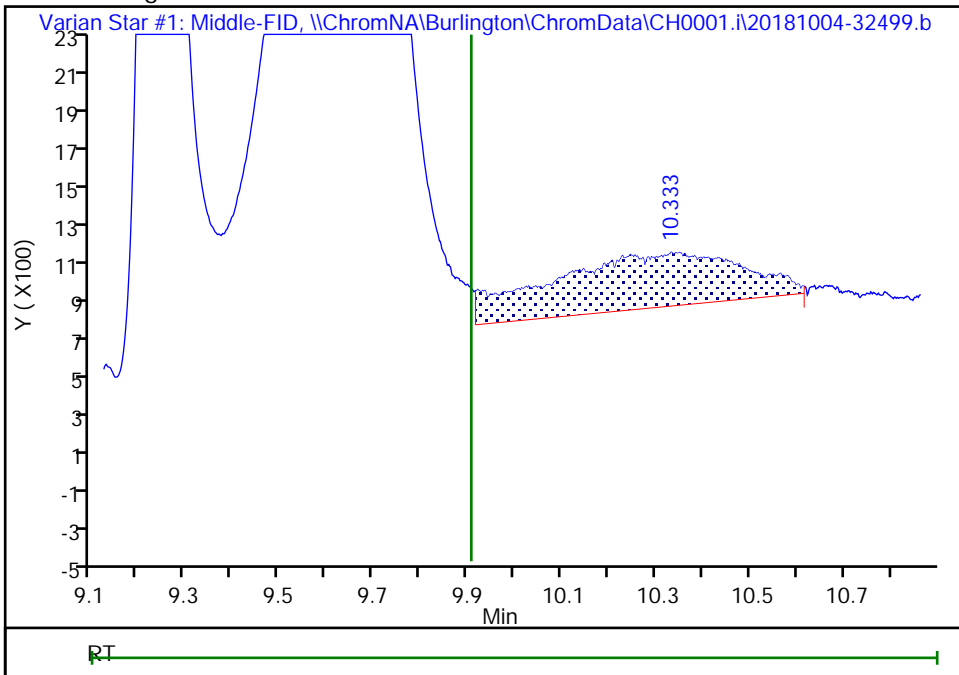
RT: 9.68  
Area: 89502  
Amount: 4.973721  
Amount Units: ppm-C

Processing Integration Results



RT: 10.33  
Area: 8166  
Amount: 0.453793  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

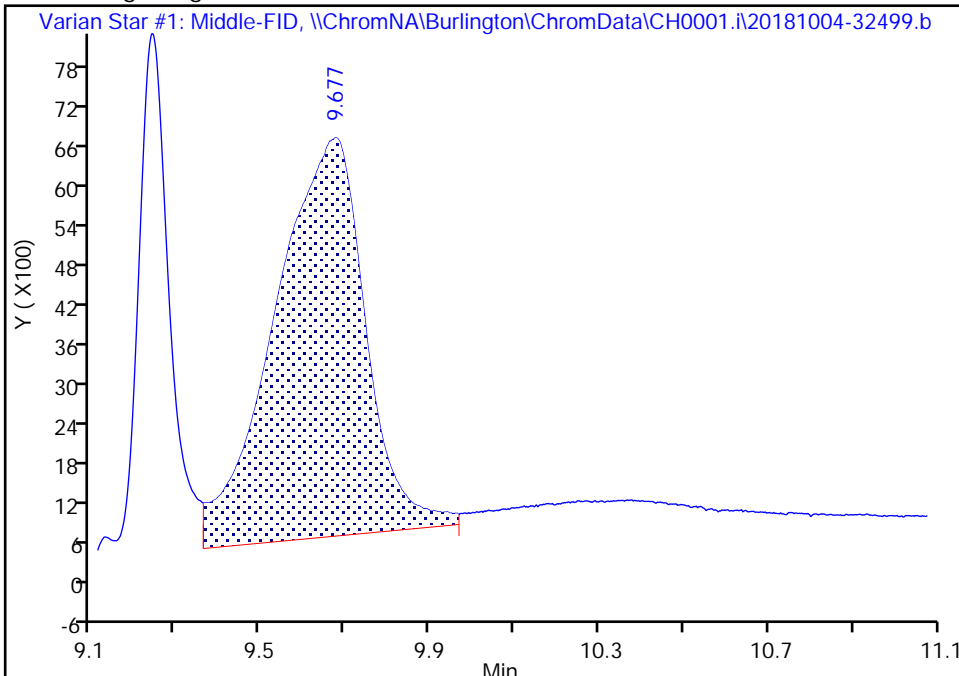
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\mb20181004c.d  
Injection Date: 04-Oct-2018 19:41:40 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

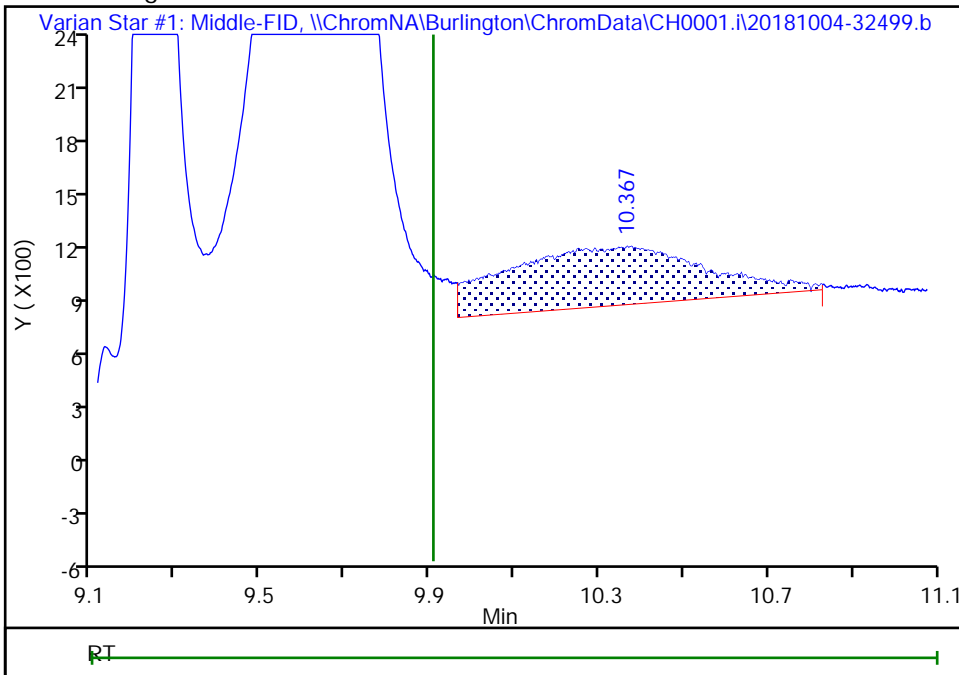
RT: 9.68  
Area: 90610  
Amount: 5.035294  
Amount Units: ppm-C

Processing Integration Results



RT: 10.37  
Area: 10760  
Amount: 0.597945  
Amount Units: ppm-C

Manual Integration Results





FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-135389/3  
 Matrix: Air Lab File ID: mb20181016a.d-avg  
 Analysis Method: EPA 25C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/16/2018 13:17  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135389 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	6.0	U	6.0	6.0

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016a.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Oct-2018 13:17:17 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181016a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb Date: 17-Oct-2018 12:02:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.278	9.908	0.370	15438		0.8579	Ma

**QC Flag Legend**

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016b.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Oct-2018 13:33:22 ALS Bottle#: 0 Worklist Smp#: 8  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181016b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb Date: 17-Oct-2018 12:02:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.283	9.908	0.375	11412		0.6342	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016c.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 16-Oct-2018 13:49:27 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181016c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

First Level Reviewer: desjardinsb Date: 17-Oct-2018 12:02:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.330	9.908	0.422	14449		0.8029	Ma

**QC Flag Legend**

Review Flags

- M - Manually Integrated
- a - User Assigned ID

Processing 25C data for files:

z:\ch0001-2hutch\mb20181016a-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\mb20181016b-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\mb20181016c-135302-ai\_25c\_limits-0.txt

Raw Results - NMOC

```
-----  
Analyte           Resp1      Resp2      Resp3      Avg Resp   RSD  
Nonmethane Orga   15438     11412     14449     13766.33  17.1*  
* - RSD exceeds maximum RSD of 5  
-----
```

```
-----  
Analyte           Conc1      Conc2      Conc3      Avg Conc   RSD  
Nonmethane Orga   0.86      0.63      0.8        0.77      17.1*  
* - RSD exceeds maximum RSD of 5  
-----
```

Report Date: 17-Oct-2018 14:23:50

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016a.d

Injection Date: 16-Oct-2018 13:17:17

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 7

Client ID:

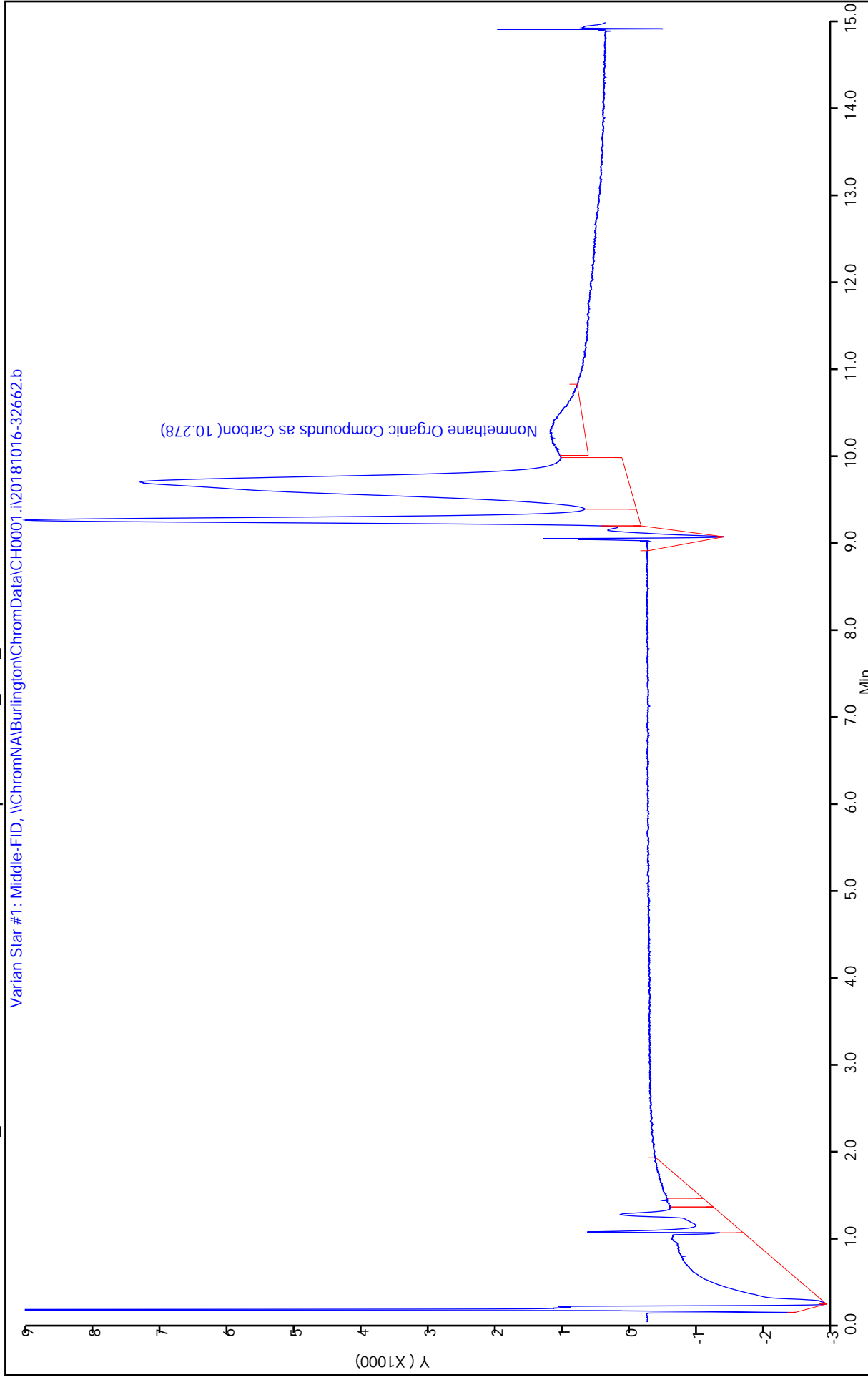
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 17-Oct-2018 14:23:51

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016b.d

Injection Date: 16-Oct-2018 13:33:22

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 8

Client ID:

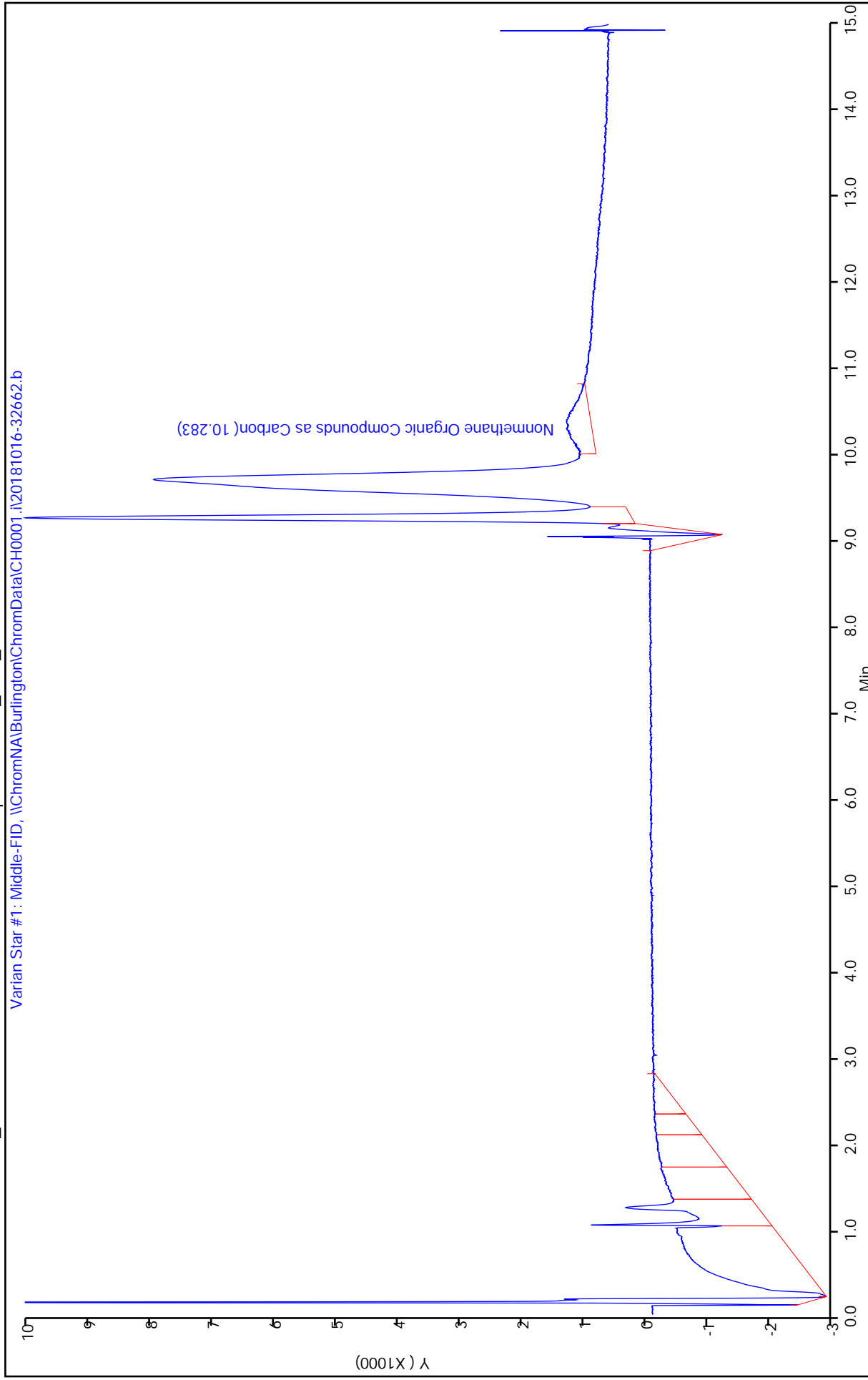
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Varian Star #1: Middle-FID, \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b

Report Date: 17-Oct-2018 14:23:52

Chrom Revision: 2.3 16-Oct-2018 09:58:52

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016c.d

Injection Date: 16-Oct-2018 13:49:27

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 9

Client ID:

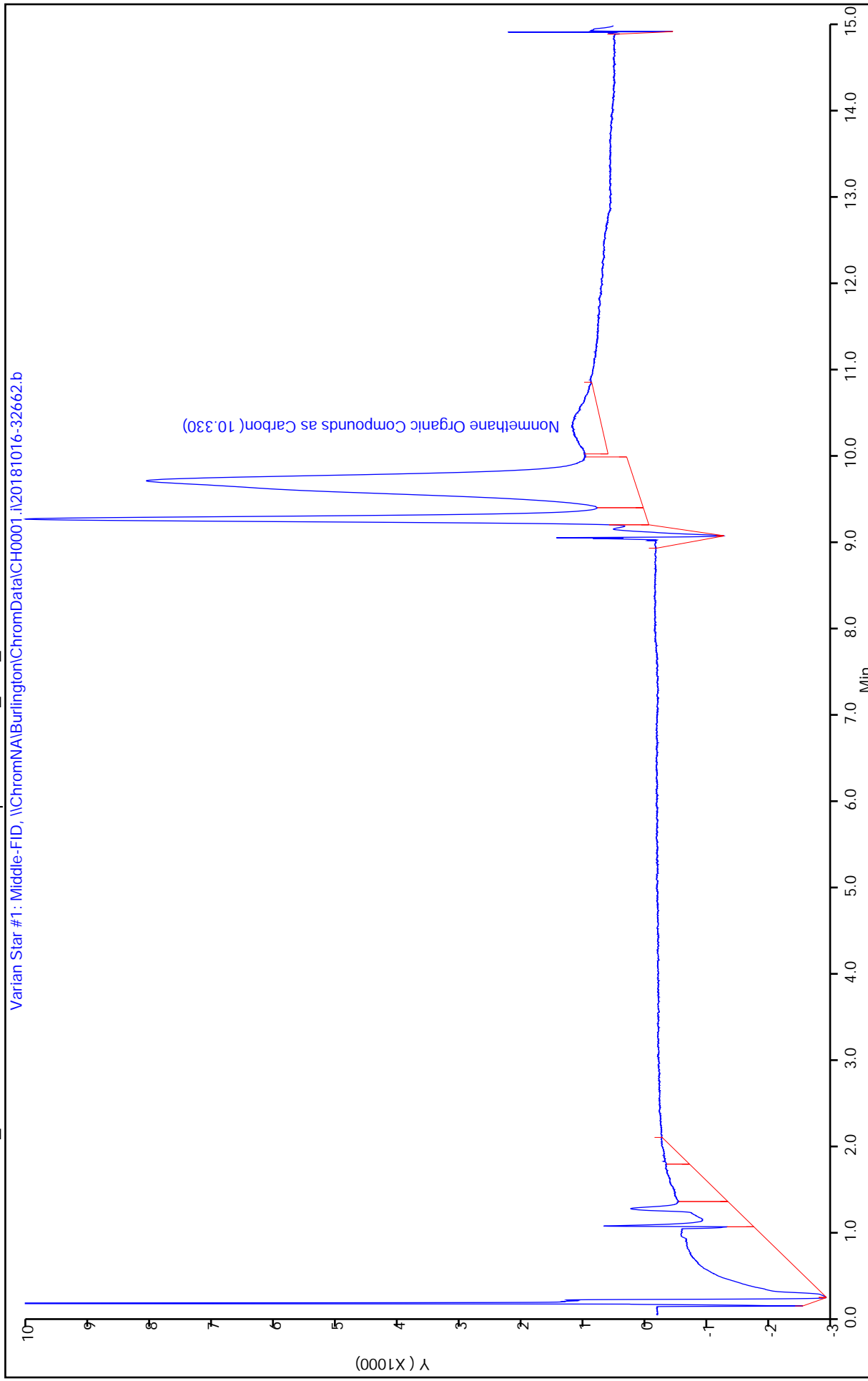
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





TestAmerica Burlington

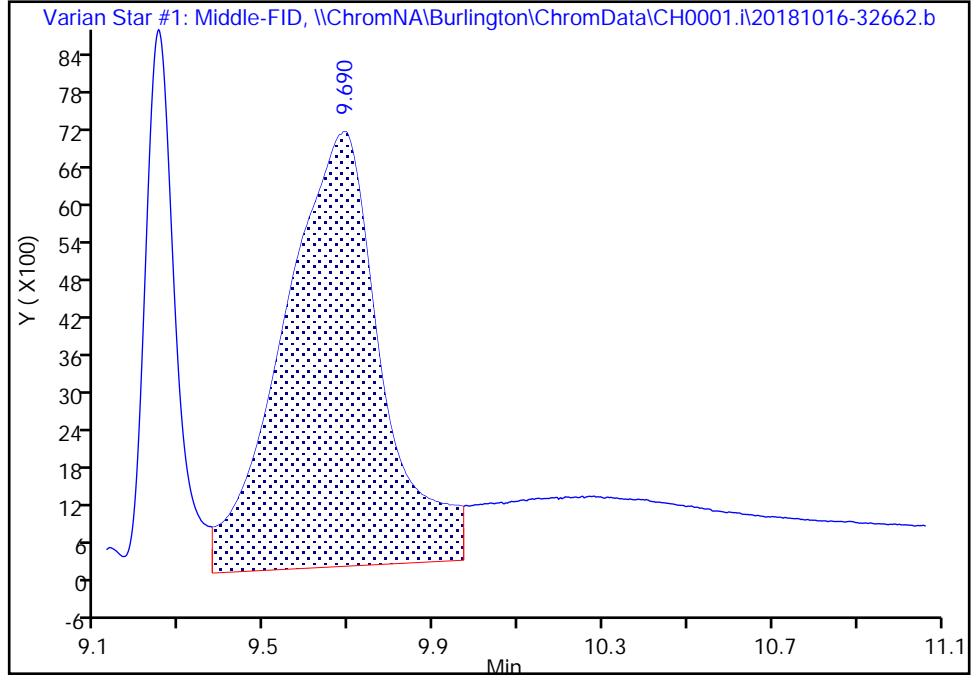
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016a.d  
Injection Date: 16-Oct-2018 13:17:17 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 7  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

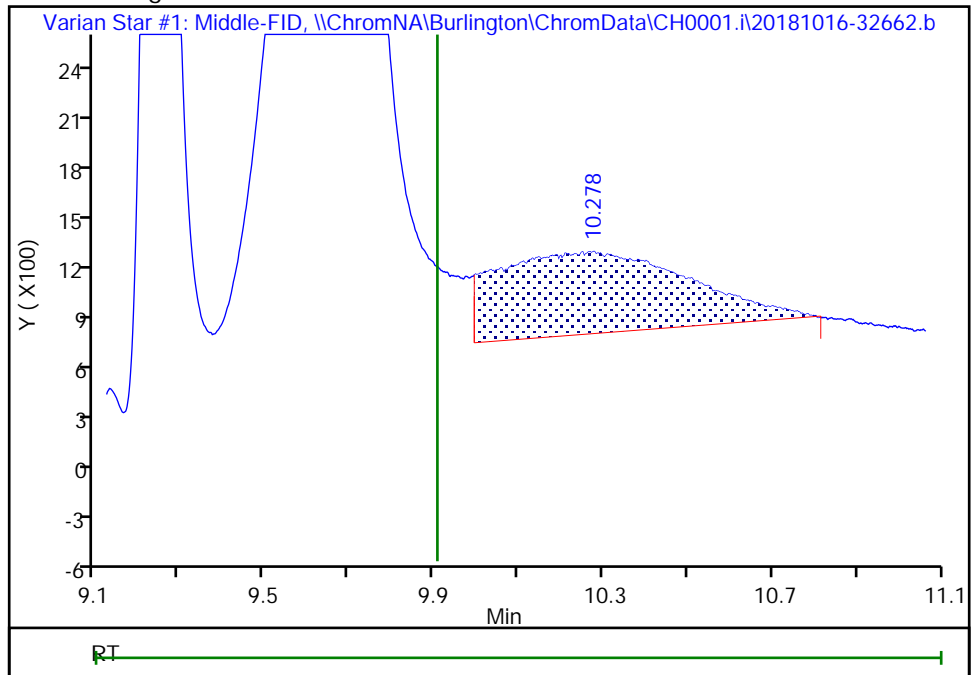
RT: 9.69  
Area: 111686  
Amount: 6.206510  
Amount Units: ppm-C

Processing Integration Results



RT: 10.28  
Area: 15438  
Amount: 0.857906  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 17-Oct-2018 12:02:05

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Burlington

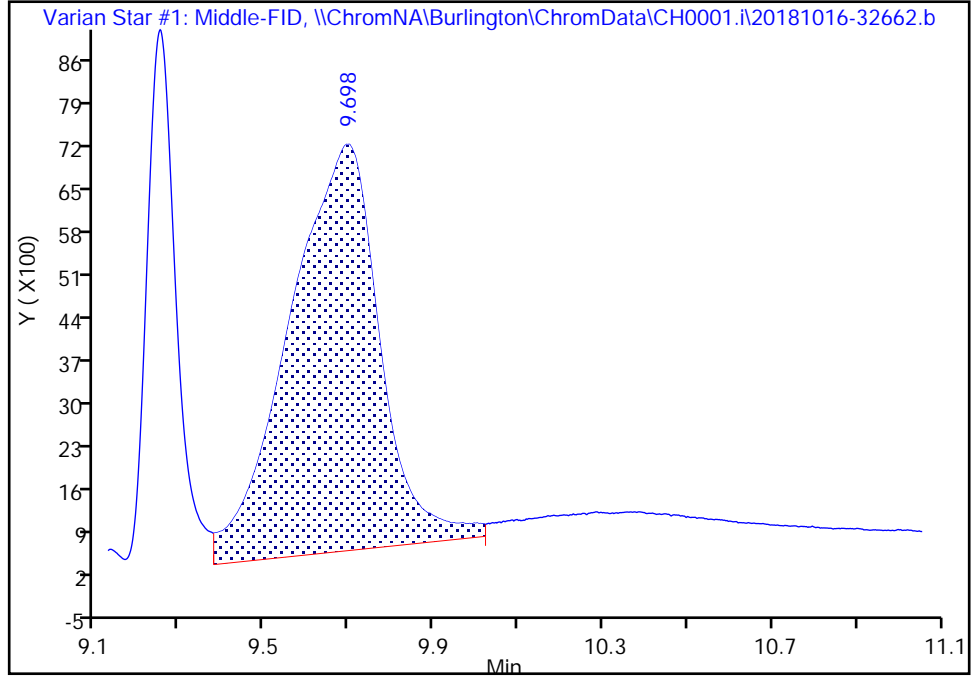
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016b.d  
Injection Date: 16-Oct-2018 13:33:22 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 8  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

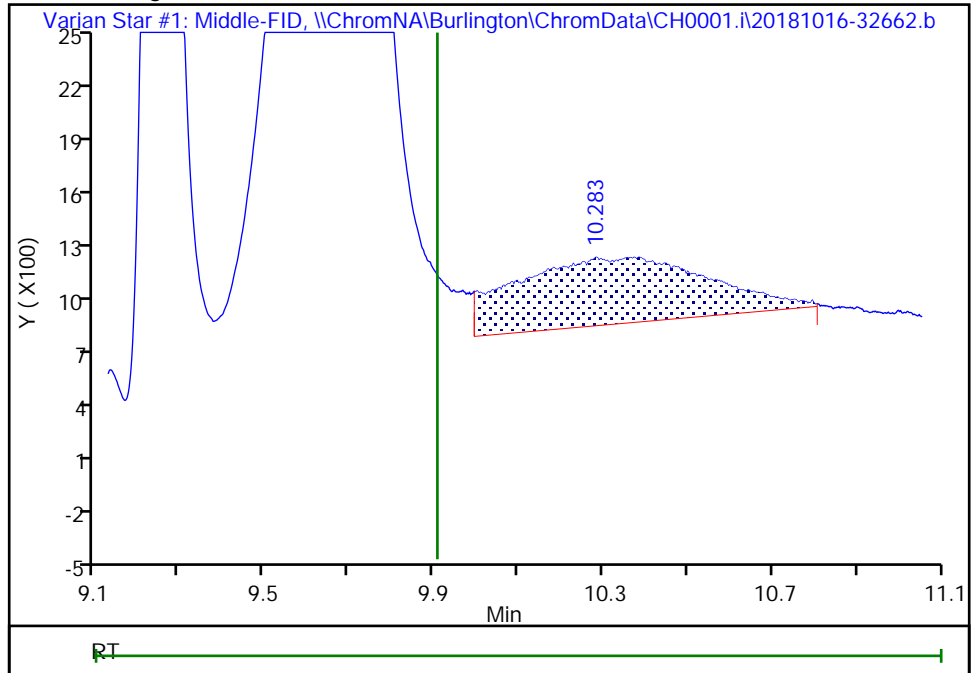
RT: 9.70  
Area: 98613  
Amount: 5.480029  
Amount Units: ppm-C

Processing Integration Results



RT: 10.28  
Area: 11412  
Amount: 0.634177  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 17-Oct-2018 12:02:23  
Audit Action: Manually Integrated

TestAmerica Burlington

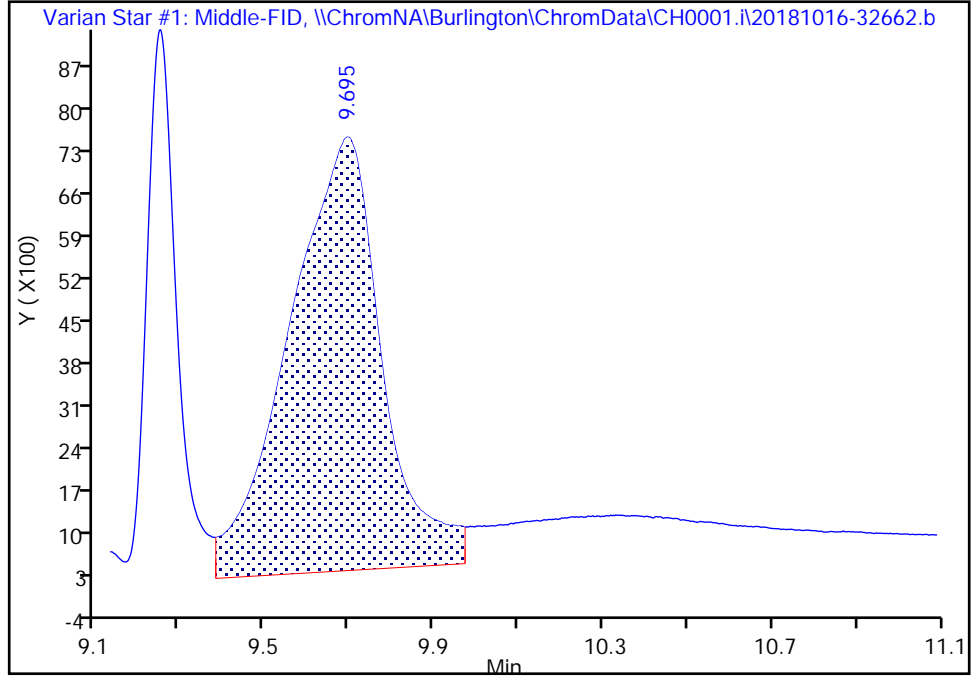
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\mb20181016c.d  
Injection Date: 16-Oct-2018 13:49:27 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

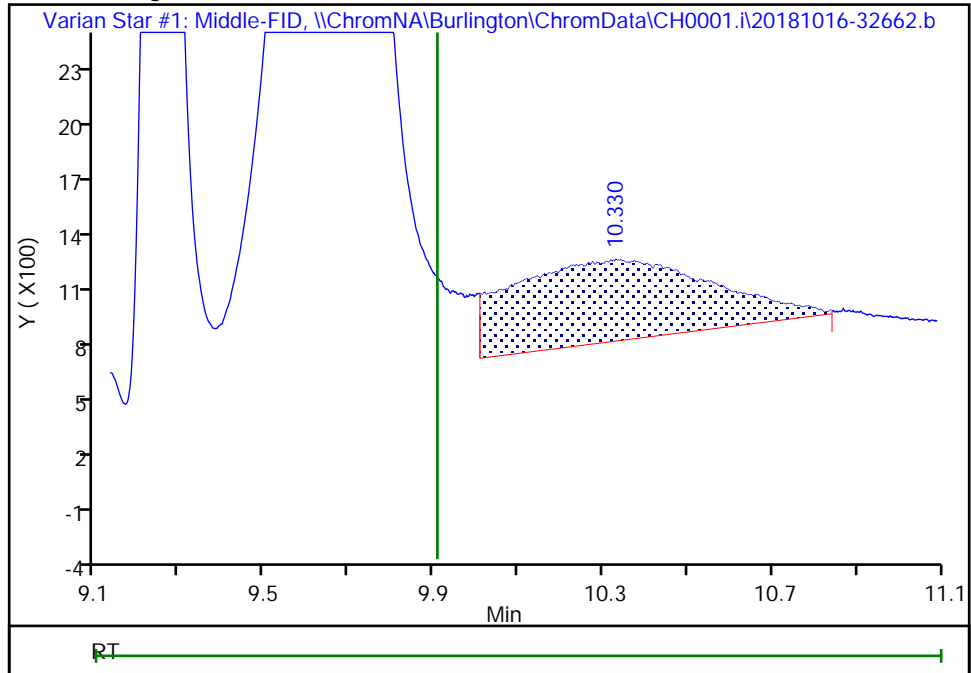
RT: 9.70  
Area: 109349  
Amount: 6.076640  
Amount Units: ppm-C

Processing Integration Results



RT: 10.33  
Area: 14449  
Amount: 0.802946  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 17-Oct-2018 12:02:47

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-135207/2  
 Matrix: Air Lab File ID: 25clcs20181004a.d-avg  
 Analysis Method: EPA 25C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/04/2018 18:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135207 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	736		6.0	6.0

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25clcs20181004a.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 04-Oct-2018 18:21:22 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs20181004a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:33:13

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun 10.048 9.908 0.140 13089102 750.0 727.4

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25clcs20181004b.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 04-Oct-2018 18:37:27 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs20181004b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:33:16

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.058	9.908	0.150	13249357	750.0	736.3	
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Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\25clcs20181004c.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 04-Oct-2018 18:53:32 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs20181004c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181004-32499.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 13-Oct-2018 14:46:12 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK035

First Level Reviewer: desjardinsb Date: 13-Oct-2018 14:33:19

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.058	9.908	0.150	13386934	750.0	743.9	
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Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25clcs20181004a-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25clcs20181004b-134861-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25clcs20181004c-134861-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13089102	13249357	13386934	13241797.67	1.15

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	727.38	736.28	743.93	735.86	1.15



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25clcs20181004a.d

Injection Date: 04-Oct-2018 18:21:22

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 4

Client ID:

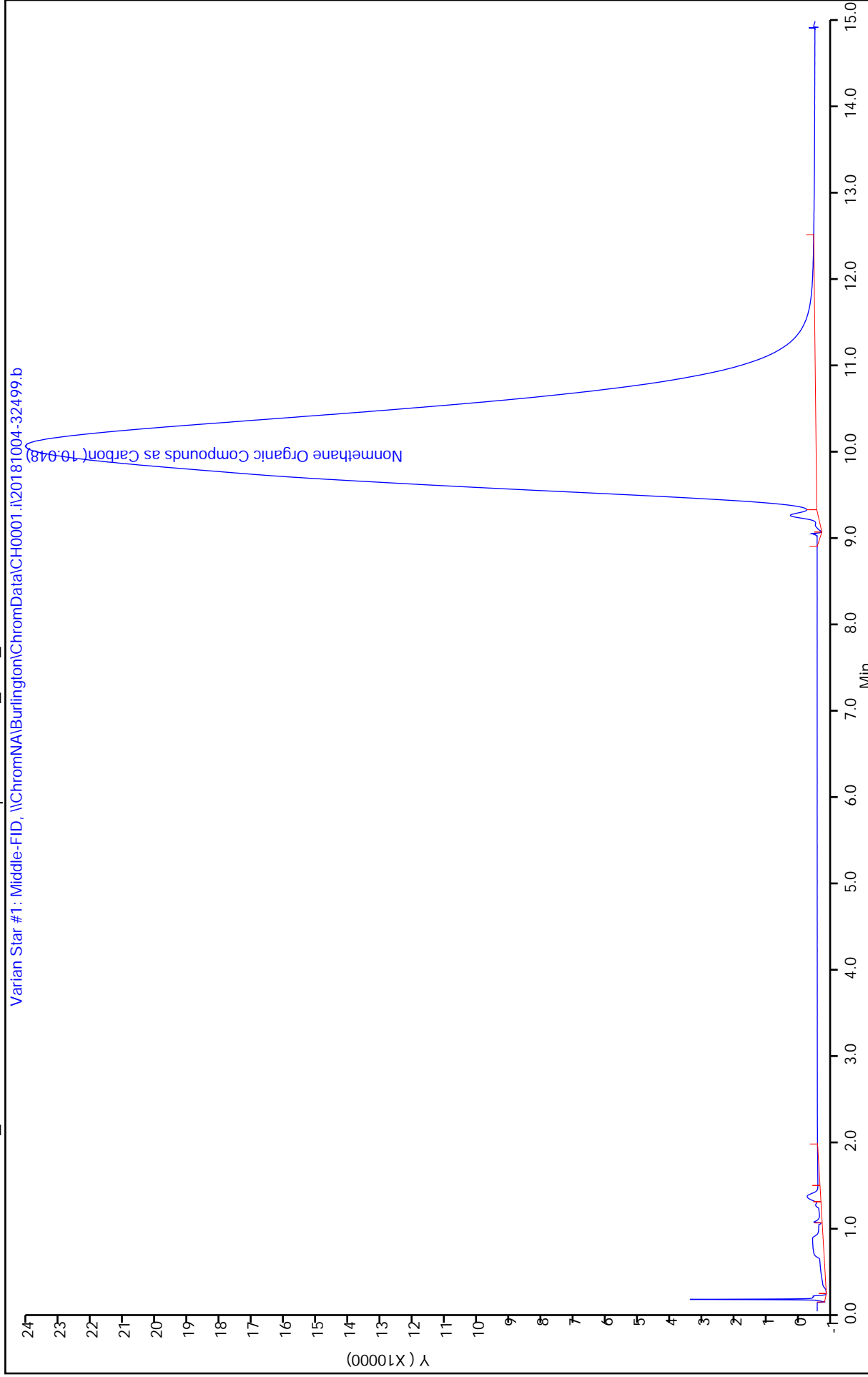
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25clcs20181004b.d

Injection Date: 04-Oct-2018 18:37:27

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 5

Client ID:

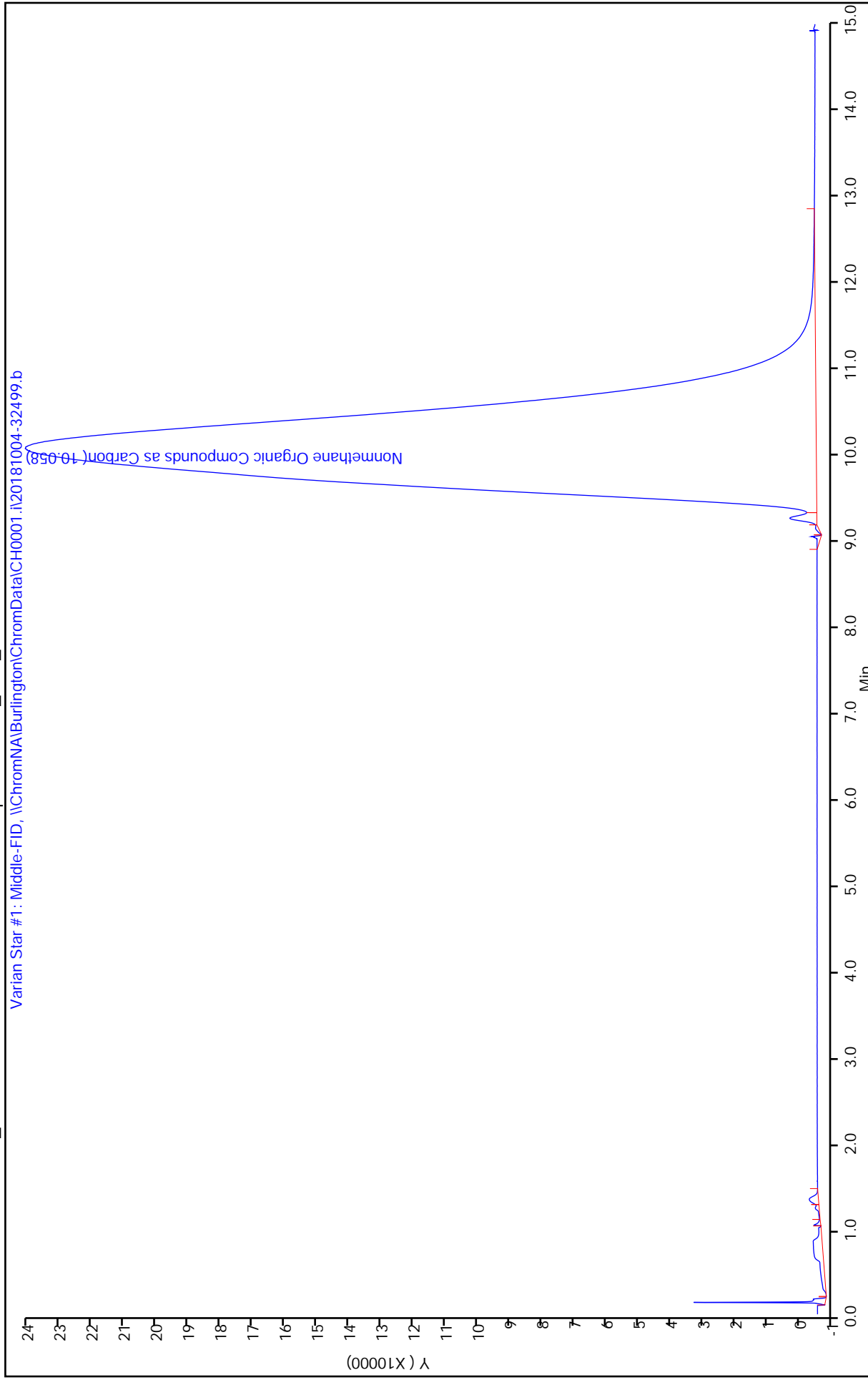
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181004-32499.b\25clcs20181004c.d

Injection Date: 04-Oct-2018 18:53:32

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 6

Client ID:

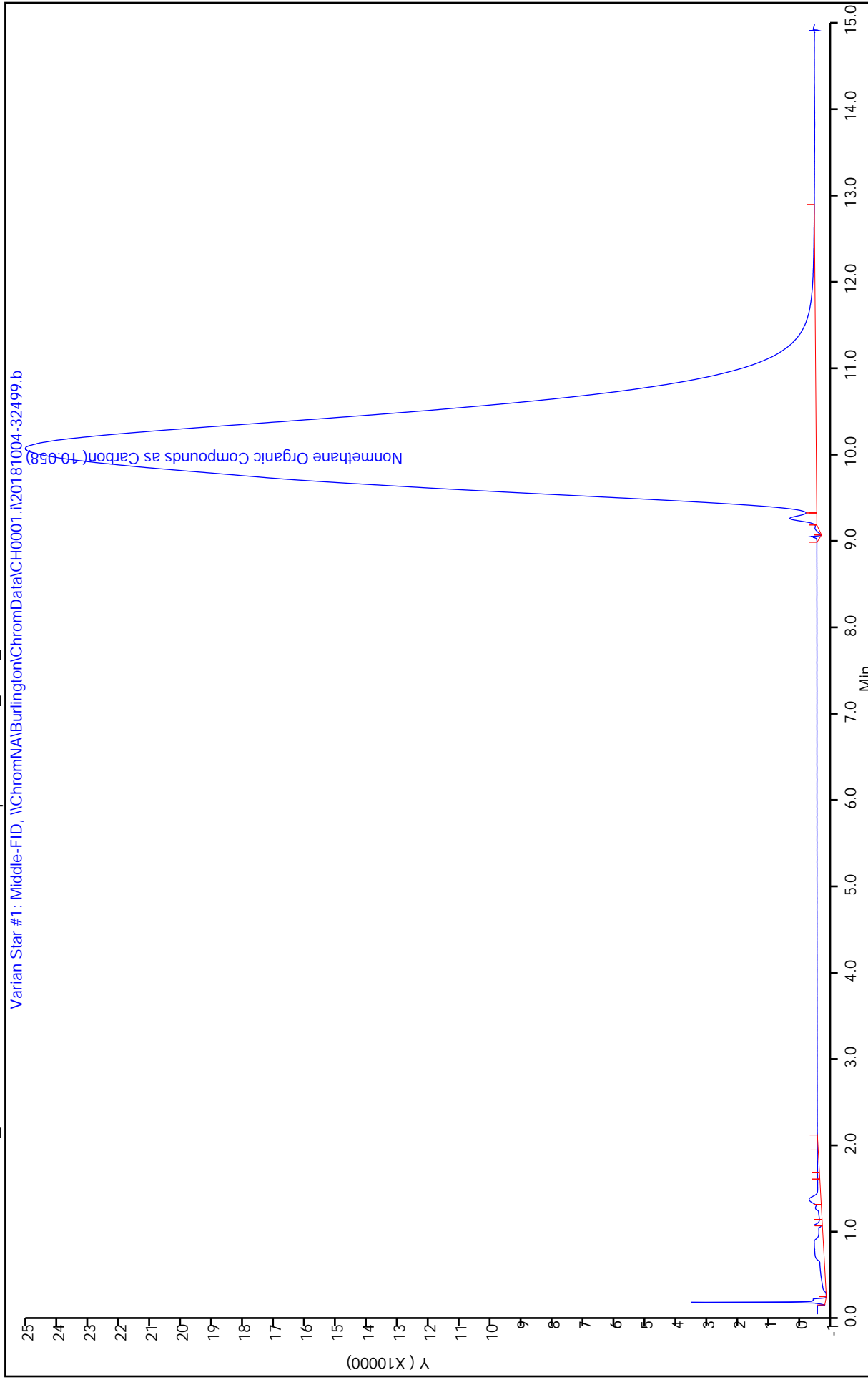
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1  
 SDG No.: 200-45482-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-135389/2  
 Matrix: Air Lab File ID: 25clcs20181016a.d-avg  
 Analysis Method: EPA 25C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/16/2018 12:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135389 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	734		6.0	6.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25clcs20181016a.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Oct-2018 12:29:04 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs20181016a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.072	9.908	0.164	13078532	750.0	726.8	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25clcs20181016b.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Oct-2018 12:45:07 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs20181016b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.025	9.908	0.117	13193436	750.0	733.2	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\25clcs20181016c.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 16-Oct-2018 13:01:11 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs20181016c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181016-32662.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 17-Oct-2018 14:23:46 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK048

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.002	9.908	0.094	13370538	750.0	743.0	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25clcs20181016a-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25clcs20181016b-135302-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25clcs20181016c-135302-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13078532	13193436	13370538	13214168.67	1.18

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	726.79	733.17	743.02	734.33	1.18



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25clcs20181016a.d

Injection Date: 16-Oct-2018 12:29:04

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 4

Client ID:

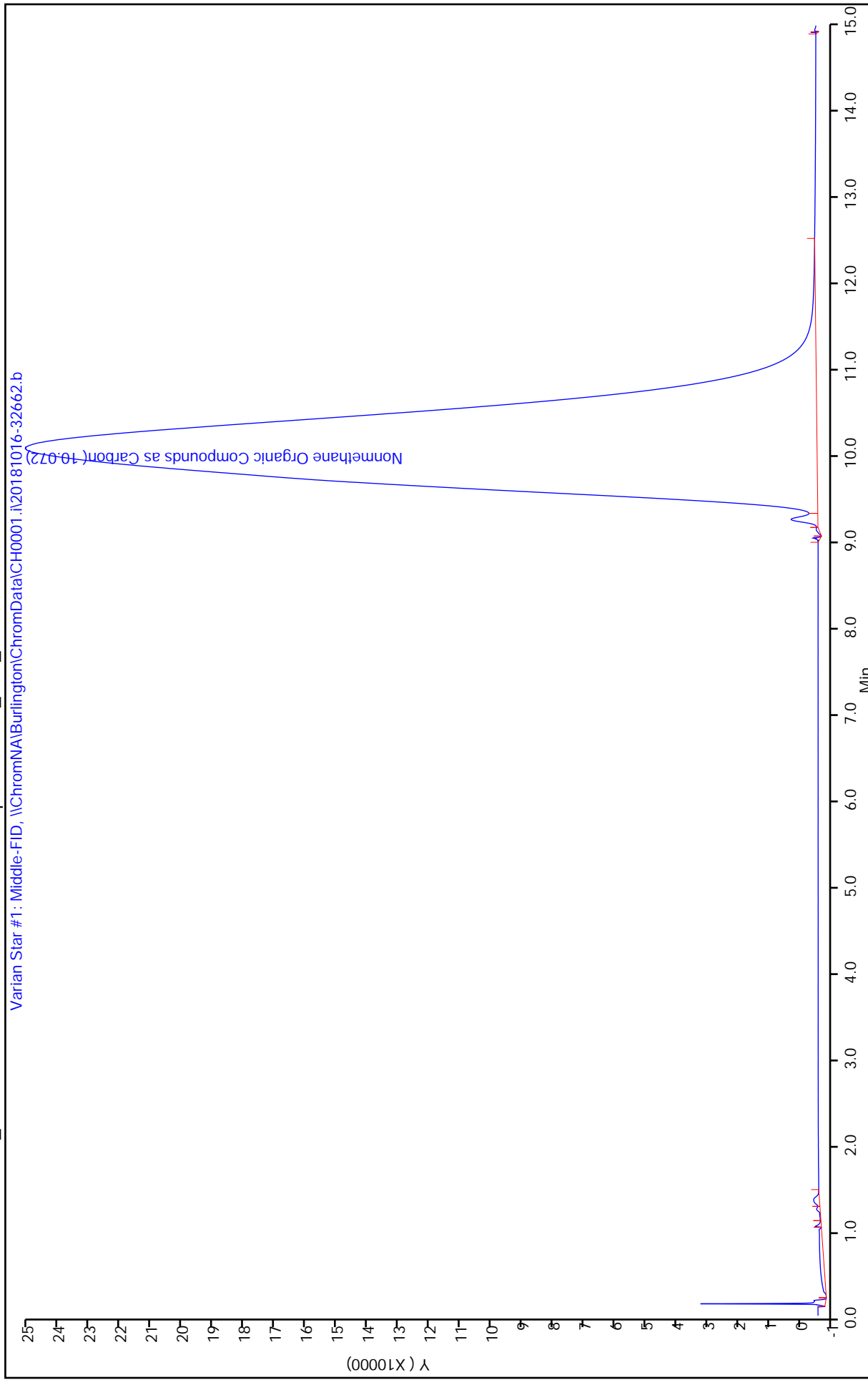
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25clcs20181016b.d

Injection Date: 16-Oct-2018 12:45:07

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 5

Client ID:

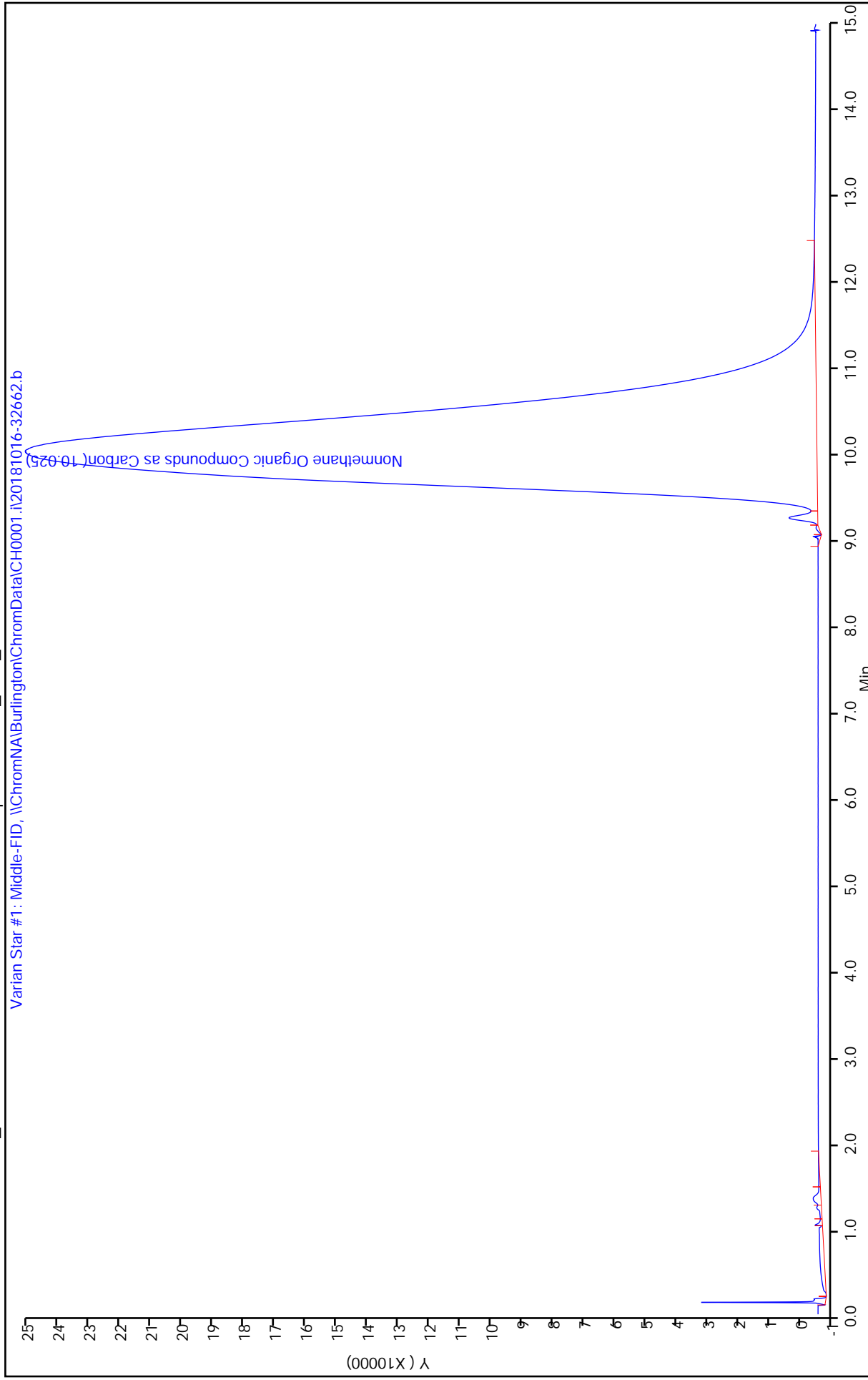
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181016-32662.b\25clcs20181016c.d

Injection Date: 16-Oct-2018 13:01:11

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 6

Client ID:

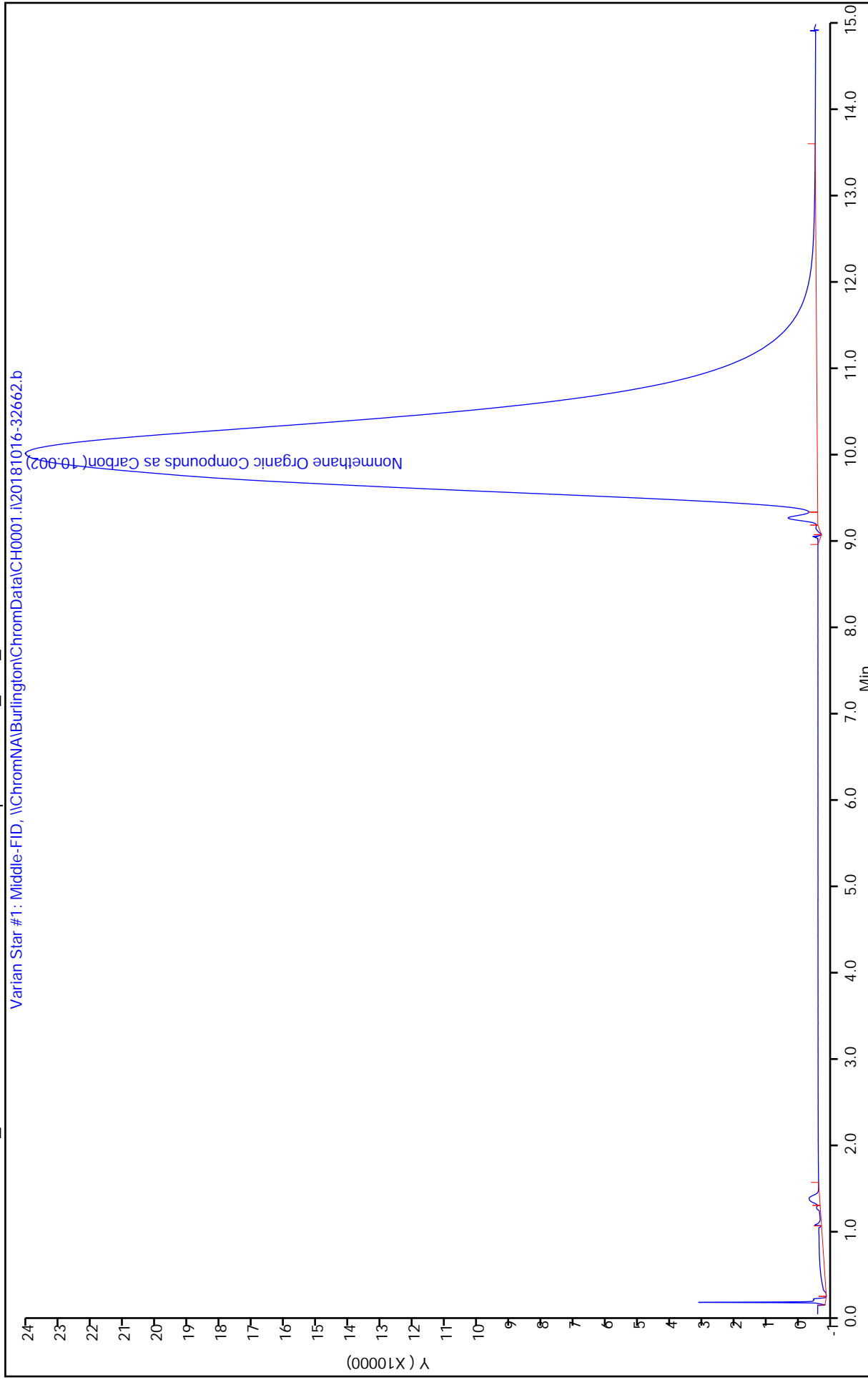
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Start Date: 01/08/2015 10:26

Analysis Batch Number: 83144 End Date: 01/08/2015 12:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICRT 200-83144/1		01/08/2015 10:26	1	25cic2_01072015 001.d-avg	Carbo/Unibeads 2 (mm)
IC 200-83144/2		01/08/2015 11:14	1	25cic3_01072015 001.d-avg	Carbo/Unibeads 2 (mm)
IC 200-83144/3		01/08/2015 12:02	1	25cic1_01082015 001.d-avg	Carbo/Unibeads 2 (mm)
ICV 200-83144/4		01/08/2015 12:50	1	25cicv_01082015 001.d-avg	Carbo/Unibeads 2 (mm)

AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Start Date: 10/04/2018 17:33

Analysis Batch Number: 135207 End Date: 10/05/2018 16:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-135207/1		10/04/2018 17:33	1	25cccv20181004c.d-avg	Carbo/Unibeads 2 (mm)
LCS 200-135207/2		10/04/2018 18:21	1	25clcs20181004a.d-avg	Carbo/Unibeads 2 (mm)
MB 200-135207/3		10/04/2018 19:09	1	mb20181004a.d-avg	Carbo/Unibeads 2 (mm)
ZZZZZ		10/04/2018 20:13	1.52		Carbo/Unibeads 2 (mm)
ZZZZZ		10/04/2018 21:18	1.48		Carbo/Unibeads 2 (mm)
ZZZZZ		10/04/2018 22:22	1.49		Carbo/Unibeads 2 (mm)
ZZZZZ		10/04/2018 23:26	1.47		Carbo/Unibeads 2 (mm)
200-45482-1		10/05/2018 00:49	1.61	200-45482-a-1b.d-avg	Carbo/Unibeads 2 (mm)
200-45482-2		10/05/2018 01:56	2.12	200-45482-a-2b.d-avg	Carbo/Unibeads 2 (mm)
200-45482-3		10/05/2018 03:00	1.93	200-45482-a-3b.d-avg	Carbo/Unibeads 2 (mm)
200-45482-4		10/05/2018 08:27	1.88	200-45482-a-4b.d-avg	Carbo/Unibeads 2 (mm)
200-45482-5		10/05/2018 09:32	1.89	200-45482-a-5b.d-avg	Carbo/Unibeads 2 (mm)
200-45482-6		10/05/2018 10:37	1.91	200-45482-a-6b.d-avg	Carbo/Unibeads 2 (mm)
ZZZZZ		10/05/2018 11:41	1.78		Carbo/Unibeads 2 (mm)
200-45482-8		10/05/2018 12:45	1.91	200-45482-a-8b.d-avg	Carbo/Unibeads 2 (mm)
CCVC 200-135207/16		10/05/2018 16:09	1	25ccvc20181005a.d-avg	Carbo/Unibeads 2 (mm)

AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Instrument ID: CH0001.i Start Date: 10/16/2018 11:40

Analysis Batch Number: 135389 End Date: 10/17/2018 13:07

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-135389/1		10/16/2018 11:40	1	25cccv20181016a.d-avg	Carbo/Unibeads 2 (mm)
LCS 200-135389/2		10/16/2018 12:29	1	25clcs20181016a.d-avg	Carbo/Unibeads 2 (mm)
MB 200-135389/3		10/16/2018 13:17	1	mb20181016a.d-avg	Carbo/Unibeads 2 (mm)
200-45482-7		10/16/2018 14:21	4.79	200-45482-a-7k.d-avg	Carbo/Unibeads 2 (mm)
ZZZZZ		10/16/2018 15:25	11.34		Carbo/Unibeads 2 (mm)
ZZZZZ		10/16/2018 16:30	10.92		Carbo/Unibeads 2 (mm)
ZZZZZ		10/16/2018 18:07	1.39		Carbo/Unibeads 2 (mm)
ZZZZZ		10/16/2018 18:55	1.45		Carbo/Unibeads 2 (mm)
ZZZZZ		10/16/2018 19:44	1.35		Carbo/Unibeads 2 (mm)
ZZZZZ		10/17/2018 00:52	2.75		Carbo/Unibeads 2 (mm)
ZZZZZ		10/17/2018 01:59	3.08		Carbo/Unibeads 2 (mm)
ZZZZZ		10/17/2018 03:03	3.06		Carbo/Unibeads 2 (mm)
ZZZZZ		10/17/2018 04:07	2.77		Carbo/Unibeads 2 (mm)
ZZZZZ		10/17/2018 05:12	3.07		Carbo/Unibeads 2 (mm)
ZZZZZ		10/17/2018 08:19	2.85		Carbo/Unibeads 2 (mm)
CCVC 200-135389/5		10/17/2018 10:24	1	25ccvc20181017c.d-avg	Carbo/Unibeads 2 (mm)
CCVC 200-135389/6		10/17/2018 13:07	1	25ccvc20181017h.d-avg	Carbo/Unibeads 2 (mm)

AIR - GC VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 83144 Batch Start Date: 01/08/15 10:26 Batch Analyst: Lyons, Benjamin P

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATNMOCCAL1w 00020	ATNMOCCAL3w 00018
ICRT 200-83144/1		EPA 25C		1	1	2 mL	2 mL		
IC 200-83144/2		EPA 25C		1	1	2 mL	2 mL		2 mL
IC 200-83144/3		EPA 25C		1	1	2 mL	2 mL	2 mL	
ICV 200-83144/4		EPA 25C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATNMOCCCVw 00037	ATNMOCLCSw 00045				
ICRT 200-83144/1		EPA 25C		2 mL					
IC 200-83144/2		EPA 25C							
IC 200-83144/3		EPA 25C							
ICV 200-83144/4		EPA 25C			2 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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 135207 Batch Start Date: 10/04/18 17:33 Batch Analyst: Desjardins, William R

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	NMOCPress	NMOCTemp
CCV 200-135207/1		EPA 25C		1	1	2 mL	2 mL		
LCS 200-135207/2		EPA 25C		1	1	2 mL	2 mL		
MB 200-135207/3		EPA 25C		1	1	2 mL	2 mL		
200-45482-A-1	KTSG-COMP-1	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45482-A-2	KTSG-COMP-2	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45482-A-3	KTSG-COMP-3	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45482-A-4	KTSG-COMP-4	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45482-A-5	KTSG-COMP-5	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45482-A-6	KTSG-COMP-6	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45482-A-8	KTSG-COMP-8	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
CCVC 200-135207/16		EPA 25C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATNMOCCCVw 00055	ATNMOCLCSw 00061				
CCV 200-135207/1		EPA 25C		2 mL					
LCS 200-135207/2		EPA 25C			2 mL				
MB 200-135207/3		EPA 25C							
200-45482-A-1	KTSG-COMP-1	EPA 25C	T						
200-45482-A-2	KTSG-COMP-2	EPA 25C	T						
200-45482-A-3	KTSG-COMP-3	EPA 25C	T						
200-45482-A-4	KTSG-COMP-4	EPA 25C	T						
200-45482-A-5	KTSG-COMP-5	EPA 25C	T						
200-45482-A-6	KTSG-COMP-6	EPA 25C	T						
200-45482-A-8	KTSG-COMP-8	EPA 25C	T						
CCVC 200-135207/16		EPA 25C		2 mL					

Batch Notes

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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 135207 Batch Start Date: 10/04/18 17:33 Batch Analyst: Desjardins, William R

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45482-1

SDG No.: 200-45482-1

Batch Number: 135389 Batch Start Date: 10/16/18 11:40 Batch Analyst: Desjardins, William R

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	NMOCPress	NMOCTemp
CCV 200-135389/1		EPA 25C		1	1	2 mL	2 mL		
LCS 200-135389/2		EPA 25C		1	1	2 mL	2 mL		
MB 200-135389/3		EPA 25C		1	1	2 mL	2 mL		
200-45482-A-7	KTSG-COMP-7	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
CCVC 200-135389/5		EPA 25C		1	1	2 mL	2 mL		
CCVC 200-135389/6		EPA 25C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATNMOCCVw 00055	ATNMOCLCSw 00061				
CCV 200-135389/1		EPA 25C		2 mL					
LCS 200-135389/2		EPA 25C			2 mL				
MB 200-135389/3		EPA 25C							
200-45482-A-7	KTSG-COMP-7	EPA 25C	T						
CCVC 200-135389/5		EPA 25C		2 mL					
CCVC 200-135389/6		EPA 25C		2 mL					

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: PBS Engineering and Environmental

Job No.: 200-45482-1  
SDG No.: 200-45482-1

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	Analyst
200-45482-1	6	-5.7	0.81	4.86	4.5	1.31	7.84		1.61	1.61	10/05/18 10:11	Desjardins, William R
200-45482-2	6	-10.5	0.65	3.89	5.5	1.37	8.24		2.12	2.12	10/05/18 10:12	Desjardins, William R
200-45482-2	6	1.8	1.06	6.36	28.0	2.90	17.43		2.74	5.80	10/09/18 16:17	Desjardins, William R
200-45482-3	6	-9.5	0.68	4.09	4.7	1.32	7.92		1.93	1.93	10/05/18 10:13	Desjardins, William R
200-45482-4	6	-8.7	0.71	4.26	4.9	1.33	8.00		1.88	1.88	10/05/18 10:13	Desjardins, William R
200-45482-5	6	-8.7	0.71	4.26	5.0	1.34	8.04		1.89	1.89	10/05/18 10:13	Desjardins, William R
200-45482-6	6	-8.9	0.70	4.22	5.0	1.34	8.04		1.91	1.91	10/05/18 10:14	Desjardins, William R
200-45482-7	6	-7.8	0.74	4.44	4.6	1.31	7.88		1.78	1.78	10/05/18 10:14	Desjardins, William R
200-45482-7	6	2.2	1.07	6.44	27.9	2.90	17.39		2.70	4.79	10/09/18 17:15	Desjardins, William R
200-45482-8	6	-9.3	0.69	4.14	4.6	1.31	7.88		1.91	1.91	10/05/18 10:15	Desjardins, William R

**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

System ID		Max DF#		# Cycles		Cleaning Date		Technician		Canister Size		Certification Type	
Bottom Rack		1		20		8/20/2018		EJE		6L		Individual	
Port	Can ID	Initial (psia)	Final (psia)	Diff. 3	Final ("Hg)	Gauge	Date	Initial Reading	Tech	Temp	Gauge	Date	Final Reading
						G26		Time			G26		Time
1	4871	.01	.01	.00	30.0	G26	8/21/18	8:22	CE	23	G26	9.5.18	14:51
2	3660	.01	.02	.00	30.0	G26	9.5.18	14:19	CE	24	G26	9.6.18	15:51
3	3762	.01	.01	.00	30.0	G26	8.21.15	8:22	CE	23	G26	9.5.18	14:04
4	5148		.03	.02		G26					G26		
5	5107		.01	.00		G26					G26		
6	4123		.01	.00		G26					G26		
7	2659		.01	.00		G26					G26		
8	5406		.04	.03		G26					G26		
9	5053		.01	.00		G26					G26		
10	4327		.01	.00		G26					G26		
11	3487		.01	.00		G26					G26		
12	4069		.01	.00		G26					G26		

<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>2</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 time frame was not met, the PM must authorize shipment of canister PM Authorization Date: \_\_\_\_\_

Clean Canister Certification Analysis & Authorization of Release to Inventory					
Can ID	Date	Sequence	Analyst	Inventory Level	Secondary Review
3660	9/9/18	32006	ASJ	4	Reviewer: [Signature] 9/9/18

**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.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Loc: 200  
**44896**  
 #2  
 A

200-44896-A-2  
 3660  
 Location: Air-Storage  
 Bottle: Summa Canister 6L  
 Sampled: 8/20/2018 12:00 AM 200-1186811

# Pre-Shipment Clean Canister Certification Report

200-45174-A-12  
 4249  
 Location: Air-Storage  
 Bottle: Summa Canister 6L  
 Sampled: 9/10/2018 12:00 AM 200-1193436

Loc: 200  
**45174**  
**#12**  
**A**

System ID		Max DF#		# Cycles	Cleaning Date	Technician		Canister Size		Certification Type		
Oven 3/4		1800		23	9/10/2018	EJE		6L		Individual		
Port	Can ID	Initial <sup>1</sup> (psia)	Final (psia)	Diff. <sup>3</sup>	Initial Reading		Temp:	Gauge:	Date:	Final Reading		
					Date:	Time:				Date:	Time:	
1	3397	.02	.02	.00	9/11/18	9:53	13	G26	9/13/18	9:39	CE	24
2	3085	.02	.02	.00				G26				
3	4819	.02	.02	.00				G26				
4	5167	.02	.02	.00				G26				
5	2851	.16	.14	.02				G26				
6	5903	.07	.05	.02				G26				
7	6266	.02	.00	.02				G26				
8	4821	.03	.01	.02				G26				
9	4008	.03	.01	.02				G26				
10	2847	.05	.03	.02				G26				
11	4814	.05	.01	.04				G26				
12	4249	.01	.00	.01	9/13/18	10:32	24	G26	9/14/18	13:19	CE	24

<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.

**PM Authorization**  
 If time frame was not met, the PM must authorize shipment of canister

Clean Canister Certification Analysis & Authorization of Release to Inventory				
Can ID	Date	Inventory Level		Secondary Review
		Limited	Reviewer	
4249	9/12/18	XXXX	9/12/18	JTP

**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.

**Pre-shipment Clean Canister Certification Report**

200-45175-A-12  
5065  
Location: Air-Storage  
Bottle: Summa Canister 6L  
Sampled: 9/10/2018 12:00 AM 200-1193479

Loc: 200  
**45175**  
**#12**  
**A**

System ID		Cleaning Date				Technician		Canister Size		Certification Type:	
Oven 1/2		9/10/2018		EJE		6L		Individual		Batch	
Port	Can ID	Initial <sup>1</sup> (psia)	Final (psia)	Diff. <sup>3</sup>	# Cycles	Max DF#	Initial Reading	Final Reading	Gauge:	Date:	Temp:
1	4136	1.01	0.01	0.00	20		9:32	9:03	G26	9-13-18	23
2	4803	1.08	0.08	0.07					G26		
3	5136	1.07	0.07	0.06					G26		
4	5628	1.01	0.01	0.00					G26		
5	5730	1.01	0.01	0.00					G26		
6	5979	1.01	0.01	0.00					G26		
7	2725	1.01	0.01	0.00					G26		
8	5708	1.01	0.01	0.00					G26		
9	3885	1.01	0.01	0.00					G26		
10	5679	1.01	0.01	0.00					G26		
11	5603	1.01	0.01	0.00					G26		
12	5065	1.01	0.01	0.00	20		9:23	13:14	G26	9-13-18	24

**PM Authorization**  
Date: \_\_\_\_\_

**Clean Canister Certification Analysis & Authorization of Release to Inventory**

Can ID	Date	Sequence	Analyst	Inventory Level	Limited	Secondary Review Review Date	Reviewer
5065	9/12/18	32145	ABJ	XXXX		9/12/18	JSP

**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.

**Comments:** \_\_\_\_\_

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-45174-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 32143-03.d

Lab ID: LCS 200-133921/3

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	11.6	116	58-129	
Dichlorodifluoromethane	10.0	11.4	114	68-128	
Freon 22	10.0	11.3	113	64-128	
1,2-Dichlorotetrafluoroethane	10.0	12.7	127	78-138	
Chloromethane	10.0	10.7	107	57-126	
n-Butane	10.0	10.9	109	56-130	
Vinyl chloride	10.0	11.1	111	62-125	
1,3-Butadiene	10.0	11.8	118	59-125	
Bromomethane	10.0	9.80	98	68-128	
Chloroethane	10.0	9.74	97	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.7	107	67-127	
Trichlorofluoromethane	10.0	10.5	105	67-127	
Ethanol	15.0	12.7	85	28-168	
Freon TF	10.0	8.96	90	68-128	
1,1-Dichloroethene	10.0	9.89	99	67-127	
Acetone	10.0	10.3	103	64-136	
Isopropyl alcohol	10.0	9.64	96	55-124	
Carbon disulfide	10.0	9.68	97	81-141	
3-Chloropropene	10.0	8.33	83	53-133	
Methylene Chloride	10.0	8.57	86	62-122	
tert-Butyl alcohol	10.0	10.2	102	64-124	
Methyl tert-butyl ether	10.0	10.5	105	67-127	
trans-1,2-Dichloroethene	10.0	10.0	100	72-132	
n-Hexane	10.0	11.0	110	71-131	
1,1-Dichloroethane	10.0	9.72	97	66-126	
Vinyl acetate	10.0	10.1	101	62-130	
Ethyl acetate	10.0	9.38	94	75-135	
Methyl Ethyl Ketone	10.0	9.58	96	62-122	
cis-1,2-Dichloroethene	10.0	10.6	106	67-127	
Chloroform	10.0	9.69	97	69-129	
Tetrahydrofuran	10.0	10.5	105	61-136	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Cyclohexane	10.0	10.7	107	69-129	
Carbon tetrachloride	10.0	10.9	109	62-143	
2,2,4-Trimethylpentane	10.0	10.7	107	67-127	
Benzene	10.0	9.65	96	67-127	
1,2-Dichloroethane	10.0	11.2	112	67-132	
n-Heptane	10.0	11.3	113	62-130	
Trichloroethene	10.0	10.4	104	68-128	
Methyl methacrylate	10.0	10.6	106	70-130	
1,2-Dichloropropane	10.0	9.59	96	67-127	
1,4-Dioxane	10.0	10.1	101	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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: 32143-03.d  
 Lab ID: LCS 200-133921/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.5	105	69-129	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.3	103	62-130	
Toluene	10.0	10.1	101	67-127	
trans-1,3-Dichloropropene	10.0	10.8	108	69-129	
1,1,2-Trichloroethane	10.0	10.0	100	69-129	
Tetrachloroethene	10.0	10.7	107	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61-127	
Dibromochloromethane	10.0	10.1	101	66-130	
1,2-Dibromoethane	10.0	10.2	102	70-130	
Chlorobenzene	10.0	9.69	97	68-128	
Ethylbenzene	10.0	10.7	107	68-128	
m,p-Xylene	20.0	21.4	107	68-128	
Xylene, o-	10.0	10.7	107	67-127	
Styrene	10.0	10.7	107	68-128	
Bromoform	10.0	10.8	108	34-170	
Cumene	10.0	10.8	108	67-127	
1,1,2,2-Tetrachloroethane	10.0	9.81	98	69-129	
n-Propylbenzene	10.0	10.9	109	67-127	
4-Ethyltoluene	10.0	11.6	116	69-129	
1,3,5-Trimethylbenzene	10.0	10.9	109	65-125	
2-Chlorotoluene	10.0	10.2	102	67-127	
tert-Butylbenzene	10.0	10.9	109	63-125	
1,2,4-Trimethylbenzene	10.0	11.9	119	65-125	
sec-Butylbenzene	10.0	11.0	110	66-126	
4-Isopropyltoluene	10.0	11.2	112	67-129	
1,3-Dichlorobenzene	10.0	11.1	111	67-127	
1,4-Dichlorobenzene	10.0	11.1	111	66-126	
Benzyl chloride	10.0	10.7	107	54-135	
n-Butylbenzene	10.0	11.3	113	67-127	
1,2-Dichlorobenzene	10.0	10.9	109	67-127	
1,2,4-Trichlorobenzene	10.0	8.97	90	59-126	
Hexachlorobutadiene	10.0	9.57	96	62-130	
Naphthalene	10.0	8.23	82	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.: 200-45175-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 32143-03.d

Lab ID: LCS 200-133921/3

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	11.6	116	58-129	
Dichlorodifluoromethane	10.0	11.4	114	68-128	
Freon 22	10.0	11.3	113	64-128	
1,2-Dichlorotetrafluoroethane	10.0	12.7	127	78-138	
Chloromethane	10.0	10.7	107	57-126	
n-Butane	10.0	10.9	109	56-130	
Vinyl chloride	10.0	11.1	111	62-125	
1,3-Butadiene	10.0	11.8	118	59-125	
Bromomethane	10.0	9.80	98	68-128	
Chloroethane	10.0	9.74	97	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.7	107	67-127	
Trichlorofluoromethane	10.0	10.5	105	67-127	
Ethanol	15.0	12.7	85	28-168	
Freon TF	10.0	8.96	90	68-128	
1,1-Dichloroethene	10.0	9.89	99	67-127	
Acetone	10.0	10.3	103	64-136	
Isopropyl alcohol	10.0	9.64	96	55-124	
Carbon disulfide	10.0	9.68	97	81-141	
3-Chloropropene	10.0	8.33	83	53-133	
Methylene Chloride	10.0	8.57	86	62-122	
tert-Butyl alcohol	10.0	10.2	102	64-124	
Methyl tert-butyl ether	10.0	10.5	105	67-127	
trans-1,2-Dichloroethene	10.0	10.0	100	72-132	
n-Hexane	10.0	11.0	110	71-131	
1,1-Dichloroethane	10.0	9.72	97	66-126	
Vinyl acetate	10.0	10.1	101	62-130	
Ethyl acetate	10.0	9.38	94	75-135	
Methyl Ethyl Ketone	10.0	9.58	96	62-122	
cis-1,2-Dichloroethene	10.0	10.6	106	67-127	
Chloroform	10.0	9.69	97	69-129	
Tetrahydrofuran	10.0	10.5	105	61-136	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Cyclohexane	10.0	10.7	107	69-129	
Carbon tetrachloride	10.0	10.9	109	62-143	
2,2,4-Trimethylpentane	10.0	10.7	107	67-127	
Benzene	10.0	9.65	96	67-127	
1,2-Dichloroethane	10.0	11.2	112	67-132	
n-Heptane	10.0	11.3	113	62-130	
Trichloroethene	10.0	10.4	104	68-128	
Methyl methacrylate	10.0	10.6	106	70-130	
1,2-Dichloropropane	10.0	9.59	96	67-127	
1,4-Dioxane	10.0	10.1	101	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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: 32143-03.d  
 Lab ID: LCS 200-133921/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.5	105	69-129	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.3	103	62-130	
Toluene	10.0	10.1	101	67-127	
trans-1,3-Dichloropropene	10.0	10.8	108	69-129	
1,1,2-Trichloroethane	10.0	10.0	100	69-129	
Tetrachloroethene	10.0	10.7	107	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61-127	
Dibromochloromethane	10.0	10.1	101	66-130	
1,2-Dibromoethane	10.0	10.2	102	70-130	
Chlorobenzene	10.0	9.69	97	68-128	
Ethylbenzene	10.0	10.7	107	68-128	
m,p-Xylene	20.0	21.4	107	68-128	
Xylene, o-	10.0	10.7	107	67-127	
Styrene	10.0	10.7	107	68-128	
Bromoform	10.0	10.8	108	34-170	
Cumene	10.0	10.8	108	67-127	
1,1,2,2-Tetrachloroethane	10.0	9.81	98	69-129	
n-Propylbenzene	10.0	10.9	109	67-127	
4-Ethyltoluene	10.0	11.6	116	69-129	
1,3,5-Trimethylbenzene	10.0	10.9	109	65-125	
2-Chlorotoluene	10.0	10.2	102	67-127	
tert-Butylbenzene	10.0	10.9	109	63-125	
1,2,4-Trimethylbenzene	10.0	11.9	119	65-125	
sec-Butylbenzene	10.0	11.0	110	66-126	
4-Isopropyltoluene	10.0	11.2	112	67-129	
1,3-Dichlorobenzene	10.0	11.1	111	67-127	
1,4-Dichlorobenzene	10.0	11.1	111	66-126	
Benzyl chloride	10.0	10.7	107	54-135	
n-Butylbenzene	10.0	11.3	113	67-127	
1,2-Dichlorobenzene	10.0	10.9	109	67-127	
1,2,4-Trichlorobenzene	10.0	8.97	90	59-126	
Hexachlorobutadiene	10.0	9.57	96	62-130	
Naphthalene	10.0	8.23	82	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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-04.d Lab Sample ID: MB 200-133921/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHW.i Date Analyzed: 09/11/2018 14:32  
 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 200-133921/3	32143-03.d	09/11/2018 13:37
4249	200-45174-12	32143-20.d	09/12/2018 05:18

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-04.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Sep-2018 14:32:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0032143-004  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:10:47 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek

Date: 12-Sep-2018 13:10:47

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		5.042					ND	U
2 Dichlorodifluoromethane	85		5.154					ND	
3 Chlorodifluoromethane	51		5.235					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556					ND	
5 Chloromethane	50		5.753					ND	
6 Butane	43		6.021					ND	
7 Vinyl chloride	62		6.080					ND	
8 Butadiene	54		6.171					ND	
9 Bromomethane	94		6.963					ND	
11 Chloroethane	64		7.219					ND	
12 2-Methylbutane	43		7.289					ND	
13 Vinyl bromide	106		7.626					ND	
14 Trichlorofluoromethane	101		7.717					ND	
15 Pentane	43		7.851					ND	
16 Ethanol	45		8.225					ND	
17 Ethyl ether	59		8.327					ND	
T 18 Methyl Acetate TIC	43		8.560					ND	
19 Acrolein	56		8.712					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723					ND	
21 1,1-Dichloroethene	96		8.787					ND	
22 Acetone	43	9.001	8.979	0.022	97	8852		0.4433	
23 Carbon disulfide	76		9.183					ND	
24 Isopropyl alcohol	45	9.199	9.188	0.011	98	10341		0.4901	
25 3-Chloro-1-propene	41		9.488					ND	U
26 Acetonitrile	41		9.605					ND	
27 Methylene Chloride	49		9.744					ND	U
28 2-Methyl-2-propanol	59		9.867					ND	
29 Methyl tert-butyl ether	73		10.076					ND	
30 trans-1,2-Dichloroethene	61		10.140					ND	
S 31 1,2-Dichloroethene, Total	61		10.200					ND	
32 Acrylonitrile	53		10.274					ND	
33 Hexane	57		10.467					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63		10.932					ND	
35 Vinyl acetate	43		10.959					ND	
36 cis-1,2-Dichloroethene	96		11.938					ND	
37 2-Butanone (MEK)	72		11.948					ND	
38 Ethyl acetate	88		11.959					ND	
39 Tetrahydrofuran	42		12.355					ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	91	91677	10.0	10.0	
41 Chloroform	83		12.457					ND	
42 Cyclohexane	84		12.719					ND	
43 1,1,1-Trichloroethane	97		12.735					ND	
44 Carbon tetrachloride	117		12.960					ND	
45 Isooctane	57		13.307					ND	
46 Benzene	78		13.371					ND	U
47 1,2-Dichloroethane	62		13.521					ND	
48 n-Heptane	43		13.628					ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	456636	10.0	10.0	
50 n-Butanol	56		14.329					ND	
51 Trichloroethene	95		14.495					ND	
A 52 GRO	1	14.717	(7.279-22.155)		0	1767627		0	
53 1,2-Dichloropropane	63		14.982					ND	
T 54 Methyl cyclohexane TIC	55		15.012					ND	
55 Methyl methacrylate	69		15.067					ND	
56 1,4-Dioxane	88		15.153					ND	
57 Dibromomethane	174		15.212					ND	
58 Dichlorobromomethane	83		15.447					ND	
59 cis-1,3-Dichloropropene	75		16.271					ND	
A 60 TVOC as Toluene	92	16.391	(5.032-27.751)		0	2022464		67.0	
61 4-Methyl-2-pentanone (MIBK)	43		16.501					ND	
62 n-Octane	43		16.817					ND	
63 Toluene	92		16.817					ND	
64 trans-1,3-Dichloropropene	75		17.341					ND	
65 1,1,2-Trichloroethane	83		17.694					ND	
66 Tetrachloroethene	166		17.812					ND	
67 2-Hexanone	43		18.085					ND	
68 Chlorodibromomethane	129		18.422					ND	
69 Ethylene Dibromide	107		18.689					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	378094	10.0	10.0	
72 Chlorobenzene	112		19.593					ND	
73 Ethylbenzene	91		19.716					ND	U
74 n-Nonane	57		19.796					ND	
75 m-Xylene & p-Xylene	106		19.957					ND	
S 76 Xylenes, Total	106		20.100					ND	
77 o-Xylene	106		20.727					ND	
78 Styrene	104		20.770					ND	
79 Bromoform	173		21.166					ND	
80 Isopropylbenzene	105		21.332					ND	
81 1,1,2,2-Tetrachloroethane	83		21.936					ND	U
82 N-Propylbenzene	91		22.006					ND	U
83 1,2,3-Trichloropropane	75		22.038					ND	
84 n-Decane	57		22.145					ND	
85 4-Ethyltoluene	105		22.182					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
86 2-Chlorotoluene	91		22.204					ND	U
87 1,3,5-Trimethylbenzene	105		22.284					ND	U
88 Alpha Methyl Styrene	118		22.637					ND	
89 tert-Butylbenzene	119		22.760					ND	U
90 1,2,4-Trimethylbenzene	105		22.851					ND	U
91 sec-Butylbenzene	105		23.076					ND	U
92 4-Isopropyltoluene	119		23.274					ND	
93 1,3-Dichlorobenzene	146		23.322					ND	U
94 1,4-Dichlorobenzene	146		23.461					ND	U
95 Benzyl chloride	91		23.664					ND	
97 Undecane	57		23.873					ND	
96 n-Butylbenzene	91		23.873					ND	
98 1,2-Dichlorobenzene	146		24.023					ND	
99 Dodecane	57		25.558					ND	
100 1,2,4-Trichlorobenzene	180		26.698					ND	
101 Hexachlorobutadiene	225		26.885					ND	U
102 Naphthalene	128		27.227					ND	
103 1,2,3-Trichlorobenzene	180		27.741					ND	
T 104 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 105 Methyl acetylene TIC	1		0.000					ND	
106 Total Alkanes	1		0.000					ND	
T 107 1,3-Dichloropropane TIC	1		0.000					ND	
T 108 Freon 115 TIC	1		0.000					ND	
T 109 Difluoroethane TIC	1		0.000					ND	
T 110 Chlorotrifluoroethene TIC	1		0.000					ND	
T 111 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d

Injection Date: 11-Sep-2018 14:32:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

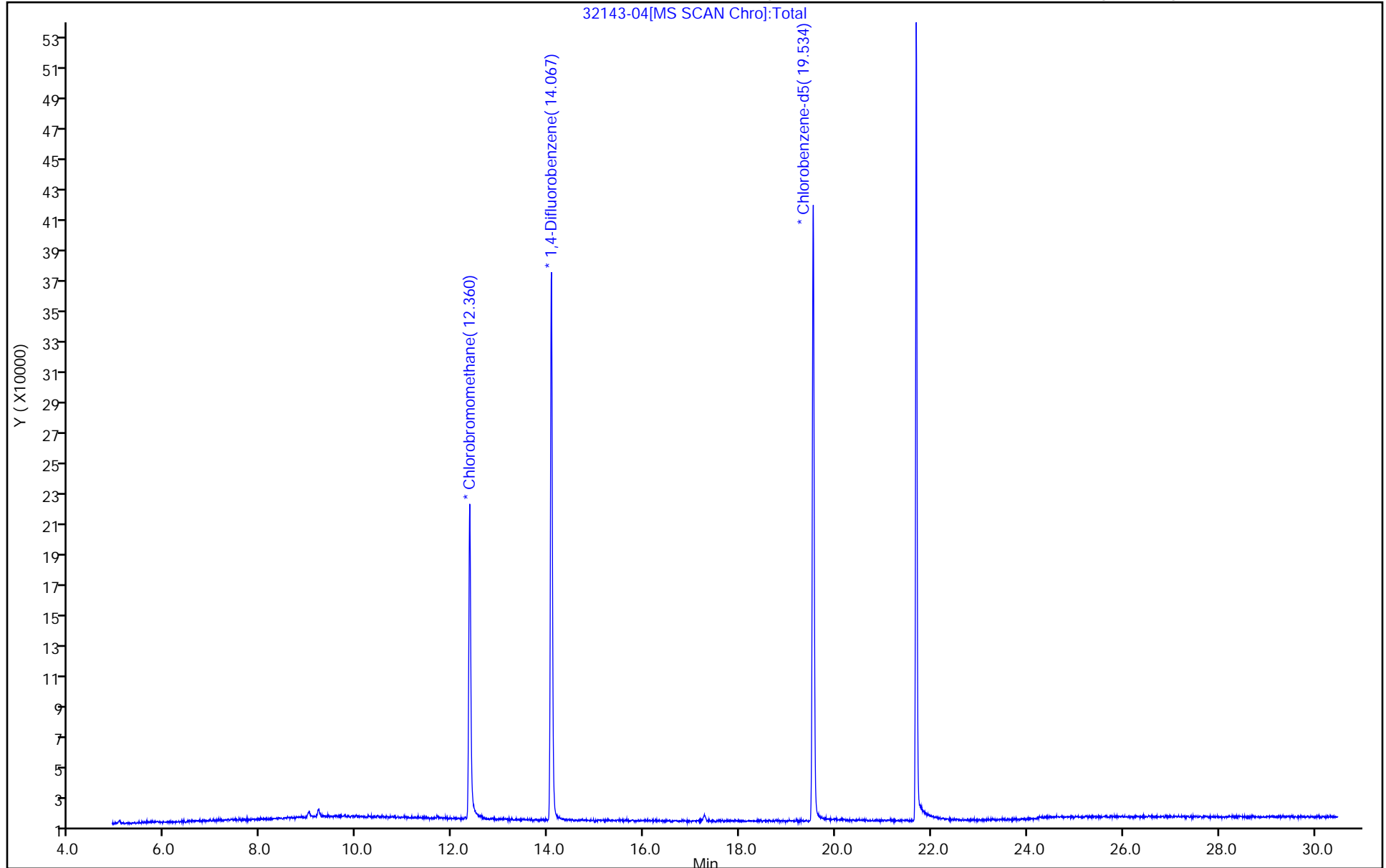
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

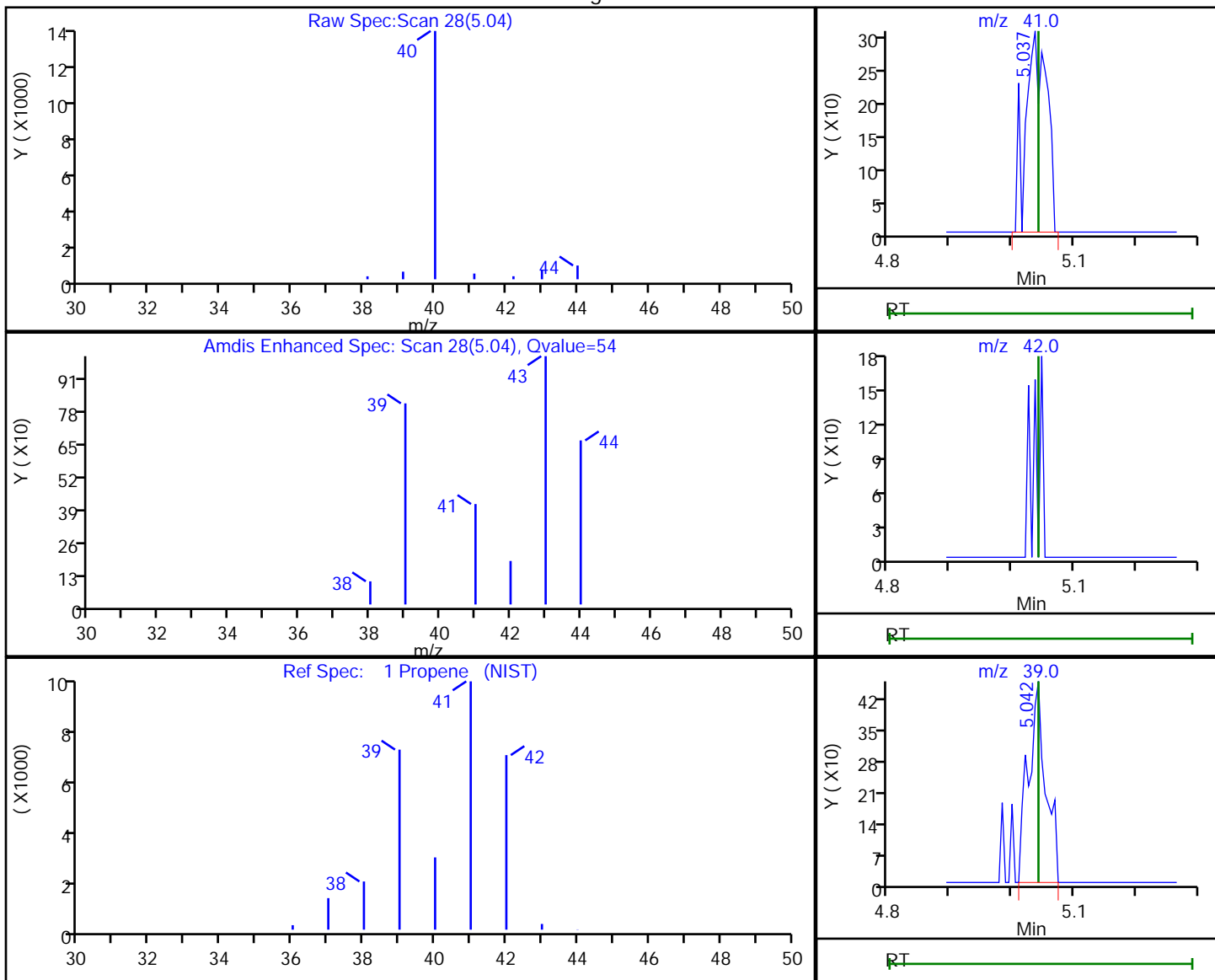


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) 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
5.04	41.00	716	0.064441
5.04	42.00	0	
5.04	39.00	890	

Reviewer: puangmaleek, 12-Sep-2018 13:07:42

Audit Action: Marked Compound Undetected

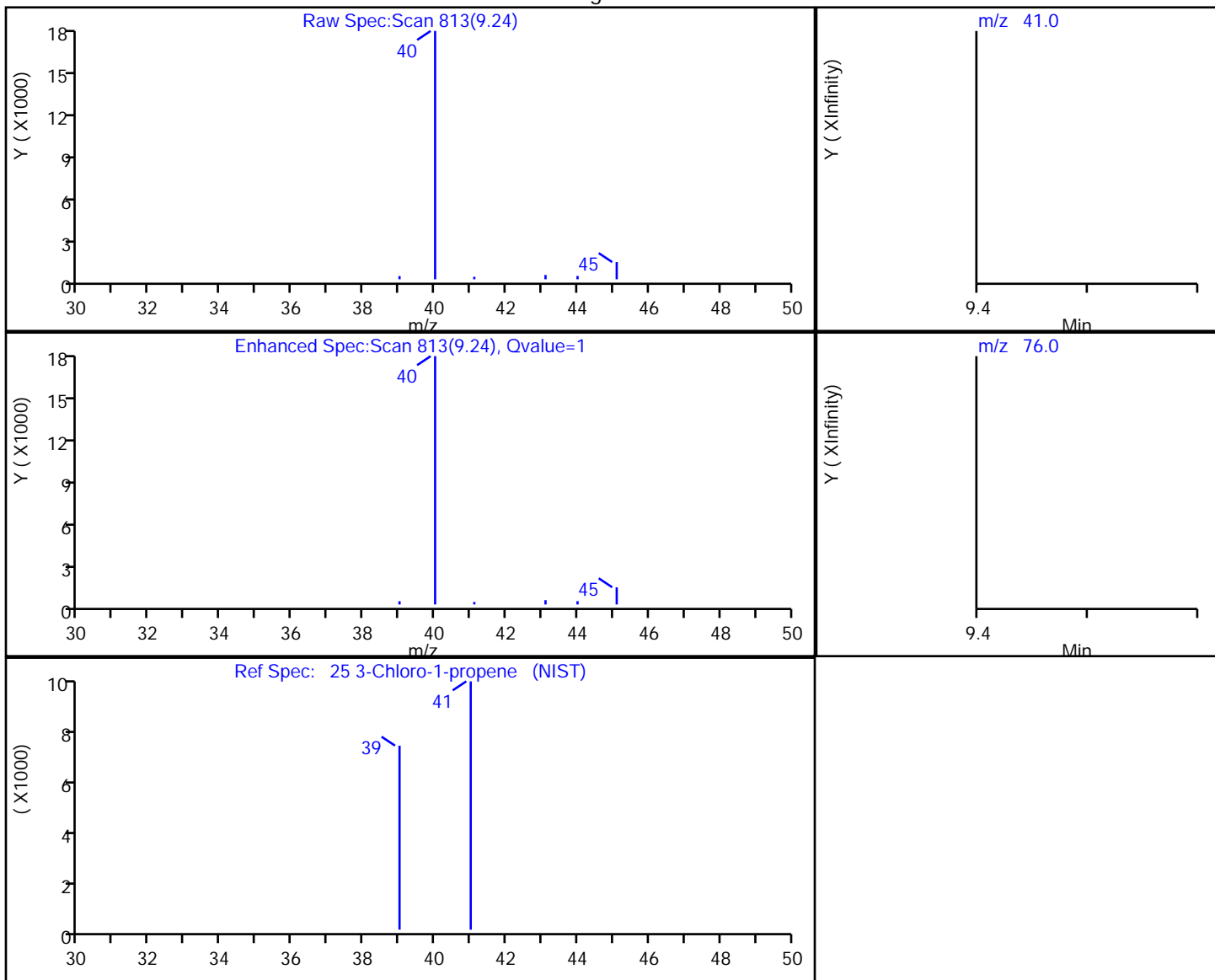
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
9.24	41.00	108	0.007141
9.49	76.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:07:53

Audit Action: Marked Compound Undetected

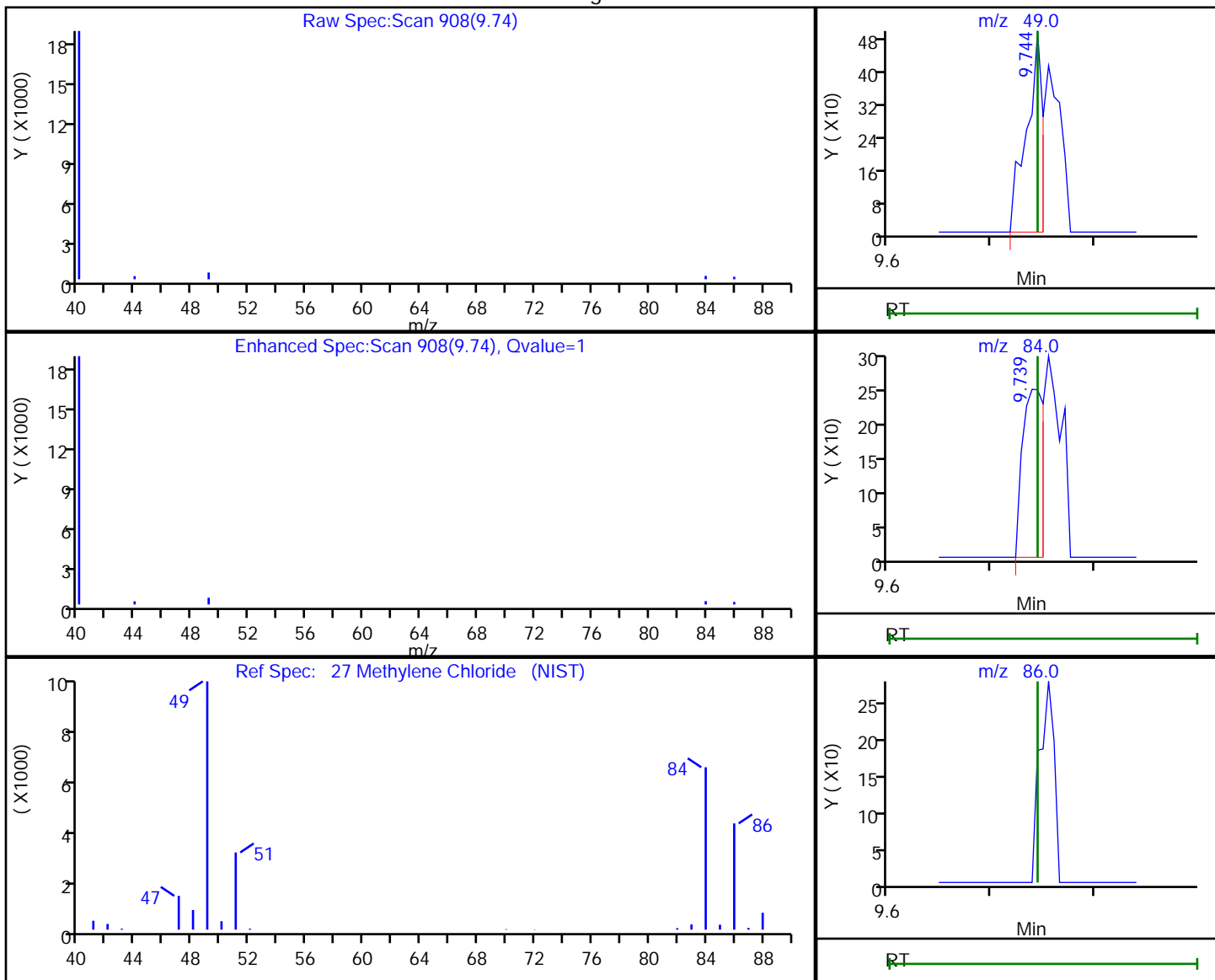
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	529	0.033234
9.74	84.00	347	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:09

Audit Action: Marked Compound Undetected

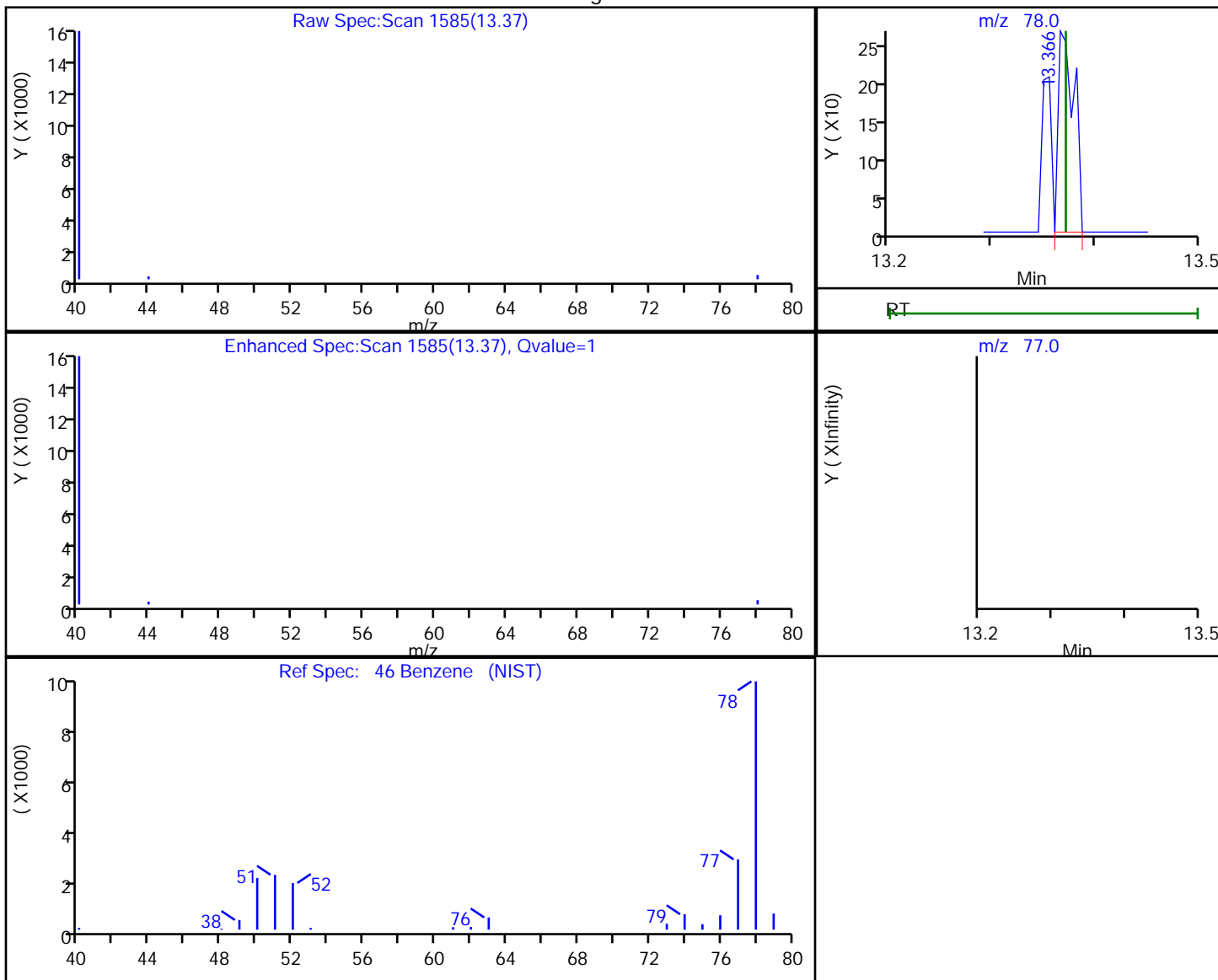
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
13.37	78.00	285	0.006898
13.37	77.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:40

Audit Action: Marked Compound Undetected

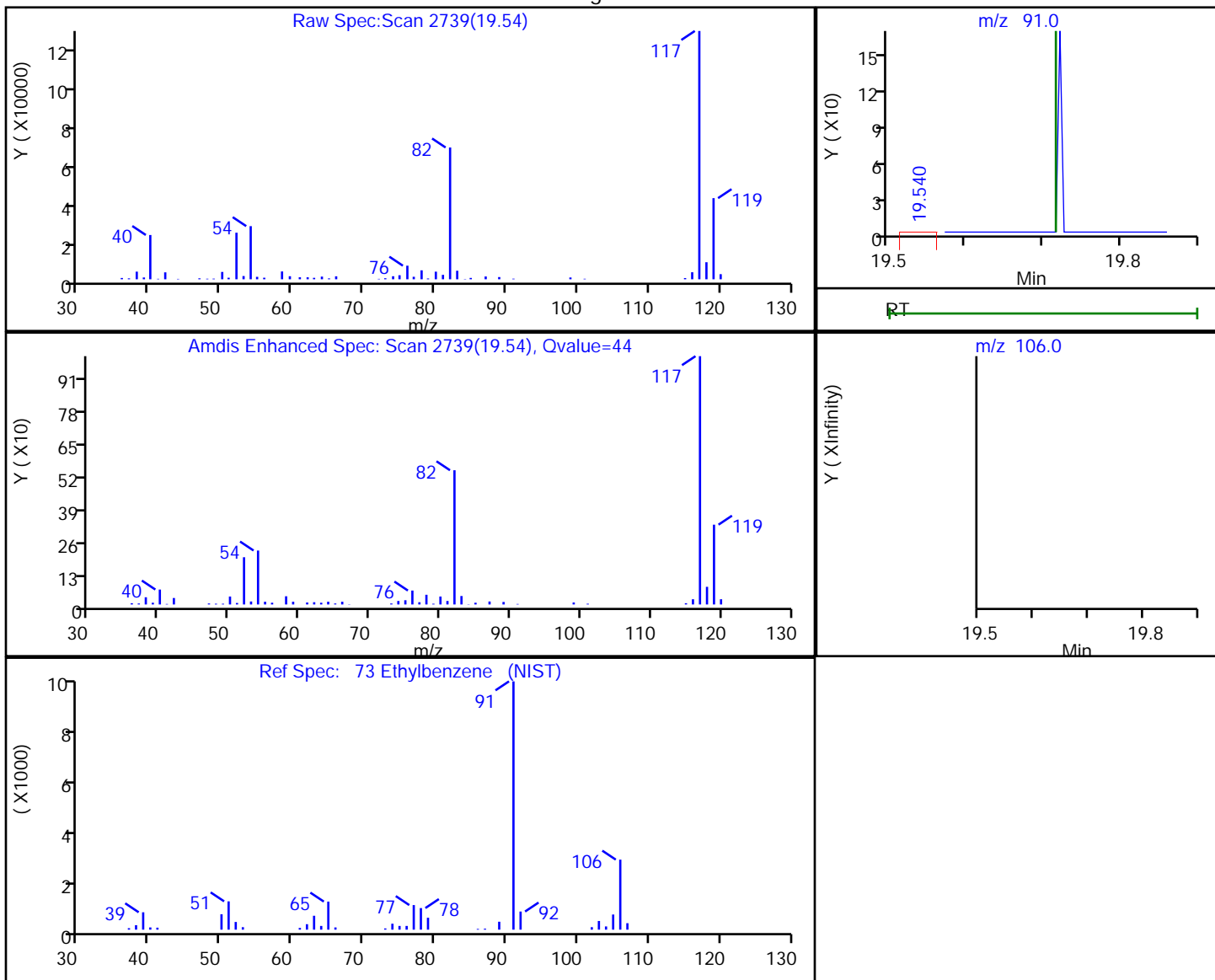
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	603	0.010890
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:10

Audit Action: Marked Compound Undetected

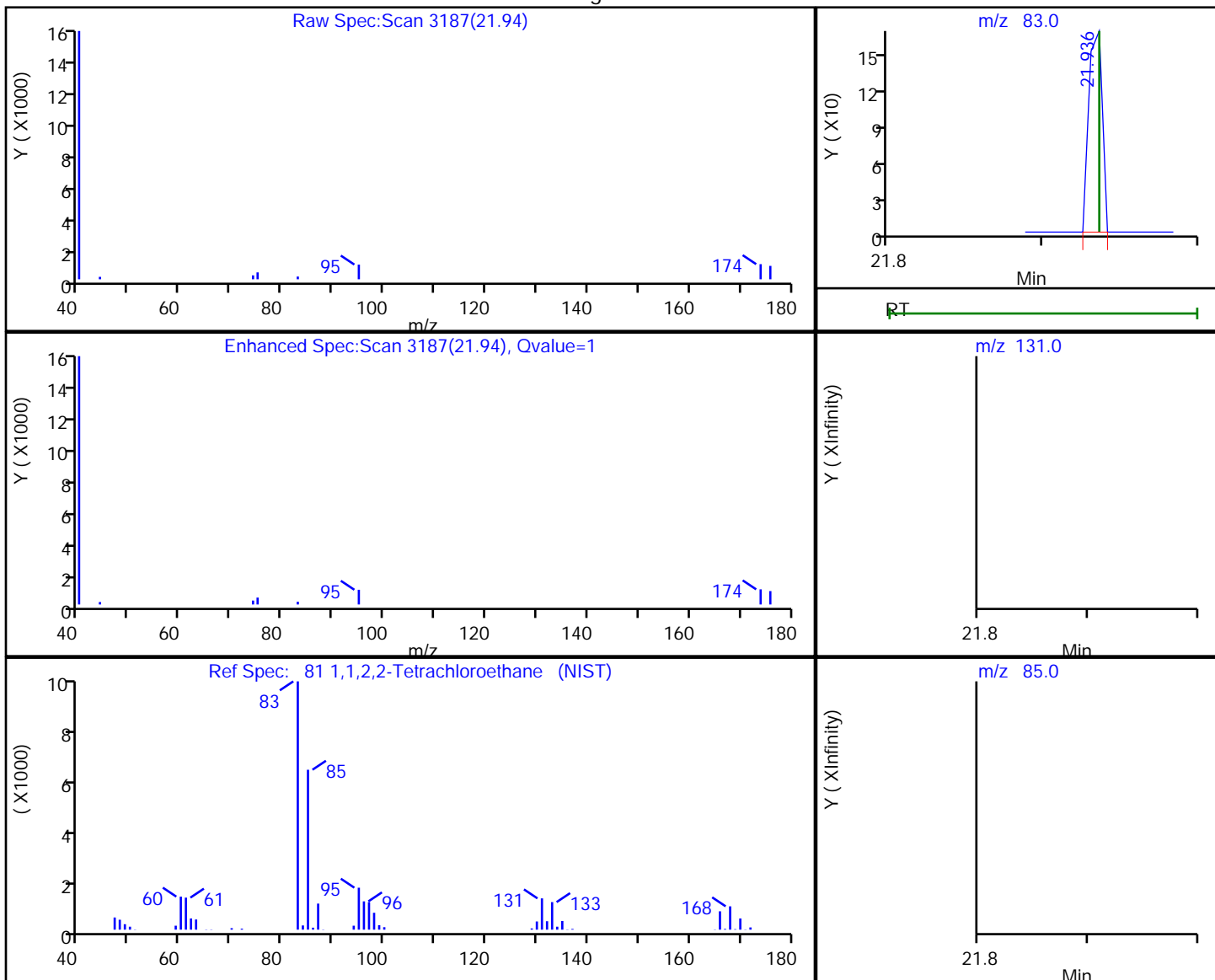
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
21.94	83.00	102	0.002836
21.94	131.00	0	
21.94	85.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

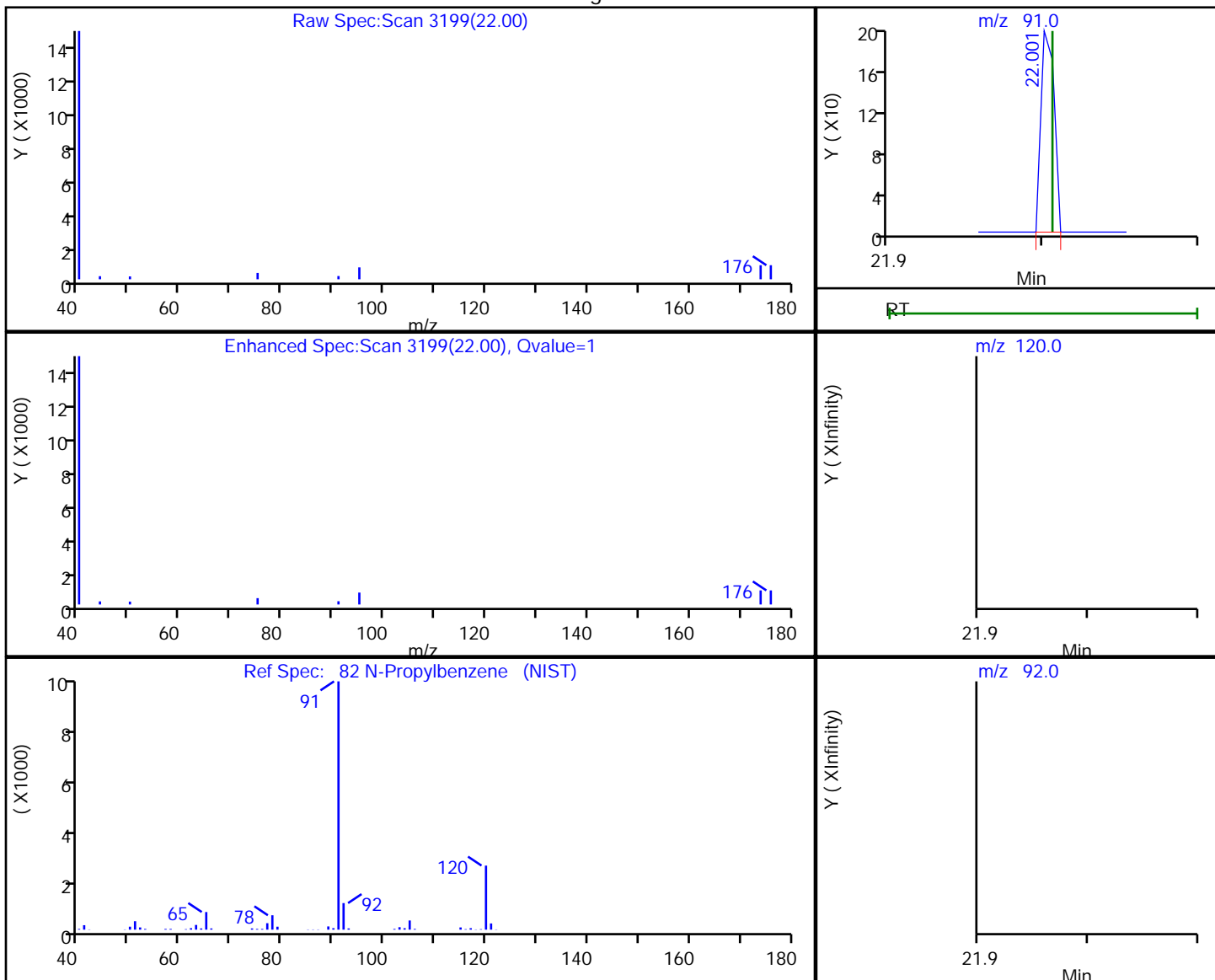


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.001542
22.01	120.00	0	
22.01	92.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:23

Audit Action: Marked Compound Undetected

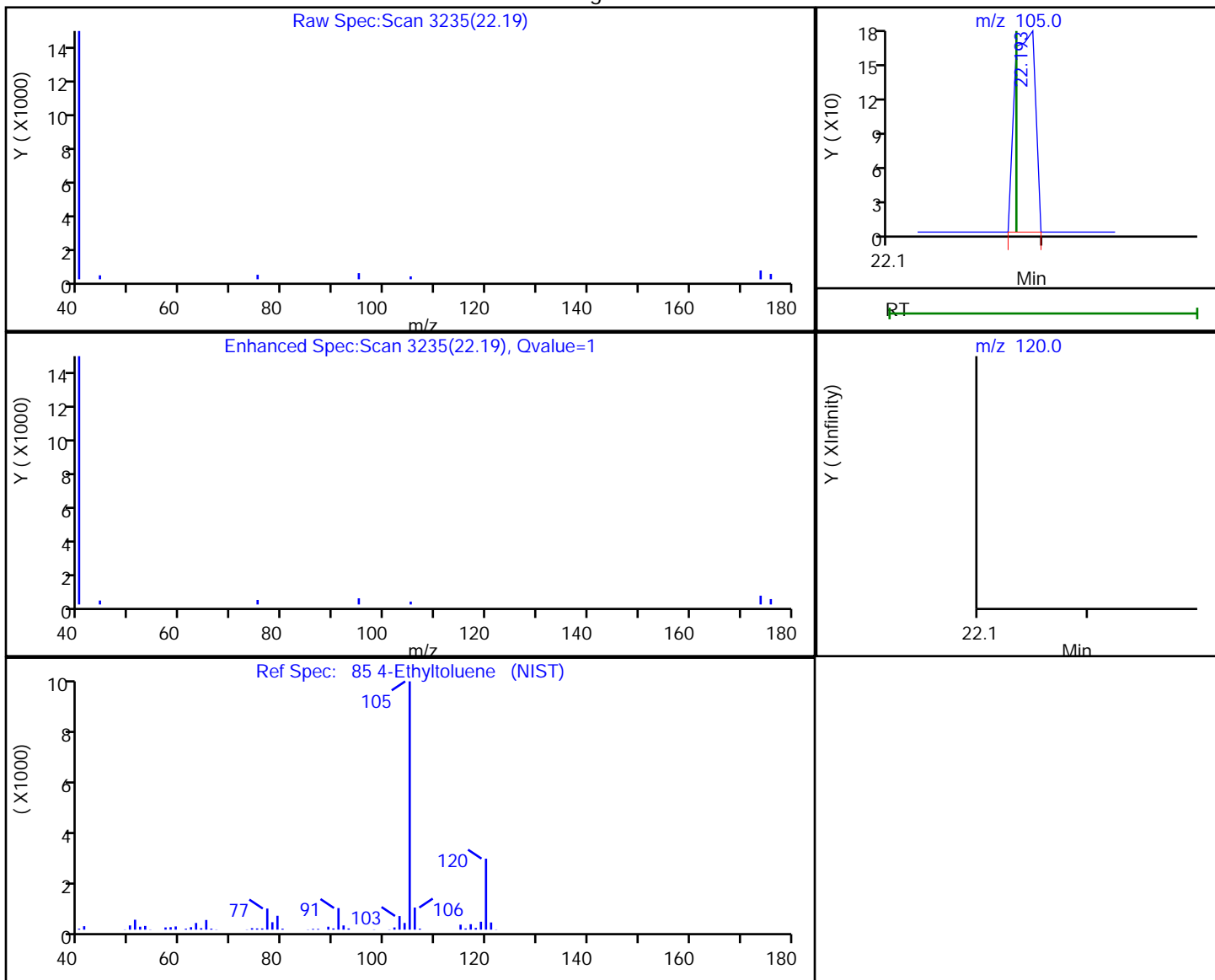
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002516
22.18	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:39

Audit Action: Marked Compound Undetected

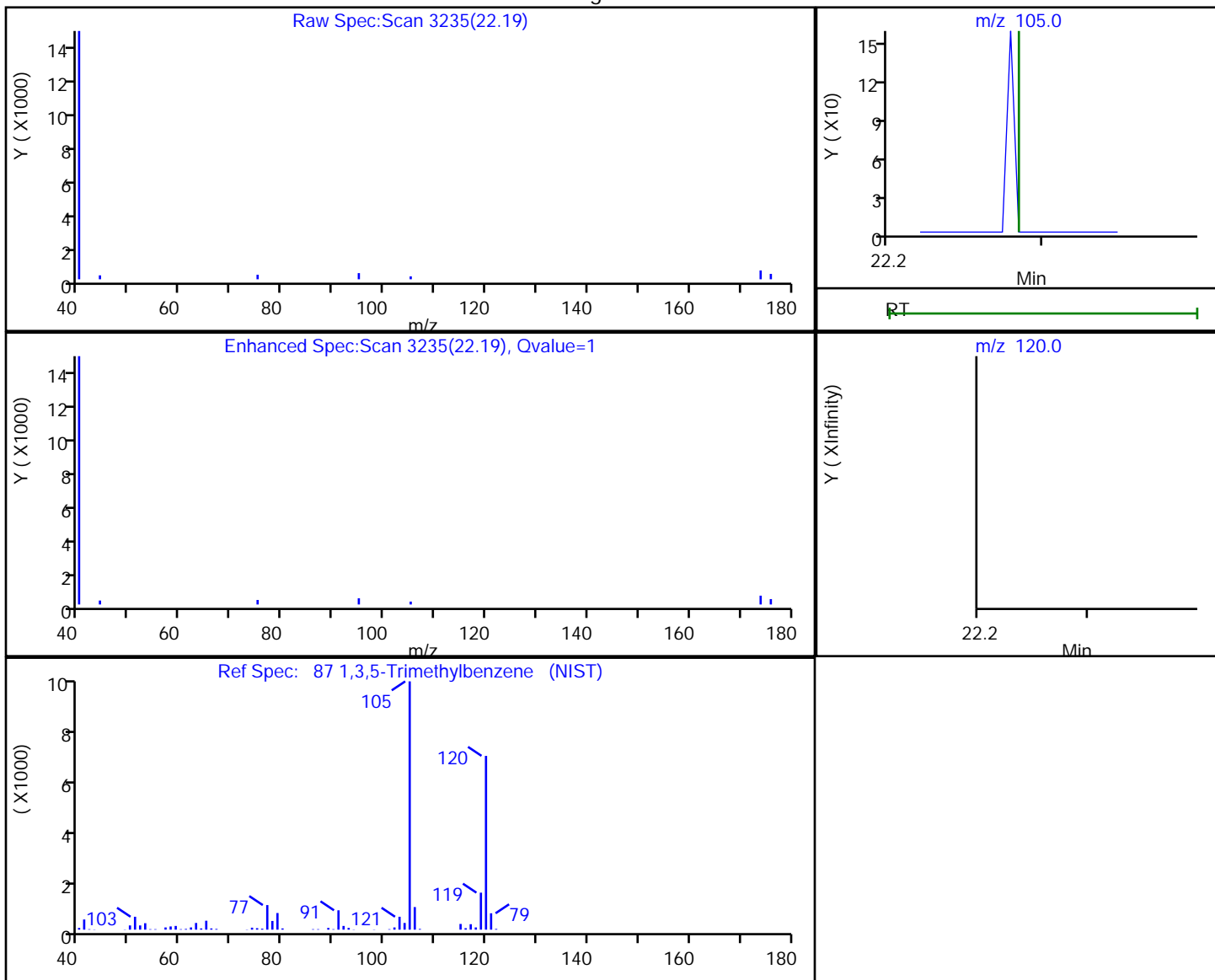
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002964
22.28	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:52

Audit Action: Marked Compound Undetected

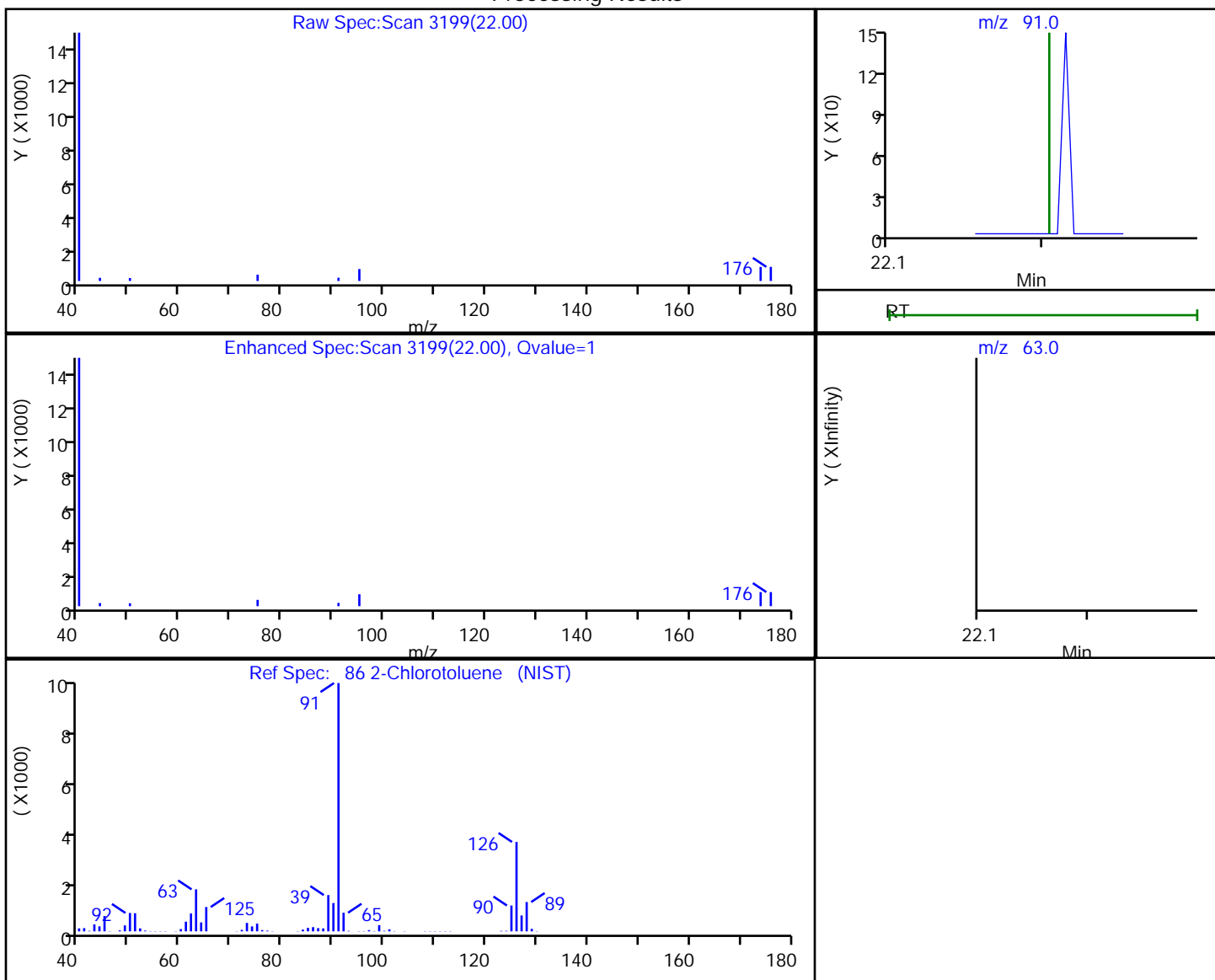
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.002064
22.20	63.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:51

Audit Action: Marked Compound Undetected

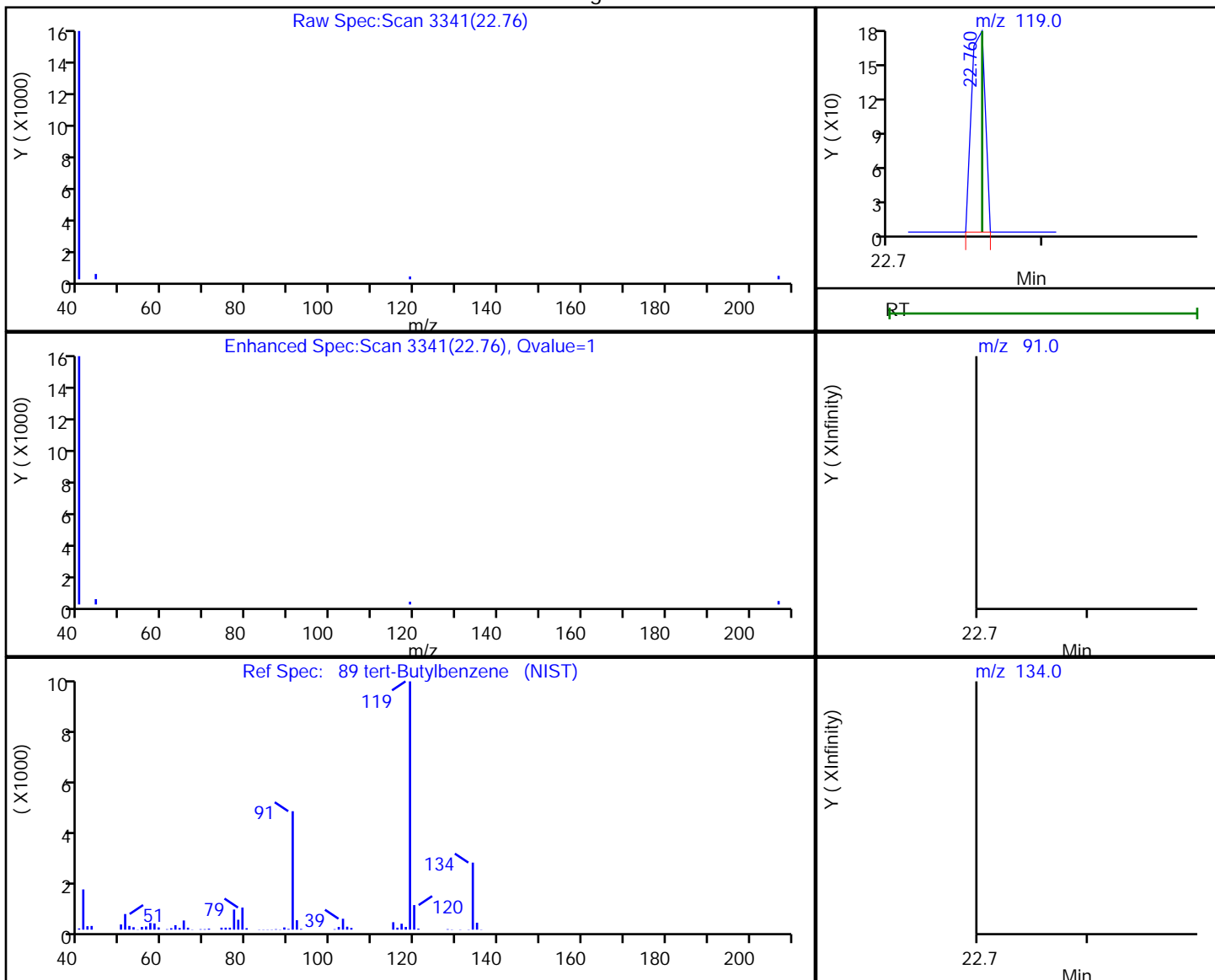
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.76	119.00	108	0.002124
22.76	91.00	0	
22.76	134.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:57

Audit Action: Marked Compound Undetected

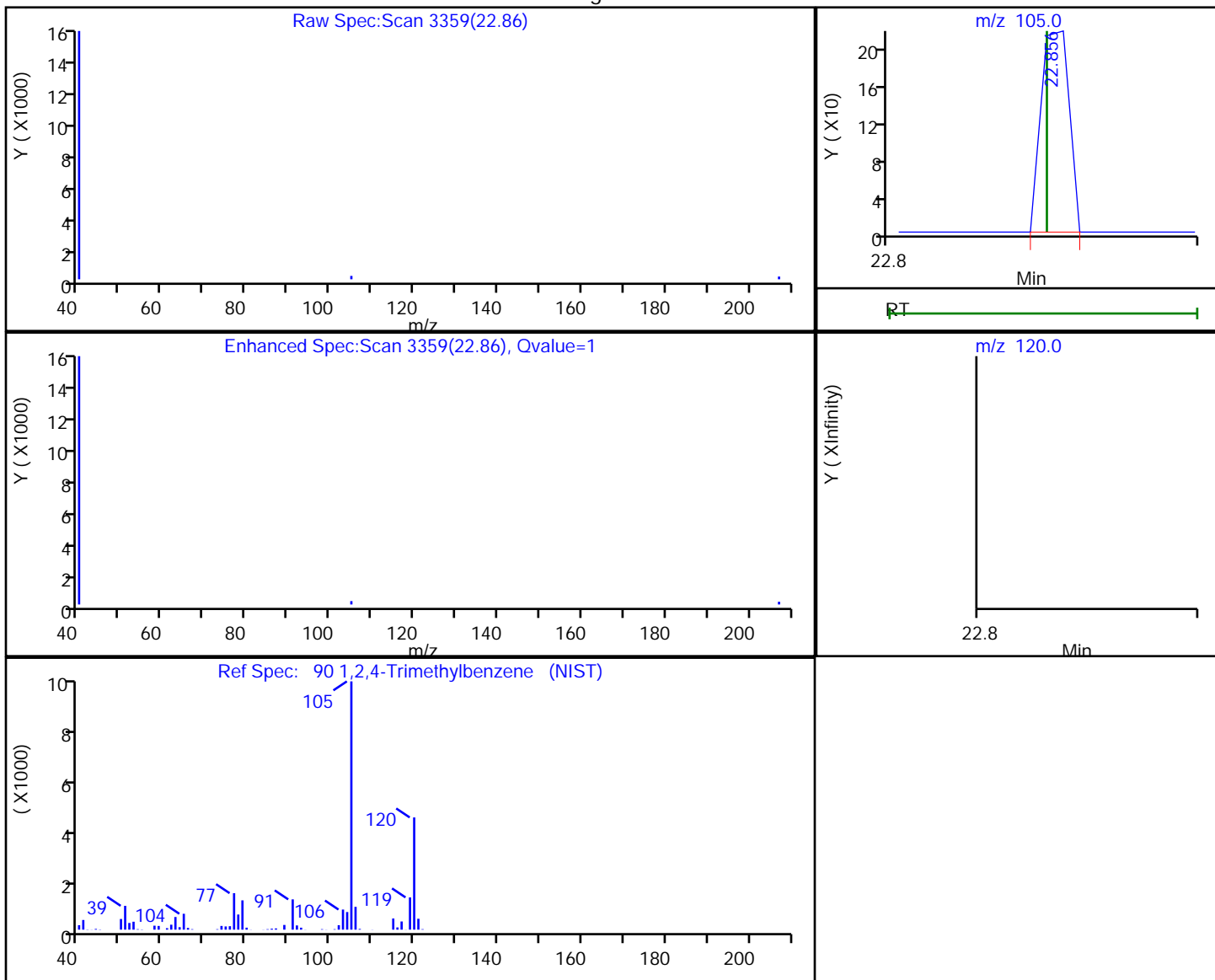
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
22.86	105.00	135	0.002651
22.85	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:58

Audit Action: Marked Compound Undetected

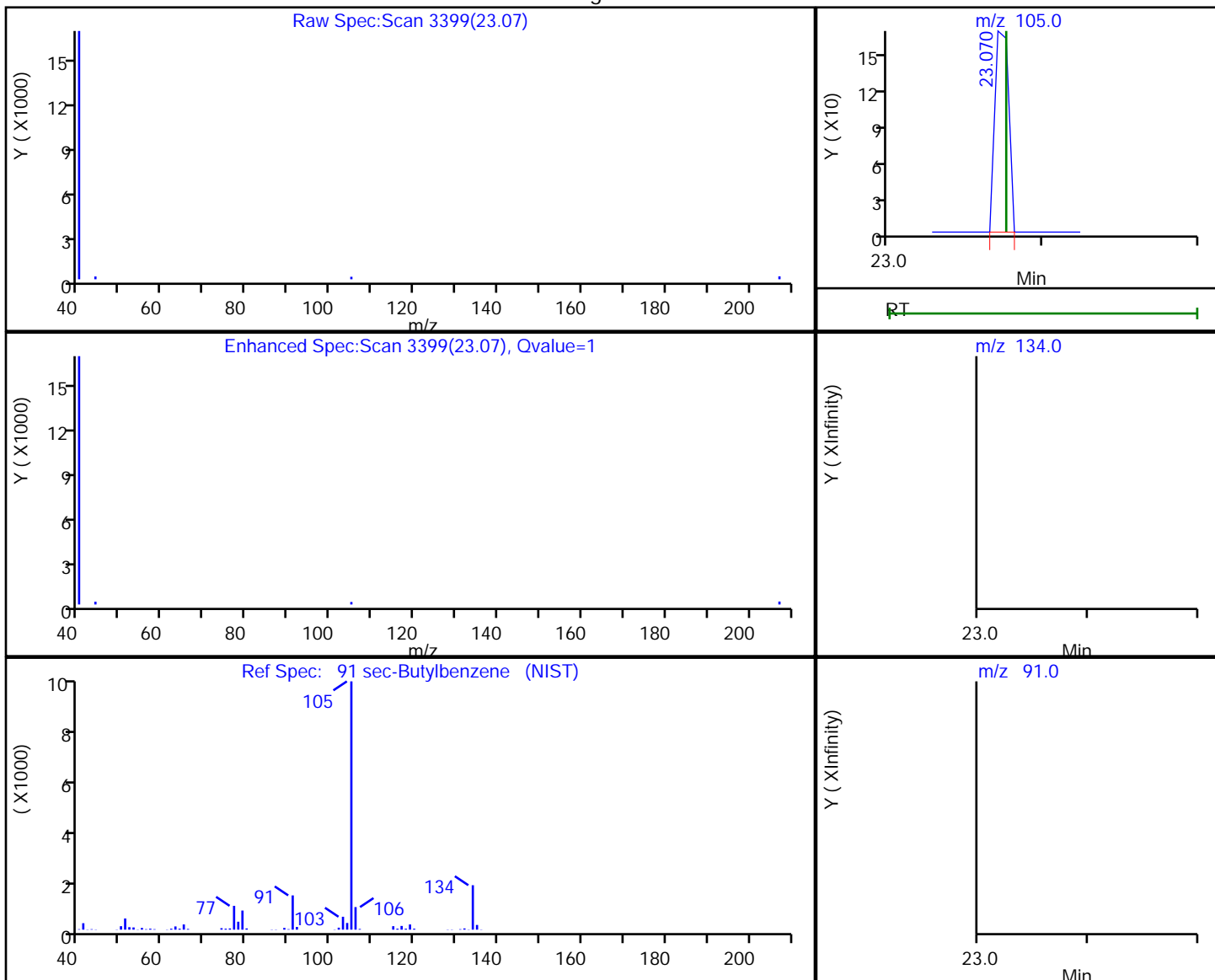
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

91 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
23.07	105.00	101	0.001288
23.08	134.00	0	
23.08	91.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:59

Audit Action: Marked Compound Undetected

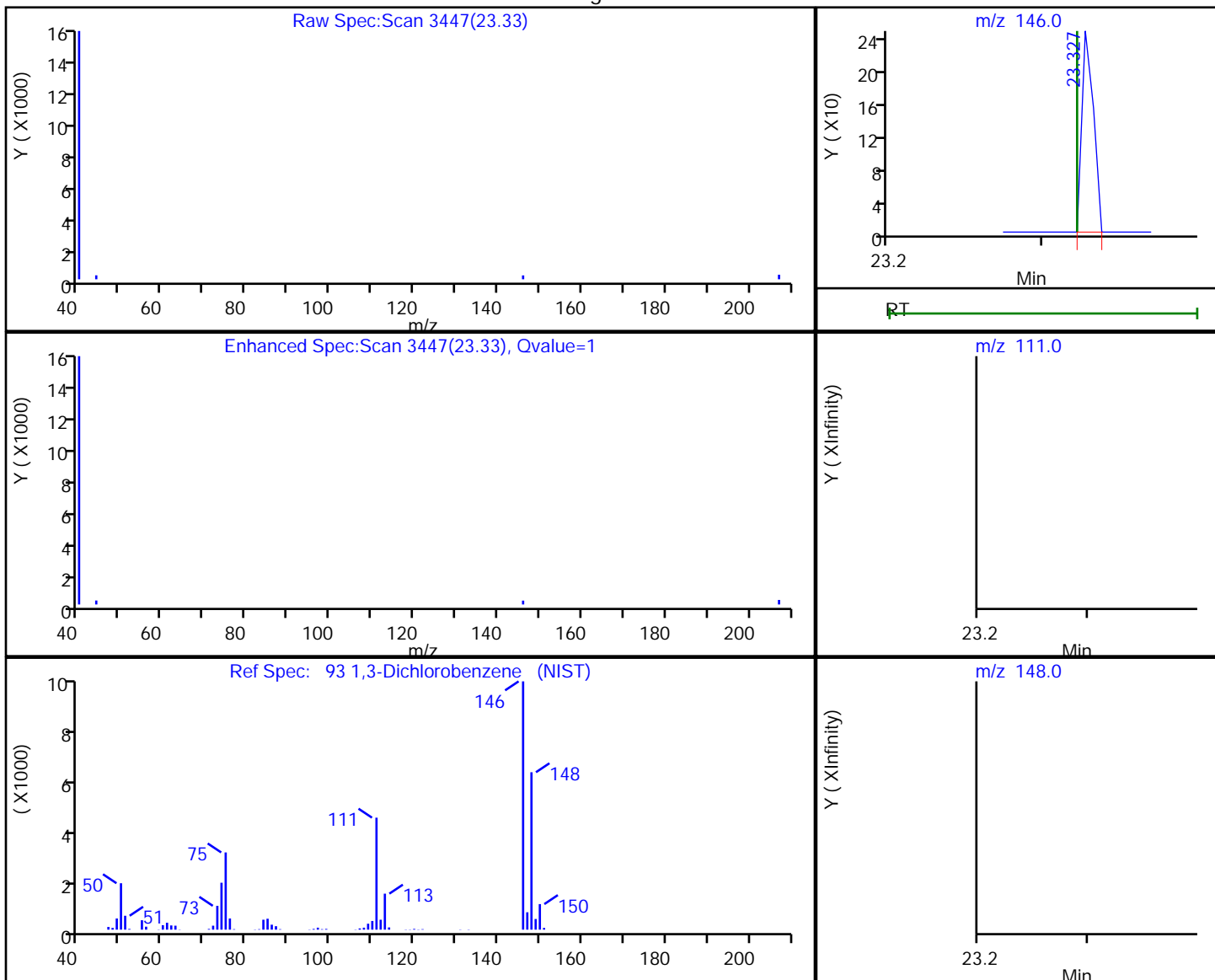
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003733
23.32	111.00	0	
23.32	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

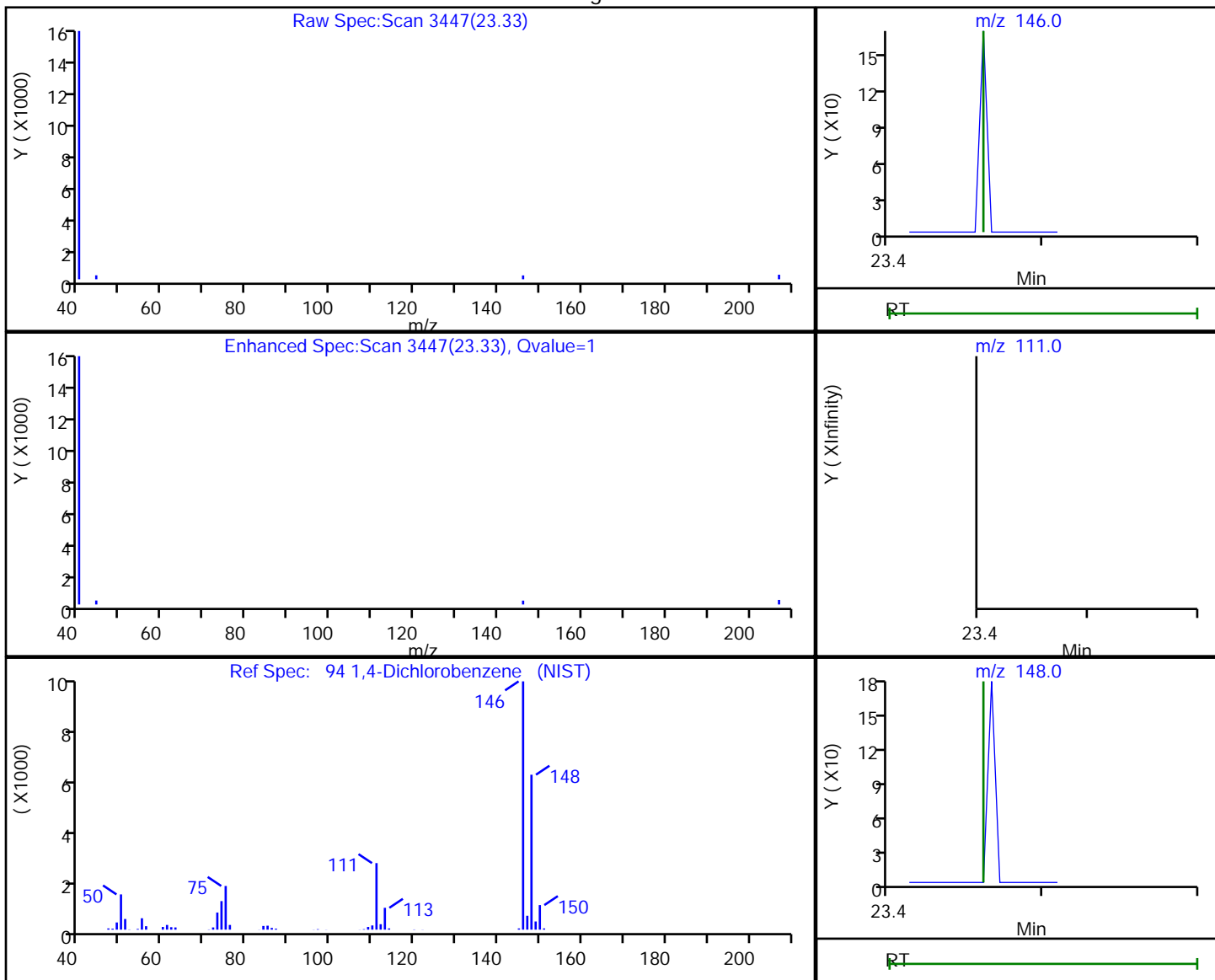


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003913
23.46	111.00	0	
23.46	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:05

Audit Action: Marked Compound Undetected

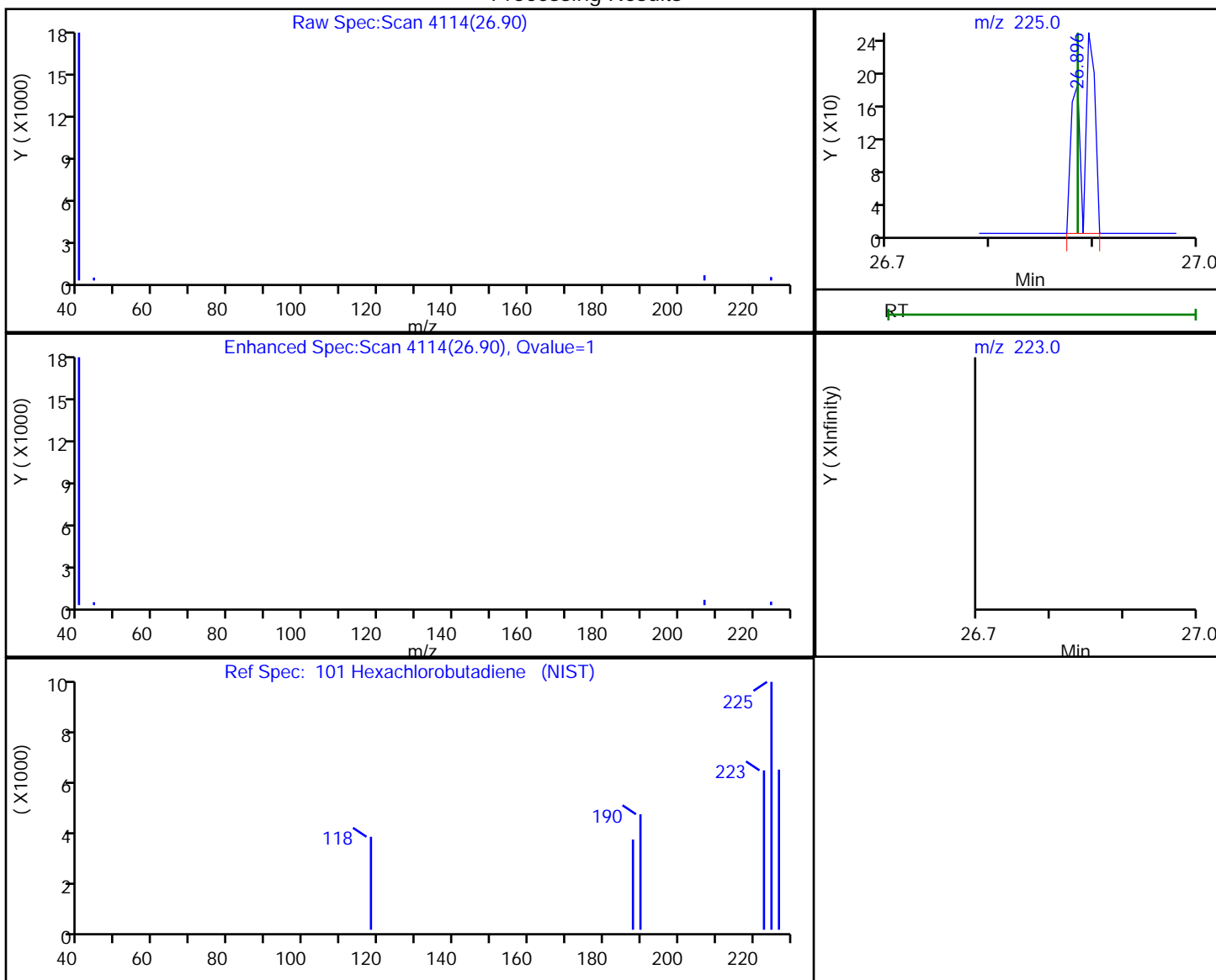
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



Reviewer: puangmaleek, 12-Sep-2018 13:10:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-04.d Lab Sample ID: MB 200-133921/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHW.i Date Analyzed: 09/11/2018 14:32  
 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 200-133921/3	32143-03.d	09/11/2018 13:37
5065	200-45175-12	32143-14.d	09/11/2018 23:30

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-04.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Sep-2018 14:32:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0032143-004  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:10:47 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek

Date: 12-Sep-2018 13:10:47

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		5.042					ND	U
2 Dichlorodifluoromethane	85		5.154					ND	
3 Chlorodifluoromethane	51		5.235					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556					ND	
5 Chloromethane	50		5.753					ND	
6 Butane	43		6.021					ND	
7 Vinyl chloride	62		6.080					ND	
8 Butadiene	54		6.171					ND	
9 Bromomethane	94		6.963					ND	
11 Chloroethane	64		7.219					ND	
12 2-Methylbutane	43		7.289					ND	
13 Vinyl bromide	106		7.626					ND	
14 Trichlorofluoromethane	101		7.717					ND	
15 Pentane	43		7.851					ND	
16 Ethanol	45		8.225					ND	
17 Ethyl ether	59		8.327					ND	
T 18 Methyl Acetate TIC	43		8.560					ND	
19 Acrolein	56		8.712					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723					ND	
21 1,1-Dichloroethene	96		8.787					ND	
22 Acetone	43	9.001	8.979	0.022	97	8852		0.4433	
23 Carbon disulfide	76		9.183					ND	
24 Isopropyl alcohol	45	9.199	9.188	0.011	98	10341		0.4901	
25 3-Chloro-1-propene	41		9.488					ND	U
26 Acetonitrile	41		9.605					ND	
27 Methylene Chloride	49		9.744					ND	U
28 2-Methyl-2-propanol	59		9.867					ND	
29 Methyl tert-butyl ether	73		10.076					ND	
30 trans-1,2-Dichloroethene	61		10.140					ND	
S 31 1,2-Dichloroethene, Total	61		10.200					ND	
32 Acrylonitrile	53		10.274					ND	
33 Hexane	57		10.467					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63		10.932					ND	
35 Vinyl acetate	43		10.959					ND	
36 cis-1,2-Dichloroethene	96		11.938					ND	
37 2-Butanone (MEK)	72		11.948					ND	
38 Ethyl acetate	88		11.959					ND	
39 Tetrahydrofuran	42		12.355					ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	91	91677	10.0	10.0	
41 Chloroform	83		12.457					ND	
42 Cyclohexane	84		12.719					ND	
43 1,1,1-Trichloroethane	97		12.735					ND	
44 Carbon tetrachloride	117		12.960					ND	
45 Isooctane	57		13.307					ND	
46 Benzene	78		13.371					ND	U
47 1,2-Dichloroethane	62		13.521					ND	
48 n-Heptane	43		13.628					ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	456636	10.0	10.0	
50 n-Butanol	56		14.329					ND	
51 Trichloroethene	95		14.495					ND	
A 52 GRO	1	14.717	(7.279-22.155)		0	1767627		0	
53 1,2-Dichloropropane	63		14.982					ND	
T 54 Methyl cyclohexane TIC	55		15.012					ND	
55 Methyl methacrylate	69		15.067					ND	
56 1,4-Dioxane	88		15.153					ND	
57 Dibromomethane	174		15.212					ND	
58 Dichlorobromomethane	83		15.447					ND	
59 cis-1,3-Dichloropropene	75		16.271					ND	
A 60 TVOC as Toluene	92	16.391	(5.032-27.751)		0	2022464		67.0	
61 4-Methyl-2-pentanone (MIBK)	43		16.501					ND	
62 n-Octane	43		16.817					ND	
63 Toluene	92		16.817					ND	
64 trans-1,3-Dichloropropene	75		17.341					ND	
65 1,1,2-Trichloroethane	83		17.694					ND	
66 Tetrachloroethene	166		17.812					ND	
67 2-Hexanone	43		18.085					ND	
68 Chlorodibromomethane	129		18.422					ND	
69 Ethylene Dibromide	107		18.689					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	378094	10.0	10.0	
72 Chlorobenzene	112		19.593					ND	
73 Ethylbenzene	91		19.716					ND	U
74 n-Nonane	57		19.796					ND	
75 m-Xylene & p-Xylene	106		19.957					ND	
S 76 Xylenes, Total	106		20.100					ND	
77 o-Xylene	106		20.727					ND	
78 Styrene	104		20.770					ND	
79 Bromoform	173		21.166					ND	
80 Isopropylbenzene	105		21.332					ND	
81 1,1,2,2-Tetrachloroethane	83		21.936					ND	U
82 N-Propylbenzene	91		22.006					ND	U
83 1,2,3-Trichloropropane	75		22.038					ND	
84 n-Decane	57		22.145					ND	
85 4-Ethyltoluene	105		22.182					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
86 2-Chlorotoluene	91		22.204					ND	U
87 1,3,5-Trimethylbenzene	105		22.284					ND	U
88 Alpha Methyl Styrene	118		22.637					ND	
89 tert-Butylbenzene	119		22.760					ND	U
90 1,2,4-Trimethylbenzene	105		22.851					ND	U
91 sec-Butylbenzene	105		23.076					ND	U
92 4-Isopropyltoluene	119		23.274					ND	
93 1,3-Dichlorobenzene	146		23.322					ND	U
94 1,4-Dichlorobenzene	146		23.461					ND	U
95 Benzyl chloride	91		23.664					ND	
97 Undecane	57		23.873					ND	
96 n-Butylbenzene	91		23.873					ND	
98 1,2-Dichlorobenzene	146		24.023					ND	
99 Dodecane	57		25.558					ND	
100 1,2,4-Trichlorobenzene	180		26.698					ND	
101 Hexachlorobutadiene	225		26.885					ND	U
102 Naphthalene	128		27.227					ND	
103 1,2,3-Trichlorobenzene	180		27.741					ND	
T 104 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 105 Methyl acetylene TIC	1		0.000					ND	
106 Total Alkanes	1		0.000					ND	
T 107 1,3-Dichloropropane TIC	1		0.000					ND	
T 108 Freon 115 TIC	1		0.000					ND	
T 109 Difluoroethane TIC	1		0.000					ND	
T 110 Chlorotrifluoroethene TIC	1		0.000					ND	
T 111 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d

Injection Date: 11-Sep-2018 14:32:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

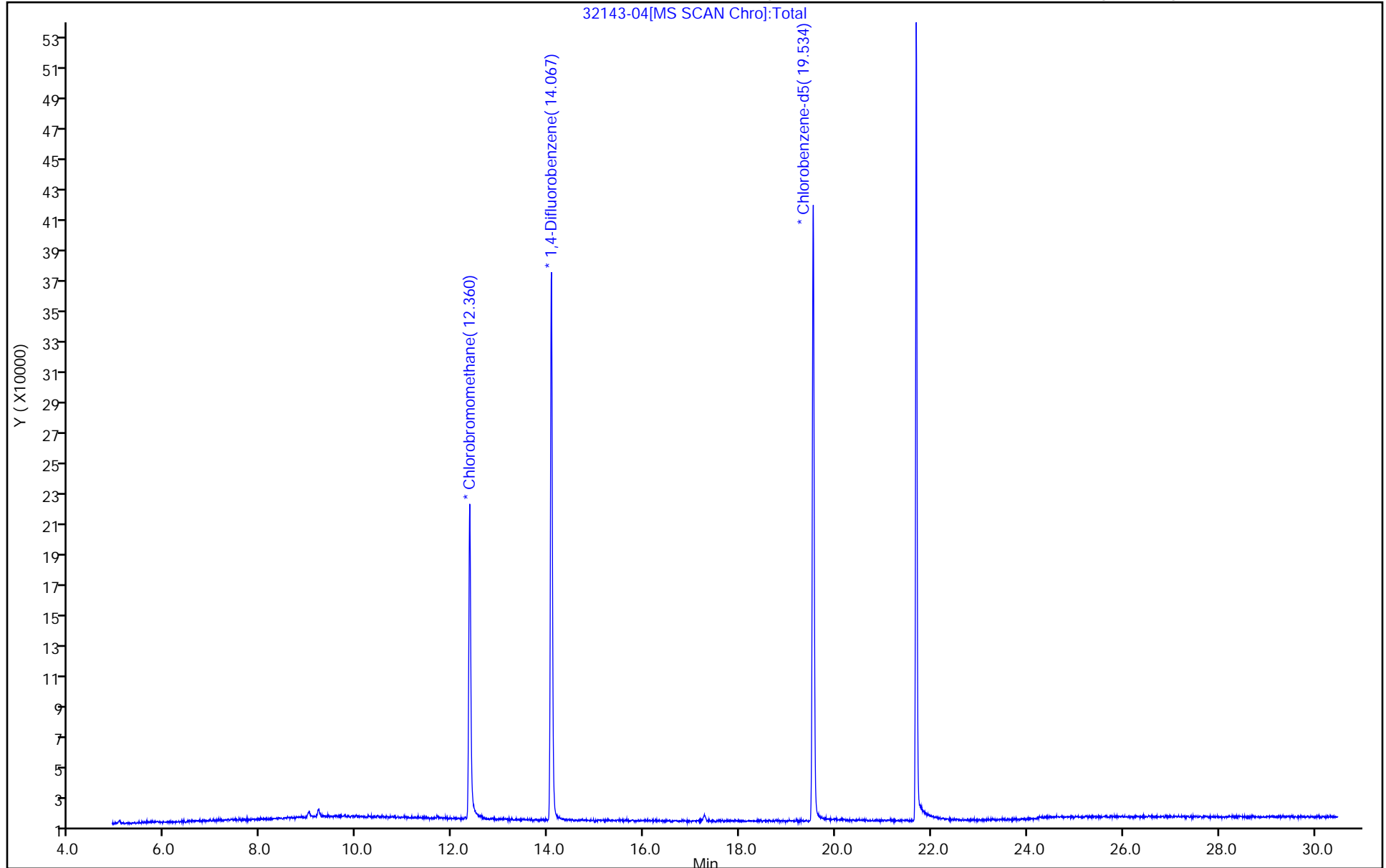
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

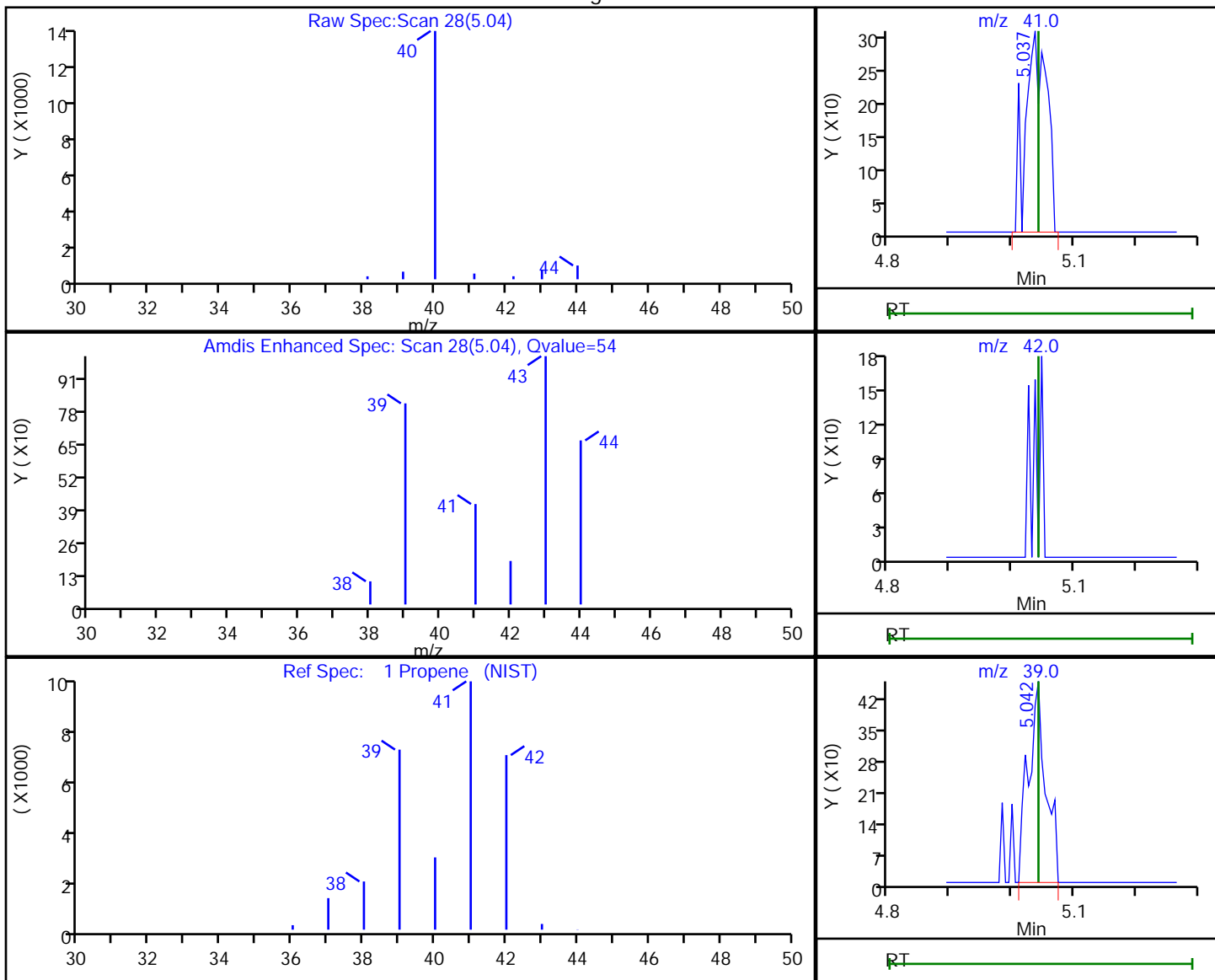


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
5.04	41.00	716	0.064441
5.04	42.00	0	
5.04	39.00	890	

Reviewer: puangmaleek, 12-Sep-2018 13:07:42

Audit Action: Marked Compound Undetected

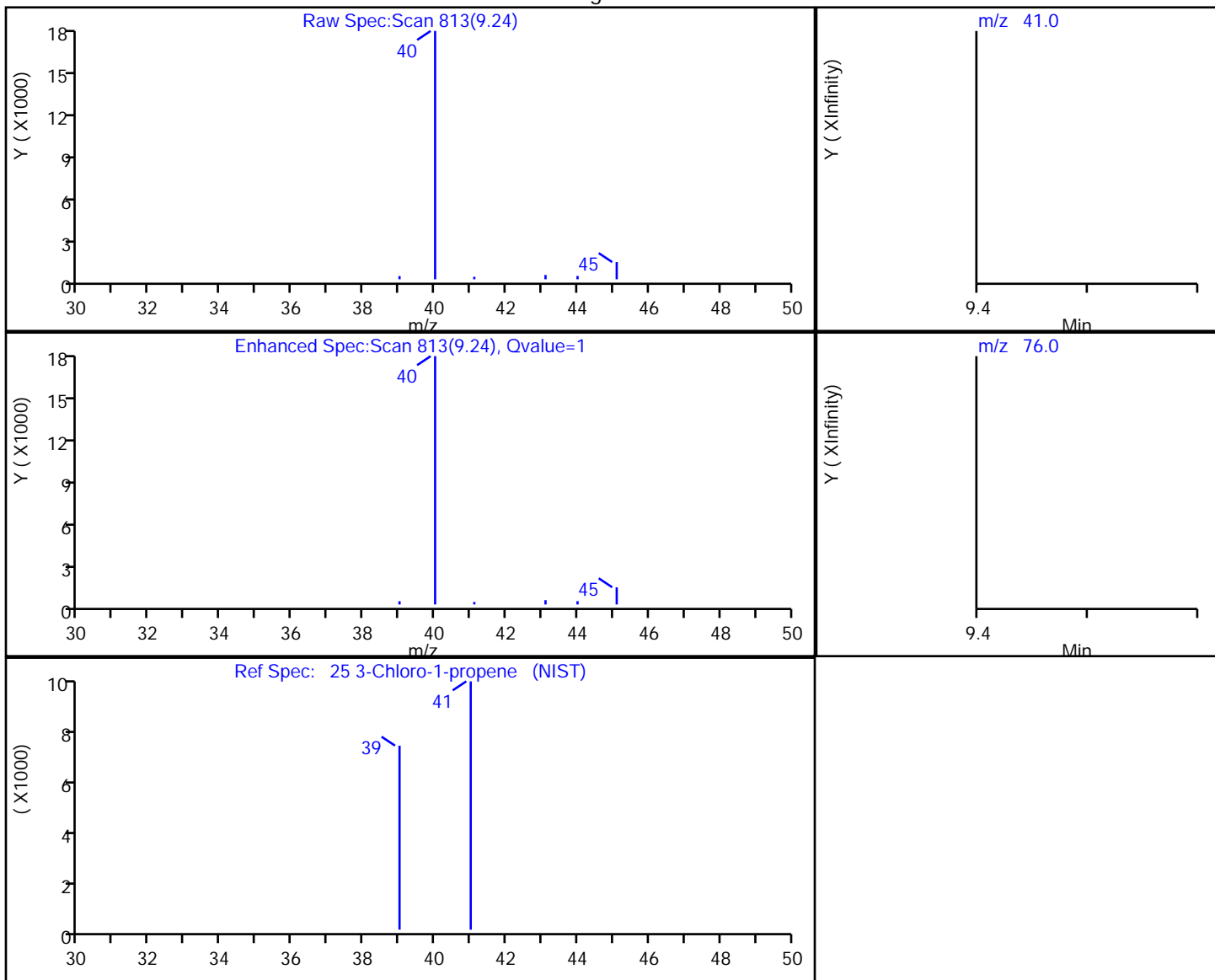
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
9.24	41.00	108	0.007141
9.49	76.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:07:53

Audit Action: Marked Compound Undetected

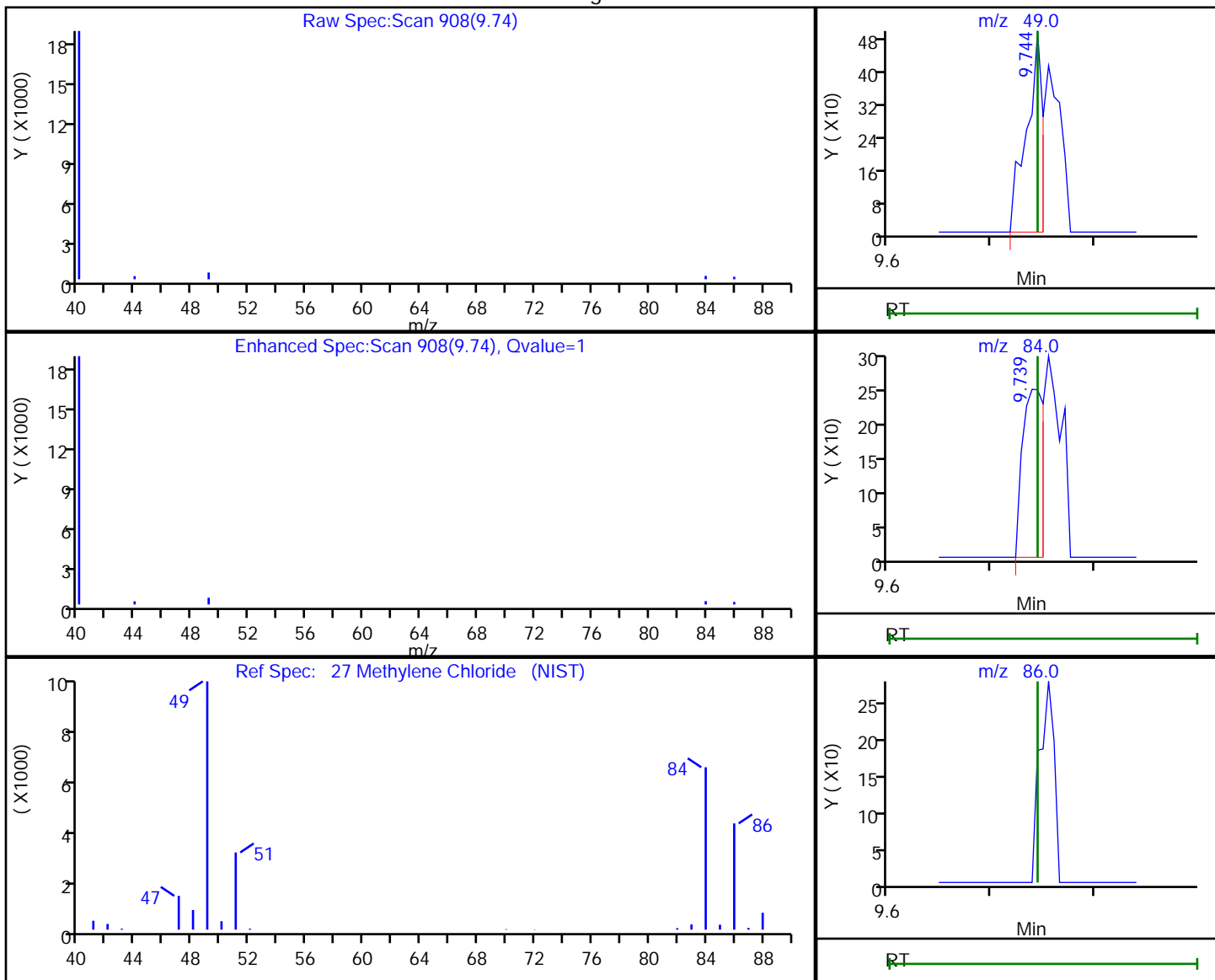
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	529	0.033234
9.74	84.00	347	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:09

Audit Action: Marked Compound Undetected

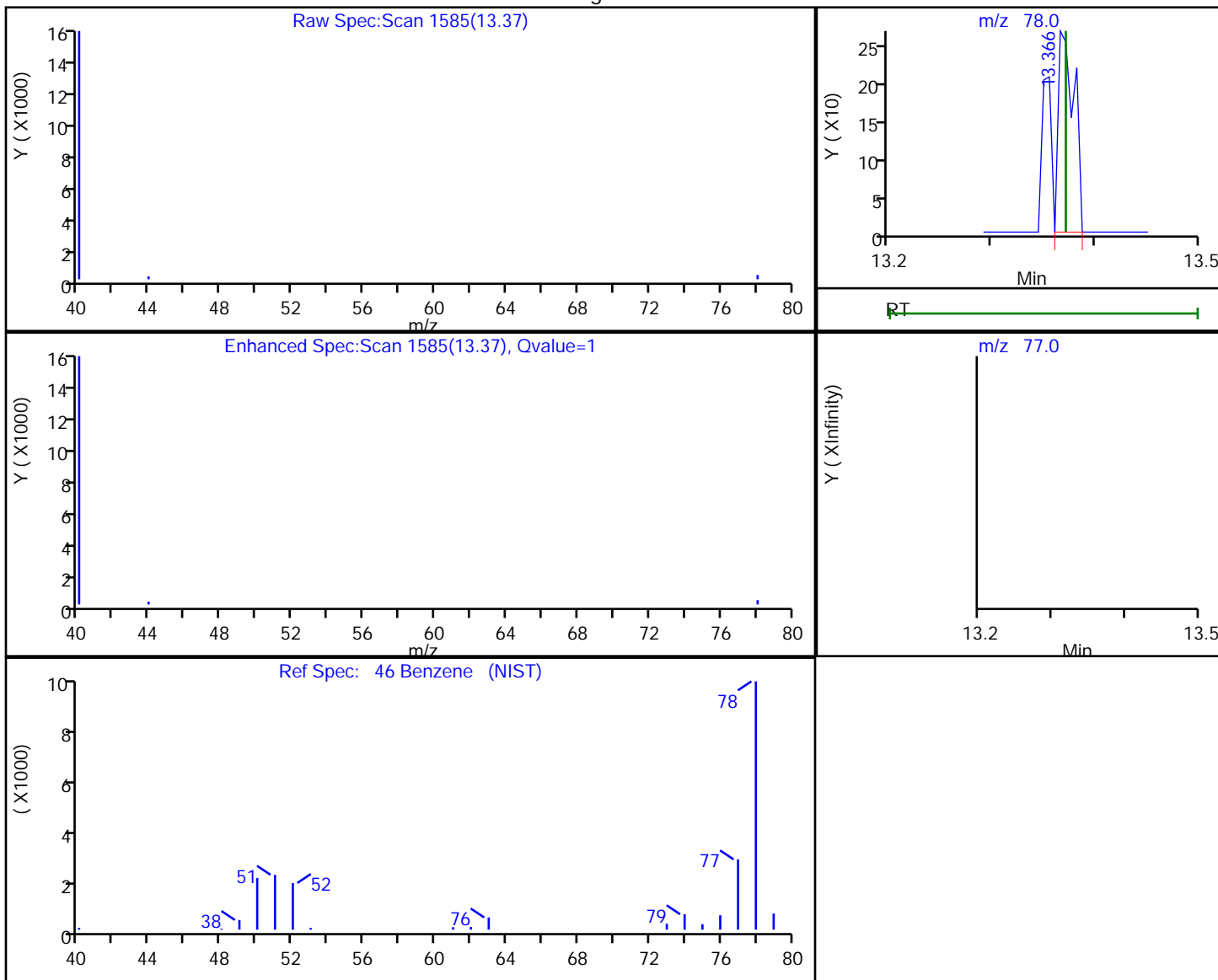
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
13.37	78.00	285	0.006898
13.37	77.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:40

Audit Action: Marked Compound Undetected

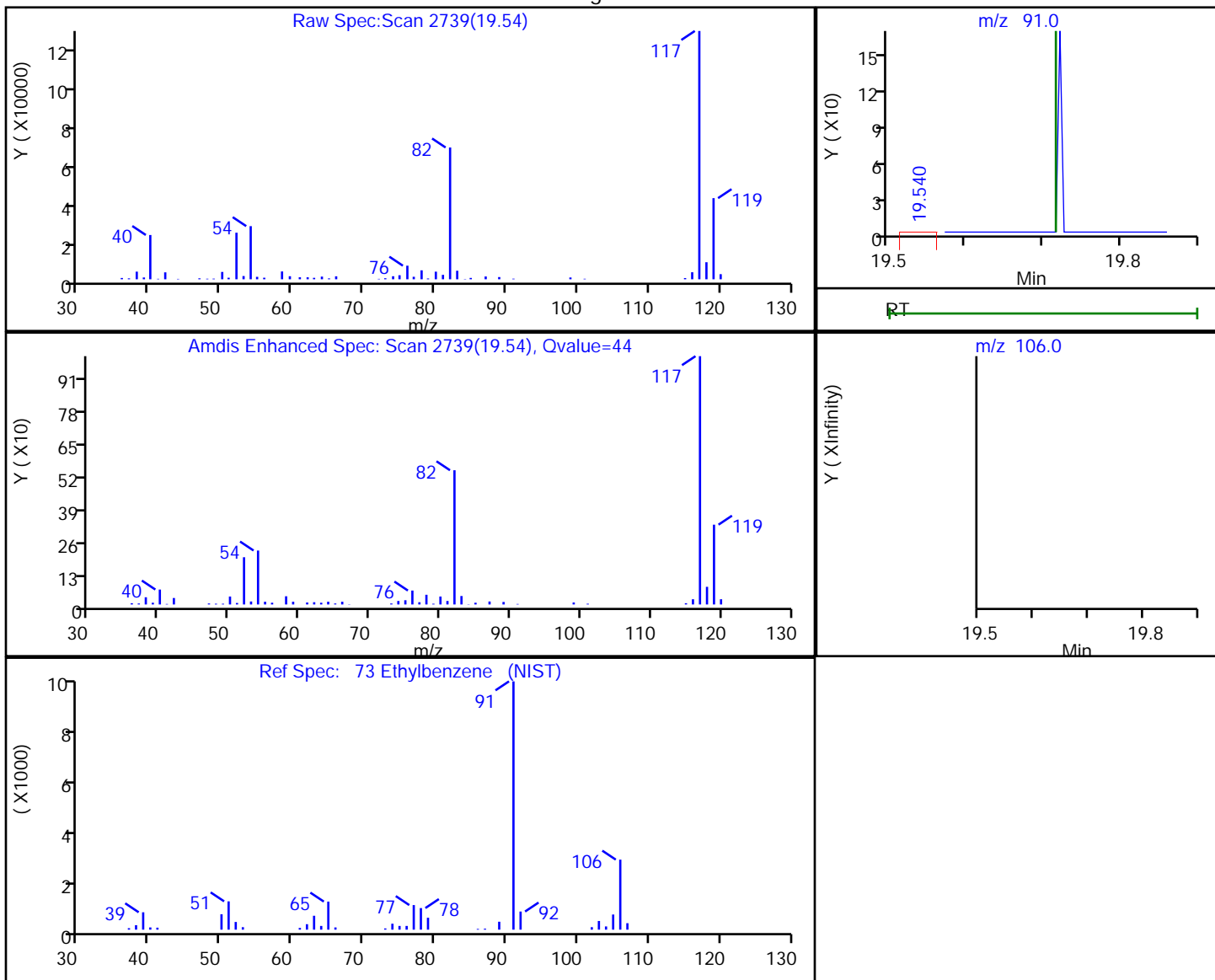
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	603	0.010890
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:10

Audit Action: Marked Compound Undetected

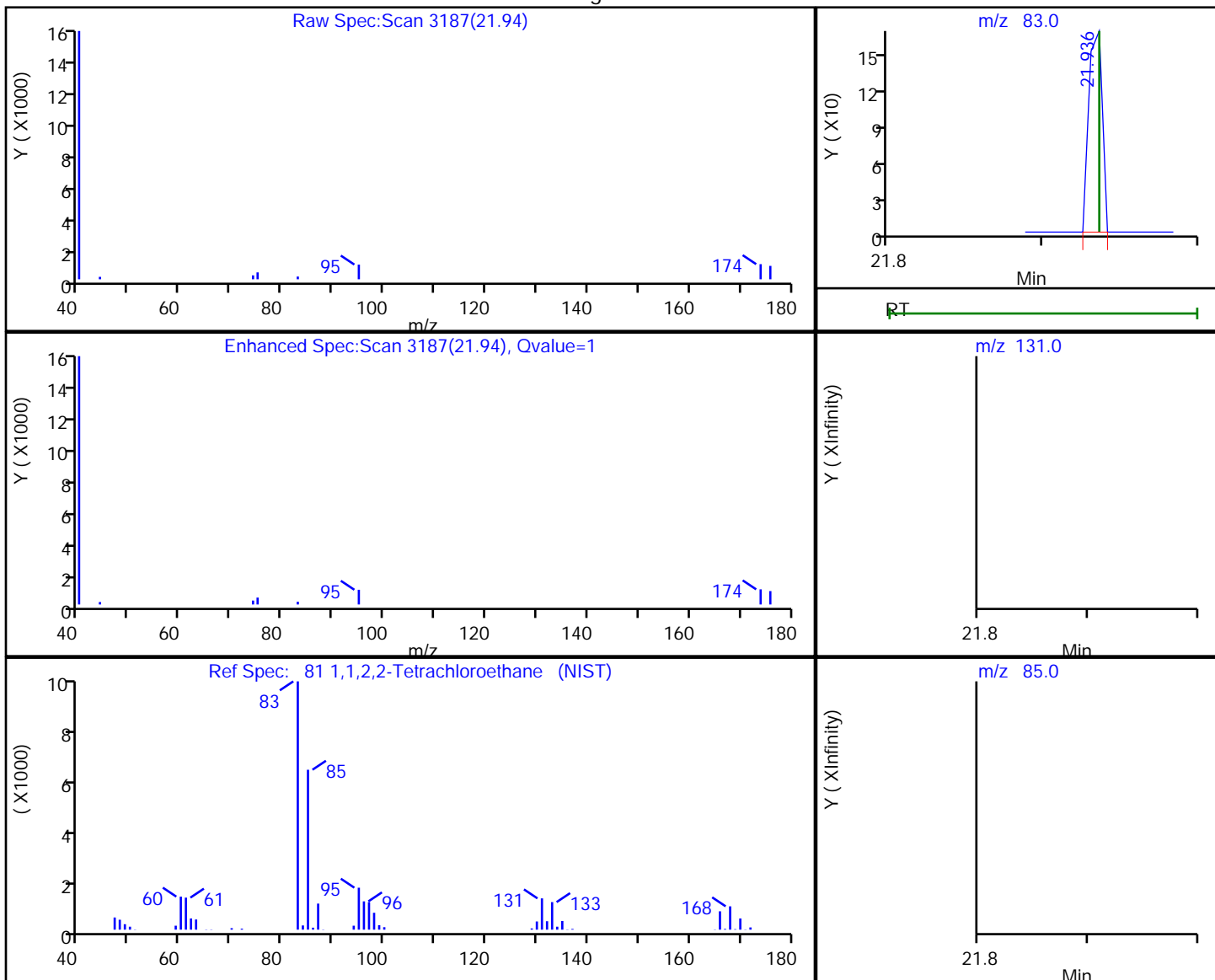
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

81 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
21.94	83.00	102	0.002836
21.94	131.00	0	
21.94	85.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:18

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

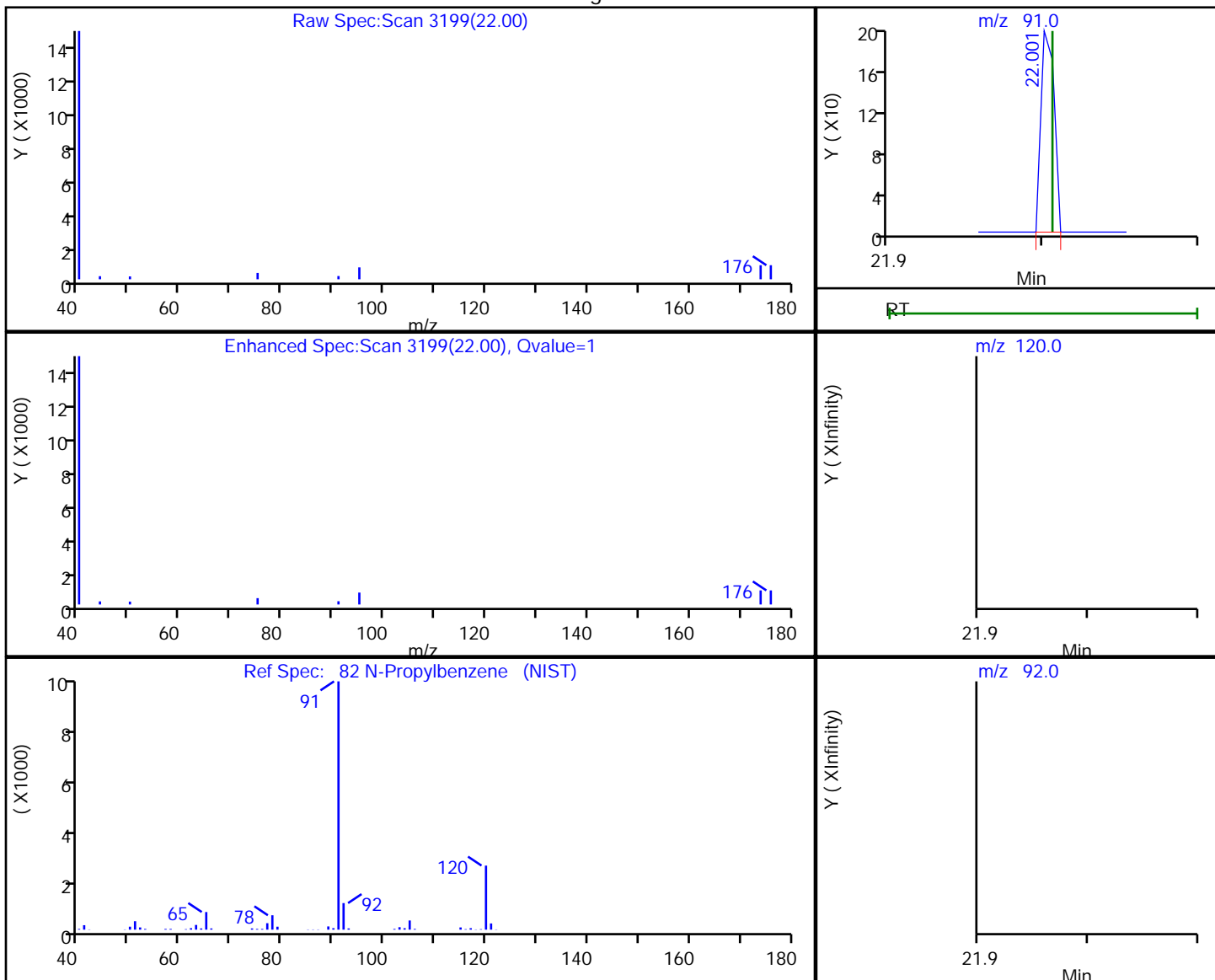


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.001542
22.01	120.00	0	
22.01	92.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:23

Audit Action: Marked Compound Undetected

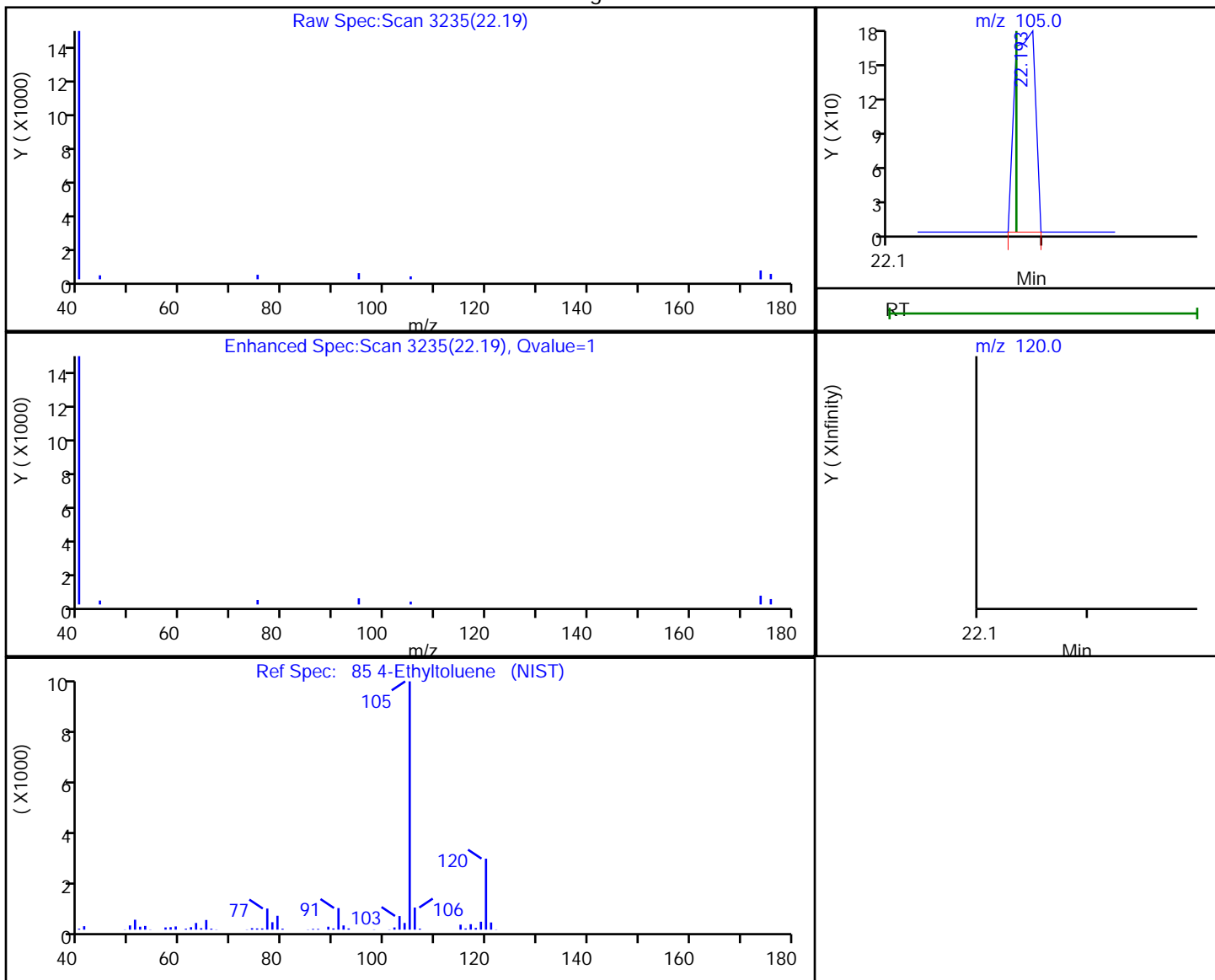
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002516
22.18	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:39

Audit Action: Marked Compound Undetected

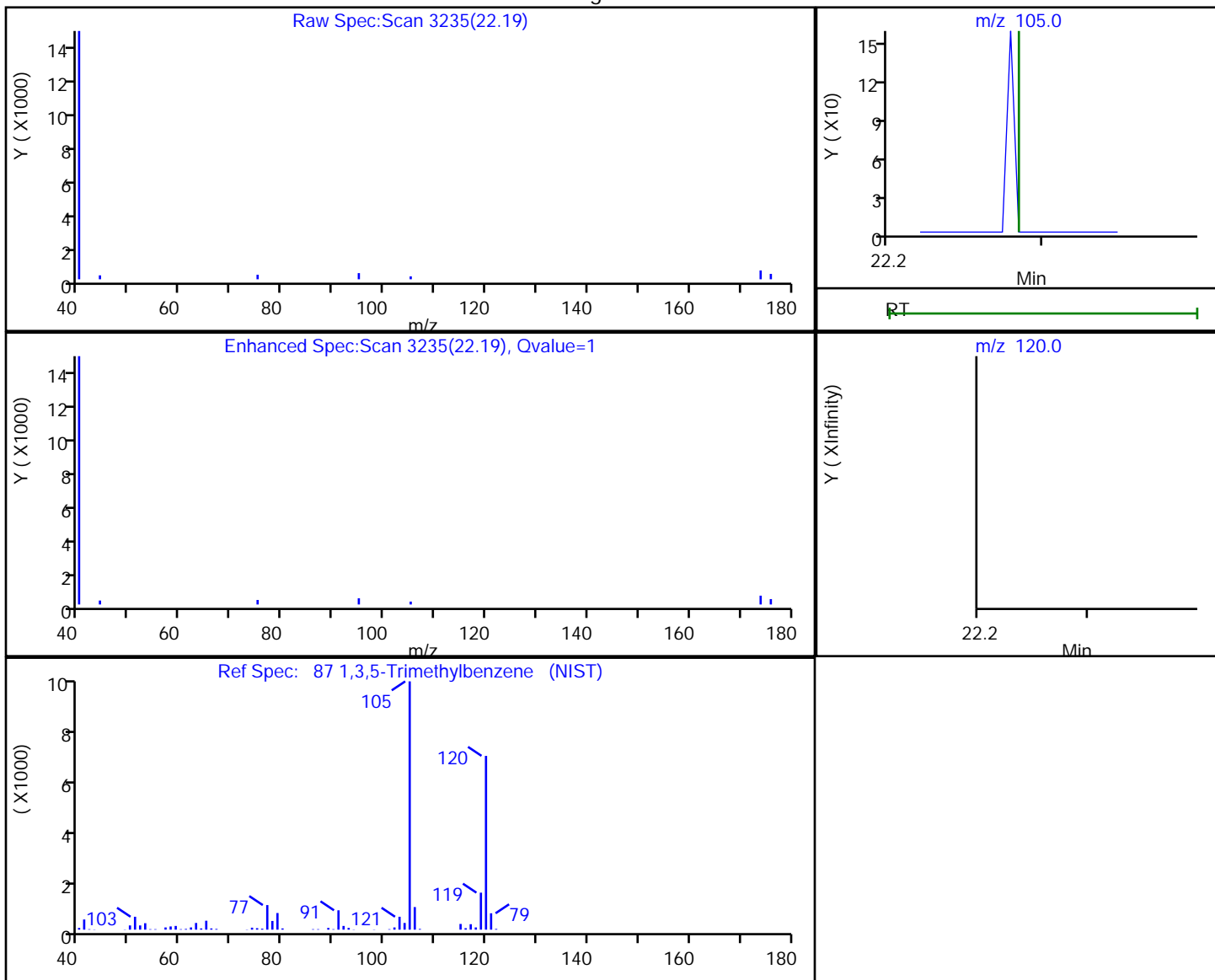
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002964
22.28	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:52

Audit Action: Marked Compound Undetected

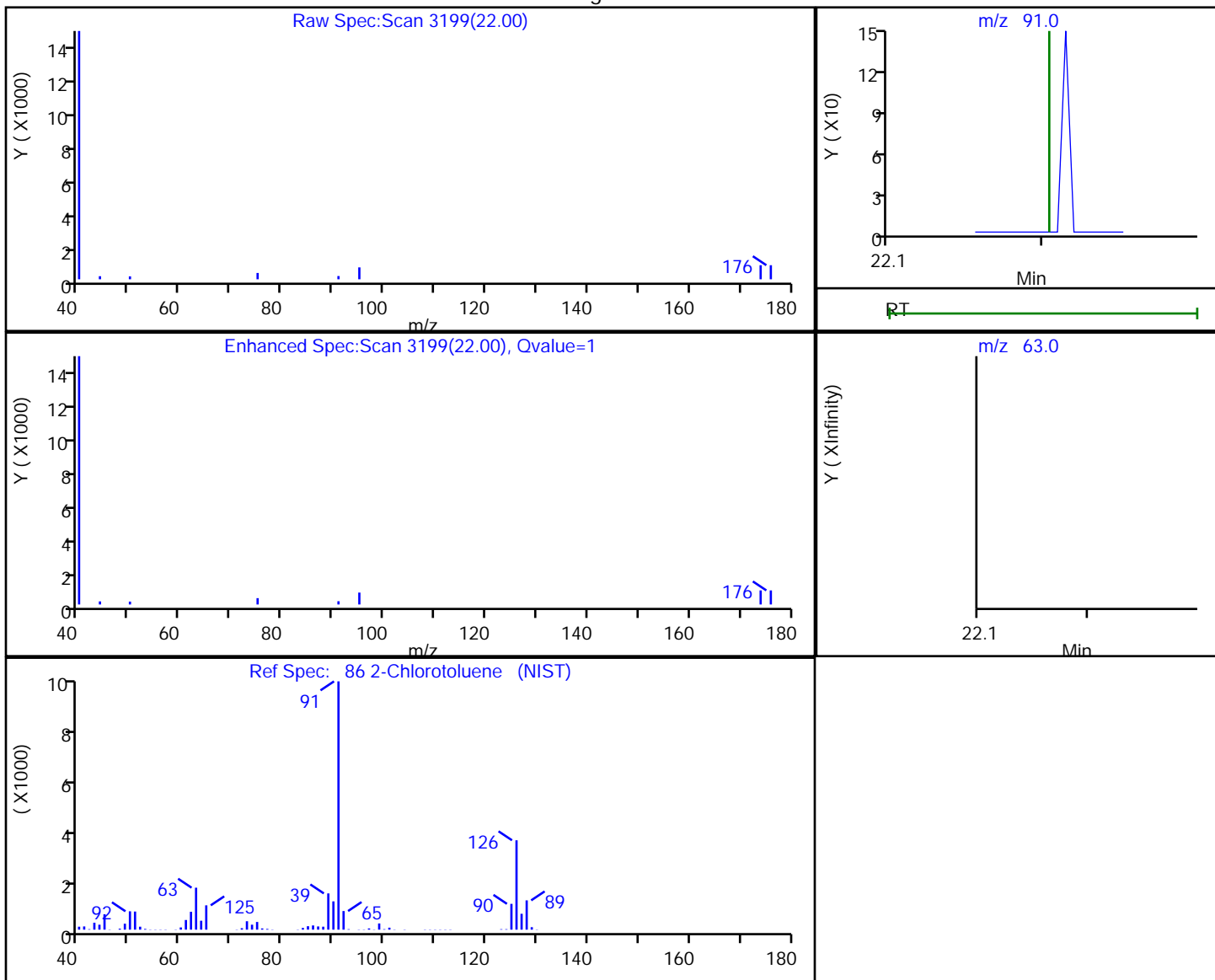
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.002064
22.20	63.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:51

Audit Action: Marked Compound Undetected

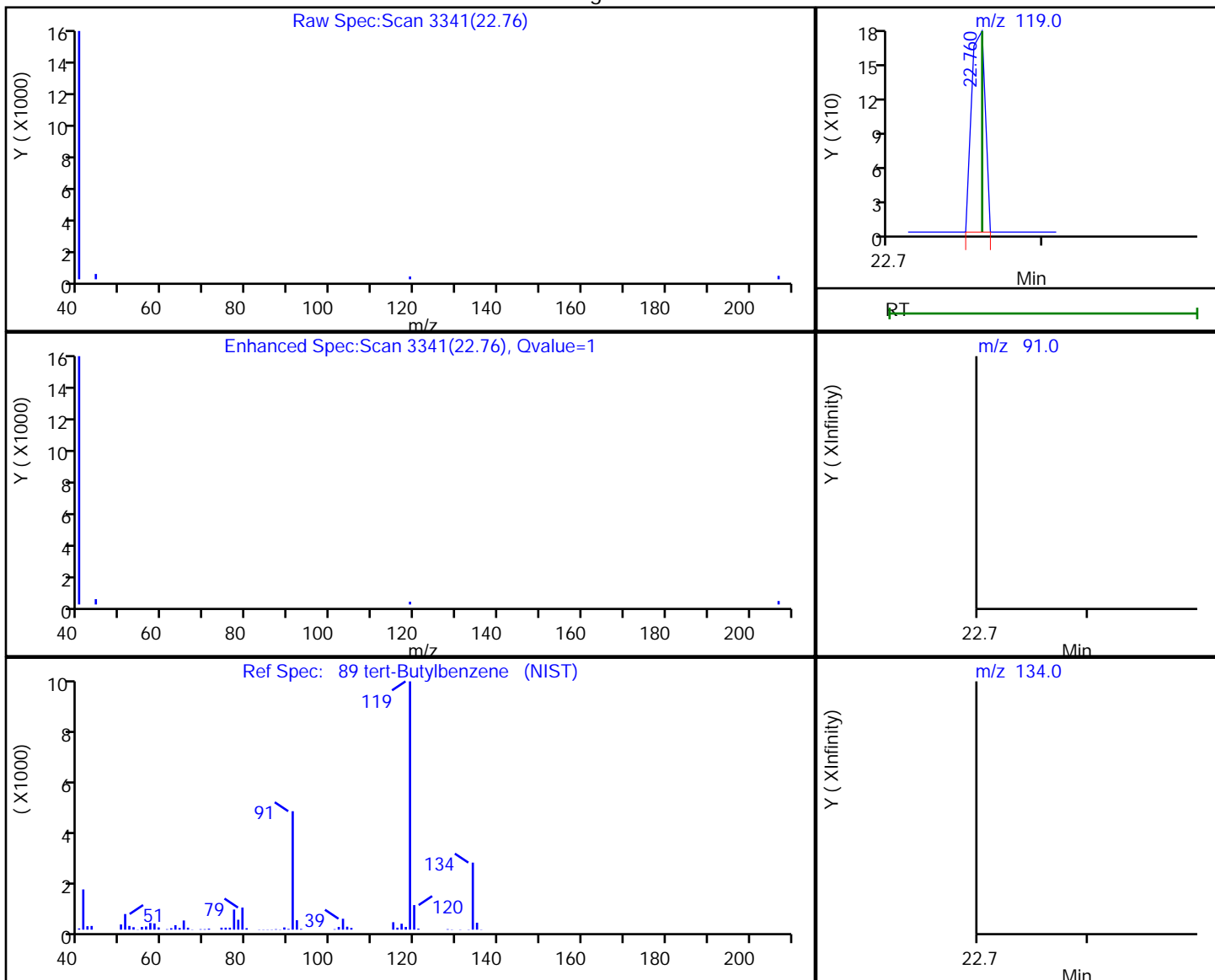
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.76	119.00	108	0.002124
22.76	91.00	0	
22.76	134.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:57

Audit Action: Marked Compound Undetected

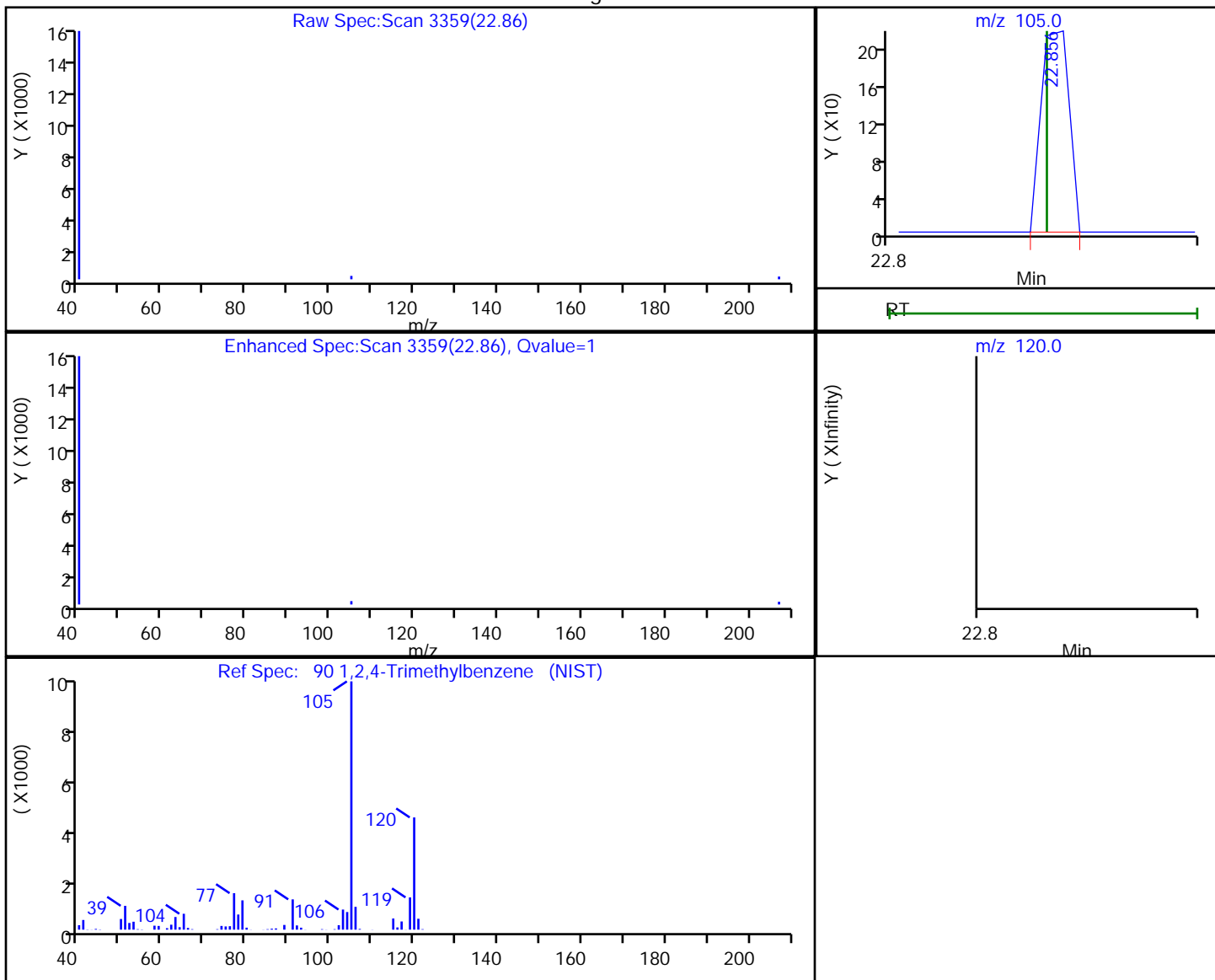
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
22.86	105.00	135	0.002651
22.85	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:58

Audit Action: Marked Compound Undetected

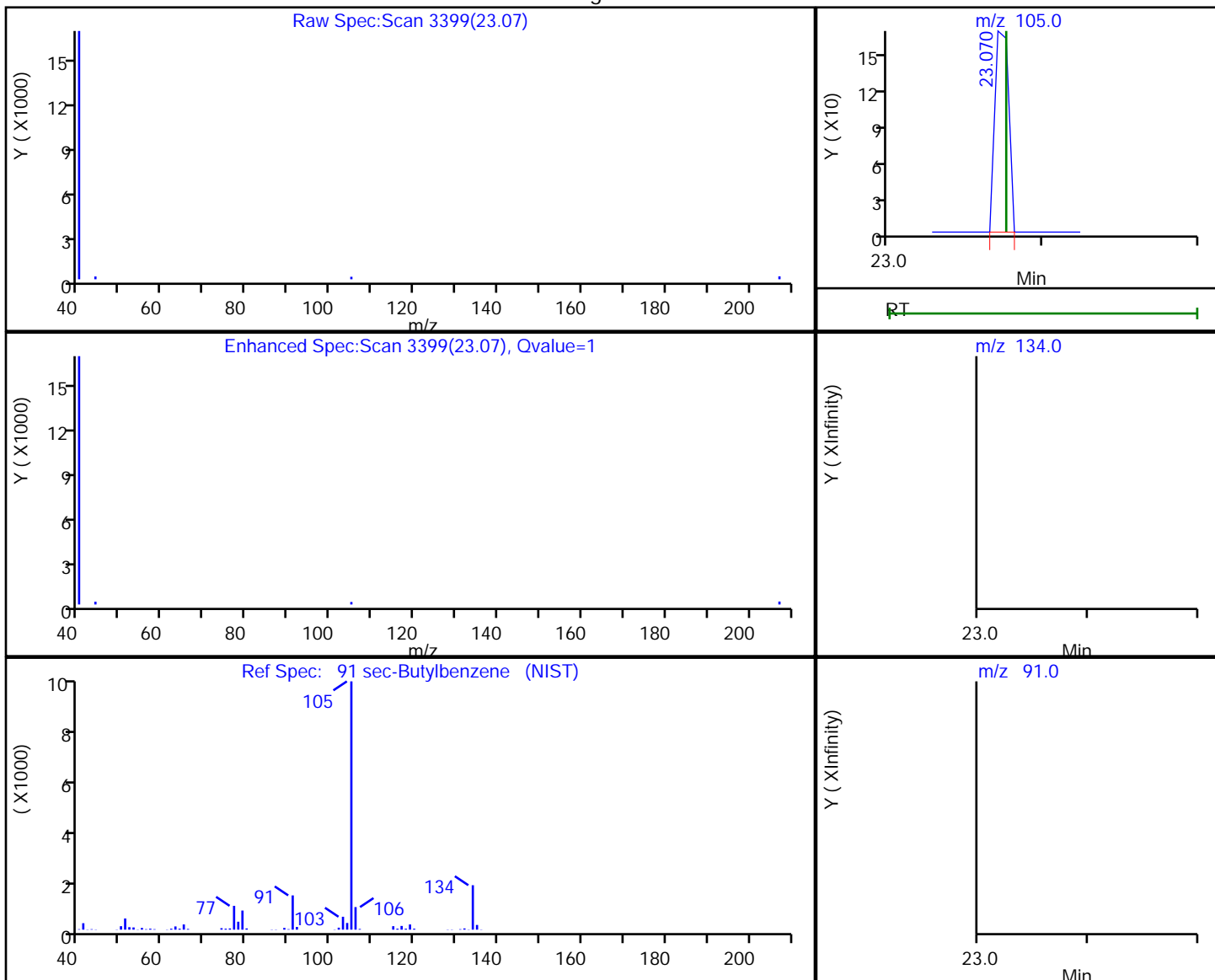
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

91 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
23.07	105.00	101	0.001288
23.08	134.00	0	
23.08	91.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:59

Audit Action: Marked Compound Undetected

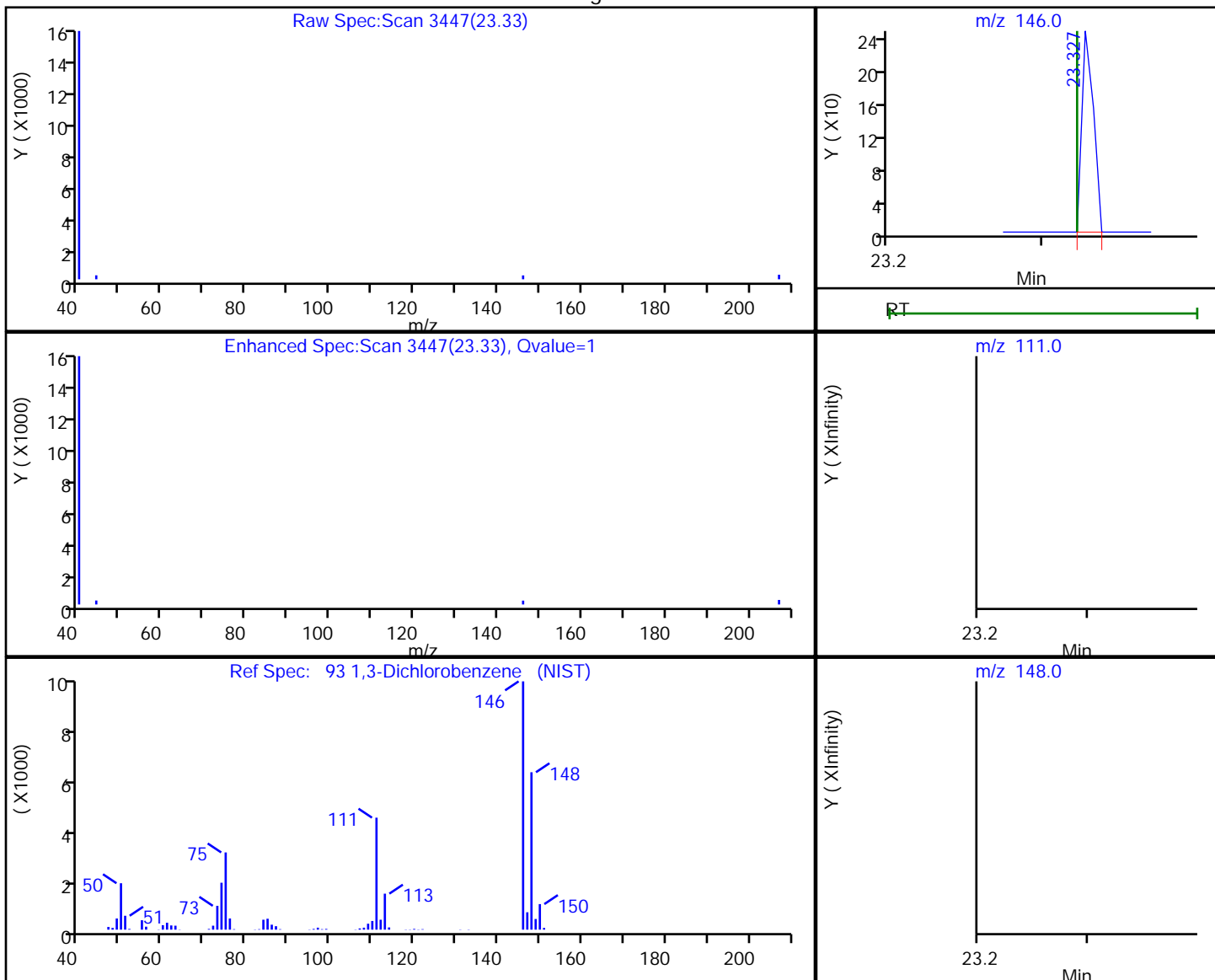
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003733
23.32	111.00	0	
23.32	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

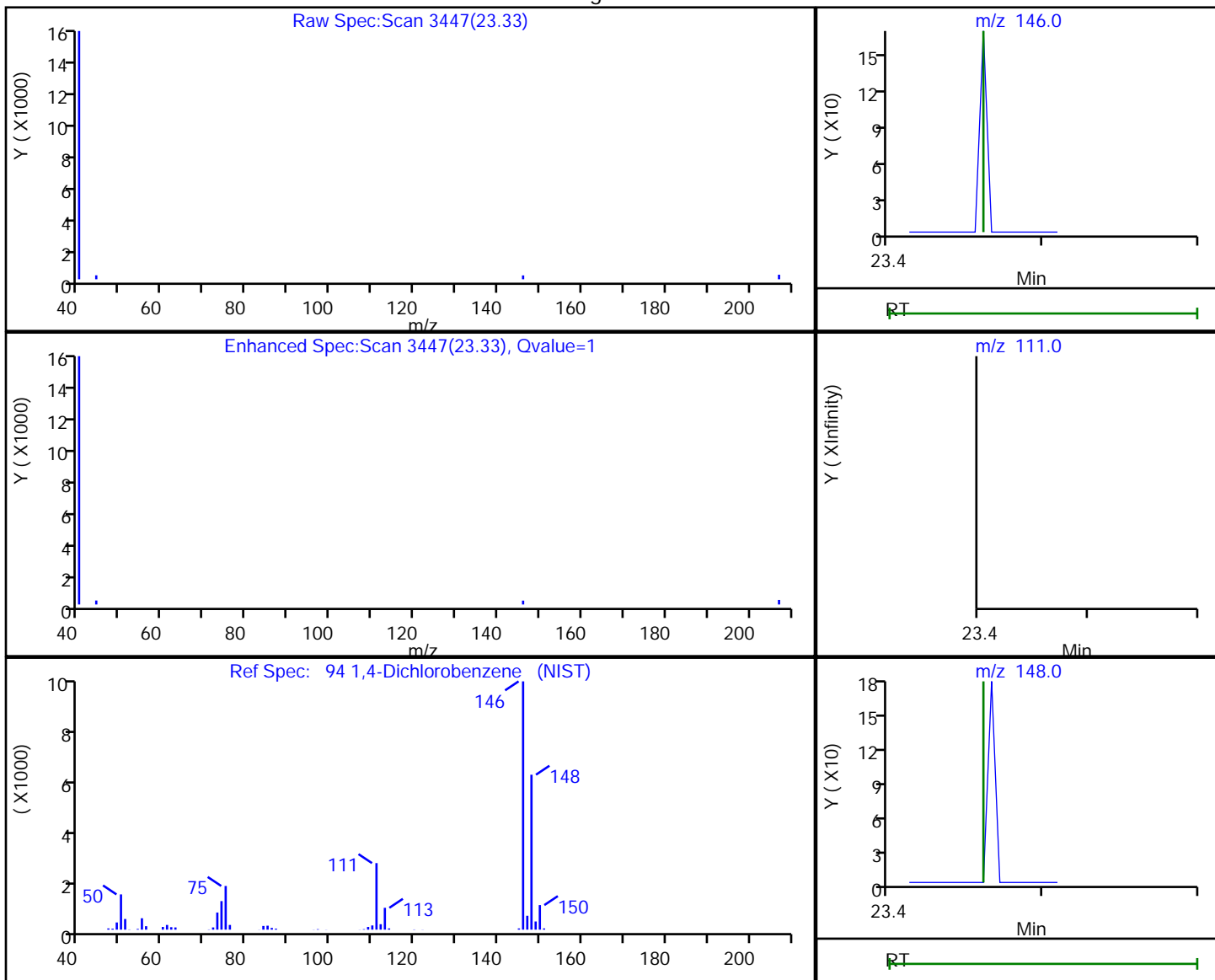


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003913
23.46	111.00	0	
23.46	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:05

Audit Action: Marked Compound Undetected

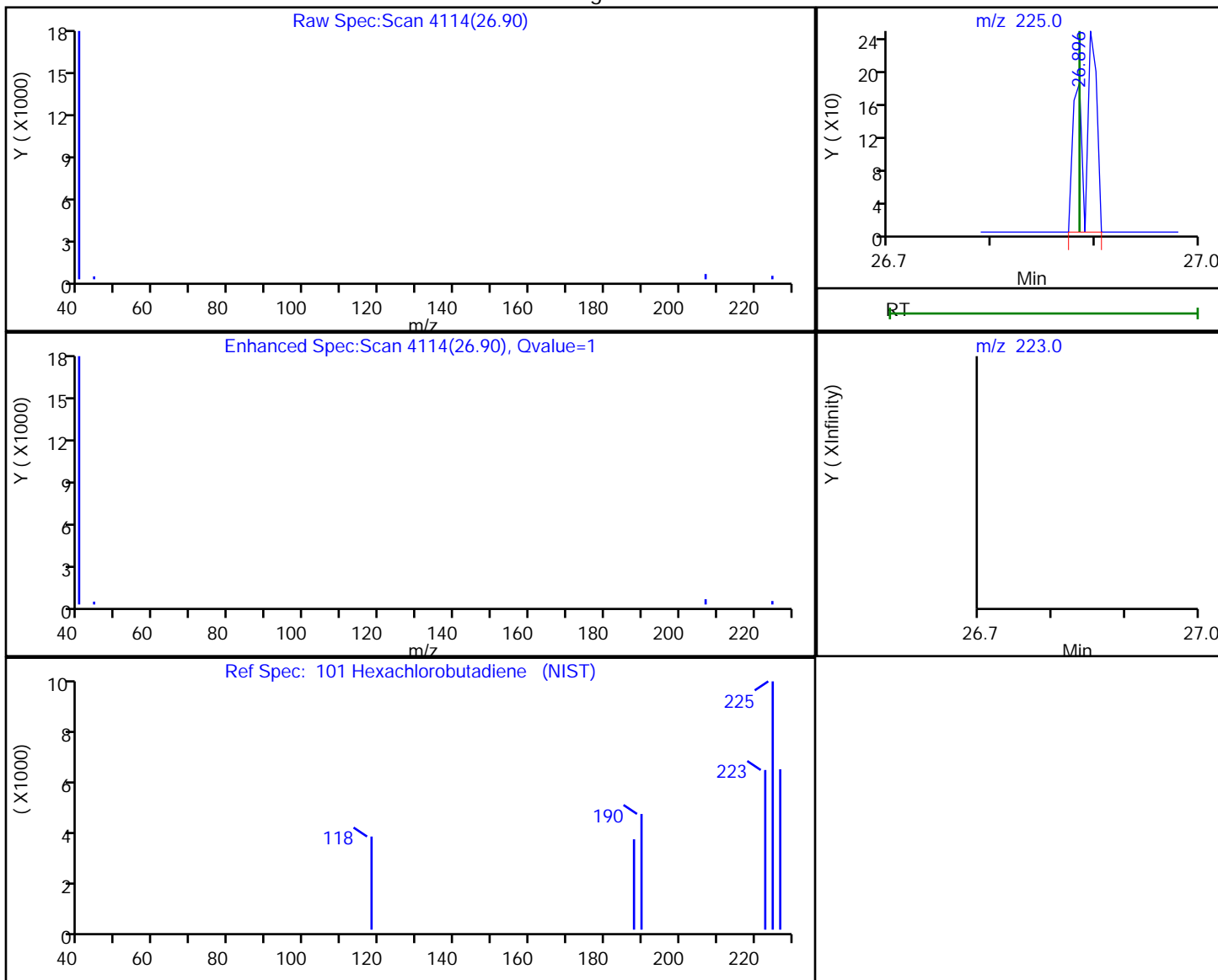
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
26.90	225.00	249	0.010138
26.88	223.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:41

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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31797-01.d BFB Injection Date: 08/15/2018  
 Instrument ID: CHW.i BFB Injection Time: 15:42  
 Analysis Batch No.: 132926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.1	
75	30.0 - 66.0% of mass 95	48.6	
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	0.7	(0.8) 1
174	50.0 - 120.0% of mass 95	92.8	
175	4.0 - 9.0 % of mass 174	6.7	(7.2) 1
176	93.0 - 101.0% of mass 174	91.6	(98.7) 1
177	5.0 - 9.0% of mass 176	5.9	(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 200-132926/4	31797-04.d	08/15/2018	18:38
	IC 200-132926/5	31797-05.d	08/15/2018	19:32
	IC 200-132926/6	31797-06.d	08/15/2018	20:27
	IC 200-132926/7	31797-07.d	08/15/2018	21:22
	ICIS 200-132926/8	31797-08.d	08/15/2018	22:17
	IC 200-132926/9	31797-09.d	08/15/2018	23:11
	IC 200-132926/10	31797-10.d	08/16/2018	00:06
	IC 200-132926/11	31797-11.d	08/16/2018	01:00
	ICV 200-132926/14	31797-14.d	08/16/2018	03:44

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-01.d BFB Injection Date: 09/11/2018  
 Instrument ID: CHW.i BFB Injection Time: 11:38  
 Analysis Batch No.: 133921

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.4	
75	30.0 - 66.0% of mass 95	50.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.9	(1.0) 1
174	50.0 - 120.0% of mass 95	97.1	
175	4.0 - 9.0 % of mass 174	7.3	(7.5) 1
176	93.0 - 101.0% of mass 174	93.7	(96.5) 1
177	5.0 - 9.0% of mass 176	6.4	(6.8) 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 200-133921/2	32143-02.d	09/11/2018	12:42
	LCS 200-133921/3	32143-03.d	09/11/2018	13:37
	MB 200-133921/4	32143-04.d	09/11/2018	14:32
4249	200-45174-12	32143-20.d	09/12/2018	05:18

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31797-01.d BFB Injection Date: 08/15/2018  
 Instrument ID: CHW.i BFB Injection Time: 15:42  
 Analysis Batch No.: 132926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.1	
75	30.0 - 66.0% of mass 95	48.6	
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	0.7	(0.8) 1
174	50.0 - 120.0% of mass 95	92.8	
175	4.0 - 9.0 % of mass 174	6.7	(7.2) 1
176	93.0 - 101.0% of mass 174	91.6	(98.7) 1
177	5.0 - 9.0% of mass 176	5.9	(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 200-132926/4	31797-04.d	08/15/2018	18:38
	IC 200-132926/5	31797-05.d	08/15/2018	19:32
	IC 200-132926/6	31797-06.d	08/15/2018	20:27
	IC 200-132926/7	31797-07.d	08/15/2018	21:22
	ICIS 200-132926/8	31797-08.d	08/15/2018	22:17
	IC 200-132926/9	31797-09.d	08/15/2018	23:11
	IC 200-132926/10	31797-10.d	08/16/2018	00:06
	IC 200-132926/11	31797-11.d	08/16/2018	01:00
	ICV 200-132926/14	31797-14.d	08/16/2018	03:44

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-01.d BFB Injection Date: 09/11/2018  
 Instrument ID: CHW.i BFB Injection Time: 11:38  
 Analysis Batch No.: 133921

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.4	
75	30.0 - 66.0% of mass 95	50.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.9	(1.0) 1
174	50.0 - 120.0% of mass 95	97.1	
175	4.0 - 9.0 % of mass 174	7.3	(7.5) 1
176	93.0 - 101.0% of mass 174	93.7	(96.5) 1
177	5.0 - 9.0% of mass 176	6.4	(6.8) 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 200-133921/2	32143-02.d	09/11/2018	12:42
	LCS 200-133921/3	32143-03.d	09/11/2018	13:37
	MB 200-133921/4	32143-04.d	09/11/2018	14:32
5065	200-45175-12	32143-14.d	09/11/2018	23:30

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-132926/8 Date Analyzed: 08/15/2018 22:17  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31797-08.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	110914	12.36	560954	14.07	523375	19.53
UPPER LIMIT	155280	12.69	785336	14.40	732725	19.86
LOWER LIMIT	66548	12.03	336572	13.74	314025	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-132926/14	135830	12.36	682740	14.07	632594	19.53

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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-133921/2 Date Analyzed: 09/11/2018 12:42  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 32143-02.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	77856	12.37	388298	14.07	365646	19.53
UPPER LIMIT	108998	12.70	543617	14.40	511904	19.86
LOWER LIMIT	46714	12.04	232979	13.74	219388	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 200-133921/3	81908	12.36	401062	14.06	385637	19.53
MB 200-133921/4	91677	12.36	456636	14.07	378094	19.53
200-45174-12	4249	66091	12.36	328782	14.07	277770

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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-132926/8 Date Analyzed: 08/15/2018 22:17  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31797-08.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	110914	12.36	560954	14.07	523375	19.53
UPPER LIMIT	155280	12.69	785336	14.40	732725	19.86
LOWER LIMIT	66548	12.03	336572	13.74	314025	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-132926/14	135830	12.36	682740	14.07	632594	19.53

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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-133921/2 Date Analyzed: 09/11/2018 12:42  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 32143-02.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	77856	12.37	388298	14.07	365646	19.53
UPPER LIMIT	108998	12.70	543617	14.40	511904	19.86
LOWER LIMIT	46714	12.04	232979	13.74	219388	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 200-133921/3	81908	12.36	401062	14.06	385637	19.53
MB 200-133921/4	91677	12.36	456636	14.07	378094	19.53
200-45175-12	5065	70854	12.37	352060	14.07	298968

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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4249 Lab Sample ID: 200-45174-12  
 Matrix: Air Lab File ID: 32143-20.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 05:18  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4249 Lab Sample ID: 200-45174-12  
 Matrix: Air Lab File ID: 32143-20.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 05:18  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4249 Lab Sample ID: 200-45174-12  
 Matrix: Air Lab File ID: 32143-20.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 05:18  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-20.d  
 Lims ID: 200-45174-A-12  
 Client ID: 4249  
 Sample Type: Client  
 Inject. Date: 12-Sep-2018 05:18:30 ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0032143-020  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 17:03:06 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 17:03:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		5.042				ND	U
2 Dichlorodifluoromethane	85		5.154				ND	
3 Chlorodifluoromethane	51		5.235				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556				ND	
5 Chloromethane	50		5.753				ND	
6 Butane	43		6.021				ND	
7 Vinyl chloride	62		6.080				ND	
8 Butadiene	54		6.171				ND	
9 Bromomethane	94		6.963				ND	
11 Chloroethane	64		7.219				ND	
13 Vinyl bromide	106		7.626				ND	
14 Trichlorofluoromethane	101		7.717				ND	
16 Ethanol	45		8.225				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723				ND	
21 1,1-Dichloroethene	96		8.787				ND	
22 Acetone	43		8.979				ND	
23 Carbon disulfide	76		9.183				ND	
24 Isopropyl alcohol	45	9.209	9.184	0.021	96	3545	0.2330	
25 3-Chloro-1-propene	41		9.488				ND	
27 Methylene Chloride	49		9.744				ND	U
28 2-Methyl-2-propanol	59		9.867				ND	
29 Methyl tert-butyl ether	73		10.076				ND	
30 trans-1,2-Dichloroethene	61		10.140				ND	
S 31 1,2-Dichloroethene, Total	61		10.200				ND	
33 Hexane	57		10.467				ND	
34 1,1-Dichloroethane	63		10.932				ND	
35 Vinyl acetate	43		10.959				ND	
36 cis-1,2-Dichloroethene	96		11.938				ND	
37 2-Butanone (MEK)	72		11.948				ND	
38 Ethyl acetate	88		11.959				ND	
39 Tetrahydrofuran	42		12.355				ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	94	66091	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		12.457				ND	
42 Cyclohexane	84		12.719				ND	
43 1,1,1-Trichloroethane	97		12.735				ND	
44 Carbon tetrachloride	117		12.960				ND	
45 Isooctane	57		13.307				ND	
46 Benzene	78		13.371				ND	
47 1,2-Dichloroethane	62		13.521				ND	
48 n-Heptane	43		13.628				ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	328782	10.0	
51 Trichloroethene	95		14.495				ND	
53 1,2-Dichloropropane	63		14.982				ND	
55 Methyl methacrylate	69		15.067				ND	
56 1,4-Dioxane	88		15.153				ND	
57 Dibromomethane	174		15.212				ND	
58 Dichlorobromomethane	83		15.447				ND	
59 cis-1,3-Dichloropropene	75		16.271				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.501				ND	
63 Toluene	92		16.817				ND	
64 trans-1,3-Dichloropropene	75		17.341				ND	
65 1,1,2-Trichloroethane	83		17.694				ND	
66 Tetrachloroethene	166		17.812				ND	
67 2-Hexanone	43		18.085				ND	
68 Chlorodibromomethane	129		18.422				ND	
69 Ethylene Dibromide	107		18.689				ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	277770	10.0	
72 Chlorobenzene	112		19.593				ND	
73 Ethylbenzene	91		19.716				ND	U
75 m-Xylene & p-Xylene	106		19.957				ND	
S 76 Xylenes, Total	106		20.100				ND	
77 o-Xylene	106		20.727				ND	
78 Styrene	104		20.770				ND	
79 Bromoform	173		21.166				ND	
80 Isopropylbenzene	105		21.332				ND	
81 1,1,2,2-Tetrachloroethane	83		21.936				ND	
82 N-Propylbenzene	91		22.006				ND	
85 4-Ethyltoluene	105		22.182				ND	
86 2-Chlorotoluene	91		22.204				ND	
87 1,3,5-Trimethylbenzene	105		22.284				ND	
89 tert-Butylbenzene	119		22.760				ND	
90 1,2,4-Trimethylbenzene	105		22.851				ND	
91 sec-Butylbenzene	105		23.076				ND	
92 4-Isopropyltoluene	119		23.274				ND	
93 1,3-Dichlorobenzene	146		23.322				ND	
94 1,4-Dichlorobenzene	146		23.461				ND	
95 Benzyl chloride	91		23.664				ND	
96 n-Butylbenzene	91		23.873				ND	
98 1,2-Dichlorobenzene	146		24.023				ND	
100 1,2,4-Trichlorobenzene	180		26.698				ND	
101 Hexachlorobutadiene	225		26.885				ND	
102 Naphthalene	128		27.227				ND	

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d

Injection Date: 12-Sep-2018 05:18:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-45174-A-12

Lab Sample ID: 200-45174-12

Worklist Smp#: 20

Client ID: 4249

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

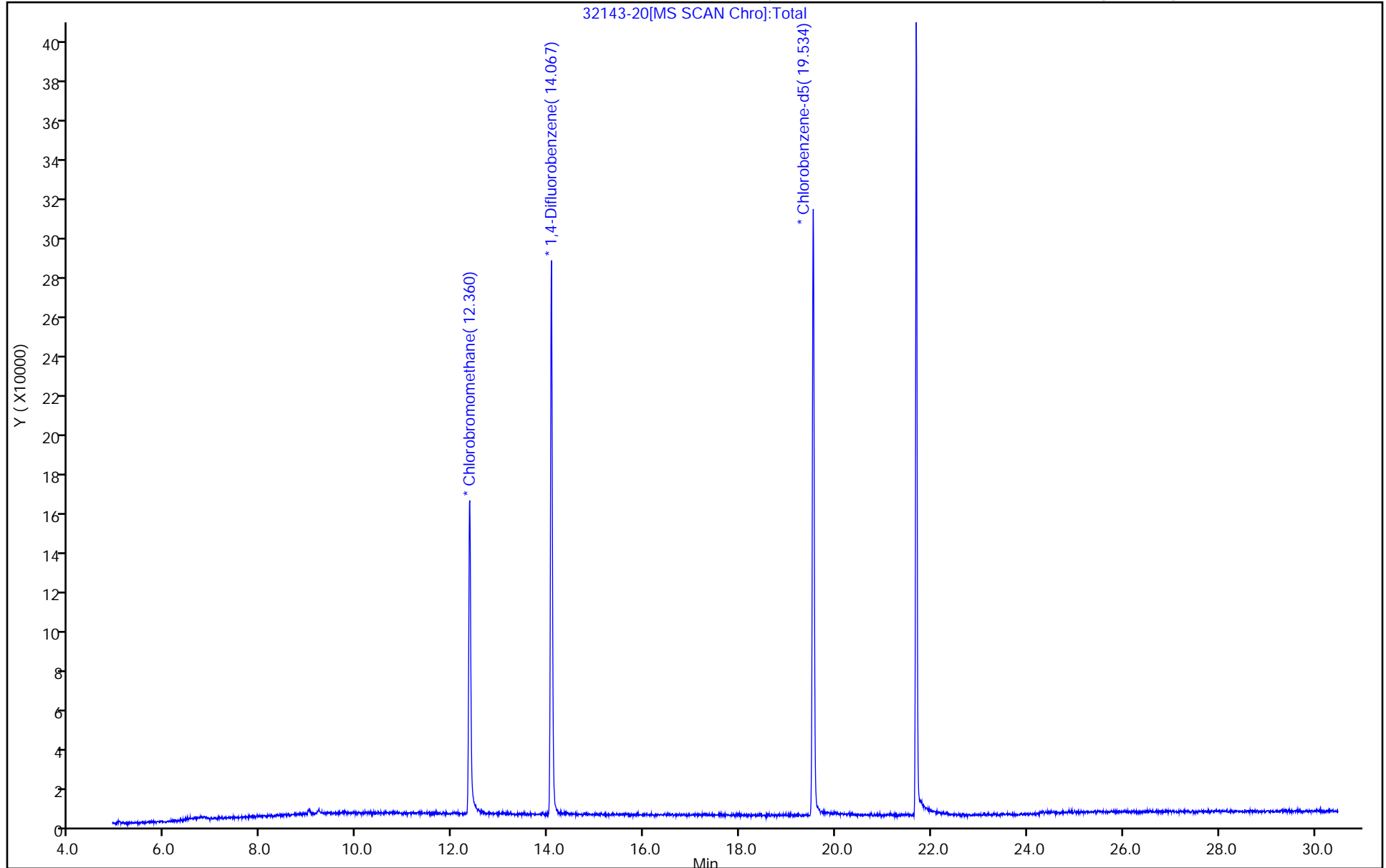
ALS Bottle#: 19

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

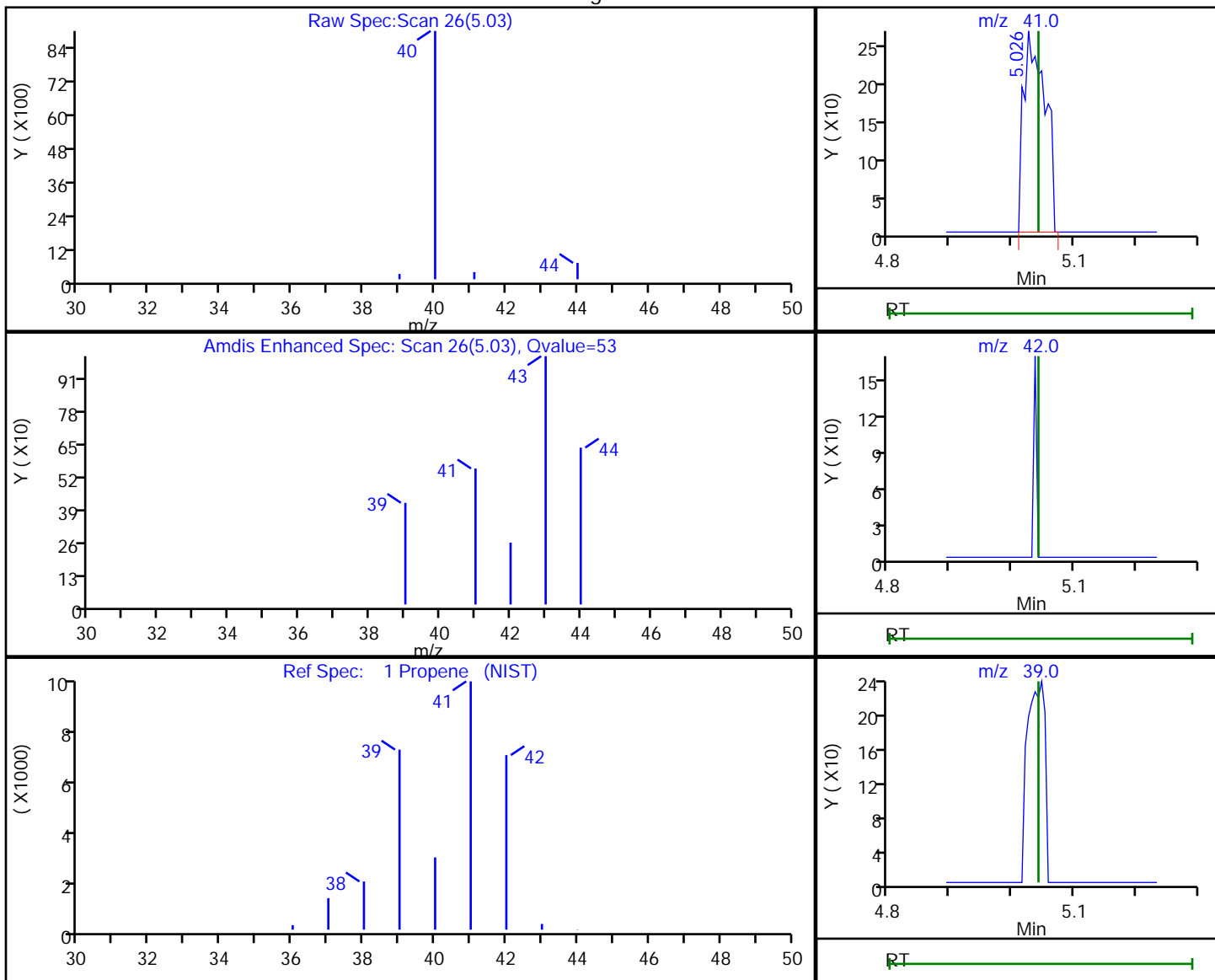


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d  
Injection Date: 12-Sep-2018 05:18:30 Instrument ID: CHW.i  
Lims ID: 200-45174-A-12 Lab Sample ID: 200-45174-12  
Client ID: 4249  
Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) 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
5.03	41.00	631	0.078776
5.04	42.00	0	
5.04	39.00	0	

Reviewer: puangmaleek, 12-Sep-2018 17:00:23

Audit Action: Marked Compound Undetected

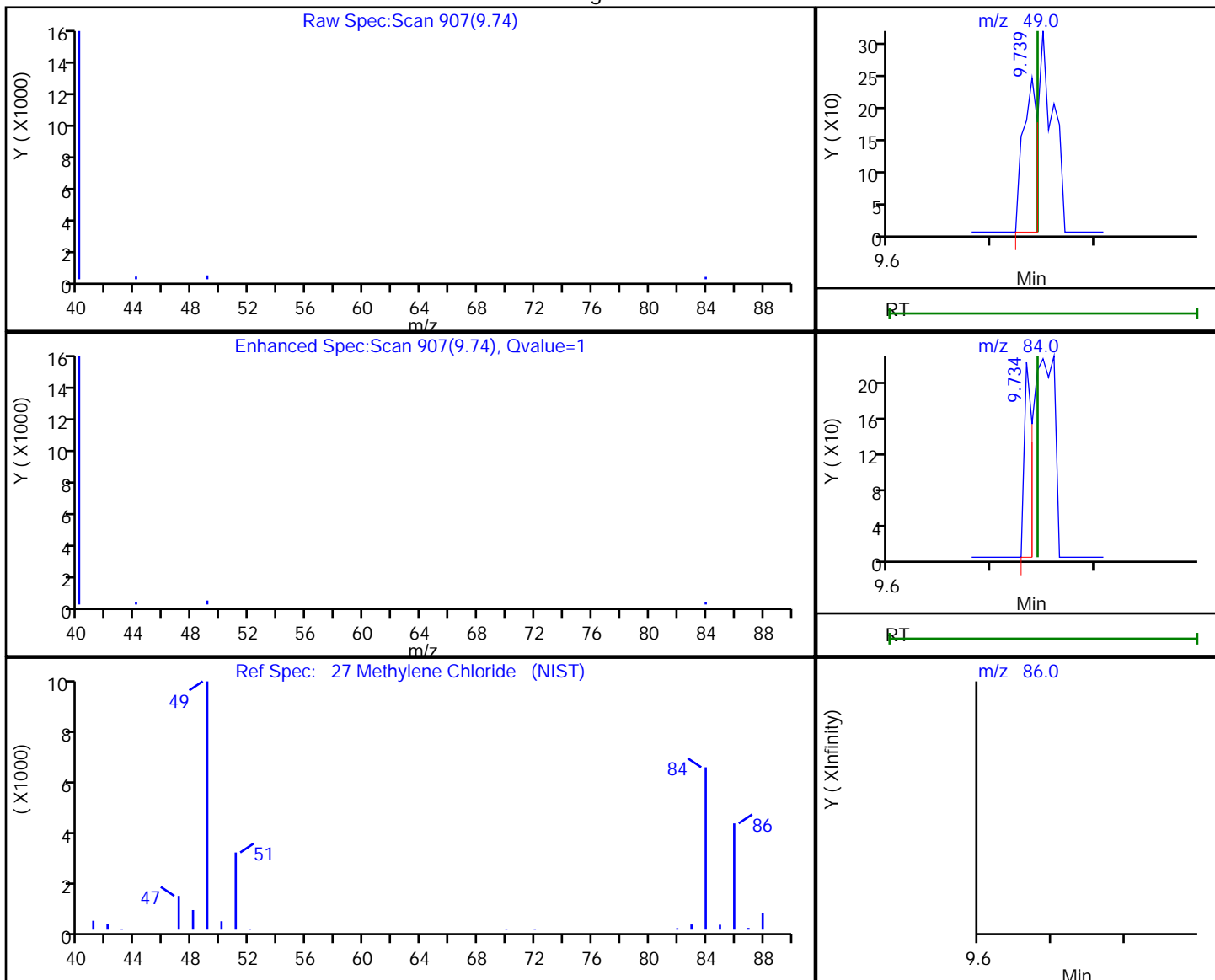
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d  
 Injection Date: 12-Sep-2018 05:18:30 Instrument ID: CHW.i  
 Lims ID: 200-45174-A-12 Lab Sample ID: 200-45174-12  
 Client ID: 4249  
 Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	239	0.020828
9.73	84.00	119	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 17:00:31

Audit Action: Marked Compound Undetected

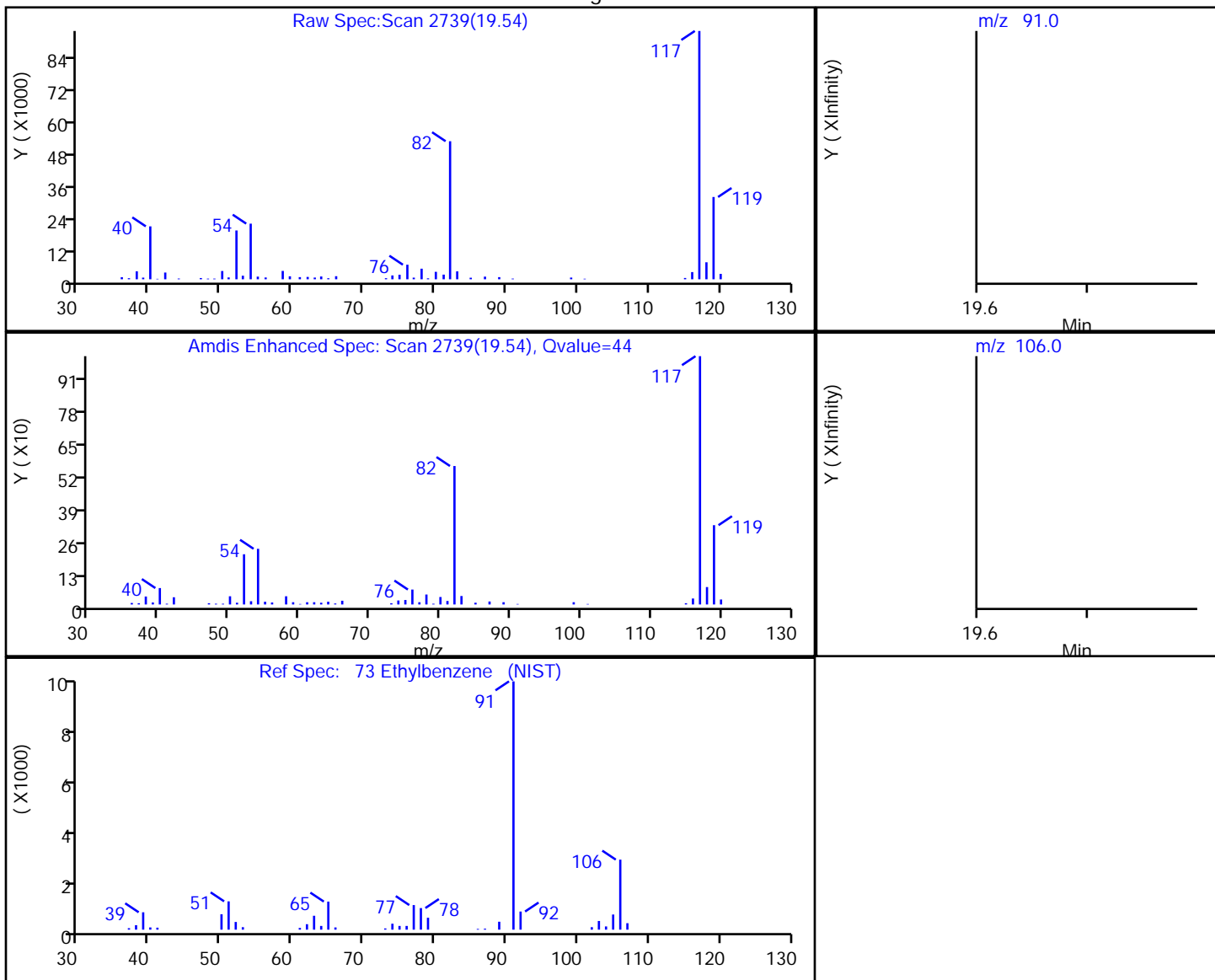
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d  
Injection Date: 12-Sep-2018 05:18:30 Instrument ID: CHW.i  
Lims ID: 200-45174-A-12 Lab Sample ID: 200-45174-12  
Client ID: 4249  
Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	278	0.006834
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 17:02:56

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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5065 Lab Sample ID: 200-45175-12  
 Matrix: Air Lab File ID: 32143-14.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/11/2018 23:30  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5065 Lab Sample ID: 200-45175-12  
 Matrix: Air Lab File ID: 32143-14.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/11/2018 23:30  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5065 Lab Sample ID: 200-45175-12  
 Matrix: Air Lab File ID: 32143-14.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/11/2018 23:30  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-14.d  
 Lims ID: 200-45175-A-12  
 Client ID: 5065  
 Sample Type: Client  
 Inject. Date: 11-Sep-2018 23:30:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0032143-014  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:47:29 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 13:47:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		5.042				ND	
2 Dichlorodifluoromethane	85		5.154				ND	
3 Chlorodifluoromethane	51		5.235				ND	U
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556				ND	
5 Chloromethane	50		5.753				ND	
6 Butane	43		6.021				ND	
7 Vinyl chloride	62		6.080				ND	
8 Butadiene	54		6.171				ND	
9 Bromomethane	94		6.963				ND	
11 Chloroethane	64		7.219				ND	
13 Vinyl bromide	106		7.626				ND	
14 Trichlorofluoromethane	101		7.717				ND	
16 Ethanol	45		8.225				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723				ND	
21 1,1-Dichloroethene	96		8.787				ND	
22 Acetone	43		8.979				ND	
23 Carbon disulfide	76		9.183				ND	U
24 Isopropyl alcohol	45	9.209	9.188	0.021	95	3711	0.2275	
25 3-Chloro-1-propene	41		9.488				ND	
27 Methylene Chloride	49		9.744				ND	U
28 2-Methyl-2-propanol	59		9.867				ND	
29 Methyl tert-butyl ether	73		10.076				ND	
30 trans-1,2-Dichloroethene	61		10.140				ND	
S 31 1,2-Dichloroethene, Total	61		10.200				ND	
33 Hexane	57		10.467				ND	
34 1,1-Dichloroethane	63		10.932				ND	
35 Vinyl acetate	43		10.959				ND	
36 cis-1,2-Dichloroethene	96		11.938				ND	
37 2-Butanone (MEK)	72		11.948				ND	
38 Ethyl acetate	88		11.959				ND	
39 Tetrahydrofuran	42		12.355				ND	
* 40 Chlorobromomethane	128	12.366	12.366	0.000	94	70854	10.0	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		12.457				ND	
42 Cyclohexane	84		12.719				ND	
43 1,1,1-Trichloroethane	97		12.735				ND	
44 Carbon tetrachloride	117		12.960				ND	
45 Isooctane	57		13.307				ND	
46 Benzene	78		13.371				ND	
47 1,2-Dichloroethane	62		13.521				ND	
48 n-Heptane	43		13.628				ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	352060	10.0	
51 Trichloroethene	95		14.495				ND	
53 1,2-Dichloropropane	63		14.982				ND	
55 Methyl methacrylate	69		15.067				ND	
56 1,4-Dioxane	88		15.153				ND	
57 Dibromomethane	174		15.212				ND	
58 Dichlorobromomethane	83		15.447				ND	
59 cis-1,3-Dichloropropene	75		16.271				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.501				ND	
63 Toluene	92		16.817				ND	
64 trans-1,3-Dichloropropene	75		17.341				ND	
65 1,1,2-Trichloroethane	83		17.694				ND	
66 Tetrachloroethene	166		17.812				ND	
67 2-Hexanone	43		18.085				ND	
68 Chlorodibromomethane	129		18.422				ND	
69 Ethylene Dibromide	107		18.689				ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	298968	10.0	
72 Chlorobenzene	112		19.593				ND	
73 Ethylbenzene	91		19.716				ND	U
75 m-Xylene & p-Xylene	106		19.957				ND	
S 76 Xylenes, Total	106		20.100				ND	
77 o-Xylene	106		20.727				ND	
78 Styrene	104		20.770				ND	
79 Bromoform	173		21.166				ND	
80 Isopropylbenzene	105		21.332				ND	
81 1,1,2,2-Tetrachloroethane	83		21.936				ND	
82 N-Propylbenzene	91		22.006				ND	
85 4-Ethyltoluene	105		22.182				ND	
86 2-Chlorotoluene	91		22.204				ND	
87 1,3,5-Trimethylbenzene	105		22.284				ND	
89 tert-Butylbenzene	119		22.760				ND	
90 1,2,4-Trimethylbenzene	105		22.851				ND	
91 sec-Butylbenzene	105		23.076				ND	
92 4-Isopropyltoluene	119		23.274				ND	
93 1,3-Dichlorobenzene	146		23.322				ND	
94 1,4-Dichlorobenzene	146		23.461				ND	
95 Benzyl chloride	91		23.664				ND	
96 n-Butylbenzene	91		23.873				ND	
98 1,2-Dichlorobenzene	146		24.023				ND	
100 1,2,4-Trichlorobenzene	180		26.698				ND	
101 Hexachlorobutadiene	225		26.885				ND	
102 Naphthalene	128		27.227				ND	

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d

Injection Date: 11-Sep-2018 23:30:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-45175-A-12

Lab Sample ID: 200-45175-12

Worklist Smp#: 14

Client ID: 5065

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

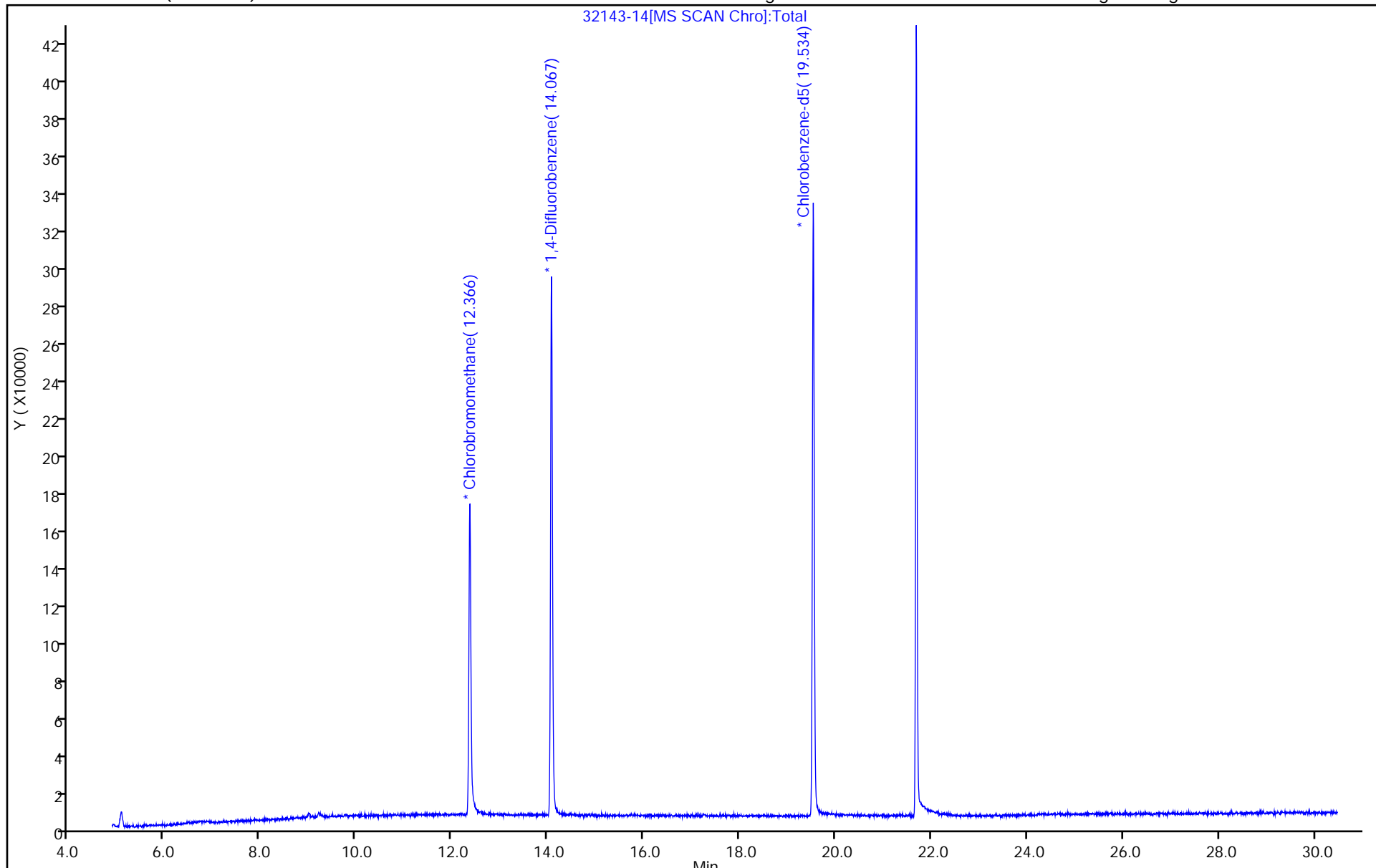
ALS Bottle#: 13

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



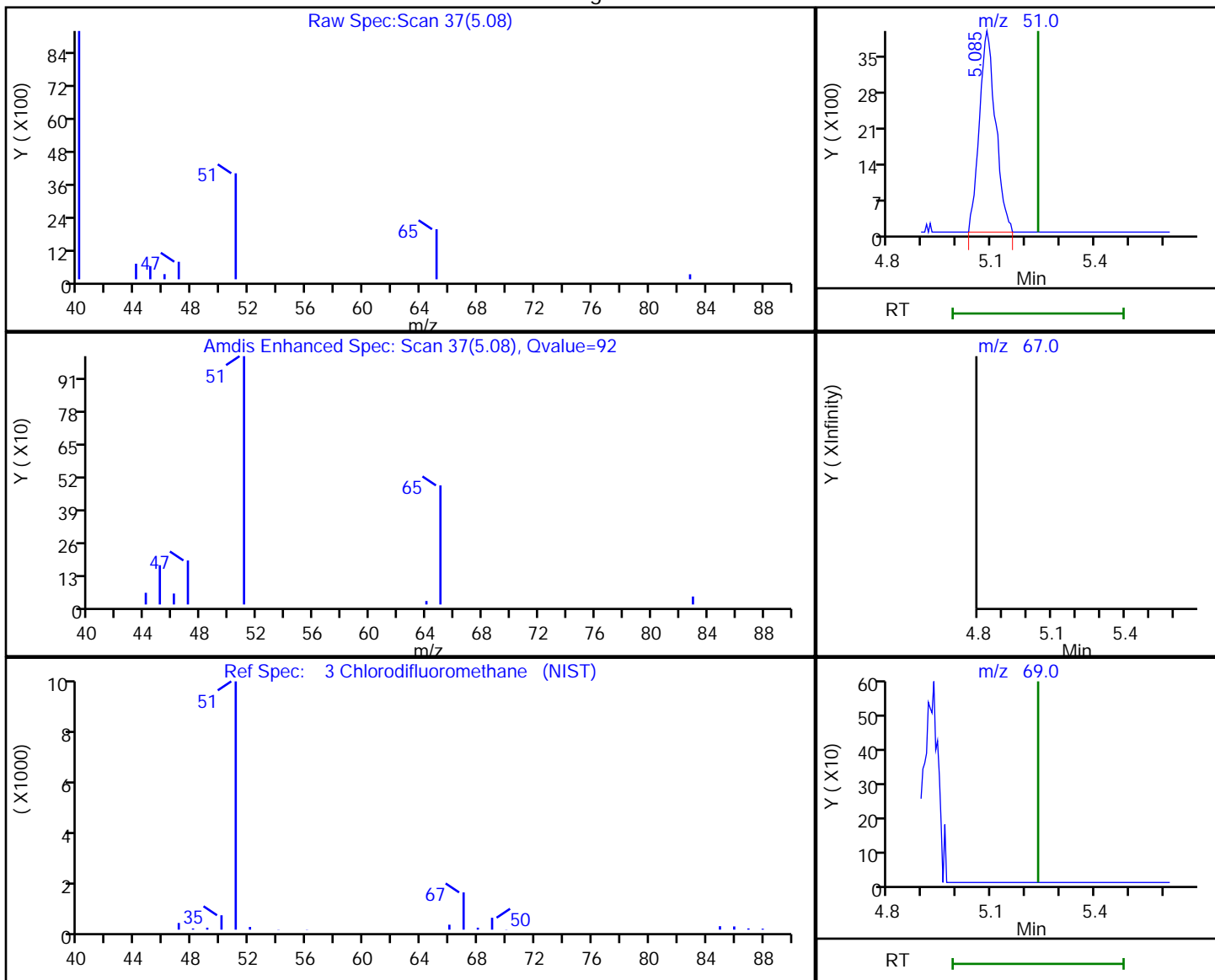
32143-14[MS SCAN Chro]:Total

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
 Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
 Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
 Client ID: 5065  
 Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
5.08	51.00	12876	0.822210
5.23	67.00	0	
5.23	69.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:46:58

Audit Action: Marked Compound Undetected

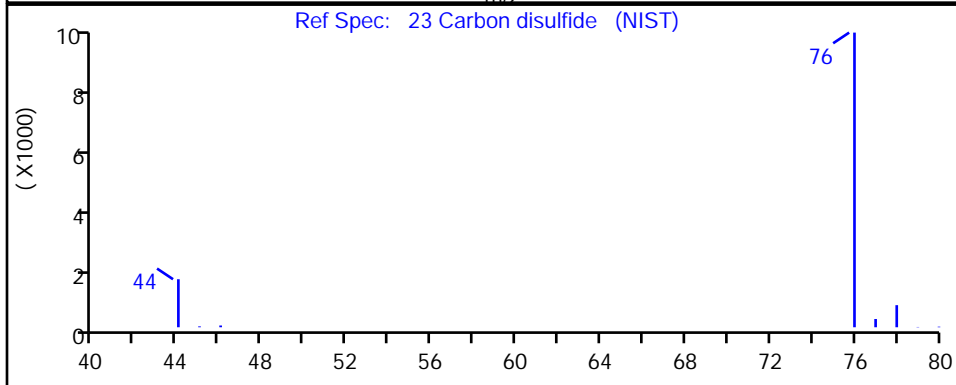
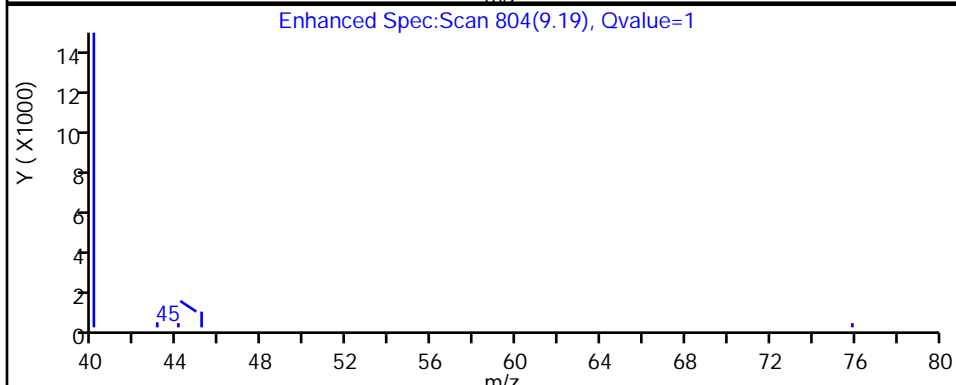
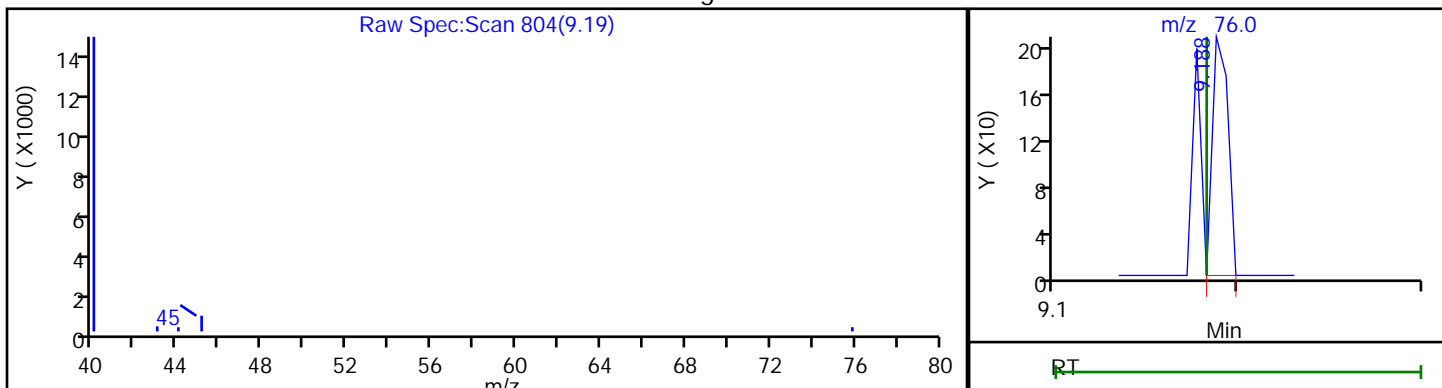
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
 Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
 Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
 Client ID: 5065  
 Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.19	76.00	118	0.004151

Reviewer: puangmaleek, 12-Sep-2018 13:47:04

Audit Action: Marked Compound Undetected

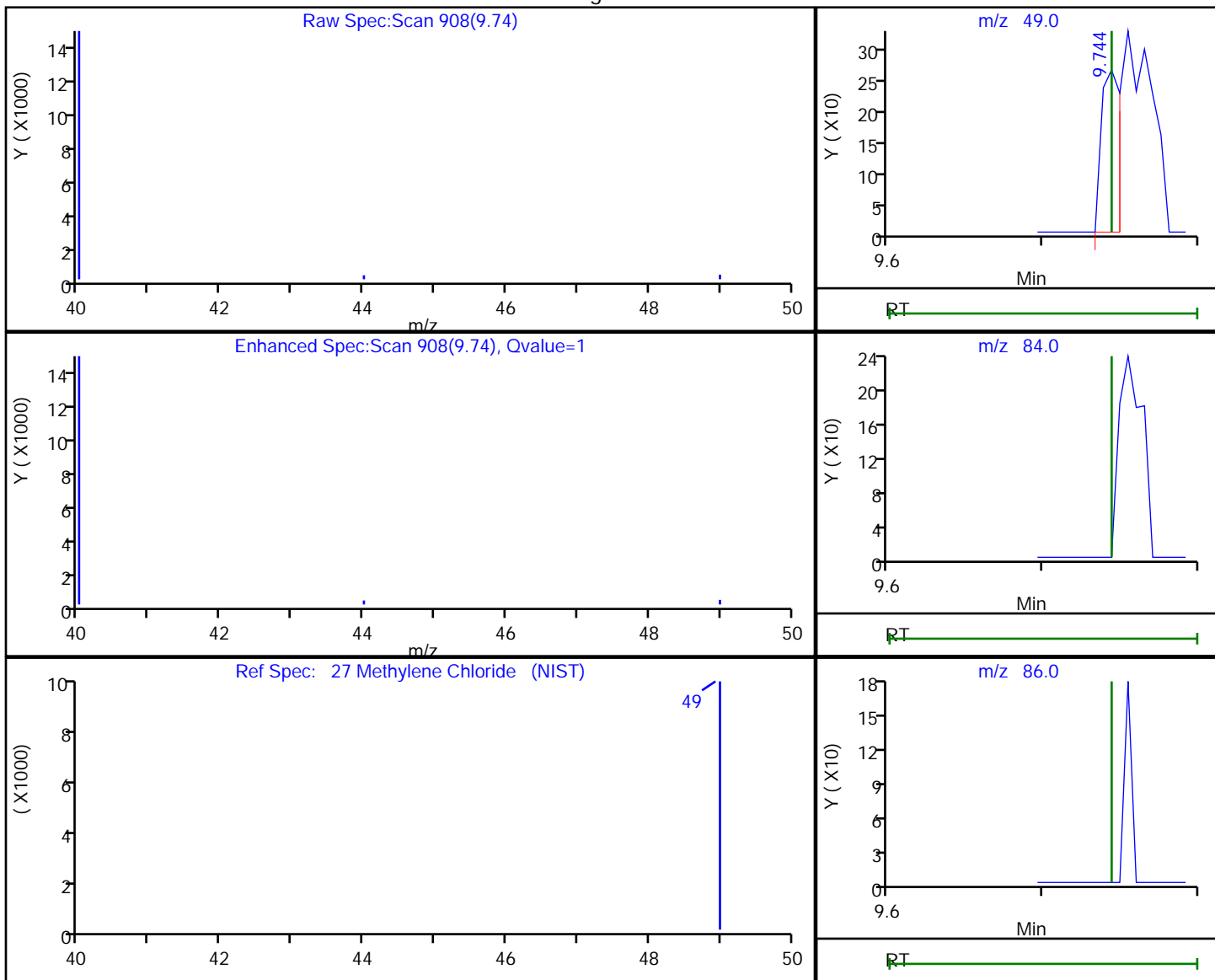
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
 Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
 Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
 Client ID: 5065  
 Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	235	0.019103
9.74	84.00	0	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:47:09

Audit Action: Marked Compound Undetected

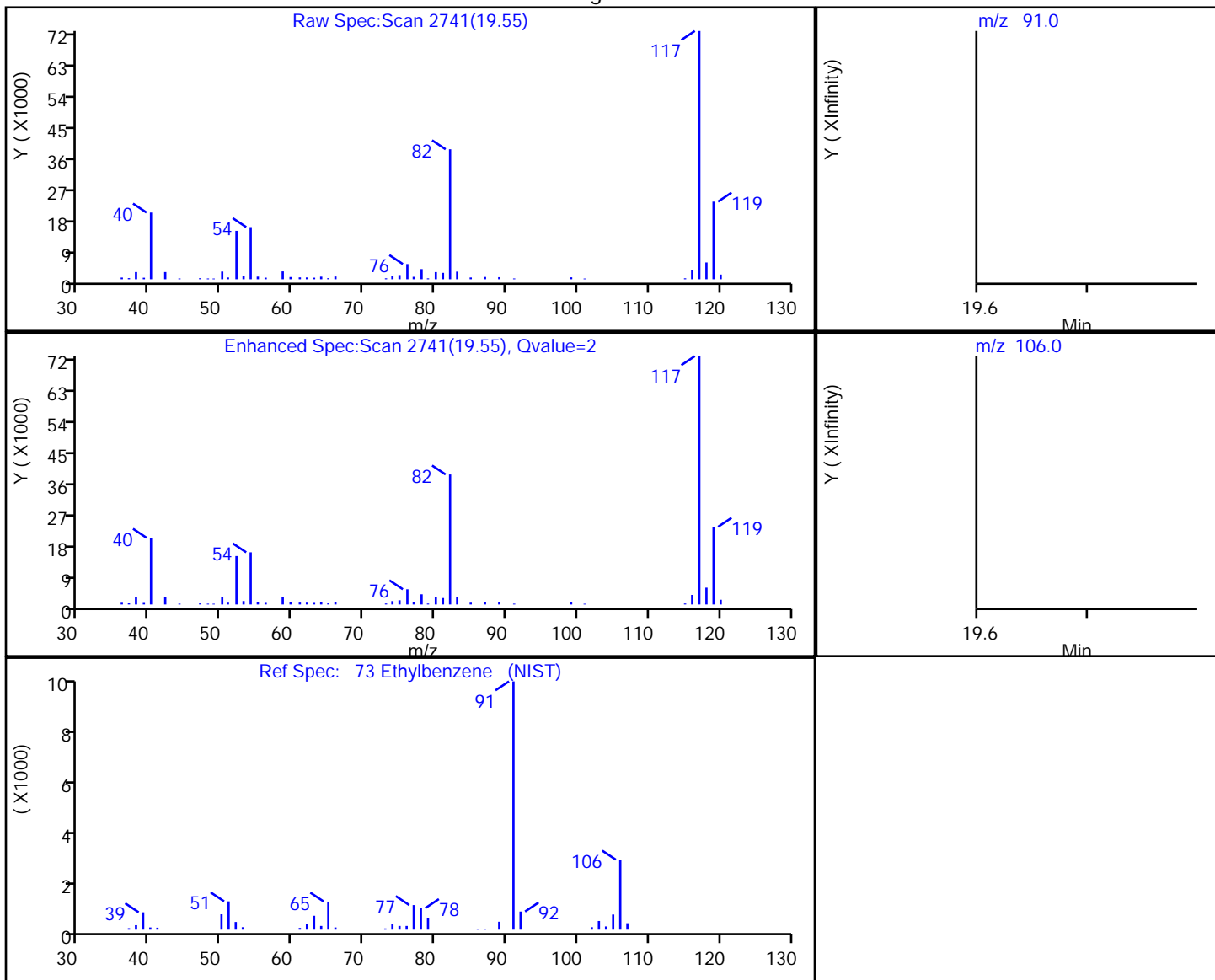
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
Client ID: 5065  
Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.55	91.00	125	0.002855
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:47:21

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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.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	++++ 1.2721	++++ 1.2075	++++ 1.0857	1.2456	1.2490	Ave		1.2120			6.1		30.0				
Dichlorodifluoromethane	++++ 3.4938	++++ 3.3956	++++ 3.1168	4.2627	3.3358	Ave		3.5266			11.1		30.0				
Freon 22	++++ 2.1516	++++ 2.0754	++++ 1.8749	2.8179	2.1357	Ave		2.2102			14.4		30.0				
1,2-Dichlorotetrafluoroethane	1.7619	3.4978	4.4434	3.6027	4.0973	Ave		3.5293			22.4		30.0				
Chloromethane	++++ 1.3477	++++ 1.2894	1.7787	1.3238	1.3191	Ave		1.3706			15.3		30.0				
n-Butane	++++ 2.4403	++++ 2.3622	3.2816	2.3709	2.5588	Ave		2.5255			15.6		30.0				
Vinyl chloride	0.9198	1.3662	1.8012	1.4718	1.5588	Ave		1.4532			17.4		30.0				
1,3-Butadiene	0.3698	0.9849	1.2569	1.1335	1.2230	Ave		1.0523			27.5		30.0				
Bromomethane	++++ 1.2506	1.3151	1.6489	1.2449	1.2625	Ave		1.3078			11.9		30.0				
Chloroethane	++++ 0.7642	++++ 0.7523	0.9628	0.7774	0.7856	Ave		0.7925			11.0		30.0				
Isopentane	++++ 1.8395	1.9853	2.3101	1.8757	1.9417	Ave		1.9143			10.7		30.0				
Bromoethene (Vinyl Bromide)	++++ 1.1694	1.0671	1.3317	1.1231	1.2360	Ave		1.1866			7.1		30.0				
Trichlorofluoromethane	++++ 3.1483	3.3433	4.0650	3.2288	3.2677	Ave		3.3194			10.4		30.0				
n-Pentane	++++ 2.7689	++++ 2.7149	3.5401	2.7692	2.9083	Ave		2.8676			12.4		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.: 200-45174-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
Ethanol	++++ 0.6941	++++ 0.6526	0.9500 0.5428	0.7605	0.8976	Ave		0.7496			20.4		30.0				
Ethyl ether	++++ 0.9676	0.6857 0.9858	1.0643 0.9362	0.9571	1.0564	Ave		0.9504			13.3		30.0				
Acrolein	++++ 0.4879	++++ 0.5039	++++ 0.4718	0.4815	0.4934	Ave		0.4877			2.5		30.0				
Freon TF	++++ 2.8656	2.9165 2.9678	3.6569 2.8505	2.9183	2.5748	Ave		2.9643			11.2		30.0				
1,1-Dichloroethene	0.5904 1.3484	1.1451 1.3969	1.4121 1.3415	1.3150	1.2143	Ave		1.2205			22.1		30.0				
Acetone	++++ 2.1376	++++ 2.1109	++++ 1.9233	2.4831	2.2358	Ave		2.1781			9.4		30.0				
Carbon disulfide	++++ 3.8168	++++ 3.9349	4.7317 3.7353	3.9542	3.8978	Ave		4.0118			9.0		30.0				
Isopropyl alcohol	++++ 2.3483	++++ 2.3227	++++ 2.0420	2.5241	2.2715	Ave		2.3017			7.5		30.0				
3-Chloropropene	++++ 1.7618	1.4758 1.7435	1.7985 1.5860	1.4939	1.6883	Ave		1.6497			8.0		30.0				
Acetonitrile	++++ 0.9336	++++ 0.9428	++++ 0.8910	0.9270	0.9963	Ave		0.9381			4.0		30.0				
Methylene Chloride	++++ 1.6305	++++ 1.6073	2.4040 1.4968	1.7255	1.5533	Ave		1.7362			19.4		30.0				
tert-Butyl alcohol	++++ 2.7964	++++ 2.8577	++++ 2.5866	2.7883	2.8575	Ave		2.7773			4.0		30.0				
Methyl tert-butyl ether	++++ 3.8944	2.8498 4.0258	3.9216 3.8272	3.7079	3.8132	Ave		3.7200			10.7		30.0				
trans-1,2-Dichloroethene	++++ 1.9341	1.6479 1.9812	2.1930 1.8880	1.8935	1.9800	Ave		1.9311			8.4		30.0				
Acrylonitrile	++++ 0.8960	++++ 0.9258	0.8702 0.9031	0.8710	0.9044	Ave		0.8951			2.4		30.0				
n-Hexane	++++ 2.2958	1.7590 2.3191	2.3724 2.2032	2.2255	2.3268	Ave		2.2145			9.5		30.0				
1,1-Dichloroethane	2.0757 2.5596	2.7635 2.5983	3.3181 2.4285	2.6269	2.5877	Ave		2.6198			13.3		30.0				
Vinyl acetate	++++ 3.5544	++++ 3.6576	++++ 3.4463	3.3064	3.5199	Ave		3.4072			7.3		30.0				
cis-1,2-Dichloroethene	0.4972 1.3924	1.2267 1.4559	1.5000 1.4407	1.3404	1.3439	Ave		1.2747			25.5		30.0				
Methyl Ethyl Ketone	++++ 0.7253	++++ 0.7469	++++ 0.7322	0.7832	0.7131	Ave		0.7340			3.9		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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

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	++++ 0.1203	++++ 0.1302	++++ 0.1286	0.1170	0.1168	Ave		0.1226			5.2		30.0				
Tetrahydrofuran	++++ 0.3308	++++ 0.3297	++++ 0.3084	0.3299	0.3585	Ave		0.3315			5.4		30.0				
Chloroform	++++ 2.8827	2.8482 2.9279	3.7206 2.7881	2.9767	2.8310	Ave		2.9965			10.9		30.0				
Cyclohexane	++++ 0.3686	0.2946 0.3914	0.3857 0.3852	0.3503	0.3692	Ave		0.3636			9.2		30.0				
1,1,1-Trichloroethane	++++ 0.5798	0.6206 0.6033	0.7193 0.5826	0.5797	0.5733	Ave		0.6084			8.5		30.0				
Carbon tetrachloride	0.4941 0.5845	0.5721 0.6113	0.7356 0.5701	0.5889	0.5822	Ave		0.5924			11.3		30.0				
2,2,4-Trimethylpentane	++++ 1.4186	1.0882 1.4665	1.4970 1.3838	1.3801	1.4435	Ave		1.3825			9.9		30.0				
Benzene	++++ 0.8623	0.8644 0.8967	1.1050 0.8630	0.8726	0.8696	Ave		0.9048			9.8		30.0				
1,2-Dichloroethane	0.2179 0.3576	0.3368 0.3659	0.4361 0.3455	0.3705	0.3600	Ave		0.3488			17.4		30.0				
n-Heptane	++++ 0.5449	0.3949 0.5534	0.5375 0.5150	0.5421	0.5695	Ave		0.5225			11.2		30.0				
n-Butanol	++++ 0.1832	++++ 0.1906	++++ 0.1765	0.1771	0.1874	Ave		0.1830			3.4		30.0				
Trichloroethene	0.2555 0.3679	0.3625 0.3867	0.4498 0.3808	0.3613	0.3650	Ave		0.3662			14.6		30.0				
1,2-Dichloropropane	++++ 0.3334	0.3350 0.3431	0.4103 0.3279	0.3377	0.3362	Ave		0.3462			8.3		30.0				
Methyl methacrylate	++++ 0.3154	++++ 0.3331	0.2623 0.3254	0.2876	0.3186	Ave		0.3071			8.7		30.0				
1,4-Dioxane	++++ 0.1735	++++ 0.1807	++++ 0.1672	0.1762	0.1685	Ave		0.1732			3.2		30.0				
Dibromomethane	++++ 0.3448	0.3057 0.3723	0.3959 0.3765	0.3329	0.3405	Ave		0.3527			8.7		30.0				
Bromodichloromethane	++++ 0.6151	0.5940 0.6398	0.7277 0.6090	0.6200	0.6279	Ave		0.6333			7.0		30.0				
cis-1,3-Dichloropropene	++++ 0.4831	0.3274 0.5111	0.4410 0.5034	0.4337	0.4502	Ave		0.4500			13.8		30.0				
methyl isobutyl ketone	++++ 0.7234	++++ 0.7279	0.6861 0.6794	0.7253	0.7428	Ave		0.7141			3.6		30.0				
Toluene	++++ 0.6730	0.5065 0.7010	0.7093 0.6914	0.6654	0.6790	Ave		0.6608			10.6		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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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-Octane	++++ 0.7990	0.5023 0.7984	0.7370 0.7294	0.8044	0.8371	Ave		0.7439			15.2		30.0				
trans-1,3-Dichloropropene	++++ 0.4353	0.3251 0.4603	0.3991 0.4494	0.3885	0.4444	Ave		0.4146			11.5		30.0				
1,1,2-Trichloroethane	++++ 0.3369	0.2982 0.3459	0.3962 0.3368	0.3407	0.3471	Ave		0.3431			8.4		30.0				
Tetrachloroethene	0.3289 0.5784	0.5594 0.6038	0.6825 0.6012	0.5663	0.5764	Ave		0.5621			18.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.7073	++++ 0.7130	0.6207 0.6745	0.6755	0.7163	Ave		0.6846			5.3		30.0				
Dibromochloromethane	++++ 0.6937	0.6178 0.7226	0.7606 0.6900	0.6602	0.6709	Ave		0.6880			6.6		30.0				
1,2-Dibromoethane	++++ 0.5797	0.4869 0.6056	0.5957 0.6009	0.5424	0.5732	Ave		0.5692			7.4		30.0				
Chlorobenzene	++++ 0.8771	0.8425 0.9100	1.0550 0.8832	0.8717	0.8719	Ave		0.9016			7.8		30.0				
Ethylbenzene	++++ 1.5127	1.1983 1.5541	1.5297 1.4821	1.4627	1.5120	Ave		1.4645			8.3		30.0				
n-Nonane	++++ 0.7909	0.5326 0.7985	0.7518 0.7550	0.7854	0.7975	Ave		0.7445			12.8		30.0				
m,p-Xylene	++++ 0.6016	0.4158 0.6224	0.5888 0.6088	0.5799	0.6046	Ave		0.5745			12.4		30.0				
Xylene, o-	++++ 0.5694	0.3712 0.5956	0.5017 0.5800	0.5435	0.5789	Ave		0.5343			14.7		30.0				
Styrene	++++ 0.9261	0.4482 0.9636	0.7107 0.9460	0.8515	0.8918	Ave		0.8197			22.5		30.0				
Bromoform	++++ 0.7504	0.5311 0.7787	0.6759 0.6987	0.6687	0.7044	Ave		0.6868			11.5		30.0				
Cumene	++++ 1.7361	1.0688 1.7711	1.5224 1.6704	1.6741	1.7280	Ave		1.5959			15.4		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.9372	0.8666 0.9448	1.1020 0.8908	0.9452	0.9717	Ave		0.9512			7.9		30.0				
n-Propylbenzene	++++ 2.1382	1.3844 2.1548	1.9966 1.9975	2.0936	2.1598	Ave		1.9893			13.9		30.0				
1,2,3-Trichloropropane	++++ 0.7289	++++ 0.7435	0.8739 0.7082	0.7407	0.7227	Ave		0.7530			8.1		30.0				
n-Decane	++++ 1.0681	++++ 1.0807	0.8940 1.0016	1.0617	1.0735	Ave		1.0299			7.0		30.0				
4-Ethyltoluene	++++ 1.7880	0.9799 1.8257	1.6499 1.7392	1.7532	1.8178	Ave		1.6505			18.3		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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
2-Chlorotoluene	++++ 1.4936	1.3586 1.5204	1.5930 1.4678	1.4624	1.5072	Ave		1.4861			4.8		30.0				
1,3,5-Trimethylbenzene	++++ 1.4715	1.0060 1.5069	1.4434 1.4234	1.4597	1.4969	Ave		1.4011			12.6		30.0				
Alpha Methyl Styrene	++++ 0.7589	0.3040 0.7947	0.5025 0.7779	0.6854	0.7226	Ave		0.6494			27.9		30.0				
tert-Butylbenzene	++++ 1.4401	0.9005 1.4699	1.3424 1.3814	1.4307	1.4497	Ave		1.3450			14.9		30.0				
1,2,4-Trimethylbenzene	++++ 1.4944	0.7515 1.5207	1.2656 1.4298	1.4584	1.5095	Ave		1.3471			20.5		30.0				
sec-Butylbenzene	++++ 2.2628	1.3523 2.2853	2.0449 2.0812	2.2412	2.2552	Ave		2.0747			16.0		30.0				
4-Isopropyltoluene	++++ 1.8925	0.9713 1.9272	1.4841 1.7822	1.8309	1.8446	Ave		1.6761			20.5		30.0				
1,3-Dichlorobenzene	++++ 1.0035	0.5012 1.0517	0.7866 1.0089	0.9495	0.9978	Ave		0.8999			21.7		30.0				
1,4-Dichlorobenzene	++++ 0.9500	0.5334 1.0041	0.7363 0.9869	0.8642	0.9346	Ave		0.8585			19.8		30.0				
Benzyl chloride	++++ 1.1359	0.4078 1.2395	0.6270 1.2012	0.9842	1.0966	Ave		0.9560			33.1	*	30.0				
n-Butylbenzene	++++ 1.8398	0.8228 1.8583	1.1609 1.7072	1.7118	1.7317	Ave		1.5475			25.6		30.0				
n-Undecane	++++ 1.0280	++++ 1.0633	++++ 0.9573	0.9842	0.9932	Ave		1.0052			4.1		30.0				
1,2-Dichlorobenzene	++++ 0.9634	0.5646 0.9916	0.8313 0.9539	0.9245	0.9394	Ave		0.8813			16.8		30.0				
n-Dodecane	++++ 0.7822	++++ 0.8508	++++ 0.8029	0.7248	0.6951	Ave		0.7711			8.1		30.0				
1,2,4-Trichlorobenzene	++++ 0.4592	++++ 0.5426	0.2509 0.5705	0.3459	0.3643	Ave		0.4222			29.3		30.0				
Hexachlorobutadiene	++++ 0.6587	0.5311 0.6945	0.7576 0.6877	0.6325	0.5852	Ave		0.6496			11.5		30.0				
Naphthalene	++++ 0.8313	++++ 1.0843	0.4158 1.1385	0.6253	0.5941	Ave		0.7816			36.9	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.3989	++++ 0.4718	0.2862 0.4761	0.3476	0.3075	Ave		0.3813			21.3		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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 229081	++++ 335104	++++ 690029	63771	138500	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 629173	++++ 942372	19148 1980898	170783	394190	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 387457	++++ 575969	12658 1191607	109340	244610	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	567 678166	6769 1018346	19960 2158127	184446	454360	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 242689	++++ 357828	7990 740620	67774	146273	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 439449	++++ 655562	14741 1359460	121381	283751	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	296 282171	2644 425659	8091 894131	75350	172859	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	119 215303	1906 325794	5646 686730	58034	135622	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 225216	2545 345434	7407 754787	63734	140007	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 137625	++++ 208781	4325 452875	39800	87113	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 331254	3842 498646	10377 1049139	96032	215321	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 210584	2065 335454	5982 743730	57502	137065	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 566947	6470 881910	18260 1909630	165308	362361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 498626	++++ 753456	15902 1591384	141773	322514	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 167020	++++ 362281	42724 862523	77920	149371	++++ 20.0	++++ 40.0	5.01 100.0	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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 174248	1327 273583	4781 594977	48999	117148	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	++++ 87859	++++ 139842	++++ 299871	24649	54712	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	++++ 516034	5644 823641	16427 1811645	149408	285522	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	190 242823	2216 387669	6343 852618	67322	134660	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 384932	++++ 585817	++++ 1222345	127127	247929	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 687331	++++ 1092029	++++ 21255 2373966	202442	432235	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	++++ 422887	++++ 644593	++++ 1297823	129228	251887	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	++++ 317272	++++ 483871	2856 1007982	8079	76484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 168129	++++ 261638	++++ 566277	47460	110481	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	++++ 293627	++++ 446073	++++ 10799 951275	88340	172248	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 503574	++++ 793069	++++ 1643925	142752	316870	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 701312	++++ 1117268	5515 17616 2432364	189832	422856	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 348287	++++ 549843	++++ 3909 1199895	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	++++ 161348	++++ 256918	++++ 573972	3909	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 413422	++++ 3404 643604	10657 1400263	113942	258023	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	668 460942	5348 721082	14905 1543449	134488	286961	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	++++ 640076	++++ 1015068	13289 2190326	169281	390327	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	160 250749	2374 404053	6738 915622	68626	149030	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 130605	++++ 207286	++++ 3518 465374	35997	79074	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	++++ 21663	++++ 36137	++++ 81707	5988	12951	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	++++ 303981	++++ 457752	++++ 977217	87053	201059	++++ 15.0	++++ 20.0	++++ 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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 519124	5512 812567	16713 1771953	152398	313936	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 338659	2861 543389	8752 1220355	92448	207091	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 532749	6027 837639	16321 1845623	152974	321515	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	814 537087	5556 848776	16691 1806258	155416	326541	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1303438	10569 2036083	33966 4383950	364201	809570	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 792281	8395 1244933	25071 2734241	230283	487727	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	359 328527	3271 508017	9894 1094664	97779	201898	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 500617	3835 768347	12196 1631660	143058	319384	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 168312	++++ 264629	++++ 559265	46746	105126	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	421 338005	3521 536864	10205 1206565	95352	204695	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 306308	3254 476382	9309 1038944	89132	188556	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 289766	++++ 462464	5951 1030816	75891	178695	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 159371	++++ 250917	++++ 529826	46512	94475	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 316837	2969 516873	8982 1192793	87852	190974	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 565141	5769 888231	16511 1929257	163609	352152	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 443842	3180 709590	10005 1594798	114446	252519	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 664639	++++ 1010644	15566 2152561	191400	416594	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 575303	4332 911894	14298 2054489	160317	355280	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 734103	4878 1108548	16723 2310758	212276	469471	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 399964	3157 639104	9055 1423769	102523	249237	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 288016	2550 449990	7986 1000684	82086	181629	++++ 15.0	0.200 20.0	0.500 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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	472 494454	4784 785431	13757 1786299	136429	301636	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 604631	++++ 927549	12512 2004253	162742	374802	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 592982	5284 939917	15331 2050177	159064	351064	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 495526	4164 787799	12007 1785575	130680	299961	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 749791	7206 1183754	21265 2624429	210004	456227	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 1293154	10249 2021657	30835 4403857	352386	791165	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 676117	4555 1038709	15155 2243494	189211	417329	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 1028524	7112 1619205	23736 3618113	279423	632702	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 486724	3175 774769	10113 1723350	130937	302915	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 791668	3833 1253520	14326 2810854	205152	466651	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 641511	4542 1012907	13625 2076183	161107	368593	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 1484104	9141 2303914	30688 4963433	403334	904238	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 801211	7412 1229077	22214 2646811	227707	508484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 1827875	11840 2802981	40245 5935490	504393	1130178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 623101	++++ 967131	17616 2104294	178454	378183	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 913086	++++ 1405856	18020 2976041	255781	561742	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 1528529	8381 2374846	33258 5167998	422372	951220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 1276835	11620 1977789	32110 4361512	352312	788674	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 1257942	8604 1960263	29094 4229571	351662	783282	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 648755	2600 1033742	10129 2311552	165135	378138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 1231088	7702 1912104	27059 4104582	344688	758579	++++ 15.0	0.200 20.0	0.500 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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1277476	6427 1978223	25511 4248469	351346	789880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 1934375	11566 2972776	41219 6184064	539942	1180094	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 1617829	8307 2506935	29915 5295535	441105	965217	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 857866	4287 1368110	15856 2997986	228757	522107	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 812084	4562 1306110	14842 2932640	208199	489040	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 971036	3488 1612348	12639 3569163	237101	573804	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 1572760	7037 2417337	23401 5072861	412398	906138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 878815	++++ 1383209	++++ 2844677	237105	519723	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 823592	4829 1289953	16757 2834408	222741	491548	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 668660	++++ 1106730	++++ 2385792	174613	363702	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 392593	++++ 705832	5057 1695136	83337	190617	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 563076	4542 903451	15272 2043487	152392	306198	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 710625	++++ 1410519	8381 3383017	150653	310901	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 340978	++++ 613706	5769 1414632	83747	160899	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.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	++++ 1.2721	++++ 1.2075	++++ 1.0857	1.2456	1.2490	Ave		1.2120			6.1		30.0				
Dichlorodifluoromethane	++++ 3.4938	++++ 3.3956	++++ 4.2627 3.1168	3.3358	3.5547	Ave		3.5266			11.1		30.0				
Freon 22	++++ 2.1516	++++ 2.0754	++++ 2.8179 1.8749	2.1357	2.2058	Ave		2.2102			14.4		30.0				
1,2-Dichlorotetrafluoroethane	1.7619 3.7659	3.4978 3.6694	4.4434 3.3957	3.6027	4.0973	Ave		3.5293			22.4		30.0				
Chloromethane	++++ 1.3477	++++ 1.2894	1.7787 1.1653	1.3238	1.3191	Ave		1.3706			15.3		30.0				
n-Butane	++++ 2.4403	++++ 2.3622	++++ 3.2816 2.1390	2.3709	2.5588	Ave		2.5255			15.6		30.0				
Vinyl chloride	0.9198 1.5669	1.3662 1.5338	1.8012 1.4069	1.4718	1.5588	Ave		1.4532			17.4		30.0				
1,3-Butadiene	0.3698 1.1956	0.9849 1.1739	1.2569 1.0805	1.1335	1.2230	Ave		1.0523			27.5		30.0				
Bromomethane	++++ 1.2506	1.3151 1.2447	1.6489 1.1876	1.2449	1.2625	Ave		1.3078			11.9		30.0				
Chloroethane	++++ 0.7642	++++ 0.7523	0.9628 0.7126	0.7774	0.7856	Ave		0.7925			11.0		30.0				
Isopentane	++++ 1.8395	1.9853 1.7968	2.3101 1.6508	1.8757	1.9417	Ave		1.9143			10.7		30.0				
Bromoethene (Vinyl Bromide)	++++ 1.1694	1.0671 1.2087	1.3317 1.1702	1.1231	1.2360	Ave		1.1866			7.1		30.0				
Trichlorofluoromethane	++++ 3.1483	3.3433 3.1778	4.0650 3.0047	3.2288	3.2677	Ave		3.3194			10.4		30.0				
n-Pentane	++++ 2.7689	++++ 2.7149	3.5401 2.5039	2.7692	2.9083	Ave		2.8676			12.4		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.: 200-45175-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
Ethanol	++++ 0.6941	++++ 0.6526	0.9500 0.5428	0.7605	0.8976	Ave		0.7496			20.4		30.0				
Ethyl ether	++++ 0.9676	0.6857 0.9858	1.0643 0.9362	0.9571	1.0564	Ave		0.9504			13.3		30.0				
Acrolein	++++ 0.4879	++++ 0.5039	++++ 0.4718	0.4815	0.4934	Ave		0.4877			2.5		30.0				
Freon TF	++++ 2.8656	2.9165 2.9678	3.6569 2.8505	2.9183	2.5748	Ave		2.9643			11.2		30.0				
1,1-Dichloroethene	0.5904 1.3484	1.1451 1.3969	1.4121 1.3415	1.3150	1.2143	Ave		1.2205			22.1		30.0				
Acetone	++++ 2.1376	++++ 2.1109	++++ 1.9233	2.4831	2.2358	Ave		2.1781			9.4		30.0				
Carbon disulfide	++++ 3.8168	++++ 3.9349	4.7317 3.7353	3.9542	3.8978	Ave		4.0118			9.0		30.0				
Isopropyl alcohol	++++ 2.3483	++++ 2.3227	++++ 2.0420	2.5241	2.2715	Ave		2.3017			7.5		30.0				
3-Chloropropene	++++ 1.7618	1.4758 1.7435	1.7985 1.5860	1.4939	1.6883	Ave		1.6497			8.0		30.0				
Acetonitrile	++++ 0.9336	++++ 0.9428	++++ 0.8910	0.9270	0.9963	Ave		0.9381			4.0		30.0				
Methylene Chloride	++++ 1.6305	++++ 1.6073	2.4040 1.4968	1.7255	1.5533	Ave		1.7362			19.4		30.0				
tert-Butyl alcohol	++++ 2.7964	++++ 2.8577	++++ 2.5866	2.7883	2.8575	Ave		2.7773			4.0		30.0				
Methyl tert-butyl ether	++++ 3.8944	2.8498 4.0258	3.9216 3.8272	3.7079	3.8132	Ave		3.7200			10.7		30.0				
trans-1,2-Dichloroethene	++++ 1.9341	1.6479 1.9812	2.1930 1.8880	1.8935	1.9800	Ave		1.9311			8.4		30.0				
Acrylonitrile	++++ 0.8960	++++ 0.9258	0.8702 0.9031	0.8710	0.9044	Ave		0.8951			2.4		30.0				
n-Hexane	++++ 2.2958	1.7590 2.3191	2.3724 2.2032	2.2255	2.3268	Ave		2.2145			9.5		30.0				
1,1-Dichloroethane	2.0757 2.5596	2.7635 2.5983	3.3181 2.4285	2.6269	2.5877	Ave		2.6198			13.3		30.0				
Vinyl acetate	++++ 3.5544	++++ 3.6576	++++ 3.4463	3.3064	3.5199	Ave		3.4072			7.3		30.0				
cis-1,2-Dichloroethene	0.4972 1.3924	1.2267 1.4559	1.5000 1.4407	1.3404	1.3439	Ave		1.2747			25.5		30.0				
Methyl Ethyl Ketone	++++ 0.7253	++++ 0.7469	++++ 0.7322	0.7832	0.7131	Ave		0.7340			3.9		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.: 200-45175-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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	++++ 0.1203	++++ 0.1302	++++ 0.1286	0.1170	0.1168	Ave		0.1226			5.2		30.0				
Tetrahydrofuran	++++ 0.3308	++++ 0.3297	++++ 0.3084	0.3299	0.3585	Ave		0.3315			5.4		30.0				
Chloroform	++++ 2.8827	2.8482 2.9279	3.7206 2.7881	2.9767	2.8310	Ave		2.9965			10.9		30.0				
Cyclohexane	++++ 0.3686	0.2946 0.3914	0.3857 0.3852	0.3503	0.3692	Ave		0.3636			9.2		30.0				
1,1,1-Trichloroethane	++++ 0.5798	0.6206 0.6033	0.7193 0.5826	0.5797	0.5733	Ave		0.6084			8.5		30.0				
Carbon tetrachloride	0.4941 0.5845	0.5721 0.6113	0.7356 0.5701	0.5889	0.5822	Ave		0.5924			11.3		30.0				
2,2,4-Trimethylpentane	++++ 1.4186	1.0882 1.4665	1.4970 1.3838	1.3801	1.4435	Ave		1.3825			9.9		30.0				
Benzene	++++ 0.8623	0.8644 0.8967	1.1050 0.8630	0.8726	0.8696	Ave		0.9048			9.8		30.0				
1,2-Dichloroethane	0.2179 0.3576	0.3368 0.3659	0.4361 0.3455	0.3705	0.3600	Ave		0.3488			17.4		30.0				
n-Heptane	++++ 0.5449	0.3949 0.5534	0.5375 0.5150	0.5421	0.5695	Ave		0.5225			11.2		30.0				
n-Butanol	++++ 0.1832	++++ 0.1906	++++ 0.1765	0.1771	0.1874	Ave		0.1830			3.4		30.0				
Trichloroethene	0.2555 0.3679	0.3625 0.3867	0.4498 0.3808	0.3613	0.3650	Ave		0.3662			14.6		30.0				
1,2-Dichloropropane	++++ 0.3334	0.3350 0.3431	0.4103 0.3279	0.3377	0.3362	Ave		0.3462			8.3		30.0				
Methyl methacrylate	++++ 0.3154	++++ 0.3331	++++ 0.2623 0.3254	0.2876	0.3186	Ave		0.3071			8.7		30.0				
1,4-Dioxane	++++ 0.1735	++++ 0.1807	++++ 0.1672	0.1762	0.1685	Ave		0.1732			3.2		30.0				
Dibromomethane	++++ 0.3448	0.3057 0.3723	0.3959 0.3765	0.3329	0.3405	Ave		0.3527			8.7		30.0				
Bromodichloromethane	++++ 0.6151	0.5940 0.6398	0.7277 0.6090	0.6200	0.6279	Ave		0.6333			7.0		30.0				
cis-1,3-Dichloropropene	++++ 0.4831	0.3274 0.5111	0.4410 0.5034	0.4337	0.4502	Ave		0.4500			13.8		30.0				
methyl isobutyl ketone	++++ 0.7234	++++ 0.7279	0.6861 0.6794	0.7253	0.7428	Ave		0.7141			3.6		30.0				
Toluene	++++ 0.6730	0.5065 0.7010	0.7093 0.6914	0.6654	0.6790	Ave		0.6608			10.6		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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

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-Octane	++++ 0.7990	0.5023 0.7984	0.7370 0.7294	0.8044	0.8371	Ave		0.7439			15.2		30.0				
trans-1,3-Dichloropropene	++++ 0.4353	0.3251 0.4603	0.3991 0.4494	0.3885	0.4444	Ave		0.4146			11.5		30.0				
1,1,2-Trichloroethane	++++ 0.3369	0.2982 0.3459	0.3962 0.3368	0.3407	0.3471	Ave		0.3431			8.4		30.0				
Tetrachloroethene	0.3289 0.5784	0.5594 0.6038	0.6825 0.6012	0.5663	0.5764	Ave		0.5621			18.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.7073	++++ 0.7130	0.6207 0.6745	0.6755	0.7163	Ave		0.6846			5.3		30.0				
Dibromochloromethane	++++ 0.6937	0.6178 0.7226	0.7306 0.6900	0.6602	0.6709	Ave		0.6880			6.6		30.0				
1,2-Dibromoethane	++++ 0.5797	0.4869 0.6056	0.5957 0.6009	0.5424	0.5732	Ave		0.5692			7.4		30.0				
Chlorobenzene	++++ 0.8771	0.8425 0.9100	1.0550 0.8832	0.8717	0.8719	Ave		0.9016			7.8		30.0				
Ethylbenzene	++++ 1.5127	1.1983 1.5541	1.5297 1.4821	1.4627	1.5120	Ave		1.4645			8.3		30.0				
n-Nonane	++++ 0.7909	0.5326 0.7985	0.7518 0.7550	0.7854	0.7975	Ave		0.7445			12.8		30.0				
m,p-Xylene	++++ 0.6016	0.4158 0.6224	0.5888 0.6088	0.5799	0.6046	Ave		0.5745			12.4		30.0				
Xylene, o-	++++ 0.5694	0.3712 0.5956	0.5017 0.5800	0.5435	0.5789	Ave		0.5343			14.7		30.0				
Styrene	++++ 0.9261	0.4482 0.9636	0.7107 0.9460	0.8515	0.8918	Ave		0.8197			22.5		30.0				
Bromoform	++++ 0.7504	0.5311 0.7787	0.6759 0.6987	0.6687	0.7044	Ave		0.6868			11.5		30.0				
Cumene	++++ 1.7361	1.0688 1.7711	1.5224 1.6704	1.6741	1.7280	Ave		1.5959			15.4		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.9372	0.8666 0.9448	1.1020 0.8908	0.9452	0.9717	Ave		0.9512			7.9		30.0				
n-Propylbenzene	++++ 2.1382	1.3844 2.1548	1.9966 1.9975	2.0936	2.1598	Ave		1.9893			13.9		30.0				
1,2,3-Trichloropropane	++++ 0.7289	++++ 0.7435	0.8739 0.7082	0.7407	0.7227	Ave		0.7530			8.1		30.0				
n-Decane	++++ 1.0681	++++ 1.0807	0.8940 1.0016	1.0617	1.0735	Ave		1.0299			7.0		30.0				
4-Ethyltoluene	++++ 1.7880	0.9799 1.8257	1.6499 1.7392	1.7532	1.8178	Ave		1.6505			18.3		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.: 200-45175-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
2-Chlorotoluene	++++ 1.4936	1.3586 1.5204	1.5930 1.4678	1.4624	1.5072	Ave		1.4861			4.8		30.0				
1,3,5-Trimethylbenzene	++++ 1.4715	1.0060 1.5069	1.4434 1.4234	1.4597	1.4969	Ave		1.4011			12.6		30.0				
Alpha Methyl Styrene	++++ 0.7589	0.3040 0.7947	0.5025 0.7779	0.6854	0.7226	Ave		0.6494			27.9		30.0				
tert-Butylbenzene	++++ 1.4401	0.9005 1.4699	1.3424 1.3814	1.4307	1.4497	Ave		1.3450			14.9		30.0				
1,2,4-Trimethylbenzene	++++ 1.4944	0.7515 1.5207	1.2656 1.4298	1.4584	1.5095	Ave		1.3471			20.5		30.0				
sec-Butylbenzene	++++ 2.2628	1.3523 2.2853	2.0449 2.0812	2.2412	2.2552	Ave		2.0747			16.0		30.0				
4-Isopropyltoluene	++++ 1.8925	0.9713 1.9272	1.4841 1.7822	1.8309	1.8446	Ave		1.6761			20.5		30.0				
1,3-Dichlorobenzene	++++ 1.0035	0.5012 1.0517	0.7866 1.0089	0.9495	0.9978	Ave		0.8999			21.7		30.0				
1,4-Dichlorobenzene	++++ 0.9500	0.5334 1.0041	0.7363 0.9869	0.8642	0.9346	Ave		0.8585			19.8		30.0				
Benzyl chloride	++++ 1.1359	0.4078 1.2395	0.6270 1.2012	0.9842	1.0966	Ave		0.9560			33.1	*	30.0				
n-Butylbenzene	++++ 1.8398	0.8228 1.8583	1.1609 1.7072	1.7118	1.7317	Ave		1.5475			25.6		30.0				
n-Undecane	++++ 1.0280	++++ 1.0633	++++ 0.9573	0.9842	0.9932	Ave		1.0052			4.1		30.0				
1,2-Dichlorobenzene	++++ 0.9634	0.5646 0.9916	0.8313 0.9539	0.9245	0.9394	Ave		0.8813			16.8		30.0				
n-Dodecane	++++ 0.7822	++++ 0.8508	++++ 0.8029	0.7248	0.6951	Ave		0.7711			8.1		30.0				
1,2,4-Trichlorobenzene	++++ 0.4592	++++ 0.5426	0.2509 0.5705	0.3459	0.3643	Ave		0.4222			29.3		30.0				
Hexachlorobutadiene	++++ 0.6587	0.5311 0.6945	0.7576 0.6877	0.6325	0.5852	Ave		0.6496			11.5		30.0				
Naphthalene	++++ 0.8313	++++ 1.0843	0.4158 1.1385	0.6253	0.5941	Ave		0.7816			36.9	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.3989	++++ 0.4718	0.2862 0.4761	0.3476	0.3075	Ave		0.3813			21.3		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.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 229081	++++ 335104	++++ 690029	63771	138500	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 629173	++++ 942372	19148 1980898	170783	394190	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 387457	++++ 575969	12658 1191607	109340	244610	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	567 678166	6769 1018346	19960 2158127	184446	454360	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 242689	++++ 357828	7990 740620	67774	146273	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 439449	++++ 655562	14741 1359460	121381	283751	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	296 282171	2644 425659	8091 894131	75350	172859	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	119 215303	1906 325794	5646 686730	58034	135622	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 225216	2545 345434	7407 754787	63734	140007	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 137625	++++ 208781	4325 452875	39800	87113	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 331254	3842 498646	10377 1049139	96032	215321	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 210584	2065 335454	5982 743730	57502	137065	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 566947	6470 881910	18260 1909630	165308	362361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 498626	++++ 753456	15902 1591384	141773	322514	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 167020	++++ 362281	42724 862523	77920	149371	++++ 20.0	++++ 40.0	5.01 100.0	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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	
Ethyl ether	BCM	Ave	++++ 174248	1327 273583	4781 594977	48999	117148	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acrolein	BCM	Ave	++++ 87859	++++ 139842	++++ 299871	24649	54712	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Freon TF	BCM	Ave	++++ 516034	5644 823641	16427 1811645	149408	285522	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethene	BCM	Ave	190 242823	2216 387669	6343 852618	67322	134660	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acetone	BCM	Ave	++++ 384932	++++ 585817	++++ 1222345	127127	247929	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Carbon disulfide	BCM	Ave	++++ 687331	++++ 1092029	++++ 21255 2373966	202442	432235	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Isopropyl alcohol	BCM	Ave	++++ 422887	++++ 644593	++++ 1297823	129228	251887	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
3-Chloropropene	BCM	Ave	++++ 317272	++++ 483871	2856 1007982	8079	76484	187215	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 168129	++++ 261638	++++ 566277	47460	110481	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methylene Chloride	BCM	Ave	++++ 293627	++++ 446073	++++ 10799 951275	88340	172248	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
tert-Butyl alcohol	BCM	Ave	++++ 503574	++++ 793069	++++ 1643925	142752	316870	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methyl tert-butyl ether	BCM	Ave	++++ 701312	++++ 1117268	5515 17616 2432364	189832	422856	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
trans-1,2-Dichloroethene	BCM	Ave	++++ 348287	++++ 549843	++++ 3909 1199895	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Acrylonitrile	BCM	Ave	++++ 161348	++++ 256918	++++ 3909 573972	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
n-Hexane	BCM	Ave	++++ 413422	++++ 3404 643604	10657 1400263	113942	258023	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethane	BCM	Ave	668 460942	5348 721082	14905 1543449	134488	286961	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Vinyl acetate	BCM	Ave	++++ 640076	++++ 1015068	13289 2190326	169281	390327	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
cis-1,2-Dichloroethene	BCM	Ave	160 250749	2374 404053	6738 915622	68626	149030	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Methyl Ethyl Ketone	BCM	Ave	++++ 130605	++++ 207286	++++ 3518 465374	35997	79074	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Ethyl acetate	BCM	Ave	++++ 21663	++++ 36137	++++ 81707	5988	12951	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Tetrahydrofuran	DFBZ	Ave	++++ 303981	++++ 457752	++++ 977217	87053	201059	++++ 15.0	++++ 20.0	++++ 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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 519124	5512 812567	16713 1771953	152398	313936	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 338659	2861 543389	8752 1220355	92448	207091	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 532749	6027 837639	16321 1845623	152974	321515	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	814 537087	5556 848776	16691 1806258	155416	326541	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1303438	10569 2036083	33966 4383950	364201	809570	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 792281	8395 1244933	25071 2734241	230283	487727	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	359 328527	3271 508017	9894 1094664	97779	201898	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 500617	3835 768347	12196 1631660	143058	319384	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 168312	++++ 264629	++++ 559265	46746	105126	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	421 338005	3521 536864	10205 1206565	95352	204695	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 306308	3254 476382	9309 1038944	89132	188556	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 289766	++++ 462464	5951 1030816	75891	178695	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 159371	++++ 250917	++++ 529826	46512	94475	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 316837	2969 516873	8982 1192793	87852	190974	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 565141	5769 888231	16511 1929257	163609	352152	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 443842	3180 709590	10005 1594798	114446	252519	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 664639	++++ 1010644	15566 2152561	191400	416594	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 575303	4332 911894	14298 2054489	160317	355280	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 734103	4878 1108548	16723 2310758	212276	469471	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 399964	3157 639104	9055 1423769	102523	249237	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 288016	2550 449990	7986 1000684	82086	181629	++++ 15.0	0.200 20.0	0.500 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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	472 494454	4784 785431	13757 1786299	136429	301636	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 604631	++++ 927549	12512 2004253	162742	374802	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 592982	5284 939917	15331 2050177	159064	351064	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 495526	4164 787799	12007 1785575	130680	299961	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 749791	7206 1183754	21265 2624429	210004	456227	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 1293154	10249 2021657	30835 4403857	352386	791165	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 676117	4555 1038709	15155 2243494	189211	417329	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 1028524	7112 1619205	23736 3618113	279423	632702	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 486724	3175 774769	10113 1723350	130937	302915	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 791668	3833 1253520	14326 2810854	205152	466651	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 641511	4542 1012907	13625 2076183	161107	368593	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 1484104	9141 2303914	30688 4963433	403334	904238	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 801211	7412 1229077	22214 2646811	227707	508484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 1827875	11840 2802981	40245 5935490	504393	1130178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 623101	++++ 967131	17616 2104294	178454	378183	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 913086	++++ 1405856	18020 2976041	255781	561742	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 1528529	8381 2374846	33258 5167998	422372	951220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 1276835	11620 1977789	32110 4361512	352312	788674	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 1257942	8604 1960263	29094 4229571	351662	783282	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 648755	2600 1033742	10129 2311552	165135	378138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 1231088	7702 1912104	27059 4104582	344688	758579	++++ 15.0	0.200 20.0	0.500 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.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1277476	6427 1978223	25511 4248469	351346	789880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 1934375	11566 2972776	41219 6184064	539942	1180094	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 1617829	8307 2506935	29915 5295535	441105	965217	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 857866	4287 1368110	15856 2997986	228757	522107	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 812084	4562 1306110	14842 2932640	208199	489040	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 971036	3488 1612348	12639 3569163	237101	573804	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 1572760	7037 2417337	23401 5072861	412398	906138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 878815	++++ 1383209	++++ 2844677	237105	519723	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 823592	4829 1289953	16757 2834408	222741	491548	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 668660	++++ 1106730	++++ 2385792	174613	363702	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 392593	++++ 705832	5057 1695136	83337	190617	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 563076	4542 903451	15272 2043487	152392	306198	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 710625	++++ 1410519	8381 3383017	150653	310901	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 340978	++++ 613706	5769 1414632	83747	160899	++++ 15.0	++++ 20.0	0.500 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.212	1.148		9.47	10.0	-5.3	30.0
Dichlorodifluoromethane	Ave	3.527	3.409		9.66	10.0	-3.3	30.0
Freon 22	Ave	2.210	2.083		9.42	10.0	-5.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.930		11.1	10.0	11.3	30.0
Chloromethane	Ave	1.371	1.247		9.10	10.0	-9.0	30.0
n-Butane	Ave	2.525	2.333		9.23	10.0	-7.6	30.0
Vinyl chloride	Ave	1.453	1.455		10.0	10.0	0.1	30.0
1,3-Butadiene	Ave	1.052	1.141		10.8	10.0	8.4	30.0
Bromomethane	Ave	1.308	1.241		9.49	10.0	-5.1	30.0
Chloroethane	Ave	0.7925	0.7460		9.41	10.0	-5.9	30.0
Isopentane	Ave	1.914	1.771		9.25	10.0	-7.5	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.248		10.5	10.0	5.2	30.0
Trichlorofluoromethane	Ave	3.319	3.241		9.76	10.0	-2.3	30.0
n-Pentane	Ave	2.868	2.707		9.44	10.0	-5.6	30.0
Ethanol	Ave	0.7496	0.6706		13.4	15.0	-10.5	30.0
Ethyl ether	Ave	0.9504	1.052		11.1	10.0	10.7	30.0
Acrolein	Ave	0.4877	0.4028		8.26	10.0	-17.4	30.0
Freon TF	Ave	2.964	2.598		8.76	10.0	-12.4	30.0
1,1-Dichloroethene	Ave	1.220	1.241		10.2	10.0	1.6	30.0
Acetone	Ave	2.178	2.268		10.4	10.0	4.1	30.0
Carbon disulfide	Ave	4.012	3.895		9.71	10.0	-2.9	30.0
Isopropyl alcohol	Ave	2.302	2.176		9.45	10.0	-5.5	30.0
3-Chloropropene	Ave	1.650	1.442		8.74	10.0	-12.6	30.0
Acetonitrile	Ave	0.9381	0.9304		9.92	10.0	-0.8	30.0
Methylene Chloride	Ave	1.736	1.431		8.24	10.0	-17.6	30.0
tert-Butyl alcohol	Ave	2.777	2.868		10.3	10.0	3.3	30.0
Methyl tert-butyl ether	Ave	3.720	3.870		10.4	10.0	4.0	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.945		10.1	10.0	0.7	30.0
Acrylonitrile	Ave	0.8951	0.8856		9.89	10.0	-1.1	30.0
n-Hexane	Ave	2.215	2.270		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	2.620	2.520		9.62	10.0	-3.8	30.0
Vinyl acetate	Ave	3.407	3.266		9.58	10.0	-4.1	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.370		10.7	10.0	7.5	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7253		9.88	10.0	-1.2	30.0
Ethyl acetate	Ave	0.1226	0.1237		10.1	10.0	0.9	30.0
Tetrahydrofuran	Ave	0.3315	0.3294		9.93	10.0	-0.6	30.0
Chloroform	Ave	2.996	2.793		9.32	10.0	-6.8	30.0
Cyclohexane	Ave	0.3636	0.3781		10.4	10.0	4.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.5794		9.52	10.0	-4.8	30.0
Carbon tetrachloride	Ave	0.5924	0.5768		9.74	10.0	-2.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.383	1.405		10.2	10.0	1.6	30.0
Benzene	Ave	0.9048	0.8567		9.47	10.0	-5.3	30.0
1,2-Dichloroethane	Ave	0.3488	0.3497		10.0	10.0	0.3	30.0
n-Heptane	Ave	0.5225	0.5250		10.0	10.0	0.5	30.0
n-Butanol	Ave	0.1830	0.1983		10.8	10.0	8.4	30.0
Trichloroethene	Ave	0.3662	0.3734		10.2	10.0	2.0	30.0
1,2-Dichloropropane	Ave	0.3462	0.3287		9.49	10.0	-5.1	30.0
Methyl methacrylate	Ave	0.3071	0.3191		10.4	10.0	3.9	30.0
1,4-Dioxane	Ave	0.1732	0.1804		10.4	10.0	4.2	30.0
Dibromomethane	Ave	0.3527	0.3560		10.1	10.0	0.9	30.0
Bromodichloromethane	Ave	0.6333	0.6204		9.79	10.0	-2.1	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4532		10.1	10.0	0.7	30.0
methyl isobutyl ketone	Ave	0.7141	0.6782		9.50	10.0	-5.0	30.0
n-Octane	Ave	0.7439	0.7604		10.2	10.0	2.2	30.0
Toluene	Ave	0.6608	0.6839		10.3	10.0	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4457		10.7	10.0	7.5	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3463		10.1	10.0	0.9	30.0
Tetrachloroethene	Ave	0.5621	0.6033		10.7	10.0	7.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.6754		9.86	10.0	-1.3	30.0
Dibromochloromethane	Ave	0.6880	0.6816		9.91	10.0	-0.9	30.0
1,2-Dibromoethane	Ave	0.5692	0.5877		10.3	10.0	3.2	30.0
Chlorobenzene	Ave	0.9016	0.8932		9.91	10.0	-0.9	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7751		10.4	10.0	4.1	30.0
m,p-Xylene	Ave	0.5745	0.6030		21.0	20.0	5.0	30.0
Xylene, o-	Ave	0.5343	0.5846		10.9	10.0	9.4	30.0
Styrene	Ave	0.8197	0.8833		10.8	10.0	7.8	30.0
Bromoform	Ave	0.6868	0.7195		10.5	10.0	4.8	30.0
Cumene	Ave	1.596	1.723		10.8	10.0	8.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9356		9.83	10.0	-1.6	30.0
n-Propylbenzene	Ave	1.989	2.122		10.7	10.0	6.7	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.6999		9.29	10.0	-7.1	30.0
n-Decane	Ave	1.030	1.012		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.651	1.792		10.9	10.0	8.5	30.0
2-Chlorotoluene	Ave	1.486	1.474		9.91	10.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.471		10.5	10.0	5.0	30.0
Alpha Methyl Styrene	Ave	0.6494	0.6932		10.7	10.0	6.7	30.0
tert-Butylbenzene	Ave	1.345	1.424		10.6	10.0	5.9	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.473		10.9	10.0	9.4	30.0
sec-Butylbenzene	Ave	2.075	2.193		10.6	10.0	5.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.676	1.813		10.8	10.0	8.2	30.0
1,3-Dichlorobenzene	Ave	0.8999	0.9868		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.8585	0.9307		10.8	10.0	8.4	30.0
Benzyl chloride	Ave	0.9560	1.006		10.5	10.0	5.2	30.0
n-Butylbenzene	Ave	1.547	1.673		10.8	10.0	8.1	30.0
n-Undecane	Ave	1.005	0.9481		9.43	10.0	-5.7	30.0
1,2-Dichlorobenzene	Ave	0.8813	0.9416		10.7	10.0	6.8	30.0
n-Dodecane	Ave	0.7711	0.6759		8.76	10.0	-12.4	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4337		10.3	10.0	2.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.6609		10.2	10.0	1.7	30.0
Naphthalene	Ave	0.7816	0.7331		9.38	10.0	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.3761		9.86	10.0	-1.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42

Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38

GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00

Lab File ID: 32143-02.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	1.212	1.380		11.4	10.0	13.9	30.0
Dichlorodifluoromethane	Ave	3.527	3.589		10.2	10.0	1.8	30.0
Freon 22	Ave	2.210	2.313		10.5	10.0	4.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.780		10.7	10.0	7.1	30.0
Chloromethane	Ave	1.371	1.426		10.4	10.0	4.0	30.0
n-Butane	Ave	2.525	2.512		9.95	10.0	-0.5	30.0
Vinyl chloride	Ave	1.453	1.503		10.3	10.0	3.5	30.0
1,3-Butadiene	Ave	1.052	1.186		11.3	10.0	12.7	30.0
Bromomethane	Ave	1.308	1.222		9.34	10.0	-6.6	30.0
Chloroethane	Ave	0.7925	0.7423		9.36	10.0	-6.3	30.0
Isopentane	Ave	1.914	1.878		9.81	10.0	-1.9	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.140		9.61	10.0	-3.9	30.0
Trichlorofluoromethane	Ave	3.319	3.329		10.0	10.0	0.3	30.0
n-Pentane	Ave	2.868	2.814		9.81	10.0	-1.9	30.0
Ethanol	Ave	0.7496	0.9127		18.3	15.0	21.8	30.0
Ethyl ether	Ave	0.9504	0.9343		9.83	10.0	-1.7	30.0
Acrolein	Ave	0.4877	0.4641		9.52	10.0	-4.8	30.0
Freon TF	Ave	2.964	2.896		9.77	10.0	-2.3	30.0
1,1-Dichloroethene	Ave	1.220	1.333		10.9	10.0	9.3	30.0
Acetone	Ave	2.178	2.274		10.4	10.0	4.4	30.0
Carbon disulfide	Ave	4.012	3.814		9.50	10.0	-4.9	30.0
Isopropyl alcohol	Ave	2.302	2.304		10.0	10.0	0.1	30.0
3-Chloropropene	Ave	1.650	1.512		9.17	10.0	-8.3	30.0
Acetonitrile	Ave	0.9381	1.000		10.7	10.0	6.6	30.0
Methylene Chloride	Ave	1.736	1.686		9.71	10.0	-2.9	30.0
tert-Butyl alcohol	Ave	2.777	2.731		9.83	10.0	-1.7	30.0
Methyl tert-butyl ether	Ave	3.720	3.851		10.3	10.0	3.5	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.930		9.99	10.0	-0.0	30.0
Acrylonitrile	Ave	0.8951	0.8810		9.84	10.0	-1.6	30.0
n-Hexane	Ave	2.215	2.240		10.1	10.0	1.1	30.0
1,1-Dichloroethane	Ave	2.620	2.622		10.0	10.0	0.0	30.0
Vinyl acetate	Ave	3.407	3.501		10.3	10.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.363		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7066		9.63	10.0	-3.7	30.0
Ethyl acetate	Ave	0.1226	0.1170		9.54	10.0	-4.5	30.0
Tetrahydrofuran	Ave	0.3315	0.3364		10.1	10.0	1.5	30.0
Chloroform	Ave	2.996	3.004		10.0	10.0	0.2	30.0
Cyclohexane	Ave	0.3636	0.3673		10.1	10.0	1.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.6364		10.5	10.0	4.6	30.0
Carbon tetrachloride	Ave	0.5924	0.6546		11.0	10.0	10.5	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.383	1.422		10.3	10.0	2.8	30.0
Benzene	Ave	0.9048	0.8830		9.76	10.0	-2.4	30.0
1,2-Dichloroethane	Ave	0.3488	0.3895		11.2	10.0	11.7	30.0
n-Heptane	Ave	0.5225	0.5561		10.6	10.0	6.4	30.0
n-Butanol	Ave	0.1830	0.1697		9.27	10.0	-7.3	30.0
Trichloroethene	Ave	0.3662	0.3779		10.3	10.0	3.2	30.0
1,2-Dichloropropane	Ave	0.3462	0.3374		9.74	10.0	-2.6	30.0
Methyl methacrylate	Ave	0.3071	0.3091		10.1	10.0	0.7	30.0
1,4-Dioxane	Ave	0.1732	0.1631		9.41	10.0	-5.9	30.0
Dibromomethane	Ave	0.3527	0.3690		10.5	10.0	4.6	30.0
Bromodichloromethane	Ave	0.6333	0.6572		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4820		10.7	10.0	7.1	30.0
methyl isobutyl ketone	Ave	0.7141	0.7600		10.6	10.0	6.4	30.0
n-Octane	Ave	0.7439	0.8372		11.3	10.0	12.5	30.0
Toluene	Ave	0.6608	0.6744		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4368		10.5	10.0	5.4	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3388		9.87	10.0	-1.3	30.0
Tetrachloroethene	Ave	0.5621	0.6103		10.9	10.0	8.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.7189		10.5	10.0	5.0	30.0
Dibromochloromethane	Ave	0.6880	0.7140		10.4	10.0	3.8	30.0
1,2-Dibromoethane	Ave	0.5692	0.5743		10.1	10.0	0.9	30.0
Chlorobenzene	Ave	0.9016	0.8913		9.88	10.0	-1.1	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7855		10.5	10.0	5.5	30.0
m,p-Xylene	Ave	0.5745	0.6174		21.5	20.0	7.5	30.0
Xylene, o-	Ave	0.5343	0.5767		10.8	10.0	7.9	30.0
Styrene	Ave	0.8197	0.9386		11.4	10.0	14.5	30.0
Bromoform	Ave	0.6868	0.7637		11.1	10.0	11.2	30.0
Cumene	Ave	1.596	1.789		11.2	10.0	12.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9612		10.1	10.0	1.0	30.0
n-Propylbenzene	Ave	1.989	2.220		11.2	10.0	11.6	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.7700		10.2	10.0	2.3	30.0
n-Decane	Ave	1.030	1.102		10.7	10.0	7.0	30.0
4-Ethyltoluene	Ave	1.651	1.880		11.4	10.0	13.9	30.0
2-Chlorotoluene	Ave	1.486	1.595		10.7	10.0	7.4	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.573		11.2	10.0	12.3	30.0
Alpha Methyl Styrene	Ave	0.6494	0.7930		12.2	10.0	22.1	30.0
tert-Butylbenzene	Ave	1.345	1.553		11.5	10.0	15.4	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.609		11.9	10.0	19.5	30.0
sec-Butylbenzene	Ave	2.075	2.450		11.8	10.0	18.1	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.676	2.054		12.3	10.0	22.6	30.0
1,3-Dichlorobenzene	Ave	0.8999	1.107		12.3	10.0	23.0	30.0
1,4-Dichlorobenzene	Ave	0.8585	1.038		12.1	10.0	20.9	30.0
Benzyl chloride	Ave	0.9560	1.232		12.9	10.0	28.9	30.0
n-Butylbenzene	Ave	1.547	1.992		12.9	10.0	28.7	30.0
n-Undecane	Ave	1.005	1.121		11.1	10.0	11.5	30.0
1,2-Dichlorobenzene	Ave	0.8813	1.069		12.1	10.0	21.3	30.0
n-Dodecane	Ave	0.7711	0.8687		11.3	10.0	12.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4757		11.3	10.0	12.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.7648		11.8	10.0	17.7	30.0
Naphthalene	Ave	0.7816	0.8567		11.0	10.0	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.4153		10.9	10.0	8.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.212	1.148		9.47	10.0	-5.3	30.0
Dichlorodifluoromethane	Ave	3.527	3.409		9.66	10.0	-3.3	30.0
Freon 22	Ave	2.210	2.083		9.42	10.0	-5.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.930		11.1	10.0	11.3	30.0
Chloromethane	Ave	1.371	1.247		9.10	10.0	-9.0	30.0
n-Butane	Ave	2.525	2.333		9.23	10.0	-7.6	30.0
Vinyl chloride	Ave	1.453	1.455		10.0	10.0	0.1	30.0
1,3-Butadiene	Ave	1.052	1.141		10.8	10.0	8.4	30.0
Bromomethane	Ave	1.308	1.241		9.49	10.0	-5.1	30.0
Chloroethane	Ave	0.7925	0.7460		9.41	10.0	-5.9	30.0
Isopentane	Ave	1.914	1.771		9.25	10.0	-7.5	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.248		10.5	10.0	5.2	30.0
Trichlorofluoromethane	Ave	3.319	3.241		9.76	10.0	-2.3	30.0
n-Pentane	Ave	2.868	2.707		9.44	10.0	-5.6	30.0
Ethanol	Ave	0.7496	0.6706		13.4	15.0	-10.5	30.0
Ethyl ether	Ave	0.9504	1.052		11.1	10.0	10.7	30.0
Acrolein	Ave	0.4877	0.4028		8.26	10.0	-17.4	30.0
Freon TF	Ave	2.964	2.598		8.76	10.0	-12.4	30.0
1,1-Dichloroethene	Ave	1.220	1.241		10.2	10.0	1.6	30.0
Acetone	Ave	2.178	2.268		10.4	10.0	4.1	30.0
Carbon disulfide	Ave	4.012	3.895		9.71	10.0	-2.9	30.0
Isopropyl alcohol	Ave	2.302	2.176		9.45	10.0	-5.5	30.0
3-Chloropropene	Ave	1.650	1.442		8.74	10.0	-12.6	30.0
Acetonitrile	Ave	0.9381	0.9304		9.92	10.0	-0.8	30.0
Methylene Chloride	Ave	1.736	1.431		8.24	10.0	-17.6	30.0
tert-Butyl alcohol	Ave	2.777	2.868		10.3	10.0	3.3	30.0
Methyl tert-butyl ether	Ave	3.720	3.870		10.4	10.0	4.0	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.945		10.1	10.0	0.7	30.0
Acrylonitrile	Ave	0.8951	0.8856		9.89	10.0	-1.1	30.0
n-Hexane	Ave	2.215	2.270		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	2.620	2.520		9.62	10.0	-3.8	30.0
Vinyl acetate	Ave	3.407	3.266		9.58	10.0	-4.1	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.370		10.7	10.0	7.5	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7253		9.88	10.0	-1.2	30.0
Ethyl acetate	Ave	0.1226	0.1237		10.1	10.0	0.9	30.0
Tetrahydrofuran	Ave	0.3315	0.3294		9.93	10.0	-0.6	30.0
Chloroform	Ave	2.996	2.793		9.32	10.0	-6.8	30.0
Cyclohexane	Ave	0.3636	0.3781		10.4	10.0	4.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.5794		9.52	10.0	-4.8	30.0
Carbon tetrachloride	Ave	0.5924	0.5768		9.74	10.0	-2.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.383	1.405		10.2	10.0	1.6	30.0
Benzene	Ave	0.9048	0.8567		9.47	10.0	-5.3	30.0
1,2-Dichloroethane	Ave	0.3488	0.3497		10.0	10.0	0.3	30.0
n-Heptane	Ave	0.5225	0.5250		10.0	10.0	0.5	30.0
n-Butanol	Ave	0.1830	0.1983		10.8	10.0	8.4	30.0
Trichloroethene	Ave	0.3662	0.3734		10.2	10.0	2.0	30.0
1,2-Dichloropropane	Ave	0.3462	0.3287		9.49	10.0	-5.1	30.0
Methyl methacrylate	Ave	0.3071	0.3191		10.4	10.0	3.9	30.0
1,4-Dioxane	Ave	0.1732	0.1804		10.4	10.0	4.2	30.0
Dibromomethane	Ave	0.3527	0.3560		10.1	10.0	0.9	30.0
Bromodichloromethane	Ave	0.6333	0.6204		9.79	10.0	-2.1	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4532		10.1	10.0	0.7	30.0
methyl isobutyl ketone	Ave	0.7141	0.6782		9.50	10.0	-5.0	30.0
n-Octane	Ave	0.7439	0.7604		10.2	10.0	2.2	30.0
Toluene	Ave	0.6608	0.6839		10.3	10.0	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4457		10.7	10.0	7.5	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3463		10.1	10.0	0.9	30.0
Tetrachloroethene	Ave	0.5621	0.6033		10.7	10.0	7.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.6754		9.86	10.0	-1.3	30.0
Dibromochloromethane	Ave	0.6880	0.6816		9.91	10.0	-0.9	30.0
1,2-Dibromoethane	Ave	0.5692	0.5877		10.3	10.0	3.2	30.0
Chlorobenzene	Ave	0.9016	0.8932		9.91	10.0	-0.9	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7751		10.4	10.0	4.1	30.0
m,p-Xylene	Ave	0.5745	0.6030		21.0	20.0	5.0	30.0
Xylene, o-	Ave	0.5343	0.5846		10.9	10.0	9.4	30.0
Styrene	Ave	0.8197	0.8833		10.8	10.0	7.8	30.0
Bromoform	Ave	0.6868	0.7195		10.5	10.0	4.8	30.0
Cumene	Ave	1.596	1.723		10.8	10.0	8.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9356		9.83	10.0	-1.6	30.0
n-Propylbenzene	Ave	1.989	2.122		10.7	10.0	6.7	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.6999		9.29	10.0	-7.1	30.0
n-Decane	Ave	1.030	1.012		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.651	1.792		10.9	10.0	8.5	30.0
2-Chlorotoluene	Ave	1.486	1.474		9.91	10.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.471		10.5	10.0	5.0	30.0
Alpha Methyl Styrene	Ave	0.6494	0.6932		10.7	10.0	6.7	30.0
tert-Butylbenzene	Ave	1.345	1.424		10.6	10.0	5.9	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.473		10.9	10.0	9.4	30.0
sec-Butylbenzene	Ave	2.075	2.193		10.6	10.0	5.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.676	1.813		10.8	10.0	8.2	30.0
1,3-Dichlorobenzene	Ave	0.8999	0.9868		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.8585	0.9307		10.8	10.0	8.4	30.0
Benzyl chloride	Ave	0.9560	1.006		10.5	10.0	5.2	30.0
n-Butylbenzene	Ave	1.547	1.673		10.8	10.0	8.1	30.0
n-Undecane	Ave	1.005	0.9481		9.43	10.0	-5.7	30.0
1,2-Dichlorobenzene	Ave	0.8813	0.9416		10.7	10.0	6.8	30.0
n-Dodecane	Ave	0.7711	0.6759		8.76	10.0	-12.4	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4337		10.3	10.0	2.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.6609		10.2	10.0	1.7	30.0
Naphthalene	Ave	0.7816	0.7331		9.38	10.0	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.3761		9.86	10.0	-1.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.212	1.380		11.4	10.0	13.9	30.0
Dichlorodifluoromethane	Ave	3.527	3.589		10.2	10.0	1.8	30.0
Freon 22	Ave	2.210	2.313		10.5	10.0	4.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.780		10.7	10.0	7.1	30.0
Chloromethane	Ave	1.371	1.426		10.4	10.0	4.0	30.0
n-Butane	Ave	2.525	2.512		9.95	10.0	-0.5	30.0
Vinyl chloride	Ave	1.453	1.503		10.3	10.0	3.5	30.0
1,3-Butadiene	Ave	1.052	1.186		11.3	10.0	12.7	30.0
Bromomethane	Ave	1.308	1.222		9.34	10.0	-6.6	30.0
Chloroethane	Ave	0.7925	0.7423		9.36	10.0	-6.3	30.0
Isopentane	Ave	1.914	1.878		9.81	10.0	-1.9	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.140		9.61	10.0	-3.9	30.0
Trichlorofluoromethane	Ave	3.319	3.329		10.0	10.0	0.3	30.0
n-Pentane	Ave	2.868	2.814		9.81	10.0	-1.9	30.0
Ethanol	Ave	0.7496	0.9127		18.3	15.0	21.8	30.0
Ethyl ether	Ave	0.9504	0.9343		9.83	10.0	-1.7	30.0
Acrolein	Ave	0.4877	0.4641		9.52	10.0	-4.8	30.0
Freon TF	Ave	2.964	2.896		9.77	10.0	-2.3	30.0
1,1-Dichloroethene	Ave	1.220	1.333		10.9	10.0	9.3	30.0
Acetone	Ave	2.178	2.274		10.4	10.0	4.4	30.0
Carbon disulfide	Ave	4.012	3.814		9.50	10.0	-4.9	30.0
Isopropyl alcohol	Ave	2.302	2.304		10.0	10.0	0.1	30.0
3-Chloropropene	Ave	1.650	1.512		9.17	10.0	-8.3	30.0
Acetonitrile	Ave	0.9381	1.000		10.7	10.0	6.6	30.0
Methylene Chloride	Ave	1.736	1.686		9.71	10.0	-2.9	30.0
tert-Butyl alcohol	Ave	2.777	2.731		9.83	10.0	-1.7	30.0
Methyl tert-butyl ether	Ave	3.720	3.851		10.3	10.0	3.5	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.930		9.99	10.0	-0.0	30.0
Acrylonitrile	Ave	0.8951	0.8810		9.84	10.0	-1.6	30.0
n-Hexane	Ave	2.215	2.240		10.1	10.0	1.1	30.0
1,1-Dichloroethane	Ave	2.620	2.622		10.0	10.0	0.0	30.0
Vinyl acetate	Ave	3.407	3.501		10.3	10.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.363		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7066		9.63	10.0	-3.7	30.0
Ethyl acetate	Ave	0.1226	0.1170		9.54	10.0	-4.5	30.0
Tetrahydrofuran	Ave	0.3315	0.3364		10.1	10.0	1.5	30.0
Chloroform	Ave	2.996	3.004		10.0	10.0	0.2	30.0
Cyclohexane	Ave	0.3636	0.3673		10.1	10.0	1.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.6364		10.5	10.0	4.6	30.0
Carbon tetrachloride	Ave	0.5924	0.6546		11.0	10.0	10.5	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.383	1.422		10.3	10.0	2.8	30.0
Benzene	Ave	0.9048	0.8830		9.76	10.0	-2.4	30.0
1,2-Dichloroethane	Ave	0.3488	0.3895		11.2	10.0	11.7	30.0
n-Heptane	Ave	0.5225	0.5561		10.6	10.0	6.4	30.0
n-Butanol	Ave	0.1830	0.1697		9.27	10.0	-7.3	30.0
Trichloroethene	Ave	0.3662	0.3779		10.3	10.0	3.2	30.0
1,2-Dichloropropane	Ave	0.3462	0.3374		9.74	10.0	-2.6	30.0
Methyl methacrylate	Ave	0.3071	0.3091		10.1	10.0	0.7	30.0
1,4-Dioxane	Ave	0.1732	0.1631		9.41	10.0	-5.9	30.0
Dibromomethane	Ave	0.3527	0.3690		10.5	10.0	4.6	30.0
Bromodichloromethane	Ave	0.6333	0.6572		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4820		10.7	10.0	7.1	30.0
methyl isobutyl ketone	Ave	0.7141	0.7600		10.6	10.0	6.4	30.0
n-Octane	Ave	0.7439	0.8372		11.3	10.0	12.5	30.0
Toluene	Ave	0.6608	0.6744		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4368		10.5	10.0	5.4	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3388		9.87	10.0	-1.3	30.0
Tetrachloroethene	Ave	0.5621	0.6103		10.9	10.0	8.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.7189		10.5	10.0	5.0	30.0
Dibromochloromethane	Ave	0.6880	0.7140		10.4	10.0	3.8	30.0
1,2-Dibromoethane	Ave	0.5692	0.5743		10.1	10.0	0.9	30.0
Chlorobenzene	Ave	0.9016	0.8913		9.88	10.0	-1.1	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7855		10.5	10.0	5.5	30.0
m,p-Xylene	Ave	0.5745	0.6174		21.5	20.0	7.5	30.0
Xylene, o-	Ave	0.5343	0.5767		10.8	10.0	7.9	30.0
Styrene	Ave	0.8197	0.9386		11.4	10.0	14.5	30.0
Bromoform	Ave	0.6868	0.7637		11.1	10.0	11.2	30.0
Cumene	Ave	1.596	1.789		11.2	10.0	12.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9612		10.1	10.0	1.0	30.0
n-Propylbenzene	Ave	1.989	2.220		11.2	10.0	11.6	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.7700		10.2	10.0	2.3	30.0
n-Decane	Ave	1.030	1.102		10.7	10.0	7.0	30.0
4-Ethyltoluene	Ave	1.651	1.880		11.4	10.0	13.9	30.0
2-Chlorotoluene	Ave	1.486	1.595		10.7	10.0	7.4	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.573		11.2	10.0	12.3	30.0
Alpha Methyl Styrene	Ave	0.6494	0.7930		12.2	10.0	22.1	30.0
tert-Butylbenzene	Ave	1.345	1.553		11.5	10.0	15.4	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.609		11.9	10.0	19.5	30.0
sec-Butylbenzene	Ave	2.075	2.450		11.8	10.0	18.1	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.676	2.054		12.3	10.0	22.6	30.0
1,3-Dichlorobenzene	Ave	0.8999	1.107		12.3	10.0	23.0	30.0
1,4-Dichlorobenzene	Ave	0.8585	1.038		12.1	10.0	20.9	30.0
Benzyl chloride	Ave	0.9560	1.232		12.9	10.0	28.9	30.0
n-Butylbenzene	Ave	1.547	1.992		12.9	10.0	28.7	30.0
n-Undecane	Ave	1.005	1.121		11.1	10.0	11.5	30.0
1,2-Dichlorobenzene	Ave	0.8813	1.069		12.1	10.0	21.3	30.0
n-Dodecane	Ave	0.7711	0.8687		11.3	10.0	12.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4757		11.3	10.0	12.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.7648		11.8	10.0	17.7	30.0
Naphthalene	Ave	0.7816	0.8567		11.0	10.0	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.4153		10.9	10.0	8.9	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45174-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 08/15/2018 15:42

Analysis Batch Number: 132926 End Date: 08/16/2018 05:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132926/1		08/15/2018 15:42	1	31797-01.d	RTX-624 0.32 (mm)
VIBLK 200-132926/2		08/15/2018 16:49	1		RTX-624 0.32 (mm)
VIBLK 200-132926/3		08/15/2018 17:45	1		RTX-624 0.32 (mm)
IC 200-132926/4		08/15/2018 18:38	1	31797-04.d	RTX-624 0.32 (mm)
IC 200-132926/5		08/15/2018 19:32	1	31797-05.d	RTX-624 0.32 (mm)
IC 200-132926/6		08/15/2018 20:27	1	31797-06.d	RTX-624 0.32 (mm)
IC 200-132926/7		08/15/2018 21:22	1	31797-07.d	RTX-624 0.32 (mm)
ICIS 200-132926/8		08/15/2018 22:17	1	31797-08.d	RTX-624 0.32 (mm)
IC 200-132926/9		08/15/2018 23:11	1	31797-09.d	RTX-624 0.32 (mm)
IC 200-132926/10		08/16/2018 00:06	1	31797-10.d	RTX-624 0.32 (mm)
IC 200-132926/11		08/16/2018 01:00	1	31797-11.d	RTX-624 0.32 (mm)
VIBLK 200-132926/12		08/16/2018 01:55	1		RTX-624 0.32 (mm)
VIBLK 200-132926/13		08/16/2018 02:49	1		RTX-624 0.32 (mm)
ICV 200-132926/14		08/16/2018 03:44	1	31797-14.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2018 04:39	1		RTX-624 0.32 (mm)
VIBLK 200-132926/16		08/16/2018 05:34	1		RTX-624 0.32 (mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45174-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 09/11/2018 11:38

Analysis Batch Number: 133921 End Date: 09/12/2018 06:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-133921/1		09/11/2018 11:38	1	32143-01.d	RTX-624 0.32 (mm)
CCVIS 200-133921/2		09/11/2018 12:42	1	32143-02.d	RTX-624 0.32 (mm)
LCS 200-133921/3		09/11/2018 13:37	1	32143-03.d	RTX-624 0.32 (mm)
MB 200-133921/4		09/11/2018 14:32	1	32143-04.d	RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 15:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 16:14	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:05	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:57	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 18:50	2		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 19:44	1		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 20:36	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 21:27	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 22:19	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 23:30	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 00:41	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 01:32	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 02:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 03:15	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 04:06	10		RTX-624 0.32 (mm)
200-45174-12		09/12/2018 05:18	0.2	32143-20.d	RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 06:30	0.2		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45175-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 08/15/2018 15:42

Analysis Batch Number: 132926 End Date: 08/16/2018 05:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132926/1		08/15/2018 15:42	1	31797-01.d	RTX-624 0.32 (mm)
VIBLK 200-132926/2		08/15/2018 16:49	1		RTX-624 0.32 (mm)
VIBLK 200-132926/3		08/15/2018 17:45	1		RTX-624 0.32 (mm)
IC 200-132926/4		08/15/2018 18:38	1	31797-04.d	RTX-624 0.32 (mm)
IC 200-132926/5		08/15/2018 19:32	1	31797-05.d	RTX-624 0.32 (mm)
IC 200-132926/6		08/15/2018 20:27	1	31797-06.d	RTX-624 0.32 (mm)
IC 200-132926/7		08/15/2018 21:22	1	31797-07.d	RTX-624 0.32 (mm)
ICIS 200-132926/8		08/15/2018 22:17	1	31797-08.d	RTX-624 0.32 (mm)
IC 200-132926/9		08/15/2018 23:11	1	31797-09.d	RTX-624 0.32 (mm)
IC 200-132926/10		08/16/2018 00:06	1	31797-10.d	RTX-624 0.32 (mm)
IC 200-132926/11		08/16/2018 01:00	1	31797-11.d	RTX-624 0.32 (mm)
VIBLK 200-132926/12		08/16/2018 01:55	1		RTX-624 0.32 (mm)
VIBLK 200-132926/13		08/16/2018 02:49	1		RTX-624 0.32 (mm)
ICV 200-132926/14		08/16/2018 03:44	1	31797-14.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2018 04:39	1		RTX-624 0.32 (mm)
VIBLK 200-132926/16		08/16/2018 05:34	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45175-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 09/11/2018 11:38

Analysis Batch Number: 133921 End Date: 09/12/2018 06:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-133921/1		09/11/2018 11:38	1	32143-01.d	RTX-624 0.32 (mm)
CCVIS 200-133921/2		09/11/2018 12:42	1	32143-02.d	RTX-624 0.32 (mm)
LCS 200-133921/3		09/11/2018 13:37	1	32143-03.d	RTX-624 0.32 (mm)
MB 200-133921/4		09/11/2018 14:32	1	32143-04.d	RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 15:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 16:14	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:05	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:57	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 18:50	2		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 19:44	1		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 20:36	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 21:27	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 22:19	10		RTX-624 0.32 (mm)
200-45175-12		09/11/2018 23:30	0.2	32143-14.d	RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 00:41	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 01:32	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 02:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 03:15	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 04:06	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 05:18	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 06:30	0.2		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**  
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>Toby Scott</u>		Samples Collected By: <u>Karen Tracise / Alex Fjor / Halyn Dorell</u>		COC No: <u>1</u> of <u>1</u> COCs	
Company Name: <u>PBS Engineering</u>		Phone: <u>541-388-9280</u>		Other (Please specify in notes section)		For Lab Use Only:	
Address: <u>390 NE Emerson Blvd Burlington VT 05401</u>		Email: <u>toby.scott@pbsusa.com</u>		Landfill Gas		Walk-in Client:	
City/State/Zip: <u>Burlington VT 05401</u>		Site Contact:		Soil Vapor Extraction (SVE)		Lab Sampling:	
Phone: <u>541-388-9280</u>		Tel/Fax:		Soil Gas		Job / SDG No.:	
FAX:		Analysis Turnaround Time		Sub-Slab		(See below for Add'l Items)	
Project Name: <u>Knott NMOG</u>		Standard (Specific):		Indoor Air/Ambient Air		Sample Specific Notes:	
Site/Location: <u>Burlington, VT</u>		Rush (Specify):		Other (Please specify in notes section)			
P O #				EPA 15/16			
Sample Identification		Sample Date(s)		Time Start		Time Stop	
Canister Vacuum in Field, 'Hg (Start)'		Canister Vacuum in Field, 'Hg (Stop)'		Flow Controller ID		Canister ID	
EPA 25C		EPA 3C		TO-15 SIM		TO-14/15 (Standard / Low Level)	
EPA 25C		EPA 3C		TO-15 SIM		TO-14/15 (Standard / Low Level)	
<u>KTSG-COMP-1</u>	<u>9-24-18</u>	<u>852</u>	<u>1054</u>	<u>-28</u>	<u>-4</u>	<u>6541</u>	<u>5730</u>
<u>KTSG-COMP-2</u>	<u>9-24-18</u>	<u>1154</u>	<u>1319</u>	<u>-27</u>	<u>-6</u>	<u>4704</u>	<u>2659</u>
<u>KTSG-COMP-3</u>	<u>9-24-18</u>	<u>1349</u>	<u>1516</u>	<u>-27</u>	<u>-6</u>	<u>6367</u>	<u>4123</u>
<u>KTSG-COMP-4</u>	<u>9-24-18</u>	<u>1626</u>	<u>9:17</u>	<u>-27</u>	<u>-6</u>	<u>4608</u>	<u>4871</u>
<u>KTSG-COMP-5</u>	<u>9-25-18</u>	<u>938</u>	<u>1108</u>	<u>-27</u>	<u>-6</u>	<u>5824</u>	<u>4136</u>
<u>KTSG-COMP-6</u>	<u>9-25-18</u>	<u>1200</u>	<u>1355</u>	<u>-25</u>	<u>-4</u>	<u>5883</u>	<u>5136</u>
<u>KTSG-COMP-7</u>	<u>9-25-18</u>	<u>1440</u>	<u>1556</u>	<u>-30</u>	<u>-6</u>	<u>4643</u>	<u>2847</u>
<u>KTSG-COMP-8</u>	<u>9-25-18</u>	<u>1655</u>	<u>1759</u>	<u>-28</u>	<u>-7</u>	<u>4623</u>	<u>5979</u>
Temperature (Fahrenheit)		Interior		Ambient			
Pressure (inches of Hg)		Interior		Ambient			
Special Instructions/QC Requirements & Comments:							
2 boxes		Date / Time: <u>9/26/18</u>		Temperature (Fahrenheit)		Ambient	
Samples Shipped by: <u>Red Ex</u>		Date / Time: <u>1500</u>		Pressure (inches of Hg)		Ambient	
Samples Relinquished by: <u>Red Ex</u>		Date / Time: <u>9/26-18</u>		Interior		Ambient	
Relinquished by: <u>Red Ex</u>		Date / Time: <u>1320</u>		Start		Stop	
Shipper Name:		Opened by:		Start		Stop	
Condition:		Samples Received by:		Date / Time: <u>9/26/18</u>		Temperature (Fahrenheit)	
Shipper Name:		Date / Time: <u>1500</u>		Pressure (inches of Hg)		Ambient	
Condition:		Date / Time: <u>1320</u>		Interior		Ambient	
Shipper Name:		Date / Time: <u>9/26/18</u>		Start		Stop	
Condition:		Date / Time: <u>1320</u>		Start		Stop	

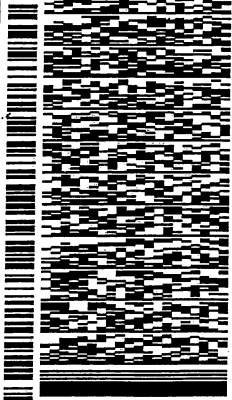
ORIGIN ID:RDMA (541) 388-9290  
BRENDA MOORE  
390 NE EMERSON AVENUE  
201  
BEND, OR 97701  
UNITED STATES US

SHIP DATE: 26SEP18  
ACTWGT: 25.00 LB  
CAD: 7588105/NET 4040  
DIMS: 20x20x17 IN  
BILL SENDER

TO TEST AMERICA VERMONT  
TEST AMERICA  
30 COMMUNITY DR  
STE 11

SOUTH BURLINGTON VT 05403  
REF: LORI ARNOLD 80429.010  
(802) 660-1990  
INV: PO:

DEPT:



552J1F78C/DCAS

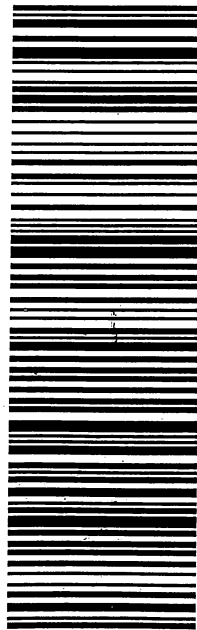
1 of 2

TRK# 7733 3409 3557  
0201  
## MASTER ##

FRI - 28 SEP 4:30P  
\*\* 2DAY \*\*

SK BTVA

05403  
VT-US BTV



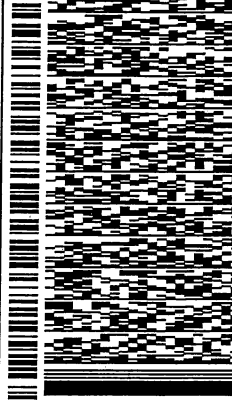
ORIGIN ID:RDMA (541) 388-9290  
BRENDA MOORE  
390 NE EMERSON AVENUE  
201  
BEND, OR 97701  
UNITED STATES US

SHIP DATE: 26SEP18  
ACTWGT: 25.00 LB  
CAD: 7588105/NET 4040  
DIMS: 20x20x17 IN  
BILL SENDER

TO TEST AMERICA VERMONT  
TEST AMERICA  
30 COMMUNITY DR  
STE 11

SOUTH BURLINGTON VT 05403  
REF: LORI ARNOLD 80429.010  
(802) 660-1990  
INV: PO:

DEPT:



552J1F78C/DCAS

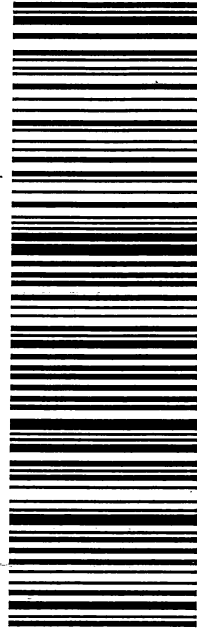
2 of 2

MPS# 7733 3409 3638  
0263  
Mstr# 7733 3409 3557  
0201

FRI - 28 SEP 4:30P  
\*\* 2DAY \*\*

SK BTVA

05403  
VT-US BTV



# Login Sample Receipt Checklist

Client: PBS Engineering and Environmental

Job Number: 200-45482-1

SDG Number: 200-45482-1

**Login Number: 45482**  
**List Number: 1**  
**Creator: Mohn, Taylor J**

**List Source: TestAmerica Burlington**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	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	
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	

## ANALYTICAL REPORT

Job Number: 200-45504-1

SDG Number: 200-45504-1

Job Description: Knott Landfill

For:

PBS Engineering and Environmental  
390 NE Emerson Ave, Ste C  
Bend, OR 97701

Attention: Toby Scott



Approved for release.  
Lori T Arnold  
Manager of Project Management  
11/20/2018 5:01 PM

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11/20/2018  
Revision: 1

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: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

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## Qualifiers

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### Air - GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

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## Glossary

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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: PBS Engineering and Environmental**

**Project: Knott Landfill**

**Report Number: 200-45504-1 Revised**

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.

This submittal was revised to include all of the raw data from the Hutch software system for Method 25C.

### **RECEIPT**

The samples were received on 10/01/2018; the samples arrived in good condition. The flow controllers used with these samples were not received with the air canisters.

During the canister pressure check performed upon receipt of the samples, it was observed that the samples were received at an elevated residual vacuum level. The returned vacuum pressure for the cans are high by 3-4"Hg over the final pressure reading in the field due to the elevation of the sampling site (3600') vs the elevation of the lab (160'). There will be a slight increase in the dilution factor for the pressurization of the cans prior to analysis.

### **NON-METHANE ORGANIC CARBON**

Samples KTSG-COMP-9, KTSG-COMP-10, KTSG-COMP-11, KTSG-COMP-12, KTSG-COMP-13, KTSG-COMP-14, KTSG-COMP-15, KTSG-COMP-16 and KTSG-COMP-17 were analyzed for Non-Methane Organic Carbon in accordance with EPA Method 25C. The samples were analyzed on 10/08/2018 and 10/09/2018.

Samples KTSG-COMP-9[1.9X], KTSG-COMP-10[1.97X], KTSG-COMP-11[1.97X], KTSG-COMP-12[4.97X], KTSG-COMP-13[5.11X], KTSG-COMP-14[5.14X], KTSG-COMP-15[4.69X], KTSG-COMP-16[5.62X] and KTSG-COMP-17[4.8X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

### **FIXED GASES**

Samples KTSG-COMP-9, KTSG-COMP-10, KTSG-COMP-11, KTSG-COMP-12, KTSG-COMP-13, KTSG-COMP-14, KTSG-COMP-15, KTSG-COMP-16 and KTSG-COMP-17 were analyzed for Fixed Gases in accordance with EPA Method 3C. The samples were analyzed on 10/08/2018 and 10/09/2018.

Samples KTSG-COMP-9[1.9X], KTSG-COMP-10[1.97X], KTSG-COMP-11[1.97X], KTSG-COMP-12[4.97X], KTSG-COMP-13[5.11X], KTSG-COMP-14[5.14X], KTSG-COMP-15[4.69X], KTSG-COMP-16[5.62X] and KTSG-COMP-17[4.8X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

# Detection Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-9

## Lab Sample ID: 200-45504-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	940		11	11	ppm-C	1.9		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1100		11	11	ppm-C	1.9		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1000		11	11	ppm-C	1.9		EPA 25C	Total/NA
Carbon dioxide	40		0.095	0.095	% v/v	1.9		EPA 3C	Total/NA
Methane	58		0.076	0.076	% v/v	1.9		EPA 3C	Total/NA
Nitrogen	7.0		0.95	0.95	% v/v	1.9		EPA 3C	Total/NA
Oxygen	1.1		0.095	0.095	% v/v	1.9		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-10

## Lab Sample ID: 200-45504-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	1500		12	12	ppm-C	1.97		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	1600		12	12	ppm-C	1.97		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	1600		12	12	ppm-C	1.97		EPA 25C	Total/NA
Carbon dioxide	42		0.099	0.099	% v/v	1.97		EPA 3C	Total/NA
Methane	63		0.079	0.079	% v/v	1.97		EPA 3C	Total/NA
Nitrogen	2.9		0.99	0.99	% v/v	1.97		EPA 3C	Total/NA
Oxygen	0.24		0.099	0.099	% v/v	1.97		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-11

## Lab Sample ID: 200-45504-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	2100		12	12	ppm-C	1.97		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	2700		12	12	ppm-C	1.97		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	2600		12	12	ppm-C	1.97		EPA 25C	Total/NA
Carbon dioxide	38		0.099	0.099	% v/v	1.97		EPA 3C	Total/NA
Methane	48		0.079	0.079	% v/v	1.97		EPA 3C	Total/NA
Nitrogen	14		0.99	0.99	% v/v	1.97		EPA 3C	Total/NA
Oxygen	3.3		0.099	0.099	% v/v	1.97		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-12

## Lab Sample ID: 200-45504-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	4000		30	30	ppm-C	4.97		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	4700		30	30	ppm-C	4.97		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	4500		30	30	ppm-C	4.97		EPA 25C	Total/NA
Carbon dioxide	45		0.25	0.25	% v/v	4.97		EPA 3C	Total/NA
Methane	56		0.20	0.20	% v/v	4.97		EPA 3C	Total/NA
Nitrogen	7.7		2.5	2.5	% v/v	4.97		EPA 3C	Total/NA
Oxygen	1.5		0.25	0.25	% v/v	4.97		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-13

## Lab Sample ID: 200-45504-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	3500		31	31	ppm-C	5.11		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	3700		31	31	ppm-C	5.11		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	3700		31	31	ppm-C	5.11		EPA 25C	Total/NA
Carbon dioxide	46		0.26	0.26	% v/v	5.11		EPA 3C	Total/NA
Methane	59		0.20	0.20	% v/v	5.11		EPA 3C	Total/NA
Oxygen	0.39		0.26	0.26	% v/v	5.11		EPA 3C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Detection Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-14

## Lab Sample ID: 200-45504-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	4300		31	31	ppm-C	5.14		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	4900		31	31	ppm-C	5.14		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	4900		31	31	ppm-C	5.14		EPA 25C	Total/NA
Carbon dioxide	46		0.26	0.26	% v/v	5.14		EPA 3C	Total/NA
Methane	60		0.21	0.21	% v/v	5.14		EPA 3C	Total/NA
Nitrogen	7.0		2.6	2.6	% v/v	5.14		EPA 3C	Total/NA
Oxygen	1.9		0.26	0.26	% v/v	5.14		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-15

## Lab Sample ID: 200-45504-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	5500		28	28	ppm-C	4.69		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	5900		28	28	ppm-C	4.69		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	5800		28	28	ppm-C	4.69		EPA 25C	Total/NA
Carbon dioxide	49		0.23	0.23	% v/v	4.69		EPA 3C	Total/NA
Methane	57		0.19	0.19	% v/v	4.69		EPA 3C	Total/NA
Nitrogen	3.0		2.3	2.3	% v/v	4.69		EPA 3C	Total/NA
Oxygen	0.29		0.23	0.23	% v/v	4.69		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-16

## Lab Sample ID: 200-45504-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	6700		34	34	ppm-C	5.62		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	7700		34	34	ppm-C	5.62		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	7200		34	34	ppm-C	5.62		EPA 25C	Total/NA
Carbon dioxide	48		0.28	0.28	% v/v	5.62		EPA 3C	Total/NA
Methane	52		0.22	0.22	% v/v	5.62		EPA 3C	Total/NA
Nitrogen	6.9		2.8	2.8	% v/v	5.62		EPA 3C	Total/NA
Oxygen	0.48		0.28	0.28	% v/v	5.62		EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-17

## Lab Sample ID: 200-45504-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
NMOC as Carbon – Uncorrected	7800		29	29	ppm-C	4.8		EPA 25C	Total/NA
NMOC as Carbon - N2 Corrected	9300		29	29	ppm-C	4.8		EPA 25C	Total/NA
NMOC as Carbon - O2 Corrected	8400		29	29	ppm-C	4.8		EPA 25C	Total/NA
Carbon dioxide	47		0.24	0.24	% v/v	4.8		EPA 3C	Total/NA
Methane	48		0.19	0.19	% v/v	4.8		EPA 3C	Total/NA
Nitrogen	9.3		2.4	2.4	% v/v	4.8		EPA 3C	Total/NA
Oxygen	0.67		0.24	0.24	% v/v	4.8		EPA 3C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

# Client Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-9

## Lab Sample ID: 200-45504-1

Date Collected: 09/26/18 10:05

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	940		11	11	ppm-C			10/08/18 20:57	1.9
NMOC as Carbon - N2 Corrected	1100		11	11	ppm-C			10/08/18 20:57	1.9
NMOC as Carbon - O2 Corrected	1000		11	11	ppm-C			10/08/18 20:57	1.9

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	40		0.095	0.095	% v/v			10/08/18 20:41	1.9
Methane	58		0.076	0.076	% v/v			10/08/18 20:41	1.9
Nitrogen	7.0		0.95	0.95	% v/v			10/08/18 20:41	1.9
Oxygen	1.1		0.095	0.095	% v/v			10/08/18 20:41	1.9

## Client Sample ID: KTSG-COMP-10

## Lab Sample ID: 200-45504-2

Date Collected: 09/26/18 11:04

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	1500		12	12	ppm-C			10/08/18 22:01	1.97
NMOC as Carbon - N2 Corrected	1600		12	12	ppm-C			10/08/18 22:01	1.97
NMOC as Carbon - O2 Corrected	1600		12	12	ppm-C			10/08/18 22:01	1.97

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	42		0.099	0.099	% v/v			10/08/18 21:45	1.97
Methane	63		0.079	0.079	% v/v			10/08/18 21:45	1.97
Nitrogen	2.9		0.99	0.99	% v/v			10/08/18 21:45	1.97
Oxygen	0.24		0.099	0.099	% v/v			10/08/18 21:45	1.97

## Client Sample ID: KTSG-COMP-11

## Lab Sample ID: 200-45504-3

Date Collected: 09/26/18 12:15

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	2100		12	12	ppm-C			10/08/18 23:06	1.97
NMOC as Carbon - N2 Corrected	2700		12	12	ppm-C			10/08/18 23:06	1.97
NMOC as Carbon - O2 Corrected	2600		12	12	ppm-C			10/08/18 23:06	1.97

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	38		0.099	0.099	% v/v			10/08/18 22:50	1.97
Methane	48		0.079	0.079	% v/v			10/08/18 22:50	1.97
Nitrogen	14		0.99	0.99	% v/v			10/08/18 22:50	1.97
Oxygen	3.3		0.099	0.099	% v/v			10/08/18 22:50	1.97



# Client Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-12

## Lab Sample ID: 200-45504-4

Date Collected: 09/26/18 14:07

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	4000		30	30	ppm-C			10/09/18 00:11	4.97
NMOC as Carbon - N2 Corrected	4700		30	30	ppm-C			10/09/18 00:11	4.97
NMOC as Carbon - O2 Corrected	4500		30	30	ppm-C			10/09/18 00:11	4.97

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	45		0.25	0.25	% v/v			10/08/18 23:54	4.97
Methane	56		0.20	0.20	% v/v			10/08/18 23:54	4.97
Nitrogen	7.7		2.5	2.5	% v/v			10/08/18 23:54	4.97
Oxygen	1.5		0.25	0.25	% v/v			10/08/18 23:54	4.97

## Client Sample ID: KTSG-COMP-13

## Lab Sample ID: 200-45504-5

Date Collected: 09/26/18 15:09

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	3500		31	31	ppm-C			10/09/18 01:19	5.11
NMOC as Carbon - N2 Corrected	3700		31	31	ppm-C			10/09/18 01:19	5.11
NMOC as Carbon - O2 Corrected	3700		31	31	ppm-C			10/09/18 01:19	5.11

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	46		0.26	0.26	% v/v			10/09/18 01:02	5.11
Methane	59		0.20	0.20	% v/v			10/09/18 01:02	5.11
Nitrogen	2.6	U	2.6	2.6	% v/v			10/09/18 01:02	5.11
Oxygen	0.39		0.26	0.26	% v/v			10/09/18 01:02	5.11

## Client Sample ID: KTSG-COMP-14

## Lab Sample ID: 200-45504-6

Date Collected: 09/27/18 09:12

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	4300		31	31	ppm-C			10/09/18 02:25	5.14
NMOC as Carbon - N2 Corrected	4900		31	31	ppm-C			10/09/18 02:25	5.14
NMOC as Carbon - O2 Corrected	4900		31	31	ppm-C			10/09/18 02:25	5.14

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	46		0.26	0.26	% v/v			10/09/18 02:09	5.14
Methane	60		0.21	0.21	% v/v			10/09/18 02:09	5.14
Nitrogen	7.0		2.6	2.6	% v/v			10/09/18 02:09	5.14
Oxygen	1.9		0.26	0.26	% v/v			10/09/18 02:09	5.14

# Client Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-15

## Lab Sample ID: 200-45504-7

Date Collected: 09/27/18 10:36

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	5500		28	28	ppm-C			10/09/18 03:29	4.69
NMOC as Carbon - N2 Corrected	5900		28	28	ppm-C			10/09/18 03:29	4.69
NMOC as Carbon - O2 Corrected	5800		28	28	ppm-C			10/09/18 03:29	4.69

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	49		0.23	0.23	% v/v			10/09/18 03:13	4.69
Methane	57		0.19	0.19	% v/v			10/09/18 03:13	4.69
Nitrogen	3.0		2.3	2.3	% v/v			10/09/18 03:13	4.69
Oxygen	0.29		0.23	0.23	% v/v			10/09/18 03:13	4.69

## Client Sample ID: KTSG-COMP-16

## Lab Sample ID: 200-45504-8

Date Collected: 09/27/18 11:50

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	6700		34	34	ppm-C			10/09/18 04:33	5.62
NMOC as Carbon - N2 Corrected	7700		34	34	ppm-C			10/09/18 04:33	5.62
NMOC as Carbon - O2 Corrected	7200		34	34	ppm-C			10/09/18 04:33	5.62

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	48		0.28	0.28	% v/v			10/09/18 04:17	5.62
Methane	52		0.22	0.22	% v/v			10/09/18 04:17	5.62
Nitrogen	6.9		2.8	2.8	% v/v			10/09/18 04:17	5.62
Oxygen	0.48		0.28	0.28	% v/v			10/09/18 04:17	5.62

## Client Sample ID: KTSG-COMP-17

## Lab Sample ID: 200-45504-9

Date Collected: 09/27/18 13:06

Matrix: Air

Date Received: 10/01/18 09:00

Sample Container: Summa Canister 6L

### Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	7800		29	29	ppm-C			10/09/18 05:38	4.8
NMOC as Carbon - N2 Corrected	9300		29	29	ppm-C			10/09/18 05:38	4.8
NMOC as Carbon - O2 Corrected	8400		29	29	ppm-C			10/09/18 05:38	4.8

### Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	47		0.24	0.24	% v/v			10/09/18 05:22	4.8
Methane	48		0.19	0.19	% v/v			10/09/18 05:22	4.8
Nitrogen	9.3		2.4	2.4	% v/v			10/09/18 05:22	4.8
Oxygen	0.67		0.24	0.24	% v/v			10/09/18 05:22	4.8

# Action Limit Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-9

## Lab Sample ID: 200-45504-1

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	7.0		% v/v	20.000	0.95	EPA 3C	Total/NA
Oxygen	1.1		% v/v	5.0000	0.095	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-10

## Lab Sample ID: 200-45504-2

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	2.9		% v/v	20.000	0.99	EPA 3C	Total/NA
Oxygen	0.24		% v/v	5.0000	0.099	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-11

## Lab Sample ID: 200-45504-3

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	14		% v/v	20.000	0.99	EPA 3C	Total/NA
Oxygen	3.3		% v/v	5.0000	0.099	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-12

## Lab Sample ID: 200-45504-4

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	7.7		% v/v	20.000	2.5	EPA 3C	Total/NA
Oxygen	1.5		% v/v	5.0000	0.25	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-13

## Lab Sample ID: 200-45504-5

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	2.6	U	% v/v	20.000	2.6	EPA 3C	Total/NA
Oxygen	0.39		% v/v	5.0000	0.26	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-14

## Lab Sample ID: 200-45504-6

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	7.0		% v/v	20.000	2.6	EPA 3C	Total/NA
Oxygen	1.9		% v/v	5.0000	0.26	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-15

## Lab Sample ID: 200-45504-7

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	3.0		% v/v	20.000	2.3	EPA 3C	Total/NA

# Action Limit Summary

Client: PBS Engineering and Environmental  
 Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
 SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-15 (Continued)

## Lab Sample ID: 200-45504-7

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Oxygen	0.29		% v/v	5.0000	0.23	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-16

## Lab Sample ID: 200-45504-8

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	6.9		% v/v	20.000	2.8	EPA 3C	Total/NA
Oxygen	0.48		% v/v	5.0000	0.28	EPA 3C	Total/NA

## Client Sample ID: KTSG-COMP-17

## Lab Sample ID: 200-45504-9

### 3C O2/N2

Analyte	Result	Qualifier	Unit	High Reg Limit	RL	Method	Prep Type
Nitrogen	9.3		% v/v	20.000	2.4	EPA 3C	Total/NA
Oxygen	0.67		% v/v	5.0000	0.24	EPA 3C	Total/NA

# Default Detection Limits

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

Analyte	RL	MDL	Units	Method
NMOC as Carbon - N2 Corrected	6.0	6.0	ppm-C	EPA 25C
NMOC as Carbon - O2 Corrected	6.0	6.0	ppm-C	EPA 25C
NMOC as Carbon - Uncorrected	6.0	6.0	ppm-C	EPA 25C

## Method: EPA 3C - Fixed Gases from Stationary Sources

Analyte	RL	MDL	Units	Method
Carbon dioxide	0.050	0.050	% v/v	EPA 3C
Methane	0.040	0.040	% v/v	EPA 3C
Nitrogen	0.50	0.50	% v/v	EPA 3C
Oxygen	0.050	0.050	% v/v	EPA 3C

# QC Sample Results

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Method: EPA 25C - Nonmethane Organic Compounds (NMOC)

**Lab Sample ID: MB 200-135246/3**  
**Matrix: Air**  
**Analysis Batch: 135246**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
NMOC as Carbon – Uncorrected	6.0	U	6.0	6.0	ppm-C			10/08/18 18:00	1

**Lab Sample ID: LCS 200-135246/2**  
**Matrix: Air**  
**Analysis Batch: 135246**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
NMOC as Carbon – Uncorrected	750	720		ppm-C		96	70 - 130

## Method: EPA 3C - Fixed Gases from Stationary Sources

**Lab Sample ID: MB 200-135231/3**  
**Matrix: Air**  
**Analysis Batch: 135231**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon dioxide	0.050	U	0.050	0.050	% v/v			10/08/18 18:00	1
Methane	0.040	U	0.040	0.040	% v/v			10/08/18 18:00	1
Nitrogen	0.50	U	0.50	0.50	% v/v			10/08/18 18:00	1
Oxygen	0.050	U	0.050	0.050	% v/v			10/08/18 18:00	1

**Lab Sample ID: LCS 200-135231/2**  
**Matrix: Air**  
**Analysis Batch: 135231**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon dioxide	5.00	5.28		% v/v		106	70 - 130
Methane	4.00	3.95		% v/v		99	70 - 130
Nitrogen	5.00	4.73		% v/v		95	70 - 130
Oxygen	2.50	2.30		% v/v		92	70 - 130

# QC Association Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Air - GC VOA

### Analysis Batch: 135231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-45504-1	KTSG-COMP-9	Total/NA	Air	EPA 3C	
200-45504-2	KTSG-COMP-10	Total/NA	Air	EPA 3C	
200-45504-3	KTSG-COMP-11	Total/NA	Air	EPA 3C	
200-45504-4	KTSG-COMP-12	Total/NA	Air	EPA 3C	
200-45504-5	KTSG-COMP-13	Total/NA	Air	EPA 3C	
200-45504-6	KTSG-COMP-14	Total/NA	Air	EPA 3C	
200-45504-7	KTSG-COMP-15	Total/NA	Air	EPA 3C	
200-45504-8	KTSG-COMP-16	Total/NA	Air	EPA 3C	
200-45504-9	KTSG-COMP-17	Total/NA	Air	EPA 3C	
MB 200-135231/3	Method Blank	Total/NA	Air	EPA 3C	
LCS 200-135231/2	Lab Control Sample	Total/NA	Air	EPA 3C	

### Analysis Batch: 135246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-45504-1	KTSG-COMP-9	Total/NA	Air	EPA 25C	
200-45504-2	KTSG-COMP-10	Total/NA	Air	EPA 25C	
200-45504-3	KTSG-COMP-11	Total/NA	Air	EPA 25C	
200-45504-4	KTSG-COMP-12	Total/NA	Air	EPA 25C	
200-45504-5	KTSG-COMP-13	Total/NA	Air	EPA 25C	
200-45504-6	KTSG-COMP-14	Total/NA	Air	EPA 25C	
200-45504-7	KTSG-COMP-15	Total/NA	Air	EPA 25C	
200-45504-8	KTSG-COMP-16	Total/NA	Air	EPA 25C	
200-45504-9	KTSG-COMP-17	Total/NA	Air	EPA 25C	
MB 200-135246/3	Method Blank	Total/NA	Air	EPA 25C	
LCS 200-135246/2	Lab Control Sample	Total/NA	Air	EPA 25C	

# Lab Chronicle

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-9

Date Collected: 09/26/18 10:05  
Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.9	135246	10/08/18 20:57	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.9	135231	10/08/18 20:41	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-10

Date Collected: 09/26/18 11:04  
Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.97	135246	10/08/18 22:01	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.97	135231	10/08/18 21:45	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-11

Date Collected: 09/26/18 12:15  
Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		1.97	135246	10/08/18 23:06	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		1.97	135231	10/08/18 22:50	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-12

Date Collected: 09/26/18 14:07  
Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		4.97	135246	10/09/18 00:11	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		4.97	135231	10/08/18 23:54	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-13

Date Collected: 09/26/18 15:09  
Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		5.11	135246	10/09/18 01:19	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		5.11	135231	10/09/18 01:02	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-14

Date Collected: 09/27/18 09:12  
Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		5.14	135246	10/09/18 02:25	WRD	TAL BUR



# Lab Chronicle

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Client Sample ID: KTSG-COMP-14

Date Collected: 09/27/18 09:12

Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 3C		5.14	135231	10/09/18 02:09	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-15

Date Collected: 09/27/18 10:36

Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		4.69	135246	10/09/18 03:29	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		4.69	135231	10/09/18 03:13	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-16

Date Collected: 09/27/18 11:50

Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		5.62	135246	10/09/18 04:33	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		5.62	135231	10/09/18 04:17	WRD	TAL BUR

## Client Sample ID: KTSG-COMP-17

Date Collected: 09/27/18 13:06

Date Received: 10/01/18 09:00

## Lab Sample ID: 200-45504-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	EPA 25C		4.8	135246	10/09/18 05:38	WRD	TAL BUR
Total/NA	Analysis	EPA 3C		4.8	135231	10/09/18 05:22	WRD	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: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

## Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-19
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Hampshire	NELAP	1	2006	12-18-18 *
New Jersey	NELAP	2	VT972	06-30-19
New York	NELAP	2	10391	04-01-19
Pennsylvania	NELAP	3	68-00489	04-30-19
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-19
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
EPA 25C	Nonmethane Organic Compounds (NMOC)	EPA	TAL BUR
EPA 3C	Fixed Gases from Stationary Sources	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: PBS Engineering and Environmental  
Project/Site: Knott Landfill

TestAmerica Job ID: 200-45504-1  
SDG: 200-45504-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-45504-1	KTSG-COMP-9	Air	09/26/18 10:05	10/01/18 09:00
200-45504-2	KTSG-COMP-10	Air	09/26/18 11:04	10/01/18 09:00
200-45504-3	KTSG-COMP-11	Air	09/26/18 12:15	10/01/18 09:00
200-45504-4	KTSG-COMP-12	Air	09/26/18 14:07	10/01/18 09:00
200-45504-5	KTSG-COMP-13	Air	09/26/18 15:09	10/01/18 09:00
200-45504-6	KTSG-COMP-14	Air	09/27/18 09:12	10/01/18 09:00
200-45504-7	KTSG-COMP-15	Air	09/27/18 10:36	10/01/18 09:00
200-45504-8	KTSG-COMP-16	Air	09/27/18 11:50	10/01/18 09:00
200-45504-9	KTSG-COMP-17	Air	09/27/18 13:06	10/01/18 09:00

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 83144

Lab Sample ID: IC 200-83144/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/08/15 12:02 Lab File ID: 25cic1\_01082015001.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.88	Baseline Event	lyonsb	01/08/15 12:40

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135246

Lab Sample ID: MB 200-135246/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/08/18 18:00 Lab File ID: mb20181008a.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	10.24	Baseline Smoothing	desjardin sb	10/15/18 13:25

Lab Sample ID: 200-45504-1 Client Sample ID: KTSG-COMP-9

Date Analyzed: 10/08/18 20:57 Lab File ID: 200-45504-a-1f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	10.04	Baseline Smoothing	desjardin sb	10/15/18 13:28

Lab Sample ID: 200-45504-3 Client Sample ID: KTSG-COMP-11

Date Analyzed: 10/08/18 23:06 Lab File ID: 200-45504-a-3f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.88	Baseline Smoothing	desjardin sb	10/15/18 13:37

Lab Sample ID: 200-45504-4 Client Sample ID: KTSG-COMP-12

Date Analyzed: 10/09/18 00:11 Lab File ID: 200-45504-a-4f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.94	Baseline Smoothing	desjardin sb	10/15/18 13:38

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135246

Lab Sample ID: 200-45504-5 Client Sample ID: KTSG-COMP-13

Date Analyzed: 10/09/18 01:19 Lab File ID: 200-45504-a-5f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.93	Baseline Smoothing	desjardin sb	10/15/18 13:39

Lab Sample ID: 200-45504-6 Client Sample ID: KTSG-COMP-14

Date Analyzed: 10/09/18 02:25 Lab File ID: 200-45504-a-6f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.86	Baseline Smoothing	desjardin sb	10/15/18 13:41

Lab Sample ID: 200-45504-7 Client Sample ID: KTSG-COMP-15

Date Analyzed: 10/09/18 03:29 Lab File ID: 200-45504-a-7f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.99	Baseline Smoothing	desjardin sb	10/15/18 13:42

Lab Sample ID: 200-45504-8 Client Sample ID: KTSG-COMP-16

Date Analyzed: 10/09/18 04:33 Lab File ID: 200-45504-a-8f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.93	Baseline Smoothing	desjardin sb	10/15/18 13:43

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135246

Lab Sample ID: 200-45504-9 Client Sample ID: KTSG-COMP-17

Date Analyzed: 10/09/18 05:38 Lab File ID: 200-45504-a-9f.d-avg GC Column: Carbo/Unibead ID: 2 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NMOC as Carbon - Uncorrected	9.84	Baseline Smoothing	desjardin sb	10/15/18 13:44



AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 92935

Lab Sample ID: IC 200-92935/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 10:20 Lab File ID: ic-02001.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	4.55	Baseline Smoothing	daiglep	08/17/15 14:16
Nitrogen	5.65	Baseline Smoothing	daiglep	08/17/15 14:16
Methane	7.86	Baseline Smoothing	daiglep	08/17/15 14:16
Carbon monoxide	8.51	Baseline Smoothing	daiglep	08/17/15 14:16

Lab Sample ID: IC 200-92935/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 11:34 Lab File ID: ic-03002.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.00	Baseline Smoothing	desjardin sb	08/18/15 11:48
Carbon monoxide	8.55	Baseline Smoothing	desjardin sb	08/18/15 11:48

Lab Sample ID: ICIS 200-92935/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 12:09 Lab File ID: icis-04001.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.20	Baseline Smoothing	daiglep	08/17/15 14:09
Carbon monoxide	8.56	Baseline Smoothing	daiglep	08/17/15 14:09

Lab Sample ID: IC 200-92935/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 13:16 Lab File ID: co cal1002.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon monoxide	8.56	Baseline Smoothing	desjardin sb	08/18/15 09:24

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 92935

Lab Sample ID: ICV 200-92935/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/17/15 18:25 Lab File ID: icv002.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.17	Baseline Smoothing	desjardin sb	08/18/15 09:49
Carbon monoxide	8.54	Baseline Smoothing	desjardin sb	08/18/15 09:49

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135231

Lab Sample ID: CCV 200-135231/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/08/18 12:15 Lab File ID: 3cccv20181008a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	8.01	Split Peak	desjardin sb	10/13/18 16:18
Carbon monoxide	8.25	Split Peak	desjardin sb	10/13/18 16:18

Lab Sample ID: LCS 200-135231/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/08/18 13:20 Lab File ID: 3clcs20181008a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.83	Split Peak	desjardin sb	10/13/18 16:21

Lab Sample ID: MB 200-135231/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/08/18 18:00 Lab File ID: mb20181008a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon dioxide		Invalid Compound ID	desjardin sb	10/13/18 16:22

Lab Sample ID: 200-45504-1 Client Sample ID: KTSG-COMP-9

Date Analyzed: 10/08/18 20:41 Lab File ID: 200-45504-a-1e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.62	Peak assignment corrected	desjardin sb	10/13/18 16:23

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135231

Lab Sample ID: 200-45504-2 Client Sample ID: KTSG-COMP-10

Date Analyzed: 10/08/18 21:45 Lab File ID: 200-45504-a-2e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.75	Peak assignment corrected	desjardin sb	10/13/18 16:24

Lab Sample ID: 200-45504-3 Client Sample ID: KTSG-COMP-11

Date Analyzed: 10/08/18 22:50 Lab File ID: 200-45504-a-3e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.64	Peak assignment corrected	desjardin sb	10/13/18 16:24

Lab Sample ID: 200-45504-4 Client Sample ID: KTSG-COMP-12

Date Analyzed: 10/08/18 23:54 Lab File ID: 200-45504-a-4e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.78	Peak assignment corrected	desjardin sb	10/13/18 16:25

Lab Sample ID: 200-45504-5 Client Sample ID: KTSG-COMP-13

Date Analyzed: 10/09/18 01:02 Lab File ID: 200-45504-a-5e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Nitrogen	5.55	Split Peak	desjardin sb	10/15/18 11:36
Methane	7.69	Split Peak	desjardin sb	10/15/18 11:36

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135231

Lab Sample ID: 200-45504-6 Client Sample ID: KTSG-COMP-14

Date Analyzed: 10/09/18 02:09 Lab File ID: 200-45504-a-6e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.79	Peak assignment corrected	desjardin sb	10/13/18 16:26

Lab Sample ID: 200-45504-7 Client Sample ID: KTSG-COMP-15

Date Analyzed: 10/09/18 03:13 Lab File ID: 200-45504-a-7e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	4.49	Baseline Smoothing	desjardin sb	10/15/18 12:01
Nitrogen	5.52	Split Peak	desjardin sb	10/15/18 12:01
Methane	7.68	Split Peak	desjardin sb	10/15/18 12:01

Lab Sample ID: 200-45504-8 Client Sample ID: KTSG-COMP-16

Date Analyzed: 10/09/18 04:17 Lab File ID: 200-45504-a-8e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	4.53	Split Peak	desjardin sb	10/15/18 12:05
Nitrogen	5.60	Split Peak	desjardin sb	10/15/18 12:05
Methane	7.80	Split Peak	desjardin sb	10/15/18 12:05

AIR - GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Analysis Batch Number: 135231

Lab Sample ID: 200-45504-9 Client Sample ID: KTSG-COMP-17

Date Analyzed: 10/09/18 05:22 Lab File ID: 200-45504-a-9e.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.68	Peak assignment corrected	desjardin sb	10/13/18 16:27

Lab Sample ID: CCVC 200-135231/18 Client Sample ID: \_\_\_\_\_

Date Analyzed: 10/09/18 13:19 Lab File ID: 3ccvc20181009a.d-avg GC Column: CTR-1 ID: 3.175 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	7.93	Split Peak	desjardin sb	10/13/18 16:29
Carbon monoxide	8.13	Split Peak	desjardin sb	10/13/18 16:29

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-45504-1

SDG No.: 200-45504-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>AT3CCAL1i_00014</b>	11/17/15	08/17/15	helium, Lot n/a	10 L	AT3CCCVs_00059	100 mL	Carbon dioxide	0.05 % v/v
							Methane	0.04 % v/v
							Oxygen	0.05 % v/v
.AT3CCCVs_00059	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Oxygen	5 % v/v
<b>AT3CCAL2i_00012</b>	11/17/15	08/17/15	helium, Lot n/a	2 L	AT3CCCVs_00059	200 mL	Carbon dioxide	0.5 % v/v
							Carbon monoxide	0.5 % v/v
							Methane	0.4 % v/v
							Nitrogen	0.5 % v/v
							Oxygen	0.5 % v/v
.AT3CCCVs_00059	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Carbon monoxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CCAL3i_00012</b>	11/17/15	08/17/15	helium, Lot n/a	2 L	AT3CCCVs_00059	1000 mL	Carbon dioxide	2.5 % v/v
							Carbon monoxide	2.5 % v/v
							Methane	2 % v/v
							Nitrogen	2.5 % v/v
							Oxygen	2.5 % v/v
.AT3CCCVs_00059	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Carbon monoxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CCCVs_00060</b>	06/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Carbon monoxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CCCVs_00066</b>	06/07/21	Air Gas/ Scott, Lot 160-401215822-1			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	2.5 % v/v
<b>AT3CCOCa10.1%_00005</b>	11/17/15	08/17/15	Helium, Lot NA	10 L	AT3CCOs_00004	100 mL	Carbon monoxide	0.1 % v/v
.AT3CCOs_00004	11/24/15	Matheson, Lot 109-44-10691-A1			(Purchased Reagent)		Carbon monoxide	10 % v/v
							Carbon monoxide	10 % v/v
<b>AT3CLCs_00003</b>	01/15/16	AirLiquide/Scotty, Lot 012PLU5SPC02L			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v
							Oxygen	5 % v/v
<b>AT3CLCs_00008</b>	06/07/21	Airgas / Scott, Lot 160-401215822			(Purchased Reagent)		Carbon dioxide	5 % v/v
							Methane	4 % v/v
							Nitrogen	5 % v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Burlington

Job No.: 200-45504-1

SDG No.: 200-45504-1

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Oxygen	2.5 % v/v
<b>AT3Czeroair_00007</b>	01/05/16		Air Gas, Lot 114-400462784-1		(Purchased Reagent)		Nitrogen	78 % v/v
							Oxygen	22 % v/v
<b>ATnitrogens_00008</b>	11/18/15		TA, Lot n/a		(Purchased Reagent)		Nitrogen	100 % v/v
<b>ATNMOCCAL1w_00020</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	12.5 L	ATNMOCCCVw_00037	100 mL	NMOC as Carbon - Uncorrected	6 ppm-C
.ATNMOCCCVw_00037	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	16 L	ATNMOCCALs_00011	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
..ATNMOCCALs_00011	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCCAL3w_00018</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	12.383 L	ATNMOCCALs_00011	743 mL	NMOC as Carbon - Uncorrected	1800.05 ppm-C
.ATNMOCCALs_00011	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCCCVw_00037</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	16 L	ATNMOCCALs_00011	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCCALs_00011	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCCCVw_00055</b>	10/23/18	07/23/18	Nitrogen, Lot 1	16 L	ATNMOCCALs_00015	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCCALs_00015	06/14/19		Airgas, Lot GBH-176N-1-2		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCLCSw_00045</b>	04/07/15	01/07/15	Zero Air, Lot ATZEROAIRs 00010	16 L	ATNMOCLCSs_00007	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCLCSs_00007	10/30/15		Air Liquide/ Scottgas, Lot 153PLU4SPC01D		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C
<b>ATNMOCLCSw_00061</b>	10/23/18	07/23/18	Nitrogen, Lot 1	16 L	ATNMOCLCSs_00008	400 mL	NMOC as Carbon - Uncorrected	750 ppm-C
.ATNMOCLCSs_00008	11/10/18		Air Liquide/ Scottgas, Lot 403-179118		(Purchased Reagent)		NMOC as Carbon - Uncorrected	30000 ppm-C



Reagent

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**AT3CCCVs\_00059**



Reagent

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**AT3CCCVs\_00060**



Reagent

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**AT3CCCVs\_00066**

1163388  
ID: AT3CCCVs\_00066  
Exp:06/07/21 Prpd:WRD Opr:06/14/18  
5%CO2,CO,N2 & 4%CH4,H2 &

# CERTIFICATE OF BATCH ANALYSIS

## Grade of Product: CERTIFIED STANDARD-SPEC

Customer:	TESTAMERICA BURLINGTON	Reference Number:	160-401215822-1
Part Number:	X07HE74CP14C000	Cylinder Volume:	0.5 LG
Cylinder Analyzed:	ST0000183253	Cylinder Pressure:	240 PSIG
Laboratory:	124 - Plumsteadville - PA	Valve Outlet:	160
Analysis Date:	Jun 07, 2018		
Lot Number:	160-401215822-1		
<b>Expiration Date: Jun 07, 2021</b>			

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

### ANALYTICAL RESULTS

Component	Req Conc	Actual Concentration (Mole %)	Analytical Uncertainty
OXYGEN	2.500 %	2.557 %	+/- 2%
HYDROGEN	4.000 %	4.012 %	+/- 2%
METHANE	4.000 %	4.001 %	+/- 2%
CARBON DIOXIDE	5.000 %	5.038 %	+/- 2%
CARBON MONOXIDE	5.000 %	5.011 %	+/- 2%
NITROGEN	5.000 %	5.014 %	+/- 2%
HELIUM	Balance		

Permanent Notes:RESTEK P/N 34543

Cylinders in Batch:

ST0000183253, ST0000183254



*Paul P.*  
\_\_\_\_\_  
Approved for Release

Reagent

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**AT3CLCSs\_00003**



Air Liquide America  
Specialty Gases LLC



Shipped From: 6141 EASTON ROAD, BLDG 1 PLUMSTEADVILLE PA 18949-0310  
 Phone: 800-331-4953 Fax: 215-766-7226  
 PO BOX 310

C E R T I F I C A T E O F A N A L Y S I S

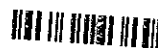
TESTAMERICA BURLINGTON  
 BEN LYONS-PO#2595318  
 30 COMMUNITY DR, SUITE 11  
 SOUTH BURLINGTON VT 05403  
 US

DOCUMENT#: 58455812 -001  
 PO#: 98916  
 ITEM #: T234-14  
 CUST ITEM #: 34512  
 DATE: 12Jan2015

ANALYTICAL ACCURACY: +/-2%  
 PRODUCT EXPIRATION: 12Jan2018

LOT # : 012PLU5SPC02L

COMPONENT	REQUESTED GAS		ANALYSIS	
	CONC MOLES		(MOLES)	
CARBON DIOXIDE	5.	%	5.0	%
CARBON MONOXIDE	5.	%	5.0	%
HYDROGEN	4.	%	4.0	%
METHANE	4.	%	4.0	%
NITROGEN	5.	%	5.0	%
OXYGEN	5.	%	5.0	%
HELIUM		BALANCE		BALANCE



757389

ID: AT3CLCSs\_00003

Exp: 01/15/16 Ppfd BPL Opc: 01/15/15

5%CO2, CO, N2, O2, 4%CH4, H2

*BL*  
*1/15/15*

P/N 34512

MANUFACTURED DATE: 12Jan2015

SCOTTY SIZE: 14

APPROVED BY:

*[Signature]*  
DAN TRAVISANO



Reagent

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**AT3CLCSs\_00008**

ST0# 1187558

# CERTIFICATE OF BATCH ANALYSIS

## Grade of Product: CERTIFIED STANDARD-SPEC

Customer:	TESTAMERICA BURLINGTON	Reference Number:	160-401215822-1
Part Number:	X07HE74CP14C000	Cylinder Volume:	0.5 LG
Cylinder Analyzed:	ST0000183253	Cylinder Pressure:	240 PSIG
Laboratory:	124 - Plumsteadville - PA	Valve Outlet:	160
Analysis Date:	Jun 07, 2018		
Lot Number:	160-401215822-1		

**Expiration Date: Jun 07, 2021**

Product composition verified by direct comparison to calibration standards traceable to N.I.S.T. weights and/or N.I.S.T. Gas Mixture reference materials.

### ANALYTICAL RESULTS

Component	Req Conc	Actual Concentration (Mole %)	Analytical Uncertainty
OXYGEN	2.500 %	2.557 %	+/- 2%
HYDROGEN	4.000 %	4.012 %	+/- 2%
METHANE	4.000 %	4.001 %	+/- 2%
CARBON DIOXIDE	5.000 %	5.038 %	+/- 2%
CARBON MONOXIDE	5.000 %	5.011 %	+/- 2%
NITROGEN	5.000 %	5.014 %	+/- 2%
HELIUM	Balance		

Permanent Notes: RESTEK P/N 34543

Cylinders in Batch:

ST0000183253, ST0000183254



*Paul P.*

Approved for Release

Reagent

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**ATNMOCCALs\_00011**



Air Liquide America  
Specialty Gases LLC



Shipped From: 6141 EASTON ROAD, BLDG 1  
PLUMSTEADVILLE PA 18949-0310  
Phone: 800-331-4953  
Fax: 215-766-7226  
PO BOX 310

CERTIFICATE OF ANALYSIS

TESTAMERICA  
30 COMMUNITY DRIVE  
SOUTH BURLINGTON VT 05403  
US

DOCUMENT#: 55543259 -001  
PO#: 2566053  
ITEM #: T4448-17  
DATE: 03Jun2014

ANALYTICAL ACCURACY: +/-5%  
PRODUCT EXPIRATION: 03Jun2017

LOT # : 153PLU4SPC01D

COMPONENT	REQUESTED GAS	ANALYSIS
	CONC MOLES	(MOLES)
PROPANE	1.0 %	1.0 %
NITROGEN	BALANCE	BALANCE



725264  
ID: ATNMOCCALs\_00011  
Exp. 10/30/15 Prod BPL Opn. 10/30/14  
Propane 1% NMOC

*BL*  
*10/30/2014*



725265  
ID: ATNMOCLCSs\_00007  
Exp. 10/30/15 Prod BPL Opn. 10/30/14  
Propane 1% NMOC

MANUFACTURED DATE: 03Jun2014

SCOTTY SIZE: 17

APPROVED BY: *Lynn Matonis*  
LYNN MATONIS

Reagent

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**ATNMOCCALs\_00015**



ATMOCALS - 0044  
15  
~~105425~~  
1176932

## CERTIFICATE OF ANALYSIS

<b>Customer:</b>	Airgas Specialty Gases	<b>Cylinder Size:</b>	0.6 Cu. Ft.
<b>PO Number:</b>	5800072123	<b>Cylinder Volume:</b>	17 Liter
<b>Part Number:</b>	X02NI99CP170047/ 17L-176N-1	<b>Cylinder Pressure:</b>	240 psig
<b>Lot Number:</b>	GBH-176N-1-2	<b>Valve Outlet:</b>	CGA 600
<b>Analysis Date:</b>	06/13/2017	<b>Blend Tolerance:</b>	+/-5%

Use Before: 06/14/2021


### ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration (Mole %)	Analytical Uncertainty
Propane	1.0% vol.	1.01% vol.	+/- 2 %
Nitrogen	Balance		

NIST Weight Certificate Number(s): 000521

The calibration gas prepared by Airgas is considered a certified standard. It is prepared by gravimetric, or partial pressure techniques. The calibration standard provided is prepared by weights traceable to the National Institute of Standards and Technology (NIST) or by using NIST Standard Reference Materials where available.

**Analyst:**

  
Andrew Sullivan

Reagent

---

**ATNMOCLCSs\_00007**



Air Liquide America  
Specialty Gases LLC



Shipped From: 6141 EASTON ROAD, BLDG 1  
PLUMSTEADVILLE PA 18949-0310  
Phone: 800-331-4953  
Fax: 215-766-7226  
PO BOX 310

C E R T I F I C A T E O F A N A L Y S I S

TESTAMERICA  
30 COMMUNITY DRIVE  
SOUTH BURLINGTON VT 05403  
US

DOCUMENT#: 55543259 -001  
PO#: 2566053  
ITEM #: T4448-17  
DATE: 03Jun2014

ANALYTICAL ACCURACY: +/-5%  
PRODUCT EXPIRATION: 03Jun2017

LOT # : 153PLU4SPC01D

COMPONENT	REQUESTED GAS	ANALYSIS
	CONC MOLES	(MOLES)
PROPANE	1.0 %	1.0 %
NITROGEN	BALANCE	BALANCE



725264  
ID: ATNMOCCALs\_00011  
Exp. 10/30/15 Prpd BPL Opn. 10/30/14  
Propane 1% NMOC

*BL*  
*10/30/2014*



725265  
ID: ATNMOCLCSs\_00007  
Exp. 10/30/15 Prpd BPL Opn. 10/30/14  
Propane 1% NMOC

MANUFACTURED DATE: 03Jun2014

SCOTTY SIZE: 17

APPROVED BY:

*Lynn Matonis*  
LYNN MATONIS



Reagent

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**ATNMOCLCSs\_00008**

1176940

Shipped 6141 Easton Road  
 From: Plumsteadville, PA 18949  
 Phone: 215-766-8860  
 Fax: 215-766-7226

**CERTIFICATE OF ANALYSIS**

TESTAMERICA  
 TESTAMERICA  
 30 Community Dr  
 South Burlington, VT 05403-6809  
 US

Sales Order #: 3660380  
 P.O. #: 2650212  
 Item No.: A0914090  
 Date: 17Jun2016

Cylinder #: ST0000165684  
 Fill Pressure: 240 PSIG  
 CGA: 600

Product Expiration: 17Jun2019  
 Lot #: 403-462492

Blend Type: CERTIFIED SCOTTY

Component Name	Requested Gas Conc (Moles)	Analysis (Mole)	Accuracy (+ / - %)
PROPANE	1.00 %	1.0 %	2
NITROGEN	BALANCE	BALANCE	

APPROVED BY:

*Dan Trivisano*  
 DAN TRAVISANO

DATE: 16Jun2016

# Method EPA 3C

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Fixed Gases from Stationary Sources  
by Method EPA - 3C

FORM III  
AIR - GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Matrix: Air Level: Low Lab File ID: 3clcs20181008a.d-avg

Lab ID: LCS 200-135231/2 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (% v/v)	LCS CONCENTRATION (% v/v)	LCS % REC	QC LIMITS REC	#
Carbon dioxide	5.00	5.28	106	70-130	
Methane	4.00	3.95	99	70-130	
Nitrogen	5.00	4.73	95	70-130	
Oxygen	2.50	2.30	92	70-130	

# Column to be used to flag recovery and RPD values

FORM IV  
AIR - GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab File ID: mb20181008a.d-avg Lab Sample ID: MB 200-135231/3  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CH0001.i Date Analyzed: 10/08/2018 18:00  
 GC Column: CTR-1 ID: 3.175 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-135231/2	3clcs20181008a.d-avg	10/08/2018 13:20
KTSG-COMP-9	200-45504-1	200-45504-a-1e.d-avg	10/08/2018 20:41
KTSG-COMP-10	200-45504-2	200-45504-a-2e.d-avg	10/08/2018 21:45
KTSG-COMP-11	200-45504-3	200-45504-a-3e.d-avg	10/08/2018 22:50
KTSG-COMP-12	200-45504-4	200-45504-a-4e.d-avg	10/08/2018 23:54
KTSG-COMP-13	200-45504-5	200-45504-a-5e.d-avg	10/09/2018 01:02
KTSG-COMP-14	200-45504-6	200-45504-a-6e.d-avg	10/09/2018 02:09
KTSG-COMP-15	200-45504-7	200-45504-a-7e.d-avg	10/09/2018 03:13
KTSG-COMP-16	200-45504-8	200-45504-a-8e.d-avg	10/09/2018 04:17
KTSG-COMP-17	200-45504-9	200-45504-a-9e.d-avg	10/09/2018 05:22

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-9</u>	Lab Sample ID: <u>200-45504-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-1e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/26/2018 10:05</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/08/2018 20:41</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.9</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	40		0.095	0.095
74-82-8	Methane	58		0.076	0.076
7727-37-9	Nitrogen	7.0		0.95	0.95
7782-44-7	Oxygen	1.1		0.095	0.095

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-1e.d  
 Lims ID: 200-45504-A-1  
 Client ID: KTSG-COMP-9  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 20:41:31 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 2.000 mL Dil. Factor: 1.9000  
 Sample Info: 200-45504-A-1e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:24:00

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.878	1.894	-0.016	928057	20.9	
2 Oxygen	4.455	4.487	-0.032	30230	0.6018	
3 Nitrogen	5.495	5.582	-0.087	207029	3.71	
4 Methane	7.617	8.069	-0.452	1253355	30.6	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-1f.d  
 Lims ID: 200-45504-A-1  
 Client ID: KTSG-COMP-9  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 20:57:32 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 2.000 mL Dil. Factor: 1.9000  
 Sample Info: 200-45504-A-1f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:24:21

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.880	1.894	-0.014	928712	20.9	
2 Oxygen	4.475	4.487	-0.012	30538	0.6079	
3 Nitrogen	5.512	5.582	-0.070	206105	3.69	
4 Methane	7.655	8.069	-0.414	1265115	30.9	a

QC Flag Legend

Review Flags

a - User Assigned ID



Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-1e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-1f-134974-ai\_3c\_limits-1.txt

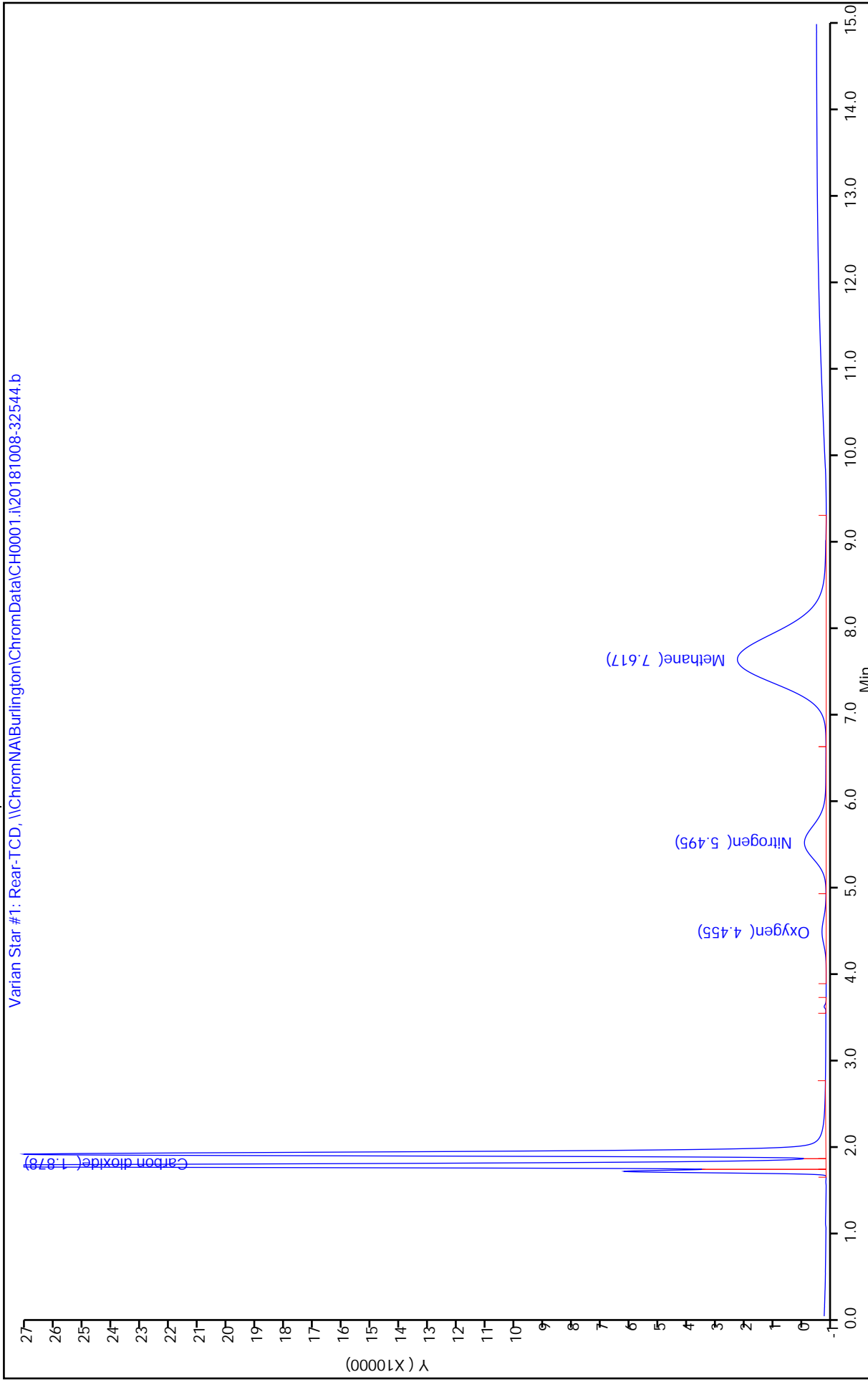
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	928057	928712	928384.5	0.04
Oxygen	30230	30538	30384	0.51
Nitrogen	207029	206105	206567	0.22
Methane	1253355	1265115	1259235	0.47

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	20.91	20.92	20.92	0.04
Oxygen	0.6	0.61	0.6	0.51
Nitrogen	3.71	3.69	3.7	0.22
Methane	30.6	30.88	30.74	0.47

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-1.e.d  
Injection Date: 08-Oct-2018 20:41:31 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1 Worklist Smp#: 11  
Client ID: KTSG-COMP-9 Dil. Factor: 1.9000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i

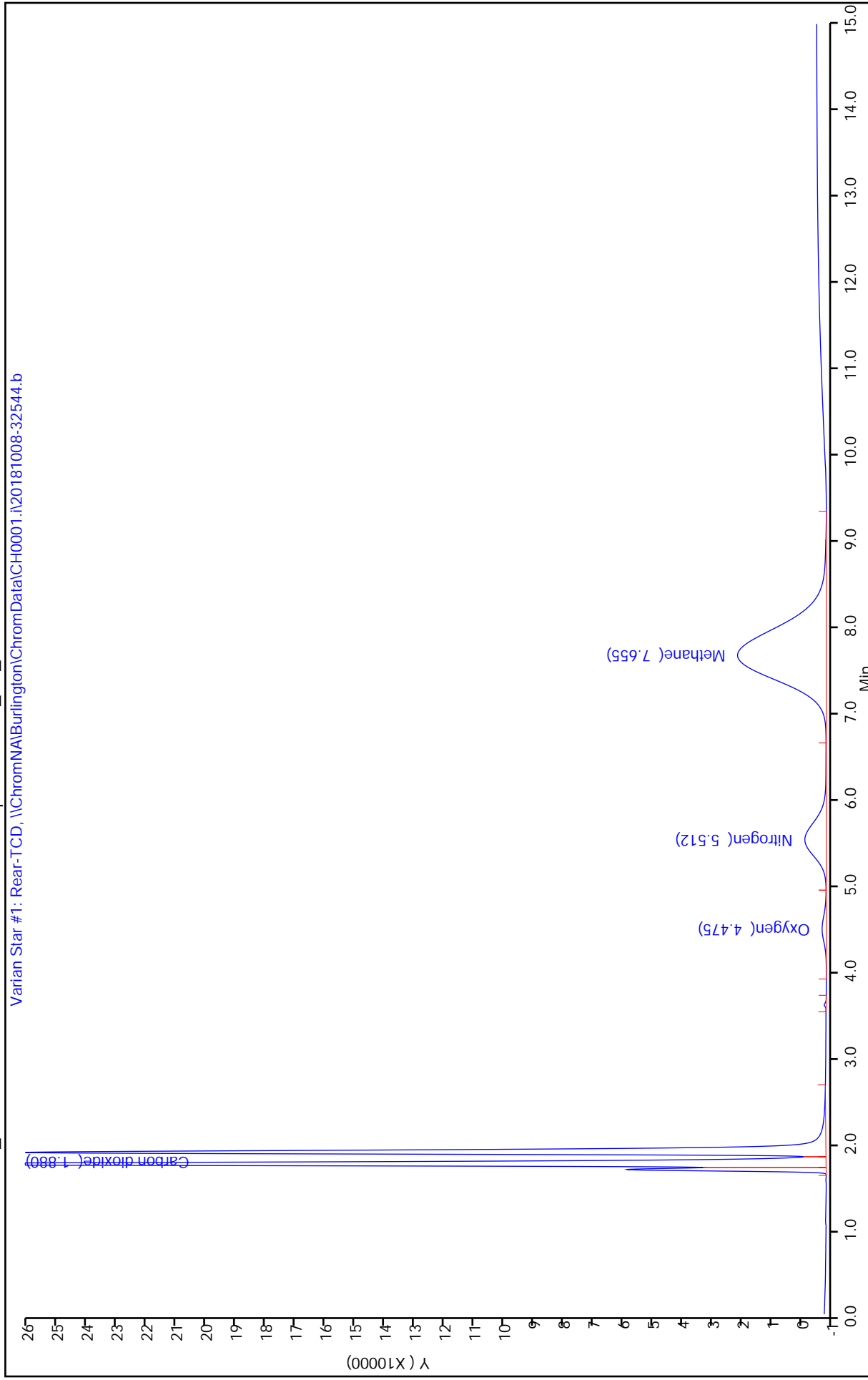


Report Date: 15-Oct-2018 10:21:50

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-1f.d  
Injection Date: 08-Oct-2018 20:57:32 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1 Worklist Smp#: 12  
Client ID: KTSG-COMP-9 Dil. Factor: 1.9000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

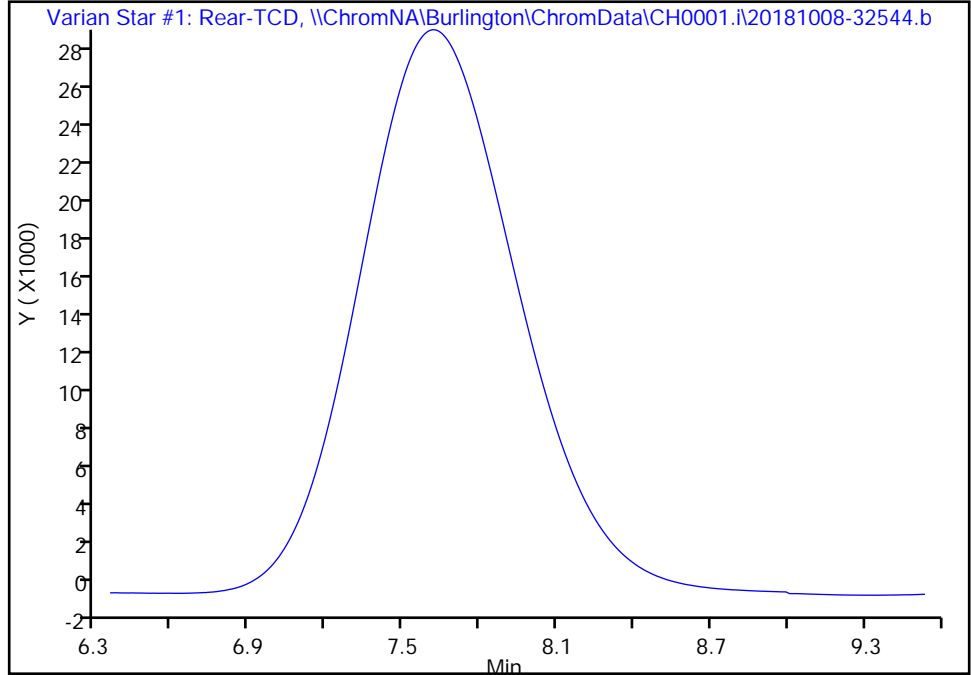
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Injection Date: 08-Oct-2018 20:41:31 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1  
Client ID: KTSG-COMP-9  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 2.000 mL Dil. Factor: 1.9000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

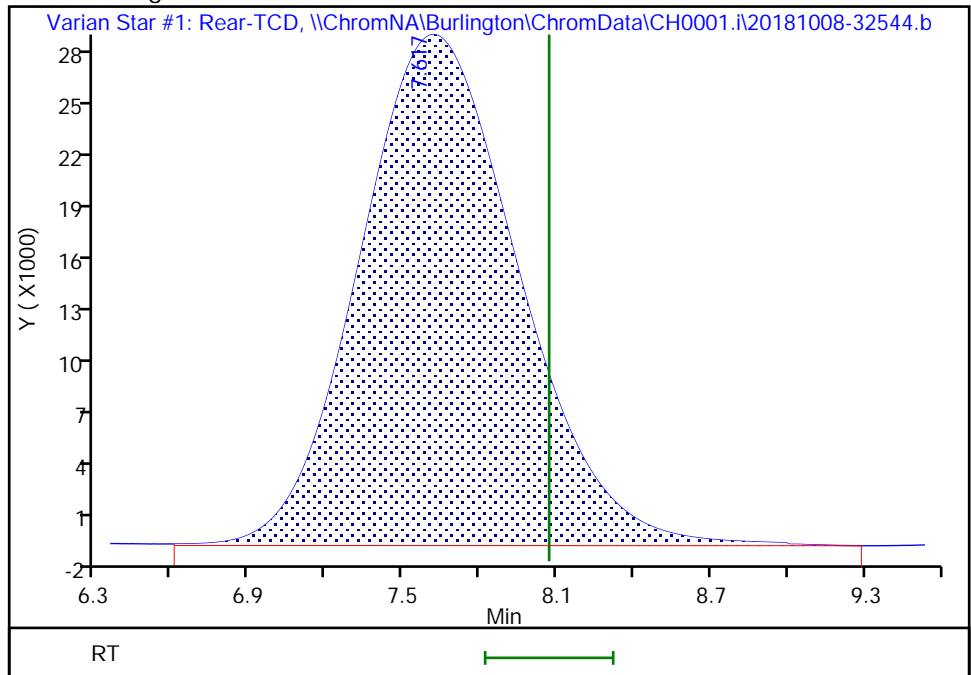
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.62  
Area: 1253355  
Amount: 30.597470  
Amount Units: % v/v



TestAmerica Burlington

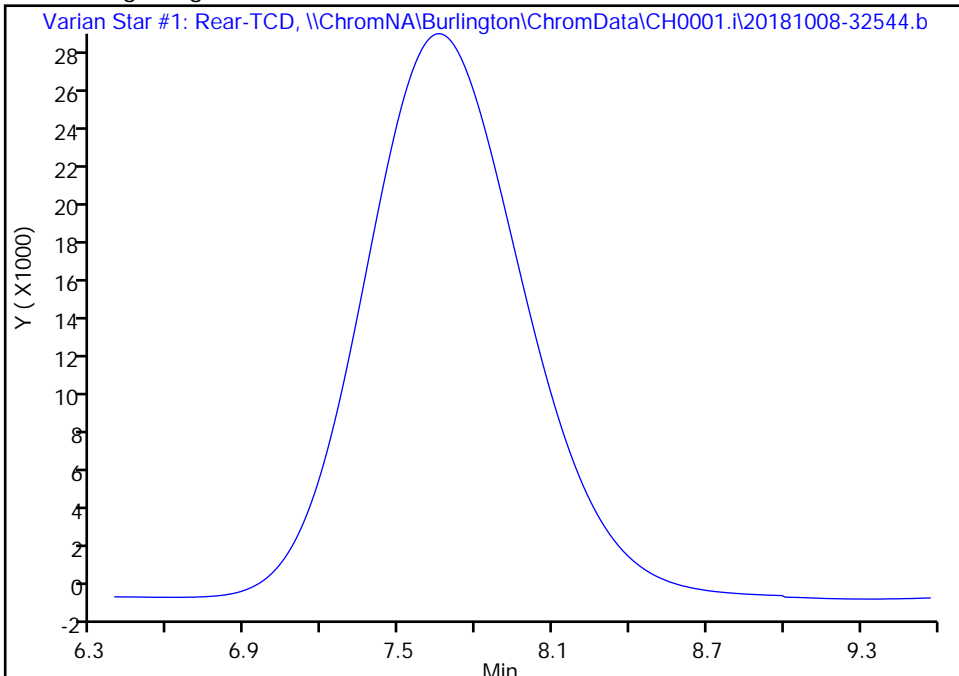
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-1f.d  
Injection Date: 08-Oct-2018 20:57:32 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1  
Client ID: KTSG-COMP-9  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 12  
Purge Vol: 2.000 mL Dil. Factor: 1.9000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

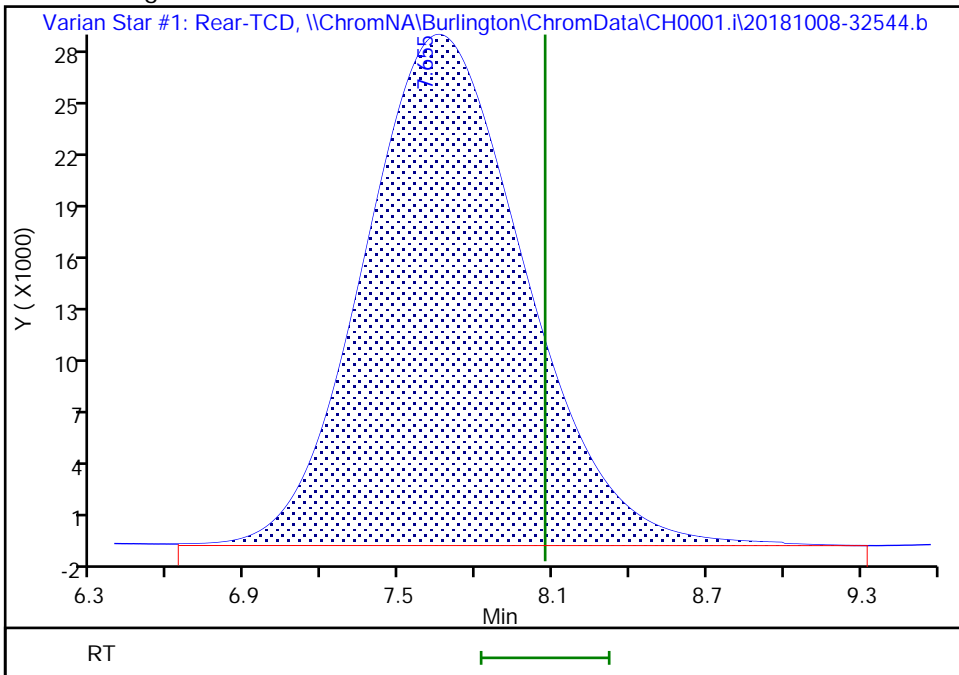
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 7.66  
Area: 1265115  
Amount: 30.884560  
Amount Units: % v/v

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-10</u>	Lab Sample ID: <u>200-45504-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-2e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/26/2018 11:04</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/08/2018 21:45</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.97</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	42		0.099	0.099
74-82-8	Methane	63		0.079	0.079
7727-37-9	Nitrogen	2.9		0.99	0.99
7782-44-7	Oxygen	0.24		0.099	0.099

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-2e.d  
 Lims ID: 200-45504-A-2  
 Client ID: KTSG-COMP-10  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 21:45:46 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-2e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:24:34

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.893	1.894	-0.001	933412	21.0	
2 Oxygen	4.523	4.487	0.036	6209	0.1236	
3 Nitrogen	5.587	5.582	0.005	81087	1.45	
4 Methane	7.752	8.069	-0.317	1314108	32.1	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-2f.d  
 Lims ID: 200-45504-A-2  
 Client ID: KTSG-COMP-10  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 22:01:47 ALS Bottle#: 0 Worklist Smp#: 14  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-2f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:24:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.897	1.894	0.003	937246	21.1	
2 Oxygen	4.537	4.487	0.050	6198	0.1234	
3 Nitrogen	5.597	5.582	0.015	82154	1.47	
4 Methane	7.772	8.069	-0.297	1320419	32.2	a

QC Flag Legend

Review Flags

a - User Assigned ID



Processing 3C data for files:

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z:\ch0001-3hutch\200-45504-a-2f-134974-ai\_3c\_limits-1.txt

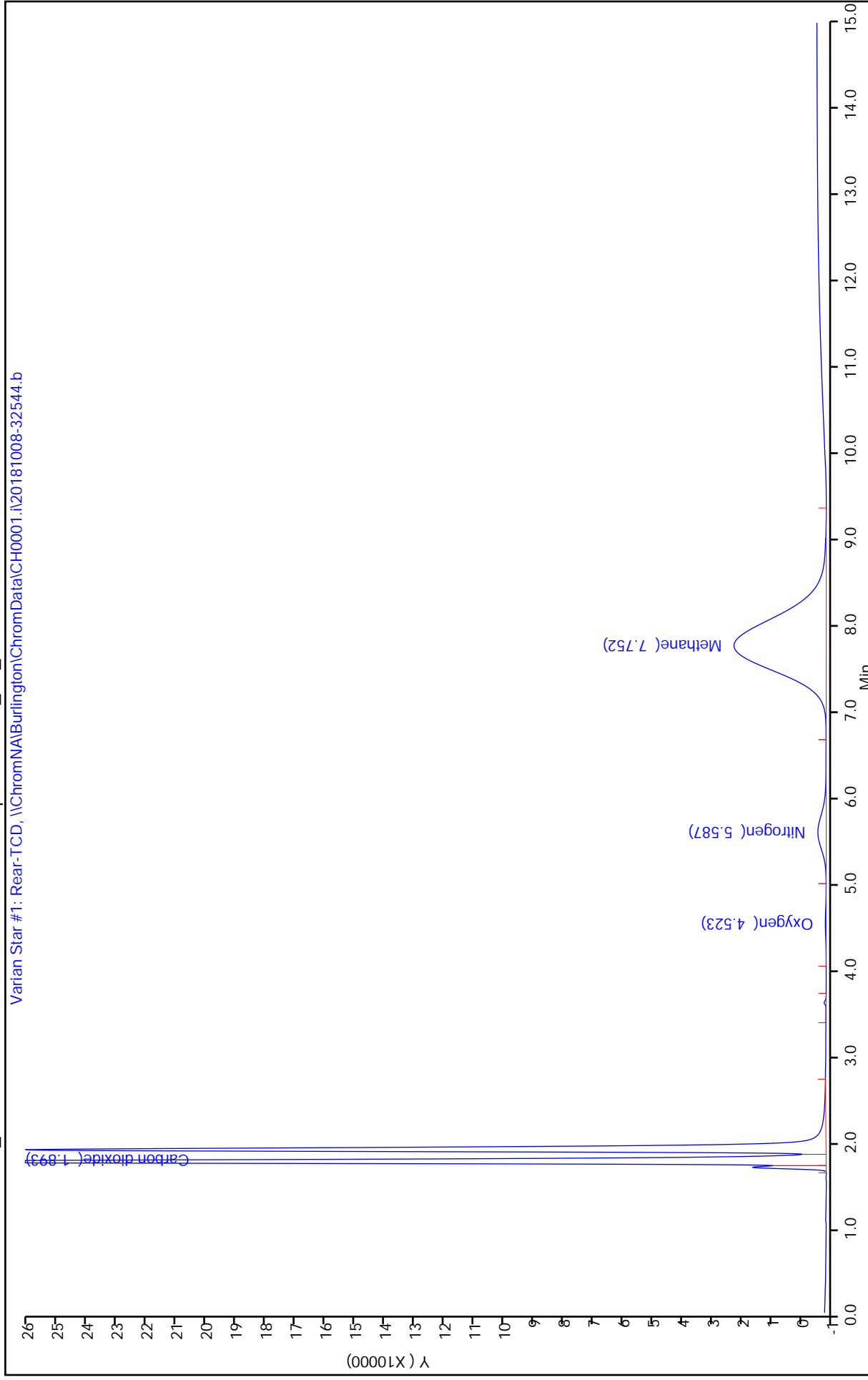
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	933412	937246	935329	0.2
Oxygen	6209	6198	6203.5	0.09
Nitrogen	81087	82154	81620.5	0.65
Methane	1314108	1320419	1317263.5	0.24

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	21.03	21.12	21.07	0.2
Oxygen	0.12	0.12	0.12	0.09
Nitrogen	1.45	1.47	1.46	0.65
Methane	32.08	32.23	32.16	0.24

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-2e.d  
Injection Date: 08-Oct-2018 21:45:46 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-2 Lab Sample ID: 200-45504-2 Worklist Smp#: 13  
Client ID: KTSG-COMP-10 Dil. Factor: 1.9700 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



Report Date: 15-Oct-2018 10:21:53

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-2f.d

Injection Date: 08-Oct-2018 22:01:47

Operator ID: WRD

Lims ID: 200-45504-A-2

Worklist Smp#: 14

Client ID: KTSG-COMP-10

Purge Vol: 2.000 mL

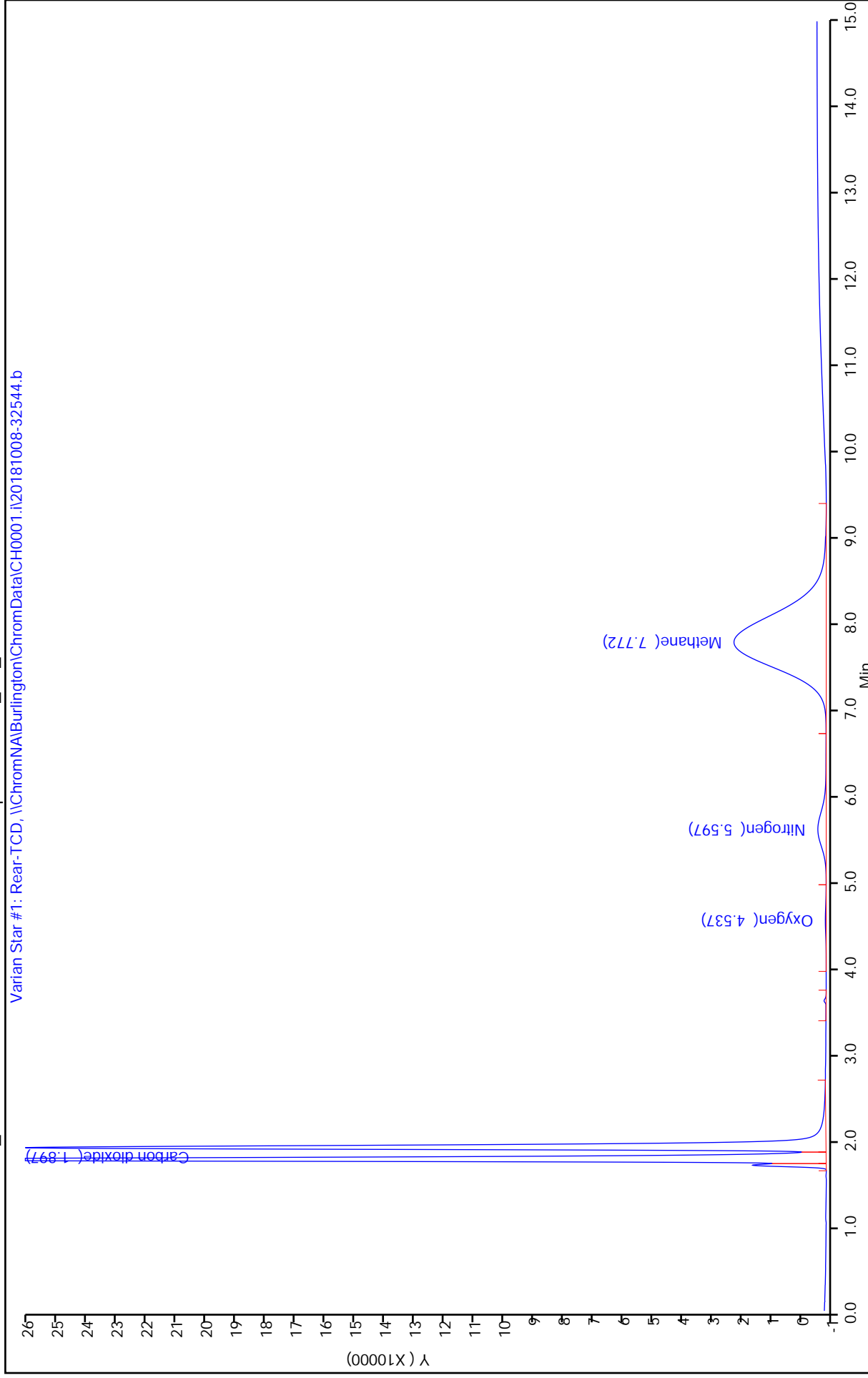
ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Dil. Factor: 1.9700

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b



TestAmerica Burlington

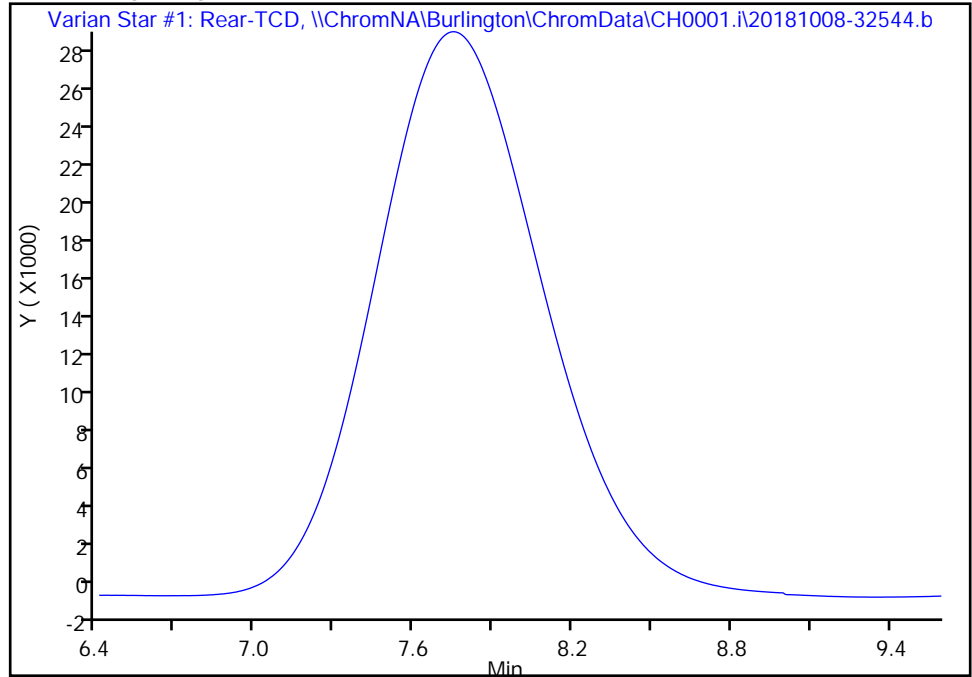
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Injection Date: 08-Oct-2018 21:45:46 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-2 Lab Sample ID: 200-45504-2  
Client ID: KTSG-COMP-10  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 13  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

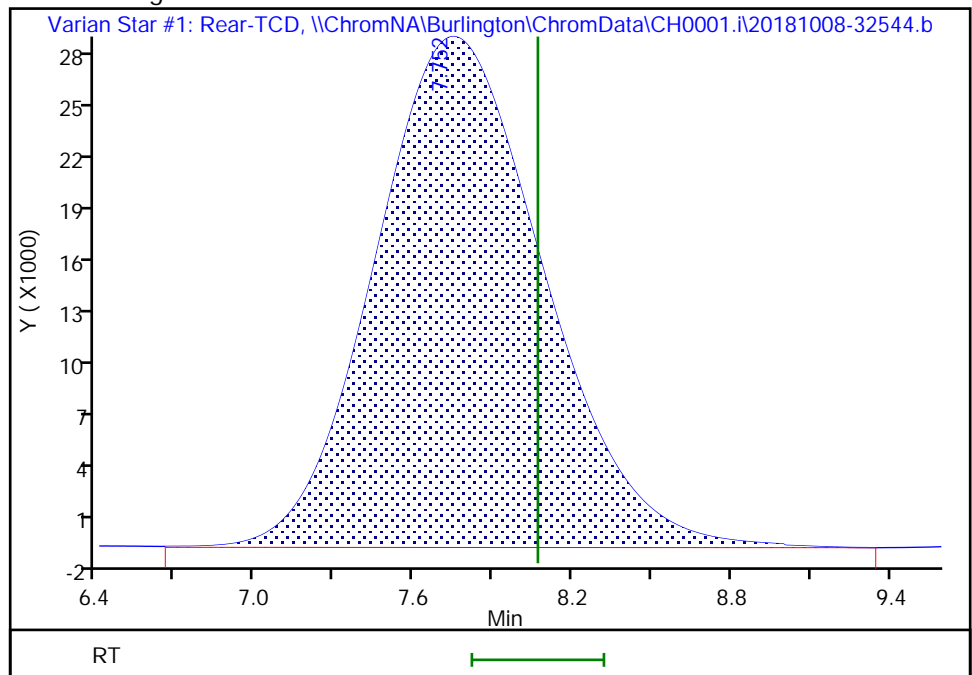
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.75  
Area: 1314108  
Amount: 32.080600  
Amount Units: % v/v



TestAmerica Burlington

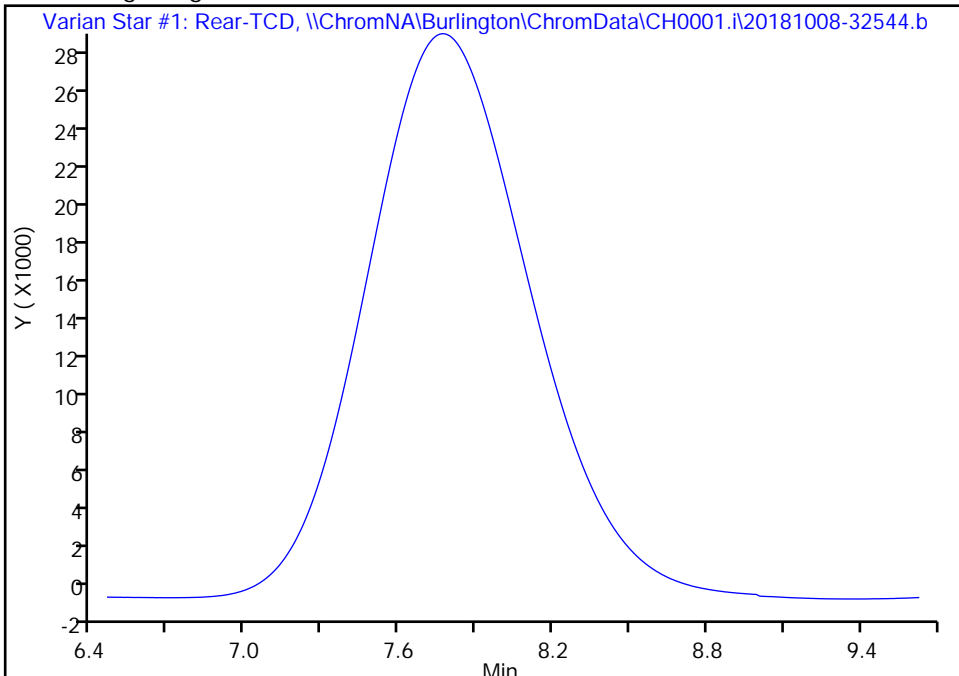
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-2f.d  
Injection Date: 08-Oct-2018 22:01:47 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-2 Lab Sample ID: 200-45504-2  
Client ID: KTSG-COMP-10  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 14  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

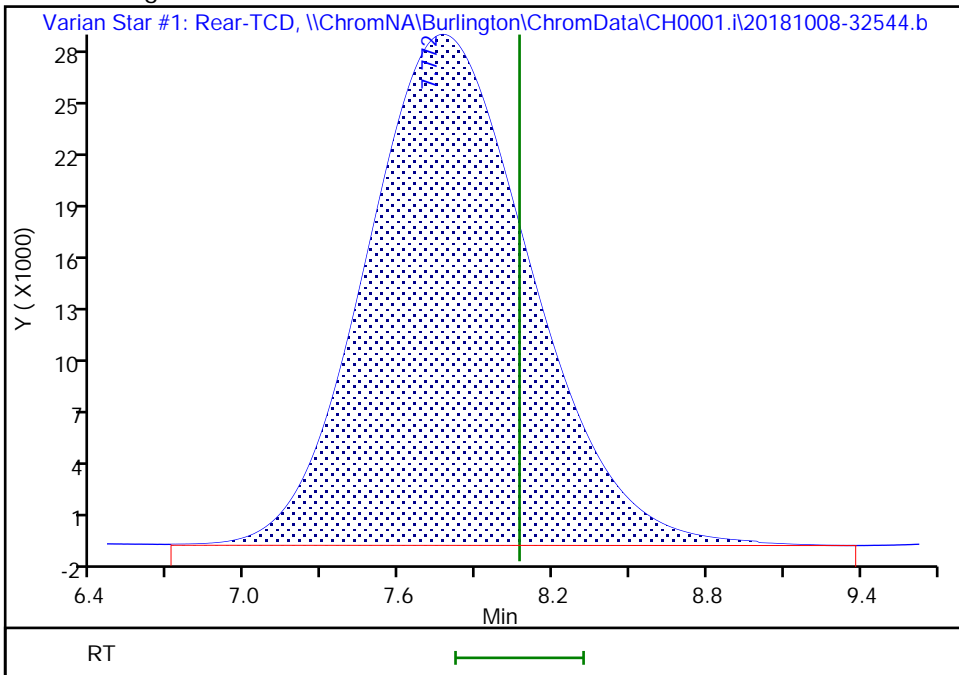
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 7.77  
Area: 1320419  
Amount: 32.234667  
Amount Units: % v/v

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-11</u>	Lab Sample ID: <u>200-45504-3</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-3e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/26/2018 12:15</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/08/2018 22:50</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.97</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	38		0.099	0.099
74-82-8	Methane	48		0.079	0.079
7727-37-9	Nitrogen	14		0.99	0.99
7782-44-7	Oxygen	3.3		0.099	0.099

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-3e.d  
 Lims ID: 200-45504-A-3  
 Client ID: KTSG-COMP-11  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 22:50:10 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-3e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:24:55

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.880	1.894	-0.014	852540	19.2	
2 Oxygen	4.468	4.487	-0.019	83845	1.67	
3 Nitrogen	5.495	5.582	-0.087	400912	7.18	
4 Methane	7.640	8.069	-0.429	996620	24.3	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-3f.d  
 Lims ID: 200-45504-A-3  
 Client ID: KTSG-COMP-11  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 23:06:11 ALS Bottle#: 0 Worklist Smp#: 16  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-3f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:25:07

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.883	1.894	-0.011	859403	19.4	
2 Oxygen	4.478	4.487	-0.009	84504	1.68	
3 Nitrogen	5.518	5.582	-0.064	405646	7.27	
4 Methane	7.670	8.069	-0.399	1003572	24.5	a

QC Flag Legend

Review Flags

a - User Assigned ID



Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-3e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-3f-134974-ai\_3c\_limits-1.txt

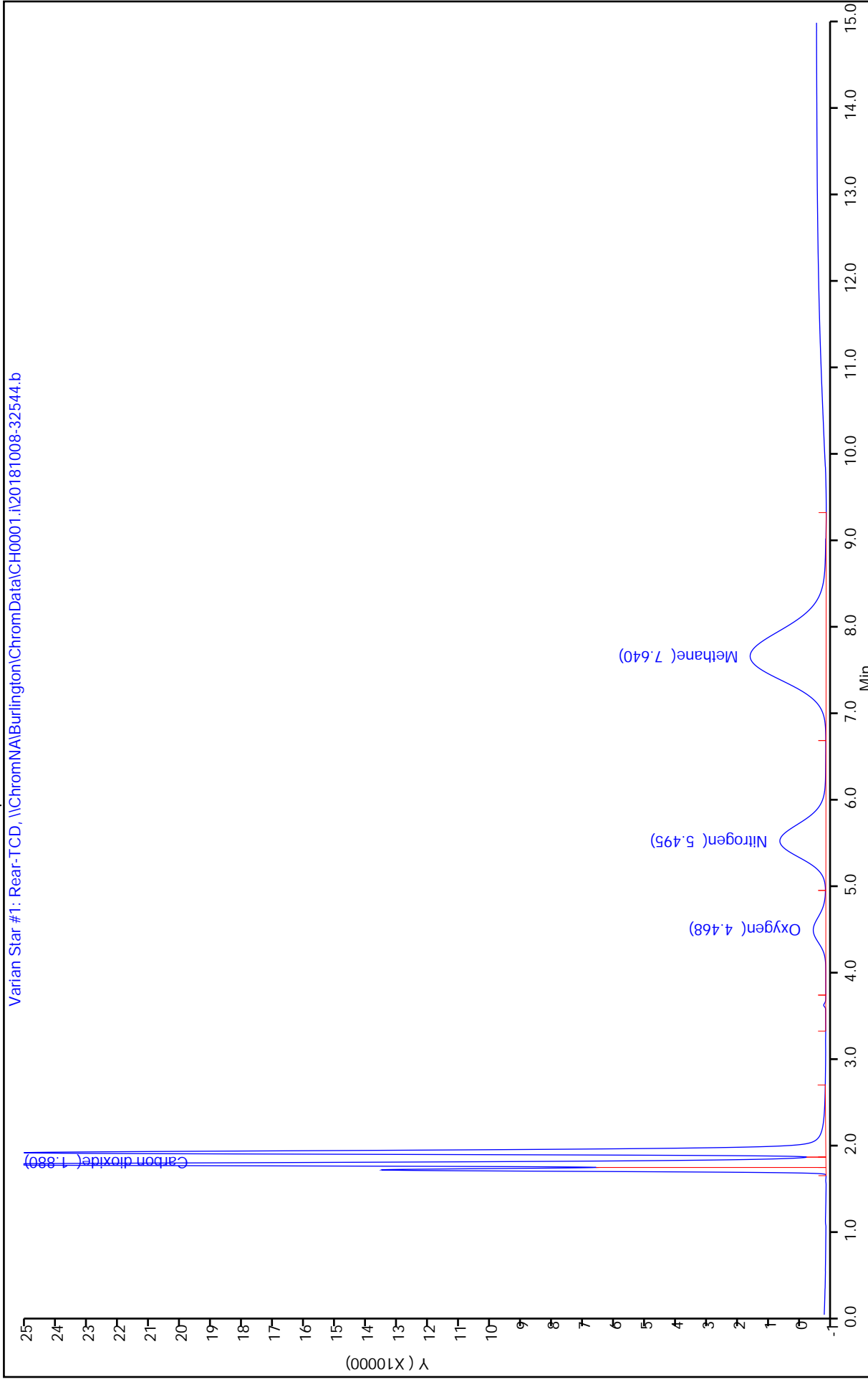
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	852540	859403	855971.5	0.4
Oxygen	83845	84504	84174.5	0.39
Nitrogen	400912	405646	403279	0.59
Methane	996620	1003572	1000096	0.35

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	19.21	19.36	19.28	0.4
Oxygen	1.67	1.68	1.68	0.39
Nitrogen	7.18	7.27	7.22	0.59
Methane	24.33	24.5	24.41	0.35

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-3e.d  
Injection Date: 08-Oct-2018 22:50:10 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-3 Lab Sample ID: 200-45504-3 Worklist Smp#: 15  
Client ID: KTSG-COMP-11 Dil. Factor: 1.9700 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



Report Date: 15-Oct-2018 10:21:55

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-3f.d

Injection Date: 08-Oct-2018 23:06:11

Operator ID: WRD

Lims ID: 200-45504-A-3

Worklist Smp#: 16

Client ID: KTSG-COMP-11

Purge Vol: 2.000 mL

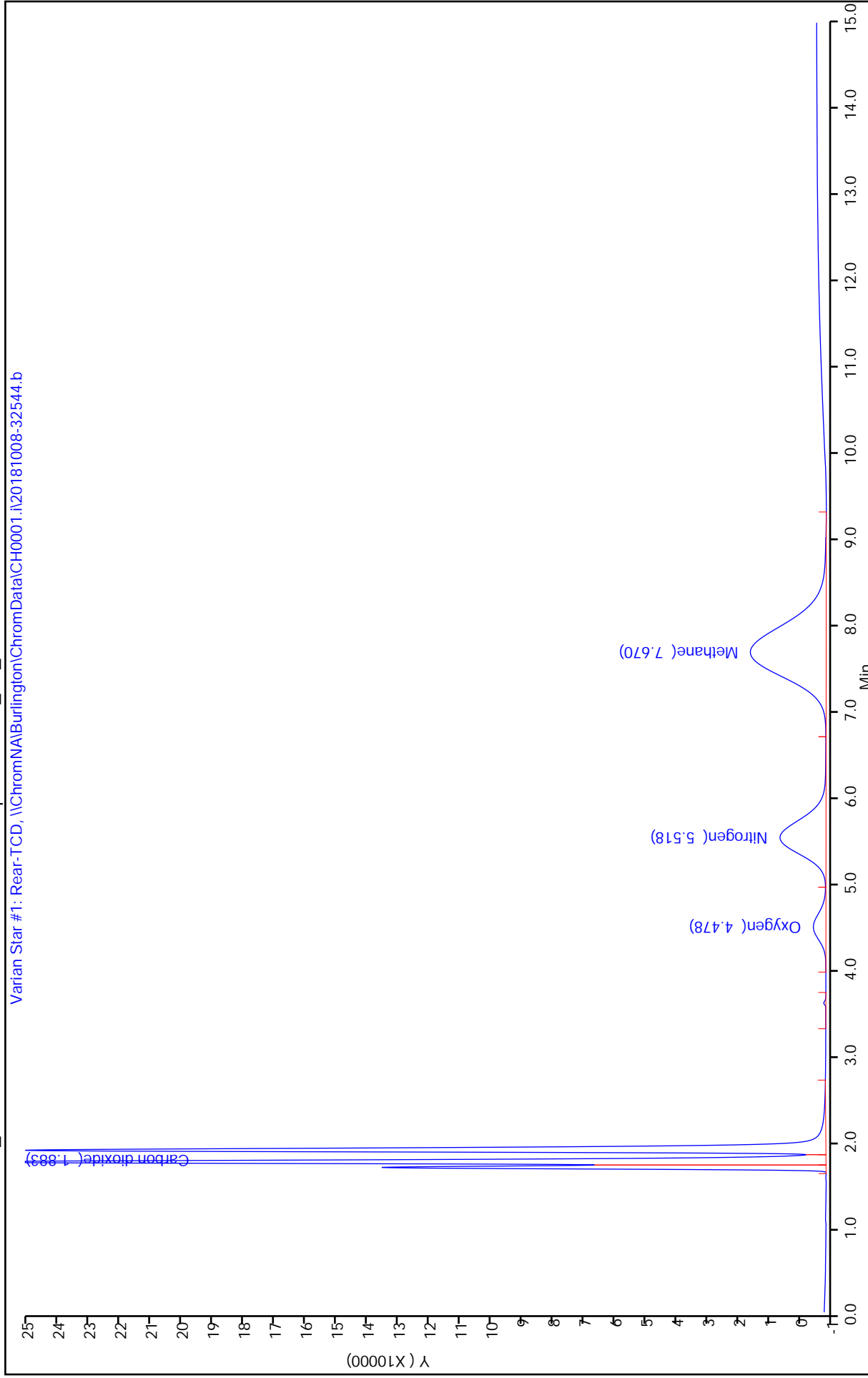
ALS Bottle#: 0

Method: EPA3C\_CH00001.i

Dil. Factor: 1.9700

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b



TestAmerica Burlington

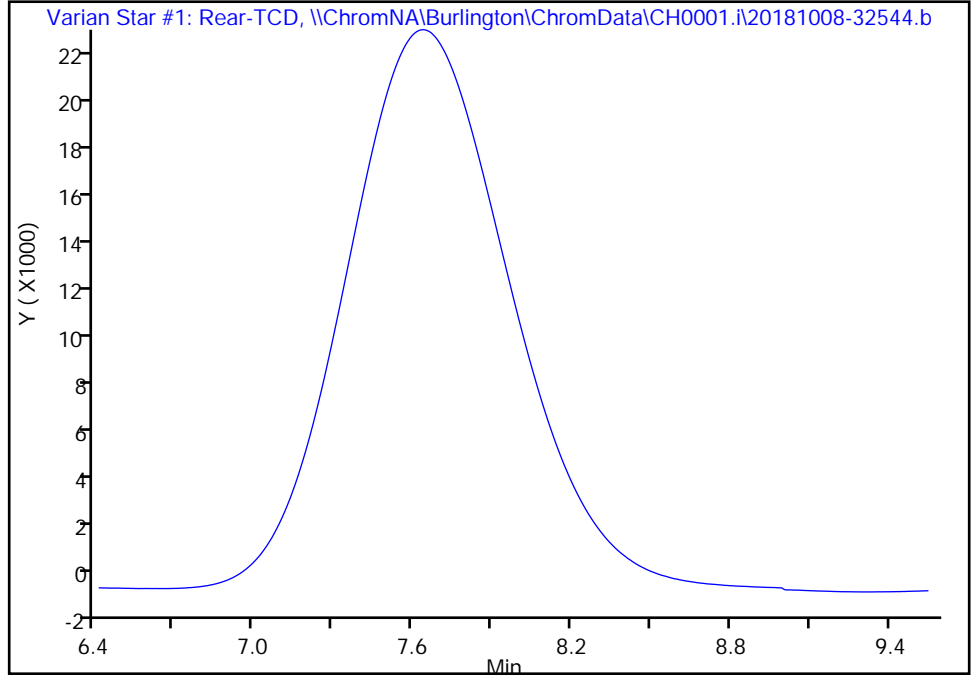
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-3e.d  
Injection Date: 08-Oct-2018 22:50:10 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3 Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

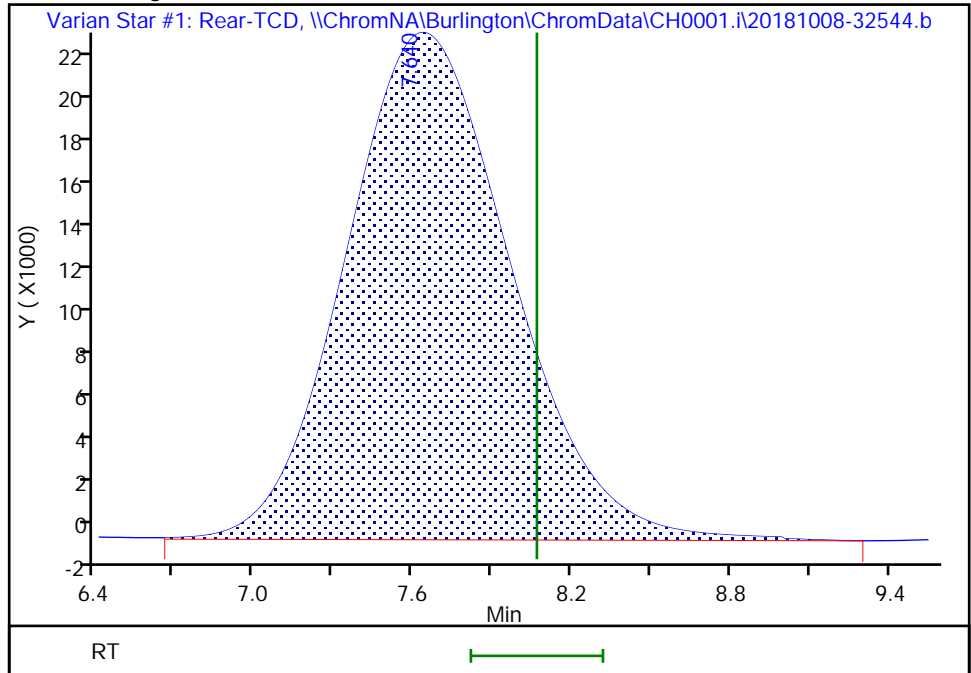
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.64  
Area: 996620  
Amount: 24.329939  
Amount Units: % v/v



TestAmerica Burlington

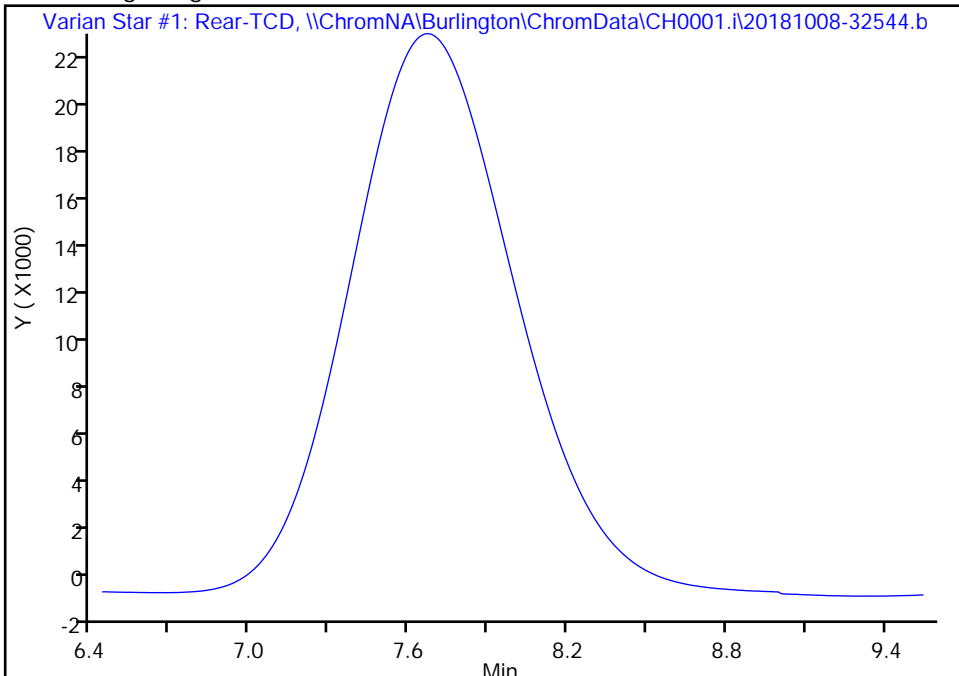
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-3f.d  
Injection Date: 08-Oct-2018 23:06:11 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3 Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 16  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

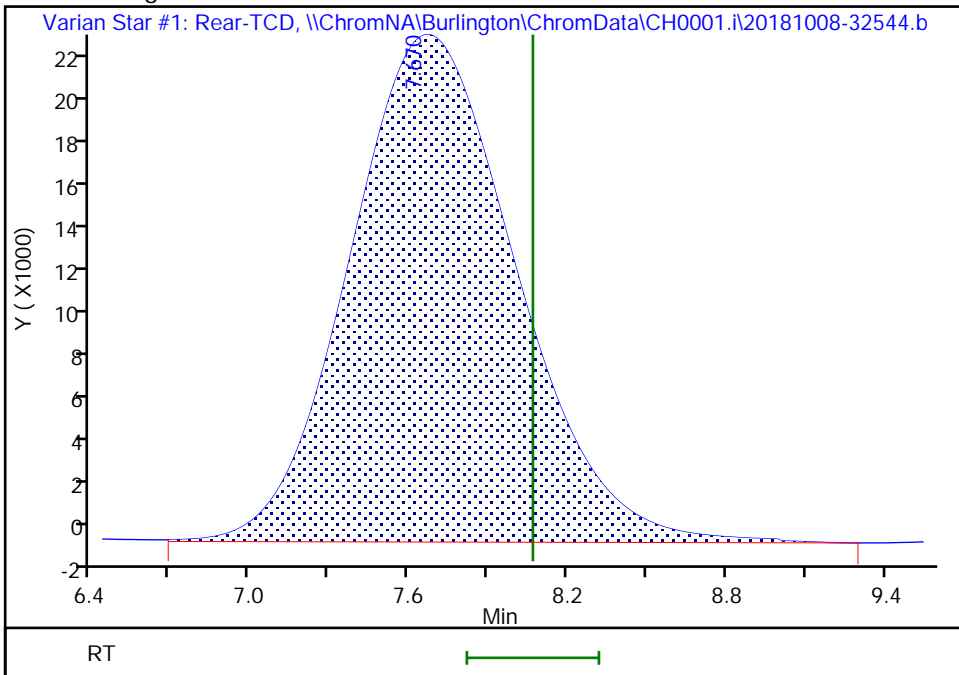
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 7.67  
Area: 1003572  
Amount: 24.499654  
Amount Units: % v/v

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-12</u>	Lab Sample ID: <u>200-45504-4</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-4e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/26/2018 14:07</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/08/2018 23:54</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.97</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	45		0.25	0.25
74-82-8	Methane	56		0.20	0.20
7727-37-9	Nitrogen	7.7		2.5	2.5
7782-44-7	Oxygen	1.5		0.25	0.25

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-4e.d  
 Lims ID: 200-45504-A-4  
 Client ID: KTSG-COMP-12  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 23:54:20 ALS Bottle#: 0 Worklist Smp#: 17  
 Purge Vol: 2.000 mL Dil. Factor: 4.9700  
 Sample Info: 200-45504-A-4e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:25:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.902	1.894	0.008	397368	8.95	
2 Oxygen	4.523	4.487	0.036	15454	0.3076	
3 Nitrogen	5.588	5.582	0.006	86628	1.55	
4 Methane	7.778	8.069	-0.291	460249	11.2	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-4f.d  
 Lims ID: 200-45504-A-4  
 Client ID: KTSG-COMP-12  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 00:11:05 ALS Bottle#: 0 Worklist Smp#: 18  
 Purge Vol: 2.000 mL Dil. Factor: 4.9700  
 Sample Info: 200-45504-A-4f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:25:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.908	1.894	0.014	399890	9.01	
2 Oxygen	4.537	4.487	0.050	15625	0.3110	
3 Nitrogen	5.615	5.582	0.033	87180	1.56	
4 Methane	7.812	8.069	-0.257	460582	11.2	a

QC Flag Legend

Review Flags

a - User Assigned ID



Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-4e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-4f-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	397368	399890	398629	0.32
Oxygen	15454	15625	15539.5	0.55
Nitrogen	86628	87180	86904	0.32
Methane	460249	460582	460415.5	0.04

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	8.95	9.01	8.98	0.32
Oxygen	0.31	0.31	0.31	0.55
Nitrogen	1.55	1.56	1.56	0.32
Methane	11.24	11.24	11.24	0.04

Report Date: 15-Oct-2018 10:21:56

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-4e.d

Injection Date: 08-Oct-2018 23:54:20

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-4

Lab Sample ID: 200-45504-4

Worklist Smp#: 17

Client ID: KTSG-COMP-12

Purge Vol: 2.000 mL

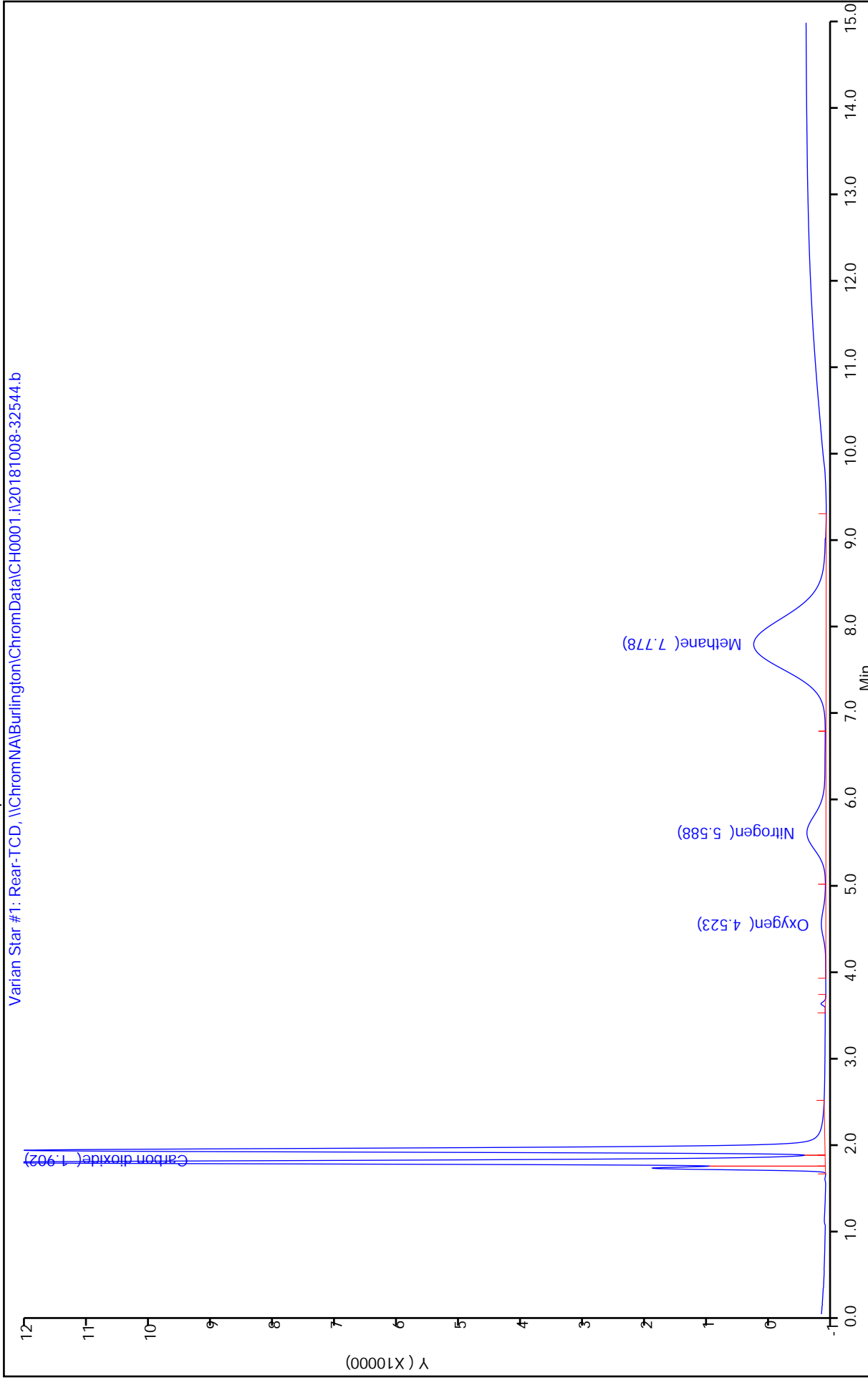
Dil. Factor: 4.9700

ALS Bottle#: 0

Method: EPA3C\_CH00001.i

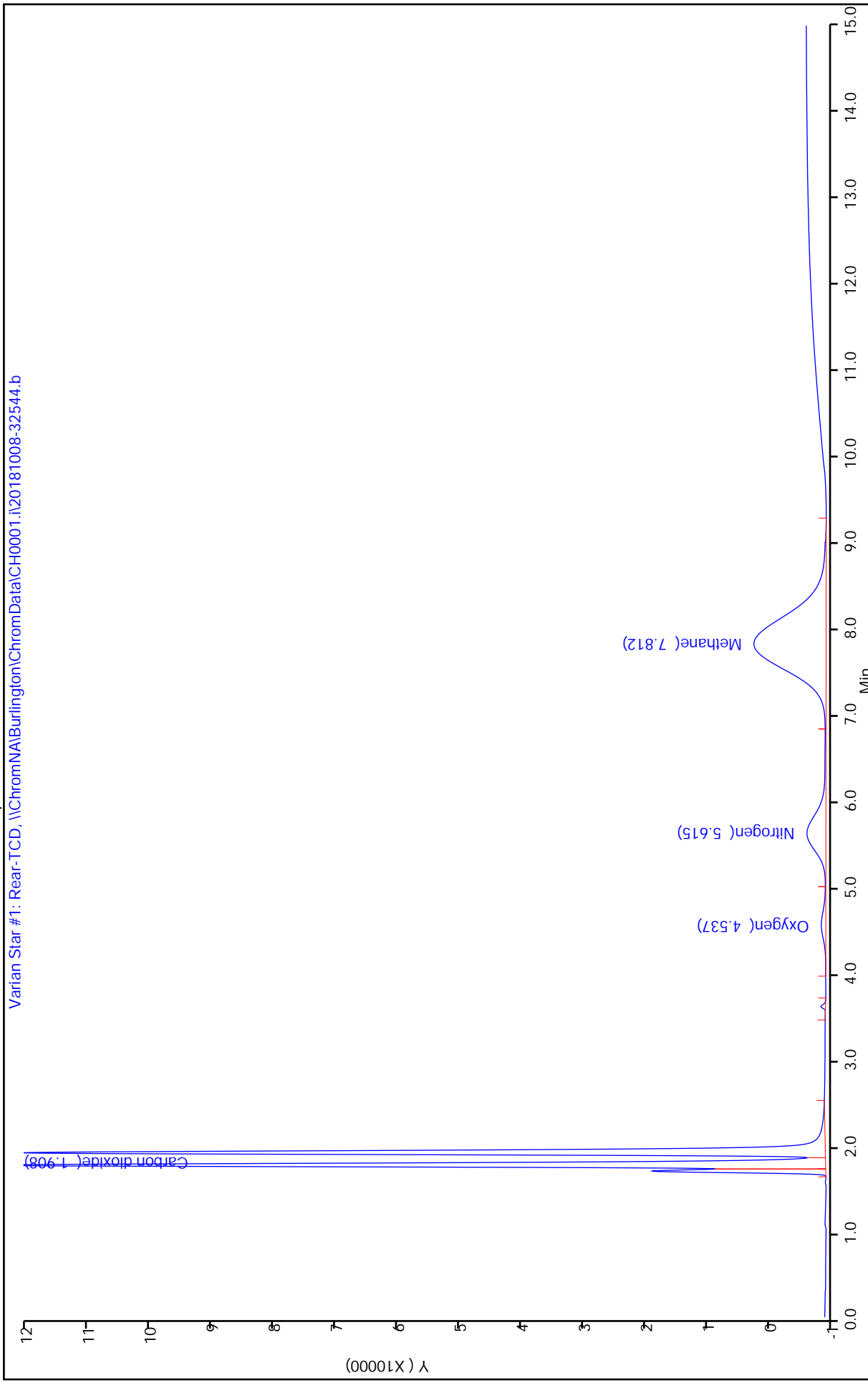
Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-4f.d  
Injection Date: 09-Oct-2018 00:11:05 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-4 Lab Sample ID: 200-45504-4 Worklist Smp#: 18  
Client ID: KTSG-COMP-12 Dil. Factor: 4.9700 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

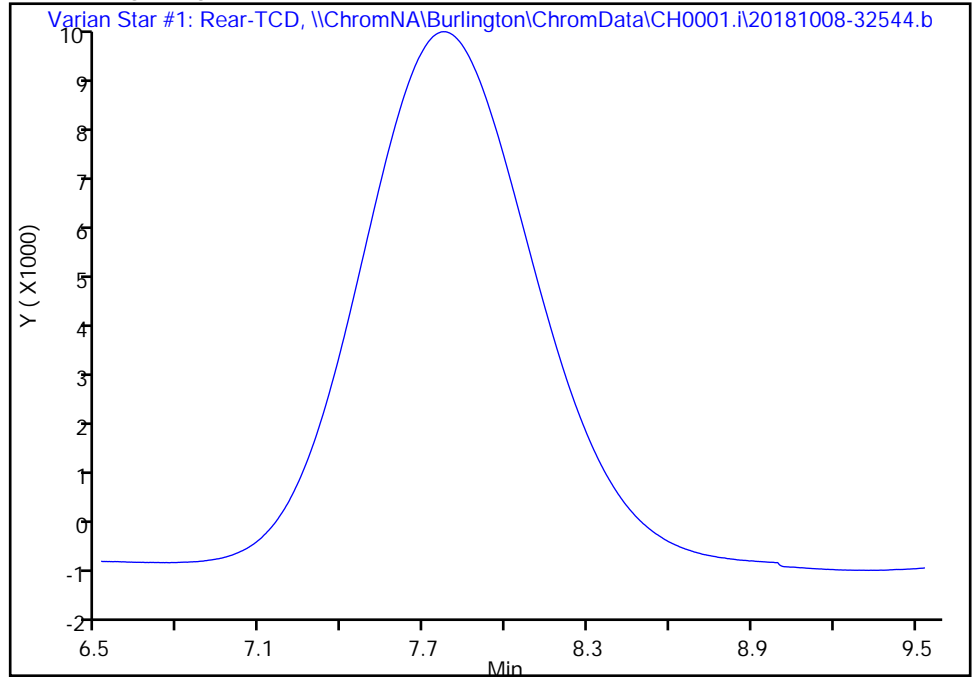
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-4e.d  
Injection Date: 08-Oct-2018 23:54:20 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-4 Lab Sample ID: 200-45504-4  
Client ID: KTSG-COMP-12  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 17  
Purge Vol: 2.000 mL Dil. Factor: 4.9700  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

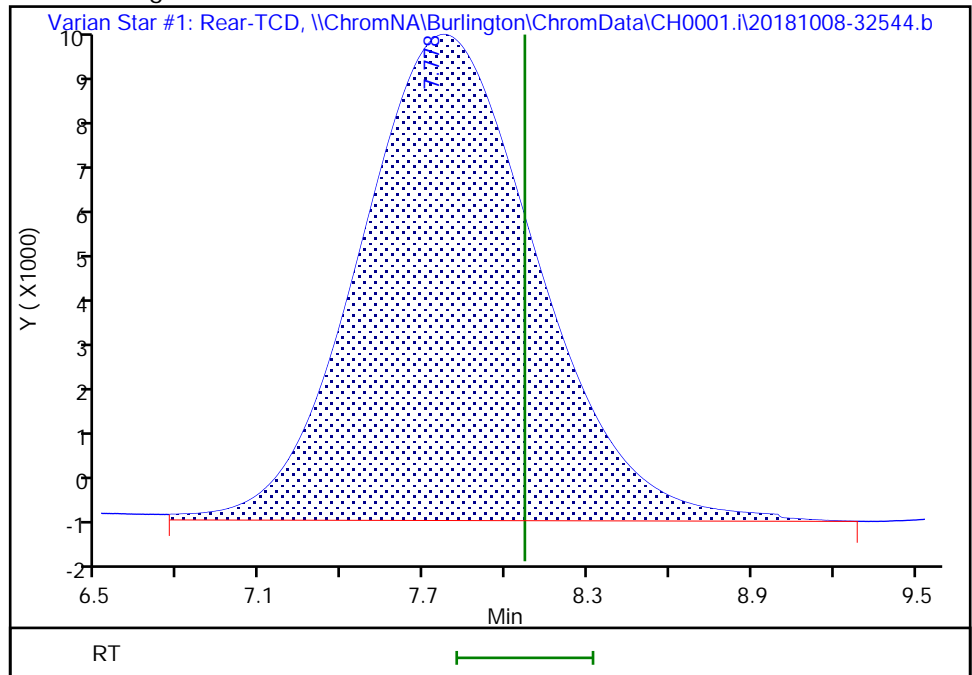
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.78  
Area: 460249  
Amount: 11.235807  
Amount Units: % v/v



TestAmerica Burlington

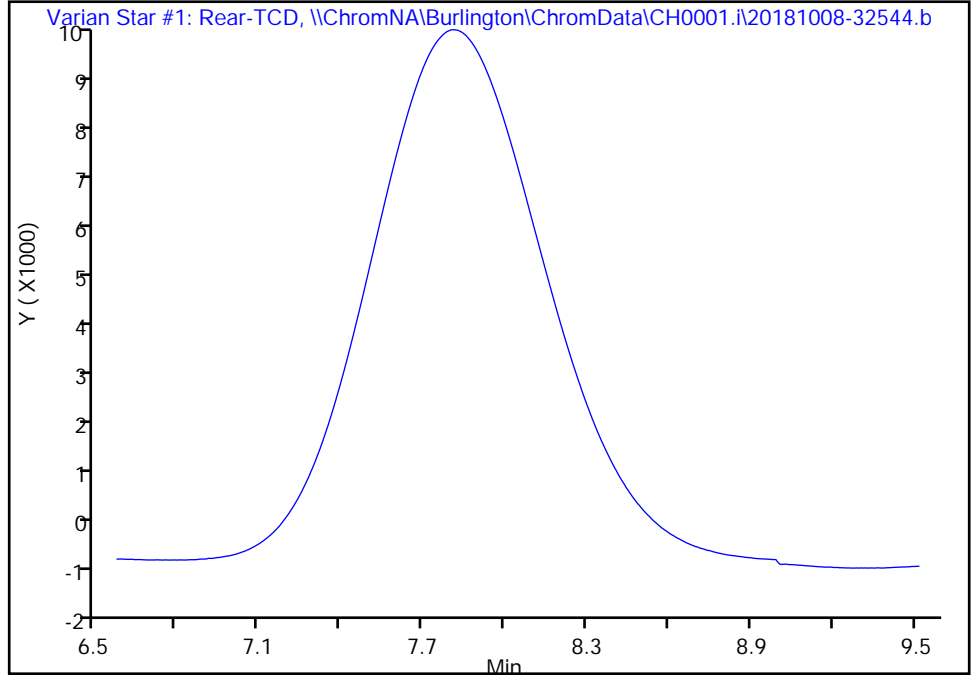
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-4f.d  
Injection Date: 09-Oct-2018 00:11:05 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-4 Lab Sample ID: 200-45504-4  
Client ID: KTSG-COMP-12  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 18  
Purge Vol: 2.000 mL Dil. Factor: 4.9700  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

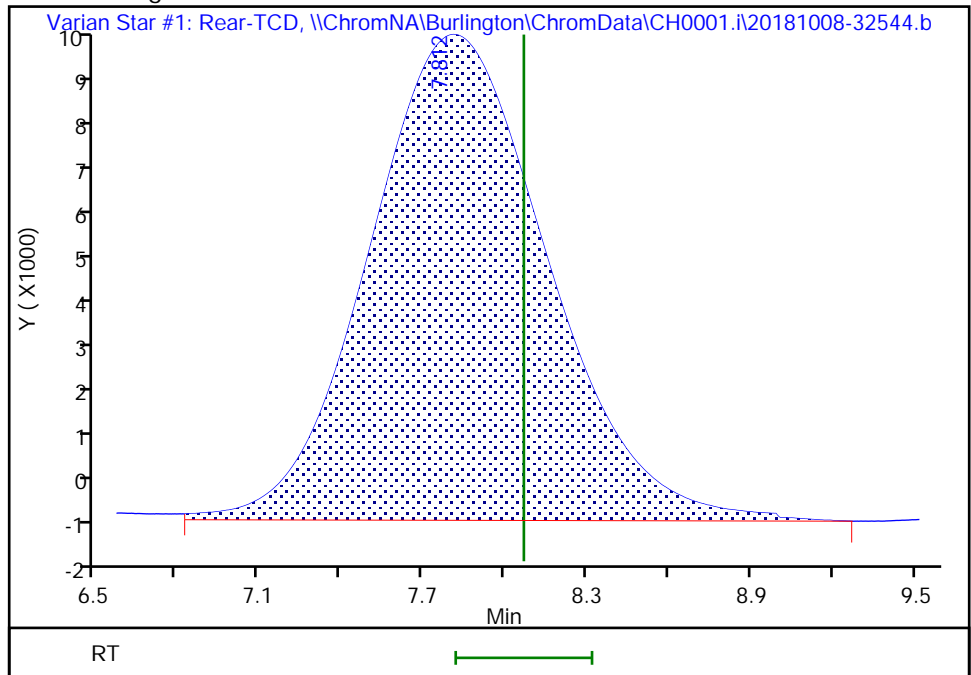
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.81  
Area: 460582  
Amount: 11.243936  
Amount Units: % v/v



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-13</u>	Lab Sample ID: <u>200-45504-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-5e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/26/2018 15:09</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 01:02</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5.11</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	46		0.26	0.26
74-82-8	Methane	59		0.20	0.20
7727-37-9	Nitrogen	2.6	U	2.6	2.6
7782-44-7	Oxygen	0.39		0.26	0.26

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-5e.d  
 Lims ID: 200-45504-A-5  
 Client ID: KTSG-COMP-13  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 01:02:13 ALS Bottle#: 0 Worklist Smp#: 19  
 Purge Vol: 2.000 mL Dil. Factor: 5.1100  
 Sample Info: 200-45504-A-5e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 11:50:50 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:25:37

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.890	1.894	-0.004	393496	8.87	
2 Oxygen	4.495	4.487	0.008	3735	0.0744	
3 Nitrogen	5.547	5.582	-0.035	20211	0.3620	Ma
4 Methane	7.687	8.069	-0.382	467334	11.4	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-5f.d  
 Lims ID: 200-45504-A-5  
 Client ID: KTSG-COMP-13  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 01:19:07 ALS Bottle#: 0 Worklist Smp#: 20  
 Purge Vol: 2.000 mL Dil. Factor: 5.1100  
 Sample Info: 200-45504-A-5f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 11:52:34 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:25:59

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.895	1.894	0.001	397500	8.96	
2 Oxygen	4.495	4.487	0.008	3840	0.0764	M
3 Nitrogen	5.568	5.582	-0.014	19819	0.3550	
4 Methane	7.730	8.069	-0.339	472512	11.5	a

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID



Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-5e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-5f-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	393496	397500	395498	0.51
Oxygen	3735	3840	3787.5	1.39
Nitrogen	20211	19819	20015	0.98
Methane	467334	472512	469923	0.55

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	8.87	8.96	8.91	0.51
Oxygen	0.07	0.08	0.08	1.39
Nitrogen	0.36	0.35	0.36	0.98
Methane	11.41	11.54	11.47	0.55

Report Date: 15-Oct-2018 11:51:10

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-5e.d

Injection Date: 09-Oct-2018 01:02:13

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-5

Lab Sample ID: 200-45504-5

Worklist Smp#: 19

Client ID: KTSG-COMP-13

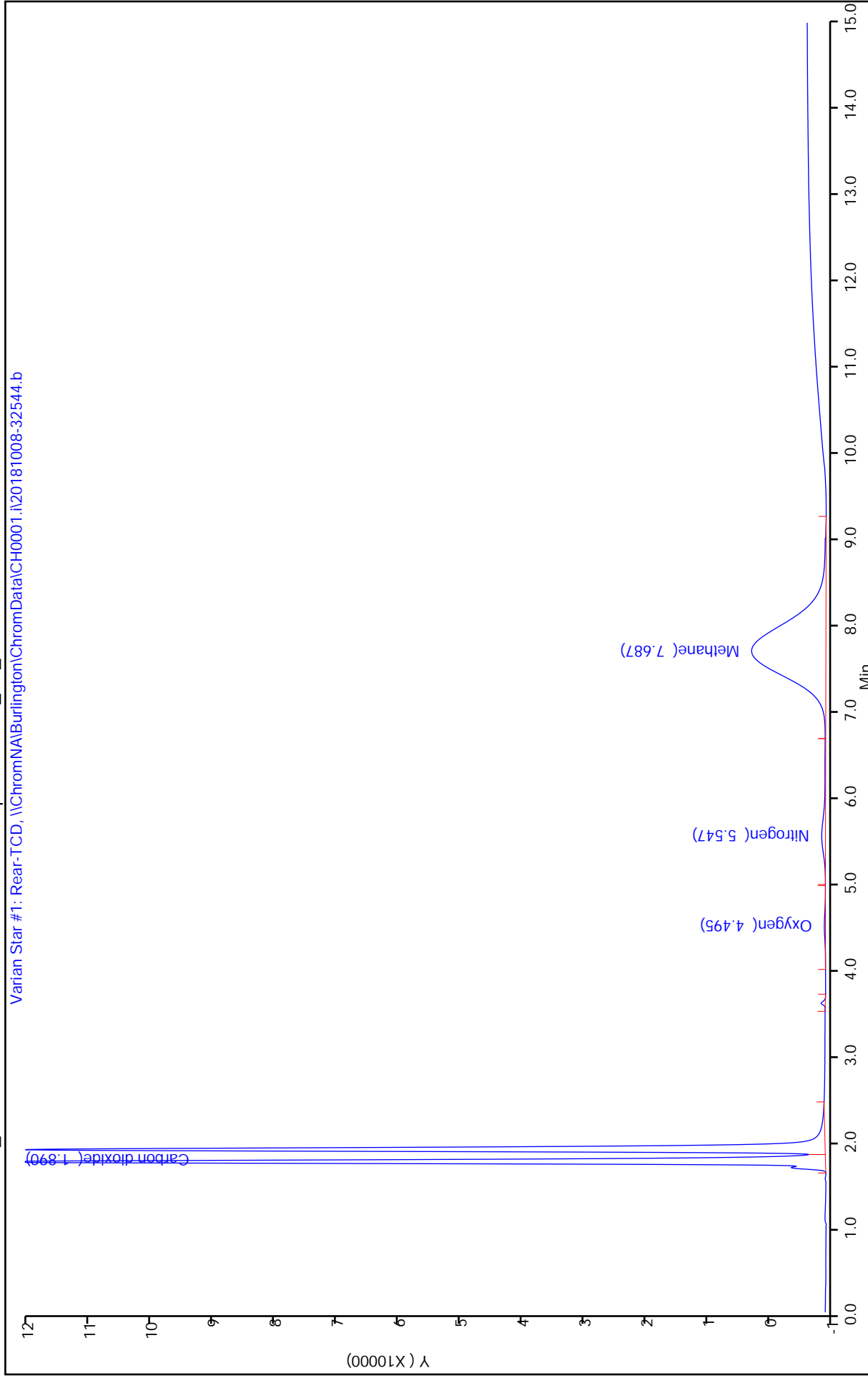
Purge Vol: 2.000 mL

Dil. Factor: 5.1100

ALS Bottle#: 0

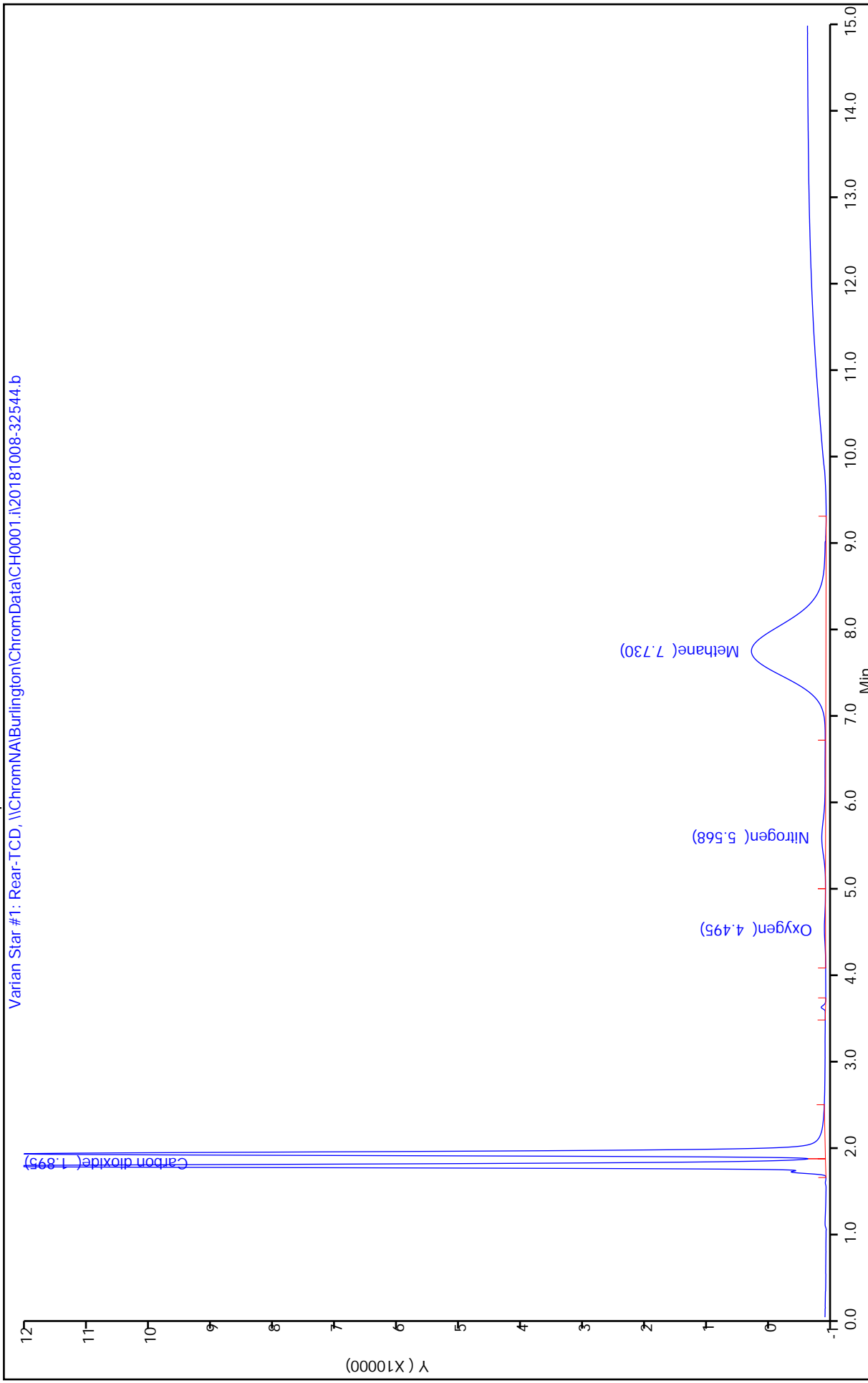
Method: EPA3C\_CH00001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-5f.d  
Injection Date: 09-Oct-2018 01:19:07 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5 Worklist Smp#: 20  
Client ID: KTSG-COMP-13 Dil. Factor: 5.1100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

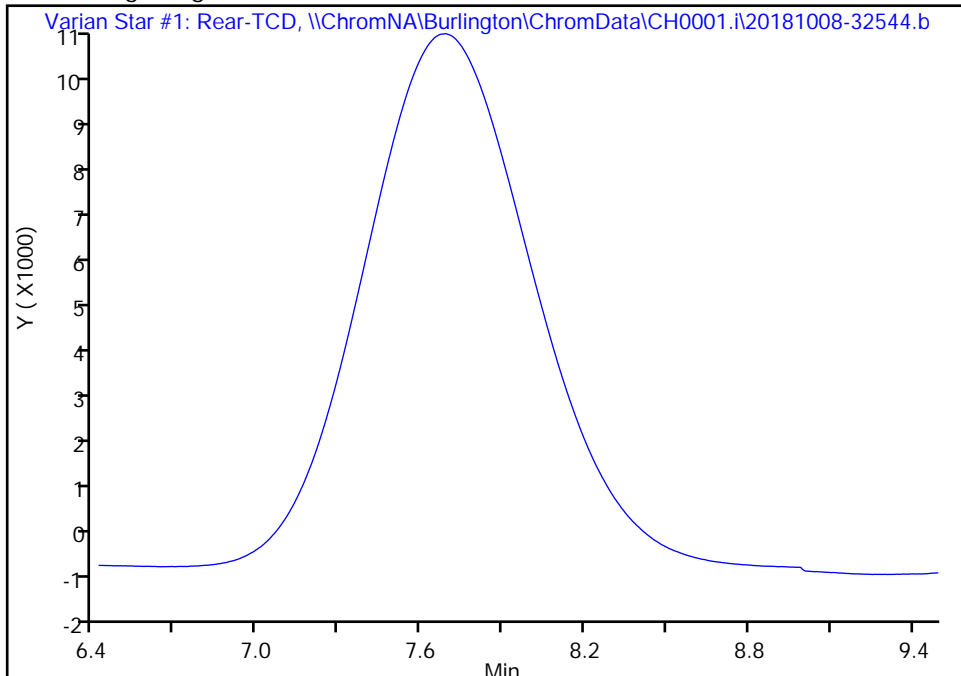
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Injection Date: 09-Oct-2018 01:02:13 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5  
Client ID: KTSG-COMP-13  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 19  
Purge Vol: 2.000 mL Dil. Factor: 5.1100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

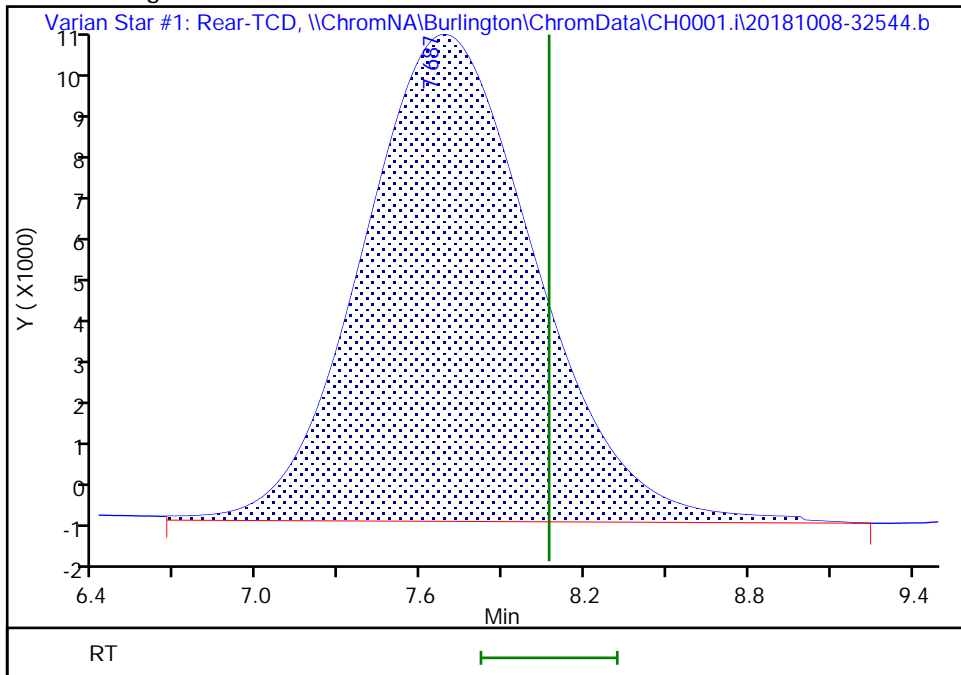
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 7.69  
Area: 467334  
Amount: 11.408769  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 11:36:16

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

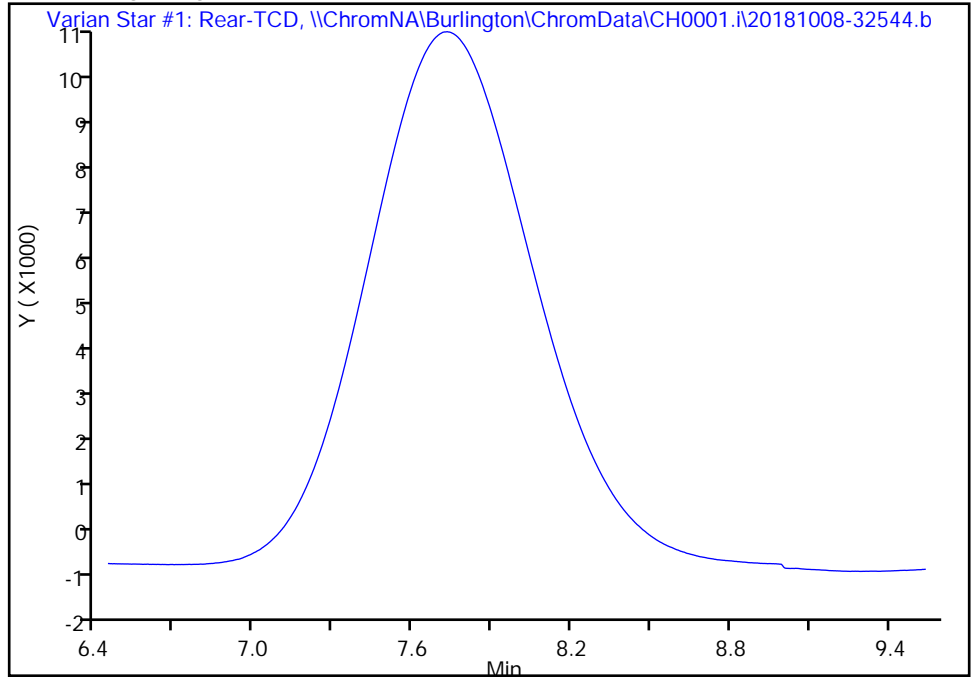
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Injection Date:	09-Oct-2018 01:19:07	Instrument ID:	CH0001.i		
Lims ID:	200-45504-A-5	Lab Sample ID:	200-45504-5		
Client ID:	KTSG-COMP-13				
Operator ID:	WRD	ALS Bottle#:	0	Worklist Smp#:	20
Purge Vol:	2.000 mL	Dil. Factor:	5.1100		
Method:	EPA3C_CH0001.i	Limit Group:	AI_3C_Limits		
Column:		Detector:	Varian Star #1: Rear-TCD		

4 Methane, CAS: 74-82-8

Signal: 1

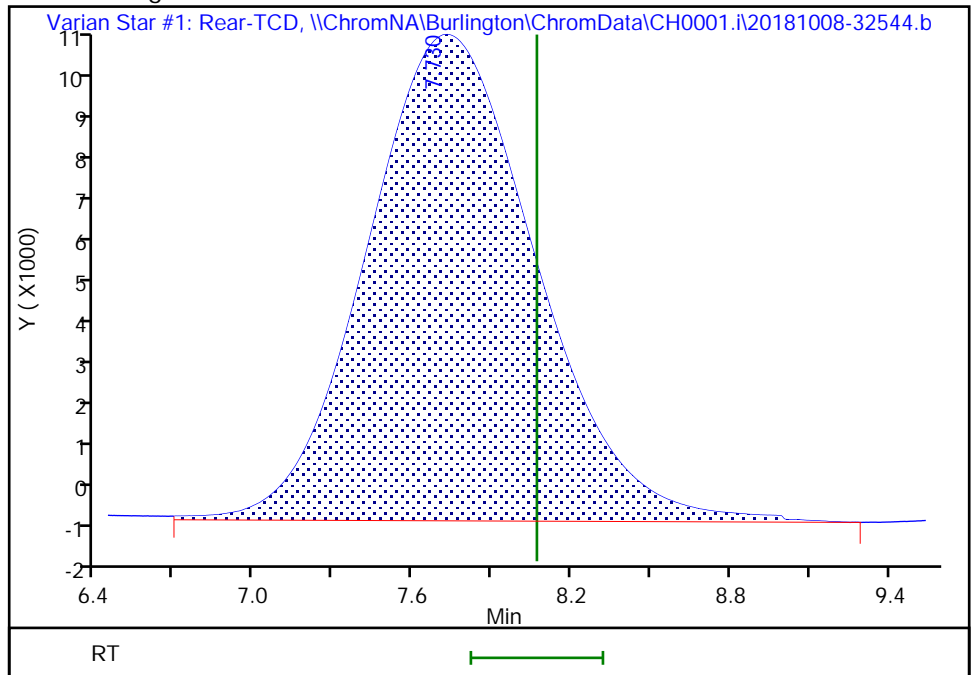
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 7.73  
Area: 472512  
Amount: 11.535177  
Amount Units: % v/v

Manual Integration Results



TestAmerica Burlington

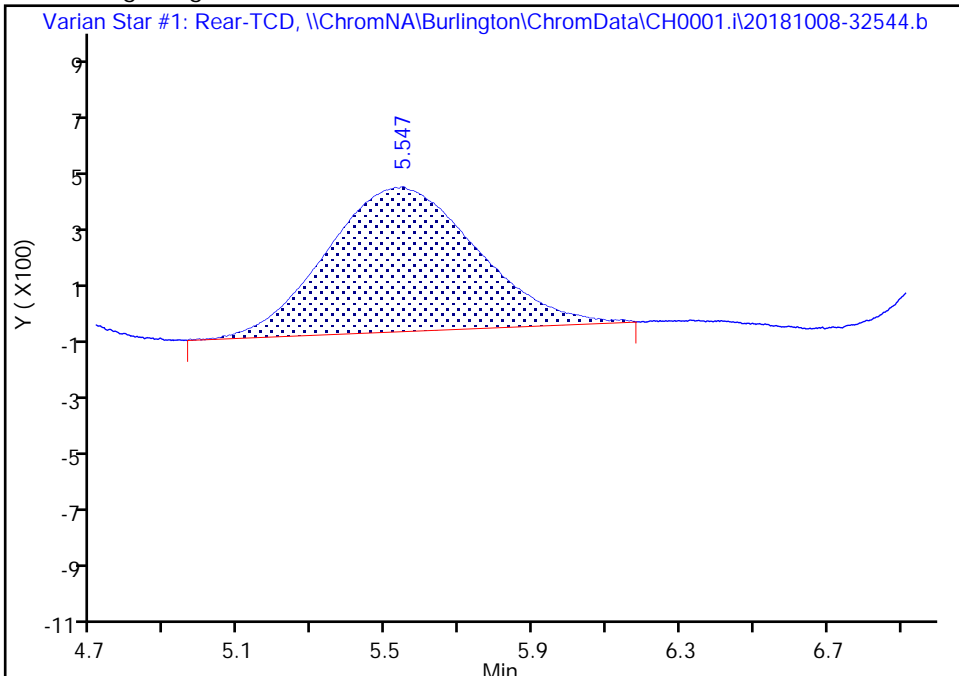
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Injection Date: 09-Oct-2018 01:02:13 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5  
Client ID: KTSG-COMP-13  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 19  
Purge Vol: 2.000 mL Dil. Factor: 5.1100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

Signal: 1

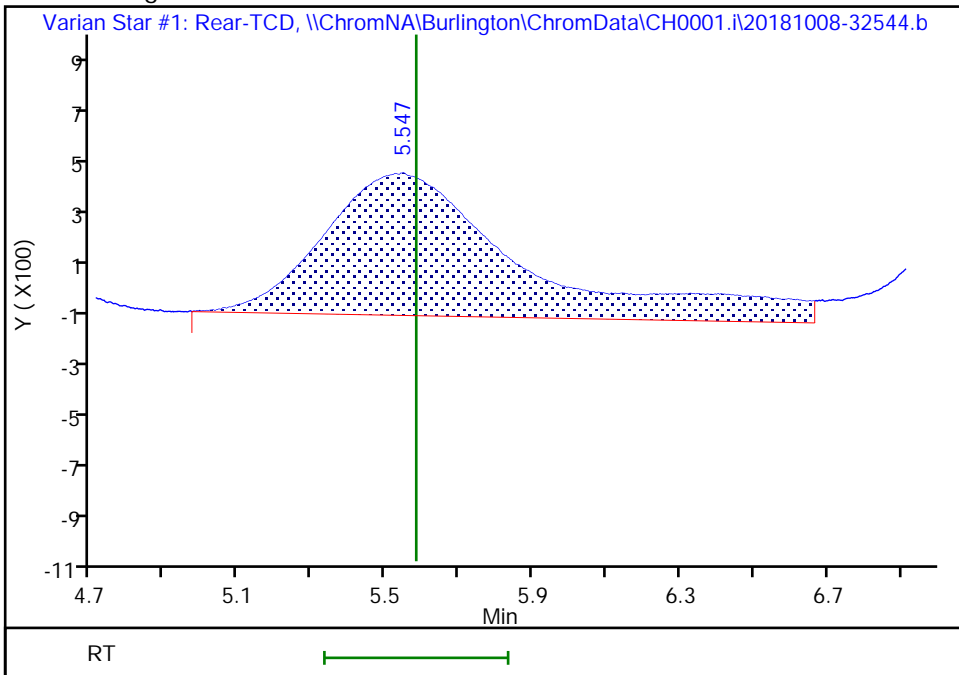
RT: 5.55  
Area: 14087  
Amount: 0.252318  
Amount Units: % v/v

Processing Integration Results



RT: 5.55  
Area: 20211  
Amount: 0.362007  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 11:36:23

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

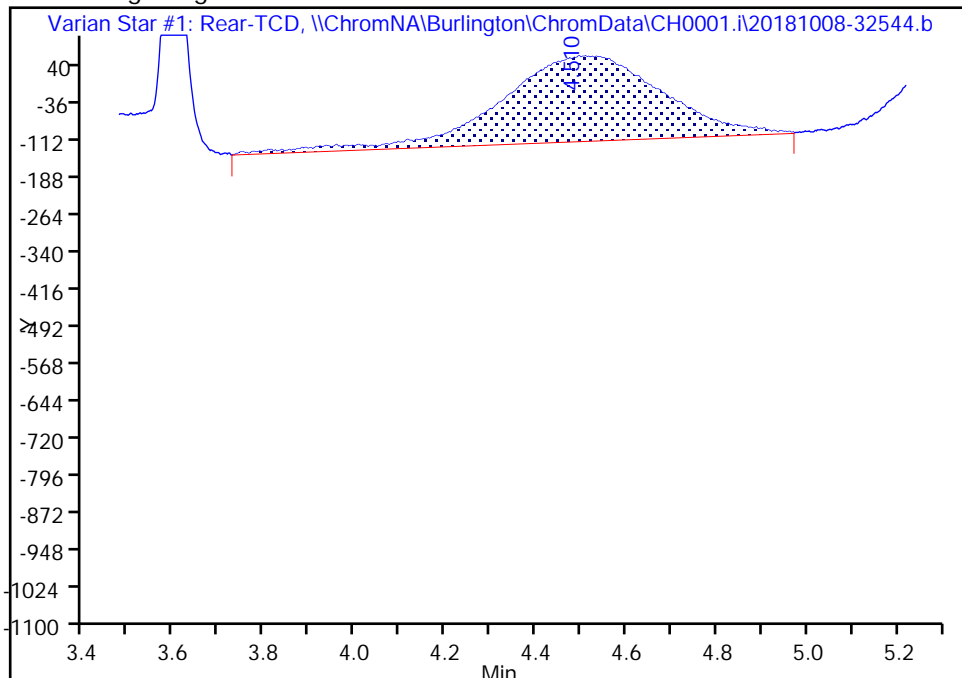
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Injection Date: 09-Oct-2018 01:19:07 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5  
Client ID: KTSG-COMP-13  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 20  
Purge Vol: 2.000 mL Dil. Factor: 5.1100  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

Signal: 1

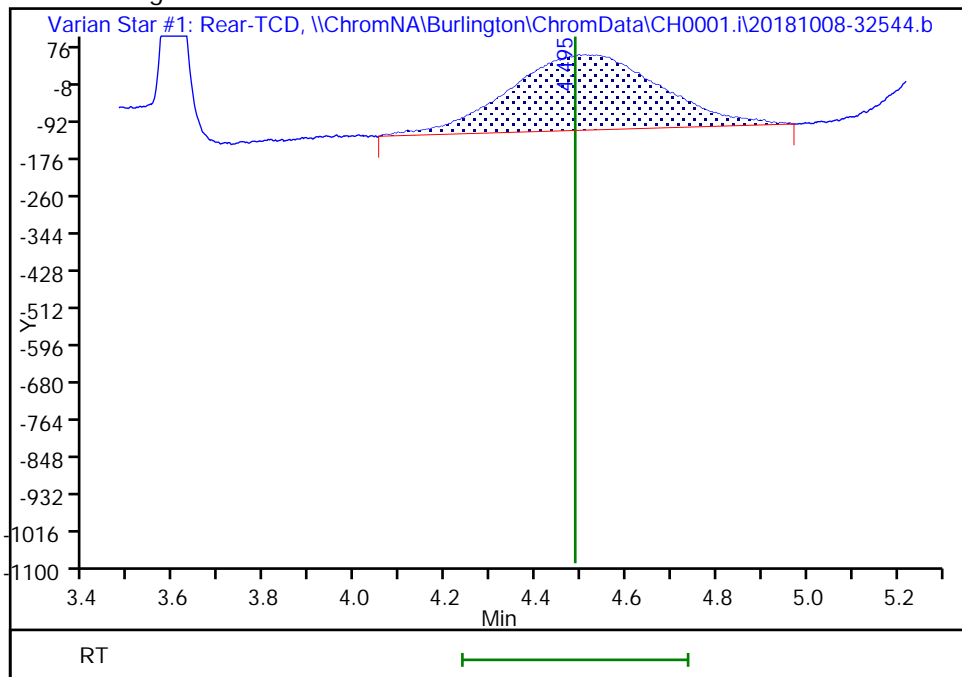
RT: 4.51  
Area: 4222  
Amount: 0.084047  
Amount Units: % v/v

Processing Integration Results



RT: 4.50  
Area: 3840  
Amount: 0.076443  
Amount Units: % v/v

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: KTSG-COMP-14 Lab Sample ID: 200-45504-6  
 Matrix: Air Lab File ID: 200-45504-a-6e.d-avg  
 Analysis Method: EPA 3C Date Collected: 09/27/2018 09:12  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/09/2018 02:09  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5.14  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: CTR-1 ID: 3.175 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135231 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	46		0.26	0.26
74-82-8	Methane	60		0.21	0.21
7727-37-9	Nitrogen	7.0		2.6	2.6
7782-44-7	Oxygen	1.9		0.26	0.26



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-6e.d  
 Lims ID: 200-45504-A-6  
 Client ID: KTSG-COMP-14  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 02:09:25 ALS Bottle#: 0 Worklist Smp#: 21  
 Purge Vol: 2.000 mL Dil. Factor: 5.1400  
 Sample Info: 200-45504-A-6e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 11:54:42 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:26:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.903	1.894	0.009	392565	8.84	
2 Oxygen	4.537	4.487	0.050	18191	0.3621	
3 Nitrogen	5.598	5.582	0.016	76027	1.36	
4 Methane	7.788	8.069	-0.281	473531	11.6	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-6f.d  
 Lims ID: 200-45504-A-6  
 Client ID: KTSG-COMP-14  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 02:25:29 ALS Bottle#: 0 Worklist Smp#: 22  
 Purge Vol: 2.000 mL Dil. Factor: 5.1400  
 Sample Info: 200-45504-A-6f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:26:21

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.907	1.894	0.013	394254	8.88	
2 Oxygen	4.543	4.487	0.056	18366	0.3656	
3 Nitrogen	5.613	5.582	0.031	76489	1.37	
4 Methane	7.807	8.069	-0.262	475085	11.6	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-6e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-6f-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	392565	394254	393409.5	0.21
Oxygen	18191	18366	18278.5	0.48
Nitrogen	76027	76489	76258	0.3
Methane	473531	475085	474308	0.16

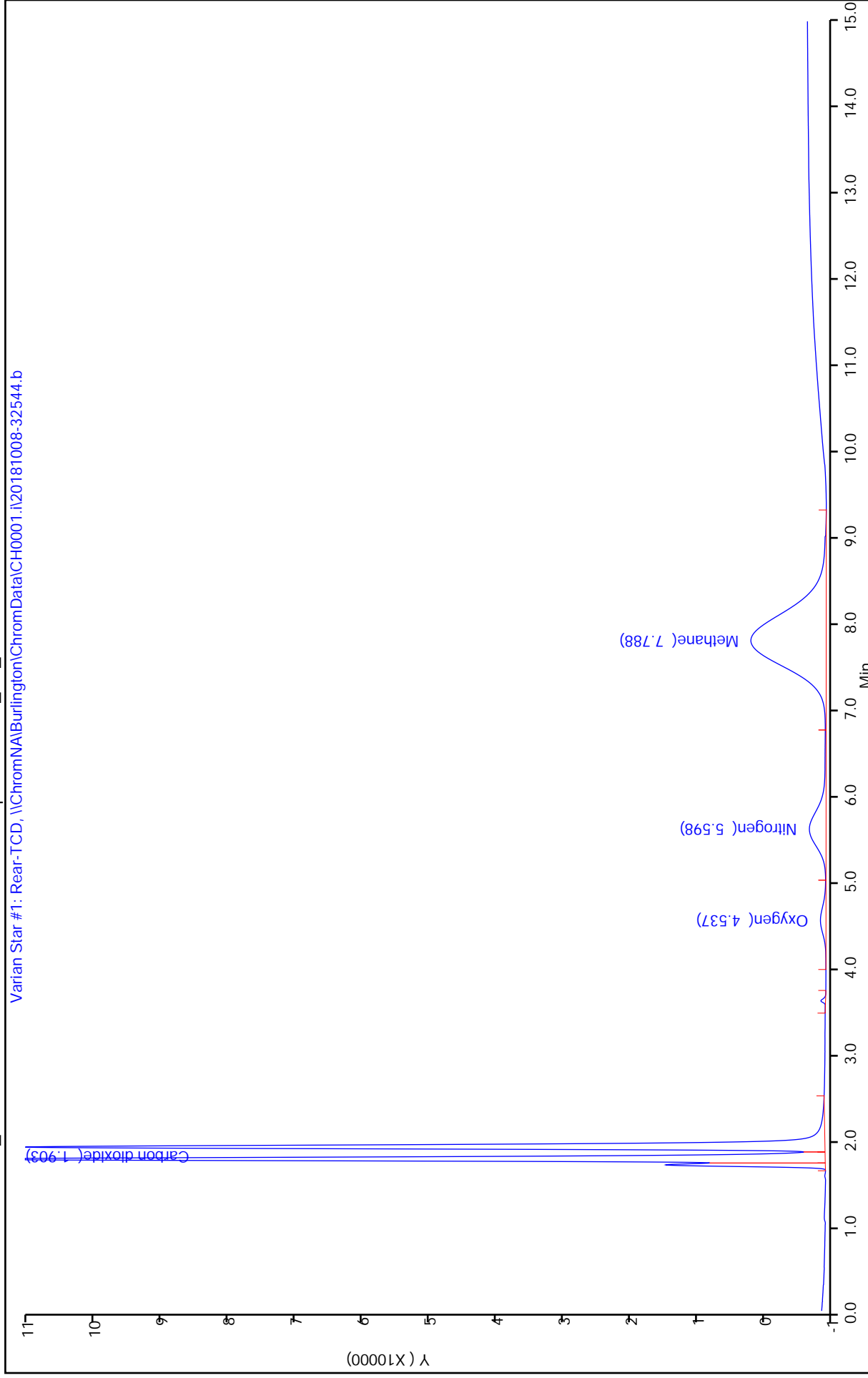
Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	8.84	8.88	8.86	0.21
Oxygen	0.36	0.37	0.36	0.48
Nitrogen	1.36	1.37	1.37	0.3
Methane	11.56	11.6	11.58	0.16

Report Date: 15-Oct-2018 11:54:58

Chrom Revision: 2.3 19-Jul-2018 15:14:50

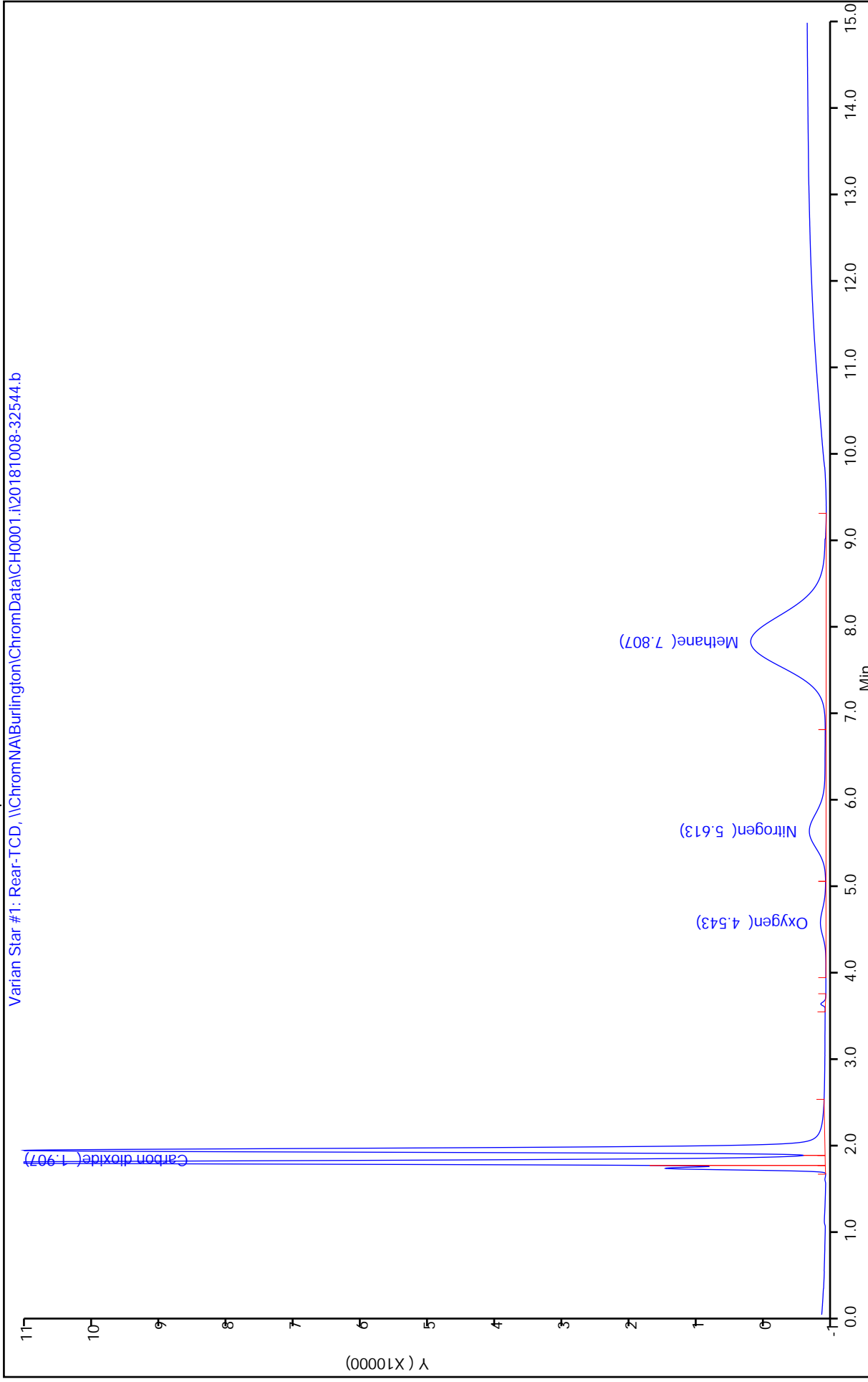
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-6e.d  
Injection Date: 09-Oct-2018 02:09:25 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6 Worklist Smp#: 21  
Client ID: KTSG-COMP-14 Dil. Factor: 5.1400 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-6f.d  
Injection Date: 09-Oct-2018 02:25:29 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6 Worklist Smp#: 22  
Client ID: KTSG-COMP-14 Dil. Factor: 5.1400 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

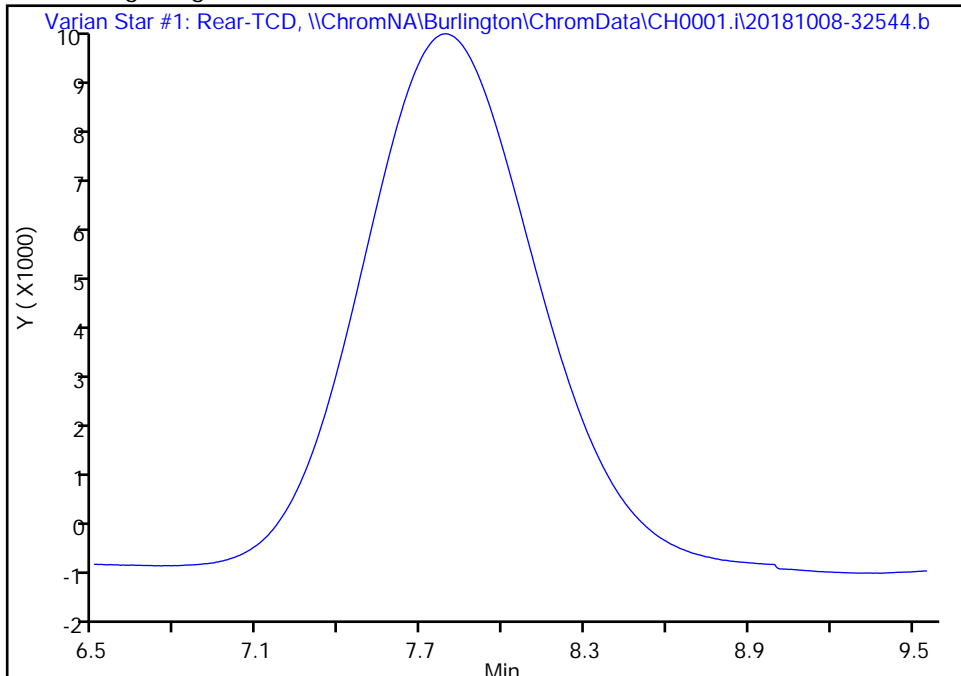
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Injection Date: 09-Oct-2018 02:09:25 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6  
Client ID: KTSG-COMP-14  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 21  
Purge Vol: 2.000 mL Dil. Factor: 5.1400  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

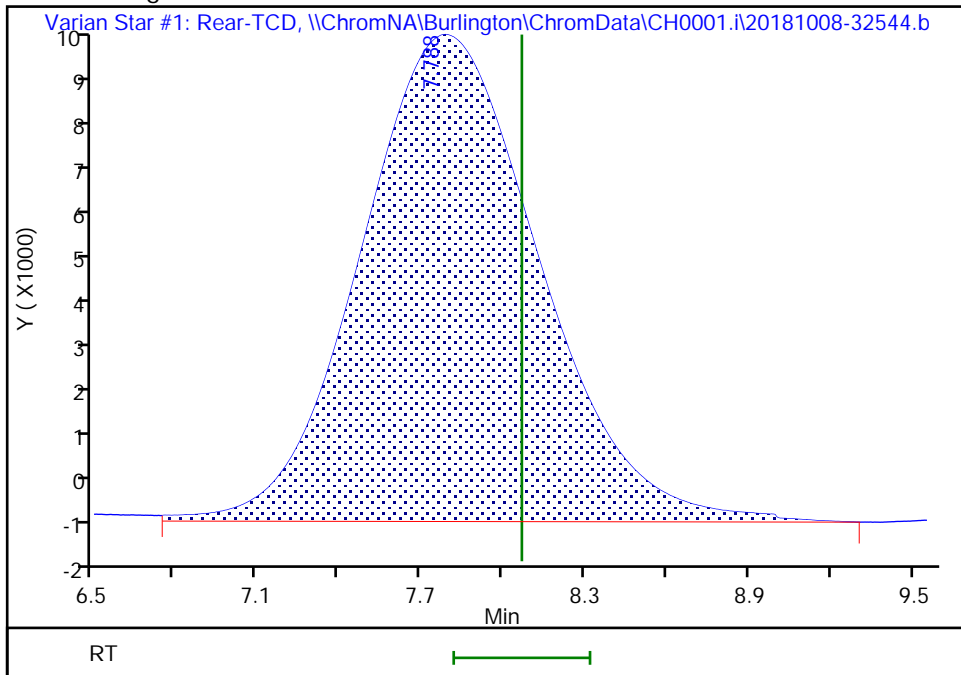
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 7.79  
Area: 473531  
Amount: 11.560053  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:26:10  
Audit Action: Assigned Compound ID

Audit Reason:  
Page 103 of 680

TestAmerica Burlington

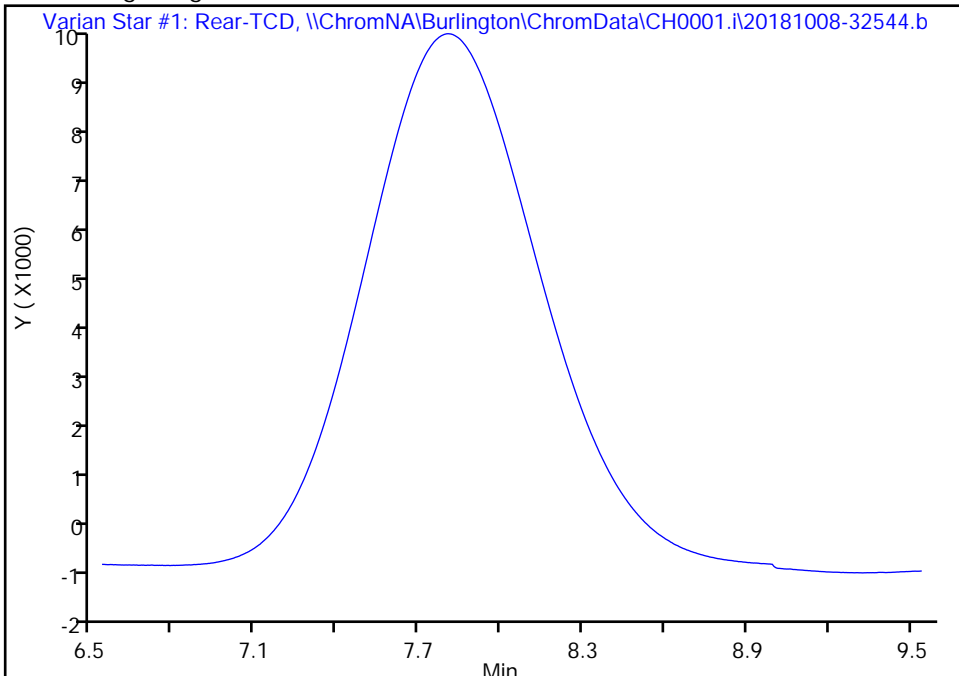
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Injection Date: 09-Oct-2018 02:25:29 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6  
Client ID: KTSG-COMP-14  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 22  
Purge Vol: 2.000 mL Dil. Factor: 5.1400  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

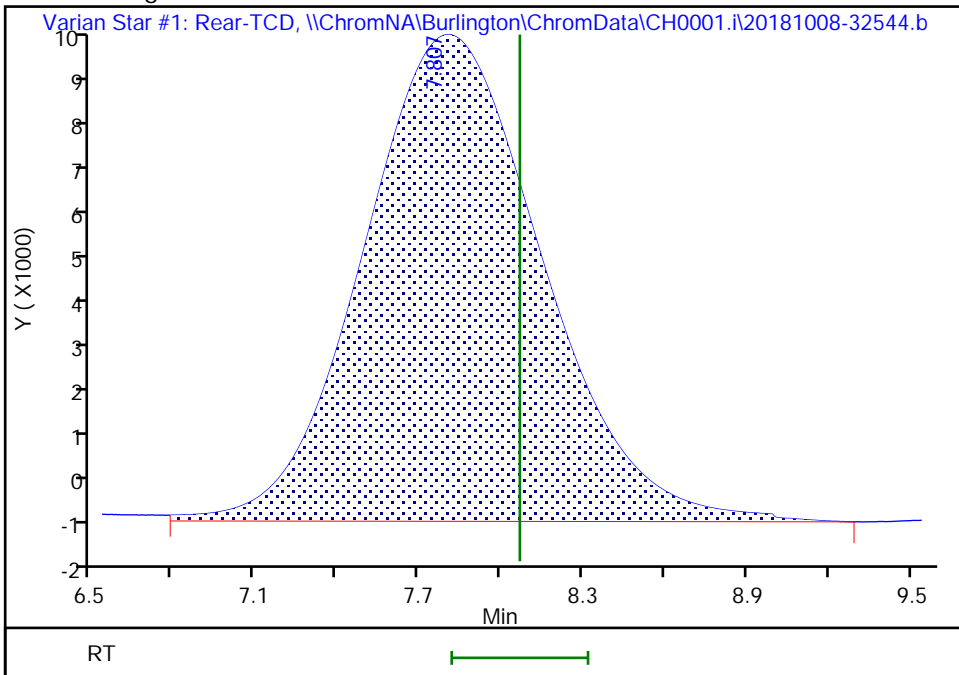
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.81  
Area: 475085  
Amount: 11.597990  
Amount Units: % v/v



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-15</u>	Lab Sample ID: <u>200-45504-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-7e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/27/2018 10:36</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 03:13</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.69</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	49		0.23	0.23
74-82-8	Methane	57		0.19	0.19
7727-37-9	Nitrogen	3.0		2.3	2.3
7782-44-7	Oxygen	0.29		0.23	0.23



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7e.d  
 Lims ID: 200-45504-A-7  
 Client ID: KTSG-COMP-15  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 03:13:39 ALS Bottle#: 0 Worklist Smp#: 23  
 Purge Vol: 2.000 mL Dil. Factor: 4.6900  
 Sample Info: 200-45504-A-7e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 12:02:20 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:26:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.887	1.894	-0.007	460539	10.4	
2 Oxygen	4.490	4.487	0.003	3174	0.0632	Ma
3 Nitrogen	5.523	5.582	-0.059	35244	0.6313	Ma
4 Methane	7.677	8.069	-0.392	498768	12.2	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7f.d  
 Lims ID: 200-45504-A-7  
 Client ID: KTSG-COMP-15  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 03:29:42 ALS Bottle#: 0 Worklist Smp#: 24  
 Purge Vol: 2.000 mL Dil. Factor: 4.6900  
 Sample Info: 200-45504-A-7f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 12:02:20 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:26:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.893	1.894	-0.001	461312	10.4	
2 Oxygen	4.495	4.487	0.008	3081	0.0613	
3 Nitrogen	5.550	5.582	-0.032	35088	0.6285	
4 Methane	7.717	8.069	-0.352	499555	12.2	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-7e-134974-ai\_3c\_limits-1.txt

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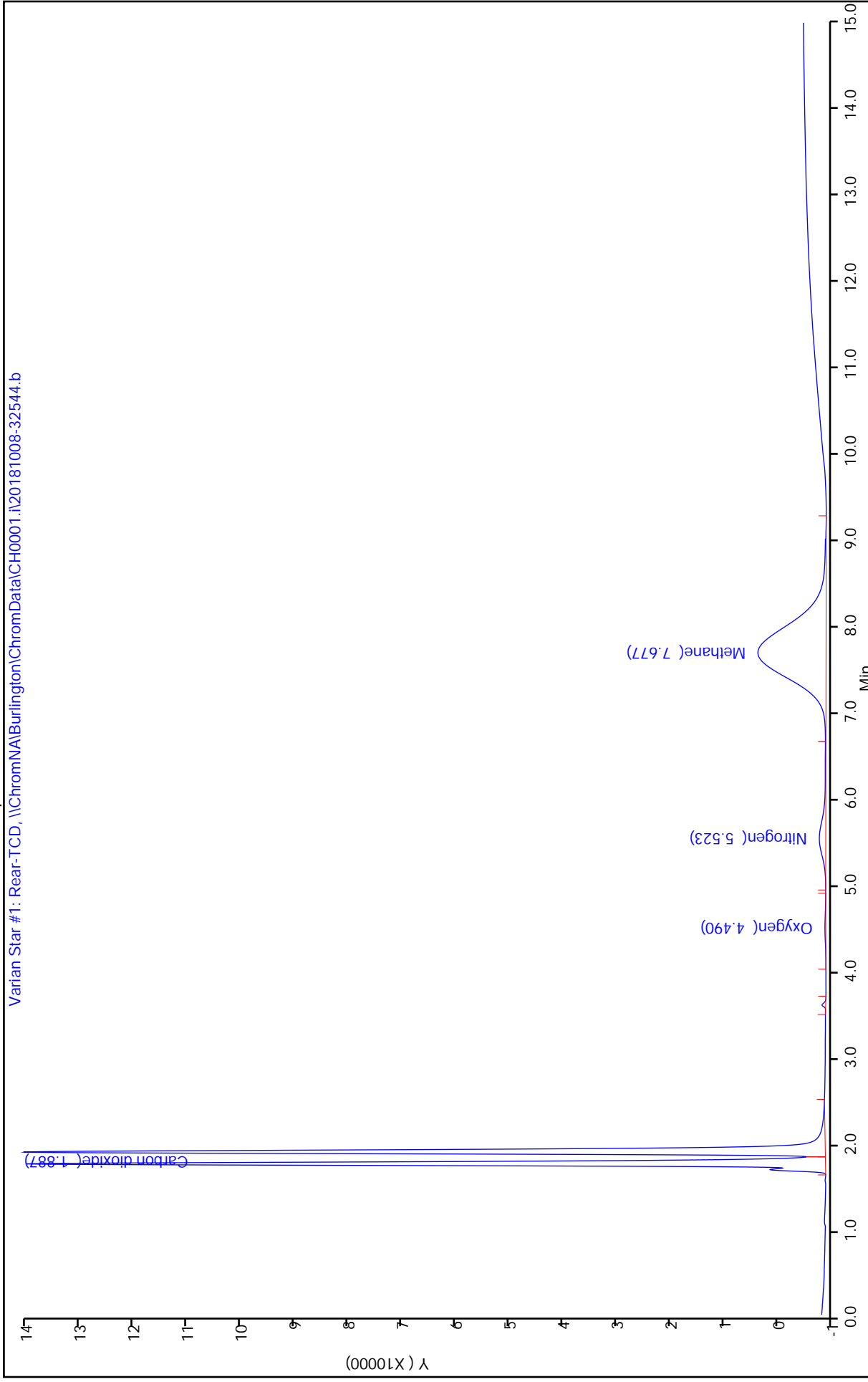
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	460539	461312	460925.5	0.08
Oxygen	3174	3081	3127.5	1.49
Nitrogen	35244	35088	35166	0.22
Methane	498768	499555	499161.5	0.08

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	10.38	10.39	10.38	0.08
Oxygen	0.06	0.06	0.06	1.49
Nitrogen	0.63	0.63	0.63	0.22
Methane	12.18	12.2	12.19	0.08

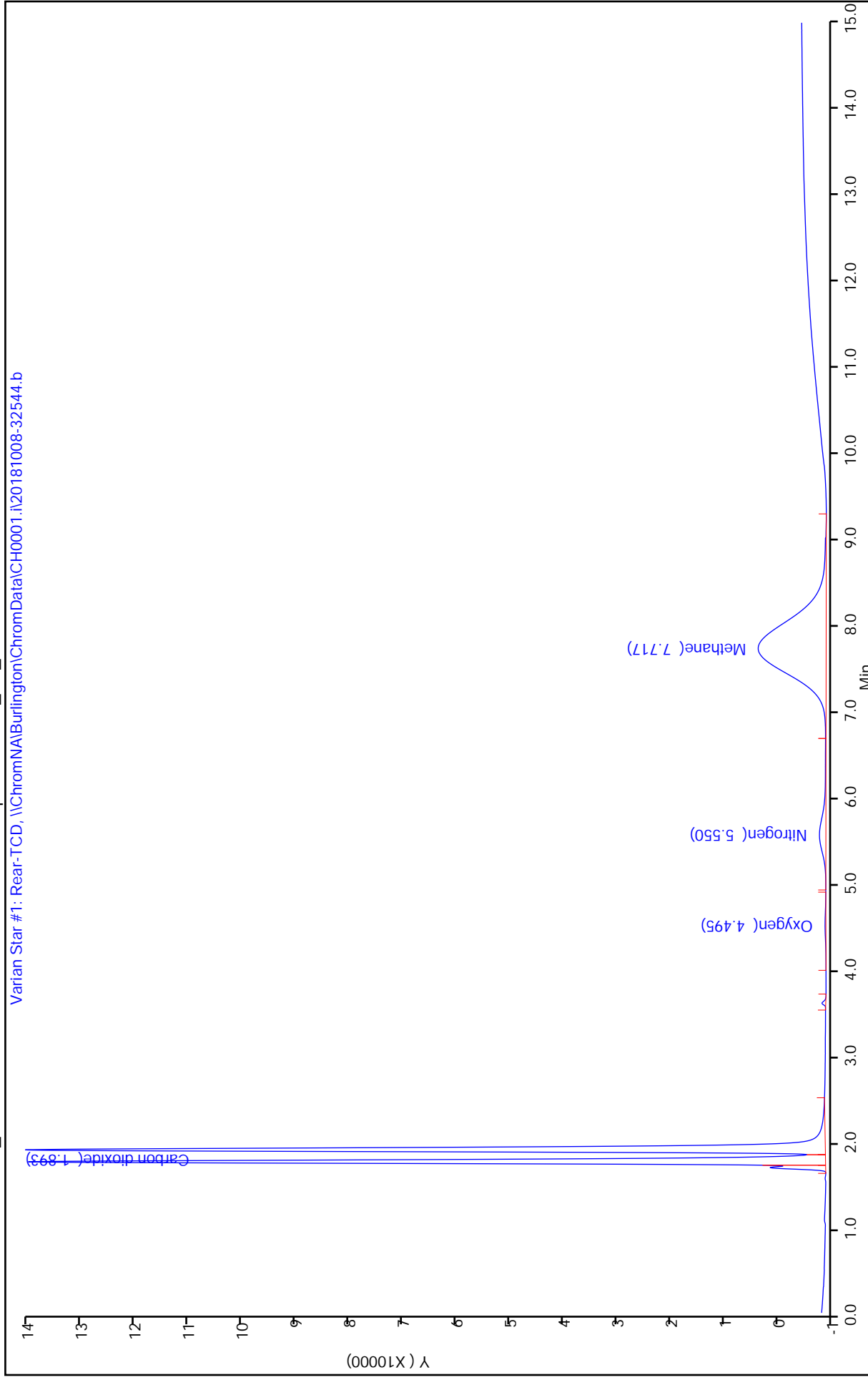
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7e.d  
Injection Date: 09-Oct-2018 03:13:39 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7 Worklist Smp#: 23  
Client ID: KTSG-COMP-15 Dil. Factor: 4.6900 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7f.d  
Injection Date: 09-Oct-2018 03:29:42 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7 Worklist Smp#: 24  
Client ID: KTSG-COMP-15 Dil. Factor: 4.6900 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

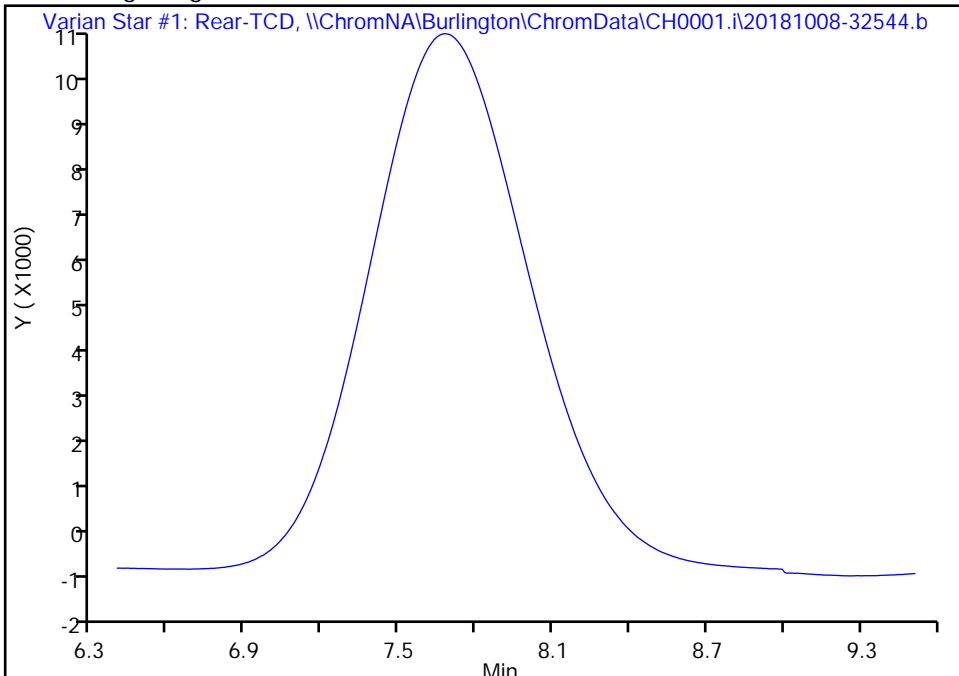
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Injection Date: 09-Oct-2018 03:13:39 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 23  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

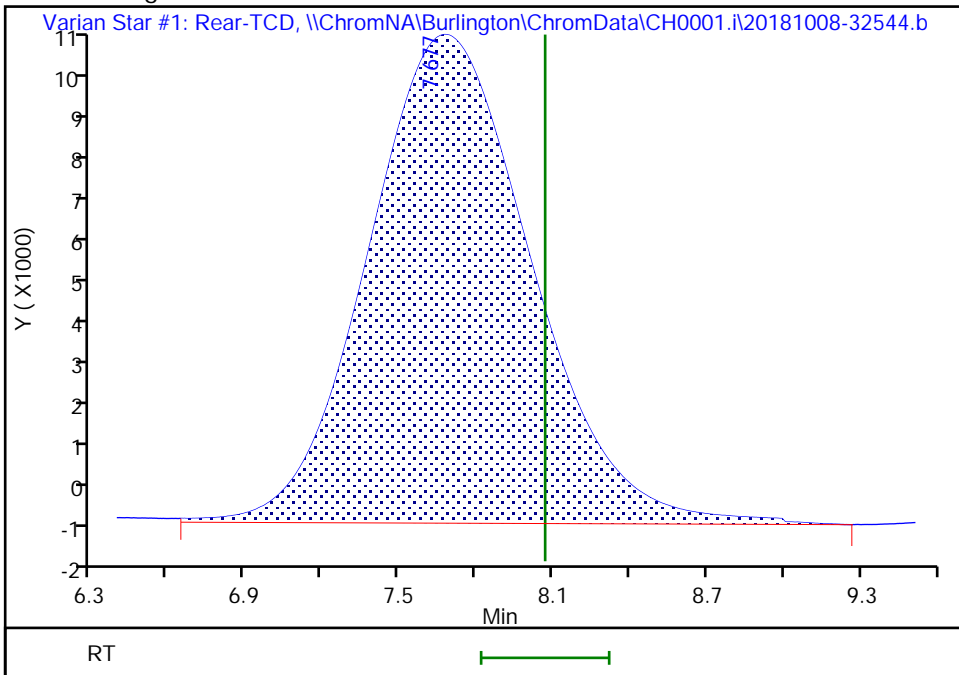
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 498768  
Amount: 12.176150  
Amount Units: % v/v



Reviewer: desjardinsb, 15-Oct-2018 12:01:58

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

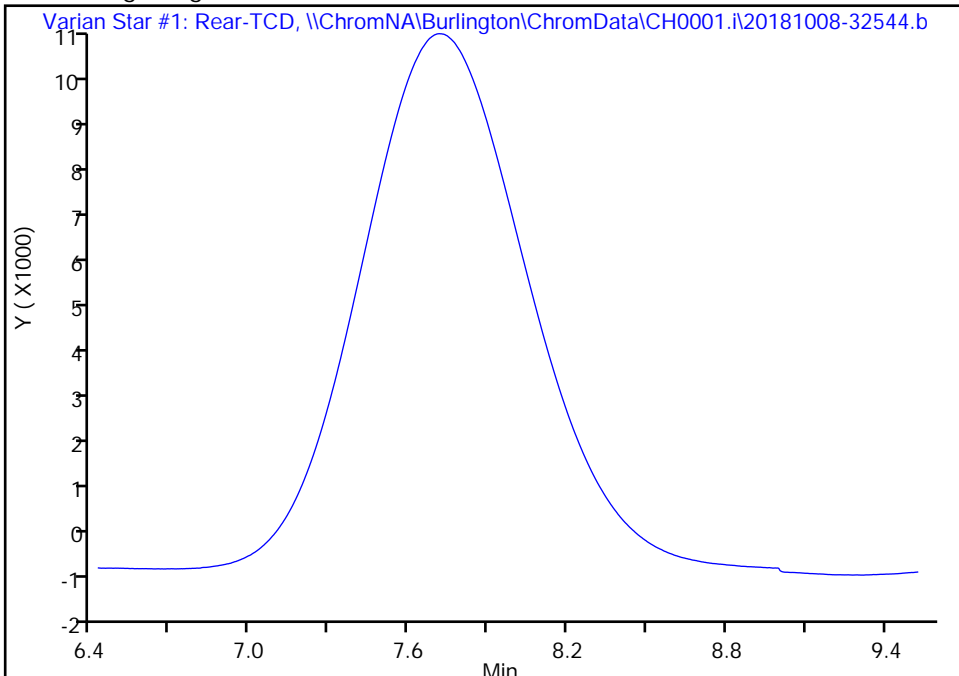
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7f.d  
Injection Date: 09-Oct-2018 03:29:42 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 24  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

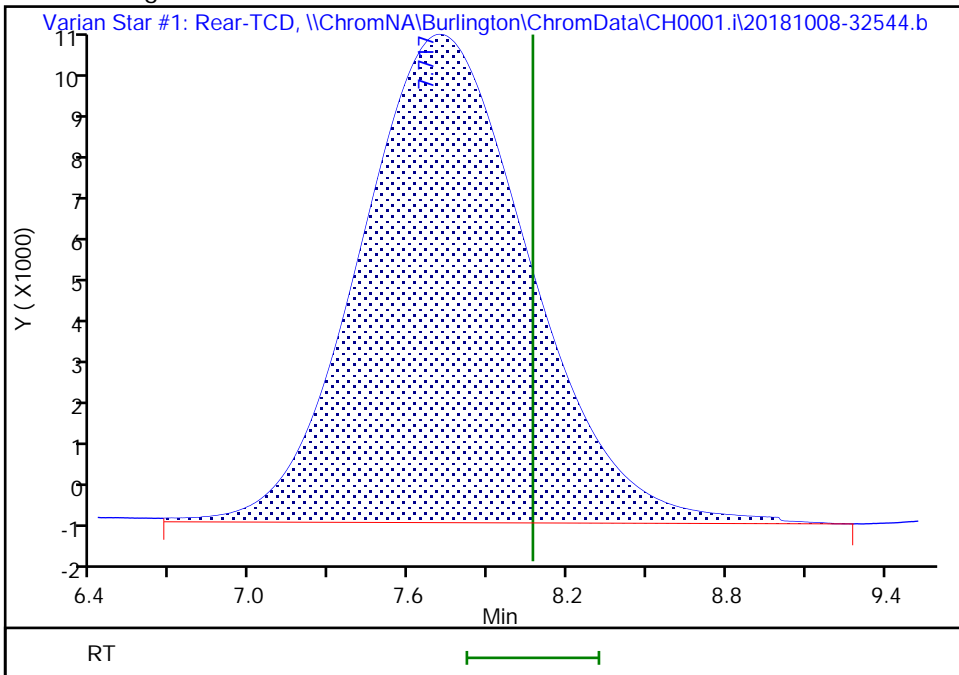
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.72  
Area: 499555  
Amount: 12.195363  
Amount Units: % v/v



TestAmerica Burlington

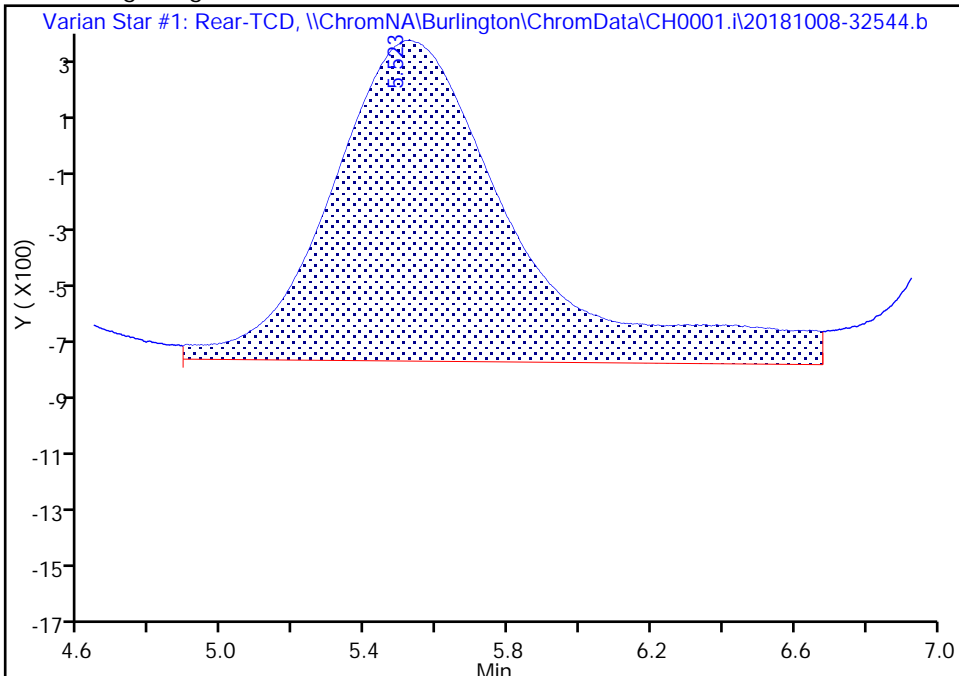
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7e.d  
Injection Date: 09-Oct-2018 03:13:39 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 23  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

Signal: 1

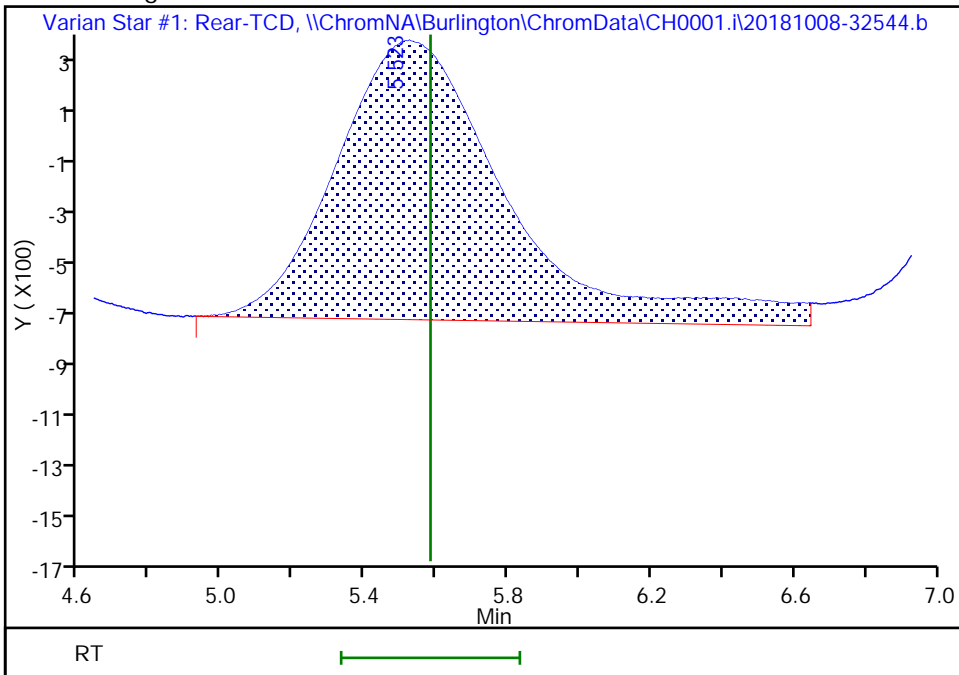
RT: 5.52  
Area: 39554  
Amount: 0.708467  
Amount Units: % v/v

Processing Integration Results



RT: 5.52  
Area: 35244  
Amount: 0.631269  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 12:01:53

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak



TestAmerica Burlington

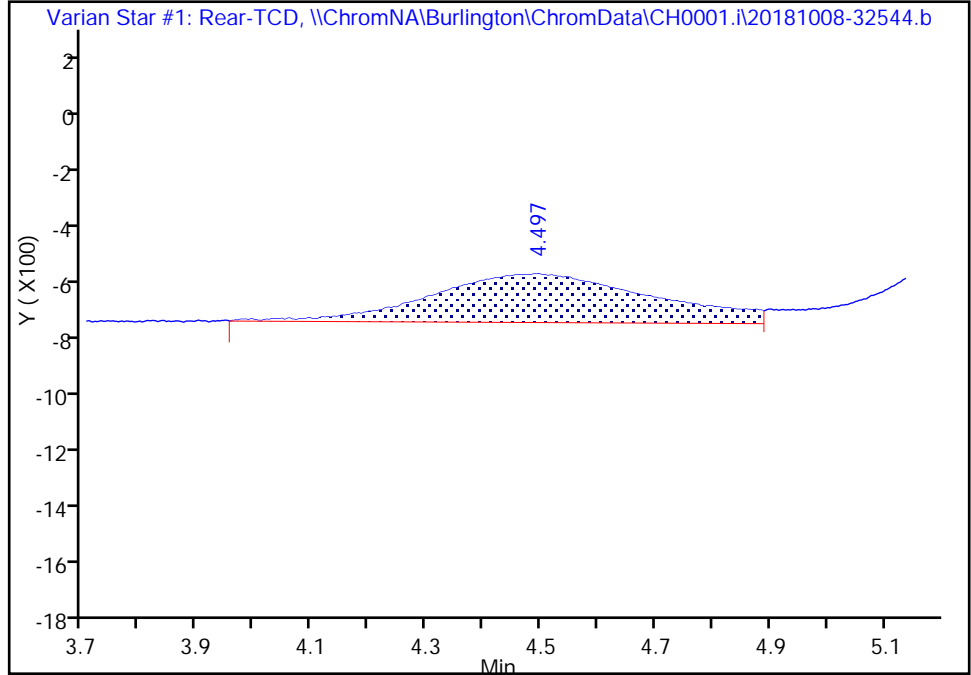
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-7e.d  
Injection Date: 09-Oct-2018 03:13:39 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 23  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

Signal: 1

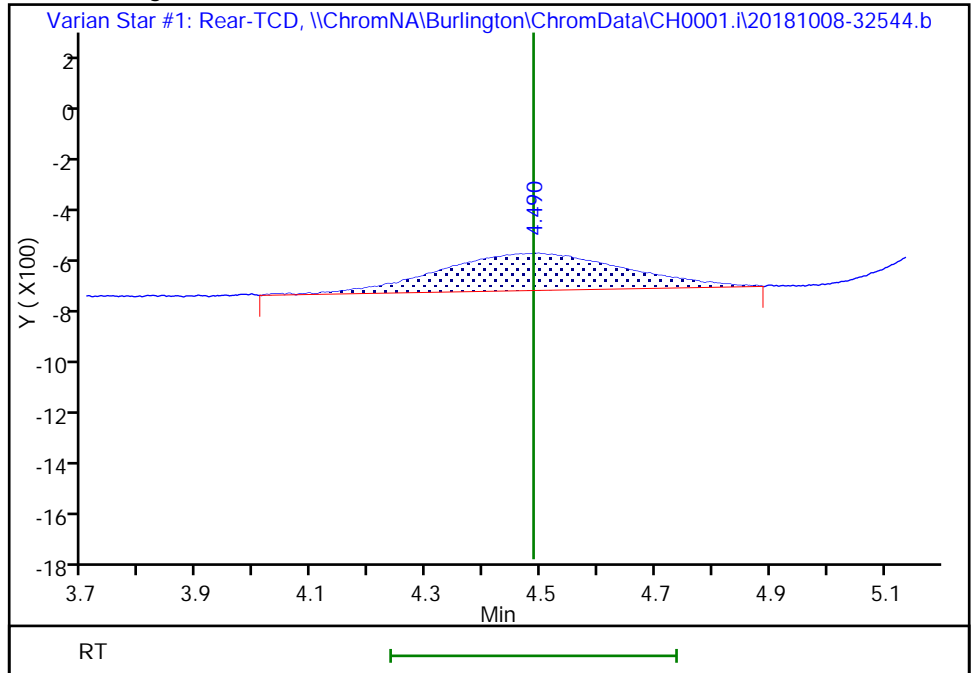
RT: 4.50  
Area: 4447  
Amount: 0.088526  
Amount Units: % v/v

Processing Integration Results



RT: 4.49  
Area: 3174  
Amount: 0.063185  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 12:01:31

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-16</u>	Lab Sample ID: <u>200-45504-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-8e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/27/2018 11:50</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 04:17</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5.62</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	48		0.28	0.28
74-82-8	Methane	52		0.22	0.22
7727-37-9	Nitrogen	6.9		2.8	2.8
7782-44-7	Oxygen	0.48		0.28	0.28

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8e.d  
 Lims ID: 200-45504-A-8  
 Client ID: KTSG-COMP-16  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 04:17:53 ALS Bottle#: 0 Worklist Smp#: 25  
 Purge Vol: 2.000 mL Dil. Factor: 5.6200  
 Sample Info: 200-45504-A-8e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 12:05:21 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:26:52

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.905	1.894	0.011	378092	8.52	
2 Oxygen	4.528	4.487	0.041	4341	0.0864	Ma
3 Nitrogen	5.602	5.582	0.020	68007	1.22	Ma
4 Methane	7.795	8.069	-0.274	376538	9.19	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8f.d  
 Lims ID: 200-45504-A-8  
 Client ID: KTSG-COMP-16  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 04:33:54 ALS Bottle#: 0 Worklist Smp#: 26  
 Purge Vol: 2.000 mL Dil. Factor: 5.6200  
 Sample Info: 200-45504-A-8f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 12:05:21 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:27:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.907	1.894	0.013	380067	8.56	
2 Oxygen	4.550	4.487	0.063	4299	0.0856	
3 Nitrogen	5.615	5.582	0.033	69651	1.25	
4 Methane	7.810	8.069	-0.259	379407	9.26	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-8e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-8f-134974-ai\_3c\_limits-1.txt

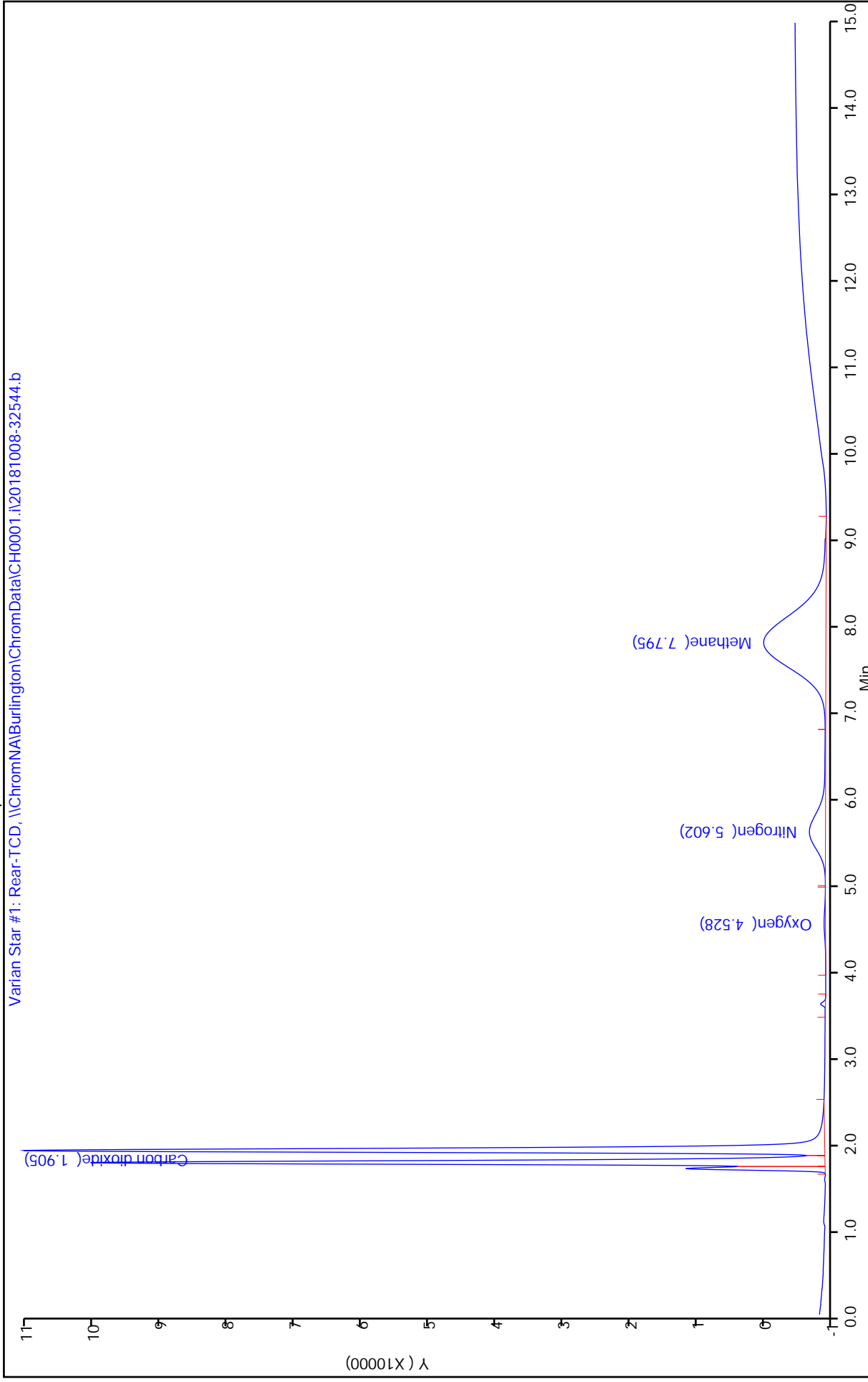
Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	378092	380067	379079.5	0.26
Oxygen	4341	4299	4320	0.49
Nitrogen	68007	69651	68829	1.19
Methane	376538	379407	377972.5	0.38

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	8.52	8.56	8.54	0.26
Oxygen	0.09	0.09	0.09	0.49
Nitrogen	1.22	1.25	1.23	1.19
Methane	9.19	9.26	9.23	0.38

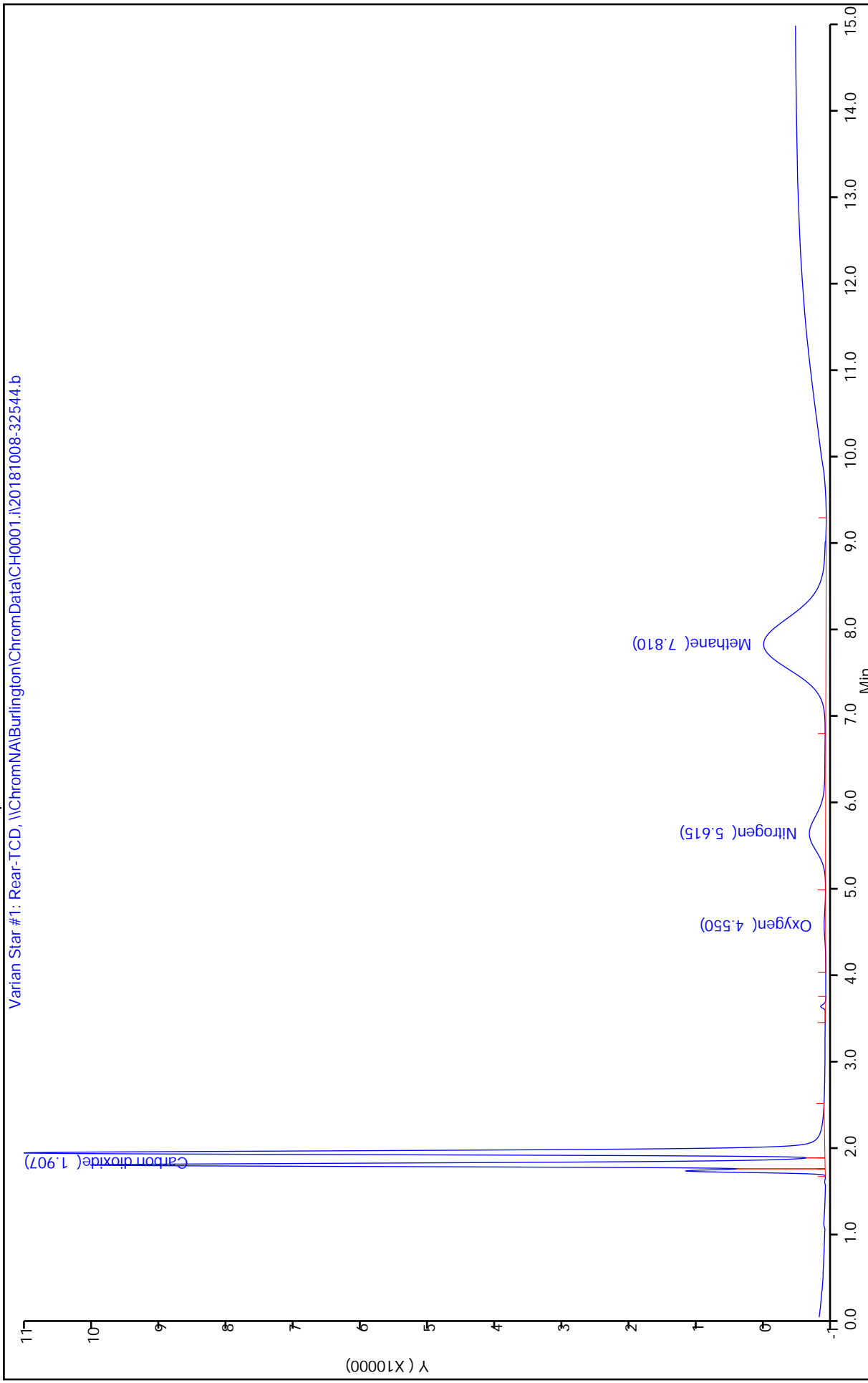
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8e.d  
Injection Date: 09-Oct-2018 04:17:53 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8 Worklist Smp#: 25  
Client ID: KTSG-COMP-16 Dil. Factor: 5.6200 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH00001.i



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8f.d  
Injection Date: 09-Oct-2018 04:33:54 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8 Worklist Smp#: 26  
Client ID: KTSG-COMP-16 Dil. Factor: 5.6200 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



TestAmerica Burlington

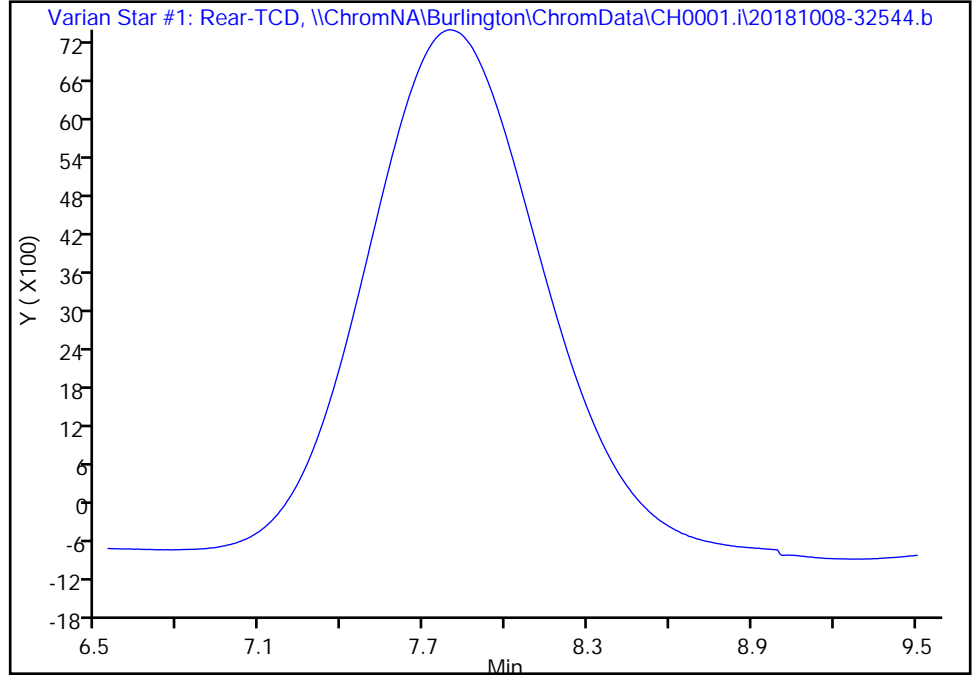
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Injection Date: 09-Oct-2018 04:17:53 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 25  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

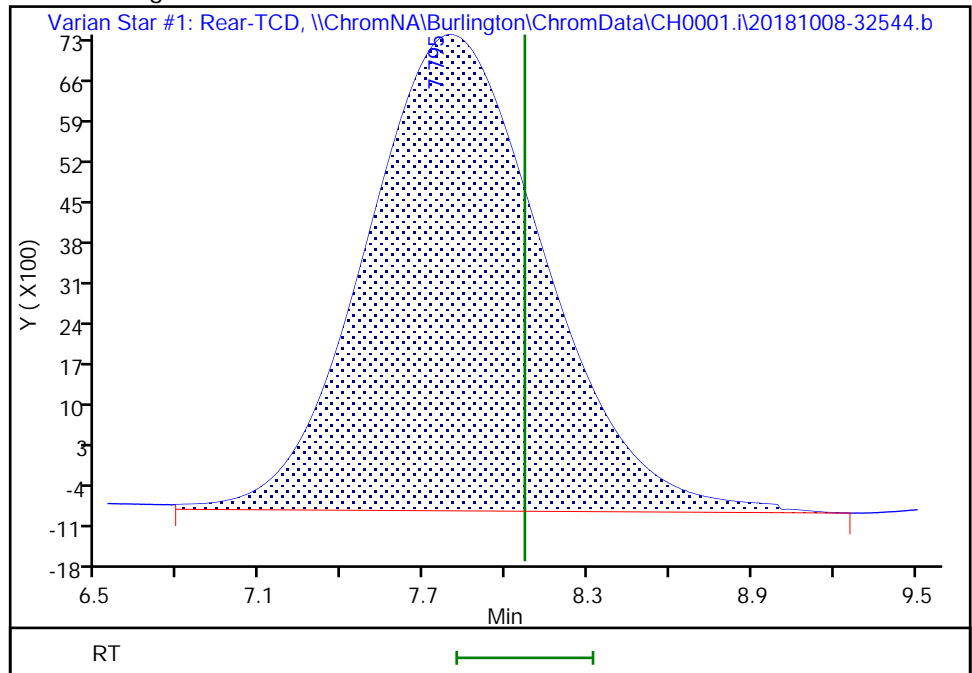
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.80  
Area: 376538  
Amount: 9.192216  
Amount Units: % v/v



Reviewer: desjardinsb, 15-Oct-2018 12:05:12

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak



TestAmerica Burlington

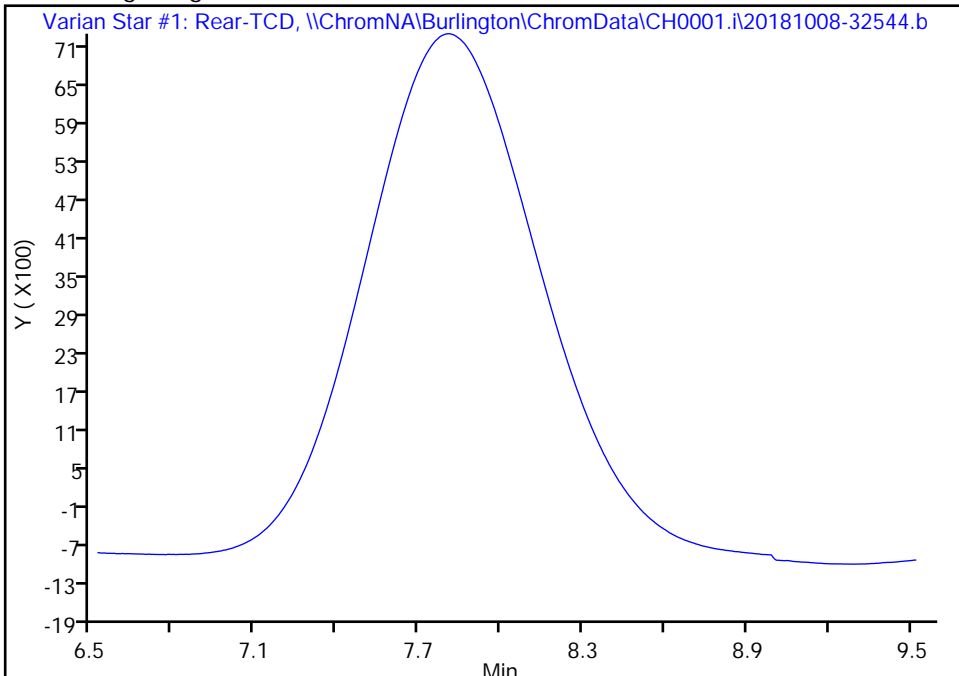
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8f.d  
Injection Date: 09-Oct-2018 04:33:54 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 26  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

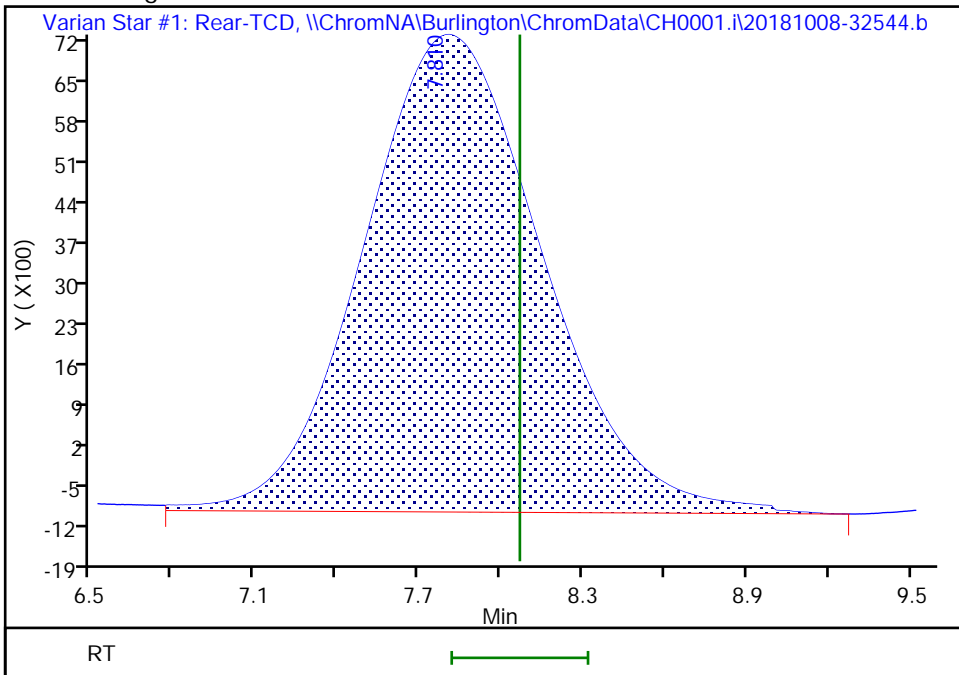
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.81  
Area: 379407  
Amount: 9.262255  
Amount Units: % v/v



TestAmerica Burlington

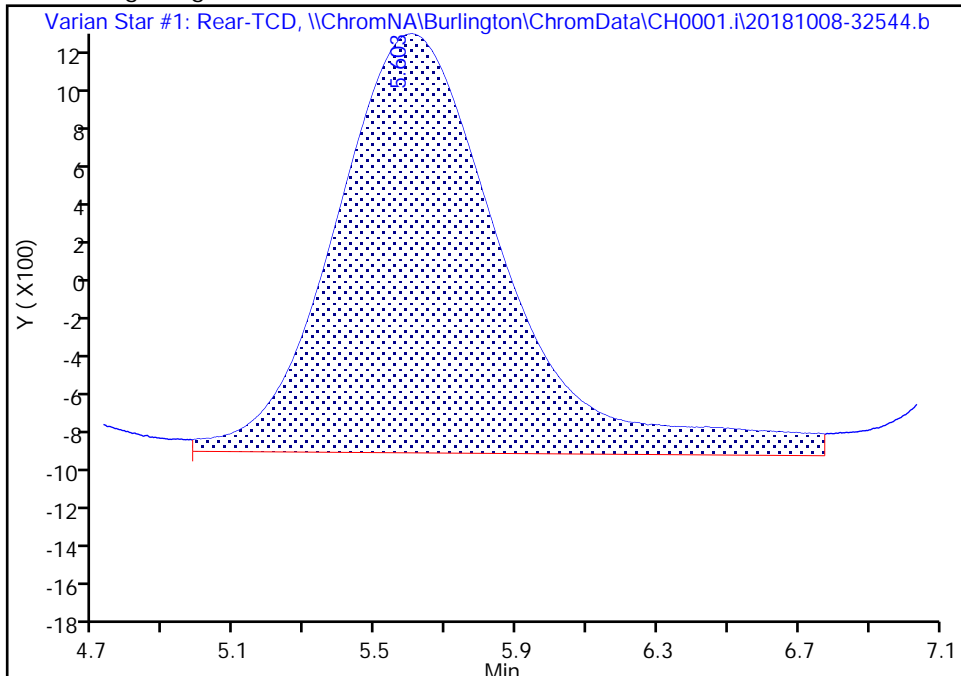
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8e.d  
Injection Date: 09-Oct-2018 04:17:53 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 25  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

Signal: 1

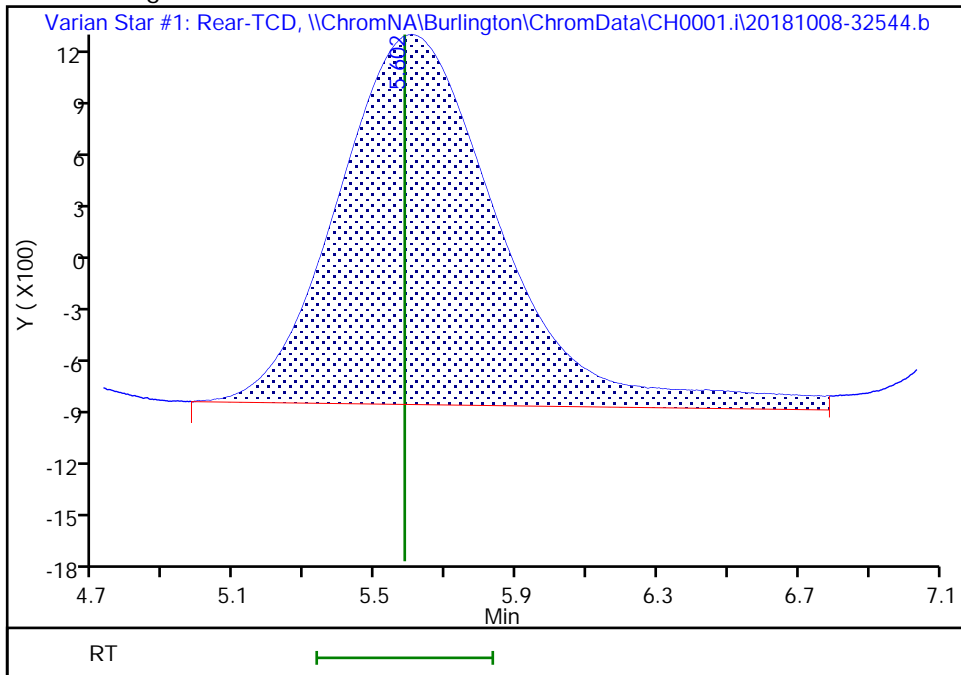
RT: 5.60  
Area: 73074  
Amount: 1.308857  
Amount Units: % v/v

Processing Integration Results



RT: 5.60  
Area: 68007  
Amount: 1.218100  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 12:05:07

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

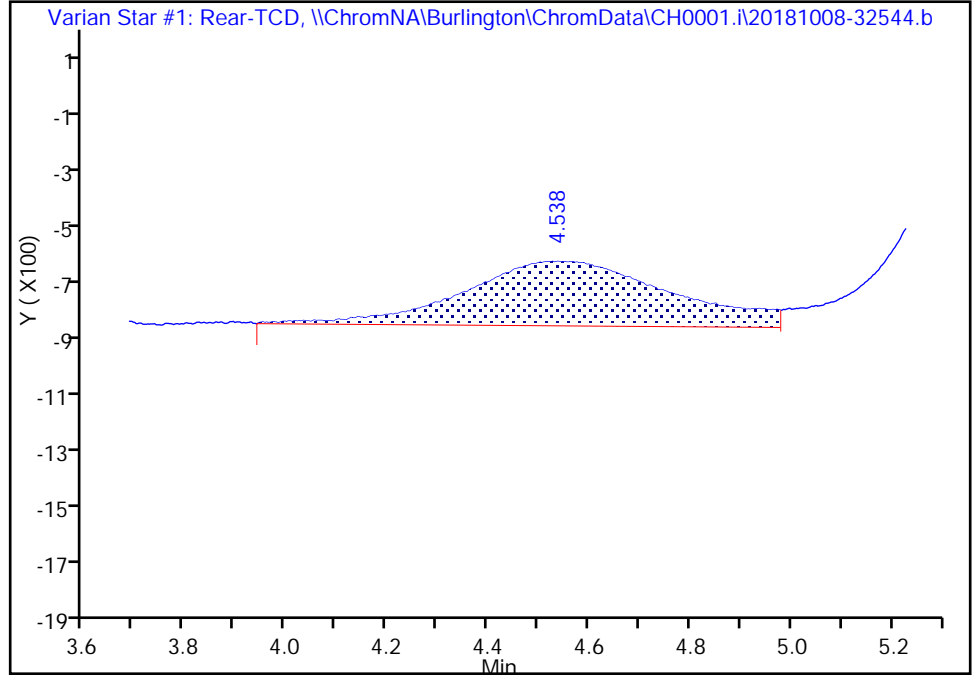
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-8e.d  
Injection Date: 09-Oct-2018 04:17:53 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 25  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

Signal: 1

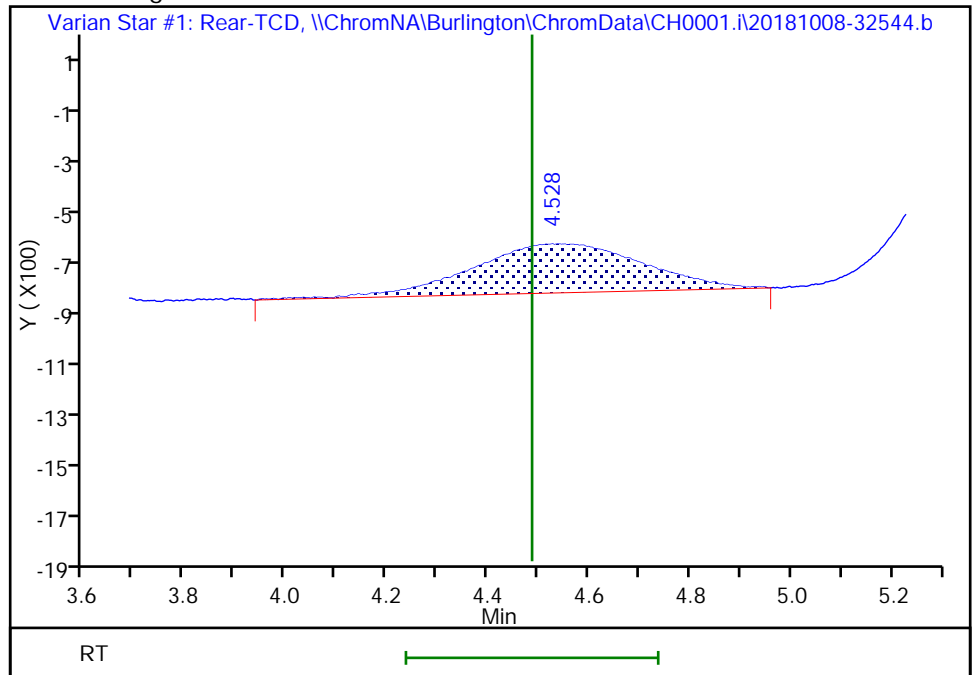
RT: 4.54  
Area: 6275  
Amount: 0.124916  
Amount Units: % v/v

Processing Integration Results



RT: 4.53  
Area: 4341  
Amount: 0.086416  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 12:05:01

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-17</u>	Lab Sample ID: <u>200-45504-9</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-9e.d-avg</u>
Analysis Method: <u>EPA 3C</u>	Date Collected: <u>09/27/2018 13:06</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 05:22</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.8</u>
Soil Extract Vol.: _____	GC Column: <u>CTR-1</u> ID: <u>3.175 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135231</u>	Units: <u>% v/v</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	47		0.24	0.24
74-82-8	Methane	48		0.19	0.19
7727-37-9	Nitrogen	9.3		2.4	2.4
7782-44-7	Oxygen	0.67		0.24	0.24

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-9e.d  
 Lims ID: 200-45504-A-9  
 Client ID: KTSG-COMP-17  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 05:22:05 ALS Bottle#: 0 Worklist Smp#: 27  
 Purge Vol: 2.000 mL Dil. Factor: 4.8000  
 Sample Info: 200-45504-A-9e  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:27:15

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.887	1.894	-0.007	431468	9.72	
2 Oxygen	4.488	4.487	0.001	7088	0.1411	
3 Nitrogen	5.518	5.582	-0.064	108151	1.94	
4 Methane	7.677	8.069	-0.392	410512	10.0	a

QC Flag Legend

Review Flags

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-9f.d  
 Lims ID: 200-45504-A-9  
 Client ID: KTSG-COMP-17  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 05:38:07 ALS Bottle#: 0 Worklist Smp#: 28  
 Purge Vol: 2.000 mL Dil. Factor: 4.8000  
 Sample Info: 200-45504-A-9f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:27:24

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.892	1.894	-0.002	436114	9.83	
2 Oxygen	4.488	4.487	0.001	6890	0.1372	
3 Nitrogen	5.543	5.582	-0.039	108150	1.94	
4 Methane	7.713	8.069	-0.356	413220	10.1	a

QC Flag Legend

Review Flags

a - User Assigned ID

Processing 3C data for files:

z:\ch0001-3hutch\200-45504-a-9e-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\200-45504-a-9f-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	431468	436114	433791	0.54
Oxygen	7088	6890	6989	1.42
Nitrogen	108151	108150	108150.5	0
Methane	410512	413220	411866	0.33

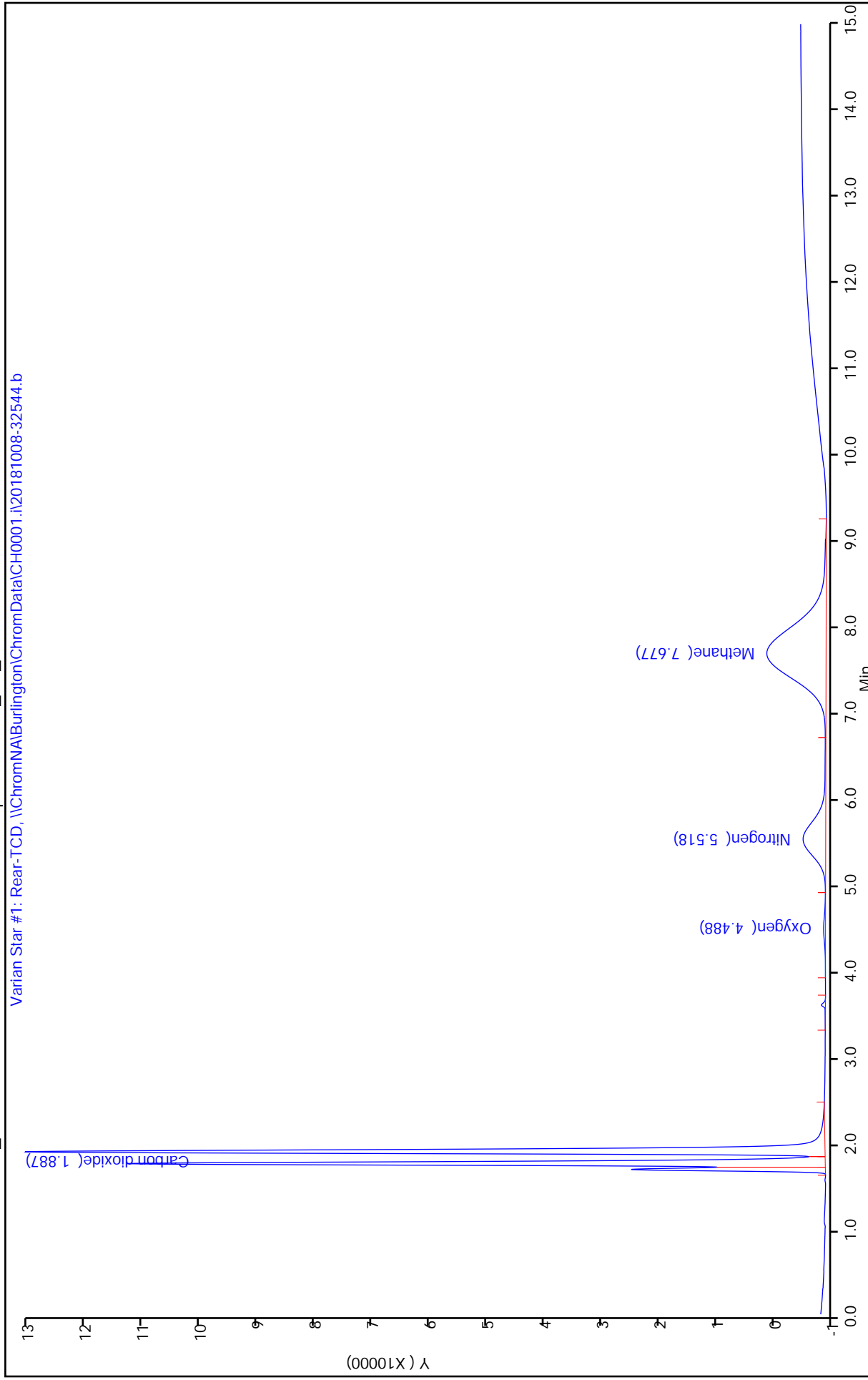
Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	9.72	9.83	9.77	0.54
Oxygen	0.14	0.14	0.14	1.42
Nitrogen	1.94	1.94	1.94	0
Methane	10.02	10.09	10.05	0.33

Report Date: 15-Oct-2018 10:22:11

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

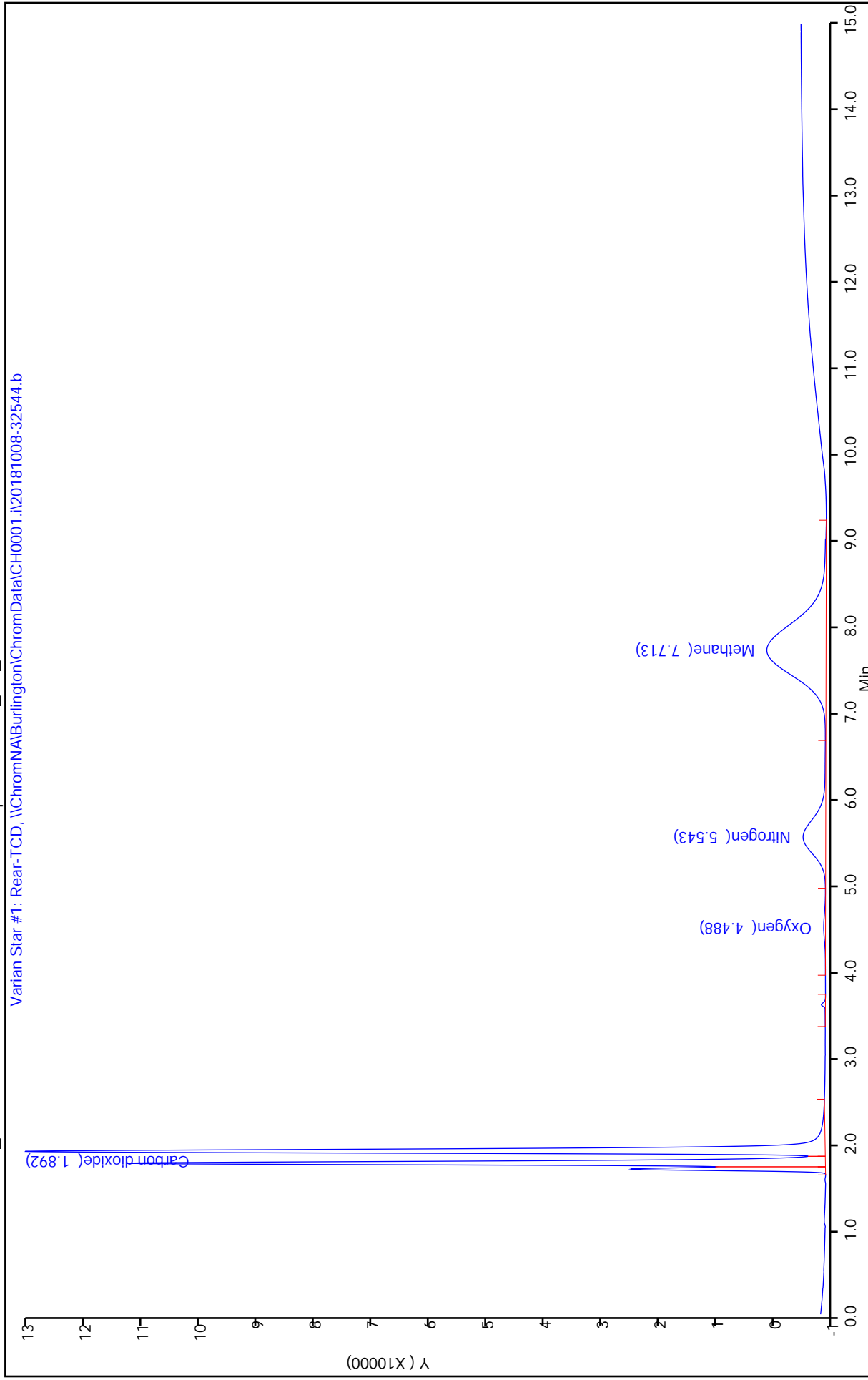
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-9e.d  
Injection Date: 09-Oct-2018 05:22:05  
Instrument ID: CH0001.i  
Operator ID: WRD  
Lims ID: 200-45504-A-9  
Lab Sample ID: 200-45504-9  
Worklist Smp#: 27  
Client ID: KTSG-COMP-17  
Purge Vol: 2.000 mL  
ALS Bottle#: 0  
Method: EPA3C\_CH0001.i  
Dil. Factor: 4.8000  
Limit Group: AI\_3C\_Limits





TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-9f.d  
Injection Date: 09-Oct-2018 05:38:07 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-9 Lab Sample ID: 200-45504-9 Worklist Smp#: 28  
Client ID: KTSG-COMP-17 Dil. Factor: 4.8000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_3C\_Limits  
Method: EPA3C\_CH0001.i



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b

TestAmerica Burlington

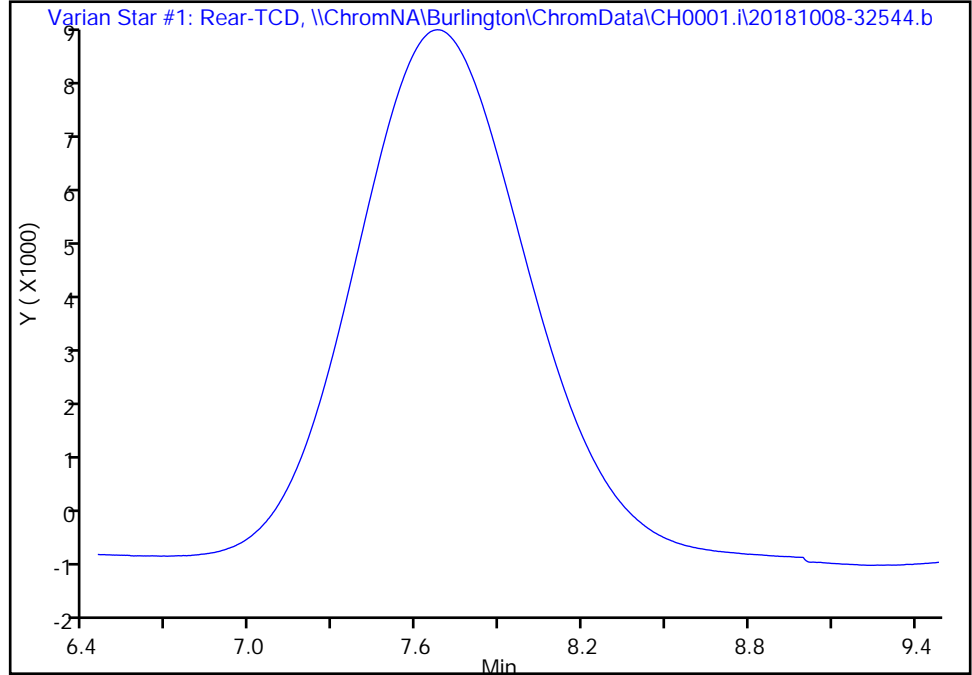
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-9e.d  
Injection Date: 09-Oct-2018 05:22:05 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-9 Lab Sample ID: 200-45504-9  
Client ID: KTSG-COMP-17  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 27  
Purge Vol: 2.000 mL Dil. Factor: 4.8000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

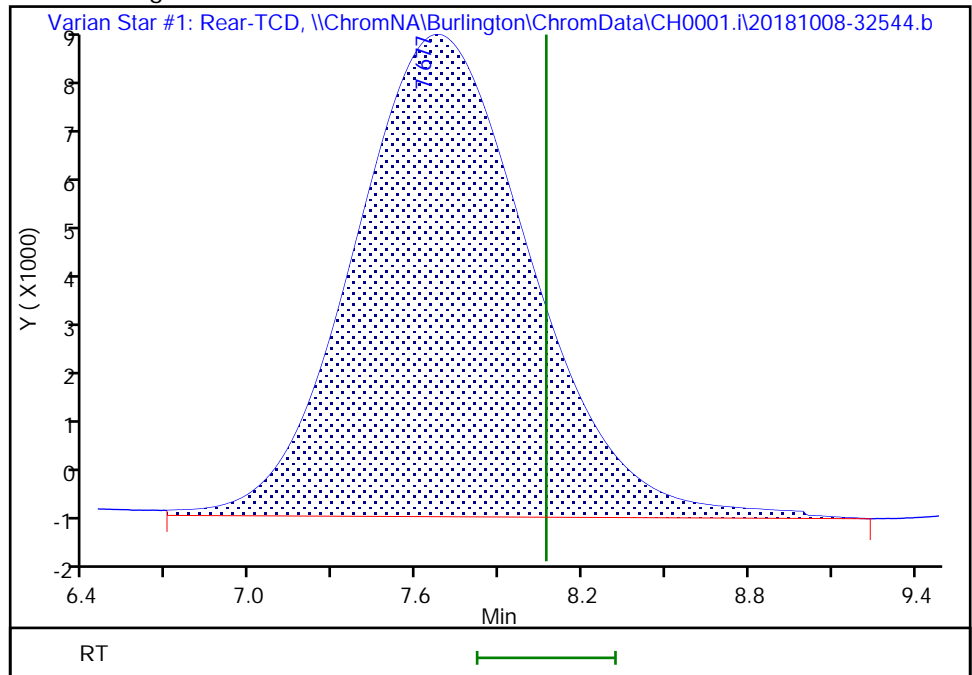
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 410512  
Amount: 10.021605  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 16:27:13  
Audit Action: Assigned Compound ID

TestAmerica Burlington

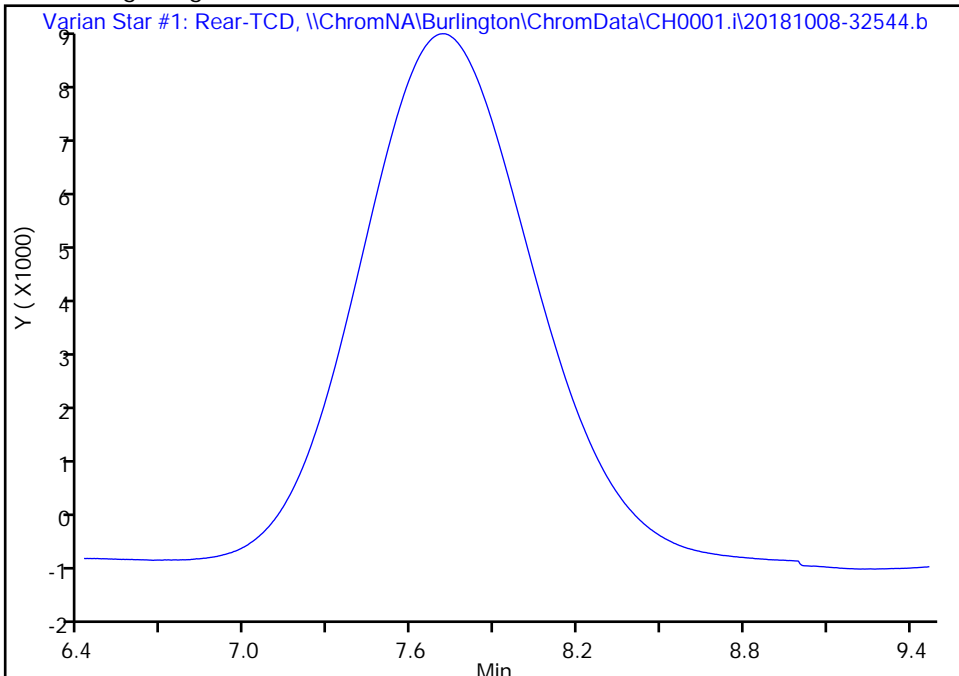
Data File:	\\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\200-45504-a-9f.d				
Injection Date:	09-Oct-2018 05:38:07	Instrument ID:	CH0001.i		
Lims ID:	200-45504-A-9	Lab Sample ID:	200-45504-9		
Client ID:	KTSG-COMP-17				
Operator ID:	WRD	ALS Bottle#:	0	Worklist Smp#:	28
Purge Vol:	2.000 mL	Dil. Factor:	4.8000		
Method:	EPA3C_CH0001.i	Limit Group:	AI_3C_Limits		
Column:		Detector:	Varian Star #1: Rear-TCD		

4 Methane, CAS: 74-82-8

Signal: 1

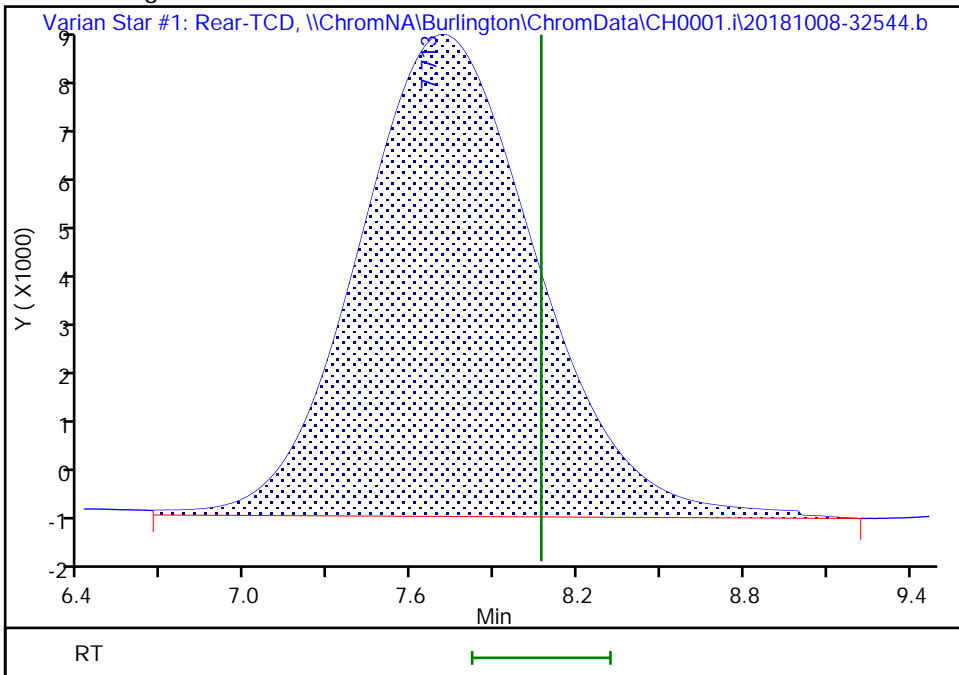
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.71  
Area: 413220  
Amount: 10.087714  
Amount Units: % v/v



FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1 Analy Batch No.: 92935

SDG No.: 200-45504-1

Instrument ID: CH0001.i GC Column: CTR-1 ID: 3.175 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 09:23 Calibration End Date: 08/17/2015 17:37 Calibration ID: 31742

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92935/1	ic-01001.d-avg
Level 2	IC 200-92935/5	co call1002.d-avg
Level 3	IC 200-92935/2	ic-02001.d-avg
Level 4	IC 200-92935/3	ic-03002.d-avg
Level 5	ICIS 200-92935/4	icis-04001.d-avg
Level 6	IC 200-92935/6	co 10%001.d-avg
Level 7	IC 200-92935/9	zero air002.d-avg
Level 8	IC 200-92935/7	ch4 100%001.d-avg
Level 9	IC 200-92935/8	co2 100%001.d-avg
Level 10	IC 200-92935/11	n2 100%002.d-avg

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
Carbon dioxide	1.900		1.908	1.902	1.905				1.857		1.644 - 2.144	1.894
Oxygen	4.521		4.552	4.527	4.538		4.482				4.237 - 4.737	4.524
Nitrogen			5.653	5.640	5.653		5.539			5.568	5.332 - 5.832	5.611
Methane	7.581		7.855	7.998	8.198			7.760			7.819 - 8.319	7.878
Carbon monoxide		8.557	8.513	8.550	8.560	8.603					8.181 - 8.681	8.557

FORM VI  
AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45504-1 Analy Batch No.: 92935

SDG No.: 200-45504-1

Instrument ID: CH0001.i GC Column: CTR-1 ID: 3.175 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 09:23 Calibration End Date: 08/17/2015 17:37 Calibration ID: 31742

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92935/1	ic-01001.d-avg
Level 2	IC 200-92935/5	co call1002.d-avg
Level 3	IC 200-92935/2	ic-02001.d-avg
Level 4	IC 200-92935/3	ic-03002.d-avg
Level 5	ICIS 200-92935/4	icis-04001.d-avg
Level 6	IC 200-92935/6	co 10%001.d-avg
Level 7	IC 200-92935/9	zero air002.d-avg
Level 8	IC 200-92935/7	ch4 100%001.d-avg
Level 9	IC 200-92935/8	co2 100%001.d-avg
Level 10	IC 200-92935/11	n2 100%002.d-avg

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5 LVL 9	LVL 6 LVL 10	LVL 7	LVL 8												
Carbon dioxide	45260 46018 44928		42200	43521	Ave		44385.4120			3.3		20.0				
Oxygen	65630 46698		49461 44566	44815	Ave		50233.7973			16.6		20.0				
Nitrogen	52134	50787	72573 51321	52337	Ave		55830.3947			15.9		20.0				
Methane	50138 40239		36086	33990 44361	Ave		40962.7008			15.1		20.0				
Carbon monoxide	50530	46955 48197	47271	53316	Ave		49253.6400			5.5		20.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45504-1 Analy Batch No.: 92935

SDG No.: 200-45504-1

Instrument ID: CH0001.i GC Column: CTR-1 ID: 3.175 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/17/2015 09:23 Calibration End Date: 08/17/2015 17:37 Calibration ID: 31742

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-92935/1	ic-01001.d-avg
Level 2	IC 200-92935/5	co call1002.d-avg
Level 3	IC 200-92935/2	ic-02001.d-avg
Level 4	IC 200-92935/3	ic-03002.d-avg
Level 5	ICIS 200-92935/4	icis-04001.d-avg
Level 6	IC 200-92935/6	co 10%001.d-avg
Level 7	IC 200-92935/9	zero air002.d-avg
Level 8	IC 200-92935/7	ch4 100%001.d-avg
Level 9	IC 200-92935/8	co2 100%001.d-avg
Level 10	IC 200-92935/11	n2 100%002.d-avg

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (% V/V)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Carbon dioxide	Ave	2263		21100	108803 4492816	230090	0.0500		0.500	2.50 100	5.00
Oxygen	Ave	3282	980450	24731	112037	233488	0.0500	22.0	0.500	2.50	5.00
Nitrogen	Ave		4003002	36287	130843	260672 5078704		78.0	0.500	2.50	5.00 100
Methane	Ave	2006		14435 4391727	67979	160958	0.0400		0.400 99.0	2.00	4.00
Carbon monoxide	Ave		4696	23636	133289	252649		0.100	0.500	2.50	5.00
		481969					10.0				

Curve Type Legend:

Ave = Average

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 17-Aug-2015 09:23:50 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-01  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:12:55 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 11:08:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.900	1.894	0.006	2261	0.0500	0.0509	
2 Oxygen	4.521	4.487	0.034	3259	0.0500	0.0649	
4 Methane	7.581	8.069	-0.488	1968	0.0400	0.0480	

Reagents:

AT3CCAL1i\_00014 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 17-Aug-2015 09:39:42 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-01  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:12:57 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:18:05

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.902	1.894	0.008	2265	0.0500	0.0510	
2 Oxygen	4.526	4.487	0.039	3304	0.0500	0.0658	
4 Methane	7.539	8.069	-0.530	2043	0.0400	0.0499	

Reagents:

AT3CCAL1i\_00014 Amount Added: 2.00 Units: mL



Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-01001-92802-ai\_3c\_limit

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-01002-92802-ai\_3c\_limit

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	2261	2265	2263	0.18
Oxygen	3259	3304	3281.5	1.37
Nitrogen	0	0	0	0
Methane	1968	2043	2005.5	3.74
Carbon monoxide	0	0	0	0

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	0.05	0.05	0.05	0.18
Oxygen	0.06	0.07	0.07	1.37
Nitrogen	0	0	0	0
Methane	0.05	0.05	0.05	3.74
Carbon monoxide	0	0	0	0

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01001.d

Injection Date: 17-Aug-2015 09:23:50

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 2

Client ID:

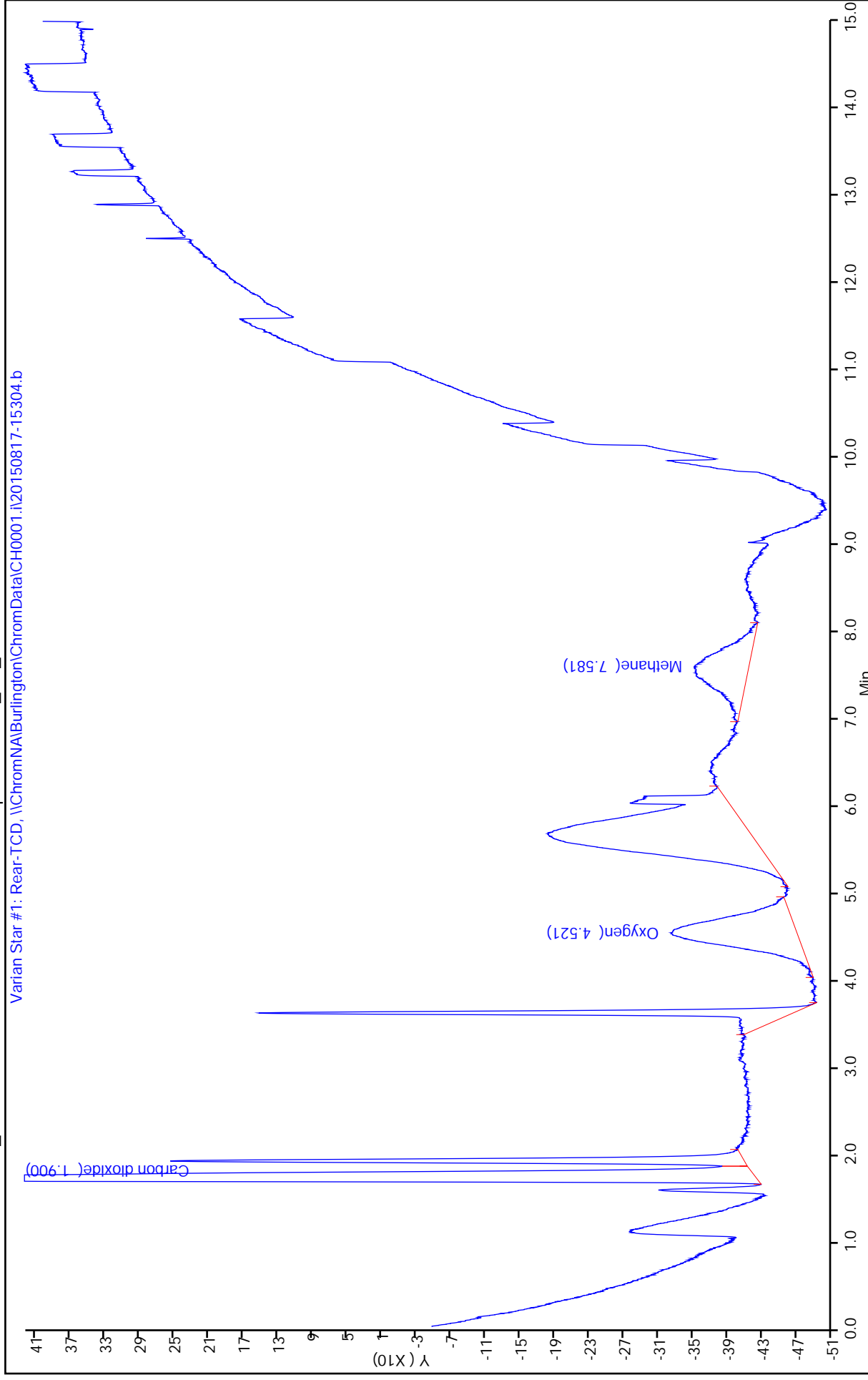
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-01002.d

Injection Date: 17-Aug-2015 09:39:42

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 3

Client ID:

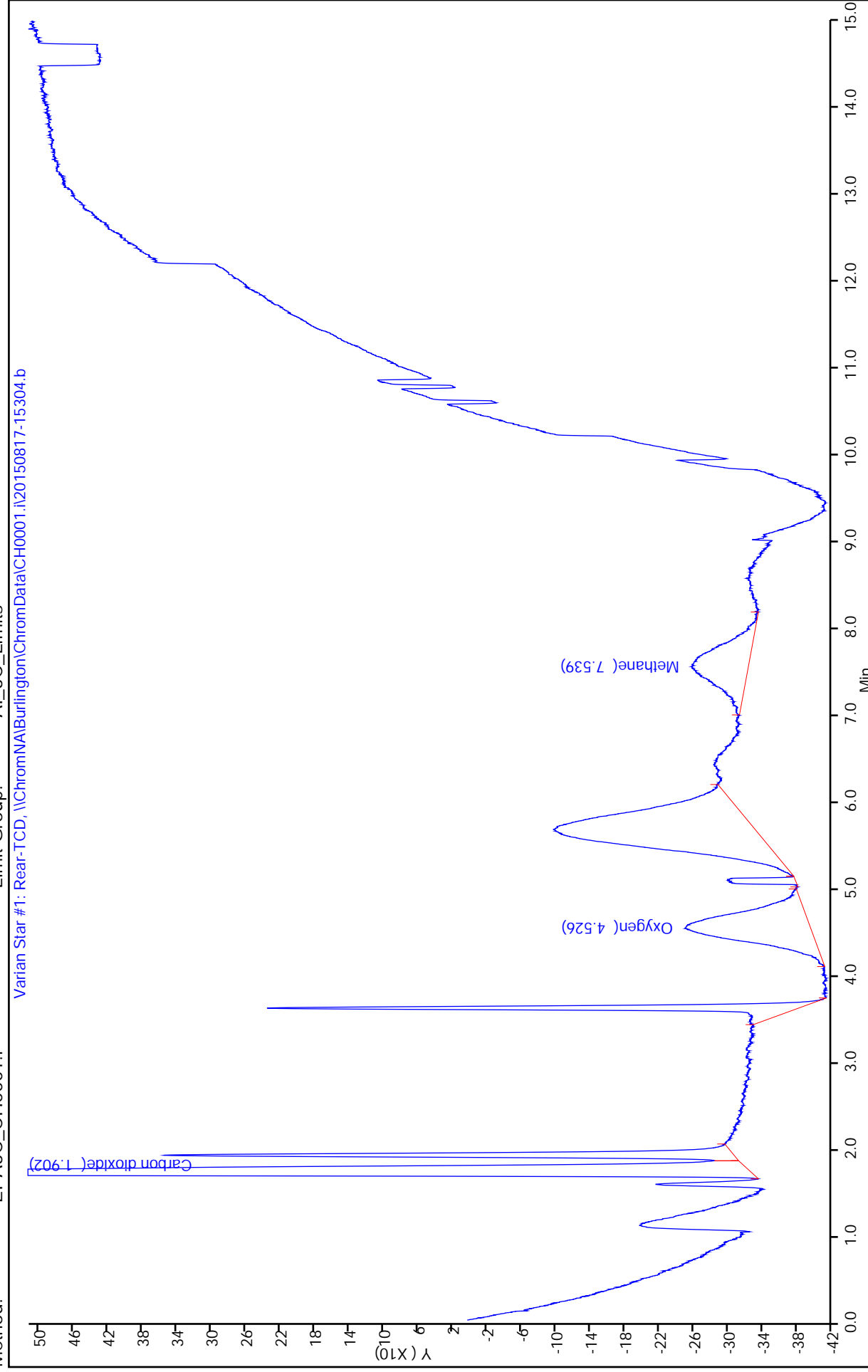
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 17-Aug-2015 10:20:55 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-02  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:01 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb

Date: 17-Aug-2015 13:18:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.908	1.894	0.014	21181	0.5000	0.4772	
2 Oxygen	4.552	4.487	0.065	24280	0.5000	0.4833	M
3 Nitrogen	5.653	5.582	0.071	35993	0.5000	0.6447	M
4 Methane	7.855	8.069	-0.214	14777	0.4000	0.3607	M
5 Carbon monoxide	8.513	8.431	0.082	24610	0.5000	0.4997	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

AT3CCAL2i\_00012

Amount Added: 2.00

Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 17-Aug-2015 10:05:03 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-02  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:12:59 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 11:25:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.915	1.894	0.021	21019	0.5000	0.4736	
2 Oxygen	4.560	4.487	0.073	25181	0.5000	0.5013	M
3 Nitrogen	5.687	5.582	0.105	36580	0.5000	0.6552	M
4 Methane	7.945	8.069	-0.124	14092	0.4000	0.3440	M
5 Carbon monoxide	8.615	8.431	0.184	22661	0.5000	0.4601	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCAL2i\_00012 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-02001-92802-ai\_3c\_limit  
\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-02-92802-ai\_3c\_limits-1

Raw Results - Fixed Gases

---

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	21181	21019	21100	0.77
Oxygen	24280	25181	24730.5	3.64
Nitrogen	35993	36580	36286.5	1.62
Methane	14777	14092	14434.5	4.75
Carbon monoxide	24610	22661	23635.5	8.25*

\* - RPD exceeds maximum RPD of 5

---

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	0.48	0.47	0.48	0.77
Oxygen	0.48	0.5	0.49	3.64
Nitrogen	0.64	0.66	0.65	1.62
Methane	0.36	0.34	0.35	4.75
Carbon monoxide	0.5	0.46	0.48	8.25*

\* - RPD exceeds maximum RPD of 5

---

----- NMOC Correction-----  
NMOC or N2 not found in quan file, NMOC correction not applied  
-----

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d

Injection Date: 17-Aug-2015 10:20:55

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 5

Client ID:

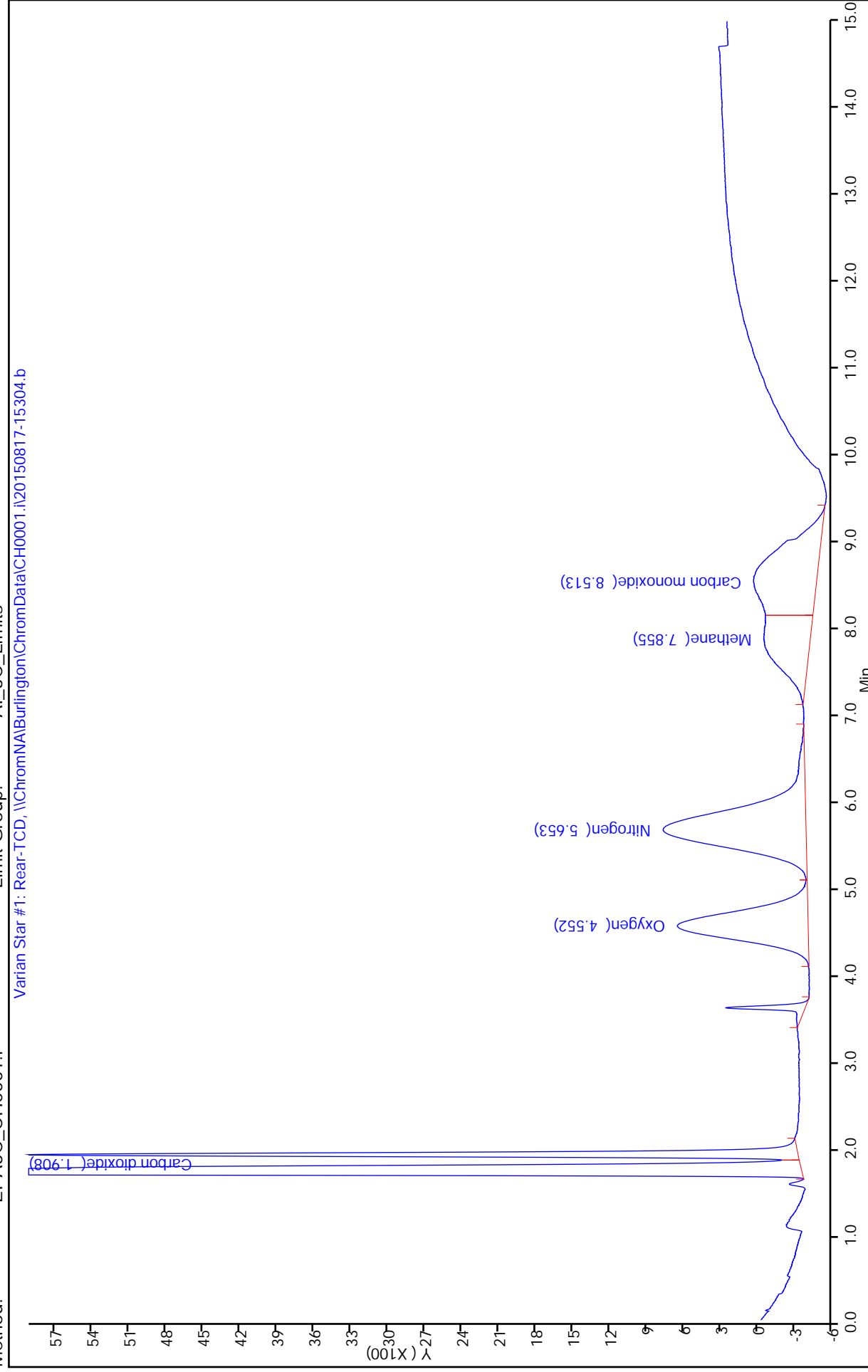
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:12:59

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d

Injection Date: 17-Aug-2015 10:05:03

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 4

Client ID:

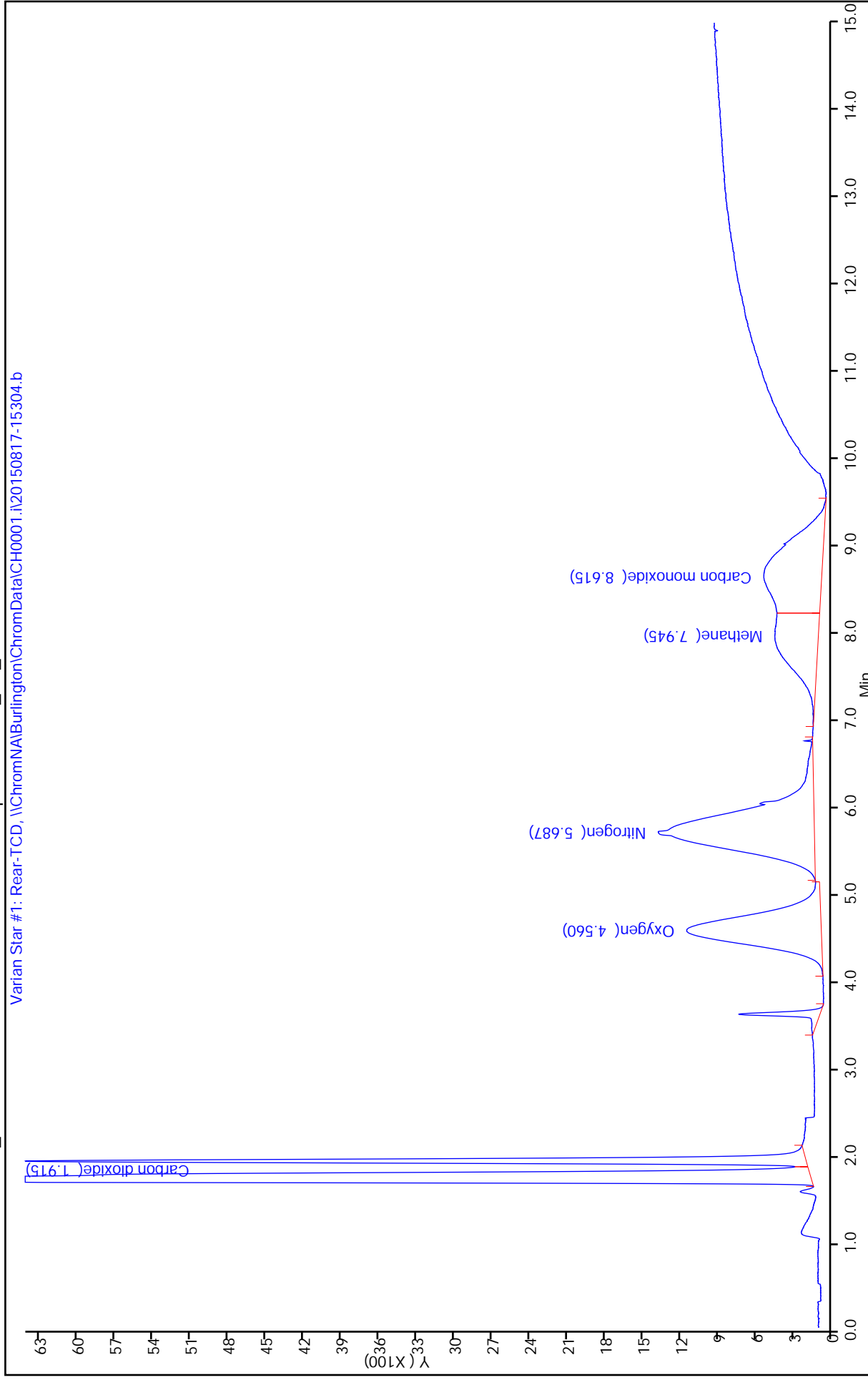
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits





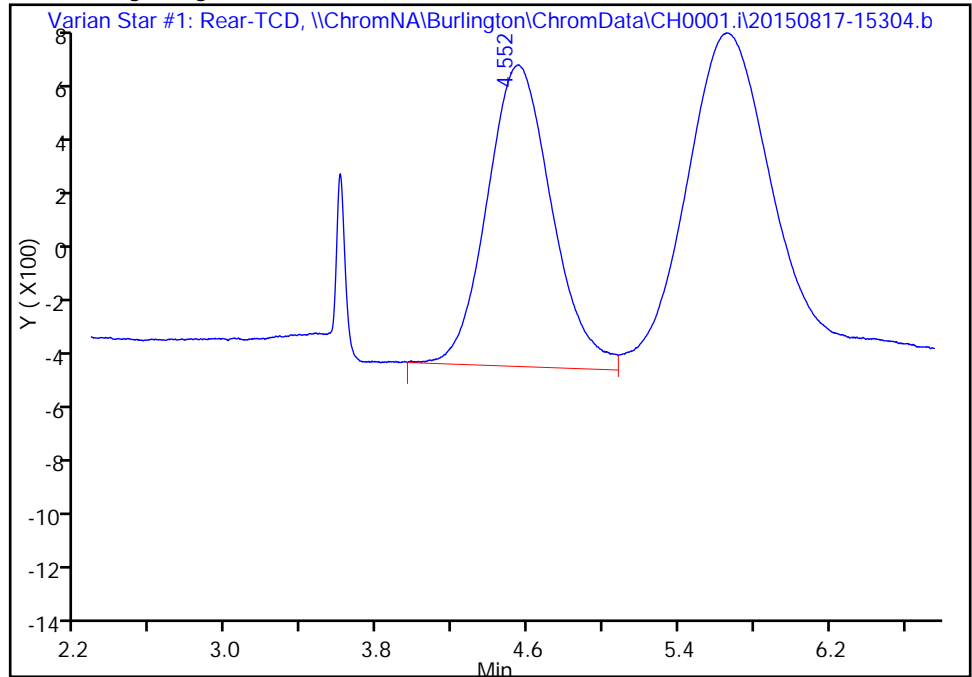
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

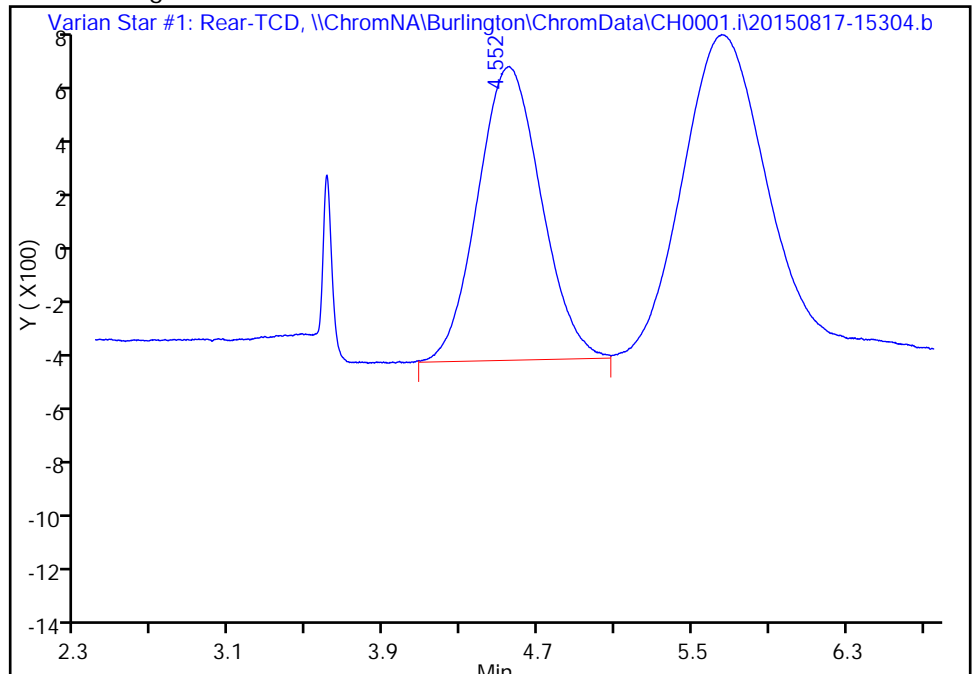
RT: 4.55  
Area: 25844  
Amount: 0.496601  
Amount Units: % v/v

Processing Integration Results



RT: 4.55  
Area: 24280  
Amount: 0.483340  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

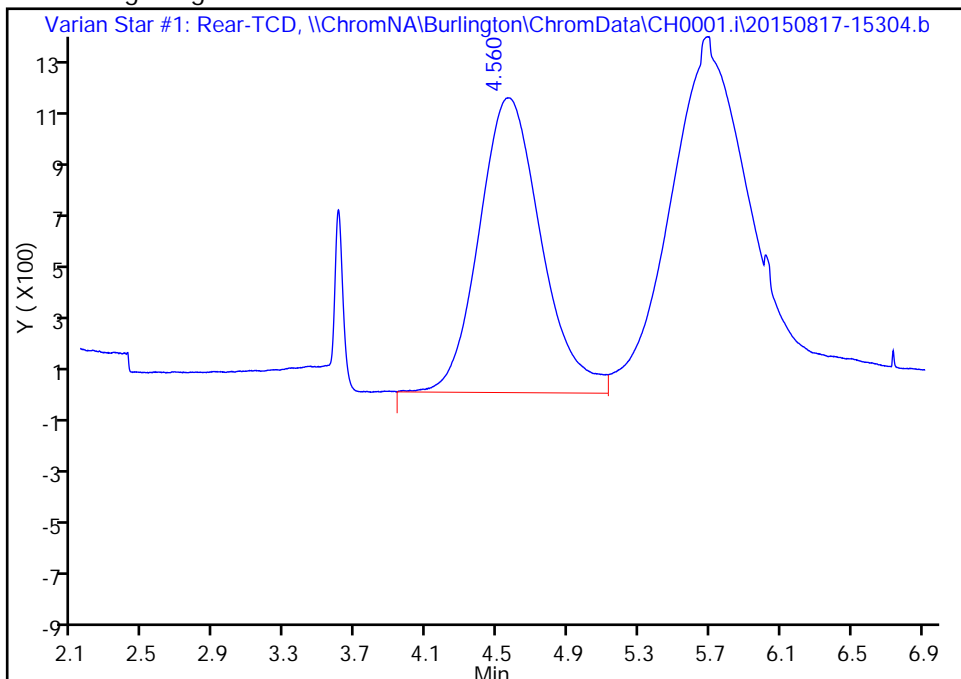
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

2 Oxygen, CAS: 7782-44-7

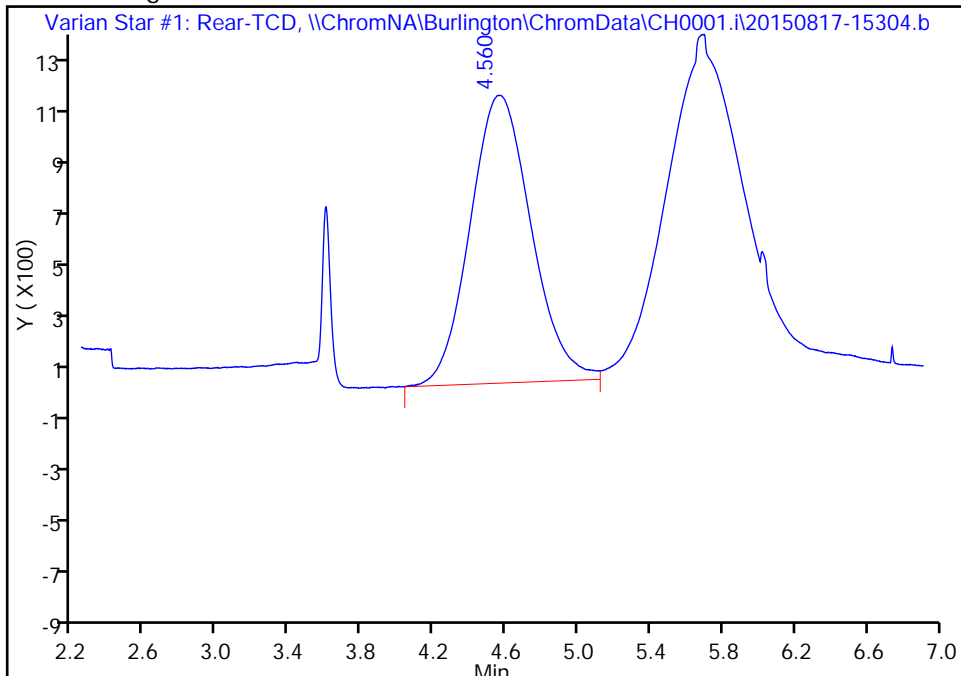
RT: 4.56  
Area: 26580  
Amount: 0.507334  
Amount Units: % v/v

Processing Integration Results



RT: 4.56  
Area: 25181  
Amount: 0.501276  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:15:04  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

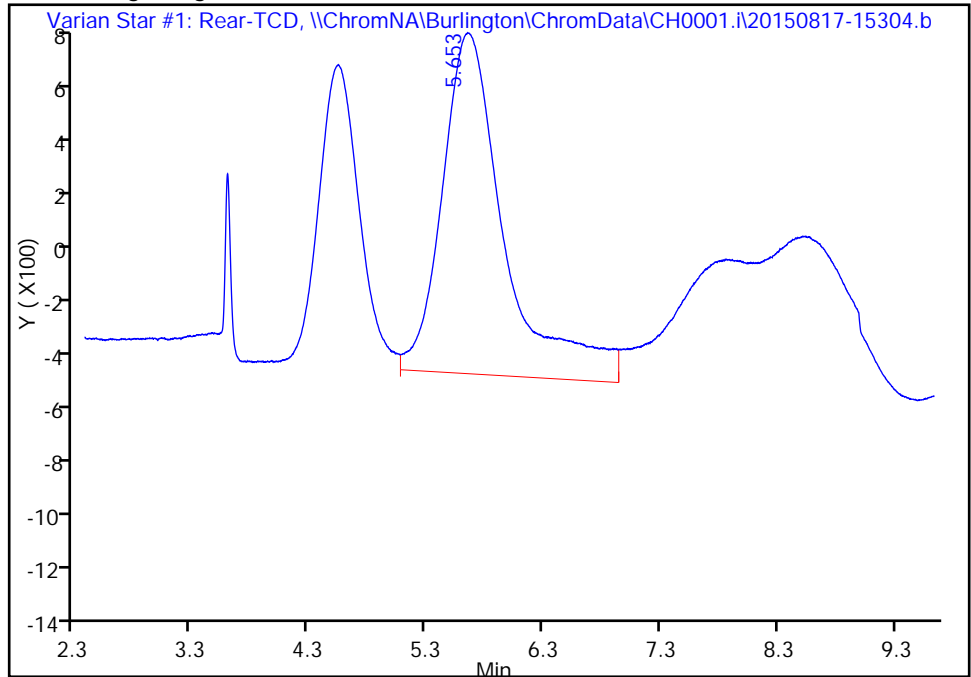
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

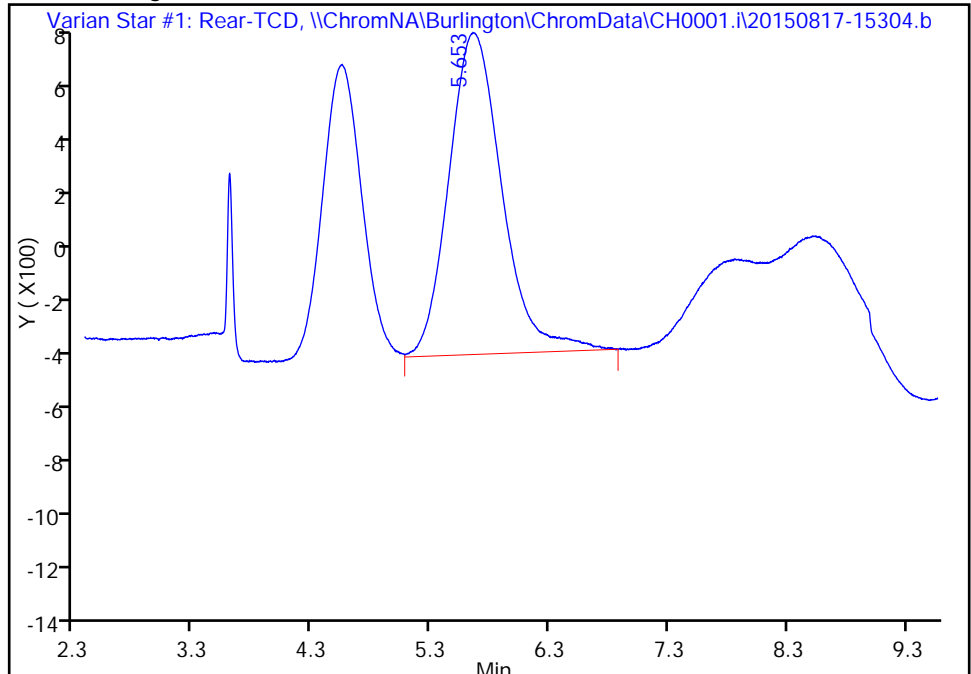
RT: 5.65  
Area: 45230  
Amount: 0.719572  
Amount Units: % v/v

Processing Integration Results



RT: 5.65  
Area: 35993  
Amount: 0.644685  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

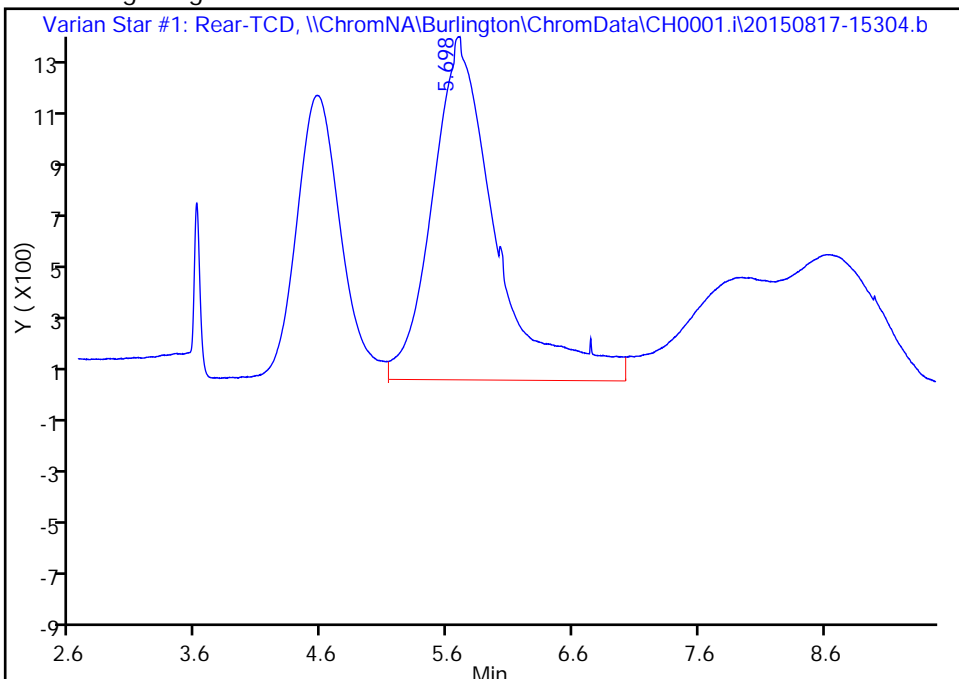
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

3 Nitrogen, CAS: 7727-37-9

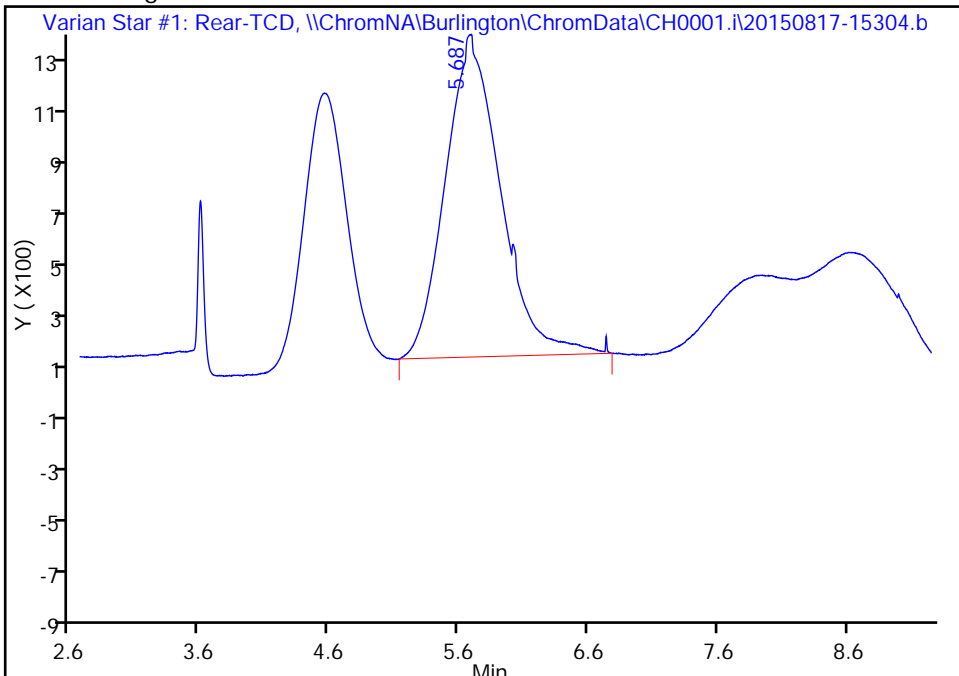
RT: 5.70  
Area: 46202  
Amount: 0.707522  
Amount Units: % v/v

Processing Integration Results



RT: 5.69  
Area: 36580  
Amount: 0.655199  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:25:32  
Audit Action: Manually Integrated  
Audit Reason: Baseline Smoothing

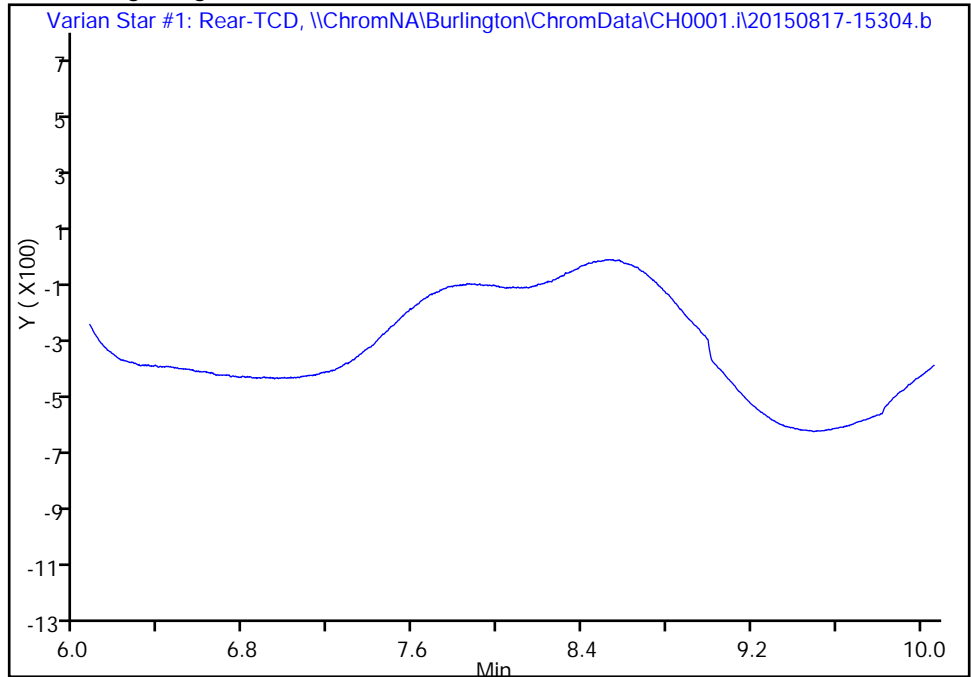
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

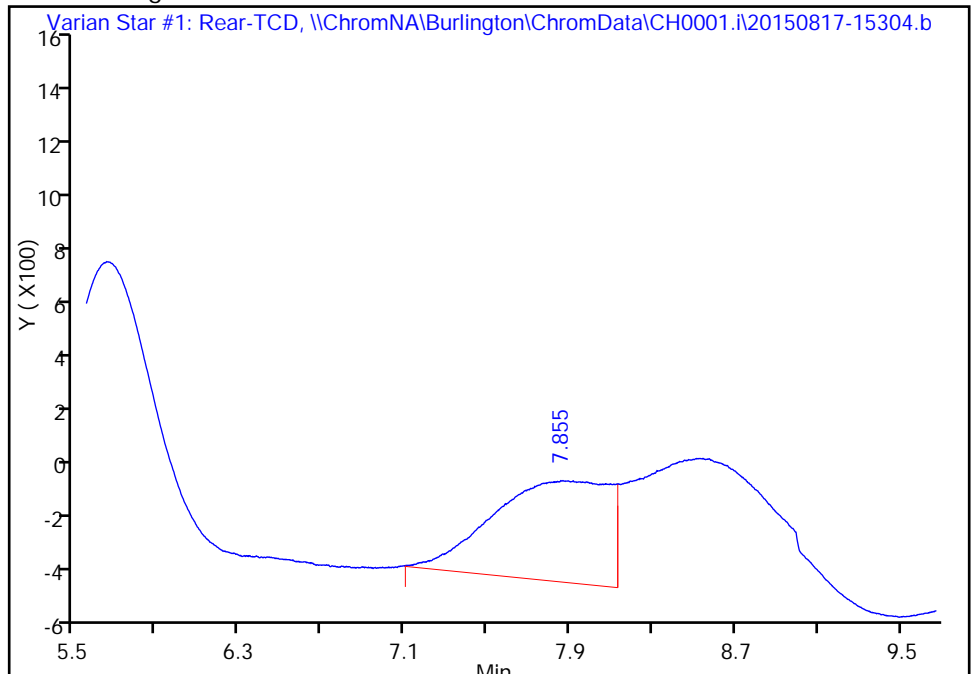
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 7.86  
Area: 14777  
Amount: 0.360743  
Amount Units: % v/v



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

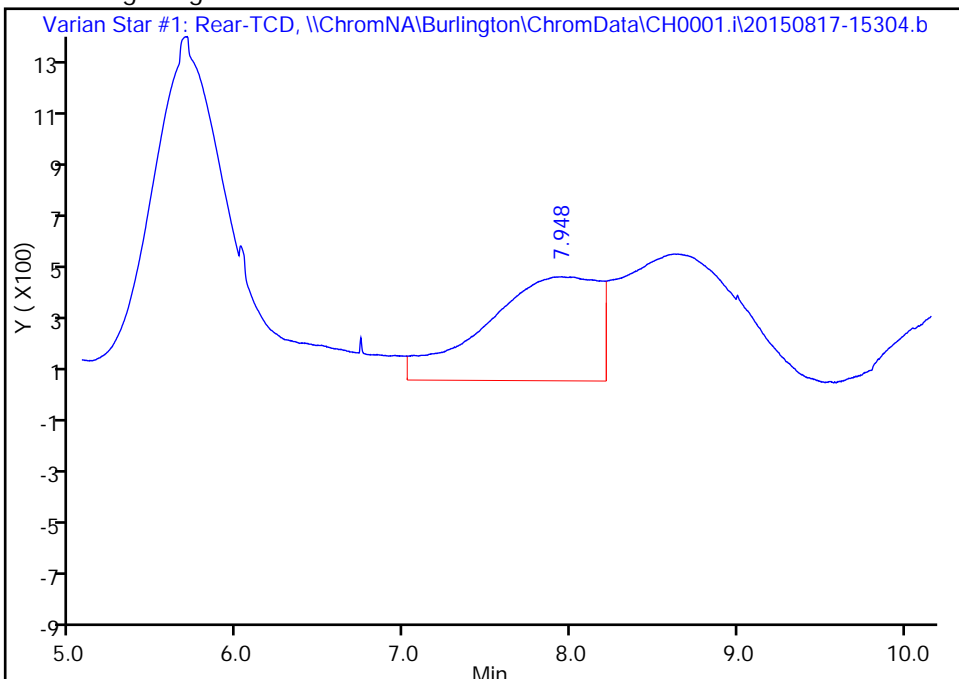
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

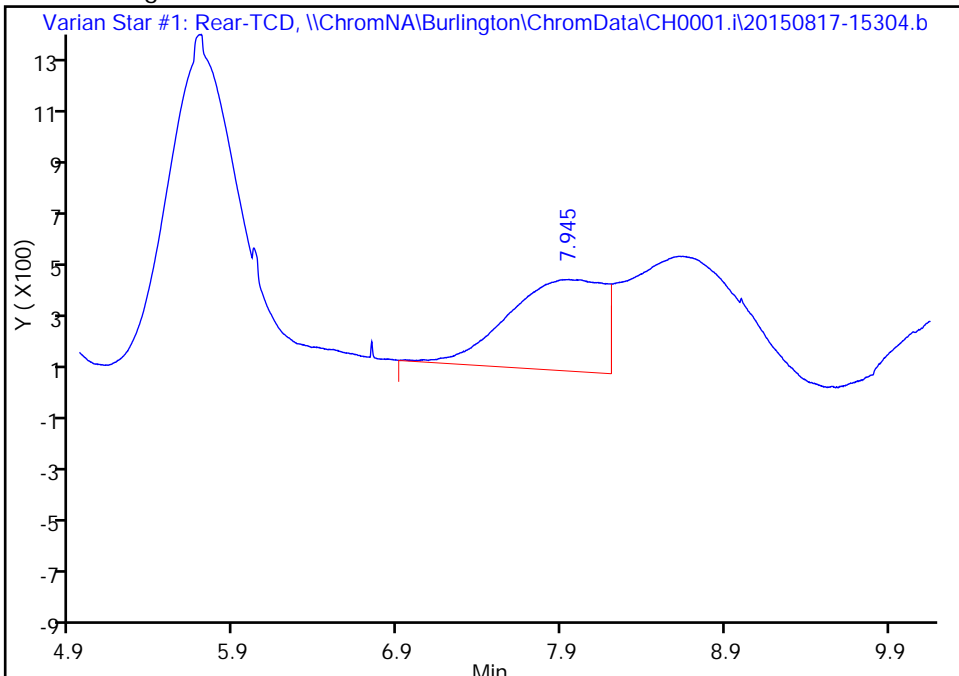
RT: 7.95  
Area: 18989  
Amount: 0.433490  
Amount Units: % v/v

Processing Integration Results



RT: 7.95  
Area: 14092  
Amount: 0.344020  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:31:27  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

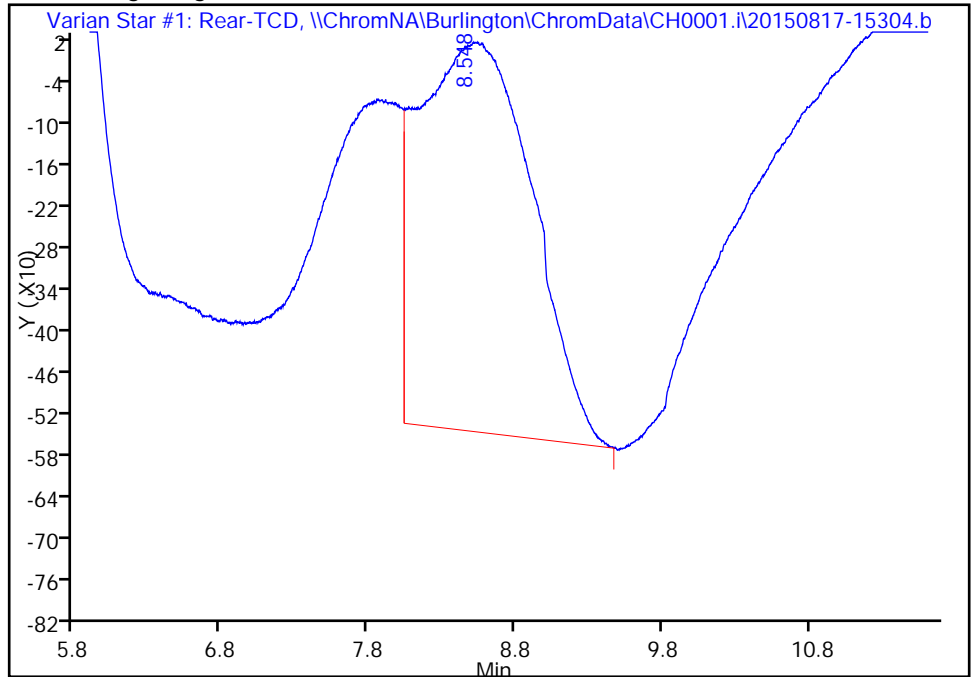
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02001.d  
Injection Date: 17-Aug-2015 10:20:55 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 5  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

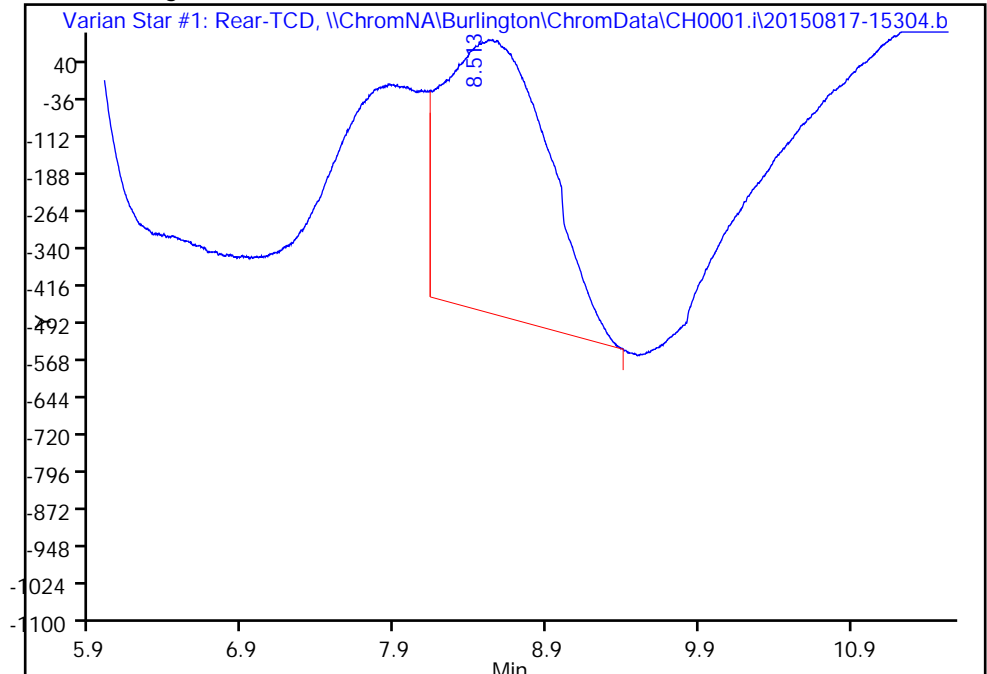
RT: 8.55  
Area: 30155  
Amount: 0.534425  
Amount Units: % v/v

Processing Integration Results



RT: 8.51  
Area: 24610  
Amount: 0.499659  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:16:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

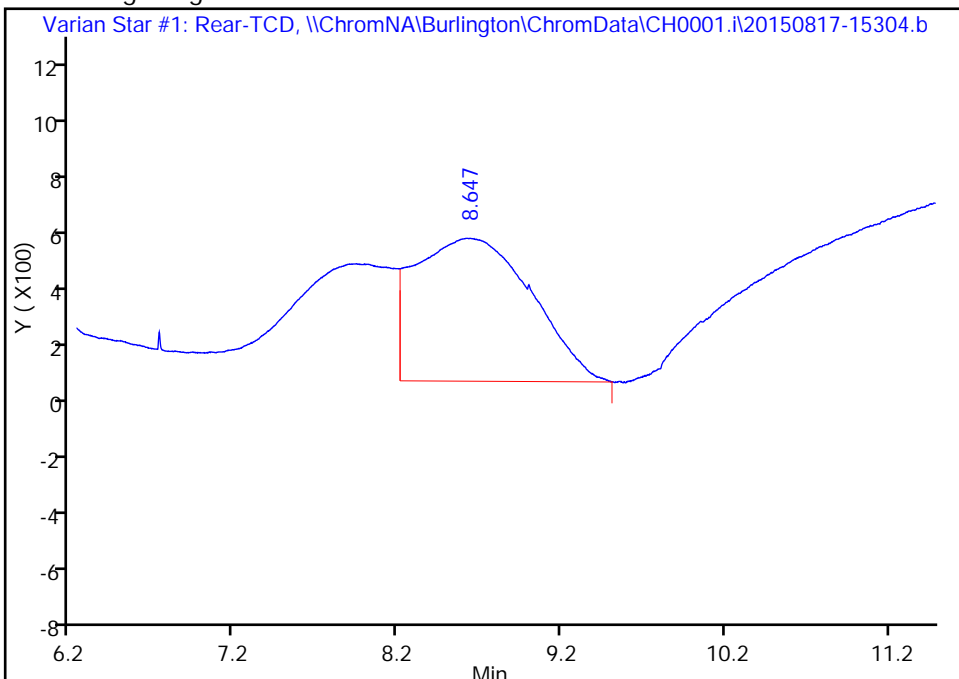
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-02.d  
Injection Date: 17-Aug-2015 10:05:03 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

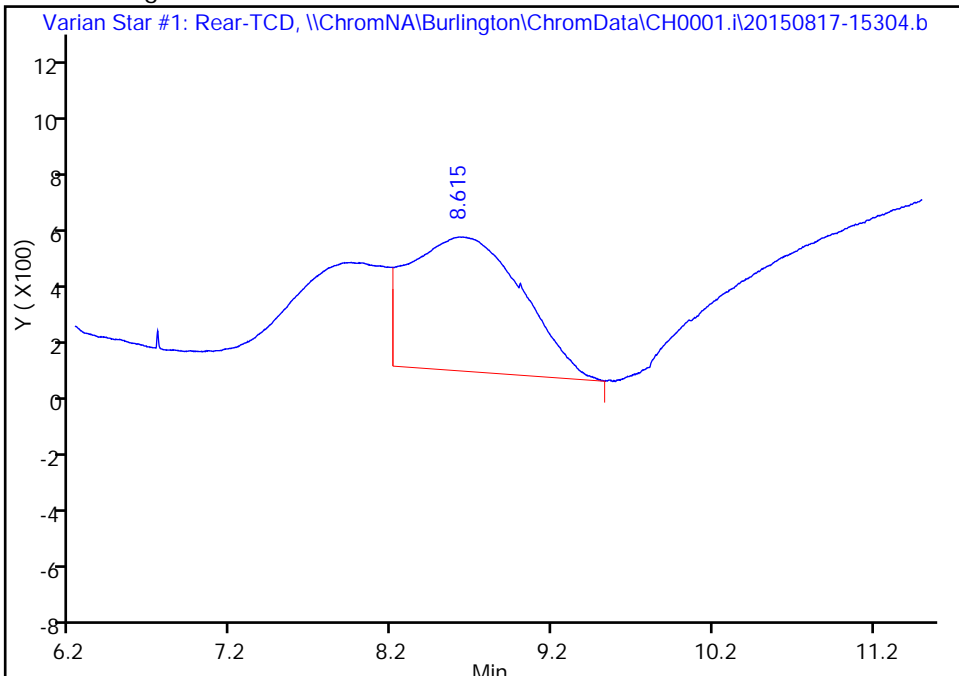
RT: 8.65  
Area: 24251  
Amount: 0.424705  
Amount Units: % v/v

Processing Integration Results



RT: 8.62  
Area: 22661  
Amount: 0.460088  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 11:31:27  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 17-Aug-2015 11:34:42 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-03  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:05 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 11:48:17

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.902	1.894	0.008	109517	2.50	2.47	
2 Oxygen	4.527	4.487	0.040	113496	2.50	2.26	
3 Nitrogen	5.640	5.582	0.058	132969	2.50	2.38	
4 Methane	7.998	8.069	-0.071	66751	2.00	1.63	M
5 Carbon monoxide	8.550	8.431	0.119	134011	2.50	2.72	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCAL3i\_00012 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 17-Aug-2015 11:02:57 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: IC-03  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:03 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:20:50

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.905	1.894	0.011	108088	2.50	2.44	
2 Oxygen	4.532	4.487	0.045	110577	2.50	2.20	
3 Nitrogen	5.650	5.582	0.068	128716	2.50	2.31	
4 Methane	7.963	8.069	-0.106	69207	2.00	1.69	
5 Carbon monoxide	8.573	8.431	0.142	132567	2.50	2.69	

Reagents:

AT3CCAL3i\_00012 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-03002-92802-ai\_3c\_limit

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ic-03-92802-ai\_3c\_limits-1

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	109517	108088	108802.5	1.31
Oxygen	113496	110577	112036.5	2.61
Nitrogen	132969	128716	130842.5	3.25
Methane	66751	69207	67979	3.61
Carbon monoxide	134011	132567	133289	1.08

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	2.47	2.44	2.45	1.31
Oxygen	2.26	2.2	2.23	2.61
Nitrogen	2.38	2.31	2.34	3.25
Methane	1.63	1.69	1.66	3.61
Carbon monoxide	2.72	2.69	2.71	1.08

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:05

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d

Injection Date: 17-Aug-2015 11:34:42

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 9

Client ID:

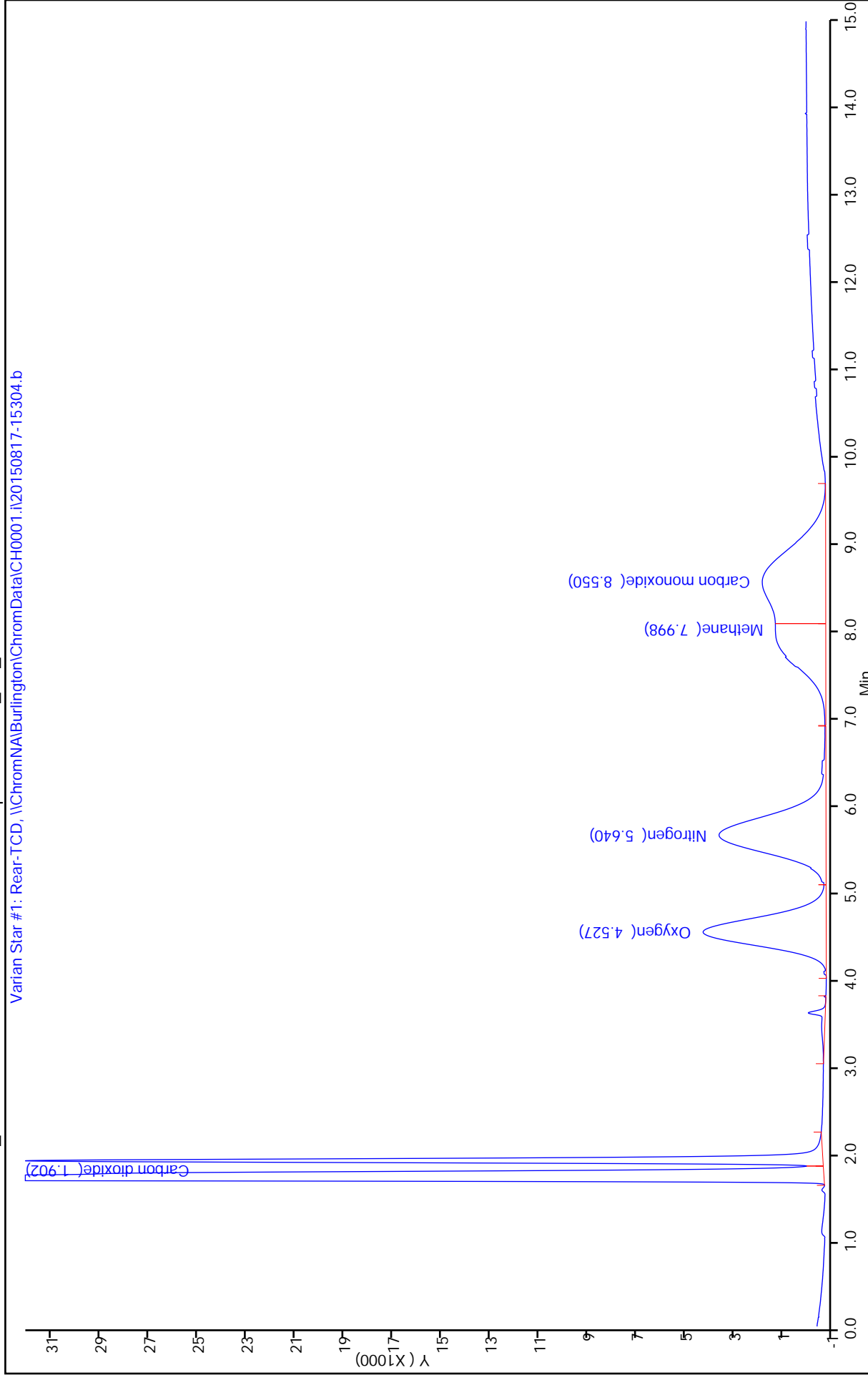
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

Report Date: 19-Aug-2015 16:13:03

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03.d

Injection Date: 17-Aug-2015 11:02:57

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 7

Client ID:

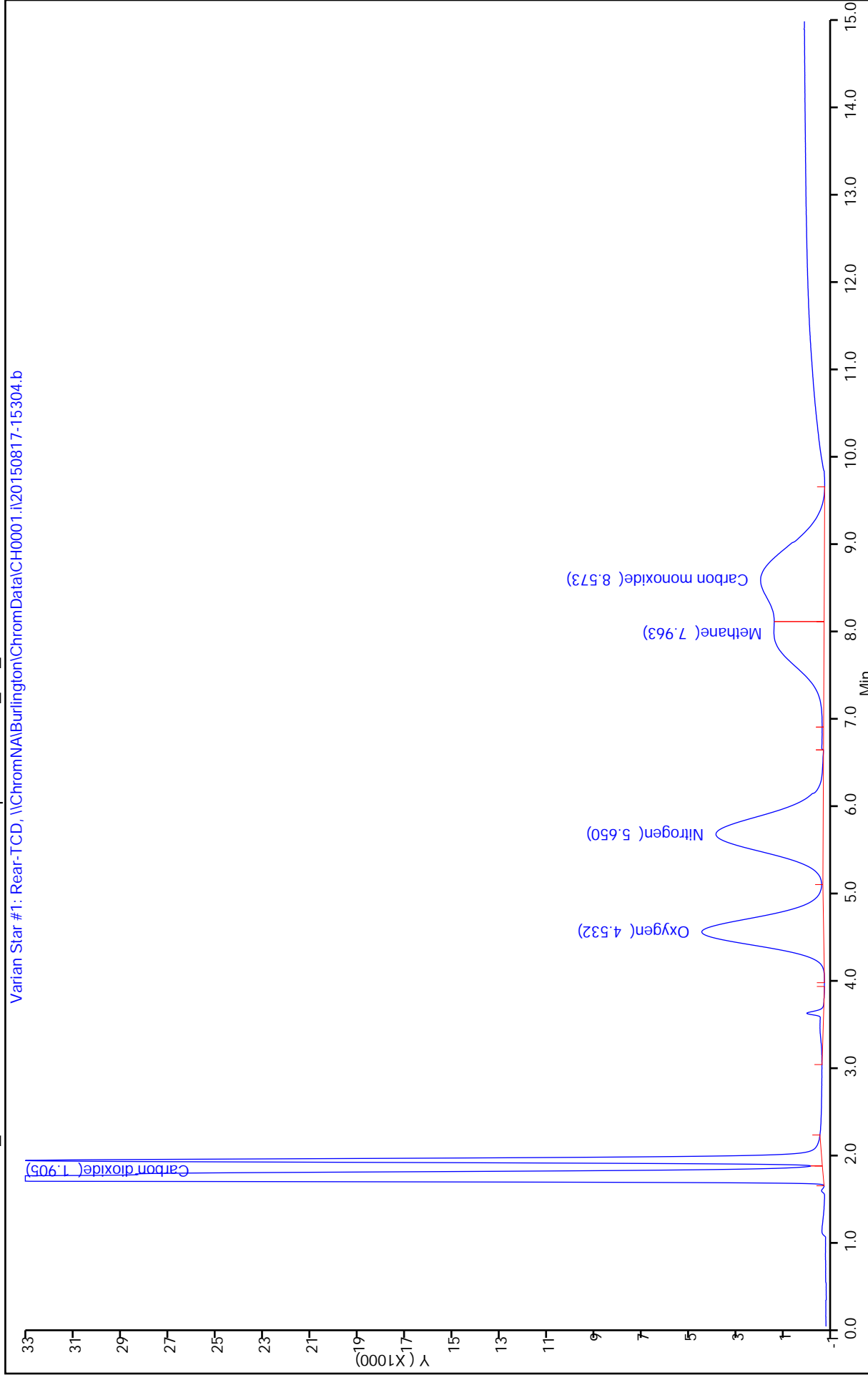
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

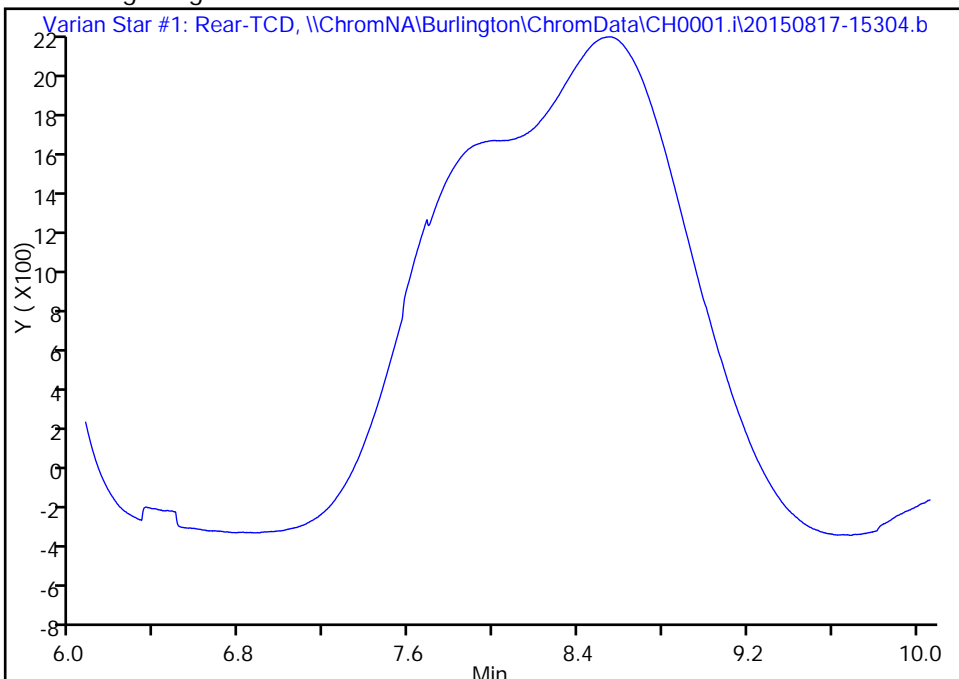
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d  
Injection Date: 17-Aug-2015 11:34:42 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

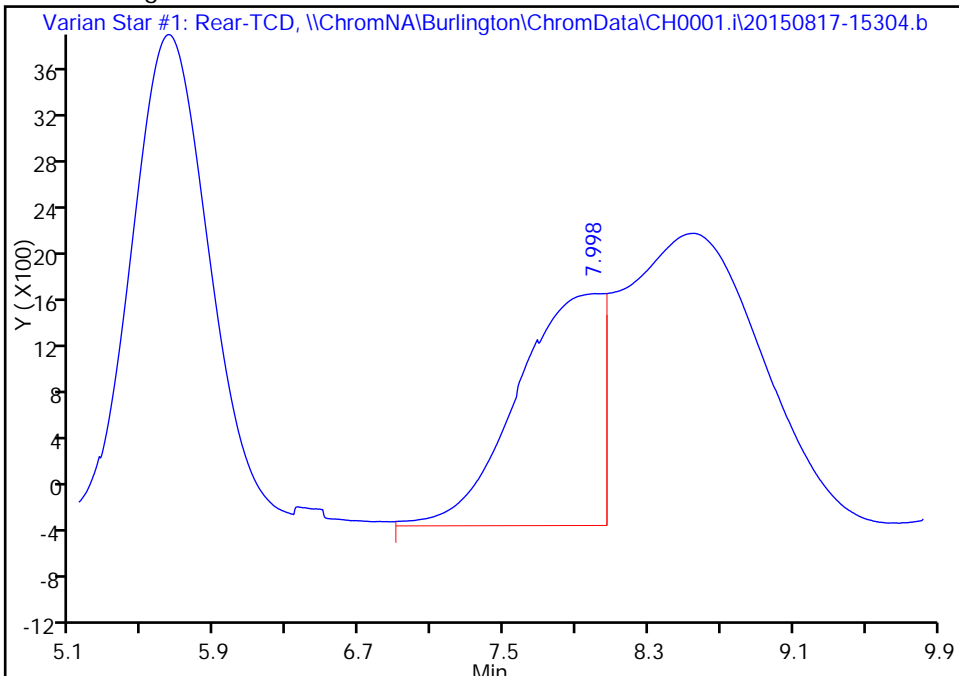
Not Detected  
Expected RT: 8.07

Processing Integration Results



Manual Integration Results

RT: 8.00  
Area: 66751  
Amount: 1.629556  
Amount Units: % v/v



Reviewer: desjardinsb, 18-Aug-2015 11:48:17  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

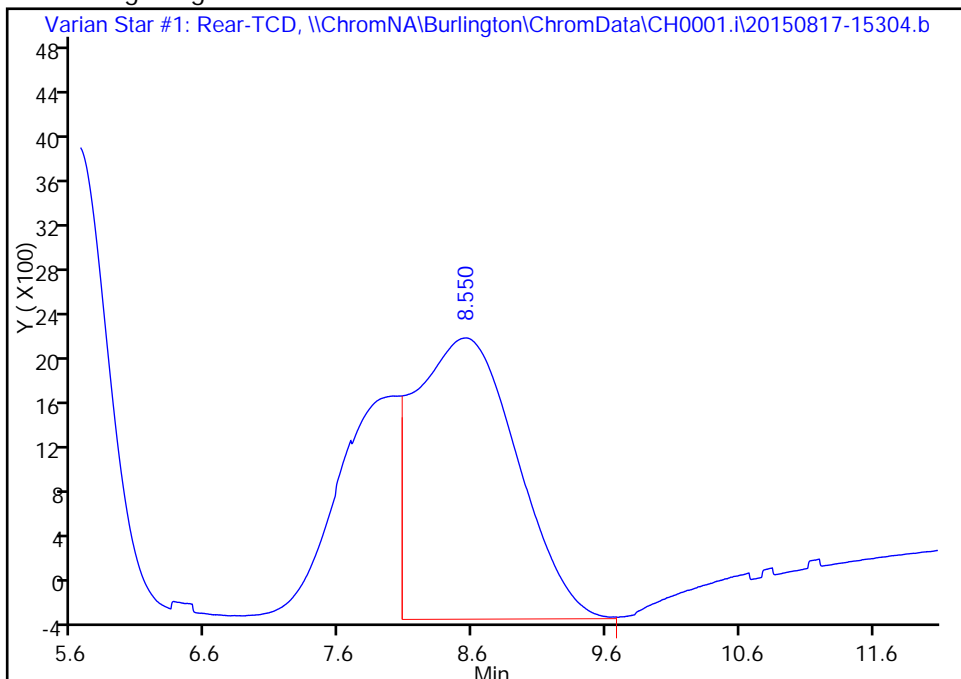
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ic-03002.d  
Injection Date: 17-Aug-2015 11:34:42 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

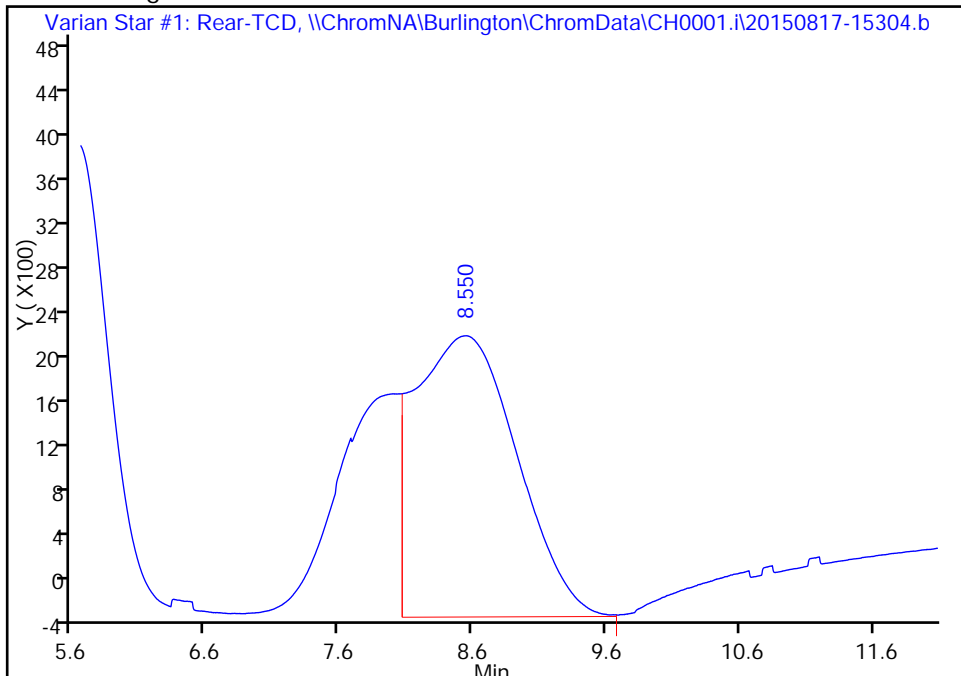
Processing Integration Results

RT: 8.55  
Area: 134011  
Amount: 2.716340  
Amount Units: % v/v



Manual Integration Results

RT: 8.55  
Area: 134011  
Amount: 2.720834  
Amount Units: % v/v



Reviewer: desjardinsb, 18-Aug-2015 11:48:17  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 11  
 Inject. Date: 17-Aug-2015 12:09:30 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: ICIS-04  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:07 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:16:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.905	1.905	0.000	232000	5.00	5.23	
2 Oxygen	4.538	4.538	0.000	236557	5.00	4.71	
3 Nitrogen	5.653	5.653	0.000	264095	5.00	4.73	
4 Methane	8.198	8.198	0.000	163452	4.00	3.99	M
5 Carbon monoxide	8.560	8.560	0.000	254622	5.00	5.17	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCCVs\_00060 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 12  
 Inject. Date: 17-Aug-2015 12:25:24 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: ICIS-04  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:08 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 17-Aug-2015 13:32:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.894	1.894	0.000	228179	5.00	5.14	
2 Oxygen	4.487	4.487	0.000	230418	5.00	4.59	
3 Nitrogen	5.582	5.582	0.000	257249	5.00	4.61	
4 Methane	8.069	8.069	0.000	158463	4.00	3.87	M
5 Carbon monoxide	8.431	8.431	0.000	250675	5.00	5.09	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CCCVs\_00060 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icis-04001-92802-ai\_3c\_lim

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icis-04002-92802-ai\_3c\_lim

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	232000	228179	230089.5	1.66
Oxygen	236557	230418	233487.5	2.63
Nitrogen	264095	257249	260672	2.63
Methane	163452	158463	160957.5	3.1
Carbon monoxide	254622	250675	252648.5	1.56

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	5.23	5.14	5.18	1.66
Oxygen	4.71	4.59	4.65	2.63
Nitrogen	4.73	4.61	4.67	2.63
Methane	3.99	3.87	3.93	3.1
Carbon monoxide	5.17	5.09	5.13	1.56

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:07

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d

Injection Date: 17-Aug-2015 12:09:30

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: icis

Worklist Smp#: 11

Client ID:

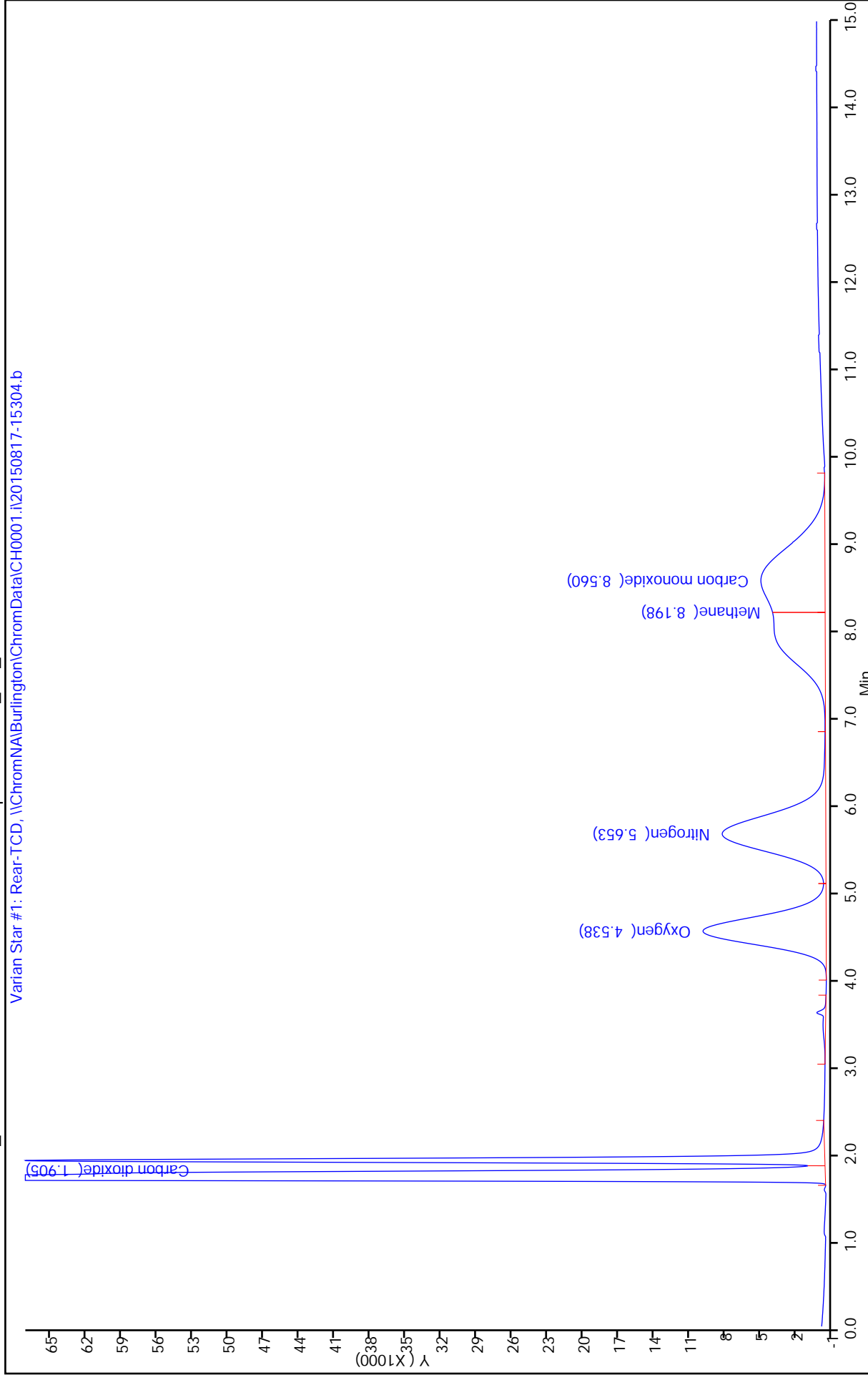
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:13:09

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d

Injection Date: 17-Aug-2015 12:25:24

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: icis

Worklist Smp#: 12

Client ID:

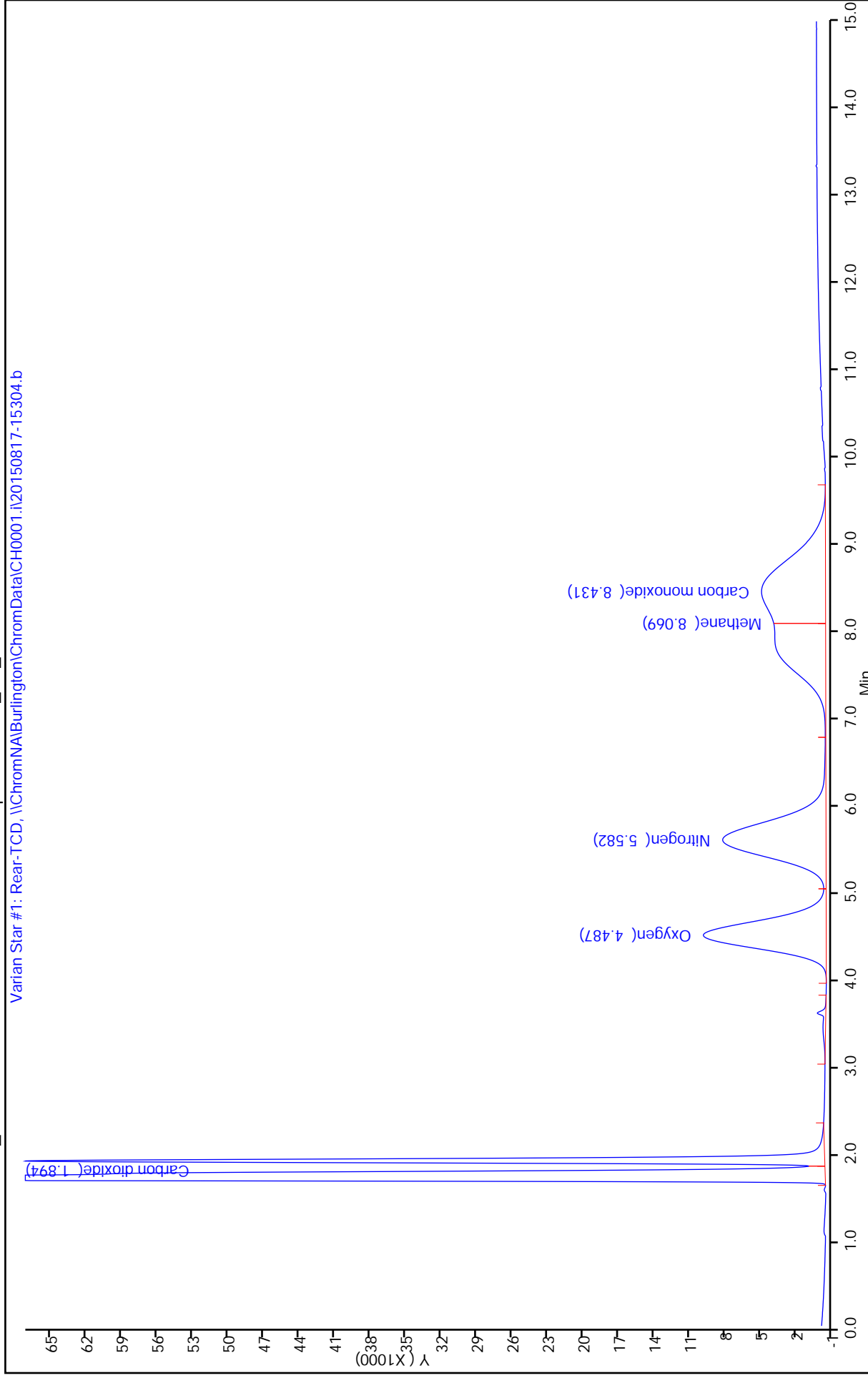
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

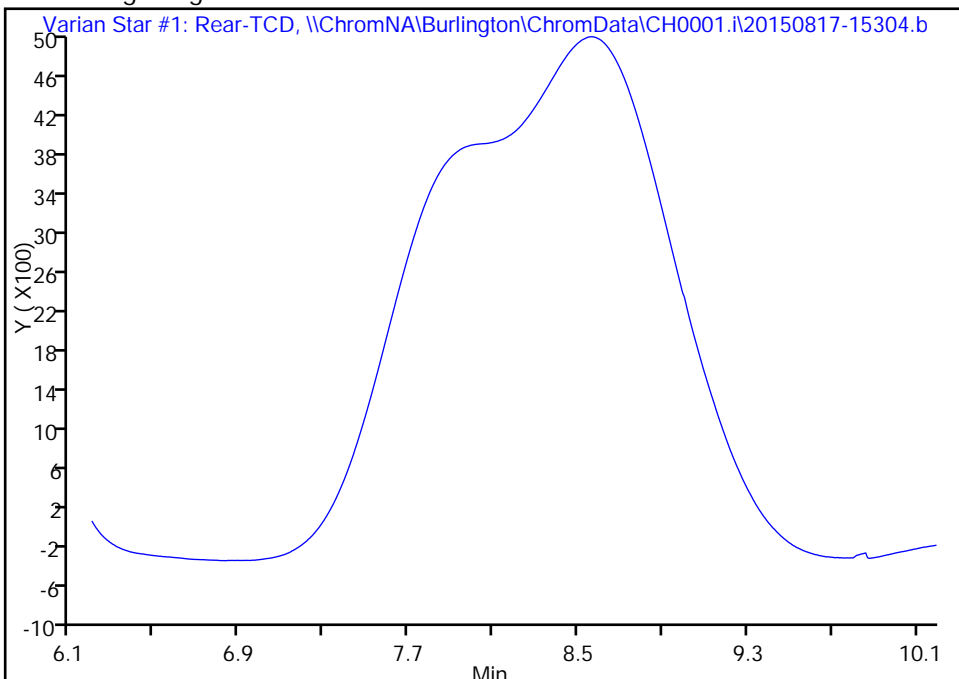
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d  
Injection Date: 17-Aug-2015 12:09:30 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

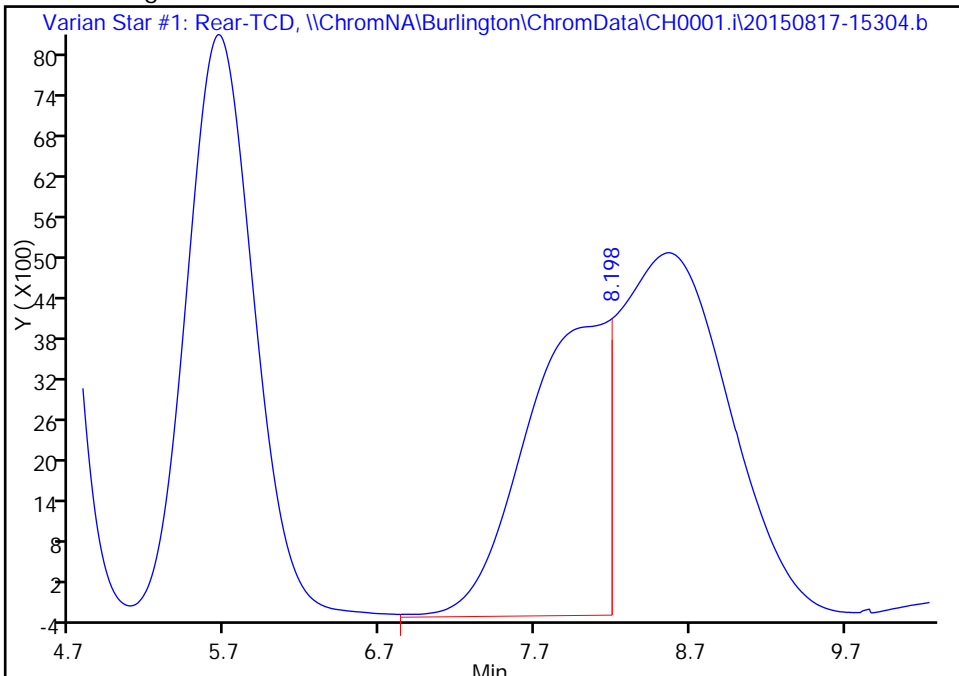
Not Detected  
Expected RT: 8.20

Processing Integration Results



RT: 8.20  
Area: 163452  
Amount: 3.990264  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:09:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

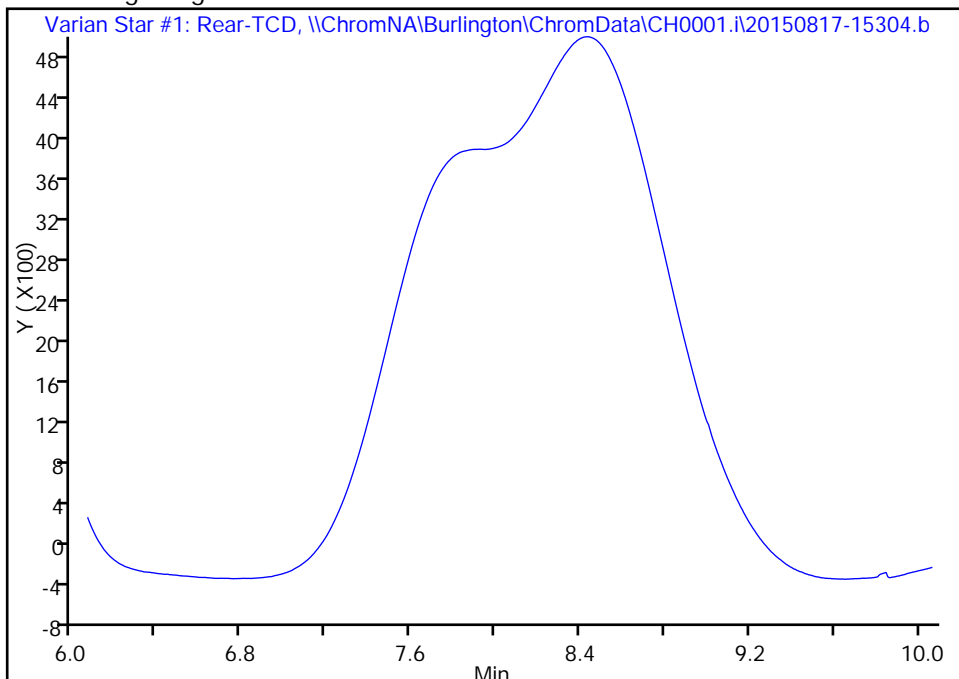
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d  
Injection Date: 17-Aug-2015 12:25:24 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 12  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

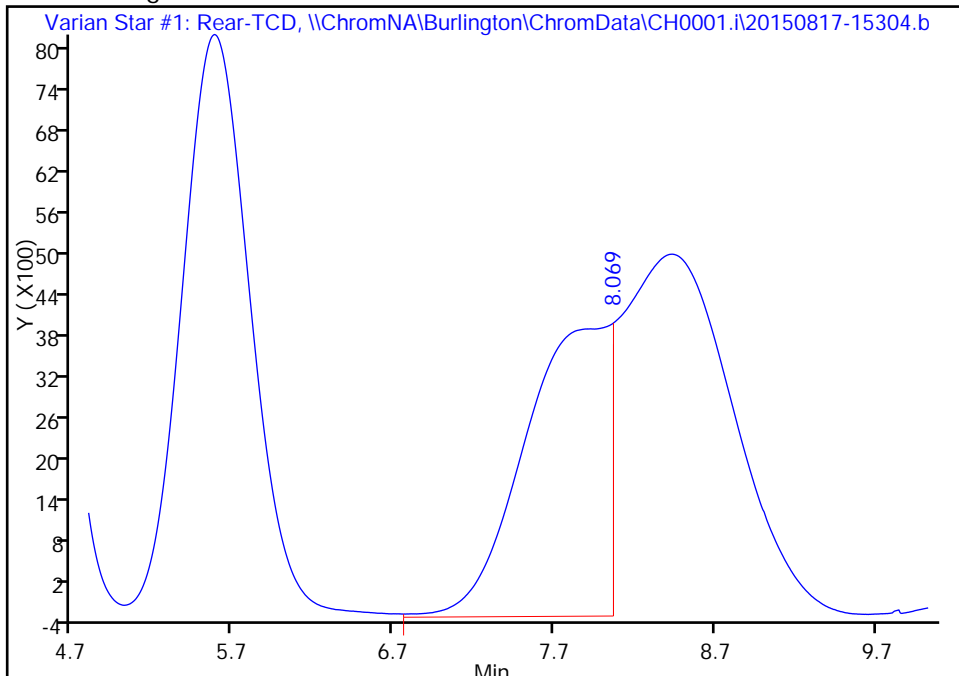
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 8.07  
Area: 158463  
Amount: 3.868471  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:10:26  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

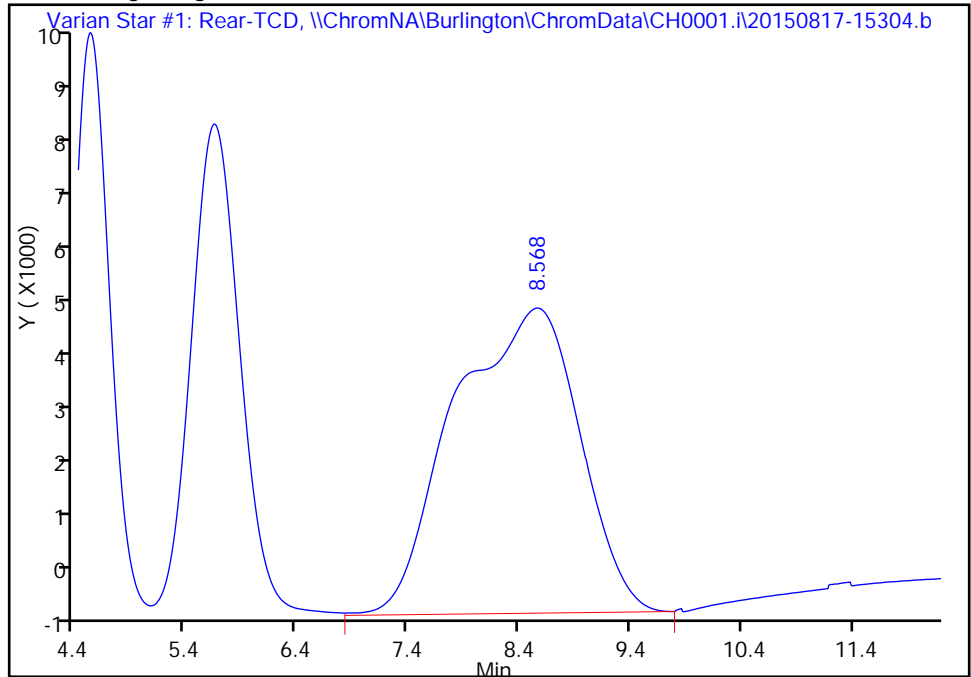
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04001.d  
Injection Date: 17-Aug-2015 12:09:30 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 11  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

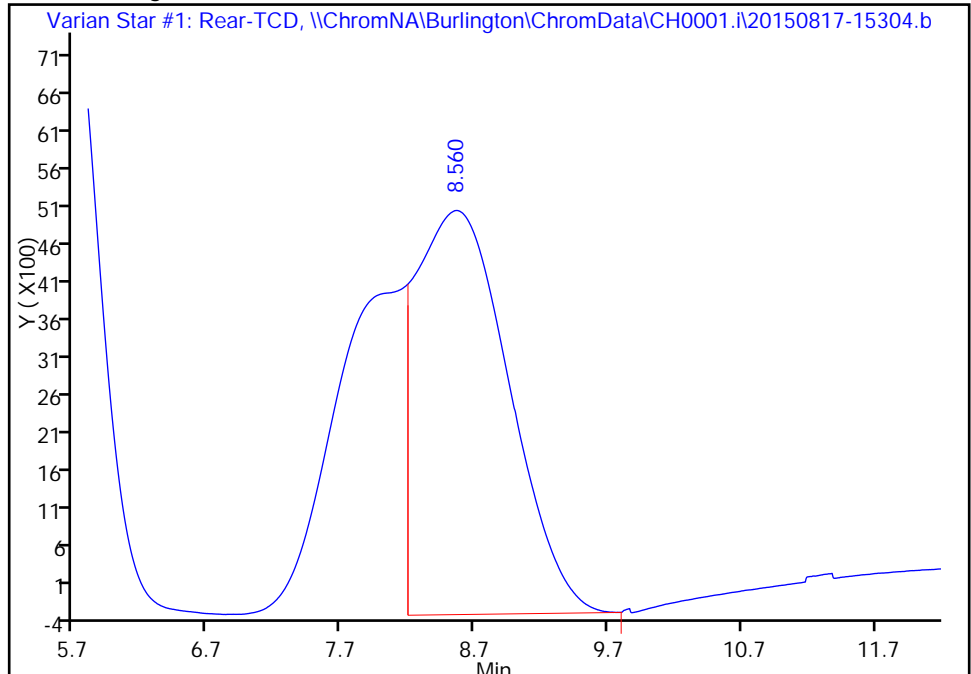
RT: 8.57  
Area: 418043  
Amount: 8.812429  
Amount Units: % v/v

Processing Integration Results



RT: 8.56  
Area: 254622  
Amount: 5.169608  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:09:14  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

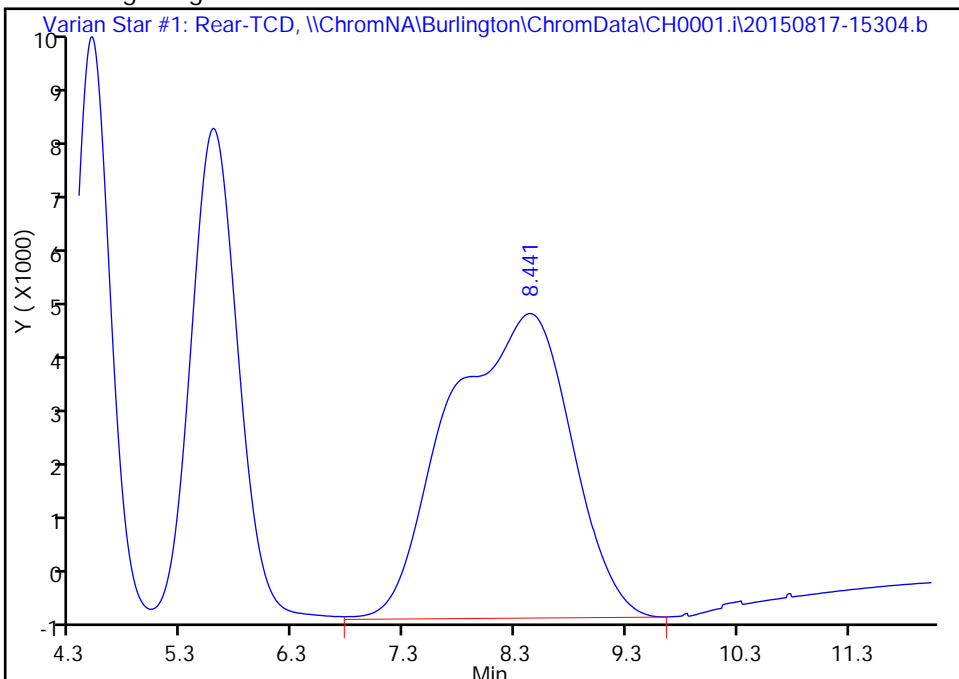
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icis-04002.d  
Injection Date: 17-Aug-2015 12:25:24 Instrument ID: CH0001.i  
Lims ID: icis  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 12  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

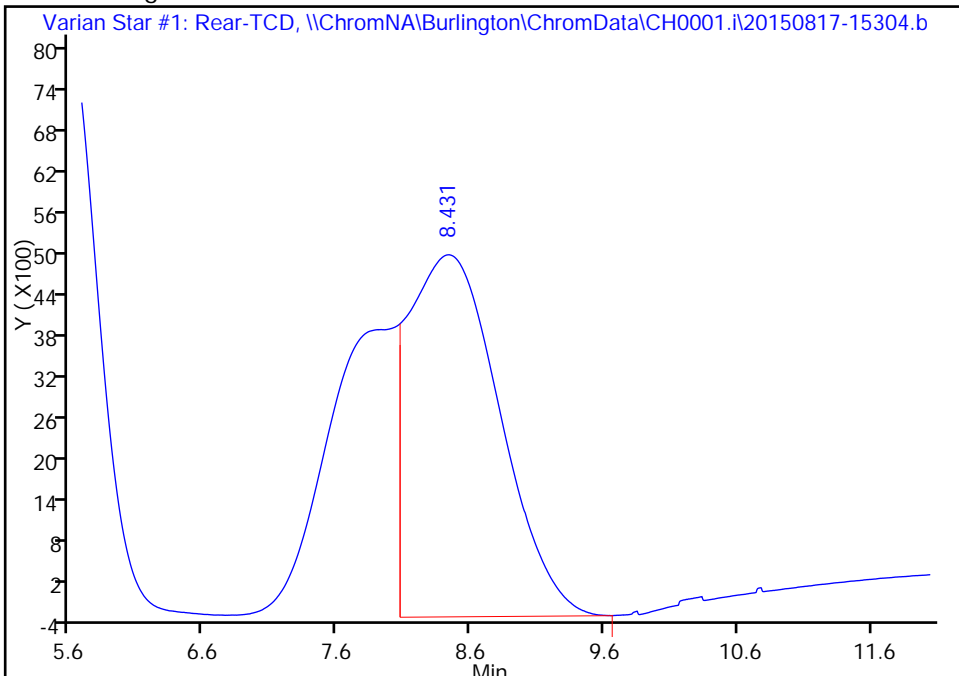
RT: 8.44  
Area: 409095  
Amount: 6.163696  
Amount Units: % v/v

Processing Integration Results



RT: 8.43  
Area: 250675  
Amount: 5.089472  
Amount Units: % v/v

Manual Integration Results



Reviewer: daiglep, 17-Aug-2015 14:10:26  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 15  
 Inject. Date: 17-Aug-2015 13:16:43 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO CAL1  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:12 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:24:12

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

5 Carbon monoxide	8.557	8.431	0.126	4702	0.1000	0.0955	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

AT3CCOCaI0.1%\_00005 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 13  
 Inject. Date: 17-Aug-2015 12:45:00 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO CAL1  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:10 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:23:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

5 Carbon monoxide	8.612	8.431	0.181	4689	0.1000	0.0952	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

AT3CCOCaI0.1%\_00005 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co cal1002-92802-ai\_3c\_lim

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co cal1-92802-ai\_3c\_limits

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon monoxide	4702	4689	4695.5	0.28

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon monoxide	0.1	0.1	0.1	0.28

----- NMOC Correction-----  
NMOC or N2 not found in quan file, NMOC correction not applied  
-----

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1002.d

Injection Date: 17-Aug-2015 13:16:43

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 15

Client ID:

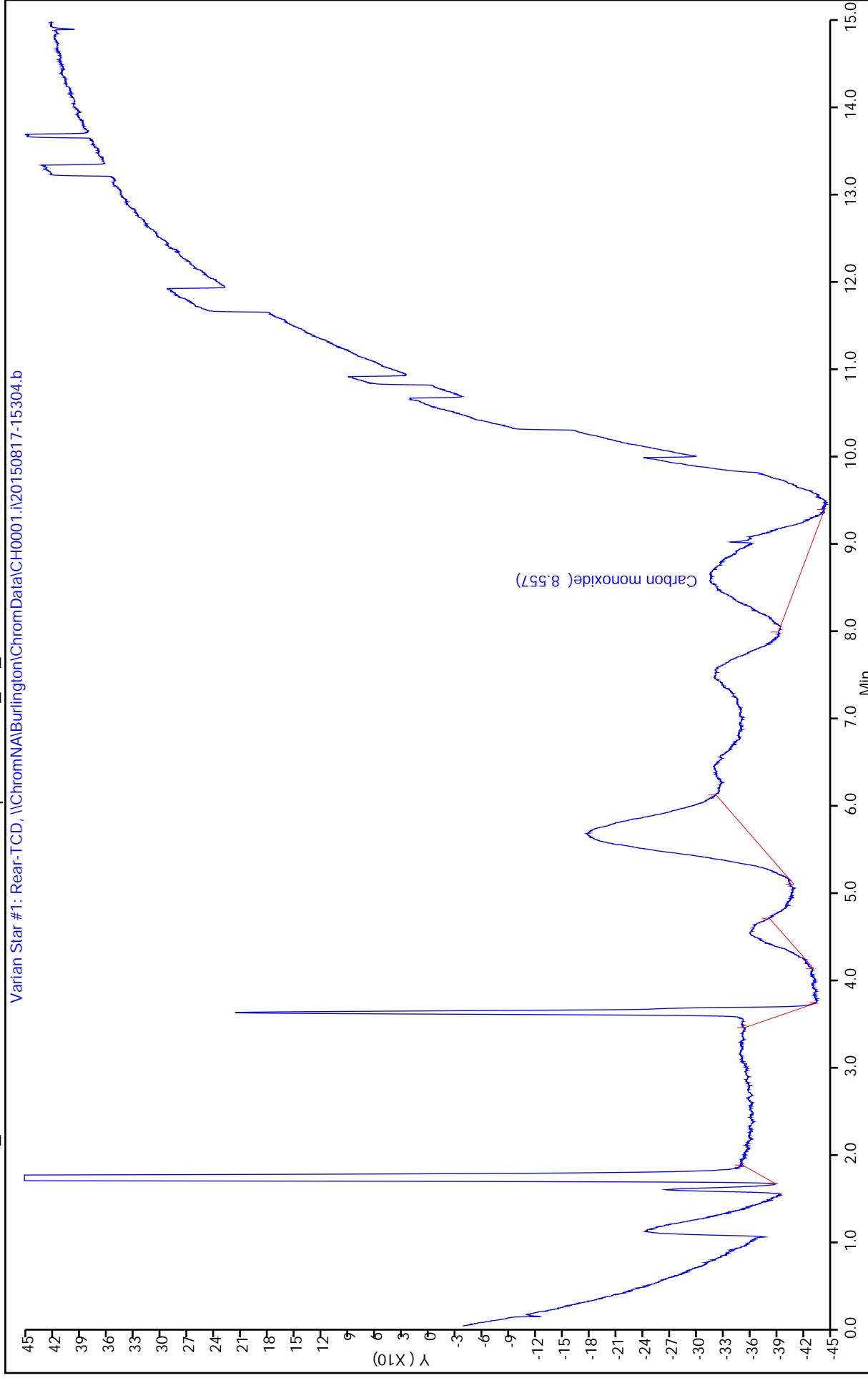
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1.d

Injection Date: 17-Aug-2015 12:45:00

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 13

Client ID:

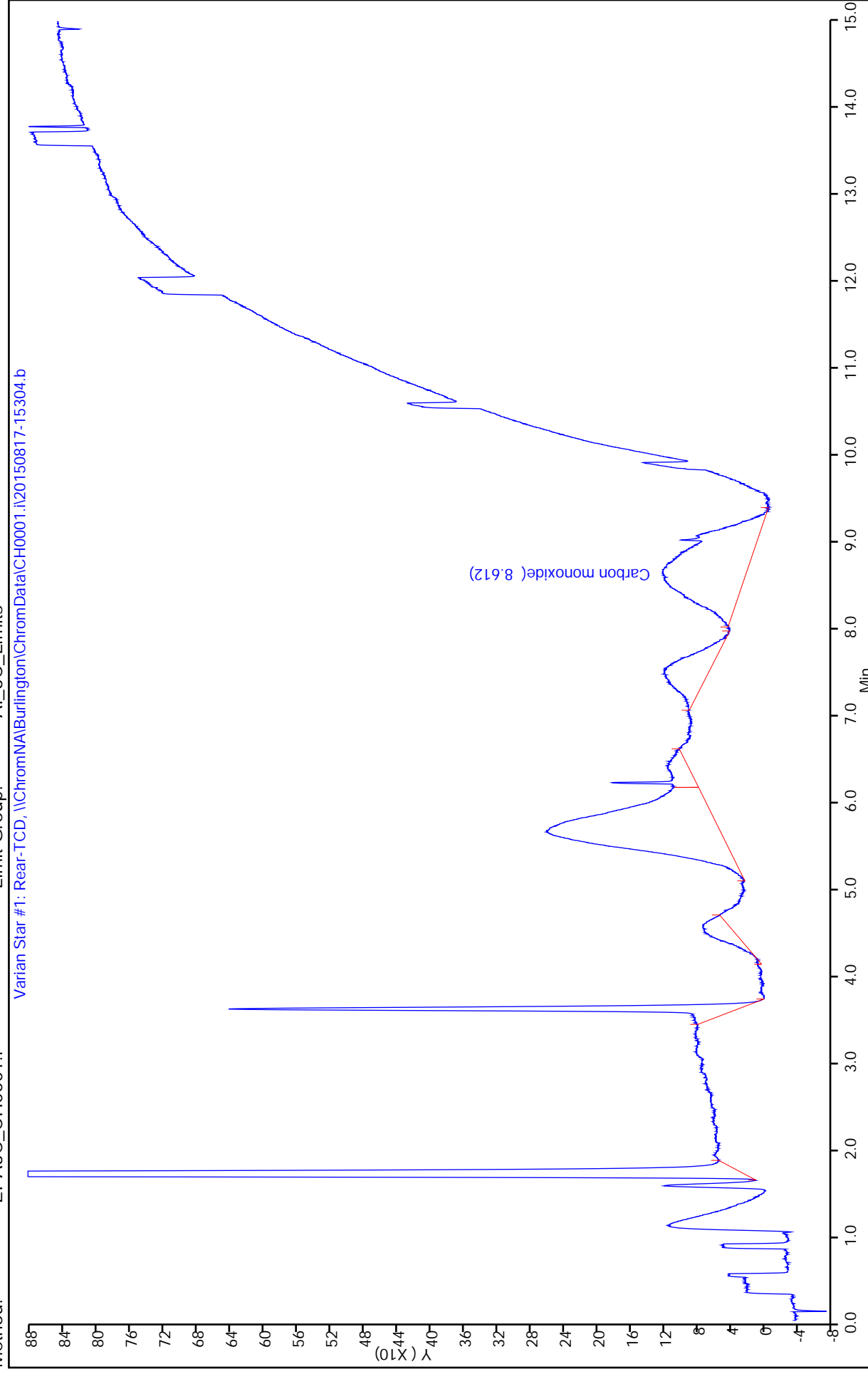
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



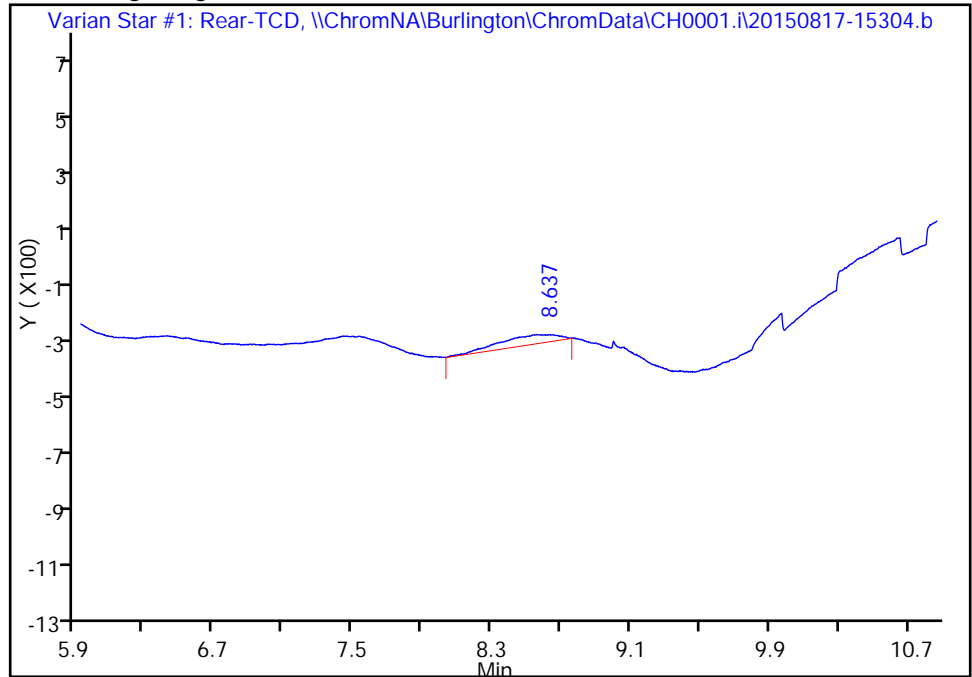
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1002.d  
Injection Date: 17-Aug-2015 13:16:43 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

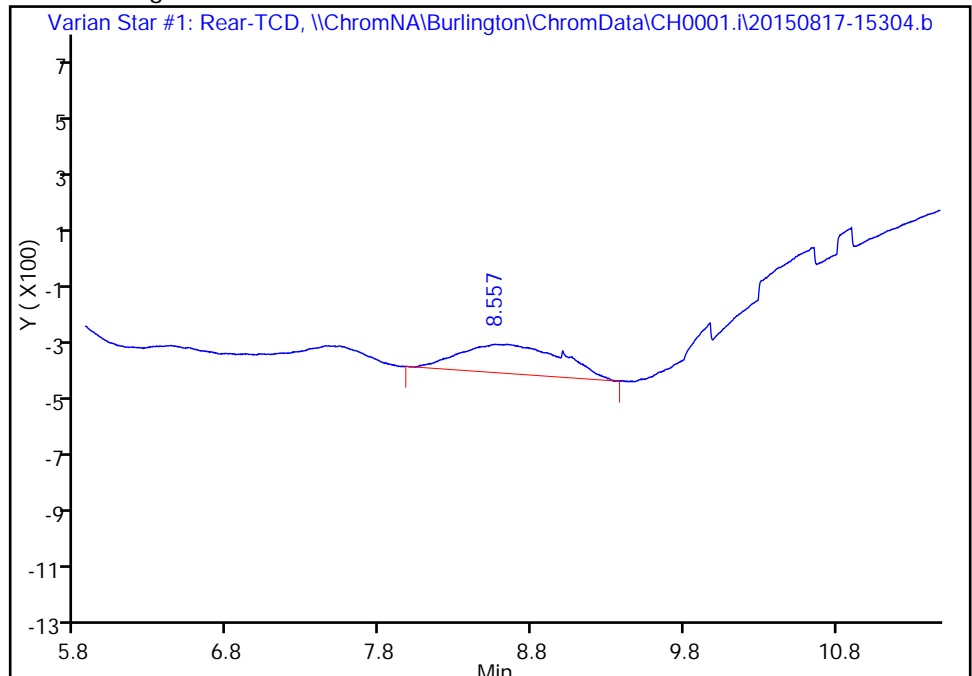
RT: 8.64  
Area: 772  
Amount: 0.016958  
Amount Units: % v/v

Processing Integration Results



RT: 8.56  
Area: 4702  
Amount: 0.095465  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:24:12  
Audit Action: Manually Integrated  
Audit Reason: Baseline Smoothing

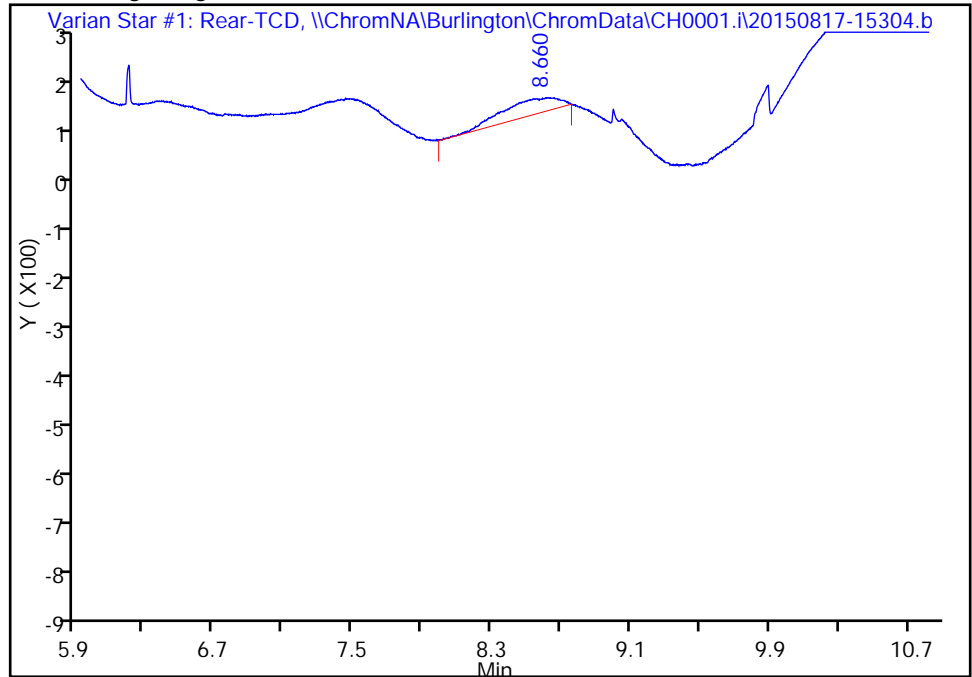
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co cal1.d  
Injection Date: 17-Aug-2015 12:45:00 Instrument ID: CH0001.i  
Lims ID: ic  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 13  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

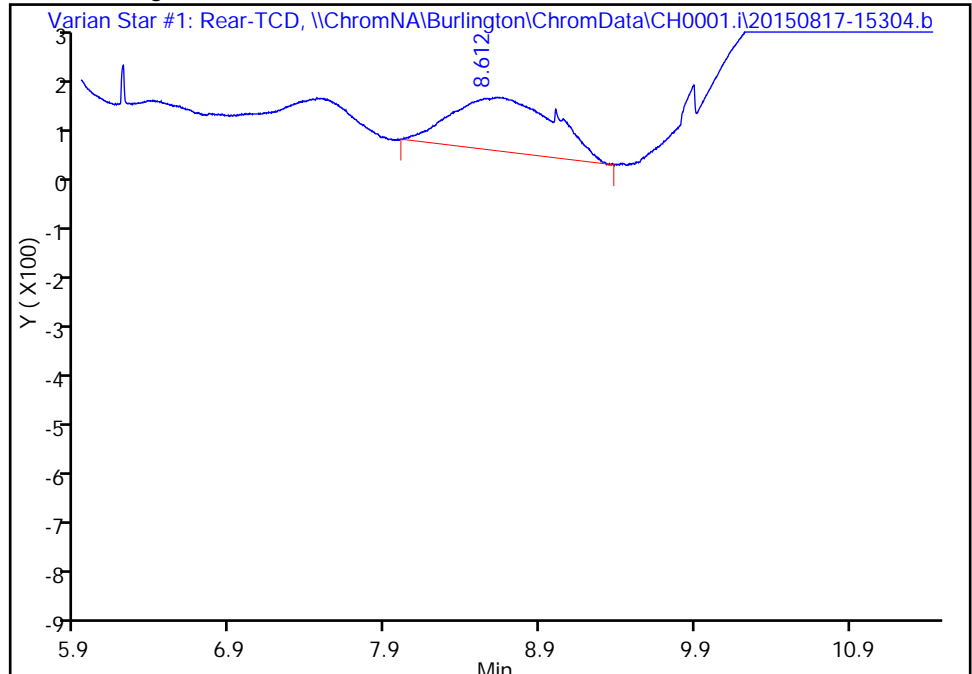
RT: 8.66  
Area: 686  
Amount: 0.017756  
Amount Units: % v/v

Processing Integration Results



RT: 8.61  
Area: 4689  
Amount: 0.095201  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:23:06  
Audit Action: Manually Integrated  
Audit Reason: Baseline Smoothing

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 17  
 Inject. Date: 17-Aug-2015 13:48:30 ALS Bottle#: 0 Worklist Smp#: 17  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO 10%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:13 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:24:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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5 Carbon monoxide	8.603	8.431	0.172	482484	10.0	9.80	
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Reagents:

AT3CCOs\_00004 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 18  
 Inject. Date: 17-Aug-2015 14:04:21 ALS Bottle#: 0 Worklist Smp#: 18  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO 10%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:14 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:24:56

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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5 Carbon monoxide	8.615	8.431	0.184	481454	10.0	9.77	
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Reagents:

AT3CCOs\_00004 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co 10%001-92802-ai\_3c\_limi

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co 10%002-92802-ai\_3c\_limi

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon monoxide	482484	481454	481969	0.21

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon monoxide	9.8	9.77	9.79	0.21

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%001.d

Injection Date: 17-Aug-2015 13:48:30

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 17

Client ID:

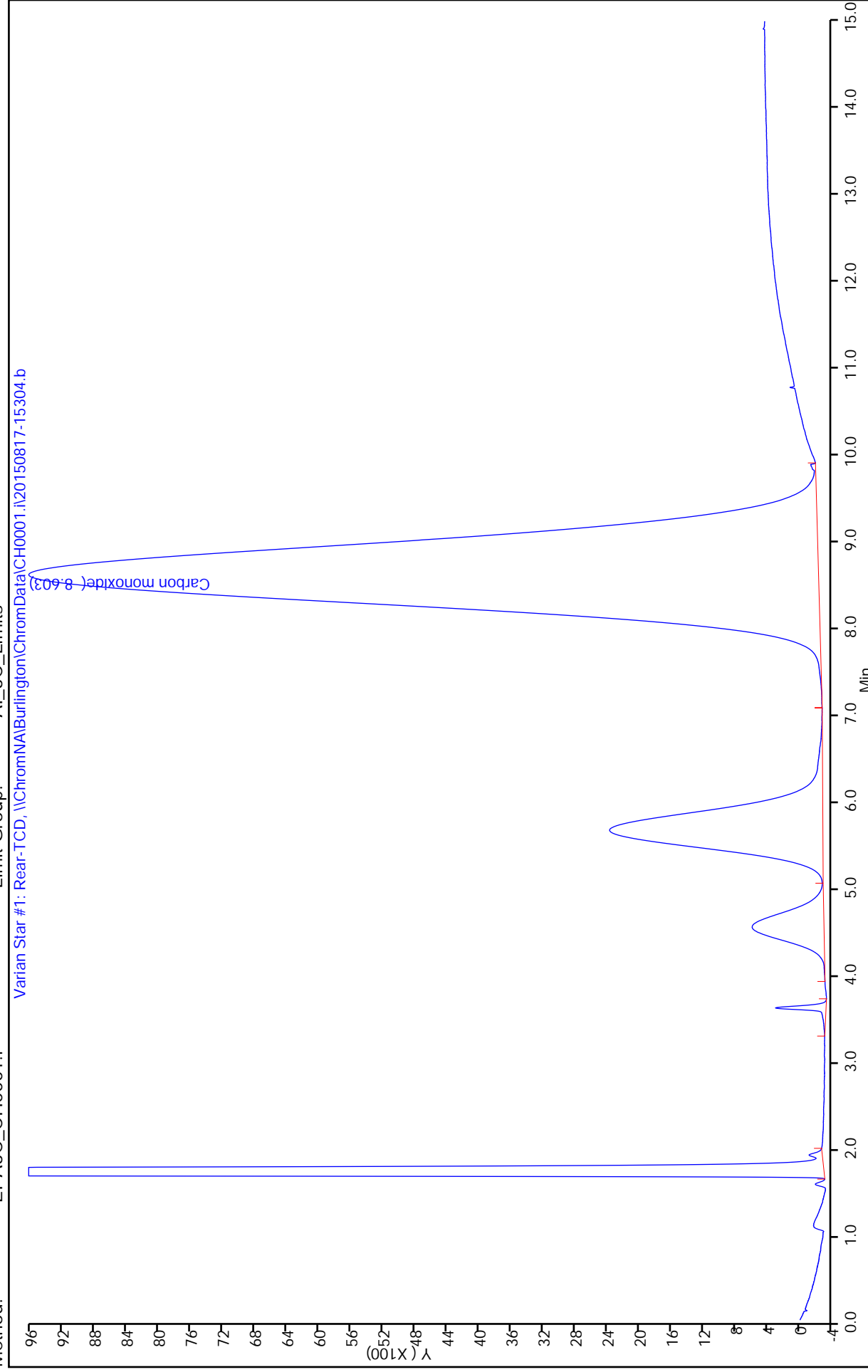
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co 10%002.d

Injection Date: 17-Aug-2015 14:04:21

Instrument ID: CH0001.i

Lims ID: ic

Operator ID: BPL

Worklist Smp#: 18

Client ID:

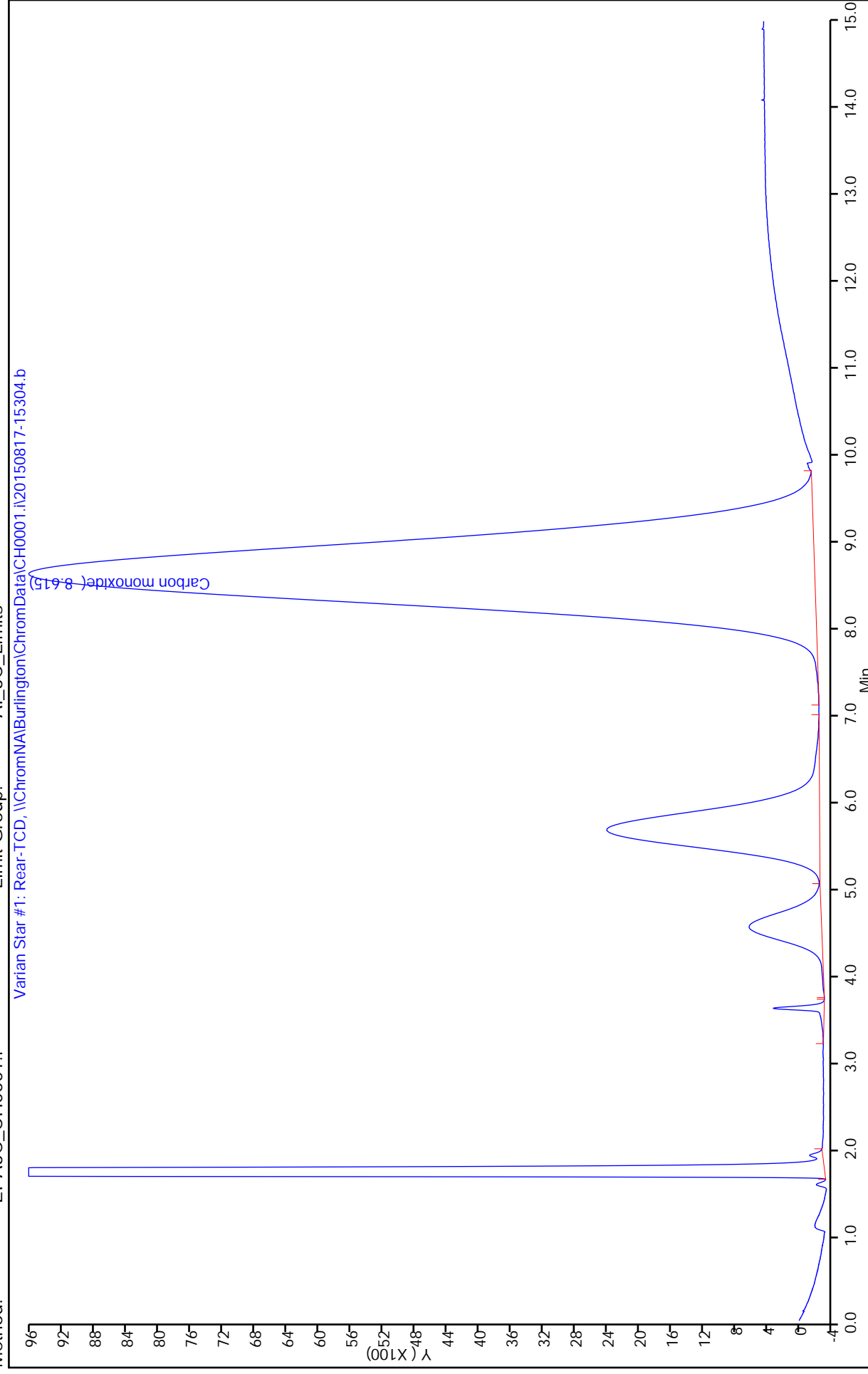
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 23  
 Inject. Date: 17-Aug-2015 15:46:20 ALS Bottle#: 0 Worklist Smp#: 23  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CH4 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:19 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

4 Methane	7.760	8.069	-0.309	4384076	99.0	107.0	
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Reagents:

AT3CMETHs\_00007 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 24  
 Inject. Date: 17-Aug-2015 16:02:11 ALS Bottle#: 0 Worklist Smp#: 24  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CH4 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:20 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:26

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

4 Methane	7.771	8.069	-0.298	4399378	99.0	107.4	
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Reagents:

AT3CMETHs\_00007 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ch4 100%001-92802-ai\_3c\_li

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\ch4 100%002-92802-ai\_3c\_li

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Methane	4384076	4399378	4391727	0.35

Analyte	Conc1	Conc2	Avg Conc	RPD
Methane	107.03	107.4	107.21	0.35

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%001.d

Injection Date: 17-Aug-2015 15:46:20

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 23

Client ID:

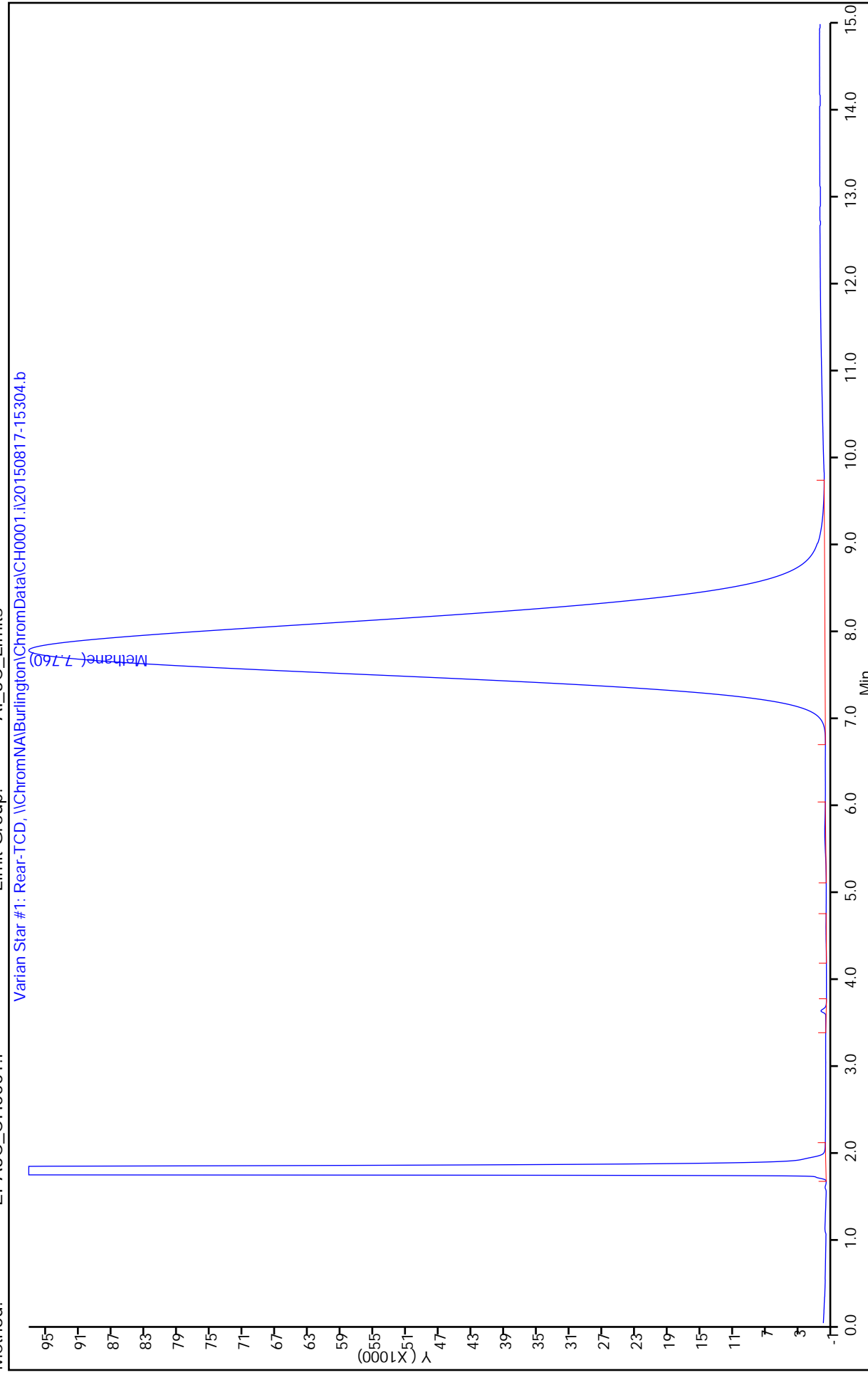
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits





Report Date: 19-Aug-2015 16:13:20

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ch4 100%002.d

Injection Date: 17-Aug-2015 16:02:11

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 24

Client ID:

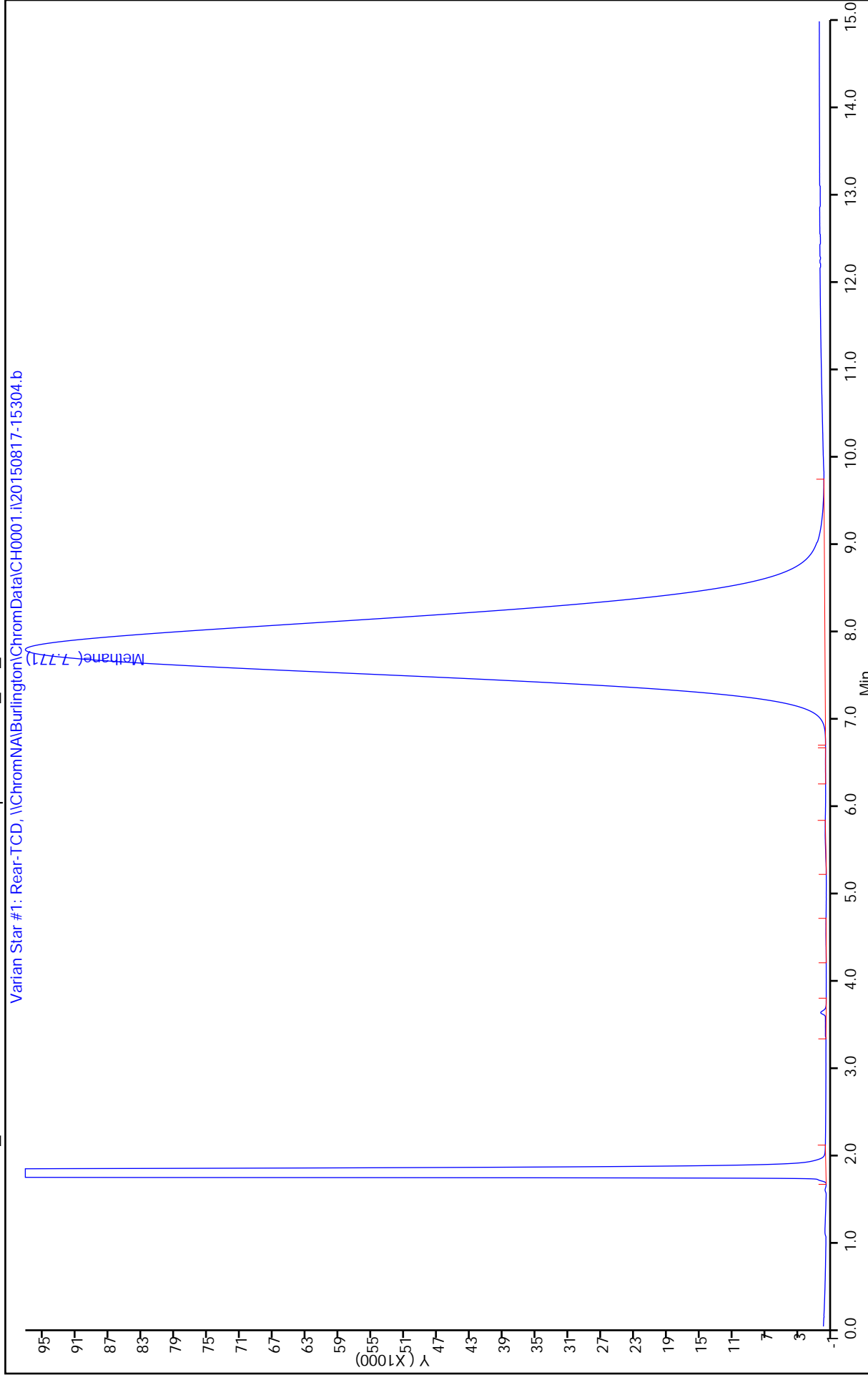
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%001.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 20  
 Inject. Date: 17-Aug-2015 14:58:43 ALS Bottle#: 0 Worklist Smp#: 20  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:16 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:25:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Carbon dioxide	1.857	1.894	-0.037	4474498	100.0	100.8	
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Reagents:

AT3CCO2s\_00009 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 21  
 Inject. Date: 17-Aug-2015 15:14:35 ALS Bottle#: 0 Worklist Smp#: 21  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: CO2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:17 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:25:23

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Carbon dioxide	1.858	1.894	-0.036	4511134	100.0	101.6	
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Reagents:

AT3CCO2s\_00009 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co2 100%001-92802-ai\_3c\_li

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\co2 100%002-92802-ai\_3c\_li

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	4474498	4511134	4492816	0.82

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	100.81	101.64	101.22	0.82

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:16

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%001.d

Injection Date: 17-Aug-2015 14:58:43

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 20

Client ID:

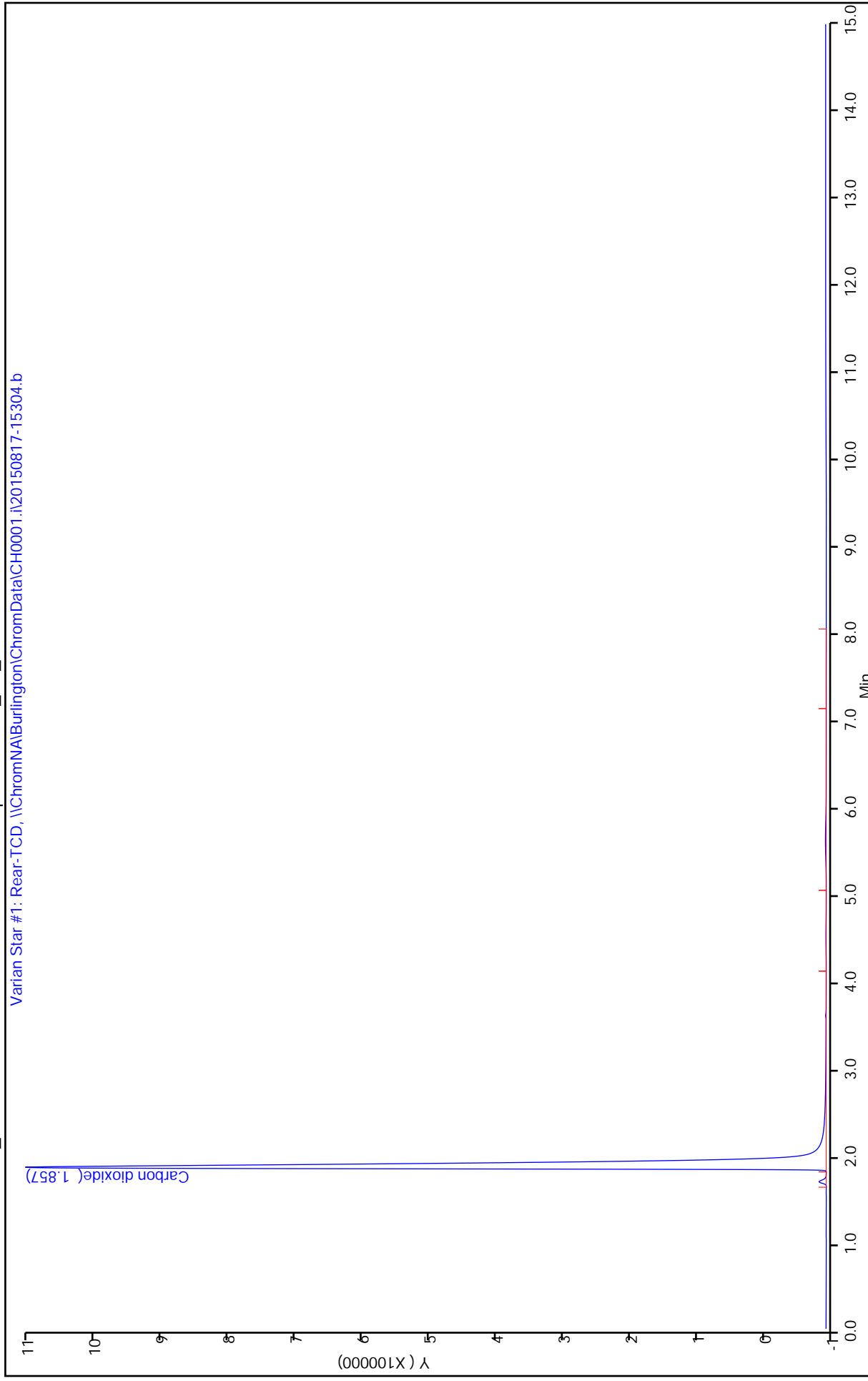
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

Report Date: 19-Aug-2015 16:13:18

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\co2 100%002.d

Injection Date: 17-Aug-2015 15:14:35

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 21

Client ID:

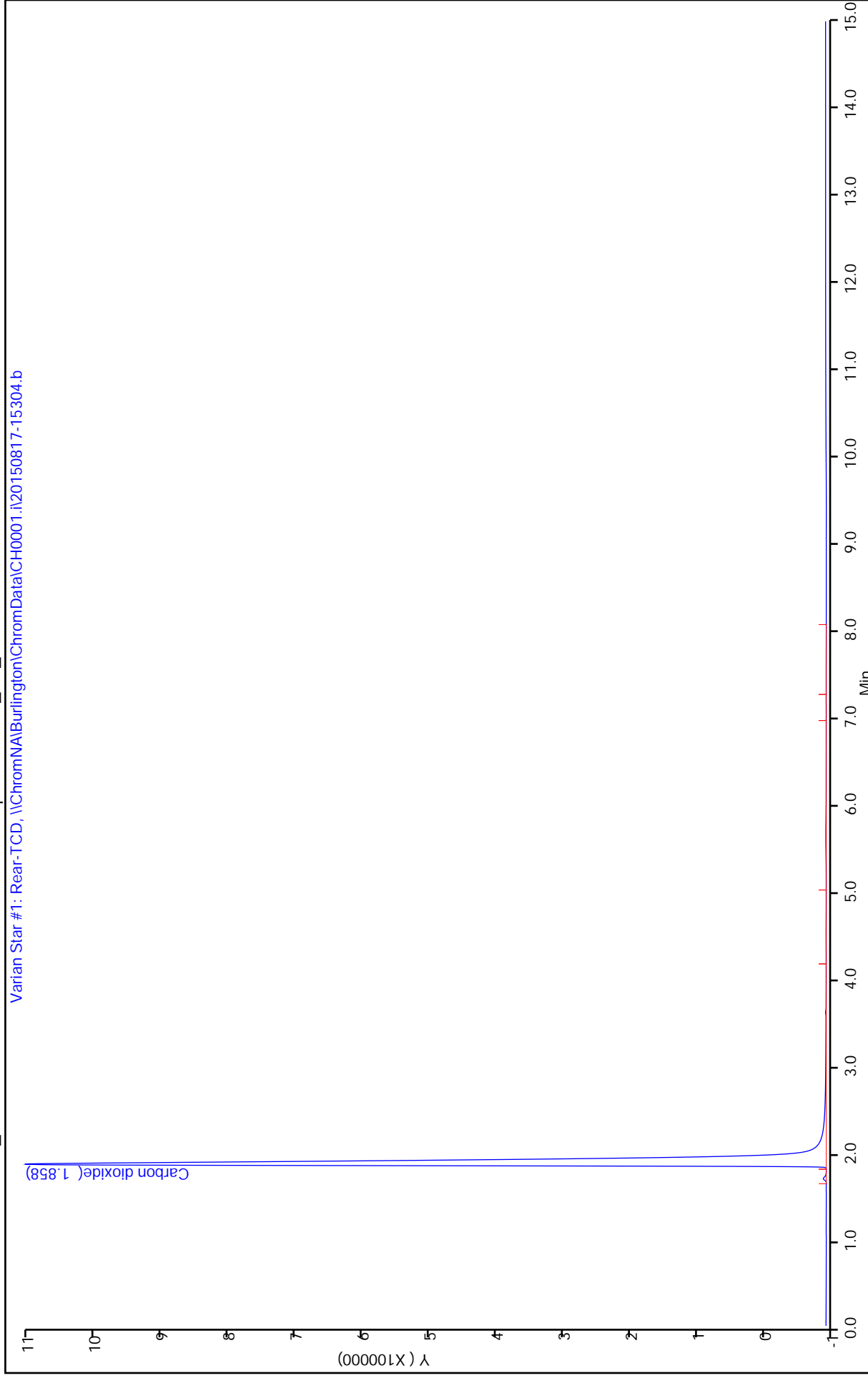
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 27  
 Inject. Date: 17-Aug-2015 16:49:48 ALS Bottle#: 0 Worklist Smp#: 27  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: zero air  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:22 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

2 Oxygen	4.482	4.487	-0.005	974686	22.0	19.4	
3 Nitrogen	5.539	5.582	-0.043	3996994	78.0	71.6	

Reagents:

AT3Czeroair\_00007 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 25  
 Inject. Date: 17-Aug-2015 16:18:02 ALS Bottle#: 0 Worklist Smp#: 25  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: zero air  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:21 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:26:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
2 Oxygen	4.521	4.487	0.034	986213	22.0	19.6	
3 Nitrogen	5.577	5.582	-0.005	4009010	78.0	71.8	

Reagents:

AT3Czeroair\_00007 Amount Added: 2.00 Units: mL



Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\zero air002-92802-ai\_3c\_li

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\zero air-92802-ai\_3c\_limit

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Oxygen	974686	986213	980449.5	1.18
Nitrogen	3996994	4009010	4003002	0.3

Analyte	Conc1	Conc2	Avg Conc	RPD
Oxygen	19.4	19.63	19.52	1.18
Nitrogen	71.59	71.81	71.7	0.3

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:23

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air002.d

Injection Date: 17-Aug-2015 16:49:48

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 27

Client ID:

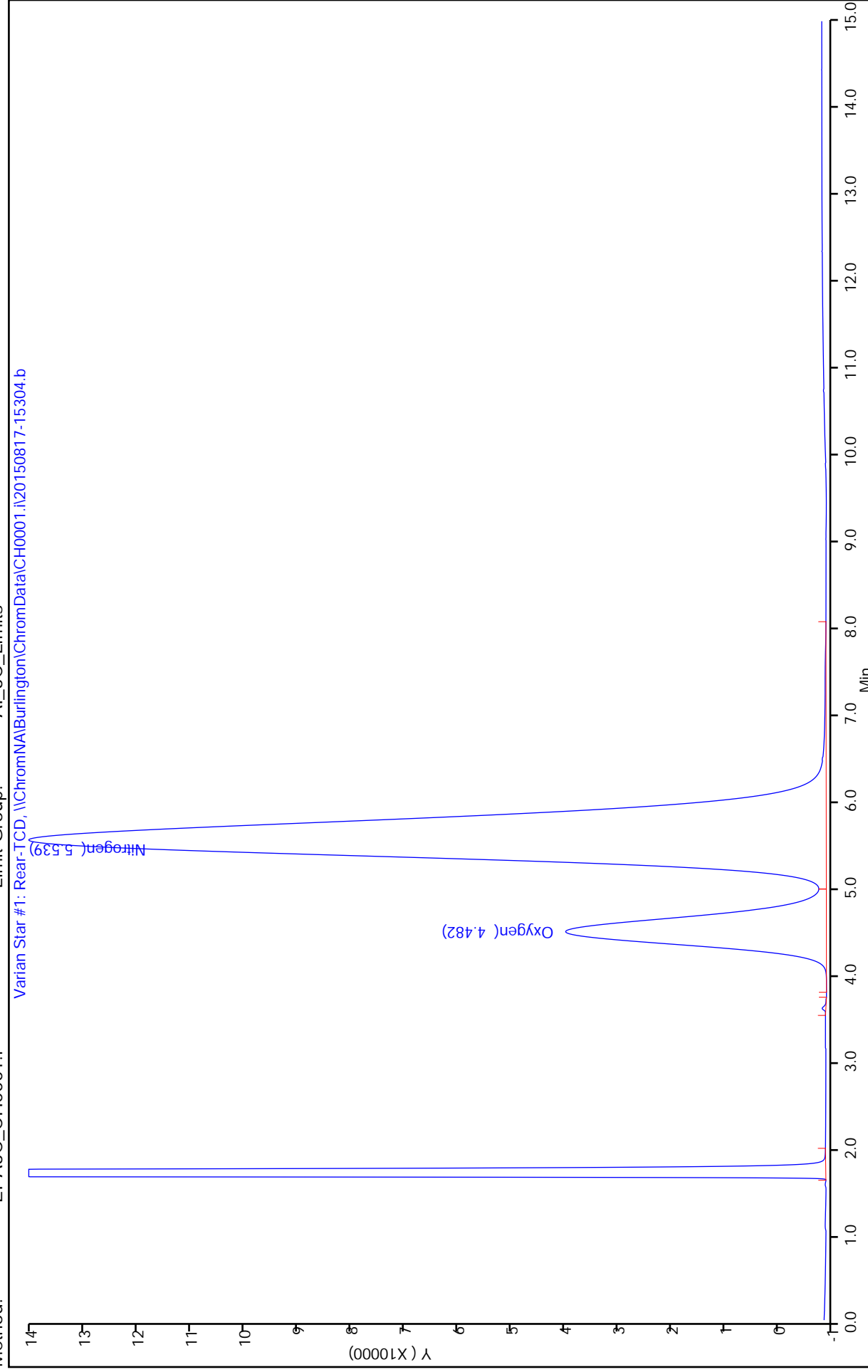
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:13:22

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\zero air.d

Injection Date: 17-Aug-2015 16:18:02

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 25

Client ID:

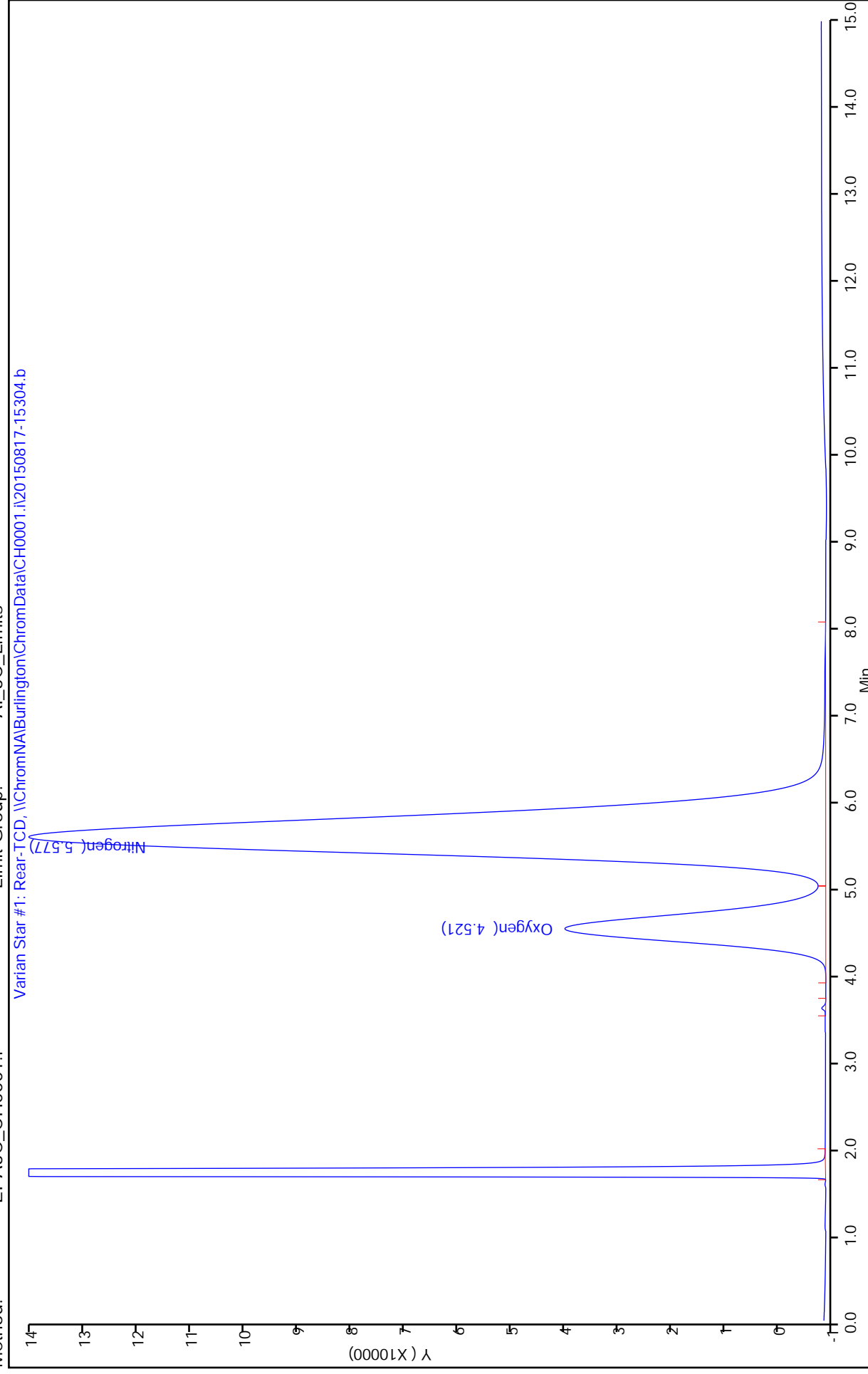
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 30  
 Inject. Date: 17-Aug-2015 17:37:25 ALS Bottle#: 0 Worklist Smp#: 30  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: N2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:25 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:28:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
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3 Nitrogen	5.568	5.582	-0.014	5088530	100.0	91.1	
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Reagents:

ATnitrogens\_00008 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%.d  
 Lims ID: ic  
 Client ID:  
 Sample Type: IC Calib Level: 28  
 Inject. Date: 17-Aug-2015 17:05:40 ALS Bottle#: 0 Worklist Smp#: 28  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: N2 100%  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:24 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK025

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:27:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

3 Nitrogen	5.539	5.582	-0.043	5068877	100.0	90.8	
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Reagents:

ATnitrogens\_00008 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\n2 100%002-92802-ai\_3c\_lim

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\n2 100%-92802-ai\_3c\_limits

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Nitrogen	5088530	5068877	5078703.5	0.39

Analyte	Conc1	Conc2	Avg Conc	RPD
Nitrogen	91.14	90.79	90.97	0.39

----- NMOC Correction-----

NMOC or N2 not found in quan file, NMOC correction not applied

Report Date: 19-Aug-2015 16:13:26

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\2 100%002.d

Injection Date: 17-Aug-2015 17:37:25

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 30

Client ID:

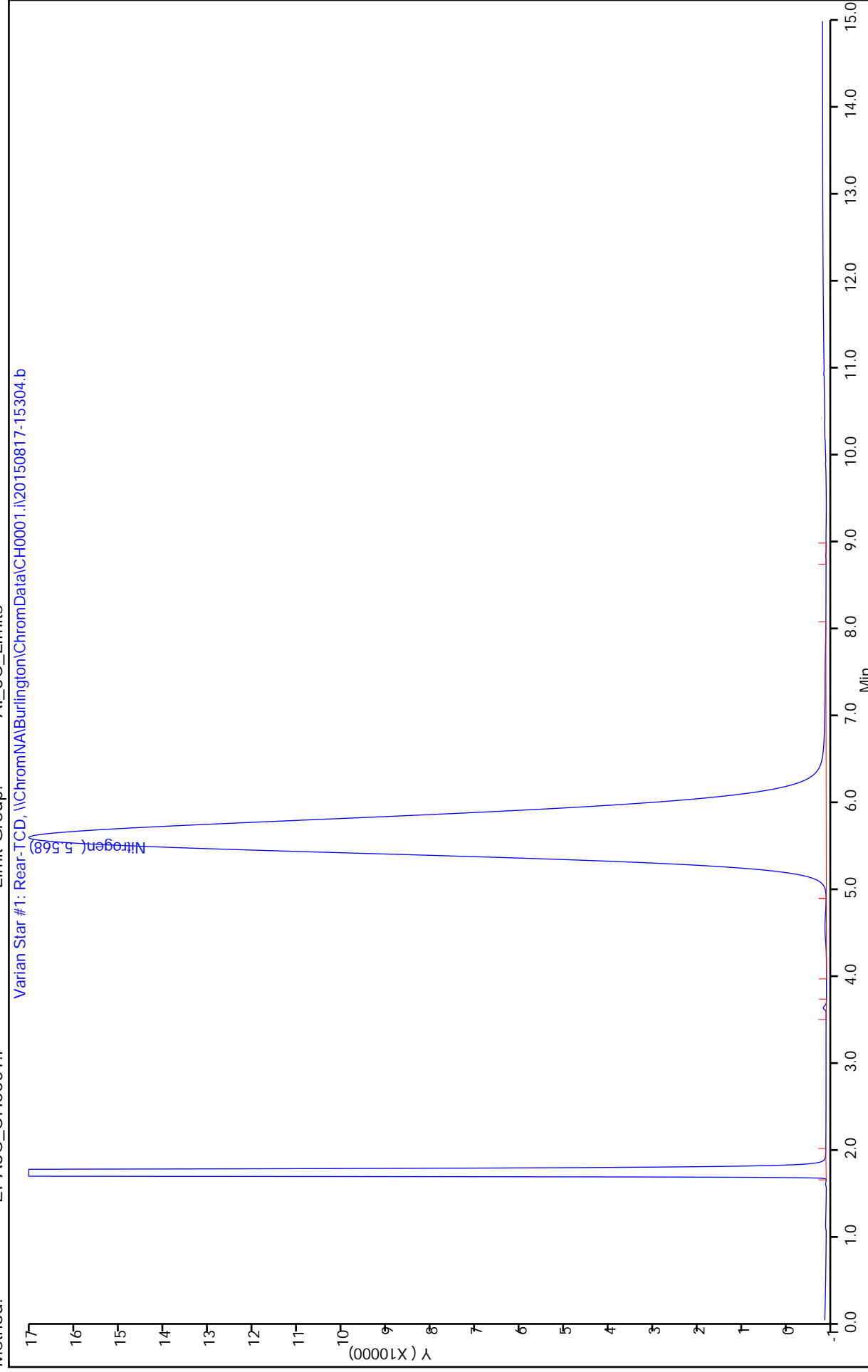
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 19-Aug-2015 16:13:24

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\ln2 100%.d

Injection Date: 17-Aug-2015 17:05:40

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ic

Worklist Smp#: 28

Client ID:

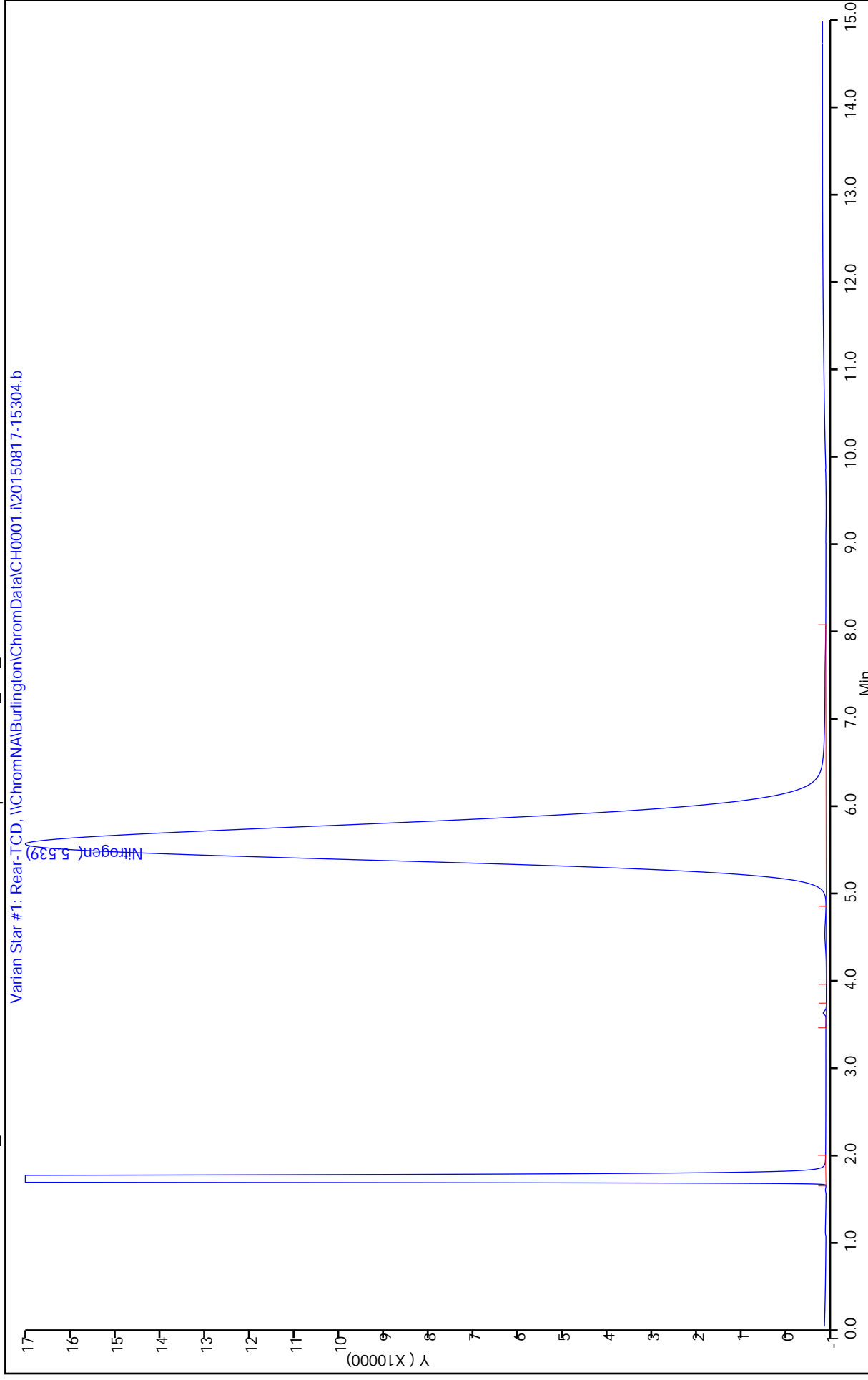
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits





FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab Sample ID: ICV 200-92935/10 Calibration Date: 08/17/2015 18:25  
 Instrument ID: CH0001.i Calib Start Date: 08/17/2015 09:23  
 GC Column: CTR-1 ID: 3.18 (mm) Calib End Date: 08/17/2015 17:37  
 Lab File ID: icv002.d-avg Conc. Units: % v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	44385	45990		5.15	5.00	3.6	30.0
Oxygen	Ave	50234	47706		4.68	5.00	-5.0	30.0
Nitrogen	Ave	55830	53905		4.74	5.00	-3.4	30.0
Methane	Ave	40963	38843		3.75	4.00	-5.2	30.0
Carbon monoxide	Ave	49254	50653		5.23	5.00	2.8	30.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 17-Aug-2015 18:25:03 ALS Bottle#: 0 Worklist Smp#: 33  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: icv  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:25 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d

Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK002

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:49:31

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.908	1.894	0.014	229951	5.00	5.18	
2 Oxygen	4.555	4.487	0.068	238531	5.00	4.75	
3 Nitrogen	5.672	5.582	0.090	269524	5.00	4.83	
4 Methane	8.170	8.069	0.101	155371	4.00	3.79	M
5 Carbon monoxide	8.538	8.431	0.107	253267	5.00	5.14	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CLCSs\_00003 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 17-Aug-2015 18:40:54 ALS Bottle#: 0 Worklist Smp#: 34  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: icv  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 19-Aug-2015 16:13:25 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d

Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK002

First Level Reviewer: desjardinsb Date: 18-Aug-2015 09:51:19

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.892	1.894	-0.002	226811	5.00	5.11	
2 Oxygen	4.495	4.487	0.008	231670	5.00	4.61	
3 Nitrogen	5.597	5.582	0.015	260103	5.00	4.66	
4 Methane	8.068	8.069	-0.001	151642	4.00	3.70	M
5 Carbon monoxide	8.459	8.431	0.028	262098	5.00	5.32	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AT3CLCSs\_00003 Amount Added: 2.00 Units: mL

Processing 3C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icv002-92802-ai\_3c\_limits-  
\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-3hutch\icv003-92802-ai\_3c\_limits-

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	RPD
Carbon dioxide	229951	226811	228381	1.37
Oxygen	238531	231670	235100.5	2.92
Nitrogen	269524	260103	264813.5	3.56
Methane	155371	151642	153506.5	2.43
Carbon monoxide	253267	262098	257682.5	3.43

Analyte	Conc1	Conc2	Avg Conc	RPD
Carbon dioxide	5.18	5.11	5.15	1.37
Oxygen	4.75	4.61	4.68	2.92
Nitrogen	4.83	4.66	4.74	3.56
Methane	3.79	3.7	3.75	2.43
Carbon monoxide	5.14	5.32	5.23	3.43

----- NMOC Correction-----

NMOC correction not requested, NMOC correction not applied

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d

Injection Date: 17-Aug-2015 18:25:03

Instrument ID: CH0001.i

Lims ID: icv

Operator ID: BPL

Worklist Smp#: 33

Client ID:

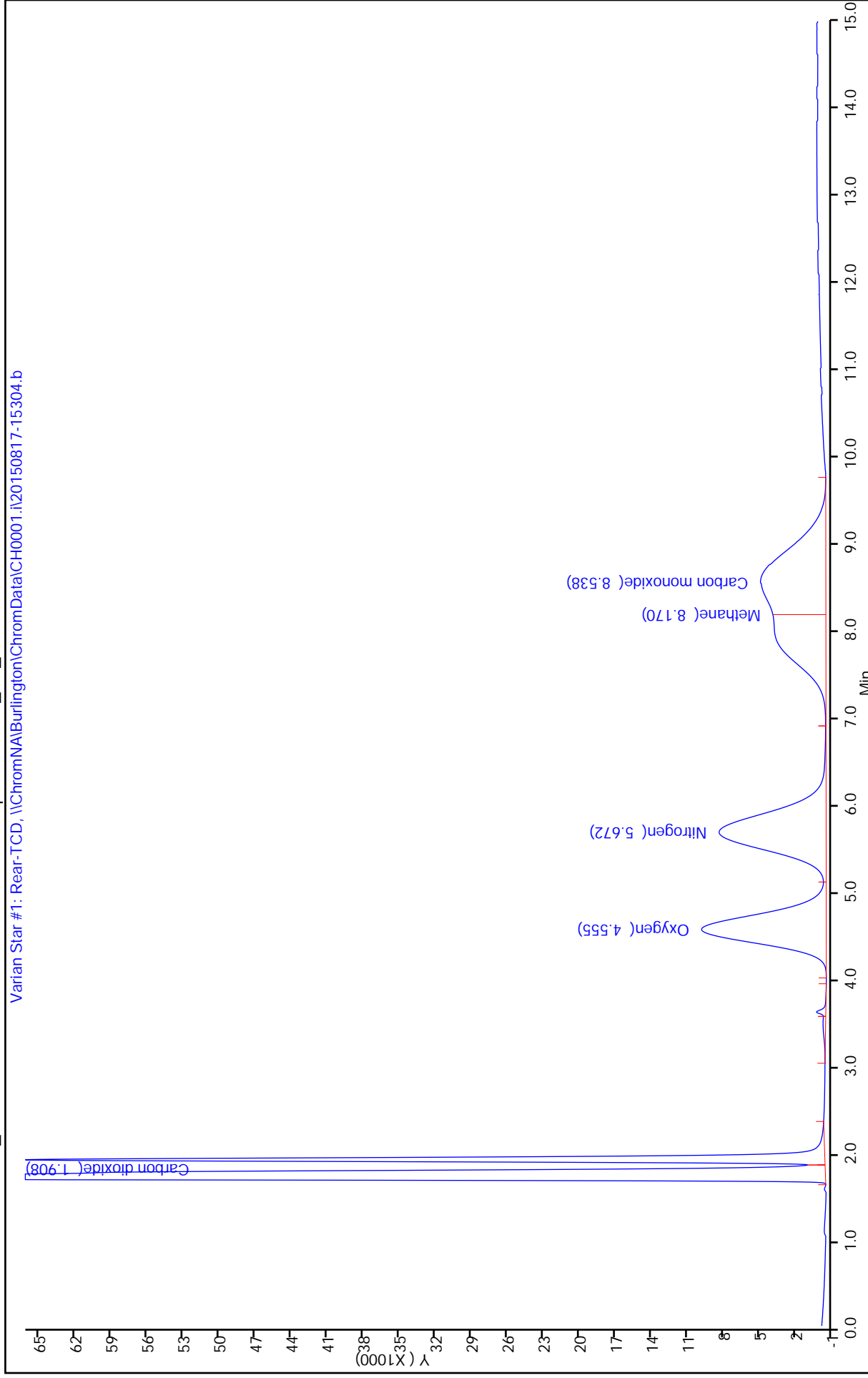
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 20-Aug-2015 12:44:40

Chrom Revision: 2.2 23-Jul-2015 08:26:08

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d

Injection Date: 17-Aug-2015 18:40:54

Instrument ID: CH0001.i

Lims ID: icv

Operator ID: BPL

Worklist Smp#: 34

Client ID:

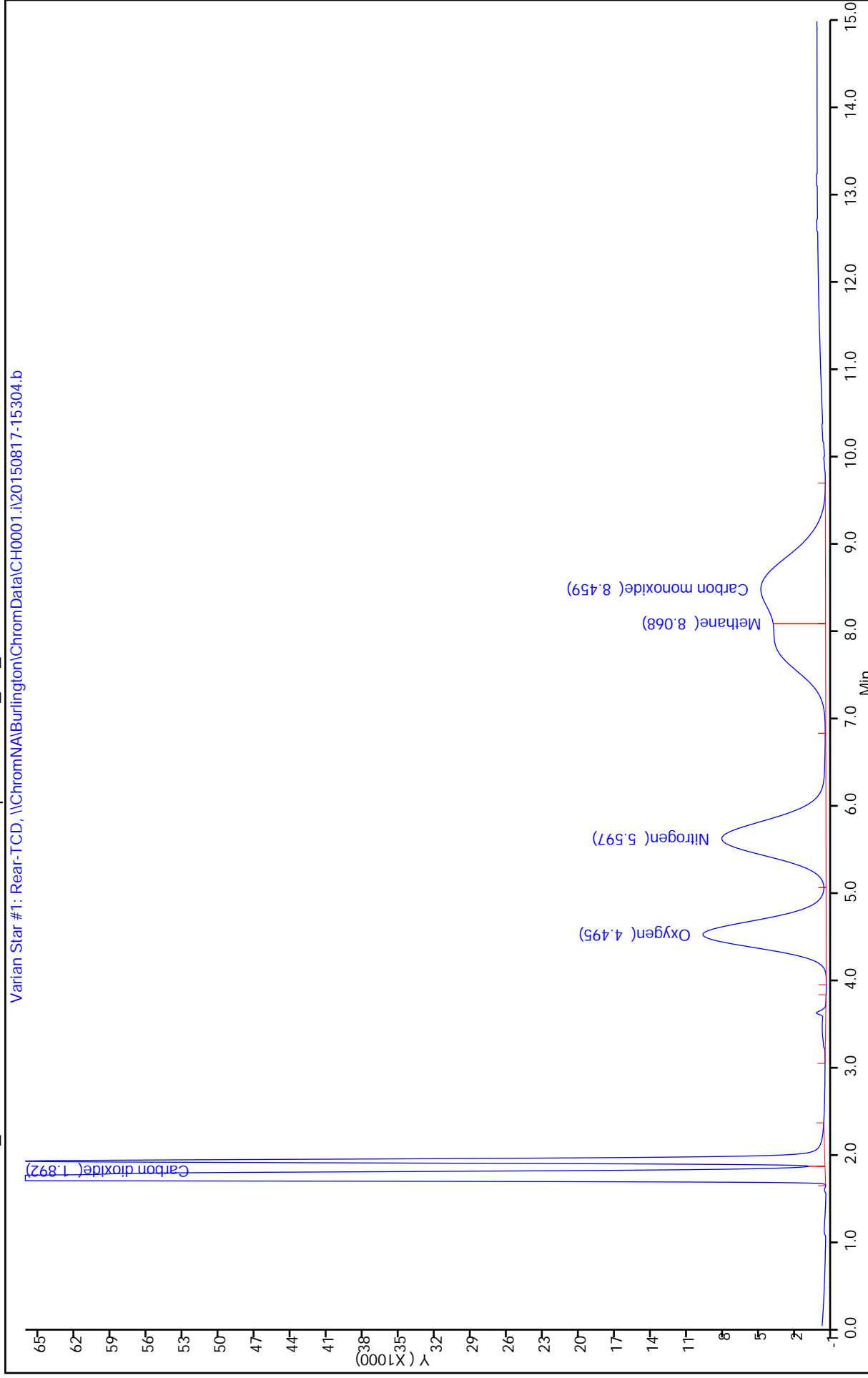
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



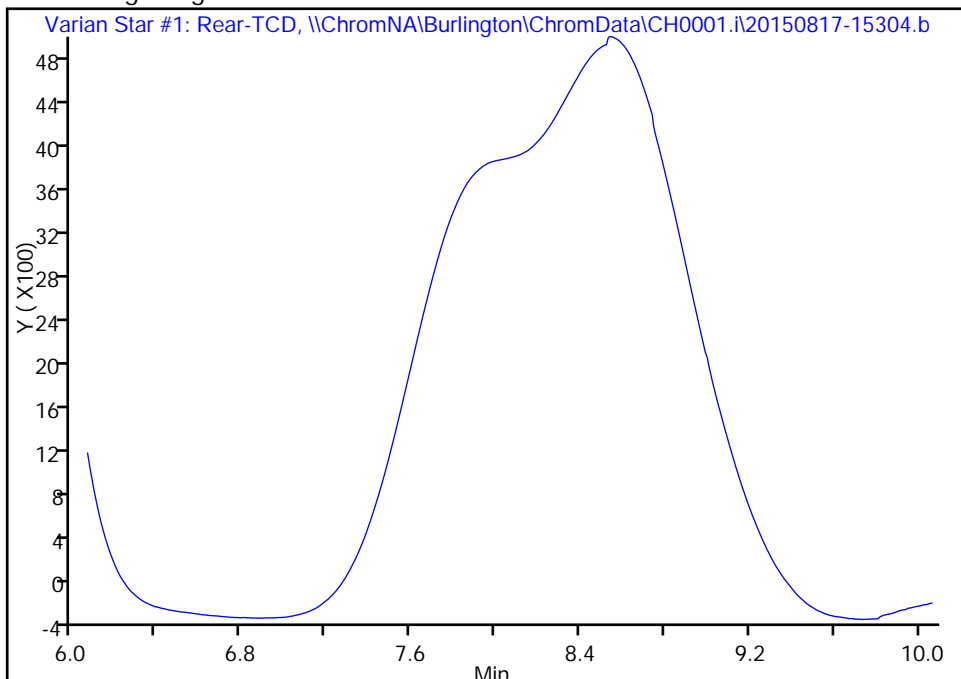
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d  
Injection Date: 17-Aug-2015 18:25:03 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 33  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

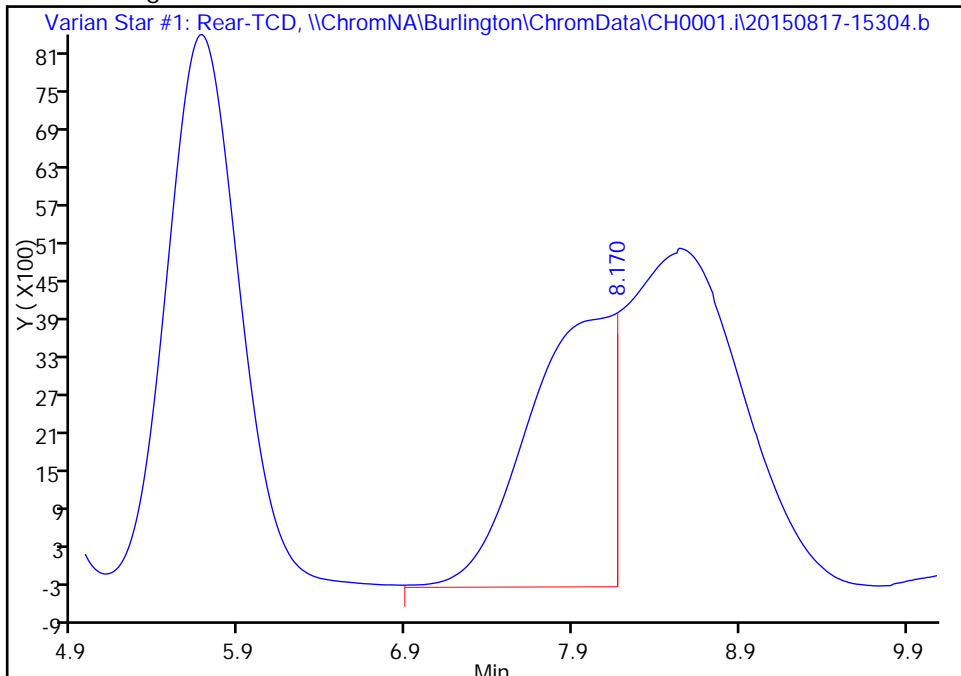
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 8.17  
Area: 155371  
Amount: 3.792987  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:49:31  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

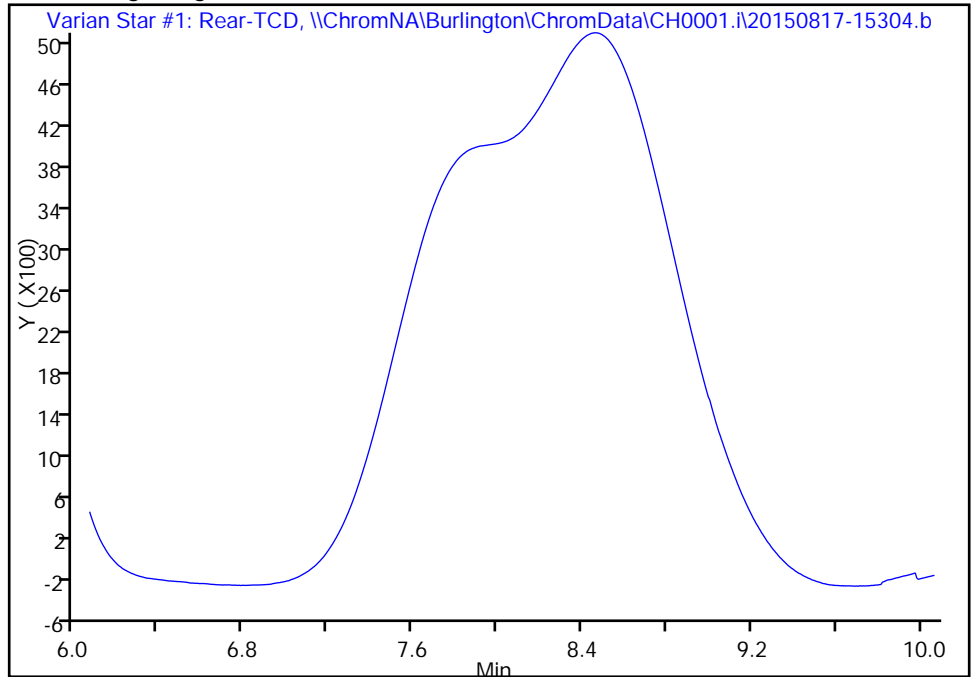
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d  
Injection Date: 17-Aug-2015 18:40:54 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 34  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

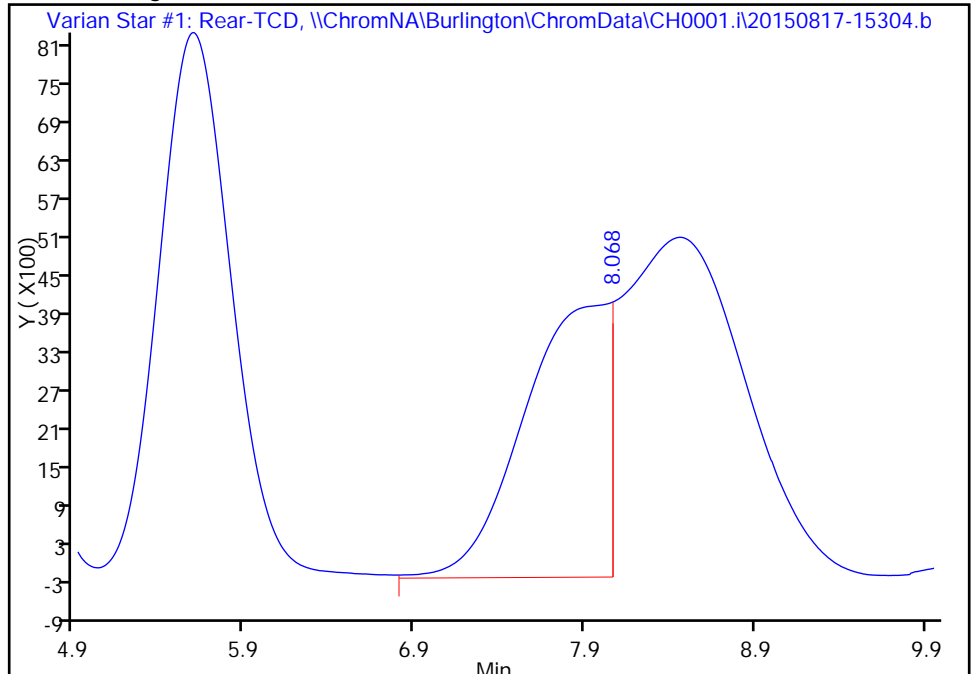
Not Detected  
Expected RT: 8.07

Processing Integration Results



RT: 8.07  
Area: 151642  
Amount: 3.701953  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:51:19  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing



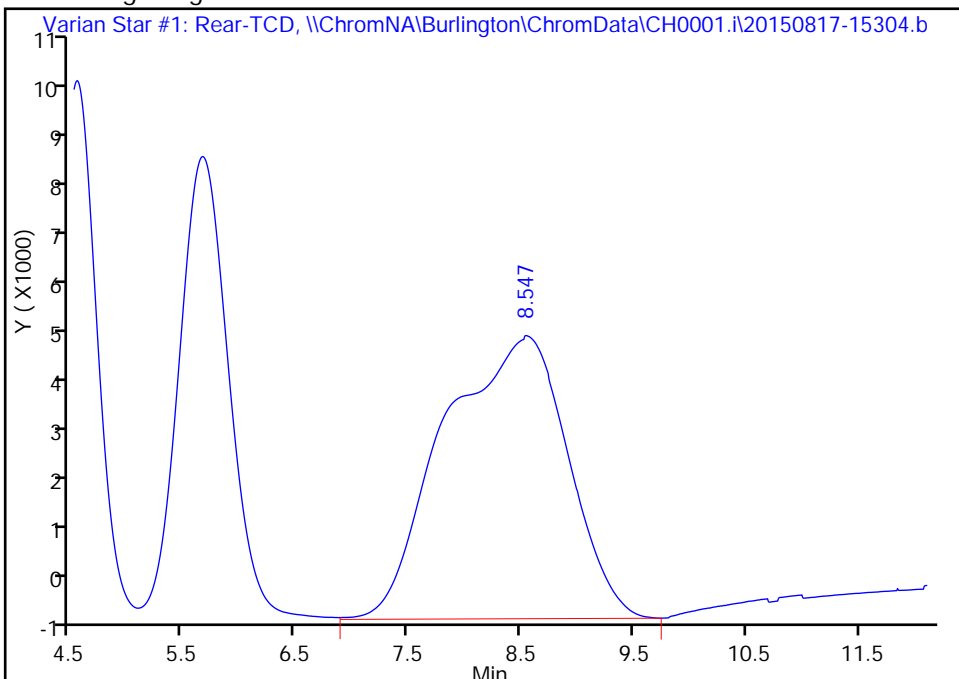
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv002.d  
Injection Date: 17-Aug-2015 18:25:03 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 33  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

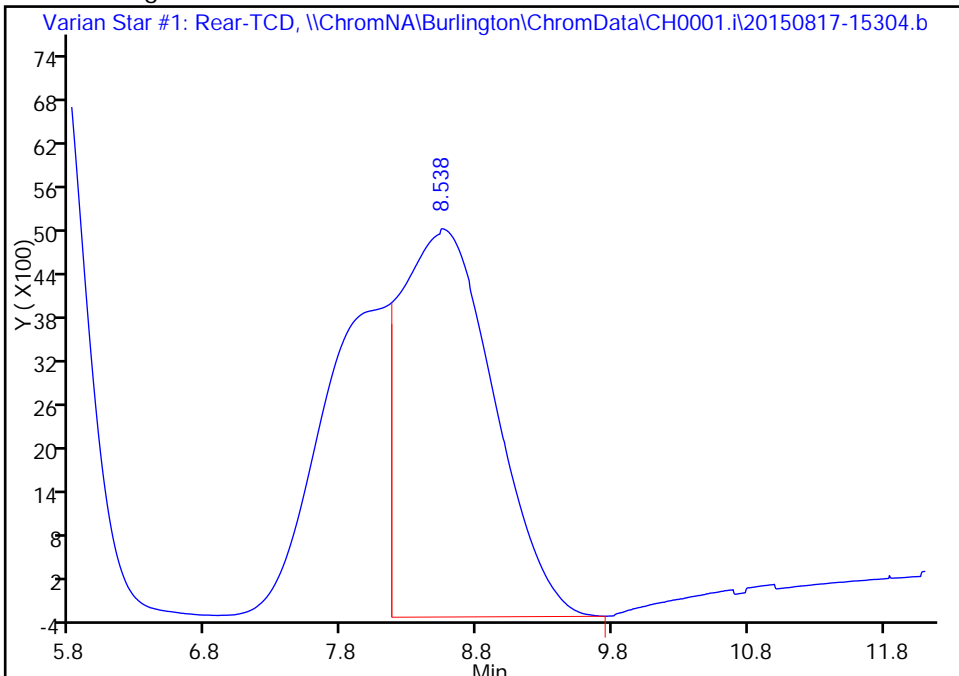
RT: 8.55  
Area: 408613  
Amount: 8.373369  
Amount Units: % v/v

Processing Integration Results



RT: 8.54  
Area: 253267  
Amount: 5.142097  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:49:31  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

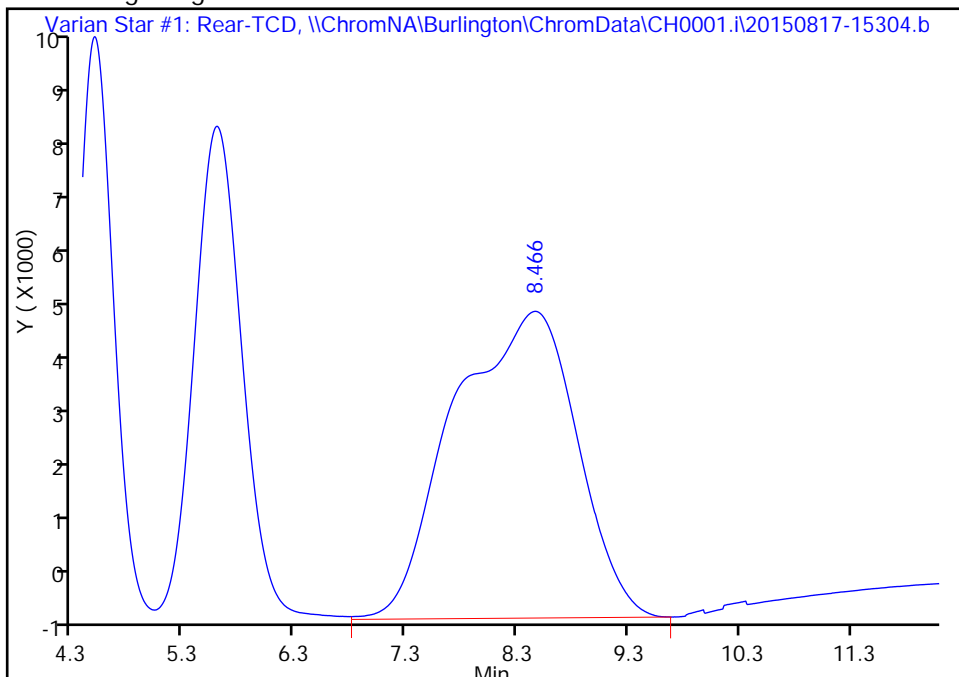
TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\icv003.d  
Injection Date: 17-Aug-2015 18:40:54 Instrument ID: CH0001.i  
Lims ID: icv  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 34  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

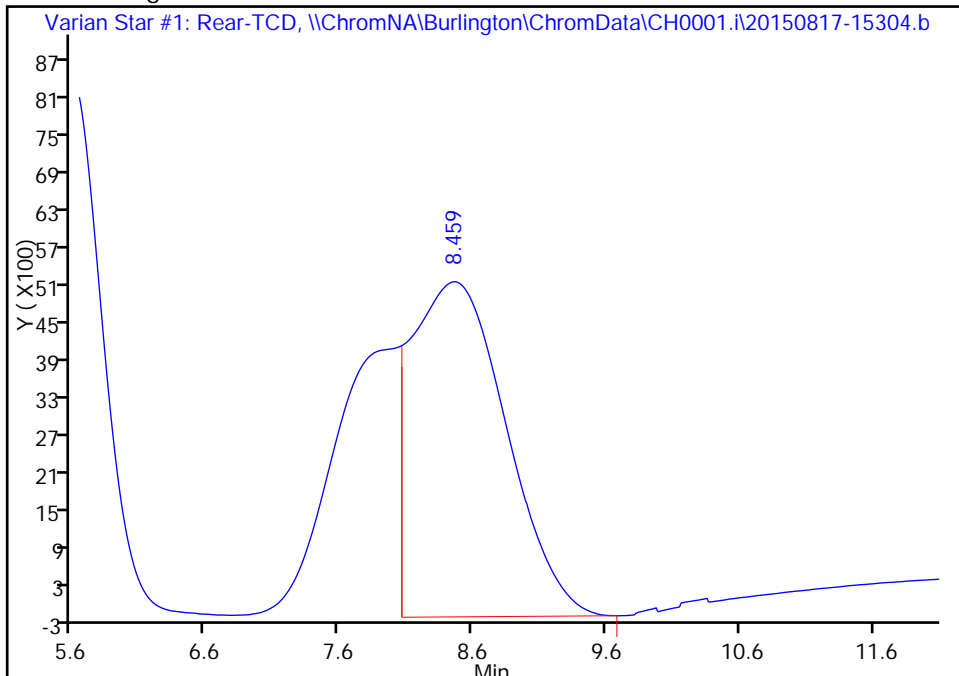
RT: 8.47  
Area: 413704  
Amount: 8.477694  
Amount Units: % v/v

Processing Integration Results



RT: 8.46  
Area: 262098  
Amount: 5.321394  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 18-Aug-2015 09:51:19  
Audit Action: Manually Integrated/Assigned Compound ID  
Audit Reason: Baseline Smoothing

FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab Sample ID: CCV 200-135231/1 Calibration Date: 10/08/2018 12:15  
 Instrument ID: CH0001.i Calib Start Date: 08/17/2015 09:23  
 GC Column: CTR-1 ID: 3.18 (mm) Calib End Date: 08/17/2015 17:37  
 Lab File ID: 3cccv20181008a.d+avg Conc. Units: % v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	44385	47906		5.36	5.00	7.9	20.0
Oxygen	Ave	50234	48226		2.39	2.50	-4.0	20.0
Nitrogen	Ave	55830	55425		4.98	5.00	-0.7	20.0
Methane	Ave	40963	39749		3.87	4.00	-3.0	20.0
Carbon monoxide	Ave	49254	54196		5.45	5.00	10.0	20.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3cccv20181008a.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 08-Oct-2018 12:15:55 ALS Bottle#: 0 Worklist Smp#: 1  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3cccv20181008a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:34 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:18:39

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.902	1.894	0.008	239528	5.00	5.40	
2 Oxygen	4.535	4.487	0.048	120565	2.50	2.40	
3 Nitrogen	5.592	5.582	0.010	277123	5.00	4.96	
4 Methane	8.008	8.069	-0.061	158995	4.00	3.88	Ma
5 Carbon monoxide	8.252	8.431	-0.179	270981	5.00	5.49	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3cccv20181008c.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 08-Oct-2018 13:03:43 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3cccv20181008c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:20:44

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.888	1.894	-0.006	235922	5.00	5.32	
2 Oxygen	4.458	4.487	-0.029	119705	2.50	2.38	
3 Nitrogen	5.492	5.582	-0.090	279413	5.00	5.00	
4 Methane	7.858	8.069	-0.211	157974	4.00	3.86	M
5 Carbon monoxide	8.102	8.431	-0.329	267241	5.00	5.42	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

Processing 3C data for files:

z:\ch0001-3hutch\3cccv20181008a-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\3cccv20181008c-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	239528	235922	237725	0.76
Oxygen	120565	119705	120135	0.36
Nitrogen	277123	279413	278268	0.41
Methane	158995	157974	158484.5	0.32
Carbon monoxide	270981	267241	269111	0.69

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	5.4	5.32	5.36	0.76
Oxygen	2.4	2.38	2.39	0.36
Nitrogen	4.96	5	4.98	0.41
Methane	3.88	3.86	3.87	0.32
Carbon monoxide	5.49	5.42	5.45	0.69

Report Date: 15-Oct-2018 10:21:35

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3cccv20181008a.d

Injection Date: 08-Oct-2018 12:15:55

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 1

Client ID:

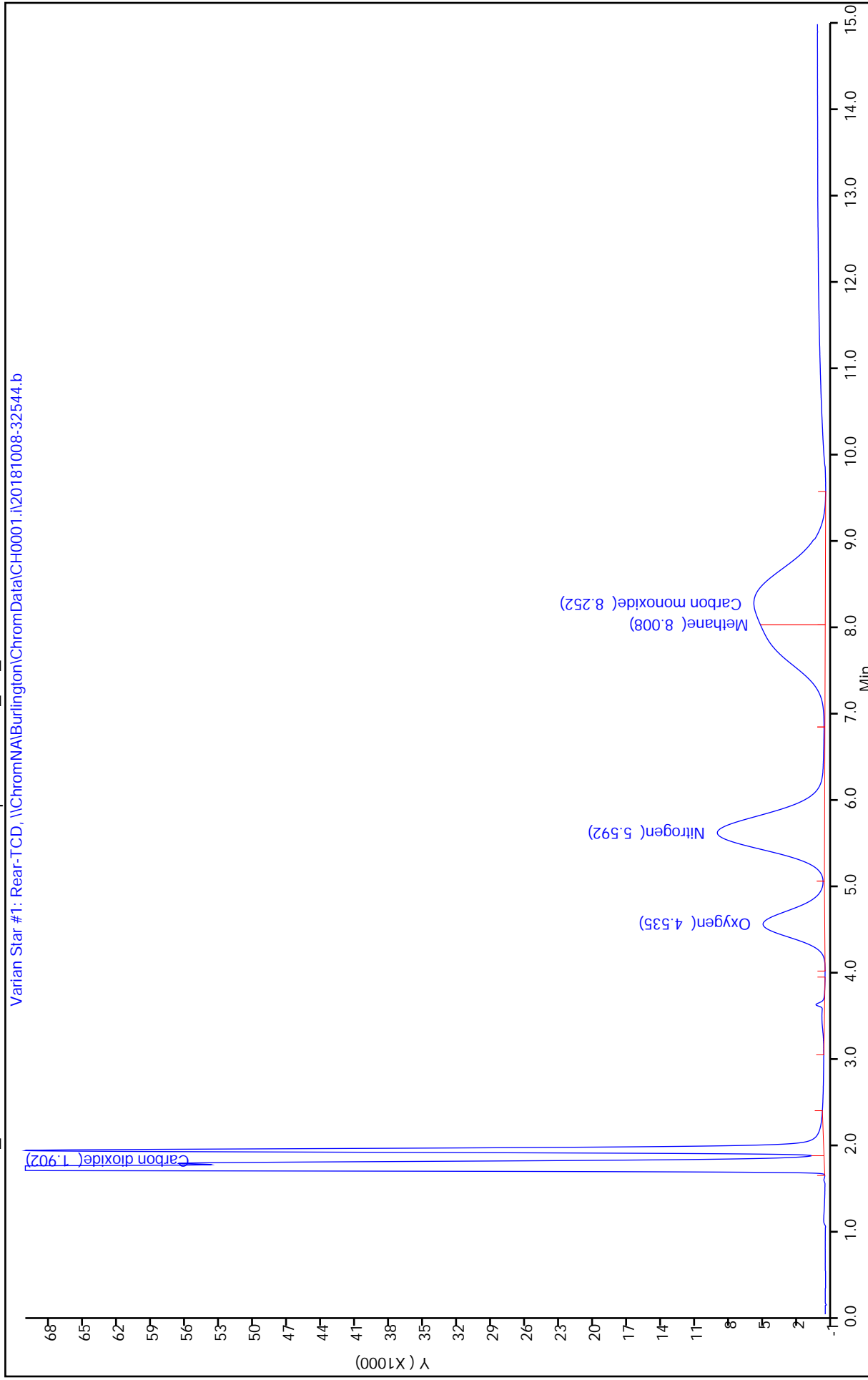
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3cccv20181008c.d

Injection Date: 08-Oct-2018 13:03:43

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 2

Client ID:

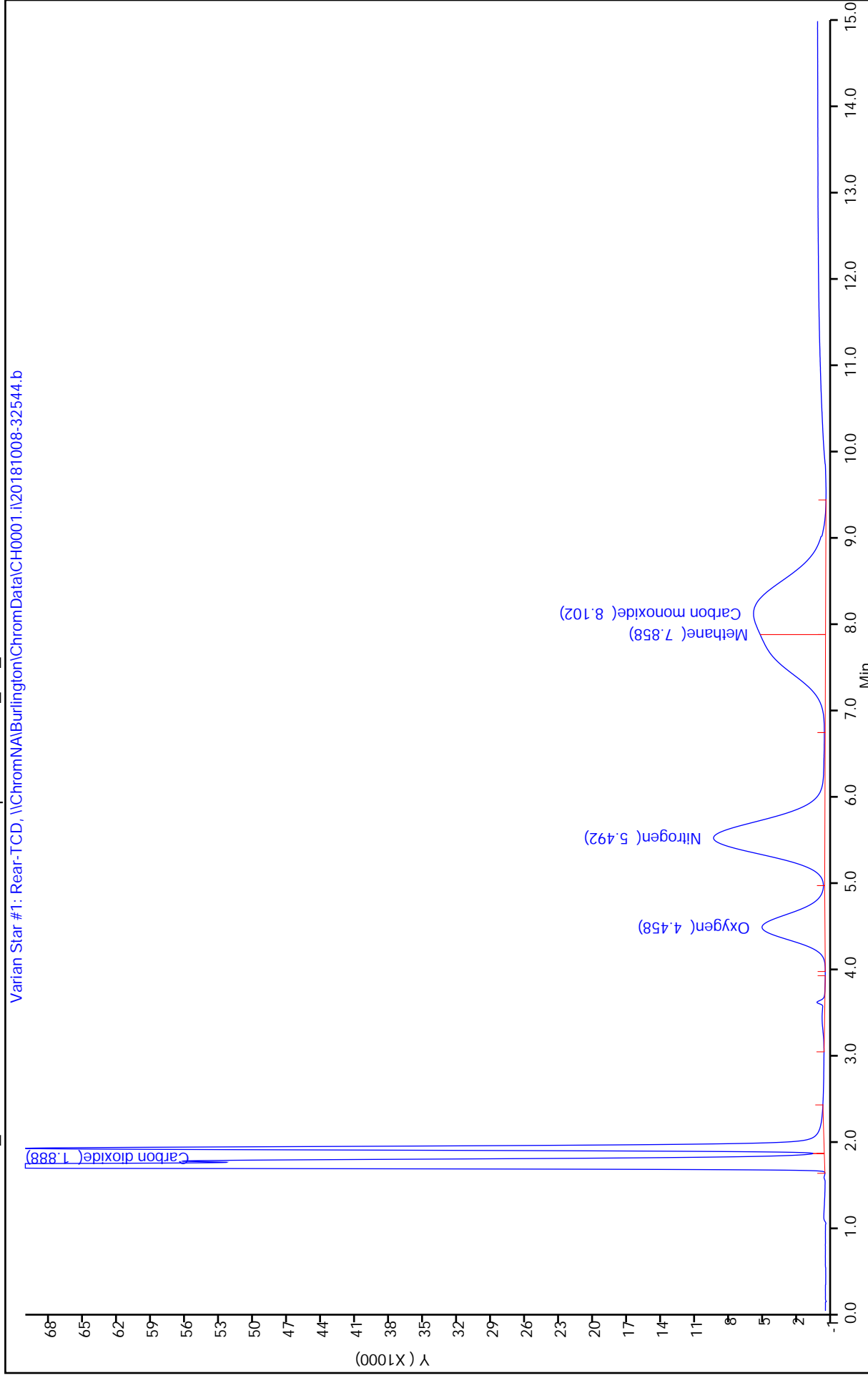
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits





TestAmerica Burlington

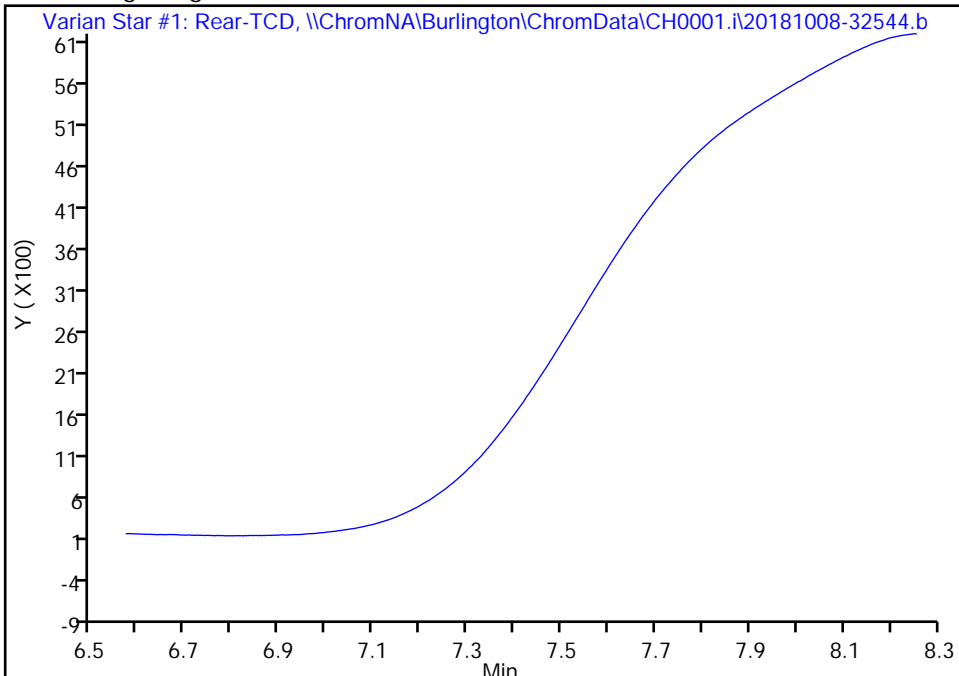
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Injection Date: 08-Oct-2018 12:15:55 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 1  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

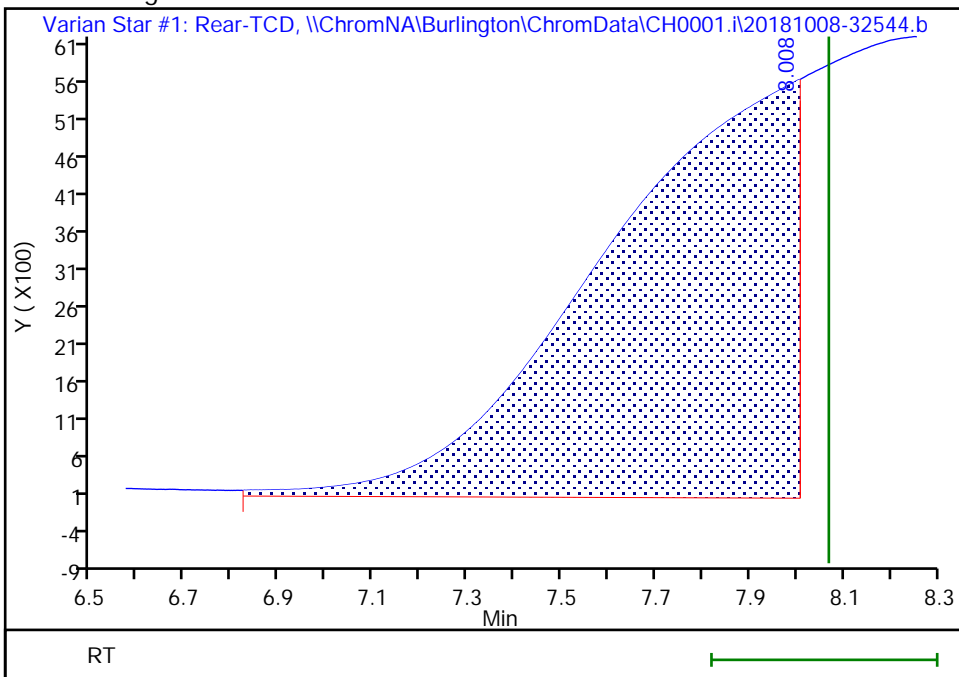
Processing Integration Results

Not Detected  
Expected RT: 8.07



Manual Integration Results

RT: 8.01  
Area: 158995  
Amount: 3.881458  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 16:18:32

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

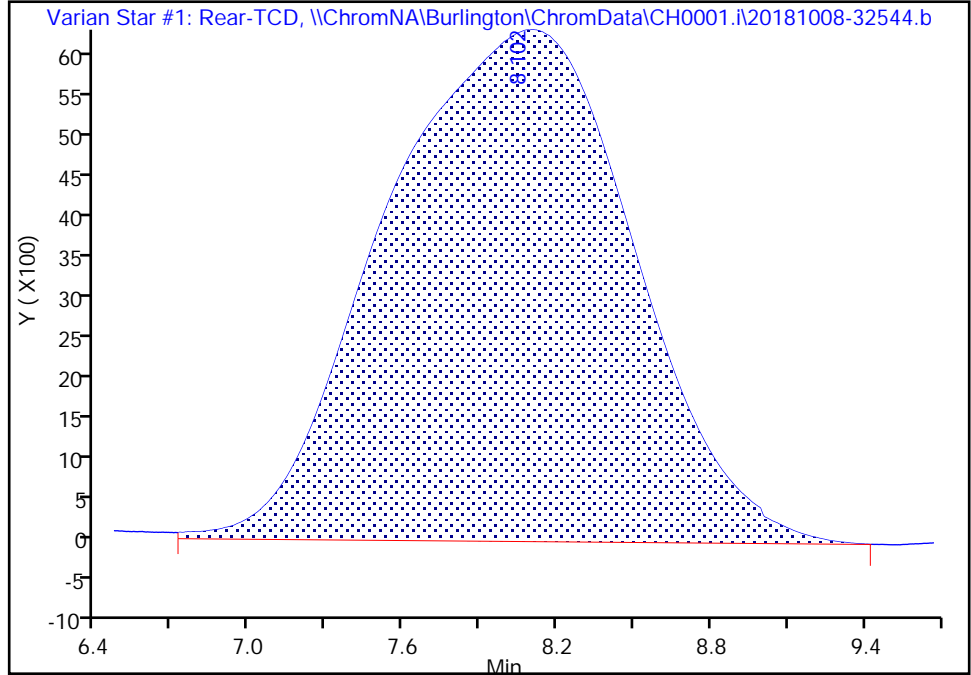
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3cccv20181008c.d  
Injection Date: 08-Oct-2018 13:03:43 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 2  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

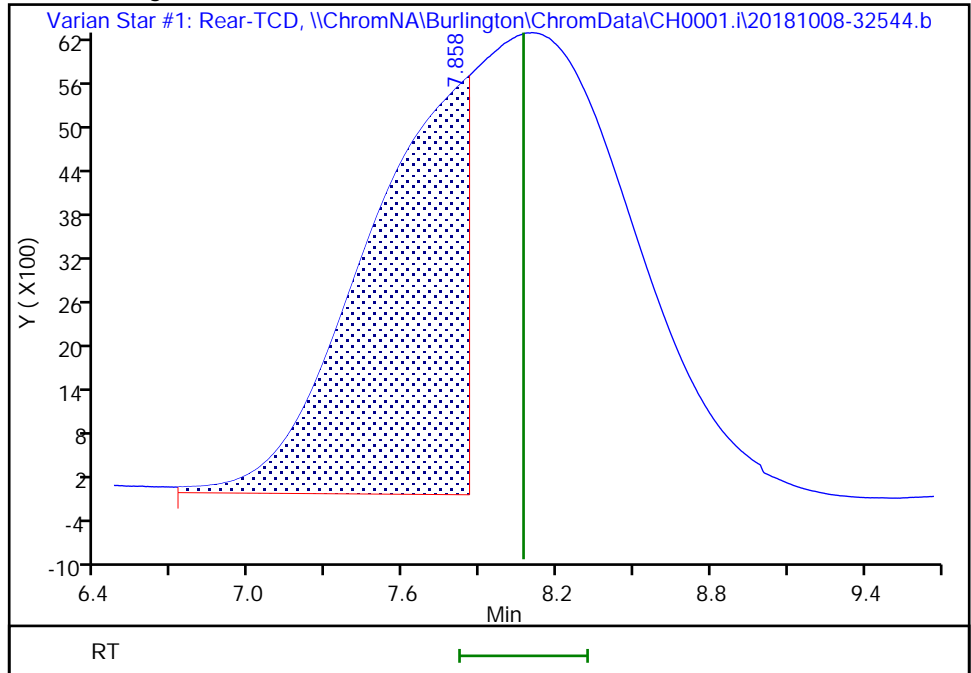
RT: 8.10  
Area: 425289  
Amount: 10.382348  
Amount Units: % v/v

Processing Integration Results



RT: 7.86  
Area: 157974  
Amount: 3.856533  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:20:35  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
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TestAmerica Burlington

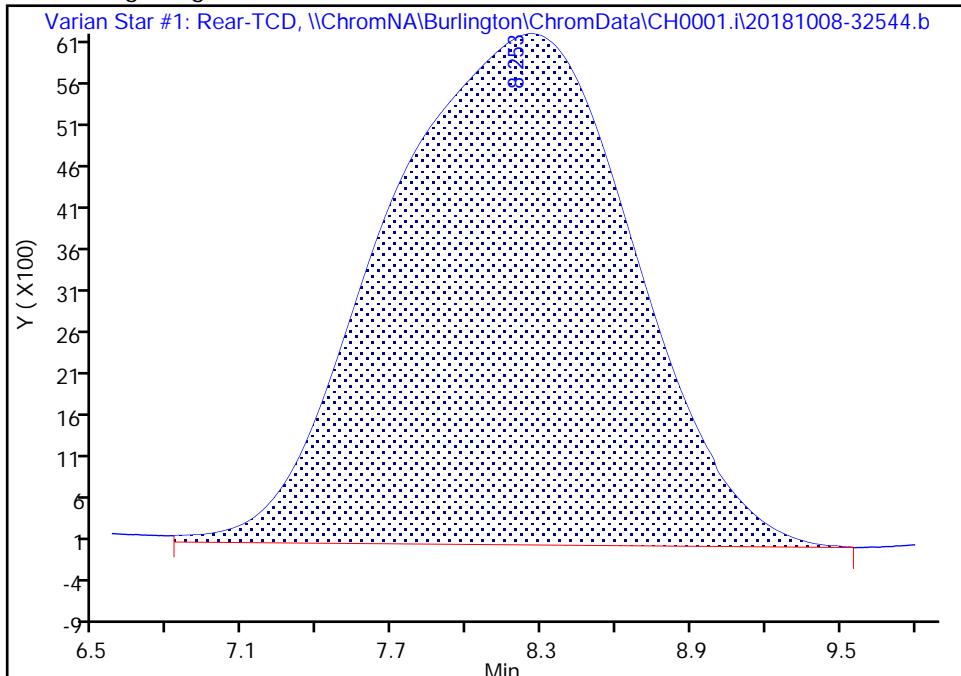
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Injection Date: 08-Oct-2018 12:15:55 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 1  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

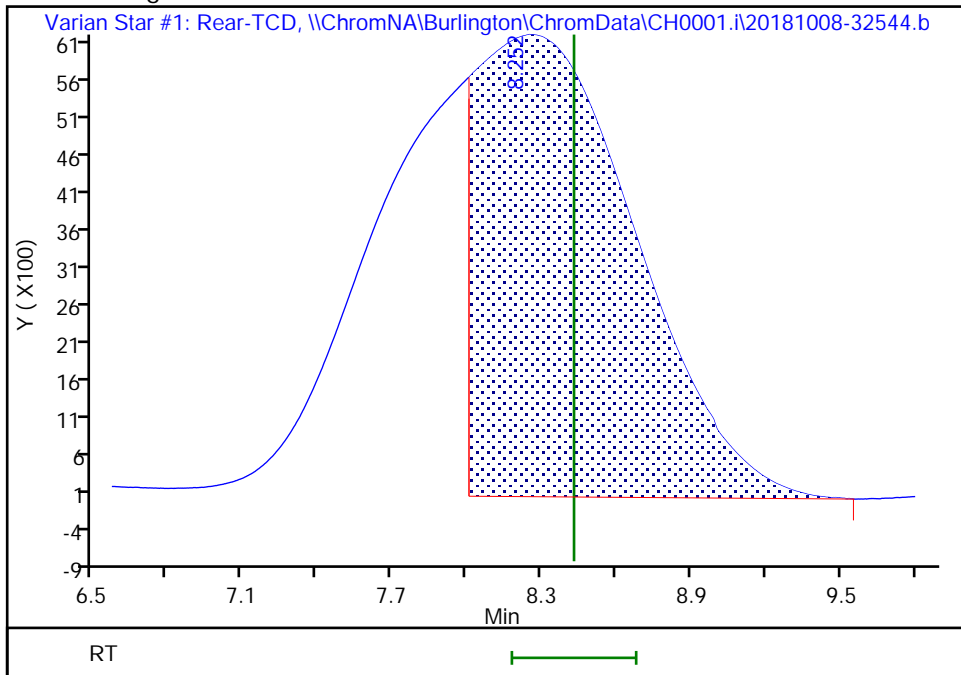
RT: 8.25  
Area: 429984  
Amount: 8.715575  
Amount Units: % v/v

Processing Integration Results



RT: 8.25  
Area: 270981  
Amount: 5.492658  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:18:37

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

TestAmerica Burlington

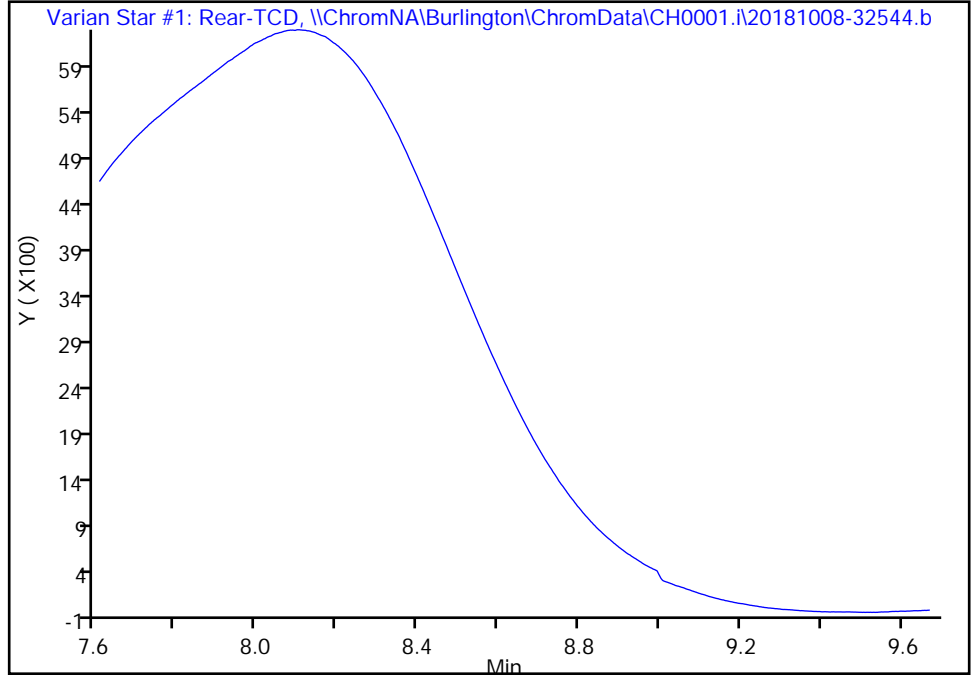
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3cccv20181008c.d  
Injection Date: 08-Oct-2018 13:03:43 Instrument ID: CH0001.i  
Lims ID: ccv  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 2  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

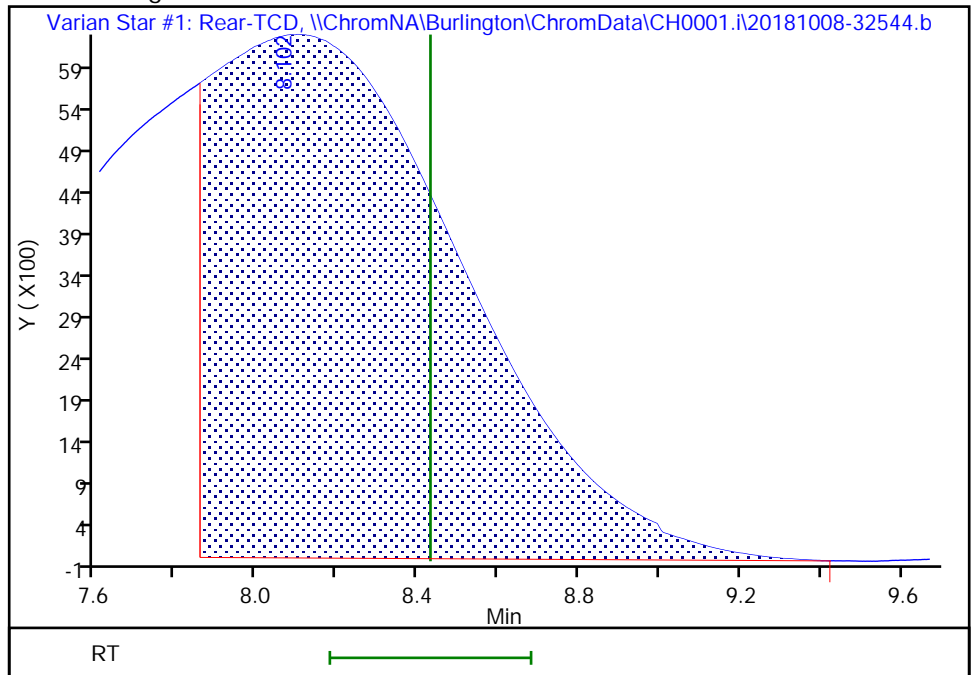
Not Detected  
Expected RT: 8.43

Processing Integration Results



Manual Integration Results

RT: 8.10  
Area: 267241  
Amount: 5.416850  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 16:20:42

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab Sample ID: CCVC 200-135231/18 Calibration Date: 10/09/2018 13:19  
 Instrument ID: CH0001.i Calib Start Date: 08/17/2015 09:23  
 GC Column: CTR-1 ID: 3.18 (mm) Calib End Date: 08/17/2015 17:37  
 Lab File ID: 3cccvc20181009a.d-avg Conc. Units: % v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon dioxide	Ave	44385	47426		5.34	5.00	6.8	20.0
Oxygen	Ave	50234	46466		2.31	2.50	-7.5	20.0
Nitrogen	Ave	55830	53400		4.78	5.00	-4.4	20.0
Methane	Ave	40963	41024		4.01	4.00	0.1	20.0
Carbon monoxide	Ave	49254	51927		5.26	5.00	5.4	20.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009a.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 09-Oct-2018 13:19:35 ALS Bottle#: 0 Worklist Smp#: 31  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3ccvc20181009a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 11:54:59 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:29:16

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.893	1.894	-0.001	236564	5.00	5.33	
2 Oxygen	4.482	4.487	-0.005	116780	2.50	2.32	
3 Nitrogen	5.527	5.582	-0.055	264087	5.00	4.73	
4 Methane	7.925	8.069	-0.144	166381	4.00	4.06	M
5 Carbon monoxide	8.133	8.431	-0.298	257068	5.00	5.21	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009b.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 09-Oct-2018 13:40:03 ALS Bottle#: 0 Worklist Smp#: 32  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3ccvc20181009b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA3C\_CH0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 11:55:01 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:53:25

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.897	1.894	0.003	237694	5.00	5.36	
2 Oxygen	4.492	4.487	0.005	115549	2.50	2.30	
3 Nitrogen	5.542	5.582	-0.040	269915	5.00	4.83	
4 Methane	7.950	8.069	-0.119	161810	4.00	3.95	M
5 Carbon monoxide	8.180	8.431	-0.251	262205	5.00	5.31	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CCCVs\_00066 Amount Added: 2.00 Units: mL

Processing 3C data for files:

z:\ch0001-3hutch\3cccv20181009a-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\3cccv20181009b-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

---

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	236564	237694	237129	0.24
Oxygen	116780	115549	116164.5	0.53
Nitrogen	264087	269915	267001	1.09
Methane	166381	161810	164095.5	1.39
Carbon monoxide	257068	262205	259636.5	0.99

---

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	5.33	5.36	5.34	0.24
Oxygen	2.32	2.3	2.31	0.53
Nitrogen	4.73	4.83	4.78	1.09
Methane	4.06	3.95	4.01	1.39
Carbon monoxide	5.21	5.31	5.26	0.99

---



TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009a.d

Injection Date: 09-Oct-2018 13:19:35

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 31

Client ID:

Purge Vol: 2.000 mL

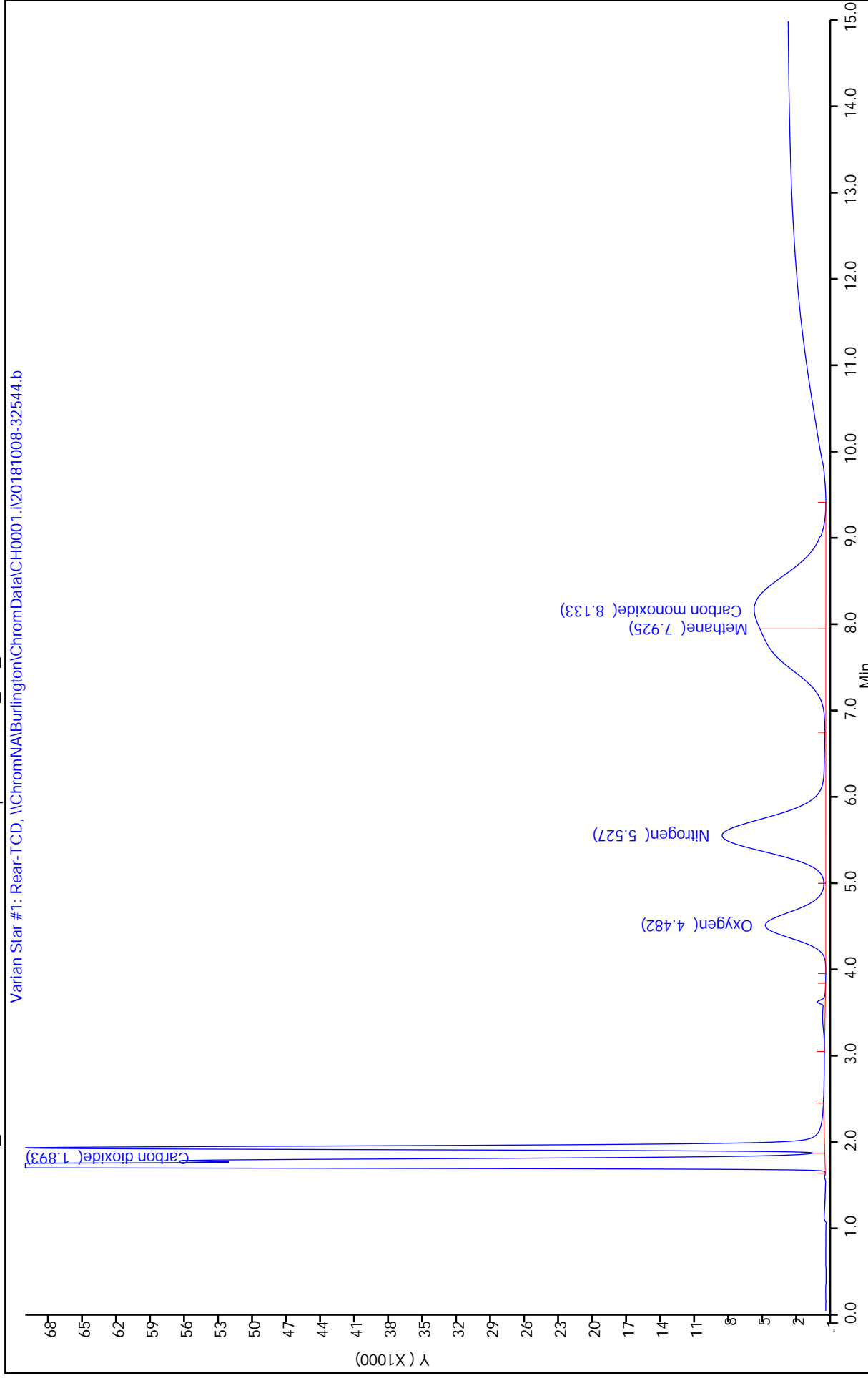
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b



Report Date: 15-Oct-2018 11:55:01

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc\20181009b.d

Injection Date: 09-Oct-2018 13:40:03

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 32

Client ID:

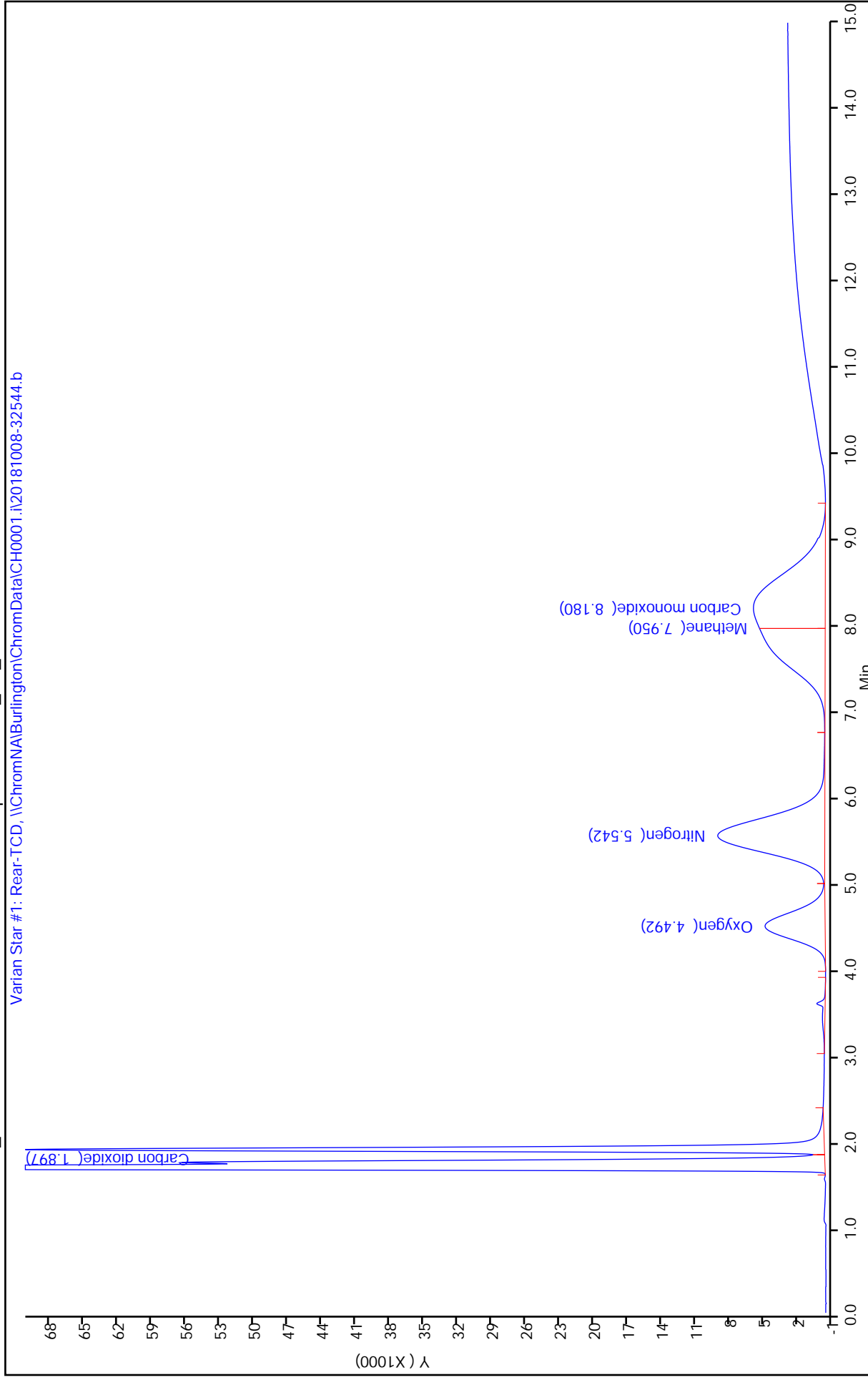
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



TestAmerica Burlington

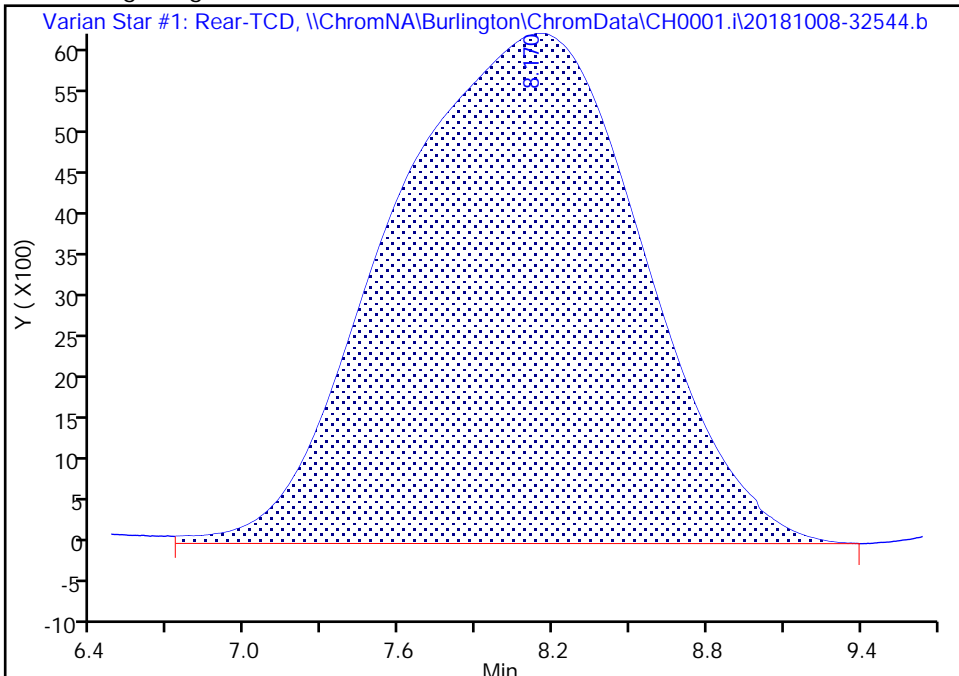
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009a.d  
Injection Date: 09-Oct-2018 13:19:35 Instrument ID: CH0001.i  
Lims ID: ccvc  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 31  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

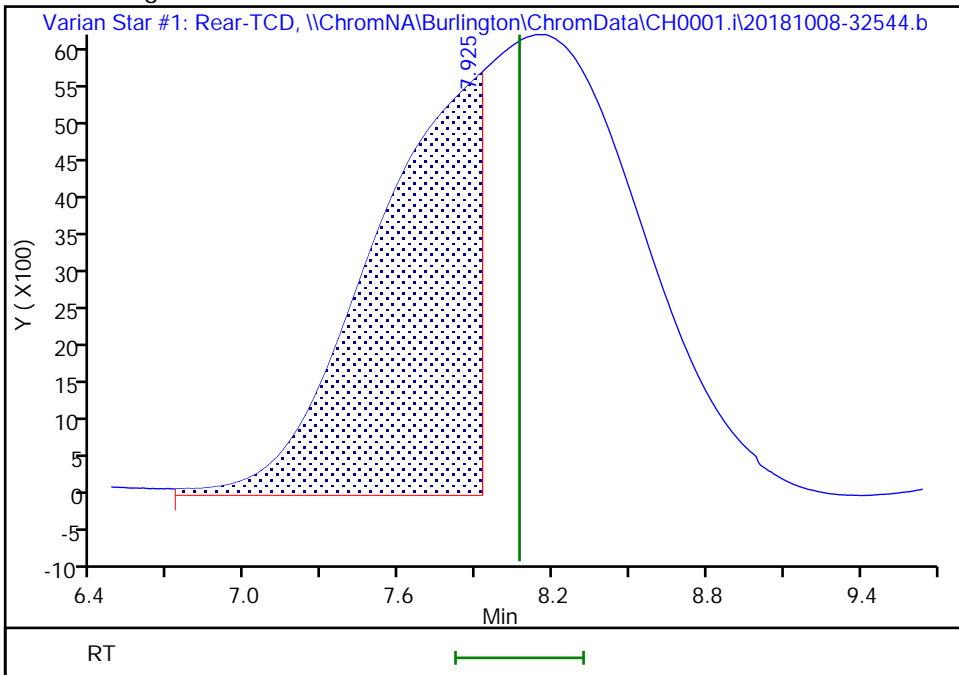
RT: 8.17  
Area: 423477  
Amount: 10.338112  
Amount Units: % v/v

Processing Integration Results



RT: 7.93  
Area: 166381  
Amount: 4.061768  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:29:07  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
Page 228 of 680

TestAmerica Burlington

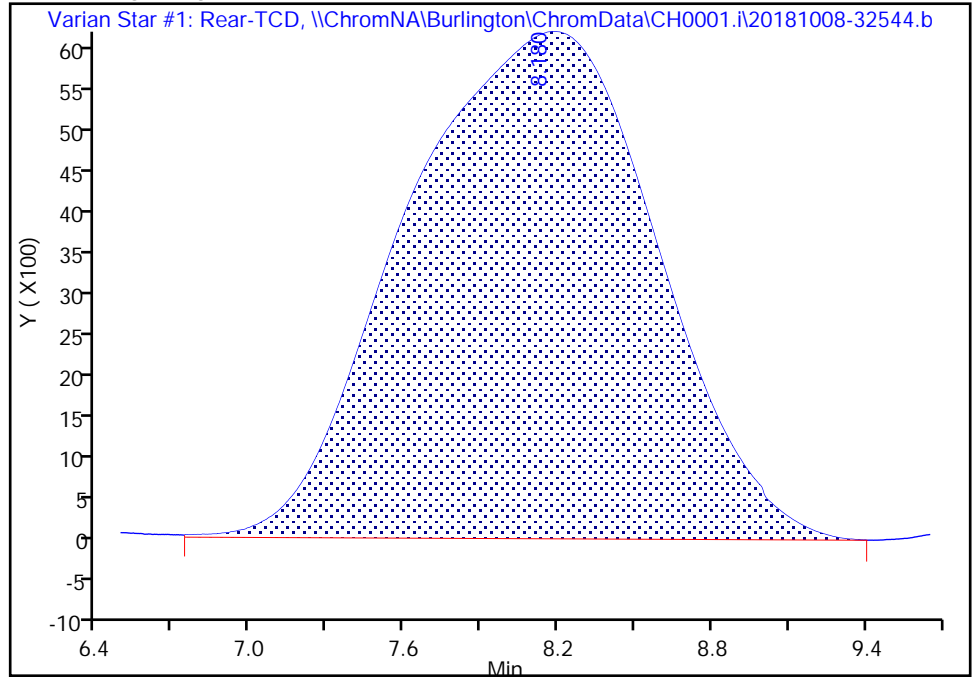
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009b.d  
Injection Date: 09-Oct-2018 13:40:03 Instrument ID: CH0001.i  
Lims ID: ccvc  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 32  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

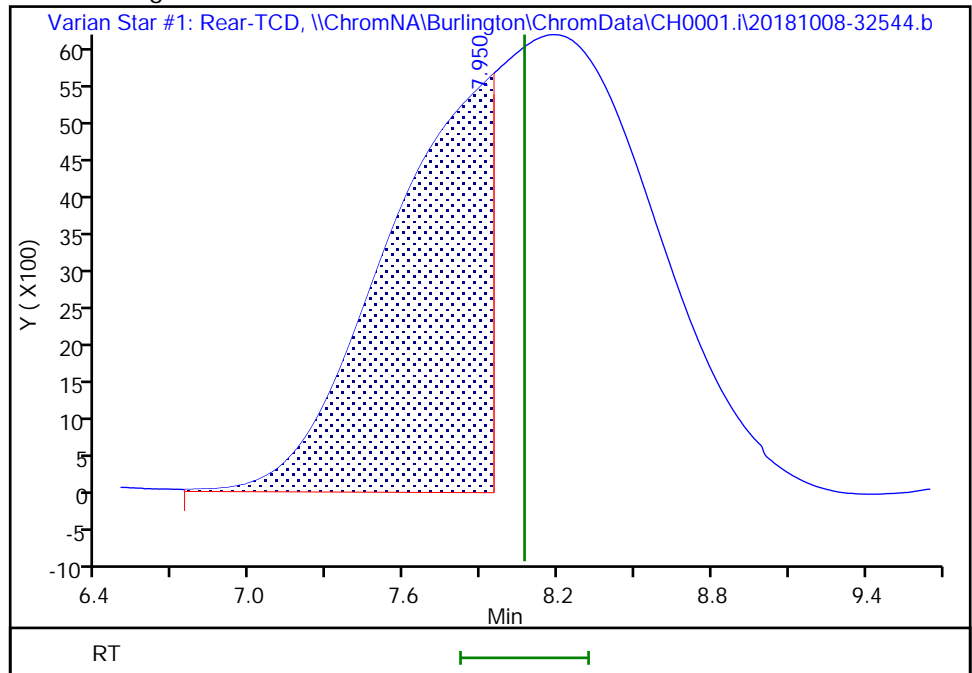
RT: 8.18  
Area: 424035  
Amount: 10.351734  
Amount Units: % v/v

Processing Integration Results



RT: 7.95  
Area: 161810  
Amount: 3.950179  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:31:23  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
Page 229 of 680

TestAmerica Burlington

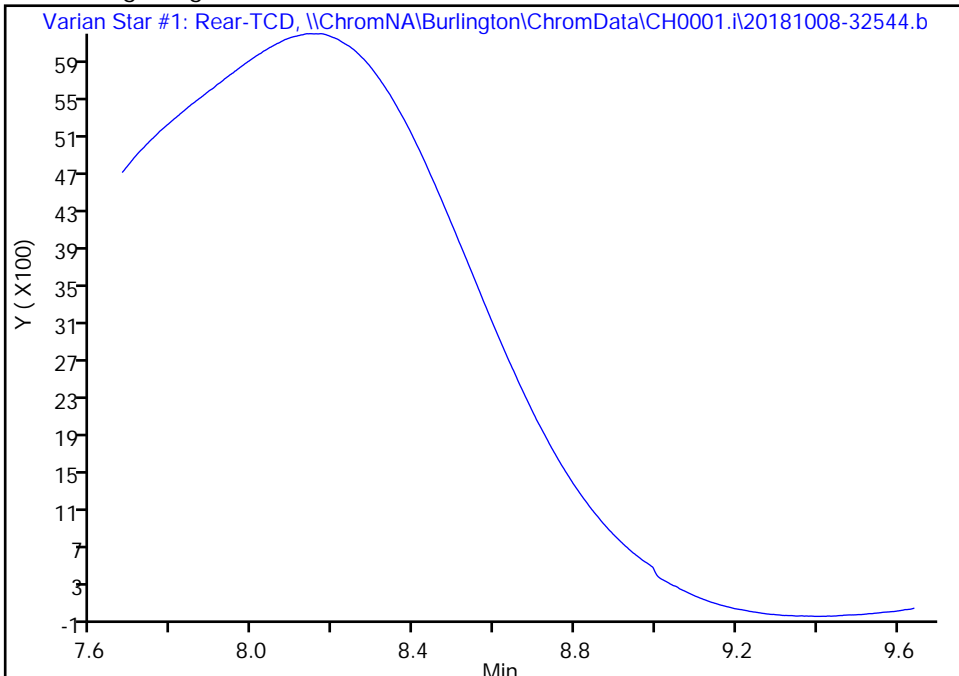
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009a.d  
Injection Date: 09-Oct-2018 13:19:35 Instrument ID: CH0001.i  
Lims ID: ccvc  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 31  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

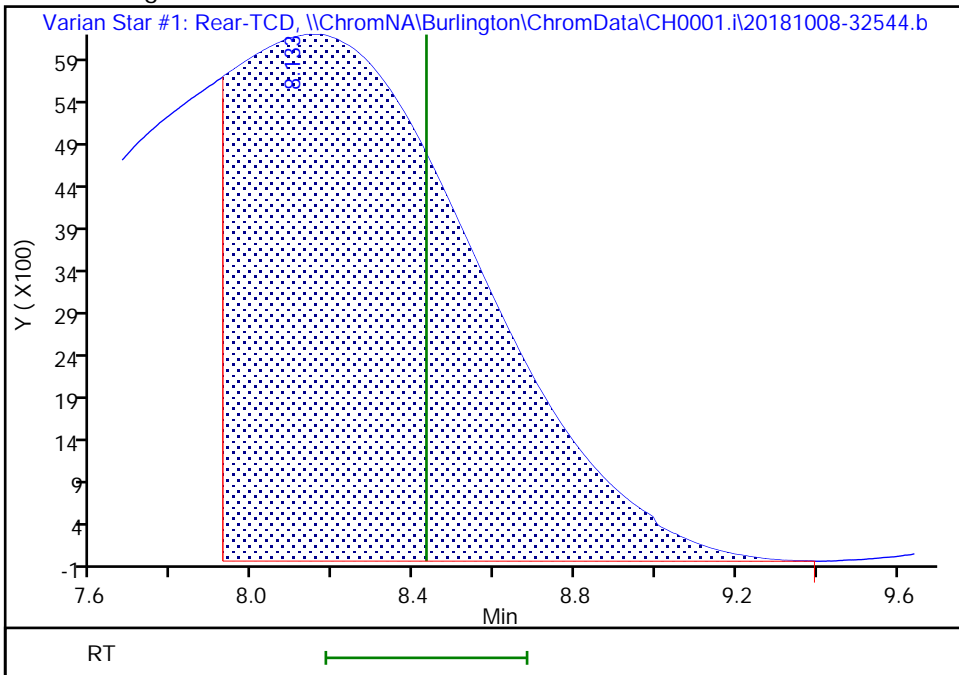
Not Detected  
Expected RT: 8.43

Processing Integration Results



Manual Integration Results

RT: 8.13  
Area: 257068  
Amount: 5.210648  
Amount Units: % v/v



TestAmerica Burlington

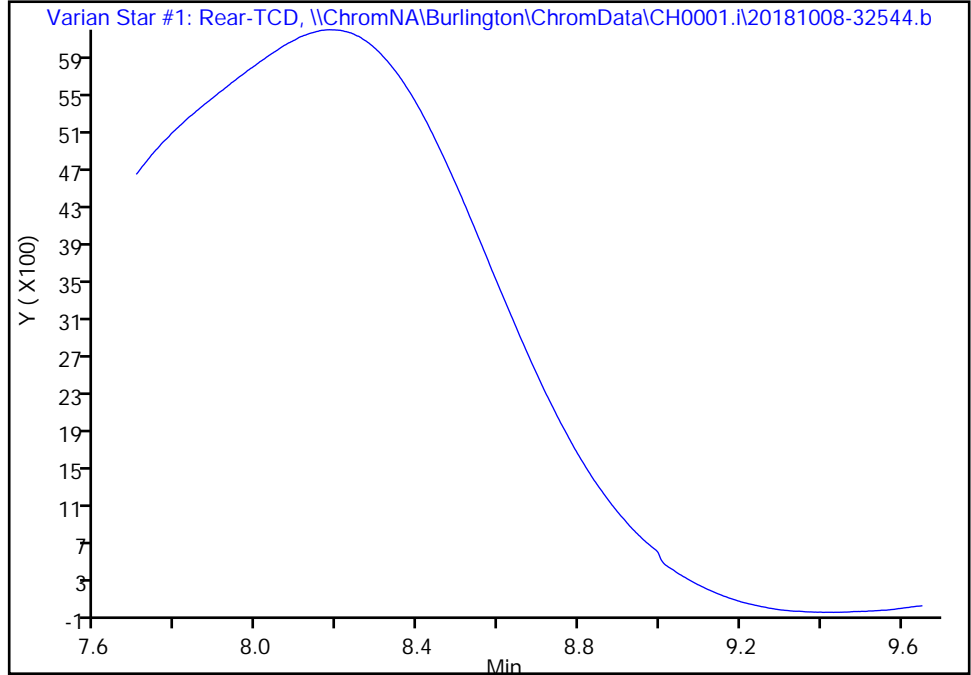
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3ccvc20181009b.d  
Injection Date: 09-Oct-2018 13:40:03 Instrument ID: CH0001.i  
Lims ID: ccvc  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 32  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

5 Carbon monoxide, CAS: 630-08-0

Signal: 1

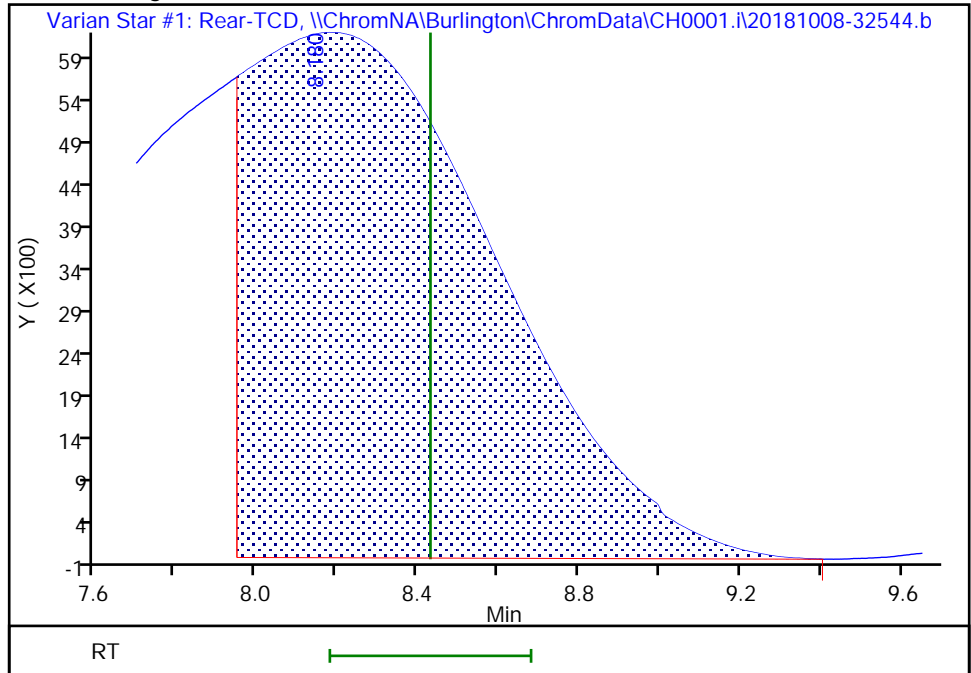
Not Detected  
Expected RT: 8.43

Processing Integration Results



Manual Integration Results

RT: 8.18  
Area: 262205  
Amount: 5.314773  
Amount Units: % v/v



Reviewer: desjardinsb, 13-Oct-2018 16:31:29

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Split Peak

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-135231/3  
 Matrix: Air Lab File ID: mb20181008a.d-avg  
 Analysis Method: EPA 3C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/08/2018 18:00  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: CTR-1 ID: 3.175 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135231 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	0.050	U	0.050	0.050
74-82-8	Methane	0.040	U	0.040	0.040
7727-37-9	Nitrogen	0.50	U	0.50	0.50
7782-44-7	Oxygen	0.050	U	0.050	0.050

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\mb20181008a.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 08-Oct-2018 18:00:58 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181008a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:22:53

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
2 Oxygen	4.592	4.487	0.105	537		0.0107	
3 Nitrogen	5.650	5.582	0.068	2792		0.0500	



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\mb20181008b.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 08-Oct-2018 18:17:00 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181008b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:23:06

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
2 Oxygen	4.548	4.487	0.061	491		0.009774	7
3 Nitrogen	5.558	5.582	-0.024	2985		0.0535	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Processing 3C data for files:

z:\ch0001-3hutch\mb20181008a-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\mb20181008b-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

---

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	0	0	0	0
Oxygen	537	491	514	4.47
Nitrogen	2792	2985	2888.5	3.34
Methane	0	0	0	0
Carbon monoxide	0	0	0	0

---

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	0	0	0	0
Oxygen	0.01	0.01	0.01	4.47
Nitrogen	0.05	0.05	0.05	3.34
Methane	0	0	0	0
Carbon monoxide	0	0	0	0

---

Report Date: 15-Oct-2018 10:21:42

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\mb20181008a.d

Injection Date: 08-Oct-2018 18:00:58

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 5

Client ID:

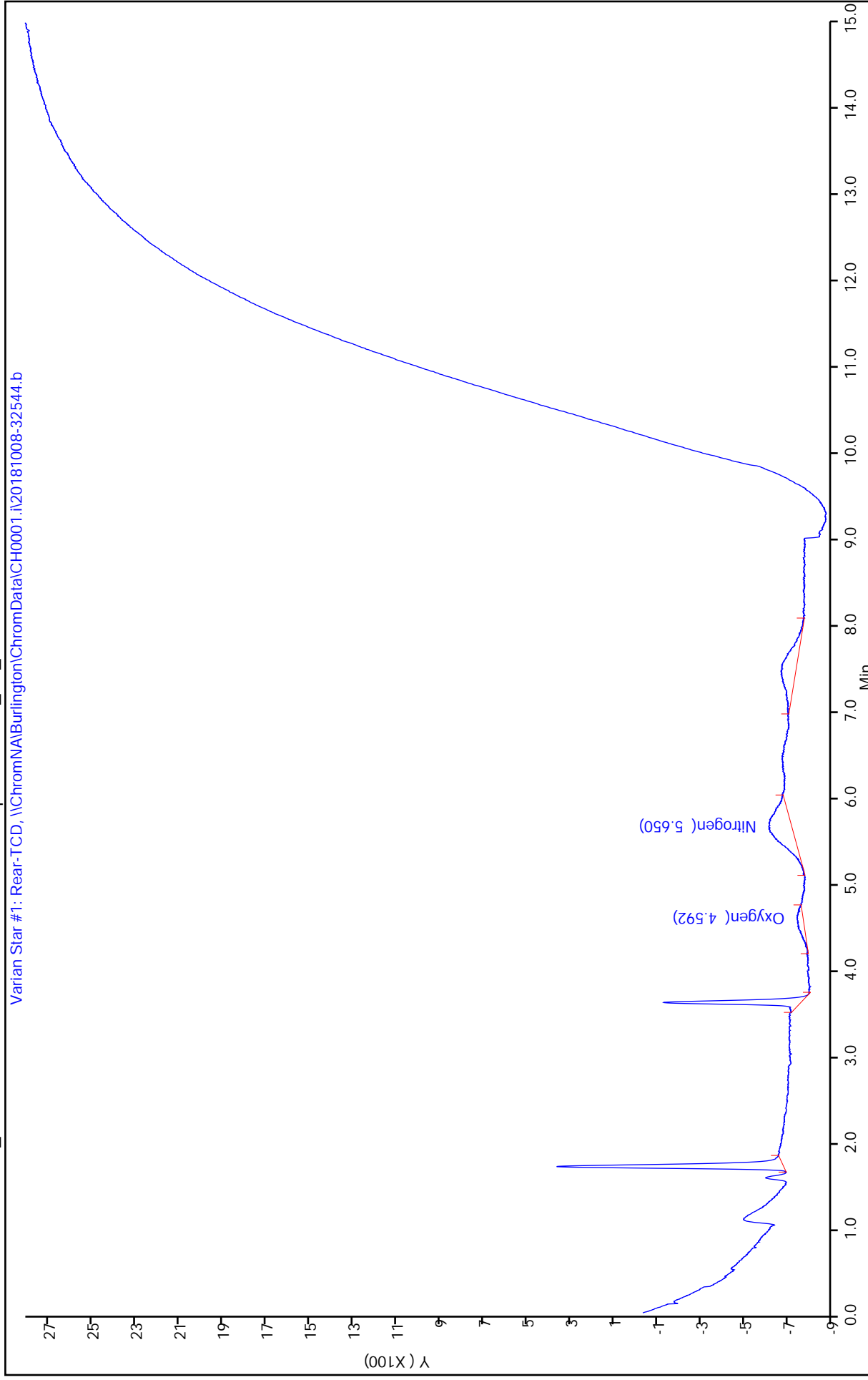
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Report Date: 15-Oct-2018 10:21:43

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\mb20181008b.d

Injection Date: 08-Oct-2018 18:17:00

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 6

Client ID:

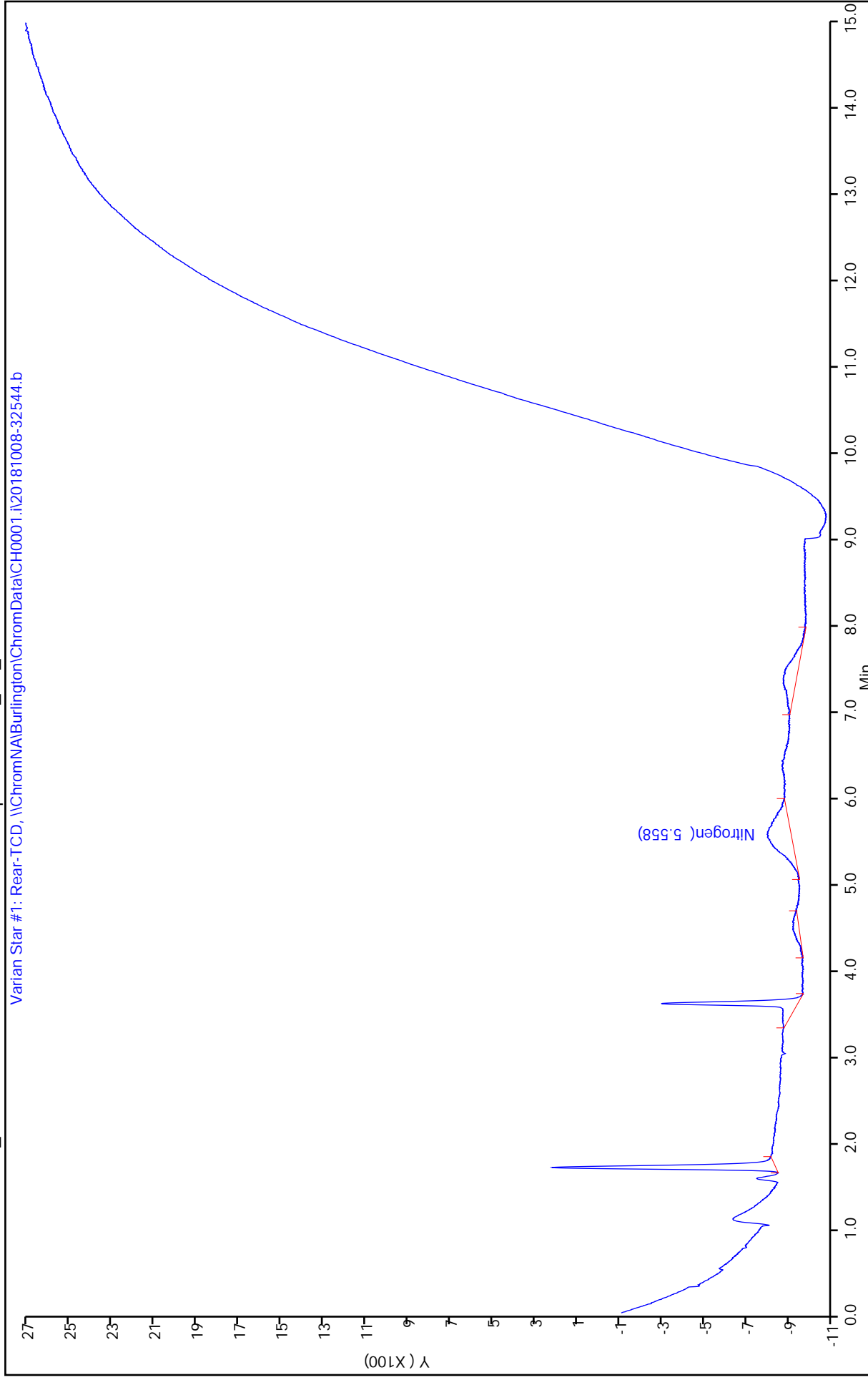
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-135231/2  
 Matrix: Air Lab File ID: 3clcs20181008a.d-avg  
 Analysis Method: EPA 3C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/08/2018 13:20  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: CTR-1 ID: 3.175 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135231 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon dioxide	5.28		0.050	0.050
74-82-8	Methane	3.95		0.040	0.040
7727-37-9	Nitrogen	4.73		0.50	0.50
7782-44-7	Oxygen	2.30		0.050	0.050

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3clcs20181008a.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 08-Oct-2018 13:20:39 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3clcs20181008a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:21:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.885	1.894	-0.009	234623	5.00	5.29	
2 Oxygen	4.445	4.487	-0.042	116533	2.50	2.32	
3 Nitrogen	5.477	5.582	-0.105	266345	5.00	4.77	
4 Methane	7.832	8.069	-0.237	161484	4.00	3.94	M
5 Carbon monoxide	8.067	8.431	-0.364	266327	5.00	5.40	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CLCSs\_00008 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3clcs20181008b.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 08-Oct-2018 13:44:41 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 3clcs20181008b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\EPA3C\_CH0001.i.m  
 Limit Group: AI\_3C\_Limits  
 Last Update: 15-Oct-2018 10:21:37 Calib Date: 17-Aug-2015 17:37:25  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150817-15304.b\n2 100%002.d  
 Column 1 : Det: Varian Star #1: Rear-TCD  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 13-Oct-2018 16:22:44

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt % v/v	OnCol Amt % v/v	Flags
1 Carbon dioxide	1.887	1.894	-0.007	234385	5.00	5.28	
2 Oxygen	4.457	4.487	-0.030	114492	2.50	2.28	
3 Nitrogen	5.493	5.582	-0.089	261766	5.00	4.69	
4 Methane	7.873	8.069	-0.196	162323	4.00	3.96	M
5 Carbon monoxide	8.107	8.431	-0.324	264384	5.00	5.36	Ma

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

AT3CLCSs\_00008 Amount Added: 2.00 Units: mL

Processing 3C data for files:

z:\ch0001-3hutch\3clcs20181008a-134974-ai\_3c\_limits-1.txt

z:\ch0001-3hutch\3clcs20181008b-134974-ai\_3c\_limits-1.txt

Raw Results - Fixed Gases

Analyte	Resp1	Resp2	Avg Resp	%D
Carbon dioxide	234623	234385	234504	0.05
Oxygen	116533	114492	115512.5	0.88
Nitrogen	266345	261766	264055.5	0.87
Methane	161484	162323	161903.5	0.26
Carbon monoxide	266327	264384	265355.5	0.37

Analyte	Conc1	Conc2	Avg Conc	%D
Carbon dioxide	5.29	5.28	5.28	0.05
Oxygen	2.32	2.28	2.3	0.88
Nitrogen	4.77	4.69	4.73	0.87
Methane	3.94	3.96	3.95	0.26
Carbon monoxide	5.4	5.36	5.38	0.37



Report Date: 15-Oct-2018 10:21:39

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3clcs20181008a.d

Injection Date: 08-Oct-2018 13:20:39

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 3

Client ID:

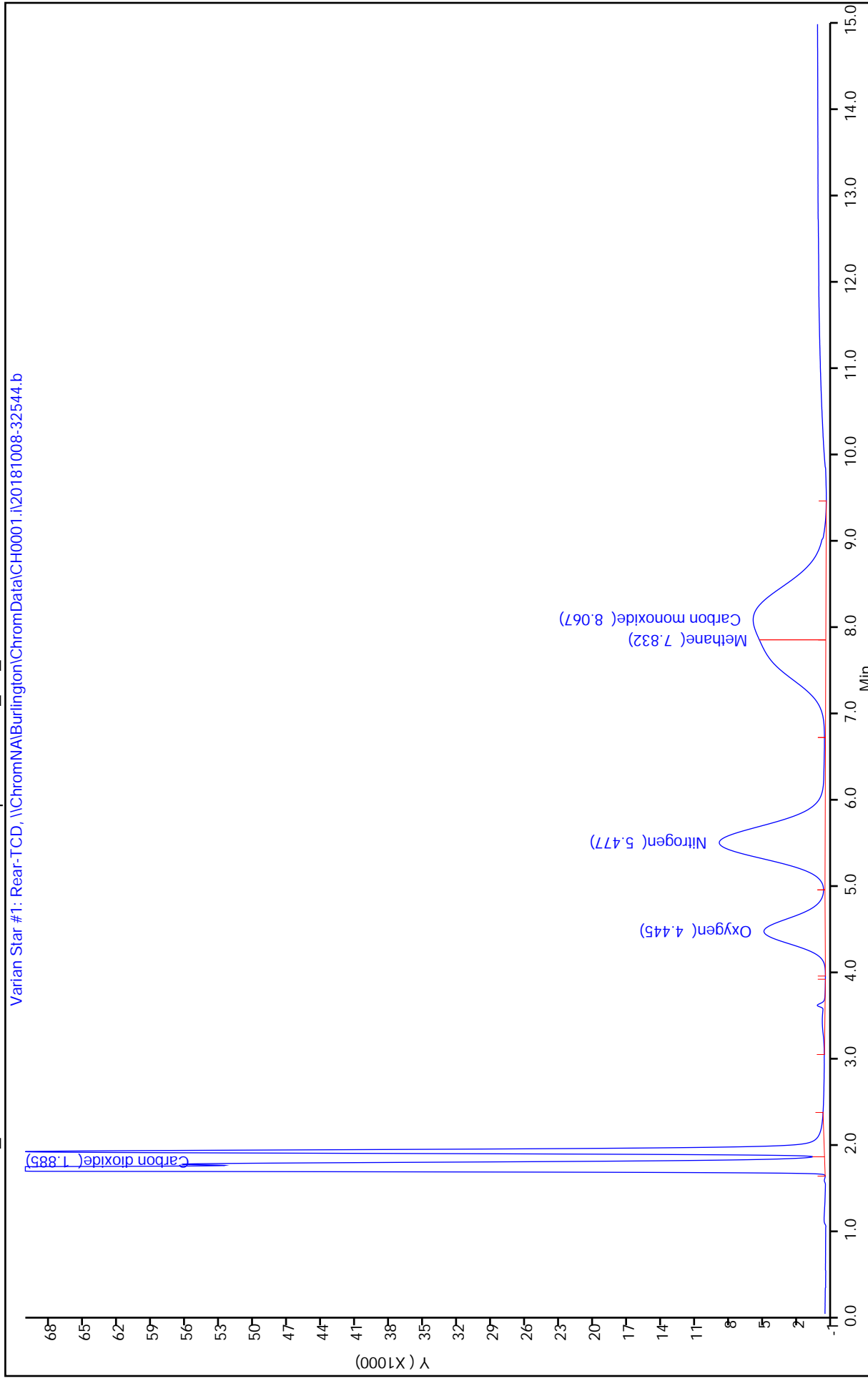
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits



Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b

Report Date: 15-Oct-2018 10:21:40

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3clcs20181008b.d

Injection Date: 08-Oct-2018 13:44:41

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 4

Client ID:

Purge Vol: 2.000 mL

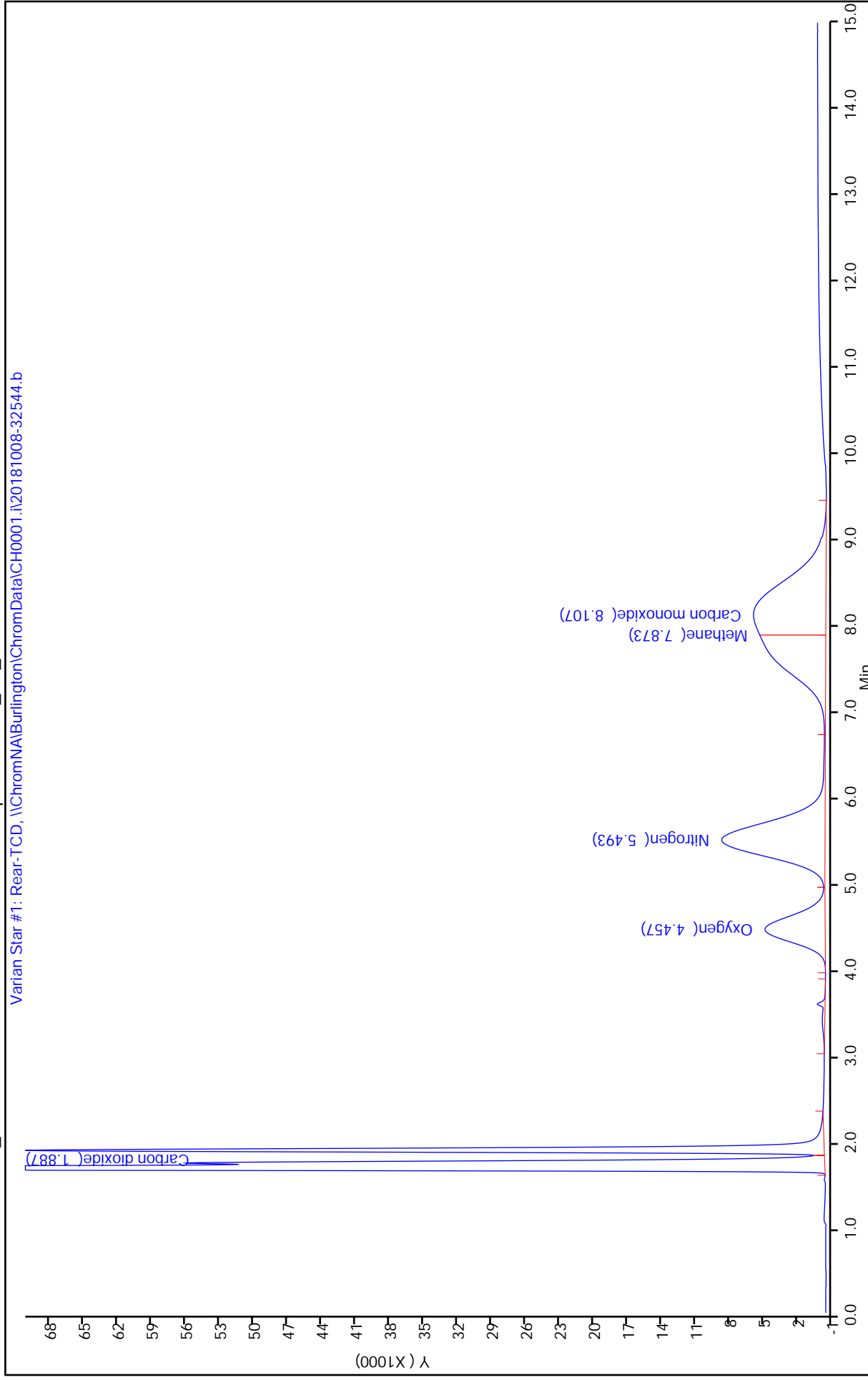
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA3C\_CH0001.i

Limit Group: AI\_3C\_Limits

Varian Star #1: Rear-TCD, \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b



TestAmerica Burlington

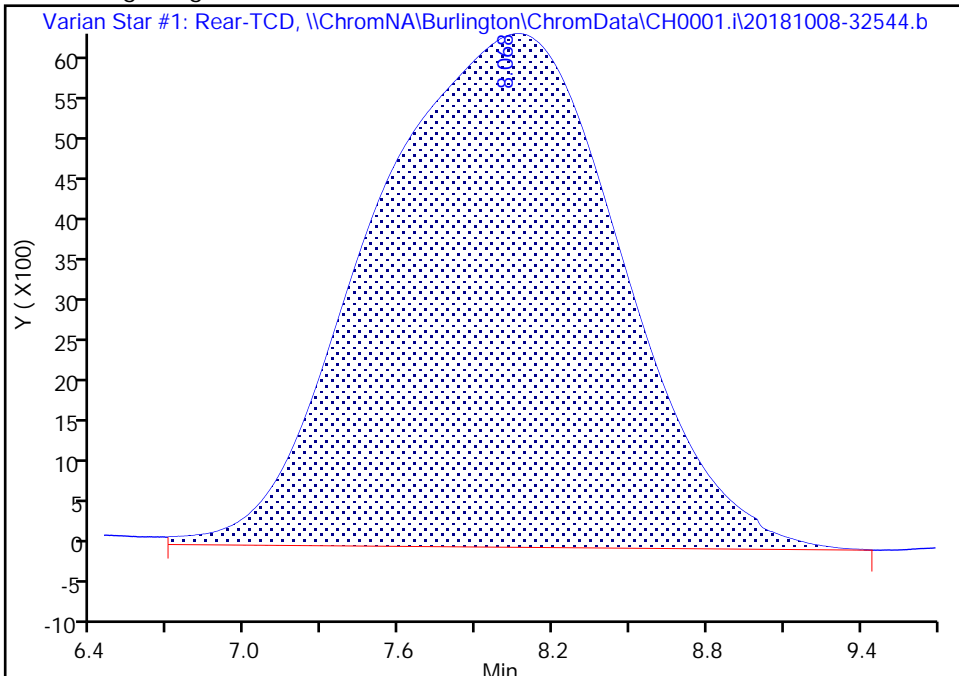
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3clcs20181008a.d  
Injection Date: 08-Oct-2018 13:20:39 Instrument ID: CH0001.i  
Lims ID: lcs  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 3  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

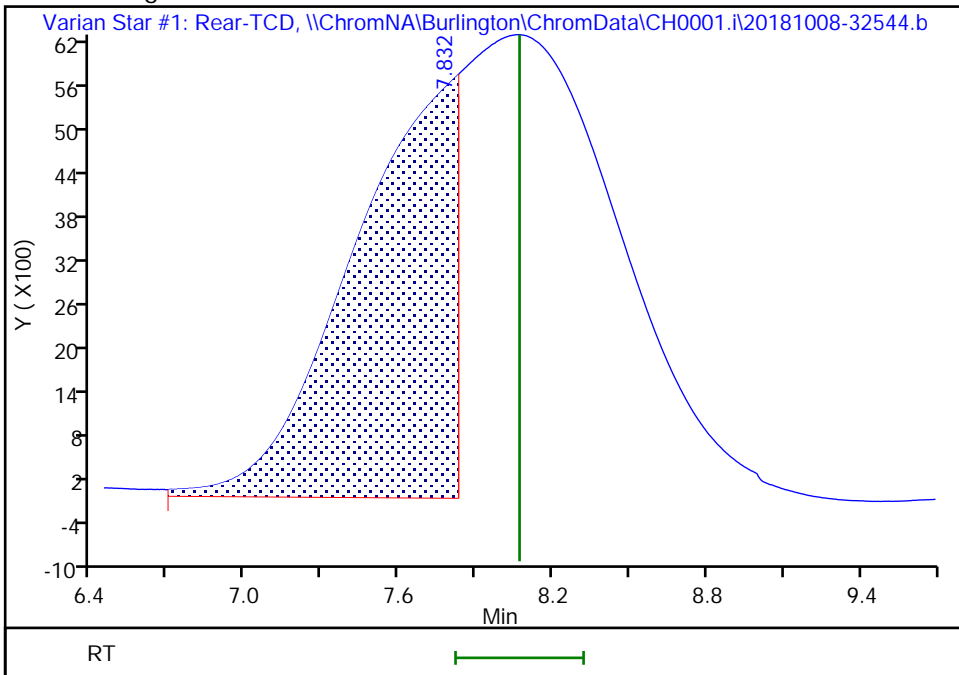
RT: 8.07  
Area: 427887  
Amount: 10.445771  
Amount Units: % v/v

Processing Integration Results



RT: 7.83  
Area: 161484  
Amount: 3.942221  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:21:40  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
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TestAmerica Burlington

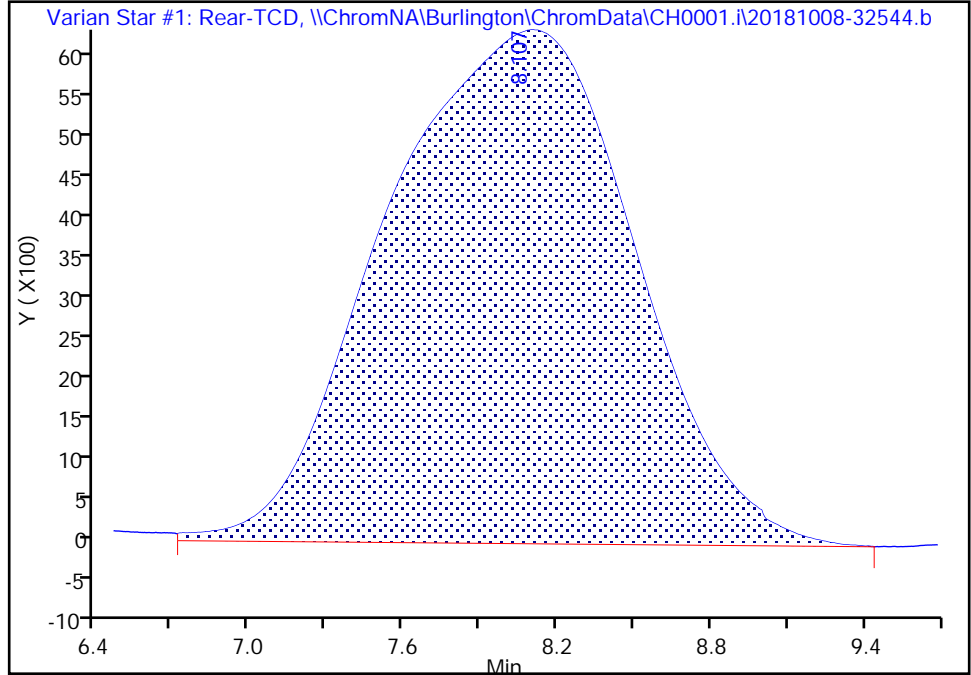
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32544.b\3clcs20181008b.d  
Injection Date: 08-Oct-2018 13:44:41 Instrument ID: CH0001.i  
Lims ID: lcs  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 4  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA3C\_CH0001.i Limit Group: AI\_3C\_Limits  
Column: Detector Varian Star #1: Rear-TCD

4 Methane, CAS: 74-82-8

Signal: 1

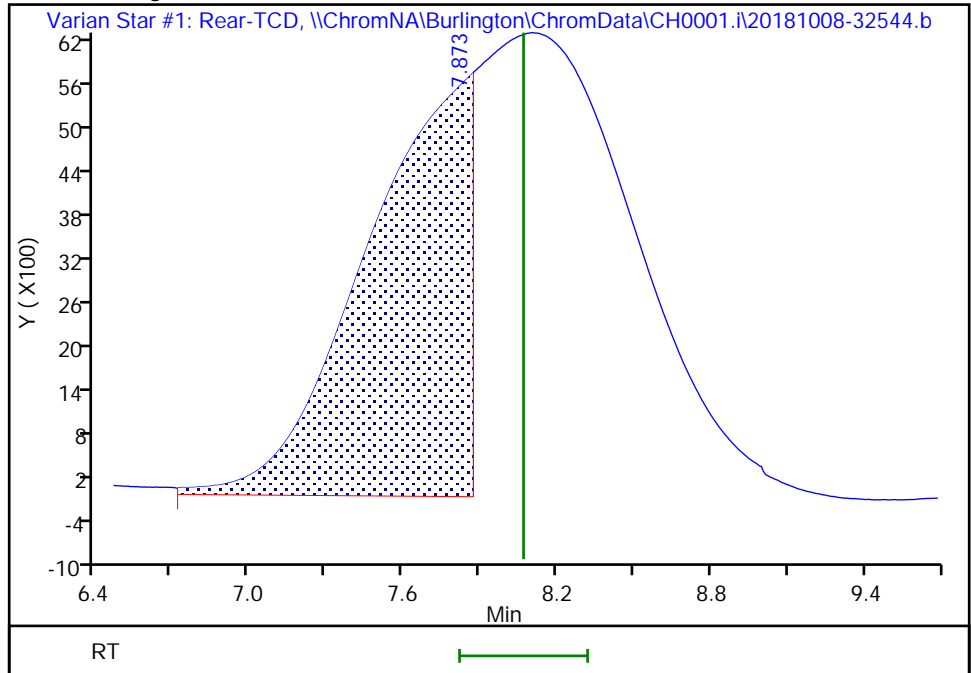
RT: 8.11  
Area: 426776  
Amount: 10.418649  
Amount Units: % v/v

Processing Integration Results



RT: 7.87  
Area: 162323  
Amount: 3.962703  
Amount Units: % v/v

Manual Integration Results



Reviewer: desjardinsb, 13-Oct-2018 16:22:31  
Audit Action: Split an Integrated Peak

Audit Reason: Split Peak  
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AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Start Date: 08/17/2015 09:23

Analysis Batch Number: 92935 End Date: 08/17/2015 18:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 200-92935/1		08/17/2015 09:23	1	ic-01001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/2		08/17/2015 10:20	1	ic-02001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/3		08/17/2015 11:34	1	ic-03002.d-avg	CTR-1 3.175 (mm)
ICIS 200-92935/4		08/17/2015 12:09	1	icis-04001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/5		08/17/2015 13:16	1	co cal1002.d-avg	CTR-1 3.175 (mm)
IC 200-92935/6		08/17/2015 13:48	1	co 10%001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/8		08/17/2015 14:58	1	co2 100%001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/7		08/17/2015 15:46	1	ch4 100%001.d-avg	CTR-1 3.175 (mm)
IC 200-92935/9		08/17/2015 16:49	1	zero air002.d-avg	CTR-1 3.175 (mm)
IC 200-92935/11		08/17/2015 17:37	1	n2 100%002.d-avg	CTR-1 3.175 (mm)
ICV 200-92935/10		08/17/2015 18:25	1	icv002.d-avg	CTR-1 3.175 (mm)

AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Start Date: 10/08/2018 12:15

Analysis Batch Number: 135231 End Date: 10/09/2018 13:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-135231/1		10/08/2018 12:15	1	3cccv20181008a.d-avg	CTR-1 3.175 (mm)
LCS 200-135231/2		10/08/2018 13:20	1	3clcs20181008a.d-avg	CTR-1 3.175 (mm)
MB 200-135231/3		10/08/2018 18:00	1	mb20181008a.d-avg	CTR-1 3.175 (mm)
ZZZZZ		10/08/2018 18:49	1		CTR-1 3.175 (mm)
ZZZZZ		10/08/2018 19:37	2.5		CTR-1 3.175 (mm)
200-45504-1		10/08/2018 20:41	1.9	200-45504-a-1e.d-avg	CTR-1 3.175 (mm)
200-45504-2		10/08/2018 21:45	1.97	200-45504-a-2e.d-avg	CTR-1 3.175 (mm)
200-45504-3		10/08/2018 22:50	1.97	200-45504-a-3e.d-avg	CTR-1 3.175 (mm)
200-45504-4		10/08/2018 23:54	4.97	200-45504-a-4e.d-avg	CTR-1 3.175 (mm)
200-45504-5		10/09/2018 01:02	5.11	200-45504-a-5e.d-avg	CTR-1 3.175 (mm)
200-45504-6		10/09/2018 02:09	5.14	200-45504-a-6e.d-avg	CTR-1 3.175 (mm)
200-45504-7		10/09/2018 03:13	4.69	200-45504-a-7e.d-avg	CTR-1 3.175 (mm)
200-45504-8		10/09/2018 04:17	5.62	200-45504-a-8e.d-avg	CTR-1 3.175 (mm)
200-45504-9		10/09/2018 05:22	4.8	200-45504-a-9e.d-avg	CTR-1 3.175 (mm)
ZZZZZ		10/09/2018 08:11	1.63		CTR-1 3.175 (mm)
ZZZZZ		10/09/2018 08:59	4.29		CTR-1 3.175 (mm)
ZZZZZ		10/09/2018 11:16	3.98		CTR-1 3.175 (mm)
CCVC 200-135231/18		10/09/2018 13:19	1	3ccvc20181009a.d-avg	CTR-1 3.175 (mm)

AIR - GC VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Batch Number: 92935 Batch Start Date: 08/17/15 09:23 Batch Analyst: Desjardins, William R

Batch Method: EPA 3C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	AT3CCAL1i 00014	AT3CCAL2i 00012
IC 200-92935/1		EPA 3C		1	1	2 mL	2 mL	2 mL	
IC 200-92935/2		EPA 3C		1	1	2 mL	2 mL		2 mL
IC 200-92935/3		EPA 3C		1	1	2 mL	2 mL		
ICIS 200-92935/4		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/5		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/6		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/7		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/8		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/9		EPA 3C		1	1	2 mL	2 mL		
ICV 200-92935/10		EPA 3C		1	1	2 mL	2 mL		
IC 200-92935/11		EPA 3C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AT3CCAL3i 00012	AT3CCCVs 00060	AT3CCO2s 00009	AT3CCOCa10.1% 00005	AT3CCOs 00004	AT3CLCSs 00003
IC 200-92935/1		EPA 3C							
IC 200-92935/2		EPA 3C							
IC 200-92935/3		EPA 3C		2 mL					
ICIS 200-92935/4		EPA 3C			2 mL				
IC 200-92935/5		EPA 3C					2 mL		
IC 200-92935/6		EPA 3C						2 mL	
IC 200-92935/7		EPA 3C				2 mL			
IC 200-92935/8		EPA 3C							
IC 200-92935/9		EPA 3C							
ICV 200-92935/10		EPA 3C							2 mL
IC 200-92935/11		EPA 3C							

Lab Sample ID	Client Sample ID	Method Chain	Basis	AT3CMETHs 00007	AT3Czeroair 00007	ATnitrogens 00008			
IC 200-92935/1		EPA 3C							

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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Batch Number: 92935 Batch Start Date: 08/17/15 09:23 Batch Analyst: Desjardins, William R

Batch Method: EPA 3C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	AT3CMETHs 00007	AT3Czeroair 00007	ATnitrogens 00008			
IC 200-92935/2		EPA 3C							
IC 200-92935/3		EPA 3C							
ICIS 200-92935/4		EPA 3C							
IC 200-92935/5		EPA 3C							
IC 200-92935/6		EPA 3C							
IC 200-92935/7		EPA 3C							
IC 200-92935/8		EPA 3C		2 mL					
IC 200-92935/9		EPA 3C			2 mL				
ICV 200-92935/10		EPA 3C							
IC 200-92935/11		EPA 3C				2 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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Batch Number: 135231 Batch Start Date: 10/08/18 12:15 Batch Analyst: Desjardins, William R

Batch Method: EPA 3C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	AT3CCCVs 00066	AT3CLCSs 00008
CCV 200-135231/1		EPA 3C		1	1	2 mL	2 mL	2 mL	
LCS 200-135231/2		EPA 3C		1	1	2 mL	2 mL		2 mL
MB 200-135231/3		EPA 3C		1	1	2 mL	2 mL		
200-45504-A-1	KTSG-COMP-9	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-2	KTSG-COMP-10	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-3	KTSG-COMP-11	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-4	KTSG-COMP-12	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-5	KTSG-COMP-13	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-6	KTSG-COMP-14	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-7	KTSG-COMP-15	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-8	KTSG-COMP-16	EPA 3C	T	1	1	2 mL	2 mL		
200-45504-A-9	KTSG-COMP-17	EPA 3C	T	1	1	2 mL	2 mL		
CCVC 200-135231/18		EPA 3C		1	1	2 mL	2 mL	2 mL	

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: PBS Engineering and Environmental

Job No.: 200-45504-1  
SDG No.: 200-45504-1

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	Analyst
200-45504-1	6	-8.1	0.73	4.38	5.7	1.39	8.33		1.90	1.90	10/05/18 10:16	Desjardins, William R
200-45504-2	6	-8.9	0.70	4.22	5.6	1.38	8.29		1.97	1.97	10/05/18 10:17	Desjardins, William R
200-45504-3	6	-8.5	0.72	4.30	6.0	1.41	8.45		1.97	1.97	10/05/18 10:17	Desjardins, William R
200-45504-4	6	-7.8	0.74	4.44	5.3	1.36	8.16		1.84	1.84	10/05/18 10:18	Desjardins, William R
200-45504-4	6	1.2	1.04	6.24	26.6	2.81	16.86		2.70	4.97	10/09/18 16:20	Desjardins, William R
200-45504-5	6	-8.5	0.72	4.30	5.5	1.37	8.24		1.92	1.92	10/05/18 10:18	Desjardins, William R
200-45504-5	6	2.4	1.08	6.48	27.6	2.88	17.27		2.66	5.11	10/09/18 16:21	Desjardins, William R
200-45504-6	6	-8.1	0.73	4.38	5.6	1.38	8.29		1.89	1.89	10/05/18 10:20	Desjardins, William R
200-45504-6	6	1.6	1.05	6.32	27.3	2.86	17.14		2.71	5.14	10/09/18 16:19	Desjardins, William R
200-45504-7	6	-6.0	0.80	4.80	5.7	1.39	8.33		1.74	1.74	10/05/18 10:20	Desjardins, William R
200-45504-7	6	2.0	1.07	6.40	27.7	2.88	17.31		2.70	4.69	10/09/18 16:21	Desjardins, William R
200-45504-8	6	-10.3	0.66	3.93	5.5	1.37	8.24		2.10	2.10	10/05/18 10:20	Desjardins, William R
200-45504-8	6	1.6	1.05	6.32	26.8	2.82	16.94		2.68	5.62	10/09/18 16:22	Desjardins, William R
200-45504-9	6	-7.4	0.75	4.52	5.5	1.37	8.24		1.83	1.83	10/05/18 10:21	Desjardins, William R
200-45504-9	6	1.2	1.04	6.24	25.5	2.73	16.41		2.63	4.80	10/09/18 16:23	Desjardins, William R

**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)

# Method EPA 25C

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Nonmethane Organic Compounds (NMOC)  
by Method EPA\_25C

FORM III  
AIR - GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Matrix: Air Level: Low Lab File ID: 25clcs201808a.d-avg  
 Lab ID: LCS 200-135246/2 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppm-C)	LCS CONCENTRATION (ppm-C)	LCS % REC	QC LIMITS REC	#
NMOC as Carbon - Uncorrected	750	720	96	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III EPA 25C

FORM IV  
AIR - GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab File ID: mb20181008a.d-avg Lab Sample ID: MB 200-135246/3  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CH0001.i Date Analyzed: 10/08/2018 18:00  
 GC Column: Carbo/Unibeads ID: 2 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-135246/2	25clcs201808a.d-avg	10/08/2018 17:12
KTSG-COMP-9	200-45504-1	200-45504-a-1f.d-avg	10/08/2018 20:57
KTSG-COMP-10	200-45504-2	200-45504-a-2f.d-avg	10/08/2018 22:01
KTSG-COMP-11	200-45504-3	200-45504-a-3f.d-avg	10/08/2018 23:06
KTSG-COMP-12	200-45504-4	200-45504-a-4f.d-avg	10/09/2018 00:11
KTSG-COMP-13	200-45504-5	200-45504-a-5f.d-avg	10/09/2018 01:19
KTSG-COMP-14	200-45504-6	200-45504-a-6f.d-avg	10/09/2018 02:25
KTSG-COMP-15	200-45504-7	200-45504-a-7f.d-avg	10/09/2018 03:29
KTSG-COMP-16	200-45504-8	200-45504-a-8f.d-avg	10/09/2018 04:33
KTSG-COMP-17	200-45504-9	200-45504-a-9f.d-avg	10/09/2018 05:38

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-9</u>	Lab Sample ID: <u>200-45504-1</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-1f.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/26/2018 10:05</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/08/2018 20:57</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.9</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135246</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	940		11	11
STL02483	NMOC as Carbon - N2 Corrected	1100		11	11
STL02482	NMOC as Carbon - O2 Corrected	1000		11	11

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1f.d  
 Lims ID: 200-45504-A-1  
 Client ID: KTSG-COMP-9  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 20:57:32 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 2.000 mL Dil. Factor: 1.9000  
 Sample Info: 200-45504-A-1f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:29:03

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.043	9.908	0.135	8803561	489.2	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1g.d  
 Lims ID: 200-45504-A-1  
 Client ID: KTSG-COMP-9  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 21:13:35 ALS Bottle#: 0 Worklist Smp#: 14  
 Purge Vol: 2.000 mL Dil. Factor: 1.9000  
 Sample Info: 200-45504-A-1g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:29:51

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.047	9.908	0.139	9011180	500.8	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1h.d  
 Lims ID: 200-45504-A-1  
 Client ID: KTSG-COMP-9  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 21:29:40 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.9000  
 Sample Info: 200-45504-A-1h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:36:30

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	10.035	9.908	0.127	8964493	498.2	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-1f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-1g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-1h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

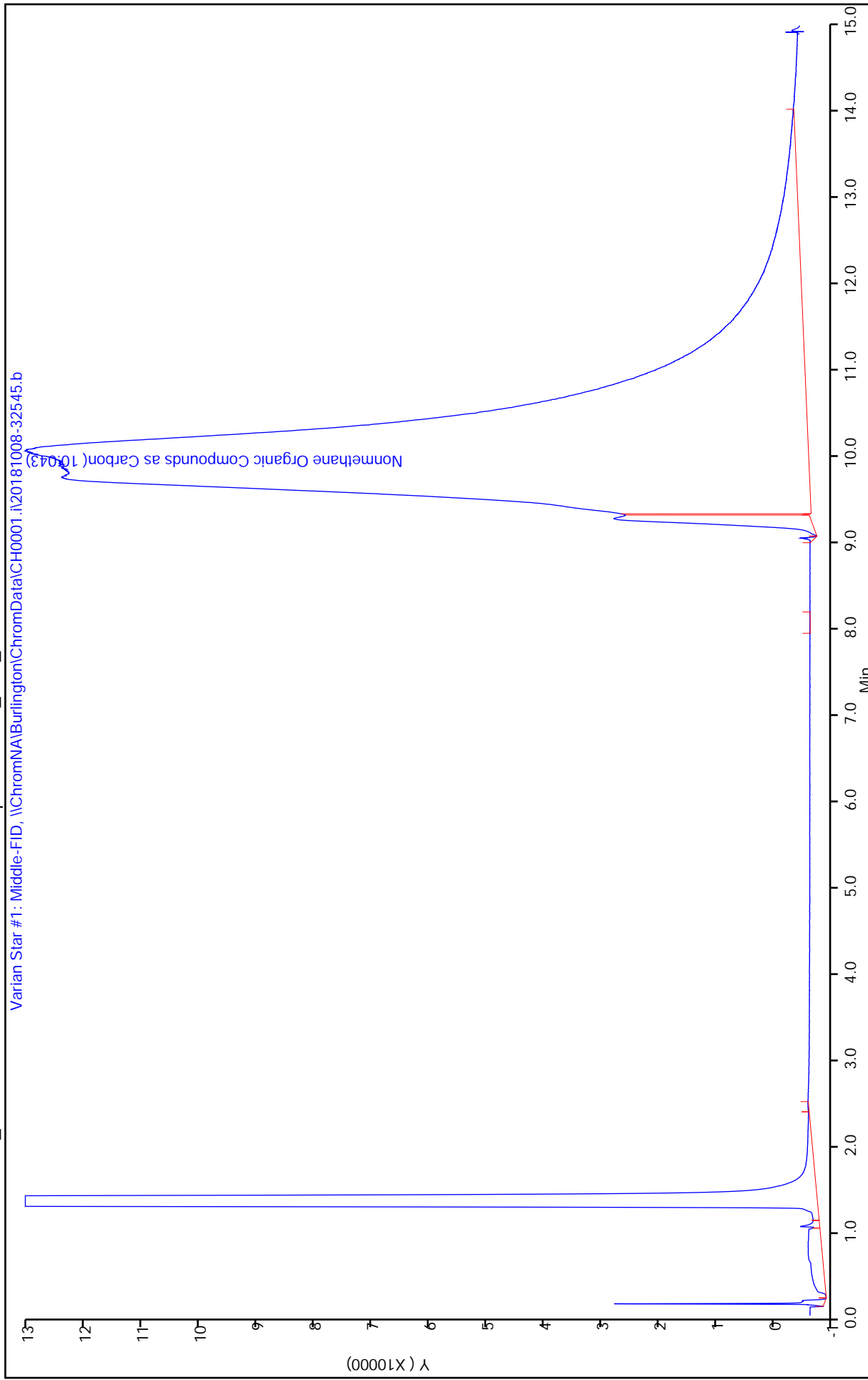
Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	8803561	9011180	8964493	8926411.33	1.38

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	489.22	500.76	498.17	496.05	1.38

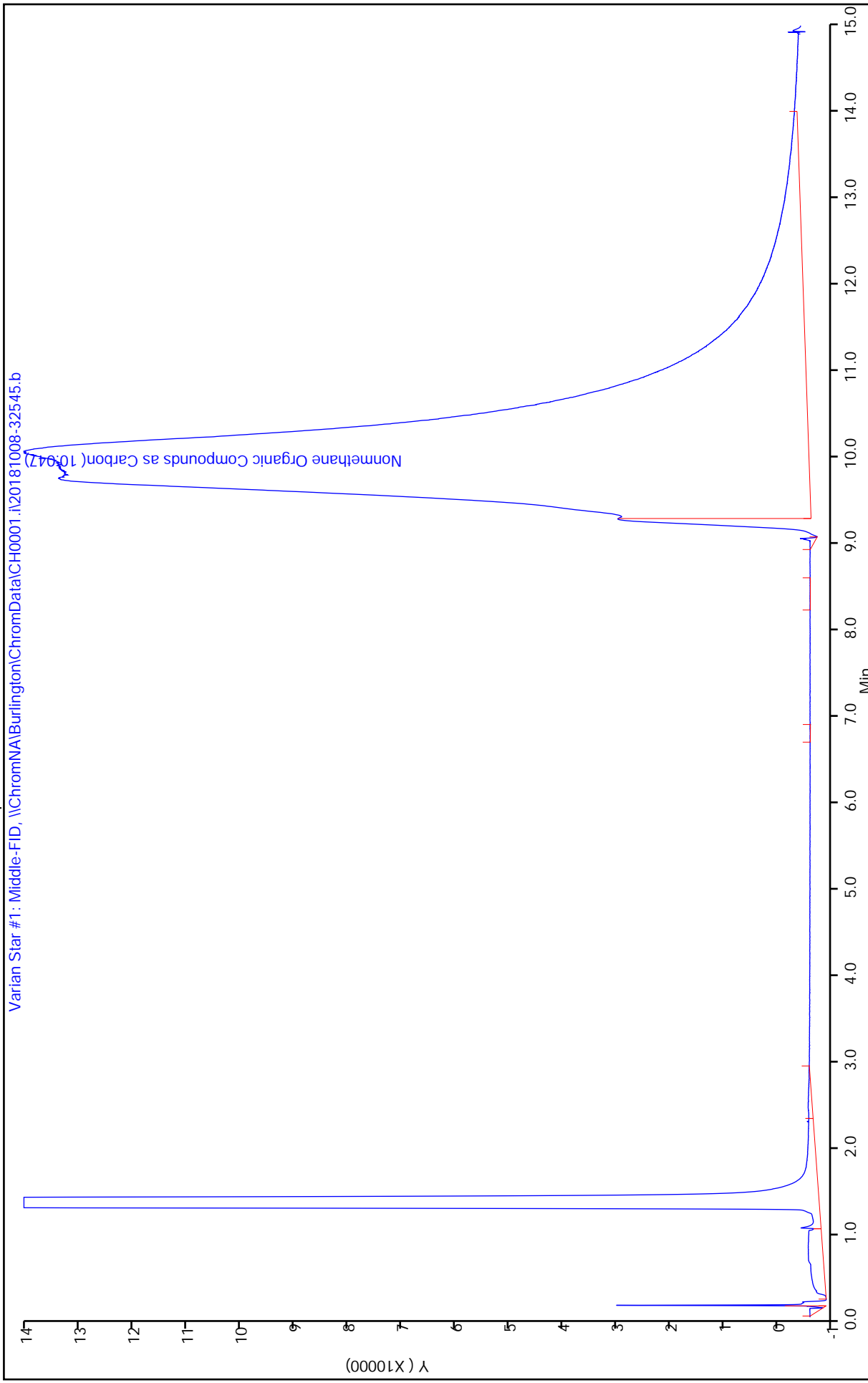
TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1f.d  
Injection Date: 08-Oct-2018 20:57:32 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1 Worklist Smp#: 13  
Client ID: KTSG-COMP-9 Dil. Factor: 1.9000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



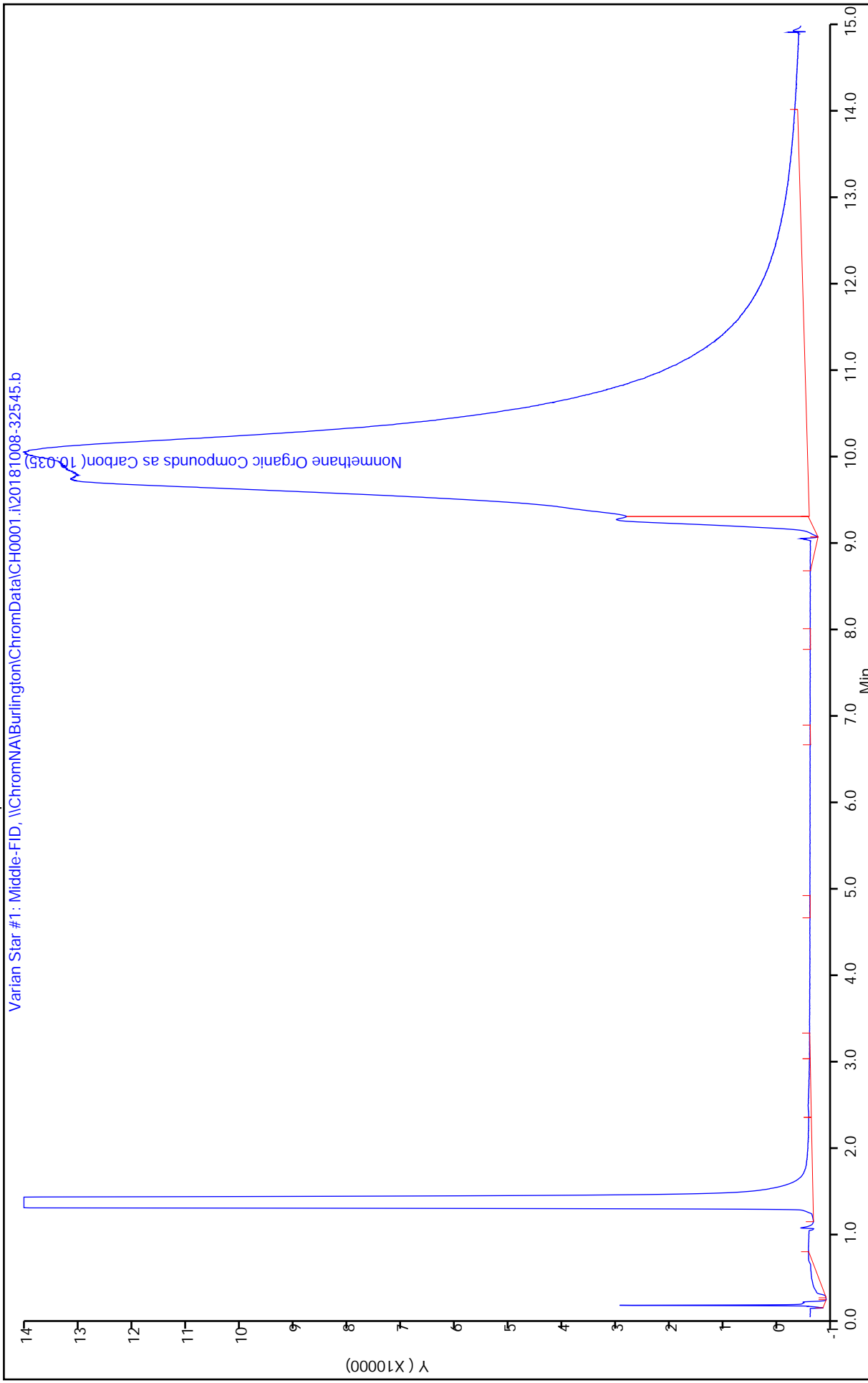
TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1g.d  
Injection Date: 08-Oct-2018 21:13:35 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1 Worklist Smp#: 14  
Client ID: KTSG-COMP-9 Dil. Factor: 1.9000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1h.d  
Injection Date: 08-Oct-2018 21:29:40 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1 Worklist Smp#: 15  
Client ID: KTSG-COMP-9 Dil. Factor: 1.9000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

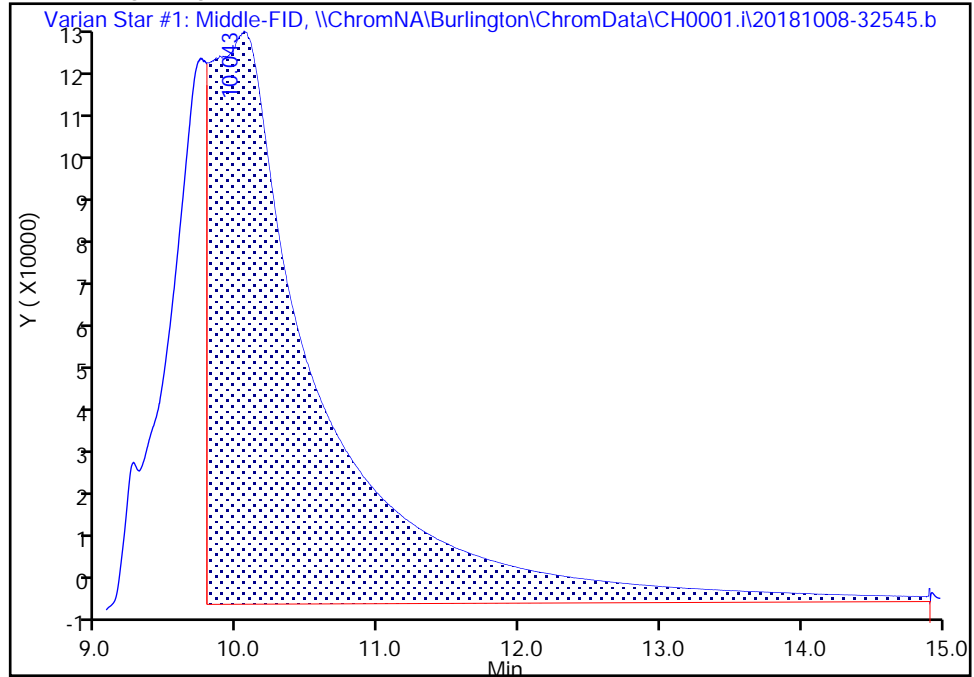
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Injection Date: 08-Oct-2018 20:57:32 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1  
Client ID: KTSG-COMP-9  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 13  
Purge Vol: 2.000 mL Dil. Factor: 1.9000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

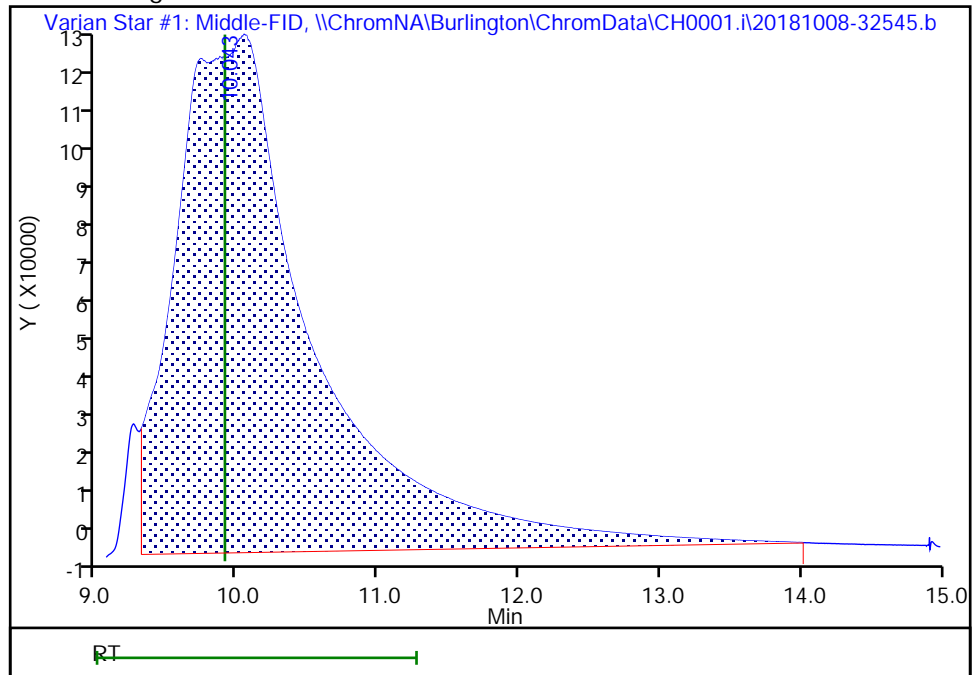
RT: 10.04  
Area: 6933467  
Amount: 385.3001  
Amount Units: ppm-C

Processing Integration Results



RT: 10.04  
Area: 8803561  
Amount: 489.2233  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

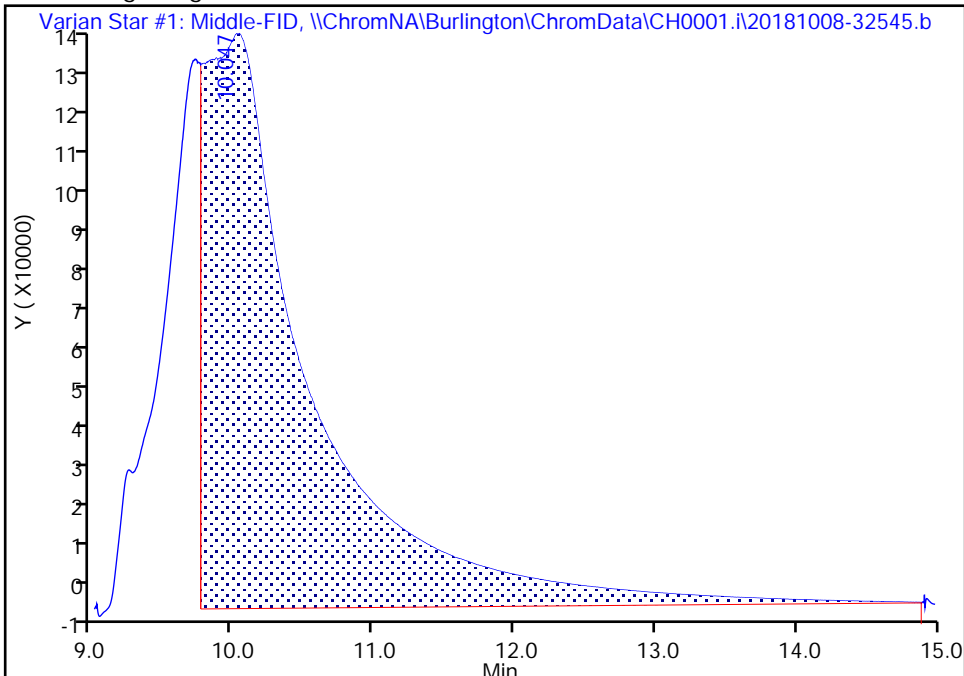
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Injection Date: 08-Oct-2018 21:13:35 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1  
Client ID: KTSG-COMP-9  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 14  
Purge Vol: 2.000 mL Dil. Factor: 1.9000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

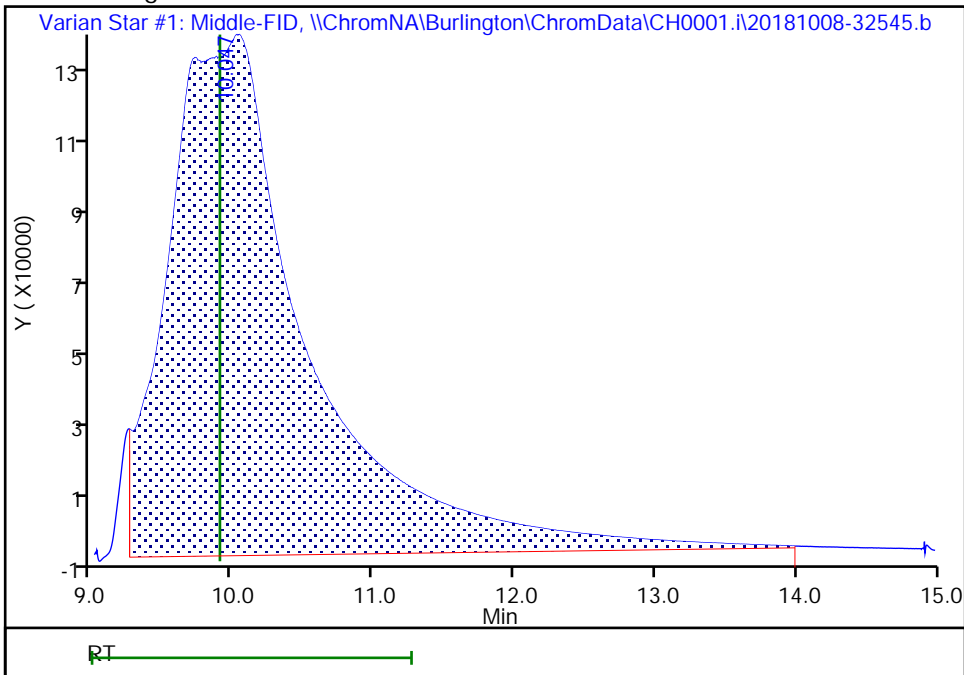
RT: 10.05  
Area: 6808595  
Amount: 378.3609  
Amount Units: ppm-C

Processing Integration Results



RT: 10.05  
Area: 9011180  
Amount: 500.7609  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:29:47  
Audit Action: Manually Integrated



TestAmerica Burlington

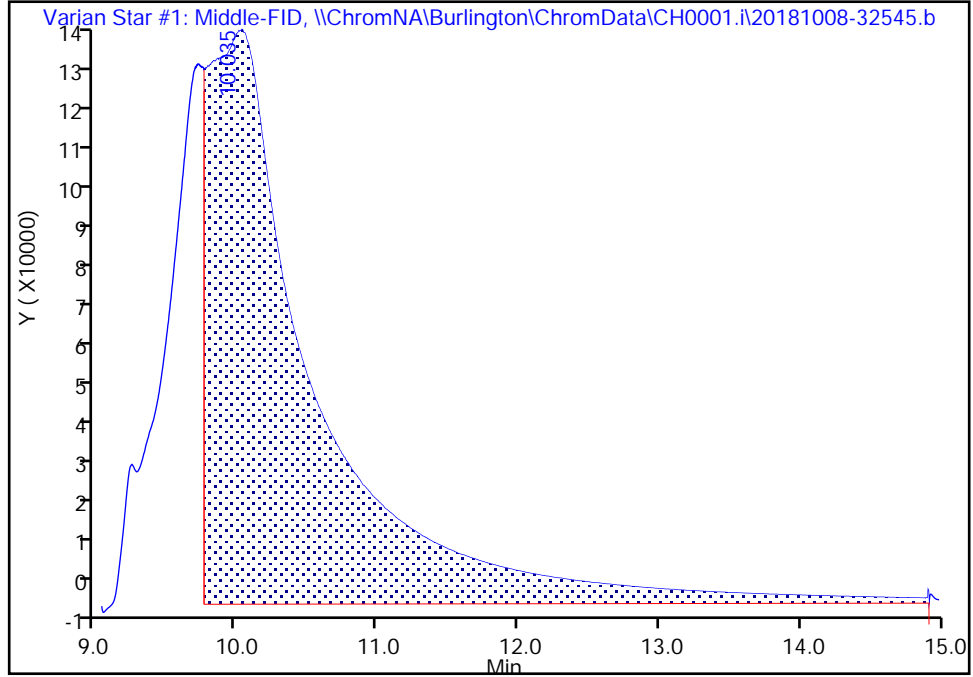
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-1h.d  
Injection Date: 08-Oct-2018 21:29:40 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-1 Lab Sample ID: 200-45504-1  
Client ID: KTSG-COMP-9  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.9000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

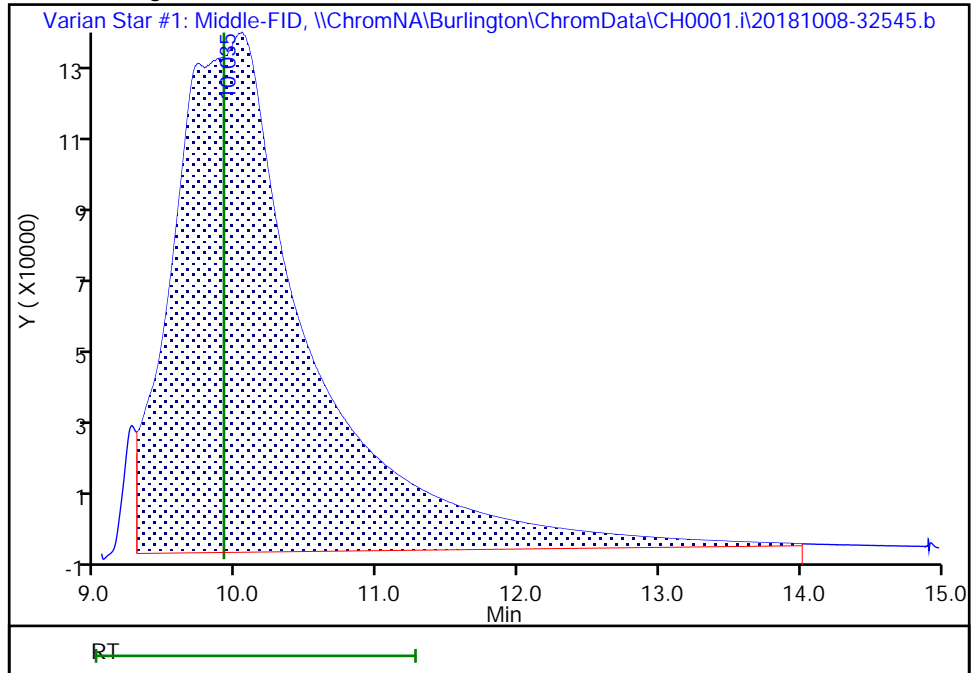
RT: 10.04  
Area: 7022543  
Amount: 390.2502  
Amount Units: ppm-C

Processing Integration Results



RT: 10.04  
Area: 8964493  
Amount: 498.1664  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:36:27  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-10</u>	Lab Sample ID: <u>200-45504-2</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-2f.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/26/2018 11:04</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/08/2018 22:01</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1.97</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135246</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	1500		12	12
STL02483	NMOC as Carbon - N2 Corrected	1600		12	12
STL02482	NMOC as Carbon - O2 Corrected	1600		12	12

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-2f.d  
 Lims ID: 200-45504-A-2  
 Client ID: KTSG-COMP-10  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 22:01:47 ALS Bottle#: 0 Worklist Smp#: 16  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-2f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.905	9.908	-0.003	13563982	753.8	

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-2g.d  
 Lims ID: 200-45504-A-2  
 Client ID: KTSG-COMP-10  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 22:17:51 ALS Bottle#: 0 Worklist Smp#: 17  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-2g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.918	9.908	0.010	13683899	760.4	

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-2h.d  
 Lims ID: 200-45504-A-2  
 Client ID: KTSG-COMP-10  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 22:34:03 ALS Bottle#: 0 Worklist Smp#: 18  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-2h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.917	9.908	0.009	13558267	753.4	

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-2f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-2g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-2h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13563982	13683899	13558267	13602049.33	0.6

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	753.76	760.43	753.45	755.88	0.6

Report Date: 15-Oct-2018 13:55:44

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-2f.d

Injection Date: 08-Oct-2018 22:01:47

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-2

Lab Sample ID: 200-45504-2

Worklist Smp#: 16

Client ID: KTSG-COMP-10

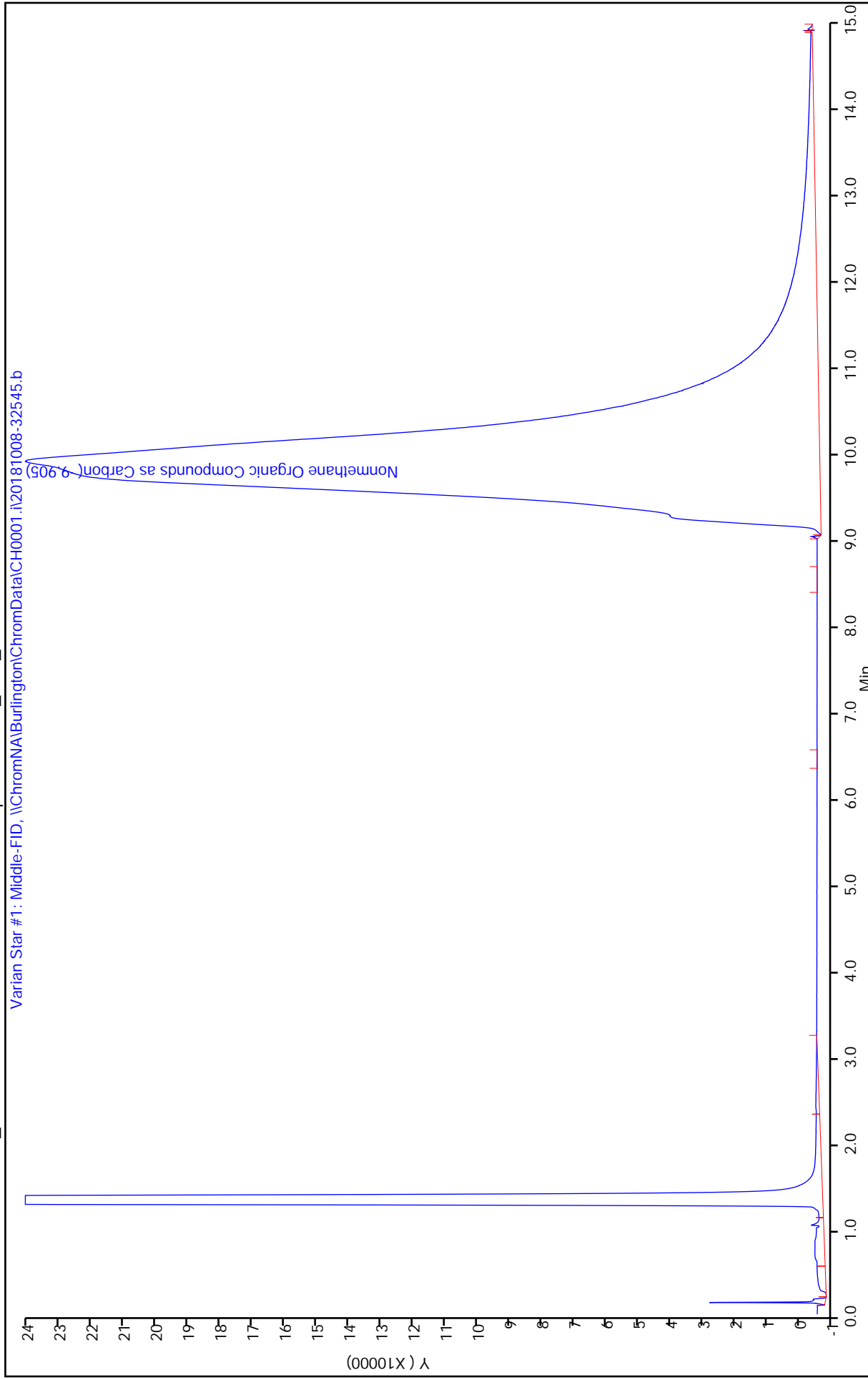
Purge Vol: 2.000 mL

Dil. Factor: 1.9700

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:55:45

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-2g.d

Injection Date: 08-Oct-2018 22:17:51

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-2

Lab Sample ID: 200-45504-2

Worklist Smp#: 17

Client ID: KTSG-COMP-10

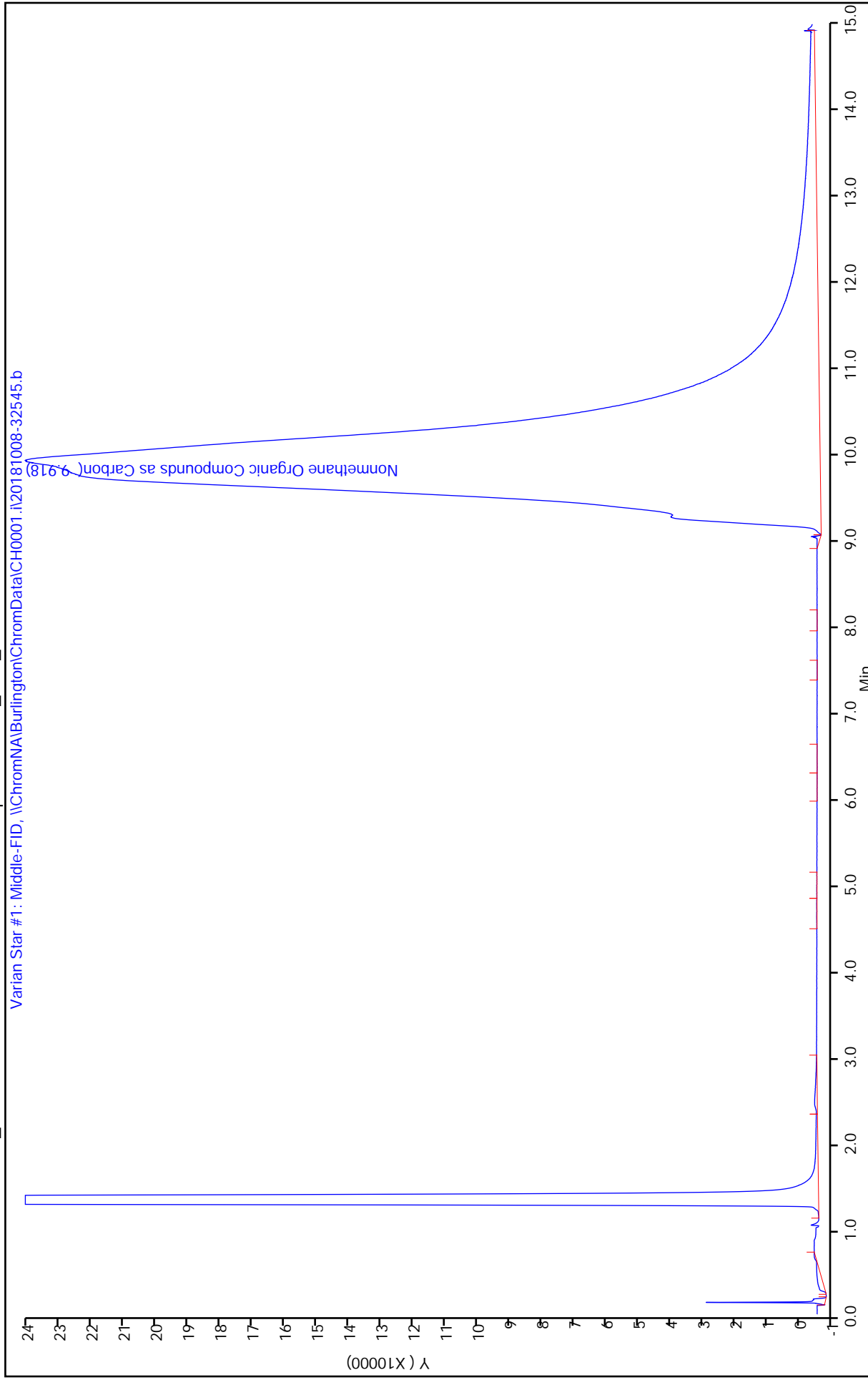
Purge Vol: 2.000 mL

Dil. Factor: 1.9700

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





Report Date: 15-Oct-2018 13:55:45

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-2h.d

Injection Date: 08-Oct-2018 22:34:03

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-2

Lab Sample ID: 200-45504-2

Worklist Smp#: 18

Client ID: KTSG-COMP-10

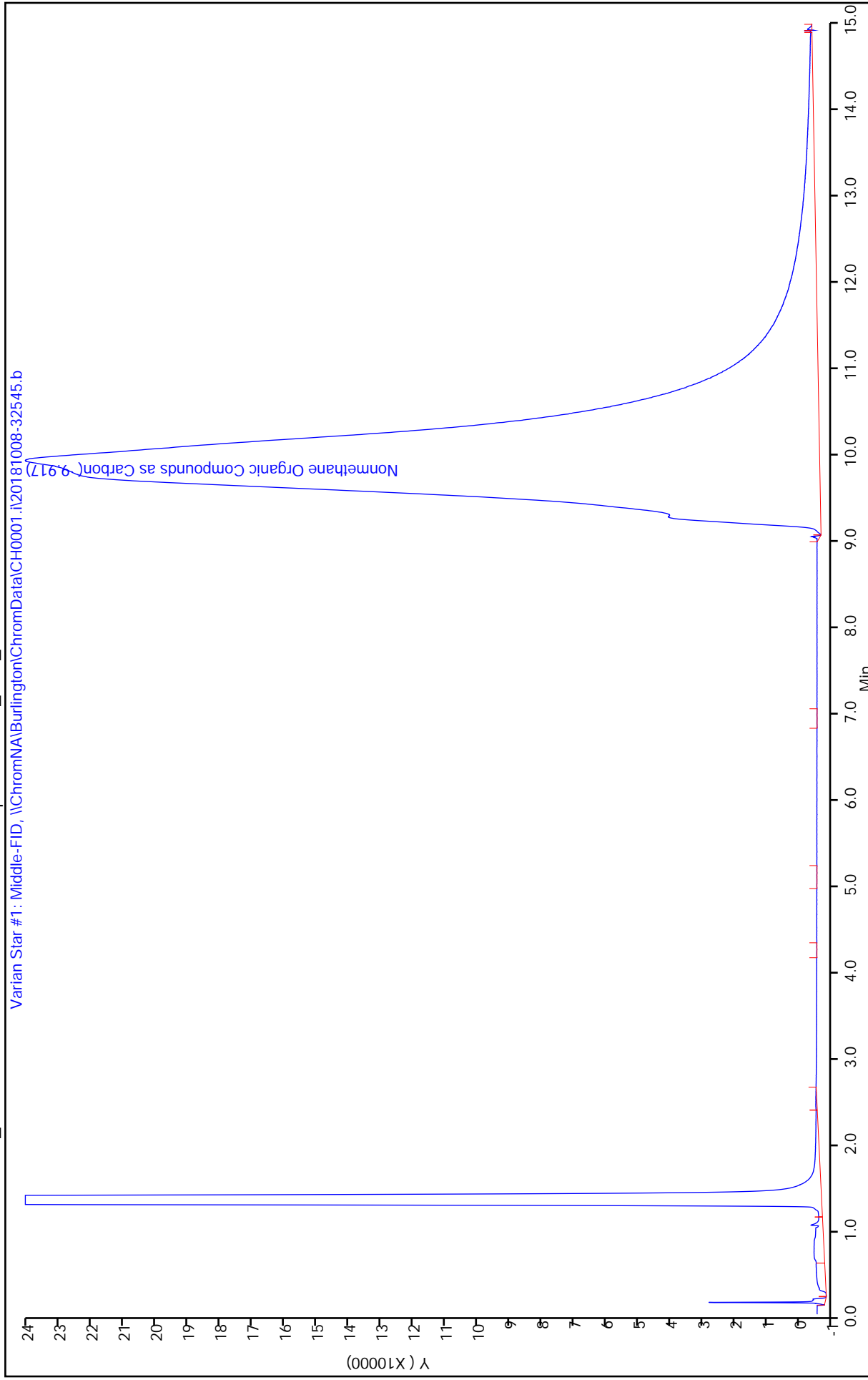
Purge Vol: 2.000 mL

Dil. Factor: 1.9700

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: KTSG-COMP-11 Lab Sample ID: 200-45504-3  
 Matrix: Air Lab File ID: 200-45504-a-3f.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/26/2018 12:15  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/08/2018 23:06  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1.97  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135246 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	2100		12	12
STL02483	NMOC as Carbon - N2 Corrected	2700		12	12
STL02482	NMOC as Carbon - O2 Corrected	2600		12	12

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3f.d  
 Lims ID: 200-45504-A-3  
 Client ID: KTSG-COMP-11  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 23:06:11 ALS Bottle#: 0 Worklist Smp#: 19  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-3f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:37:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.880	9.908	-0.028	18670784	1037.6	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3g.d  
 Lims ID: 200-45504-A-3  
 Client ID: KTSG-COMP-11  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 23:22:16 ALS Bottle#: 0 Worklist Smp#: 20  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-3g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:37:45

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.873	9.908	-0.035	19157940	1064.6	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3h.d  
 Lims ID: 200-45504-A-3  
 Client ID: KTSG-COMP-11  
 Sample Type: Client  
 Inject. Date: 08-Oct-2018 23:38:17 ALS Bottle#: 0 Worklist Smp#: 21  
 Purge Vol: 2.000 mL Dil. Factor: 1.9700  
 Sample Info: 200-45504-A-3h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:38:09

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.875	9.908	-0.033	19263457	1070.5	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

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z:\ch0001-2hutch\200-45504-a-3h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	18670784	19157940	19263457	19030727	1.89

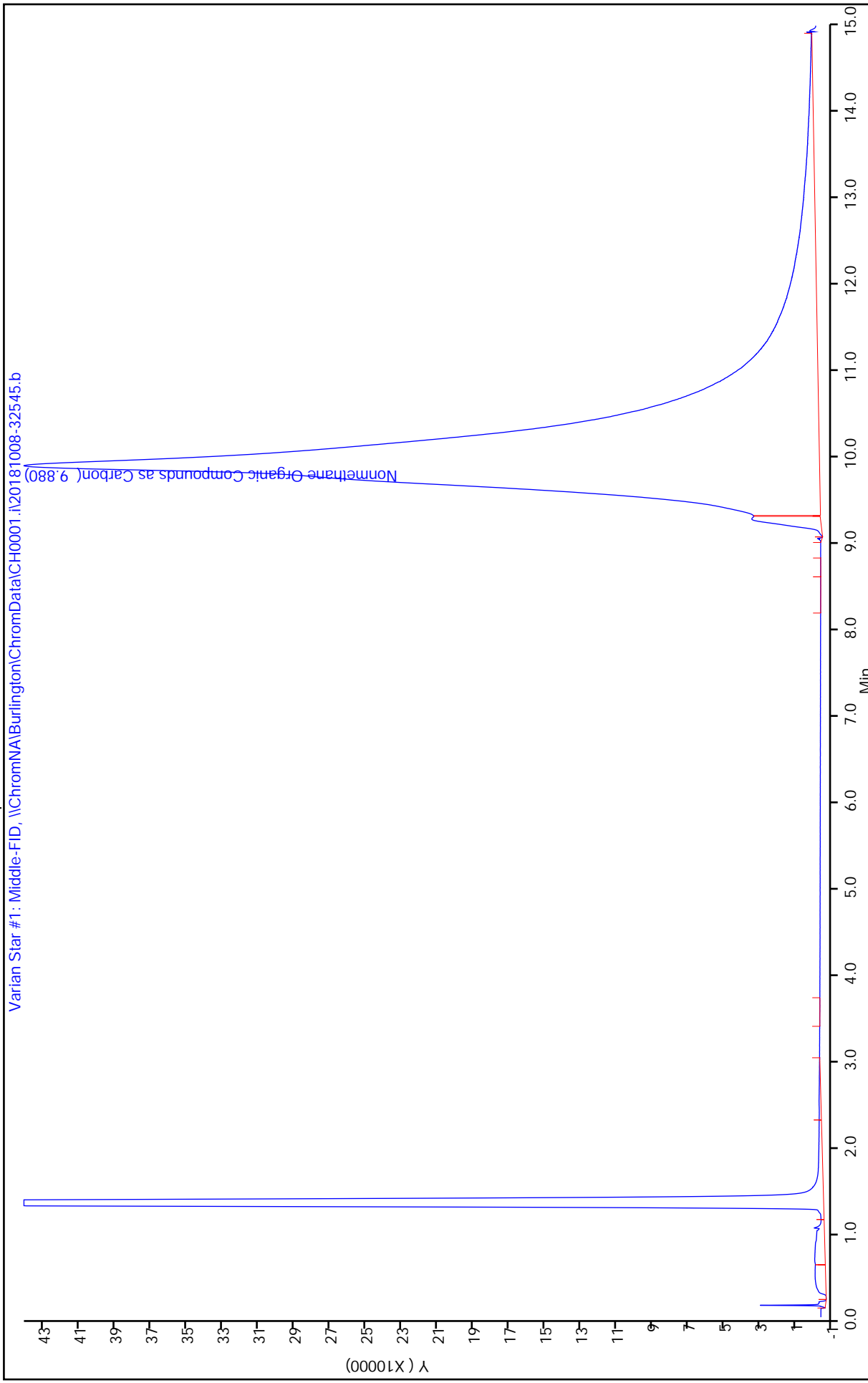
  

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	1037.56	1064.63	1070.49	1057.56	1.89

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3f.d  
Injection Date: 08-Oct-2018 23:06:11  
Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3  
Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Purge Vol: 2.000 mL  
Dil. Factor: 1.9700  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

Operator ID: WRD  
Worklist Smp#: 19



Report Date: 15-Oct-2018 13:55:47

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3g.d

Injection Date: 08-Oct-2018 23:22:16

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-3

Lab Sample ID: 200-45504-3

Worklist Smp#: 20

Client ID: KTSG-COMP-11

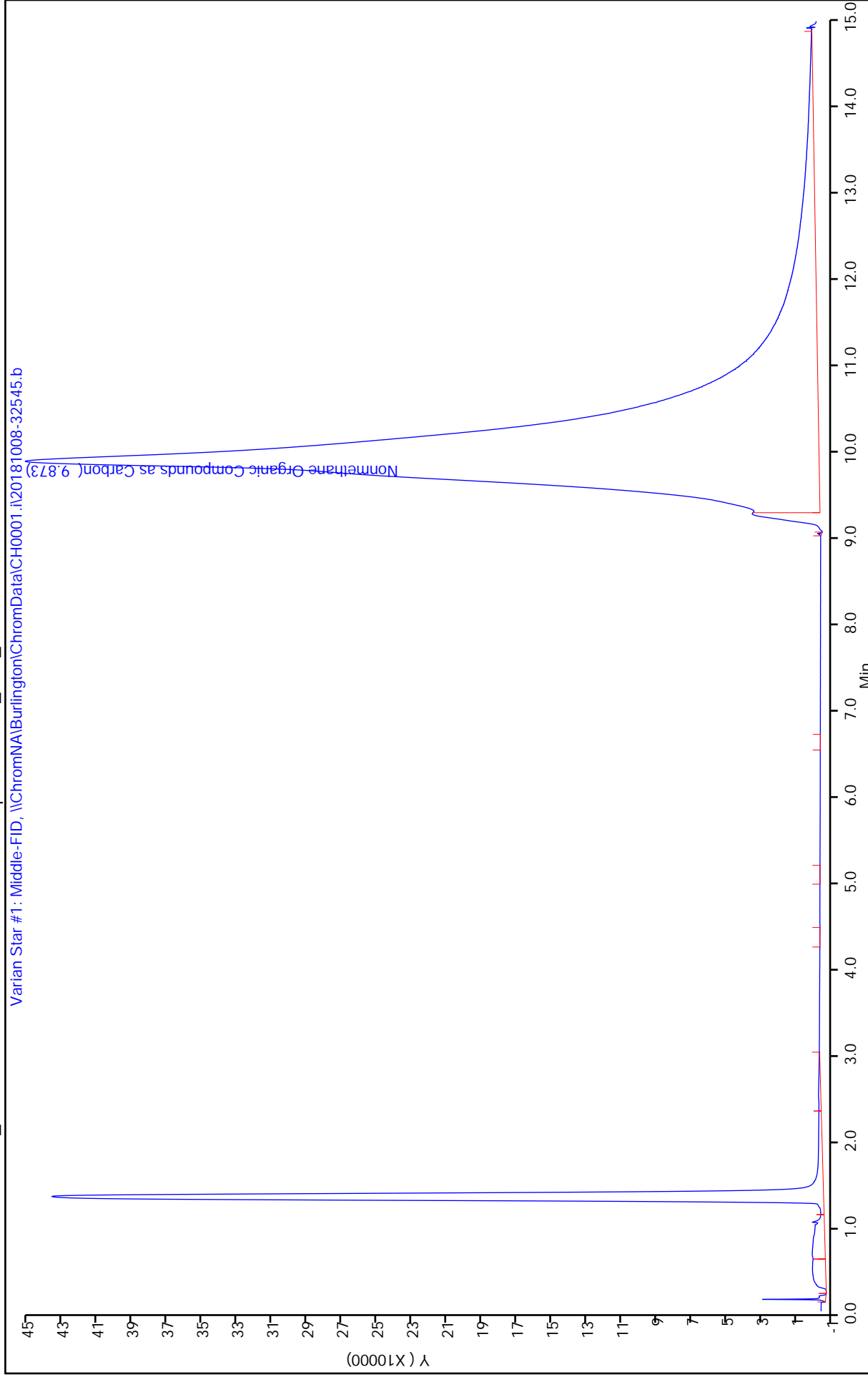
Purge Vol: 2.000 mL

Dil. Factor: 1.9700

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





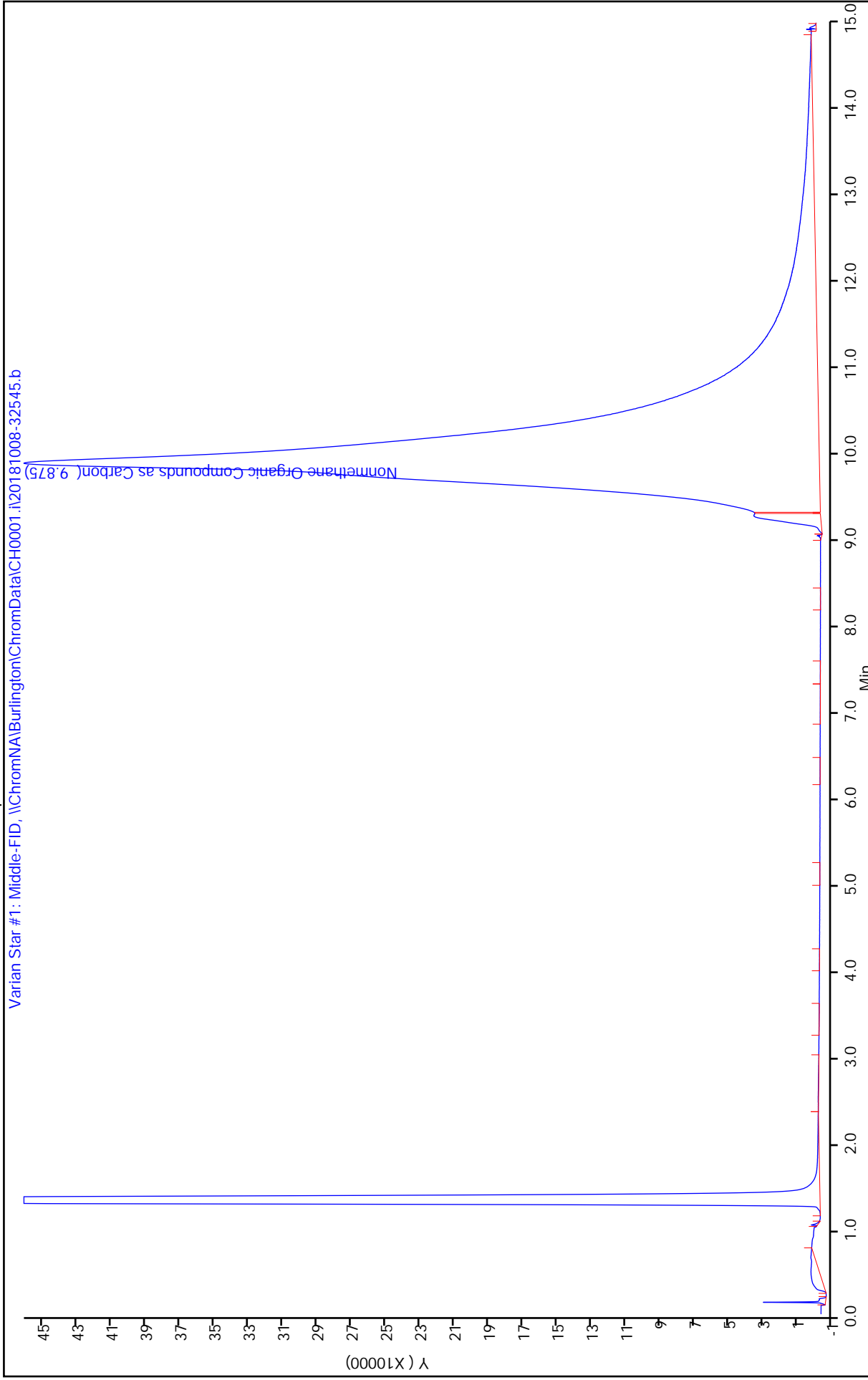
Report Date: 15-Oct-2018 13:55:48

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3h.d  
Injection Date: 08-Oct-2018 23:38:17  
Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3  
Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Purge Vol: 2.000 mL  
Dil. Factor: 1.9700  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

Operator ID: WRD  
Worklist Smp#: 21



TestAmerica Burlington

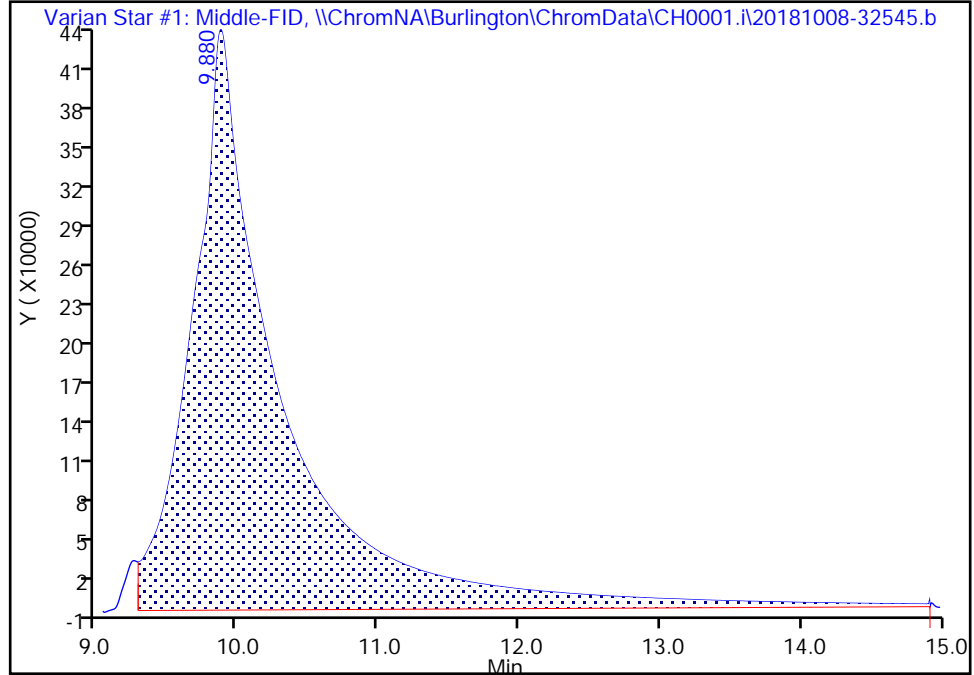
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Injection Date: 08-Oct-2018 23:06:11 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3 Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 19  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

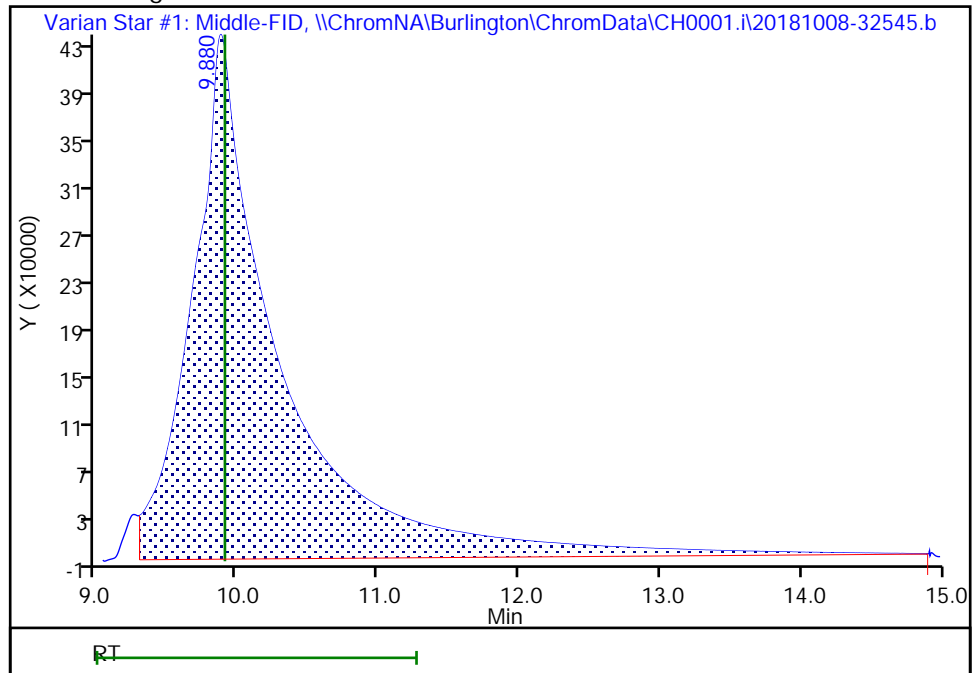
RT: 9.88  
Area: 18942778  
Amount: 1052.6703  
Amount Units: ppm-C

Processing Integration Results



RT: 9.88  
Area: 18670784  
Amount: 1037.5553  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:37:19  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

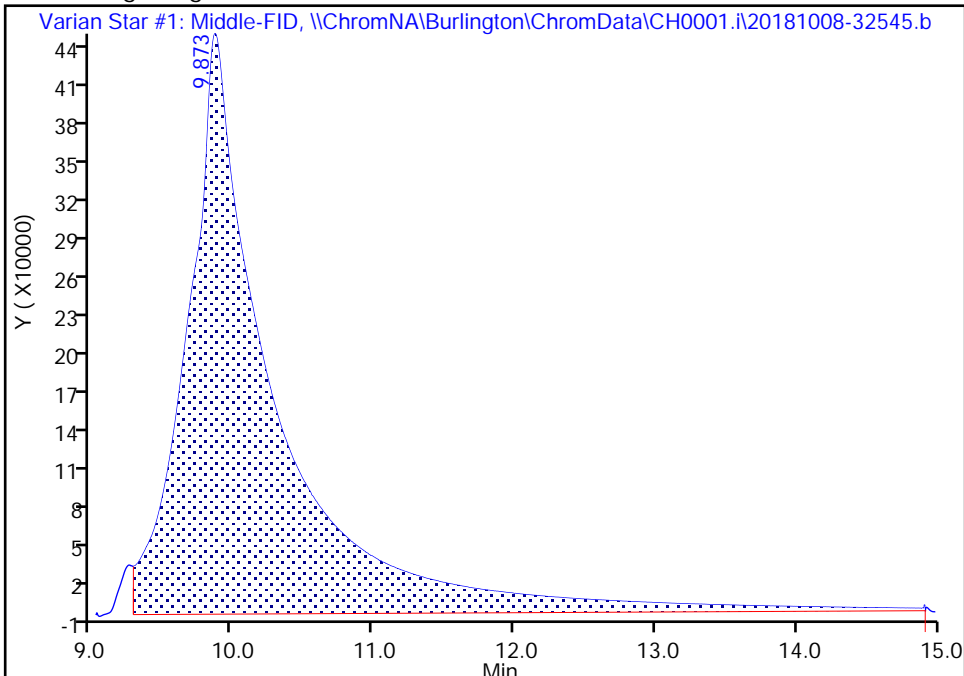
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-3g.d  
Injection Date: 08-Oct-2018 23:22:16 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3 Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 20  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

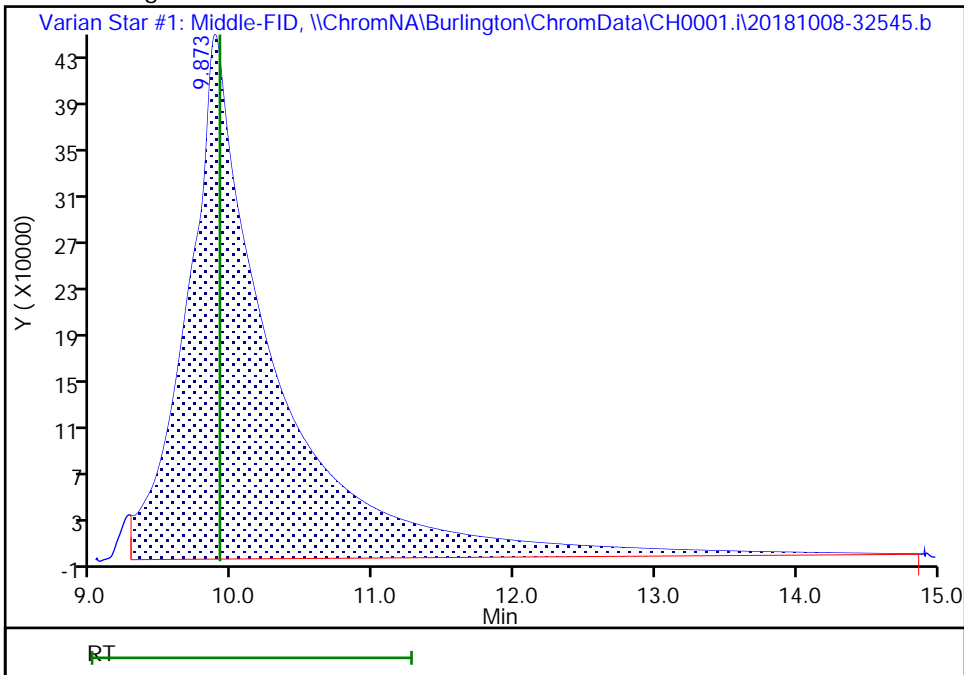
RT: 9.87  
Area: 19382610  
Amount: 1077.1123  
Amount Units: ppm-C

Processing Integration Results



RT: 9.87  
Area: 19157940  
Amount: 1064.6271  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:37:42  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

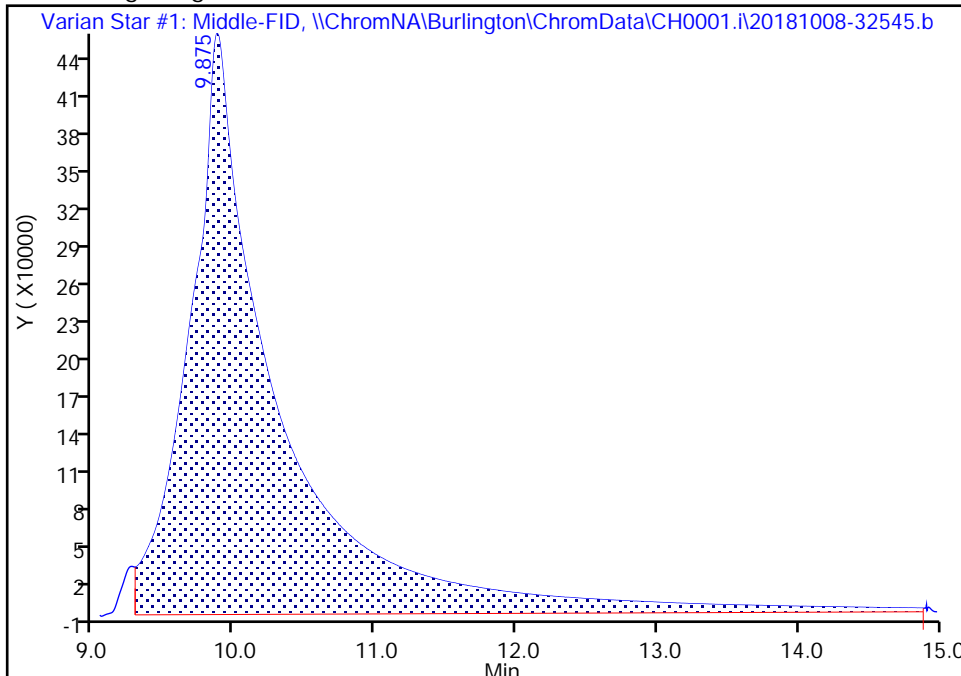
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Injection Date: 08-Oct-2018 23:38:17 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-3 Lab Sample ID: 200-45504-3  
Client ID: KTSG-COMP-11  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 21  
Purge Vol: 2.000 mL Dil. Factor: 1.9700  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

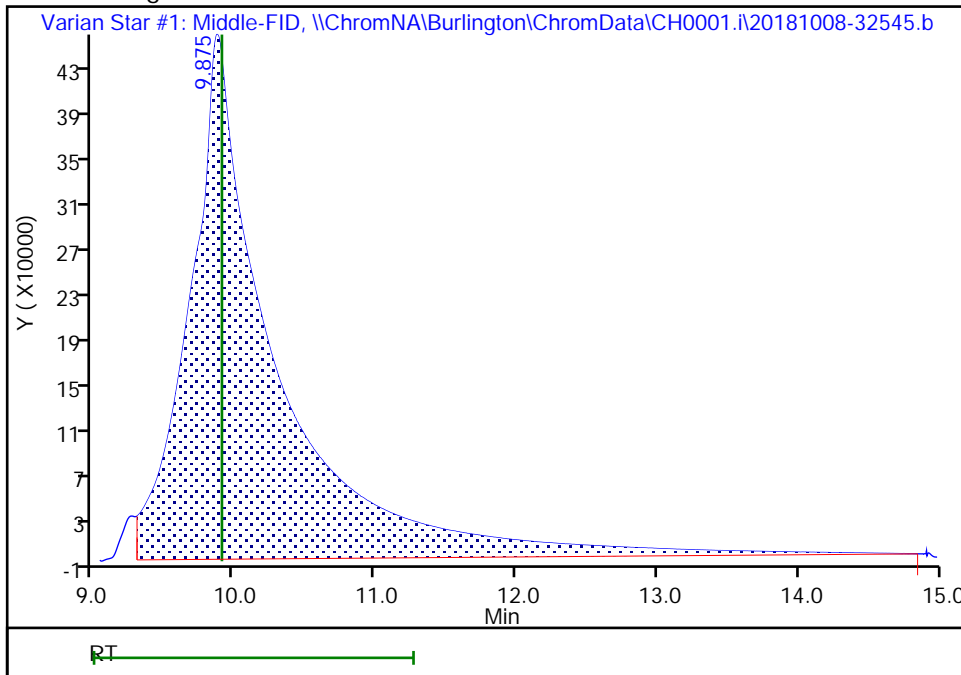
RT: 9.88  
Area: 19758947  
Amount: 1098.0257  
Amount Units: ppm-C

Processing Integration Results



RT: 9.88  
Area: 19263457  
Amount: 1070.4908  
Amount Units: ppm-C

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: KTSG-COMP-12 Lab Sample ID: 200-45504-4  
 Matrix: Air Lab File ID: 200-45504-a-4f.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/26/2018 14:07  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/09/2018 00:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4.97  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135246 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	4000		30	30
STL02483	NMOC as Carbon - N2 Corrected	4700		30	30
STL02482	NMOC as Carbon - O2 Corrected	4500		30	30

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4f.d  
 Lims ID: 200-45504-A-4  
 Client ID: KTSG-COMP-12  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 00:11:05 ALS Bottle#: 0 Worklist Smp#: 22  
 Purge Vol: 2.000 mL Dil. Factor: 4.9700  
 Sample Info: 200-45504-A-4f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:38:28

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.935	9.908	0.027	14735930	818.9	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4g.d  
 Lims ID: 200-45504-A-4  
 Client ID: KTSG-COMP-12  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 00:28:03 ALS Bottle#: 0 Worklist Smp#: 23  
 Purge Vol: 2.000 mL Dil. Factor: 4.9700  
 Sample Info: 200-45504-A-4g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:39:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.945	9.908	0.037	14627100	812.8	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4h.d  
 Lims ID: 200-45504-A-4  
 Client ID: KTSG-COMP-12  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 00:45:10 ALS Bottle#: 0 Worklist Smp#: 24  
 Purge Vol: 2.000 mL Dil. Factor: 4.9700  
 Sample Info: 200-45504-A-4h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:39:18

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.955	9.908	0.047	14461463	803.6	M

**QC Flag Legend**

Review Flags

M - Manually Integrated



Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-4f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-4g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-4h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	14735930	14627100	14461463	14608164.33	1

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	818.89	812.84	803.64	811.79	1

Report Date: 15-Oct-2018 13:55:49

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4f.d

Injection Date: 09-Oct-2018 00:11:05

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-4

Lab Sample ID: 200-45504-4

Worklist Smp#: 22

Client ID: KTSG-COMP-12

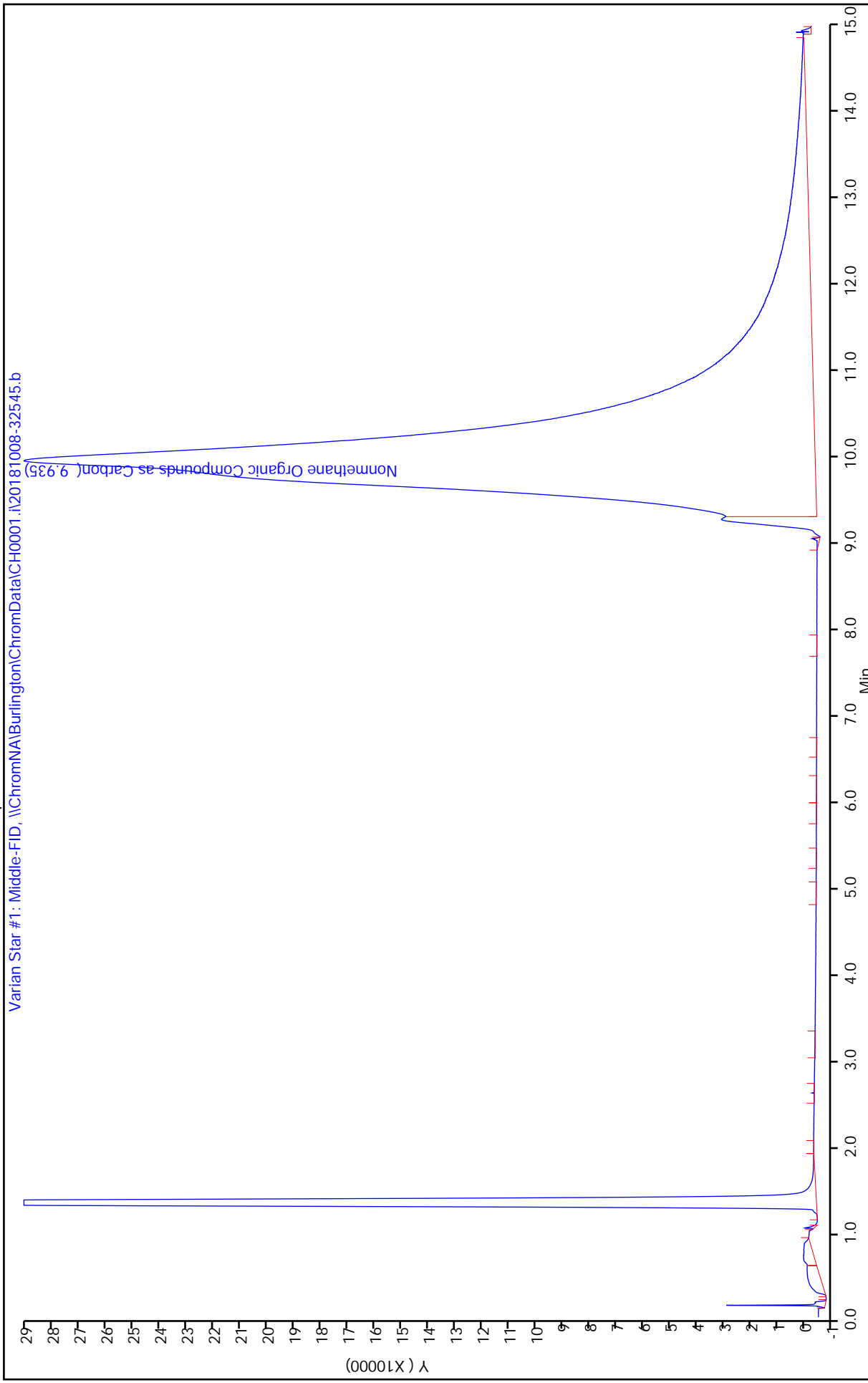
Purge Vol: 2.000 mL

Dil. Factor: 4.9700

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:55:50

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4g.d

Injection Date: 09-Oct-2018 00:28:03

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-4

Lab Sample ID: 200-45504-4

Worklist Smp#: 23

Client ID: KTSG-COMP-12

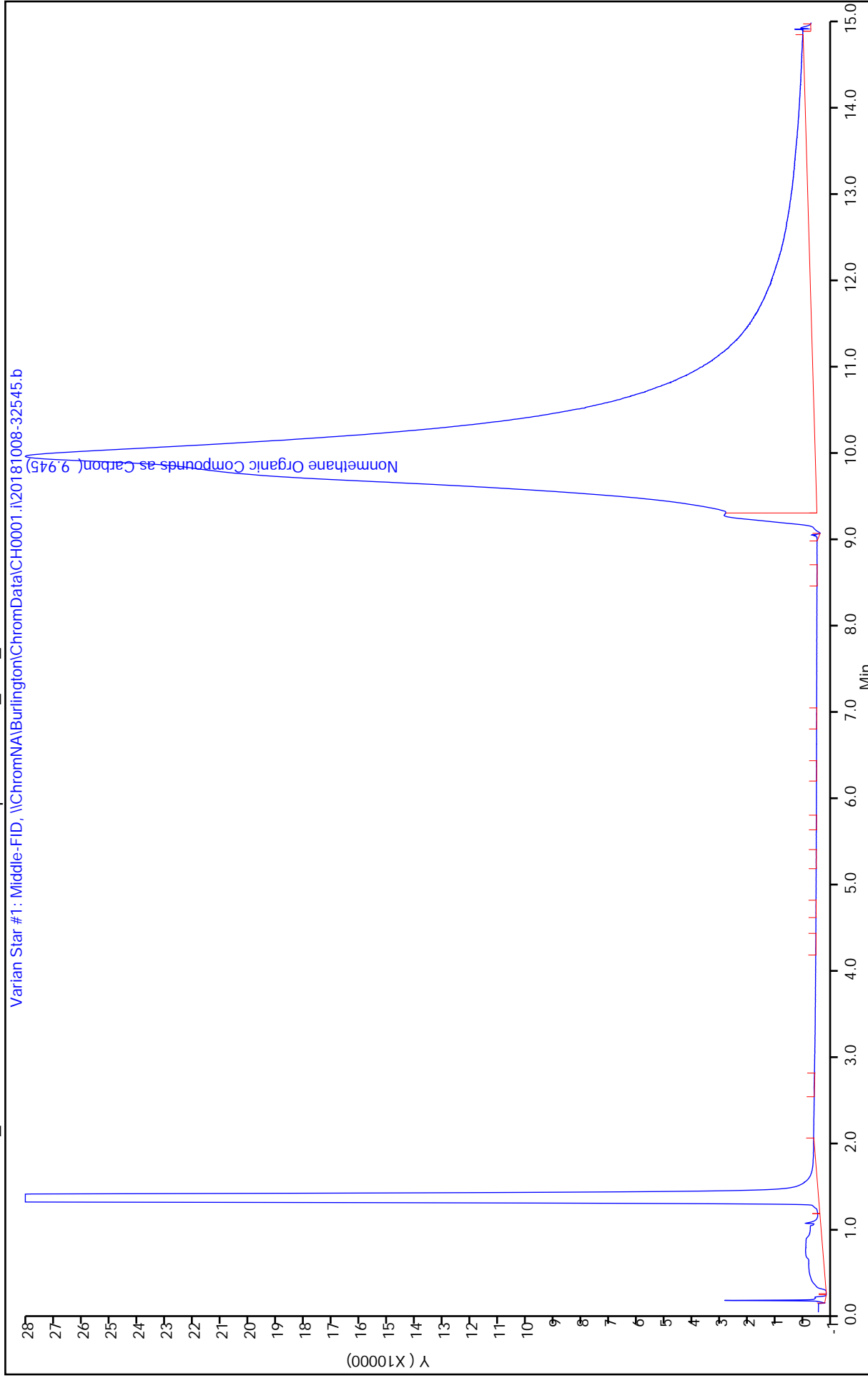
Purge Vol: 2.000 mL

ALS Bottle#: 0

Method: EPA25C\_0001.i

Dil. Factor: 4.9700

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:55:51

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4h.d

Injection Date: 09-Oct-2018 00:45:10

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-4

Lab Sample ID: 200-45504-4

Worklist Smp#: 24

Client ID: KTSG-COMP-12

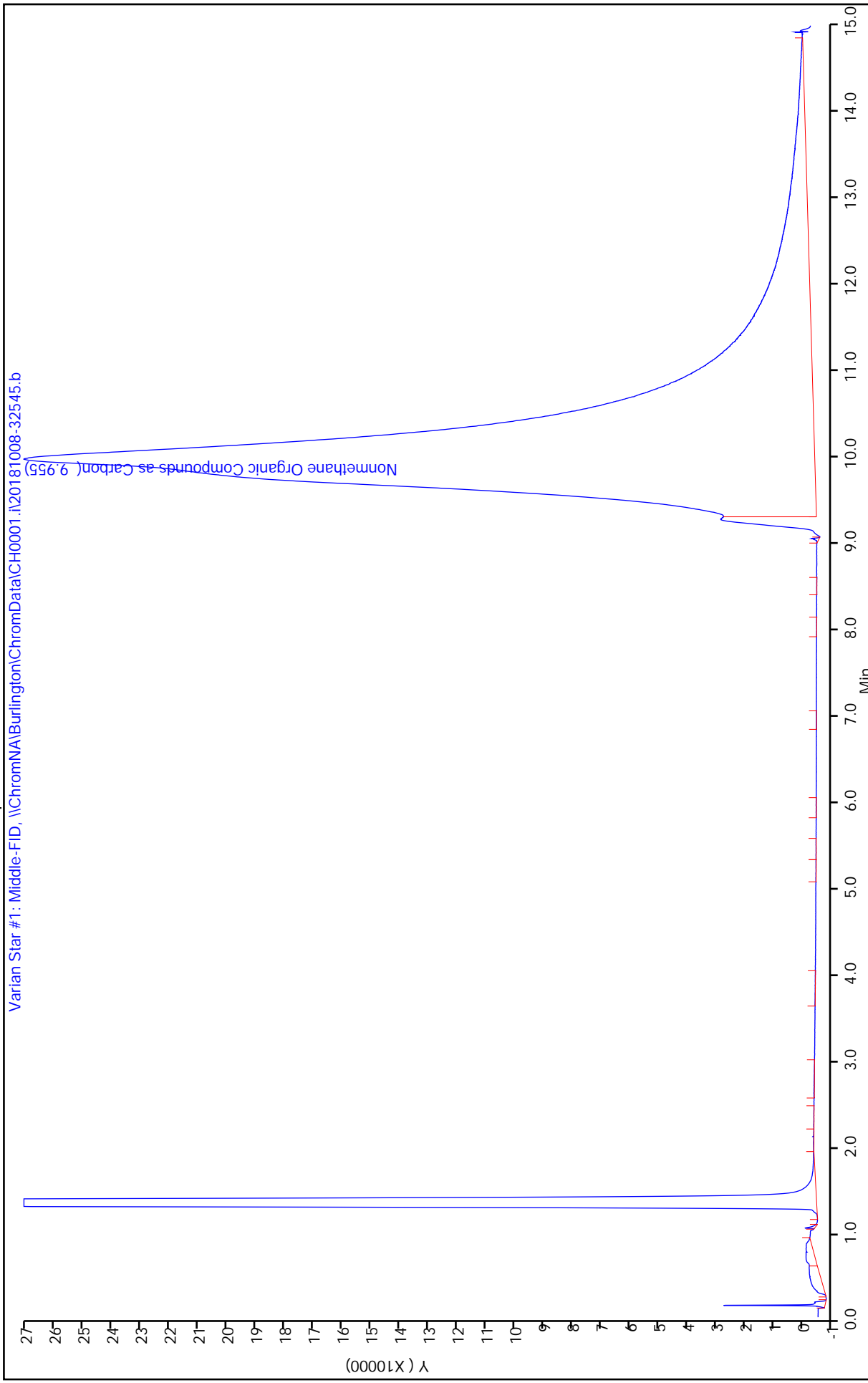
Purge Vol: 2.000 mL

Dil. Factor: 4.9700

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

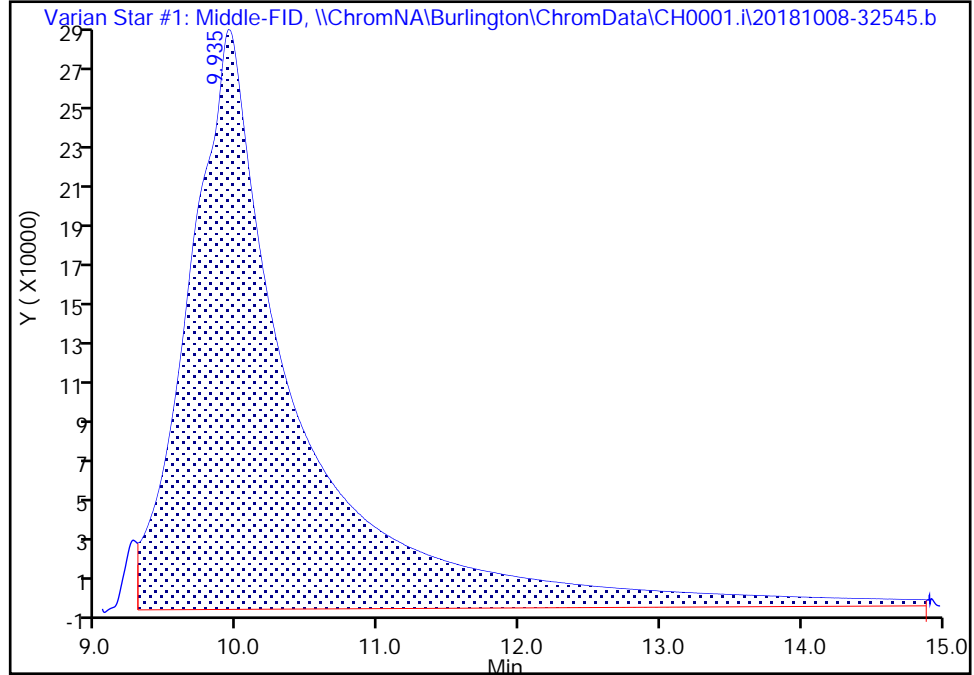
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4f.d  
Injection Date: 09-Oct-2018 00:11:05 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-4 Lab Sample ID: 200-45504-4  
Client ID: KTSG-COMP-12  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 22  
Purge Vol: 2.000 mL Dil. Factor: 4.9700  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

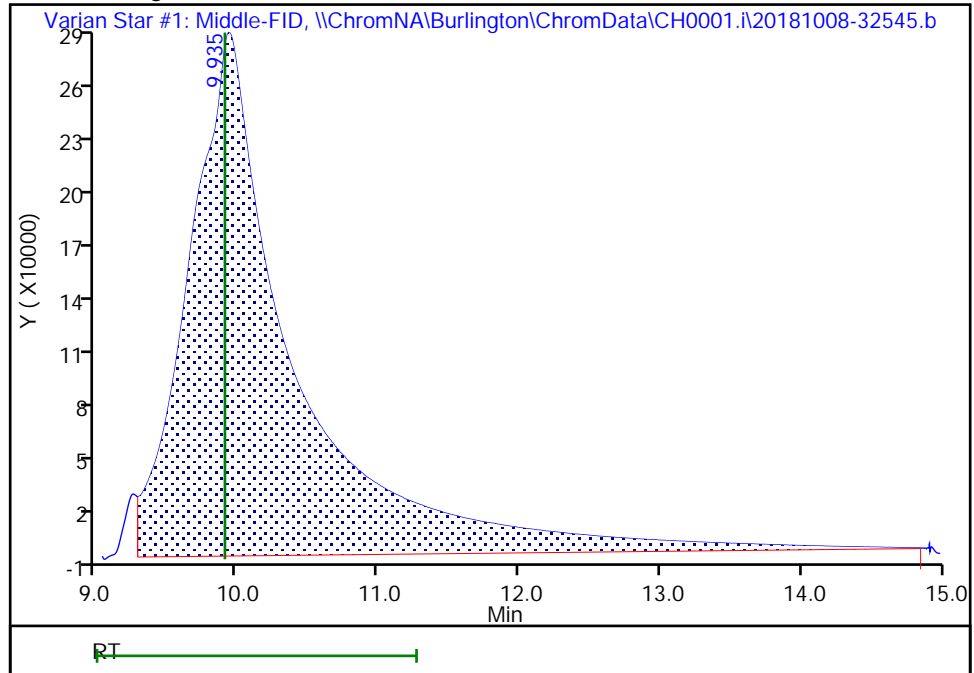
RT: 9.94  
Area: 15165760  
Amount: 842.7774  
Amount Units: ppm-C

Processing Integration Results



RT: 9.94  
Area: 14735930  
Amount: 818.8913  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

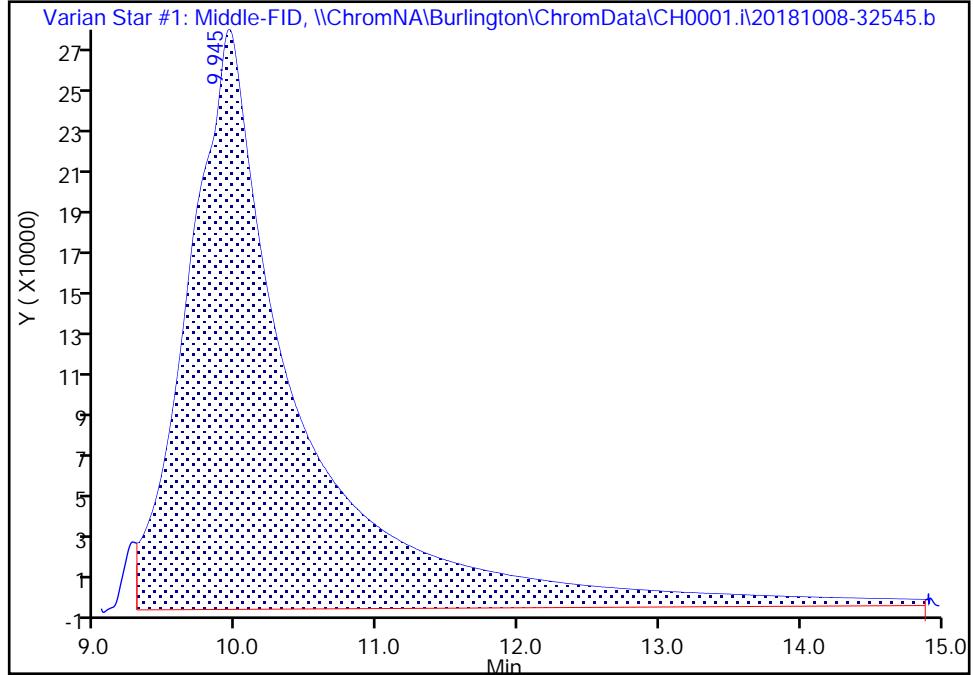
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4g.d  
Injection Date: 09-Oct-2018 00:28:03 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-4 Lab Sample ID: 200-45504-4  
Client ID: KTSG-COMP-12  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 23  
Purge Vol: 2.000 mL Dil. Factor: 4.9700  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

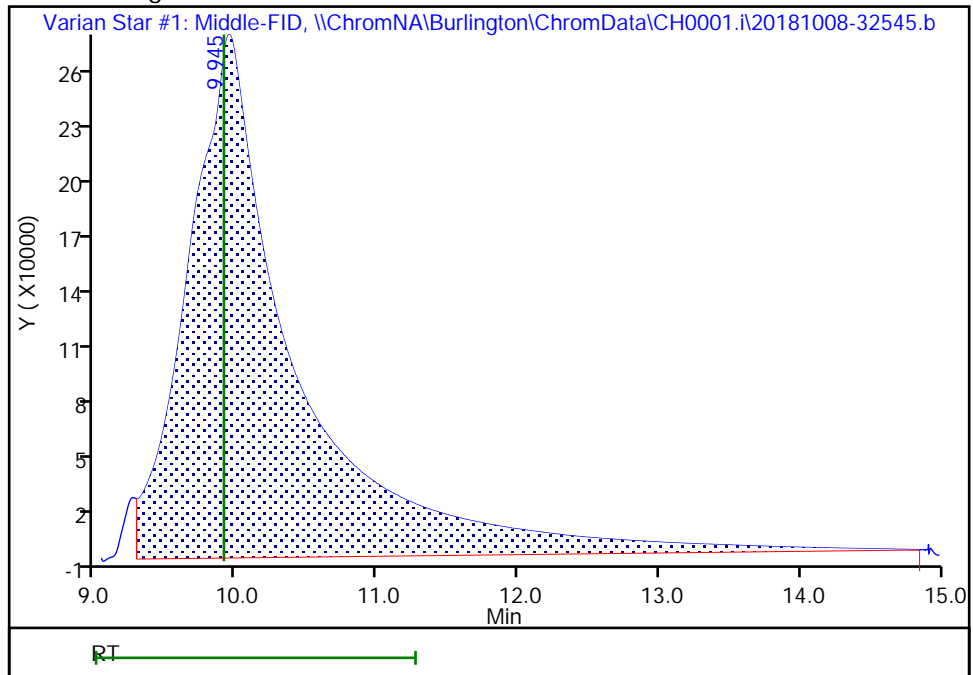
RT: 9.95  
Area: 15073808  
Amount: 837.6675  
Amount Units: ppm-C

Processing Integration Results



RT: 9.95  
Area: 14627100  
Amount: 812.8435  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:38:59  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
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TestAmerica Burlington

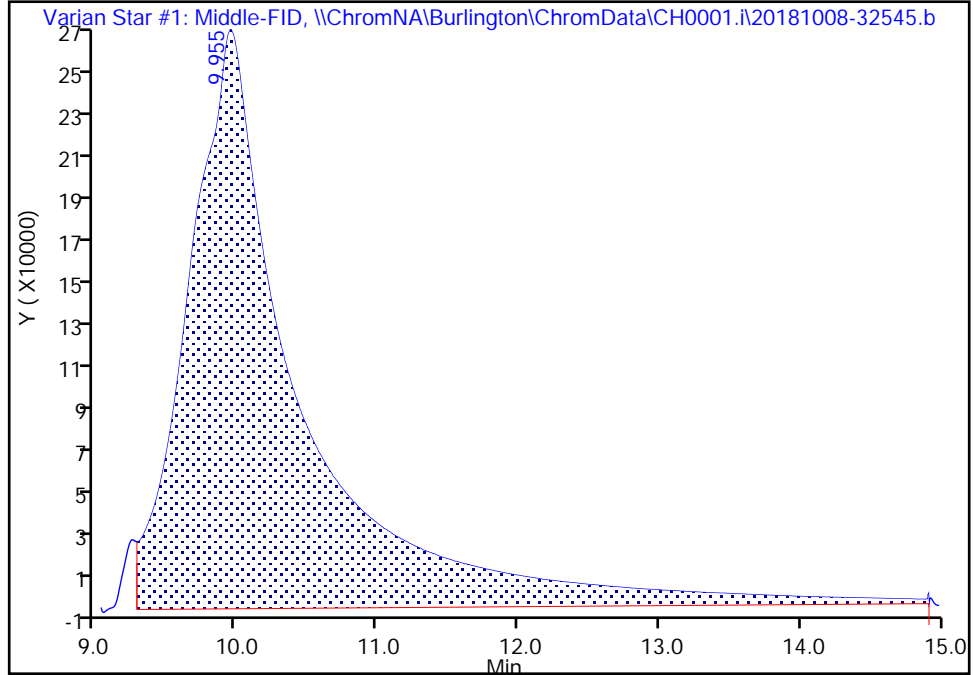
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-4h.d  
Injection Date: 09-Oct-2018 00:45:10 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-4 Lab Sample ID: 200-45504-4  
Client ID: KTSG-COMP-12  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 24  
Purge Vol: 2.000 mL Dil. Factor: 4.9700  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

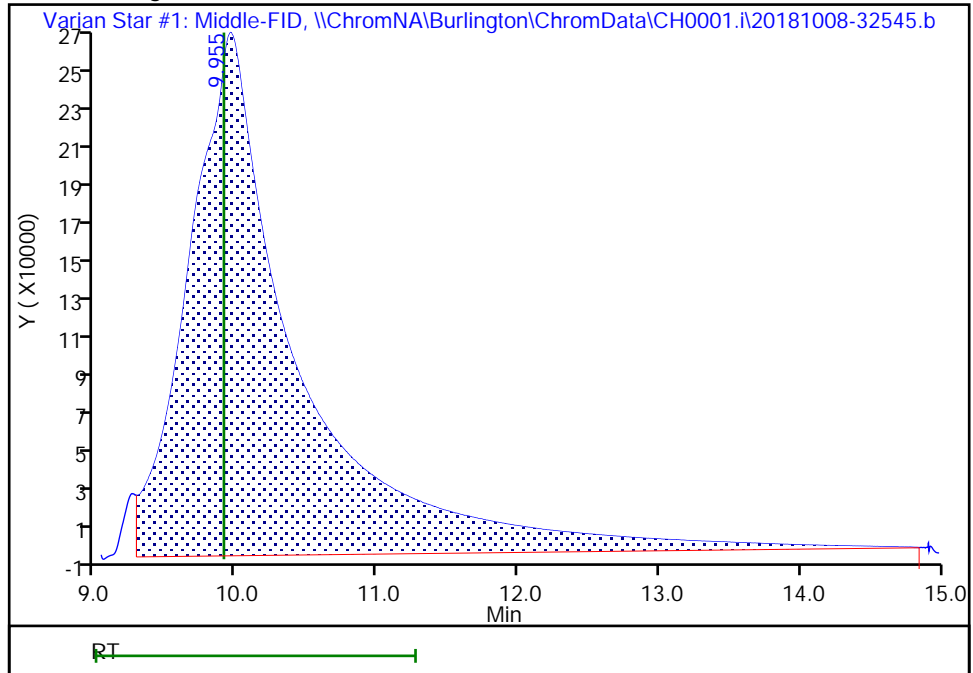
RT: 9.96  
Area: 14753311  
Amount: 819.8572  
Amount Units: ppm-C

Processing Integration Results



RT: 9.96  
Area: 14461463  
Amount: 803.6389  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:39:17  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-13</u>	Lab Sample ID: <u>200-45504-5</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-5f.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/26/2018 15:09</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 01:19</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5.11</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135246</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	3500		31	31
STL02483	NMOC as Carbon - N2 Corrected	3700		31	31
STL02482	NMOC as Carbon - O2 Corrected	3700		31	31



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5f.d  
 Lims ID: 200-45504-A-5  
 Client ID: KTSG-COMP-13  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 01:19:07 ALS Bottle#: 0 Worklist Smp#: 25  
 Purge Vol: 2.000 mL Dil. Factor: 5.1100  
 Sample Info: 200-45504-A-5f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:39:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.930	9.908	0.022	12577124	698.9	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5g.d  
 Lims ID: 200-45504-A-5  
 Client ID: KTSG-COMP-13  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 01:36:25 ALS Bottle#: 0 Worklist Smp#: 26  
 Purge Vol: 2.000 mL Dil. Factor: 5.1100  
 Sample Info: 200-45504-A-5g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:40:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.938	9.908	0.030	12281981	682.5	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5h.d  
 Lims ID: 200-45504-A-5  
 Client ID: KTSG-COMP-13  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 01:53:22 ALS Bottle#: 0 Worklist Smp#: 27  
 Purge Vol: 2.000 mL Dil. Factor: 5.1100  
 Sample Info: 200-45504-A-5h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:40:28

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.933	9.908	0.025	12517545	695.6	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-5f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-5g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-5h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12577124	12281981	12517545	12458883.33	1.42

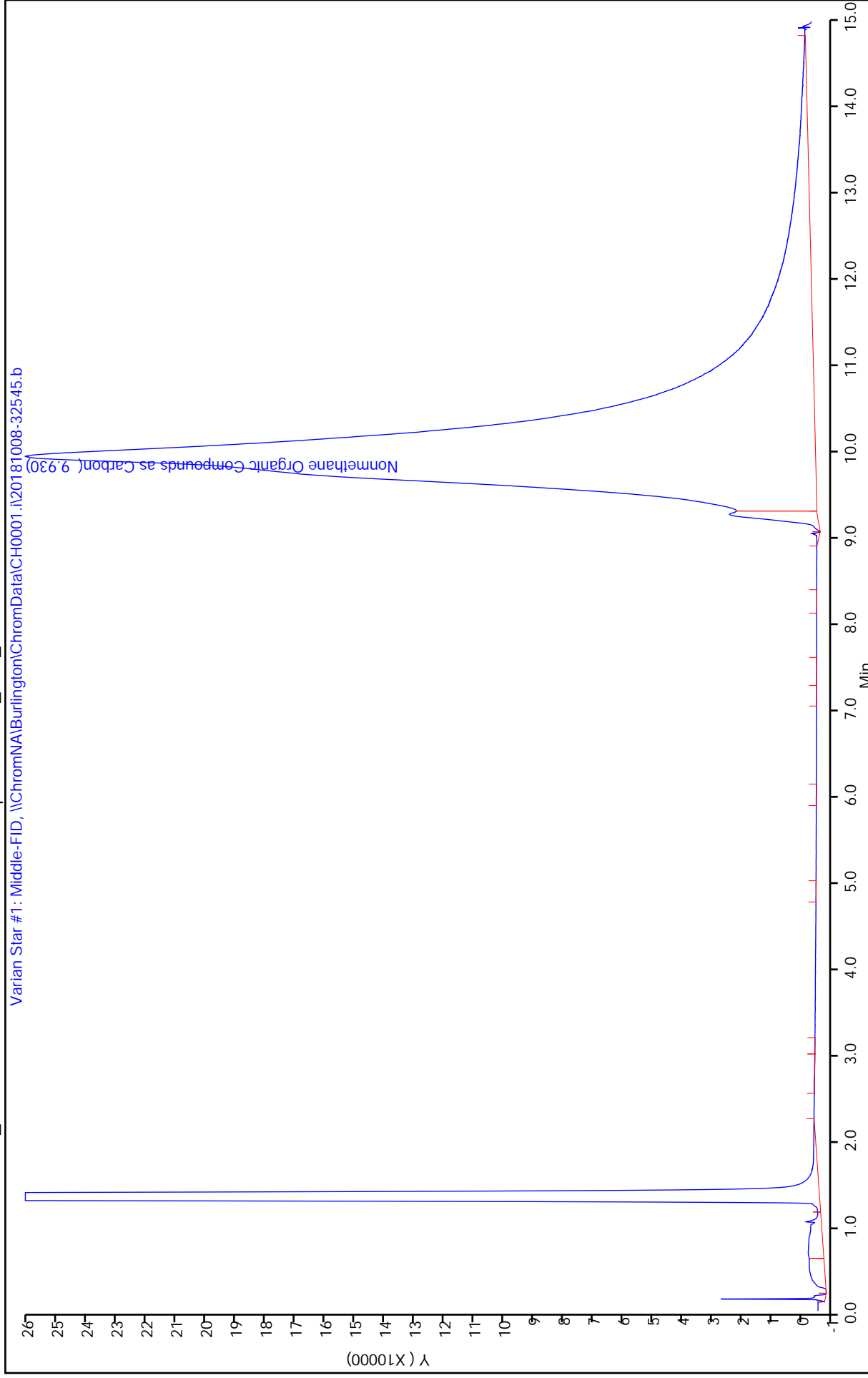
Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	698.92	682.52	695.61	692.35	1.42

Report Date: 20-Nov-2018 14:47:32

Chrom Revision: 2.3 19-Nov-2018 09:14:08

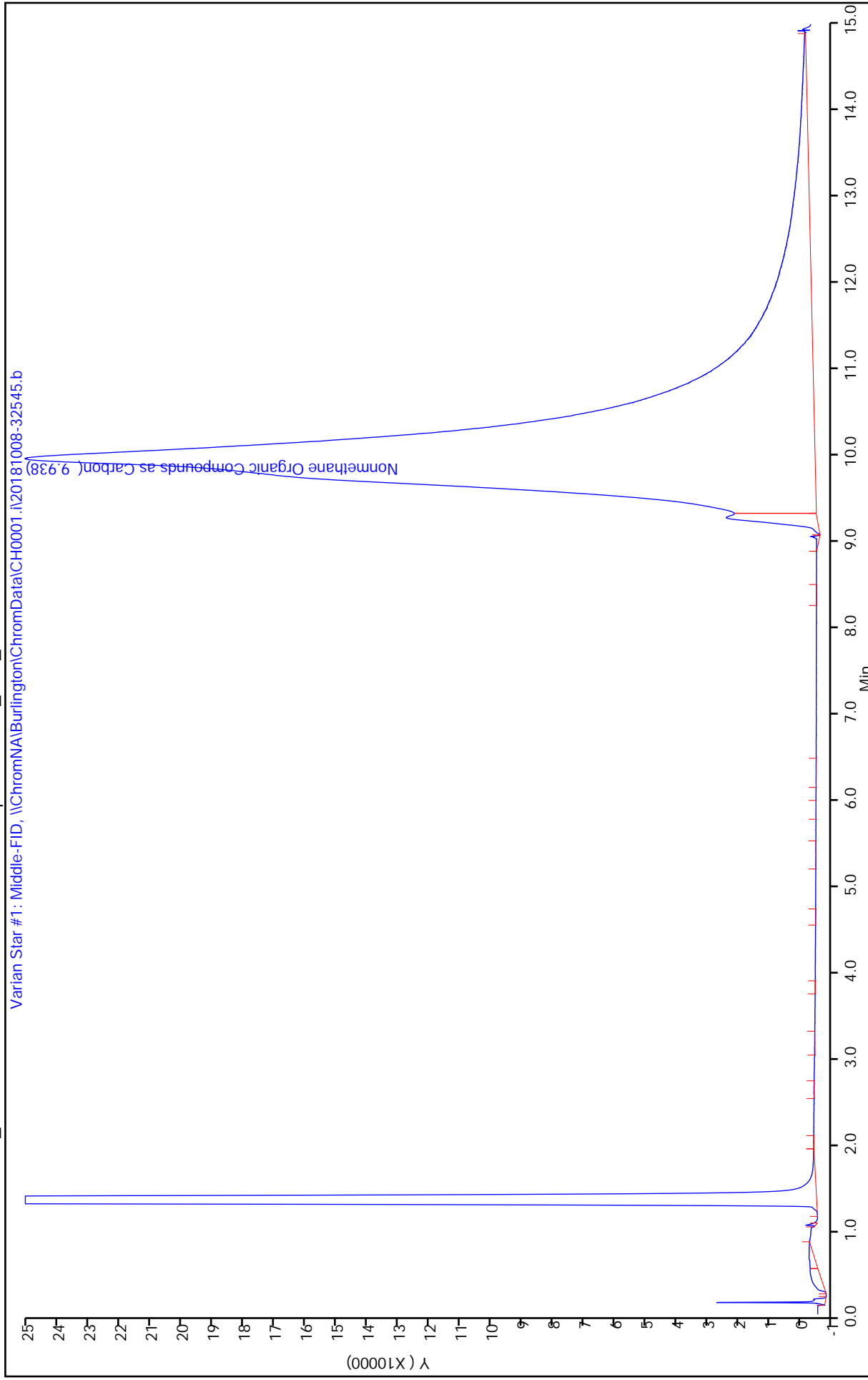
TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5f.d  
Injection Date: 09-Oct-2018 01:19:07 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5 Worklist Smp#: 25  
Client ID: KTSG-COMP-13 Dil. Factor: 5.1100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



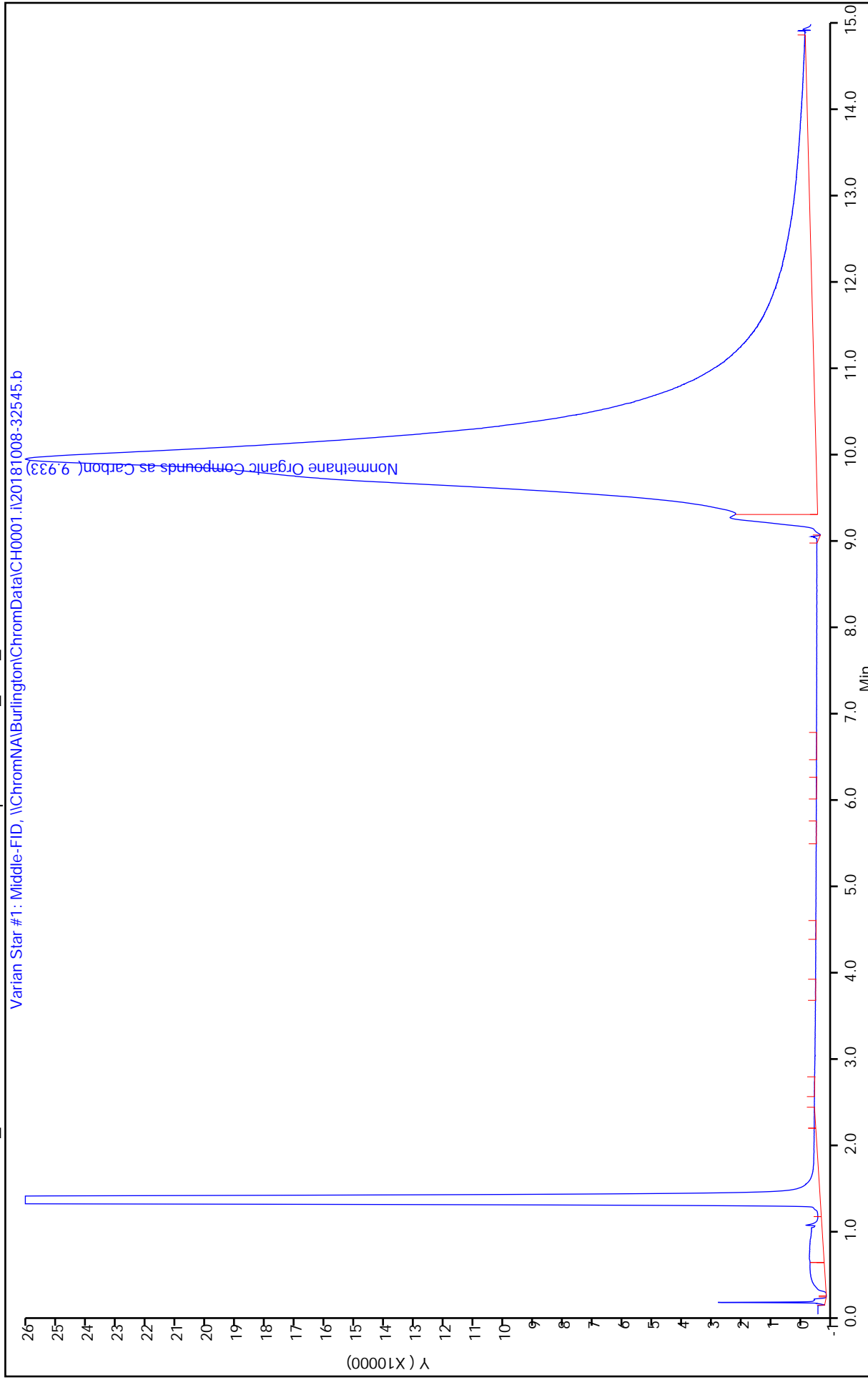
TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5g.d  
Injection Date: 09-Oct-2018 01:36:25 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5 Worklist Smp#: 26  
Client ID: KTSG-COMP-13 Dil. Factor: 5.1100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5h.d  
Injection Date: 09-Oct-2018 01:53:22 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5 Worklist Smp#: 27  
Client ID: KTSG-COMP-13 Dil. Factor: 5.1100 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

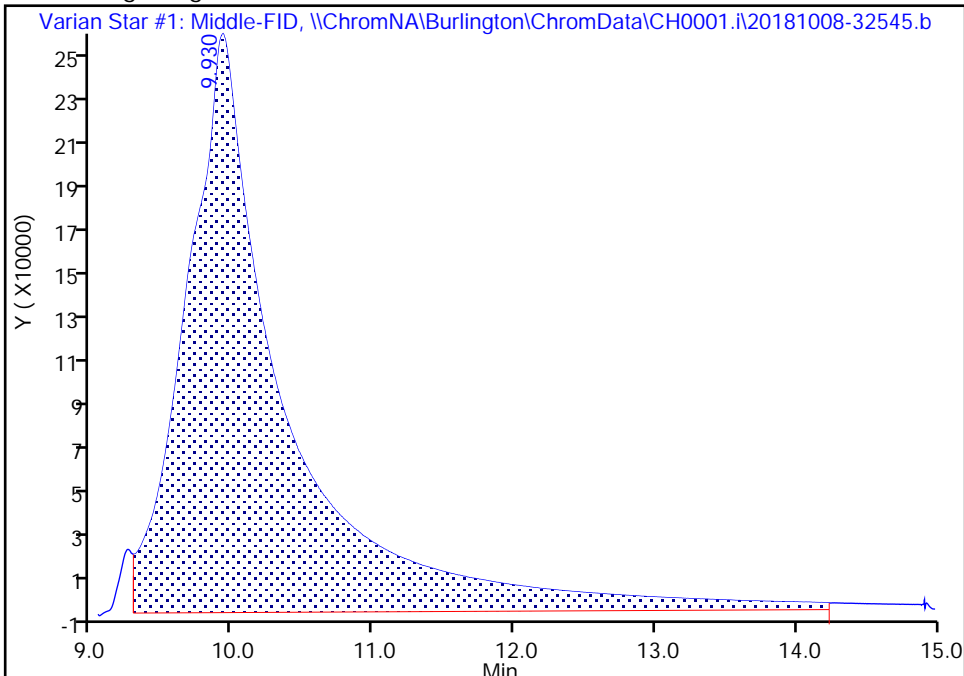
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5f.d  
Injection Date: 09-Oct-2018 01:19:07 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5  
Client ID: KTSG-COMP-13  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 25  
Purge Vol: 2.000 mL Dil. Factor: 5.1100  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

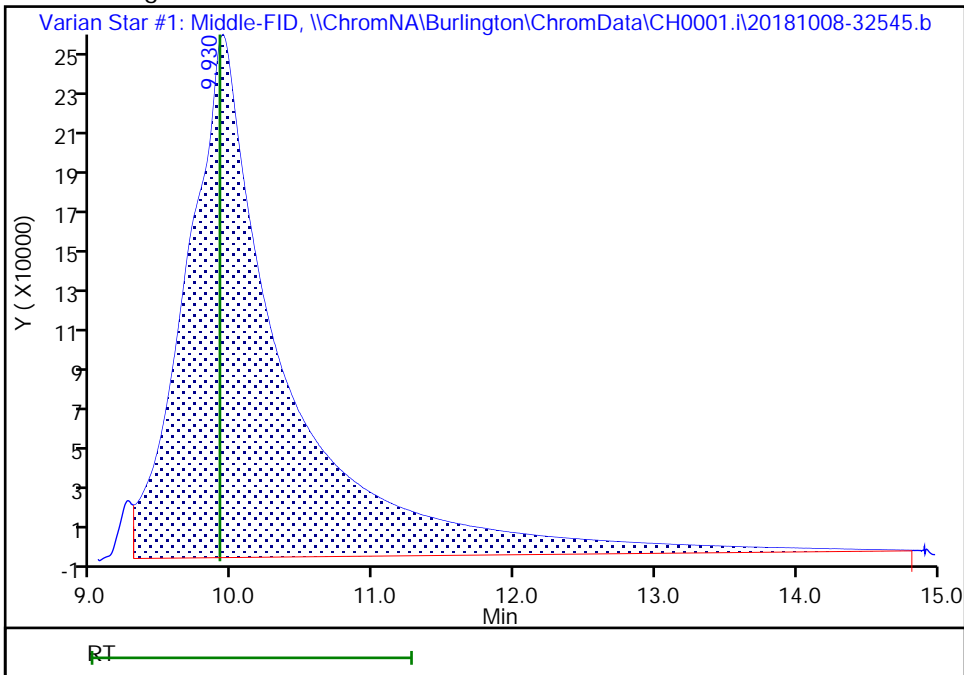
RT: 9.93  
Area: 12790084  
Amount: 710.7586  
Amount Units: ppm-C

Processing Integration Results



RT: 9.93  
Area: 12577124  
Amount: 698.9242  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:39:45  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
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TestAmerica Burlington

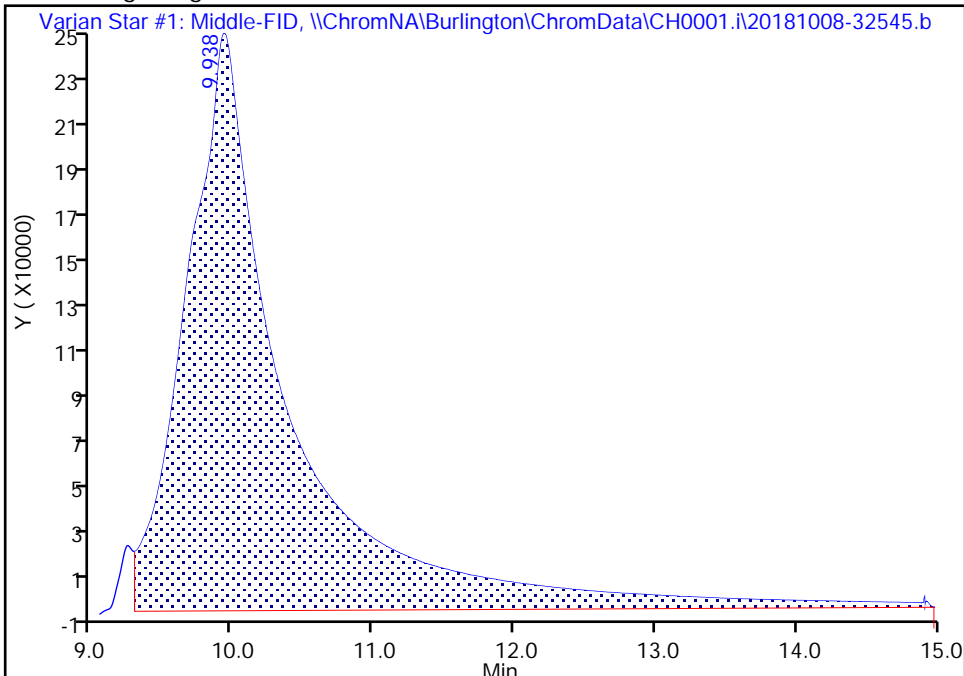
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5g.d  
Injection Date: 09-Oct-2018 01:36:25 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5  
Client ID: KTSG-COMP-13  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 26  
Purge Vol: 2.000 mL Dil. Factor: 5.1100  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

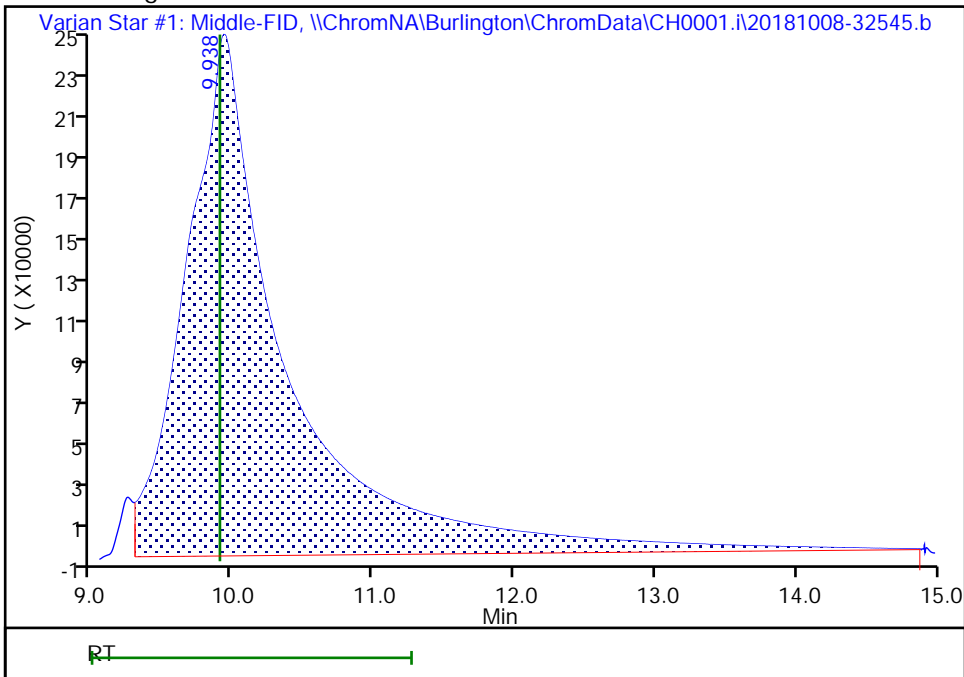
RT: 9.94  
Area: 12558164  
Amount: 697.8705  
Amount Units: ppm-C

Processing Integration Results



RT: 9.94  
Area: 12281981  
Amount: 682.5228  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

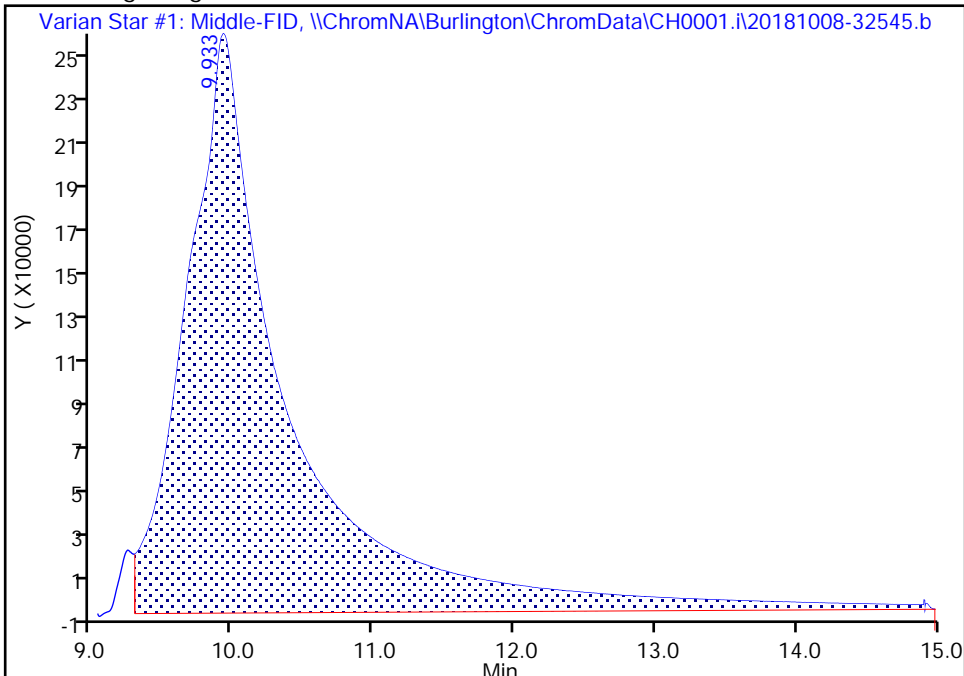
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-5h.d  
Injection Date: 09-Oct-2018 01:53:22 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-5 Lab Sample ID: 200-45504-5  
Client ID: KTSG-COMP-13  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 27  
Purge Vol: 2.000 mL Dil. Factor: 5.1100  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

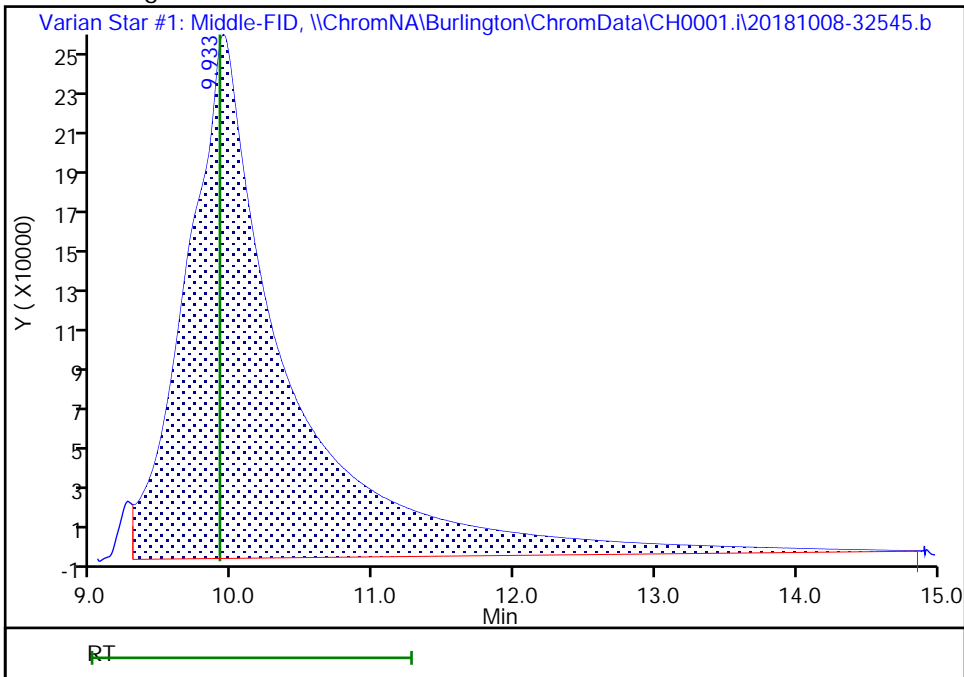
RT: 9.93  
Area: 12751857  
Amount: 708.6343  
Amount Units: ppm-C

Processing Integration Results



RT: 9.93  
Area: 12517545  
Amount: 695.6133  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:40:24  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing  
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FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: KTSG-COMP-14 Lab Sample ID: 200-45504-6  
 Matrix: Air Lab File ID: 200-45504-a-6f.d-avg  
 Analysis Method: EPA 25C Date Collected: 09/27/2018 09:12  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/09/2018 02:25  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5.14  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135246 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	4300		31	31
STL02483	NMOC as Carbon - N2 Corrected	4900		31	31
STL02482	NMOC as Carbon - O2 Corrected	4900		31	31

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6f.d  
 Lims ID: 200-45504-A-6  
 Client ID: KTSG-COMP-14  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 02:25:29 ALS Bottle#: 0 Worklist Smp#: 28  
 Purge Vol: 2.000 mL Dil. Factor: 5.1400  
 Sample Info: 200-45504-A-6f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:41:05

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.858	9.908	-0.050	14511927	806.4	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6g.d  
 Lims ID: 200-45504-A-6  
 Client ID: KTSG-COMP-14  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 02:41:34 ALS Bottle#: 0 Worklist Smp#: 29  
 Purge Vol: 2.000 mL Dil. Factor: 5.1400  
 Sample Info: 200-45504-A-6g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:41:22

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.858	9.908	-0.050	15030776	835.3	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6h.d  
 Lims ID: 200-45504-A-6  
 Client ID: KTSG-COMP-14  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 02:57:38 ALS Bottle#: 0 Worklist Smp#: 30  
 Purge Vol: 2.000 mL Dil. Factor: 5.1400  
 Sample Info: 200-45504-A-6h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: CTX1018

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:42:02

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.870	9.908	-0.038	15273824	848.8	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-6f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-6g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-6h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

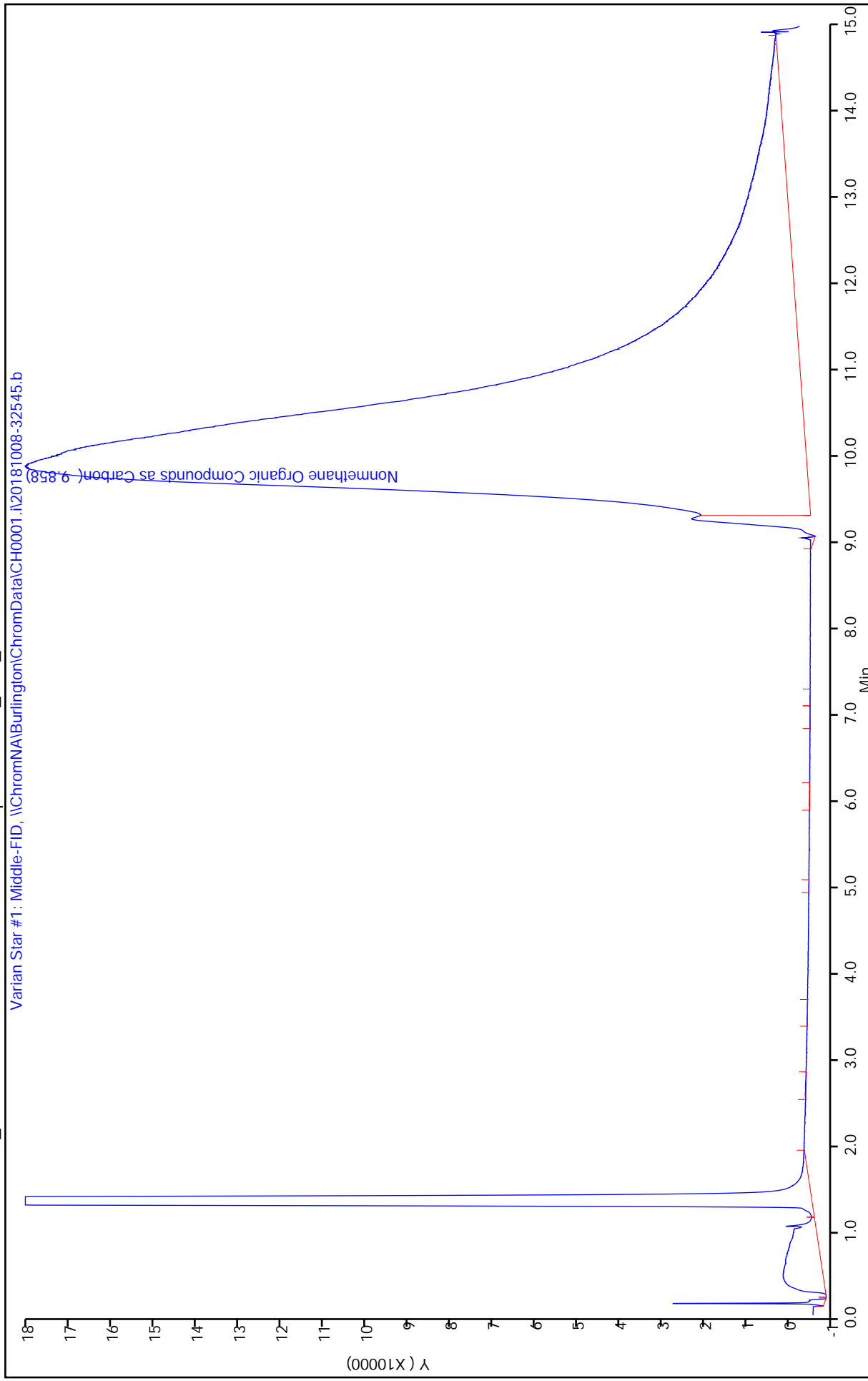
Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	14511927	15030776	15273824	14938842.33	2.86

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	806.44	835.28	848.78	830.17	2.86

TestAmerica Burlington

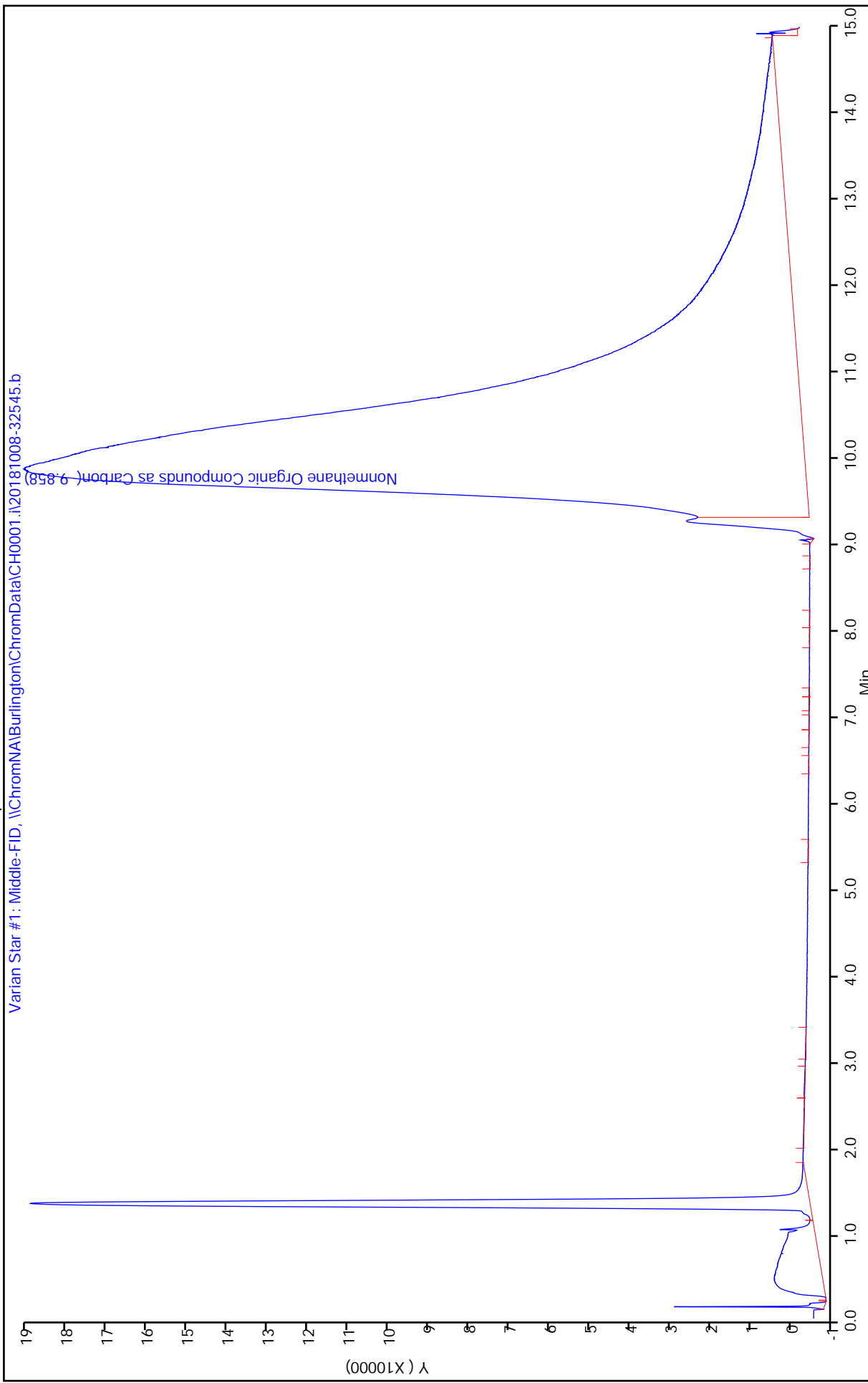
Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6f.d  
Injection Date: 09-Oct-2018 02:25:29 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6 Worklist Smp#: 28  
Client ID: KTSG-COMP-14 Dil. Factor: 5.1400 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i





TestAmerica Burlington

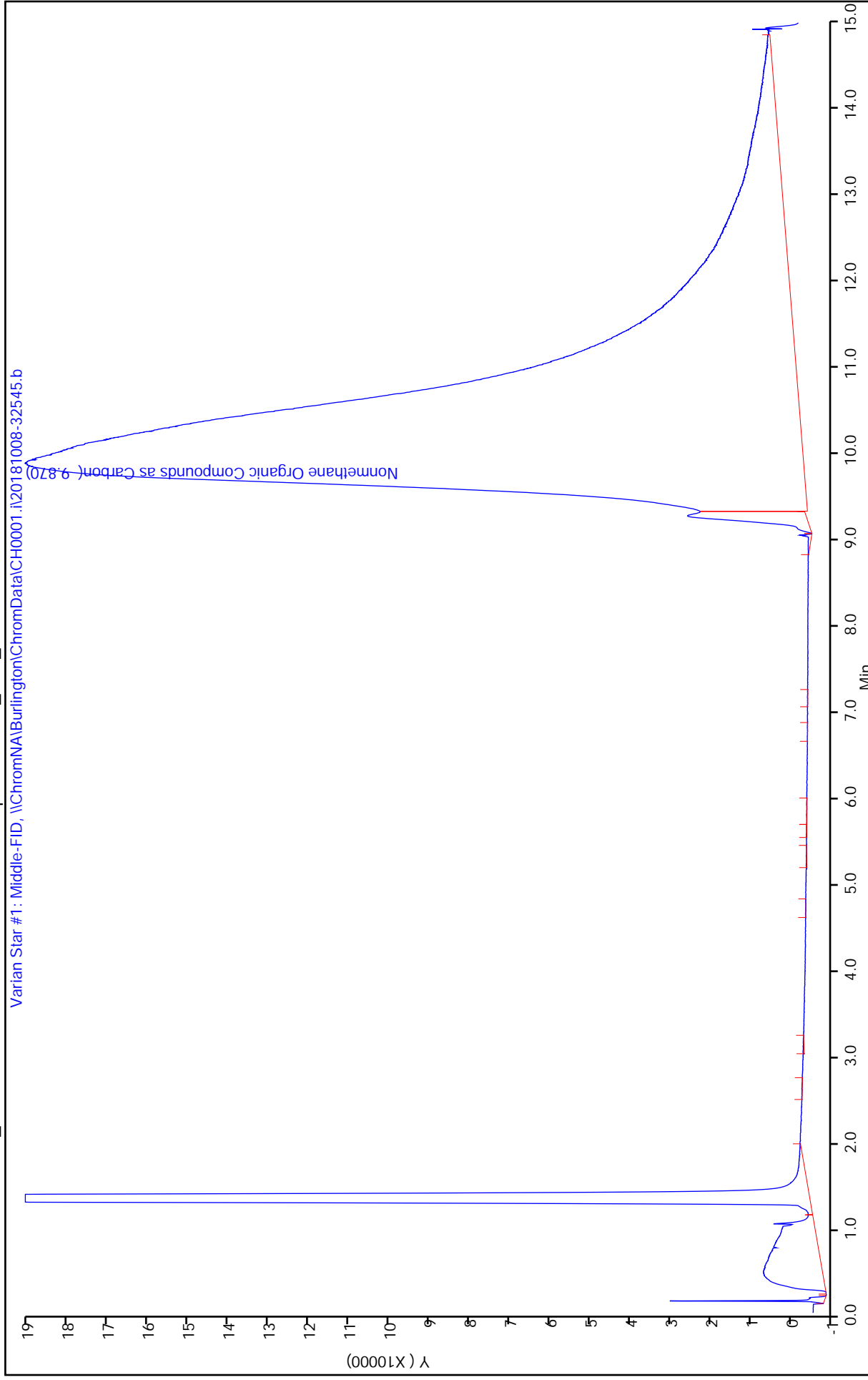
Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6g.d  
Injection Date: 09-Oct-2018 02:41:34 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6 Worklist Smp#: 29  
Client ID: KTSG-COMP-14 Dil. Factor: 5.1400 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6h.d  
Injection Date: 09-Oct-2018 02:57:38  
Instrument ID: CH0001.i  
Lims ID: 200-45504-A-6  
Lab Sample ID: 200-45504-6  
Client ID: KTSG-COMP-14  
Purge Vol: 2.000 mL  
Dil. Factor: 5.1400  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

Operator ID: WRD  
Worklist Smp#: 30



TestAmerica Burlington

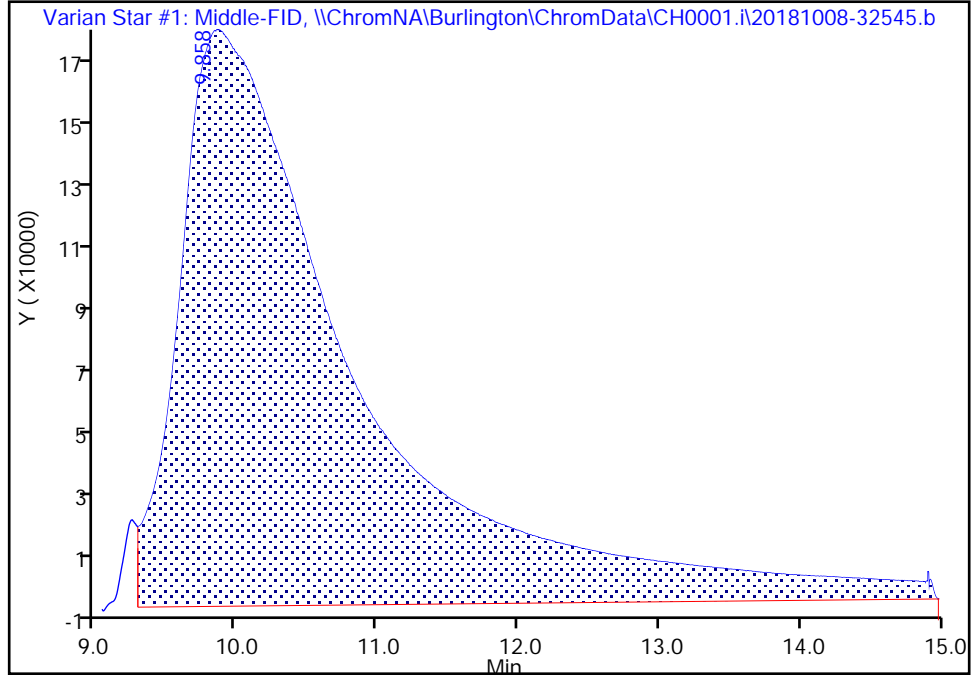
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6f.d  
Injection Date: 09-Oct-2018 02:25:29 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6  
Client ID: KTSG-COMP-14  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 28  
Purge Vol: 2.000 mL Dil. Factor: 5.1400  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

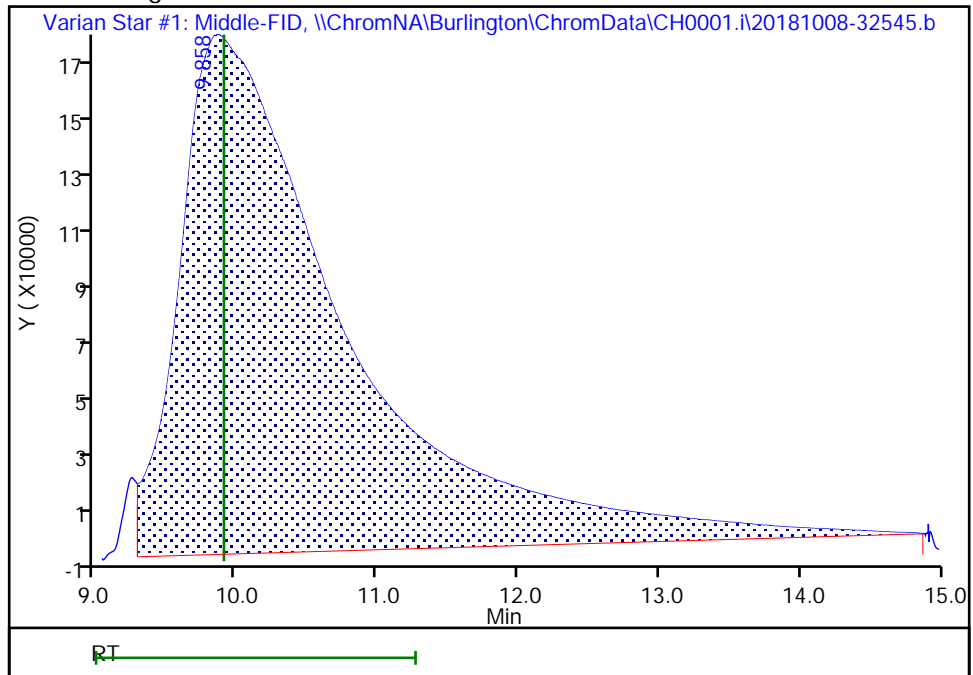
RT: 9.86  
Area: 15396590  
Amount: 855.6049  
Amount Units: ppm-C

Processing Integration Results



RT: 9.86  
Area: 14511927  
Amount: 806.4432  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:41:02  
Audit Action: Manually Integrated

TestAmerica Burlington

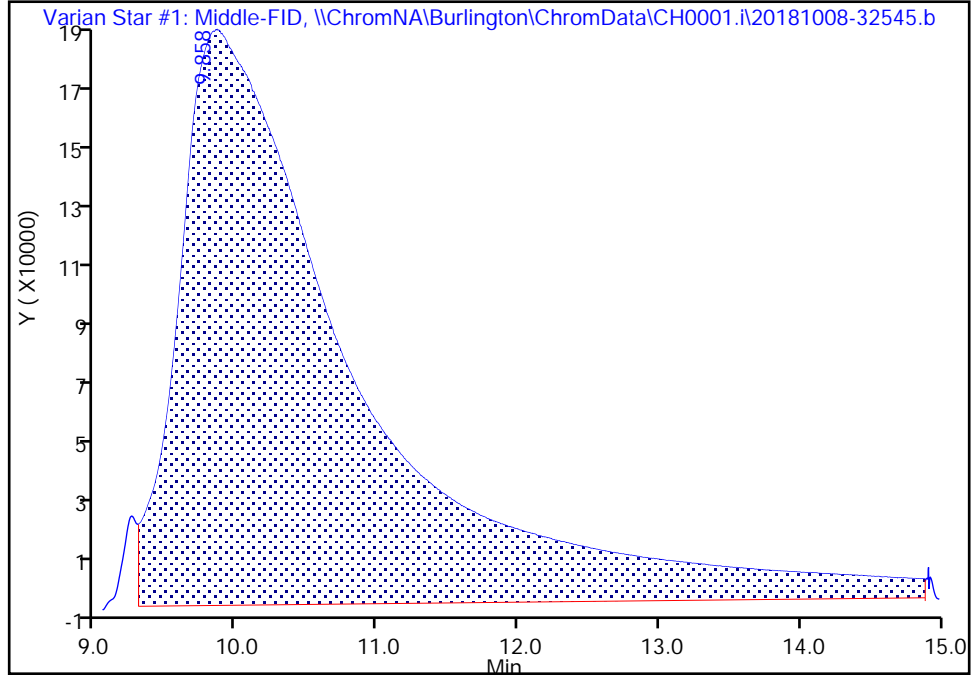
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6g.d  
Injection Date: 09-Oct-2018 02:41:34 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6  
Client ID: KTSG-COMP-14  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 29  
Purge Vol: 2.000 mL Dil. Factor: 5.1400  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

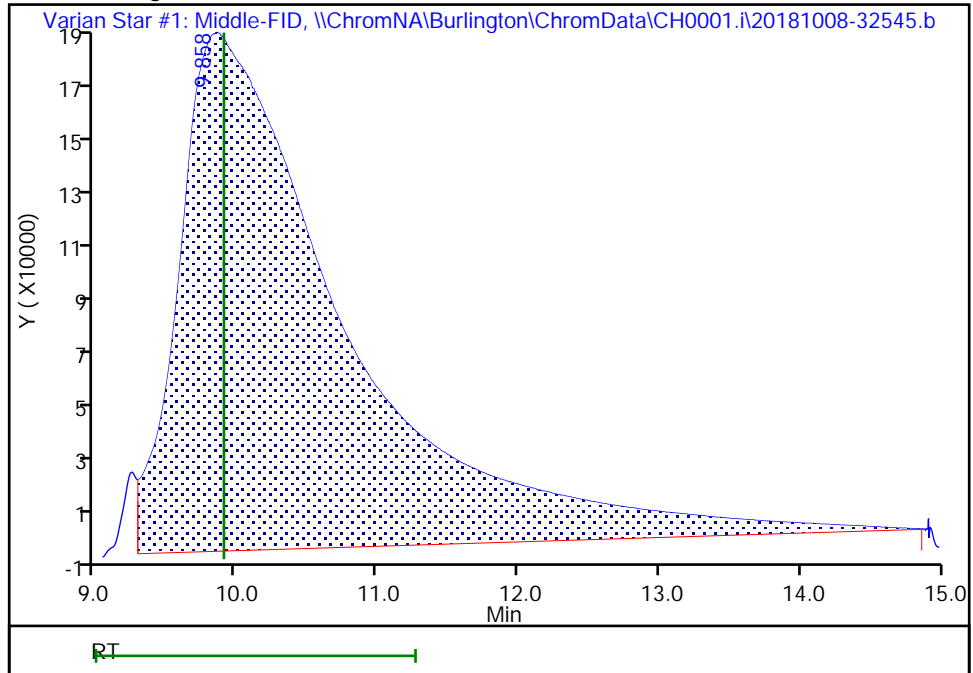
RT: 9.86  
Area: 16021541  
Amount: 890.3341  
Amount Units: ppm-C

Processing Integration Results



RT: 9.86  
Area: 15030776  
Amount: 835.2762  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:41:20  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

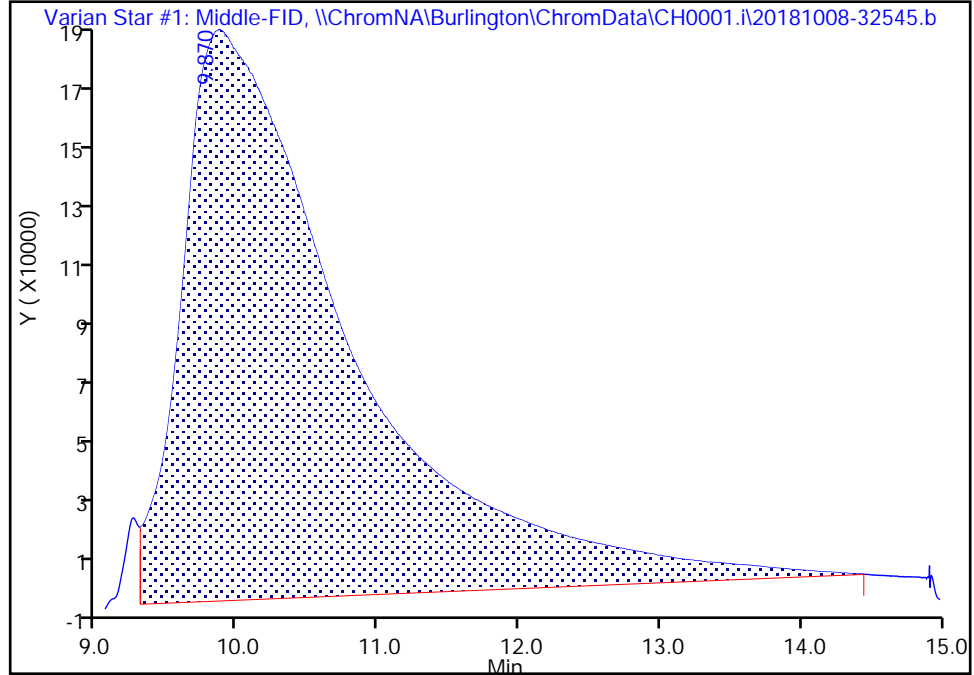
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-6h.d  
Injection Date: 09-Oct-2018 02:57:38 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-6 Lab Sample ID: 200-45504-6  
Client ID: KTSG-COMP-14  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 30  
Purge Vol: 2.000 mL Dil. Factor: 5.1400  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

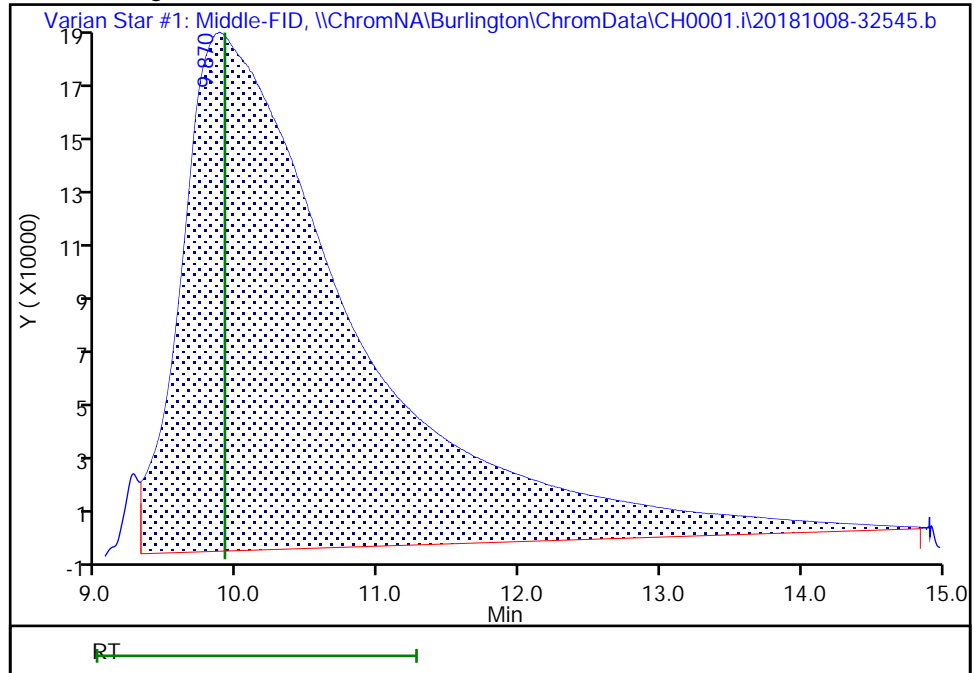
RT: 9.87  
Area: 14856979  
Amount: 825.6181  
Amount Units: ppm-C

Processing Integration Results



RT: 9.87  
Area: 15273824  
Amount: 848.7827  
Amount Units: ppm-C

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-15</u>	Lab Sample ID: <u>200-45504-7</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-7f.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/27/2018 10:36</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 03:29</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.69</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135246</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	5500		28	28
STL02483	NMOC as Carbon - N2 Corrected	5900		28	28
STL02482	NMOC as Carbon - O2 Corrected	5800		28	28

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7f.d  
 Lims ID: 200-45504-A-7  
 Client ID: KTSG-COMP-15  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 03:29:42 ALS Bottle#: 0 Worklist Smp#: 31  
 Purge Vol: 2.000 mL Dil. Factor: 4.6900  
 Sample Info: 200-45504-A-7f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:42:33

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.988	9.908	0.080	20881811	1160.4	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7g.d  
 Lims ID: 200-45504-A-7  
 Client ID: KTSG-COMP-15  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 03:45:49 ALS Bottle#: 0 Worklist Smp#: 32  
 Purge Vol: 2.000 mL Dil. Factor: 4.6900  
 Sample Info: 200-45504-A-7g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:42:57

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.975	9.908	0.067	20892746	1161.0	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7h.d  
 Lims ID: 200-45504-A-7  
 Client ID: KTSG-COMP-15  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 04:01:51 ALS Bottle#: 0 Worklist Smp#: 33  
 Purge Vol: 2.000 mL Dil. Factor: 4.6900  
 Sample Info: 200-45504-A-7h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:43:16

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.968	9.908	0.060	21115286	1173.4	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-7f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-7g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-7h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	20881811	20892746	21115286	20963281	0.73

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	1160.42	1161.03	1173.4	1164.95	0.73

Report Date: 15-Oct-2018 13:55:58

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7f.d

Injection Date: 09-Oct-2018 03:29:42

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-7

Lab Sample ID: 200-45504-7

Worklist Smp#: 31

Client ID: KTSG-COMP-15

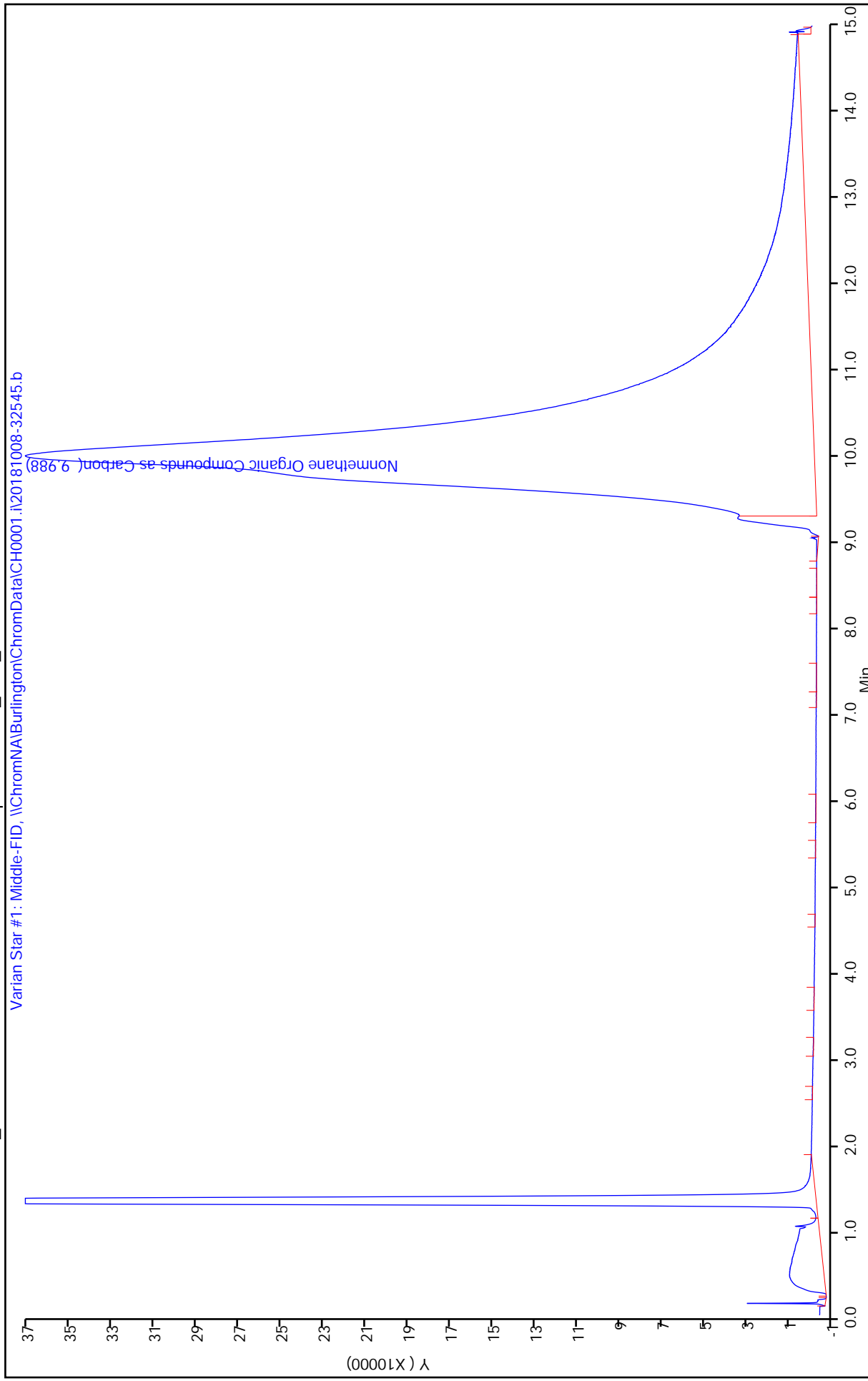
Purge Vol: 2.000 mL

ALS Bottle#: 0

Method: EPA25C\_0001.i

Dil. Factor: 4.6900

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:55:59

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7g.d

Injection Date: 09-Oct-2018 03:45:49

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-7

Lab Sample ID: 200-45504-7

Worklist Smp#: 32

Client ID: KTSG-COMP-15

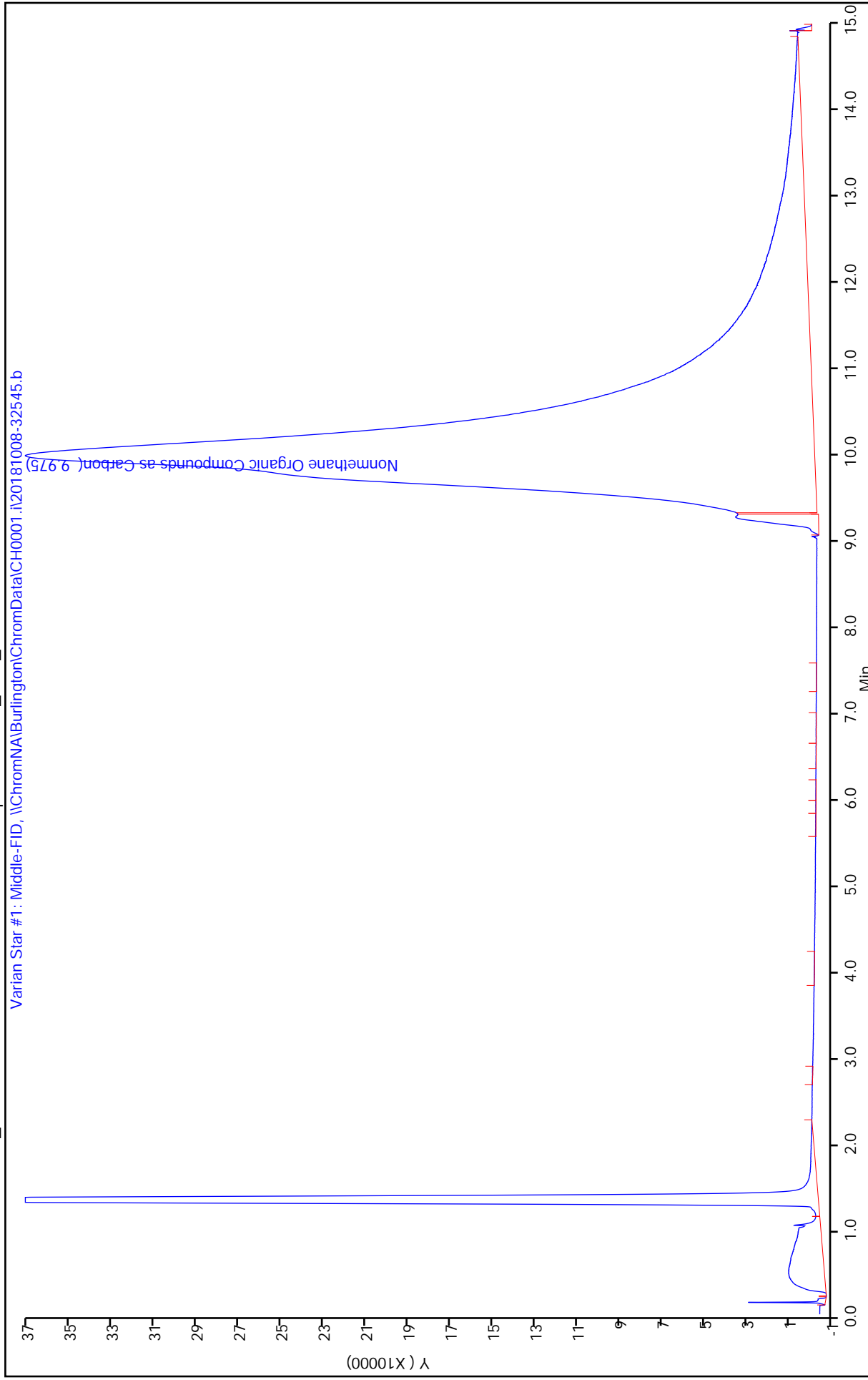
Purge Vol: 2.000 mL

Dil. Factor: 4.6900

ALS Bottle#: 0

Method: EPA25C\_0001.i

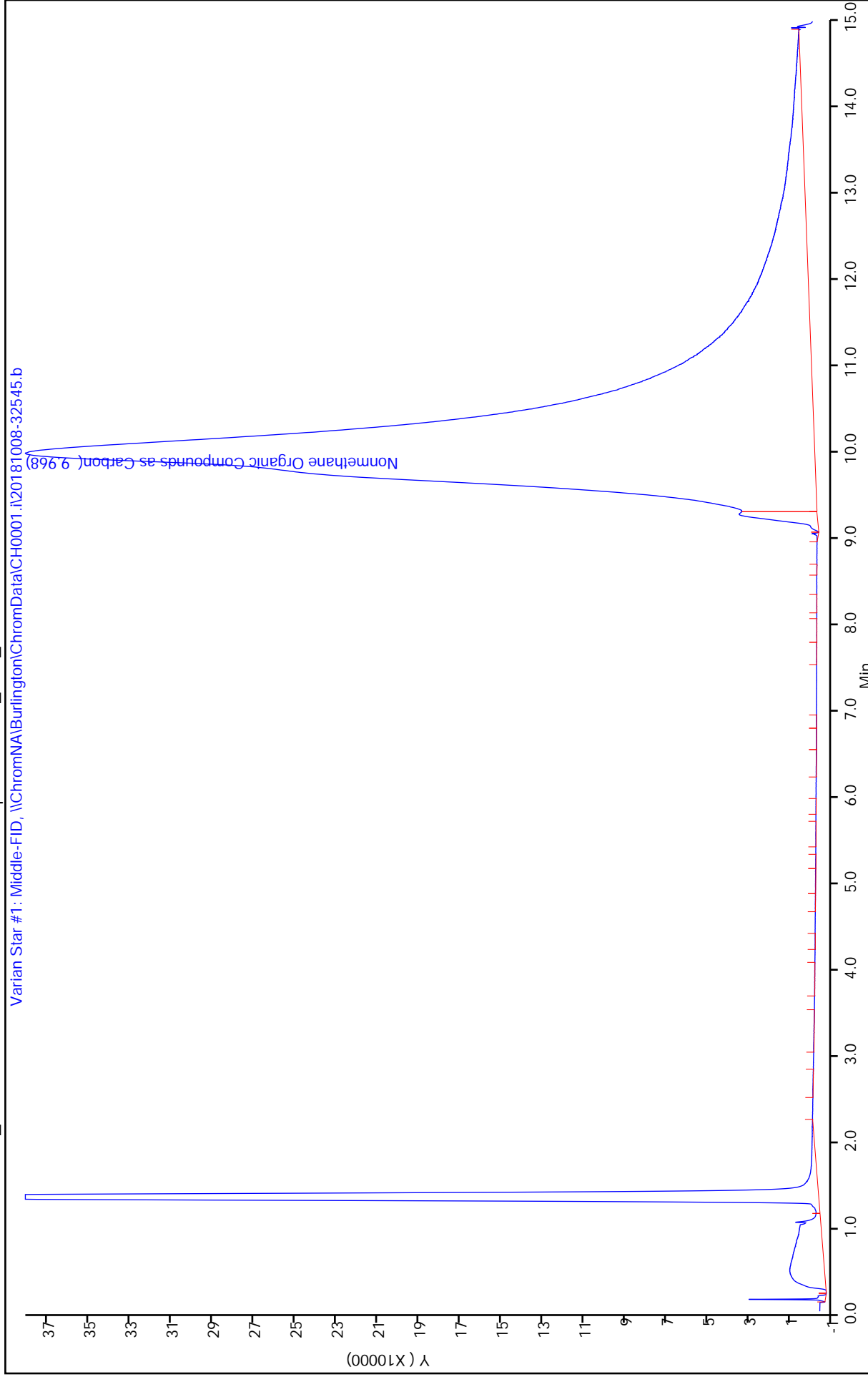
Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7h.d  
Injection Date: 09-Oct-2018 04:01:51  
Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7  
Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Purge Vol: 2.000 mL  
Dil. Factor: 4.6900  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

Operator ID: WRD  
Worklist Smp#: 33



TestAmerica Burlington

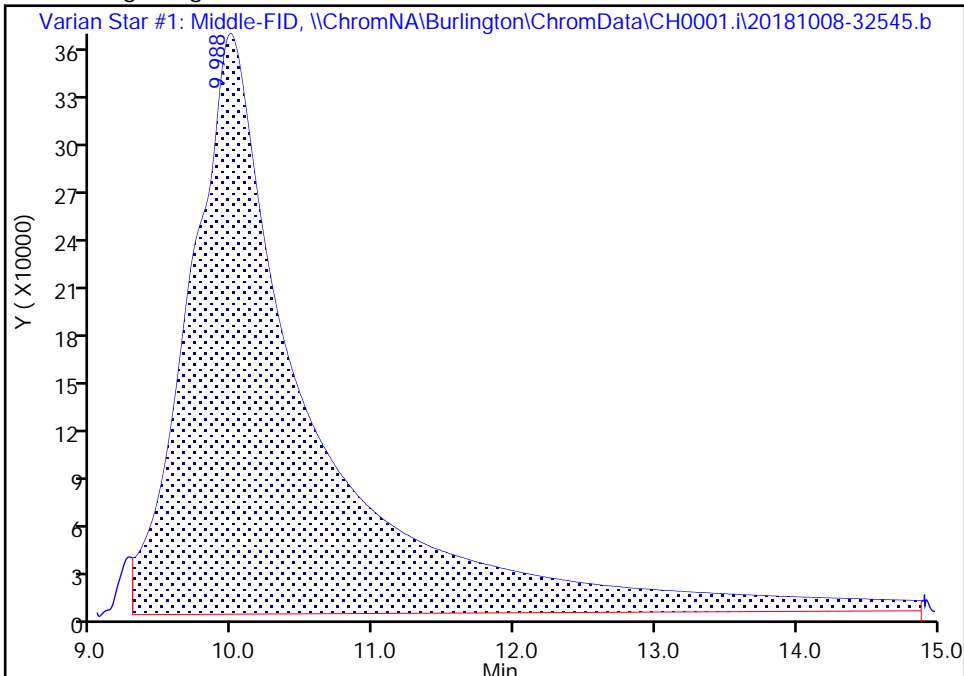
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7f.d  
Injection Date: 09-Oct-2018 03:29:42 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 31  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

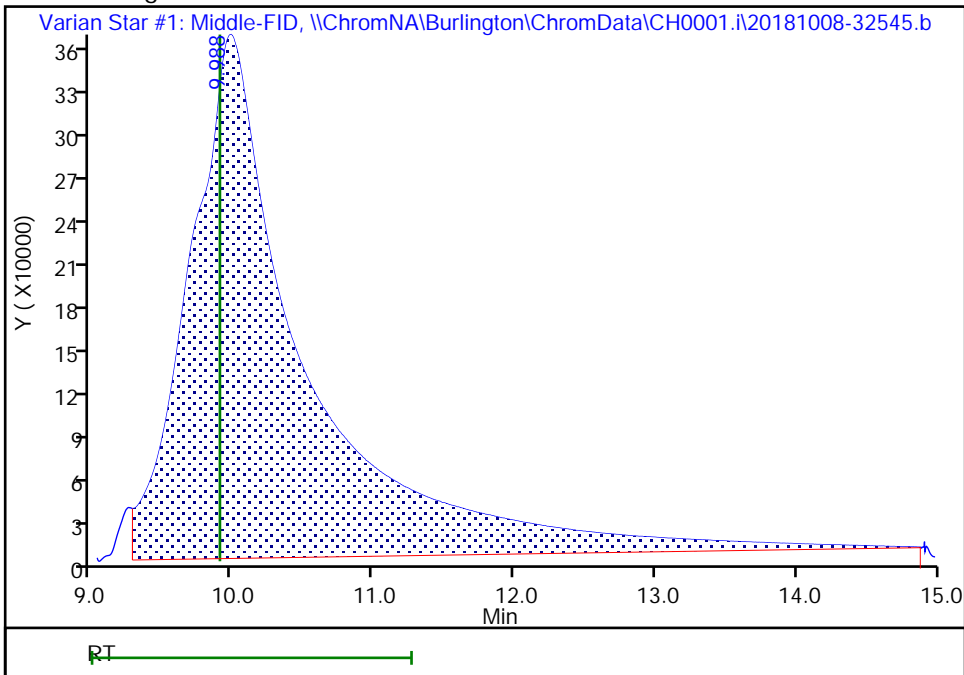
RT: 9.99  
Area: 21827246  
Amount: 1212.9633  
Amount Units: ppm-C

Processing Integration Results



RT: 9.99  
Area: 20881811  
Amount: 1160.4245  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

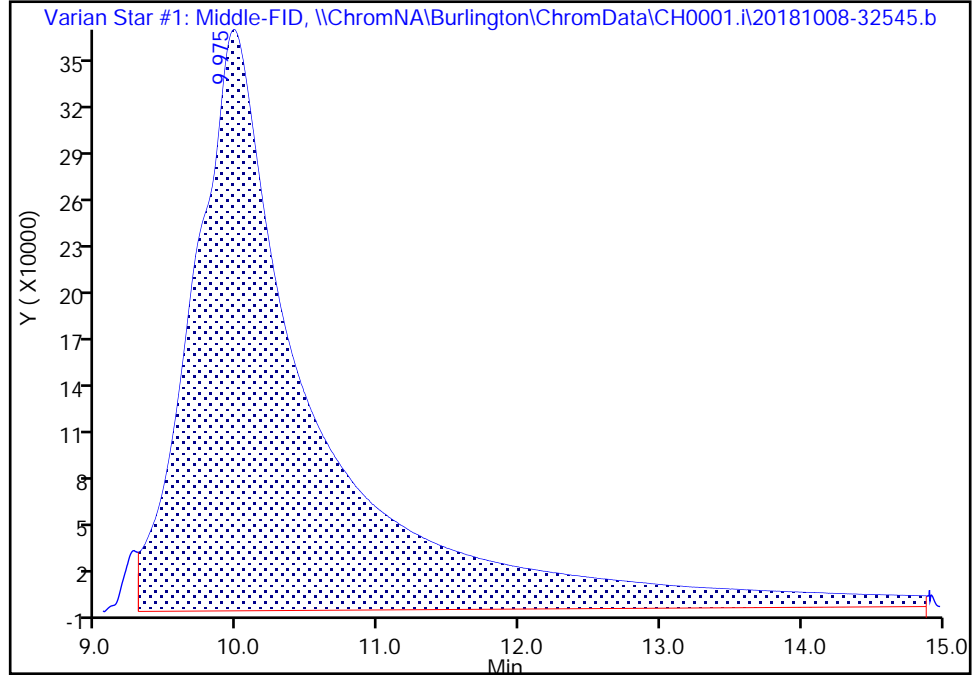
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7g.d  
Injection Date: 09-Oct-2018 03:45:49 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 32  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

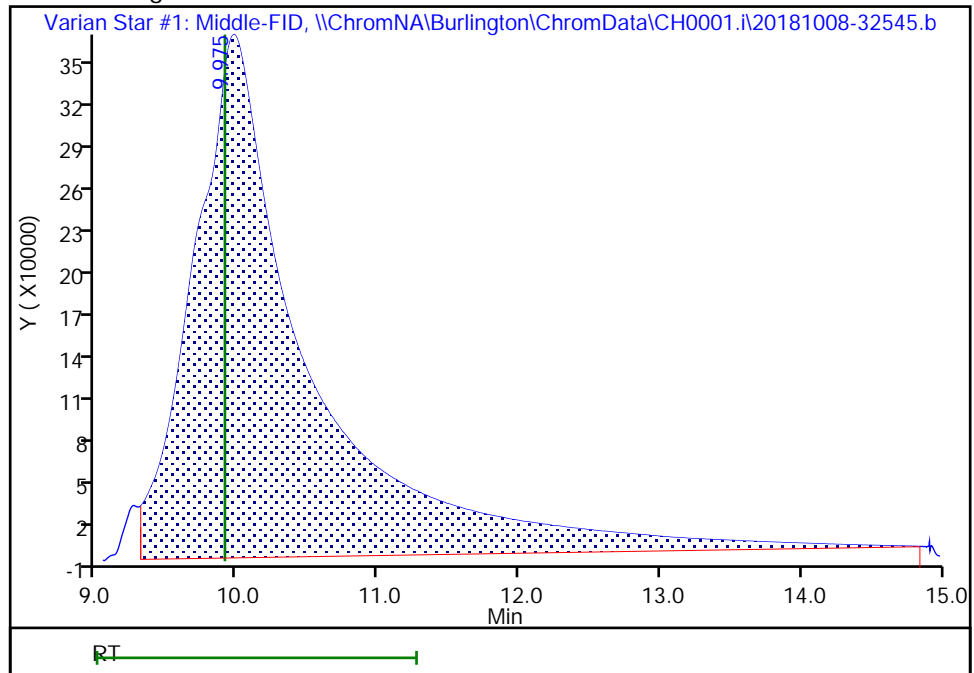
RT: 9.98  
Area: 22133127  
Amount: 1229.9614  
Amount Units: ppm-C

Processing Integration Results



RT: 9.98  
Area: 20892746  
Amount: 1161.0321  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

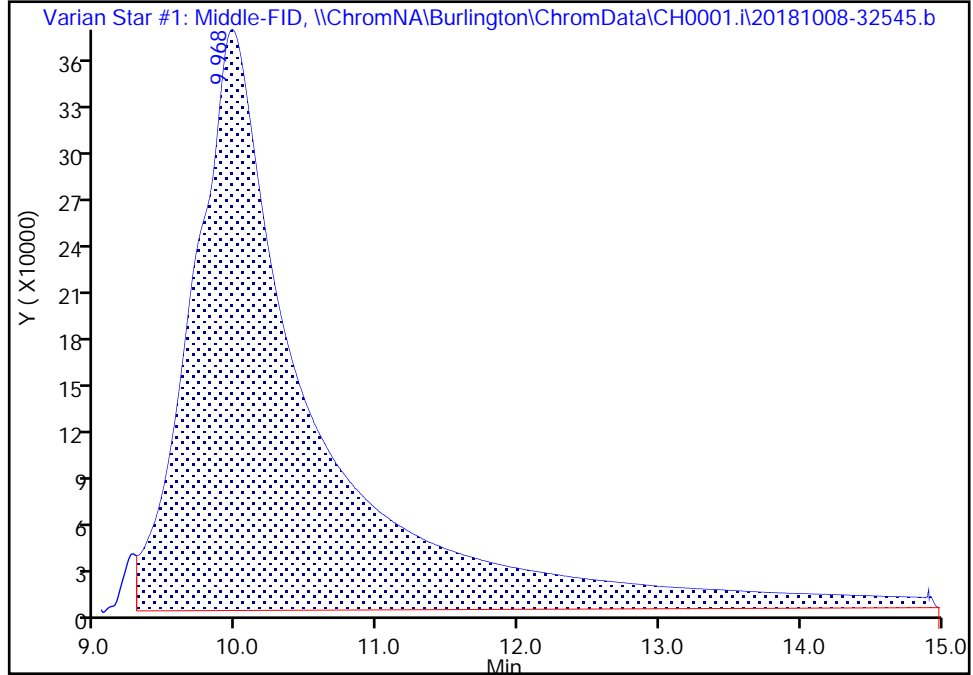
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-7h.d  
Injection Date: 09-Oct-2018 04:01:51 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-7 Lab Sample ID: 200-45504-7  
Client ID: KTSG-COMP-15  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 33  
Purge Vol: 2.000 mL Dil. Factor: 4.6900  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

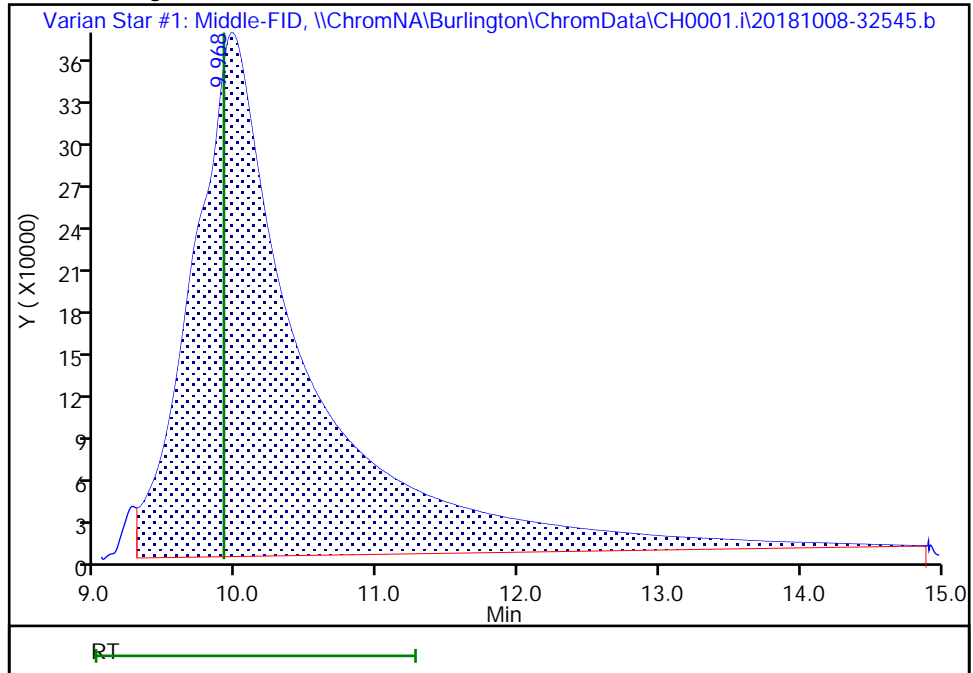
RT: 9.97  
Area: 22197888  
Amount: 1233.5603  
Amount Units: ppm-C

Processing Integration Results



RT: 9.97  
Area: 21115286  
Amount: 1173.3989  
Amount Units: ppm-C

Manual Integration Results





FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-16</u>	Lab Sample ID: <u>200-45504-8</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-8f.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/27/2018 11:50</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 04:33</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>5.62</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135246</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	6700		34	34
STL02483	NMOC as Carbon - N2 Corrected	7700		34	34
STL02482	NMOC as Carbon - O2 Corrected	7200		34	34

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8f.d  
 Lims ID: 200-45504-A-8  
 Client ID: KTSG-COMP-16  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 04:33:54 ALS Bottle#: 0 Worklist Smp#: 34  
 Purge Vol: 2.000 mL Dil. Factor: 5.6200  
 Sample Info: 200-45504-A-8f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:43:33

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	-----------------	-------

1 Nonmethane Organic Compoun	9.928	9.908	0.020	21437345	1191.3	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8g.d  
 Lims ID: 200-45504-A-8  
 Client ID: KTSG-COMP-16  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 04:49:55 ALS Bottle#: 0 Worklist Smp#: 35  
 Purge Vol: 2.000 mL Dil. Factor: 5.6200  
 Sample Info: 200-45504-A-8g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:43:48

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	-----------------	-------

1 Nonmethane Organic Compoun	9.923	9.908	0.015	21628901	1201.9	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8h.d  
 Lims ID: 200-45504-A-8  
 Client ID: KTSG-COMP-16  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 05:06:02 ALS Bottle#: 0 Worklist Smp#: 36  
 Purge Vol: 2.000 mL Dil. Factor: 5.6200  
 Sample Info: 200-45504-A-8h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:44:01

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.922	9.908	0.014	21746268	1208.5	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-8f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-8g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-8h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	21437345	21628901	21746268	21604171.33	0.77

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	1191.3	1201.94	1208.46	1200.57	0.77

Report Date: 15-Oct-2018 13:56:01

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8f.d

Injection Date: 09-Oct-2018 04:33:54

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-8

Lab Sample ID: 200-45504-8

Worklist Smp#: 34

Client ID: KTSG-COMP-16

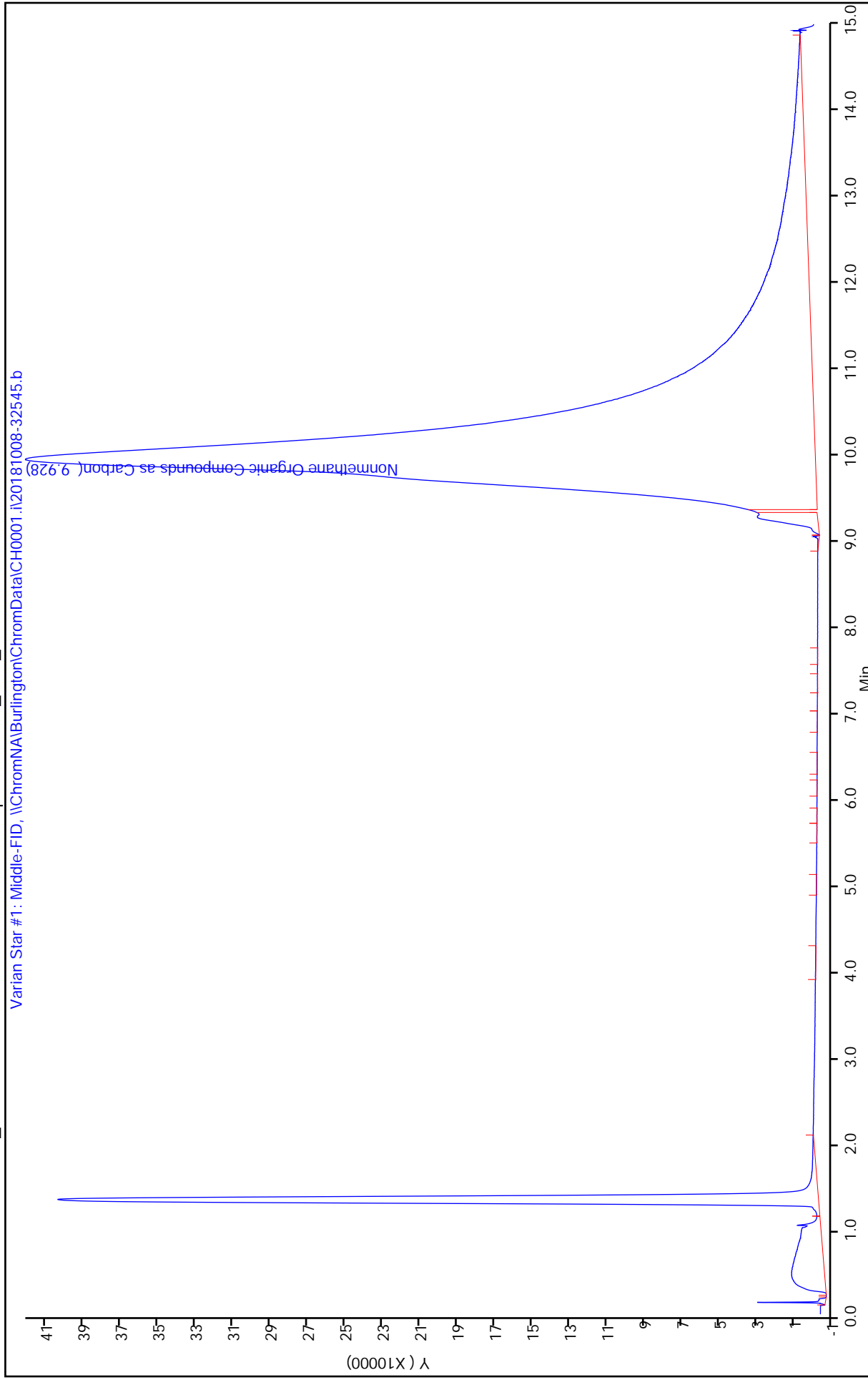
Purge Vol: 2.000 mL

Dil. Factor: 5.6200

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:56:02

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8g.d

Injection Date: 09-Oct-2018 04:49:55

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-8

Lab Sample ID: 200-45504-8

Worklist Smp#: 35

Client ID: KTSG-COMP-16

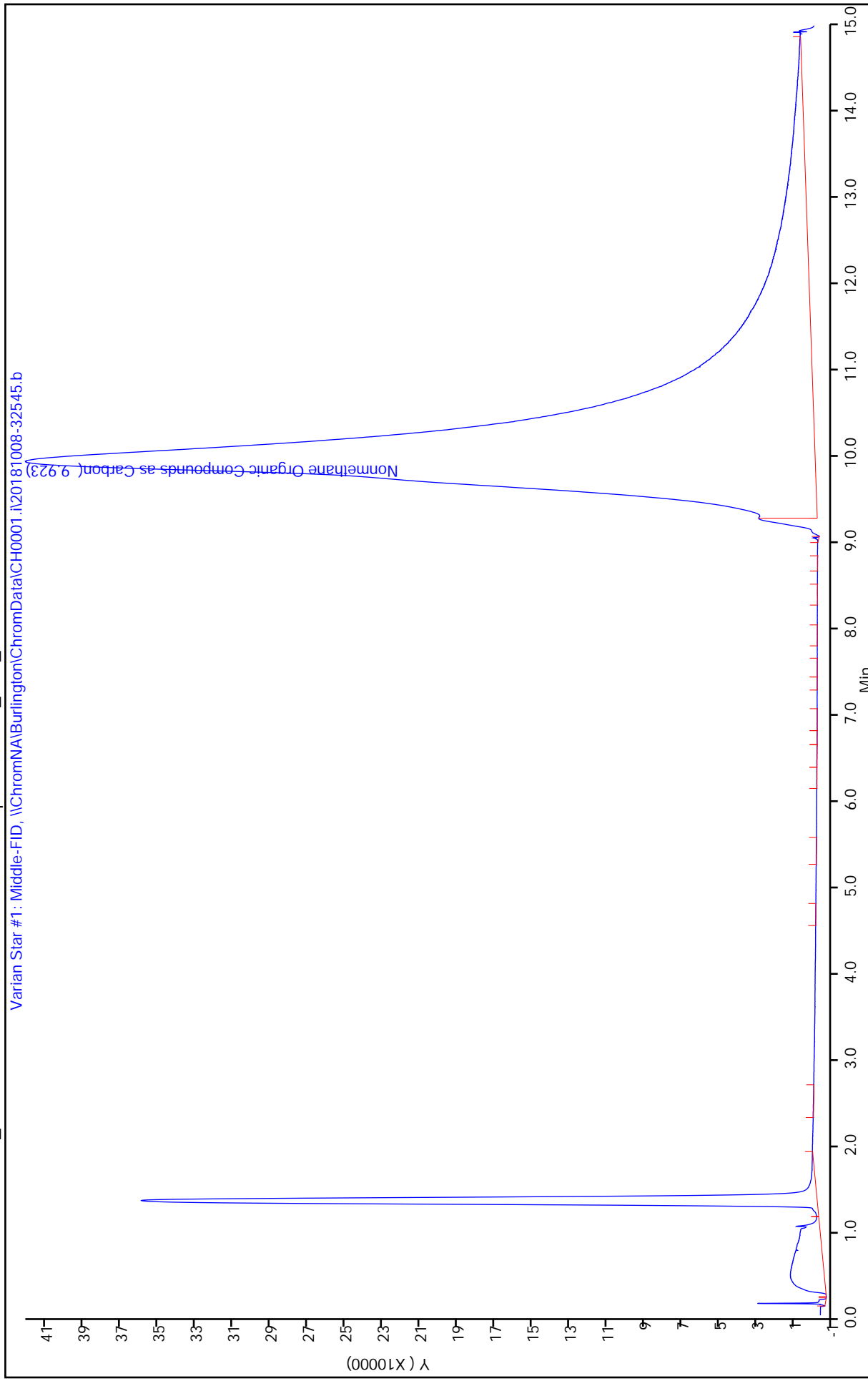
Purge Vol: 2.000 mL

Dil. Factor: 5.6200

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:56:04

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8h.d

Injection Date: 09-Oct-2018 05:06:02

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: 200-45504-A-8

Lab Sample ID: 200-45504-8

Worklist Smp#: 36

Client ID: KTSG-COMP-16

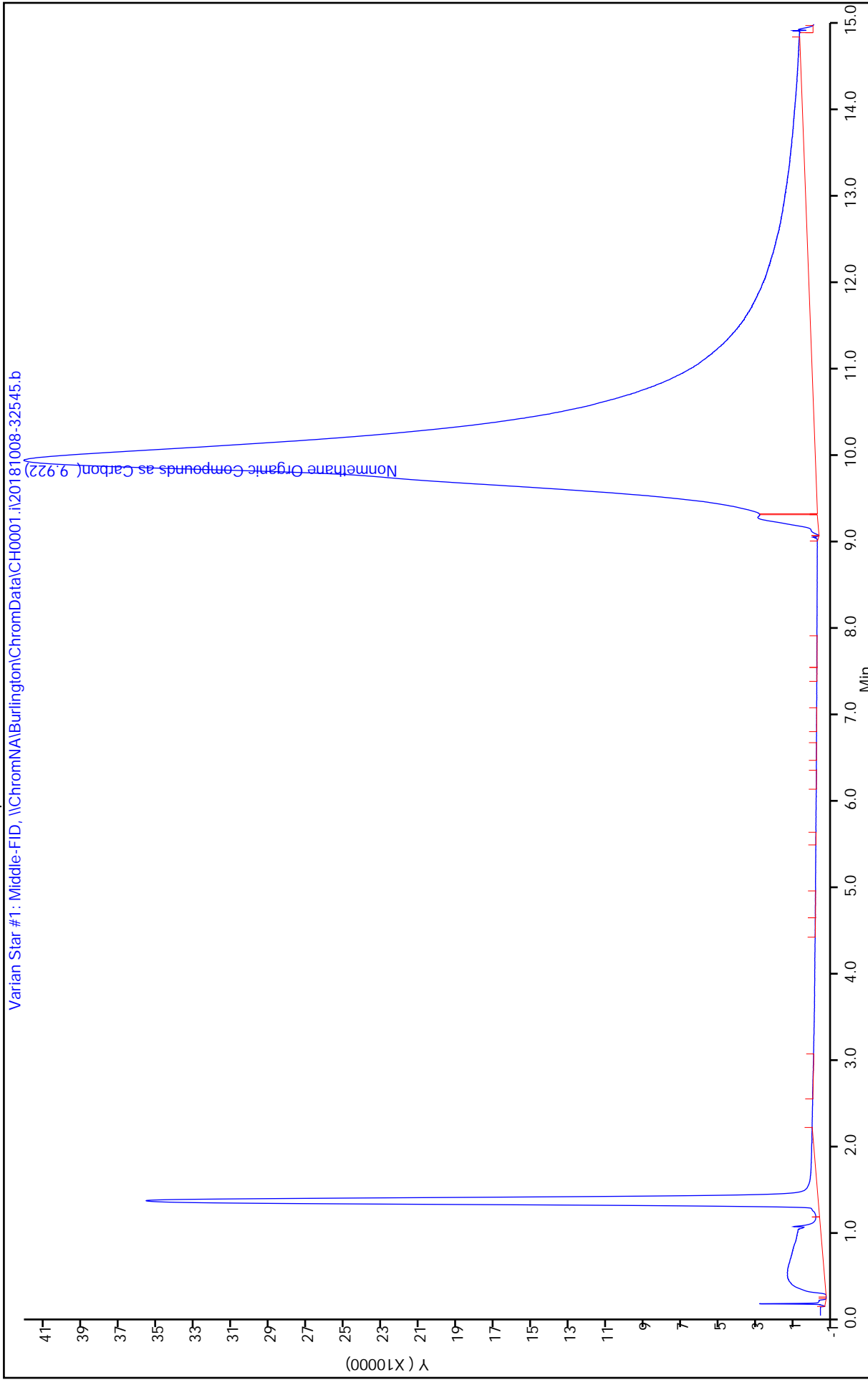
Purge Vol: 2.000 mL

Dil. Factor: 5.6200

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





TestAmerica Burlington

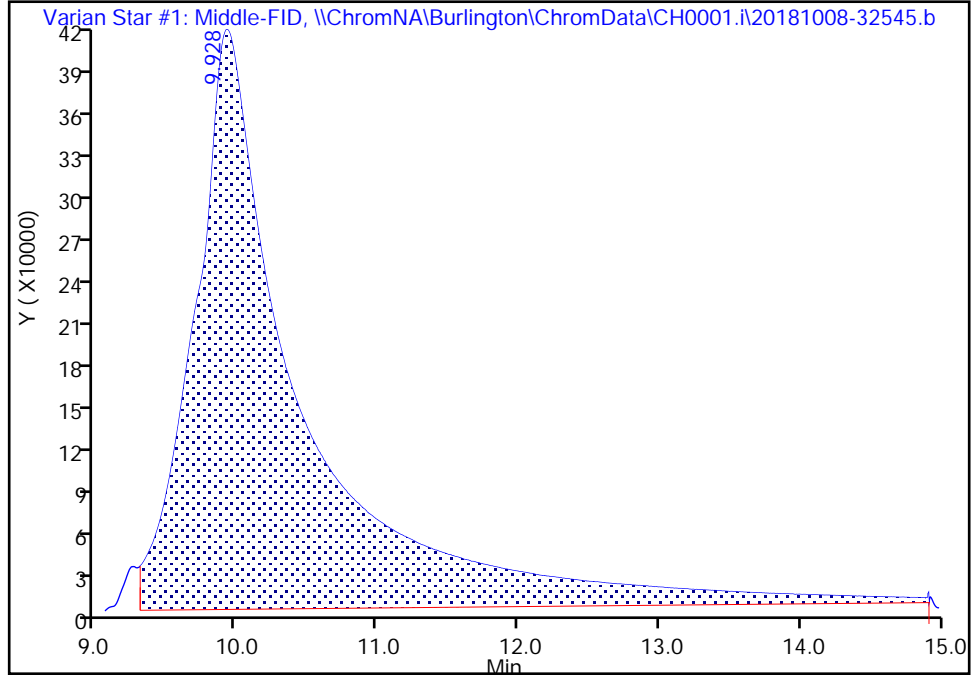
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8f.d  
Injection Date: 09-Oct-2018 04:33:54 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 34  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

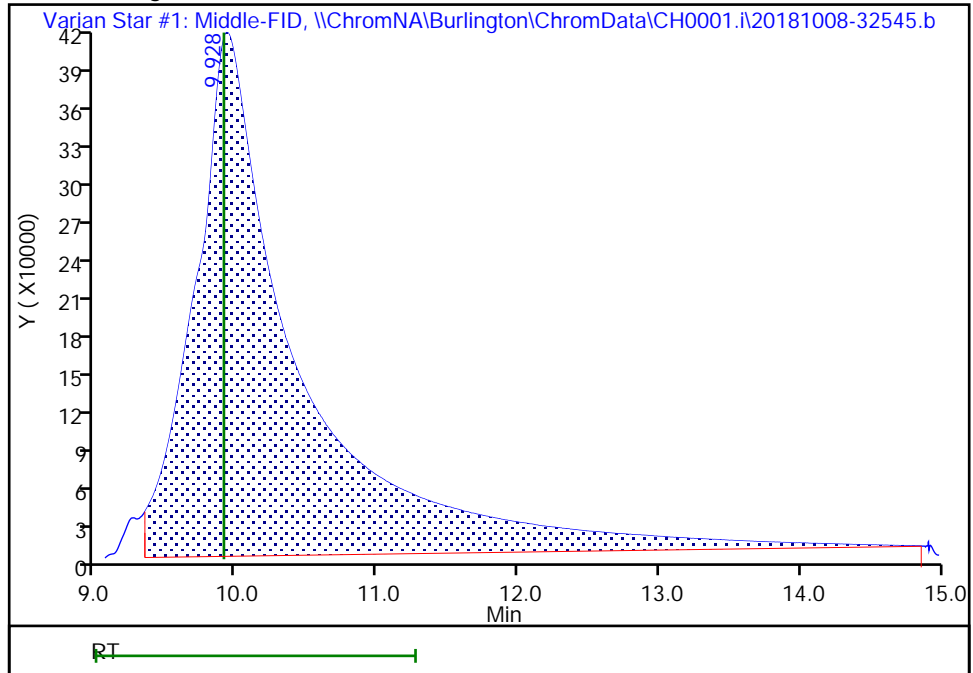
RT: 9.93  
Area: 22034220  
Amount: 1224.4651  
Amount Units: ppm-C

Processing Integration Results



RT: 9.93  
Area: 21437345  
Amount: 1191.2961  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

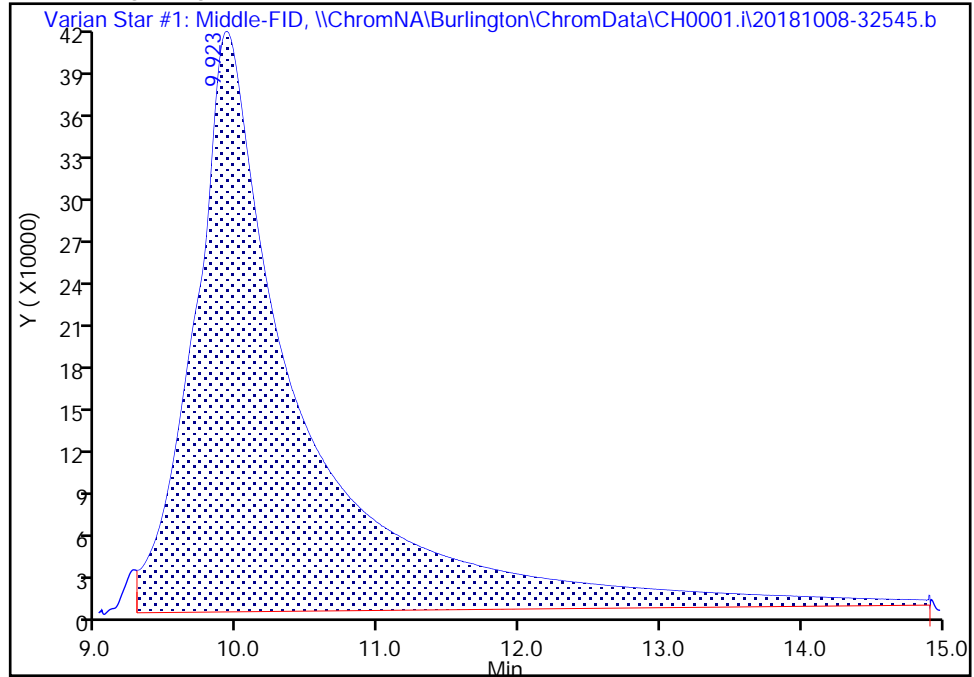
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8g.d  
Injection Date: 09-Oct-2018 04:49:55 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 35  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

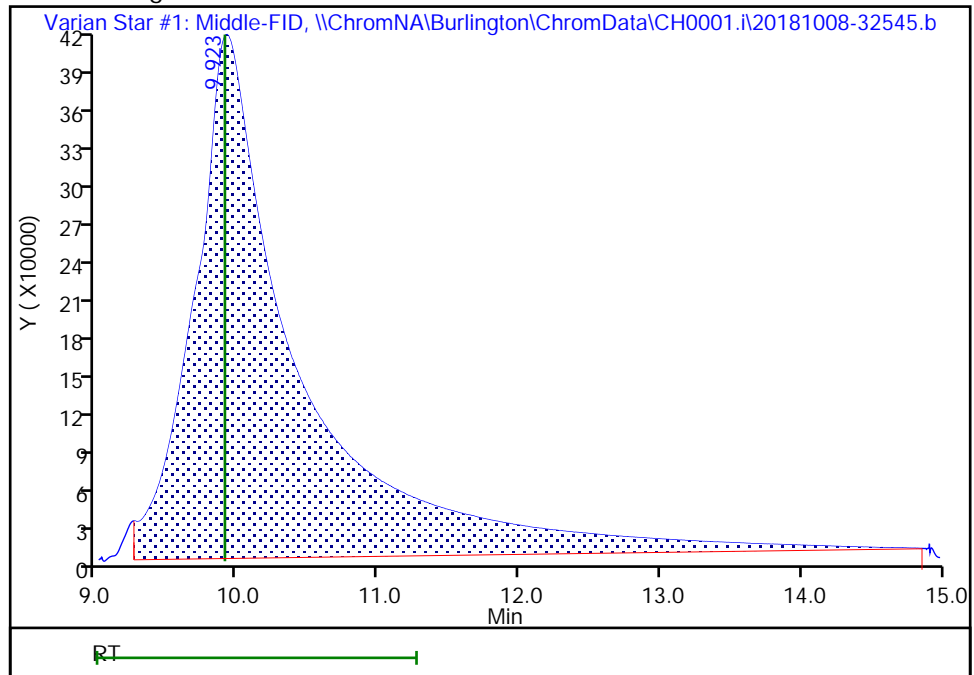
RT: 9.92  
Area: 22156936  
Amount: 1231.2845  
Amount Units: ppm-C

Processing Integration Results



RT: 9.92  
Area: 21628901  
Amount: 1201.9410  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

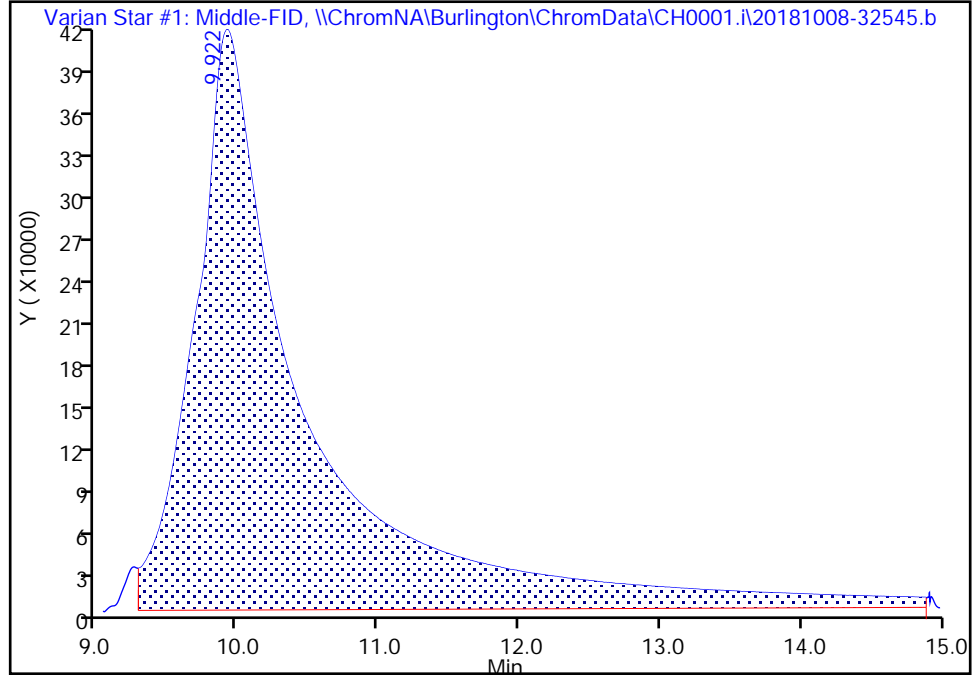
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-8h.d  
Injection Date: 09-Oct-2018 05:06:02 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-8 Lab Sample ID: 200-45504-8  
Client ID: KTSG-COMP-16  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 36  
Purge Vol: 2.000 mL Dil. Factor: 5.6200  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

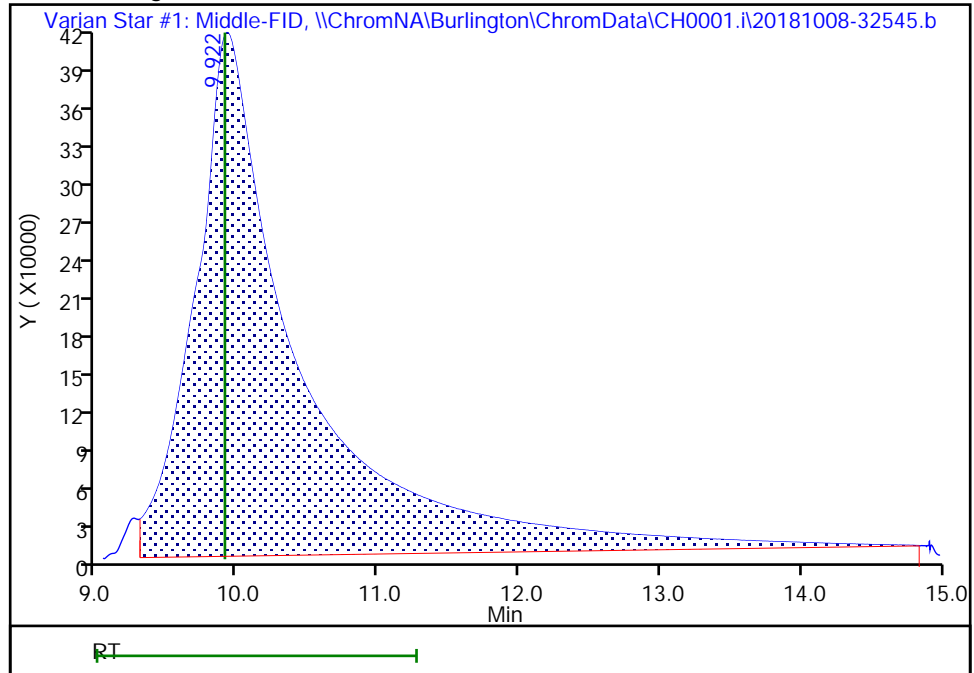
RT: 9.92  
Area: 22928897  
Amount: 1274.1832  
Amount Units: ppm-C

Processing Integration Results



RT: 9.92  
Area: 21746268  
Amount: 1208.4633  
Amount Units: ppm-C

Manual Integration Results



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Burlington</u>	Job No.: <u>200-45504-1</u>
SDG No.: <u>200-45504-1</u>	
Client Sample ID: <u>KTSG-COMP-17</u>	Lab Sample ID: <u>200-45504-9</u>
Matrix: <u>Air</u>	Lab File ID: <u>200-45504-a-9f.d-avg</u>
Analysis Method: <u>EPA 25C</u>	Date Collected: <u>09/27/2018 13:06</u>
Sample wt/vol: <u>2 (mL)</u>	Date Analyzed: <u>10/09/2018 05:38</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>4.8</u>
Soil Extract Vol.: _____	GC Column: <u>Carbo/Unibeads</u> ID: <u>2 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>135246</u>	Units: <u>ppm-C</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	7800		29	29
STL02483	NMOC as Carbon - N2 Corrected	9300		29	29
STL02482	NMOC as Carbon - O2 Corrected	8400		29	29

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9f.d  
 Lims ID: 200-45504-A-9  
 Client ID: KTSG-COMP-17  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 05:38:07 ALS Bottle#: 0 Worklist Smp#: 37  
 Purge Vol: 2.000 mL Dil. Factor: 4.8000  
 Sample Info: 200-45504-A-9f  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:44:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.835	9.908	-0.073	29386417	1633.0	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9g.d  
 Lims ID: 200-45504-A-9  
 Client ID: KTSG-COMP-17  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 05:54:08 ALS Bottle#: 0 Worklist Smp#: 38  
 Purge Vol: 2.000 mL Dil. Factor: 4.8000  
 Sample Info: 200-45504-A-9g  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:45:11

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.832	9.908	-0.076	29257533	1625.9	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9h.d  
 Lims ID: 200-45504-A-9  
 Client ID: KTSG-COMP-17  
 Sample Type: Client  
 Inject. Date: 09-Oct-2018 06:10:13 ALS Bottle#: 0 Worklist Smp#: 39  
 Purge Vol: 2.000 mL Dil. Factor: 4.8000  
 Sample Info: 200-45504-A-9h  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:45:47

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	-----------------	-------

1 Nonmethane Organic Compoun	9.830	9.908	-0.078	29442911	1636.2	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\200-45504-a-9f-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-9g-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\200-45504-a-9h-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	29386417	29257533	29442911	29362287	0.36

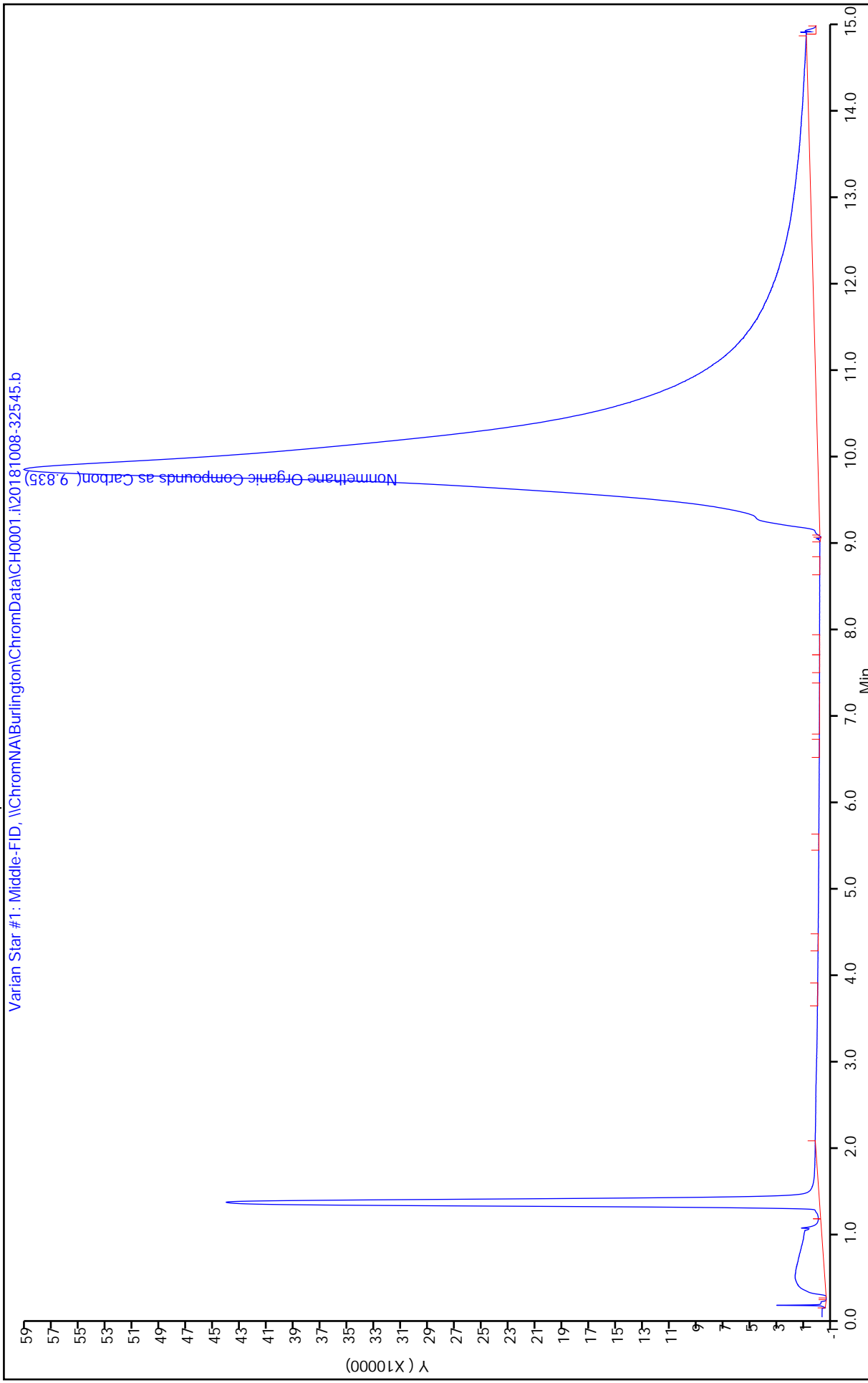
  

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	1633.03	1625.87	1636.17	1631.69	0.36



TestAmerica Burlington

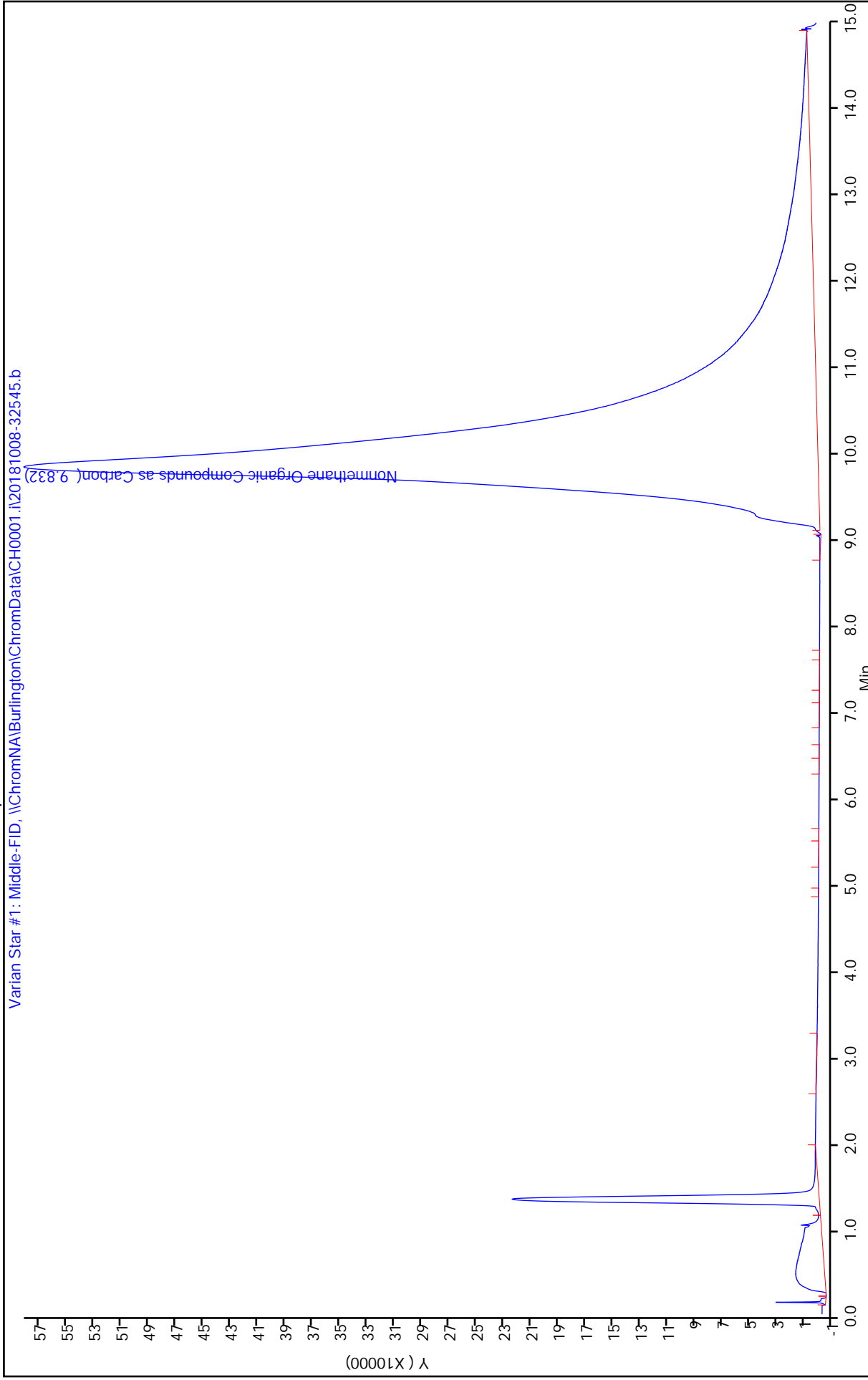
Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9f.d  
Injection Date: 09-Oct-2018 05:38:07 Instrument ID: CH0001.i Operator ID: WRD  
Lims ID: 200-45504-A-9 Lab Sample ID: 200-45504-9 Worklist Smp#: 37  
Client ID: KTSG-COMP-17 Dil. Factor: 4.8000 ALS Bottle#: 0  
Purge Vol: 2.000 mL Limit Group: AI\_25C\_Limits  
Method: EPA25C\_0001.i



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9g.d  
Injection Date: 09-Oct-2018 05:54:08  
Instrument ID: CH0001.i  
Lims ID: 200-45504-A-9  
Lab Sample ID: 200-45504-9  
Client ID: KTSG-COMP-17  
Purge Vol: 2.000 mL  
Dil. Factor: 4.8000  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

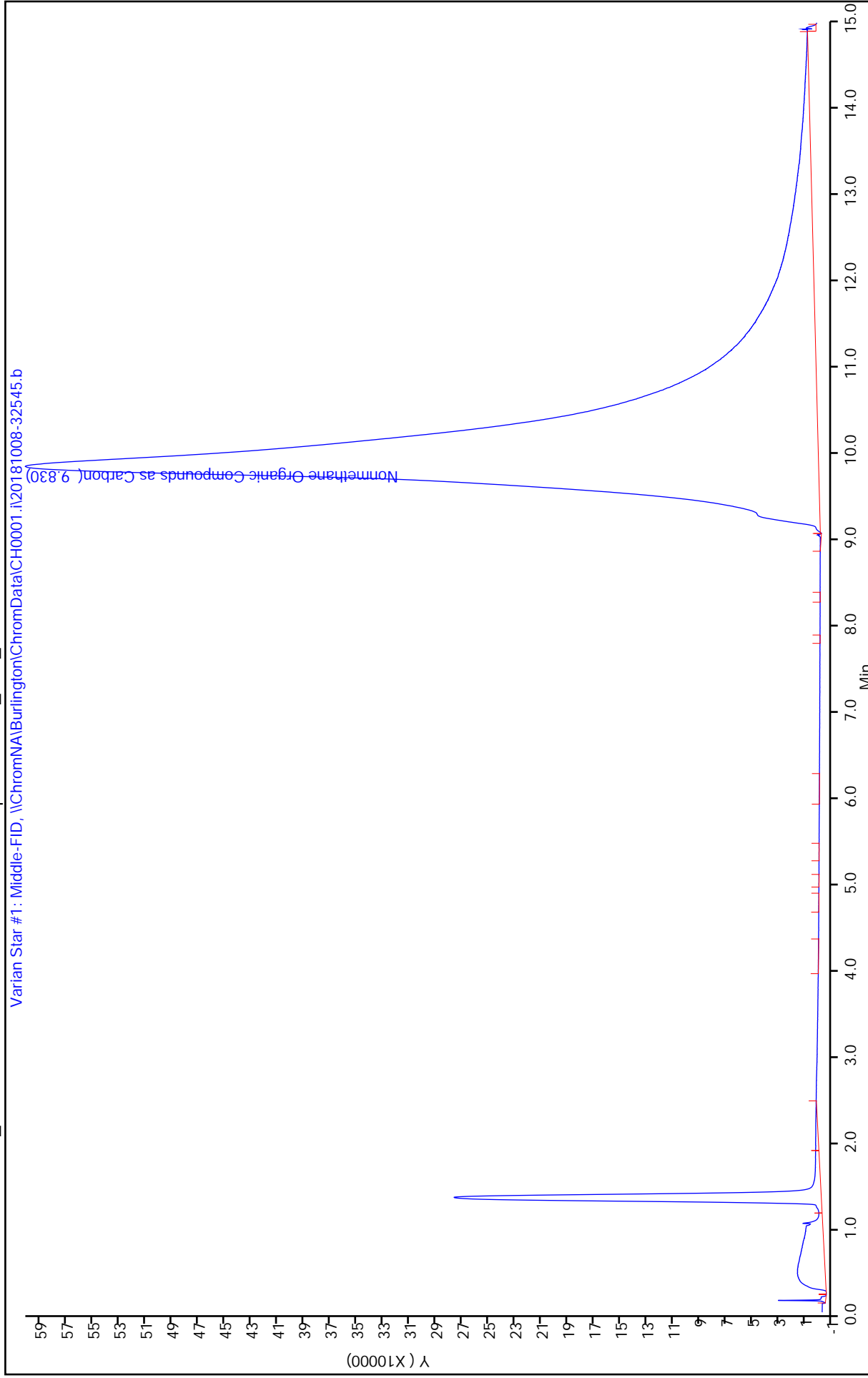
Operator ID: WRD  
Worklist Smp#: 38



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9h.d  
Injection Date: 09-Oct-2018 06:10:13  
Instrument ID: CH0001.i  
Lims ID: 200-45504-A-9  
Lab Sample ID: 200-45504-9  
Client ID: KTSG-COMP-17  
Purge Vol: 2.000 mL  
Dil. Factor: 4.8000  
ALS Bottle#: 0  
Method: EPA25C\_0001.i  
Limit Group: AI\_25C\_Limits

Operator ID: WRD  
Worklist Smp#: 39



TestAmerica Burlington

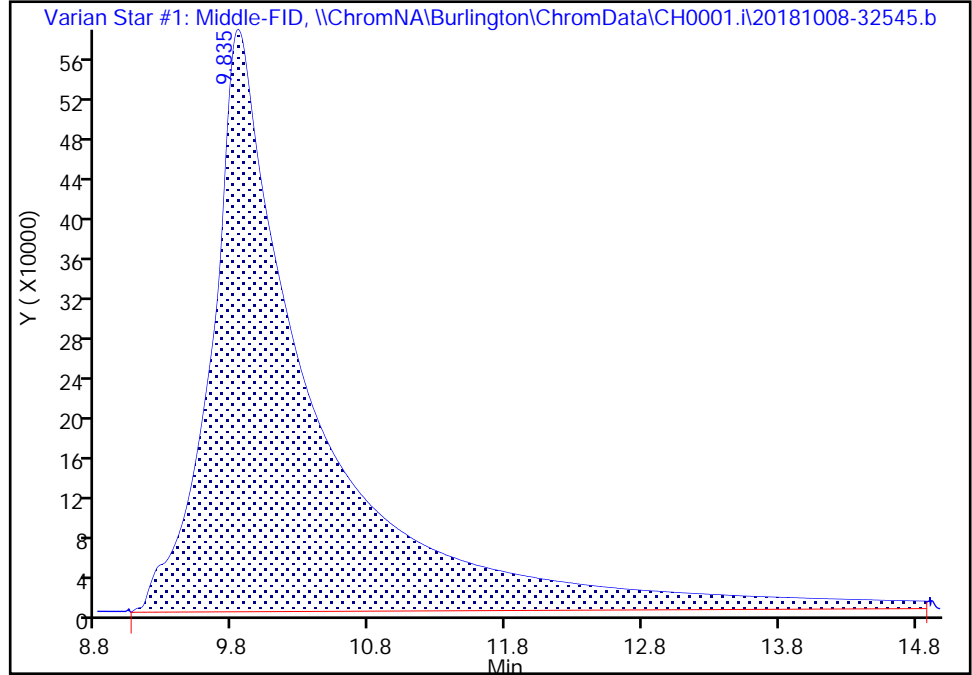
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9f.d  
Injection Date: 09-Oct-2018 05:38:07 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-9 Lab Sample ID: 200-45504-9  
Client ID: KTSG-COMP-17  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 37  
Purge Vol: 2.000 mL Dil. Factor: 4.8000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

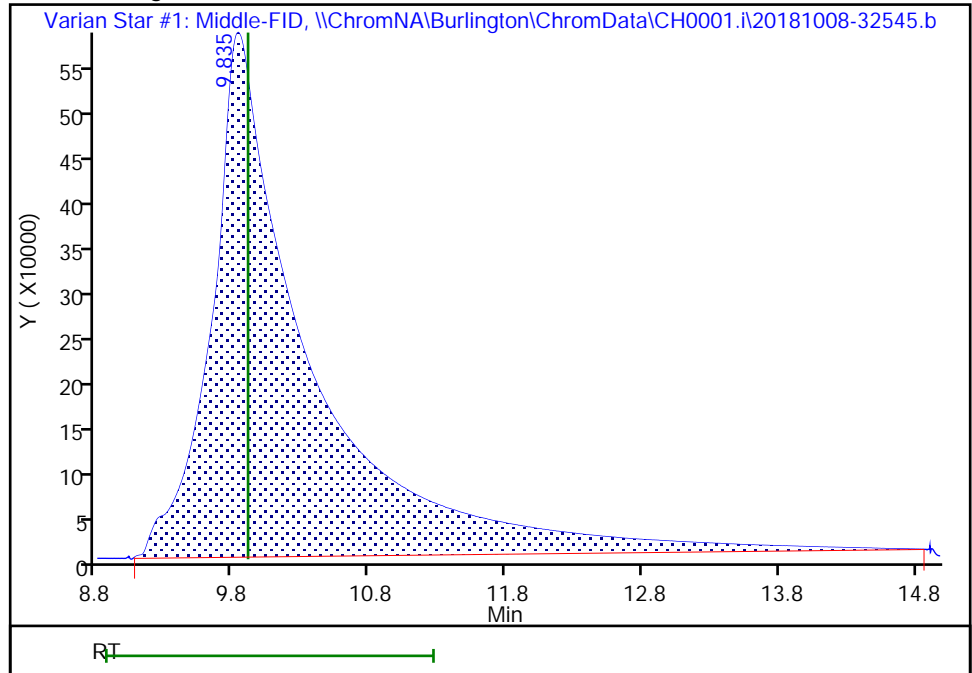
RT: 9.84  
Area: 30765411  
Amount: 1709.6666  
Amount Units: ppm-C

Processing Integration Results



RT: 9.84  
Area: 29386417  
Amount: 1633.0345  
Amount Units: ppm-C

Manual Integration Results



TestAmerica Burlington

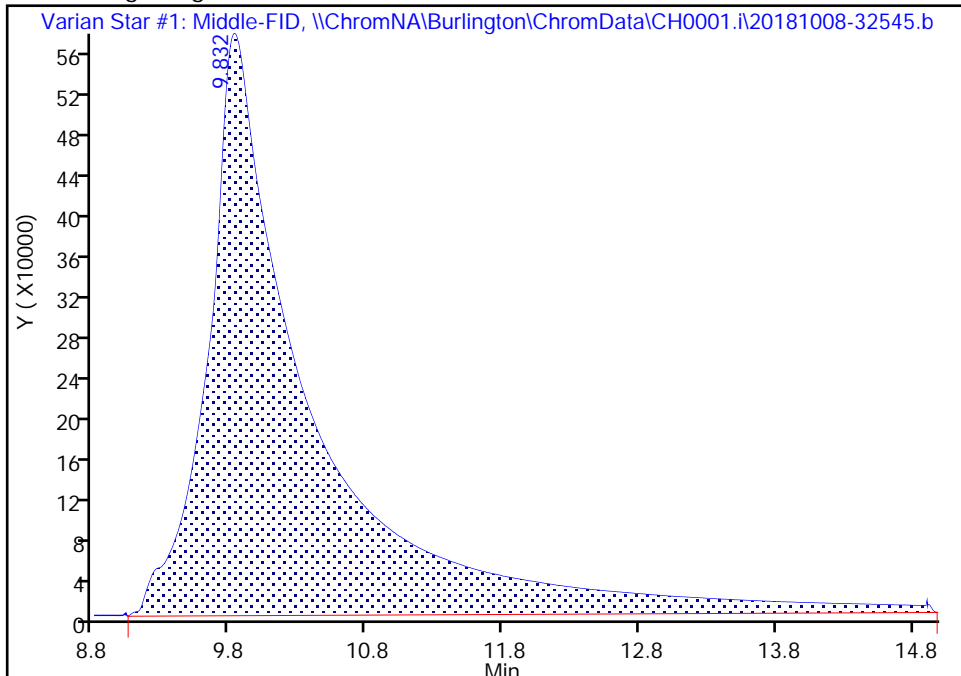
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9g.d  
Injection Date: 09-Oct-2018 05:54:08 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-9 Lab Sample ID: 200-45504-9  
Client ID: KTSG-COMP-17  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 38  
Purge Vol: 2.000 mL Dil. Factor: 4.8000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

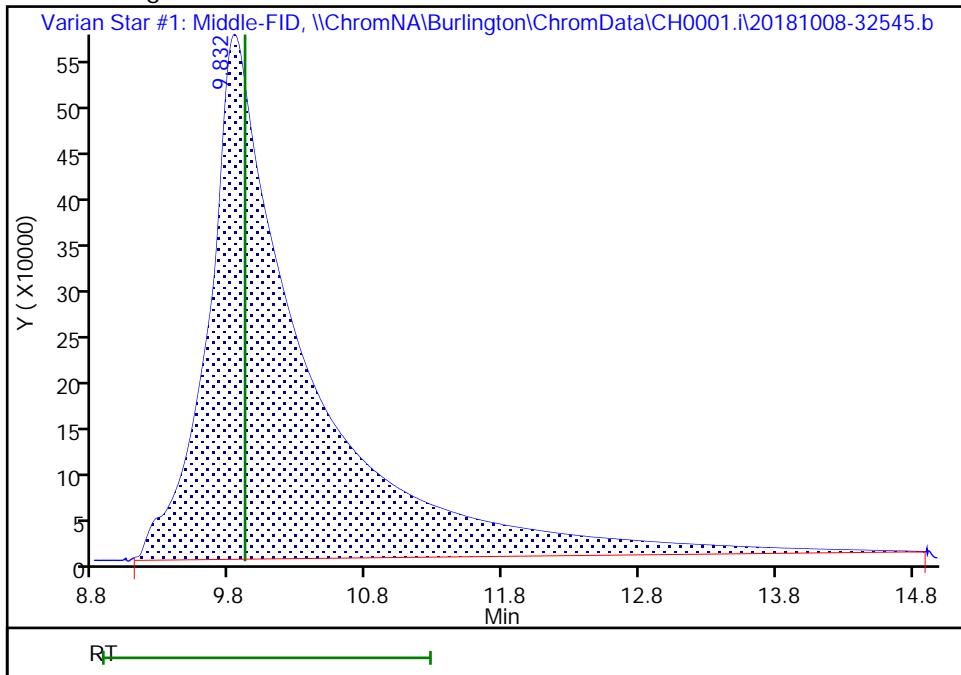
RT: 9.83  
Area: 30566951  
Amount: 1698.6380  
Amount Units: ppm-C

Processing Integration Results



RT: 9.83  
Area: 29257533  
Amount: 1625.8722  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:45:08  
Audit Action: Manually Integrated

Audit Reason: Baseline Smoothing

TestAmerica Burlington

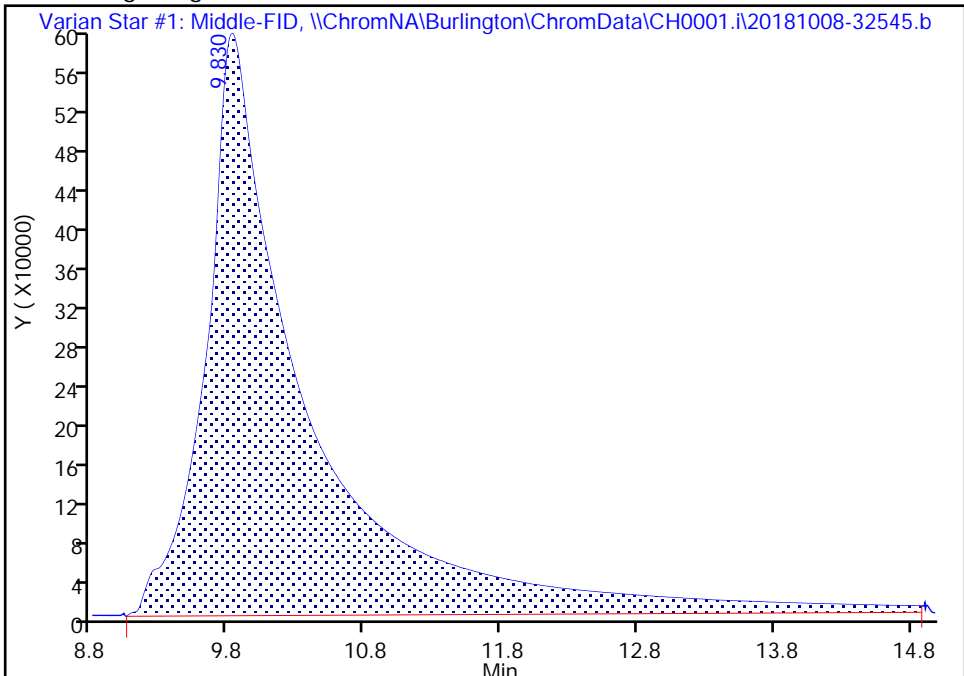
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\200-45504-a-9h.d  
Injection Date: 09-Oct-2018 06:10:13 Instrument ID: CH0001.i  
Lims ID: 200-45504-A-9 Lab Sample ID: 200-45504-9  
Client ID: KTSG-COMP-17  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 39  
Purge Vol: 2.000 mL Dil. Factor: 4.8000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

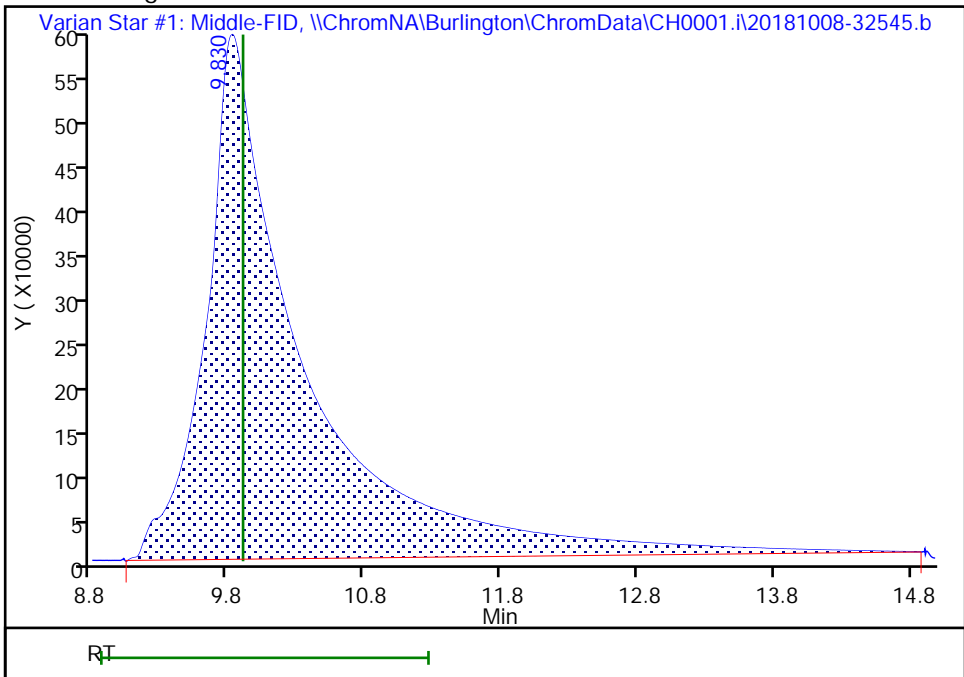
RT: 9.83  
Area: 30688492  
Amount: 1705.3922  
Amount Units: ppm-C

Processing Integration Results



RT: 9.83  
Area: 29442911  
Amount: 1636.1739  
Amount Units: ppm-C

Manual Integration Results



FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45504-1 Analy Batch No.: 83144

SDG No.: 200-45504-1

Instrument ID: CH0001.i GC Column: Carbo/Unibe ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2015 10:26 Calibration End Date: 01/08/2015 12:02 Calibration ID: 29454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-83144/3	25cic1_01082015001.d-avg
Level 2	ICRT 200-83144/1	25cic2_01072015001.d-avg
Level 3	IC 200-83144/2	25cic3_01072015001.d-avg

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
NMOC as Carbon - Uncorrected	9.879	9.885	9.865								8.868 - 11.268	9.876

FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45504-1 Analy Batch No.: 83144

SDG No.: 200-45504-1

Instrument ID: CH0001.i GC Column: Carbo/Unibe ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2015 10:26 Calibration End Date: 01/08/2015 12:02 Calibration ID: 29454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-83144/3	25cic1_01082015001.d-avg
Level 2	ICRT 200-83144/1	25cic2_01072015001.d-avg
Level 3	IC 200-83144/2	25cic3_01072015001.d-avg

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3			B	M1	M2								
NMOC as Carbon - Uncorrected	17922	18251	17811		Ave		17994.9767			2.4			15.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.



FORM VI  
 AIR - GC VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-45504-1 Analy Batch No.: 83144

SDG No.: 200-45504-1

Instrument ID: CH0001.i GC Column: Carbo/Unibe ID: 2 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/08/2015 10:26 Calibration End Date: 01/08/2015 12:02 Calibration ID: 29454

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-83144/3	25cic1_01082015001.d-avg
Level 2	ICRT 200-83144/1	25cic2_01072015001.d-avg
Level 3	IC 200-83144/2	25cic3_01072015001.d-avg

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (PPM-C)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
NMOC as Carbon - Uncorrected	Ave	107534	13688467	32061215			6.00	750	1800		

Curve Type Legend:

Ave = Average

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015001.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 08-Jan-2015 10:26:27 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC2\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 09-Jan-2015 10:36:26 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK027

First Level Reviewer: lyonsb Date: 08-Jan-2015 10:55:08

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Nonmethane Organic Compoun	9.885	9.908	-0.023	13693270	750.0	760.9	
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Reagents:

ATNMOCCVw\_00037 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015002.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 08-Jan-2015 10:42:18 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC2\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 09-Jan-2015 10:36:26 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK027

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.853	9.908	-0.055	13680161	750.0	760.2	

Reagents:

ATNMOCCCVw\_00037 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015.d  
 Lims ID: ICRT  
 Client ID:  
 Sample Type: ICRT Calib Level: 1  
 Inject. Date: 08-Jan-2015 10:10:35 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC2\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 09-Jan-2015 10:36:25 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK027

First Level Reviewer: lyonsb Date: 08-Jan-2015 10:35:41

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.908	9.908	0.000	13691971	750.0	760.9	
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Reagents:

ATNMOCCVw\_00037 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic2\_01072015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic2\_01072015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic2\_01072015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13693270	13680161	13691971	13688467.33	0.05

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	760.95	760.22	760.88	760.68	0.05

----- NMOC Correction-----  
NMOC correction not requested, NMOC correction not applied  
-----

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015001.d

Injection Date: 08-Jan-2015 10:26:27

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 5

Client ID:

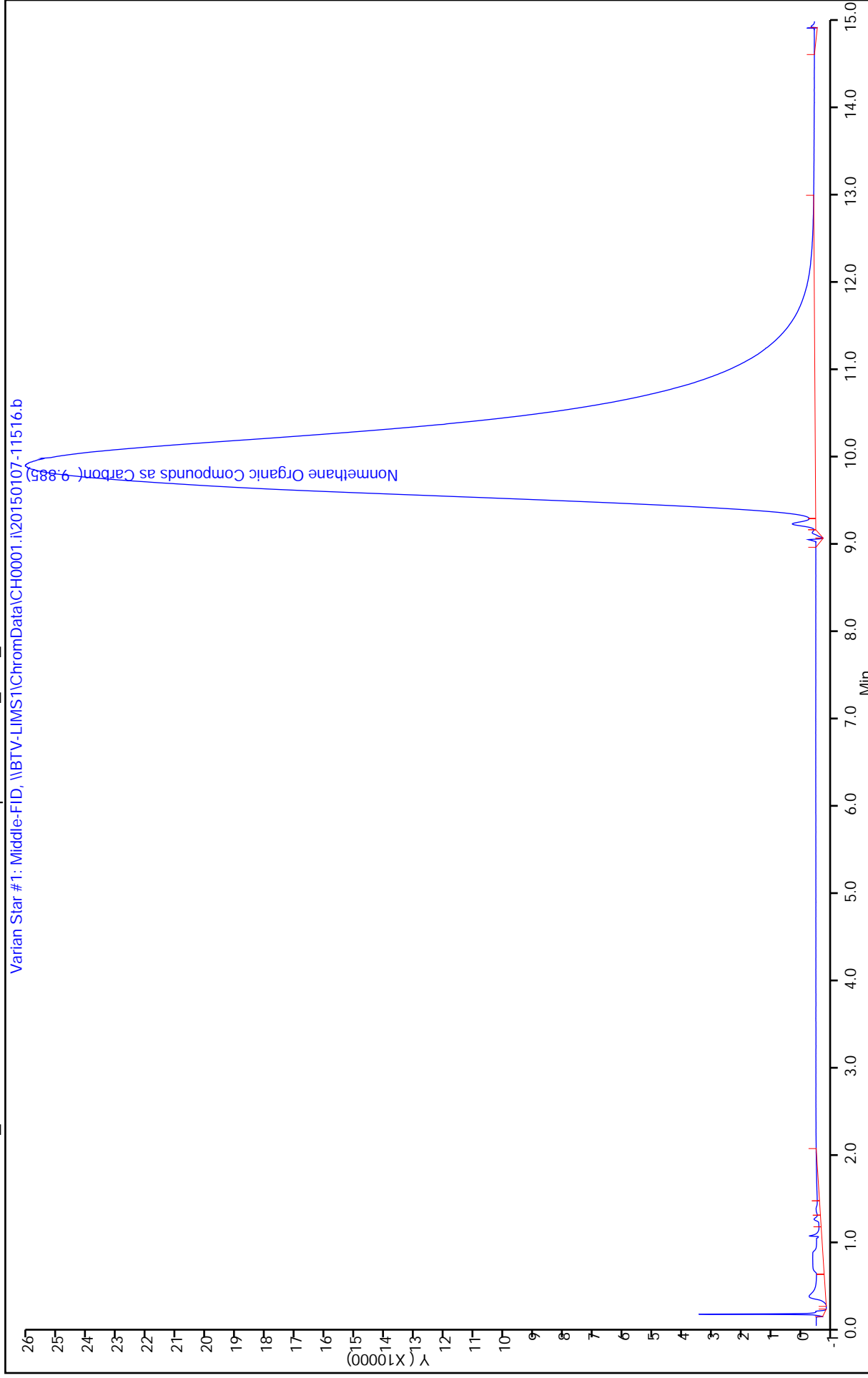
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015002.d

Injection Date: 08-Jan-2015 10:42:18

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 6

Client ID:

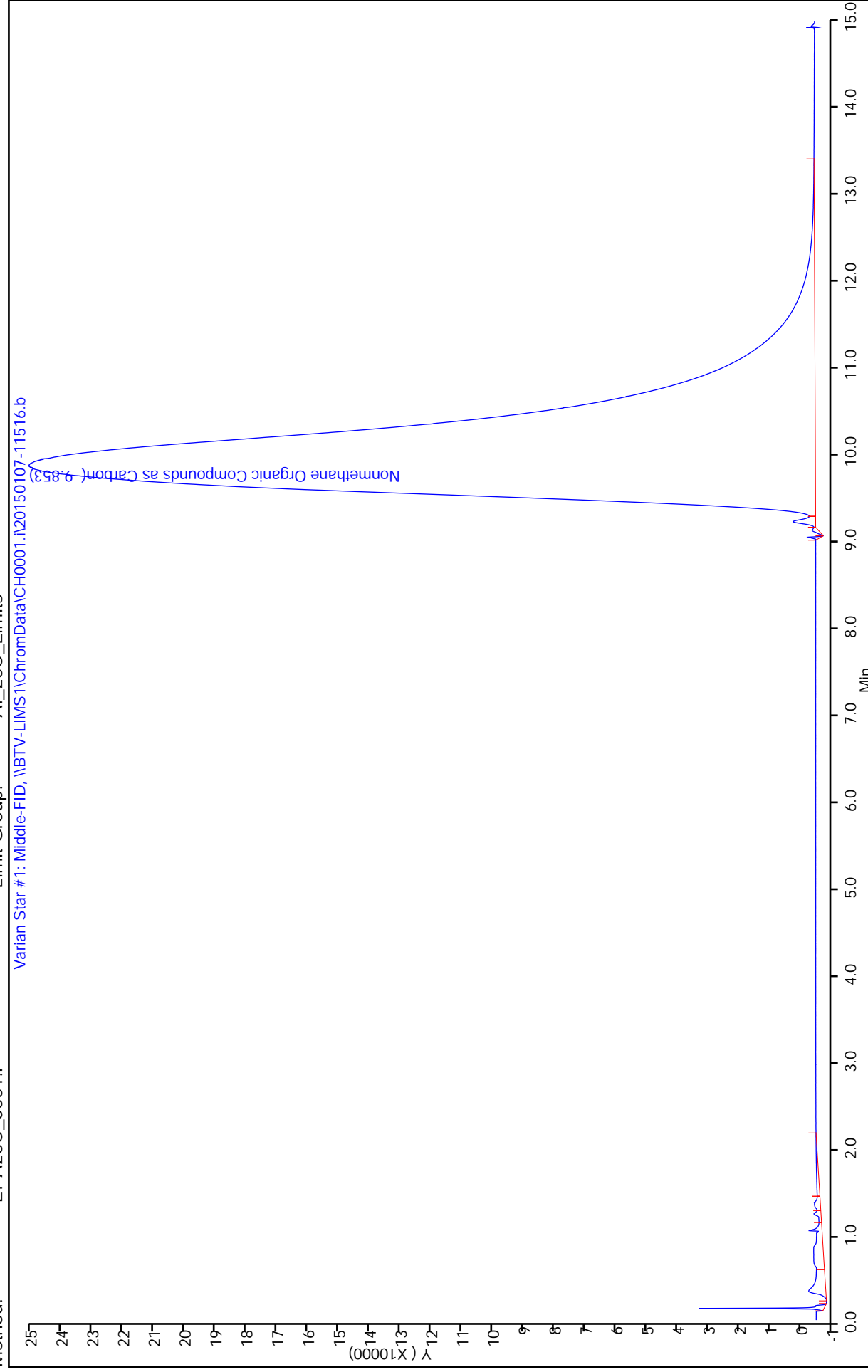
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 09-Jan-2015 10:36:25

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic2\_01072015.d

Injection Date: 08-Jan-2015 10:10:35

Instrument ID: CH0001.i

Lims ID: ICRT

Operator ID: BPL

Worklist Smp#: 4

Client ID:

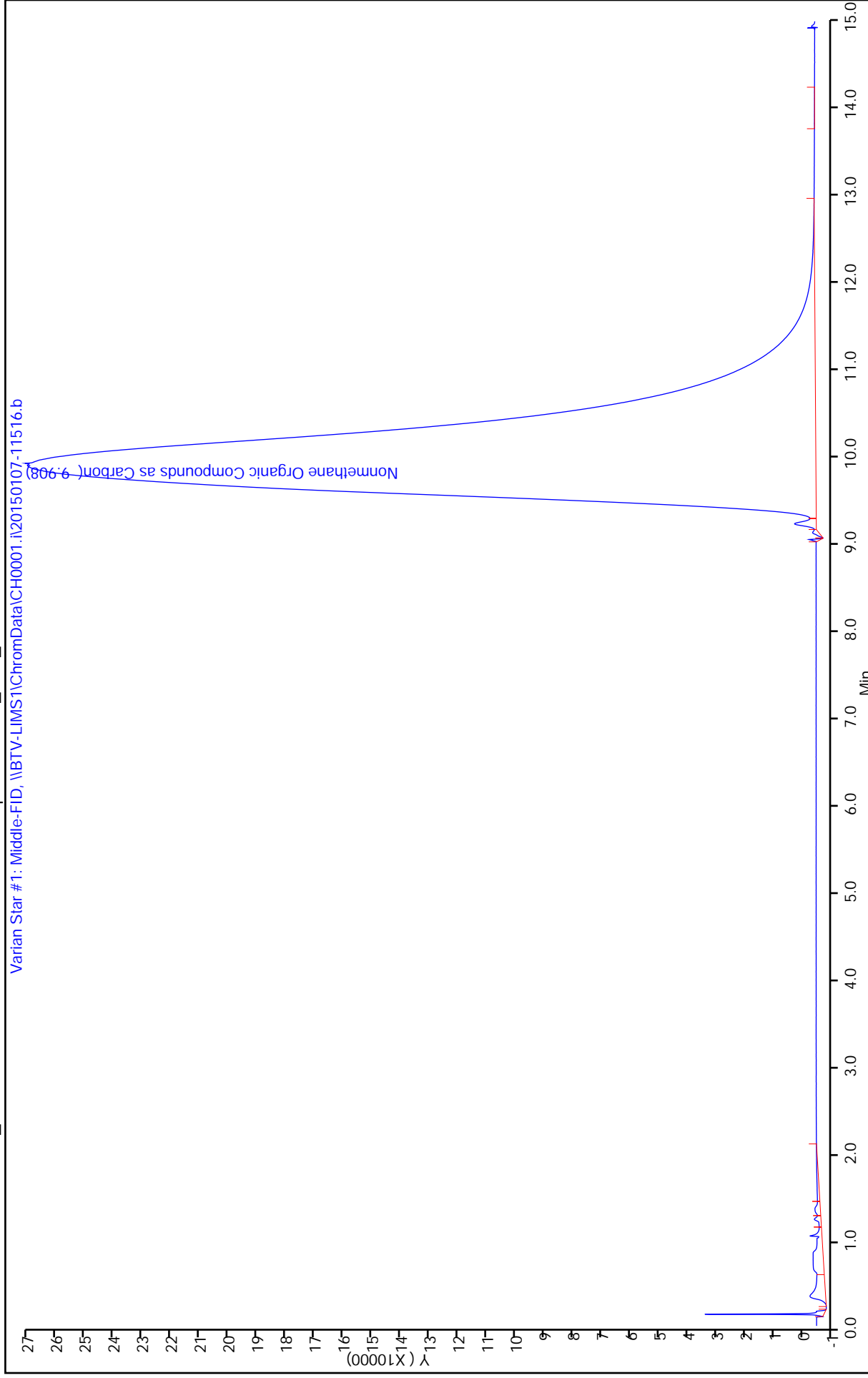
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015001.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 08-Jan-2015 11:14:01 ALS Bottle#: 0 Worklist Smp#: 8  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC3\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:18 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:11:34

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.865	9.908	-0.043	32070596	1800.0	1782.2	
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Reagents:

ATNMOCCAL3w\_00018 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015002.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 08-Jan-2015 11:29:53 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC3\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:18 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:19:04

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.889	9.908	-0.019	32070536	1800.0	1782.2	
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Reagents:

ATNMOCCAL3w\_00018 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 08-Jan-2015 10:58:10 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC3\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:17 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 11:26:46

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.869	9.908	-0.039	32042514	1800.0	1780.6	
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Reagents:

ATNMOCCAL3w\_00018 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic3\_01072015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic3\_01072015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic3\_01072015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	32070596	32070536	32042514	32061215.33	0.05

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	1782.2	1782.19	1780.64	1781.68	0.05

----- NMOC Correction-----  
NMOC correction not requested, NMOC correction not applied  
-----

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001\20150107-11516.b\25cic3\_01072015001.d

Injection Date: 08-Jan-2015 11:14:01

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 8

Client ID:

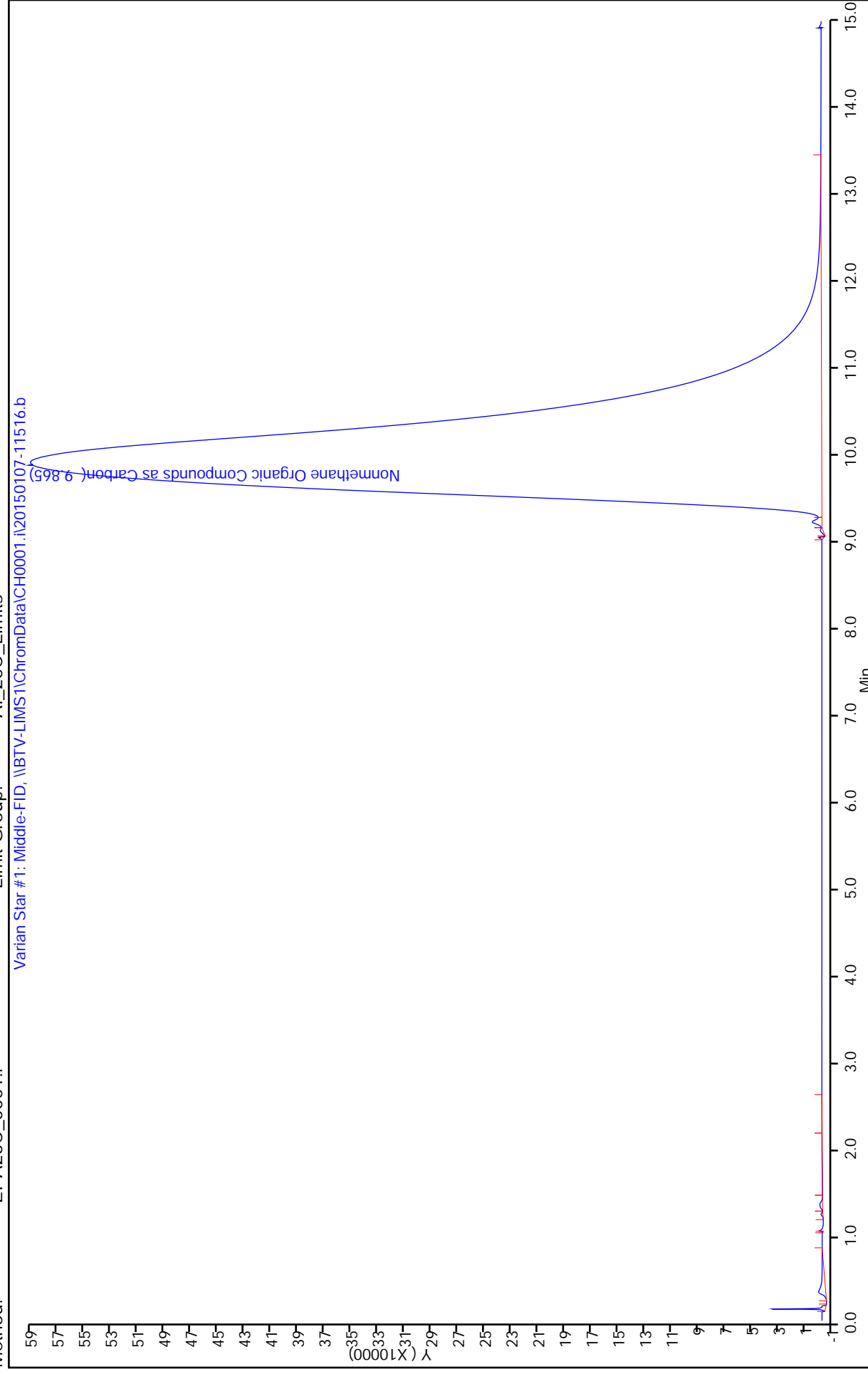
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:18

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015002.d

Injection Date: 08-Jan-2015 11:29:53

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 9

Client ID:

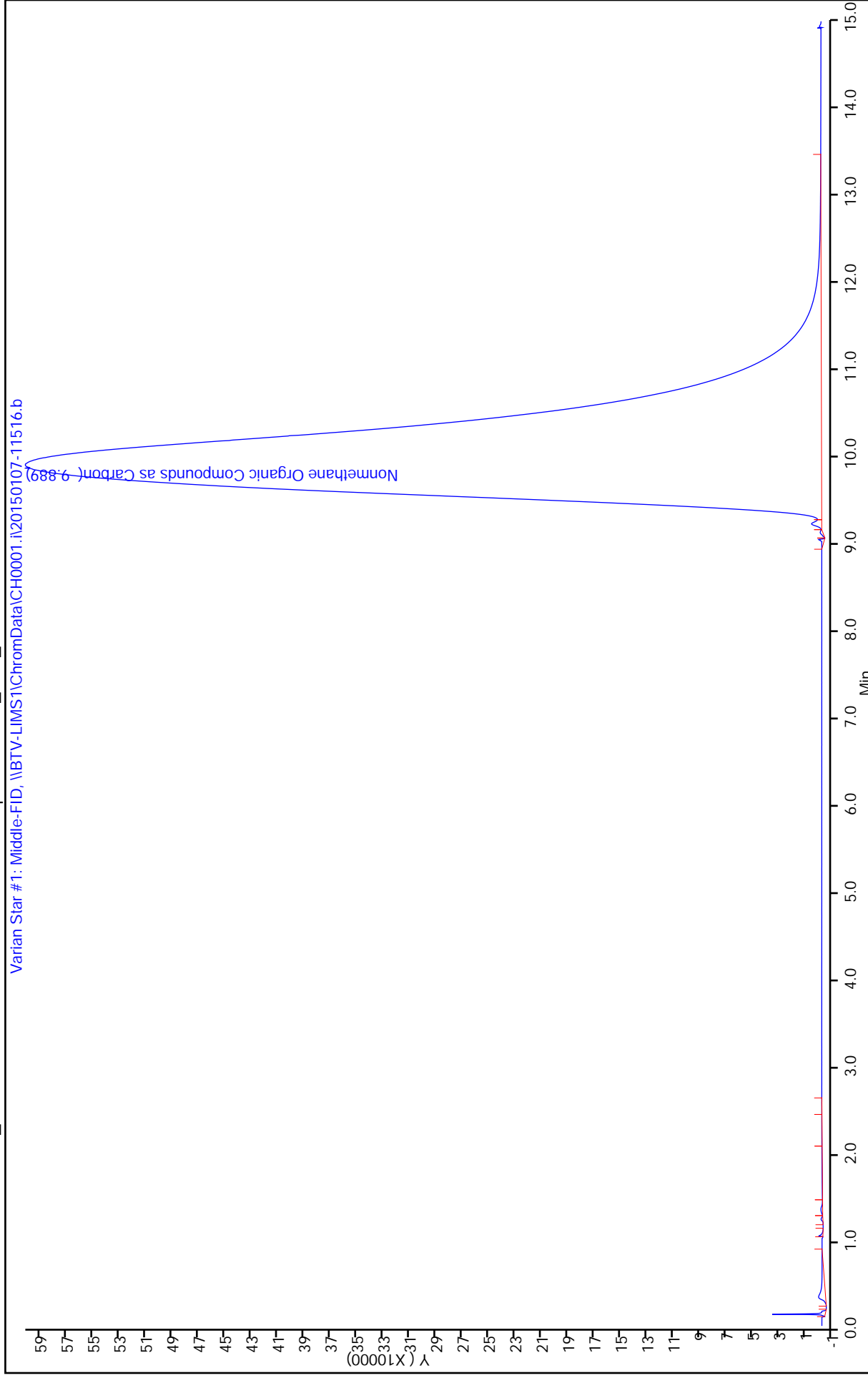
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic3\_01072015.d

Injection Date: 08-Jan-2015 10:58:10

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 7

Client ID:

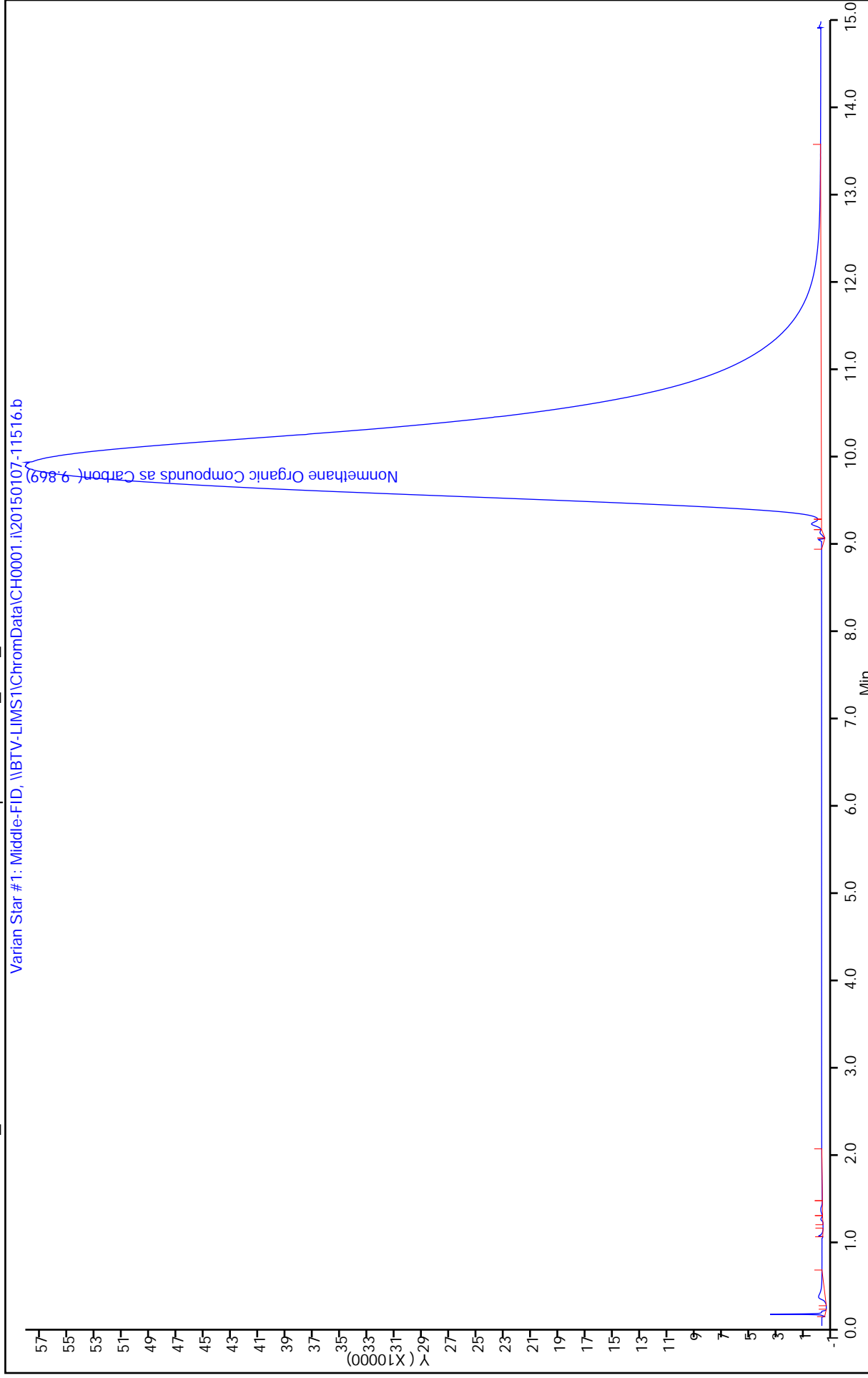
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015001.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 08-Jan-2015 12:02:40 ALS Bottle#: 0 Worklist Smp#: 14  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC1\_01082015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:19:49

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.879	9.908	-0.029	104174	6.00	5.79	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATNMOCCAL1w\_00020 Amount Added: 2.00 Units: mL



TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 08-Jan-2015 12:18:33 ALS Bottle#: 0 Worklist Smp#: 13  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC1\_01082015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:36:44

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.810	9.908	-0.098	105774	6.00	5.88	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATNMOCCAL1w\_00020 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015.d  
 Lims ID: IC  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 08-Jan-2015 11:46:49 ALS Bottle#: 0 Worklist Smp#: 15  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CIC1\_01082015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:18 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 12:12:32

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
----------	-----------	---------------	---------------	----------	---------------	-----------------	-------

1 Nonmethane Organic Compoun	9.850	9.908	-0.058	112654	6.00	6.26	M
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**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

ATNMOCCAL1w\_00020 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic1\_01082015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic1\_01082015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cic1\_01082015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	104174	105774	112654	107534	4.19

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	5.79	5.88	6.26	5.98	4.19

----- NMOC Correction-----

NMOC correction not requested, NMOC correction not applied

Report Date: 08-Jan-2015 14:31:19

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015001.d

Injection Date: 08-Jan-2015 12:02:40

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 14

Client ID:

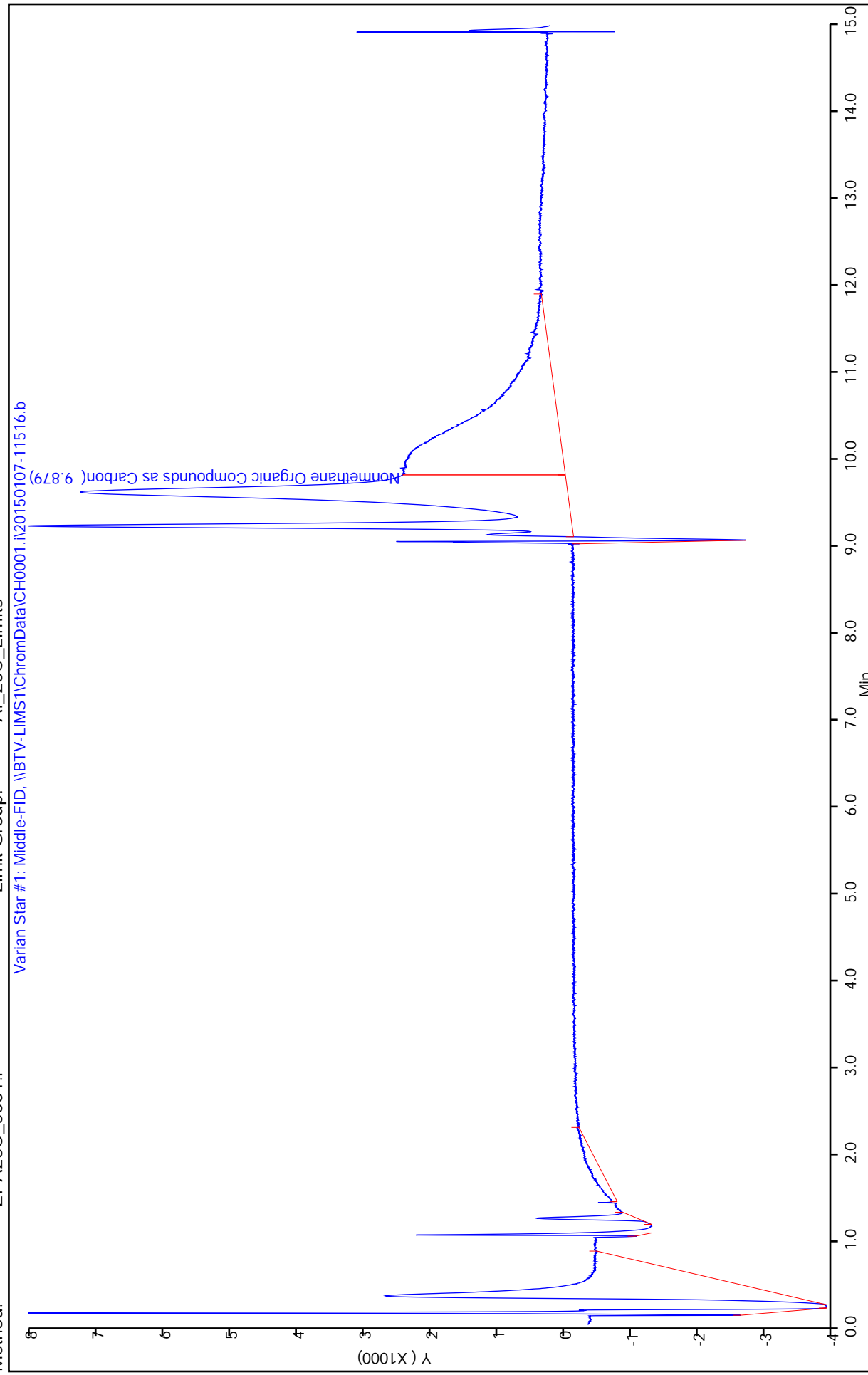
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:20

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001\20150107-11516.b\25cic1\_01082015002.d

Injection Date: 08-Jan-2015 12:18:33

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: IC

Worklist Smp#: 13

Client ID:

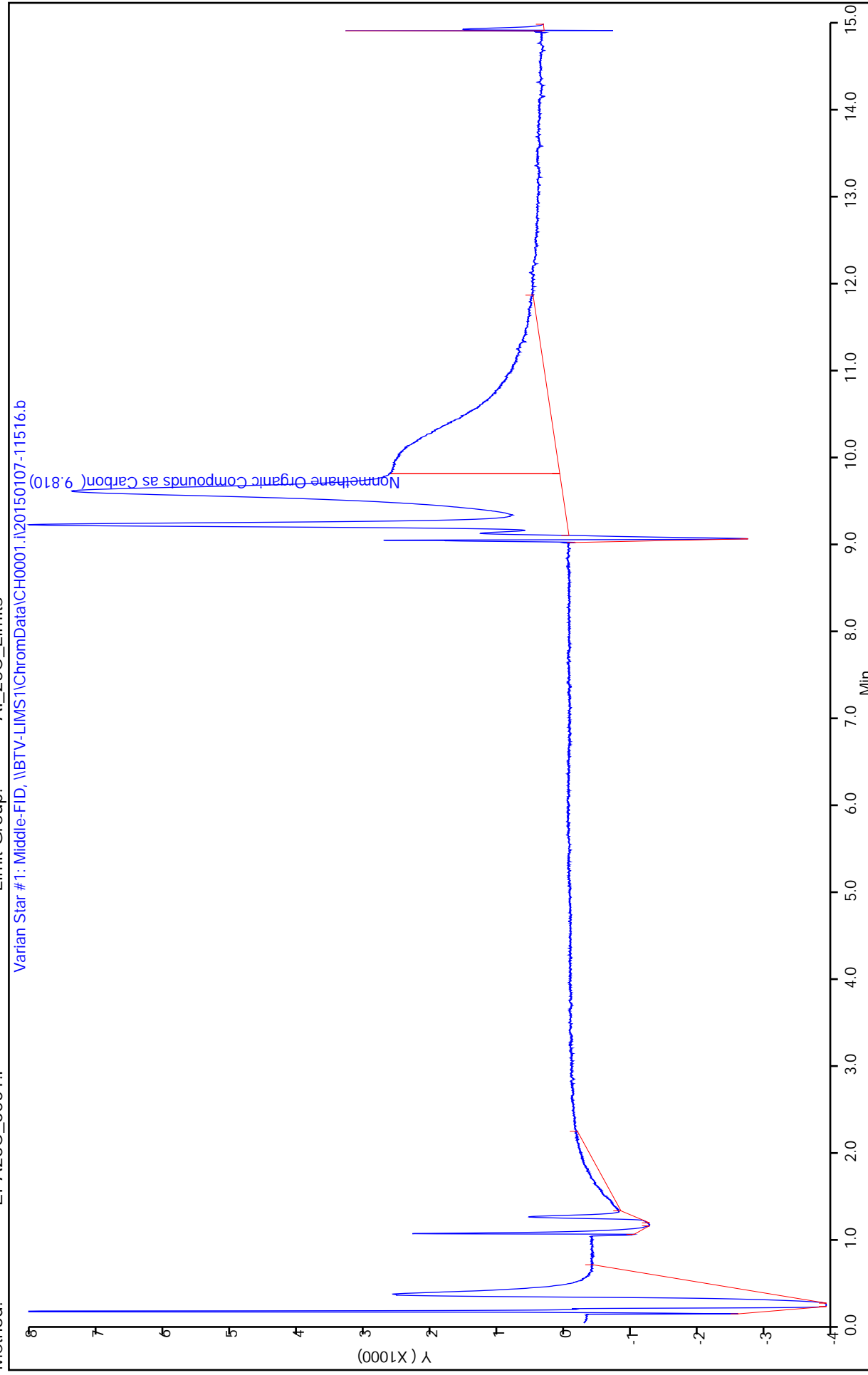
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:19

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015.d

Injection Date: 08-Jan-2015 11:46:49

Instrument ID: CH0001.i

Lims ID: IC

Operator ID: BPL

Worklist Smp#: 15

Client ID:

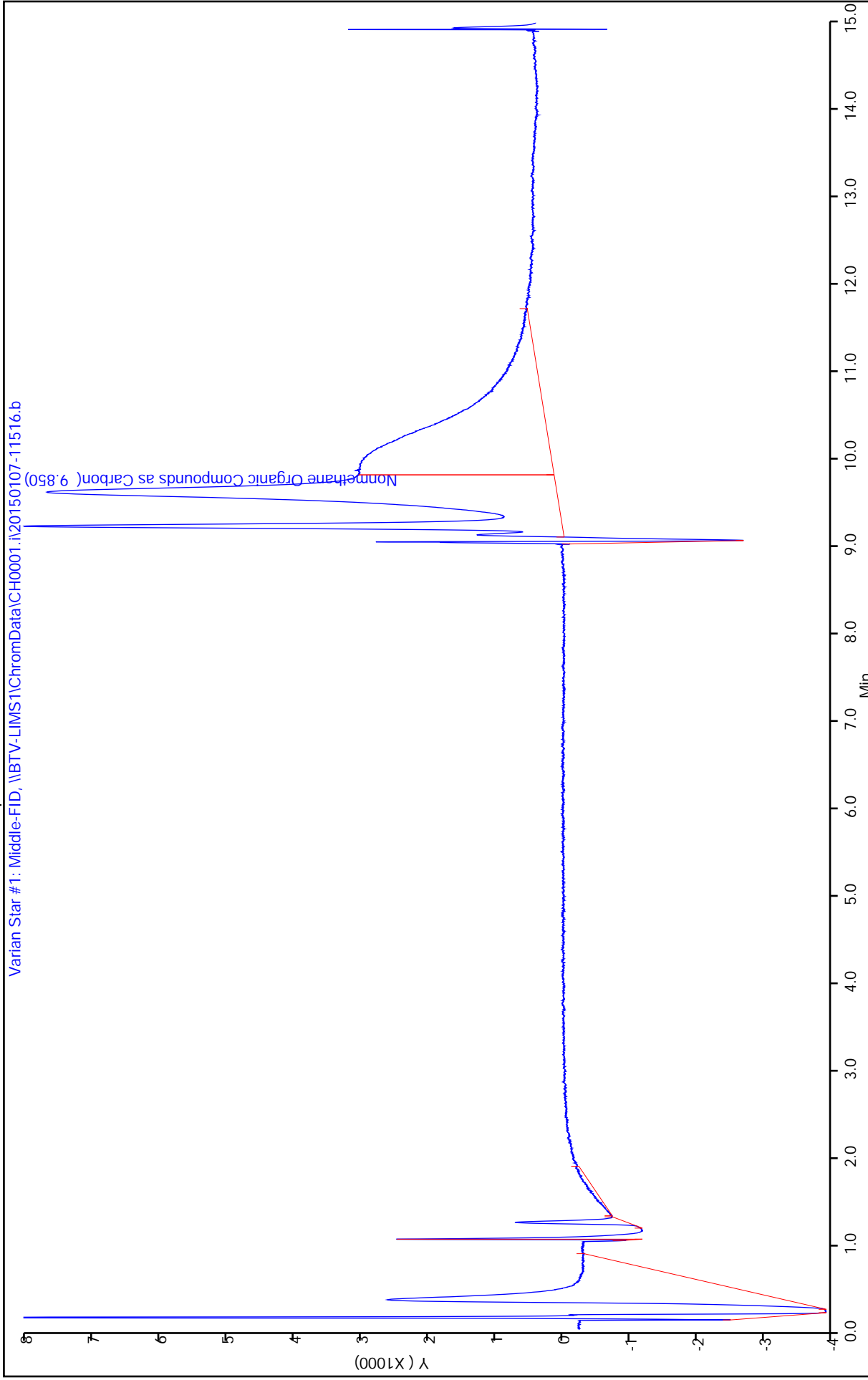
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



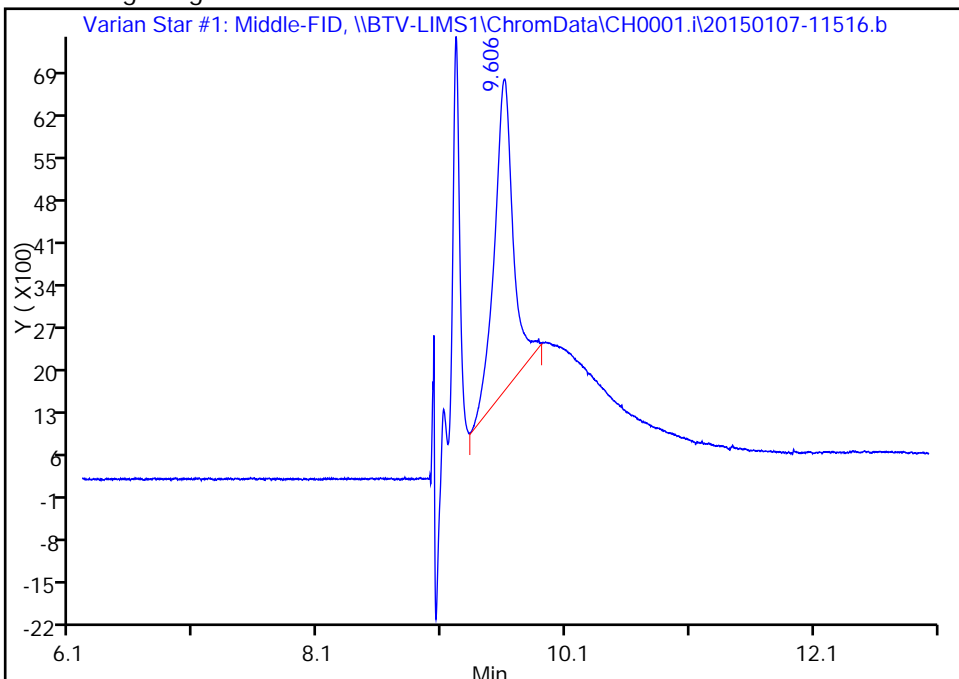
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015001.d  
Injection Date: 08-Jan-2015 12:02:40 Instrument ID: CH0001.i  
Lims ID: IC  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 14  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

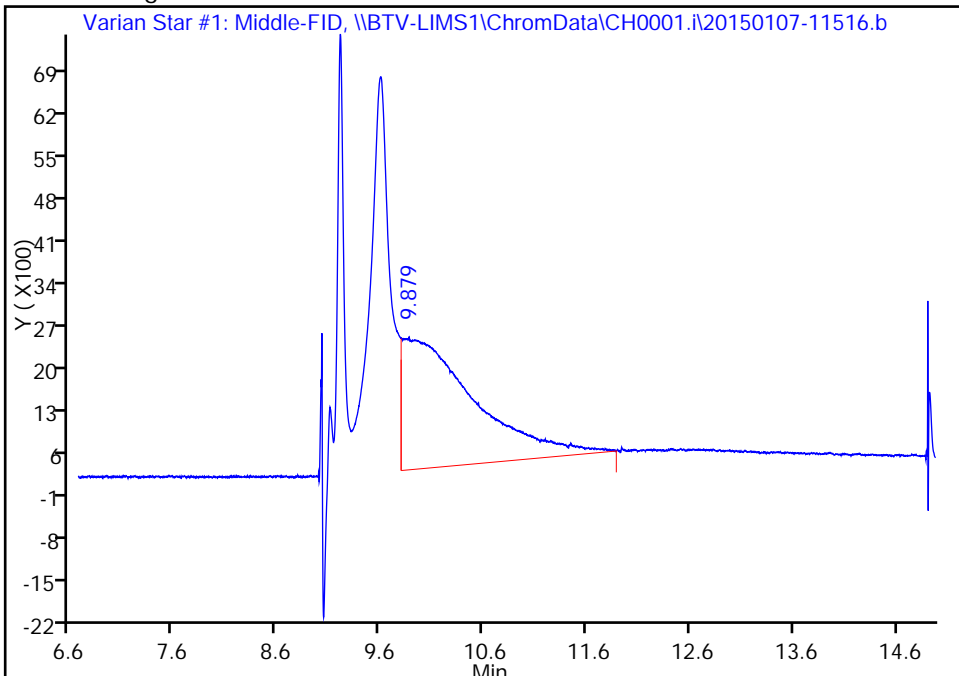
RT: 9.61  
Response: 53785  
Amount: 3.165508

Processing Integration Results



RT: 9.88  
Response: 104174  
Amount: 5.789060

Manual Integration Results



Reviewer: lyonsb, 08-Jan-2015 12:40:14  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline Event

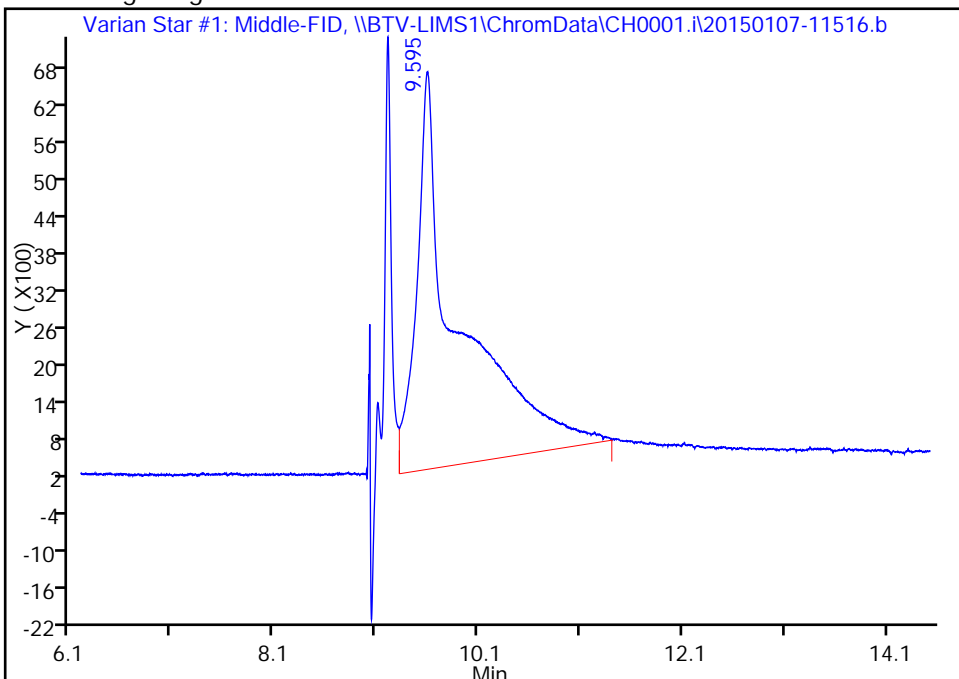
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
Injection Date: 08-Jan-2015 12:18:33 Instrument ID: CH0001.i  
Lims ID: IC  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 13  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

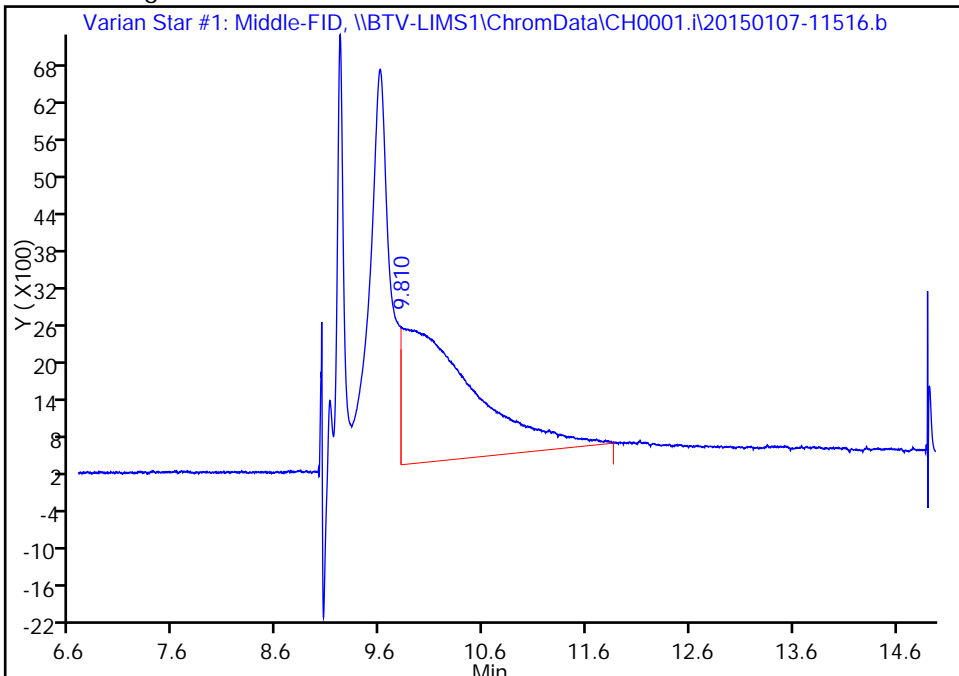
RT: 9.60  
Response: 183944  
Amount: 9.519636

Processing Integration Results



RT: 9.81  
Response: 105774  
Amount: 5.877974

Manual Integration Results



Reviewer: lyonsb, 08-Jan-2015 12:40:39  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline Event



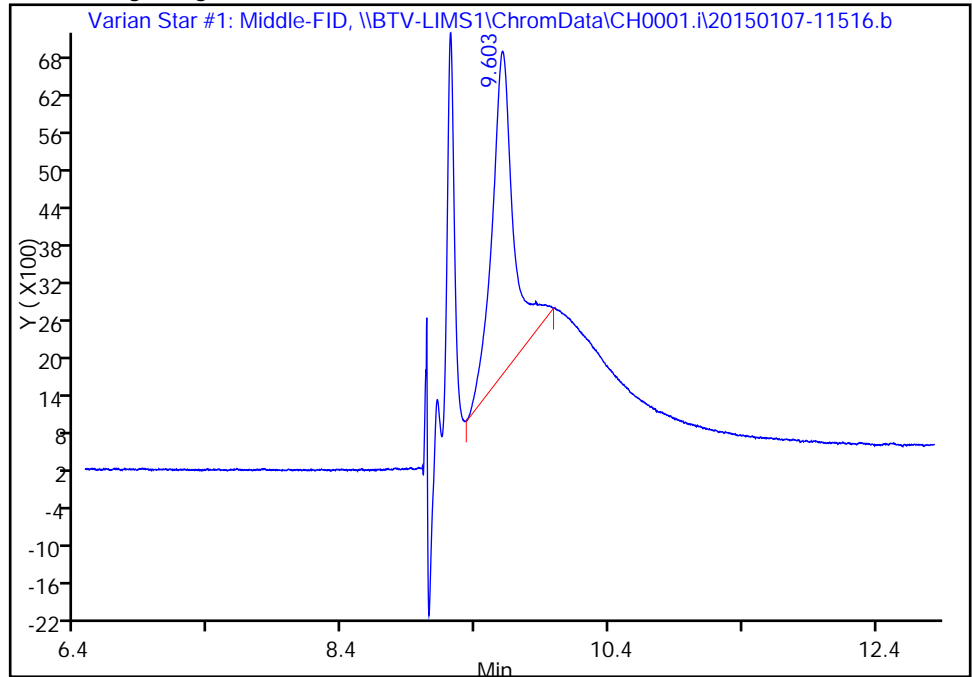
TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015.d  
Injection Date: 08-Jan-2015 11:46:49 Instrument ID: CH0001.i  
Lims ID: IC  
Client ID:  
Operator ID: BPL ALS Bottle#: 0 Worklist Smp#: 15  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

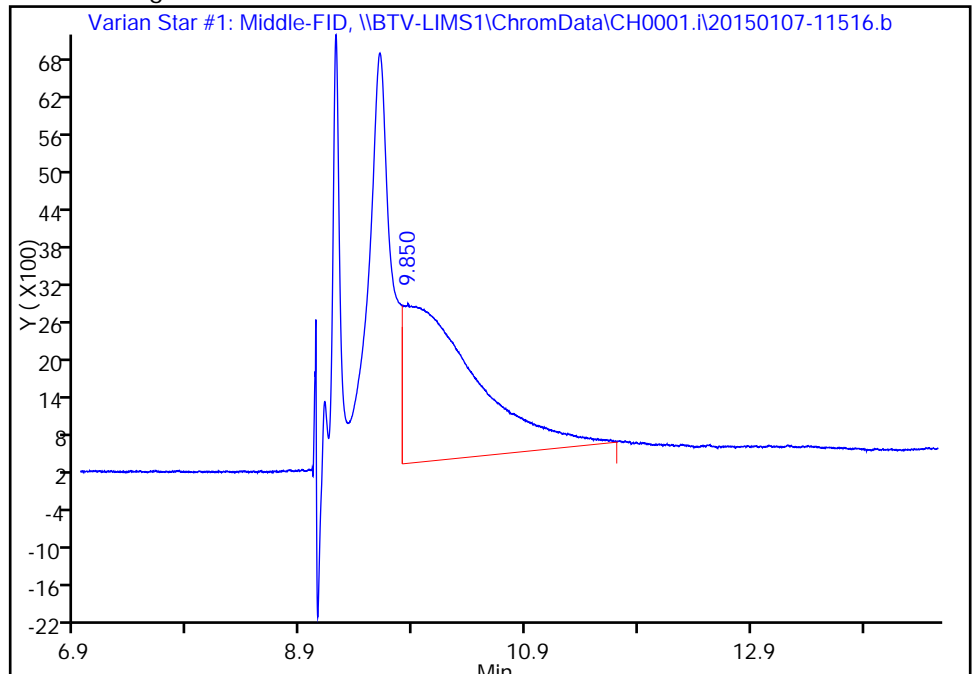
RT: 9.60  
Response: 57698  
Amount: 3.428454

Processing Integration Results



RT: 9.85  
Response: 112654  
Amount: 6.260303

Manual Integration Results



Reviewer: lyonsb, 08-Jan-2015 12:18:19  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline Event

FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab Sample ID: ICV 200-83144/4 Calibration Date: 01/08/2015 12:50  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cicv\_01082015001.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	17873		746	750	-0.7	30.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015001.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Jan-2015 12:50:16 ALS Bottle#: 0 Worklist Smp#: 11  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CICV\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.843	9.908	-0.065	13404422	750.0	744.9	

Reagents:

ATNMOCLCSw\_00045 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015002.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Jan-2015 13:06:08 ALS Bottle#: 0 Worklist Smp#: 12  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CICV\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:  
 Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	9.873	9.908	-0.035	13437154	750.0	746.7	

Reagents:

ATNMOCLCSw\_00045 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Jan-2015 12:34:24 ALS Bottle#: 0 Worklist Smp#: 10  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25CICV\_01072015  
 Operator ID: BPL Instrument ID: CH0001.i  
 Sublist:

Method: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 08-Jan-2015 14:31:19 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d

Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: lyonsb Date: 08-Jan-2015 13:12:30

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
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1 Nonmethane Organic Compoun	9.870	9.908	-0.038	13417165	750.0	745.6	
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Reagents:

ATNMOCLCSw\_00045 Amount Added: 2.00 Units: mL

Processing 25C data for files:

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cicv\_01082015001-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cicv\_01082015002-83087-a

\\corptalsapp05\200-bt-rawdata\organics\gc\ch0001-2hutch\25cicv\_01082015-83087-ai\_2

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13404422	13437154	13417165	13419580.33	0.12
Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	744.9	746.72	745.61	745.74	0.12

----- NMOC Correction-----  
NMOC correction not requested, NMOC correction not applied  
-----

Report Date: 08-Jan-2015 14:31:21

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015001.d

Injection Date: 08-Jan-2015 12:50:16

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ICV

Worklist Smp#: 11

Client ID:

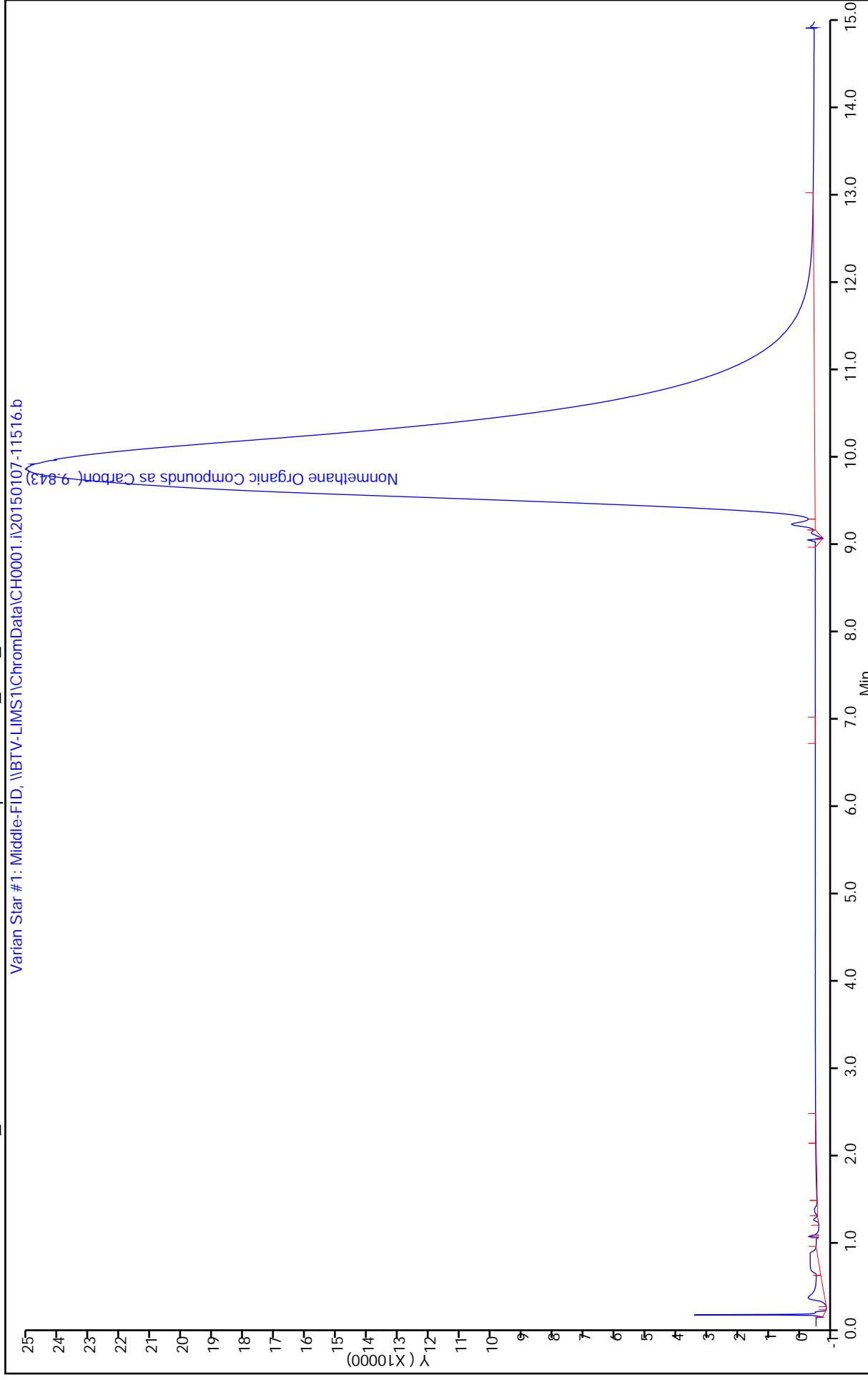
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 08-Jan-2015 14:31:21

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015002.d

Injection Date: 08-Jan-2015 13:06:08

Instrument ID: CH0001.i

Operator ID: BPL

Lims ID: ICV

Worklist Smp#: 12

Client ID:

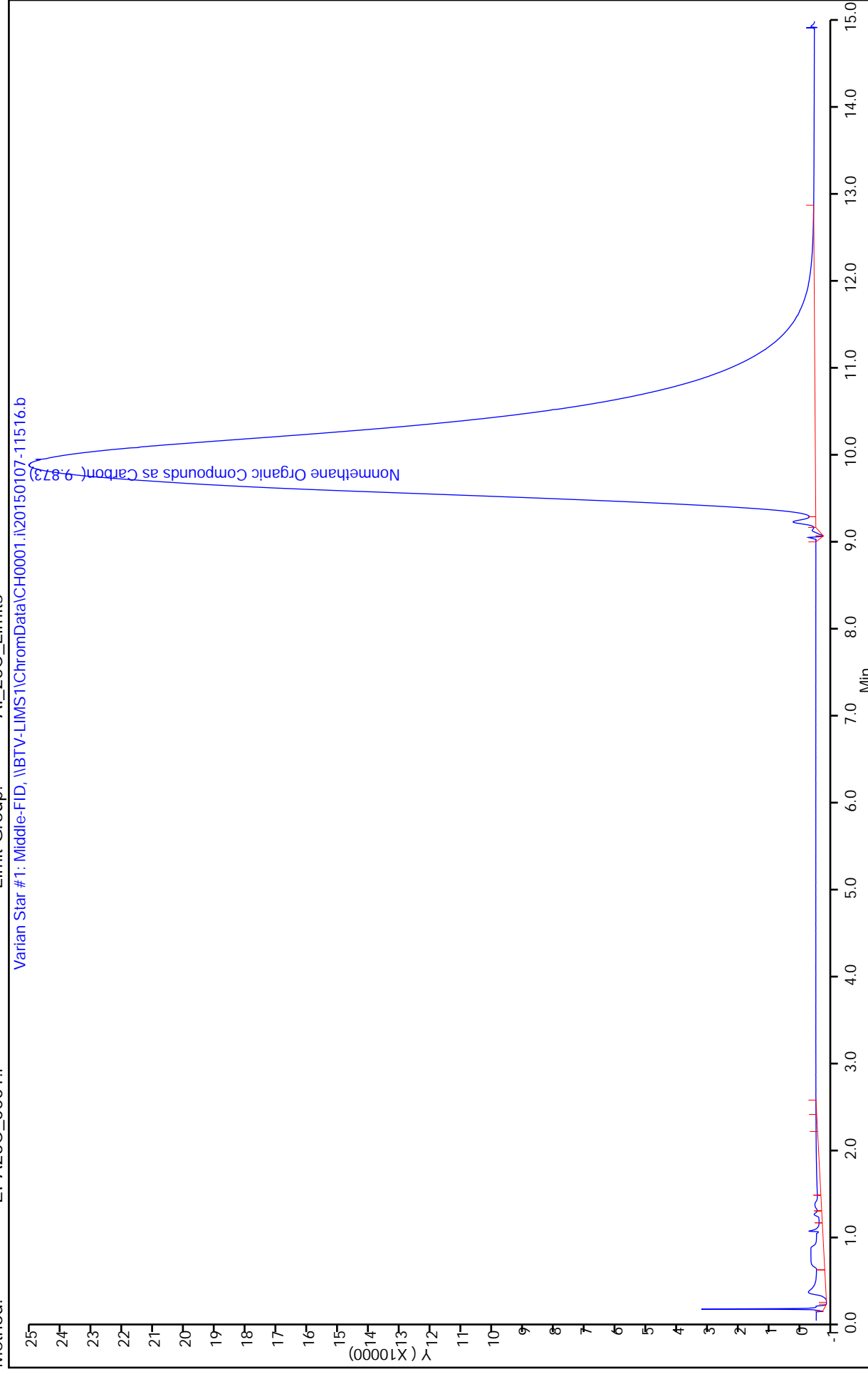
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





Report Date: 08-Jan-2015 14:31:20

Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Burlington

Data File: \\BTV-LIMS1\ChromData\CH0001.i\20150107-11516.b\25cicv\_01082015.d

Injection Date: 08-Jan-2015 12:34:24

Instrument ID: CH0001.i

Lims ID: ICV

Operator ID: BPL

Worklist Smp#: 10

Client ID:

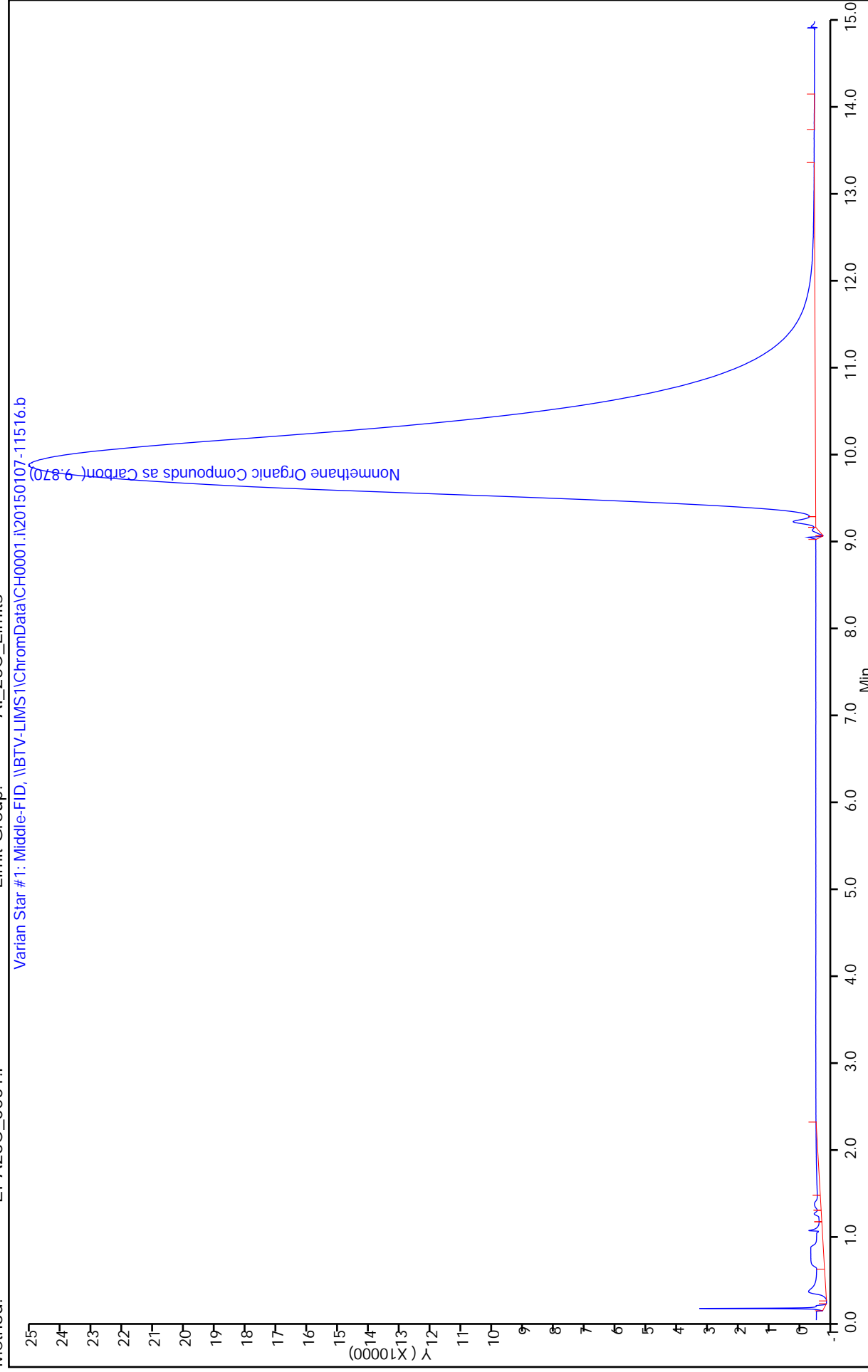
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab Sample ID: CCV 200-135246/1 Calibration Date: 10/08/2018 14:00  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccv201808a.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	16899		714	750	-6.1	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25cccv201808a.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 08-Oct-2018 14:00:44 ALS Bottle#: 0 Worklist Smp#: 1  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv201808a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:30 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.015	9.908	0.107	12673912	750.0	704.3	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25cccv201808b.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 08-Oct-2018 14:16:46 ALS Bottle#: 0 Worklist Smp#: 2  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv201808b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:31 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.033	9.908	0.125	12908393	750.0	717.3	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25cccv201808c.d  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 08-Oct-2018 14:32:48 ALS Bottle#: 0 Worklist Smp#: 3  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25cccv201808c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.040	9.908	0.132	12965707	750.0	720.5	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccv201808a-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccv201808b-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccv201808c-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12673912	12908393	12965707	12849337.33	1.37

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	704.3	717.33	720.52	714.05	1.37

Report Date: 15-Oct-2018 13:55:30

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25cccv201808a.d

Injection Date: 08-Oct-2018 14:00:44

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 1

Client ID:

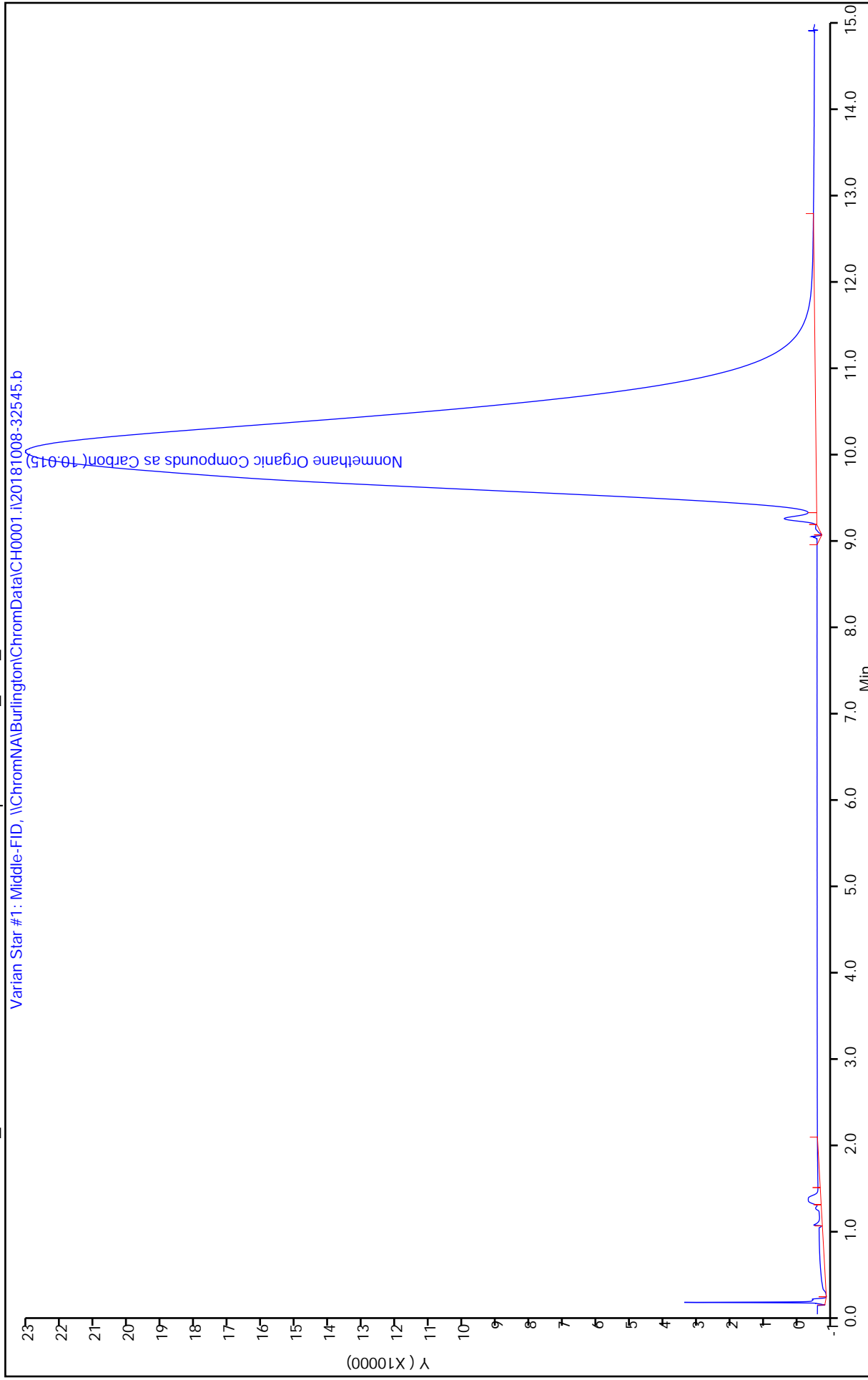
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25cccv201808b.d

Injection Date: 08-Oct-2018 14:16:46

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 2

Client ID:

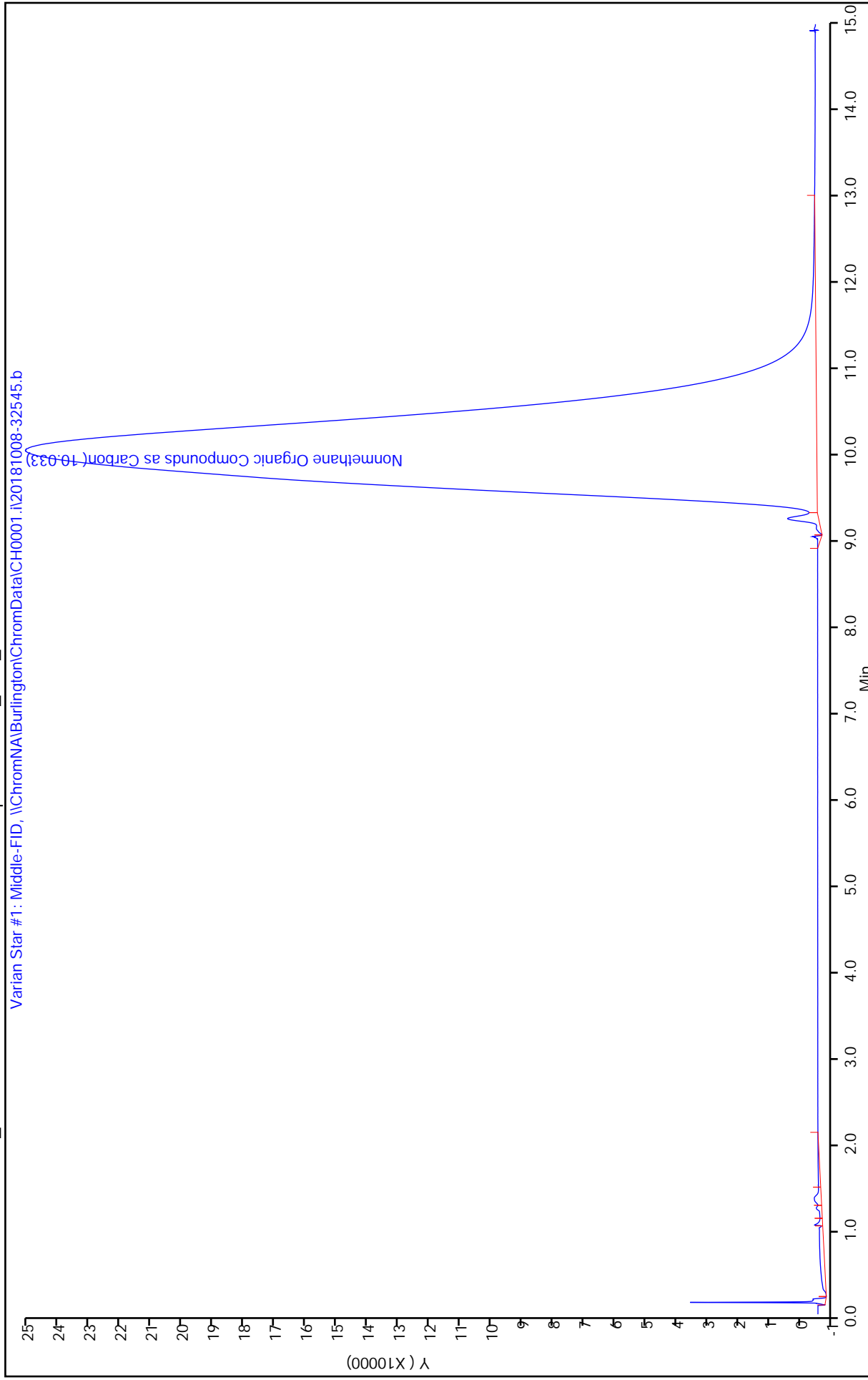
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





Report Date: 15-Oct-2018 13:55:32

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25cccv201808c.d

Injection Date: 08-Oct-2018 14:32:48

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccv

Worklist Smp#: 3

Client ID:

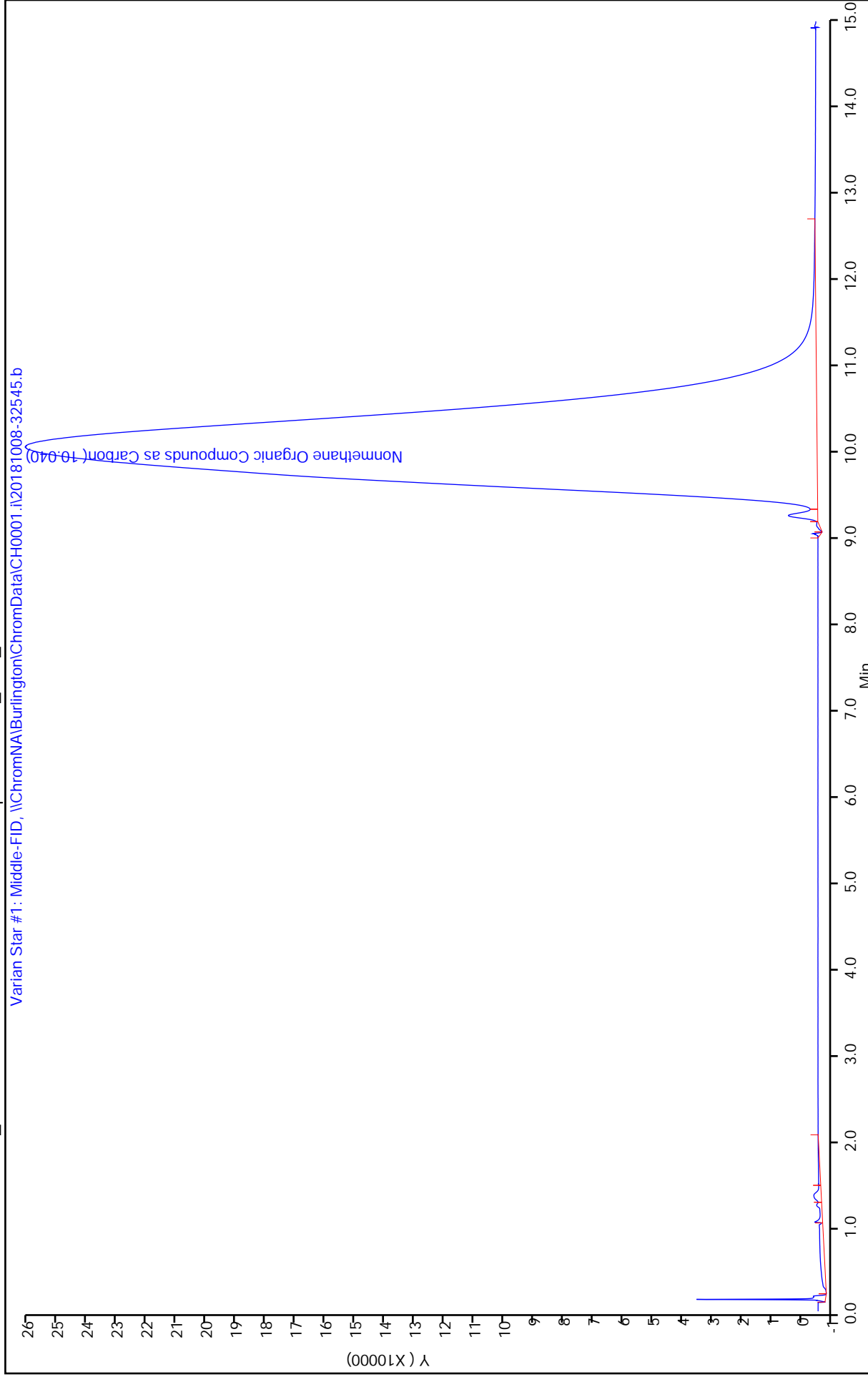
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM VII  
AIR - GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Lab Sample ID: CCVC 200-135246/16 Calibration Date: 10/09/2018 13:56  
 Instrument ID: CH0001.i Calib Start Date: 01/08/2015 10:26  
 GC Column: Carbo/Unibeads ID: 2.00 (mm) Calib End Date: 01/08/2015 12:02  
 Lab File ID: 25cccvc20181009a.d-avg Conc. Units: ppm-C Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
NMOC as Carbon - Uncorrected	Ave	17995	17494		729	750	-2.8	10.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25ccvc20181009a.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 09-Oct-2018 13:56:07 ALS Bottle#: 0 Worklist Smp#: 46  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181009a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:13 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.070	9.908	0.162	13029719	750.0	724.1	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25ccvc20181009b.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 09-Oct-2018 14:12:12 ALS Bottle#: 0 Worklist Smp#: 47  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181009b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:14 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.055	9.908	0.147	13088227	750.0	727.3	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25ccvc20181009c.d  
 Lims ID: ccvc  
 Client ID:  
 Sample Type: CCVC  
 Inject. Date: 09-Oct-2018 14:28:14 ALS Bottle#: 0 Worklist Smp#: 48  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25ccvc20181009c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Sublist: chrom-EPA25C\_0001.i\*sub1  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:56:15 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.057	9.908	0.149	13242573	750.0	735.9	

Reagents:

ATNMOCCCVw\_00055 Amount Added: 2.00 Units: mL

Processing 25C data for files:

z:\ch0001-2hutch\25cccvc20181009a-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181009b-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25cccvc20181009c-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	13029719	13088227	13242573	13120173	0.93

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	724.08	727.33	735.9	729.1	0.93

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25ccvc20181009a.d

Injection Date: 09-Oct-2018 13:56:07

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 46

Client ID:

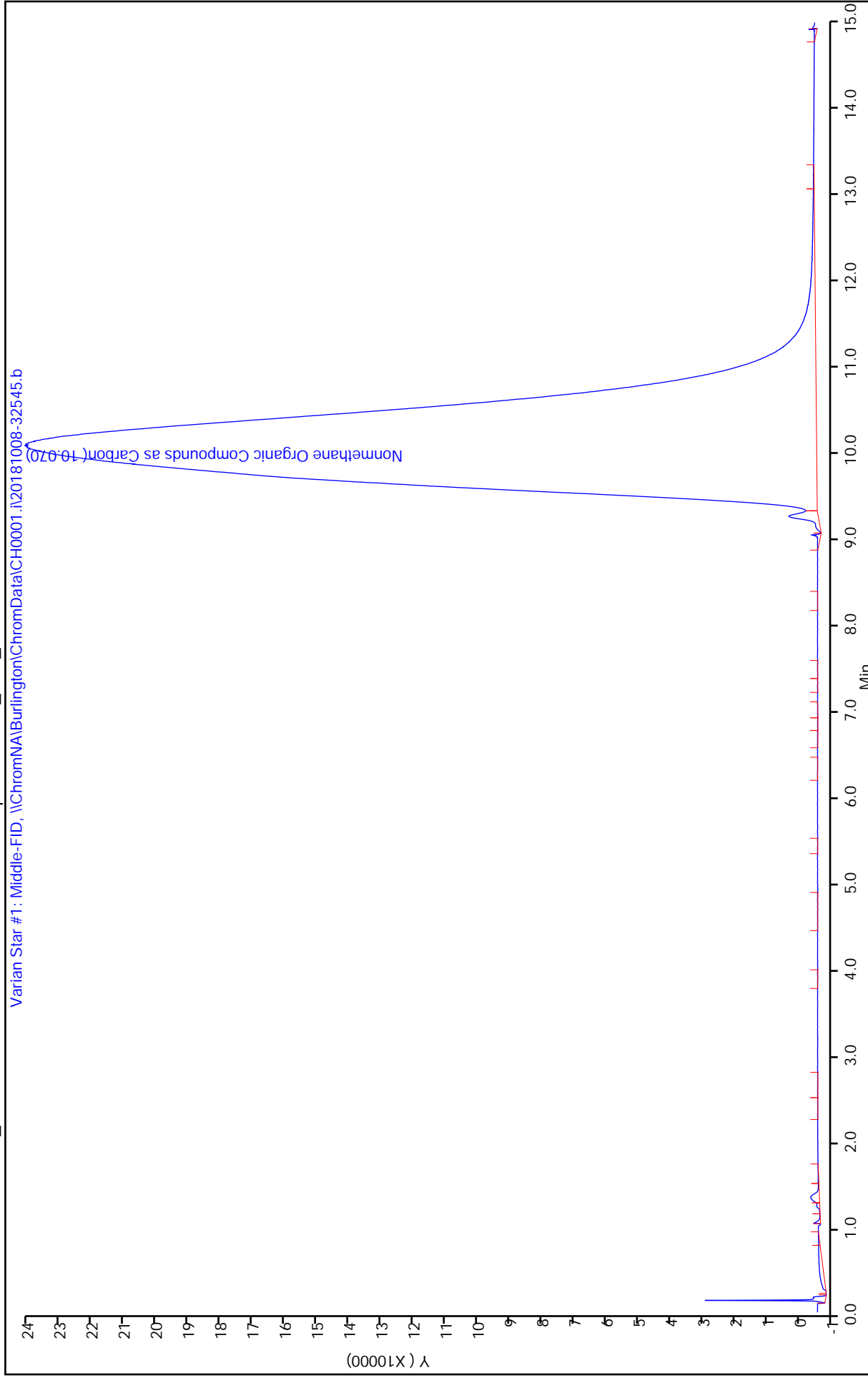
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:56:14

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25ccvc20181009b.d

Injection Date: 09-Oct-2018 14:12:12

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 47

Client ID:

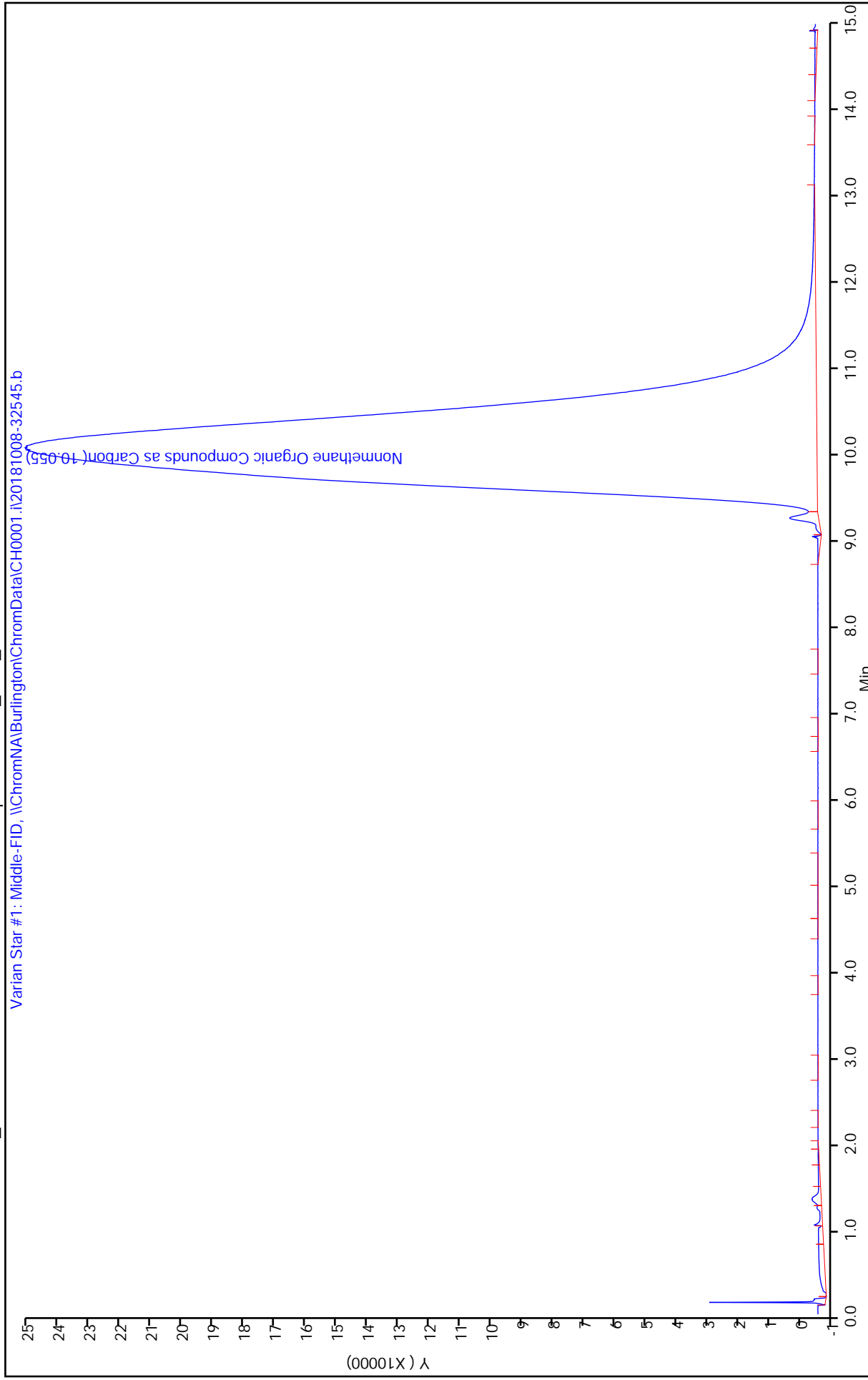
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





Report Date: 15-Oct-2018 13:56:15

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25ccvcv20181009c.d

Injection Date: 09-Oct-2018 14:28:14

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: ccvc

Worklist Smp#: 48

Client ID:

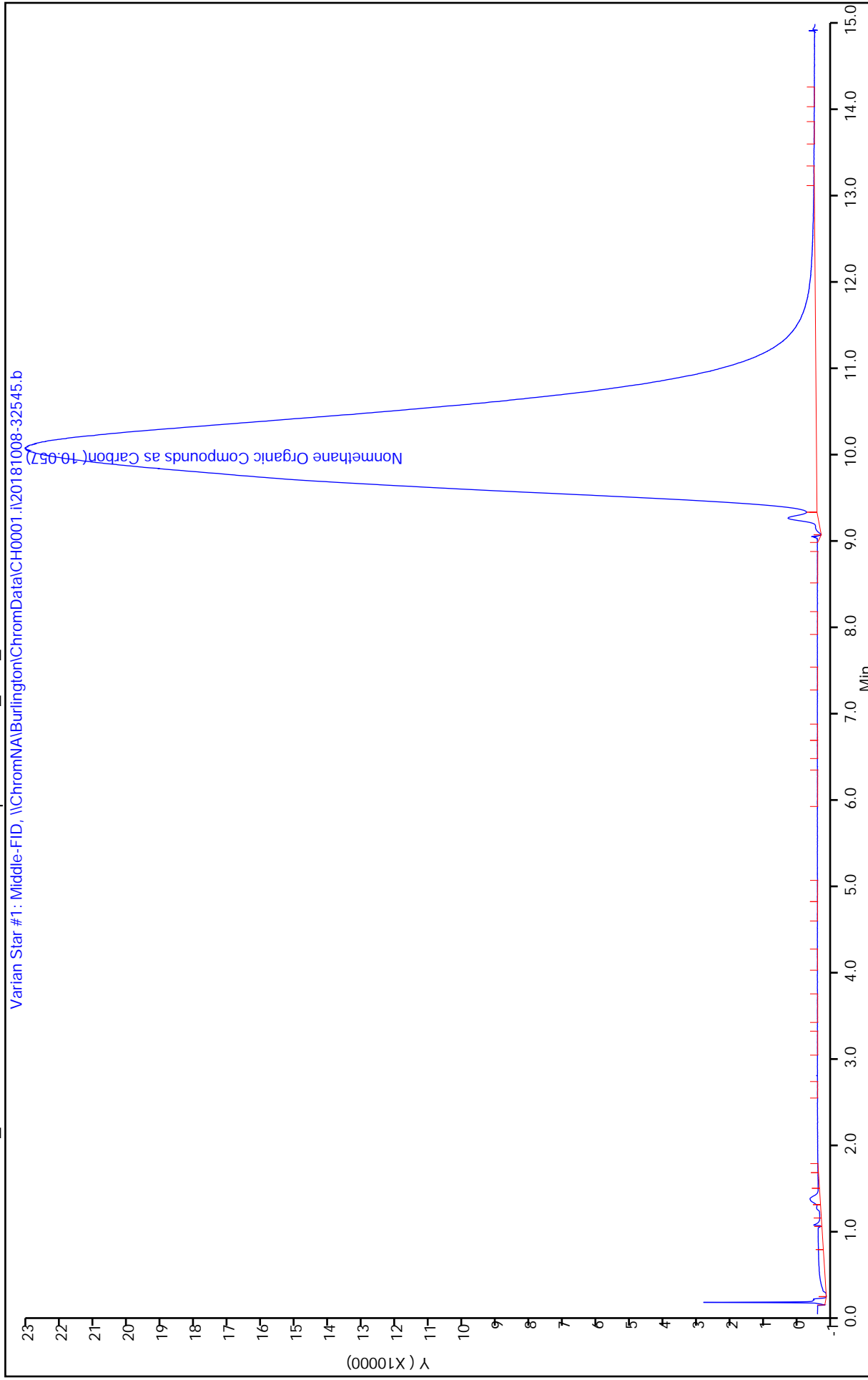
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-135246/3  
 Matrix: Air Lab File ID: mb20181008a.d-avg  
 Analysis Method: EPA 25C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/08/2018 18:00  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135246 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	6.0	U	6.0	6.0

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008a.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 08-Oct-2018 18:00:58 ALS Bottle#: 0 Worklist Smp#: 7  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181008a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:25:15

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.240	9.908	0.332	10014		0.5565	7Ma

**QC Flag Legend**

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008b.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 08-Oct-2018 18:17:00 ALS Bottle#: 0 Worklist Smp#: 8  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181008b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:25:36

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.343	9.908	0.435	11994		0.6665	Ma

**QC Flag Legend**

Review Flags

- M - Manually Integrated
- a - User Assigned ID

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008c.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 08-Oct-2018 18:33:05 ALS Bottle#: 0 Worklist Smp#: 9  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: mb20181008c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

First Level Reviewer: desjardinsb Date: 15-Oct-2018 13:27:23

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.327	9.908	0.419	13809		0.7674	M

**QC Flag Legend**

Review Flags

M - Manually Integrated

Processing 25C data for files:

z:\ch0001-2hutch\mb20181008a-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\mb20181008b-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\mb20181008c-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

-----  
Analyte Resp1 Resp2 Resp3 Avg Resp RSD  
Nonmethane Orga 10014 11994 13809 11939 16.12\*  
\* - RSD exceeds maximum RSD of 5  
-----

-----  
Analyte Conc1 Conc2 Conc3 Avg Conc RSD  
Nonmethane Orga 0.56 0.67 0.77 0.66 16.12\*  
\* - RSD exceeds maximum RSD of 5  
-----

Report Date: 15-Oct-2018 13:55:36

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008a.d

Injection Date: 08-Oct-2018 18:00:58

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 7

Client ID:

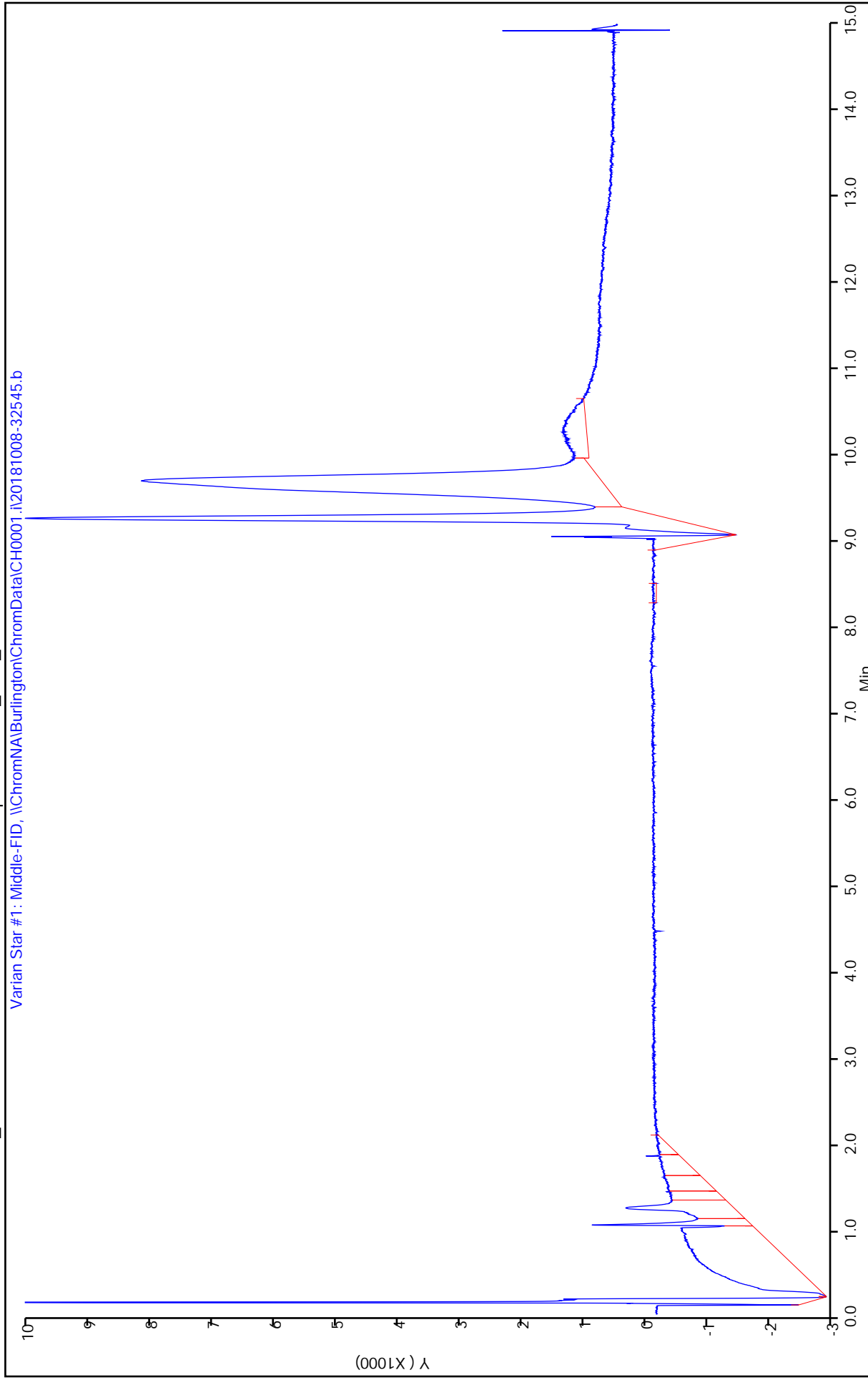
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:55:37

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008b.d

Injection Date: 08-Oct-2018 18:17:00

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 8

Client ID:

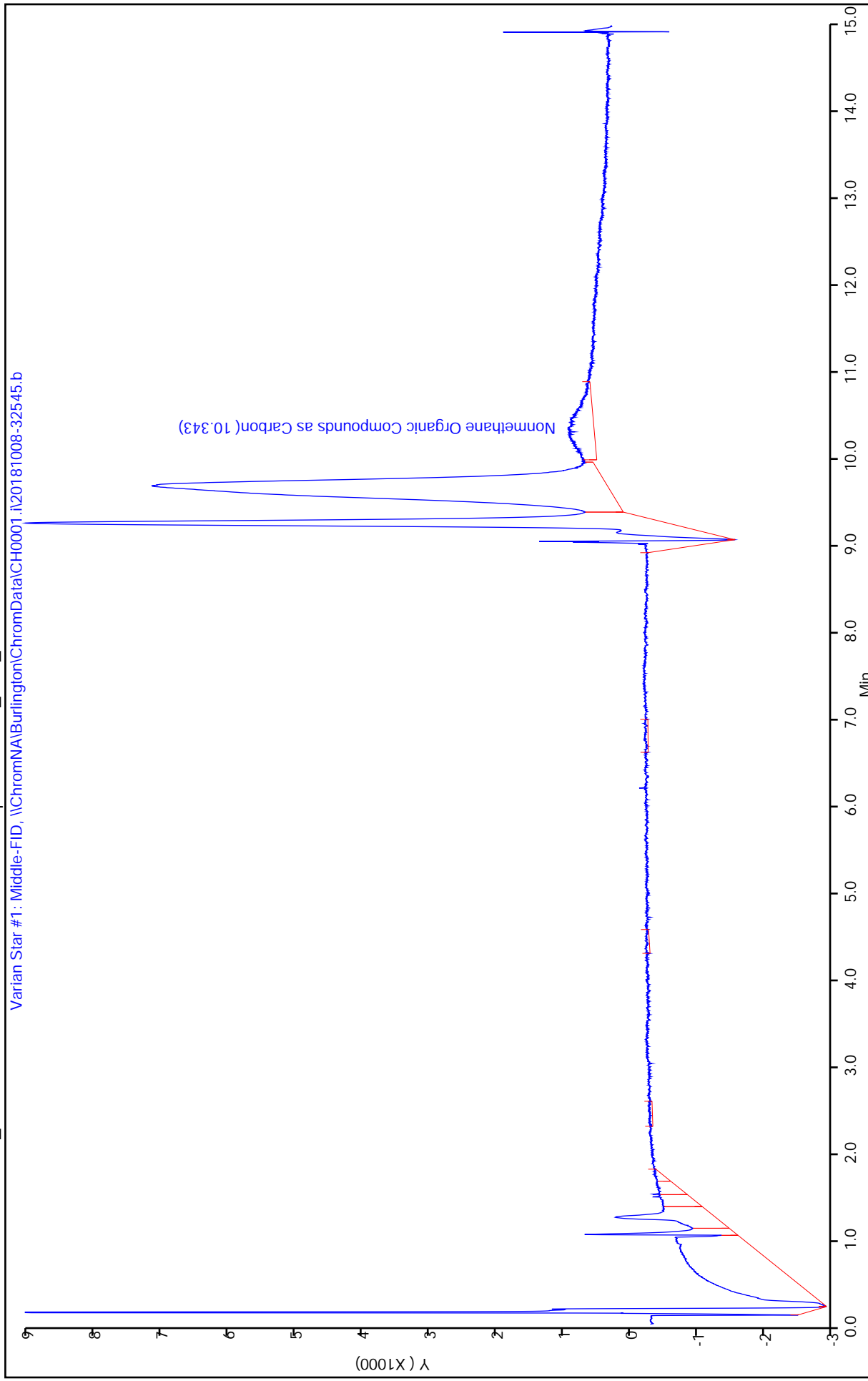
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits





Report Date: 15-Oct-2018 13:55:38

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008c.d

Injection Date: 08-Oct-2018 18:33:05

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: mb

Worklist Smp#: 9

Client ID:

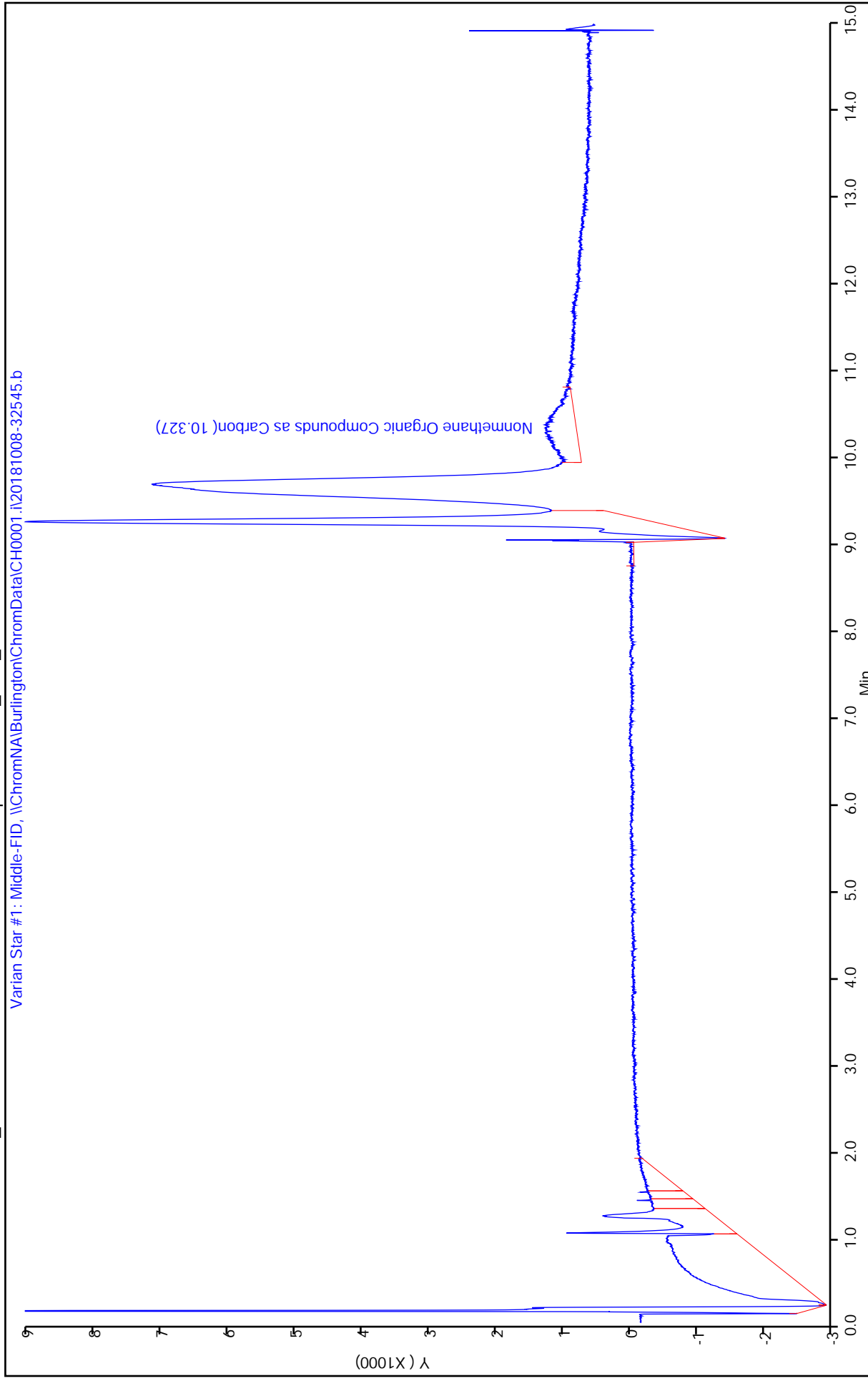
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

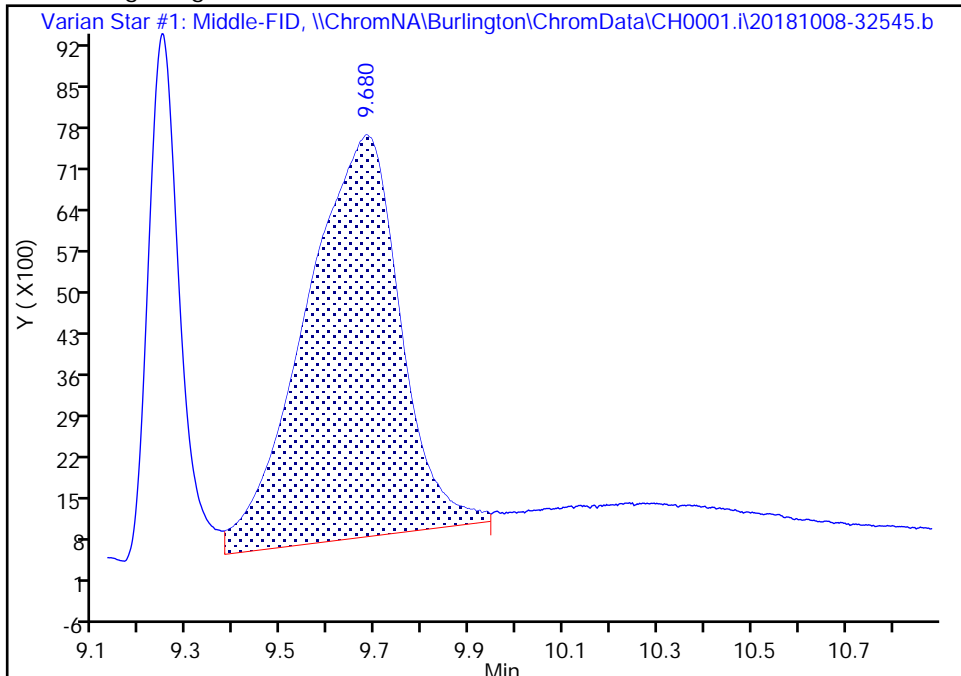
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008a.d  
Injection Date: 08-Oct-2018 18:00:58 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 7  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

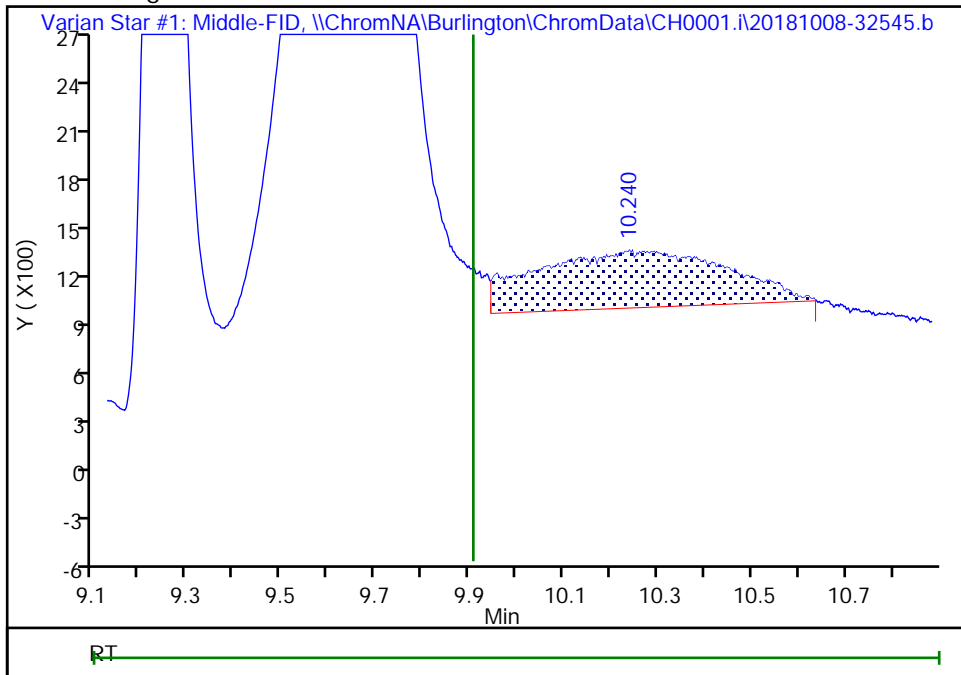
RT: 9.68  
Area: 96720  
Amount: 5.374833  
Amount Units: ppm-C

Processing Integration Results



RT: 10.24  
Area: 10014  
Amount: 0.556489  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:25:13

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Burlington

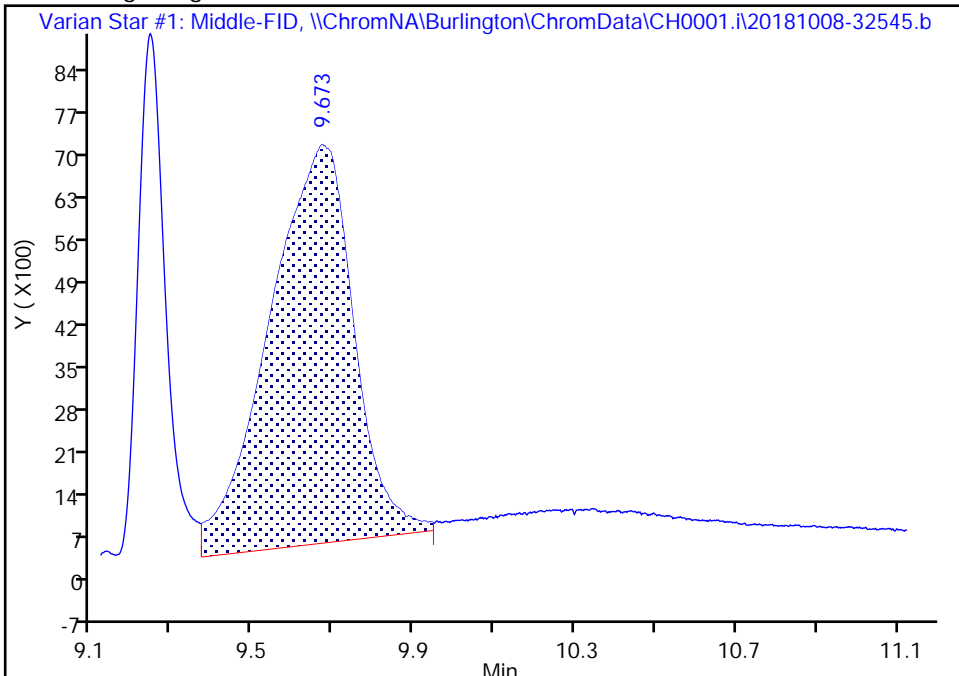
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008b.d  
Injection Date: 08-Oct-2018 18:17:00 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 8  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

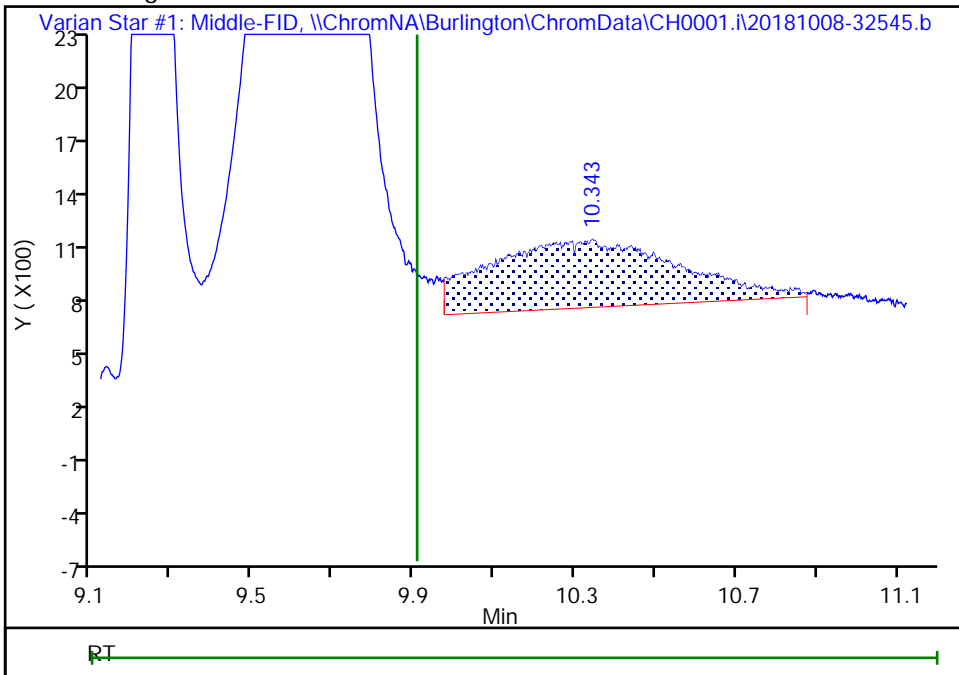
RT: 9.67  
Area: 95495  
Amount: 5.306759  
Amount Units: ppm-C

Processing Integration Results



RT: 10.34  
Area: 11994  
Amount: 0.666519  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:25:34

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Baseline Smoothing

TestAmerica Burlington

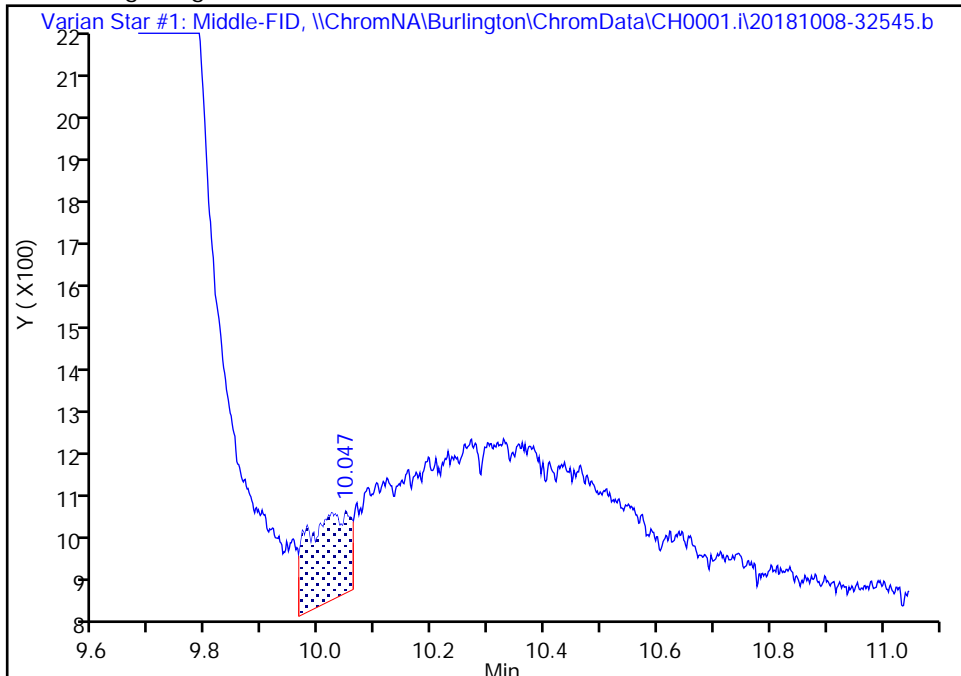
Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\mb20181008c.d  
Injection Date: 08-Oct-2018 18:33:05 Instrument ID: CH0001.i  
Lims ID: mb  
Client ID:  
Operator ID: WRD ALS Bottle#: 0 Worklist Smp#: 9  
Purge Vol: 2.000 mL Dil. Factor: 1.0000  
Method: EPA25C\_0001.i Limit Group: AI\_25C\_Limits  
Column: Detector Varian Star #1: Middle-FID

1 Nonmethane Organic Compounds as Carbon, CAS: STL00589

Signal: 1

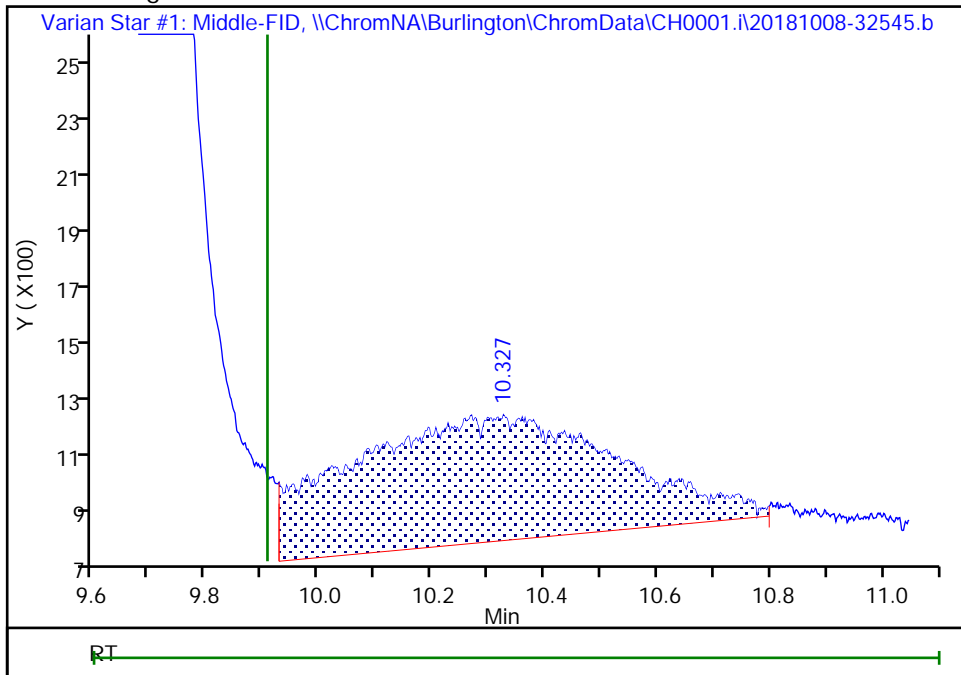
RT: 10.05  
Area: 1026  
Amount: 0.057016  
Amount Units: ppm-C

Processing Integration Results



RT: 10.33  
Area: 13809  
Amount: 0.767381  
Amount Units: ppm-C

Manual Integration Results



Reviewer: desjardinsb, 15-Oct-2018 13:25:49  
Audit Action: Manually Integrated

FORM I  
AIR - GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1  
 SDG No.: 200-45504-1  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-135246/2  
 Matrix: Air Lab File ID: 25clcs201808a.d-avg  
 Analysis Method: EPA 25C Date Collected: \_\_\_\_\_  
 Sample wt/vol: 2 (mL) Date Analyzed: 10/08/2018 17:12  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: Carbo/Unibeads ID: 2 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 135246 Units: ppm-C

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00589	NMOC as Carbon - Uncorrected	720		6.0	6.0

TestAmerica Burlington  
 Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25clcs201808a.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 08-Oct-2018 17:12:25 ALS Bottle#: 0 Worklist Smp#: 4  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs201808a  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.065	9.908	0.157	12724514	750.0	707.1	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25clcs201808b.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 08-Oct-2018 17:28:28 ALS Bottle#: 0 Worklist Smp#: 5  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs201808b  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.062	9.908	0.154	13080148	750.0	726.9	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL

TestAmerica Burlington  
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\25clcs201808c.d  
 Lims ID: lcs  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 08-Oct-2018 17:44:53 ALS Bottle#: 0 Worklist Smp#: 6  
 Purge Vol: 2.000 mL Dil. Factor: 1.0000  
 Sample Info: 25clcs201808c  
 Operator ID: WRD Instrument ID: CH0001.i  
 Method: \\ChromNA\Burlington\ChromData\CH0001.i\20181008-32545.b\EPA25C\_0001.i.m  
 Limit Group: AI\_25C\_Limits  
 Last Update: 15-Oct-2018 13:55:32 Calib Date: 08-Jan-2015 12:18:33  
 Integrator: Falcon  
 Quant Method: External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CH0001.i\20150107-11516.b\25cic1\_01082015002.d  
 Column 1 : Det: Varian Star #1: Middle-FID  
 Process Host: XAWRK047

Compound	RT (min.)	Exp RT (min.)	Dit RT (min.)	Response	Cal Amt ppm-C	OnCol Amt ppm-C	Flags
1 Nonmethane Organic Compoun	10.063	9.908	0.155	13076112	750.0	726.7	

Reagents:

ATNMOCLCSw\_00061 Amount Added: 2.00 Units: mL



Processing 25C data for files:

z:\ch0001-2hutch\25clcs201808a-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25clcs201808b-134975-ai\_25c\_limits-0.txt

z:\ch0001-2hutch\25clcs201808c-134975-ai\_25c\_limits-0.txt

Raw Results - NMOC

Analyte	Resp1	Resp2	Resp3	Avg Resp	RSD
Nonmethane Orga	12724514	13080148	13076112	12960258	1.82

Analyte	Conc1	Conc2	Conc3	Avg Conc	RSD
Nonmethane Orga	707.11	726.88	726.65	720.22	1.82

Report Date: 15-Oct-2018 13:55:33

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25clcs201808a.d

Injection Date: 08-Oct-2018 17:12:25

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 4

Client ID:

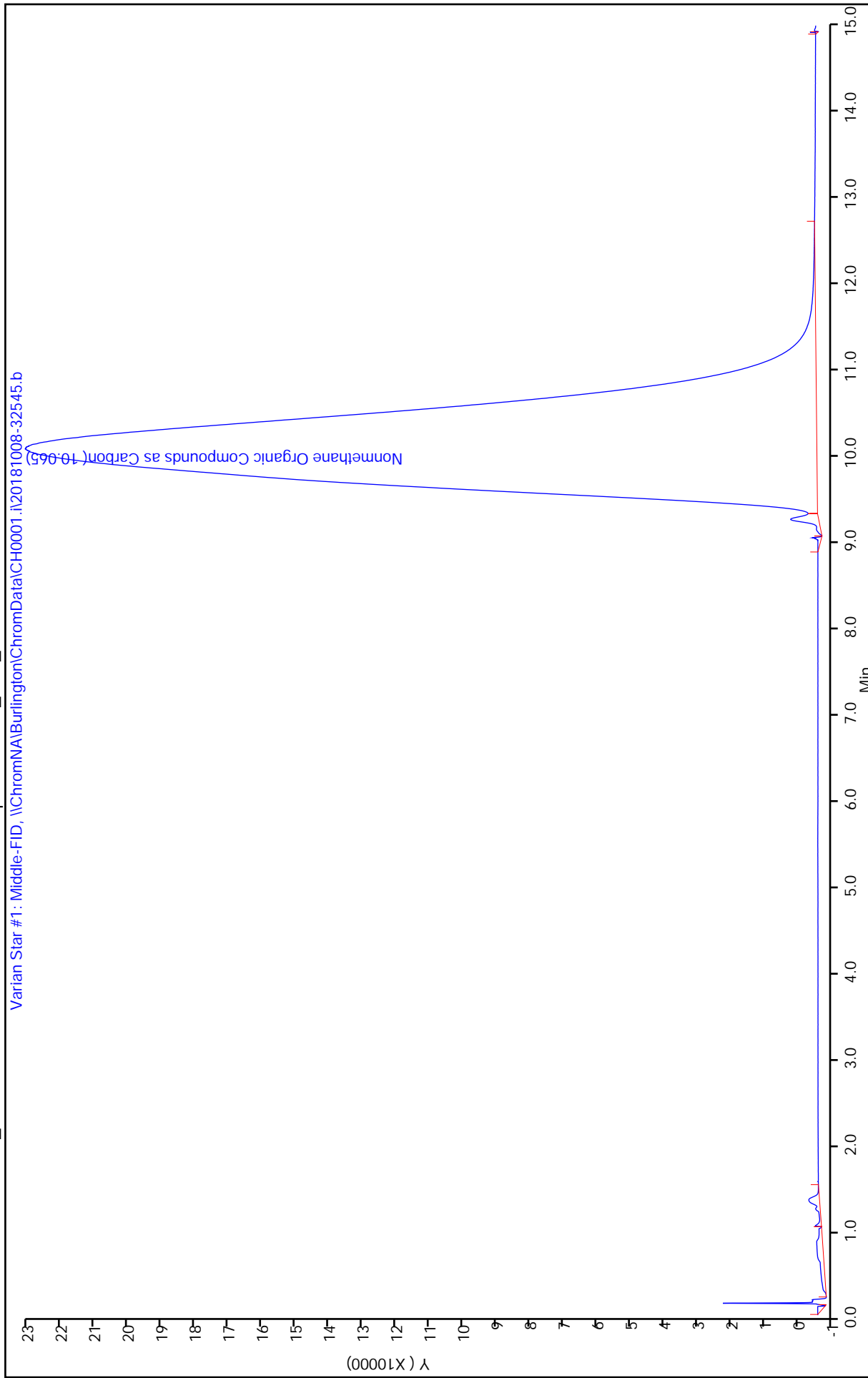
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25clcs201808b.d

Injection Date: 08-Oct-2018 17:28:28

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 5

Client ID:

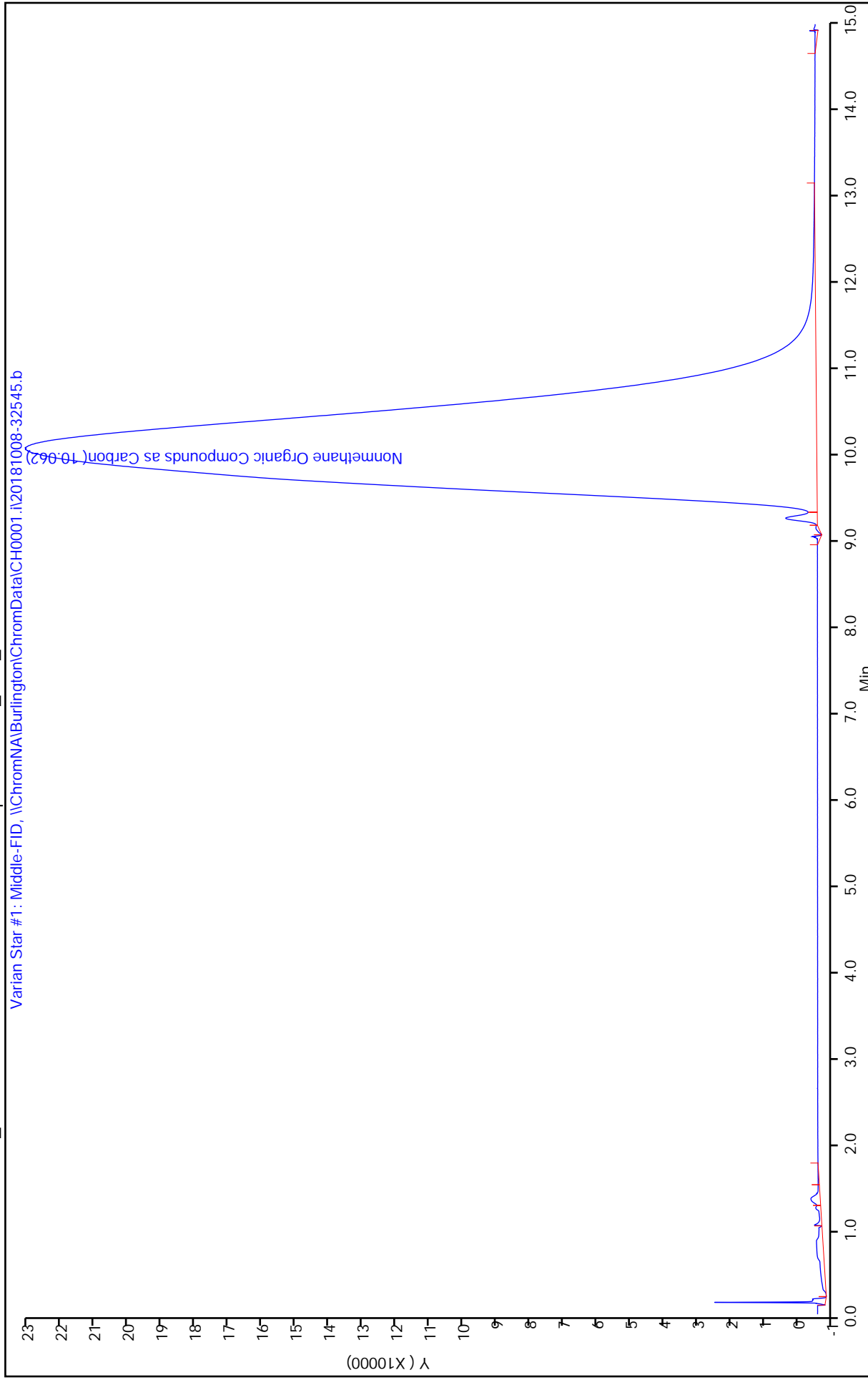
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



Report Date: 15-Oct-2018 13:55:35

Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Burlington

Data File: \\ChromNA1\Burlington\ChromData\CH0001.i\20181008-32545.b\25clcs201808c.d

Injection Date: 08-Oct-2018 17:44:53

Instrument ID: CH0001.i

Operator ID: WRD

Lims ID: lcs

Worklist Smp#: 6

Client ID:

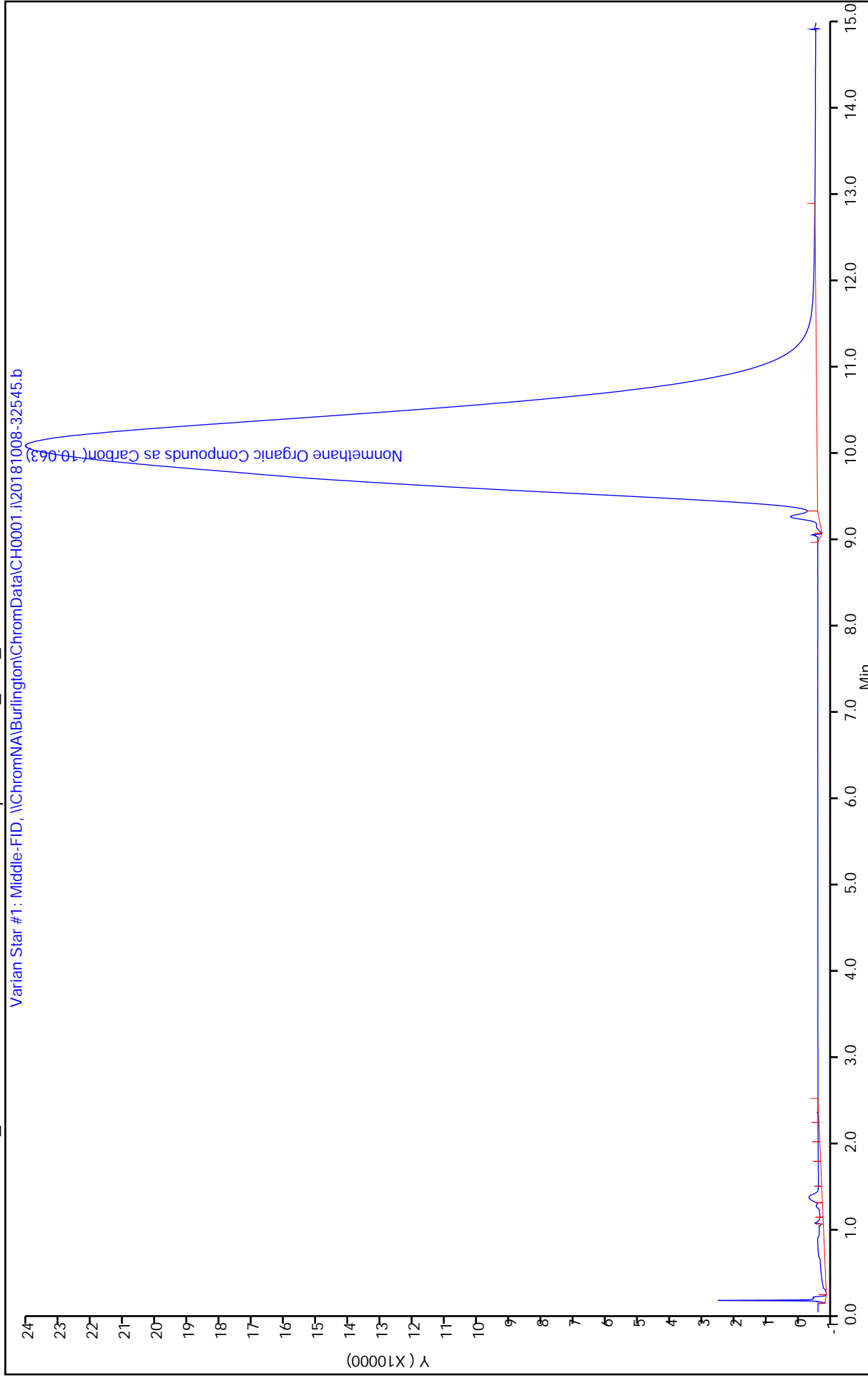
Purge Vol: 2.000 mL

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: EPA25C\_0001.i

Limit Group: AI\_25C\_Limits



AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Start Date: 01/08/2015 10:26

Analysis Batch Number: 83144 End Date: 01/08/2015 12:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICRT 200-83144/1		01/08/2015 10:26	1	25cic2_01072015 001.d-avg	Carbo/Unibeads 2 (mm)
IC 200-83144/2		01/08/2015 11:14	1	25cic3_01072015 001.d-avg	Carbo/Unibeads 2 (mm)
IC 200-83144/3		01/08/2015 12:02	1	25cic1_01082015 001.d-avg	Carbo/Unibeads 2 (mm)
ICV 200-83144/4		01/08/2015 12:50	1	25cicv_01082015 001.d-avg	Carbo/Unibeads 2 (mm)

AIR - GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Instrument ID: CH0001.i Start Date: 10/08/2018 14:00

Analysis Batch Number: 135246 End Date: 10/09/2018 13:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-135246/1		10/08/2018 14:00	1	25cccv201808a.d-avg	Carbo/Unibeads 2 (mm)
LCS 200-135246/2		10/08/2018 17:12	1	25clcs201808a.d-avg	Carbo/Unibeads 2 (mm)
MB 200-135246/3		10/08/2018 18:00	1	mb20181008a.d-avg	Carbo/Unibeads 2 (mm)
ZZZZZ		10/08/2018 19:53	2.5		Carbo/Unibeads 2 (mm)
200-45504-1		10/08/2018 20:57	1.9	200-45504-a-1f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-2		10/08/2018 22:01	1.97	200-45504-a-2f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-3		10/08/2018 23:06	1.97	200-45504-a-3f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-4		10/09/2018 00:11	4.97	200-45504-a-4f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-5		10/09/2018 01:19	5.11	200-45504-a-5f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-6		10/09/2018 02:25	5.14	200-45504-a-6f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-7		10/09/2018 03:29	4.69	200-45504-a-7f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-8		10/09/2018 04:33	5.62	200-45504-a-8f.d-avg	Carbo/Unibeads 2 (mm)
200-45504-9		10/09/2018 05:38	4.8	200-45504-a-9f.d-avg	Carbo/Unibeads 2 (mm)
ZZZZZ		10/09/2018 09:15	4.29		Carbo/Unibeads 2 (mm)
ZZZZZ		10/09/2018 11:32	3.98		Carbo/Unibeads 2 (mm)
CCVC 200-135246/16		10/09/2018 13:56	1	25ccvc20181009a.d-avg	Carbo/Unibeads 2 (mm)

AIR - GC VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Batch Number: 83144 Batch Start Date: 01/08/15 10:26 Batch Analyst: Lyons, Benjamin P

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	ATNMOCCAL1w 00020	ATNMOCCAL3w 00018
ICRT 200-83144/1		EPA 25C		1	1	2 mL	2 mL		
IC 200-83144/2		EPA 25C		1	1	2 mL	2 mL		2 mL
IC 200-83144/3		EPA 25C		1	1	2 mL	2 mL	2 mL	
ICV 200-83144/4		EPA 25C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATNMOCCCVw 00037	ATNMOCLCSw 00045				
ICRT 200-83144/1		EPA 25C		2 mL					
IC 200-83144/2		EPA 25C							
IC 200-83144/3		EPA 25C							
ICV 200-83144/4		EPA 25C			2 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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Batch Number: 135246 Batch Start Date: 10/08/18 14:00 Batch Analyst: Desjardins, William R

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialPressure	FinalPressure	InitialAmount	FinalAmount	NMOCPress	NMOCTemp
CCV 200-135246/1		EPA 25C		1	1	2 mL	2 mL		
LCS 200-135246/2		EPA 25C		1	1	2 mL	2 mL		
MB 200-135246/3		EPA 25C		1	1	2 mL	2 mL		
200-45504-A-1	KTSG-COMP-9	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-2	KTSG-COMP-10	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-3	KTSG-COMP-11	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-4	KTSG-COMP-12	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-5	KTSG-COMP-13	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-6	KTSG-COMP-14	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-7	KTSG-COMP-15	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-8	KTSG-COMP-16	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
200-45504-A-9	KTSG-COMP-17	EPA 25C	T	1	1	2 mL	2 mL	29.42 inHg	27.5 Degrees C
CCVC 200-135246/16		EPA 25C		1	1	2 mL	2 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATNMOCCVw 00055	ATNMOCCLCSw 00061				
CCV 200-135246/1		EPA 25C		2 mL					
LCS 200-135246/2		EPA 25C			2 mL				
MB 200-135246/3		EPA 25C							
200-45504-A-1	KTSG-COMP-9	EPA 25C	T						
200-45504-A-2	KTSG-COMP-10	EPA 25C	T						
200-45504-A-3	KTSG-COMP-11	EPA 25C	T						
200-45504-A-4	KTSG-COMP-12	EPA 25C	T						
200-45504-A-5	KTSG-COMP-13	EPA 25C	T						
200-45504-A-6	KTSG-COMP-14	EPA 25C	T						
200-45504-A-7	KTSG-COMP-15	EPA 25C	T						
200-45504-A-8	KTSG-COMP-16	EPA 25C	T						
200-45504-A-9	KTSG-COMP-17	EPA 25C	T						

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 VOA BATCH WORKSHEET

Lab Name: TestAmerica Burlington Job No.: 200-45504-1

SDG No.: 200-45504-1

Batch Number: 135246 Batch Start Date: 10/08/18 14:00 Batch Analyst: Desjardins, William R

Batch Method: EPA 25C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	ATNMOCCCVw 00055	ATNMOCLCSw 00061				
CCVC 200-135246/16		EPA 25C		2 mL					

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: PBS Engineering and Environmental

Job No.: 200-45504-1  
SDG No.: 200-45504-1

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	Analyst
200-45504-1	6	-8.1	0.73	4.38	5.7	1.39	8.33		1.90	1.90	10/05/18 10:16	Desjardins, William R
200-45504-2	6	-8.9	0.70	4.22	5.6	1.38	8.29		1.97	1.97	10/05/18 10:17	Desjardins, William R
200-45504-3	6	-8.5	0.72	4.30	6.0	1.41	8.45		1.97	1.97	10/05/18 10:17	Desjardins, William R
200-45504-4	6	-7.8	0.74	4.44	5.3	1.36	8.16		1.84	1.84	10/05/18 10:18	Desjardins, William R
200-45504-4	6	1.2	1.04	6.24	26.6	2.81	16.86		2.70	4.97	10/09/18 16:20	Desjardins, William R
200-45504-5	6	-8.5	0.72	4.30	5.5	1.37	8.24		1.92	1.92	10/05/18 10:18	Desjardins, William R
200-45504-5	6	2.4	1.08	6.48	27.6	2.88	17.27		2.66	5.11	10/09/18 16:21	Desjardins, William R
200-45504-6	6	-8.1	0.73	4.38	5.6	1.38	8.29		1.89	1.89	10/05/18 10:20	Desjardins, William R
200-45504-6	6	1.6	1.05	6.32	27.3	2.86	17.14		2.71	5.14	10/09/18 16:19	Desjardins, William R
200-45504-7	6	-6.0	0.80	4.80	5.7	1.39	8.33		1.74	1.74	10/05/18 10:20	Desjardins, William R
200-45504-7	6	2.0	1.07	6.40	27.7	2.88	17.31		2.70	4.69	10/09/18 16:21	Desjardins, William R
200-45504-8	6	-10.3	0.66	3.93	5.5	1.37	8.24		2.10	2.10	10/05/18 10:20	Desjardins, William R
200-45504-8	6	1.6	1.05	6.32	26.8	2.82	16.94		2.68	5.62	10/09/18 16:22	Desjardins, William R
200-45504-9	6	-7.4	0.75	4.52	5.5	1.37	8.24		1.83	1.83	10/05/18 10:21	Desjardins, William R
200-45504-9	6	1.2	1.04	6.24	25.5	2.73	16.41		2.63	4.80	10/09/18 16:23	Desjardins, William R

**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		Max DF#		# Cycles		Cleaning Date		Technician		Canister Size		Certification Type				
Bottom Rack		1		20		8/20/2018		EJE		6L		Individual				
Port	Can ID	Initial (psia)	Final (psia)	Diff. <sup>3</sup>	Final ("Hg)	Gauge:	Date:	Initial Reading Time:	Tech:	Temp:	Gauge:	Date:	Final Reading Time:	Tech:	Temp:	Batch
1	4871	.01	.01	.00	-30.0	G26	8/21/18	8:22	CE	23	G26	9.5.18	14:51	CE	24	
2	3660	.01	.02	.00	-30.0	G26	9.5.18	14:19	CE	24	G26	9.6.18	15:51	CE	24	
3	3762	.01	.01	.00	-30.0	G26	8.21.15	8:22	CE	23	G26	9.5.18	14:04	CE	24	
4	5148		.03	.02		G26					G26					
5	5107		.01	.00		G26					G26					
6	4123		.01	.00		G26					G26					
7	2659		.01	.00		G26					G26					
8	5406		.04	.03		G26					G26					
9	5053		.01	.00		G26					G26					
10	4327		.01	.00		G26					G26					
11	3487		.01	.00		G26					G26					
12	4069		.01	.00		G26					G26					

<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>2</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 time frame was not met, the PM must authorize shipment of canister PM Authorization Date:

Clean Canister Certification Analysis & Authorization of Release to Inventory											
Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15		Sequence		Analyst		Inventory Level		Limited		Secondary Review	
Can ID	Date	32006	ASJ	1	2	3	4	Review Date	Reviewer		
3660	9/9/18				XXXX			9/9/18	MP		

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.

Comments:

200-44896-A-2  
3660  
Location: Air-Storage  
Bottle: Summa Canister 6L  
Sampled: 8/20/2018 12:00 AM 200-1186811

Loc: 200  
**44896**  
**#2**  
**A**









FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington

Job No.: 200-44895-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 31846-04.D

Lab ID: LCS 200-133106/4

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	9.87	99	58-129	
Dichlorodifluoromethane	10.0	9.90	99	68-128	
Freon 22	10.0	10.1	101	64-128	
1,2-Dichlorotetrafluoroethane	10.0	9.99	100	78-138	
Chloromethane	10.0	9.79	98	57-126	
n-Butane	10.0	9.42	94	56-130	
Vinyl chloride	10.0	10.5	105	62-125	
1,3-Butadiene	10.0	10.1	101	59-125	
Bromomethane	10.0	9.96	100	68-128	
Chloroethane	10.0	10.1	101	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.0	100	67-127	
Trichlorofluoromethane	10.0	10.1	101	67-127	
Ethanol	15.0	15.8	105	28-168	
Freon TF	10.0	9.90	99	68-128	
1,1-Dichloroethene	10.0	10.2	102	67-127	
Acetone	10.0	10.1	101	64-136	
Isopropyl alcohol	10.0	10.6	106	55-124	
Carbon disulfide	10.0	9.91	99	81-141	
3-Chloropropene	10.0	6.98	70	53-133	
Methylene Chloride	10.0	9.98	100	62-122	
tert-Butyl alcohol	10.0	10.2	102	64-124	
Methyl tert-butyl ether	10.0	10.0	101	67-127	
trans-1,2-Dichloroethene	10.0	10.1	101	72-132	
n-Hexane	10.0	8.93	89	71-131	
1,1-Dichloroethane	10.0	10.4	104	66-126	
Vinyl acetate	10.0	10.1	101	62-130	
Ethyl acetate	10.0	9.65	97	75-135	
Methyl Ethyl Ketone	10.0	9.82	98	62-122	
cis-1,2-Dichloroethene	10.0	9.94	99	67-127	
Chloroform	10.0	10.1	101	69-129	
Tetrahydrofuran	10.0	10.2	102	61-136	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Cyclohexane	10.0	9.99	100	69-129	
Carbon tetrachloride	10.0	10.8	108	62-143	
2,2,4-Trimethylpentane	10.0	10.0	100	67-127	
Benzene	10.0	9.73	97	67-127	
1,2-Dichloroethane	10.0	10.3	103	67-132	
n-Heptane	10.0	10.0	100	62-130	
Trichloroethene	10.0	10.4	104	68-128	
Methyl methacrylate	10.0	9.79	98	70-130	
1,2-Dichloropropane	10.0	10.2	102	67-127	
1,4-Dioxane	10.0	10.6	106	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.: 200-44895-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low Lab File ID: 31846-04.D

Lab ID: LCS 200-133106/4 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.1	101	69-129	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.1	101	62-130	
Toluene	10.0	9.85	99	67-127	
trans-1,3-Dichloropropene	10.0	10.1	101	69-129	
1,1,2-Trichloroethane	10.0	9.99	100	69-129	
Tetrachloroethene	10.0	9.96	100	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	9.79	98	61-127	
Dibromochloromethane	10.0	10.0	100	66-130	
1,2-Dibromoethane	10.0	9.95	100	70-130	
Chlorobenzene	10.0	9.82	98	68-128	
Ethylbenzene	10.0	9.83	98	68-128	
m,p-Xylene	20.0	20.1	100	68-128	
Xylene, o-	10.0	9.87	99	67-127	
Styrene	10.0	9.77	98	68-128	
Bromoform	10.0	9.43	94	34-170	
Cumene	10.0	10.1	101	67-127	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	69-129	
n-Propylbenzene	10.0	10.2	102	67-127	
4-Ethyltoluene	10.0	10.2	102	69-129	
1,3,5-Trimethylbenzene	10.0	10.1	101	65-125	
2-Chlorotoluene	10.0	9.96	100	67-127	
tert-Butylbenzene	10.0	10.2	102	63-125	
1,2,4-Trimethylbenzene	10.0	10.1	101	65-125	
sec-Butylbenzene	10.0	10.1	101	66-126	
4-Isopropyltoluene	10.0	9.84	98	67-129	
1,3-Dichlorobenzene	10.0	9.73	97	67-127	
1,4-Dichlorobenzene	10.0	9.52	95	66-126	
Benzyl chloride	10.0	9.79	98	54-135	
n-Butylbenzene	10.0	9.52	95	67-127	
1,2-Dichlorobenzene	10.0	9.79	98	67-127	
1,2,4-Trichlorobenzene	10.0	9.69	97	59-126	
Hexachlorobutadiene	10.0	10.0	100	62-130	
Naphthalene	10.0	9.22	92	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.: 200-45152-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 32143-03.d

Lab ID: LCS 200-133921/3

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	11.6	116	58-129	
Dichlorodifluoromethane	10.0	11.4	114	68-128	
Freon 22	10.0	11.3	113	64-128	
1,2-Dichlorotetrafluoroethane	10.0	12.7	127	78-138	
Chloromethane	10.0	10.7	107	57-126	
n-Butane	10.0	10.9	109	56-130	
Vinyl chloride	10.0	11.1	111	62-125	
1,3-Butadiene	10.0	11.8	118	59-125	
Bromomethane	10.0	9.80	98	68-128	
Chloroethane	10.0	9.74	97	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.7	107	67-127	
Trichlorofluoromethane	10.0	10.5	105	67-127	
Ethanol	15.0	12.7	85	28-168	
Freon TF	10.0	8.96	90	68-128	
1,1-Dichloroethene	10.0	9.89	99	67-127	
Acetone	10.0	10.3	103	64-136	
Isopropyl alcohol	10.0	9.64	96	55-124	
Carbon disulfide	10.0	9.68	97	81-141	
3-Chloropropene	10.0	8.33	83	53-133	
Methylene Chloride	10.0	8.57	86	62-122	
tert-Butyl alcohol	10.0	10.2	102	64-124	
Methyl tert-butyl ether	10.0	10.5	105	67-127	
trans-1,2-Dichloroethene	10.0	10.0	100	72-132	
n-Hexane	10.0	11.0	110	71-131	
1,1-Dichloroethane	10.0	9.72	97	66-126	
Vinyl acetate	10.0	10.1	101	62-130	
Ethyl acetate	10.0	9.38	94	75-135	
Methyl Ethyl Ketone	10.0	9.58	96	62-122	
cis-1,2-Dichloroethene	10.0	10.6	106	67-127	
Chloroform	10.0	9.69	97	69-129	
Tetrahydrofuran	10.0	10.5	105	61-136	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Cyclohexane	10.0	10.7	107	69-129	
Carbon tetrachloride	10.0	10.9	109	62-143	
2,2,4-Trimethylpentane	10.0	10.7	107	67-127	
Benzene	10.0	9.65	96	67-127	
1,2-Dichloroethane	10.0	11.2	112	67-132	
n-Heptane	10.0	11.3	113	62-130	
Trichloroethene	10.0	10.4	104	68-128	
Methyl methacrylate	10.0	10.6	106	70-130	
1,2-Dichloropropane	10.0	9.59	96	67-127	
1,4-Dioxane	10.0	10.1	101	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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: 32143-03.d  
 Lab ID: LCS 200-133921/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.5	105	69-129	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.3	103	62-130	
Toluene	10.0	10.1	101	67-127	
trans-1,3-Dichloropropene	10.0	10.8	108	69-129	
1,1,2-Trichloroethane	10.0	10.0	100	69-129	
Tetrachloroethene	10.0	10.7	107	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61-127	
Dibromochloromethane	10.0	10.1	101	66-130	
1,2-Dibromoethane	10.0	10.2	102	70-130	
Chlorobenzene	10.0	9.69	97	68-128	
Ethylbenzene	10.0	10.7	107	68-128	
m,p-Xylene	20.0	21.4	107	68-128	
Xylene, o-	10.0	10.7	107	67-127	
Styrene	10.0	10.7	107	68-128	
Bromoform	10.0	10.8	108	34-170	
Cumene	10.0	10.8	108	67-127	
1,1,2,2-Tetrachloroethane	10.0	9.81	98	69-129	
n-Propylbenzene	10.0	10.9	109	67-127	
4-Ethyltoluene	10.0	11.6	116	69-129	
1,3,5-Trimethylbenzene	10.0	10.9	109	65-125	
2-Chlorotoluene	10.0	10.2	102	67-127	
tert-Butylbenzene	10.0	10.9	109	63-125	
1,2,4-Trimethylbenzene	10.0	11.9	119	65-125	
sec-Butylbenzene	10.0	11.0	110	66-126	
4-Isopropyltoluene	10.0	11.2	112	67-129	
1,3-Dichlorobenzene	10.0	11.1	111	67-127	
1,4-Dichlorobenzene	10.0	11.1	111	66-126	
Benzyl chloride	10.0	10.7	107	54-135	
n-Butylbenzene	10.0	11.3	113	67-127	
1,2-Dichlorobenzene	10.0	10.9	109	67-127	
1,2,4-Trichlorobenzene	10.0	8.97	90	59-126	
Hexachlorobutadiene	10.0	9.57	96	62-130	
Naphthalene	10.0	8.23	82	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.: 200-45174-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 32143-03.d

Lab ID: LCS 200-133921/3

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	11.6	116	58-129	
Dichlorodifluoromethane	10.0	11.4	114	68-128	
Freon 22	10.0	11.3	113	64-128	
1,2-Dichlorotetrafluoroethane	10.0	12.7	127	78-138	
Chloromethane	10.0	10.7	107	57-126	
n-Butane	10.0	10.9	109	56-130	
Vinyl chloride	10.0	11.1	111	62-125	
1,3-Butadiene	10.0	11.8	118	59-125	
Bromomethane	10.0	9.80	98	68-128	
Chloroethane	10.0	9.74	97	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.7	107	67-127	
Trichlorofluoromethane	10.0	10.5	105	67-127	
Ethanol	15.0	12.7	85	28-168	
Freon TF	10.0	8.96	90	68-128	
1,1-Dichloroethene	10.0	9.89	99	67-127	
Acetone	10.0	10.3	103	64-136	
Isopropyl alcohol	10.0	9.64	96	55-124	
Carbon disulfide	10.0	9.68	97	81-141	
3-Chloropropene	10.0	8.33	83	53-133	
Methylene Chloride	10.0	8.57	86	62-122	
tert-Butyl alcohol	10.0	10.2	102	64-124	
Methyl tert-butyl ether	10.0	10.5	105	67-127	
trans-1,2-Dichloroethene	10.0	10.0	100	72-132	
n-Hexane	10.0	11.0	110	71-131	
1,1-Dichloroethane	10.0	9.72	97	66-126	
Vinyl acetate	10.0	10.1	101	62-130	
Ethyl acetate	10.0	9.38	94	75-135	
Methyl Ethyl Ketone	10.0	9.58	96	62-122	
cis-1,2-Dichloroethene	10.0	10.6	106	67-127	
Chloroform	10.0	9.69	97	69-129	
Tetrahydrofuran	10.0	10.5	105	61-136	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Cyclohexane	10.0	10.7	107	69-129	
Carbon tetrachloride	10.0	10.9	109	62-143	
2,2,4-Trimethylpentane	10.0	10.7	107	67-127	
Benzene	10.0	9.65	96	67-127	
1,2-Dichloroethane	10.0	11.2	112	67-132	
n-Heptane	10.0	11.3	113	62-130	
Trichloroethene	10.0	10.4	104	68-128	
Methyl methacrylate	10.0	10.6	106	70-130	
1,2-Dichloropropane	10.0	9.59	96	67-127	
1,4-Dioxane	10.0	10.1	101	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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: 32143-03.d  
 Lab ID: LCS 200-133921/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.5	105	69-129	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.3	103	62-130	
Toluene	10.0	10.1	101	67-127	
trans-1,3-Dichloropropene	10.0	10.8	108	69-129	
1,1,2-Trichloroethane	10.0	10.0	100	69-129	
Tetrachloroethene	10.0	10.7	107	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61-127	
Dibromochloromethane	10.0	10.1	101	66-130	
1,2-Dibromoethane	10.0	10.2	102	70-130	
Chlorobenzene	10.0	9.69	97	68-128	
Ethylbenzene	10.0	10.7	107	68-128	
m,p-Xylene	20.0	21.4	107	68-128	
Xylene, o-	10.0	10.7	107	67-127	
Styrene	10.0	10.7	107	68-128	
Bromoform	10.0	10.8	108	34-170	
Cumene	10.0	10.8	108	67-127	
1,1,2,2-Tetrachloroethane	10.0	9.81	98	69-129	
n-Propylbenzene	10.0	10.9	109	67-127	
4-Ethyltoluene	10.0	11.6	116	69-129	
1,3,5-Trimethylbenzene	10.0	10.9	109	65-125	
2-Chlorotoluene	10.0	10.2	102	67-127	
tert-Butylbenzene	10.0	10.9	109	63-125	
1,2,4-Trimethylbenzene	10.0	11.9	119	65-125	
sec-Butylbenzene	10.0	11.0	110	66-126	
4-Isopropyltoluene	10.0	11.2	112	67-129	
1,3-Dichlorobenzene	10.0	11.1	111	67-127	
1,4-Dichlorobenzene	10.0	11.1	111	66-126	
Benzyl chloride	10.0	10.7	107	54-135	
n-Butylbenzene	10.0	11.3	113	67-127	
1,2-Dichlorobenzene	10.0	10.9	109	67-127	
1,2,4-Trichlorobenzene	10.0	8.97	90	59-126	
Hexachlorobutadiene	10.0	9.57	96	62-130	
Naphthalene	10.0	8.23	82	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.: 200-45175-1

SDG No.: \_\_\_\_\_

Matrix: Air Level: Low

Lab File ID: 32143-03.d

Lab ID: LCS 200-133921/3

Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Propylene	10.0	11.6	116	58-129	
Dichlorodifluoromethane	10.0	11.4	114	68-128	
Freon 22	10.0	11.3	113	64-128	
1,2-Dichlorotetrafluoroethane	10.0	12.7	127	78-138	
Chloromethane	10.0	10.7	107	57-126	
n-Butane	10.0	10.9	109	56-130	
Vinyl chloride	10.0	11.1	111	62-125	
1,3-Butadiene	10.0	11.8	118	59-125	
Bromomethane	10.0	9.80	98	68-128	
Chloroethane	10.0	9.74	97	65-125	
Bromoethene (Vinyl Bromide)	10.0	10.7	107	67-127	
Trichlorofluoromethane	10.0	10.5	105	67-127	
Ethanol	15.0	12.7	85	28-168	
Freon TF	10.0	8.96	90	68-128	
1,1-Dichloroethene	10.0	9.89	99	67-127	
Acetone	10.0	10.3	103	64-136	
Isopropyl alcohol	10.0	9.64	96	55-124	
Carbon disulfide	10.0	9.68	97	81-141	
3-Chloropropene	10.0	8.33	83	53-133	
Methylene Chloride	10.0	8.57	86	62-122	
tert-Butyl alcohol	10.0	10.2	102	64-124	
Methyl tert-butyl ether	10.0	10.5	105	67-127	
trans-1,2-Dichloroethene	10.0	10.0	100	72-132	
n-Hexane	10.0	11.0	110	71-131	
1,1-Dichloroethane	10.0	9.72	97	66-126	
Vinyl acetate	10.0	10.1	101	62-130	
Ethyl acetate	10.0	9.38	94	75-135	
Methyl Ethyl Ketone	10.0	9.58	96	62-122	
cis-1,2-Dichloroethene	10.0	10.6	106	67-127	
Chloroform	10.0	9.69	97	69-129	
Tetrahydrofuran	10.0	10.5	105	61-136	
1,1,1-Trichloroethane	10.0	10.2	102	70-130	
Cyclohexane	10.0	10.7	107	69-129	
Carbon tetrachloride	10.0	10.9	109	62-143	
2,2,4-Trimethylpentane	10.0	10.7	107	67-127	
Benzene	10.0	9.65	96	67-127	
1,2-Dichloroethane	10.0	11.2	112	67-132	
n-Heptane	10.0	11.3	113	62-130	
Trichloroethene	10.0	10.4	104	68-128	
Methyl methacrylate	10.0	10.6	106	70-130	
1,2-Dichloropropane	10.0	9.59	96	67-127	
1,4-Dioxane	10.0	10.1	101	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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: 32143-03.d  
 Lab ID: LCS 200-133921/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Bromodichloromethane	10.0	10.5	105	69-129	
cis-1,3-Dichloropropene	10.0	10.2	102	70-130	
methyl isobutyl ketone	10.0	10.3	103	62-130	
Toluene	10.0	10.1	101	67-127	
trans-1,3-Dichloropropene	10.0	10.8	108	69-129	
1,1,2-Trichloroethane	10.0	10.0	100	69-129	
Tetrachloroethene	10.0	10.7	107	70-130	
Methyl Butyl Ketone (2-Hexanone)	10.0	10.1	101	61-127	
Dibromochloromethane	10.0	10.1	101	66-130	
1,2-Dibromoethane	10.0	10.2	102	70-130	
Chlorobenzene	10.0	9.69	97	68-128	
Ethylbenzene	10.0	10.7	107	68-128	
m,p-Xylene	20.0	21.4	107	68-128	
Xylene, o-	10.0	10.7	107	67-127	
Styrene	10.0	10.7	107	68-128	
Bromoform	10.0	10.8	108	34-170	
Cumene	10.0	10.8	108	67-127	
1,1,2,2-Tetrachloroethane	10.0	9.81	98	69-129	
n-Propylbenzene	10.0	10.9	109	67-127	
4-Ethyltoluene	10.0	11.6	116	69-129	
1,3,5-Trimethylbenzene	10.0	10.9	109	65-125	
2-Chlorotoluene	10.0	10.2	102	67-127	
tert-Butylbenzene	10.0	10.9	109	63-125	
1,2,4-Trimethylbenzene	10.0	11.9	119	65-125	
sec-Butylbenzene	10.0	11.0	110	66-126	
4-Isopropyltoluene	10.0	11.2	112	67-129	
1,3-Dichlorobenzene	10.0	11.1	111	67-127	
1,4-Dichlorobenzene	10.0	11.1	111	66-126	
Benzyl chloride	10.0	10.7	107	54-135	
n-Butylbenzene	10.0	11.3	113	67-127	
1,2-Dichlorobenzene	10.0	10.9	109	67-127	
1,2,4-Trichlorobenzene	10.0	8.97	90	59-126	
Hexachlorobutadiene	10.0	9.57	96	62-130	
Naphthalene	10.0	8.23	82	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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31846-05.D Lab Sample ID: MB 200-133106/5  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHB.i Date Analyzed: 08/21/2018 13:00  
 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 200-133106/4	31846-04.D	08/21/2018 12:07
2723	200-44895-2	31846-21.D	08/22/2018 03:33



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133106/5  
 Matrix: Air Lab File ID: 31846-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 08/21/2018 13:00  
 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.: 133106 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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133106/5  
 Matrix: Air Lab File ID: 31846-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 08/21/2018 13:00  
 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.: 133106 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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133106/5  
 Matrix: Air Lab File ID: 31846-05.D  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 08/21/2018 13:00  
 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.: 133106 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\CHB.i\20180821-31846.b\31846-05.D  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 21-Aug-2018 13:00:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0031846-005  
 Operator ID: ert Instrument ID: CHB.i  
 Method: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\TO15\_LL NJ\_TO3.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 22-Aug-2018 10:48:37 Calib Date: 14-Aug-2018 00:20:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal/External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20180813-31773.b\31773-10.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK024

First Level Reviewer: puangmaleek Date: 22-Aug-2018 10:48:37

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		3.135					ND	
2 Dichlorodifluoromethane	85		3.193					ND	
3 Chlorodifluoromethane	51		3.225					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.407					ND	
5 Chloromethane	50		3.535					ND	
6 Butane	43		3.706					ND	U
7 Vinyl chloride	62		3.743					ND	
8 Butadiene	54		3.807					ND	
10 Bromomethane	94		4.469					ND	
11 Chloroethane	64		4.698					ND	
12 2-Methylbutane	43		4.778					ND	
13 Vinyl bromide	106		5.104					ND	
14 Trichlorofluoromethane	101		5.205					ND	
15 Pentane	43		5.344					ND	U
16 Ethanol	45		5.659					ND	
17 Ethyl ether	59		5.814					ND	
18 Acrolein	56		6.177					ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.230					ND	
20 1,1-Dichloroethene	96		6.299					ND	
21 Acetone	43		6.449					ND	
22 Isopropyl alcohol	45		6.668					ND	
23 Carbon disulfide	76		6.732					ND	
24 3-Chloro-1-propene	41		6.998					ND	
26 Acetonitrile	41		7.052					ND	
T 25 Methyl Acetate TIC	43		7.200					ND	
27 Methylene Chloride	49		7.260					ND	
28 2-Methyl-2-propanol	59		7.367					ND	
29 Methyl tert-butyl ether	73		7.607					ND	
30 trans-1,2-Dichloroethene	61		7.666					ND	
31 Acrylonitrile	53		7.730					ND	
32 Hexane	57	7.997	7.996	0.001	86	3984		0.1062	
33 1,1-Dichloroethane	63		8.407					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 Vinyl acetate	43		8.413					ND	
36 2-Butanone (MEK)	72		9.293					ND	
37 cis-1,2-Dichloroethene	96		9.309					ND	
35 Ethyl acetate	88		9.315					ND	
* 39 Chlorobromomethane	128	9.672	9.678	-0.006	72	312575	10.0	10.0	
38 Tetrahydrofuran	42		9.688					ND	
40 Chloroform	83		9.752					ND	
S 41 1,2-Dichloroethene, Total	61		10.000					ND	
42 1,1,1-Trichloroethane	97		10.008					ND	
43 Cyclohexane	84		10.024					ND	
44 Carbon tetrachloride	117		10.222					ND	
45 Isooctane	57		10.499					ND	
46 Benzene	78		10.542					ND	
47 1,2-Dichloroethane	62		10.638					ND	
48 n-Heptane	43		10.756					ND	
A 49 GRO	1	10.849	(4.768-16.930)		0	3745267		0	
* 50 1,4-Difluorobenzene	114	11.081	11.081	0.000	91	1472485	10.0	10.0	
51 n-Butanol	56		11.268					ND	U
53 Trichloroethene	95		11.455					ND	
T 52 Methyl cyclohexane TIC	55		11.500					ND	
54 1,2-Dichloropropane	63		11.823					ND	
55 Methyl methacrylate	69		11.860					ND	
56 1,4-Dioxane	88		11.951					ND	
57 Dibromomethane	174		12.010					ND	
58 Dichlorobromomethane	83		12.181					ND	
A 59 TVOC as Toluene	1	12.466	(3.125-21.808)		0	3921913		0	
60 cis-1,3-Dichloropropene	75		12.805					ND	
61 4-Methyl-2-pentanone (MIBK)	43		12.954					ND	
63 n-Octane	43		13.227					ND	
64 Toluene	92	13.237	13.237	0.000	88	1332		0.0204	7M
66 trans-1,3-Dichloropropene	75		13.595					ND	
67 1,1,2-Trichloroethane	83		13.867					ND	
68 Tetrachloroethene	166		14.011					ND	
69 2-Hexanone	43		14.129					ND	
70 Chlorodibromomethane	129		14.422					ND	
71 Ethylene Dibromide	107		14.625					ND	
* 72 Chlorobenzene-d5	117	15.191	15.191	0.000	80	1269262	10.0	10.0	
73 Chlorobenzene	112		15.233					ND	U
74 Ethylbenzene	91	15.297	15.297	0.000	91	3803		0.0276	7a
75 n-Nonane	57		15.324					ND	
76 m-Xylene & p-Xylene	106		15.447					ND	U
78 o-Xylene	106		15.959					ND	
79 Styrene	104		15.980					ND	U
S 77 Xylenes, Total	106		16.000					ND	
80 Bromoform	173		16.274					ND	
81 Isopropylbenzene	105		16.370					ND	U
83 1,1,2,2-Tetrachloroethane	83		16.776					ND	
84 N-Propylbenzene	91		16.850					ND	U
85 1,2,3-Trichloropropane	75		16.861					ND	U
86 n-Decane	57		16.920					ND	
87 4-Ethyltoluene	105		16.978					ND	U
88 2-Chlorotoluene	91		17.016					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
89 1,3,5-Trimethylbenzene	105		17.043					ND	
90 Alpha Methyl Styrene	118		17.315					ND	
91 tert-Butylbenzene	119		17.416					ND	U
92 1,2,4-Trimethylbenzene	105		17.485					ND	U
93 sec-Butylbenzene	105		17.672					ND	U
94 4-Isopropyltoluene	119		17.827					ND	U
95 1,3-Dichlorobenzene	146		17.902					ND	
96 1,4-Dichlorobenzene	146		18.014					ND	
97 Benzyl chloride	91		18.163					ND	U
98 Undecane	57		18.297					ND	
99 n-Butylbenzene	91		18.334					ND	
100 1,2-Dichlorobenzene	146		18.500					ND	
T 101 1,2-Dibromo-3-Chloropropan	75		19.300					ND	
102 Dodecane	57		19.748					ND	
103 1,2,4-Trichlorobenzene	180		20.848					ND	
104 Hexachlorobutadiene	225		21.019					ND	U
105 Naphthalene	128		21.328					ND	
106 1,2,3-Trichlorobenzene	180		21.798					ND	
T 119 Freon 115 TIC	1		0.000					ND	
T 120 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	
T 121 1,3-Dichloropropane TIC	1		0.000					ND	
T 118 Difluoroethane TIC	1		0.000					ND	
T 107 Methyl acetylene TIC	1		0.000					ND	
T 108 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 117 Chlorotrifluoroethene 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:

ATTO15BISs\_00006

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D

Injection Date: 21-Aug-2018 13:00:30

Instrument ID: CHB.i

Operator ID: ert

Lims ID: mb

Worklist Smp#: 5

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

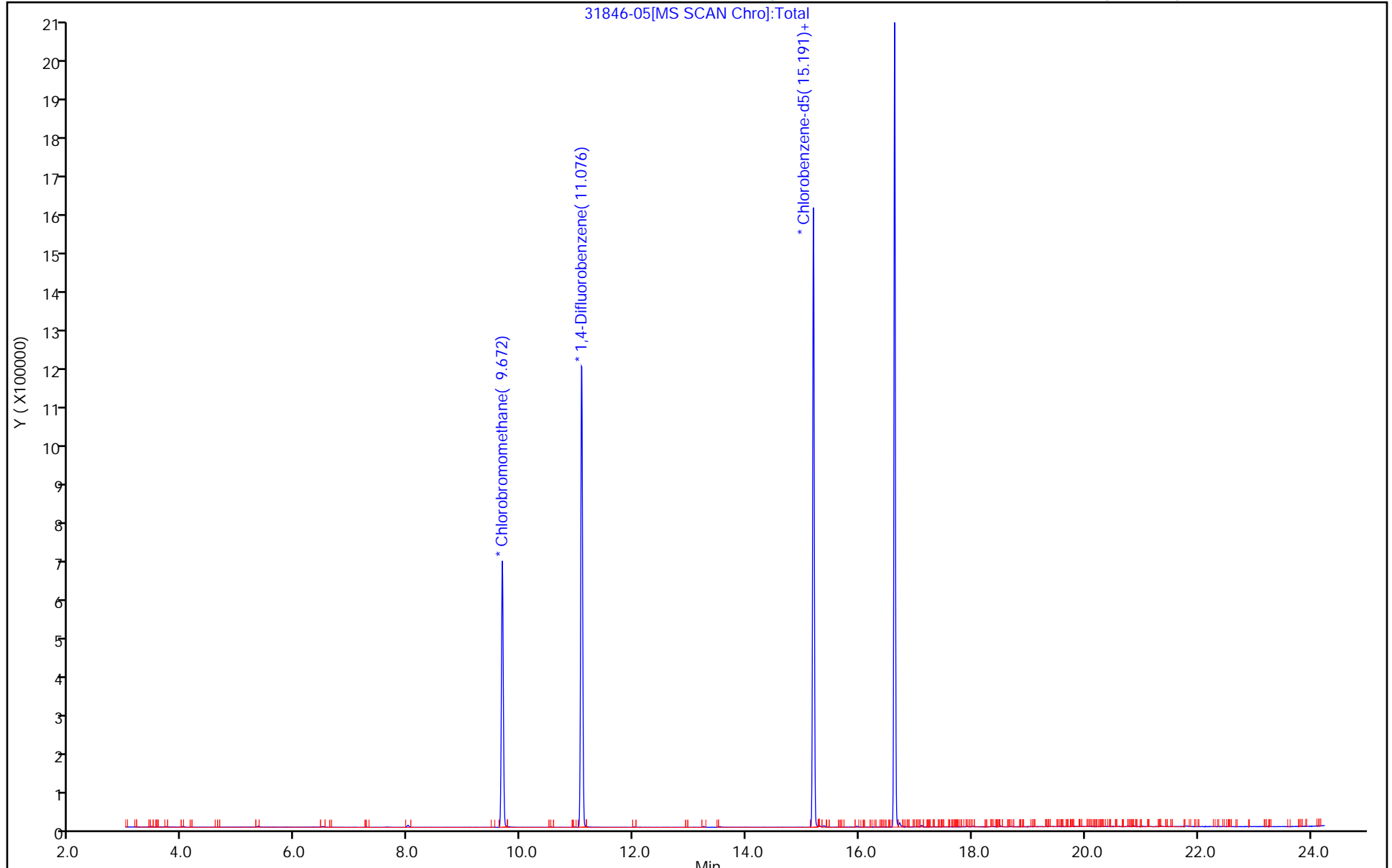
ALS Bottle#: 5

Method: TO15\_LLNJ\_TO3

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

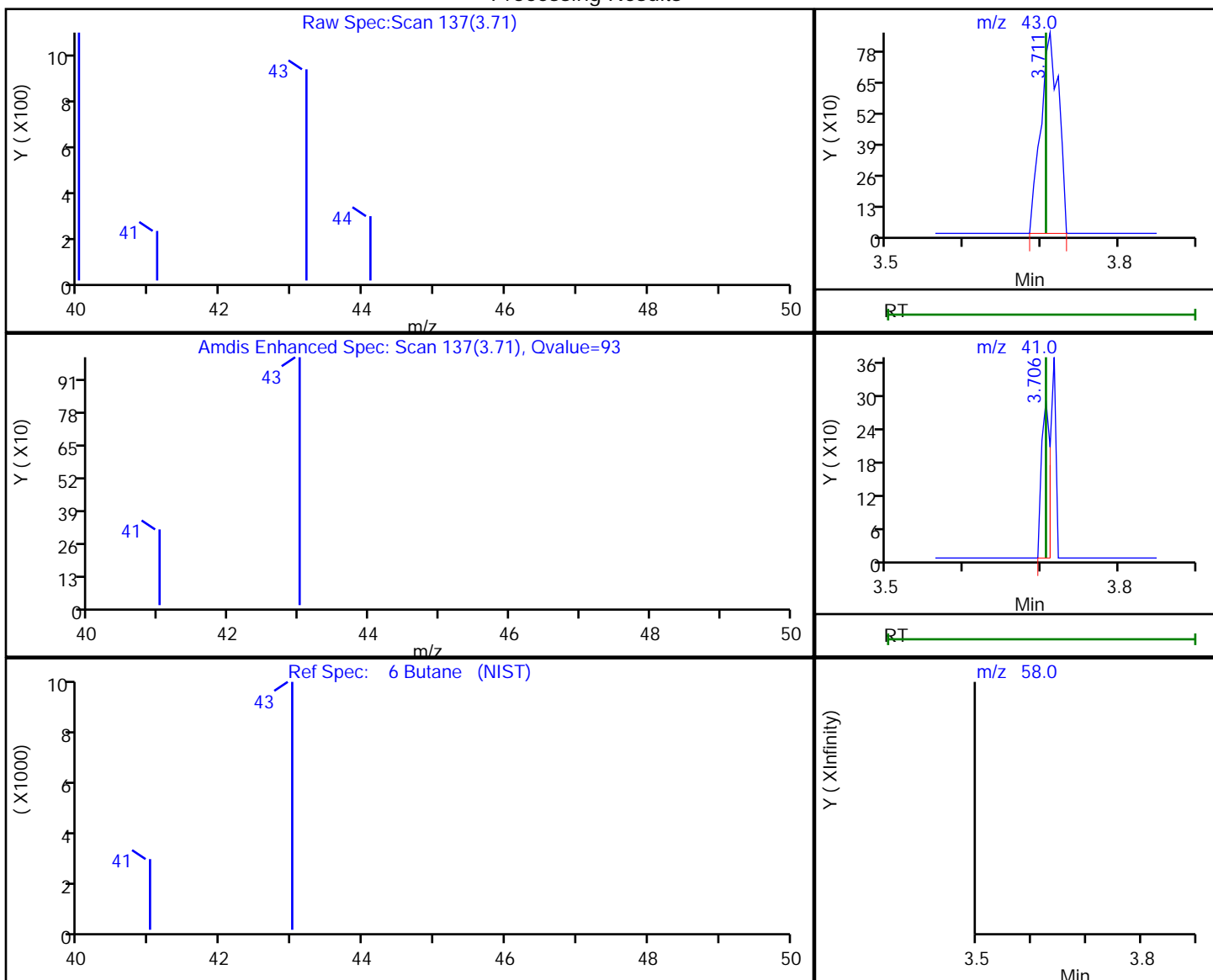


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 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
3.71	43.00	1381	0.066500
3.71	41.00	224	
3.71	58.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:44:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID



TestAmerica Burlington

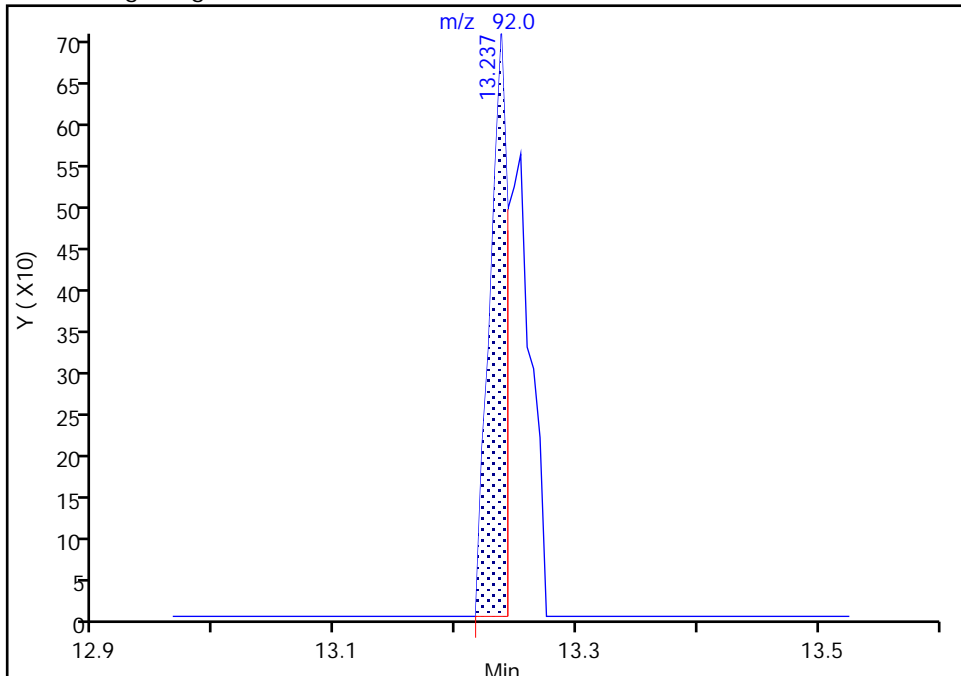
Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

64 Toluene, CAS: 108-88-3

Signal: 1

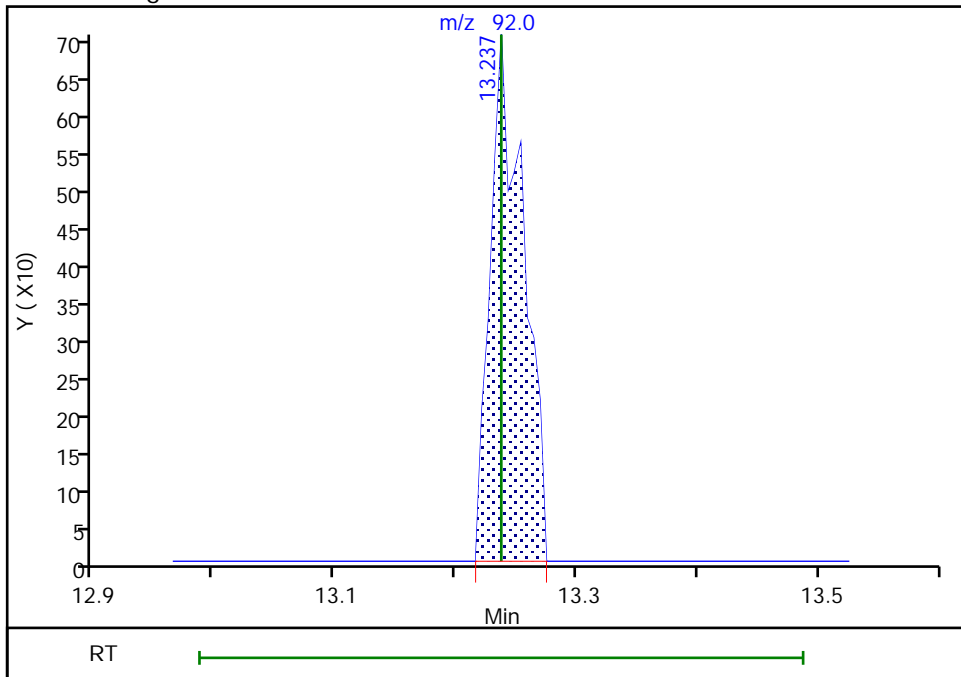
RT: 13.24  
Area: 721  
Amount: 0.011048  
Amount Units: ppb v/v

Processing Integration Results



RT: 13.24  
Area: 1332  
Amount: 0.020410  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 22-Aug-2018 10:45:45  
Audit Action: Manually Integrated

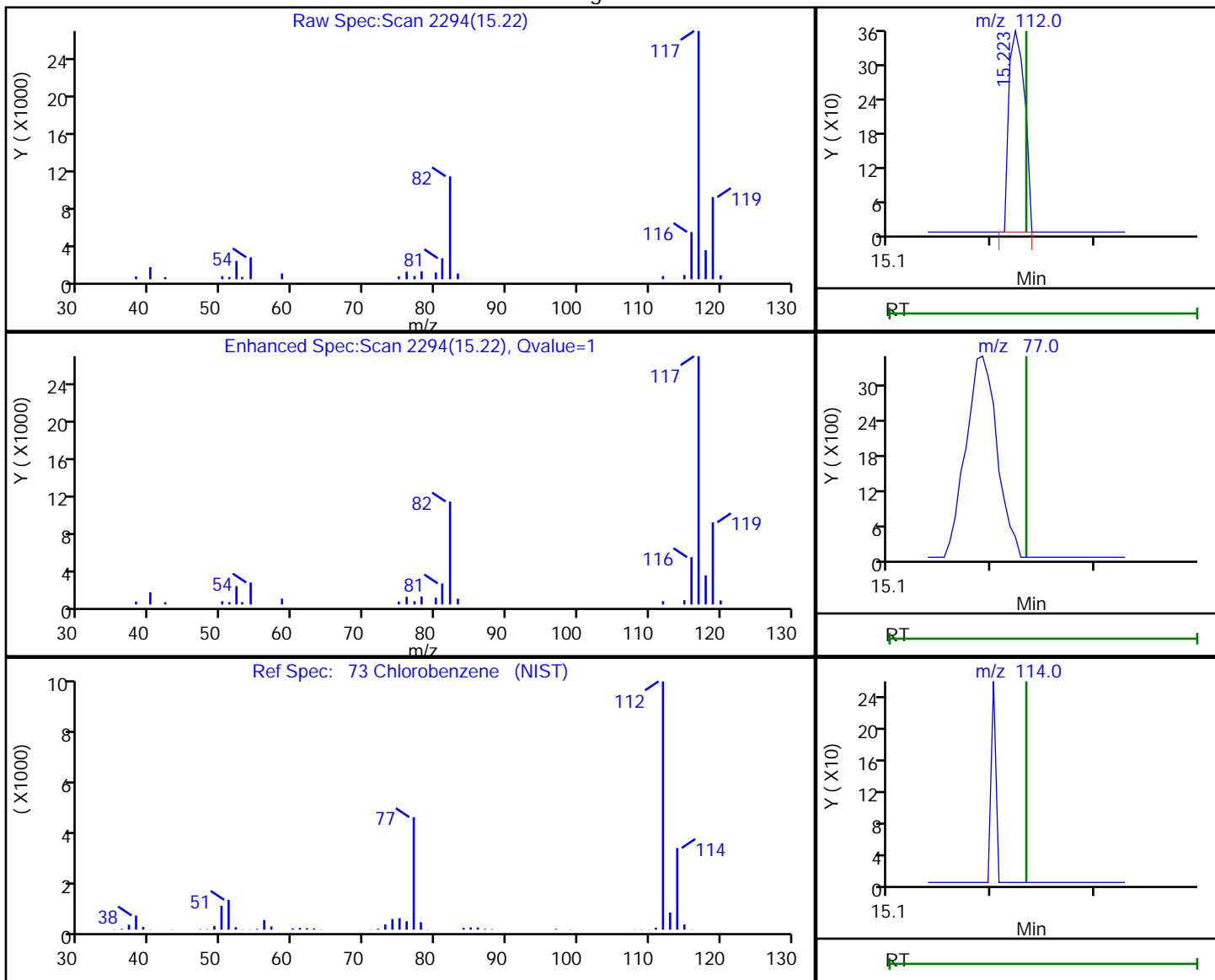
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

73 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
15.22	112.00	372	0.003890
15.23	77.00	0	
15.23	114.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:45:54

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

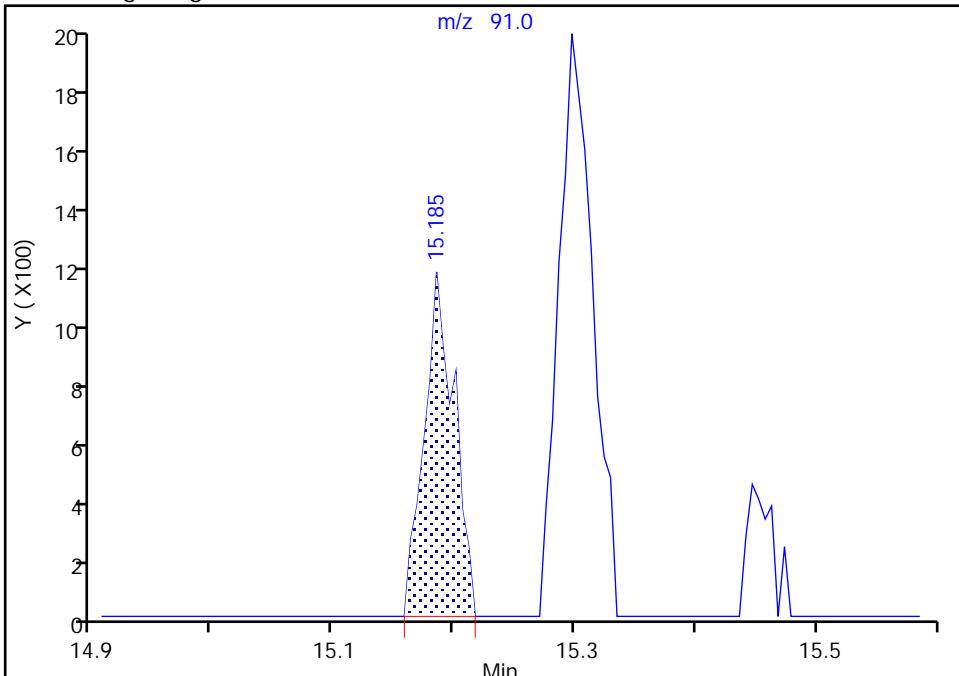
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Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.i  
Lims ID: mb  
Client ID:  
Operator ID: ert ALS Bottle#: 5 Worklist Smp#: 5  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

74 Ethylbenzene, CAS: 100-41-4

Signal: 1

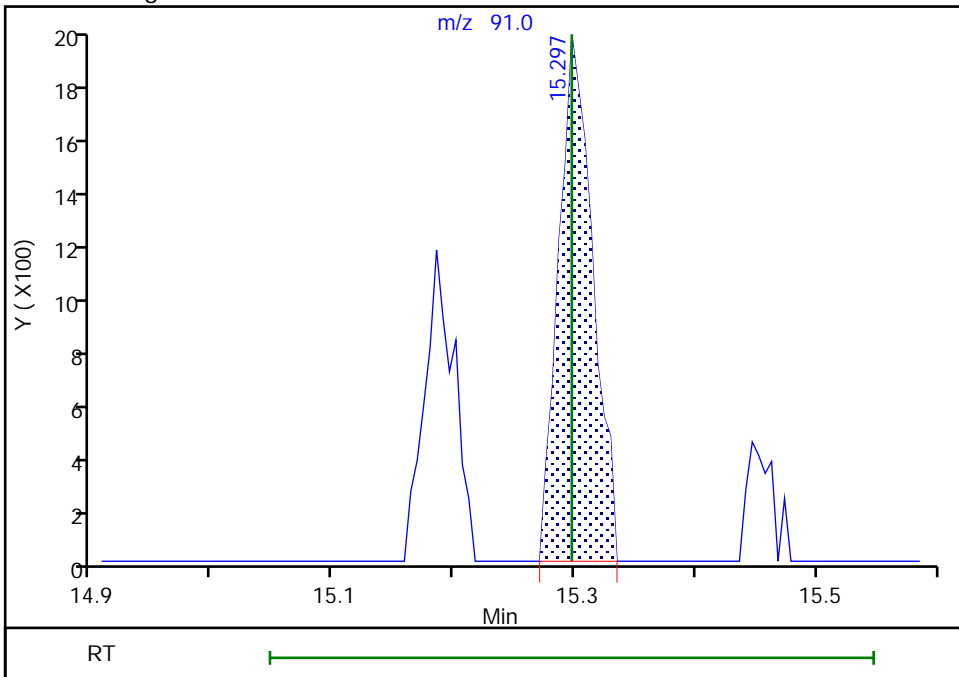
RT: 15.19  
Area: 1968  
Amount: 0.014299  
Amount Units: ppb v/v

Processing Integration Results



RT: 15.30  
Area: 3803  
Amount: 0.027632  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 22-Aug-2018 10:45:59  
Audit Action: Assigned Compound ID

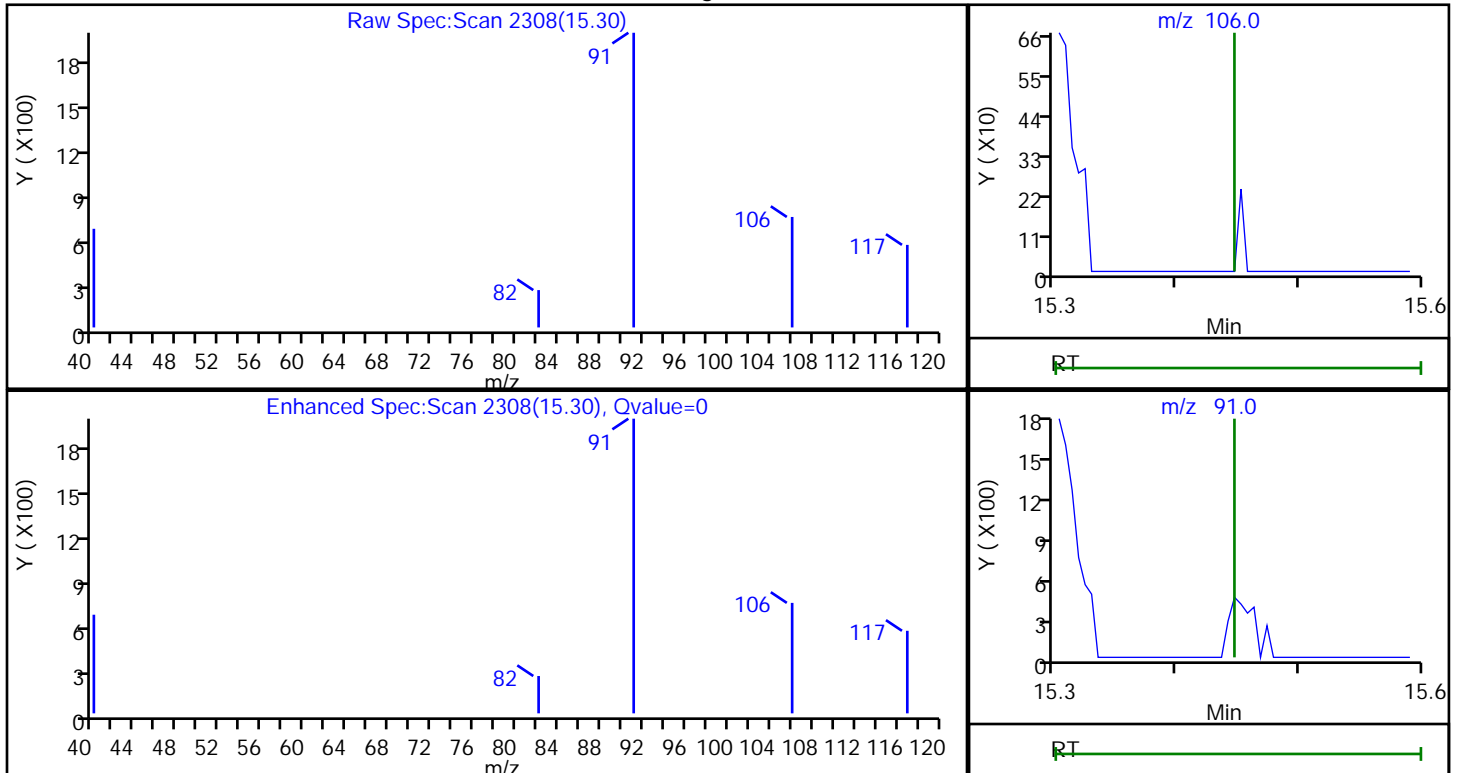
Audit Reason: Assign Peak

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

76 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
15.30	106.00	1227	0.020881
15.30	91.00	3803	

Reviewer: puangmaleek, 22-Aug-2018 10:46:03

Audit Action: Marked Compound Undetected

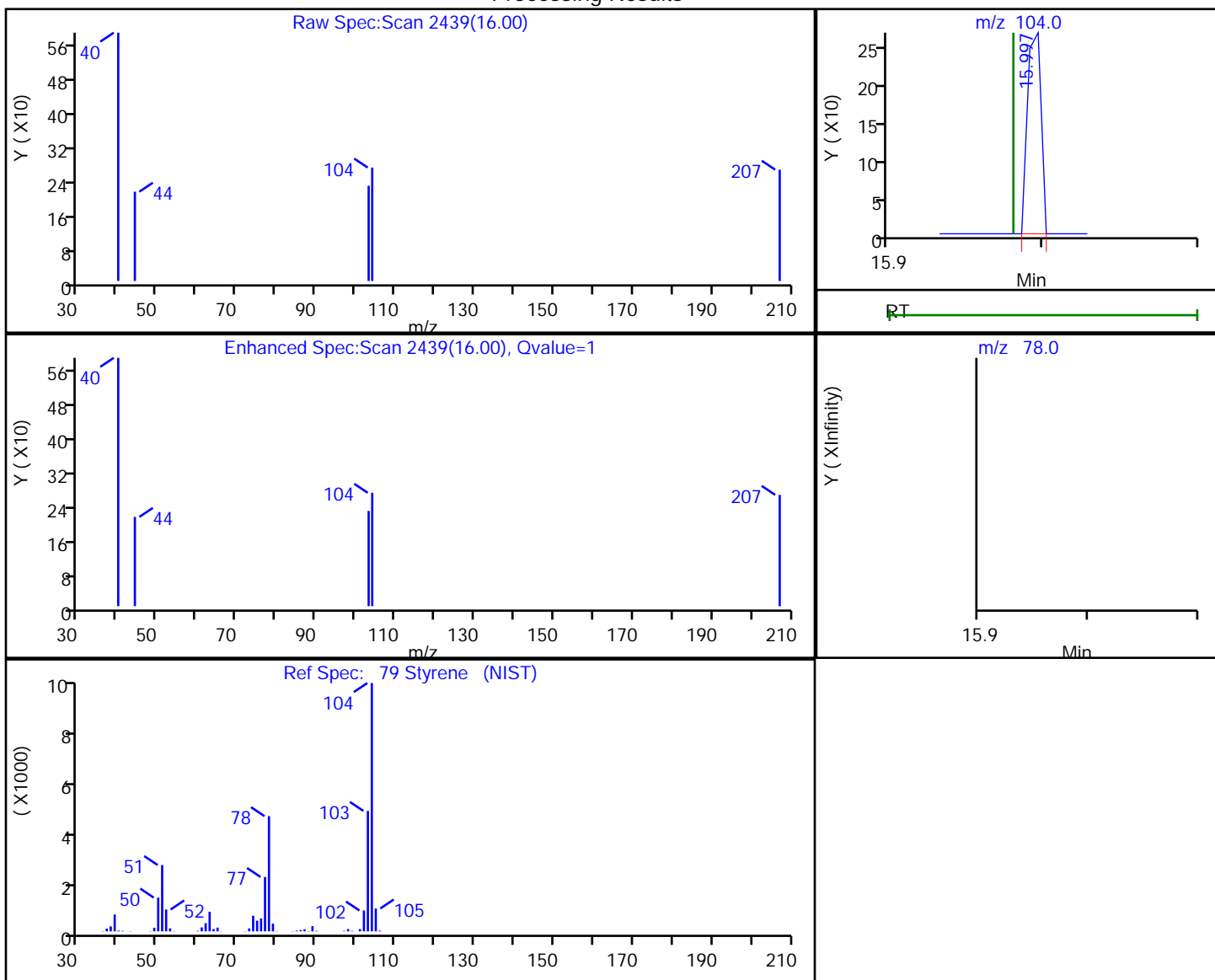
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNI\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

79 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
16.00	104.00	165	0.001768
15.98	78.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:07

Audit Action: Marked Compound Undetected

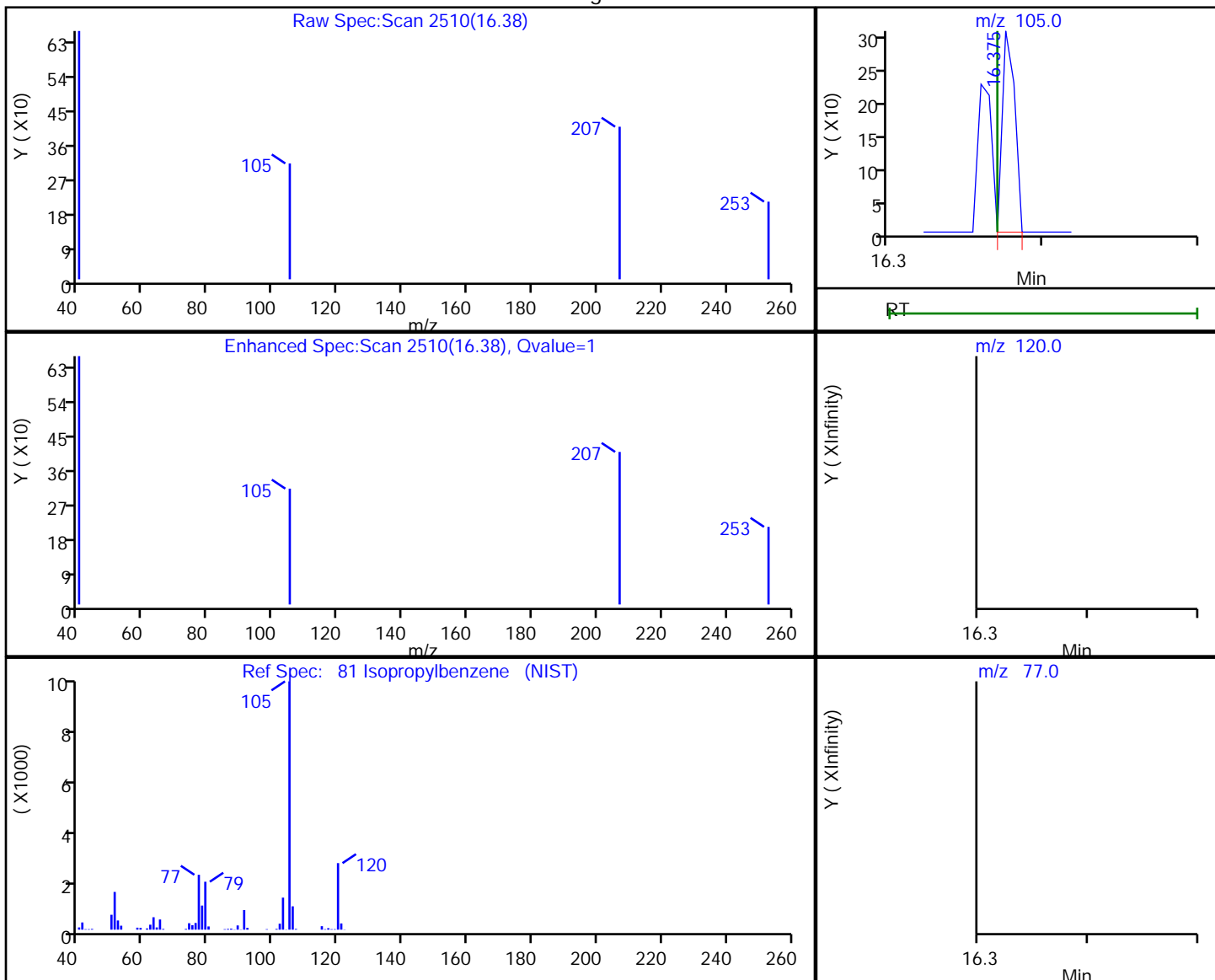
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

81 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
16.38	105.00	171	0.001056
16.37	120.00	0	
16.37	77.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:11

Audit Action: Marked Compound Undetected

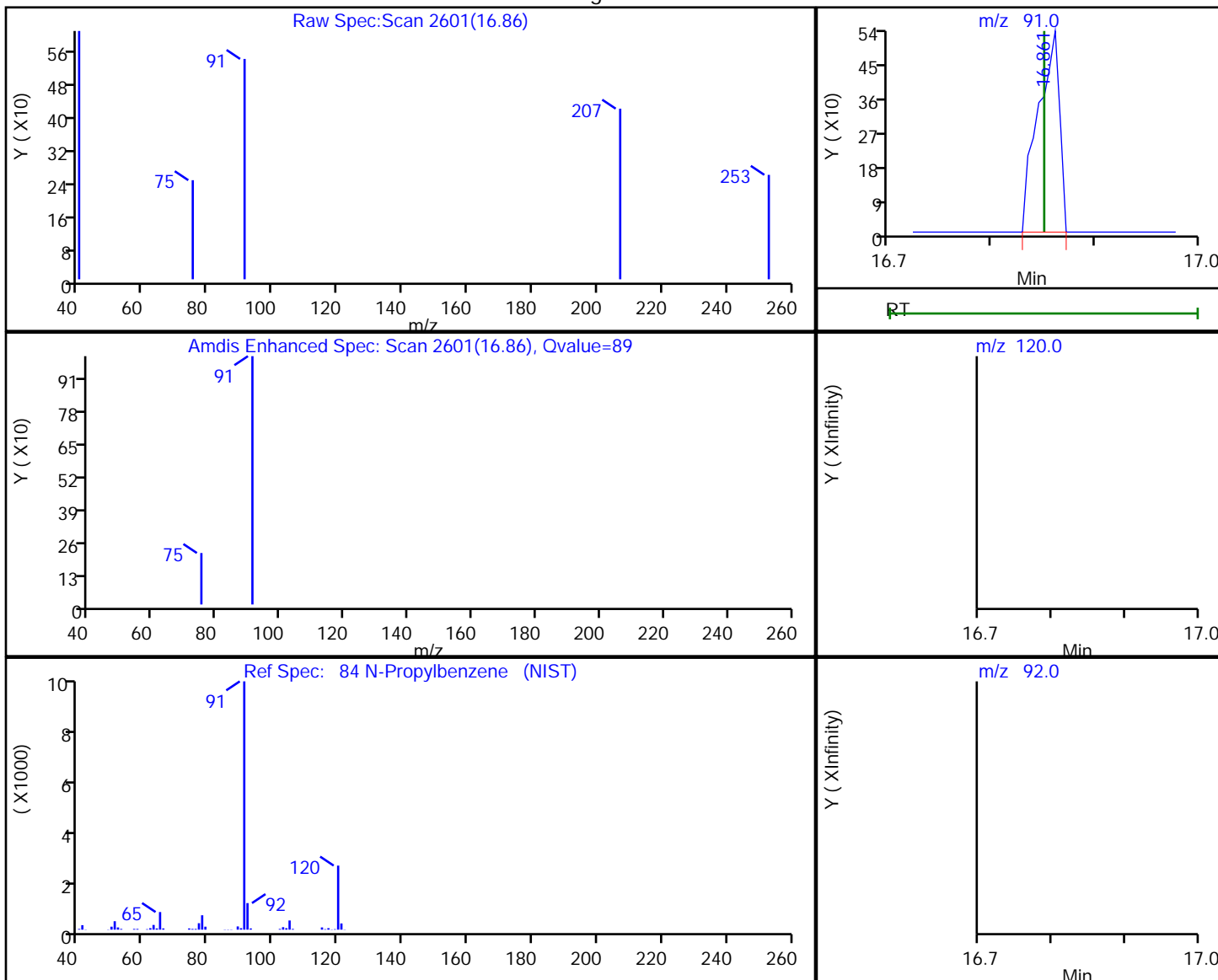
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

84 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
16.86	91.00	774	0.004377
16.85	120.00	0	
16.85	92.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:14

Audit Action: Marked Compound Undetected

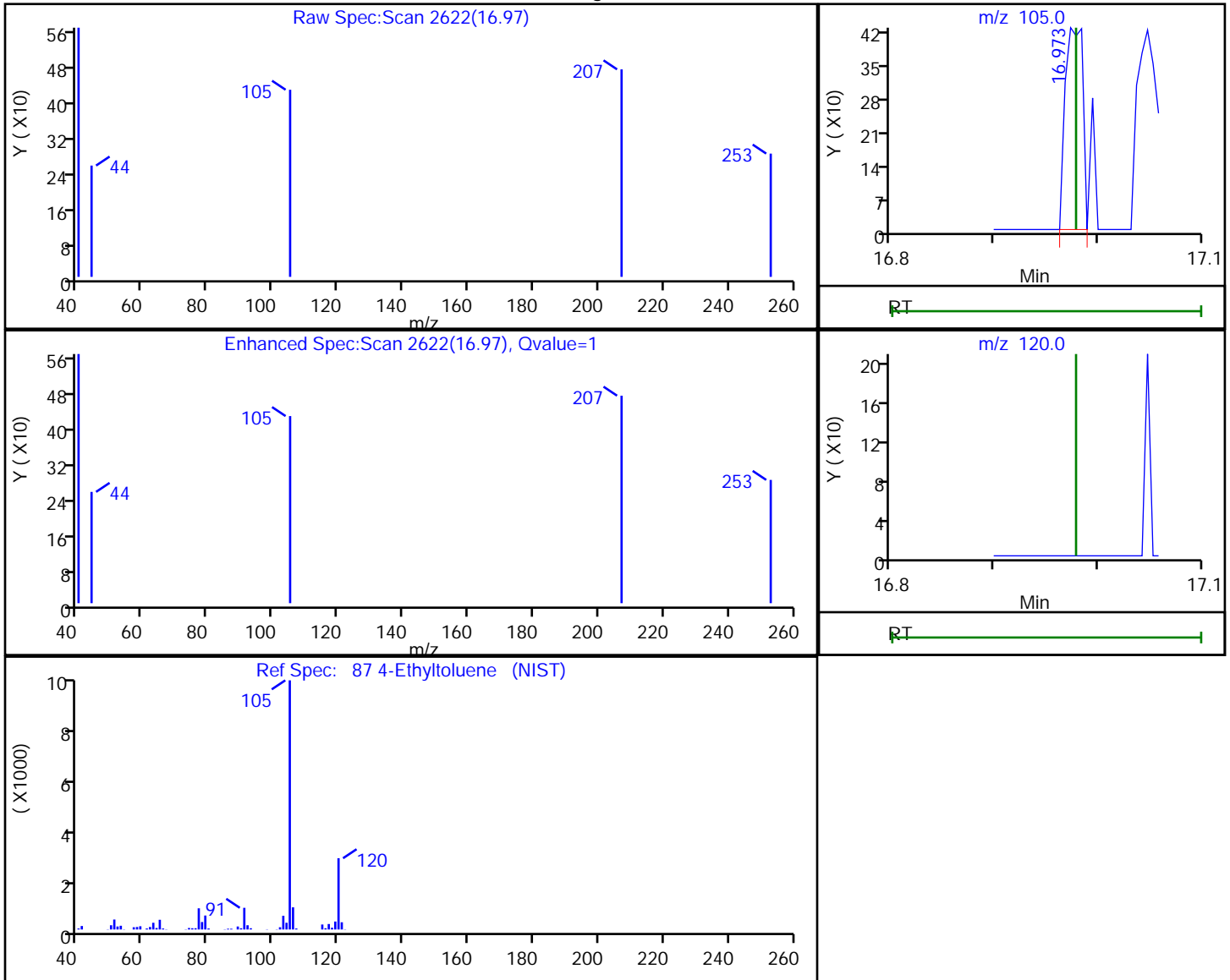
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
16.97	105.00	498	0.003105
16.98	120.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:21

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

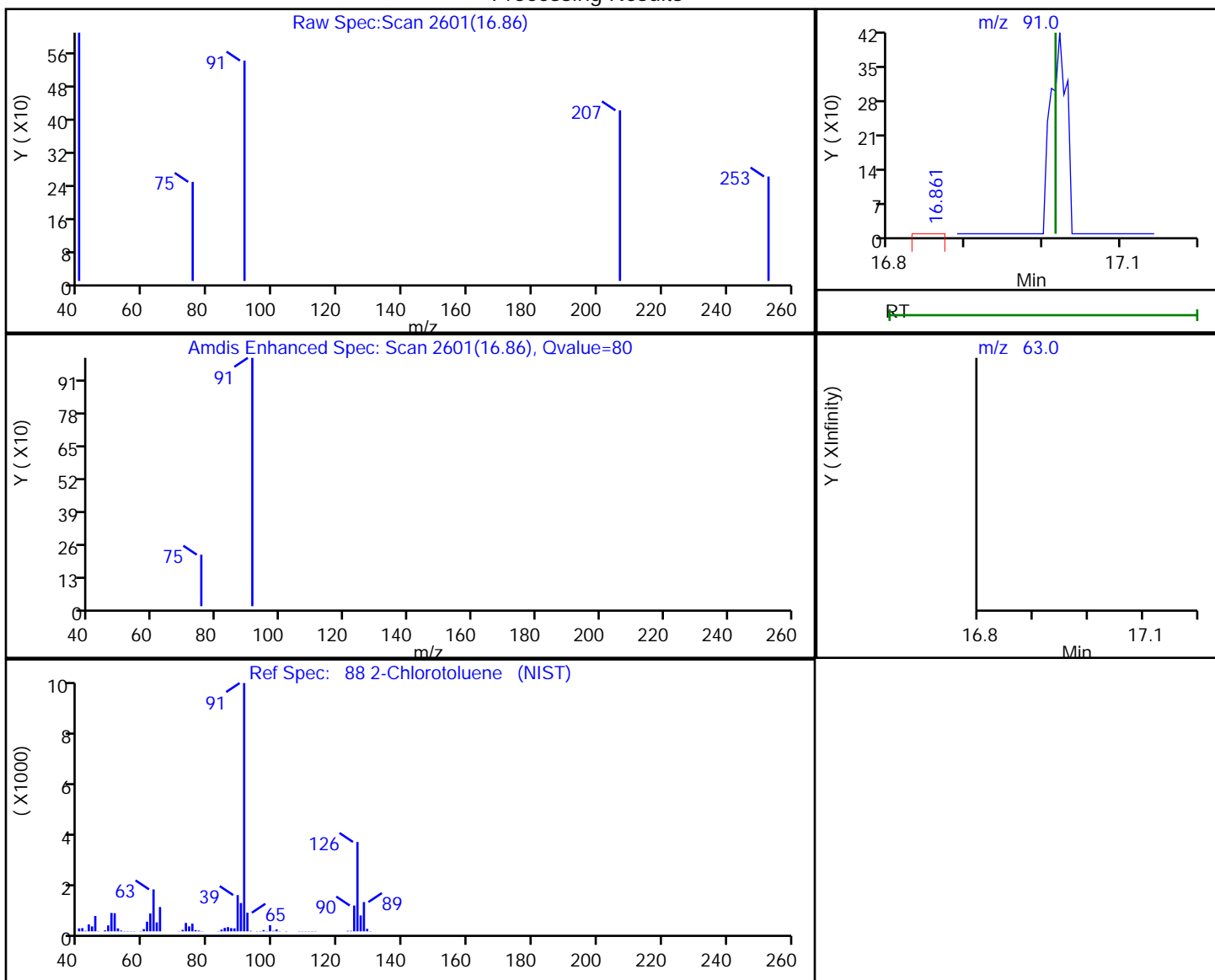


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

88 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
16.86	91.00	774	0.006449
17.02	63.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:23

Audit Action: Marked Compound Undetected

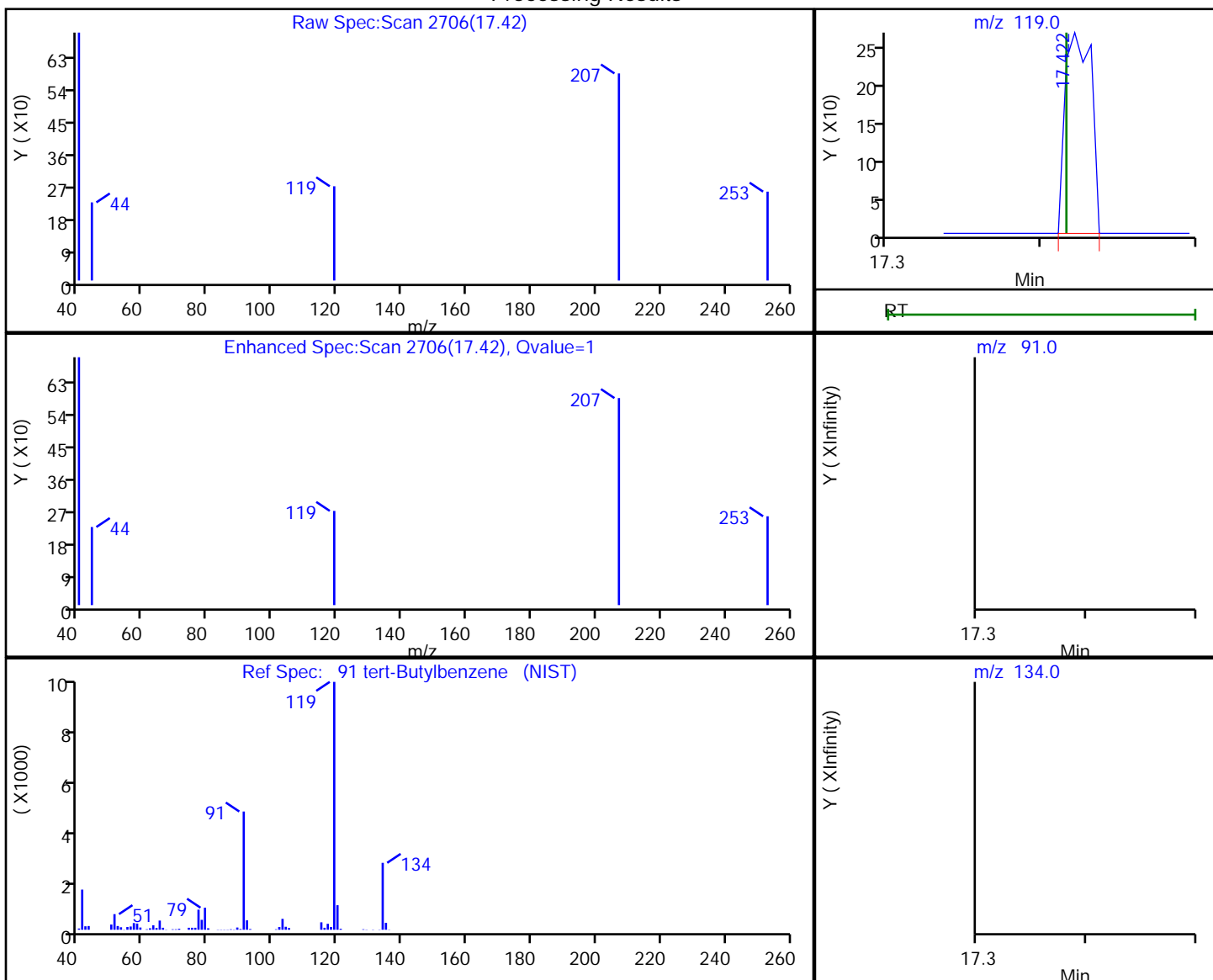
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

91 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
17.42	119.00	308	0.002295
17.42	91.00	0	
17.42	134.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:37

Audit Action: Marked Compound Undetected

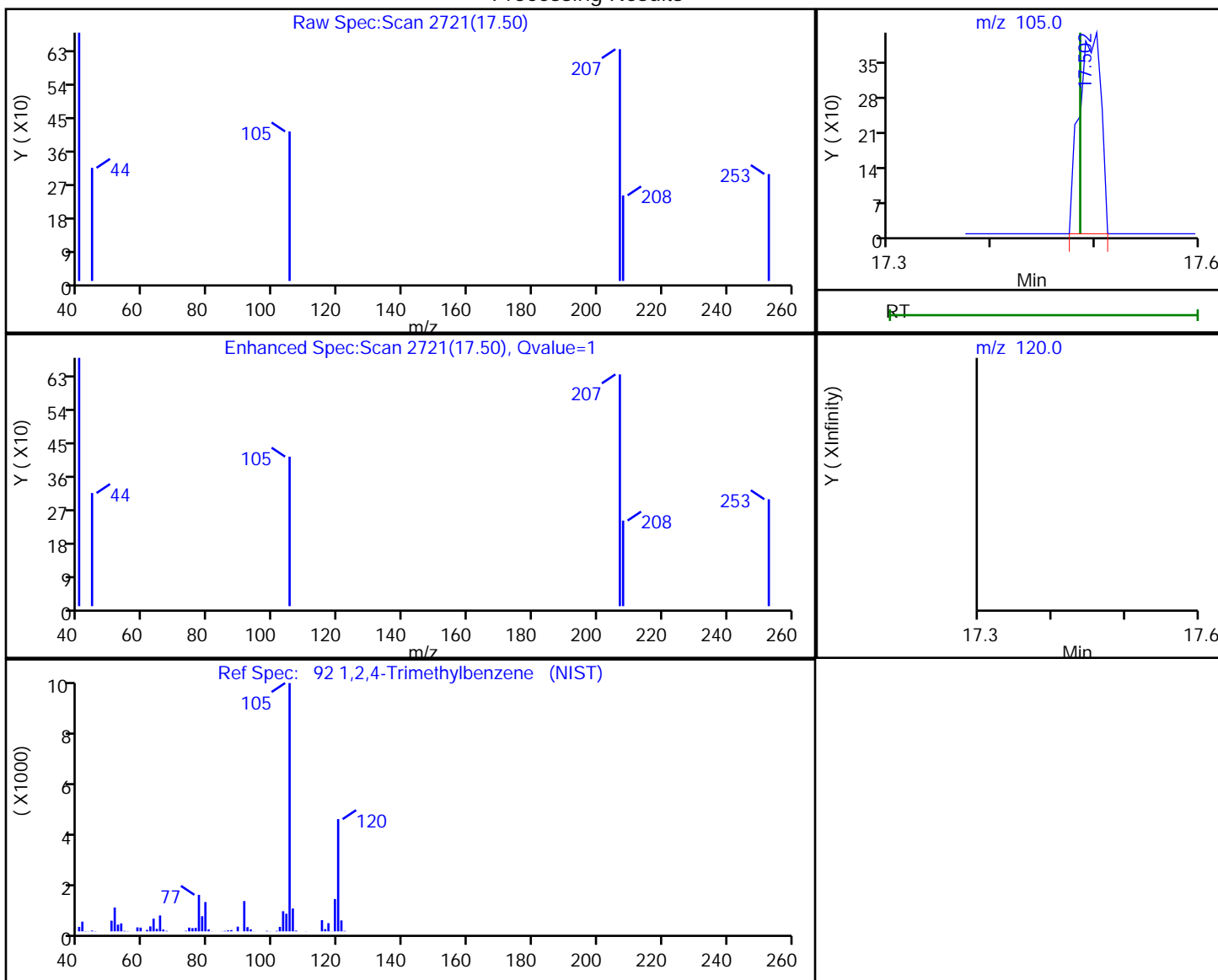
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector MS SCAN

92 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
17.50	105.00	601	0.004627
17.49	120.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:41

Audit Action: Marked Compound Undetected

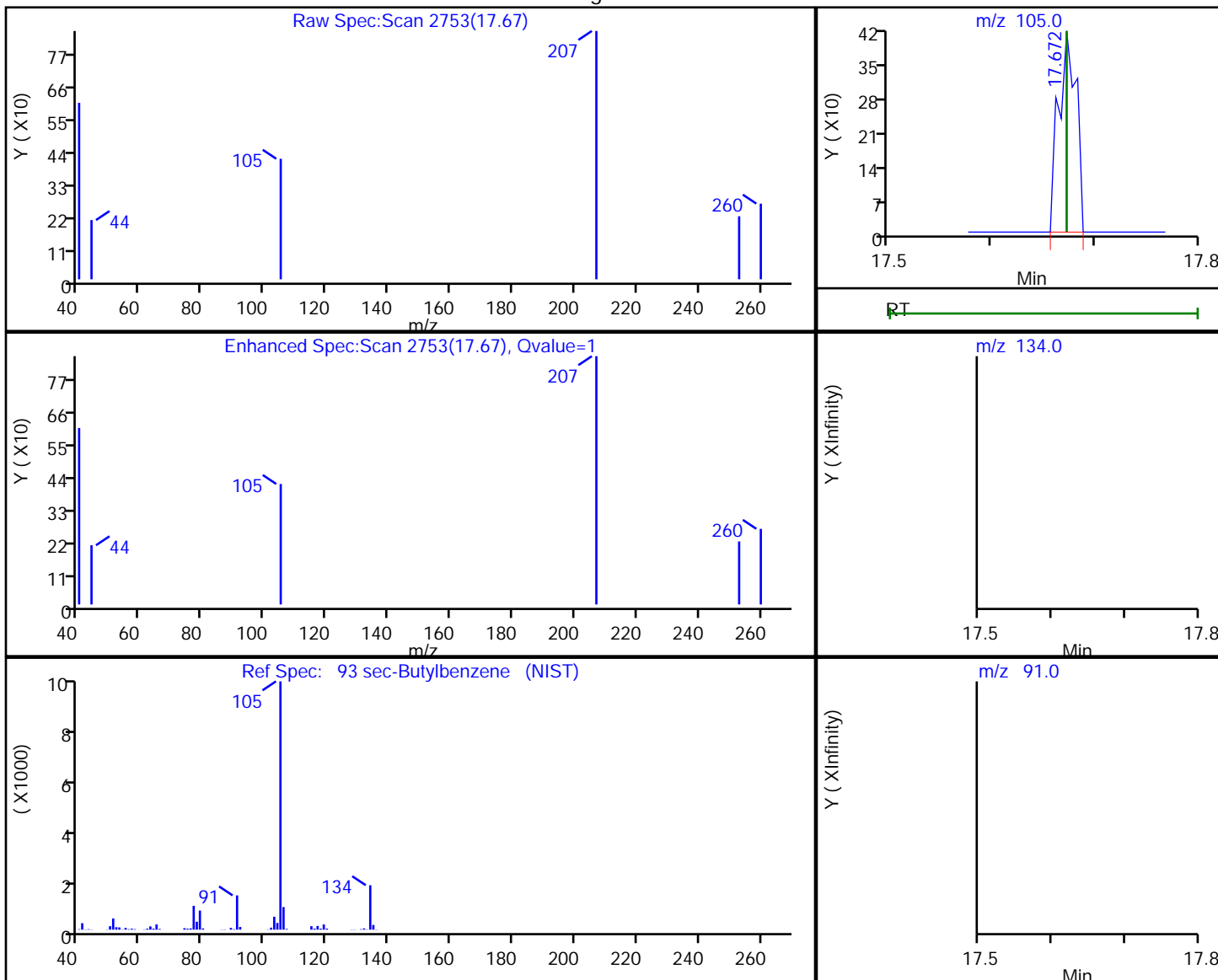
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

93 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
17.67	105.00	489	0.002458
17.67	134.00	0	
17.67	91.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:42

Audit Action: Marked Compound Undetected

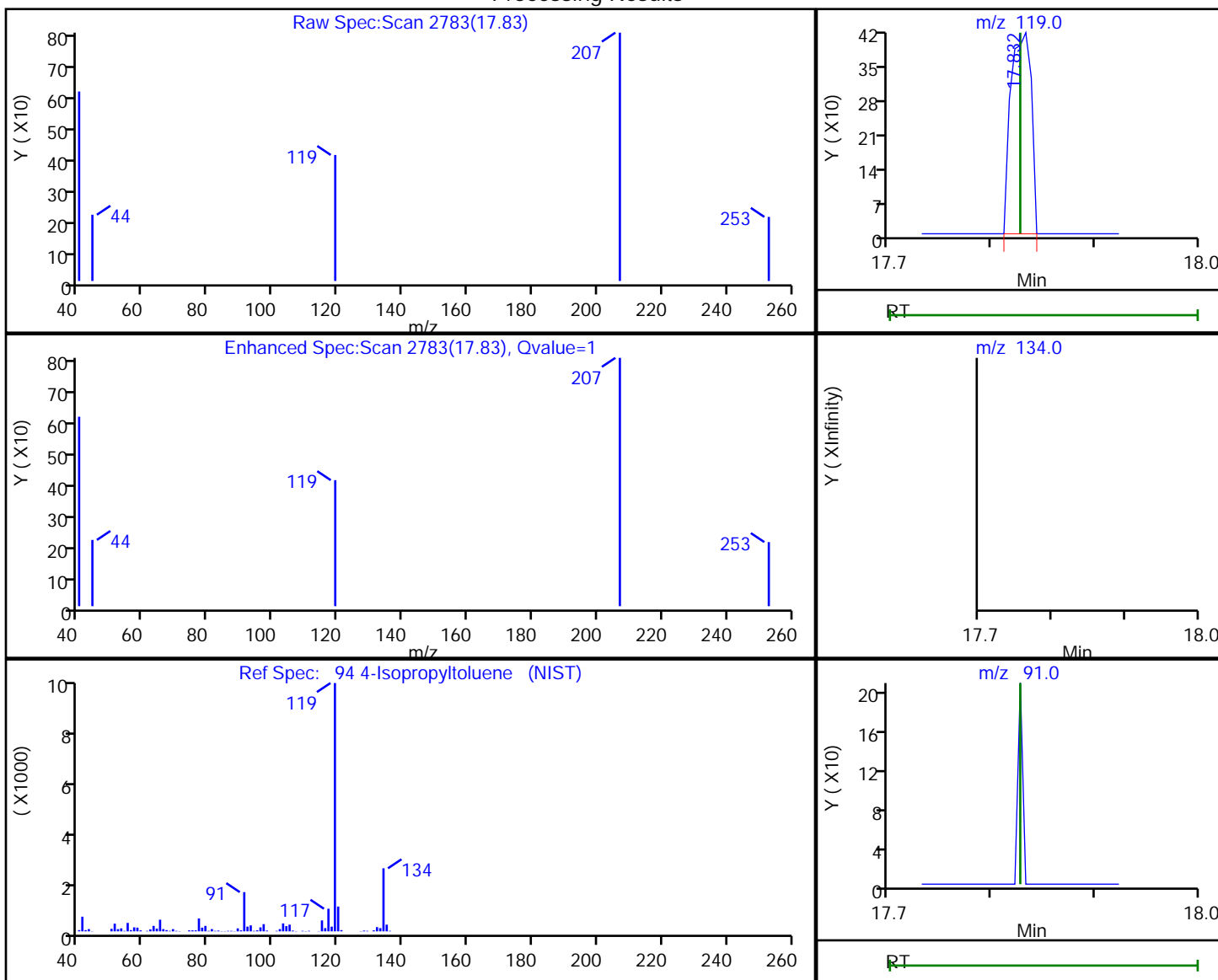
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

94 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
17.83	119.00	566	0.003212
17.83	134.00	0	
17.83	91.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:46:46

Audit Action: Marked Compound Undetected

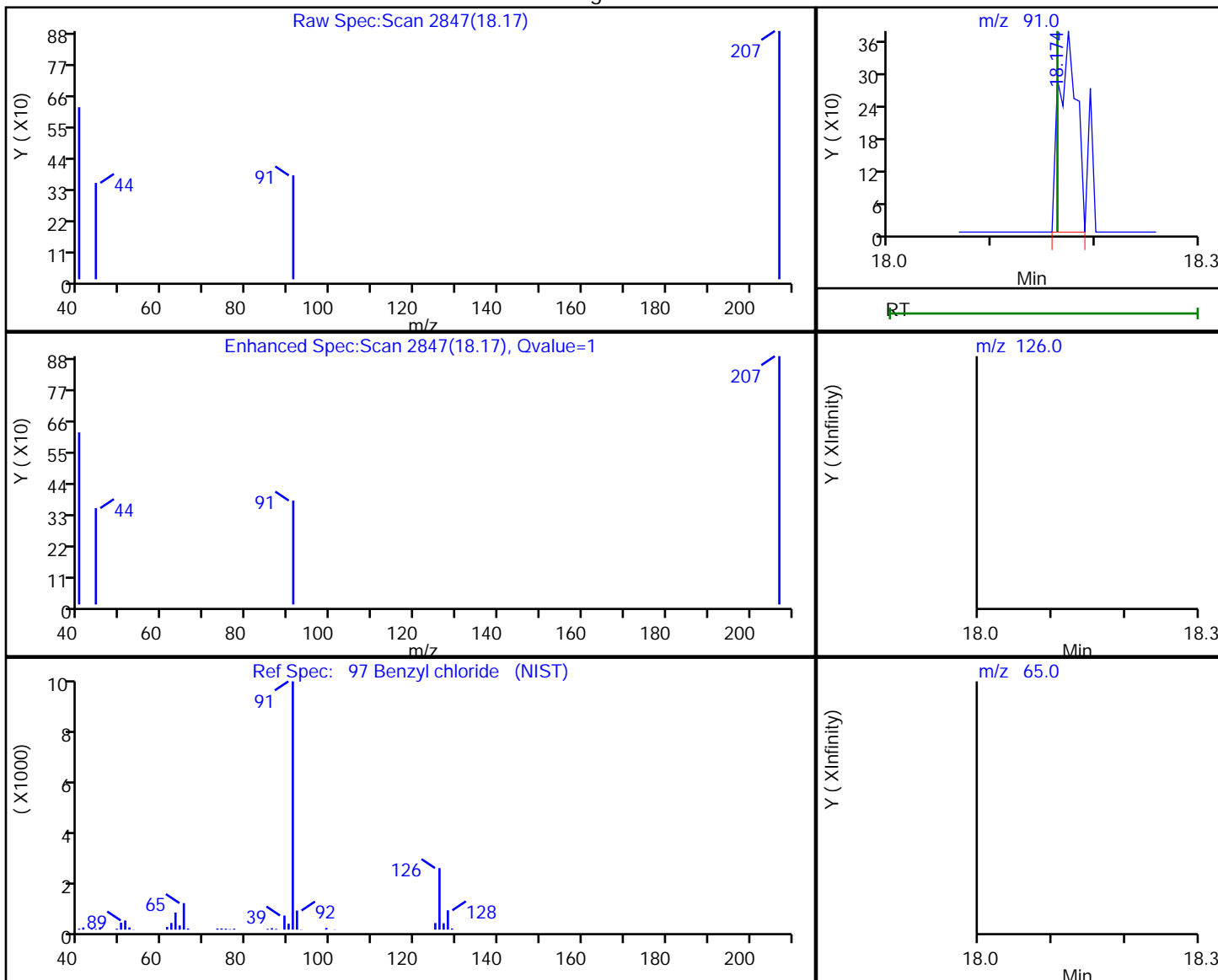
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

97 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
18.17	91.00	440	0.004217
18.16	126.00	0	
18.16	65.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:47:03

Audit Action: Marked Compound Undetected

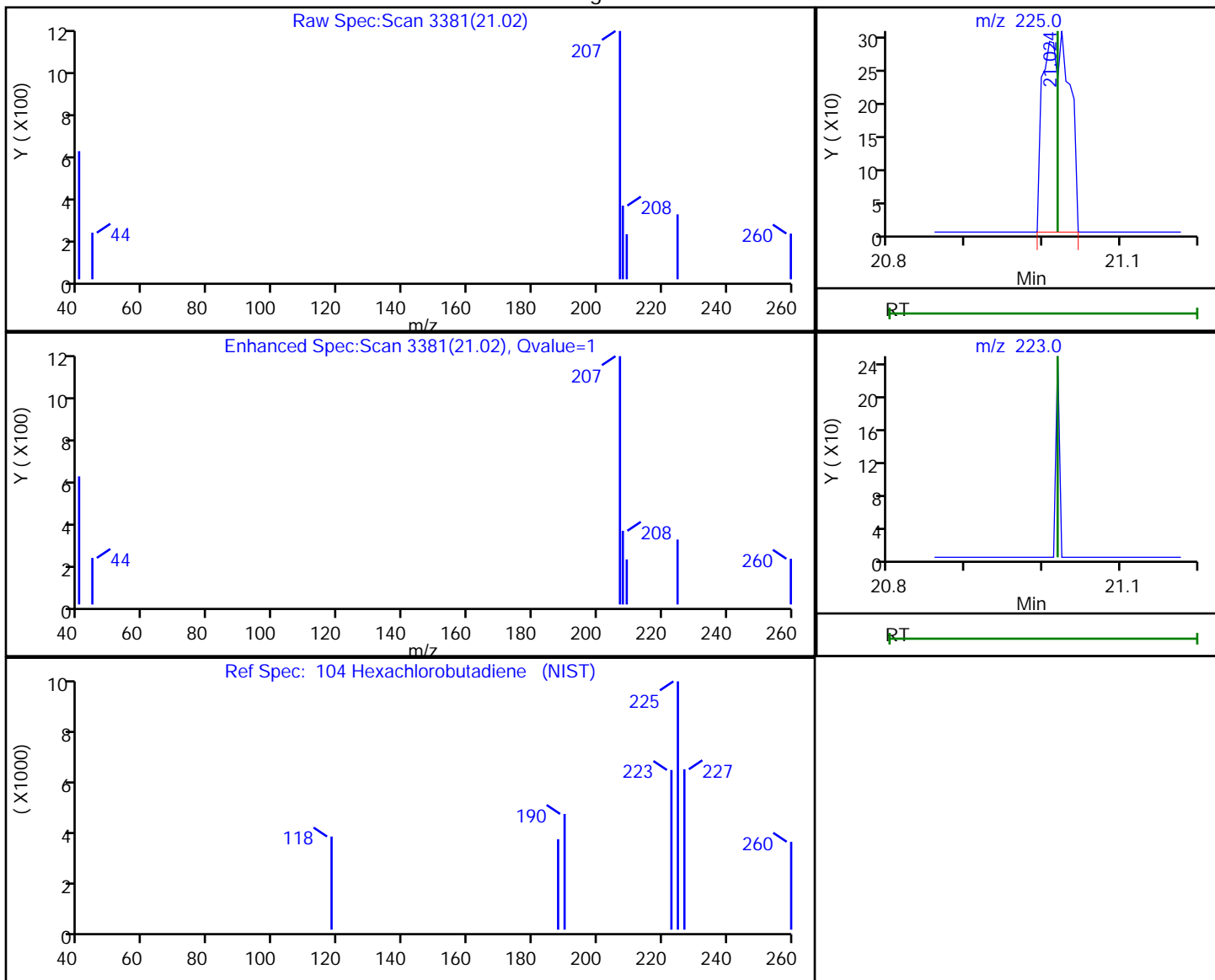
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-05.D  
 Injection Date: 21-Aug-2018 13:00:30 Instrument ID: CHB.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\_LLNJ\_TO3 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
21.02	225.00	718	0.008508
21.02	223.00	0	

Reviewer: puangmaleek, 22-Aug-2018 10:48:25

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-04.d Lab Sample ID: MB 200-133921/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHW.i Date Analyzed: 09/11/2018 14:32  
 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 200-133921/3	32143-03.d	09/11/2018 13:37
4323	200-45152-10	32143-15.d	09/12/2018 00:41



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-04.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Sep-2018 14:32:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0032143-004  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:10:47 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 13:10:47

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		5.042					ND	U
2 Dichlorodifluoromethane	85		5.154					ND	
3 Chlorodifluoromethane	51		5.235					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556					ND	
5 Chloromethane	50		5.753					ND	
6 Butane	43		6.021					ND	
7 Vinyl chloride	62		6.080					ND	
8 Butadiene	54		6.171					ND	
9 Bromomethane	94		6.963					ND	
11 Chloroethane	64		7.219					ND	
12 2-Methylbutane	43		7.289					ND	
13 Vinyl bromide	106		7.626					ND	
14 Trichlorofluoromethane	101		7.717					ND	
15 Pentane	43		7.851					ND	
16 Ethanol	45		8.225					ND	
17 Ethyl ether	59		8.327					ND	
T 18 Methyl Acetate TIC	43		8.560					ND	
19 Acrolein	56		8.712					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723					ND	
21 1,1-Dichloroethene	96		8.787					ND	
22 Acetone	43	9.001	8.979	0.022	97	8852		0.4433	
23 Carbon disulfide	76		9.183					ND	
24 Isopropyl alcohol	45	9.199	9.188	0.011	98	10341		0.4901	
25 3-Chloro-1-propene	41		9.488					ND	U
26 Acetonitrile	41		9.605					ND	
27 Methylene Chloride	49		9.744					ND	U
28 2-Methyl-2-propanol	59		9.867					ND	
29 Methyl tert-butyl ether	73		10.076					ND	
30 trans-1,2-Dichloroethene	61		10.140					ND	
S 31 1,2-Dichloroethene, Total	61		10.200					ND	
32 Acrylonitrile	53		10.274					ND	
33 Hexane	57		10.467					ND	

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		10.932					ND	
35 Vinyl acetate	43		10.959					ND	
36 cis-1,2-Dichloroethene	96		11.938					ND	
37 2-Butanone (MEK)	72		11.948					ND	
38 Ethyl acetate	88		11.959					ND	
39 Tetrahydrofuran	42		12.355					ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	91	91677	10.0	10.0	
41 Chloroform	83		12.457					ND	
42 Cyclohexane	84		12.719					ND	
43 1,1,1-Trichloroethane	97		12.735					ND	
44 Carbon tetrachloride	117		12.960					ND	
45 Isooctane	57		13.307					ND	
46 Benzene	78		13.371					ND	U
47 1,2-Dichloroethane	62		13.521					ND	
48 n-Heptane	43		13.628					ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	456636	10.0	10.0	
50 n-Butanol	56		14.329					ND	
51 Trichloroethene	95		14.495					ND	
A 52 GRO	1	14.717	(7.279-22.155)		0	1767627		0	
53 1,2-Dichloropropane	63		14.982					ND	
T 54 Methyl cyclohexane TIC	55		15.012					ND	
55 Methyl methacrylate	69		15.067					ND	
56 1,4-Dioxane	88		15.153					ND	
57 Dibromomethane	174		15.212					ND	
58 Dichlorobromomethane	83		15.447					ND	
59 cis-1,3-Dichloropropene	75		16.271					ND	
A 60 TVOC as Toluene	92	16.391	(5.032-27.751)		0	2022464		67.0	
61 4-Methyl-2-pentanone (MIBK)	43		16.501					ND	
62 n-Octane	43		16.817					ND	
63 Toluene	92		16.817					ND	
64 trans-1,3-Dichloropropene	75		17.341					ND	
65 1,1,2-Trichloroethane	83		17.694					ND	
66 Tetrachloroethene	166		17.812					ND	
67 2-Hexanone	43		18.085					ND	
68 Chlorodibromomethane	129		18.422					ND	
69 Ethylene Dibromide	107		18.689					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	378094	10.0	10.0	
72 Chlorobenzene	112		19.593					ND	
73 Ethylbenzene	91		19.716					ND	U
74 n-Nonane	57		19.796					ND	
75 m-Xylene & p-Xylene	106		19.957					ND	
S 76 Xylenes, Total	106		20.100					ND	
77 o-Xylene	106		20.727					ND	
78 Styrene	104		20.770					ND	
79 Bromoform	173		21.166					ND	
80 Isopropylbenzene	105		21.332					ND	
81 1,1,2,2-Tetrachloroethane	83		21.936					ND	U
82 N-Propylbenzene	91		22.006					ND	U
83 1,2,3-Trichloropropane	75		22.038					ND	
84 n-Decane	57		22.145					ND	
85 4-Ethyltoluene	105		22.182					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
86 2-Chlorotoluene	91		22.204					ND	U
87 1,3,5-Trimethylbenzene	105		22.284					ND	U
88 Alpha Methyl Styrene	118		22.637					ND	
89 tert-Butylbenzene	119		22.760					ND	U
90 1,2,4-Trimethylbenzene	105		22.851					ND	U
91 sec-Butylbenzene	105		23.076					ND	U
92 4-Isopropyltoluene	119		23.274					ND	
93 1,3-Dichlorobenzene	146		23.322					ND	U
94 1,4-Dichlorobenzene	146		23.461					ND	U
95 Benzyl chloride	91		23.664					ND	
97 Undecane	57		23.873					ND	
96 n-Butylbenzene	91		23.873					ND	
98 1,2-Dichlorobenzene	146		24.023					ND	
99 Dodecane	57		25.558					ND	
100 1,2,4-Trichlorobenzene	180		26.698					ND	
101 Hexachlorobutadiene	225		26.885					ND	U
102 Naphthalene	128		27.227					ND	
103 1,2,3-Trichlorobenzene	180		27.741					ND	
T 104 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 105 Methyl acetylene TIC	1		0.000					ND	
106 Total Alkanes	1		0.000					ND	
T 107 1,3-Dichloropropane TIC	1		0.000					ND	
T 108 Freon 115 TIC	1		0.000					ND	
T 109 Difluoroethane TIC	1		0.000					ND	
T 110 Chlorotrifluoroethene TIC	1		0.000					ND	
T 111 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d

Injection Date: 11-Sep-2018 14:32:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

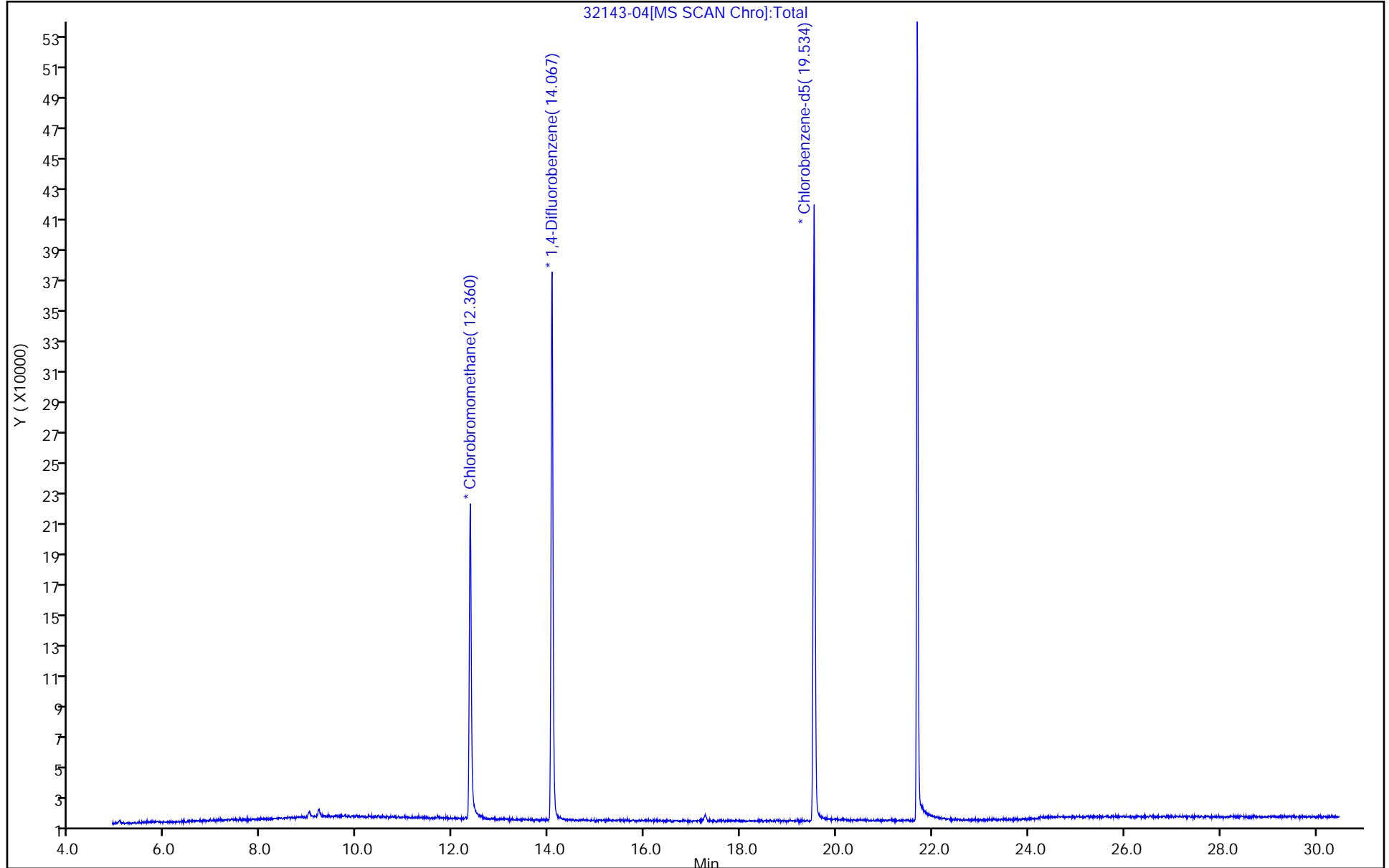
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

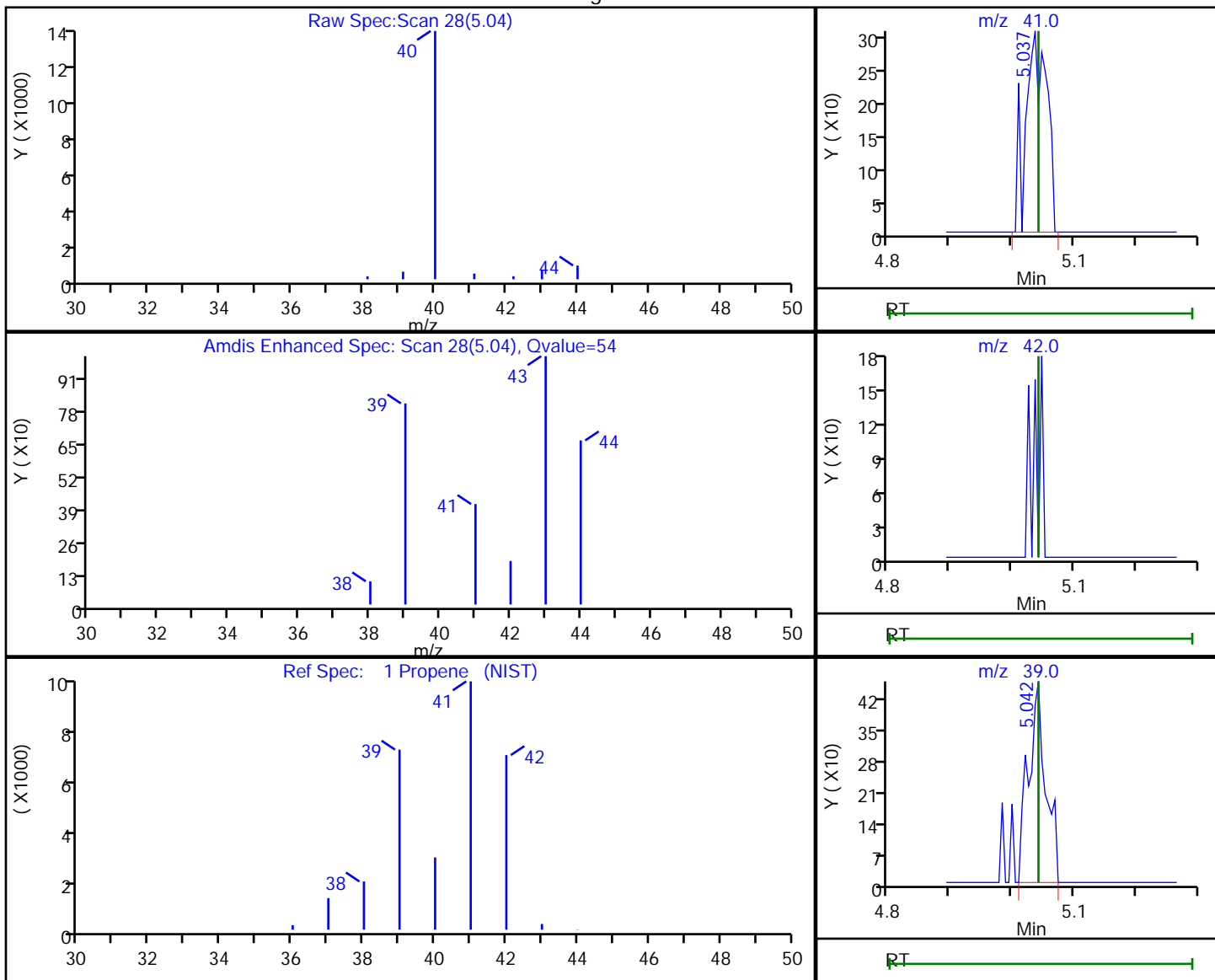


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
5.04	41.00	716	0.064441
5.04	42.00	0	
5.04	39.00	890	

Reviewer: puangmaleek, 12-Sep-2018 13:07:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

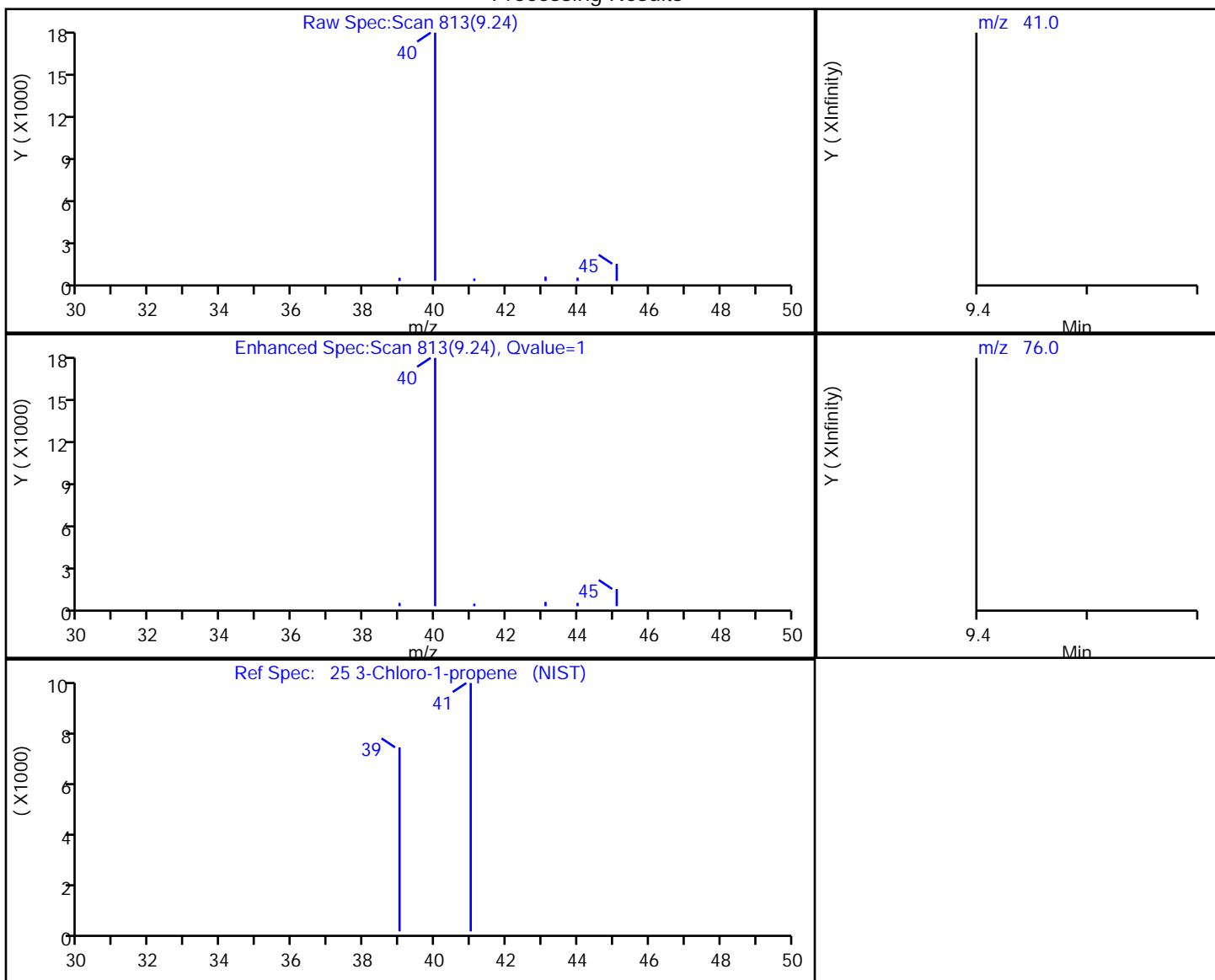


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
9.24	41.00	108	0.007141
9.49	76.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:07:53

Audit Action: Marked Compound Undetected

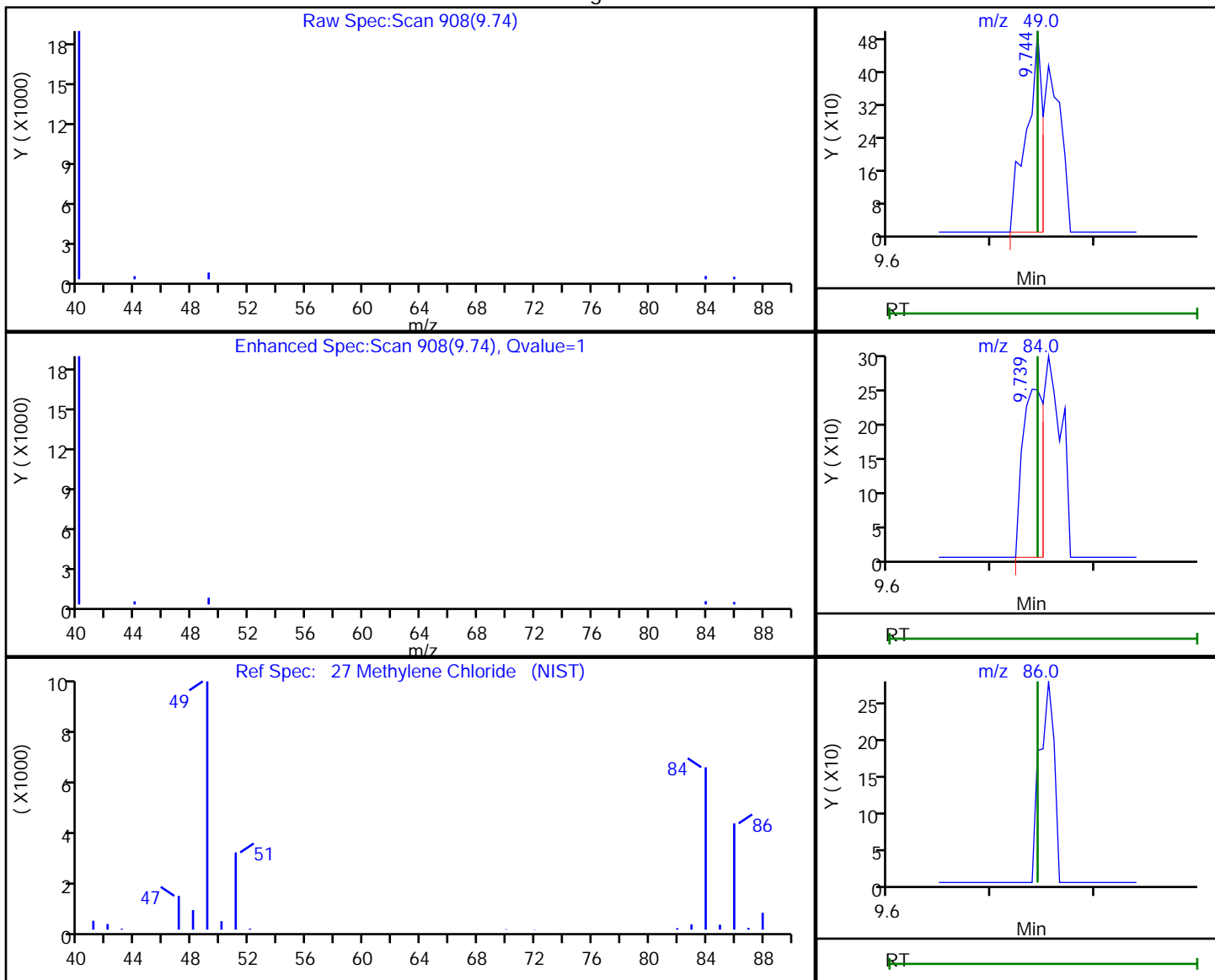
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	529	0.033234
9.74	84.00	347	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:09

Audit Action: Marked Compound Undetected

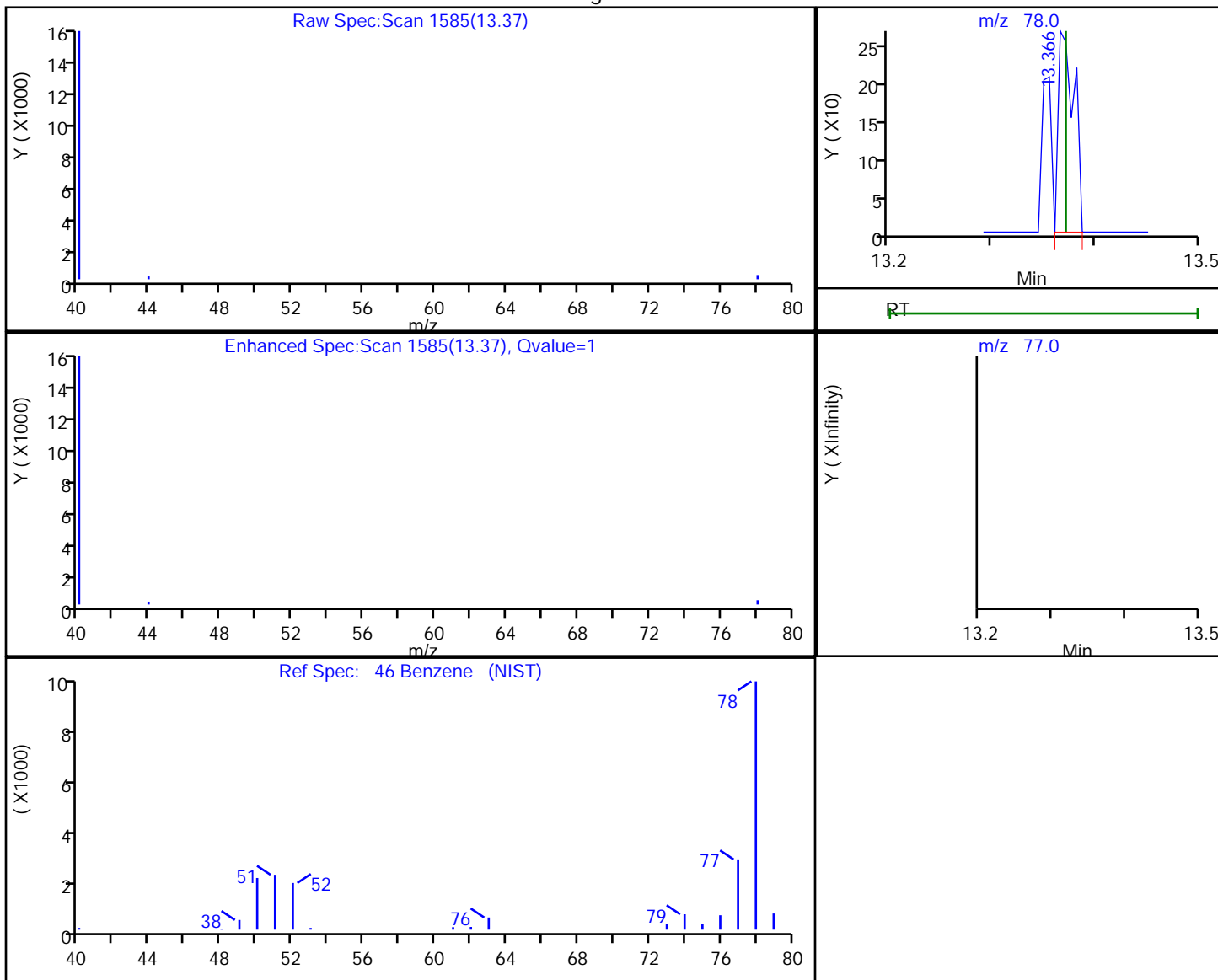
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
13.37	78.00	285	0.006898
13.37	77.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:40

Audit Action: Marked Compound Undetected

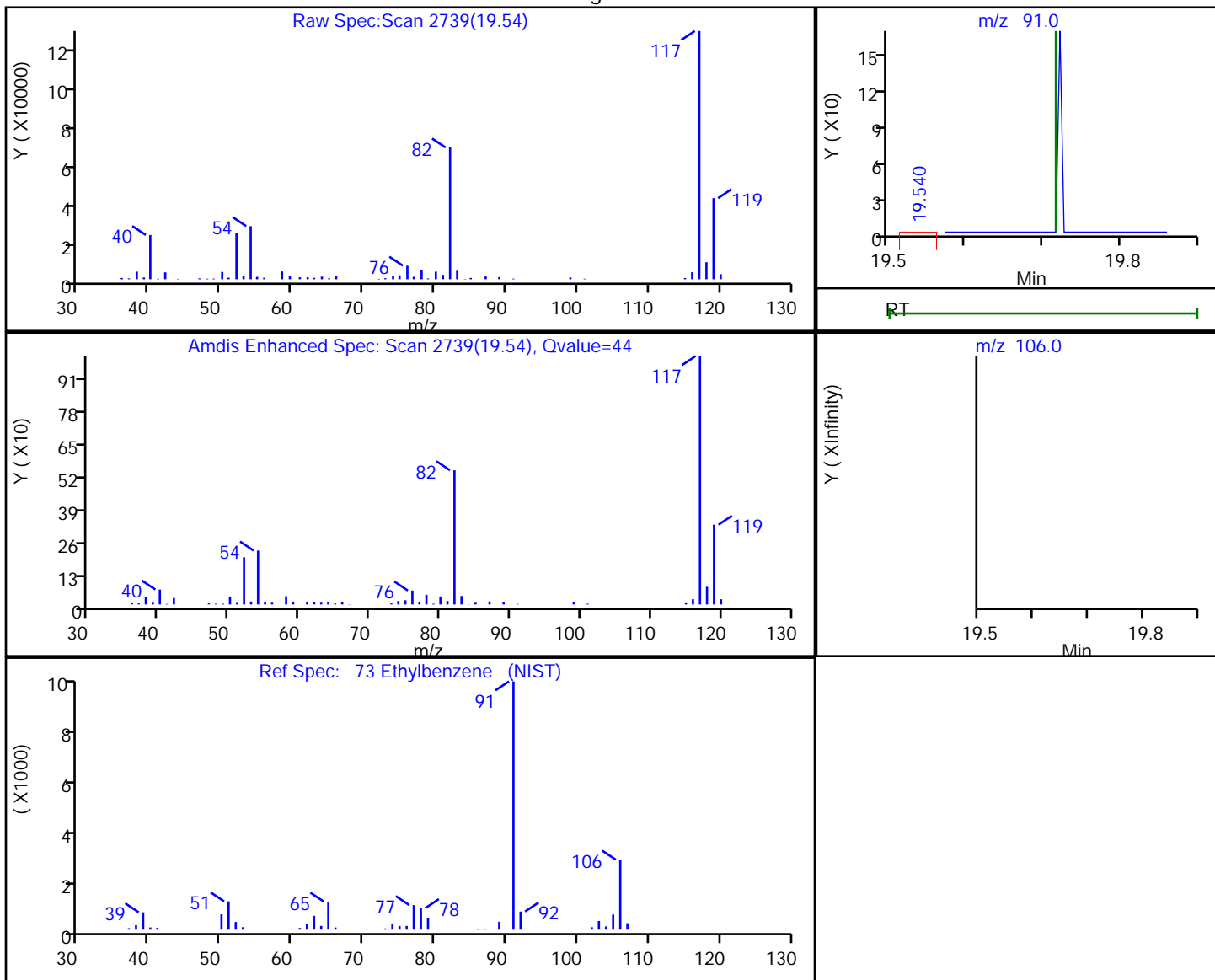
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	603	0.010890
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:10

Audit Action: Marked Compound Undetected

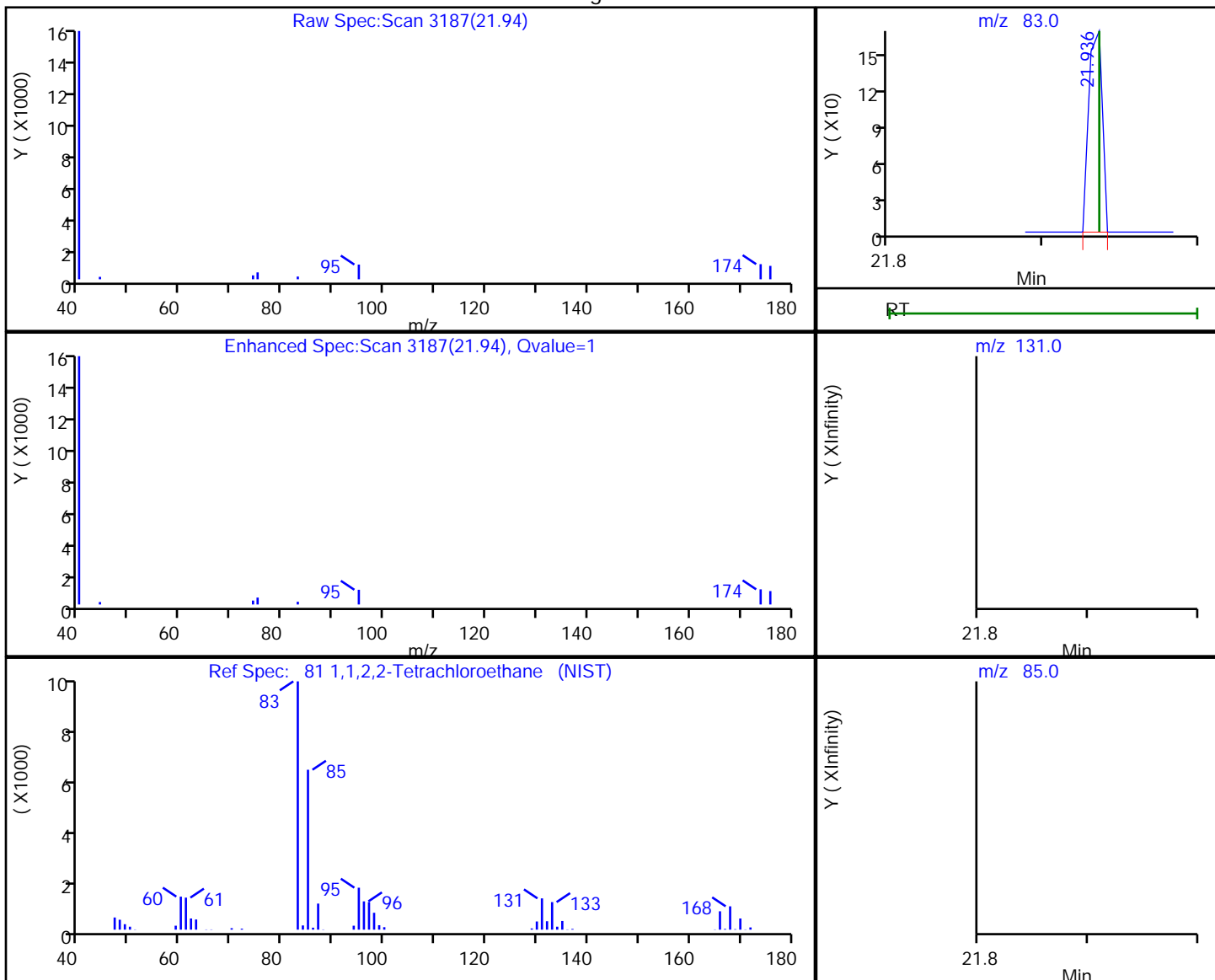
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

81 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
21.94	83.00	102	0.002836
21.94	131.00	0	
21.94	85.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:18

Audit Action: Marked Compound Undetected

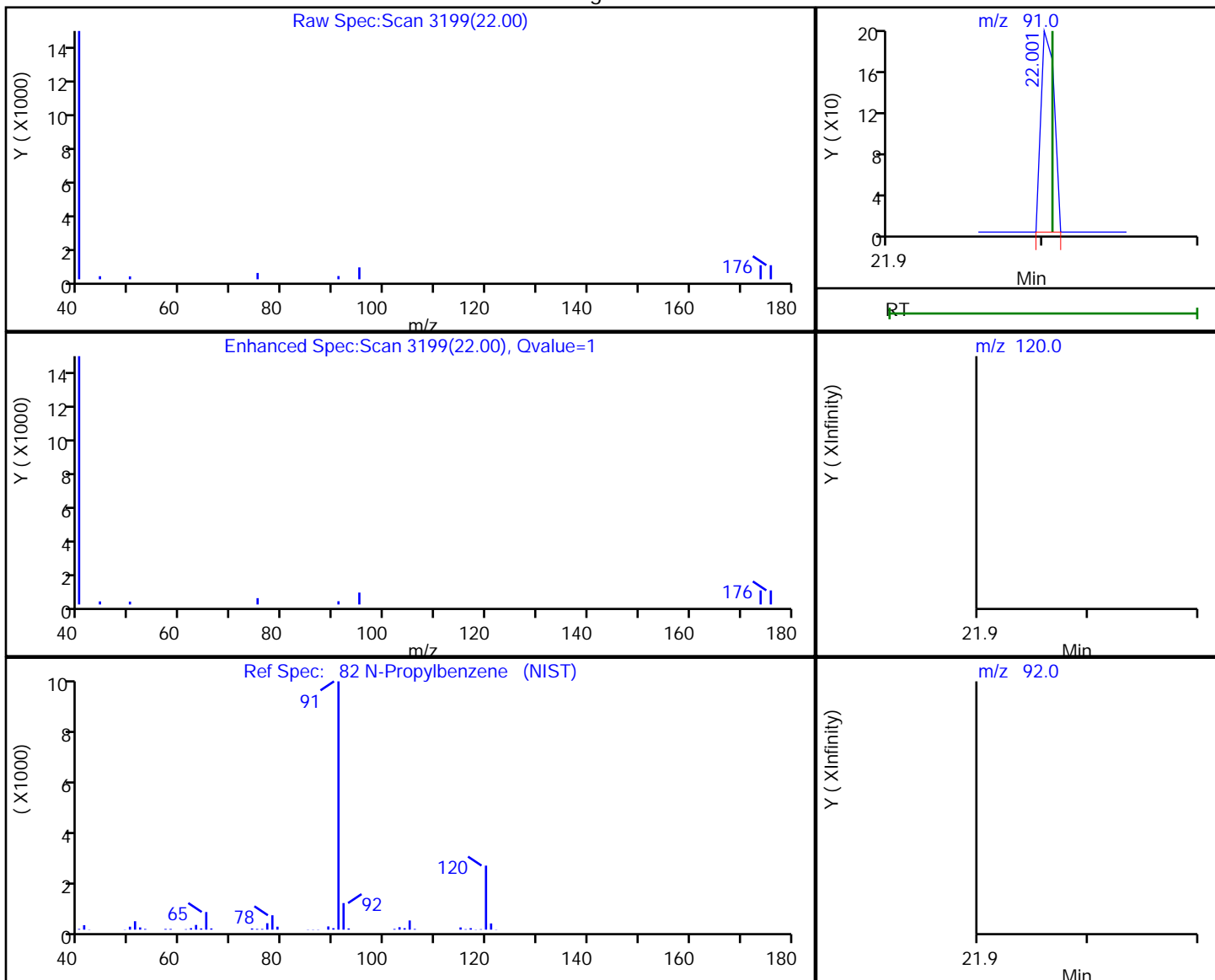
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.001542
22.01	120.00	0	
22.01	92.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:23

Audit Action: Marked Compound Undetected

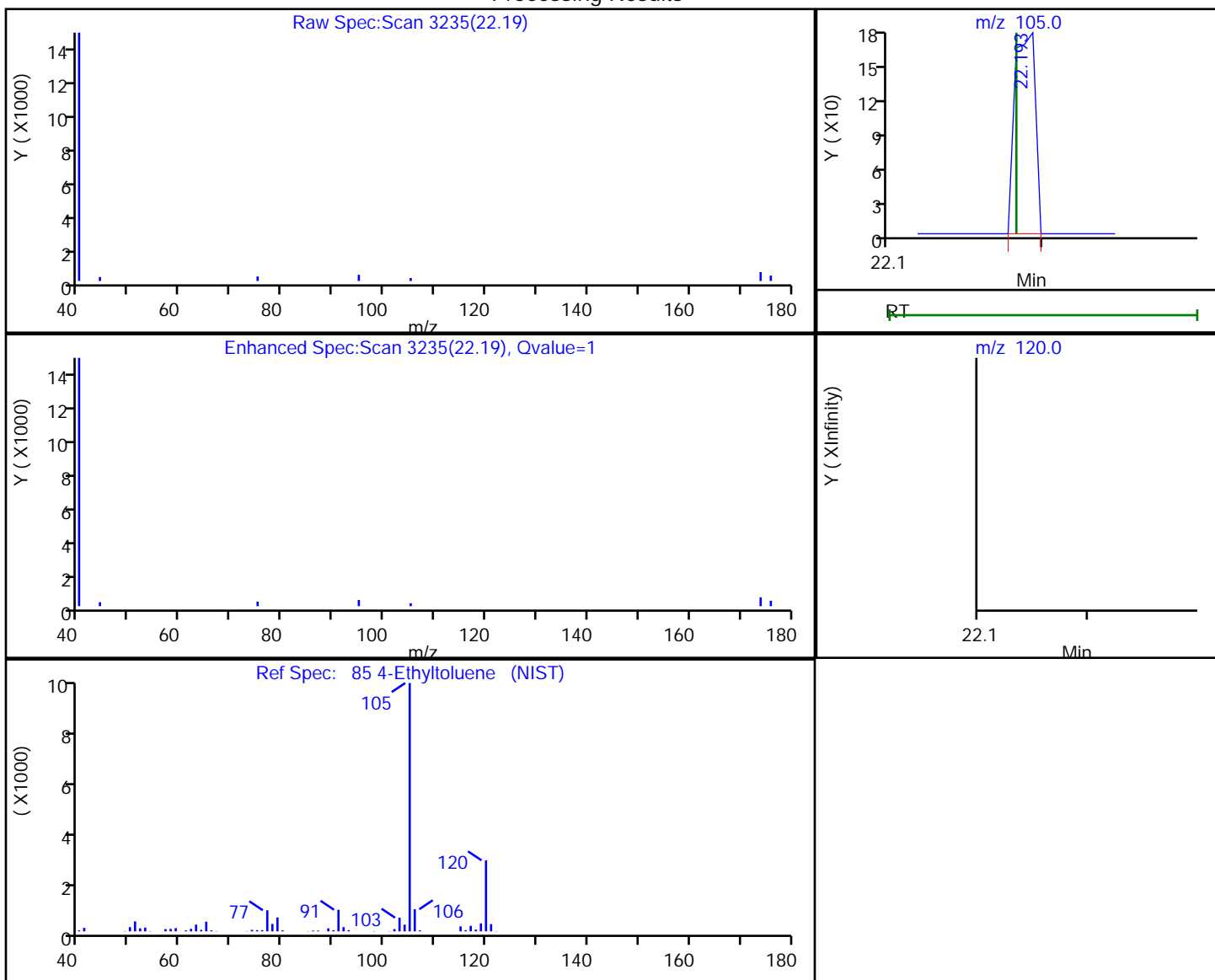
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

85 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002516
22.18	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:39

Audit Action: Marked Compound Undetected

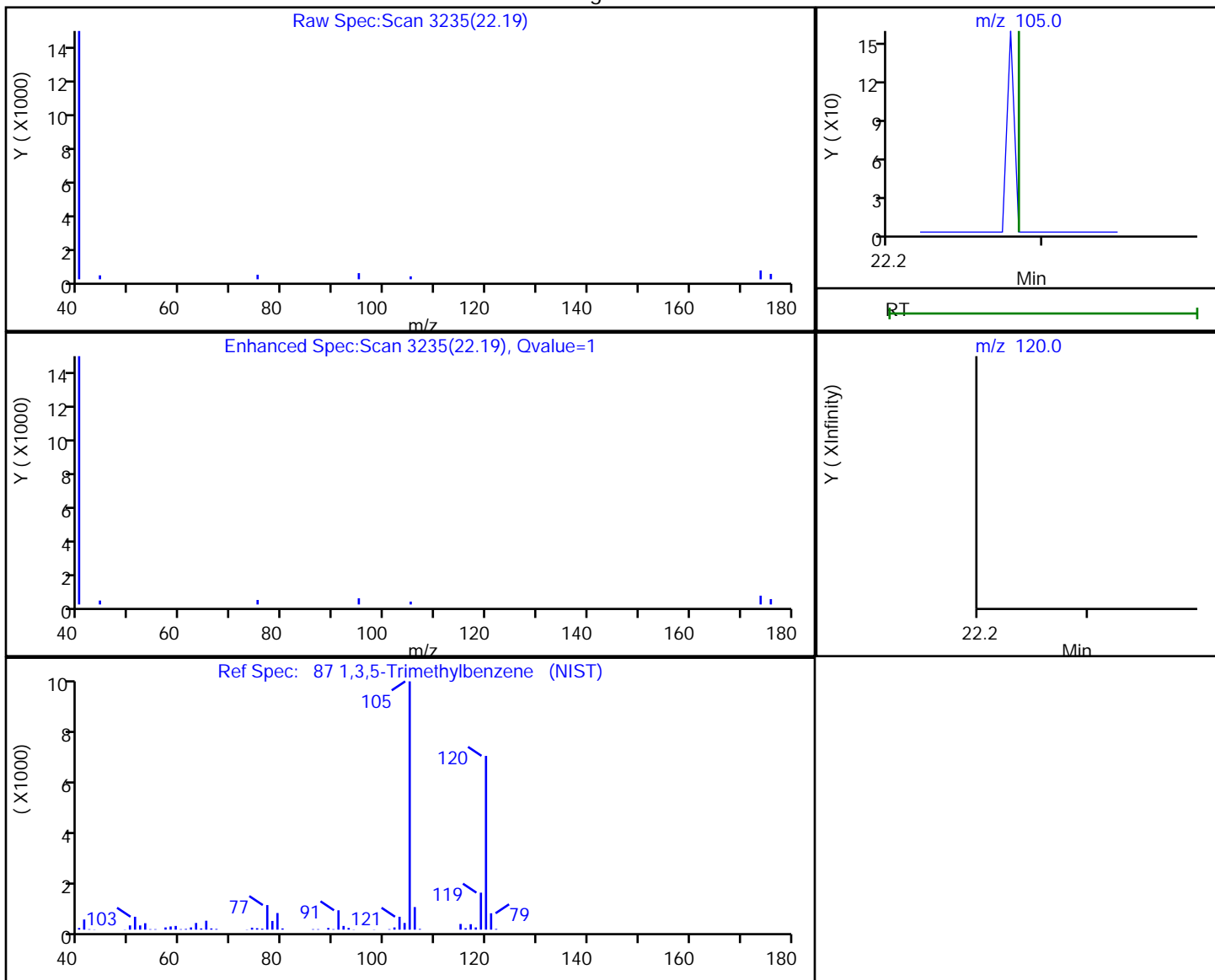
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002964
22.28	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

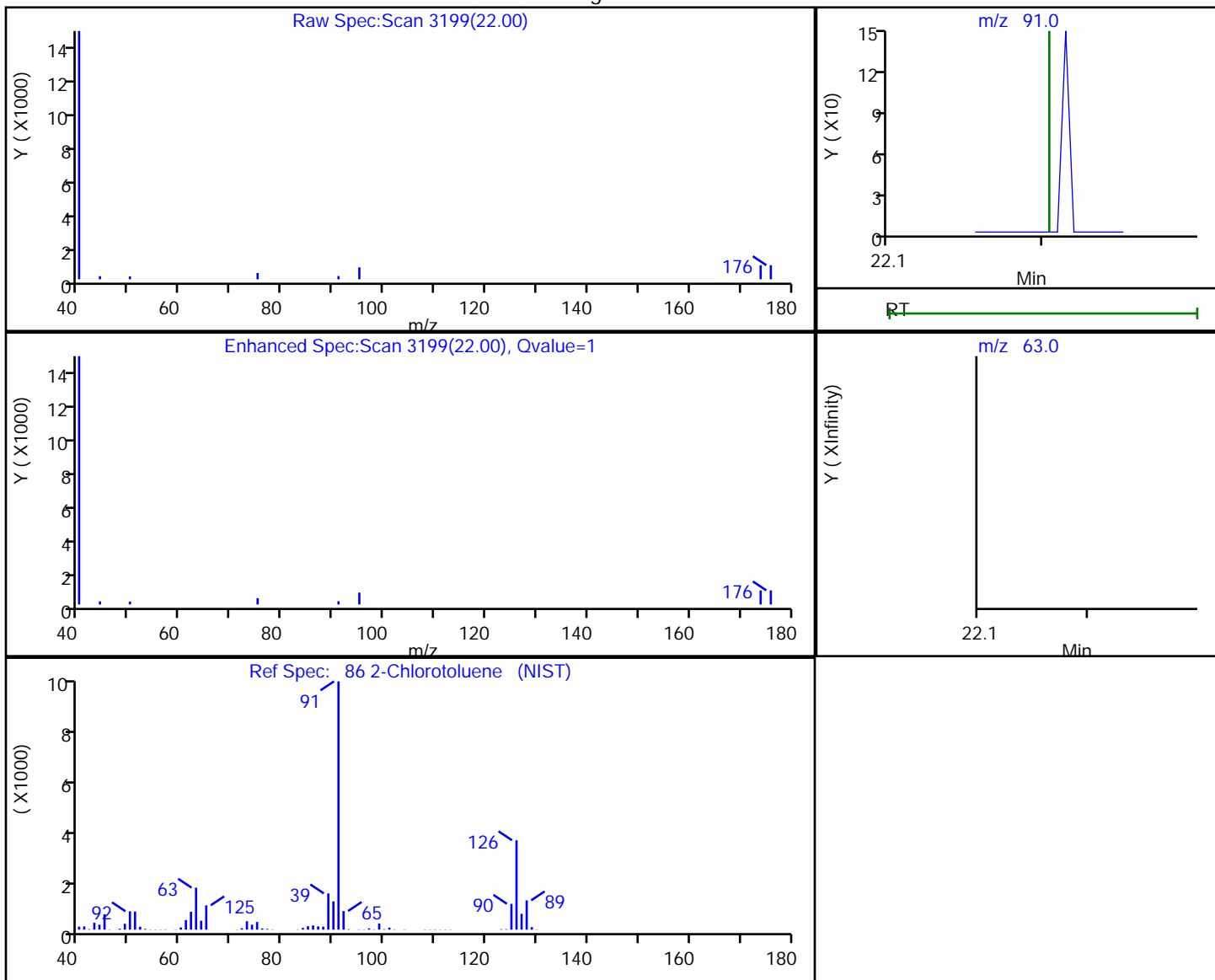


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.002064
22.20	63.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:51

Audit Action: Marked Compound Undetected

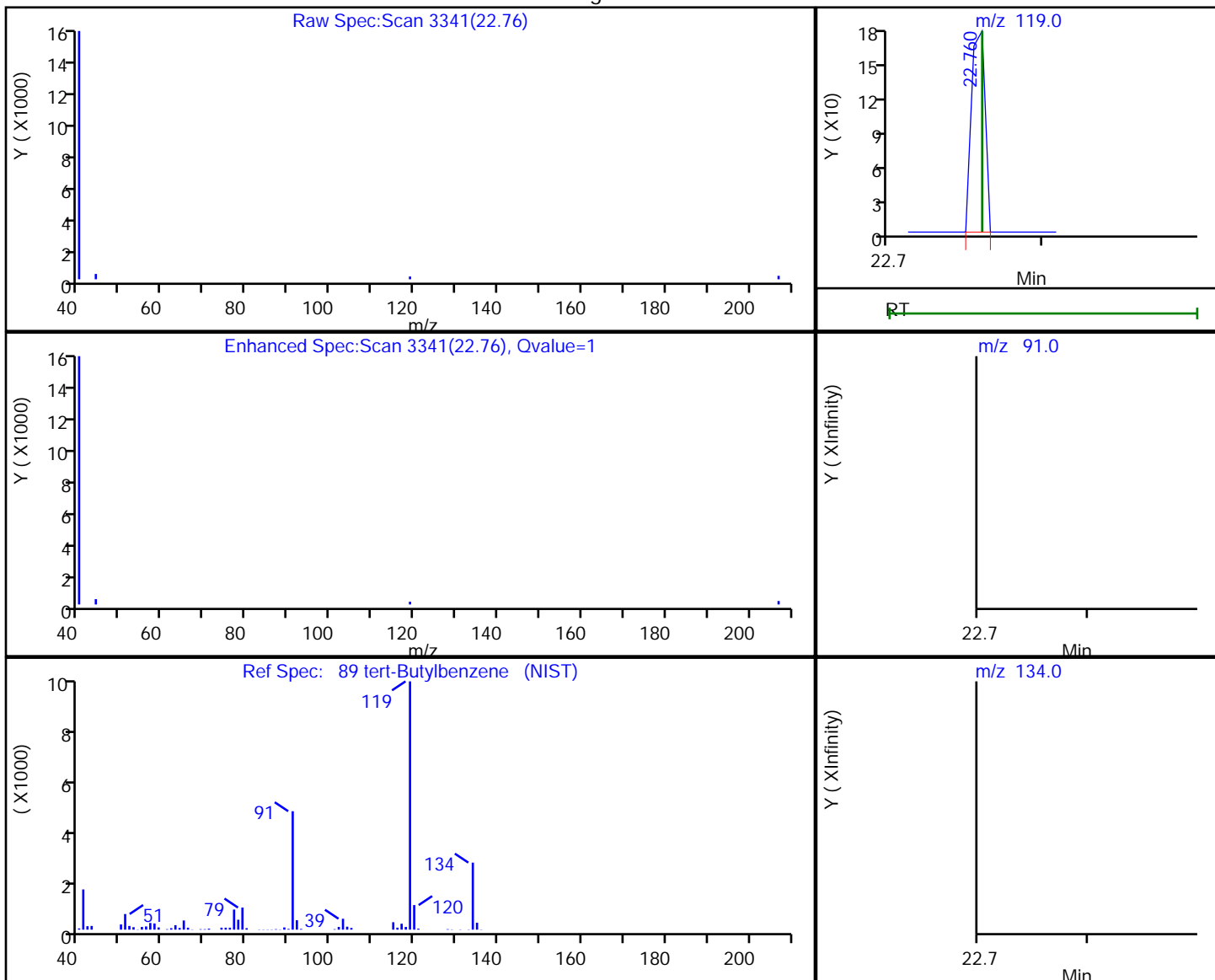
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.76	119.00	108	0.002124
22.76	91.00	0	
22.76	134.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:57

Audit Action: Marked Compound Undetected

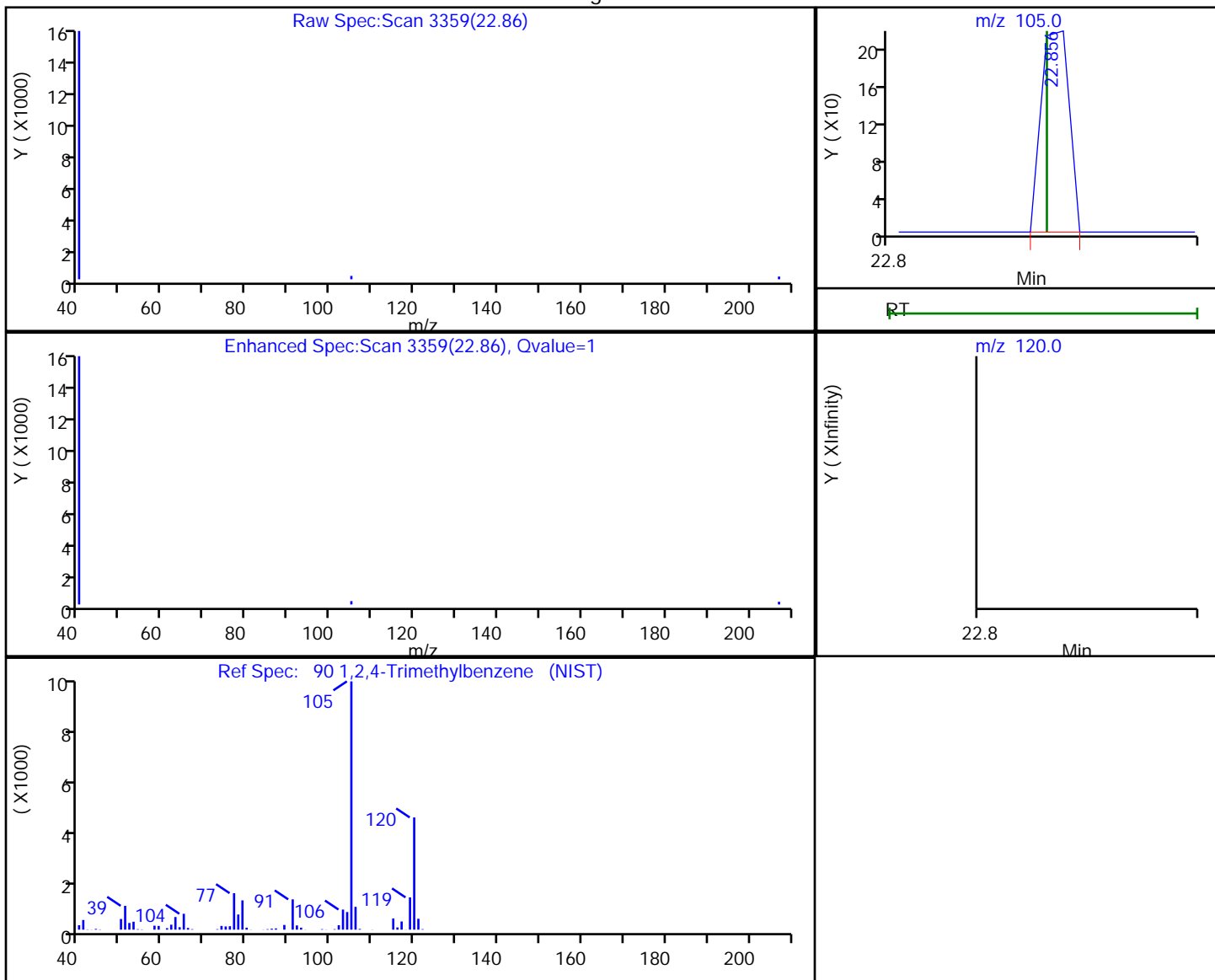
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
22.86	105.00	135	0.002651
22.85	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:58

Audit Action: Marked Compound Undetected

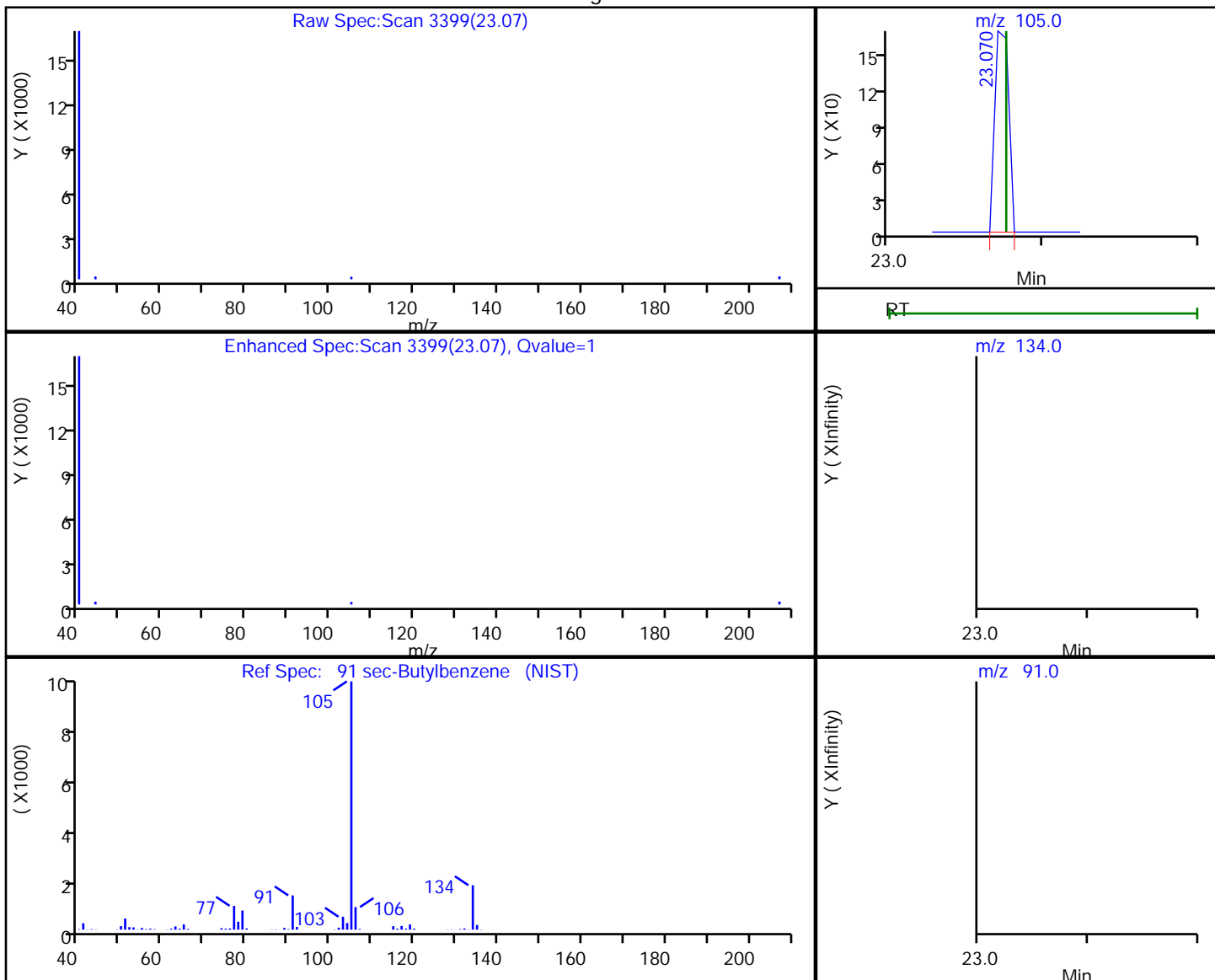
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

91 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
23.07	105.00	101	0.001288
23.08	134.00	0	
23.08	91.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:59

Audit Action: Marked Compound Undetected

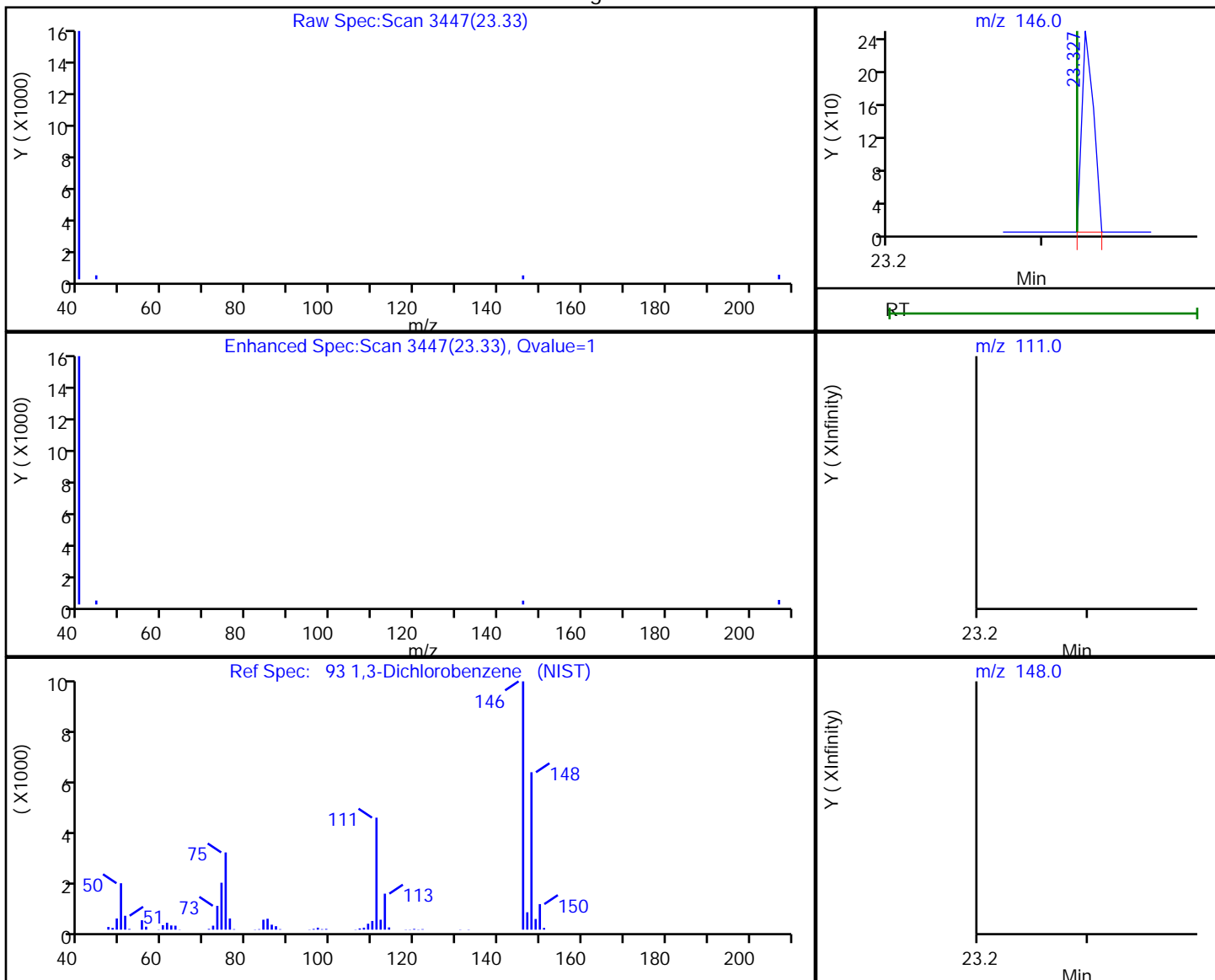
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003733
23.32	111.00	0	
23.32	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:03

Audit Action: Marked Compound Undetected

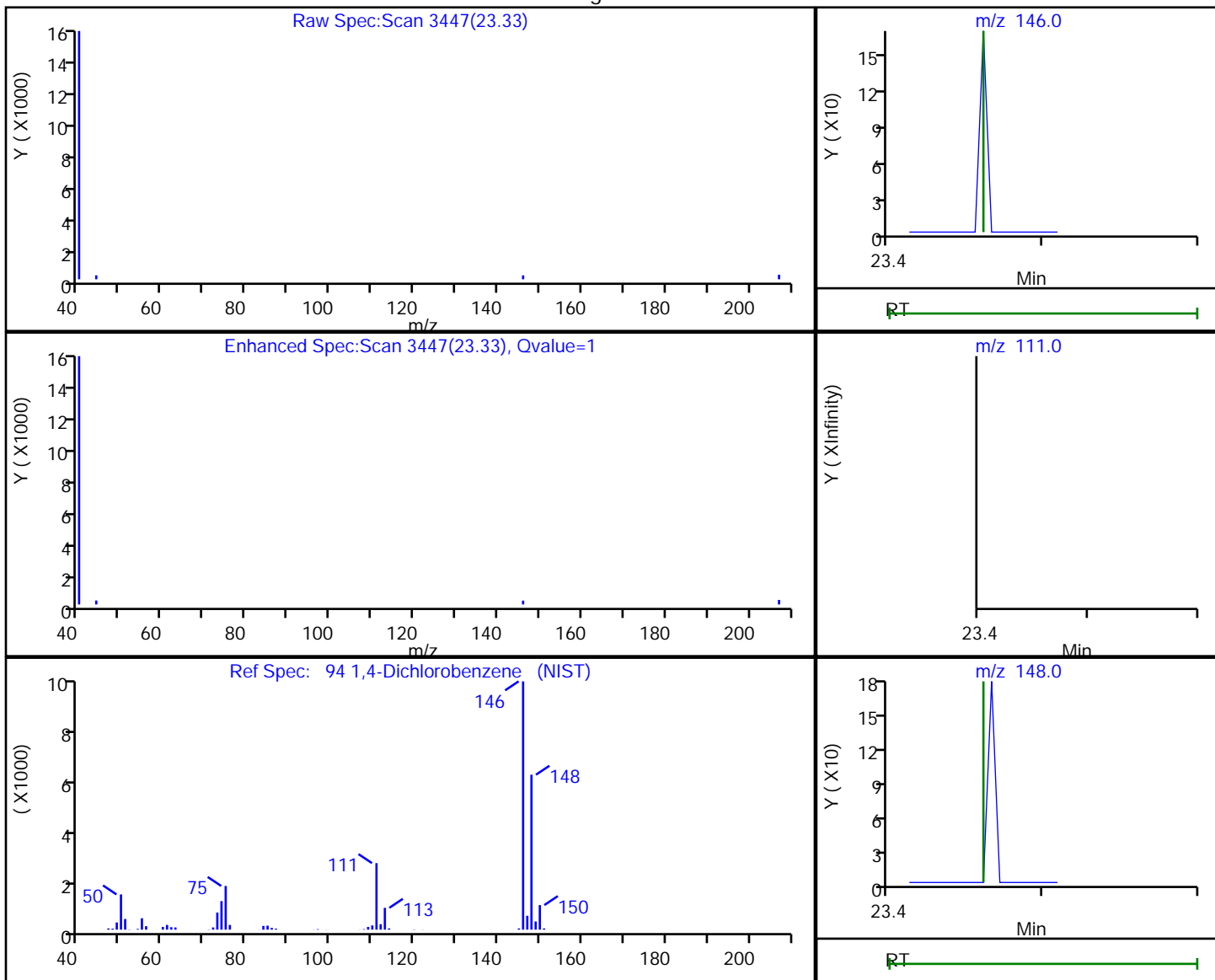
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003913
23.46	111.00	0	
23.46	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:05

Audit Action: Marked Compound Undetected

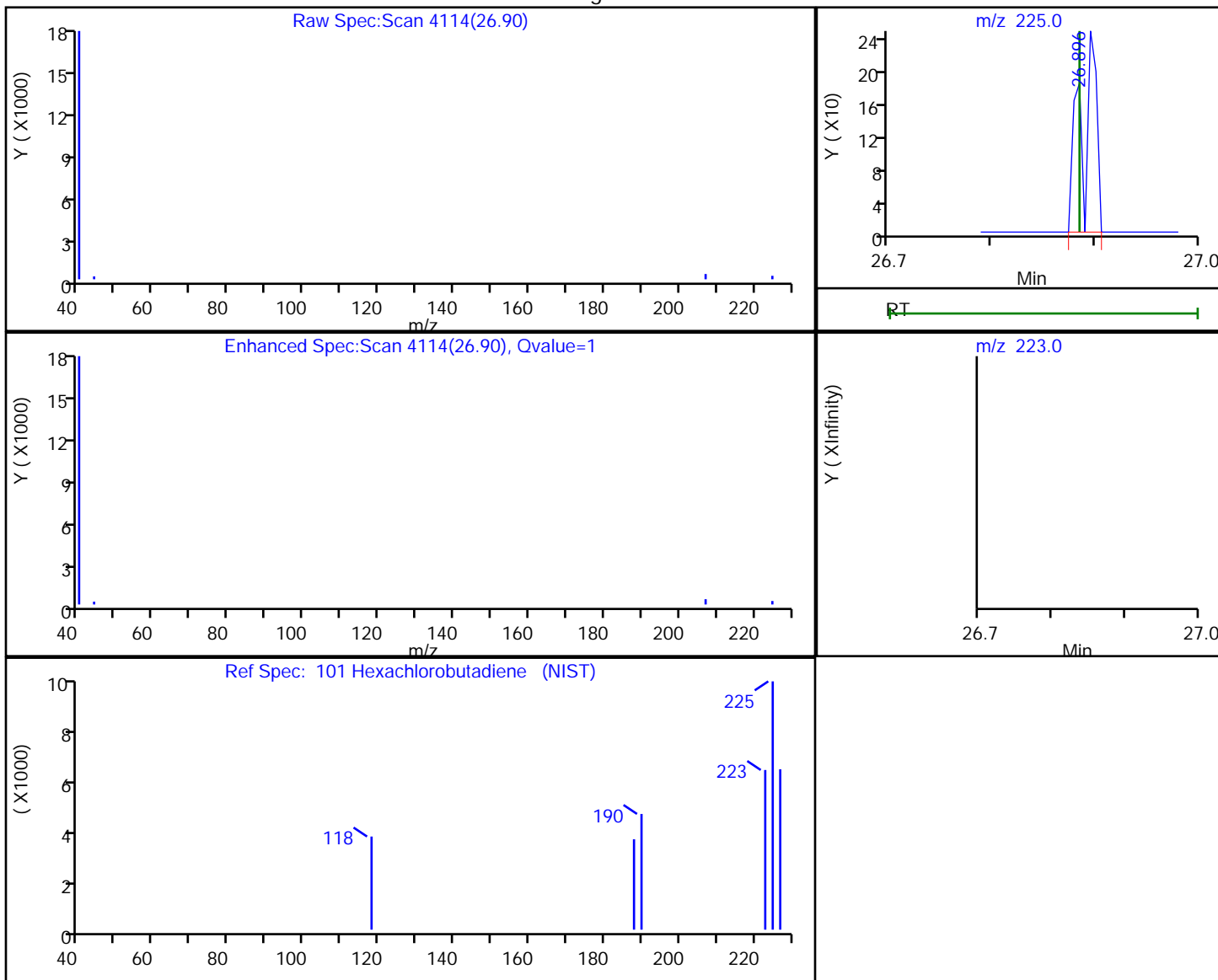
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



Reviewer: puangmaleek, 12-Sep-2018 13:10:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-04.d Lab Sample ID: MB 200-133921/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHW.i Date Analyzed: 09/11/2018 14:32  
 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 200-133921/3	32143-03.d	09/11/2018 13:37
4249	200-45174-12	32143-20.d	09/12/2018 05:18



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-04.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Sep-2018 14:32:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0032143-004  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:10:47 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek

Date: 12-Sep-2018 13:10:47

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		5.042					ND	U
2 Dichlorodifluoromethane	85		5.154					ND	
3 Chlorodifluoromethane	51		5.235					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556					ND	
5 Chloromethane	50		5.753					ND	
6 Butane	43		6.021					ND	
7 Vinyl chloride	62		6.080					ND	
8 Butadiene	54		6.171					ND	
9 Bromomethane	94		6.963					ND	
11 Chloroethane	64		7.219					ND	
12 2-Methylbutane	43		7.289					ND	
13 Vinyl bromide	106		7.626					ND	
14 Trichlorofluoromethane	101		7.717					ND	
15 Pentane	43		7.851					ND	
16 Ethanol	45		8.225					ND	
17 Ethyl ether	59		8.327					ND	
T 18 Methyl Acetate TIC	43		8.560					ND	
19 Acrolein	56		8.712					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723					ND	
21 1,1-Dichloroethene	96		8.787					ND	
22 Acetone	43	9.001	8.979	0.022	97	8852		0.4433	
23 Carbon disulfide	76		9.183					ND	
24 Isopropyl alcohol	45	9.199	9.188	0.011	98	10341		0.4901	
25 3-Chloro-1-propene	41		9.488					ND	U
26 Acetonitrile	41		9.605					ND	
27 Methylene Chloride	49		9.744					ND	U
28 2-Methyl-2-propanol	59		9.867					ND	
29 Methyl tert-butyl ether	73		10.076					ND	
30 trans-1,2-Dichloroethene	61		10.140					ND	
S 31 1,2-Dichloroethene, Total	61		10.200					ND	
32 Acrylonitrile	53		10.274					ND	
33 Hexane	57		10.467					ND	

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		10.932					ND	
35 Vinyl acetate	43		10.959					ND	
36 cis-1,2-Dichloroethene	96		11.938					ND	
37 2-Butanone (MEK)	72		11.948					ND	
38 Ethyl acetate	88		11.959					ND	
39 Tetrahydrofuran	42		12.355					ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	91	91677	10.0	10.0	
41 Chloroform	83		12.457					ND	
42 Cyclohexane	84		12.719					ND	
43 1,1,1-Trichloroethane	97		12.735					ND	
44 Carbon tetrachloride	117		12.960					ND	
45 Isooctane	57		13.307					ND	
46 Benzene	78		13.371					ND	U
47 1,2-Dichloroethane	62		13.521					ND	
48 n-Heptane	43		13.628					ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	456636	10.0	10.0	
50 n-Butanol	56		14.329					ND	
51 Trichloroethene	95		14.495					ND	
A 52 GRO	1	14.717	(7.279-22.155)		0	1767627		0	
53 1,2-Dichloropropane	63		14.982					ND	
T 54 Methyl cyclohexane TIC	55		15.012					ND	
55 Methyl methacrylate	69		15.067					ND	
56 1,4-Dioxane	88		15.153					ND	
57 Dibromomethane	174		15.212					ND	
58 Dichlorobromomethane	83		15.447					ND	
59 cis-1,3-Dichloropropene	75		16.271					ND	
A 60 TVOC as Toluene	92	16.391	(5.032-27.751)		0	2022464		67.0	
61 4-Methyl-2-pentanone (MIBK)	43		16.501					ND	
62 n-Octane	43		16.817					ND	
63 Toluene	92		16.817					ND	
64 trans-1,3-Dichloropropene	75		17.341					ND	
65 1,1,2-Trichloroethane	83		17.694					ND	
66 Tetrachloroethene	166		17.812					ND	
67 2-Hexanone	43		18.085					ND	
68 Chlorodibromomethane	129		18.422					ND	
69 Ethylene Dibromide	107		18.689					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	378094	10.0	10.0	
72 Chlorobenzene	112		19.593					ND	
73 Ethylbenzene	91		19.716					ND	U
74 n-Nonane	57		19.796					ND	
75 m-Xylene & p-Xylene	106		19.957					ND	
S 76 Xylenes, Total	106		20.100					ND	
77 o-Xylene	106		20.727					ND	
78 Styrene	104		20.770					ND	
79 Bromoform	173		21.166					ND	
80 Isopropylbenzene	105		21.332					ND	
81 1,1,2,2-Tetrachloroethane	83		21.936					ND	U
82 N-Propylbenzene	91		22.006					ND	U
83 1,2,3-Trichloropropane	75		22.038					ND	
84 n-Decane	57		22.145					ND	
85 4-Ethyltoluene	105		22.182					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
86 2-Chlorotoluene	91		22.204					ND	U
87 1,3,5-Trimethylbenzene	105		22.284					ND	U
88 Alpha Methyl Styrene	118		22.637					ND	
89 tert-Butylbenzene	119		22.760					ND	U
90 1,2,4-Trimethylbenzene	105		22.851					ND	U
91 sec-Butylbenzene	105		23.076					ND	U
92 4-Isopropyltoluene	119		23.274					ND	
93 1,3-Dichlorobenzene	146		23.322					ND	U
94 1,4-Dichlorobenzene	146		23.461					ND	U
95 Benzyl chloride	91		23.664					ND	
97 Undecane	57		23.873					ND	
96 n-Butylbenzene	91		23.873					ND	
98 1,2-Dichlorobenzene	146		24.023					ND	
99 Dodecane	57		25.558					ND	
100 1,2,4-Trichlorobenzene	180		26.698					ND	
101 Hexachlorobutadiene	225		26.885					ND	U
102 Naphthalene	128		27.227					ND	
103 1,2,3-Trichlorobenzene	180		27.741					ND	
T 104 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 105 Methyl acetylene TIC	1		0.000					ND	
106 Total Alkanes	1		0.000					ND	
T 107 1,3-Dichloropropane TIC	1		0.000					ND	
T 108 Freon 115 TIC	1		0.000					ND	
T 109 Difluoroethane TIC	1		0.000					ND	
T 110 Chlorotrifluoroethene TIC	1		0.000					ND	
T 111 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d

Injection Date: 11-Sep-2018 14:32:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

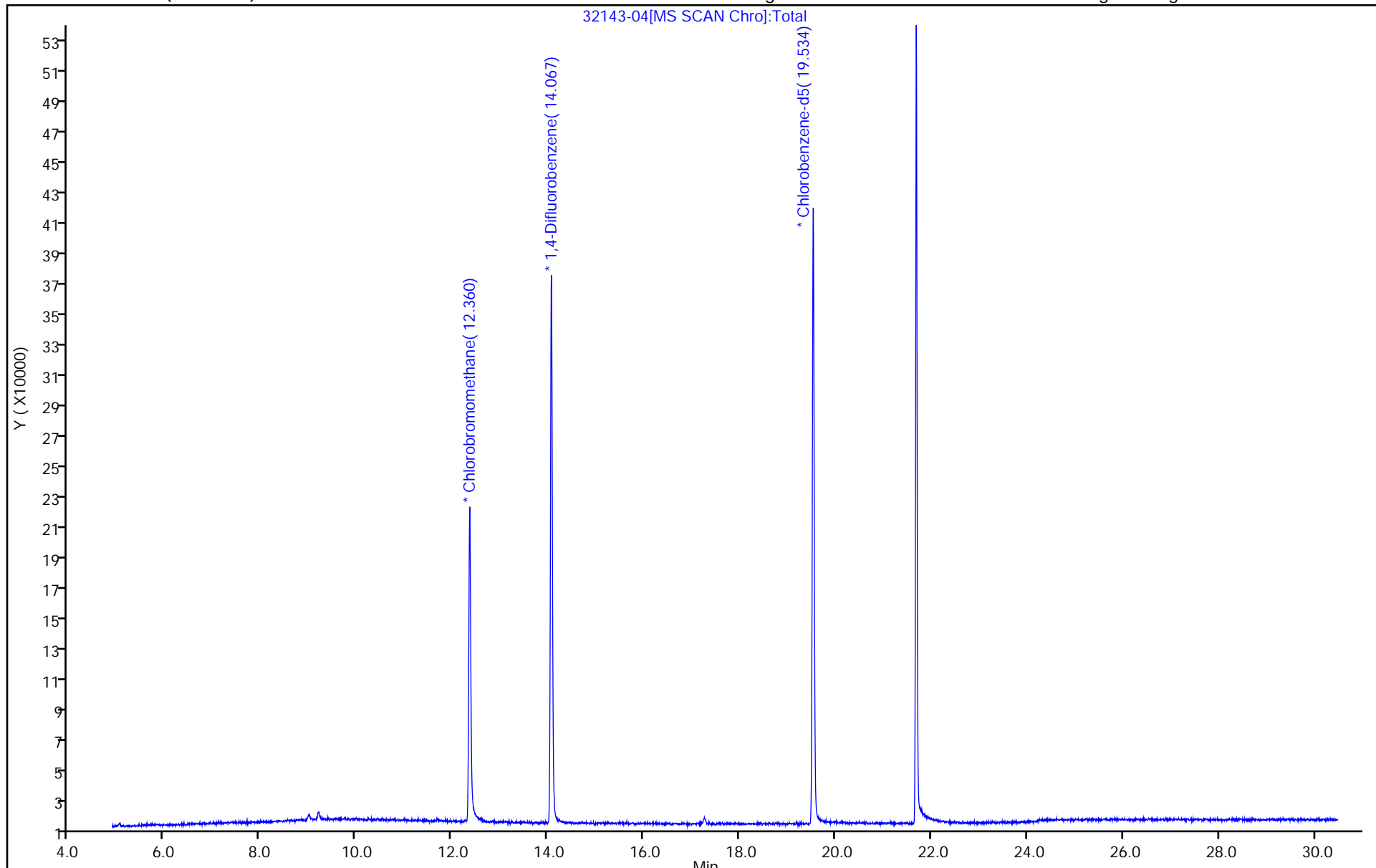
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

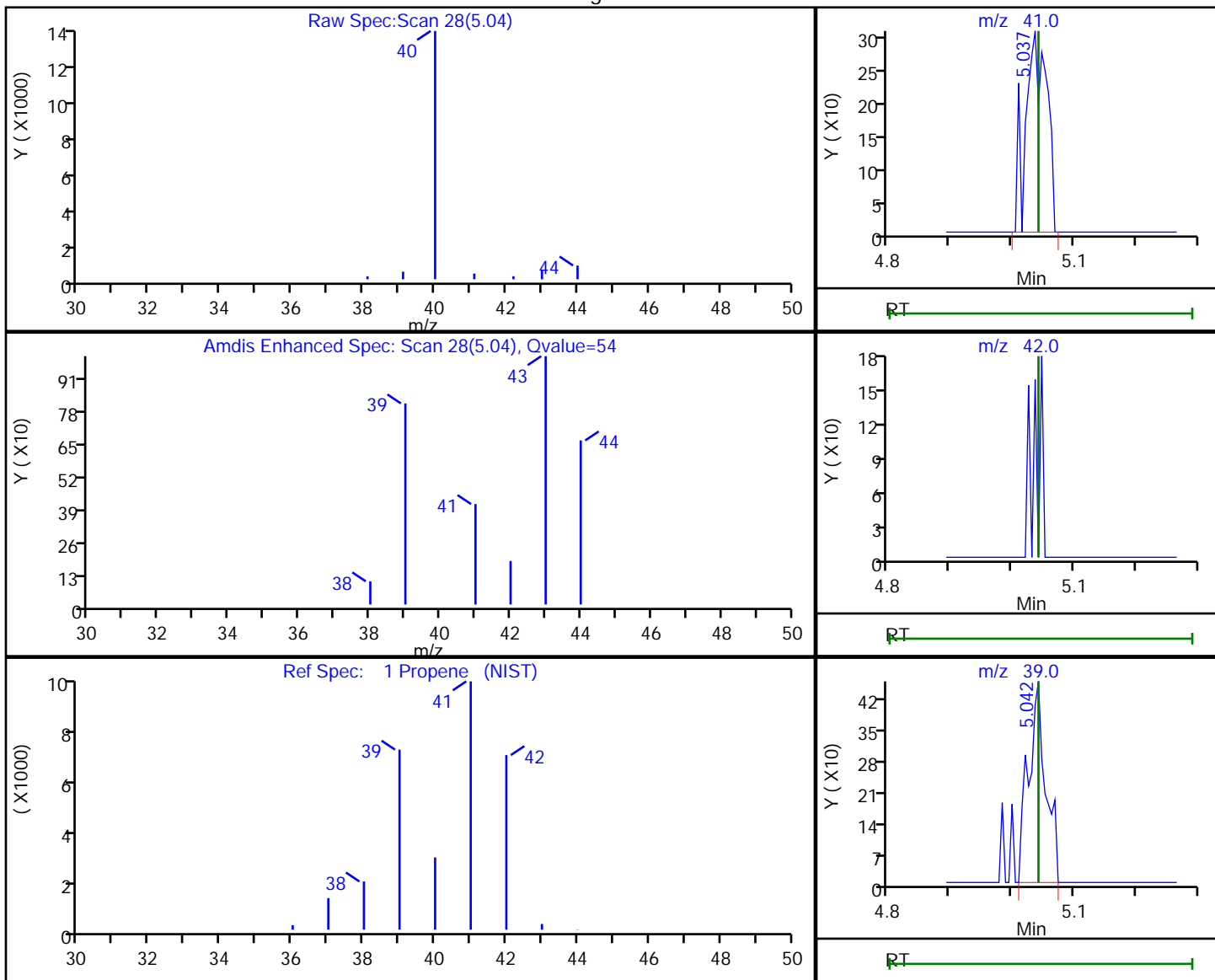


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
5.04	41.00	716	0.064441
5.04	42.00	0	
5.04	39.00	890	

Reviewer: puangmaleek, 12-Sep-2018 13:07:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

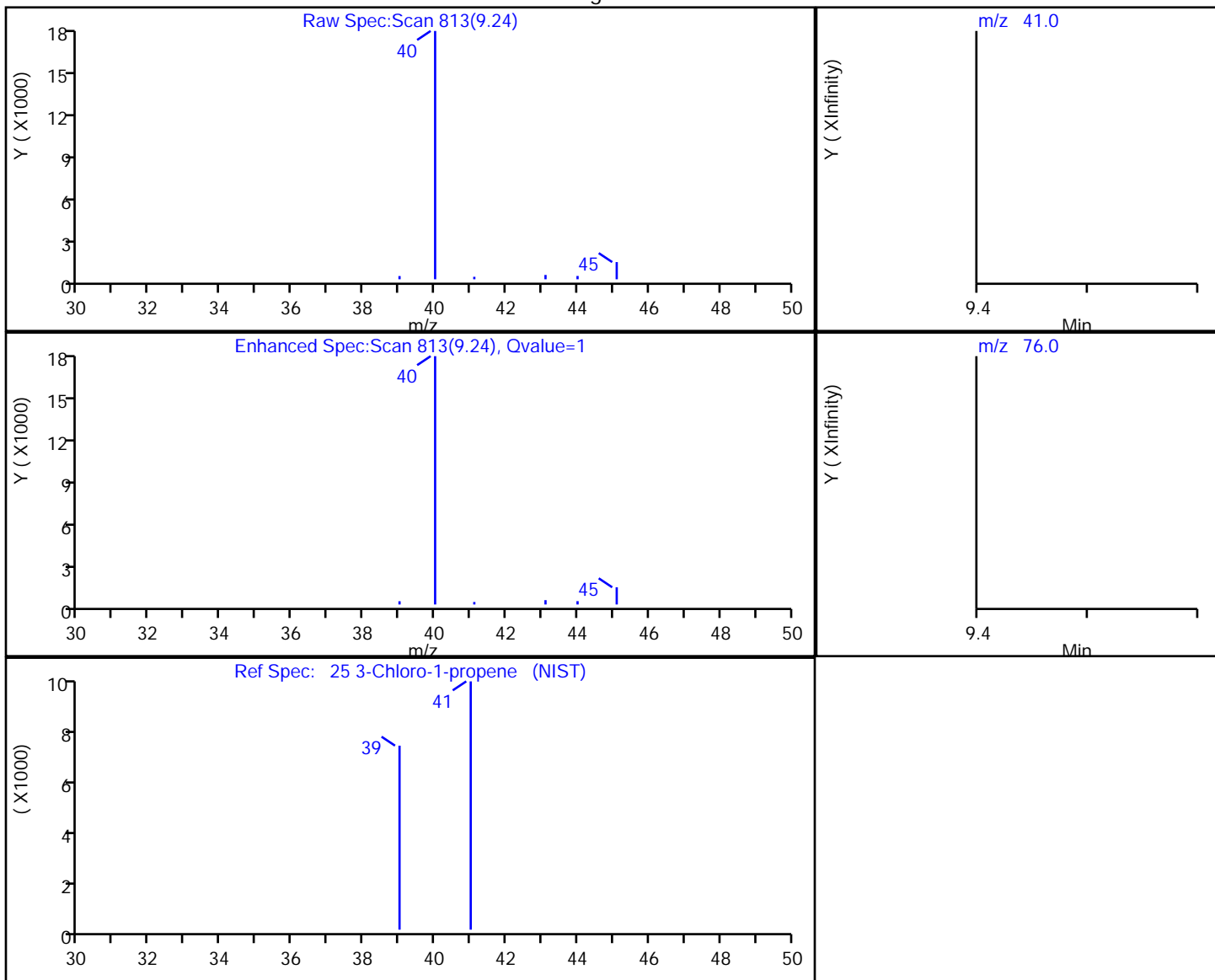


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
9.24	41.00	108	0.007141
9.49	76.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:07:53

Audit Action: Marked Compound Undetected

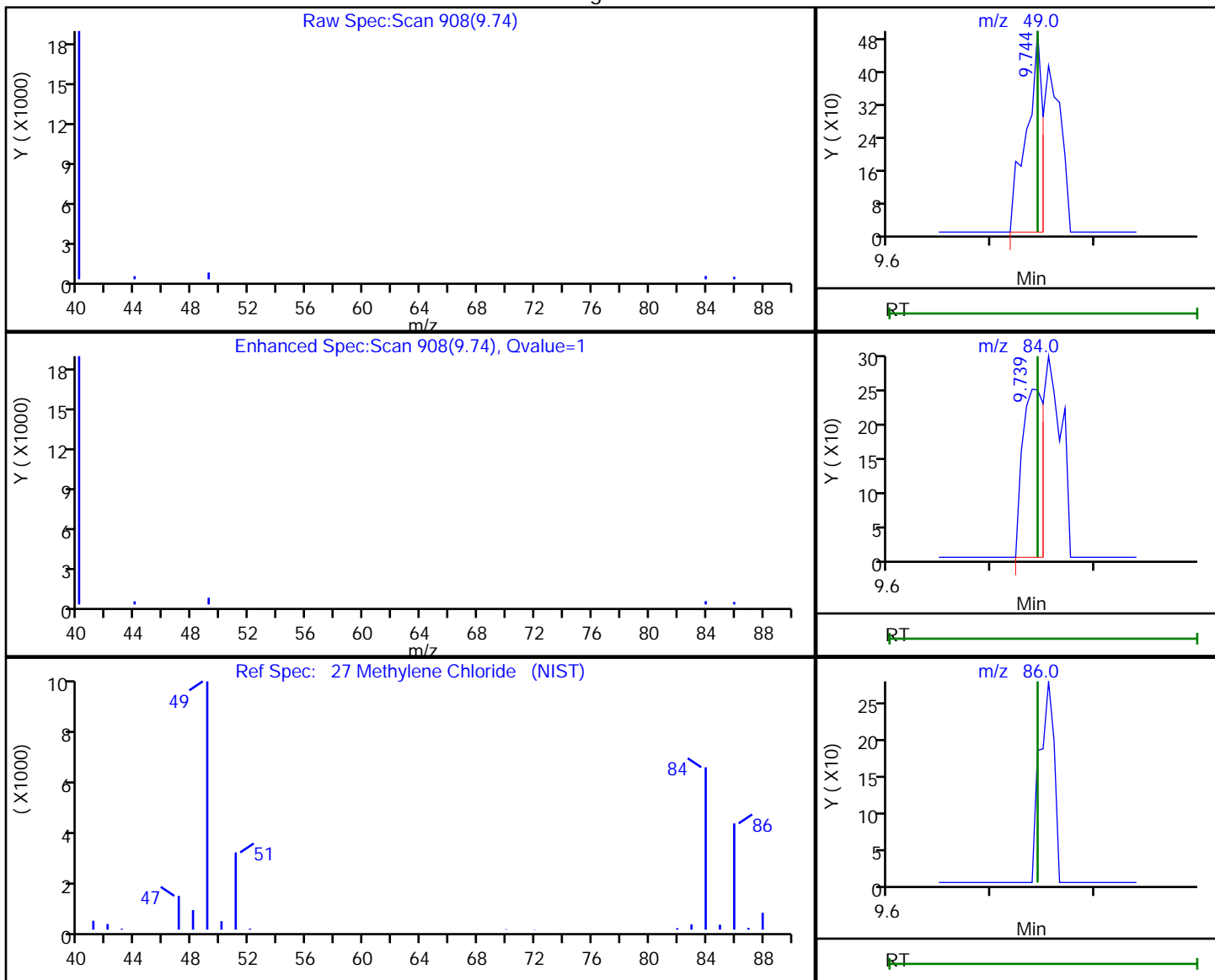
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	529	0.033234
9.74	84.00	347	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:09

Audit Action: Marked Compound Undetected

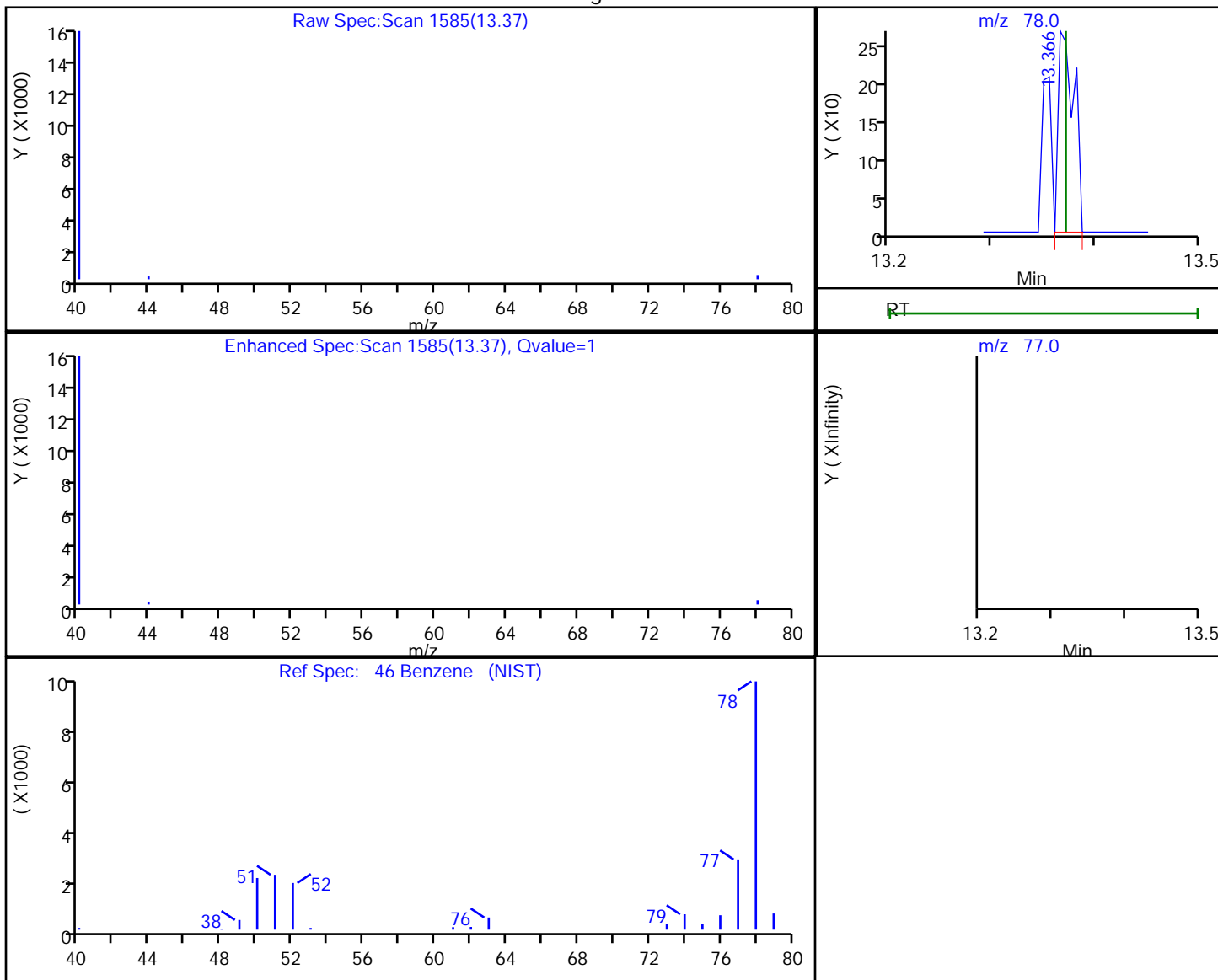
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 ( 0.32 mm) Detector MS SCAN

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
13.37	78.00	285	0.006898
13.37	77.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:40

Audit Action: Marked Compound Undetected

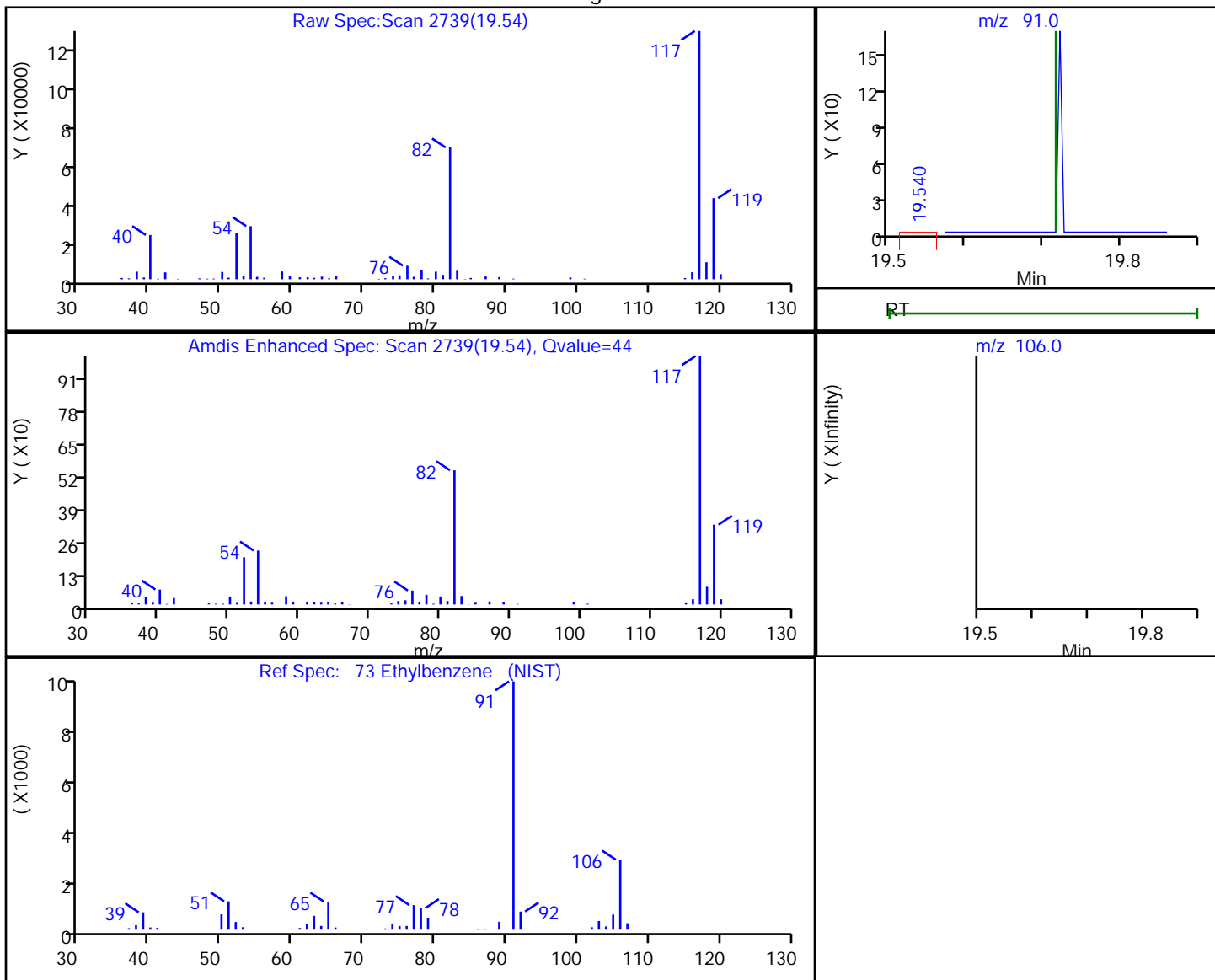
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	603	0.010890
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:10

Audit Action: Marked Compound Undetected

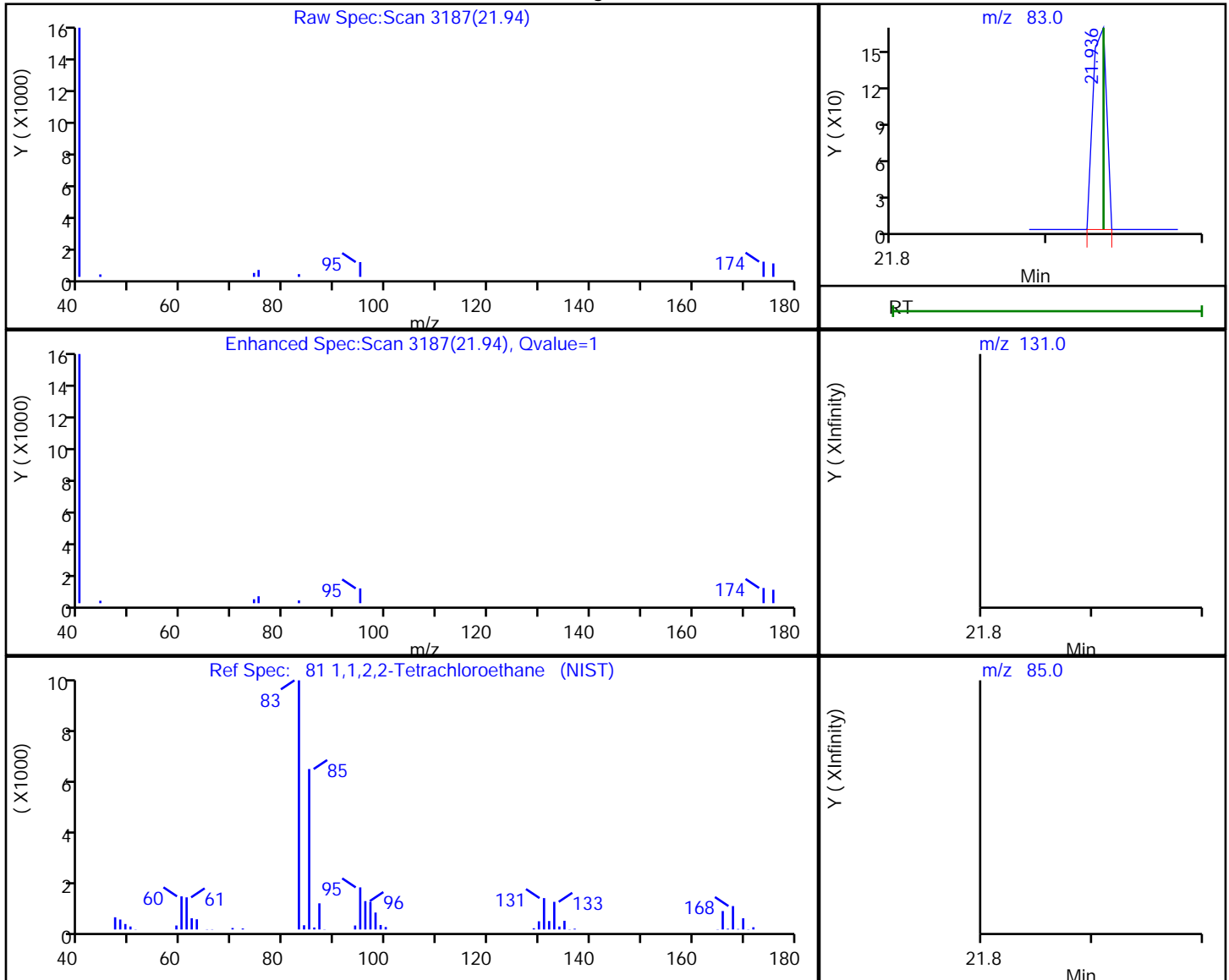
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

81 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
21.94	83.00	102	0.002836
21.94	131.00	0	
21.94	85.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:18

Audit Action: Marked Compound Undetected

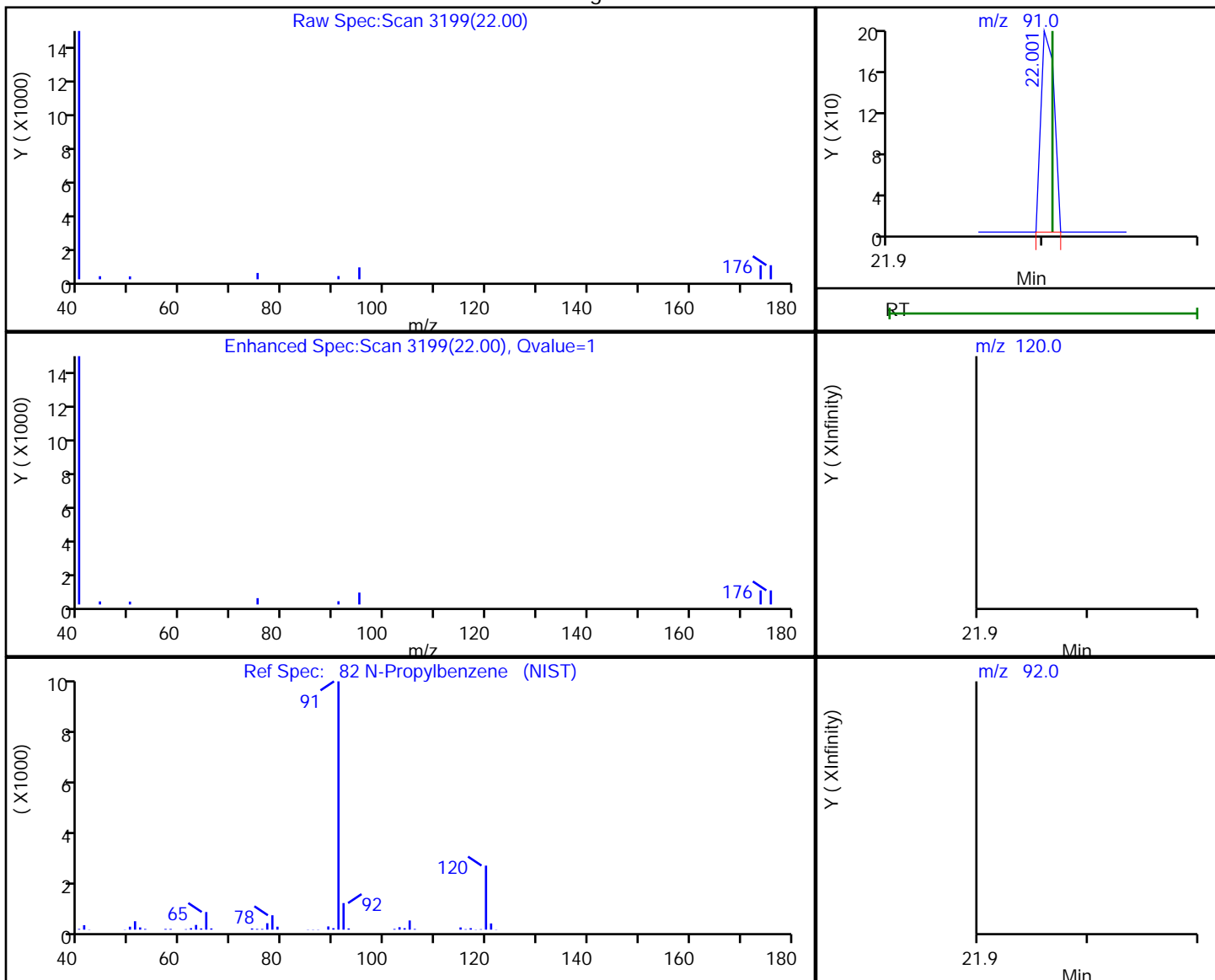
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.001542
22.01	120.00	0	
22.01	92.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:23

Audit Action: Marked Compound Undetected

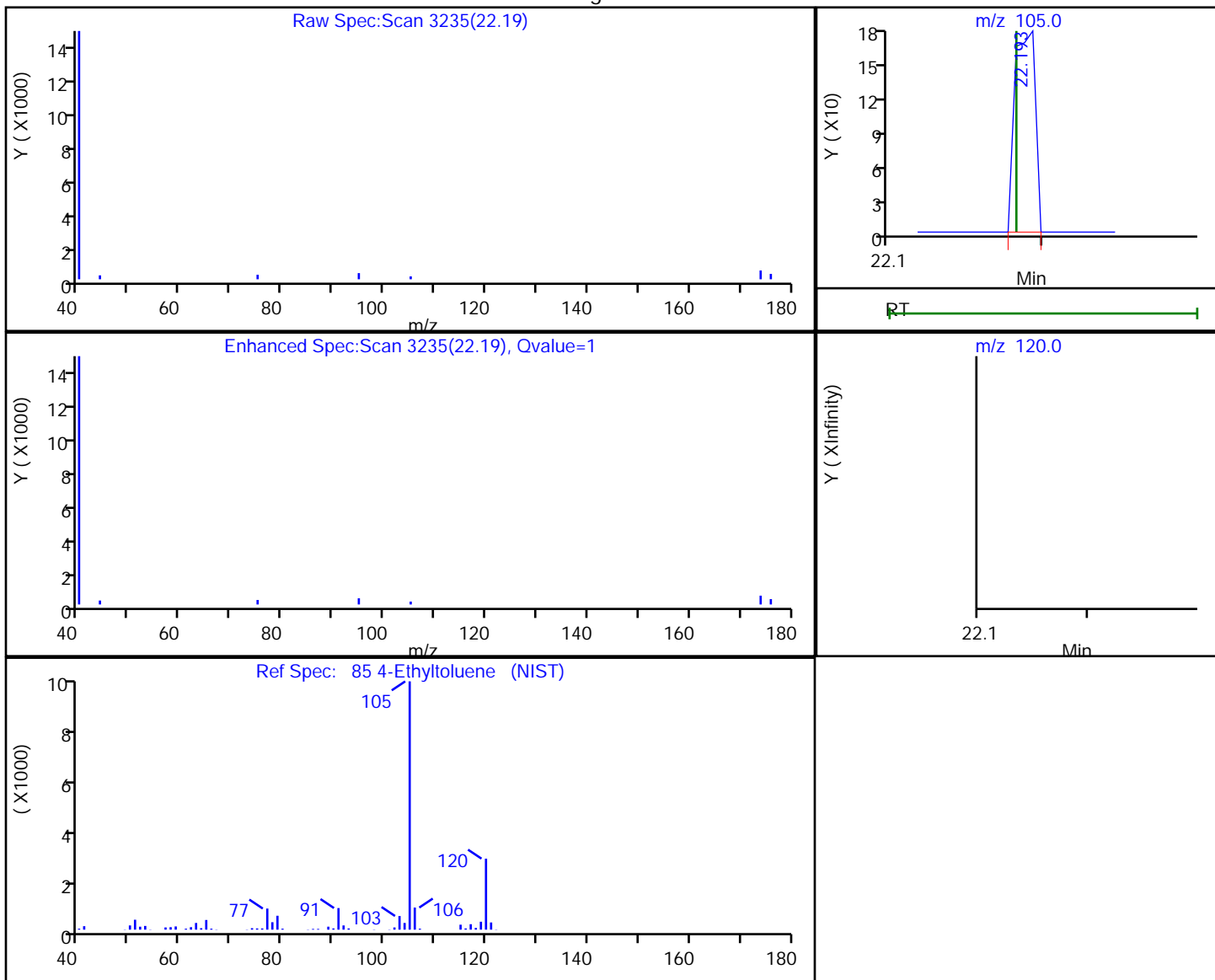
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002516
22.18	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:39

Audit Action: Marked Compound Undetected

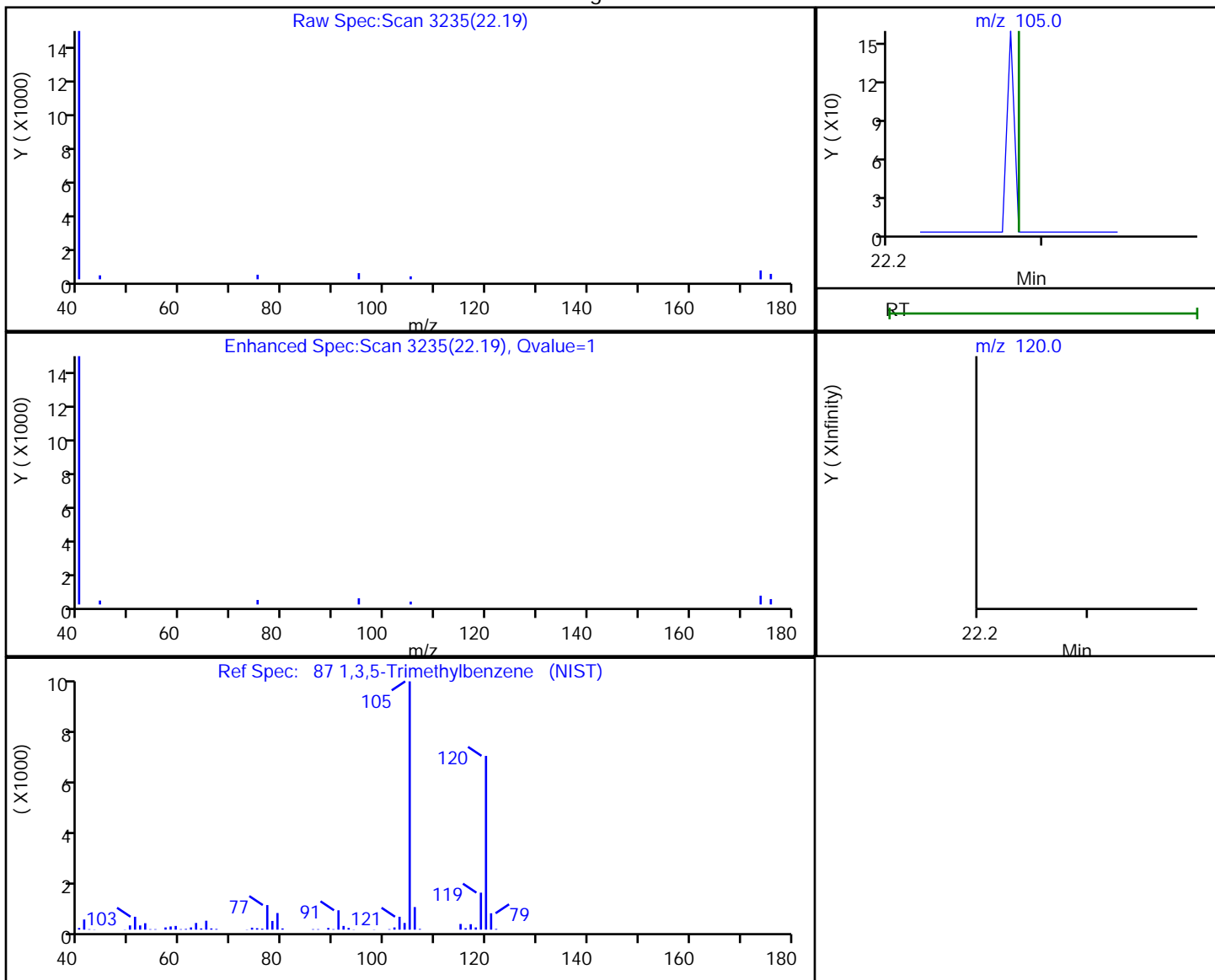
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002964
22.28	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

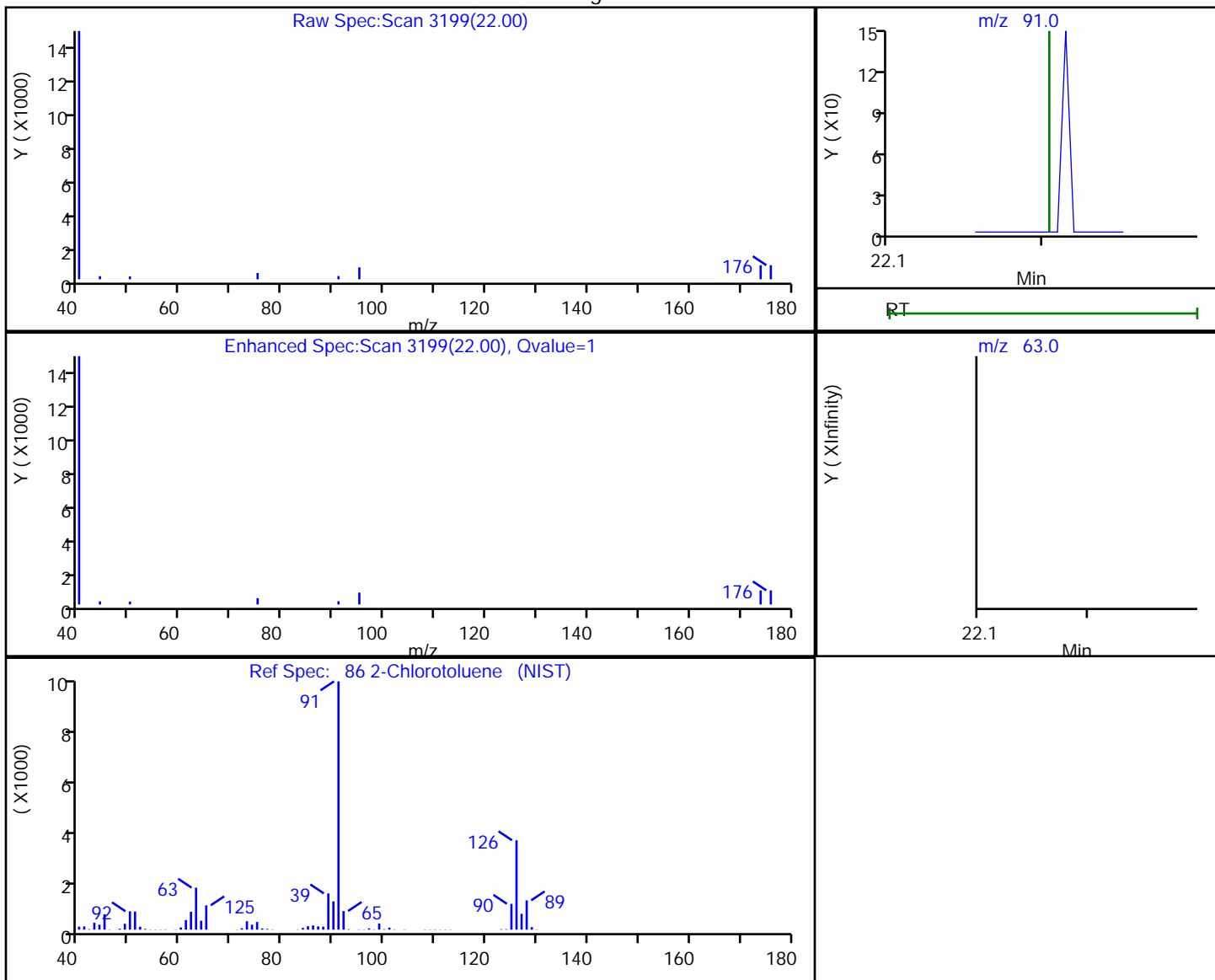


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.002064
22.20	63.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:51

Audit Action: Marked Compound Undetected

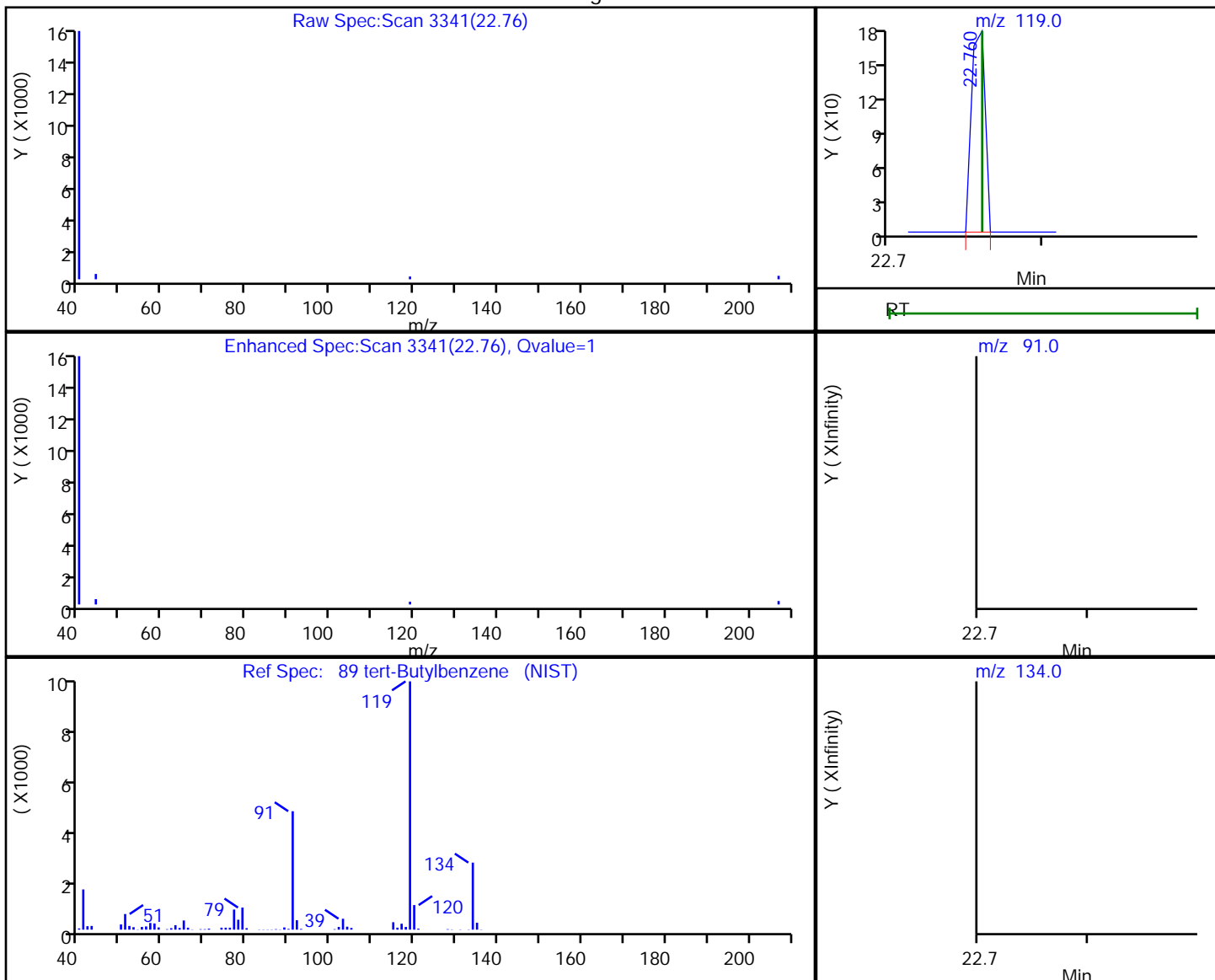
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.76	119.00	108	0.002124
22.76	91.00	0	
22.76	134.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:57

Audit Action: Marked Compound Undetected

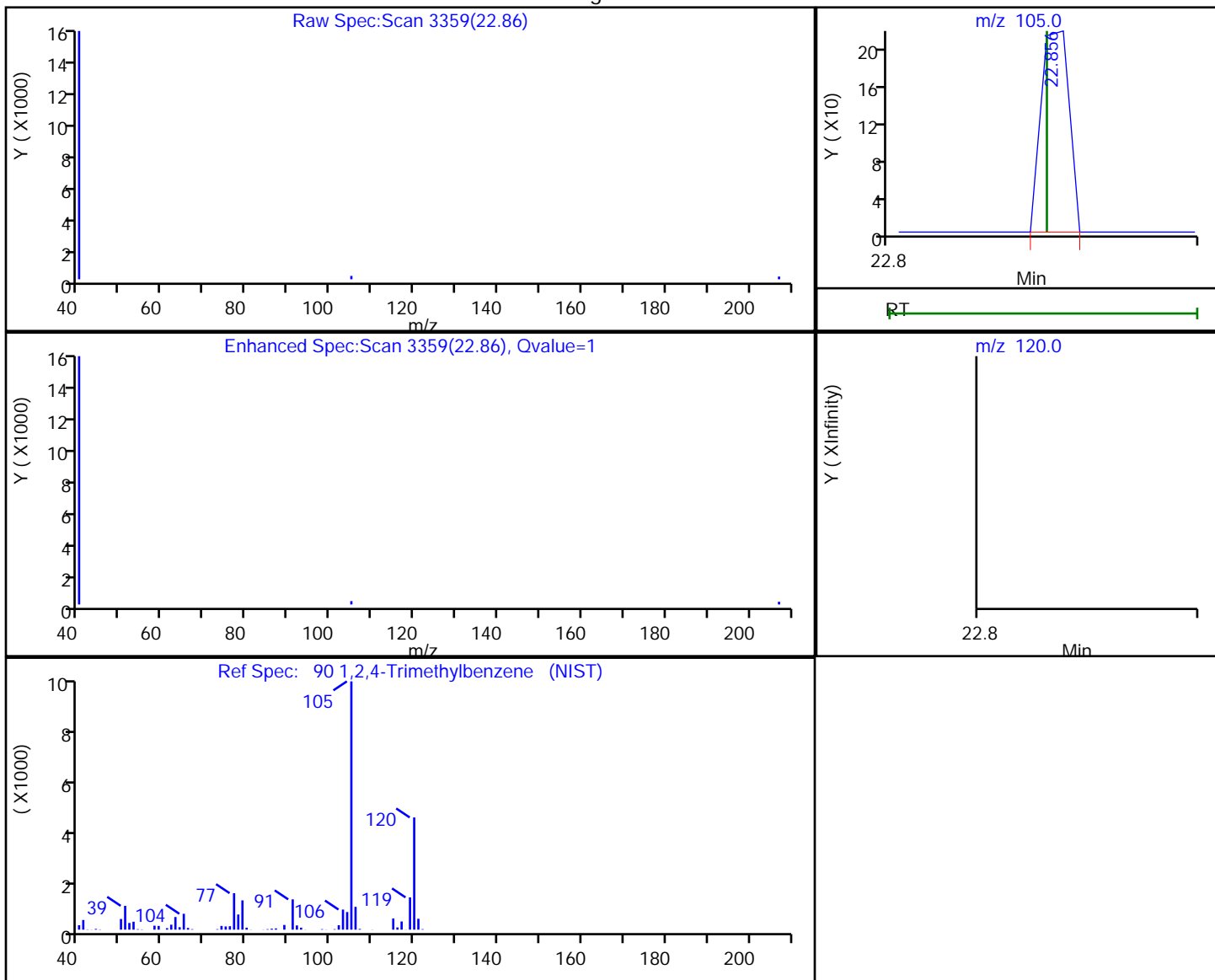
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
22.86	105.00	135	0.002651
22.85	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:58

Audit Action: Marked Compound Undetected

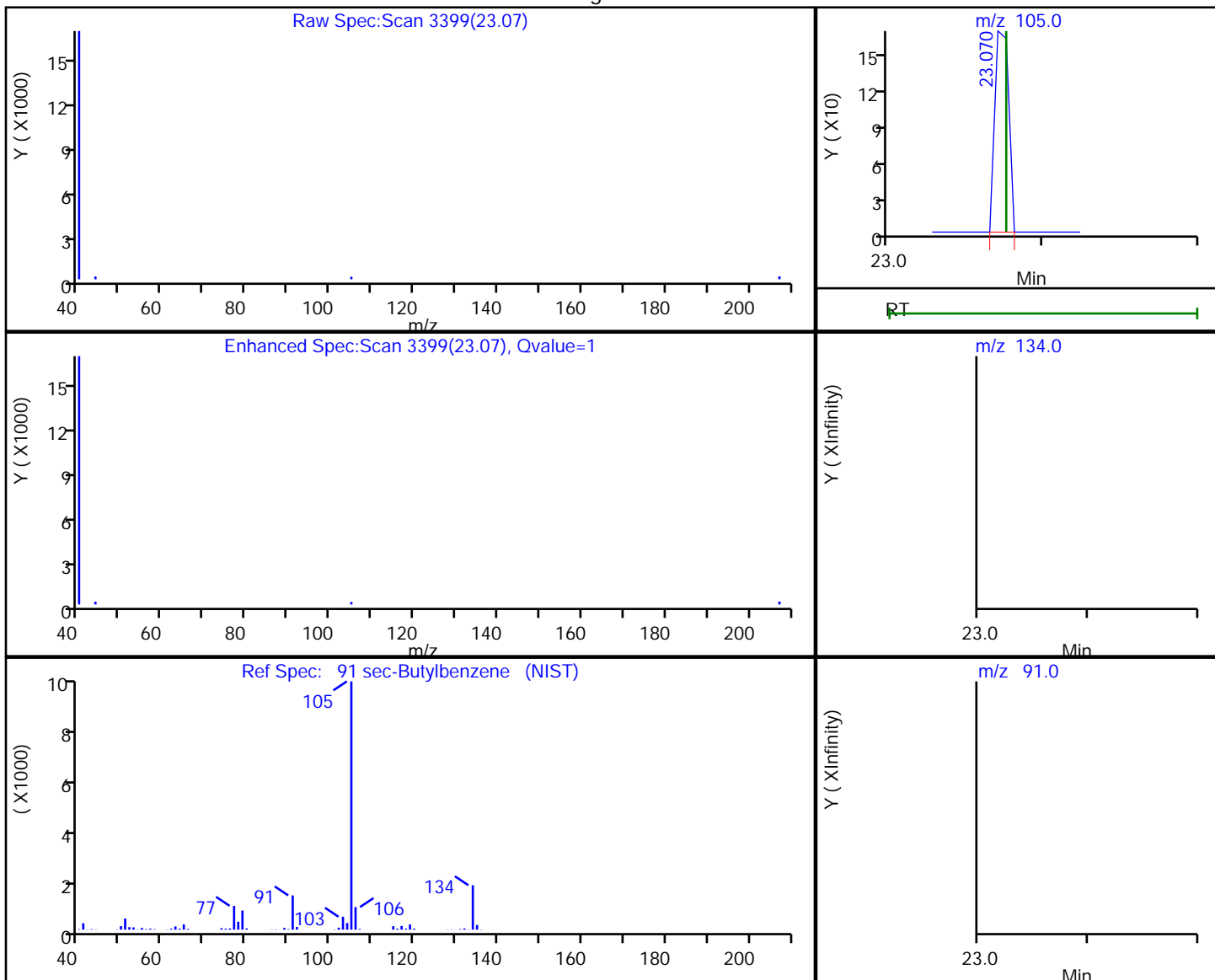
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

91 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
23.07	105.00	101	0.001288
23.08	134.00	0	
23.08	91.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:59

Audit Action: Marked Compound Undetected

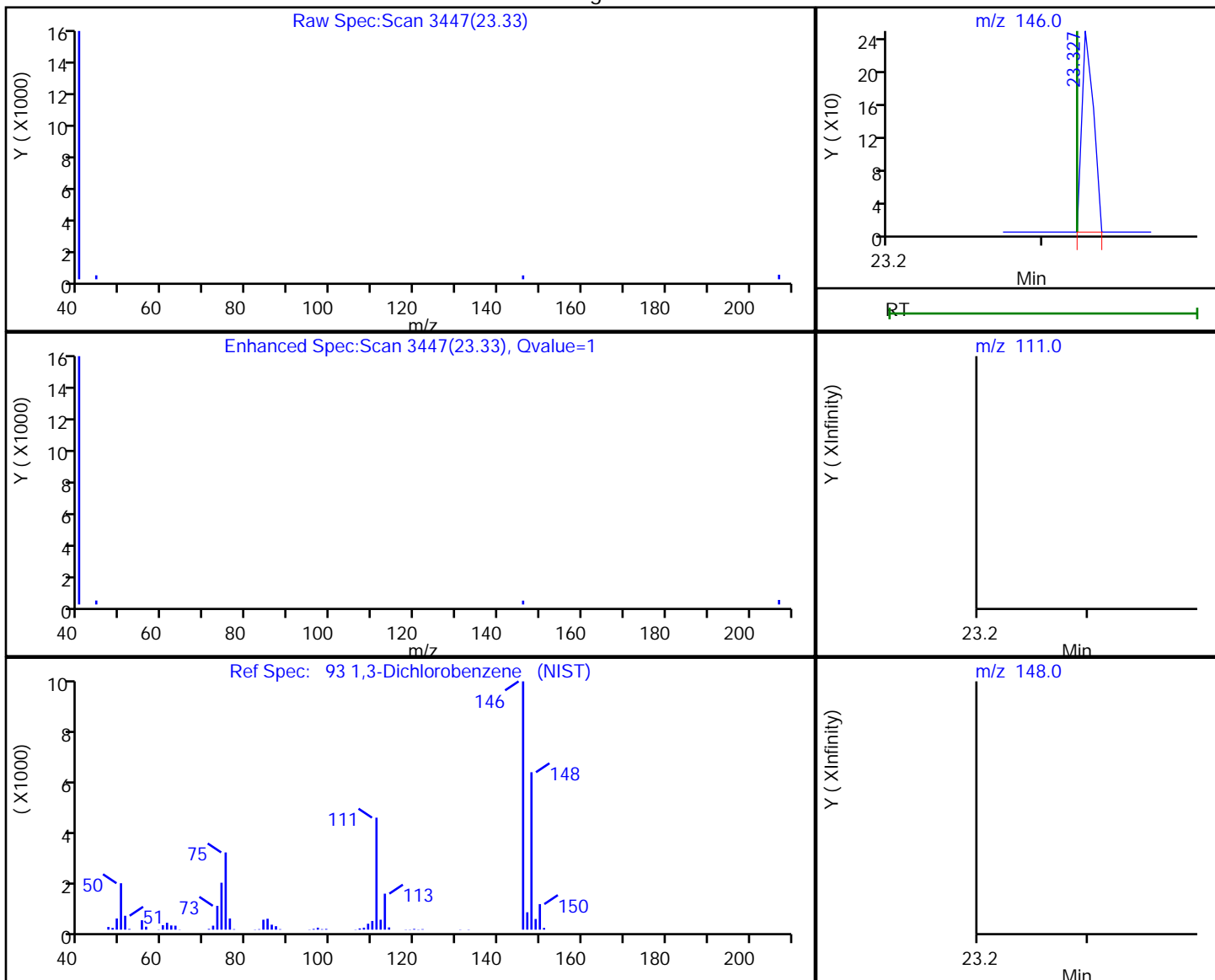
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector MS SCAN

93 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003733
23.32	111.00	0	
23.32	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:03

Audit Action: Marked Compound Undetected

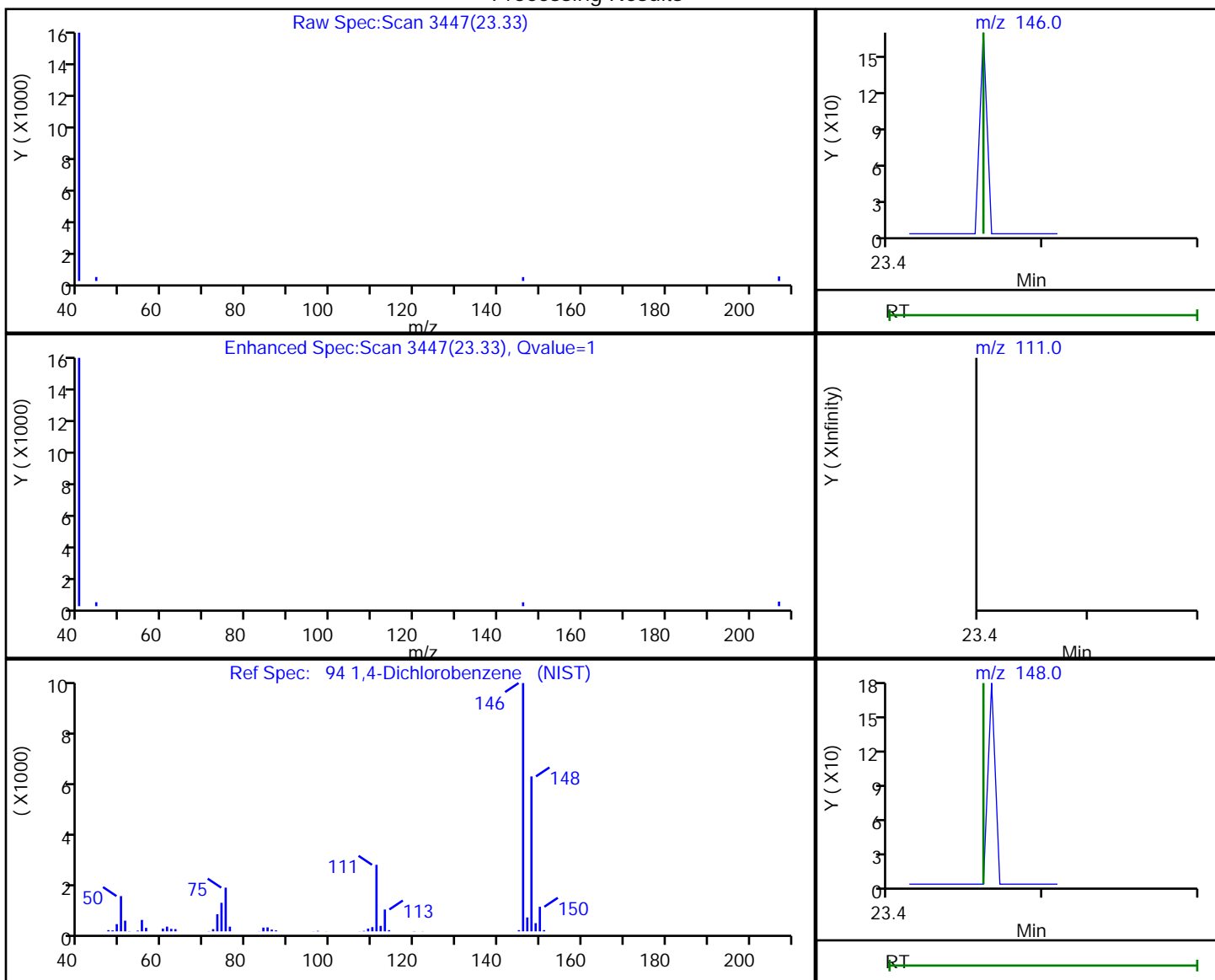
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003913
23.46	111.00	0	
23.46	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:05

Audit Action: Marked Compound Undetected

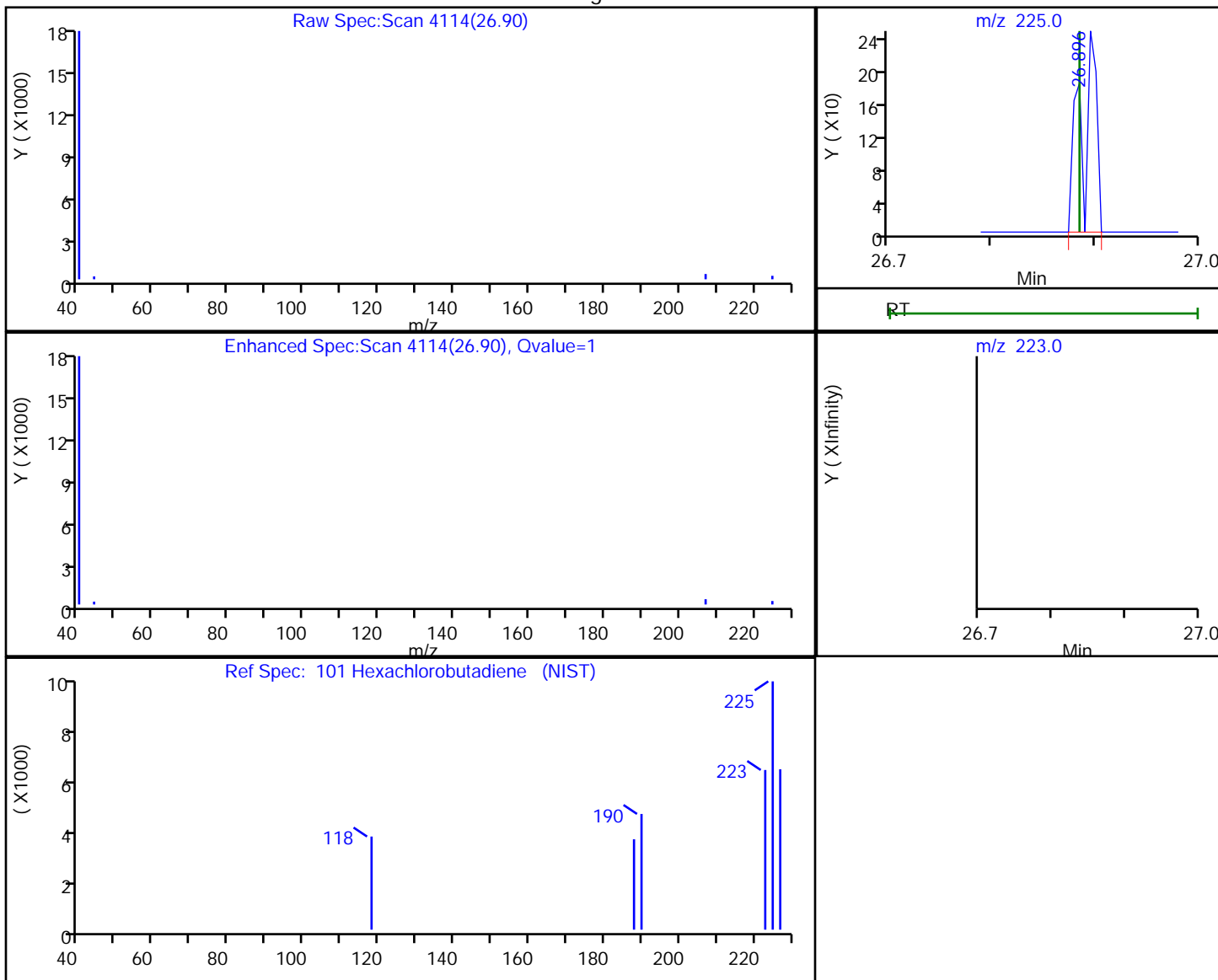
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
26.90	225.00	249	0.010138
26.88	223.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-04.d Lab Sample ID: MB 200-133921/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: CHW.i Date Analyzed: 09/11/2018 14:32  
 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 200-133921/3	32143-03.d	09/11/2018 13:37
5065	200-45175-12	32143-14.d	09/11/2018 23:30



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-133921/4  
 Matrix: Air Lab File ID: 32143-04.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 09/11/2018 14:32  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-04.d  
 Lims ID: mb  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Sep-2018 14:32:30 ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Sample Info: 200-0032143-004  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:10:47 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 13:10:47

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		5.042					ND	U
2 Dichlorodifluoromethane	85		5.154					ND	
3 Chlorodifluoromethane	51		5.235					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556					ND	
5 Chloromethane	50		5.753					ND	
6 Butane	43		6.021					ND	
7 Vinyl chloride	62		6.080					ND	
8 Butadiene	54		6.171					ND	
9 Bromomethane	94		6.963					ND	
11 Chloroethane	64		7.219					ND	
12 2-Methylbutane	43		7.289					ND	
13 Vinyl bromide	106		7.626					ND	
14 Trichlorofluoromethane	101		7.717					ND	
15 Pentane	43		7.851					ND	
16 Ethanol	45		8.225					ND	
17 Ethyl ether	59		8.327					ND	
T 18 Methyl Acetate TIC	43		8.560					ND	
19 Acrolein	56		8.712					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723					ND	
21 1,1-Dichloroethene	96		8.787					ND	
22 Acetone	43	9.001	8.979	0.022	97	8852		0.4433	
23 Carbon disulfide	76		9.183					ND	
24 Isopropyl alcohol	45	9.199	9.188	0.011	98	10341		0.4901	
25 3-Chloro-1-propene	41		9.488					ND	U
26 Acetonitrile	41		9.605					ND	
27 Methylene Chloride	49		9.744					ND	U
28 2-Methyl-2-propanol	59		9.867					ND	
29 Methyl tert-butyl ether	73		10.076					ND	
30 trans-1,2-Dichloroethene	61		10.140					ND	
S 31 1,2-Dichloroethene, Total	61		10.200					ND	
32 Acrylonitrile	53		10.274					ND	
33 Hexane	57		10.467					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Diff RT (min.)	Q	Response	Cal Amt ppb v/v	OnCol Amt ppb v/v	Flags
34 1,1-Dichloroethane	63		10.932					ND	
35 Vinyl acetate	43		10.959					ND	
36 cis-1,2-Dichloroethene	96		11.938					ND	
37 2-Butanone (MEK)	72		11.948					ND	
38 Ethyl acetate	88		11.959					ND	
39 Tetrahydrofuran	42		12.355					ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	91	91677	10.0	10.0	
41 Chloroform	83		12.457					ND	
42 Cyclohexane	84		12.719					ND	
43 1,1,1-Trichloroethane	97		12.735					ND	
44 Carbon tetrachloride	117		12.960					ND	
45 Isooctane	57		13.307					ND	
46 Benzene	78		13.371					ND	U
47 1,2-Dichloroethane	62		13.521					ND	
48 n-Heptane	43		13.628					ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	456636	10.0	10.0	
50 n-Butanol	56		14.329					ND	
51 Trichloroethene	95		14.495					ND	
A 52 GRO	1	14.717	(7.279-22.155)		0	1767627		0	
53 1,2-Dichloropropane	63		14.982					ND	
T 54 Methyl cyclohexane TIC	55		15.012					ND	
55 Methyl methacrylate	69		15.067					ND	
56 1,4-Dioxane	88		15.153					ND	
57 Dibromomethane	174		15.212					ND	
58 Dichlorobromomethane	83		15.447					ND	
59 cis-1,3-Dichloropropene	75		16.271					ND	
A 60 TVOC as Toluene	92	16.391	(5.032-27.751)		0	2022464		67.0	
61 4-Methyl-2-pentanone (MIBK)	43		16.501					ND	
62 n-Octane	43		16.817					ND	
63 Toluene	92		16.817					ND	
64 trans-1,3-Dichloropropene	75		17.341					ND	
65 1,1,2-Trichloroethane	83		17.694					ND	
66 Tetrachloroethene	166		17.812					ND	
67 2-Hexanone	43		18.085					ND	
68 Chlorodibromomethane	129		18.422					ND	
69 Ethylene Dibromide	107		18.689					ND	
T 70 1,2-Dibromo-3-Chloropropan	75		19.141					ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	378094	10.0	10.0	
72 Chlorobenzene	112		19.593					ND	
73 Ethylbenzene	91		19.716					ND	U
74 n-Nonane	57		19.796					ND	
75 m-Xylene & p-Xylene	106		19.957					ND	
S 76 Xylenes, Total	106		20.100					ND	
77 o-Xylene	106		20.727					ND	
78 Styrene	104		20.770					ND	
79 Bromoform	173		21.166					ND	
80 Isopropylbenzene	105		21.332					ND	
81 1,1,2,2-Tetrachloroethane	83		21.936					ND	U
82 N-Propylbenzene	91		22.006					ND	U
83 1,2,3-Trichloropropane	75		22.038					ND	
84 n-Decane	57		22.145					ND	
85 4-Ethyltoluene	105		22.182					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
86 2-Chlorotoluene	91		22.204					ND	U
87 1,3,5-Trimethylbenzene	105		22.284					ND	U
88 Alpha Methyl Styrene	118		22.637					ND	
89 tert-Butylbenzene	119		22.760					ND	U
90 1,2,4-Trimethylbenzene	105		22.851					ND	U
91 sec-Butylbenzene	105		23.076					ND	U
92 4-Isopropyltoluene	119		23.274					ND	
93 1,3-Dichlorobenzene	146		23.322					ND	U
94 1,4-Dichlorobenzene	146		23.461					ND	U
95 Benzyl chloride	91		23.664					ND	
97 Undecane	57		23.873					ND	
96 n-Butylbenzene	91		23.873					ND	
98 1,2-Dichlorobenzene	146		24.023					ND	
99 Dodecane	57		25.558					ND	
100 1,2,4-Trichlorobenzene	180		26.698					ND	
101 Hexachlorobutadiene	225		26.885					ND	U
102 Naphthalene	128		27.227					ND	
103 1,2,3-Trichlorobenzene	180		27.741					ND	
T 104 1,1,1,2-Tetrachloroethane	1		0.000					ND	
T 105 Methyl acetylene TIC	1		0.000					ND	
106 Total Alkanes	1		0.000					ND	
T 107 1,3-Dichloropropane TIC	1		0.000					ND	
T 108 Freon 115 TIC	1		0.000					ND	
T 109 Difluoroethane TIC	1		0.000					ND	
T 110 Chlorotrifluoroethene TIC	1		0.000					ND	
T 111 1,1,1-Trifluoro-2,2-dichlo	1		0.000					ND	

### QC Flag Legend

Review Flags

U - Marked Undetected

### Reagents:

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d

Injection Date: 11-Sep-2018 14:32:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: mb

Worklist Smp#: 4

Client ID:

Purge Vol: 200.000 mL

Dil. Factor: 1.0000

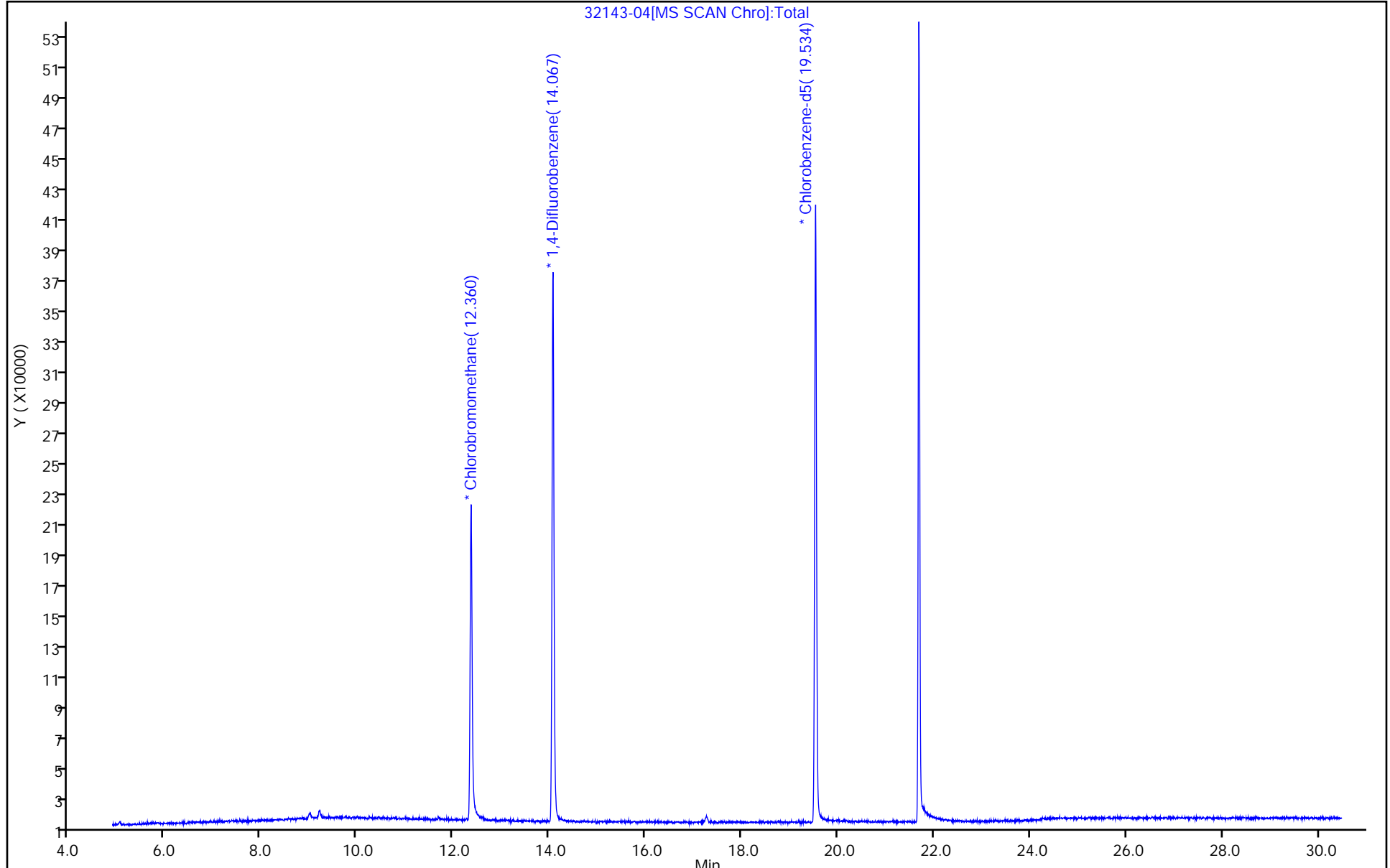
ALS Bottle#: 3

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

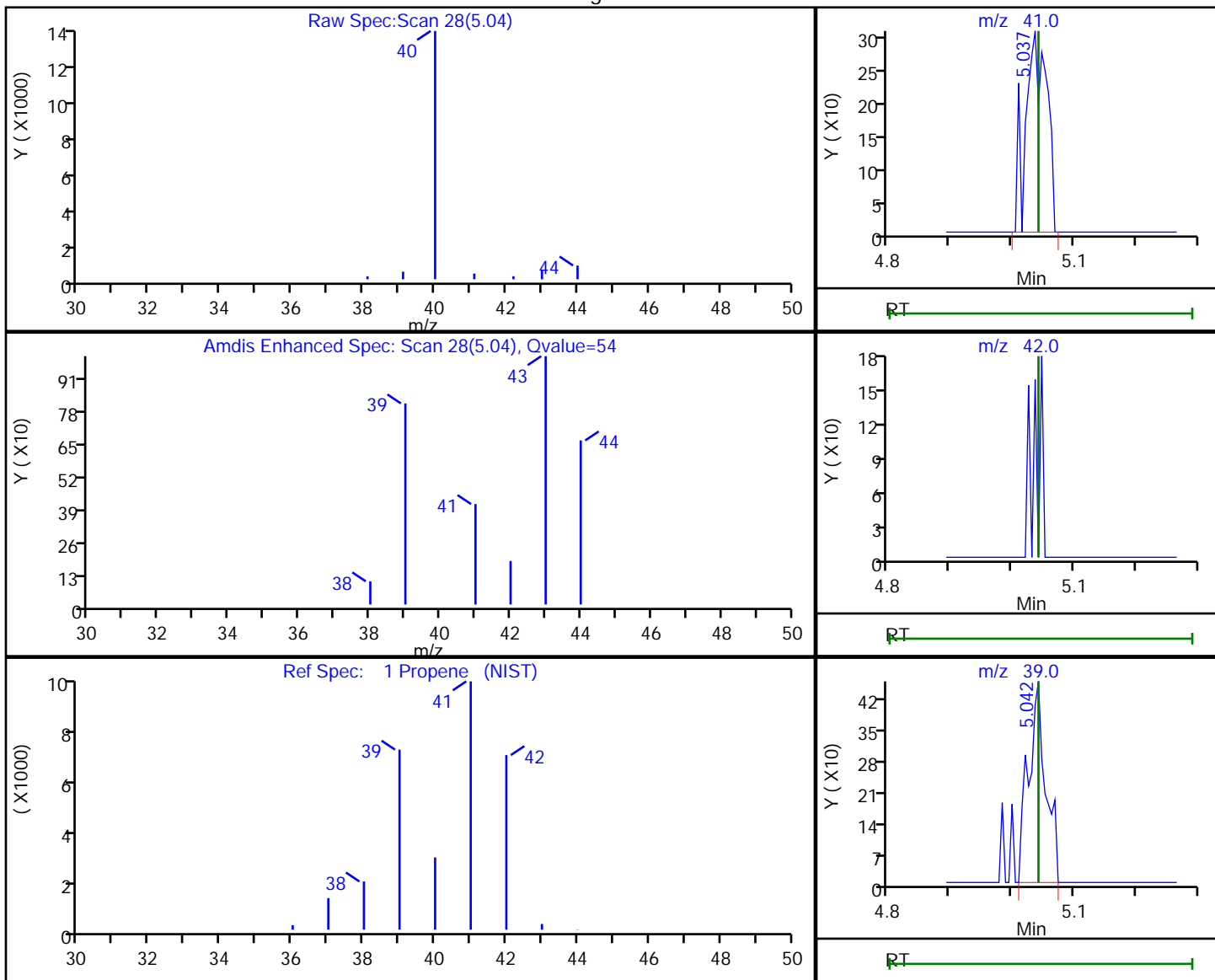


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) 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
5.04	41.00	716	0.064441
5.04	42.00	0	
5.04	39.00	890	

Reviewer: puangmaleek, 12-Sep-2018 13:07:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

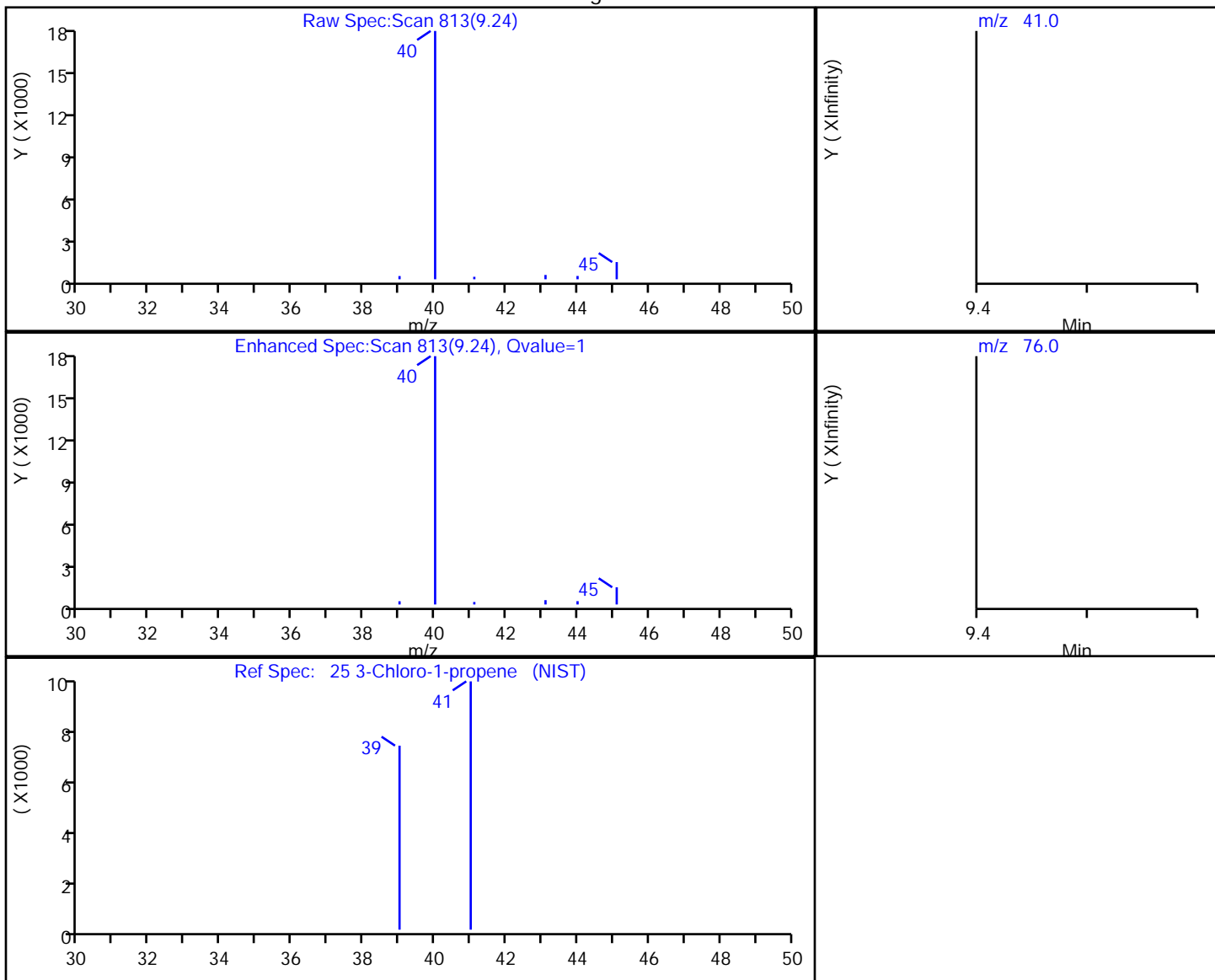


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) 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
9.24	41.00	108	0.007141
9.49	76.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:07:53

Audit Action: Marked Compound Undetected

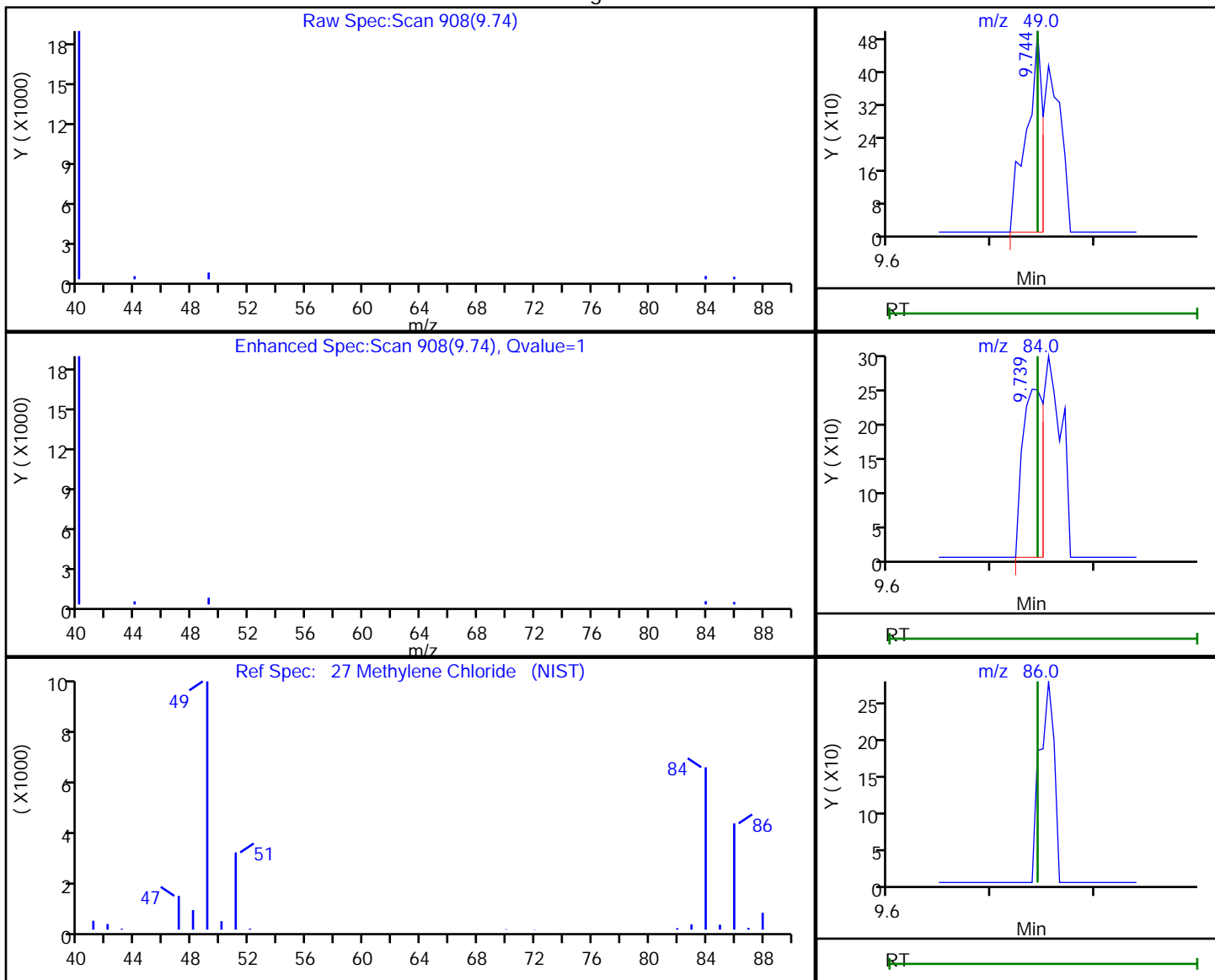
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	529	0.033234
9.74	84.00	347	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:09

Audit Action: Marked Compound Undetected

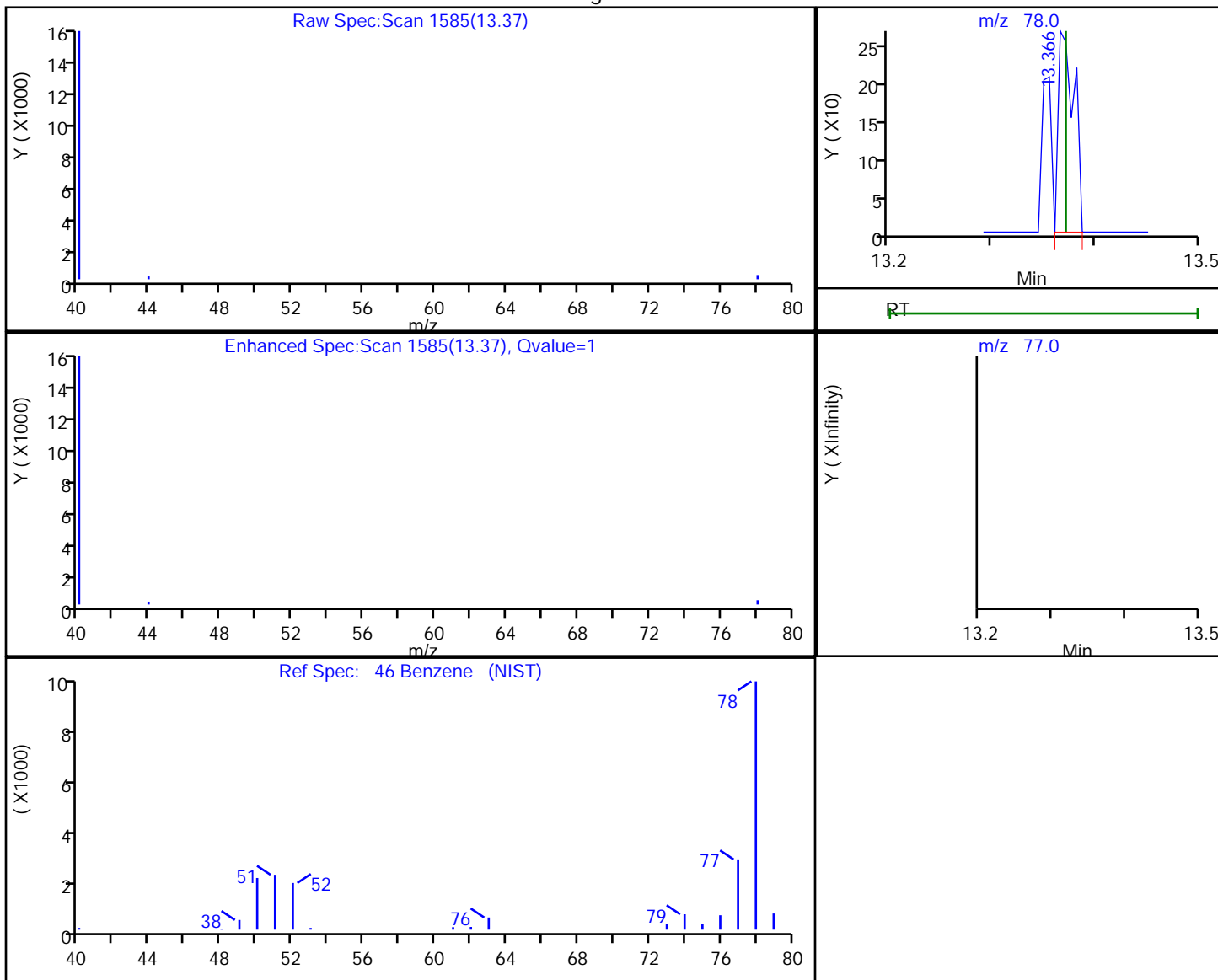
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

46 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
13.37	78.00	285	0.006898
13.37	77.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:08:40

Audit Action: Marked Compound Undetected

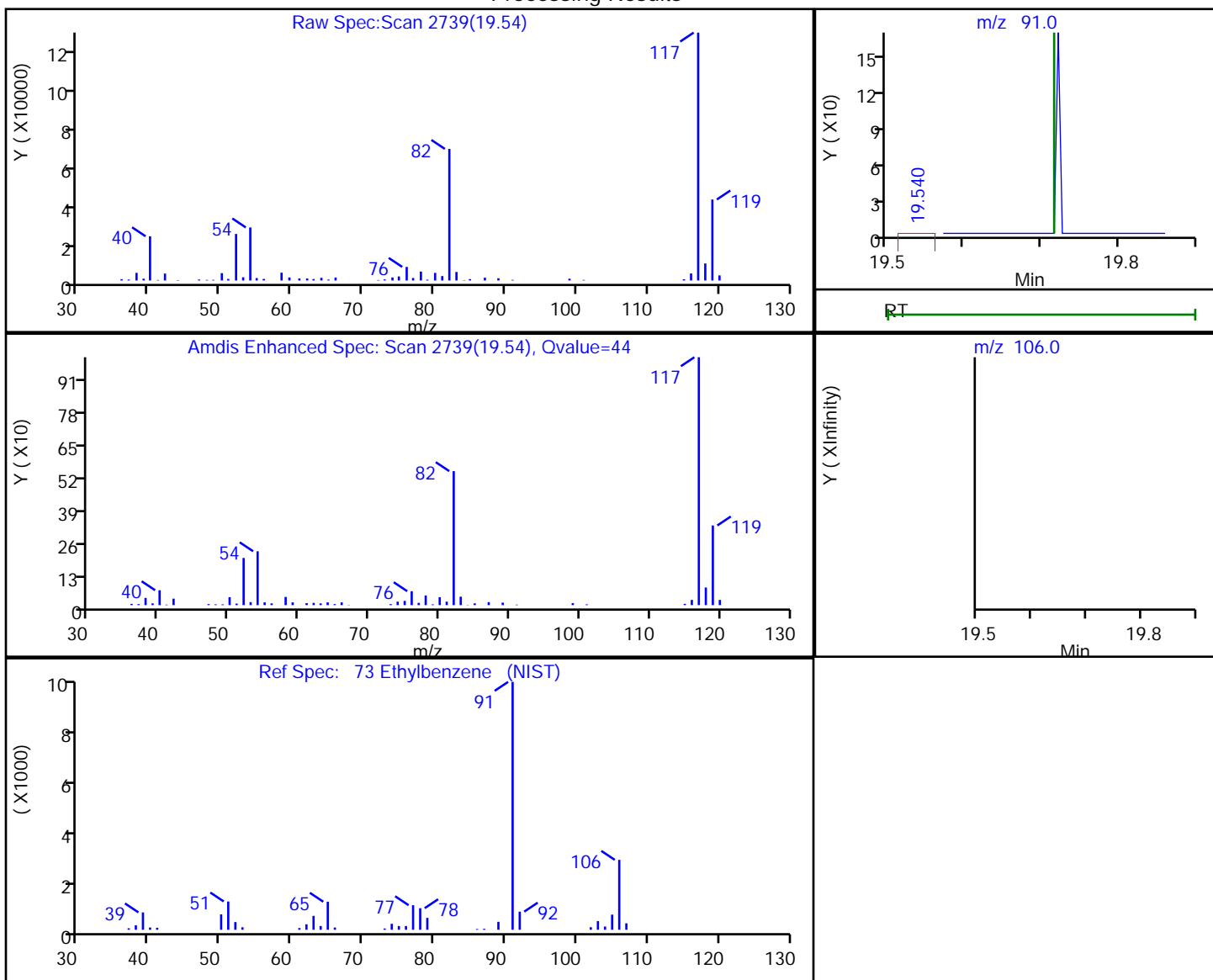
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	603	0.010890
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:10

Audit Action: Marked Compound Undetected

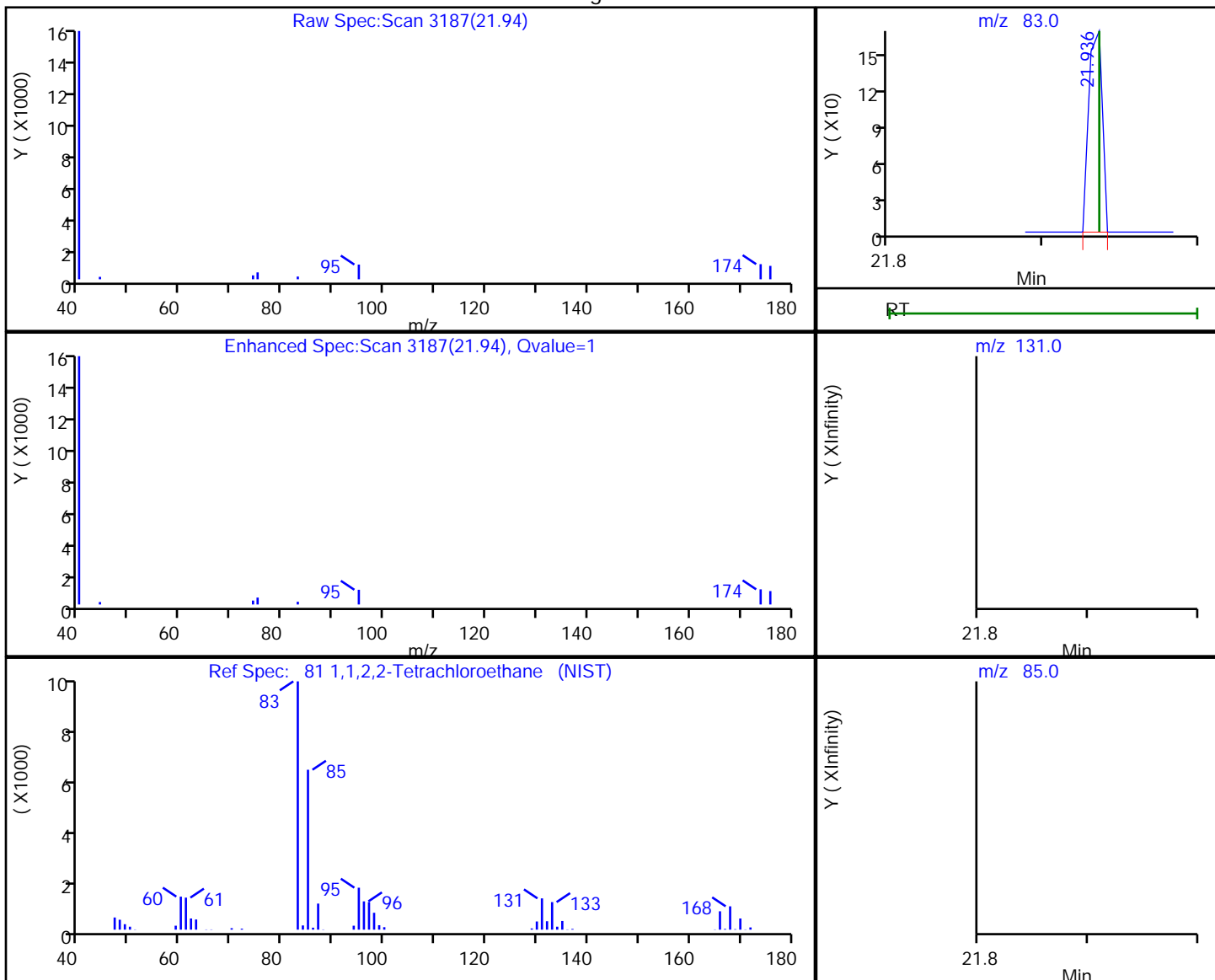
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

81 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
21.94	83.00	102	0.002836
21.94	131.00	0	
21.94	85.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:18

Audit Action: Marked Compound Undetected

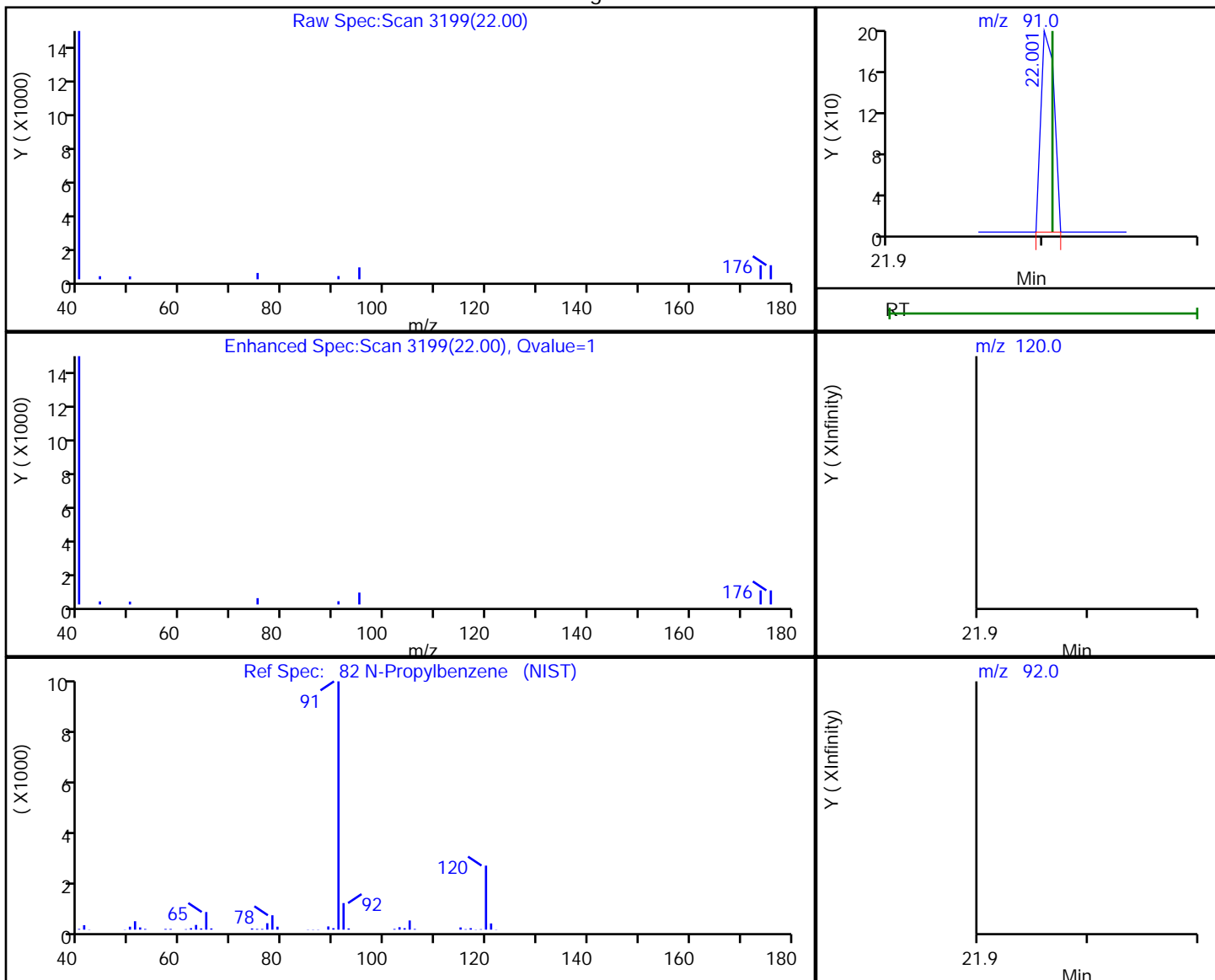
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

82 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.001542
22.01	120.00	0	
22.01	92.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:23

Audit Action: Marked Compound Undetected

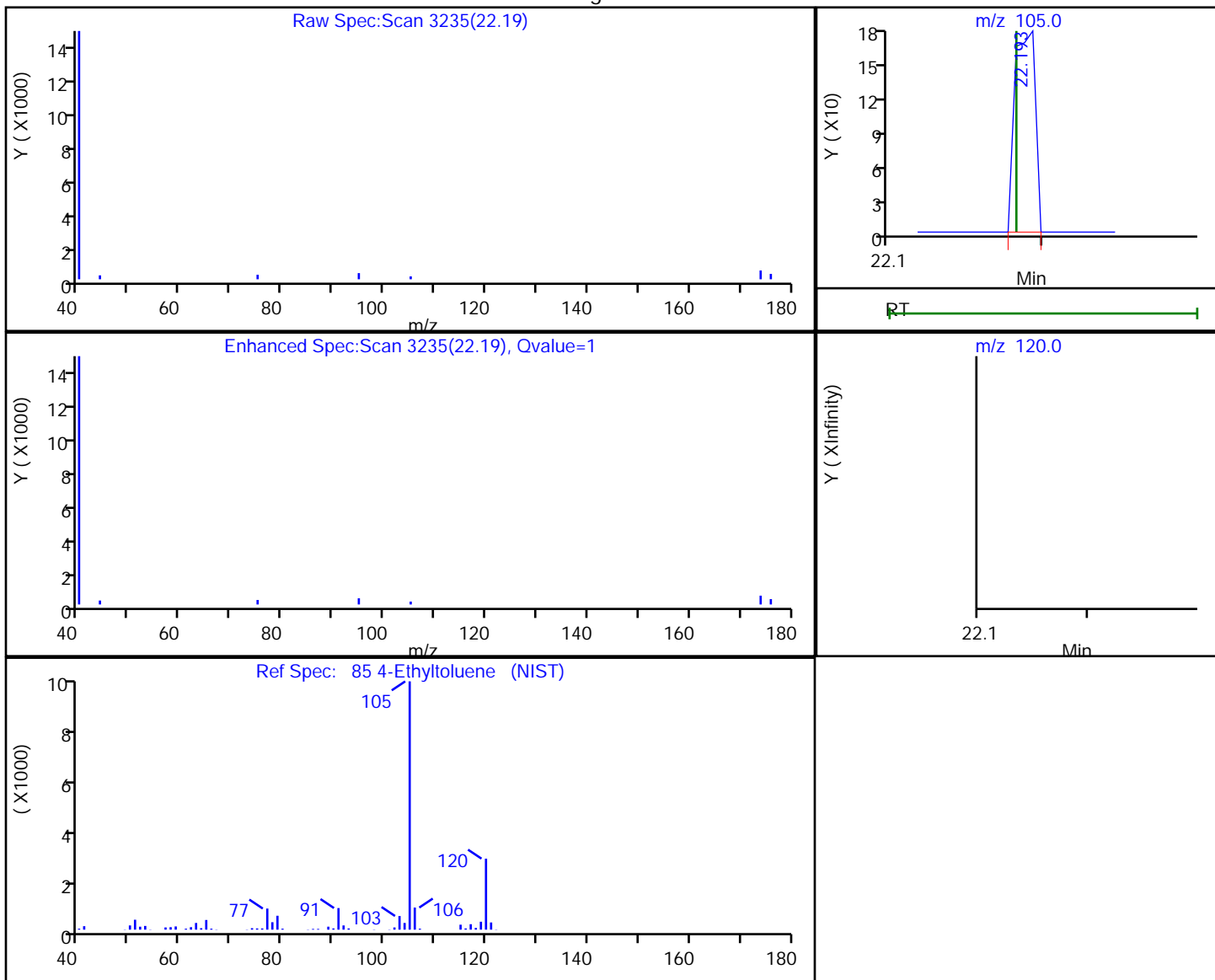
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

85 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002516
22.18	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:39

Audit Action: Marked Compound Undetected

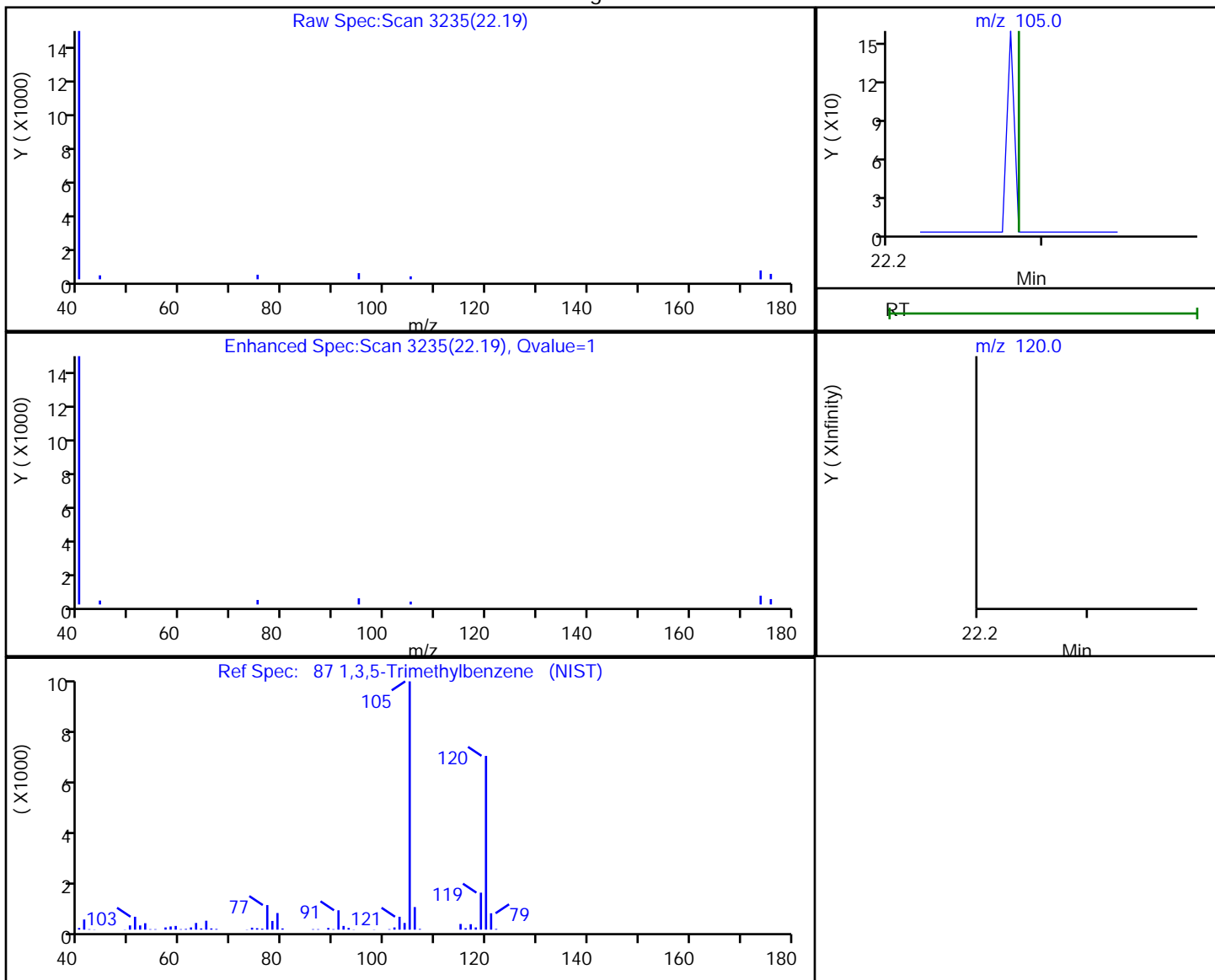
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
22.19	105.00	157	0.002964
22.28	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:52

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

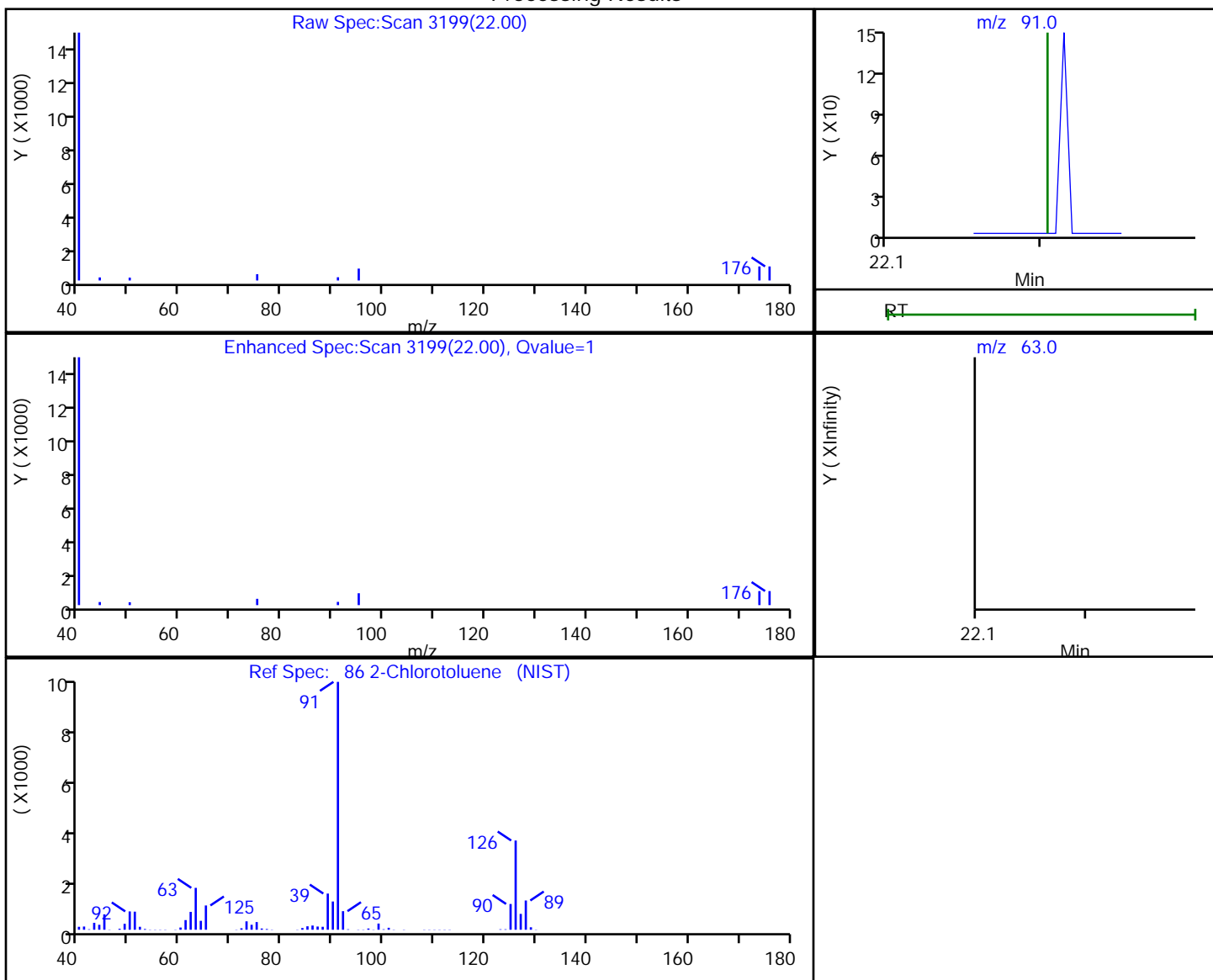


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

86 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
22.00	91.00	116	0.002064
22.20	63.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:51

Audit Action: Marked Compound Undetected

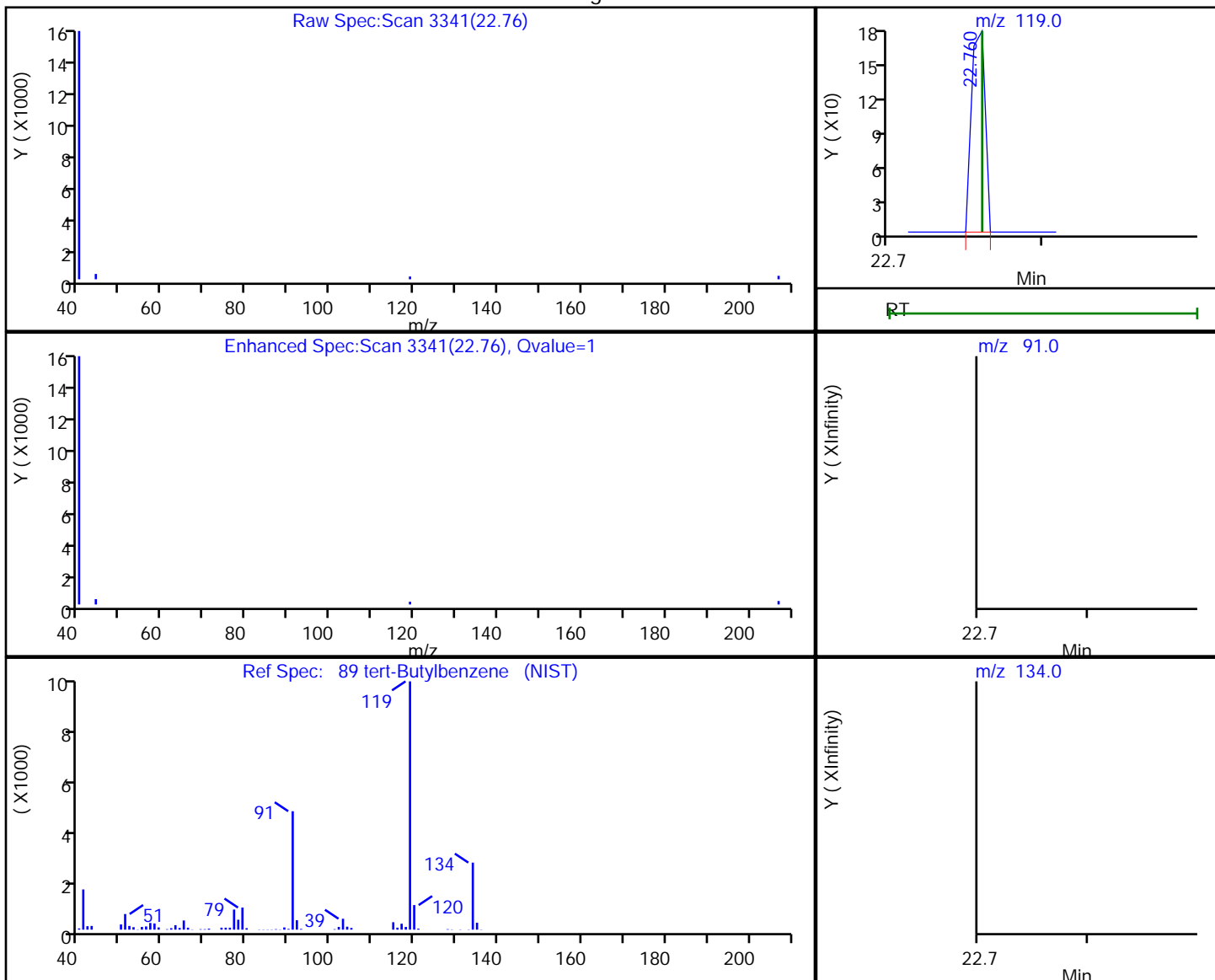
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

89 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
22.76	119.00	108	0.002124
22.76	91.00	0	
22.76	134.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:57

Audit Action: Marked Compound Undetected

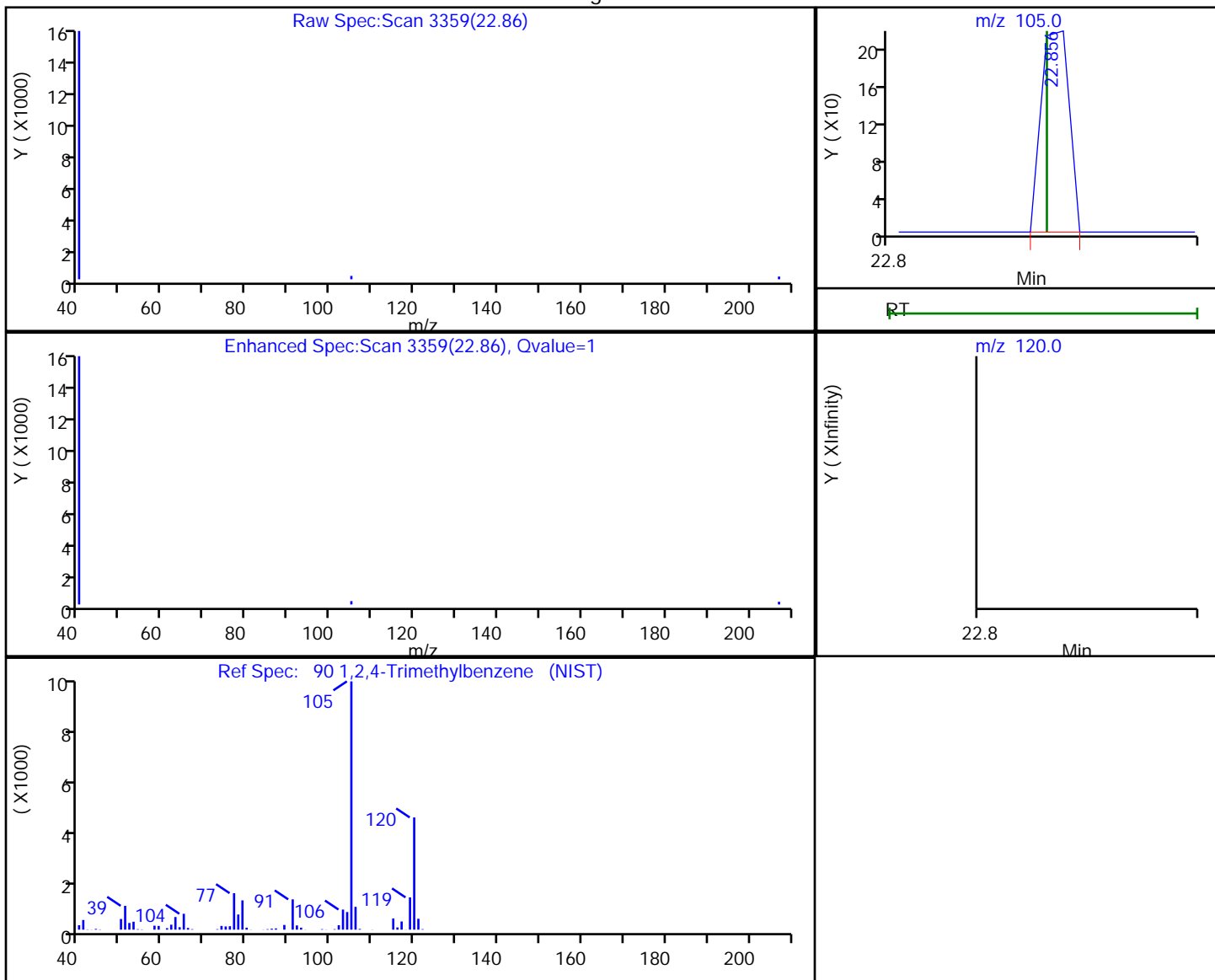
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

90 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
22.86	105.00	135	0.002651
22.85	120.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:58

Audit Action: Marked Compound Undetected

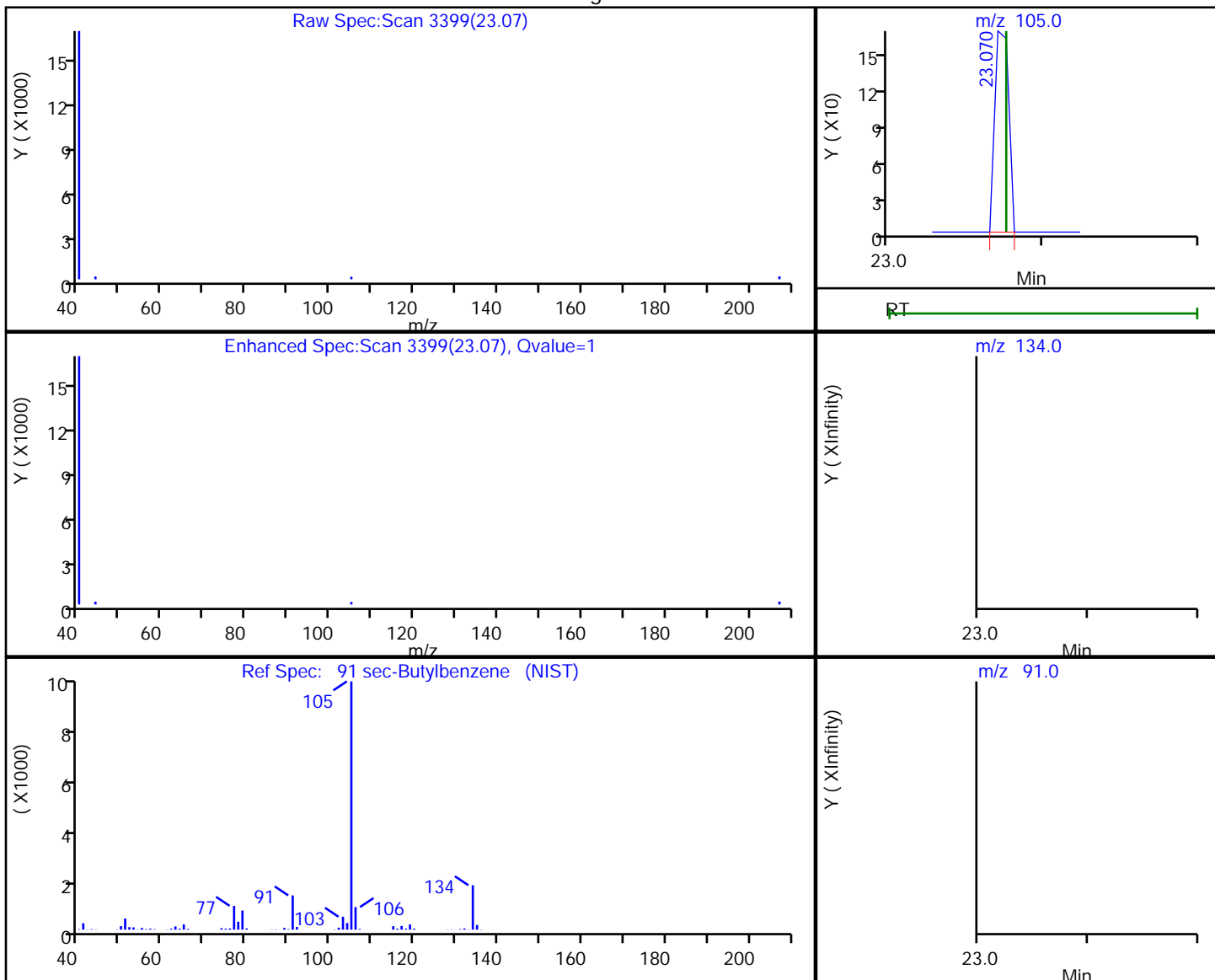
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

91 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
23.07	105.00	101	0.001288
23.08	134.00	0	
23.08	91.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:09:59

Audit Action: Marked Compound Undetected

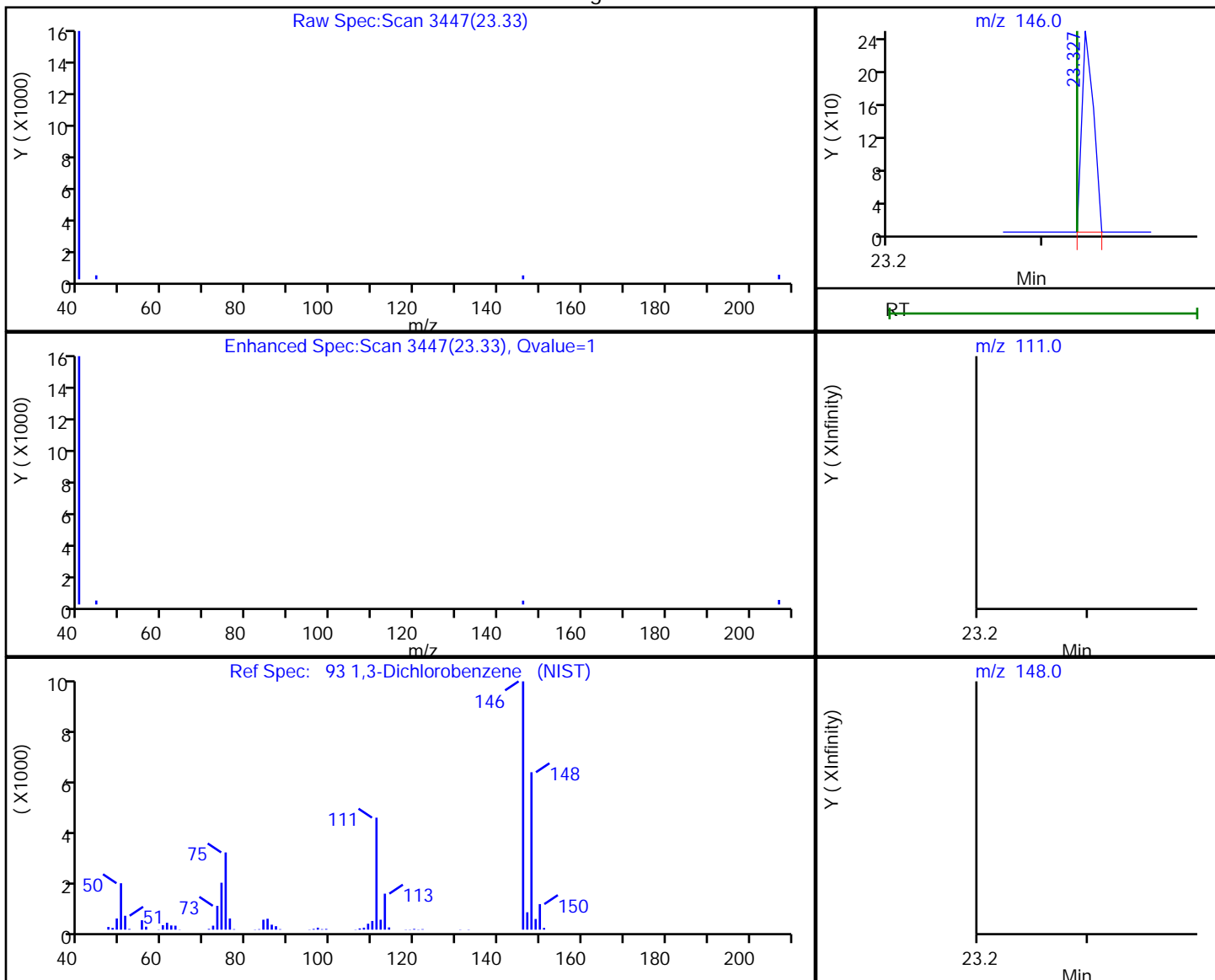
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

93 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003733
23.32	111.00	0	
23.32	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:03

Audit Action: Marked Compound Undetected

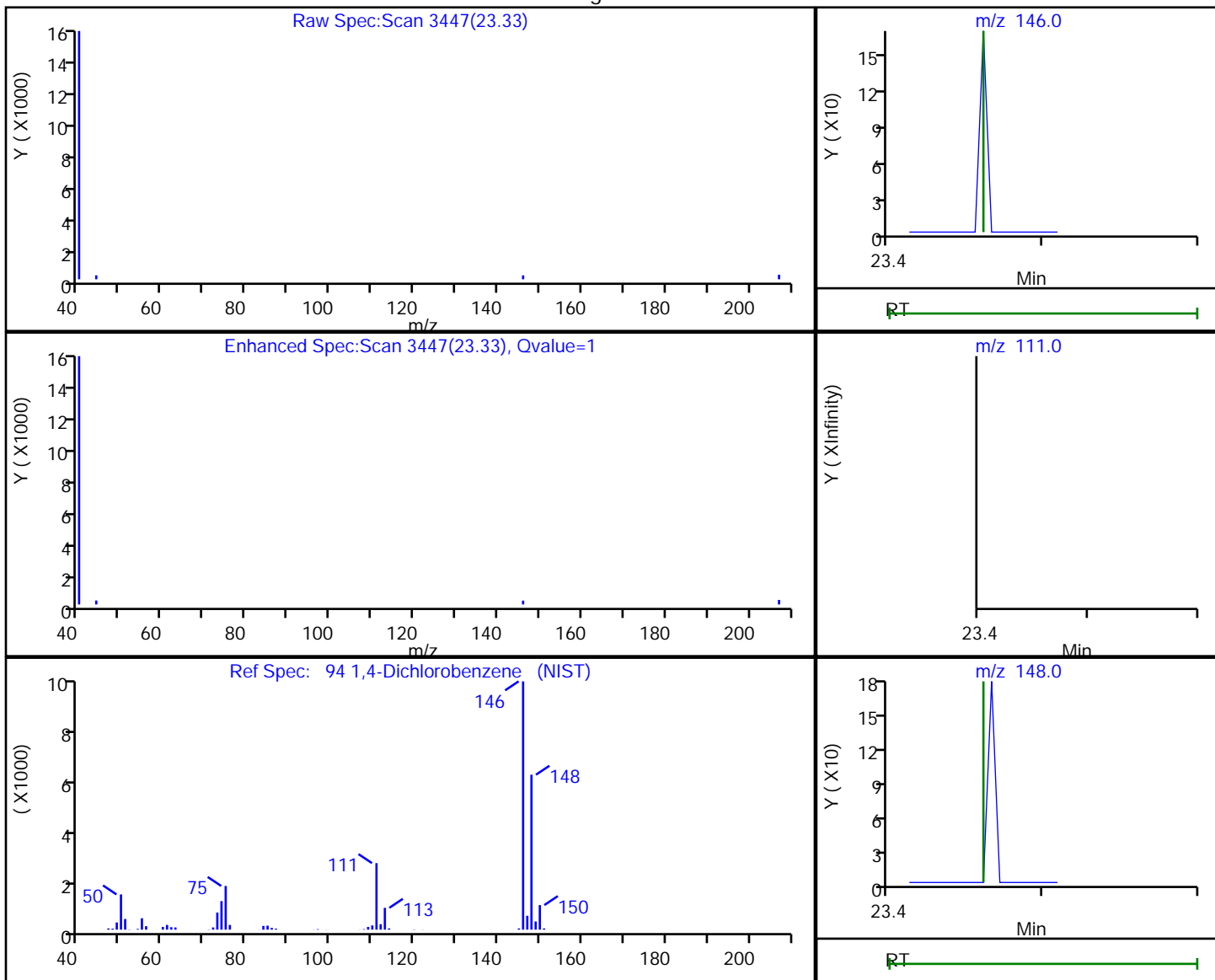
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
Lims ID: mb  
Client ID:  
Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
Purge Vol: 200.000 mL Dil. Factor: 1.0000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

94 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
23.33	146.00	127	0.003913
23.46	111.00	0	
23.46	148.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:05

Audit Action: Marked Compound Undetected

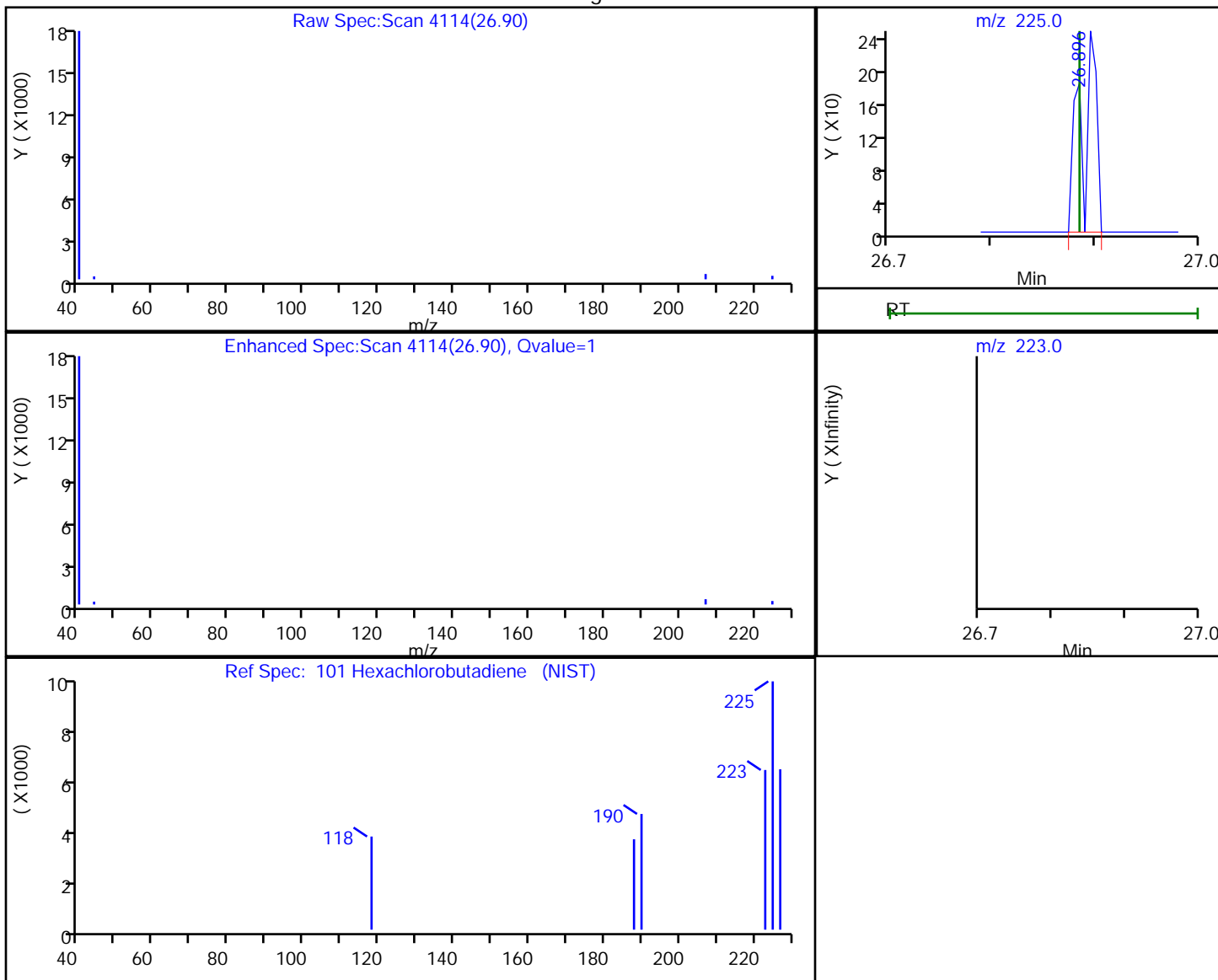
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-04.d  
 Injection Date: 11-Sep-2018 14:32:30 Instrument ID: CHW.i  
 Lims ID: mb  
 Client ID:  
 Operator ID: vtp ALS Bottle#: 3 Worklist Smp#: 4  
 Purge Vol: 200.000 mL Dil. Factor: 1.0000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

101 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
26.90	225.00	249	0.010138
26.88	223.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:10:41

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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31773-01.D BFB Injection Date: 08/13/2018  
 Instrument ID: CHB.i BFB Injection Time: 16:24  
 Analysis Batch No.: 132849

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	9.4	
75	30.0 - 66.0% of mass 95	34.0	
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	118.1	
175	4.0 - 9.0 % of mass 174	8.4	(7.1) 1
176	93.0 - 101.0% of mass 174	116.1	(98.3) 1
177	5.0 - 9.0% of mass 176	7.5	(6.5) 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 200-132849/3	31773-03.D	08/13/2018	18:07
	IC 200-132849/4	31773-04.D	08/13/2018	19:00
	IC 200-132849/5	31773-05.D	08/13/2018	19:54
	IC 200-132849/6	31773-06.D	08/13/2018	20:47
	ICIS 200-132849/7	31773-07.D	08/13/2018	21:40
	IC 200-132849/8	31773-08.D	08/13/2018	22:34
	IC 200-132849/9	31773-09.D	08/13/2018	23:27
	IC 200-132849/10	31773-10.D	08/14/2018	00:20
	ICV 200-132849/14	31773-14.D	08/14/2018	03:53



FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31846-01.D BFB Injection Date: 08/21/2018  
 Instrument ID: CHB.i BFB Injection Time: 09:29  
 Analysis Batch No.: 133106

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	10.6	
75	30.0 - 66.0% of mass 95	36.4	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.8	
173	Less than 2.0% of mass 174	0.0	(0.0) 1
174	50.0 - 120.0% of mass 95	107.6	
175	4.0 - 9.0 % of mass 174	7.8	(7.3) 1
176	93.0 - 101.0% of mass 174	104.9	(97.5) 1
177	5.0 - 9.0% of mass 176	6.9	(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 200-133106/3	31846-03.D	08/21/2018	11:14
	LCS 200-133106/4	31846-04.D	08/21/2018	12:07
	MB 200-133106/5	31846-05.D	08/21/2018	13:00
2723	200-44895-2	31846-21.D	08/22/2018	03:33

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31797-01.d BFB Injection Date: 08/15/2018  
 Instrument ID: CHW.i BFB Injection Time: 15:42  
 Analysis Batch No.: 132926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.1	
75	30.0 - 66.0% of mass 95	48.6	
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	0.7	(0.8) 1
174	50.0 - 120.0% of mass 95	92.8	
175	4.0 - 9.0 % of mass 174	6.7	(7.2) 1
176	93.0 - 101.0% of mass 174	91.6	(98.7) 1
177	5.0 - 9.0% of mass 176	5.9	(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 200-132926/4	31797-04.d	08/15/2018	18:38
	IC 200-132926/5	31797-05.d	08/15/2018	19:32
	IC 200-132926/6	31797-06.d	08/15/2018	20:27
	IC 200-132926/7	31797-07.d	08/15/2018	21:22
	ICIS 200-132926/8	31797-08.d	08/15/2018	22:17
	IC 200-132926/9	31797-09.d	08/15/2018	23:11
	IC 200-132926/10	31797-10.d	08/16/2018	00:06
	IC 200-132926/11	31797-11.d	08/16/2018	01:00
	ICV 200-132926/14	31797-14.d	08/16/2018	03:44

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-01.d BFB Injection Date: 09/11/2018  
 Instrument ID: CHW.i BFB Injection Time: 11:38  
 Analysis Batch No.: 133921

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.4	
75	30.0 - 66.0% of mass 95	50.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.9	(1.0) 1
174	50.0 - 120.0% of mass 95	97.1	
175	4.0 - 9.0 % of mass 174	7.3	(7.5) 1
176	93.0 - 101.0% of mass 174	93.7	(96.5) 1
177	5.0 - 9.0% of mass 176	6.4	(6.8) 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 200-133921/2	32143-02.d	09/11/2018	12:42
	LCS 200-133921/3	32143-03.d	09/11/2018	13:37
	MB 200-133921/4	32143-04.d	09/11/2018	14:32
4323	200-45152-10	32143-15.d	09/12/2018	00:41

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31797-01.d BFB Injection Date: 08/15/2018  
 Instrument ID: CHW.i BFB Injection Time: 15:42  
 Analysis Batch No.: 132926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.1	
75	30.0 - 66.0% of mass 95	48.6	
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	0.7	(0.8) 1
174	50.0 - 120.0% of mass 95	92.8	
175	4.0 - 9.0 % of mass 174	6.7	(7.2) 1
176	93.0 - 101.0% of mass 174	91.6	(98.7) 1
177	5.0 - 9.0% of mass 176	5.9	(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 200-132926/4	31797-04.d	08/15/2018	18:38
	IC 200-132926/5	31797-05.d	08/15/2018	19:32
	IC 200-132926/6	31797-06.d	08/15/2018	20:27
	IC 200-132926/7	31797-07.d	08/15/2018	21:22
	ICIS 200-132926/8	31797-08.d	08/15/2018	22:17
	IC 200-132926/9	31797-09.d	08/15/2018	23:11
	IC 200-132926/10	31797-10.d	08/16/2018	00:06
	IC 200-132926/11	31797-11.d	08/16/2018	01:00
	ICV 200-132926/14	31797-14.d	08/16/2018	03:44

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-01.d BFB Injection Date: 09/11/2018  
 Instrument ID: CHW.i BFB Injection Time: 11:38  
 Analysis Batch No.: 133921

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.4	
75	30.0 - 66.0% of mass 95	50.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.9	(1.0) 1
174	50.0 - 120.0% of mass 95	97.1	
175	4.0 - 9.0 % of mass 174	7.3	(7.5) 1
176	93.0 - 101.0% of mass 174	93.7	(96.5) 1
177	5.0 - 9.0% of mass 176	6.4	(6.8) 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 200-133921/2	32143-02.d	09/11/2018	12:42
	LCS 200-133921/3	32143-03.d	09/11/2018	13:37
	MB 200-133921/4	32143-04.d	09/11/2018	14:32
4249	200-45174-12	32143-20.d	09/12/2018	05:18

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 31797-01.d BFB Injection Date: 08/15/2018  
 Instrument ID: CHW.i BFB Injection Time: 15:42  
 Analysis Batch No.: 132926

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	19.1	
75	30.0 - 66.0% of mass 95	48.6	
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	0.7	(0.8) 1
174	50.0 - 120.0% of mass 95	92.8	
175	4.0 - 9.0 % of mass 174	6.7	(7.2) 1
176	93.0 - 101.0% of mass 174	91.6	(98.7) 1
177	5.0 - 9.0% of mass 176	5.9	(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 200-132926/4	31797-04.d	08/15/2018	18:38
	IC 200-132926/5	31797-05.d	08/15/2018	19:32
	IC 200-132926/6	31797-06.d	08/15/2018	20:27
	IC 200-132926/7	31797-07.d	08/15/2018	21:22
	ICIS 200-132926/8	31797-08.d	08/15/2018	22:17
	IC 200-132926/9	31797-09.d	08/15/2018	23:11
	IC 200-132926/10	31797-10.d	08/16/2018	00:06
	IC 200-132926/11	31797-11.d	08/16/2018	01:00
	ICV 200-132926/14	31797-14.d	08/16/2018	03:44

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 32143-01.d BFB Injection Date: 09/11/2018  
 Instrument ID: CHW.i BFB Injection Time: 11:38  
 Analysis Batch No.: 133921

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	20.4	
75	30.0 - 66.0% of mass 95	50.8	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.9	
173	Less than 2.0% of mass 174	0.9	(1.0) 1
174	50.0 - 120.0% of mass 95	97.1	
175	4.0 - 9.0 % of mass 174	7.3	(7.5) 1
176	93.0 - 101.0% of mass 174	93.7	(96.5) 1
177	5.0 - 9.0% of mass 176	6.4	(6.8) 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 200-133921/2	32143-02.d	09/11/2018	12:42
	LCS 200-133921/3	32143-03.d	09/11/2018	13:37
	MB 200-133921/4	32143-04.d	09/11/2018	14:32
5065	200-45175-12	32143-14.d	09/11/2018	23:30

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-132849/7 Date Analyzed: 08/13/2018 21:40  
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31773-07.D Heated Purge: (Y/N) N  
 Calibration ID: 39905

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	251316	9.68	1186406	11.08	1044232	15.19
UPPER LIMIT	351842	10.01	1660968	11.41	1461925	15.52
LOWER LIMIT	150790	9.35	711844	10.75	626539	14.86
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-132849/14	271050	9.68	1267522	11.08	1077301	15.19

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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-133106/3 Date Analyzed: 08/21/2018 11:14  
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31846-03.D Heated Purge: (Y/N) N  
 Calibration ID: 39905

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	331559	9.68	1537341	11.08	1361921	15.19
UPPER LIMIT	464183	10.01	2152277	11.41	1906689	15.52
LOWER LIMIT	198935	9.35	922405	10.75	817153	14.86
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 200-133106/4	320238	9.68	1497803	11.08	1306200	15.19
MB 200-133106/5	312575	9.67	1472485	11.08	1269262	15.19
200-44895-2	2723	327847	9.67	1539490	11.08	1314360

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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-132926/8 Date Analyzed: 08/15/2018 22:17  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31797-08.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	110914	12.36	560954	14.07	523375	19.53
UPPER LIMIT	155280	12.69	785336	14.40	732725	19.86
LOWER LIMIT	66548	12.03	336572	13.74	314025	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-132926/14		135830	12.36	682740	14.07	632594 19.53

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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-133921/2 Date Analyzed: 09/11/2018 12:42  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 32143-02.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	77856	12.37	388298	14.07	365646	19.53
UPPER LIMIT	108998	12.70	543617	14.40	511904	19.86
LOWER LIMIT	46714	12.04	232979	13.74	219388	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 200-133921/3	81908	12.36	401062	14.06	385637	19.53
MB 200-133921/4	91677	12.36	456636	14.07	378094	19.53
200-45152-10	4323	70228	12.36	346320	14.07	292725

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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-132926/8 Date Analyzed: 08/15/2018 22:17  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31797-08.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	110914	12.36	560954	14.07	523375	19.53
UPPER LIMIT	155280	12.69	785336	14.40	732725	19.86
LOWER LIMIT	66548	12.03	336572	13.74	314025	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-132926/14	135830	12.36	682740	14.07	632594	19.53

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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-133921/2 Date Analyzed: 09/11/2018 12:42  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 32143-02.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	77856	12.37	388298	14.07	365646	19.53	
UPPER LIMIT	108998	12.70	543617	14.40	511904	19.86	
LOWER LIMIT	46714	12.04	232979	13.74	219388	19.20	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-133921/3	81908	12.36	401062	14.06	385637	19.53	
MB 200-133921/4	91677	12.36	456636	14.07	378094	19.53	
200-45174-12	4249	66091	12.36	328782	14.07	277770	19.53

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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-132926/8 Date Analyzed: 08/15/2018 22:17  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 31797-08.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	110914	12.36	560954	14.07	523375	19.53
UPPER LIMIT	155280	12.69	785336	14.40	732725	19.86
LOWER LIMIT	66548	12.03	336572	13.74	314025	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-132926/14	135830	12.36	682740	14.07	632594	19.53

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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-133921/2 Date Analyzed: 09/11/2018 12:42  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): 32143-02.d Heated Purge: (Y/N) N  
 Calibration ID: 39919

	BCM		DFBZ		CBNZd5	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	77856	12.37	388298	14.07	365646	19.53
UPPER LIMIT	108998	12.70	543617	14.40	511904	19.86
LOWER LIMIT	46714	12.04	232979	13.74	219388	19.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 200-133921/3	81908	12.36	401062	14.06	385637	19.53
MB 200-133921/4	91677	12.36	456636	14.07	378094	19.53
200-45175-12	5065	70854	12.37	352060	14.07	298968

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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2723 Lab Sample ID: 200-44895-2  
 Matrix: Air Lab File ID: 31846-21.D  
 Analysis Method: TO-15 Date Collected: 08/20/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 08/22/2018 03:33  
 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.: 133106 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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2723 Lab Sample ID: 200-44895-2  
 Matrix: Air Lab File ID: 31846-21.D  
 Analysis Method: TO-15 Date Collected: 08/20/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 08/22/2018 03:33  
 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.: 133106 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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 2723 Lab Sample ID: 200-44895-2  
 Matrix: Air Lab File ID: 31846-21.D  
 Analysis Method: TO-15 Date Collected: 08/20/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 08/22/2018 03:33  
 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.: 133106 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\CHB.i\20180821-31846.b\31846-21.D  
 Lims ID: 200-44895-A-2  
 Client ID: 2723  
 Sample Type: Client  
 Inject. Date: 22-Aug-2018 03:33:30 ALS Bottle#: 2 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0031846-021  
 Operator ID: ert Instrument ID: CHB.i  
 Method: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\TO15\_LLNJ\_TO3.m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 22-Aug-2018 15:24:17 Calib Date: 14-Aug-2018 00:20:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal/External Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHB.i\20180813-31773.b\31773-10.D  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK024

First Level Reviewer: puangmaleek Date: 22-Aug-2018 15:24:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.135				ND	
2 Dichlorodifluoromethane	85		3.193				ND	
3 Chlorodifluoromethane	51		3.225				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.407				ND	
5 Chloromethane	50		3.535				ND	
6 Butane	43		3.706				ND	U
7 Vinyl chloride	62		3.743				ND	
8 Butadiene	54		3.807				ND	
10 Bromomethane	94		4.469				ND	
11 Chloroethane	64		4.698				ND	
13 Vinyl bromide	106		5.104				ND	
14 Trichlorofluoromethane	101		5.205				ND	
16 Ethanol	45		5.659				ND	
19 1,1,2-Trichloro-1,2,2-trif	101		6.230				ND	
20 1,1-Dichloroethene	96		6.299				ND	
21 Acetone	43		6.449				ND	U
22 Isopropyl alcohol	45		6.668				ND	
23 Carbon disulfide	76		6.732				ND	
24 3-Chloro-1-propene	41		6.998				ND	U
27 Methylene Chloride	49		7.260				ND	U
28 2-Methyl-2-propanol	59		7.367				ND	
29 Methyl tert-butyl ether	73		7.607				ND	
30 trans-1,2-Dichloroethene	61		7.666				ND	
32 Hexane	57	8.012	7.992	0.016	85	7272	0.1847	
33 1,1-Dichloroethane	63		8.407				ND	
34 Vinyl acetate	43		8.413				ND	
36 2-Butanone (MEK)	72		9.293				ND	
37 cis-1,2-Dichloroethene	96		9.309				ND	
35 Ethyl acetate	88		9.315				ND	
* 39 Chlorobromomethane	128	9.672	9.678	-0.006	71	327847	10.0	
38 Tetrahydrofuran	42		9.688				ND	U
40 Chloroform	83		9.752				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
S 41 1,2-Dichloroethene, Total	61		10.000				ND	
42 1,1,1-Trichloroethane	97		10.008				ND	
43 Cyclohexane	84		10.024				ND	
44 Carbon tetrachloride	117		10.222				ND	
45 Isooctane	57		10.499				ND	
46 Benzene	78	10.537	10.542	-0.005	91	8308	0.0944	
47 1,2-Dichloroethane	62		10.638				ND	
48 n-Heptane	43	10.761	10.755	0.005	83	4496	0.1324	
* 50 1,4-Difluorobenzene	114	11.081	11.081	0.000	90	1539490	10.0	
53 Trichloroethene	95		11.455				ND	
54 1,2-Dichloropropane	63		11.823				ND	
55 Methyl methacrylate	69		11.860				ND	U
56 1,4-Dioxane	88		11.951				ND	
57 Dibromomethane	174		12.010				ND	
58 Dichlorobromomethane	83		12.181				ND	
60 cis-1,3-Dichloropropene	75		12.805				ND	
61 4-Methyl-2-pentanone (MIBK)	43		12.954				ND	
64 Toluene	92	13.242	13.237	0.005	92	8693	0.1286	
66 trans-1,3-Dichloropropene	75		13.595				ND	
67 1,1,2-Trichloroethane	83		13.867				ND	
68 Tetrachloroethene	166		14.011				ND	
69 2-Hexanone	43		14.129				ND	U
70 Chlorodibromomethane	129		14.422				ND	
71 Ethylene Dibromide	107		14.625				ND	
* 72 Chlorobenzene-d5	117	15.190	15.191	-0.001	79	1314360	10.0	
73 Chlorobenzene	112		15.233				ND	
74 Ethylbenzene	91	15.297	15.297	0.000	94	9403	0.0660	
76 m-Xylene & p-Xylene	106	15.441	15.447	-0.006	0	19418	0.3191	
78 o-Xylene	106	15.959	15.959	0.000	96	4715	0.0786	
79 Styrene	104		15.980				ND	
S 77 Xylenes, Total	106				0		0.3978	
80 Bromoform	173		16.274				ND	
81 Isopropylbenzene	105		16.370				ND	U
83 1,1,2,2-Tetrachloroethane	83		16.776				ND	
84 N-Propylbenzene	91		16.850				ND	
87 4-Ethyltoluene	105	16.978	16.978	0.000	1	829	0.004992	7a
88 2-Chlorotoluene	91		17.016				ND	
89 1,3,5-Trimethylbenzene	105		17.043				ND	
91 tert-Butylbenzene	119		17.416				ND	U
92 1,2,4-Trimethylbenzene	105		17.485				ND	
93 sec-Butylbenzene	105		17.672				ND	U
94 4-Isopropyltoluene	119		17.827				ND	
95 1,3-Dichlorobenzene	146		17.902				ND	
96 1,4-Dichlorobenzene	146		18.014				ND	
97 Benzyl chloride	91		18.163				ND	
99 n-Butylbenzene	91		18.334				ND	
100 1,2-Dichlorobenzene	146		18.500				ND	
103 1,2,4-Trichlorobenzene	180		20.848				ND	
104 Hexachlorobutadiene	225		21.019				ND	
105 Naphthalene	128		21.328				ND	

[QC Flag Legend](#)

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

[Reagents:](#)

ATTO15BISs\_00006

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D

Injection Date: 22-Aug-2018 03:33:30

Instrument ID: CHB.i

Operator ID: ert

Lims ID: 200-44895-A-2

Lab Sample ID: 200-44895-2

Worklist Smp#: 21

Client ID: 2723

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

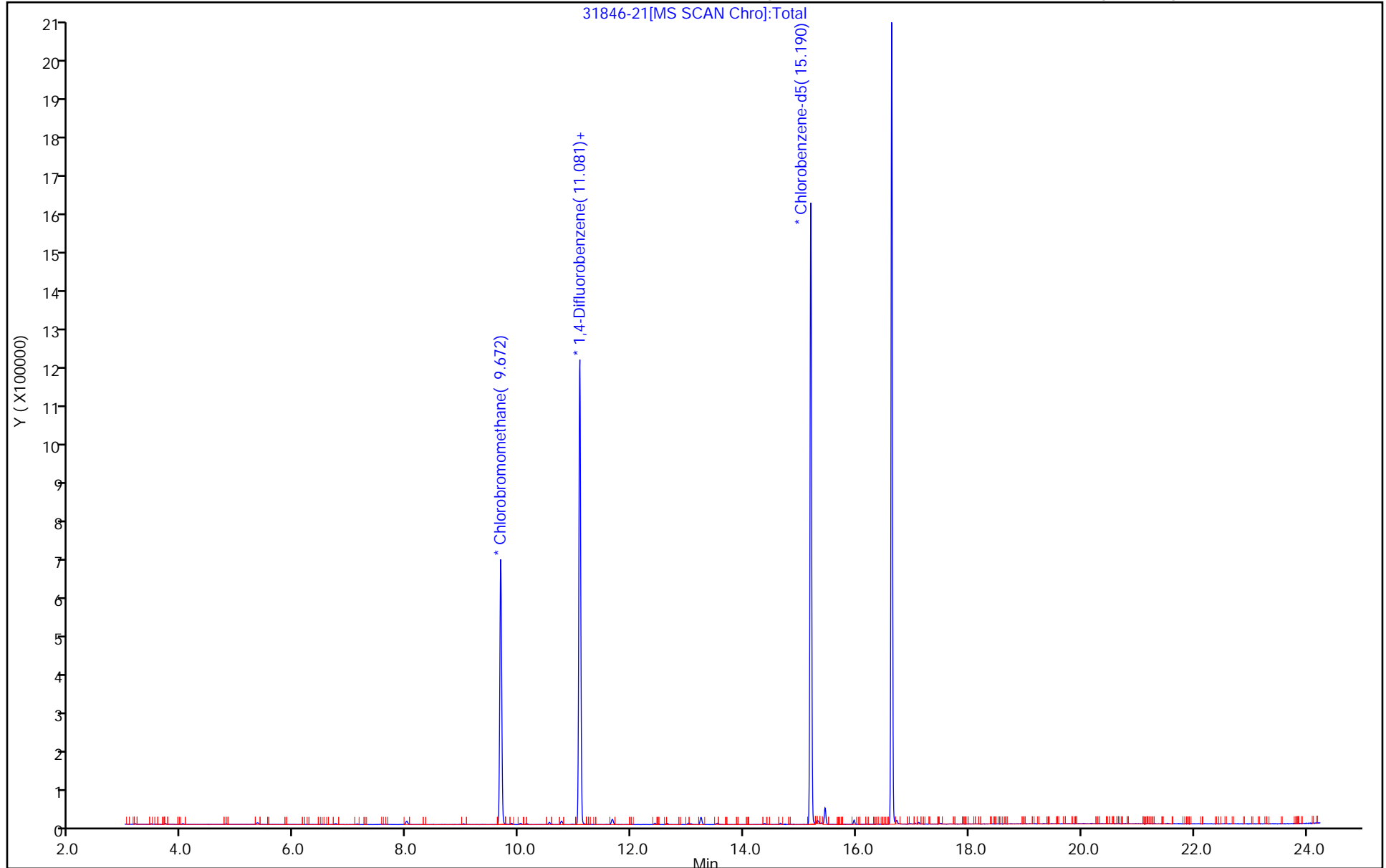
ALS Bottle#: 2

Method: TO15\_LLNJ\_TO3

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

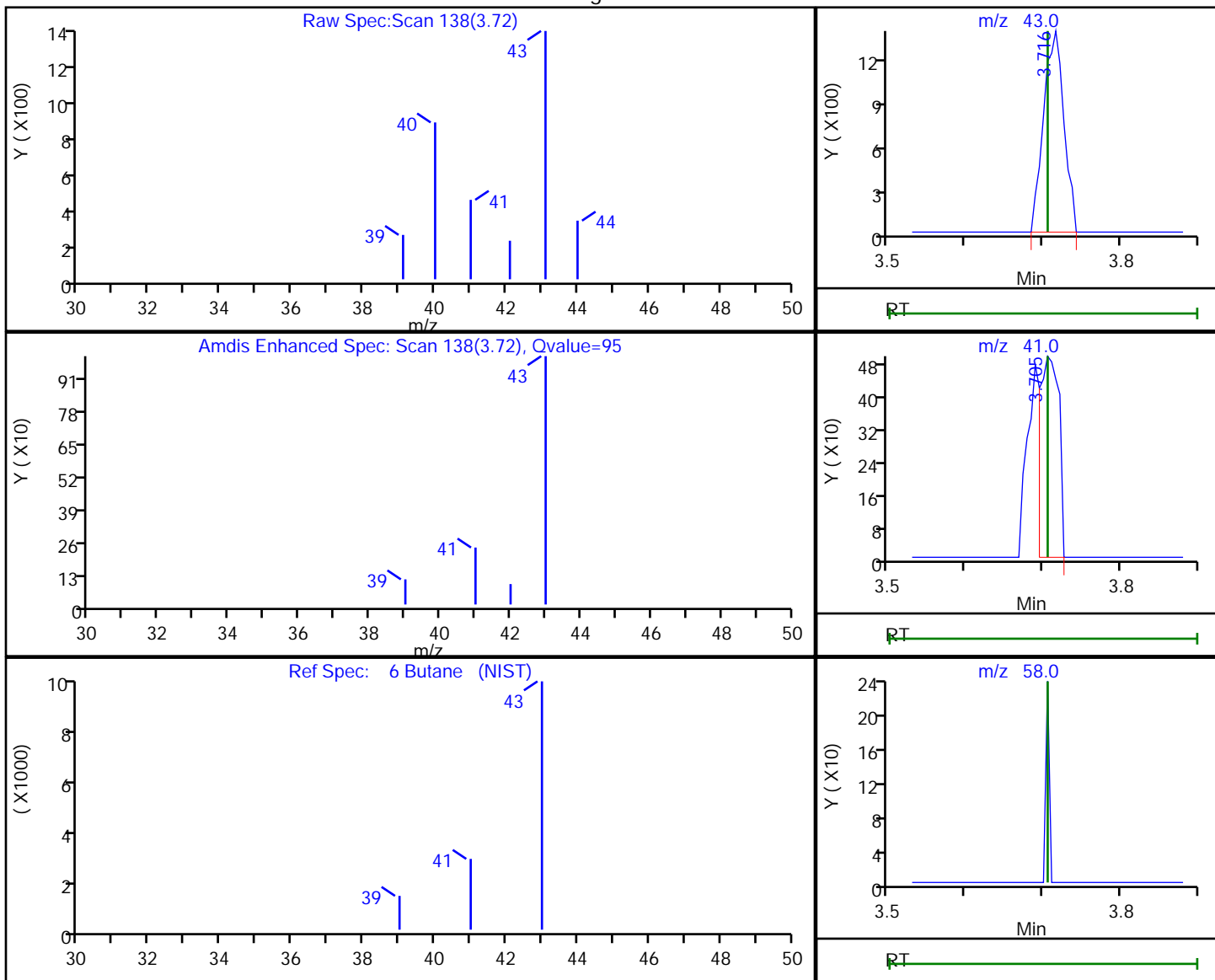


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
 Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
 Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
 Client ID: 2723  
 Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_LLNJ\_TO3 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
3.72	43.00	2497	0.114638
3.71	41.00	848	
3.71	58.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:20:07

Audit Action: Marked Compound Undetected

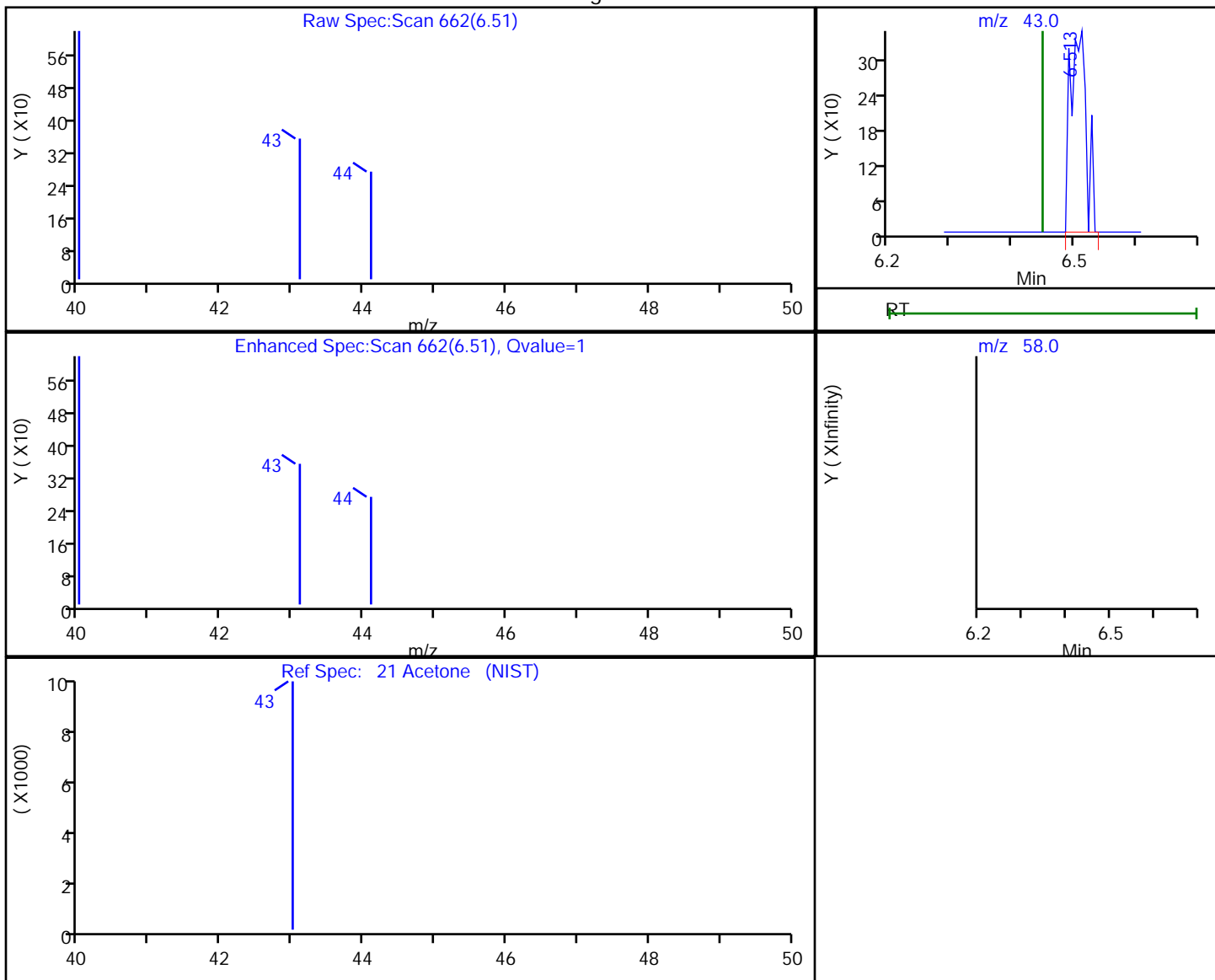
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
 Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
 Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
 Client ID: 2723  
 Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

21 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
6.51	43.00	630	0.026577
6.45	58.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:20:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

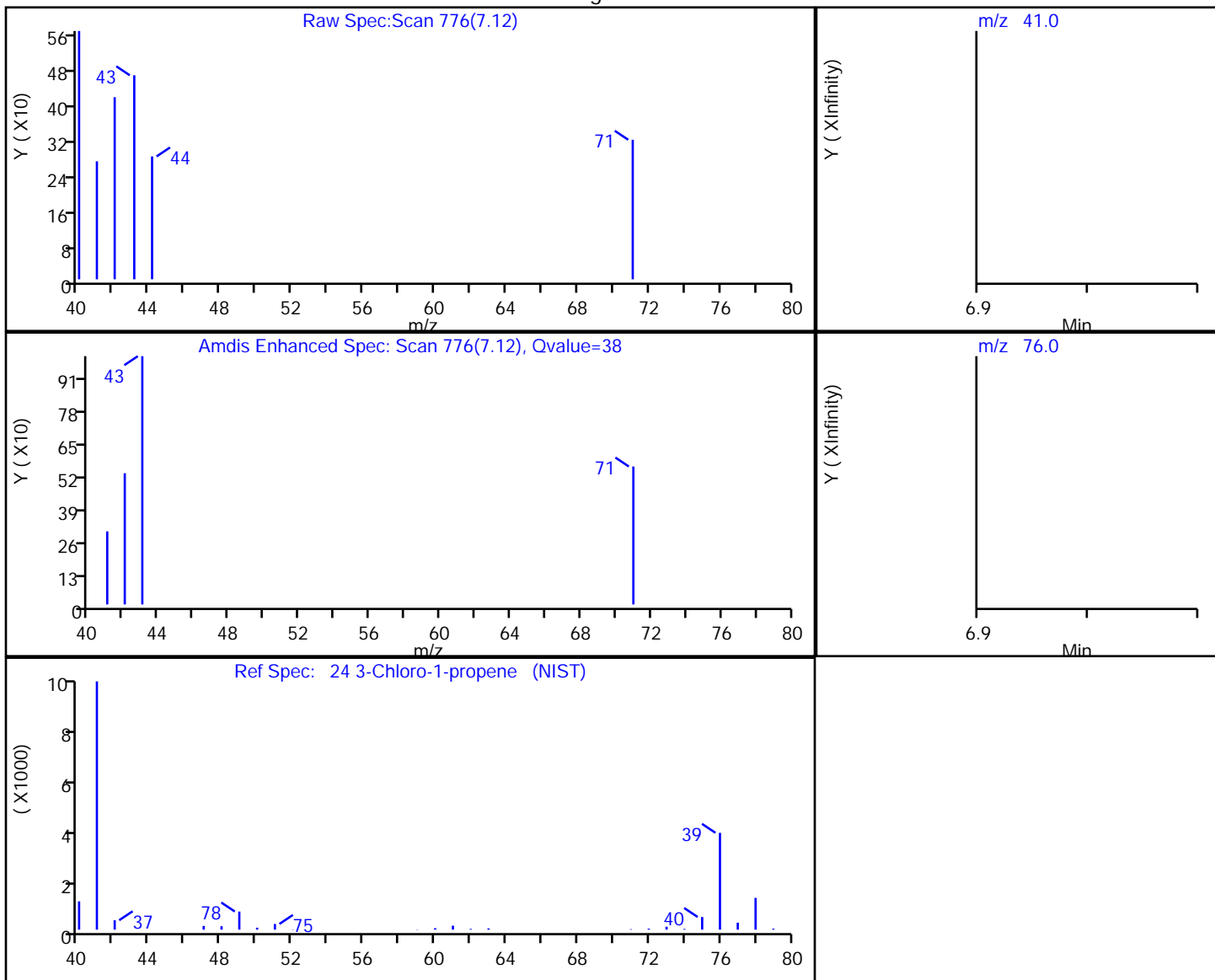


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
Client ID: 2723  
Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

24 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
7.12	41.00	233	0.011662
7.00	76.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:20:32

Audit Action: Marked Compound Undetected

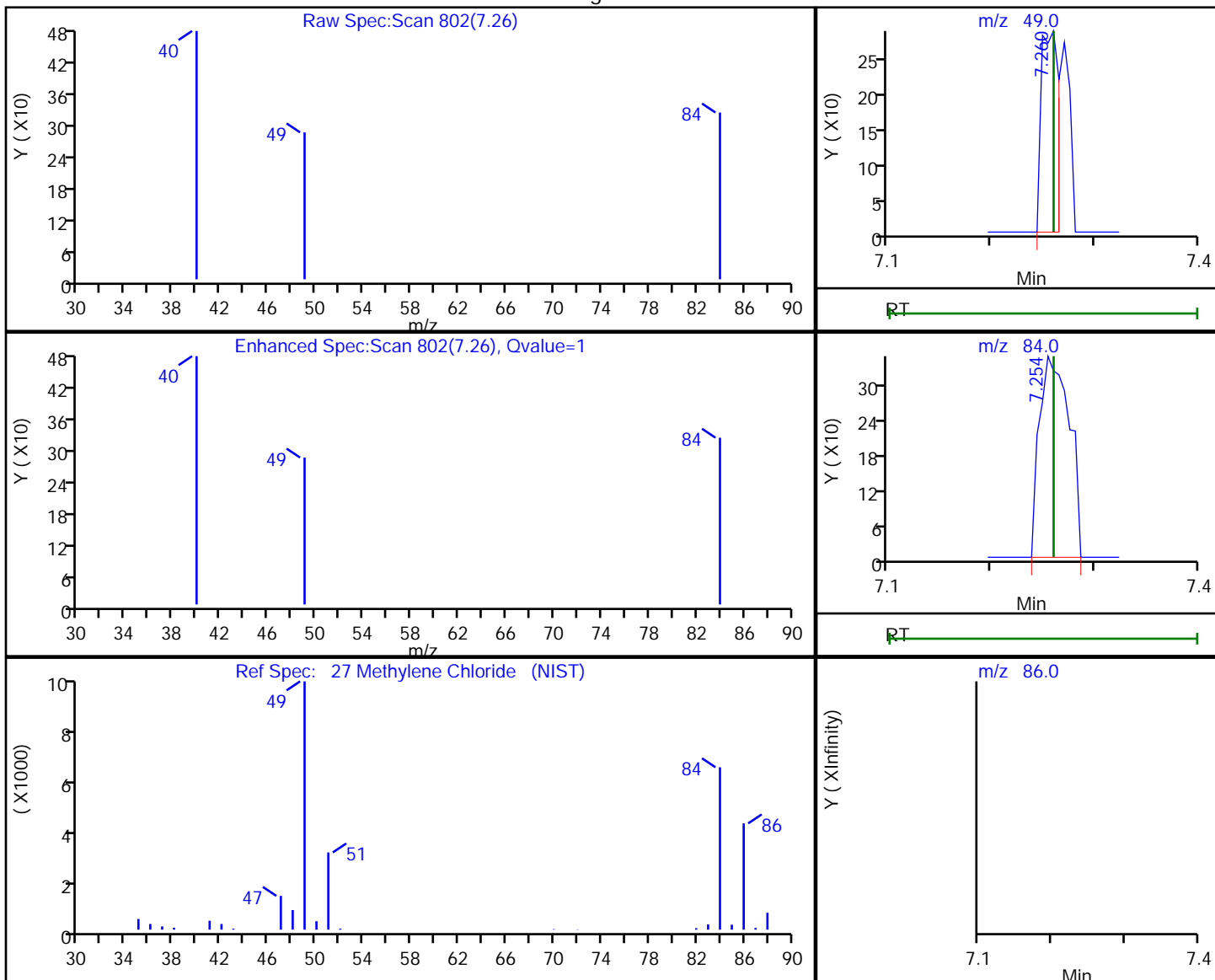
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
Client ID: 2723  
Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_LLNJ\_TO3 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
7.26	49.00	331	0.015659
7.25	84.00	695	
7.26	86.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:20:35

Audit Action: Marked Compound Undetected

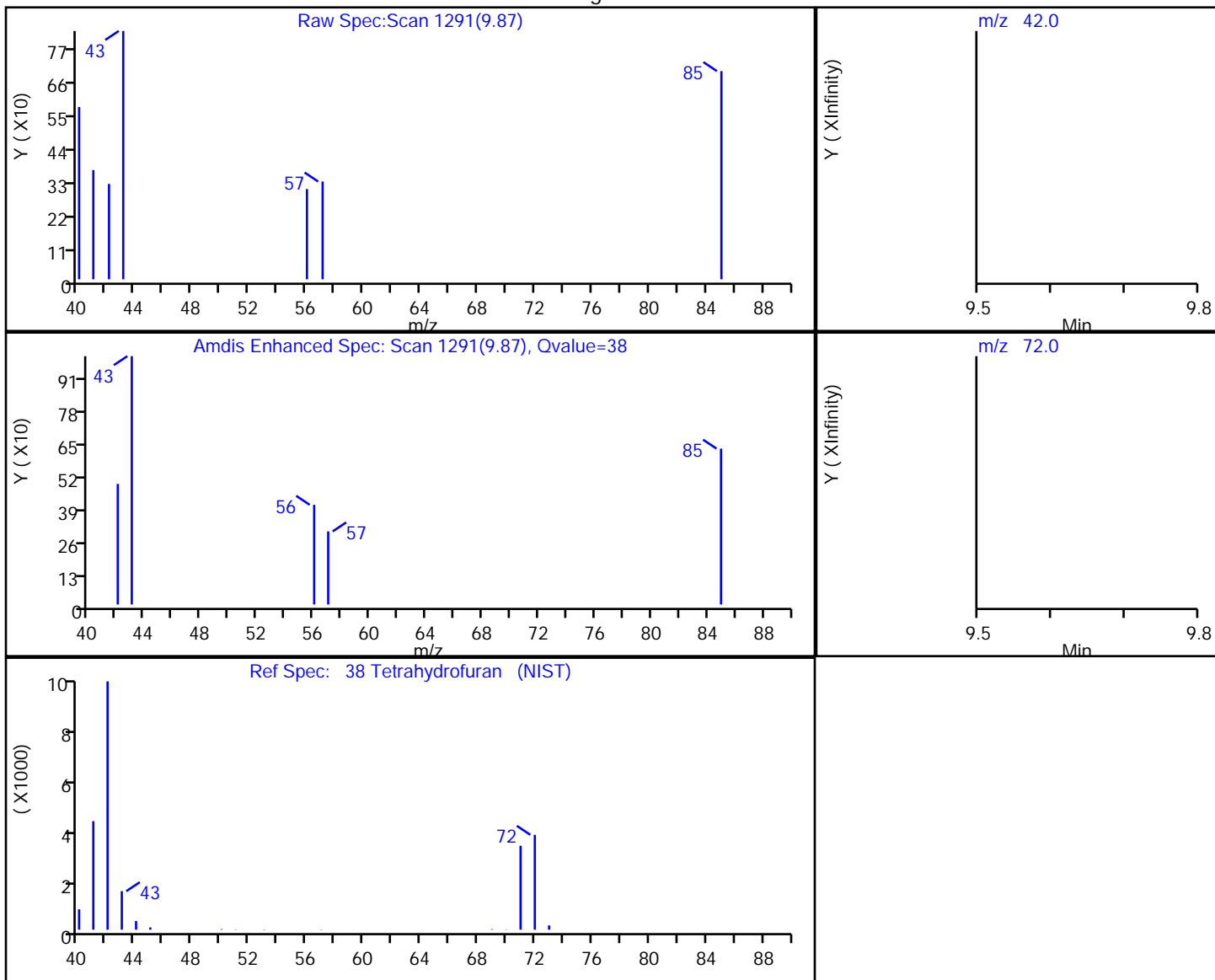
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
Client ID: 2723  
Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

38 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
9.87	42.00	430	0.022079
9.69	72.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:20:48

Audit Action: Marked Compound Undetected

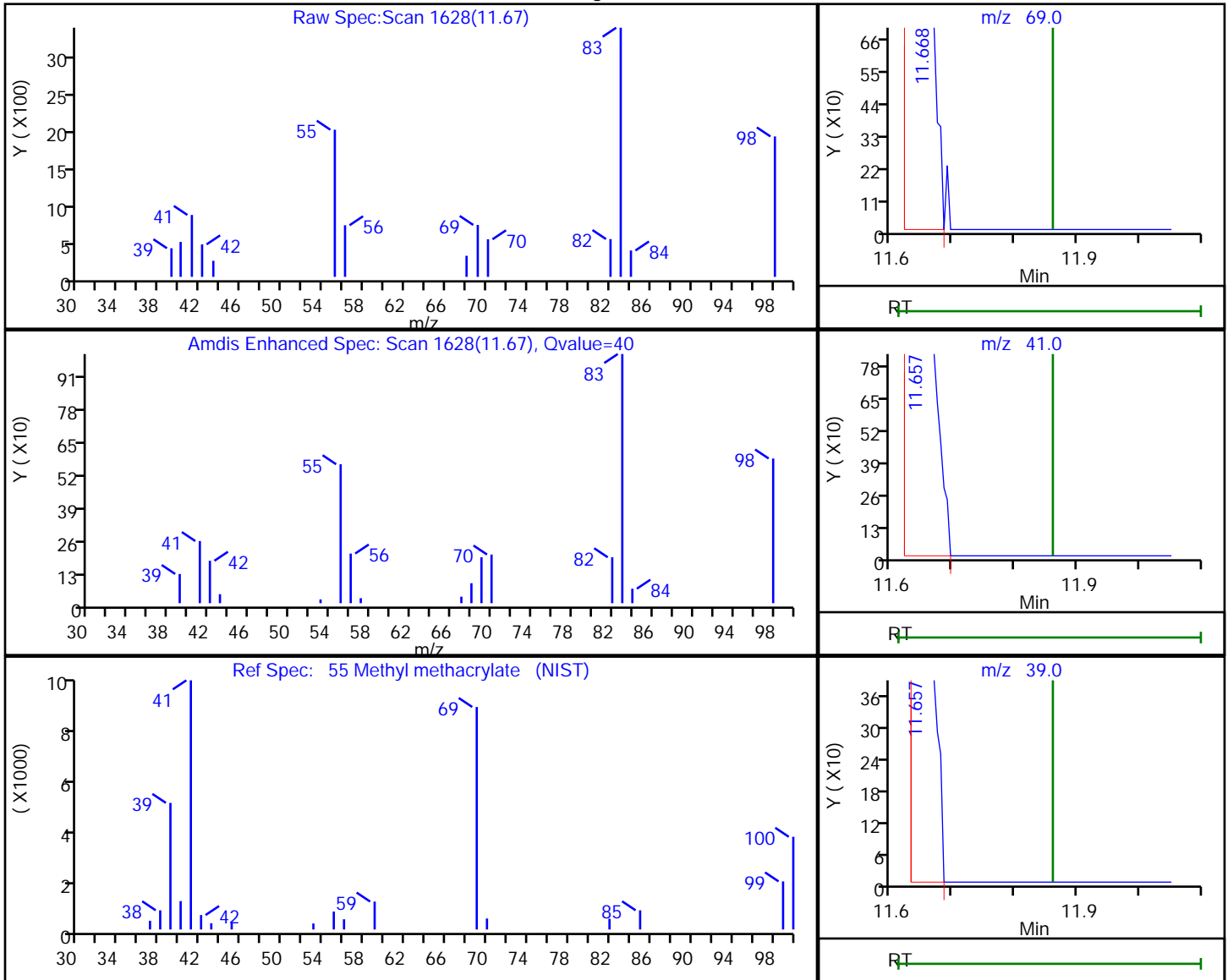
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
Client ID: 2723  
Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

55 Methyl methacrylate, CAS: 80-62-6

Processing Results



RT	Mass	Response	Amount
11.67	69.00	1663	0.058907
11.66	41.00	2304	
11.66	39.00	895	

Reviewer: puangmaleek, 22-Aug-2018 15:22:27

Audit Action: Marked Compound Undetected

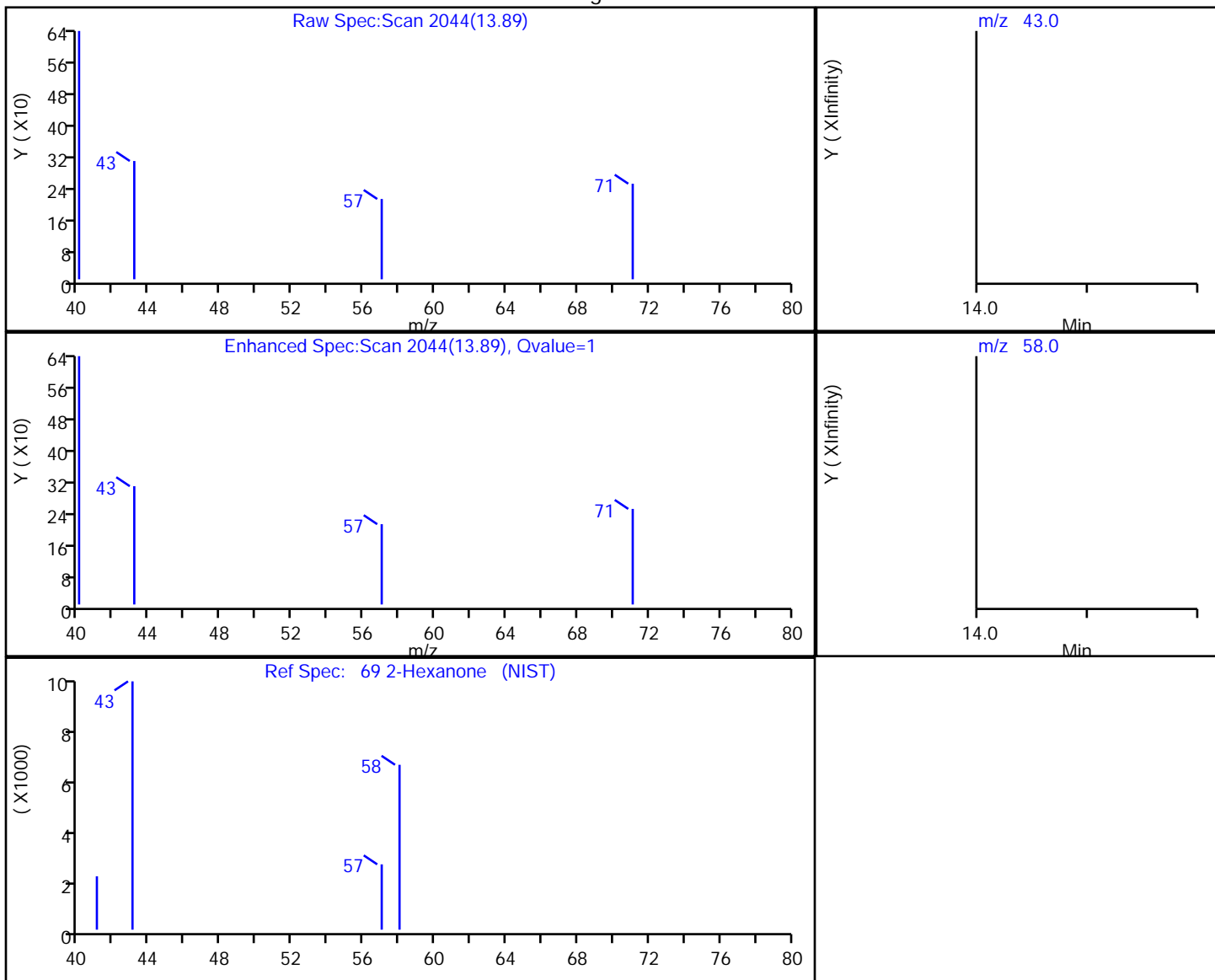
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
Client ID: 2723  
Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_LLNJ\_TO3 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
13.89	43.00	239	0.006117
14.13	58.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:22:42

Audit Action: Marked Compound Undetected

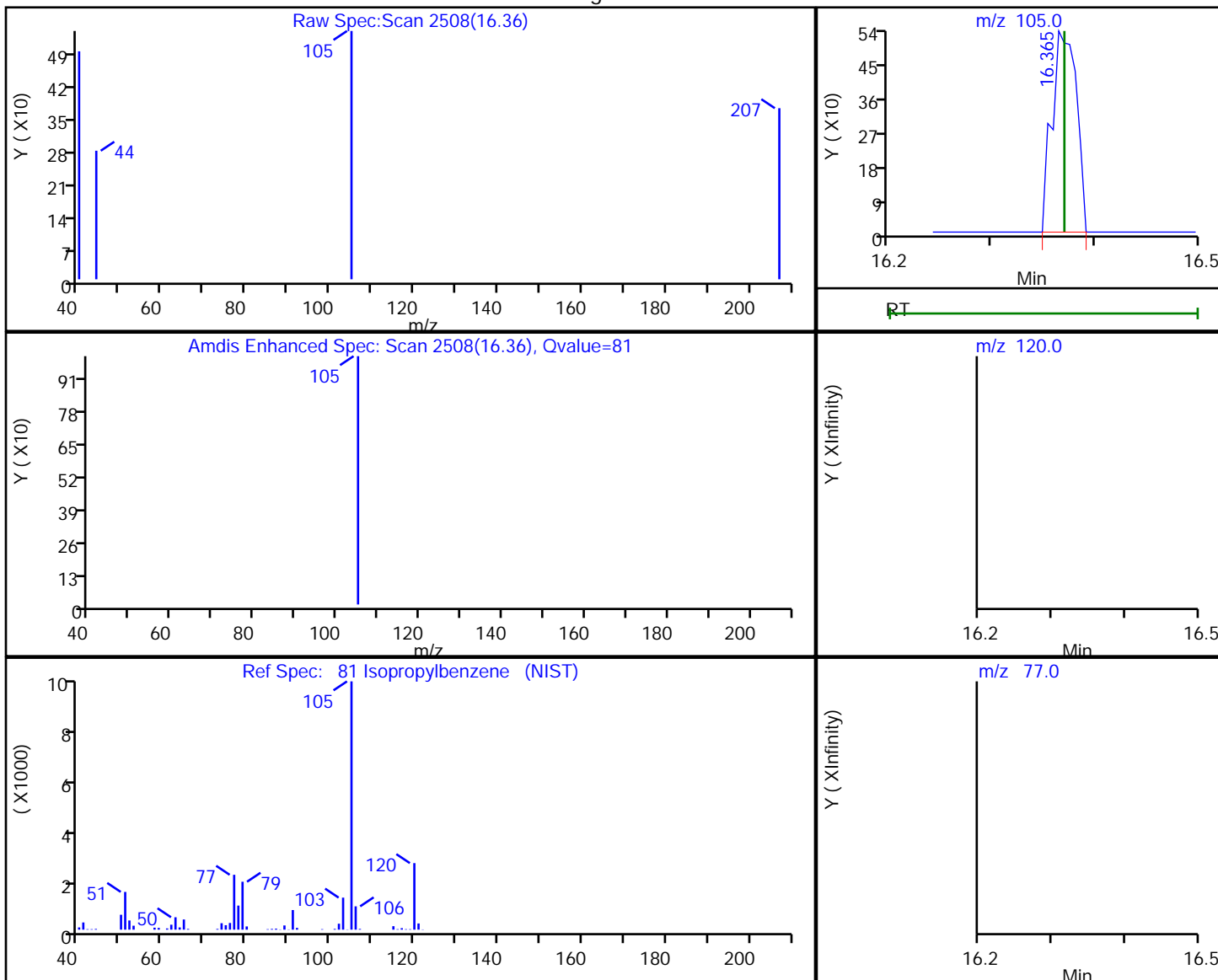
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
 Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
 Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
 Client ID: 2723  
 Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

81 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
16.36	105.00	886	0.005283
16.37	120.00	0	
16.37	77.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:23:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington

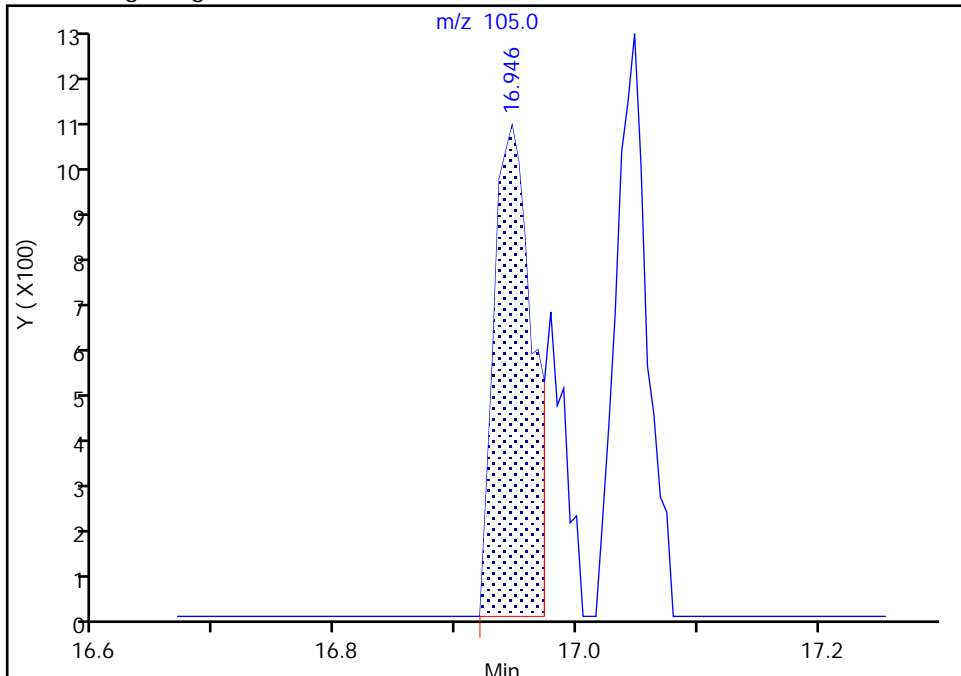
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Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
Client ID: 2723  
Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

87 4-Ethyltoluene, CAS: 622-96-8

Signal: 1

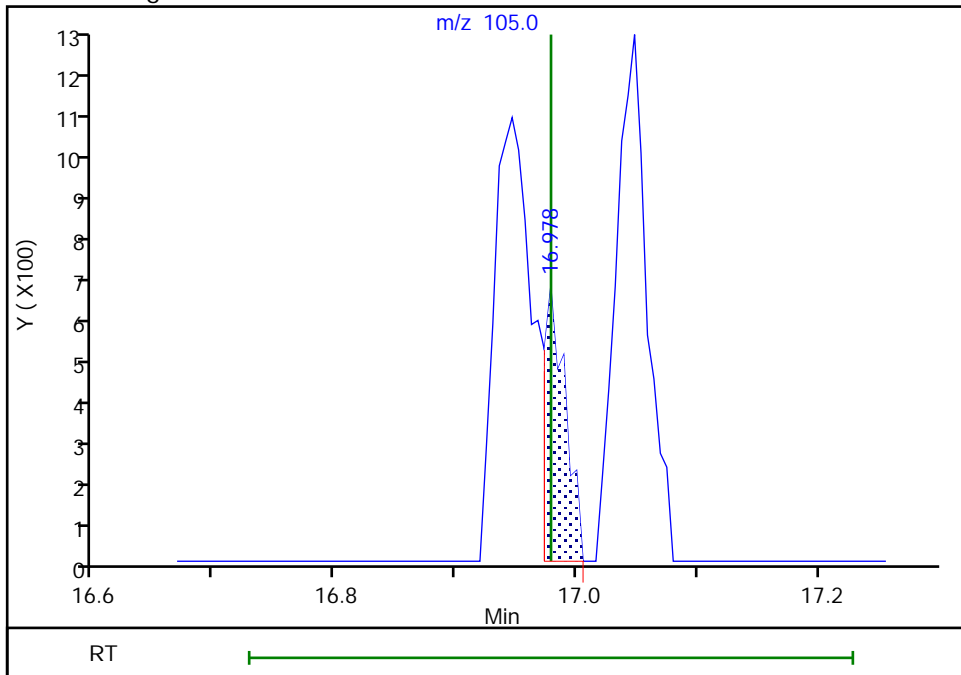
RT: 16.95  
Area: 2390  
Amount: 0.014392  
Amount Units: ppb v/v

Processing Integration Results



RT: 16.98  
Area: 829  
Amount: 0.004992  
Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 22-Aug-2018 15:23:50  
Audit Action: Assigned Compound ID

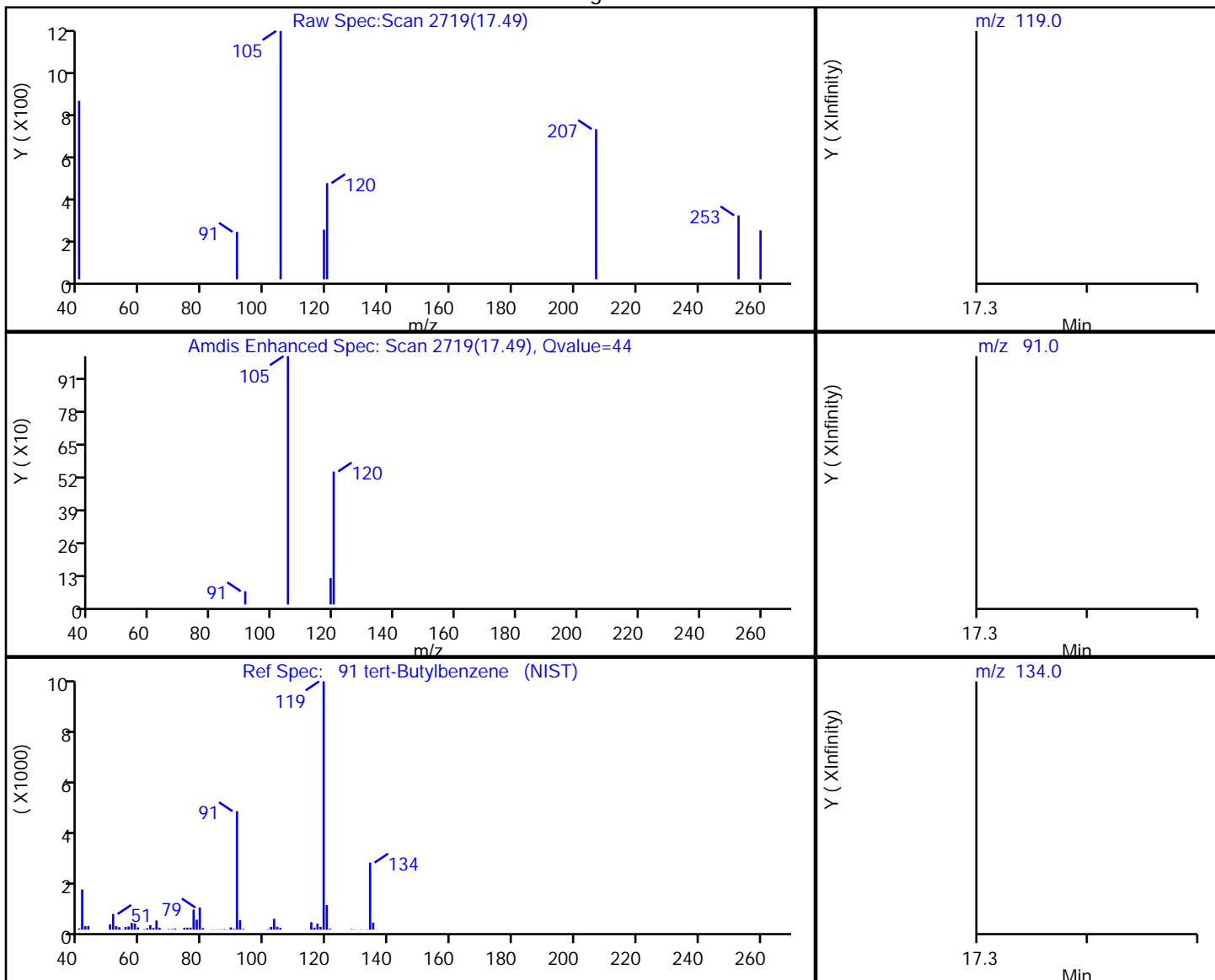
Audit Reason: Peak assignment corrected

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
 Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
 Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
 Client ID: 2723  
 Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_LLNJ\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

91 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
17.49	119.00	143	0.001029
17.42	91.00	0	
17.42	134.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:23:59

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

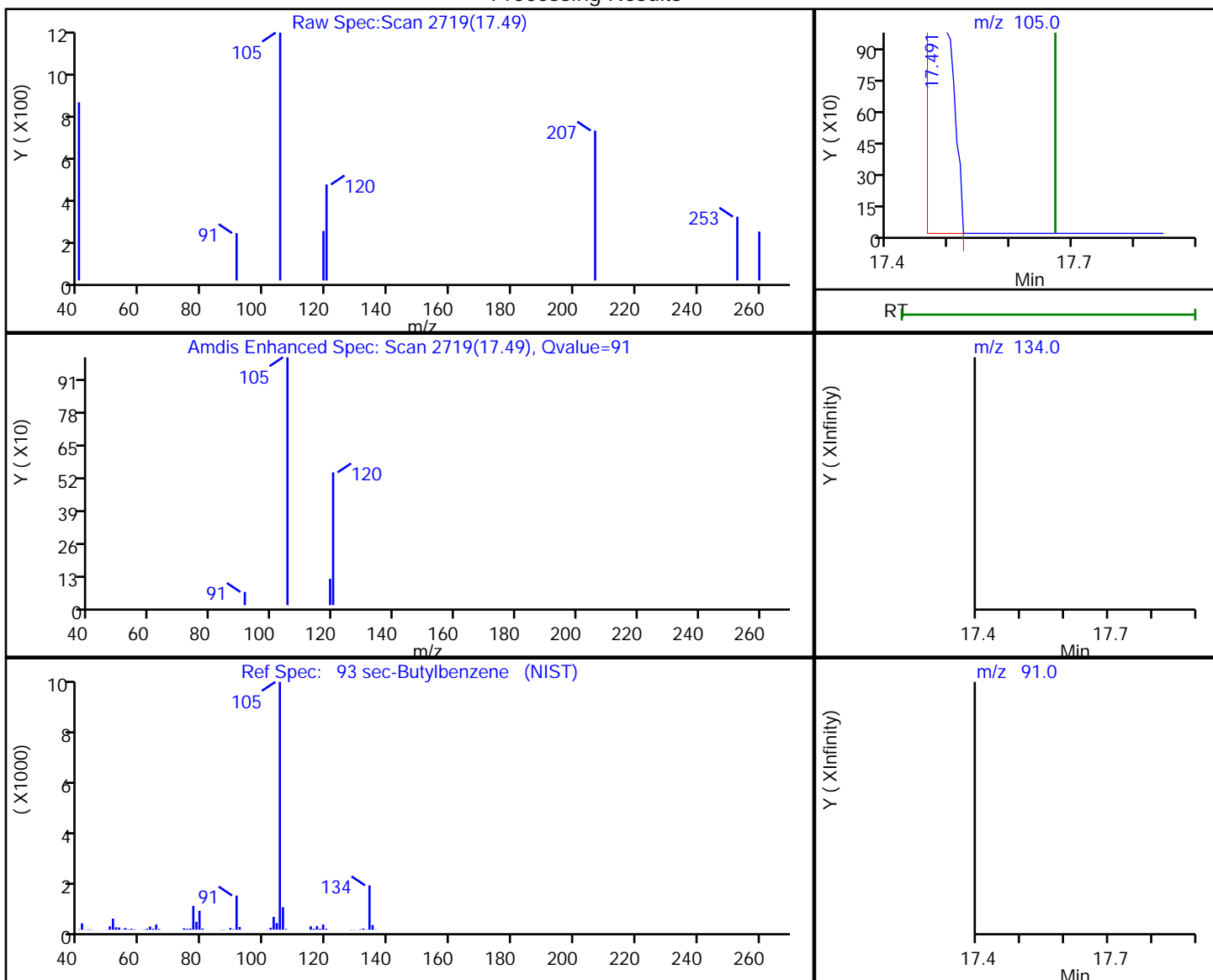


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHB.i\20180821-31846.b\31846-21.D  
 Injection Date: 22-Aug-2018 03:33:30 Instrument ID: CHB.i  
 Lims ID: 200-44895-A-2 Lab Sample ID: 200-44895-2  
 Client ID: 2723  
 Operator ID: ert ALS Bottle#: 2 Worklist Smp#: 21  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_LLNI\_TO3 Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 ( 0.32 mm) Detector: MS SCAN

93 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
17.49	105.00	2227	0.010810
17.67	134.00	0	
17.67	91.00	0	

Reviewer: puangmaleek, 22-Aug-2018 15:24:03

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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4323 Lab Sample ID: 200-45152-10  
 Matrix: Air Lab File ID: 32143-15.d  
 Analysis Method: TO-15 Date Collected: 09/07/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 00:41  
 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.: 133921 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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4323 Lab Sample ID: 200-45152-10  
 Matrix: Air Lab File ID: 32143-15.d  
 Analysis Method: TO-15 Date Collected: 09/07/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 00:41  
 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.: 133921 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.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4323 Lab Sample ID: 200-45152-10  
 Matrix: Air Lab File ID: 32143-15.d  
 Analysis Method: TO-15 Date Collected: 09/07/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 00:41  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-15.d  
 Lims ID: 200-45152-A-10  
 Client ID: 4323  
 Sample Type: Client  
 Inject. Date: 12-Sep-2018 00:41:30 ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0032143-015  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:48:26 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 13:48:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		5.042				ND	U
2 Dichlorodifluoromethane	85		5.154				ND	
3 Chlorodifluoromethane	51		5.235				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556				ND	
5 Chloromethane	50		5.753				ND	U
6 Butane	43		6.021				ND	
7 Vinyl chloride	62		6.080				ND	
8 Butadiene	54		6.171				ND	
9 Bromomethane	94		6.963				ND	
11 Chloroethane	64		7.219				ND	
13 Vinyl bromide	106		7.626				ND	
14 Trichlorofluoromethane	101		7.717				ND	
16 Ethanol	45		8.225				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723				ND	
21 1,1-Dichloroethene	96		8.787				ND	
22 Acetone	43		8.979				ND	
23 Carbon disulfide	76		9.183				ND	
24 Isopropyl alcohol	45	9.209	9.188	0.021	8	3714	0.2298	
25 3-Chloro-1-propene	41		9.488				ND	
27 Methylene Chloride	49		9.744				ND	U
28 2-Methyl-2-propanol	59		9.867				ND	
29 Methyl tert-butyl ether	73		10.076				ND	
30 trans-1,2-Dichloroethene	61		10.140				ND	
S 31 1,2-Dichloroethene, Total	61		10.200				ND	
33 Hexane	57		10.467				ND	
34 1,1-Dichloroethane	63		10.932				ND	
35 Vinyl acetate	43		10.959				ND	
36 cis-1,2-Dichloroethene	96		11.938				ND	
37 2-Butanone (MEK)	72		11.948				ND	
38 Ethyl acetate	88		11.959				ND	
39 Tetrahydrofuran	42		12.355				ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	94	70228	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		12.457				ND	
42 Cyclohexane	84		12.719				ND	
43 1,1,1-Trichloroethane	97		12.735				ND	
44 Carbon tetrachloride	117		12.960				ND	
45 Isooctane	57		13.307				ND	
46 Benzene	78		13.371				ND	
47 1,2-Dichloroethane	62		13.521				ND	
48 n-Heptane	43		13.628				ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	346320	10.0	
51 Trichloroethene	95		14.495				ND	
53 1,2-Dichloropropane	63		14.982				ND	
55 Methyl methacrylate	69		15.067				ND	
56 1,4-Dioxane	88		15.153				ND	
57 Dibromomethane	174		15.212				ND	
58 Dichlorobromomethane	83		15.447				ND	
59 cis-1,3-Dichloropropene	75		16.271				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.501				ND	
63 Toluene	92		16.817				ND	
64 trans-1,3-Dichloropropene	75		17.341				ND	
65 1,1,2-Trichloroethane	83		17.694				ND	
66 Tetrachloroethene	166		17.812				ND	
67 2-Hexanone	43		18.085				ND	
68 Chlorodibromomethane	129		18.422				ND	
69 Ethylene Dibromide	107		18.689				ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	292725	10.0	
72 Chlorobenzene	112		19.593				ND	
73 Ethylbenzene	91		19.716				ND	U
75 m-Xylene & p-Xylene	106		19.957				ND	
S 76 Xylenes, Total	106		20.100				ND	
77 o-Xylene	106		20.727				ND	
78 Styrene	104		20.770				ND	
79 Bromoform	173		21.166				ND	
80 Isopropylbenzene	105		21.332				ND	
81 1,1,2,2-Tetrachloroethane	83		21.936				ND	
82 N-Propylbenzene	91		22.006				ND	
85 4-Ethyltoluene	105		22.182				ND	
86 2-Chlorotoluene	91		22.204				ND	
87 1,3,5-Trimethylbenzene	105		22.284				ND	
89 tert-Butylbenzene	119		22.760				ND	
90 1,2,4-Trimethylbenzene	105		22.851				ND	
91 sec-Butylbenzene	105		23.076				ND	
92 4-Isopropyltoluene	119		23.274				ND	
93 1,3-Dichlorobenzene	146		23.322				ND	
94 1,4-Dichlorobenzene	146		23.461				ND	
95 Benzyl chloride	91		23.664				ND	
96 n-Butylbenzene	91		23.873				ND	
98 1,2-Dichlorobenzene	146		24.023				ND	
100 1,2,4-Trichlorobenzene	180		26.698				ND	
101 Hexachlorobutadiene	225		26.885				ND	
102 Naphthalene	128		27.227				ND	

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-15.d

Injection Date: 12-Sep-2018 00:41:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-45152-A-10

Lab Sample ID: 200-45152-10

Worklist Smp#: 15

Client ID: 4323

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

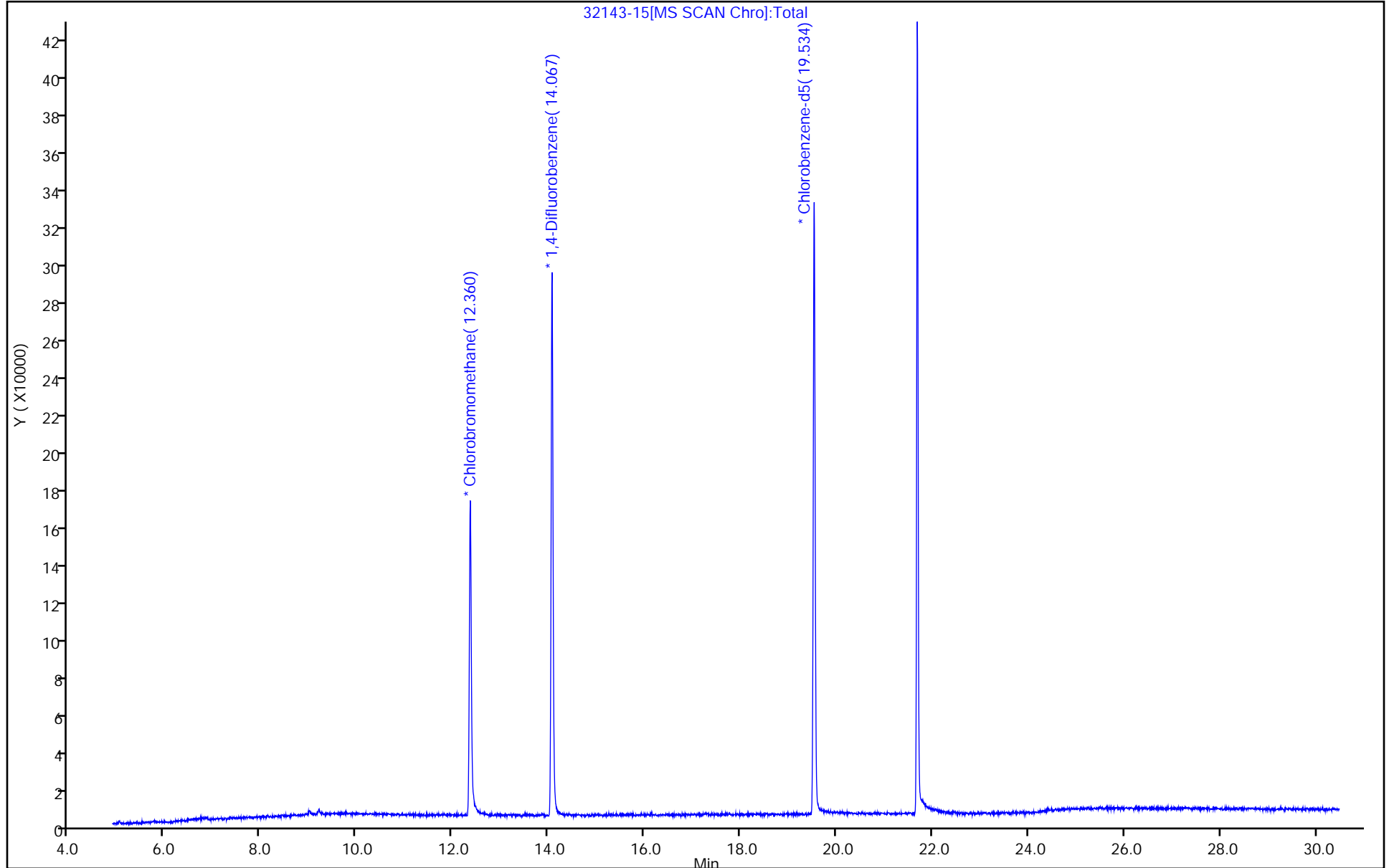
ALS Bottle#: 14

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



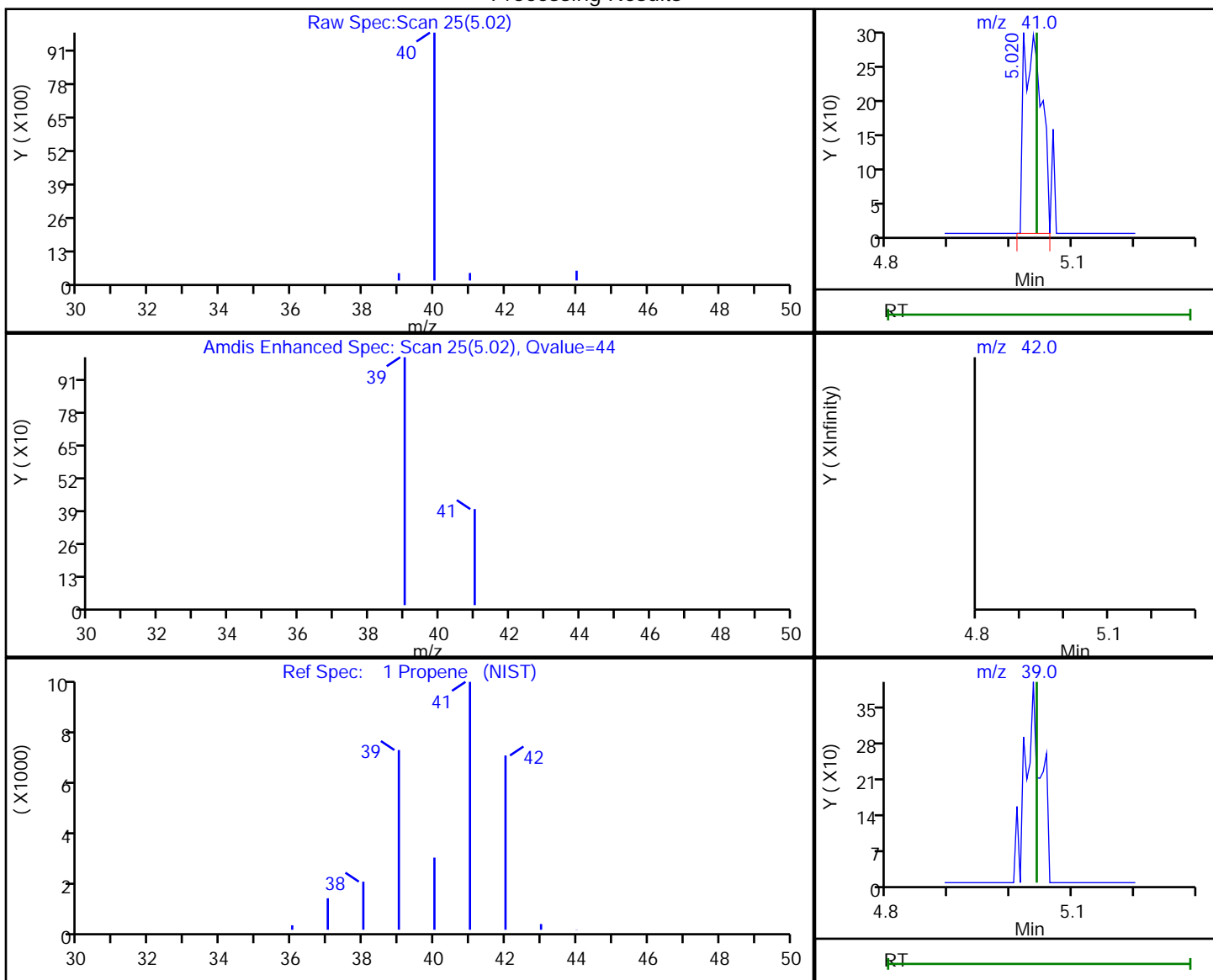


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-15.d  
Injection Date: 12-Sep-2018 00:41:30 Instrument ID: CHW.i  
Lims ID: 200-45152-A-10 Lab Sample ID: 200-45152-10  
Client ID: 4323  
Operator ID: vtp ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) 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
5.02	41.00	586	0.068849
5.04	42.00	0	
5.04	39.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:47:42

Audit Action: Marked Compound Undetected

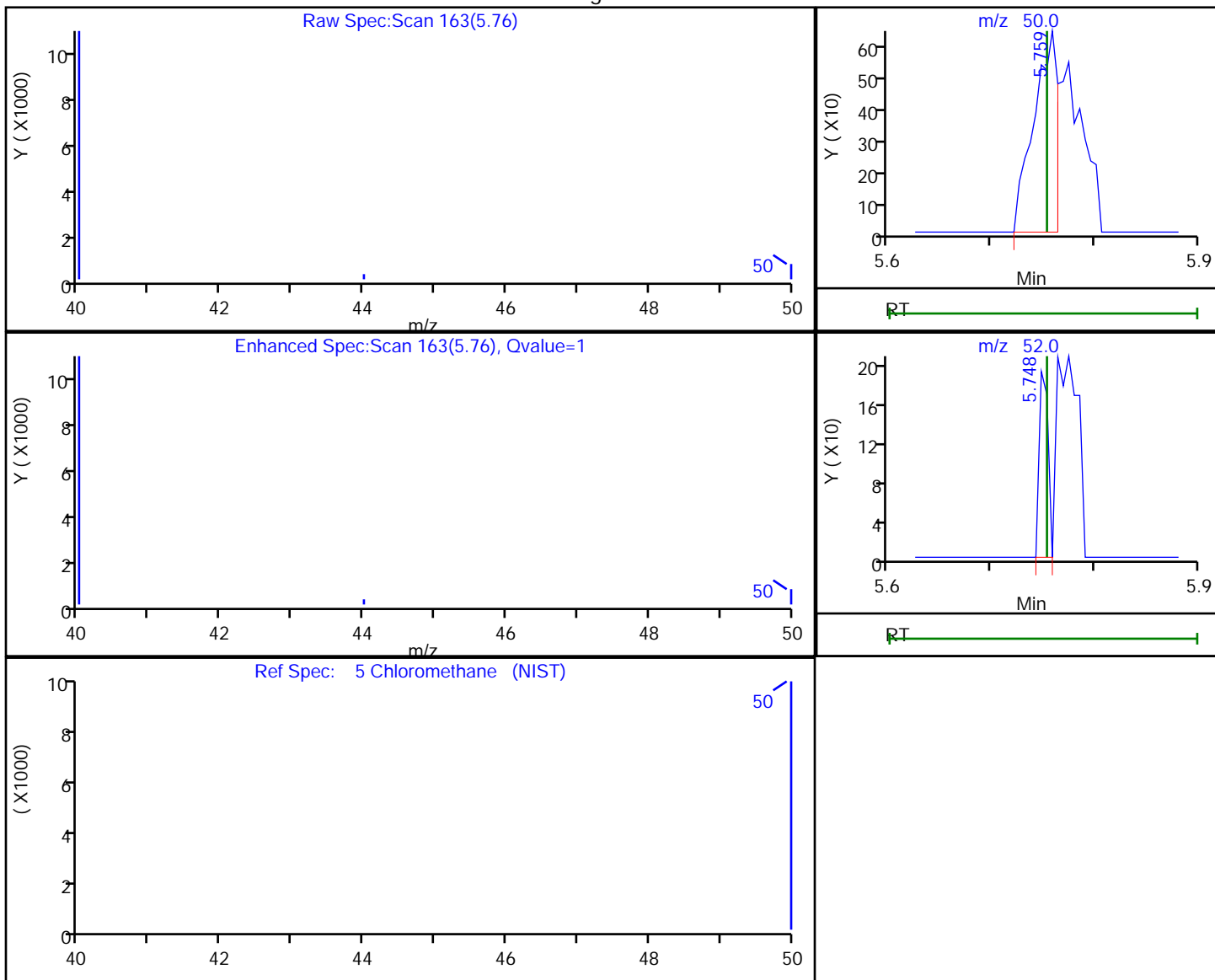
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-15.d  
Injection Date: 12-Sep-2018 00:41:30 Instrument ID: CHW.i  
Lims ID: 200-45152-A-10 Lab Sample ID: 200-45152-10  
Client ID: 4323  
Operator ID: vtp ALS Bottle#: 14 Worklist Smp#: 15  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) 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
5.76	50.00	1044	0.108459
5.75	52.00	117	

Reviewer: puangmaleek, 12-Sep-2018 13:47:46

Audit Action: Marked Compound Undetected

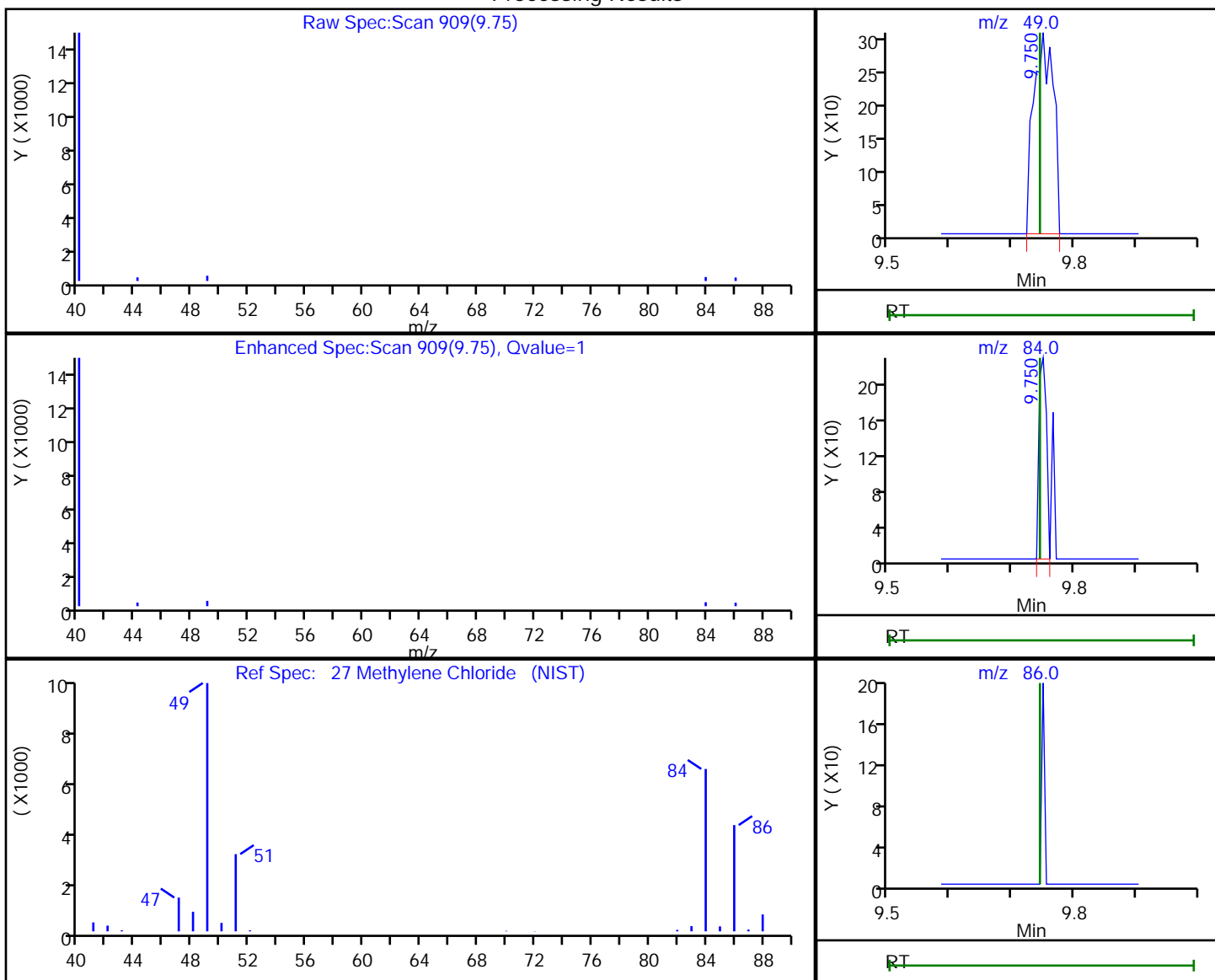
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-15.d  
 Injection Date: 12-Sep-2018 00:41:30 Instrument ID: CHW.i  
 Lims ID: 200-45152-A-10 Lab Sample ID: 200-45152-10  
 Client ID: 4323  
 Operator ID: vtp ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.75	49.00	680	0.055768
9.75	84.00	193	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:48:00

Audit Action: Marked Compound Undetected

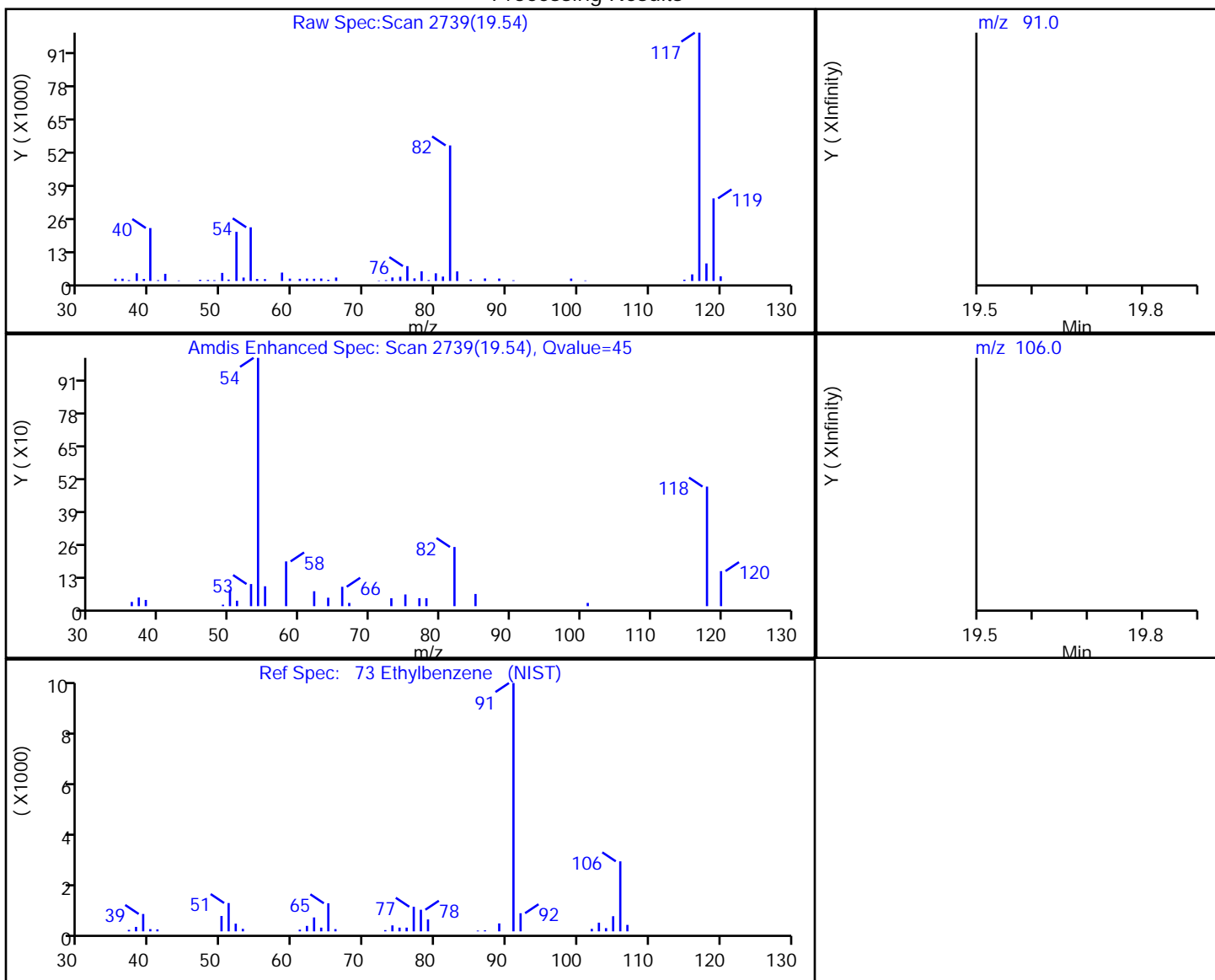
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-15.d  
 Injection Date: 12-Sep-2018 00:41:30 Instrument ID: CHW.i  
 Lims ID: 200-45152-A-10 Lab Sample ID: 200-45152-10  
 Client ID: 4323  
 Operator ID: vtp ALS Bottle#: 14 Worklist Smp#: 15  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	466	0.010870
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:48:12

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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4249 Lab Sample ID: 200-45174-12  
 Matrix: Air Lab File ID: 32143-20.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 05:18  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4249 Lab Sample ID: 200-45174-12  
 Matrix: Air Lab File ID: 32143-20.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 05:18  
 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.: 133921 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.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 4249 Lab Sample ID: 200-45174-12  
 Matrix: Air Lab File ID: 32143-20.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/12/2018 05:18  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-20.d  
 Lims ID: 200-45174-A-12  
 Client ID: 4249  
 Sample Type: Client  
 Inject. Date: 12-Sep-2018 05:18:30 ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0032143-020  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 17:03:06 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 17:03:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		5.042				ND	U
2 Dichlorodifluoromethane	85		5.154				ND	
3 Chlorodifluoromethane	51		5.235				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556				ND	
5 Chloromethane	50		5.753				ND	
6 Butane	43		6.021				ND	
7 Vinyl chloride	62		6.080				ND	
8 Butadiene	54		6.171				ND	
9 Bromomethane	94		6.963				ND	
11 Chloroethane	64		7.219				ND	
13 Vinyl bromide	106		7.626				ND	
14 Trichlorofluoromethane	101		7.717				ND	
16 Ethanol	45		8.225				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723				ND	
21 1,1-Dichloroethene	96		8.787				ND	
22 Acetone	43		8.979				ND	
23 Carbon disulfide	76		9.183				ND	
24 Isopropyl alcohol	45	9.209	9.184	0.021	96	3545	0.2330	
25 3-Chloro-1-propene	41		9.488				ND	
27 Methylene Chloride	49		9.744				ND	U
28 2-Methyl-2-propanol	59		9.867				ND	
29 Methyl tert-butyl ether	73		10.076				ND	
30 trans-1,2-Dichloroethene	61		10.140				ND	
S 31 1,2-Dichloroethene, Total	61		10.200				ND	
33 Hexane	57		10.467				ND	
34 1,1-Dichloroethane	63		10.932				ND	
35 Vinyl acetate	43		10.959				ND	
36 cis-1,2-Dichloroethene	96		11.938				ND	
37 2-Butanone (MEK)	72		11.948				ND	
38 Ethyl acetate	88		11.959				ND	
39 Tetrahydrofuran	42		12.355				ND	
* 40 Chlorobromomethane	128	12.360	12.366	-0.006	94	66091	10.0	



Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		12.457				ND	
42 Cyclohexane	84		12.719				ND	
43 1,1,1-Trichloroethane	97		12.735				ND	
44 Carbon tetrachloride	117		12.960				ND	
45 Isooctane	57		13.307				ND	
46 Benzene	78		13.371				ND	
47 1,2-Dichloroethane	62		13.521				ND	
48 n-Heptane	43		13.628				ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	328782	10.0	
51 Trichloroethene	95		14.495				ND	
53 1,2-Dichloropropane	63		14.982				ND	
55 Methyl methacrylate	69		15.067				ND	
56 1,4-Dioxane	88		15.153				ND	
57 Dibromomethane	174		15.212				ND	
58 Dichlorobromomethane	83		15.447				ND	
59 cis-1,3-Dichloropropene	75		16.271				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.501				ND	
63 Toluene	92		16.817				ND	
64 trans-1,3-Dichloropropene	75		17.341				ND	
65 1,1,2-Trichloroethane	83		17.694				ND	
66 Tetrachloroethene	166		17.812				ND	
67 2-Hexanone	43		18.085				ND	
68 Chlorodibromomethane	129		18.422				ND	
69 Ethylene Dibromide	107		18.689				ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	277770	10.0	
72 Chlorobenzene	112		19.593				ND	
73 Ethylbenzene	91		19.716				ND	U
75 m-Xylene & p-Xylene	106		19.957				ND	
S 76 Xylenes, Total	106		20.100				ND	
77 o-Xylene	106		20.727				ND	
78 Styrene	104		20.770				ND	
79 Bromoform	173		21.166				ND	
80 Isopropylbenzene	105		21.332				ND	
81 1,1,2,2-Tetrachloroethane	83		21.936				ND	
82 N-Propylbenzene	91		22.006				ND	
85 4-Ethyltoluene	105		22.182				ND	
86 2-Chlorotoluene	91		22.204				ND	
87 1,3,5-Trimethylbenzene	105		22.284				ND	
89 tert-Butylbenzene	119		22.760				ND	
90 1,2,4-Trimethylbenzene	105		22.851				ND	
91 sec-Butylbenzene	105		23.076				ND	
92 4-Isopropyltoluene	119		23.274				ND	
93 1,3-Dichlorobenzene	146		23.322				ND	
94 1,4-Dichlorobenzene	146		23.461				ND	
95 Benzyl chloride	91		23.664				ND	
96 n-Butylbenzene	91		23.873				ND	
98 1,2-Dichlorobenzene	146		24.023				ND	
100 1,2,4-Trichlorobenzene	180		26.698				ND	
101 Hexachlorobutadiene	225		26.885				ND	
102 Naphthalene	128		27.227				ND	

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d

Injection Date: 12-Sep-2018 05:18:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-45174-A-12

Lab Sample ID: 200-45174-12

Worklist Smp#: 20

Client ID: 4249

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

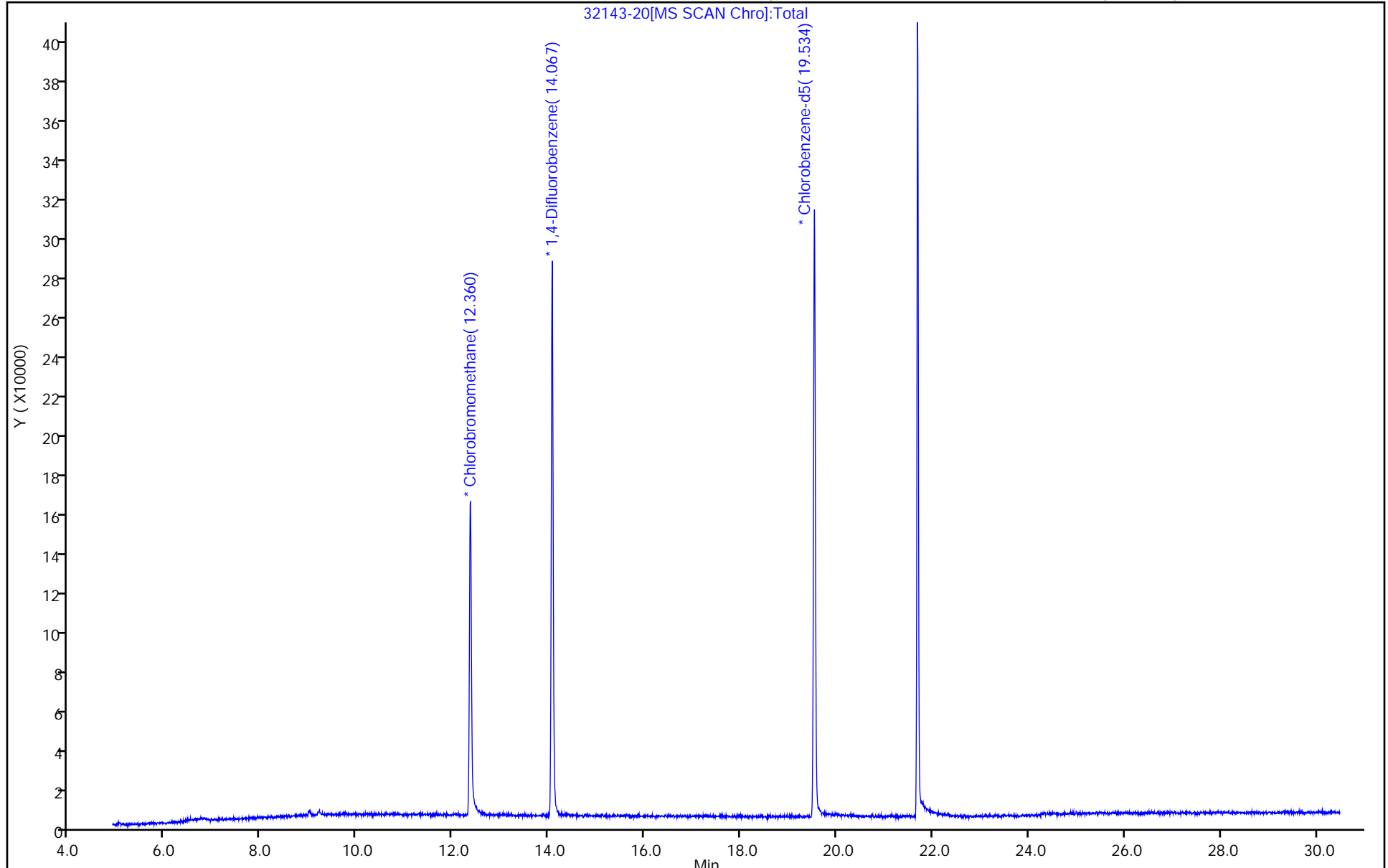
ALS Bottle#: 19

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

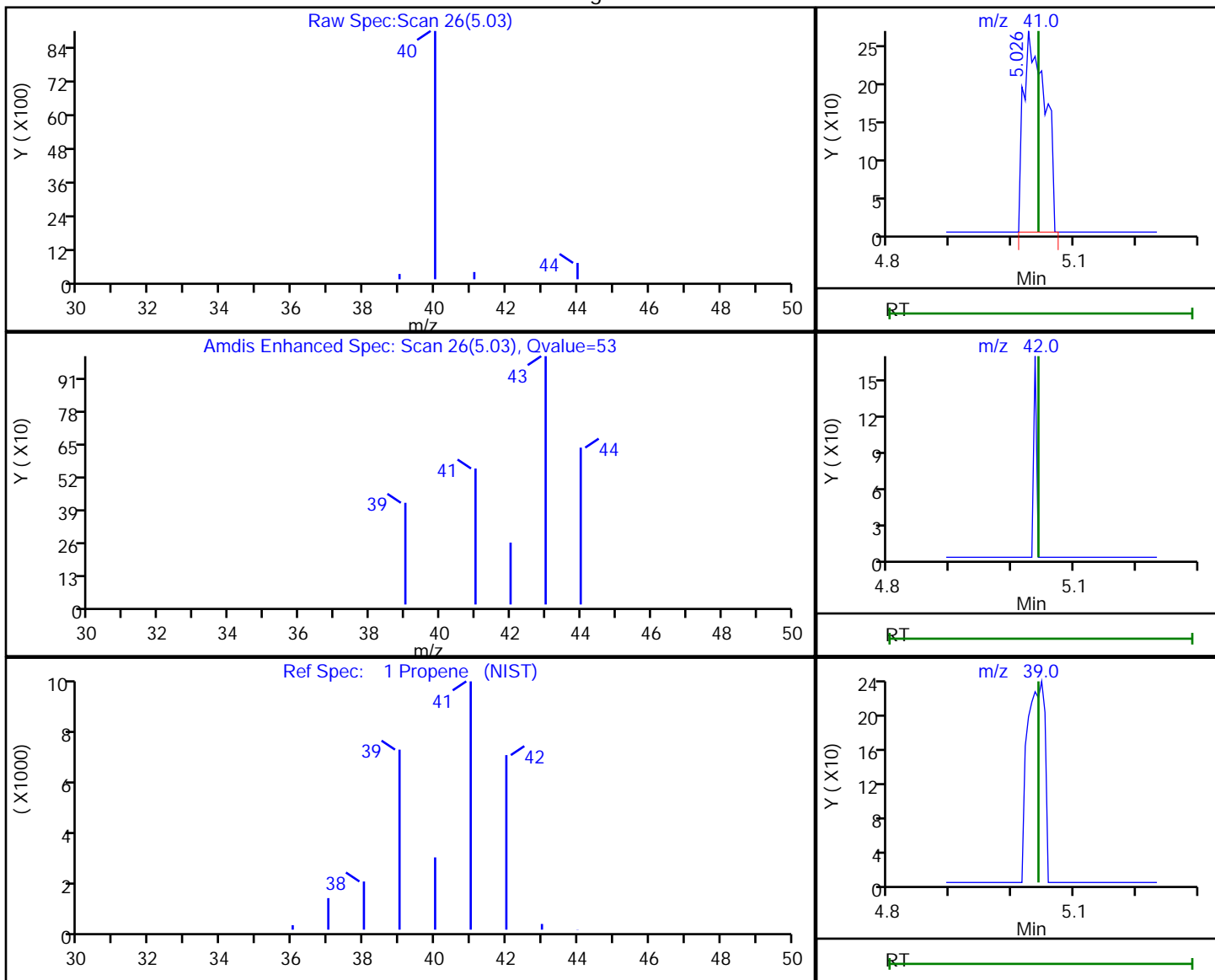


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d  
 Injection Date: 12-Sep-2018 05:18:30 Instrument ID: CHW.i  
 Lims ID: 200-45174-A-12 Lab Sample ID: 200-45174-12  
 Client ID: 4249  
 Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
5.03	41.00	631	0.078776
5.04	42.00	0	
5.04	39.00	0	

Reviewer: puangmaleek, 12-Sep-2018 17:00:23

Audit Action: Marked Compound Undetected

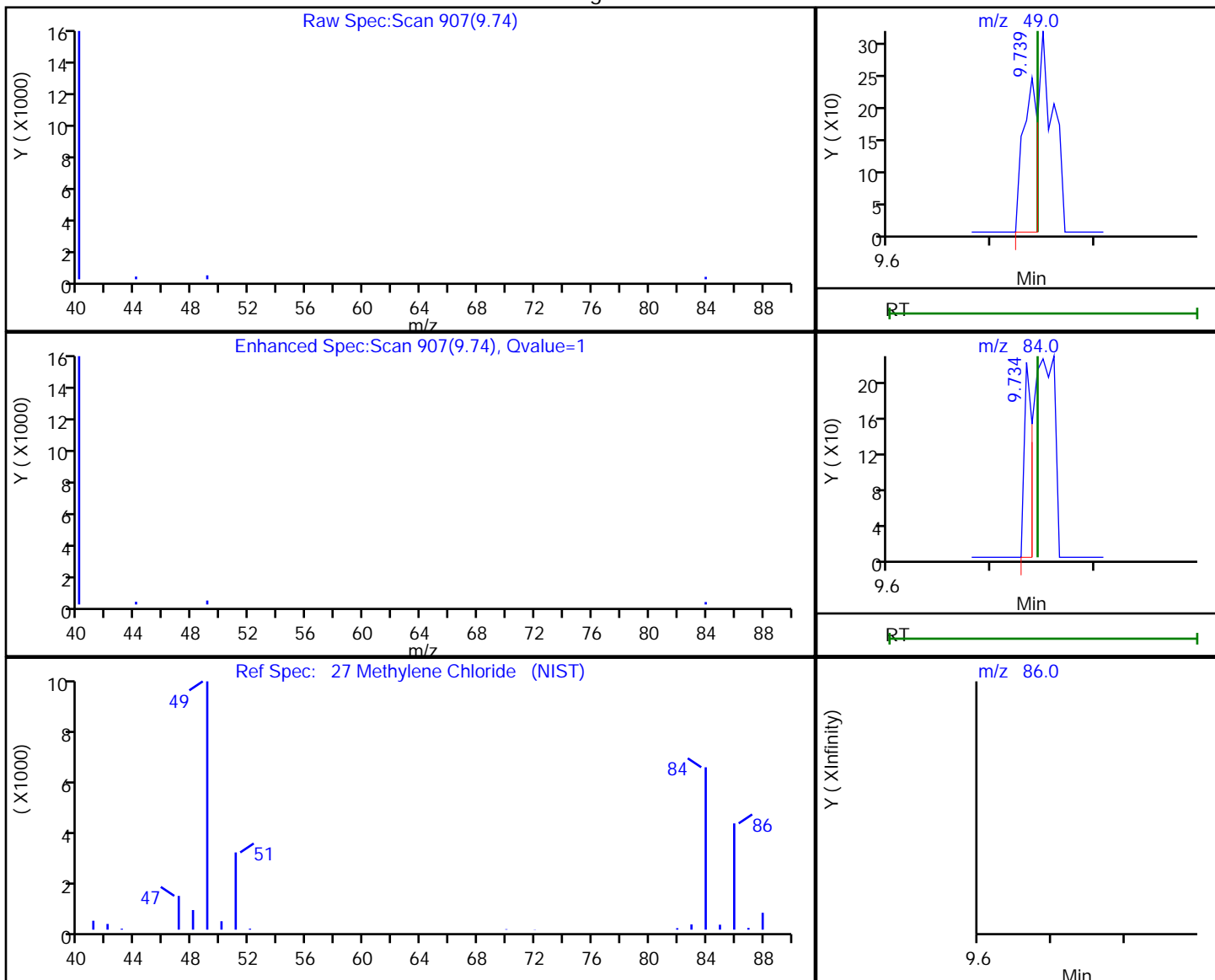
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d  
 Injection Date: 12-Sep-2018 05:18:30 Instrument ID: CHW.i  
 Lims ID: 200-45174-A-12 Lab Sample ID: 200-45174-12  
 Client ID: 4249  
 Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 20  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	239	0.020828
9.73	84.00	119	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 17:00:31

Audit Action: Marked Compound Undetected

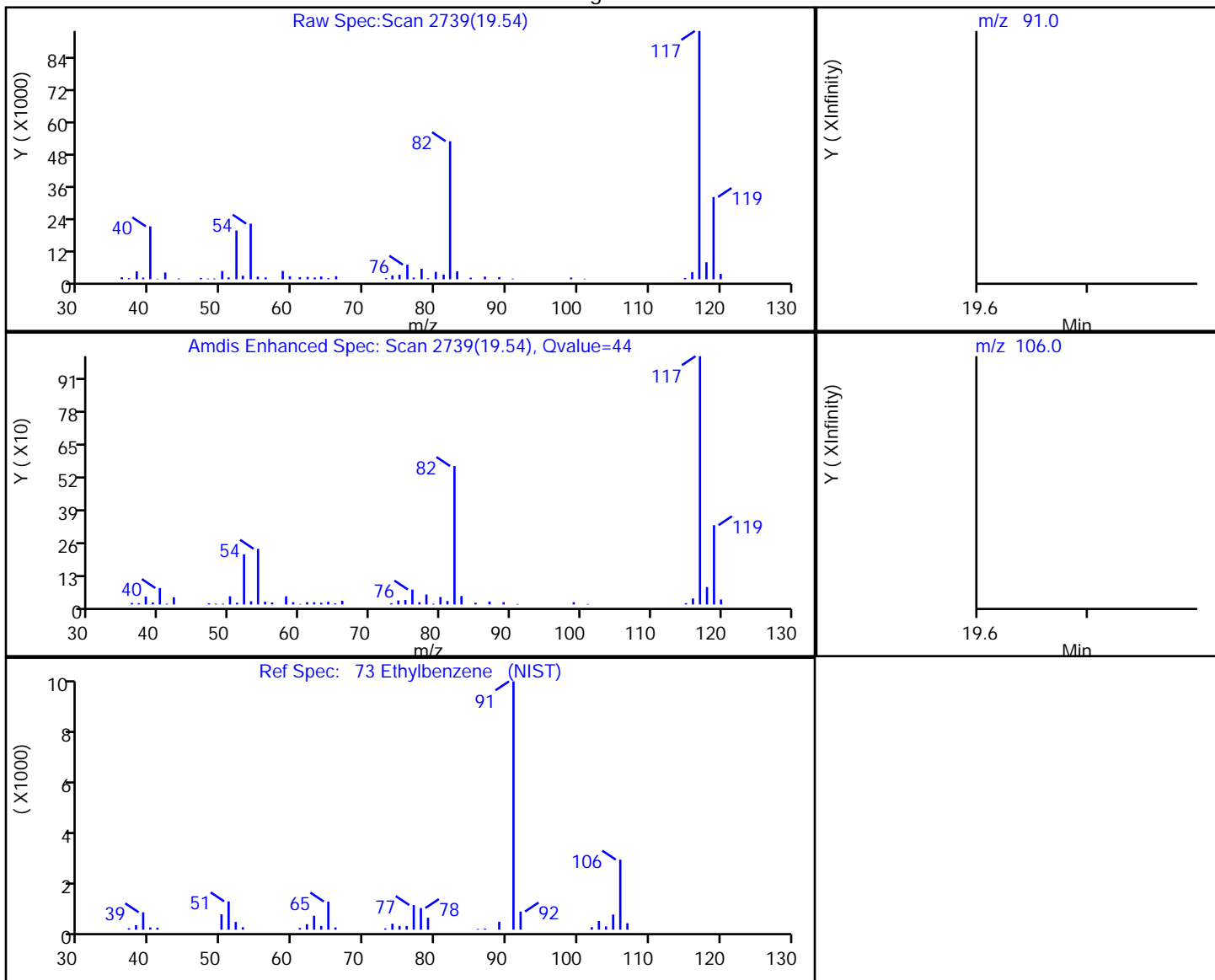
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-20.d  
Injection Date: 12-Sep-2018 05:18:30 Instrument ID: CHW.i  
Lims ID: 200-45174-A-12 Lab Sample ID: 200-45174-12  
Client ID: 4249  
Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 20  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.54	91.00	278	0.006834
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 17:02:56

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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5065 Lab Sample ID: 200-45175-12  
 Matrix: Air Lab File ID: 32143-14.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/11/2018 23:30  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5065 Lab Sample ID: 200-45175-12  
 Matrix: Air Lab File ID: 32143-14.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/11/2018 23:30  
 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.: 133921 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.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: 5065 Lab Sample ID: 200-45175-12  
 Matrix: Air Lab File ID: 32143-14.d  
 Analysis Method: TO-15 Date Collected: 09/10/2018 00:00  
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/11/2018 23:30  
 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.: 133921 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\CHW.i\20180911-32143.b\32143-14.d  
 Lims ID: 200-45175-A-12  
 Client ID: 5065  
 Sample Type: Client  
 Inject. Date: 11-Sep-2018 23:30:30 ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Sample Info: 200-0032143-014  
 Operator ID: vtp Instrument ID: CHW.i  
 Method: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\TO15\_MasterMethod\_(v1).m  
 Limit Group: AI\_TO15\_ICAL  
 Last Update: 12-Sep-2018 13:47:29 Calib Date: 16-Aug-2018 01:00:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Burlington\ChromData\CHW.i\20180815-31797.b\31797-11.d  
 Column 1 : RTX-624 ( 0.32 mm) Det: MS SCAN  
 Process Host: XAWRK017

First Level Reviewer: puangmaleek Date: 12-Sep-2018 13:47:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		5.042				ND	
2 Dichlorodifluoromethane	85		5.154				ND	
3 Chlorodifluoromethane	51		5.235				ND	U
4 1,2-Dichloro-1,1,2,2-tetra	85		5.556				ND	
5 Chloromethane	50		5.753				ND	
6 Butane	43		6.021				ND	
7 Vinyl chloride	62		6.080				ND	
8 Butadiene	54		6.171				ND	
9 Bromomethane	94		6.963				ND	
11 Chloroethane	64		7.219				ND	
13 Vinyl bromide	106		7.626				ND	
14 Trichlorofluoromethane	101		7.717				ND	
16 Ethanol	45		8.225				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		8.723				ND	
21 1,1-Dichloroethene	96		8.787				ND	
22 Acetone	43		8.979				ND	
23 Carbon disulfide	76		9.183				ND	U
24 Isopropyl alcohol	45	9.209	9.188	0.021	95	3711	0.2275	
25 3-Chloro-1-propene	41		9.488				ND	
27 Methylene Chloride	49		9.744				ND	U
28 2-Methyl-2-propanol	59		9.867				ND	
29 Methyl tert-butyl ether	73		10.076				ND	
30 trans-1,2-Dichloroethene	61		10.140				ND	
S 31 1,2-Dichloroethene, Total	61		10.200				ND	
33 Hexane	57		10.467				ND	
34 1,1-Dichloroethane	63		10.932				ND	
35 Vinyl acetate	43		10.959				ND	
36 cis-1,2-Dichloroethene	96		11.938				ND	
37 2-Butanone (MEK)	72		11.948				ND	
38 Ethyl acetate	88		11.959				ND	
39 Tetrahydrofuran	42		12.355				ND	
* 40 Chlorobromomethane	128	12.366	12.366	0.000	94	70854	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Chloroform	83		12.457				ND	
42 Cyclohexane	84		12.719				ND	
43 1,1,1-Trichloroethane	97		12.735				ND	
44 Carbon tetrachloride	117		12.960				ND	
45 Isooctane	57		13.307				ND	
46 Benzene	78		13.371				ND	
47 1,2-Dichloroethane	62		13.521				ND	
48 n-Heptane	43		13.628				ND	
* 49 1,4-Difluorobenzene	114	14.067	14.067	0.000	95	352060	10.0	
51 Trichloroethene	95		14.495				ND	
53 1,2-Dichloropropane	63		14.982				ND	
55 Methyl methacrylate	69		15.067				ND	
56 1,4-Dioxane	88		15.153				ND	
57 Dibromomethane	174		15.212				ND	
58 Dichlorobromomethane	83		15.447				ND	
59 cis-1,3-Dichloropropene	75		16.271				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.501				ND	
63 Toluene	92		16.817				ND	
64 trans-1,3-Dichloropropene	75		17.341				ND	
65 1,1,2-Trichloroethane	83		17.694				ND	
66 Tetrachloroethene	166		17.812				ND	
67 2-Hexanone	43		18.085				ND	
68 Chlorodibromomethane	129		18.422				ND	
69 Ethylene Dibromide	107		18.689				ND	
* 71 Chlorobenzene-d5	117	19.534	19.529	0.005	87	298968	10.0	
72 Chlorobenzene	112		19.593				ND	
73 Ethylbenzene	91		19.716				ND	U
75 m-Xylene & p-Xylene	106		19.957				ND	
S 76 Xylenes, Total	106		20.100				ND	
77 o-Xylene	106		20.727				ND	
78 Styrene	104		20.770				ND	
79 Bromoform	173		21.166				ND	
80 Isopropylbenzene	105		21.332				ND	
81 1,1,2,2-Tetrachloroethane	83		21.936				ND	
82 N-Propylbenzene	91		22.006				ND	
85 4-Ethyltoluene	105		22.182				ND	
86 2-Chlorotoluene	91		22.204				ND	
87 1,3,5-Trimethylbenzene	105		22.284				ND	
89 tert-Butylbenzene	119		22.760				ND	
90 1,2,4-Trimethylbenzene	105		22.851				ND	
91 sec-Butylbenzene	105		23.076				ND	
92 4-Isopropyltoluene	119		23.274				ND	
93 1,3-Dichlorobenzene	146		23.322				ND	
94 1,4-Dichlorobenzene	146		23.461				ND	
95 Benzyl chloride	91		23.664				ND	
96 n-Butylbenzene	91		23.873				ND	
98 1,2-Dichlorobenzene	146		24.023				ND	
100 1,2,4-Trichlorobenzene	180		26.698				ND	
101 Hexachlorobutadiene	225		26.885				ND	
102 Naphthalene	128		27.227				ND	

**QC Flag Legend**

Review Flags

U - Marked Undetected

**Reagents:**

ATTO15WISs\_00004

Amount Added: 20.00

Units: mL

Run Reagent

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d

Injection Date: 11-Sep-2018 23:30:30

Instrument ID: CHW.i

Operator ID: vtp

Lims ID: 200-45175-A-12

Lab Sample ID: 200-45175-12

Worklist Smp#: 14

Client ID: 5065

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

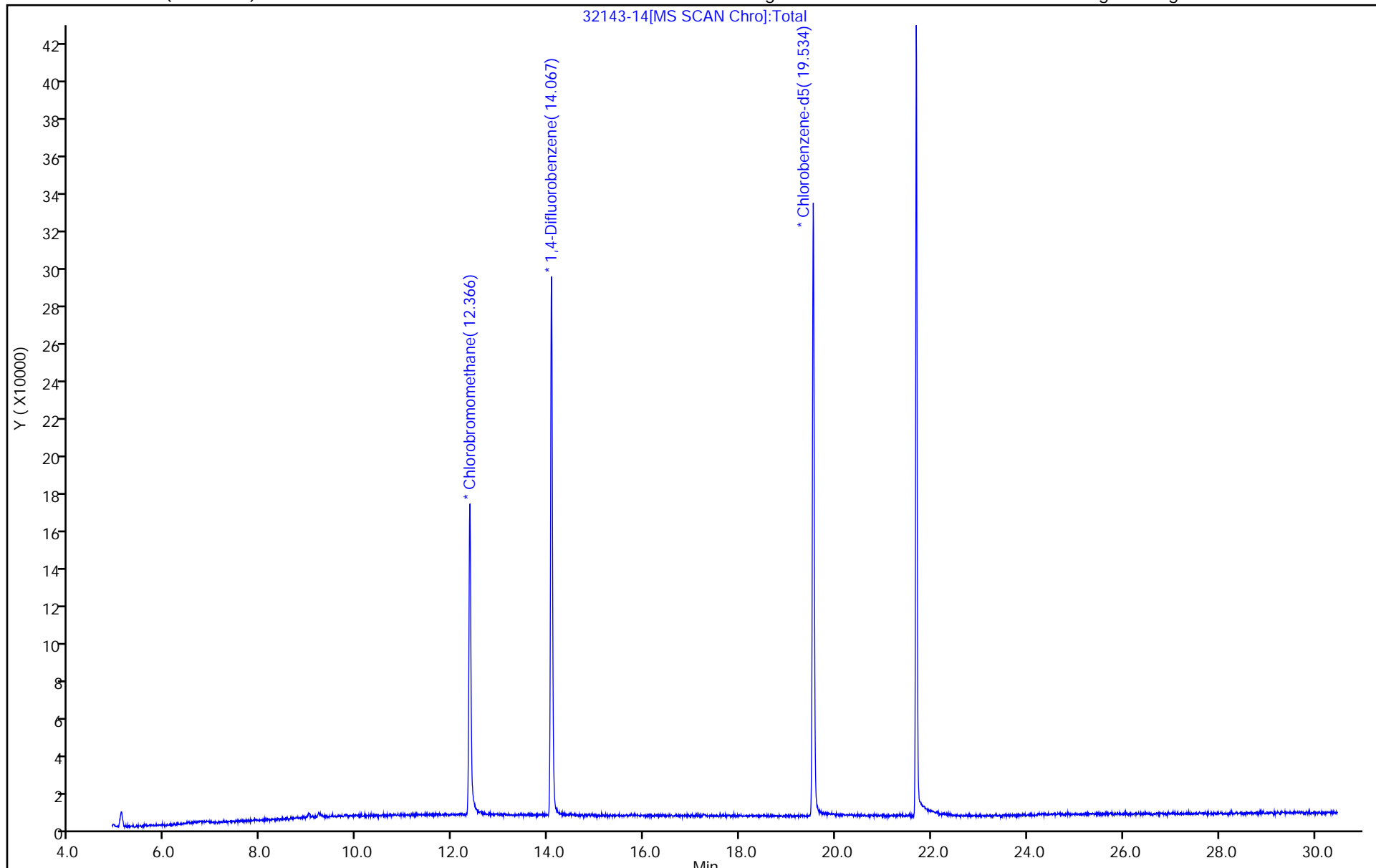
ALS Bottle#: 13

Method: TO15\_MasterMethod\_(v1)

Limit Group: AI\_TO15\_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

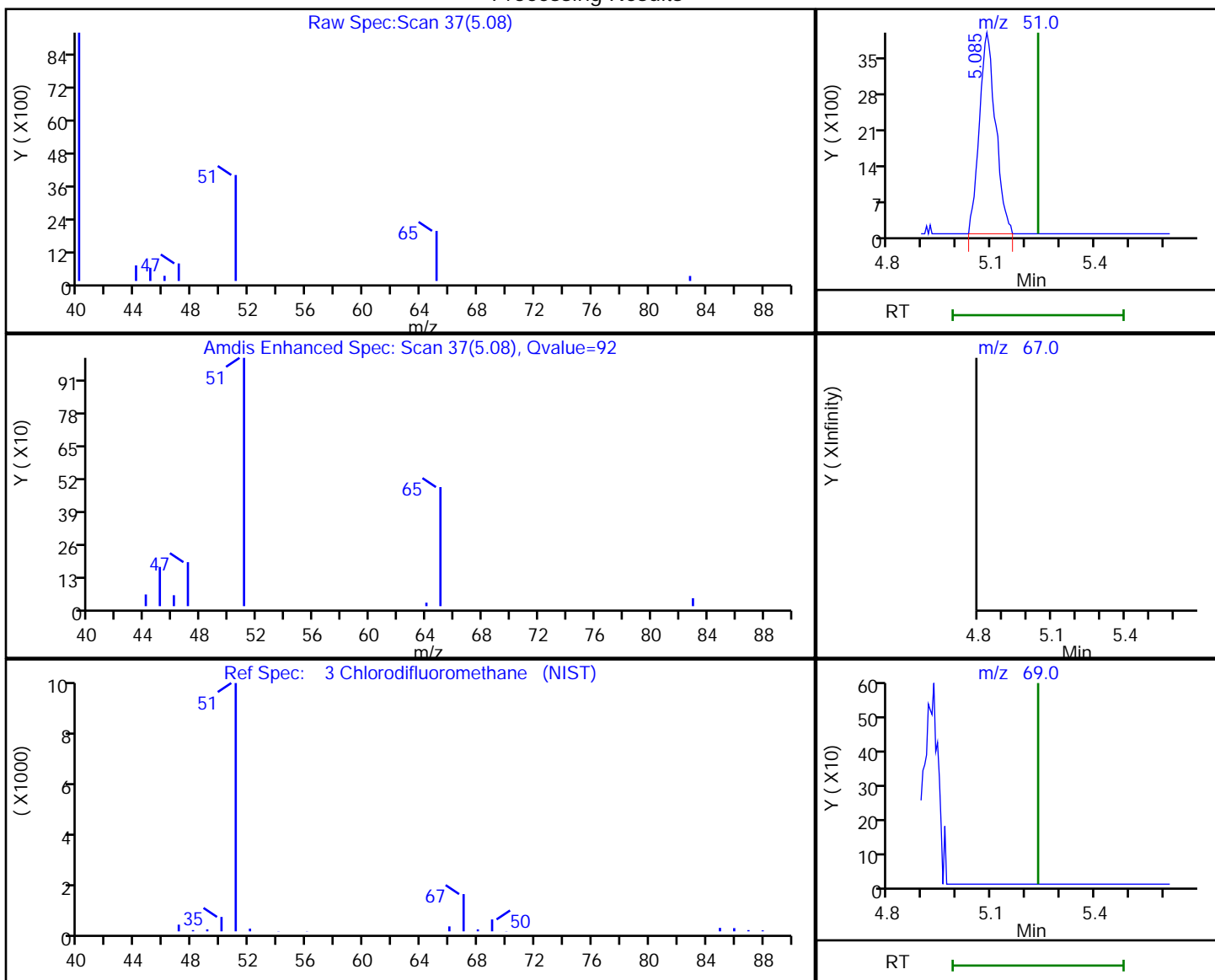


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
Client ID: 5065  
Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) 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
5.08	51.00	12876	0.822210
5.23	67.00	0	
5.23	69.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:46:58

Audit Action: Marked Compound Undetected

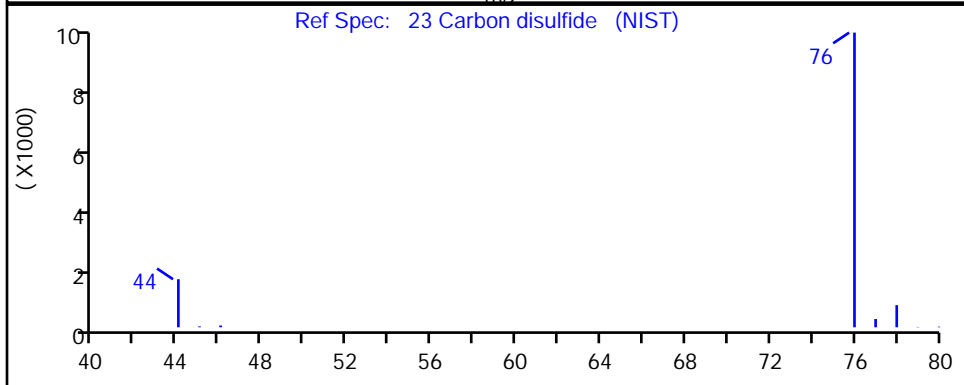
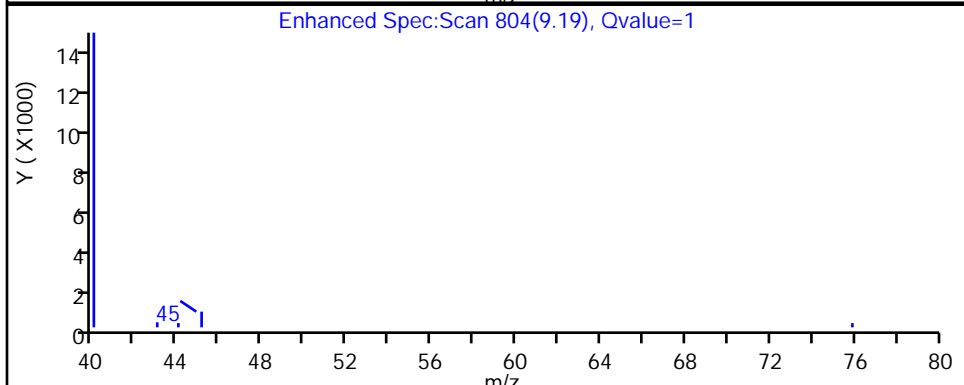
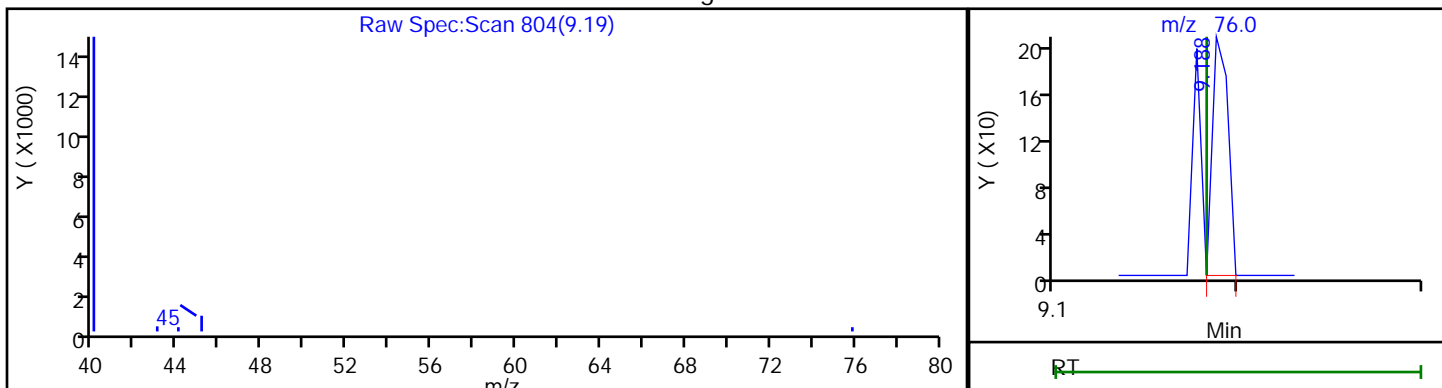
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
 Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
 Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
 Client ID: 5065  
 Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.19	76.00	118	0.004151

Reviewer: puangmaleek, 12-Sep-2018 13:47:04

Audit Action: Marked Compound Undetected

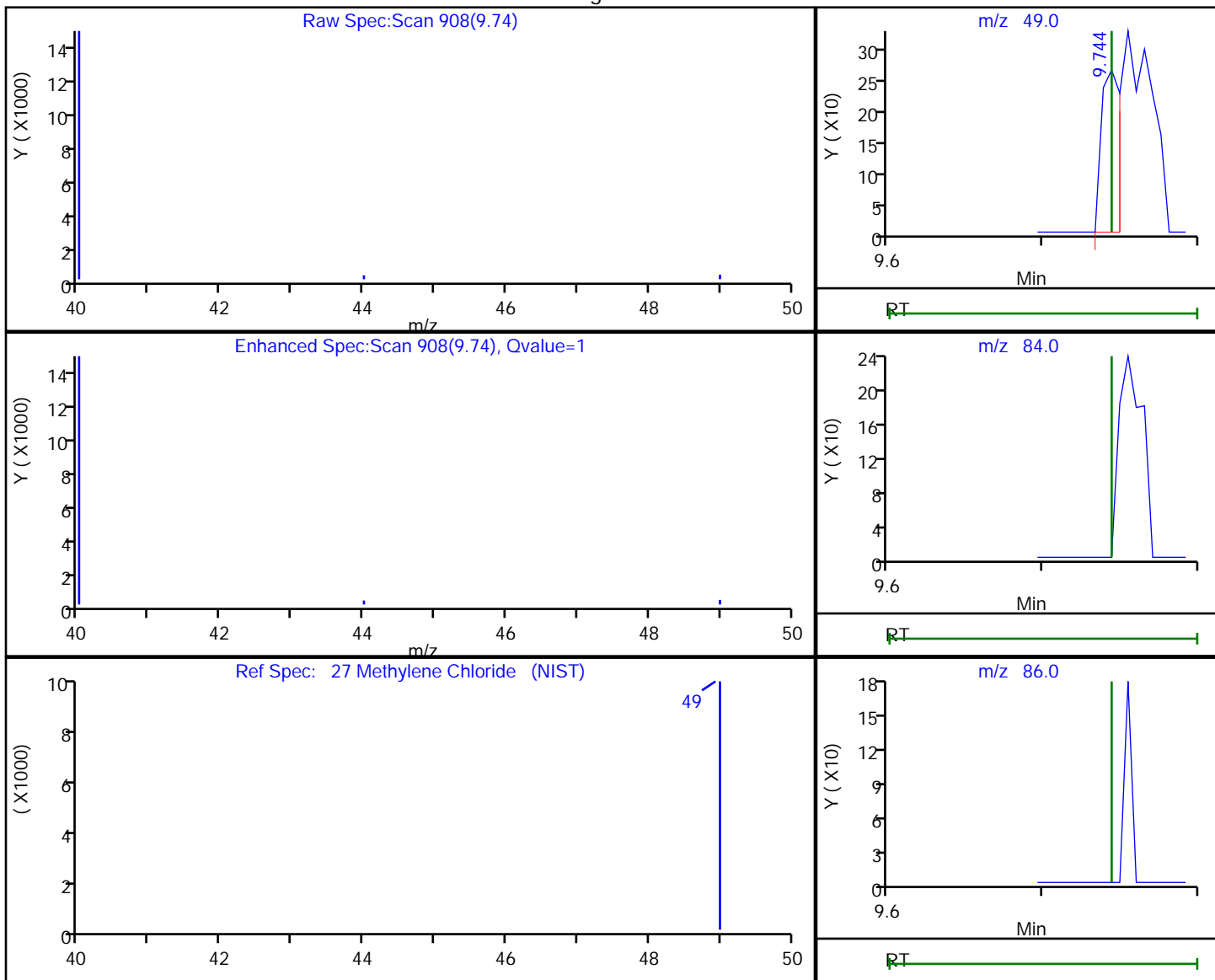
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
 Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
 Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
 Client ID: 5065  
 Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
 Purge Vol: 200.000 mL Dil. Factor: 0.2000  
 Method: TO15\_MasterMethod\_(v1) 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
9.74	49.00	235	0.019103
9.74	84.00	0	
9.74	86.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:47:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

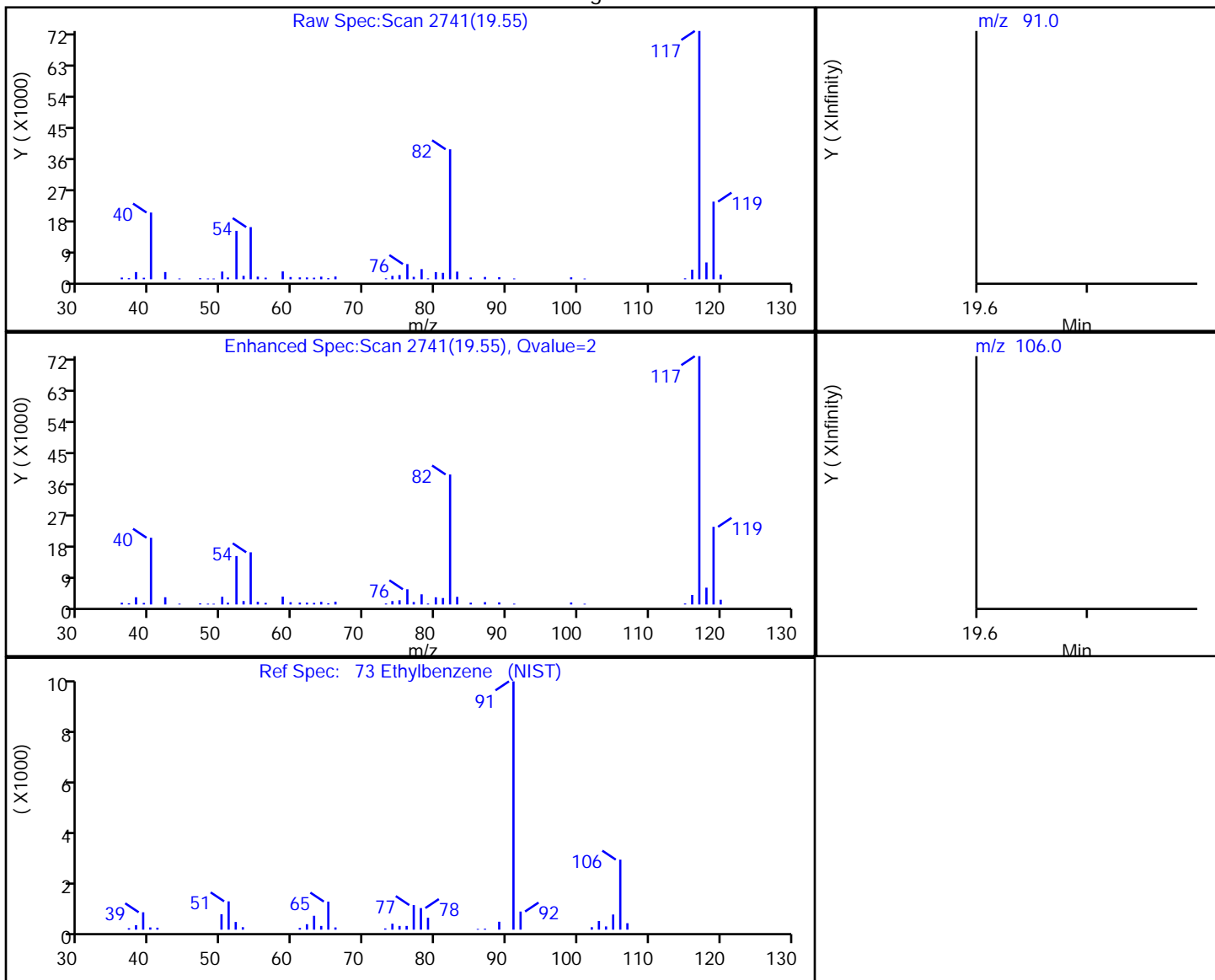


TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHW.i\20180911-32143.b\32143-14.d  
Injection Date: 11-Sep-2018 23:30:30 Instrument ID: CHW.i  
Lims ID: 200-45175-A-12 Lab Sample ID: 200-45175-12  
Client ID: 5065  
Operator ID: vtp ALS Bottle#: 13 Worklist Smp#: 14  
Purge Vol: 200.000 mL Dil. Factor: 0.2000  
Method: TO15\_MasterMethod\_(v1) Limit Group: AI\_TO15\_ICAL  
Column: RTX-624 (0.32 mm) Detector: MS SCAN

73 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
19.55	91.00	125	0.002855
19.72	106.00	0	

Reviewer: puangmaleek, 12-Sep-2018 13:47:21

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.: 200-44895-1 Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132849/3	31773-03.D
Level 2	IC 200-132849/4	31773-04.D
Level 3	IC 200-132849/5	31773-05.D
Level 4	IC 200-132849/6	31773-06.D
Level 5	ICIS 200-132849/7	31773-07.D
Level 6	IC 200-132849/8	31773-08.D
Level 7	IC 200-132849/9	31773-09.D
Level 8	IC 200-132849/10	31773-10.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	++++ 0.2760	++++ 0.2923	++++ 0.2801	0.2955	0.3034	Ave		0.2895			3.9		30.0				
Dichlorodifluoromethane	++++ 1.3535	++++ 1.4225	1.4031 1.3614	1.4077	1.4497	Ave		1.3997			2.6		30.0				
Freon 22	++++ 0.5814	++++ 0.6123	0.6035 0.5870	0.6167	0.6339	Ave		0.6058			3.2		30.0				
1,2-Dichlorotetrafluoroethane	++++ 1.5898	1.6160 1.6536	1.6233 1.5809	1.6445	1.6986	Ave		1.6295			2.5		30.0				
Chloromethane	++++ 0.3879	++++ 0.4083	0.4247 0.3924	0.4031	0.4196	Ave		0.4060			3.6		30.0				
n-Butane	++++ 0.5992	0.7661 0.6395	0.7560 0.6040	0.6355	0.6503	Ave		0.6644			10.3		30.0				
Vinyl chloride	0.4359 0.5629	0.4972 0.5941	0.5800 0.5721	0.5804	0.6055	Ave		0.5535			10.4		30.0				
1,3-Butadiene	++++ 0.3781	0.3776 0.3976	0.3792 0.3841	0.3890	0.4086	Ave		0.3878			3.0		30.0				
Bromomethane	++++ 0.7629	0.7598 0.8022	0.7718 0.7848	0.7748	0.8154	Ave		0.7817			2.6		30.0				
Chloroethane	++++ 0.3498	++++ 0.3696	0.3452 0.3563	0.3574	0.3731	Ave		0.3586			3.0		30.0				
Isopentane	++++ 0.5722	0.6030 0.6108	0.6102 0.5831	0.6020	0.6248	Ave		0.6009			3.0		30.0				
Bromoethene (Vinyl Bromide)	++++ 0.8344	0.7912 0.8761	0.8338 0.8585	0.8362	0.8838	Ave		0.8449			3.7		30.0				
Trichlorofluoromethane	++++ 1.6239	1.6527 1.7036	1.6534 1.6544	1.6622	1.7305	Ave		1.6687			2.2		30.0				
n-Pentane	++++ 0.8993	++++ 0.9532	1.1734 0.9093	0.9438	0.9797	Ave		0.9764			10.3		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.: 200-44895-1 Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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														
Ethanol	++++ 0.2601	++++ 0.2634	0.3346 0.2285	0.2920	0.2955	Ave		0.2790			13.1		30.0				
Ethyl ether	++++ 0.4367	++++ 0.4633	0.3986 0.4479	0.4476	0.4702	Ave		0.4430			5.3		30.0				
Acrolein	++++ 0.2357	++++ 0.2473	++++ 0.2253	0.2404	0.2476	Ave		0.2393			3.9		30.0				
Freon TF	++++ 1.8107	++++ 1.8933	1.7420 1.8516	1.8427	1.9138	Ave		1.8421			3.0		30.0				
1,1-Dichloroethene	0.6642 0.8812	0.8540 0.9293	0.8938 0.9127	0.8919	0.9323	Ave		0.8699			10.0		30.0				
Acetone	++++ 0.6789	++++ 0.7242	++++ 0.6988	0.7569	0.7563	Ave		0.7230			4.8		30.0				
Isopropyl alcohol	++++ 0.8174	++++ 0.8671	++++ 0.8224	0.8748	0.9652	Ave		0.8694			6.8		30.0				
Carbon disulfide	++++ 2.1958	++++ 2.3248	++++ 2.2680	2.2499	2.3577	Ave		2.2671			2.8		30.0				
3-Chloropropene	++++ 0.6611	0.6513 0.6791	0.6322 0.6297	0.5772	0.4350	Ave		0.6094			13.7		30.0				
Acetonitrile	++++ 0.3728	++++ 0.3784	0.3883 0.3735	0.3697	0.4503	Ave		0.3904			7.3		30.0				
Methylene Chloride	++++ 0.6095	++++ 0.6491	0.6858 0.6210	0.6430	0.6602	Ave		0.6448			4.2		30.0				
tert-Butyl alcohol	++++ 1.2547	++++ 1.3176	++++ 1.2664	1.3133	1.4031	Ave		1.3110			4.5		30.0				
Methyl tert-butyl ether	++++ 2.0176	1.9817 2.1293	1.9965 2.0690	2.0450	2.1449	Ave		2.0549			3.1		30.0				
trans-1,2-Dichloroethene	++++ 0.9142	0.9001 0.9681	0.9191 0.9359	0.9384	0.9885	Ave		0.9378			3.3		30.0				
Acrylonitrile	++++ 0.4373	++++ 0.4661	0.4144 0.4535	0.4466	0.4727	Ave		0.4484			4.7		30.0				
n-Hexane	++++ 1.0379	1.6559 1.0948	1.3483 1.0524	1.0912	1.1245	Ave		1.2007			18.8		30.0				
1,1-Dichloroethane	0.9574 1.1710	1.1129 1.2372	1.1792 1.1919	1.2092	1.2668	Ave		1.1657			8.2		30.0				
Vinyl acetate	++++ 1.3123	++++ 1.3967	++++ 1.3296	1.3607	1.4428	Ave		1.3684			3.8		30.0				
Methyl Ethyl Ketone	++++ 0.4005	++++ 0.4281	0.4378 0.4076	0.4055	0.4314	Ave		0.4185			3.8		30.0				
cis-1,2-Dichloroethene	0.9168 0.9580	0.9404 1.0076	0.9503 0.9863	0.9717	1.0147	Ave		0.9682			3.5		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.: 200-44895-1 Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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	++++ 0.0828	++++ 0.0872	++++ 0.0855	0.0840	0.0862	Ave		0.0851			2.0		30.0				
Tetrahydrofuran	++++ 0.1208	++++ 0.1290	++++ 0.1244	0.1256	0.1327	Ave		0.1265			3.6		30.0				
Chloroform	++++ 1.4963	1.4794 1.5822	1.5275 1.5330	1.5262	1.6008	Ave		1.5351			2.8		30.0				
1,1,1-Trichloroethane	++++ 0.3249	0.3132 0.3449	0.3265 0.3362	0.3316	0.3478	Ave		0.3322			3.6		30.0				
Cyclohexane	++++ 0.2512	0.2382 0.2671	0.2477 0.2608	0.2566	0.2690	Ave		0.2558			4.3		30.0				
Carbon tetrachloride	0.2687 0.3554	0.3100 0.3779	0.3330 0.3622	0.3580	0.3803	Ave		0.3432			11.1		30.0				
2,2,4-Trimethylpentane	++++ 0.6950	0.6916 0.7420	0.7543 0.7144	0.7220	0.7533	Ave		0.7247			3.6		30.0				
Benzene	++++ 0.5388	0.6147 0.5744	0.5833 0.5608	0.5527	0.5769	Ave		0.5716			4.3		30.0				
1,2-Dichloroethane	++++ 0.1495	0.1428 0.1594	0.1542 0.1547	0.1550	0.1608	Ave		0.1538			4.0		30.0				
n-Heptane	++++ 0.2079	0.2183 0.2238	0.2317 0.2123	0.2206	0.2289	Ave		0.2205			3.9		30.0				
n-Butanol	++++ 0.0955	++++ 0.1038	++++ 0.1006	0.1018	0.1118	Ave		0.1027			5.8		30.0				
Trichloroethene	0.2506 0.2482	0.2331 0.2648	0.2481 0.2596	0.2534	0.2641	Ave		0.2527			4.1		30.0				
1,2-Dichloropropane	++++ 0.1726	0.1672 0.1846	0.1760 0.1784	0.1795	0.1868	Ave		0.1779			3.8		30.0				
Methyl methacrylate	++++ 0.1787	++++ 0.1921	++++ 0.1872	0.1812	0.1905	Ave		0.1834			4.4		30.0				
1,4-Dioxane	++++ 0.1204	++++ 0.1261	++++ 0.1213	0.1297	0.1431	Ave		0.1281			7.2		30.0				
Dibromomethane	++++ 0.3158	0.3272 0.3372	0.3174 0.3411	0.3153	0.3364	Ave		0.3272			3.4		30.0				
Bromodichloromethane	++++ 0.3400	0.3178 0.3615	0.3318 0.3503	0.3443	0.3603	Ave		0.3437			4.5		30.0				
cis-1,3-Dichloropropene	++++ 0.3009	0.2654 0.3222	0.2937 0.3150	0.3048	0.3196	Ave		0.3031			6.5		30.0				
methyl isobutyl ketone	++++ 0.2604	++++ 0.2804	0.2518 0.2679	0.2713	0.2834	Ave		0.2692			4.4		30.0				
n-Octane	++++ 0.2850	0.2903 0.3005	0.3083 0.2720	0.3058	0.3143	Ave		0.2966			5.0		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.: 200-44895-1

Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07

Calibration End Date: 08/14/2018 00:20

Calibration ID: 39905

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														
Toluene	++++ 0.4932	0.5396 0.5206	0.5148 0.5068	0.5027	0.5214	Ave		0.5142			2.9		30.0				
trans-1,3-Dichloropropene	++++ 0.2611	0.2316 0.2794	0.2408 0.2733	0.2621	0.2720	Ave		0.2601			6.8		30.0				
1,1,2-Trichloroethane	++++ 0.2201	0.2130 0.2349	0.2237 0.2300	0.2253	0.2342	Ave		0.2259			3.5		30.0				
Tetrachloroethene	0.5377 0.5358	0.5091 0.5623	0.5221 0.5676	0.5222	0.5478	Ave		0.5381			3.8		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2858	++++ 0.3031	0.3032 0.2948	0.2959	0.3009	Ave		0.2973			2.2		30.0				
Dibromochloromethane	++++ 0.5512	0.4759 0.5814	0.5044 0.5617	0.5404	0.5581	Ave		0.5390			6.8		30.0				
1,2-Dibromoethane	++++ 0.4642	0.4413 0.4924	0.4527 0.4900	0.4628	0.4843	Ave		0.4697			4.2		30.0				
Chlorobenzene	++++ 0.7388	0.7348 0.7750	0.7517 0.7677	0.7395	0.7664	Ave		0.7534			2.2		30.0				
Ethylbenzene	++++ 1.0445	1.1312 1.0957	1.0985 1.0627	1.0607	1.0971	Ave		1.0843			2.7		30.0				
n-Nonane	++++ 0.3877	0.3849 0.4059	0.4150 0.3790	0.4076	0.4174	Ave		0.3996			3.9		30.0				
m,p-Xylene	++++ 0.4605	0.4399 0.4808	0.4540 0.4647	0.4616	0.4791	Ave		0.4629			3.1		30.0				
Xylene, o-	++++ 0.4454	0.4567 0.4660	0.4530 0.4592	0.4483	0.4644	Ave		0.4562			1.7		30.0				
Styrene	++++ 0.7339	0.6856 0.7740	0.7003 0.7616	0.7330	0.7587	Ave		0.7353			4.5		30.0				
Bromoform	++++ 0.6347	0.4860 0.6625	0.5018 0.6049	0.5899	0.5893	Ave		0.5813			11.2		30.0				
Cumene	++++ 1.2645	1.2191 1.3234	1.2607 1.2661	1.2715	1.3263	Ave		1.2759			2.9		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.5834	0.5859 0.6094	0.5930 0.5781	0.5981	0.6260	Ave		0.5963			2.8		30.0				
n-Propylbenzene	++++ 1.3793	1.3479 1.4159	1.4162 1.3129	1.4146	1.4658	Ave		1.3932			3.6		30.0				
1,2,3-Trichloropropane	++++ 0.4087	++++ 0.4243	0.4392 0.3874	0.4252	0.4395	Ave		0.4207			4.7		30.0				
n-Decane	++++ 0.4746	0.4793 0.5016	0.5334 0.4804	0.5238	0.5240	Ave		0.5025			4.9		30.0				
4-Ethyltoluene	++++ 1.2398	1.2096 1.2814	1.2581 1.2444	1.2821	1.3289	Ave		1.2635			3.0		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.: 200-44895-1 Analy Batch No.: 132849  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

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													
2-Chlorotoluene	++++ 0.9254	0.9215 0.9702	0.9495 0.9230	0.9362	0.9936	Ave		0.9456			2.9		30.0				
1,3,5-Trimethylbenzene	++++ 0.9818	1.0040 1.0380	1.0309 1.0490	1.0414	1.0756	Ave		1.0315			3.0		30.0				
Alpha Methyl Styrene	++++ 0.5902	0.5561 0.6211	0.5756 0.6338	0.6135	0.6278	Ave		0.6026			4.8		30.0				
tert-Butylbenzene	++++ 1.0149	1.0227 1.0618	1.0617 1.0682	1.0703	1.1025	Ave		1.0575			2.8		30.0				
1,2,4-Trimethylbenzene	++++ 0.9750	0.9764 1.0337	1.0229 1.0504	1.0400	1.0643	Ave		1.0232			3.4		30.0				
sec-Butylbenzene	++++ 1.4764	1.5829 1.5691	1.5870 1.5665	1.5862	1.6038	Ave		1.5674			2.7		30.0				
4-Isopropyltoluene	++++ 1.3270	1.3730 1.4211	1.3966 1.4246	1.3988	1.3780	Ave		1.3884			2.4		30.0				
1,3-Dichlorobenzene	++++ 0.8217	0.8369 0.8736	0.8604 0.9025	0.8591	0.8857	Ave		0.8628			3.2		30.0				
1,4-Dichlorobenzene	++++ 0.8123	0.8507 0.8747	0.8473 0.9105	0.8590	0.8763	Ave		0.8615			3.5		30.0				
Benzyl chloride	++++ 0.8025	0.7073 0.9146	0.7349 0.9253	0.8190	0.8512	Ave		0.8221			10.1		30.0				
n-Undecane	++++ 0.5443	++++ 0.5721	++++ 0.5024	0.5741	0.5808	Ave		0.5548			5.8		30.0				
n-Butylbenzene	++++ 1.0992	1.1015 1.1781	1.1632 1.1547	1.1595	1.1255	Ave		1.1403			2.8		30.0				
1,2-Dichlorobenzene	++++ 0.7740	0.7926 0.8409	0.8218 0.8700	0.8180	0.8246	Ave		0.8203			3.8		30.0				
n-Dodecane	++++ 0.4666	0.3894 0.4867	0.4504 ++++	0.4800	0.4718	Ave		0.4575			7.8		30.0				
1,2,4-Trichlorobenzene	++++ 0.7234	0.5666 0.7930	0.6238 ++++	0.6854	0.7552	Ave		0.6912			12.2		30.0				
Hexachlorobutadiene	++++ 0.6531	0.6477 0.6831	0.6851 ++++	0.6378	0.6829	Ave		0.6649			3.2		30.0				
Naphthalene	++++ 1.3025	1.0547 1.5328	1.0955 ++++	1.3252	1.4468	Ave		1.2929			14.6		30.0				
1,2,3-Trichlorobenzene	++++ 0.6413	0.4736 0.6969	0.5416 ++++	0.6092	0.6791	Ave		0.6069			14.1		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.: 200-44895-1 Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07 Calibration End Date: 08/14/2018 00:20 Calibration ID: 39905

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132849/3	31773-03.D
Level 2	IC 200-132849/4	31773-04.D
Level 3	IC 200-132849/5	31773-05.D
Level 4	IC 200-132849/6	31773-06.D
Level 5	ICIS 200-132849/7	31773-07.D
Level 6	IC 200-132849/8	31773-08.D
Level 7	IC 200-132849/9	31773-09.D
Level 8	IC 200-132849/10	31773-10.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 108738	++++ 149541	++++ 295473	37362	76232	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 533265	++++ 727842	18212 1436081	177981	364250	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 229053	++++ 313307	7833 619202	77976	159277	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 626354	8307 846123	21070 1667585	207921	426798	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 152820	++++ 208917	5512 413895	50963	105425	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 236087	3938 327204	9813 637136	80350	163410	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	397 221775	2556 303973	7528 603432	73378	152152	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	++++ 148984	1941 203454	4922 405124	49185	102668	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 300557	3906 410469	10018 827858	97960	204888	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 137798	++++ 189125	4481 375817	45188	93754	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 225440	3100 312538	7920 615042	76109	156993	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 328732	4067 448260	10822 905599	105728	222071	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 639773	8496 871683	21460 1745052	210152	434814	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 354304	++++ 487747	15230 959129	119325	246170	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 136918	++++ 269643	43481 602549	73888	111418	++++ 20.0	++++ 40.0	5.01 100.0	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.: 200-44895-1

Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07

Calibration End Date: 08/14/2018 00:20

Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Ethyl ether	BCM	Ave	++++ 172038	2049 237045	5671 472415	56590	118153	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrolein	BCM	Ave	++++ 92871	++++ 126518	++++ 237622	30395	62218	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Freon TF	BCM	Ave	++++ 713395	8955 968740	23894 1953145	232976	480868	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethene	BCM	Ave	605 347166	4390 475483	11601 962735	112761	234253	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetone	BCM	Ave	++++ 267469	++++ 370573	++++ 737094	95702	190038	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Isopropyl alcohol	BCM	Ave	++++ 322060	++++ 443685	++++ 867454	110600	242534	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Carbon disulfide	BCM	Ave	++++ 865115	++++ 1189538	28635 2392367	284461	592405	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
3-Chloropropene	BCM	Ave	++++ 260479	3348 347496	8206 664250	72975	109310	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 146889	1996 193642	5185 393973	46742	113135	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methylene Chloride	BCM	Ave	++++ 240143	++++ 332111	8902 655063	81298	165878	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
tert-Butyl alcohol	BCM	Ave	++++ 494309	++++ 674183	++++ 1335826	166049	352546	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl tert-butyl ether	BCM	Ave	++++ 794891	10187 1089527	25914 2182369	258552	538947	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 360185	4627 495352	11930 987231	118645	248369	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	++++ 172274	++++ 238468	5379 478406	56468	118771	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 408930	8512 560169	17501 1110057	137958	282547	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	872 461336	5721 633057	15306 1257269	152883	318316	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Vinyl acetate	BCM	Ave	++++ 517008	++++ 714669	++++ 1402530	172031	362538	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Methyl Ethyl Ketone	BCM	Ave	++++ 157801	++++ 219029	5683 429898	51267	108391	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	835 377453	4834 515557	12335 1040316	122857	254951	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	++++ 32634	++++ 44617	++++ 90169	10620	21649	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Tetrahydrofuran	DFBZ	Ave	++++ 225332	++++ 309898	++++ 610871	74702	157382	++++ 15.0	++++ 20.0	++++ 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.: 200-44895-1

Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07

Calibration End Date: 08/14/2018 00:20

Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 589534	7605 809590	19826 1617069	192966	402221	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 605973	7629 828284	20095 1651391	197177	412513	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 468497	5801 641395	15244 1281238	152561	319034	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	1157 662947	7550 907623	20495 1779062	212848	451097	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1296393	16847 1781966	46419 3508866	429284	893590	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 1005087	14974 1379418	35895 2754428	328639	684269	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	++++ 278867	3478 382883	9491 759830	92160	190696	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 387738	5318 537573	14261 1042764	131163	271560	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 178065	++++ 249315	++++ 494294	60538	132670	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	1079 462996	5679 635800	15271 1275367	150658	313245	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 321996	4072 443339	10833 876531	106751	221567	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 333404	++++ 461243	10495 919316	107764	226015	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 224576	++++ 302860	++++ 595657	77111	169698	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 588997	7969 809861	19534 1675440	187463	399086	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 634255	7740 868216	20417 1720862	204748	427363	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 561224	++++ 773814	18076 1547231	181242	379160	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 485758	++++ 673294	15495 1316154	161338	336147	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 531555	7072 721768	18972 1336135	181839	372874	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 800790	11414 1096781	27481 2163412	261230	544388	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 487086	++++ 671048	5641 1342381	14818	155872	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 357320	4505 494891	11943 981783	117074	244531	++++ 15.0	0.200 20.0	0.500 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.: 200-44895-1

Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07

Calibration End Date: 08/14/2018 00:20

Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	2024 869914	10770 1184484	27871 2422892	271363	571870	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 464058	++++ 638420	16185 1258293	153758	314151	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 894894	10067 1224758	26924 2397525	280826	582646	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 753718	9336 1037344	24167 2091444	240497	505627	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 1199578	15544 1632659	40123 3277060	384283	800165	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 1695952	23929 2308195	58638 4535811	551209	1145411	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 629437	8142 855036	22151 1617509	211828	435802	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 1495397	18611 2025679	48465 3967210	479769	1000493	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 723245	9662 981768	24182 1960200	232971	484858	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 1191564	14503 1630457	37381 3250722	380902	792119	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 1030514	10281 1395619	26784 2582115	306564	615254	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 2053061	25788 2787845	67298 5404368	660728	1384654	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 947251	12395 1283813	31654 2467756	310799	653604	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 2239462	28513 2982780	75595 5604055	735097	1530311	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 663620	++++ 893794	23445 1653595	220978	458860	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 770639	10140 1056588	28475 2050543	272191	547111	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 2013010	25588 2699447	67155 5311722	666273	1387452	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 1502514	19493 2043734	50682 3939697	486483	1037389	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 1594033	21238 2186582	55030 4477431	541173	1122979	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 958337	11764 1308498	30725 2705367	318821	655395	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 1647919	21635 2236812	56674 4559669	556203	1151064	++++ 15.0	0.200 20.0	0.500 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.: 200-44895-1

Analy Batch No.: 132849

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/13/2018 18:07

Calibration End Date: 08/14/2018 00:20

Calibration ID: 39905

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1583073	20654 2177650	54600 4483502	540460	1111171	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 2397190	33484 3305577	84711 6686483	824301	1674369	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 2154532	29045 2993634	74552 6080879	726901	1438677	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 1334140	17704 1840313	45928 3852387	446428	924733	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 1318868	17995 1842694	45228 3886173	446416	914905	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 1302925	14962 1926609	39231 3949374	425615	888660	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 883754	++++ 1205270	++++ 2144616	298350	606386	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 1784783	++++ 2481764	++++ 4928915	602562	1175049	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 1256725	++++ 1771475	++++ 3713294	425094	860883	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 757543	++++ 1025275	++++ 24044	249451	492524	++++ 15.0	0.200 20.0	0.500 ++++	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 1174502	++++ 1670630	++++ 36569	356166	788444	++++ 15.0	0.200 20.0	0.500 ++++	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 1060348	++++ 1438962	++++ 13701	331425	712934	++++ 15.0	0.200 20.0	0.500 ++++	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 2114765	++++ 3228986	++++ 58475	688674	1510461	++++ 15.0	0.200 20.0	0.500 ++++	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 1041188	++++ 1468046	++++ 28909	316560	708960	++++ 15.0	0.200 20.0	0.500 ++++	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45152-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.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	++++ 1.2721	++++ 1.2075	++++ 1.0857	1.2456	1.2490	Ave		1.2120			6.1		30.0				
Dichlorodifluoromethane	++++ 3.4938	++++ 3.3956	++++ 3.1168	4.2627	3.3358	Ave		3.5266			11.1		30.0				
Freon 22	++++ 2.1516	++++ 2.0754	++++ 1.8749	2.8179	2.1357	Ave		2.2102			14.4		30.0				
1,2-Dichlorotetrafluoroethane	1.7619	3.4978	4.4434	3.6027	4.0973	Ave		3.5293			22.4		30.0				
Chloromethane	++++ 1.3477	++++ 1.2894	1.7787	1.3238	1.3191	Ave		1.3706			15.3		30.0				
n-Butane	++++ 2.4403	++++ 2.3622	3.2816	2.3709	2.5588	Ave		2.5255			15.6		30.0				
Vinyl chloride	0.9198	1.3662	1.8012	1.4718	1.5588	Ave		1.4532			17.4		30.0				
1,3-Butadiene	0.3698	0.9849	1.2569	1.1335	1.2230	Ave		1.0523			27.5		30.0				
Bromomethane	++++ 1.2506	1.3151	1.6489	1.2449	1.2625	Ave		1.3078			11.9		30.0				
Chloroethane	++++ 0.7642	++++ 0.7523	0.9628	0.7774	0.7856	Ave		0.7925			11.0		30.0				
Isopentane	++++ 1.8395	1.9853	2.3101	1.8757	1.9417	Ave		1.9143			10.7		30.0				
Bromoethene (Vinyl Bromide)	++++ 1.1694	1.0671	1.3317	1.1231	1.2360	Ave		1.1866			7.1		30.0				
Trichlorofluoromethane	++++ 3.1483	3.3433	4.0650	3.2288	3.2677	Ave		3.3194			10.4		30.0				
n-Pentane	++++ 2.7689	++++ 2.7149	3.5401	2.7692	2.9083	Ave		2.8676			12.4		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.: 200-45152-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
Ethanol	++++ 0.6941	++++ 0.6526	0.9500 0.5428	0.7605	0.8976	Ave		0.7496			20.4		30.0				
Ethyl ether	++++ 0.9676	0.6857 0.9858	1.0643 0.9362	0.9571	1.0564	Ave		0.9504			13.3		30.0				
Acrolein	++++ 0.4879	++++ 0.5039	++++ 0.4718	0.4815	0.4934	Ave		0.4877			2.5		30.0				
Freon TF	++++ 2.8656	2.9165 2.9678	3.6569 2.8505	2.9183	2.5748	Ave		2.9643			11.2		30.0				
1,1-Dichloroethene	0.5904 1.3484	1.1451 1.3969	1.4121 1.3415	1.3150	1.2143	Ave		1.2205			22.1		30.0				
Acetone	++++ 2.1376	++++ 2.1109	++++ 1.9233	2.4831	2.2358	Ave		2.1781			9.4		30.0				
Carbon disulfide	++++ 3.8168	++++ 3.9349	4.7317 3.7353	3.9542	3.8978	Ave		4.0118			9.0		30.0				
Isopropyl alcohol	++++ 2.3483	++++ 2.3227	++++ 2.0420	2.5241	2.2715	Ave		2.3017			7.5		30.0				
3-Chloropropene	++++ 1.7618	1.4758 1.7435	1.7985 1.5860	1.4939	1.6883	Ave		1.6497			8.0		30.0				
Acetonitrile	++++ 0.9336	++++ 0.9428	++++ 0.8910	0.9270	0.9963	Ave		0.9381			4.0		30.0				
Methylene Chloride	++++ 1.6305	++++ 1.6073	2.4040 1.4968	1.7255	1.5533	Ave		1.7362			19.4		30.0				
tert-Butyl alcohol	++++ 2.7964	++++ 2.8577	++++ 2.5866	2.7883	2.8575	Ave		2.7773			4.0		30.0				
Methyl tert-butyl ether	++++ 3.8944	2.8498 4.0258	3.9216 3.8272	3.7079	3.8132	Ave		3.7200			10.7		30.0				
trans-1,2-Dichloroethene	++++ 1.9341	1.6479 1.9812	2.1930 1.8880	1.8935	1.9800	Ave		1.9311			8.4		30.0				
Acrylonitrile	++++ 0.8960	++++ 0.9258	0.8702 0.9031	0.8710	0.9044	Ave		0.8951			2.4		30.0				
n-Hexane	++++ 2.2958	1.7590 2.3191	2.3724 2.2032	2.2255	2.3268	Ave		2.2145			9.5		30.0				
1,1-Dichloroethane	2.0757 2.5596	2.7635 2.5983	3.3181 2.4285	2.6269	2.5877	Ave		2.6198			13.3		30.0				
Vinyl acetate	++++ 3.5544	++++ 3.6576	++++ 3.4463	3.3064	3.5199	Ave		3.4072			7.3		30.0				
cis-1,2-Dichloroethene	0.4972 1.3924	1.2267 1.4559	1.5000 1.4407	1.3404	1.3439	Ave		1.2747			25.5		30.0				
Methyl Ethyl Ketone	++++ 0.7253	++++ 0.7469	++++ 0.7322	0.7832	0.7131	Ave		0.7340			3.9		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.: 200-45152-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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	++++ 0.1203	++++ 0.1302	++++ 0.1286	0.1170	0.1168	Ave		0.1226			5.2		30.0				
Tetrahydrofuran	++++ 0.3308	++++ 0.3297	++++ 0.3084	0.3299	0.3585	Ave		0.3315			5.4		30.0				
Chloroform	++++ 2.8827	2.8482 2.9279	3.7206 2.7881	2.9767	2.8310	Ave		2.9965			10.9		30.0				
Cyclohexane	++++ 0.3686	0.2946 0.3914	0.3857 0.3852	0.3503	0.3692	Ave		0.3636			9.2		30.0				
1,1,1-Trichloroethane	++++ 0.5798	0.6206 0.6033	0.7193 0.5826	0.5797	0.5733	Ave		0.6084			8.5		30.0				
Carbon tetrachloride	0.4941 0.5845	0.5721 0.6113	0.7356 0.5701	0.5889	0.5822	Ave		0.5924			11.3		30.0				
2,2,4-Trimethylpentane	++++ 1.4186	1.0882 1.4665	1.4970 1.3838	1.3801	1.4435	Ave		1.3825			9.9		30.0				
Benzene	++++ 0.8623	0.8644 0.8967	1.1050 0.8630	0.8726	0.8696	Ave		0.9048			9.8		30.0				
1,2-Dichloroethane	0.2179 0.3576	0.3368 0.3659	0.4361 0.3455	0.3705	0.3600	Ave		0.3488			17.4		30.0				
n-Heptane	++++ 0.5449	0.3949 0.5534	0.5375 0.5150	0.5421	0.5695	Ave		0.5225			11.2		30.0				
n-Butanol	++++ 0.1832	++++ 0.1906	++++ 0.1765	0.1771	0.1874	Ave		0.1830			3.4		30.0				
Trichloroethene	0.2555 0.3679	0.3625 0.3867	0.4498 0.3808	0.3613	0.3650	Ave		0.3662			14.6		30.0				
1,2-Dichloropropane	++++ 0.3334	0.3350 0.3431	0.4103 0.3279	0.3377	0.3362	Ave		0.3462			8.3		30.0				
Methyl methacrylate	++++ 0.3154	++++ 0.3331	++++ 0.2623 0.3254	0.2876	0.3186	Ave		0.3071			8.7		30.0				
1,4-Dioxane	++++ 0.1735	++++ 0.1807	++++ 0.1672	0.1762	0.1685	Ave		0.1732			3.2		30.0				
Dibromomethane	++++ 0.3448	0.3057 0.3723	0.3959 0.3765	0.3329	0.3405	Ave		0.3527			8.7		30.0				
Bromodichloromethane	++++ 0.6151	0.5940 0.6398	0.7277 0.6090	0.6200	0.6279	Ave		0.6333			7.0		30.0				
cis-1,3-Dichloropropene	++++ 0.4831	0.3274 0.5111	0.4410 0.5034	0.4337	0.4502	Ave		0.4500			13.8		30.0				
methyl isobutyl ketone	++++ 0.7234	++++ 0.7279	0.6861 0.6794	0.7253	0.7428	Ave		0.7141			3.6		30.0				
Toluene	++++ 0.6730	0.5065 0.7010	0.7093 0.6914	0.6654	0.6790	Ave		0.6608			10.6		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.: 200-45152-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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-Octane	++++ 0.7990	0.5023 0.7984	0.7370 0.7294	0.8044	0.8371	Ave		0.7439			15.2		30.0				
trans-1,3-Dichloropropene	++++ 0.4353	0.3251 0.4603	0.3991 0.4494	0.3885	0.4444	Ave		0.4146			11.5		30.0				
1,1,2-Trichloroethane	++++ 0.3369	0.2982 0.3459	0.3962 0.3368	0.3407	0.3471	Ave		0.3431			8.4		30.0				
Tetrachloroethene	0.3289 0.5784	0.5594 0.6038	0.6825 0.6012	0.5663	0.5764	Ave		0.5621			18.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.7073	++++ 0.7130	0.6207 0.6745	0.6755	0.7163	Ave		0.6846			5.3		30.0				
Dibromochloromethane	++++ 0.6937	0.6178 0.7226	0.7606 0.6900	0.6602	0.6709	Ave		0.6880			6.6		30.0				
1,2-Dibromoethane	++++ 0.5797	0.4869 0.6056	0.5957 0.6009	0.5424	0.5732	Ave		0.5692			7.4		30.0				
Chlorobenzene	++++ 0.8771	0.8425 0.9100	1.0550 0.8832	0.8717	0.8719	Ave		0.9016			7.8		30.0				
Ethylbenzene	++++ 1.5127	1.1983 1.5541	1.5297 1.4821	1.4627	1.5120	Ave		1.4645			8.3		30.0				
n-Nonane	++++ 0.7909	0.5326 0.7985	0.7518 0.7550	0.7854	0.7975	Ave		0.7445			12.8		30.0				
m,p-Xylene	++++ 0.6016	0.4158 0.6224	0.5888 0.6088	0.5799	0.6046	Ave		0.5745			12.4		30.0				
Xylene, o-	++++ 0.5694	0.3712 0.5956	0.5017 0.5800	0.5435	0.5789	Ave		0.5343			14.7		30.0				
Styrene	++++ 0.9261	0.4482 0.9636	0.7107 0.9460	0.8515	0.8918	Ave		0.8197			22.5		30.0				
Bromoform	++++ 0.7504	0.5311 0.7787	0.6759 0.6987	0.6687	0.7044	Ave		0.6868			11.5		30.0				
Cumene	++++ 1.7361	1.0688 1.7711	1.5224 1.6704	1.6741	1.7280	Ave		1.5959			15.4		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.9372	0.8666 0.9448	1.1020 0.8908	0.9452	0.9717	Ave		0.9512			7.9		30.0				
n-Propylbenzene	++++ 2.1382	1.3844 2.1548	1.9966 1.9975	2.0936	2.1598	Ave		1.9893			13.9		30.0				
1,2,3-Trichloropropane	++++ 0.7289	++++ 0.7435	0.8739 0.7082	0.7407	0.7227	Ave		0.7530			8.1		30.0				
n-Decane	++++ 1.0681	++++ 1.0807	0.8940 1.0016	1.0617	1.0735	Ave		1.0299			7.0		30.0				
4-Ethyltoluene	++++ 1.7880	0.9799 1.8257	1.6499 1.7392	1.7532	1.8178	Ave		1.6505			18.3		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.: 200-45152-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
2-Chlorotoluene	++++ 1.4936	1.3586 1.5204	1.5930 1.4678	1.4624	1.5072	Ave		1.4861			4.8		30.0				
1,3,5-Trimethylbenzene	++++ 1.4715	1.0060 1.5069	1.4434 1.4234	1.4597	1.4969	Ave		1.4011			12.6		30.0				
Alpha Methyl Styrene	++++ 0.7589	0.3040 0.7947	0.5025 0.7779	0.6854	0.7226	Ave		0.6494			27.9		30.0				
tert-Butylbenzene	++++ 1.4401	0.9005 1.4699	1.3424 1.3814	1.4307	1.4497	Ave		1.3450			14.9		30.0				
1,2,4-Trimethylbenzene	++++ 1.4944	0.7515 1.5207	1.2656 1.4298	1.4584	1.5095	Ave		1.3471			20.5		30.0				
sec-Butylbenzene	++++ 2.2628	1.3523 2.2853	2.0449 2.0812	2.2412	2.2552	Ave		2.0747			16.0		30.0				
4-Isopropyltoluene	++++ 1.8925	0.9713 1.9272	1.4841 1.7822	1.8309	1.8446	Ave		1.6761			20.5		30.0				
1,3-Dichlorobenzene	++++ 1.0035	0.5012 1.0517	0.7866 1.0089	0.9495	0.9978	Ave		0.8999			21.7		30.0				
1,4-Dichlorobenzene	++++ 0.9500	0.5334 1.0041	0.7363 0.9869	0.8642	0.9346	Ave		0.8585			19.8		30.0				
Benzyl chloride	++++ 1.1359	0.4078 1.2395	0.6270 1.2012	0.9842	1.0966	Ave		0.9560			33.1	*	30.0				
n-Butylbenzene	++++ 1.8398	0.8228 1.8583	1.1609 1.7072	1.7118	1.7317	Ave		1.5475			25.6		30.0				
n-Undecane	++++ 1.0280	++++ 1.0633	++++ 0.9573	0.9842	0.9932	Ave		1.0052			4.1		30.0				
1,2-Dichlorobenzene	++++ 0.9634	0.5646 0.9916	0.8313 0.9539	0.9245	0.9394	Ave		0.8813			16.8		30.0				
n-Dodecane	++++ 0.7822	++++ 0.8508	++++ 0.8029	0.7248	0.6951	Ave		0.7711			8.1		30.0				
1,2,4-Trichlorobenzene	++++ 0.4592	++++ 0.5426	0.2509 0.5705	0.3459	0.3643	Ave		0.4222			29.3		30.0				
Hexachlorobutadiene	++++ 0.6587	0.5311 0.6945	0.7576 0.6877	0.6325	0.5852	Ave		0.6496			11.5		30.0				
Naphthalene	++++ 0.8313	++++ 1.0843	0.4158 1.1385	0.6253	0.5941	Ave		0.7816			36.9	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.3989	++++ 0.4718	0.2862 0.4761	0.3476	0.3075	Ave		0.3813			21.3		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.: 200-45152-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 229081	++++ 335104	++++ 690029	63771	138500	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 629173	++++ 942372	19148 1980898	170783	394190	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 387457	++++ 575969	12658 1191607	109340	244610	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	567 678166	6769 1018346	19960 2158127	184446	454360	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 242689	++++ 357828	7990 740620	67774	146273	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 439449	++++ 655562	14741 1359460	121381	283751	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	296 282171	2644 425659	8091 894131	75350	172859	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	119 215303	1906 325794	5646 686730	58034	135622	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 225216	2545 345434	7407 754787	63734	140007	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 137625	++++ 208781	4325 452875	39800	87113	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 331254	3842 498646	10377 1049139	96032	215321	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 210584	2065 335454	5982 743730	57502	137065	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 566947	6470 881910	18260 1909630	165308	362361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 498626	++++ 753456	15902 1591384	141773	322514	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 167020	++++ 362281	42724 862523	77920	149371	++++ 20.0	++++ 40.0	5.01 100.0	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.: 200-45152-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	
Ethyl ether	BCM	Ave	++++ 174248	1327 273583	4781 594977	48999	117148	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acrolein	BCM	Ave	++++ 87859	++++ 139842	++++ 299871	24649	54712	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Freon TF	BCM	Ave	++++ 516034	5644 823641	16427 1811645	149408	285522	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethene	BCM	Ave	190 242823	2216 387669	6343 852618	67322	134660	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acetone	BCM	Ave	++++ 384932	++++ 585817	++++ 1222345	127127	247929	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Carbon disulfide	BCM	Ave	++++ 687331	++++ 1092029	++++ 21255 2373966	202442	432235	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Isopropyl alcohol	BCM	Ave	++++ 422887	++++ 644593	++++ 1297823	129228	251887	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
3-Chloropropene	BCM	Ave	++++ 317272	++++ 483871	2856 1007982	8079	76484	187215	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 168129	++++ 261638	++++ 566277	47460	110481	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methylene Chloride	BCM	Ave	++++ 293627	++++ 446073	++++ 10799 951275	88340	172248	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
tert-Butyl alcohol	BCM	Ave	++++ 503574	++++ 793069	++++ 1643925	142752	316870	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methyl tert-butyl ether	BCM	Ave	++++ 701312	++++ 1117268	5515 2432364	17616	189832	422856	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,2-Dichloroethene	BCM	Ave	++++ 348287	++++ 549843	++++ 1199895	3909	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Acrylonitrile	BCM	Ave	++++ 161348	++++ 256918	++++ 573972	3909	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 413422	++++ 643604	++++ 1400263	3404	113942	258023	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1-Dichloroethane	BCM	Ave	668 460942	5348 721082	14905 1543449	134488	286961	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Vinyl acetate	BCM	Ave	++++ 640076	++++ 1015068	++++ 2190326	13289	169281	390327	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
cis-1,2-Dichloroethene	BCM	Ave	160 250749	2374 404053	6738 915622	68626	149030	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Methyl Ethyl Ketone	BCM	Ave	++++ 130605	++++ 207286	++++ 465374	3518	35997	79074	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethyl acetate	BCM	Ave	++++ 21663	++++ 36137	++++ 81707	5988	12951	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Tetrahydrofuran	DFBZ	Ave	++++ 303981	++++ 457752	++++ 977217	87053	201059	++++ 15.0	++++ 20.0	++++ 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.: 200-45152-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 519124	5512 812567	16713 1771953	152398	313936	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 338659	2861 543389	8752 1220355	92448	207091	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 532749	6027 837639	16321 1845623	152974	321515	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	814 537087	5556 848776	16691 1806258	155416	326541	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1303438	10569 2036083	33966 4383950	364201	809570	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 792281	8395 1244933	25071 2734241	230283	487727	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	359 328527	3271 508017	9894 1094664	97779	201898	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 500617	3835 768347	12196 1631660	143058	319384	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 168312	++++ 264629	++++ 559265	46746	105126	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	421 338005	3521 536864	10205 1206565	95352	204695	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 306308	3254 476382	9309 1038944	89132	188556	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 289766	++++ 462464	5951 1030816	75891	178695	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 159371	++++ 250917	++++ 529826	46512	94475	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 316837	2969 516873	8982 1192793	87852	190974	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 565141	5769 888231	16511 1929257	163609	352152	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 443842	3180 709590	10005 1594798	114446	252519	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 664639	++++ 1010644	15566 2152561	191400	416594	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 575303	4332 911894	14298 2054489	160317	355280	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 734103	4878 1108548	16723 2310758	212276	469471	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 399964	3157 639104	9055 1423769	102523	249237	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 288016	2550 449990	7986 1000684	82086	181629	++++ 15.0	0.200 20.0	0.500 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.: 200-45152-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Tetrachloroethene	CBNZ d5	Ave	472 494454	4784 785431	13757 1786299	136429	301636	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 604631	++++ 927549	12512 2004253	162742	374802	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 592982	5284 939917	15331 2050177	159064	351064	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dibromoethane	CBNZ d5	Ave	++++ 495526	4164 787799	12007 1785575	130680	299961	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chlorobenzene	CBNZ d5	Ave	++++ 749791	7206 1183754	21265 2624429	210004	456227	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Ethylbenzene	CBNZ d5	Ave	++++ 1293154	10249 2021657	30835 4403857	352386	791165	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Nonane	CBNZ d5	Ave	++++ 676117	4555 1038709	15155 2243494	189211	417329	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
m,p-Xylene	CBNZ d5	Ave	++++ 1028524	7112 1619205	23736 3618113	279423	632702	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0
Xylene, o-	CBNZ d5	Ave	++++ 486724	3175 774769	10113 1723350	130937	302915	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Styrene	CBNZ d5	Ave	++++ 791668	3833 1253520	14326 2810854	205152	466651	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoform	CBNZ d5	Ave	++++ 641511	4542 1012907	13625 2076183	161107	368593	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cumene	CBNZ d5	Ave	++++ 1484104	9141 2303914	30688 4963433	403334	904238	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 801211	7412 1229077	22214 2646811	227707	508484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Propylbenzene	CBNZ d5	Ave	++++ 1827875	11840 2802981	40245 5935490	504393	1130178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 623101	++++ 967131	17616 2104294	178454	378183	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Decane	CBNZ d5	Ave	++++ 913086	++++ 1405856	18020 2976041	255781	561742	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
4-Ethyltoluene	CBNZ d5	Ave	++++ 1528529	8381 2374846	33258 5167998	422372	951220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2-Chlorotoluene	CBNZ d5	Ave	++++ 1276835	11620 1977789	32110 4361512	352312	788674	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 1257942	8604 1960263	29094 4229571	351662	783282	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 648755	2600 1033742	10129 2311552	165135	378138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
tert-Butylbenzene	CBNZ d5	Ave	++++ 1231088	7702 1912104	27059 4104582	344688	758579	++++ 15.0	0.200 20.0	0.500 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.: 200-45152-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1277476	6427 1978223	25511 4248469	351346	789880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 1934375	11566 2972776	41219 6184064	539942	1180094	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 1617829	8307 2506935	29915 5295535	441105	965217	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 857866	4287 1368110	15856 2997986	228757	522107	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 812084	4562 1306110	14842 2932640	208199	489040	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 971036	3488 1612348	12639 3569163	237101	573804	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 1572760	7037 2417337	23401 5072861	412398	906138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 878815	++++ 1383209	++++ 2844677	237105	519723	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 823592	4829 1289953	16757 2834408	222741	491548	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 668660	++++ 1106730	++++ 2385792	174613	363702	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 392593	++++ 705832	5057 1695136	83337	190617	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 563076	4542 903451	15272 2043487	152392	306198	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 710625	++++ 1410519	8381 3383017	150653	310901	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 340978	++++ 613706	5769 1414632	83747	160899	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.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								
	LVL 6	LVL 7	LVL 8														
Propylene	++++ 1.2721	++++ 1.2075	++++ 1.0857	1.2456	1.2490	Ave		1.2120			6.1		30.0				
Dichlorodifluoromethane	++++ 3.4938	++++ 3.3956	++++ 4.2627 3.1168	3.3358	3.5547	Ave		3.5266			11.1		30.0				
Freon 22	++++ 2.1516	++++ 2.0754	++++ 2.8179 1.8749	2.1357	2.2058	Ave		2.2102			14.4		30.0				
1,2-Dichlorotetrafluoroethane	1.7619 3.7659	3.4978 3.6694	4.4434 3.3957	3.6027	4.0973	Ave		3.5293			22.4		30.0				
Chloromethane	++++ 1.3477	++++ 1.2894	1.7787 1.1653	1.3238	1.3191	Ave		1.3706			15.3		30.0				
n-Butane	++++ 2.4403	++++ 2.3622	++++ 3.2816 2.1390	2.3709	2.5588	Ave		2.5255			15.6		30.0				
Vinyl chloride	0.9198 1.5669	1.3662 1.5338	1.8012 1.4069	1.4718	1.5588	Ave		1.4532			17.4		30.0				
1,3-Butadiene	0.3698 1.1956	0.9849 1.1739	1.2569 1.0805	1.1335	1.2230	Ave		1.0523			27.5		30.0				
Bromomethane	++++ 1.2506	1.3151 1.2447	1.6489 1.1876	1.2449	1.2625	Ave		1.3078			11.9		30.0				
Chloroethane	++++ 0.7642	++++ 0.7523	0.9628 0.7126	0.7774	0.7856	Ave		0.7925			11.0		30.0				
Isopentane	++++ 1.8395	1.9853 1.7968	2.3101 1.6508	1.8757	1.9417	Ave		1.9143			10.7		30.0				
Bromoethene (Vinyl Bromide)	++++ 1.1694	1.0671 1.2087	1.3317 1.1702	1.1231	1.2360	Ave		1.1866			7.1		30.0				
Trichlorofluoromethane	++++ 3.1483	3.3433 3.1778	4.0650 3.0047	3.2288	3.2677	Ave		3.3194			10.4		30.0				
n-Pentane	++++ 2.7689	++++ 2.7149	3.5401 2.5039	2.7692	2.9083	Ave		2.8676			12.4		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.: 200-45174-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
Ethanol	++++ 0.6941	++++ 0.6526	0.9500 0.5428	0.7605	0.8976	Ave		0.7496			20.4		30.0				
Ethyl ether	++++ 0.9676	0.6857 0.9858	1.0643 0.9362	0.9571	1.0564	Ave		0.9504			13.3		30.0				
Acrolein	++++ 0.4879	++++ 0.5039	++++ 0.4718	0.4815	0.4934	Ave		0.4877			2.5		30.0				
Freon TF	++++ 2.8656	2.9165 2.9678	3.6569 2.8505	2.9183	2.5748	Ave		2.9643			11.2		30.0				
1,1-Dichloroethene	0.5904 1.3484	1.1451 1.3969	1.4121 1.3415	1.3150	1.2143	Ave		1.2205			22.1		30.0				
Acetone	++++ 2.1376	++++ 2.1109	++++ 1.9233	2.4831	2.2358	Ave		2.1781			9.4		30.0				
Carbon disulfide	++++ 3.8168	++++ 3.9349	4.7317 3.7353	3.9542	3.8978	Ave		4.0118			9.0		30.0				
Isopropyl alcohol	++++ 2.3483	++++ 2.3227	++++ 2.0420	2.5241	2.2715	Ave		2.3017			7.5		30.0				
3-Chloropropene	++++ 1.7618	1.4758 1.7435	1.7985 1.5860	1.4939	1.6883	Ave		1.6497			8.0		30.0				
Acetonitrile	++++ 0.9336	++++ 0.9428	++++ 0.8910	0.9270	0.9963	Ave		0.9381			4.0		30.0				
Methylene Chloride	++++ 1.6305	++++ 1.6073	2.4040 1.4968	1.7255	1.5533	Ave		1.7362			19.4		30.0				
tert-Butyl alcohol	++++ 2.7964	++++ 2.8577	++++ 2.5866	2.7883	2.8575	Ave		2.7773			4.0		30.0				
Methyl tert-butyl ether	++++ 3.8944	2.8498 4.0258	3.9216 3.8272	3.7079	3.8132	Ave		3.7200			10.7		30.0				
trans-1,2-Dichloroethene	++++ 1.9341	1.6479 1.9812	2.1930 1.8880	1.8935	1.9800	Ave		1.9311			8.4		30.0				
Acrylonitrile	++++ 0.8960	++++ 0.9258	0.8702 0.9031	0.8710	0.9044	Ave		0.8951			2.4		30.0				
n-Hexane	++++ 2.2958	1.7590 2.3191	2.3724 2.2032	2.2255	2.3268	Ave		2.2145			9.5		30.0				
1,1-Dichloroethane	2.0757 2.5596	2.7635 2.5983	3.3181 2.4285	2.6269	2.5877	Ave		2.6198			13.3		30.0				
Vinyl acetate	++++ 3.5544	++++ 3.6576	++++ 3.4463	3.3064	3.5199	Ave		3.4072			7.3		30.0				
cis-1,2-Dichloroethene	0.4972 1.3924	1.2267 1.4559	1.5000 1.4407	1.3404	1.3439	Ave		1.2747			25.5		30.0				
Methyl Ethyl Ketone	++++ 0.7253	++++ 0.7469	++++ 0.7322	0.7832	0.7131	Ave		0.7340			3.9		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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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	++++ 0.1203	++++ 0.1302	++++ 0.1286	0.1170	0.1168	Ave		0.1226			5.2		30.0				
Tetrahydrofuran	++++ 0.3308	++++ 0.3297	++++ 0.3084	0.3299	0.3585	Ave		0.3315			5.4		30.0				
Chloroform	++++ 2.8827	2.8482 2.9279	3.7206 2.7881	2.9767	2.8310	Ave		2.9965			10.9		30.0				
Cyclohexane	++++ 0.3686	0.2946 0.3914	0.3857 0.3852	0.3503	0.3692	Ave		0.3636			9.2		30.0				
1,1,1-Trichloroethane	++++ 0.5798	0.6206 0.6033	0.7193 0.5826	0.5797	0.5733	Ave		0.6084			8.5		30.0				
Carbon tetrachloride	0.4941 0.5845	0.5721 0.6113	0.7356 0.5701	0.5889	0.5822	Ave		0.5924			11.3		30.0				
2,2,4-Trimethylpentane	++++ 1.4186	1.0882 1.4665	1.4970 1.3838	1.3801	1.4435	Ave		1.3825			9.9		30.0				
Benzene	++++ 0.8623	0.8644 0.8967	1.1050 0.8630	0.8726	0.8696	Ave		0.9048			9.8		30.0				
1,2-Dichloroethane	0.2179 0.3576	0.3368 0.3659	0.4361 0.3455	0.3705	0.3600	Ave		0.3488			17.4		30.0				
n-Heptane	++++ 0.5449	0.3949 0.5534	0.5375 0.5150	0.5421	0.5695	Ave		0.5225			11.2		30.0				
n-Butanol	++++ 0.1832	++++ 0.1906	++++ 0.1765	0.1771	0.1874	Ave		0.1830			3.4		30.0				
Trichloroethene	0.2555 0.3679	0.3625 0.3867	0.4498 0.3808	0.3613	0.3650	Ave		0.3662			14.6		30.0				
1,2-Dichloropropane	++++ 0.3334	0.3350 0.3431	0.4103 0.3279	0.3377	0.3362	Ave		0.3462			8.3		30.0				
Methyl methacrylate	++++ 0.3154	++++ 0.3331	++++ 0.3254	0.2876	0.3186	Ave		0.3071			8.7		30.0				
1,4-Dioxane	++++ 0.1735	++++ 0.1807	++++ 0.1672	0.1762	0.1685	Ave		0.1732			3.2		30.0				
Dibromomethane	++++ 0.3448	0.3057 0.3723	0.3959 0.3765	0.3329	0.3405	Ave		0.3527			8.7		30.0				
Bromodichloromethane	++++ 0.6151	0.5940 0.6398	0.7277 0.6090	0.6200	0.6279	Ave		0.6333			7.0		30.0				
cis-1,3-Dichloropropene	++++ 0.4831	0.3274 0.5111	0.4410 0.5034	0.4337	0.4502	Ave		0.4500			13.8		30.0				
methyl isobutyl ketone	++++ 0.7234	++++ 0.7279	0.6861 0.6794	0.7253	0.7428	Ave		0.7141			3.6		30.0				
Toluene	++++ 0.6730	0.5065 0.7010	0.7093 0.6914	0.6654	0.6790	Ave		0.6608			10.6		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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

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-Octane	++++ 0.7990	0.5023 0.7984	0.7370 0.7294	0.8044	0.8371	Ave		0.7439			15.2		30.0				
trans-1,3-Dichloropropene	++++ 0.4353	0.3251 0.4603	0.3991 0.4494	0.3885	0.4444	Ave		0.4146			11.5		30.0				
1,1,2-Trichloroethane	++++ 0.3369	0.2982 0.3459	0.3962 0.3368	0.3407	0.3471	Ave		0.3431			8.4		30.0				
Tetrachloroethene	0.3289 0.5784	0.5594 0.6038	0.6825 0.6012	0.5663	0.5764	Ave		0.5621			18.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.7073	++++ 0.7130	0.6207 0.6745	0.6755	0.7163	Ave		0.6846			5.3		30.0				
Dibromochloromethane	++++ 0.6937	0.6178 0.7226	0.7606 0.6900	0.6602	0.6709	Ave		0.6880			6.6		30.0				
1,2-Dibromoethane	++++ 0.5797	0.4869 0.6056	0.5957 0.6009	0.5424	0.5732	Ave		0.5692			7.4		30.0				
Chlorobenzene	++++ 0.8771	0.8425 0.9100	1.0550 0.8832	0.8717	0.8719	Ave		0.9016			7.8		30.0				
Ethylbenzene	++++ 1.5127	1.1983 1.5541	1.5297 1.4821	1.4627	1.5120	Ave		1.4645			8.3		30.0				
n-Nonane	++++ 0.7909	0.5326 0.7985	0.7518 0.7550	0.7854	0.7975	Ave		0.7445			12.8		30.0				
m,p-Xylene	++++ 0.6016	0.4158 0.6224	0.5888 0.6088	0.5799	0.6046	Ave		0.5745			12.4		30.0				
Xylene, o-	++++ 0.5694	0.3712 0.5956	0.5017 0.5800	0.5435	0.5789	Ave		0.5343			14.7		30.0				
Styrene	++++ 0.9261	0.4482 0.9636	0.7107 0.9460	0.8515	0.8918	Ave		0.8197			22.5		30.0				
Bromoform	++++ 0.7504	0.5311 0.7787	0.6759 0.6987	0.6687	0.7044	Ave		0.6868			11.5		30.0				
Cumene	++++ 1.7361	1.0688 1.7711	1.5224 1.6704	1.6741	1.7280	Ave		1.5959			15.4		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.9372	0.8666 0.9448	1.1020 0.8908	0.9452	0.9717	Ave		0.9512			7.9		30.0				
n-Propylbenzene	++++ 2.1382	1.3844 2.1548	1.9966 1.9975	2.0936	2.1598	Ave		1.9893			13.9		30.0				
1,2,3-Trichloropropane	++++ 0.7289	++++ 0.7435	0.8739 0.7082	0.7407	0.7227	Ave		0.7530			8.1		30.0				
n-Decane	++++ 1.0681	++++ 1.0807	0.8940 1.0016	1.0617	1.0735	Ave		1.0299			7.0		30.0				
4-Ethyltoluene	++++ 1.7880	0.9799 1.8257	1.6499 1.7392	1.7532	1.8178	Ave		1.6505			18.3		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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
2-Chlorotoluene	++++ 1.4936	1.3586 1.5204	1.5930 1.4678	1.4624	1.5072	Ave		1.4861			4.8		30.0				
1,3,5-Trimethylbenzene	++++ 1.4715	1.0060 1.5069	1.4434 1.4234	1.4597	1.4969	Ave		1.4011			12.6		30.0				
Alpha Methyl Styrene	++++ 0.7589	0.3040 0.7947	0.5025 0.7779	0.6854	0.7226	Ave		0.6494			27.9		30.0				
tert-Butylbenzene	++++ 1.4401	0.9005 1.4699	1.3424 1.3814	1.4307	1.4497	Ave		1.3450			14.9		30.0				
1,2,4-Trimethylbenzene	++++ 1.4944	0.7515 1.5207	1.2656 1.4298	1.4584	1.5095	Ave		1.3471			20.5		30.0				
sec-Butylbenzene	++++ 2.2628	1.3523 2.2853	2.0449 2.0812	2.2412	2.2552	Ave		2.0747			16.0		30.0				
4-Isopropyltoluene	++++ 1.8925	0.9713 1.9272	1.4841 1.7822	1.8309	1.8446	Ave		1.6761			20.5		30.0				
1,3-Dichlorobenzene	++++ 1.0035	0.5012 1.0517	0.7866 1.0089	0.9495	0.9978	Ave		0.8999			21.7		30.0				
1,4-Dichlorobenzene	++++ 0.9500	0.5334 1.0041	0.7363 0.9869	0.8642	0.9346	Ave		0.8585			19.8		30.0				
Benzyl chloride	++++ 1.1359	0.4078 1.2395	0.6270 1.2012	0.9842	1.0966	Ave		0.9560			33.1	*	30.0				
n-Butylbenzene	++++ 1.8398	0.8228 1.8583	1.1609 1.7072	1.7118	1.7317	Ave		1.5475			25.6		30.0				
n-Undecane	++++ 1.0280	++++ 1.0633	++++ 0.9573	0.9842	0.9932	Ave		1.0052			4.1		30.0				
1,2-Dichlorobenzene	++++ 0.9634	0.5646 0.9916	0.8313 0.9539	0.9245	0.9394	Ave		0.8813			16.8		30.0				
n-Dodecane	++++ 0.7822	++++ 0.8508	++++ 0.8029	0.7248	0.6951	Ave		0.7711			8.1		30.0				
1,2,4-Trichlorobenzene	++++ 0.4592	++++ 0.5426	0.2509 0.5705	0.3459	0.3643	Ave		0.4222			29.3		30.0				
Hexachlorobutadiene	++++ 0.6587	0.5311 0.6945	0.7576 0.6877	0.6325	0.5852	Ave		0.6496			11.5		30.0				
Naphthalene	++++ 0.8313	++++ 1.0843	0.4158 1.1385	0.6253	0.5941	Ave		0.7816			36.9	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.3989	++++ 0.4718	0.2862 0.4761	0.3476	0.3075	Ave		0.3813			21.3		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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 229081	++++ 335104	++++ 690029	63771	138500	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 629173	++++ 942372	19148 1980898	170783	394190	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 387457	++++ 575969	12658 1191607	109340	244610	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	567 678166	6769 1018346	19960 2158127	184446	454360	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 242689	++++ 357828	7990 740620	67774	146273	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 439449	++++ 655562	14741 1359460	121381	283751	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	296 282171	2644 425659	8091 894131	75350	172859	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	119 215303	1906 325794	5646 686730	58034	135622	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 225216	2545 345434	7407 754787	63734	140007	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 137625	++++ 208781	4325 452875	39800	87113	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 331254	3842 498646	10377 1049139	96032	215321	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 210584	2065 335454	5982 743730	57502	137065	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 566947	6470 881910	18260 1909630	165308	362361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 498626	++++ 753456	15902 1591384	141773	322514	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 167020	++++ 362281	42724 862523	77920	149371	++++ 20.0	++++ 40.0	5.01 100.0	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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	
Ethyl ether	BCM	Ave	++++ 174248	1327 273583	4781 594977	48999	117148	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acrolein	BCM	Ave	++++ 87859	++++ 139842	++++ 299871	24649	54712	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Freon TF	BCM	Ave	++++ 516034	5644 823641	16427 1811645	149408	285522	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethene	BCM	Ave	190 242823	2216 387669	6343 852618	67322	134660	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acetone	BCM	Ave	++++ 384932	++++ 585817	++++ 1222345	127127	247929	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Carbon disulfide	BCM	Ave	++++ 687331	++++ 1092029	++++ 21255 2373966	202442	432235	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Isopropyl alcohol	BCM	Ave	++++ 422887	++++ 644593	++++ 1297823	129228	251887	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
3-Chloropropene	BCM	Ave	++++ 317272	++++ 483871	++++ 2856 1007982	8079	76484	187215	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 168129	++++ 261638	++++ 566277	47460	110481	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methylene Chloride	BCM	Ave	++++ 293627	++++ 446073	++++ 10799 951275	88340	172248	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
tert-Butyl alcohol	BCM	Ave	++++ 503574	++++ 793069	++++ 1643925	142752	316870	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methyl tert-butyl ether	BCM	Ave	++++ 701312	++++ 5515 1117268	++++ 17616 2432364	189832	422856	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
trans-1,2-Dichloroethene	BCM	Ave	++++ 348287	++++ 3189 549843	++++ 9851 1199895	96940	219572	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acrylonitrile	BCM	Ave	++++ 161348	++++ 256918	++++ 3909 573972	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
n-Hexane	BCM	Ave	++++ 413422	++++ 3404 643604	++++ 10657 1400263	113942	258023	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethane	BCM	Ave	668 460942	5348 721082	14905 1543449	134488	286961	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Vinyl acetate	BCM	Ave	++++ 640076	++++ 1015068	++++ 13289 2190326	169281	390327	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
cis-1,2-Dichloroethene	BCM	Ave	160 250749	2374 404053	6738 915622	68626	149030	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Methyl Ethyl Ketone	BCM	Ave	++++ 130605	++++ 207286	++++ 3518 465374	35997	79074	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Ethyl acetate	BCM	Ave	++++ 21663	++++ 36137	++++ 81707	5988	12951	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Tetrahydrofuran	DFBZ	Ave	++++ 303981	++++ 457752	++++ 977217	87053	201059	++++ 15.0	++++ 20.0	++++ 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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 519124	5512 812567	16713 1771953	152398	313936	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 338659	2861 543389	8752 1220355	92448	207091	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 532749	6027 837639	16321 1845623	152974	321515	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	814 537087	5556 848776	16691 1806258	155416	326541	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1303438	10569 2036083	33966 4383950	364201	809570	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 792281	8395 1244933	25071 2734241	230283	487727	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	359 328527	3271 508017	9894 1094664	97779	201898	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 500617	3835 768347	12196 1631660	143058	319384	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 168312	++++ 264629	++++ 559265	46746	105126	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	421 338005	3521 536864	10205 1206565	95352	204695	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 306308	3254 476382	9309 1038944	89132	188556	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 289766	++++ 462464	5951 1030816	75891	178695	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 159371	++++ 250917	++++ 529826	46512	94475	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 316837	2969 516873	8982 1192793	87852	190974	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 565141	5769 888231	16511 1929257	163609	352152	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 443842	3180 709590	10005 1594798	114446	252519	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 664639	++++ 1010644	15566 2152561	191400	416594	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 575303	4332 911894	14298 2054489	160317	355280	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 734103	4878 1108548	16723 2310758	212276	469471	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 399964	3157 639104	9055 1423769	102523	249237	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 288016	2550 449990	7986 1000684	82086	181629	++++ 15.0	0.200 20.0	0.500 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.: 200-45174-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	
Tetrachloroethene	CBNZ d5	Ave	472 494454	4784 785431	13757 1786299	136429	301636	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 604631	++++ 927549	++++ 2004253	12512	162742	374802	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 592982	5284 939917	15331 2050177	159064	351064	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,2-Dibromoethane	CBNZ d5	Ave	++++ 495526	4164 787799	12007 1785575	130680	299961	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Chlorobenzene	CBNZ d5	Ave	++++ 749791	7206 1183754	21265 2624429	210004	456227	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Ethylbenzene	CBNZ d5	Ave	++++ 1293154	10249 2021657	30835 4403857	352386	791165	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
n-Nonane	CBNZ d5	Ave	++++ 676117	4555 1038709	15155 2243494	189211	417329	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
m,p-Xylene	CBNZ d5	Ave	++++ 1028524	7112 1619205	23736 3618113	279423	632702	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0	
Xylene, o-	CBNZ d5	Ave	++++ 486724	3175 774769	10113 1723350	130937	302915	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Styrene	CBNZ d5	Ave	++++ 791668	3833 1253520	14326 2810854	205152	466651	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Bromoform	CBNZ d5	Ave	++++ 641511	4542 1012907	13625 2076183	161107	368593	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Cumene	CBNZ d5	Ave	++++ 1484104	9141 2303914	30688 4963433	403334	904238	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 801211	7412 1229077	22214 2646811	227707	508484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
n-Propylbenzene	CBNZ d5	Ave	++++ 1827875	11840 2802981	40245 5935490	504393	1130178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 623101	++++ 967131	17616 2104294	178454	378183	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
n-Decane	CBNZ d5	Ave	++++ 913086	++++ 1405856	18020 2976041	255781	561742	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
4-Ethyltoluene	CBNZ d5	Ave	++++ 1528529	8381 2374846	33258 5167998	422372	951220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
2-Chlorotoluene	CBNZ d5	Ave	++++ 1276835	11620 1977789	32110 4361512	352312	788674	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 1257942	8604 1960263	29094 4229571	351662	783282	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 648755	2600 1033742	10129 2311552	165135	378138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
tert-Butylbenzene	CBNZ d5	Ave	++++ 1231088	7702 1912104	27059 4104582	344688	758579	++++ 15.0	0.200 20.0	0.500 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.: 200-45174-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1277476	6427 1978223	25511 4248469	351346	789880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 1934375	11566 2972776	41219 6184064	539942	1180094	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 1617829	8307 2506935	29915 5295535	441105	965217	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 857866	4287 1368110	15856 2997986	228757	522107	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 812084	4562 1306110	14842 2932640	208199	489040	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 971036	3488 1612348	12639 3569163	237101	573804	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 1572760	7037 2417337	23401 5072861	412398	906138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 878815	++++ 1383209	++++ 2844677	237105	519723	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 823592	4829 1289953	16757 2834408	222741	491548	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 668660	++++ 1106730	++++ 2385792	174613	363702	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 392593	++++ 705832	5057 1695136	83337	190617	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 563076	4542 903451	15272 2043487	152392	306198	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 710625	++++ 1410519	8381 3383017	150653	310901	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 340978	++++ 613706	5769 1414632	83747	160899	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00

Curve Type Legend:

Ave = Average ISTD

FORM VI  
AIR - GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.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	++++ 1.2721	++++ 1.2075	++++ 1.0857	1.2456	1.2490	Ave		1.2120			6.1		30.0				
Dichlorodifluoromethane	++++ 3.4938	++++ 3.3956	++++ 3.1168	4.2627	3.3358	Ave		3.5266			11.1		30.0				
Freon 22	++++ 2.1516	++++ 2.0754	++++ 1.8749	2.8179	2.1357	Ave		2.2102			14.4		30.0				
1,2-Dichlorotetrafluoroethane	1.7619	3.4978	4.4434	3.6027	4.0973	Ave		3.5293			22.4		30.0				
Chloromethane	++++ 1.3477	++++ 1.2894	1.7787	1.3238	1.3191	Ave		1.3706			15.3		30.0				
n-Butane	++++ 2.4403	++++ 2.3622	3.2816	2.3709	2.5588	Ave		2.5255			15.6		30.0				
Vinyl chloride	0.9198	1.3662	1.8012	1.4718	1.5588	Ave		1.4532			17.4		30.0				
1,3-Butadiene	0.3698	0.9849	1.2569	1.1335	1.2230	Ave		1.0523			27.5		30.0				
Bromomethane	++++ 1.2506	1.3151	1.6489	1.2449	1.2625	Ave		1.3078			11.9		30.0				
Chloroethane	++++ 0.7642	++++ 0.7523	0.9628	0.7774	0.7856	Ave		0.7925			11.0		30.0				
Isopentane	++++ 1.8395	1.9853	2.3101	1.8757	1.9417	Ave		1.9143			10.7		30.0				
Bromoethene (Vinyl Bromide)	++++ 1.1694	1.0671	1.3317	1.1231	1.2360	Ave		1.1866			7.1		30.0				
Trichlorofluoromethane	++++ 3.1483	3.3433	4.0650	3.2288	3.2677	Ave		3.3194			10.4		30.0				
n-Pentane	++++ 2.7689	++++ 2.7149	3.5401	2.7692	2.9083	Ave		2.8676			12.4		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.: 200-45175-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
Ethanol	++++ 0.6941	++++ 0.6526	0.9500 0.5428	0.7605	0.8976	Ave		0.7496			20.4		30.0				
Ethyl ether	++++ 0.9676	0.6857 0.9858	1.0643 0.9362	0.9571	1.0564	Ave		0.9504			13.3		30.0				
Acrolein	++++ 0.4879	++++ 0.5039	++++ 0.4718	0.4815	0.4934	Ave		0.4877			2.5		30.0				
Freon TF	++++ 2.8656	2.9165 2.9678	3.6569 2.8505	2.9183	2.5748	Ave		2.9643			11.2		30.0				
1,1-Dichloroethene	0.5904 1.3484	1.1451 1.3969	1.4121 1.3415	1.3150	1.2143	Ave		1.2205			22.1		30.0				
Acetone	++++ 2.1376	++++ 2.1109	++++ 1.9233	2.4831	2.2358	Ave		2.1781			9.4		30.0				
Carbon disulfide	++++ 3.8168	++++ 3.9349	4.7317 3.7353	3.9542	3.8978	Ave		4.0118			9.0		30.0				
Isopropyl alcohol	++++ 2.3483	++++ 2.3227	++++ 2.0420	2.5241	2.2715	Ave		2.3017			7.5		30.0				
3-Chloropropene	++++ 1.7618	1.4758 1.7435	1.7985 1.5860	1.4939	1.6883	Ave		1.6497			8.0		30.0				
Acetonitrile	++++ 0.9336	++++ 0.9428	++++ 0.8910	0.9270	0.9963	Ave		0.9381			4.0		30.0				
Methylene Chloride	++++ 1.6305	++++ 1.6073	2.4040 1.4968	1.7255	1.5533	Ave		1.7362			19.4		30.0				
tert-Butyl alcohol	++++ 2.7964	++++ 2.8577	++++ 2.5866	2.7883	2.8575	Ave		2.7773			4.0		30.0				
Methyl tert-butyl ether	++++ 3.8944	2.8498 4.0258	3.9216 3.8272	3.7079	3.8132	Ave		3.7200			10.7		30.0				
trans-1,2-Dichloroethene	++++ 1.9341	1.6479 1.9812	2.1930 1.8880	1.8935	1.9800	Ave		1.9311			8.4		30.0				
Acrylonitrile	++++ 0.8960	++++ 0.9258	0.8702 0.9031	0.8710	0.9044	Ave		0.8951			2.4		30.0				
n-Hexane	++++ 2.2958	1.7590 2.3191	2.3724 2.2032	2.2255	2.3268	Ave		2.2145			9.5		30.0				
1,1-Dichloroethane	2.0757 2.5596	2.7635 2.5983	3.3181 2.4285	2.6269	2.5877	Ave		2.6198			13.3		30.0				
Vinyl acetate	++++ 3.5544	++++ 3.6576	++++ 3.4463	3.3064	3.5199	Ave		3.4072			7.3		30.0				
cis-1,2-Dichloroethene	0.4972 1.3924	1.2267 1.4559	1.5000 1.4407	1.3404	1.3439	Ave		1.2747			25.5		30.0				
Methyl Ethyl Ketone	++++ 0.7253	++++ 0.7469	++++ 0.7322	0.7832	0.7131	Ave		0.7340			3.9		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.: 200-45175-1 Analy Batch No.: 132926  
 SDG No.: \_\_\_\_\_  
 Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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	++++ 0.1203	++++ 0.1302	++++ 0.1286	0.1170	0.1168	Ave		0.1226			5.2		30.0				
Tetrahydrofuran	++++ 0.3308	++++ 0.3297	++++ 0.3084	0.3299	0.3585	Ave		0.3315			5.4		30.0				
Chloroform	++++ 2.8827	2.8482 2.9279	3.7206 2.7881	2.9767	2.8310	Ave		2.9965			10.9		30.0				
Cyclohexane	++++ 0.3686	0.2946 0.3914	0.3857 0.3852	0.3503	0.3692	Ave		0.3636			9.2		30.0				
1,1,1-Trichloroethane	++++ 0.5798	0.6206 0.6033	0.7193 0.5826	0.5797	0.5733	Ave		0.6084			8.5		30.0				
Carbon tetrachloride	0.4941 0.5845	0.5721 0.6113	0.7356 0.5701	0.5889	0.5822	Ave		0.5924			11.3		30.0				
2,2,4-Trimethylpentane	++++ 1.4186	1.0882 1.4665	1.4970 1.3838	1.3801	1.4435	Ave		1.3825			9.9		30.0				
Benzene	++++ 0.8623	0.8644 0.8967	1.1050 0.8630	0.8726	0.8696	Ave		0.9048			9.8		30.0				
1,2-Dichloroethane	0.2179 0.3576	0.3368 0.3659	0.4361 0.3455	0.3705	0.3600	Ave		0.3488			17.4		30.0				
n-Heptane	++++ 0.5449	0.3949 0.5534	0.5375 0.5150	0.5421	0.5695	Ave		0.5225			11.2		30.0				
n-Butanol	++++ 0.1832	++++ 0.1906	++++ 0.1765	0.1771	0.1874	Ave		0.1830			3.4		30.0				
Trichloroethene	0.2555 0.3679	0.3625 0.3867	0.4498 0.3808	0.3613	0.3650	Ave		0.3662			14.6		30.0				
1,2-Dichloropropane	++++ 0.3334	0.3350 0.3431	0.4103 0.3279	0.3377	0.3362	Ave		0.3462			8.3		30.0				
Methyl methacrylate	++++ 0.3154	++++ 0.3331	++++ 0.2623 0.3254	0.2876	0.3186	Ave		0.3071			8.7		30.0				
1,4-Dioxane	++++ 0.1735	++++ 0.1807	++++ 0.1672	0.1762	0.1685	Ave		0.1732			3.2		30.0				
Dibromomethane	++++ 0.3448	0.3057 0.3723	0.3959 0.3765	0.3329	0.3405	Ave		0.3527			8.7		30.0				
Bromodichloromethane	++++ 0.6151	0.5940 0.6398	0.7277 0.6090	0.6200	0.6279	Ave		0.6333			7.0		30.0				
cis-1,3-Dichloropropene	++++ 0.4831	0.3274 0.5111	0.4410 0.5034	0.4337	0.4502	Ave		0.4500			13.8		30.0				
methyl isobutyl ketone	++++ 0.7234	++++ 0.7279	0.6861 0.6794	0.7253	0.7428	Ave		0.7141			3.6		30.0				
Toluene	++++ 0.6730	0.5065 0.7010	0.7093 0.6914	0.6654	0.6790	Ave		0.6608			10.6		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.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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-Octane	++++ 0.7990	0.5023 0.7984	0.7370 0.7294	0.8044	0.8371	Ave		0.7439			15.2		30.0				
trans-1,3-Dichloropropene	++++ 0.4353	0.3251 0.4603	0.3991 0.4494	0.3885	0.4444	Ave		0.4146			11.5		30.0				
1,1,2-Trichloroethane	++++ 0.3369	0.2982 0.3459	0.3962 0.3368	0.3407	0.3471	Ave		0.3431			8.4		30.0				
Tetrachloroethene	0.3289 0.5784	0.5594 0.6038	0.6825 0.6012	0.5663	0.5764	Ave		0.5621			18.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.7073	++++ 0.7130	0.6207 0.6745	0.6755	0.7163	Ave		0.6846			5.3		30.0				
Dibromochloromethane	++++ 0.6937	0.6178 0.7226	0.7306 0.6900	0.6602	0.6709	Ave		0.6880			6.6		30.0				
1,2-Dibromoethane	++++ 0.5797	0.4869 0.6056	0.5957 0.6009	0.5424	0.5732	Ave		0.5692			7.4		30.0				
Chlorobenzene	++++ 0.8771	0.8425 0.9100	1.0550 0.8832	0.8717	0.8719	Ave		0.9016			7.8		30.0				
Ethylbenzene	++++ 1.5127	1.1983 1.5541	1.5297 1.4821	1.4627	1.5120	Ave		1.4645			8.3		30.0				
n-Nonane	++++ 0.7909	0.5326 0.7985	0.7518 0.7550	0.7854	0.7975	Ave		0.7445			12.8		30.0				
m,p-Xylene	++++ 0.6016	0.4158 0.6224	0.5888 0.6088	0.5799	0.6046	Ave		0.5745			12.4		30.0				
Xylene, o-	++++ 0.5694	0.3712 0.5956	0.5017 0.5800	0.5435	0.5789	Ave		0.5343			14.7		30.0				
Styrene	++++ 0.9261	0.4482 0.9636	0.7107 0.9460	0.8515	0.8918	Ave		0.8197			22.5		30.0				
Bromoform	++++ 0.7504	0.5311 0.7787	0.6759 0.6987	0.6687	0.7044	Ave		0.6868			11.5		30.0				
Cumene	++++ 1.7361	1.0688 1.7711	1.5224 1.6704	1.6741	1.7280	Ave		1.5959			15.4		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.9372	0.8666 0.9448	1.1020 0.8908	0.9452	0.9717	Ave		0.9512			7.9		30.0				
n-Propylbenzene	++++ 2.1382	1.3844 2.1548	1.9966 1.9975	2.0936	2.1598	Ave		1.9893			13.9		30.0				
1,2,3-Trichloropropane	++++ 0.7289	++++ 0.7435	0.8739 0.7082	0.7407	0.7227	Ave		0.7530			8.1		30.0				
n-Decane	++++ 1.0681	++++ 1.0807	0.8940 1.0016	1.0617	1.0735	Ave		1.0299			7.0		30.0				
4-Ethyltoluene	++++ 1.7880	0.9799 1.8257	1.6499 1.7392	1.7532	1.8178	Ave		1.6505			18.3		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.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

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														
2-Chlorotoluene	++++ 1.4936	1.3586 1.5204	1.5930 1.4678	1.4624	1.5072	Ave		1.4861			4.8		30.0				
1,3,5-Trimethylbenzene	++++ 1.4715	1.0060 1.5069	1.4434 1.4234	1.4597	1.4969	Ave		1.4011			12.6		30.0				
Alpha Methyl Styrene	++++ 0.7589	0.3040 0.7947	0.5025 0.7779	0.6854	0.7226	Ave		0.6494			27.9		30.0				
tert-Butylbenzene	++++ 1.4401	0.9005 1.4699	1.3424 1.3814	1.4307	1.4497	Ave		1.3450			14.9		30.0				
1,2,4-Trimethylbenzene	++++ 1.4944	0.7515 1.5207	1.2656 1.4298	1.4584	1.5095	Ave		1.3471			20.5		30.0				
sec-Butylbenzene	++++ 2.2628	1.3523 2.2853	2.0449 2.0812	2.2412	2.2552	Ave		2.0747			16.0		30.0				
4-Isopropyltoluene	++++ 1.8925	0.9713 1.9272	1.4841 1.7822	1.8309	1.8446	Ave		1.6761			20.5		30.0				
1,3-Dichlorobenzene	++++ 1.0035	0.5012 1.0517	0.7866 1.0089	0.9495	0.9978	Ave		0.8999			21.7		30.0				
1,4-Dichlorobenzene	++++ 0.9500	0.5334 1.0041	0.7363 0.9869	0.8642	0.9346	Ave		0.8585			19.8		30.0				
Benzyl chloride	++++ 1.1359	0.4078 1.2395	0.6270 1.2012	0.9842	1.0966	Ave		0.9560			33.1	*	30.0				
n-Butylbenzene	++++ 1.8398	0.8228 1.8583	1.1609 1.7072	1.7118	1.7317	Ave		1.5475			25.6		30.0				
n-Undecane	++++ 1.0280	++++ 1.0633	++++ 0.9573	0.9842	0.9932	Ave		1.0052			4.1		30.0				
1,2-Dichlorobenzene	++++ 0.9634	0.5646 0.9916	0.8313 0.9539	0.9245	0.9394	Ave		0.8813			16.8		30.0				
n-Dodecane	++++ 0.7822	++++ 0.8508	++++ 0.8029	0.7248	0.6951	Ave		0.7711			8.1		30.0				
1,2,4-Trichlorobenzene	++++ 0.4592	++++ 0.5426	0.2509 0.5705	0.3459	0.3643	Ave		0.4222			29.3		30.0				
Hexachlorobutadiene	++++ 0.6587	0.5311 0.6945	0.7576 0.6877	0.6325	0.5852	Ave		0.6496			11.5		30.0				
Naphthalene	++++ 0.8313	++++ 1.0843	0.4158 1.1385	0.6253	0.5941	Ave		0.7816			36.9	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.3989	++++ 0.4718	0.2862 0.4761	0.3476	0.3075	Ave		0.3813			21.3		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.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-132926/4	31797-04.d
Level 2	IC 200-132926/5	31797-05.d
Level 3	IC 200-132926/6	31797-06.d
Level 4	IC 200-132926/7	31797-07.d
Level 5	ICIS 200-132926/8	31797-08.d
Level 6	IC 200-132926/9	31797-09.d
Level 7	IC 200-132926/10	31797-10.d
Level 8	IC 200-132926/11	31797-11.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Propylene	BCM	Ave	++++ 229081	++++ 335104	++++ 690029	63771	138500	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dichlorodifluoromethane	BCM	Ave	++++ 629173	++++ 942372	19148 1980898	170783	394190	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Freon 22	BCM	Ave	++++ 387457	++++ 575969	12658 1191607	109340	244610	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2-Dichlorotetrafluoroethane	BCM	Ave	567 678166	6769 1018346	19960 2158127	184446	454360	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloromethane	BCM	Ave	++++ 242689	++++ 357828	7990 740620	67774	146273	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Butane	BCM	Ave	++++ 439449	++++ 655562	14741 1359460	121381	283751	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Vinyl chloride	BCM	Ave	296 282171	2644 425659	8091 894131	75350	172859	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Butadiene	BCM	Ave	119 215303	1906 325794	5646 686730	58034	135622	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromomethane	BCM	Ave	++++ 225216	2545 345434	7407 754787	63734	140007	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Chloroethane	BCM	Ave	++++ 137625	++++ 208781	4325 452875	39800	87113	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Isopentane	BCM	Ave	++++ 331254	3842 498646	10377 1049139	96032	215321	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 210584	2065 335454	5982 743730	57502	137065	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Trichlorofluoromethane	BCM	Ave	++++ 566947	6470 881910	18260 1909630	165308	362361	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Pentane	BCM	Ave	++++ 498626	++++ 753456	15902 1591384	141773	322514	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Ethanol	BCM	Ave	++++ 167020	++++ 362281	42724 862523	77920	149371	++++ 20.0	++++ 40.0	5.01 100.0	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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	
Ethyl ether	BCM	Ave	++++ 174248	1327 273583	4781 594977	48999	117148	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acrolein	BCM	Ave	++++ 87859	++++ 139842	++++ 299871	24649	54712	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Freon TF	BCM	Ave	++++ 516034	5644 823641	16427 1811645	149408	285522	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethene	BCM	Ave	190 242823	2216 387669	6343 852618	67322	134660	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Acetone	BCM	Ave	++++ 384932	++++ 585817	++++ 1222345	127127	247929	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Carbon disulfide	BCM	Ave	++++ 687331	++++ 1092029	++++ 21255 2373966	202442	432235	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Isopropyl alcohol	BCM	Ave	++++ 422887	++++ 644593	++++ 1297823	129228	251887	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
3-Chloropropene	BCM	Ave	++++ 317272	++++ 483871	2856 1007982	8079	76484	187215	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Acetonitrile	BCM	Ave	++++ 168129	++++ 261638	++++ 566277	47460	110481	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methylene Chloride	BCM	Ave	++++ 293627	++++ 446073	++++ 10799 951275	88340	172248	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
tert-Butyl alcohol	BCM	Ave	++++ 503574	++++ 793069	++++ 1643925	142752	316870	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Methyl tert-butyl ether	BCM	Ave	++++ 701312	++++ 1117268	5515 17616 2432364	189832	422856	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
trans-1,2-Dichloroethene	BCM	Ave	++++ 348287	++++ 549843	++++ 3909 1199895	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Acrylonitrile	BCM	Ave	++++ 161348	++++ 256918	++++ 573972	3909	44591	100289	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
n-Hexane	BCM	Ave	++++ 413422	++++ 3404 643604	10657 1400263	113942	258023	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1-Dichloroethane	BCM	Ave	668 460942	5348 721082	14905 1543449	134488	286961	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Vinyl acetate	BCM	Ave	++++ 640076	++++ 1015068	13289 2190326	169281	390327	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
cis-1,2-Dichloroethene	BCM	Ave	160 250749	2374 404053	6738 915622	68626	149030	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Methyl Ethyl Ketone	BCM	Ave	++++ 130605	++++ 207286	++++ 3518 465374	35997	79074	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
Ethyl acetate	BCM	Ave	++++ 21663	++++ 36137	++++ 81707	5988	12951	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00	
Tetrahydrofuran	DFBZ	Ave	++++ 303981	++++ 457752	++++ 977217	87053	201059	++++ 15.0	++++ 20.0	++++ 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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chloroform	BCM	Ave	++++ 519124	5512 812567	16713 1771953	152398	313936	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Cyclohexane	DFBZ	Ave	++++ 338659	2861 543389	8752 1220355	92448	207091	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,1-Trichloroethane	DFBZ	Ave	++++ 532749	6027 837639	16321 1845623	152974	321515	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Carbon tetrachloride	DFBZ	Ave	814 537087	5556 848776	16691 1806258	155416	326541	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
2,2,4-Trimethylpentane	DFBZ	Ave	++++ 1303438	10569 2036083	33966 4383950	364201	809570	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzene	DFBZ	Ave	++++ 792281	8395 1244933	25071 2734241	230283	487727	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloroethane	DFBZ	Ave	359 328527	3271 508017	9894 1094664	97779	201898	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Heptane	DFBZ	Ave	++++ 500617	3835 768347	12196 1631660	143058	319384	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butanol	DFBZ	Ave	++++ 168312	++++ 264629	++++ 559265	46746	105126	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Trichloroethene	DFBZ	Ave	421 338005	3521 536864	10205 1206565	95352	204695	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,2-Dichloropropane	DFBZ	Ave	++++ 306308	3254 476382	9309 1038944	89132	188556	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Methyl methacrylate	DFBZ	Ave	++++ 289766	++++ 462464	5951 1030816	75891	178695	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,4-Dioxane	DFBZ	Ave	++++ 159371	++++ 250917	++++ 529826	46512	94475	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
Dibromomethane	DFBZ	Ave	++++ 316837	2969 516873	8982 1192793	87852	190974	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Bromodichloromethane	DFBZ	Ave	++++ 565141	5769 888231	16511 1929257	163609	352152	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
cis-1,3-Dichloropropene	DFBZ	Ave	++++ 443842	3180 709590	10005 1594798	114446	252519	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
methyl isobutyl ketone	DFBZ	Ave	++++ 664639	++++ 1010644	15566 2152561	191400	416594	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Toluene	CBNZ d5	Ave	++++ 575303	4332 911894	14298 2054489	160317	355280	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Octane	DFBZ	Ave	++++ 734103	4878 1108548	16723 2310758	212276	469471	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
trans-1,3-Dichloropropene	DFBZ	Ave	++++ 399964	3157 639104	9055 1423769	102523	249237	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,1,2-Trichloroethane	CBNZ d5	Ave	++++ 288016	2550 449990	7986 1000684	82086	181629	++++ 15.0	0.200 20.0	0.500 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.: 200-45175-1

Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i

GC Column: RTX-624

ID: 0.32 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38

Calibration End Date: 08/16/2018 01:00

Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)					
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	
Tetrachloroethene	CBNZ d5	Ave	472 494454	4784 785431	13757 1786299	136429	301636	0.0351 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Methyl Butyl Ketone (2-Hexanone)	CBNZ d5	Ave	++++ 604631	++++ 927549	++++ 2004253	12512	162742	374802	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Dibromochloromethane	CBNZ d5	Ave	++++ 592982	5284 939917	15331 2050177	159064	351064	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,2-Dibromoethane	CBNZ d5	Ave	++++ 495526	4164 787799	12007 1785575	130680	299961	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Chlorobenzene	CBNZ d5	Ave	++++ 749791	7206 1183754	21265 2624429	210004	456227	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Ethylbenzene	CBNZ d5	Ave	++++ 1293154	10249 2021657	30835 4403857	352386	791165	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
n-Nonane	CBNZ d5	Ave	++++ 676117	4555 1038709	15155 2243494	189211	417329	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
m,p-Xylene	CBNZ d5	Ave	++++ 1028524	7112 1619205	23736 3618113	279423	632702	++++ 30.0	0.401 40.0	1.00 80.0	9.99	20.0	
Xylene, o-	CBNZ d5	Ave	++++ 486724	3175 774769	10113 1723350	130937	302915	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Styrene	CBNZ d5	Ave	++++ 791668	3833 1253520	14326 2810854	205152	466651	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Bromoform	CBNZ d5	Ave	++++ 641511	4542 1012907	13625 2076183	161107	368593	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Cumene	CBNZ d5	Ave	++++ 1484104	9141 2303914	30688 4963433	403334	904238	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,1,2,2-Tetrachloroethane	CBNZ d5	Ave	++++ 801211	7412 1229077	22214 2646811	227707	508484	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
n-Propylbenzene	CBNZ d5	Ave	++++ 1827875	11840 2802981	40245 5935490	504393	1130178	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,2,3-Trichloropropane	CBNZ d5	Ave	++++ 623101	++++ 967131	17616 2104294	178454	378183	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
n-Decane	CBNZ d5	Ave	++++ 913086	++++ 1405856	18020 2976041	255781	561742	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00	
4-Ethyltoluene	CBNZ d5	Ave	++++ 1528529	8381 2374846	33258 5167998	422372	951220	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
2-Chlorotoluene	CBNZ d5	Ave	++++ 1276835	11620 1977789	32110 4361512	352312	788674	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
1,3,5-Trimethylbenzene	CBNZ d5	Ave	++++ 1257942	8604 1960263	29094 4229571	351662	783282	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
Alpha Methyl Styrene	CBNZ d5	Ave	++++ 648755	2600 1033742	10129 2311552	165135	378138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00	
tert-Butylbenzene	CBNZ d5	Ave	++++ 1231088	7702 1912104	27059 4104582	344688	758579	++++ 15.0	0.200 20.0	0.500 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.: 200-45175-1 Analy Batch No.: 132926

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2018 18:38 Calibration End Date: 08/16/2018 01:00 Calibration ID: 39919

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,4-Trimethylbenzene	CBNZ d5	Ave	++++ 1277476	6427 1978223	25511 4248469	351346	789880	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
sec-Butylbenzene	CBNZ d5	Ave	++++ 1934375	11566 2972776	41219 6184064	539942	1180094	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
4-Isopropyltoluene	CBNZ d5	Ave	++++ 1617829	8307 2506935	29915 5295535	441105	965217	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,3-Dichlorobenzene	CBNZ d5	Ave	++++ 857866	4287 1368110	15856 2997986	228757	522107	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
1,4-Dichlorobenzene	CBNZ d5	Ave	++++ 812084	4562 1306110	14842 2932640	208199	489040	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Benzyl chloride	CBNZ d5	Ave	++++ 971036	3488 1612348	12639 3569163	237101	573804	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Butylbenzene	CBNZ d5	Ave	++++ 1572760	7037 2417337	23401 5072861	412398	906138	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Undecane	CBNZ d5	Ave	++++ 878815	++++ 1383209	++++ 2844677	237105	519723	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2-Dichlorobenzene	CBNZ d5	Ave	++++ 823592	4829 1289953	16757 2834408	222741	491548	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
n-Dodecane	CBNZ d5	Ave	++++ 668660	++++ 1106730	++++ 2385792	174613	363702	++++ 15.0	++++ 20.0	++++ 40.0	4.99	10.00
1,2,4-Trichlorobenzene	CBNZ d5	Ave	++++ 392593	++++ 705832	5057 1695136	83337	190617	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
Hexachlorobutadiene	CBNZ d5	Ave	++++ 563076	4542 903451	15272 2043487	152392	306198	++++ 15.0	0.200 20.0	0.500 40.0	4.99	10.00
Naphthalene	CBNZ d5	Ave	++++ 710625	++++ 1410519	8381 3383017	150653	310901	++++ 15.0	++++ 20.0	0.500 40.0	4.99	10.00
1,2,3-Trichlorobenzene	CBNZ d5	Ave	++++ 340978	++++ 613706	5769 1414632	83747	160899	++++ 15.0	++++ 20.0	0.500 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.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132849/14 Calibration Date: 08/14/2018 03:53  
 Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/14/2018 00:20  
 Lab File ID: 31773-14.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	0.2895	0.2604		8.99	10.0	-10.0	30.0
Dichlorodifluoromethane	Ave	1.400	1.345		9.61	10.0	-3.9	30.0
Freon 22	Ave	0.6058	0.5785		9.55	10.0	-4.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.630	1.684		10.3	10.0	3.3	30.0
Chloromethane	Ave	0.4060	0.3622		8.92	10.0	-10.8	30.0
n-Butane	Ave	0.6644	0.5985		9.01	10.0	-9.9	30.0
Vinyl chloride	Ave	0.5535	0.5394		9.74	10.0	-2.5	30.0
1,3-Butadiene	Ave	0.3878	0.3678		9.48	10.0	-5.1	30.0
Bromomethane	Ave	0.7817	0.7605		9.73	10.0	-2.7	30.0
Chloroethane	Ave	0.3586	0.3438		9.59	10.0	-4.1	30.0
Isopentane	Ave	0.6009	0.5751		9.57	10.0	-4.3	30.0
Bromoethene (Vinyl Bromide)	Ave	0.8449	0.8687		10.3	10.0	2.8	30.0
Trichlorofluoromethane	Ave	1.669	1.655		9.92	10.0	-0.8	30.0
n-Pentane	Ave	0.9764	0.9074		9.29	10.0	-7.1	30.0
Ethanol	Ave	0.2790	0.2323		12.5	15.0	-16.7	30.0
Ethyl ether	Ave	0.4430	0.4663		10.5	10.0	5.3	30.0
Acrolein	Ave	0.2393	0.2221		9.28	10.0	-7.2	30.0
Freon TF	Ave	1.842	1.602		8.69	10.0	-13.0	30.0
1,1-Dichloroethene	Ave	0.8699	0.7941		9.13	10.0	-8.7	30.0
Acetone	Ave	0.7230	0.6579		9.10	10.0	-9.0	30.0
Isopropyl alcohol	Ave	0.8694	0.7709		8.87	10.0	-11.3	30.0
Carbon disulfide	Ave	2.267	2.175		9.59	10.0	-4.0	30.0
3-Chloropropene	Ave	0.6094	0.4402		7.22	10.0	-27.8	30.0
Acetonitrile	Ave	0.3904	0.4183		10.7	10.0	7.2	30.0
Methylene Chloride	Ave	0.6448	0.5530		8.58	10.0	-14.2	30.0
tert-Butyl alcohol	Ave	1.311	1.230		9.38	10.0	-6.2	30.0
Methyl tert-butyl ether	Ave	2.055	1.955		9.51	10.0	-4.9	30.0
trans-1,2-Dichloroethene	Ave	0.9378	0.9097		9.70	10.0	-3.0	30.0
Acrylonitrile	Ave	0.4484	0.4360		9.72	10.0	-2.8	30.0
n-Hexane	Ave	1.201	1.039		8.65	10.0	-13.5	30.0
1,1-Dichloroethane	Ave	1.166	1.147		9.84	10.0	-1.6	30.0
Vinyl acetate	Ave	1.368	1.265		9.24	10.0	-7.5	30.0
Methyl Ethyl Ketone	Ave	0.4185	0.3901		9.32	10.0	-6.8	30.0
cis-1,2-Dichloroethene	Ave	0.9682	0.9079		9.38	10.0	-6.2	30.0
Ethyl acetate	Ave	0.0851	0.0797		9.36	10.0	-6.4	30.0
Tetrahydrofuran	Ave	0.1265	0.1246		9.84	10.0	-1.5	30.0
Chloroform	Ave	1.535	1.435		9.35	10.0	-6.5	30.0
1,1,1-Trichloroethane	Ave	0.3322	0.3176		9.56	10.0	-4.4	30.0
Cyclohexane	Ave	0.2558	0.2513		9.82	10.0	-1.8	30.0
Carbon tetrachloride	Ave	0.3432	0.3528		10.3	10.0	2.8	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132849/14 Calibration Date: 08/14/2018 03:53  
 Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/14/2018 00:20  
 Lab File ID: 31773-14.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	0.7247	0.6900		9.52	10.0	-4.8	30.0
Benzene	Ave	0.5716	0.5270		9.22	10.0	-7.8	30.0
1,2-Dichloroethane	Ave	0.1538	0.1472		9.57	10.0	-4.3	30.0
n-Heptane	Ave	0.2205	0.2072		9.39	10.0	-6.0	30.0
n-Butanol	Ave	0.1027	0.0989		9.63	10.0	-3.7	30.0
Trichloroethene	Ave	0.2527	0.2464		9.75	10.0	-2.5	30.0
1,2-Dichloropropane	Ave	0.1779	0.1717		9.65	10.0	-3.5	30.0
Methyl methacrylate	Ave	0.1834	0.1811		9.87	10.0	-1.3	30.0
1,4-Dioxane	Ave	0.1281	0.1155		9.02	10.0	-9.8	30.0
Dibromomethane	Ave	0.3272	0.3232		9.88	10.0	-1.2	30.0
Bromodichloromethane	Ave	0.3437	0.3386		9.85	10.0	-1.5	30.0
cis-1,3-Dichloropropene	Ave	0.3031	0.2828		9.33	10.0	-6.7	30.0
methyl isobutyl ketone	Ave	0.2692	0.2492		9.26	10.0	-7.4	30.0
n-Octane	Ave	0.2966	0.2878		9.70	10.0	-3.0	30.0
Toluene	Ave	0.5142	0.5118		9.95	10.0	-0.5	30.0
trans-1,3-Dichloropropene	Ave	0.2601	0.2675		10.3	10.0	2.9	30.0
1,1,2-Trichloroethane	Ave	0.2259	0.2308		10.2	10.0	2.2	30.0
Tetrachloroethene	Ave	0.5381	0.5546		10.3	10.0	3.1	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2973	0.2790		9.38	10.0	-6.2	30.0
Dibromochloromethane	Ave	0.5390	0.5424		10.1	10.0	0.6	30.0
1,2-Dibromoethane	Ave	0.4697	0.4839		10.3	10.0	3.0	30.0
Chlorobenzene	Ave	0.7534	0.7616		10.1	10.0	1.1	30.0
Ethylbenzene	Ave	1.084	1.071		9.87	10.0	-1.3	30.0
n-Nonane	Ave	0.3996	0.4011		10.0	10.0	0.4	30.0
m,p-Xylene	Ave	0.4629	0.4761		20.6	20.0	2.8	30.0
Xylene, o-	Ave	0.4562	0.4704		10.3	10.0	3.1	30.0
Styrene	Ave	0.7353	0.7411		10.1	10.0	0.8	30.0
Bromoform	Ave	0.5813	0.5891		10.1	10.0	1.3	30.0
Cumene	Ave	1.276	1.306		10.2	10.0	2.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5963	0.6180		10.4	10.0	3.6	30.0
n-Propylbenzene	Ave	1.393	1.444		10.4	10.0	3.7	30.0
1,2,3-Trichloropropane	Ave	0.4207	0.4142		9.84	10.0	-1.6	30.0
n-Decane	Ave	0.5025	0.5039		10.0	10.0	0.3	30.0
4-Ethyltoluene	Ave	1.263	1.350		10.7	10.0	6.8	30.0
2-Chlorotoluene	Ave	0.9456	0.9751		10.3	10.0	3.1	30.0
1,3,5-Trimethylbenzene	Ave	1.032	1.074		10.4	10.0	4.1	30.0
Alpha Methyl Styrene	Ave	0.6026	0.6148		10.2	10.0	2.0	30.0
tert-Butylbenzene	Ave	1.057	1.099		10.4	10.0	4.0	30.0
1,2,4-Trimethylbenzene	Ave	1.023	1.077		10.5	10.0	5.3	30.0
sec-Butylbenzene	Ave	1.567	1.587		10.1	10.0	1.3	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132849/14 Calibration Date: 08/14/2018 03:53  
 Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/14/2018 00:20  
 Lab File ID: 31773-14.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	1.388	1.376		9.91	10.0	-0.9	30.0
1,3-Dichlorobenzene	Ave	0.8628	0.9054		10.5	10.0	4.9	30.0
1,4-Dichlorobenzene	Ave	0.8615	0.8962		10.4	10.0	4.0	30.0
Benzyl chloride	Ave	0.8221	0.7976		9.70	10.0	-3.0	30.0
n-Undecane	Ave	0.5548	0.5747		10.4	10.0	3.6	30.0
n-Butylbenzene	Ave	1.140	1.079		9.46	10.0	-5.4	30.0
1,2-Dichlorobenzene	Ave	0.8203	0.8456		10.3	10.0	3.1	30.0
n-Dodecane	Ave	0.4575	0.5121		11.2	10.0	11.9	30.0
1,2,4-Trichlorobenzene	Ave	0.6912	0.7882		11.4	10.0	14.0	30.0
Hexachlorobutadiene	Ave	0.6649	0.7166		10.8	10.0	7.8	30.0
Naphthalene	Ave	1.293	1.432		11.1	10.0	10.8	30.0
1,2,3-Trichlorobenzene	Ave	0.6069	0.7122		11.7	10.0	17.3	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133106/3 Calibration Date: 08/21/2018 11:14  
 Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/14/2018 00:20  
 Lab File ID: 31846-03.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	0.2895	0.2746		9.49	10.0	-5.1	30.0
Dichlorodifluoromethane	Ave	1.400	1.356		9.69	10.0	-3.1	30.0
Freon 22	Ave	0.6058	0.6126		10.1	10.0	1.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.630	1.735		10.6	10.0	6.5	30.0
Chloromethane	Ave	0.4060	0.3881		9.56	10.0	-4.4	30.0
n-Butane	Ave	0.6644	0.6376		9.60	10.0	-4.0	30.0
Vinyl chloride	Ave	0.5535	0.5713		10.3	10.0	3.2	30.0
1,3-Butadiene	Ave	0.3878	0.3894		10.0	10.0	0.4	30.0
Bromomethane	Ave	0.7817	0.7642		9.77	10.0	-2.2	30.0
Chloroethane	Ave	0.3586	0.3578		9.98	10.0	-0.2	30.0
Isopentane	Ave	0.6009	0.6220		10.3	10.0	3.5	30.0
Bromoethene (Vinyl Bromide)	Ave	0.8449	0.8632		10.2	10.0	2.2	30.0
Trichlorofluoromethane	Ave	1.669	1.692		10.1	10.0	1.4	30.0
n-Pentane	Ave	0.9764	0.9772		10.0	10.0	0.0	30.0
Ethanol	Ave	0.2790	0.2675		14.4	15.0	-4.1	30.0
Ethyl ether	Ave	0.4430	0.4884		11.0	10.0	10.2	30.0
Acrolein	Ave	0.2393	0.2169		9.06	10.0	-9.4	30.0
Freon TF	Ave	1.842	1.598		8.67	10.0	-13.3	30.0
1,1-Dichloroethene	Ave	0.8699	0.7872		9.05	10.0	-9.5	30.0
Acetone	Ave	0.7230	0.7296		10.1	10.0	0.9	30.0
Isopropyl alcohol	Ave	0.8694	0.7950		9.14	10.0	-8.6	30.0
Carbon disulfide	Ave	2.267	2.225		9.81	10.0	-1.8	30.0
3-Chloropropene	Ave	0.6094	0.4865		7.98	10.0	-20.2	30.0
Acetonitrile	Ave	0.3904	0.4559		11.7	10.0	16.8	30.0
Methylene Chloride	Ave	0.6448	0.5905		9.16	10.0	-8.4	30.0
tert-Butyl alcohol	Ave	1.311	1.274		9.72	10.0	-2.8	30.0
Methyl tert-butyl ether	Ave	2.055	1.986		9.66	10.0	-3.3	30.0
trans-1,2-Dichloroethene	Ave	0.9378	0.9532		10.2	10.0	1.6	30.0
Acrylonitrile	Ave	0.4484	0.4633		10.3	10.0	3.3	30.0
n-Hexane	Ave	1.201	1.083		9.01	10.0	-9.8	30.0
1,1-Dichloroethane	Ave	1.166	1.202		10.3	10.0	3.1	30.0
Vinyl acetate	Ave	1.368	1.342		9.81	10.0	-1.9	30.0
Methyl Ethyl Ketone	Ave	0.4185	0.4060		9.70	10.0	-3.0	30.0
cis-1,2-Dichloroethene	Ave	0.9682	0.9113		9.34	10.0	-5.9	30.0
Ethyl acetate	Ave	0.0851	0.0785		9.22	10.0	-7.8	30.0
Tetrahydrofuran	Ave	0.1265	0.1363		10.8	10.0	7.7	30.0
Chloroform	Ave	1.535	1.473		9.59	10.0	-4.1	30.0
1,1,1-Trichloroethane	Ave	0.3322	0.3262		9.82	10.0	-1.8	30.0
Cyclohexane	Ave	0.2558	0.2529		9.88	10.0	-1.1	30.0
Carbon tetrachloride	Ave	0.3432	0.3551		10.3	10.0	3.5	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133106/3 Calibration Date: 08/21/2018 11:14  
 Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/14/2018 00:20  
 Lab File ID: 31846-03.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
2,2,4-Trimethylpentane	Ave	0.7247	0.7243		9.99	10.0	-0.0	30.0
Benzene	Ave	0.5716	0.5398		9.44	10.0	-5.6	30.0
1,2-Dichloroethane	Ave	0.1538	0.1564		10.2	10.0	1.7	30.0
n-Heptane	Ave	0.2205	0.2239		10.2	10.0	1.5	30.0
n-Butanol	Ave	0.1027	0.1016		9.89	10.0	-1.1	30.0
Trichloroethene	Ave	0.2527	0.2679		10.6	10.0	6.0	30.0
1,2-Dichloropropane	Ave	0.1779	0.1784		10.0	10.0	0.3	30.0
Methyl methacrylate	Ave	0.1834	0.1861		10.1	10.0	1.5	30.0
1,4-Dioxane	Ave	0.1281	0.1220		9.52	10.0	-4.8	30.0
Dibromomethane	Ave	0.3272	0.3116		9.52	10.0	-4.8	30.0
Bromodichloromethane	Ave	0.3437	0.3488		10.1	10.0	1.5	30.0
cis-1,3-Dichloropropene	Ave	0.3031	0.2917		9.62	10.0	-3.8	30.0
methyl isobutyl ketone	Ave	0.2692	0.2723		10.1	10.0	1.2	30.0
n-Octane	Ave	0.2966	0.3121		10.5	10.0	5.2	30.0
Toluene	Ave	0.5142	0.4969		9.66	10.0	-3.4	30.0
trans-1,3-Dichloropropene	Ave	0.2601	0.2779		10.7	10.0	6.8	30.0
1,1,2-Trichloroethane	Ave	0.2259	0.2268		10.0	10.0	0.4	30.0
Tetrachloroethene	Ave	0.5381	0.5248		9.75	10.0	-2.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2973	0.2980		10.0	10.0	0.2	30.0
Dibromochloromethane	Ave	0.5390	0.5118		9.49	10.0	-5.1	30.0
1,2-Dibromoethane	Ave	0.4697	0.4664		9.93	10.0	-0.7	30.0
Chlorobenzene	Ave	0.7534	0.7281		9.66	10.0	-3.4	30.0
Ethylbenzene	Ave	1.084	1.044		9.62	10.0	-3.7	30.0
n-Nonane	Ave	0.3996	0.4040		10.1	10.0	1.1	30.0
m,p-Xylene	Ave	0.4629	0.4591		19.8	20.0	-0.8	30.0
Xylene, o-	Ave	0.4562	0.4472		9.80	10.0	-2.0	30.0
Styrene	Ave	0.7353	0.7070		9.61	10.0	-3.8	30.0
Bromoform	Ave	0.5813	0.5138		8.84	10.0	-11.6	30.0
Cumene	Ave	1.276	1.248		9.78	10.0	-2.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5963	0.5584		9.36	10.0	-6.3	30.0
n-Propylbenzene	Ave	1.393	1.415		10.2	10.0	1.5	30.0
1,2,3-Trichloropropane	Ave	0.4207	0.4139		9.84	10.0	-1.6	30.0
n-Decane	Ave	0.5025	0.5058		10.1	10.0	0.7	30.0
4-Ethyltoluene	Ave	1.263	1.293		10.2	10.0	2.3	30.0
2-Chlorotoluene	Ave	0.9456	0.9352		9.89	10.0	-1.1	30.0
1,3,5-Trimethylbenzene	Ave	1.032	1.037		10.1	10.0	0.6	30.0
Alpha Methyl Styrene	Ave	0.6026	0.5844		9.70	10.0	-3.0	30.0
tert-Butylbenzene	Ave	1.057	1.054		9.97	10.0	-0.3	30.0
1,2,4-Trimethylbenzene	Ave	1.023	1.034		10.1	10.0	1.0	30.0
sec-Butylbenzene	Ave	1.567	1.533		9.78	10.0	-2.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-44895-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133106/3 Calibration Date: 08/21/2018 11:14  
 Instrument ID: CHB.i Calib Start Date: 08/13/2018 18:07  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/14/2018 00:20  
 Lab File ID: 31846-03.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
4-Isopropyltoluene	Ave	1.388	1.315		9.47	10.0	-5.3	30.0
1,3-Dichlorobenzene	Ave	0.8628	0.8531		9.88	10.0	-1.1	30.0
1,4-Dichlorobenzene	Ave	0.8615	0.8459		9.82	10.0	-1.8	30.0
Benzyl chloride	Ave	0.8221	0.7523		9.15	10.0	-8.5	30.0
n-Undecane	Ave	0.5548	0.5683		10.2	10.0	2.4	30.0
n-Butylbenzene	Ave	1.140	1.051		9.21	10.0	-7.9	30.0
1,2-Dichlorobenzene	Ave	0.8203	0.8016		9.77	10.0	-2.3	30.0
n-Dodecane	Ave	0.4575	0.4579		10.0	10.0	0.0	30.0
1,2,4-Trichlorobenzene	Ave	0.6912	0.6827		9.88	10.0	-1.2	30.0
Hexachlorobutadiene	Ave	0.6649	0.6610		9.94	10.0	-0.6	30.0
Naphthalene	Ave	1.293	1.199		9.27	10.0	-7.3	30.0
1,2,3-Trichlorobenzene	Ave	0.6069	0.6050		9.97	10.0	-0.3	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.212	1.148		9.47	10.0	-5.3	30.0
Dichlorodifluoromethane	Ave	3.527	3.409		9.66	10.0	-3.3	30.0
Freon 22	Ave	2.210	2.083		9.42	10.0	-5.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.930		11.1	10.0	11.3	30.0
Chloromethane	Ave	1.371	1.247		9.10	10.0	-9.0	30.0
n-Butane	Ave	2.525	2.333		9.23	10.0	-7.6	30.0
Vinyl chloride	Ave	1.453	1.455		10.0	10.0	0.1	30.0
1,3-Butadiene	Ave	1.052	1.141		10.8	10.0	8.4	30.0
Bromomethane	Ave	1.308	1.241		9.49	10.0	-5.1	30.0
Chloroethane	Ave	0.7925	0.7460		9.41	10.0	-5.9	30.0
Isopentane	Ave	1.914	1.771		9.25	10.0	-7.5	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.248		10.5	10.0	5.2	30.0
Trichlorofluoromethane	Ave	3.319	3.241		9.76	10.0	-2.3	30.0
n-Pentane	Ave	2.868	2.707		9.44	10.0	-5.6	30.0
Ethanol	Ave	0.7496	0.6706		13.4	15.0	-10.5	30.0
Ethyl ether	Ave	0.9504	1.052		11.1	10.0	10.7	30.0
Acrolein	Ave	0.4877	0.4028		8.26	10.0	-17.4	30.0
Freon TF	Ave	2.964	2.598		8.76	10.0	-12.4	30.0
1,1-Dichloroethene	Ave	1.220	1.241		10.2	10.0	1.6	30.0
Acetone	Ave	2.178	2.268		10.4	10.0	4.1	30.0
Carbon disulfide	Ave	4.012	3.895		9.71	10.0	-2.9	30.0
Isopropyl alcohol	Ave	2.302	2.176		9.45	10.0	-5.5	30.0
3-Chloropropene	Ave	1.650	1.442		8.74	10.0	-12.6	30.0
Acetonitrile	Ave	0.9381	0.9304		9.92	10.0	-0.8	30.0
Methylene Chloride	Ave	1.736	1.431		8.24	10.0	-17.6	30.0
tert-Butyl alcohol	Ave	2.777	2.868		10.3	10.0	3.3	30.0
Methyl tert-butyl ether	Ave	3.720	3.870		10.4	10.0	4.0	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.945		10.1	10.0	0.7	30.0
Acrylonitrile	Ave	0.8951	0.8856		9.89	10.0	-1.1	30.0
n-Hexane	Ave	2.215	2.270		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	2.620	2.520		9.62	10.0	-3.8	30.0
Vinyl acetate	Ave	3.407	3.266		9.58	10.0	-4.1	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.370		10.7	10.0	7.5	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7253		9.88	10.0	-1.2	30.0
Ethyl acetate	Ave	0.1226	0.1237		10.1	10.0	0.9	30.0
Tetrahydrofuran	Ave	0.3315	0.3294		9.93	10.0	-0.6	30.0
Chloroform	Ave	2.996	2.793		9.32	10.0	-6.8	30.0
Cyclohexane	Ave	0.3636	0.3781		10.4	10.0	4.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.5794		9.52	10.0	-4.8	30.0
Carbon tetrachloride	Ave	0.5924	0.5768		9.74	10.0	-2.6	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.383	1.405		10.2	10.0	1.6	30.0
Benzene	Ave	0.9048	0.8567		9.47	10.0	-5.3	30.0
1,2-Dichloroethane	Ave	0.3488	0.3497		10.0	10.0	0.3	30.0
n-Heptane	Ave	0.5225	0.5250		10.0	10.0	0.5	30.0
n-Butanol	Ave	0.1830	0.1983		10.8	10.0	8.4	30.0
Trichloroethene	Ave	0.3662	0.3734		10.2	10.0	2.0	30.0
1,2-Dichloropropane	Ave	0.3462	0.3287		9.49	10.0	-5.1	30.0
Methyl methacrylate	Ave	0.3071	0.3191		10.4	10.0	3.9	30.0
1,4-Dioxane	Ave	0.1732	0.1804		10.4	10.0	4.2	30.0
Dibromomethane	Ave	0.3527	0.3560		10.1	10.0	0.9	30.0
Bromodichloromethane	Ave	0.6333	0.6204		9.79	10.0	-2.1	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4532		10.1	10.0	0.7	30.0
methyl isobutyl ketone	Ave	0.7141	0.6782		9.50	10.0	-5.0	30.0
n-Octane	Ave	0.7439	0.7604		10.2	10.0	2.2	30.0
Toluene	Ave	0.6608	0.6839		10.3	10.0	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4457		10.7	10.0	7.5	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3463		10.1	10.0	0.9	30.0
Tetrachloroethene	Ave	0.5621	0.6033		10.7	10.0	7.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.6754		9.86	10.0	-1.3	30.0
Dibromochloromethane	Ave	0.6880	0.6816		9.91	10.0	-0.9	30.0
1,2-Dibromoethane	Ave	0.5692	0.5877		10.3	10.0	3.2	30.0
Chlorobenzene	Ave	0.9016	0.8932		9.91	10.0	-0.9	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7751		10.4	10.0	4.1	30.0
m,p-Xylene	Ave	0.5745	0.6030		21.0	20.0	5.0	30.0
Xylene, o-	Ave	0.5343	0.5846		10.9	10.0	9.4	30.0
Styrene	Ave	0.8197	0.8833		10.8	10.0	7.8	30.0
Bromoform	Ave	0.6868	0.7195		10.5	10.0	4.8	30.0
Cumene	Ave	1.596	1.723		10.8	10.0	8.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9356		9.83	10.0	-1.6	30.0
n-Propylbenzene	Ave	1.989	2.122		10.7	10.0	6.7	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.6999		9.29	10.0	-7.1	30.0
n-Decane	Ave	1.030	1.012		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.651	1.792		10.9	10.0	8.5	30.0
2-Chlorotoluene	Ave	1.486	1.474		9.91	10.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.471		10.5	10.0	5.0	30.0
Alpha Methyl Styrene	Ave	0.6494	0.6932		10.7	10.0	6.7	30.0
tert-Butylbenzene	Ave	1.345	1.424		10.6	10.0	5.9	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.473		10.9	10.0	9.4	30.0
sec-Butylbenzene	Ave	2.075	2.193		10.6	10.0	5.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.676	1.813		10.8	10.0	8.2	30.0
1,3-Dichlorobenzene	Ave	0.8999	0.9868		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.8585	0.9307		10.8	10.0	8.4	30.0
Benzyl chloride	Ave	0.9560	1.006		10.5	10.0	5.2	30.0
n-Butylbenzene	Ave	1.547	1.673		10.8	10.0	8.1	30.0
n-Undecane	Ave	1.005	0.9481		9.43	10.0	-5.7	30.0
1,2-Dichlorobenzene	Ave	0.8813	0.9416		10.7	10.0	6.8	30.0
n-Dodecane	Ave	0.7711	0.6759		8.76	10.0	-12.4	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4337		10.3	10.0	2.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.6609		10.2	10.0	1.7	30.0
Naphthalene	Ave	0.7816	0.7331		9.38	10.0	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.3761		9.86	10.0	-1.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.212	1.380		11.4	10.0	13.9	30.0
Dichlorodifluoromethane	Ave	3.527	3.589		10.2	10.0	1.8	30.0
Freon 22	Ave	2.210	2.313		10.5	10.0	4.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.780		10.7	10.0	7.1	30.0
Chloromethane	Ave	1.371	1.426		10.4	10.0	4.0	30.0
n-Butane	Ave	2.525	2.512		9.95	10.0	-0.5	30.0
Vinyl chloride	Ave	1.453	1.503		10.3	10.0	3.5	30.0
1,3-Butadiene	Ave	1.052	1.186		11.3	10.0	12.7	30.0
Bromomethane	Ave	1.308	1.222		9.34	10.0	-6.6	30.0
Chloroethane	Ave	0.7925	0.7423		9.36	10.0	-6.3	30.0
Isopentane	Ave	1.914	1.878		9.81	10.0	-1.9	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.140		9.61	10.0	-3.9	30.0
Trichlorofluoromethane	Ave	3.319	3.329		10.0	10.0	0.3	30.0
n-Pentane	Ave	2.868	2.814		9.81	10.0	-1.9	30.0
Ethanol	Ave	0.7496	0.9127		18.3	15.0	21.8	30.0
Ethyl ether	Ave	0.9504	0.9343		9.83	10.0	-1.7	30.0
Acrolein	Ave	0.4877	0.4641		9.52	10.0	-4.8	30.0
Freon TF	Ave	2.964	2.896		9.77	10.0	-2.3	30.0
1,1-Dichloroethene	Ave	1.220	1.333		10.9	10.0	9.3	30.0
Acetone	Ave	2.178	2.274		10.4	10.0	4.4	30.0
Carbon disulfide	Ave	4.012	3.814		9.50	10.0	-4.9	30.0
Isopropyl alcohol	Ave	2.302	2.304		10.0	10.0	0.1	30.0
3-Chloropropene	Ave	1.650	1.512		9.17	10.0	-8.3	30.0
Acetonitrile	Ave	0.9381	1.000		10.7	10.0	6.6	30.0
Methylene Chloride	Ave	1.736	1.686		9.71	10.0	-2.9	30.0
tert-Butyl alcohol	Ave	2.777	2.731		9.83	10.0	-1.7	30.0
Methyl tert-butyl ether	Ave	3.720	3.851		10.3	10.0	3.5	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.930		9.99	10.0	-0.0	30.0
Acrylonitrile	Ave	0.8951	0.8810		9.84	10.0	-1.6	30.0
n-Hexane	Ave	2.215	2.240		10.1	10.0	1.1	30.0
1,1-Dichloroethane	Ave	2.620	2.622		10.0	10.0	0.0	30.0
Vinyl acetate	Ave	3.407	3.501		10.3	10.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.363		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7066		9.63	10.0	-3.7	30.0
Ethyl acetate	Ave	0.1226	0.1170		9.54	10.0	-4.5	30.0
Tetrahydrofuran	Ave	0.3315	0.3364		10.1	10.0	1.5	30.0
Chloroform	Ave	2.996	3.004		10.0	10.0	0.2	30.0
Cyclohexane	Ave	0.3636	0.3673		10.1	10.0	1.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.6364		10.5	10.0	4.6	30.0
Carbon tetrachloride	Ave	0.5924	0.6546		11.0	10.0	10.5	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.383	1.422		10.3	10.0	2.8	30.0
Benzene	Ave	0.9048	0.8830		9.76	10.0	-2.4	30.0
1,2-Dichloroethane	Ave	0.3488	0.3895		11.2	10.0	11.7	30.0
n-Heptane	Ave	0.5225	0.5561		10.6	10.0	6.4	30.0
n-Butanol	Ave	0.1830	0.1697		9.27	10.0	-7.3	30.0
Trichloroethene	Ave	0.3662	0.3779		10.3	10.0	3.2	30.0
1,2-Dichloropropane	Ave	0.3462	0.3374		9.74	10.0	-2.6	30.0
Methyl methacrylate	Ave	0.3071	0.3091		10.1	10.0	0.7	30.0
1,4-Dioxane	Ave	0.1732	0.1631		9.41	10.0	-5.9	30.0
Dibromomethane	Ave	0.3527	0.3690		10.5	10.0	4.6	30.0
Bromodichloromethane	Ave	0.6333	0.6572		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4820		10.7	10.0	7.1	30.0
methyl isobutyl ketone	Ave	0.7141	0.7600		10.6	10.0	6.4	30.0
n-Octane	Ave	0.7439	0.8372		11.3	10.0	12.5	30.0
Toluene	Ave	0.6608	0.6744		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4368		10.5	10.0	5.4	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3388		9.87	10.0	-1.3	30.0
Tetrachloroethene	Ave	0.5621	0.6103		10.9	10.0	8.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.7189		10.5	10.0	5.0	30.0
Dibromochloromethane	Ave	0.6880	0.7140		10.4	10.0	3.8	30.0
1,2-Dibromoethane	Ave	0.5692	0.5743		10.1	10.0	0.9	30.0
Chlorobenzene	Ave	0.9016	0.8913		9.88	10.0	-1.1	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7855		10.5	10.0	5.5	30.0
m,p-Xylene	Ave	0.5745	0.6174		21.5	20.0	7.5	30.0
Xylene, o-	Ave	0.5343	0.5767		10.8	10.0	7.9	30.0
Styrene	Ave	0.8197	0.9386		11.4	10.0	14.5	30.0
Bromoform	Ave	0.6868	0.7637		11.1	10.0	11.2	30.0
Cumene	Ave	1.596	1.789		11.2	10.0	12.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9612		10.1	10.0	1.0	30.0
n-Propylbenzene	Ave	1.989	2.220		11.2	10.0	11.6	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.7700		10.2	10.0	2.3	30.0
n-Decane	Ave	1.030	1.102		10.7	10.0	7.0	30.0
4-Ethyltoluene	Ave	1.651	1.880		11.4	10.0	13.9	30.0
2-Chlorotoluene	Ave	1.486	1.595		10.7	10.0	7.4	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.573		11.2	10.0	12.3	30.0
Alpha Methyl Styrene	Ave	0.6494	0.7930		12.2	10.0	22.1	30.0
tert-Butylbenzene	Ave	1.345	1.553		11.5	10.0	15.4	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.609		11.9	10.0	19.5	30.0
sec-Butylbenzene	Ave	2.075	2.450		11.8	10.0	18.1	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45152-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.676	2.054		12.3	10.0	22.6	30.0
1,3-Dichlorobenzene	Ave	0.8999	1.107		12.3	10.0	23.0	30.0
1,4-Dichlorobenzene	Ave	0.8585	1.038		12.1	10.0	20.9	30.0
Benzyl chloride	Ave	0.9560	1.232		12.9	10.0	28.9	30.0
n-Butylbenzene	Ave	1.547	1.992		12.9	10.0	28.7	30.0
n-Undecane	Ave	1.005	1.121		11.1	10.0	11.5	30.0
1,2-Dichlorobenzene	Ave	0.8813	1.069		12.1	10.0	21.3	30.0
n-Dodecane	Ave	0.7711	0.8687		11.3	10.0	12.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4757		11.3	10.0	12.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.7648		11.8	10.0	17.7	30.0
Naphthalene	Ave	0.7816	0.8567		11.0	10.0	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.4153		10.9	10.0	8.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.212	1.148		9.47	10.0	-5.3	30.0
Dichlorodifluoromethane	Ave	3.527	3.409		9.66	10.0	-3.3	30.0
Freon 22	Ave	2.210	2.083		9.42	10.0	-5.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.930		11.1	10.0	11.3	30.0
Chloromethane	Ave	1.371	1.247		9.10	10.0	-9.0	30.0
n-Butane	Ave	2.525	2.333		9.23	10.0	-7.6	30.0
Vinyl chloride	Ave	1.453	1.455		10.0	10.0	0.1	30.0
1,3-Butadiene	Ave	1.052	1.141		10.8	10.0	8.4	30.0
Bromomethane	Ave	1.308	1.241		9.49	10.0	-5.1	30.0
Chloroethane	Ave	0.7925	0.7460		9.41	10.0	-5.9	30.0
Isopentane	Ave	1.914	1.771		9.25	10.0	-7.5	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.248		10.5	10.0	5.2	30.0
Trichlorofluoromethane	Ave	3.319	3.241		9.76	10.0	-2.3	30.0
n-Pentane	Ave	2.868	2.707		9.44	10.0	-5.6	30.0
Ethanol	Ave	0.7496	0.6706		13.4	15.0	-10.5	30.0
Ethyl ether	Ave	0.9504	1.052		11.1	10.0	10.7	30.0
Acrolein	Ave	0.4877	0.4028		8.26	10.0	-17.4	30.0
Freon TF	Ave	2.964	2.598		8.76	10.0	-12.4	30.0
1,1-Dichloroethene	Ave	1.220	1.241		10.2	10.0	1.6	30.0
Acetone	Ave	2.178	2.268		10.4	10.0	4.1	30.0
Carbon disulfide	Ave	4.012	3.895		9.71	10.0	-2.9	30.0
Isopropyl alcohol	Ave	2.302	2.176		9.45	10.0	-5.5	30.0
3-Chloropropene	Ave	1.650	1.442		8.74	10.0	-12.6	30.0
Acetonitrile	Ave	0.9381	0.9304		9.92	10.0	-0.8	30.0
Methylene Chloride	Ave	1.736	1.431		8.24	10.0	-17.6	30.0
tert-Butyl alcohol	Ave	2.777	2.868		10.3	10.0	3.3	30.0
Methyl tert-butyl ether	Ave	3.720	3.870		10.4	10.0	4.0	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.945		10.1	10.0	0.7	30.0
Acrylonitrile	Ave	0.8951	0.8856		9.89	10.0	-1.1	30.0
n-Hexane	Ave	2.215	2.270		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	2.620	2.520		9.62	10.0	-3.8	30.0
Vinyl acetate	Ave	3.407	3.266		9.58	10.0	-4.1	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.370		10.7	10.0	7.5	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7253		9.88	10.0	-1.2	30.0
Ethyl acetate	Ave	0.1226	0.1237		10.1	10.0	0.9	30.0
Tetrahydrofuran	Ave	0.3315	0.3294		9.93	10.0	-0.6	30.0
Chloroform	Ave	2.996	2.793		9.32	10.0	-6.8	30.0
Cyclohexane	Ave	0.3636	0.3781		10.4	10.0	4.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.5794		9.52	10.0	-4.8	30.0
Carbon tetrachloride	Ave	0.5924	0.5768		9.74	10.0	-2.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.383	1.405		10.2	10.0	1.6	30.0
Benzene	Ave	0.9048	0.8567		9.47	10.0	-5.3	30.0
1,2-Dichloroethane	Ave	0.3488	0.3497		10.0	10.0	0.3	30.0
n-Heptane	Ave	0.5225	0.5250		10.0	10.0	0.5	30.0
n-Butanol	Ave	0.1830	0.1983		10.8	10.0	8.4	30.0
Trichloroethene	Ave	0.3662	0.3734		10.2	10.0	2.0	30.0
1,2-Dichloropropane	Ave	0.3462	0.3287		9.49	10.0	-5.1	30.0
Methyl methacrylate	Ave	0.3071	0.3191		10.4	10.0	3.9	30.0
1,4-Dioxane	Ave	0.1732	0.1804		10.4	10.0	4.2	30.0
Dibromomethane	Ave	0.3527	0.3560		10.1	10.0	0.9	30.0
Bromodichloromethane	Ave	0.6333	0.6204		9.79	10.0	-2.1	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4532		10.1	10.0	0.7	30.0
methyl isobutyl ketone	Ave	0.7141	0.6782		9.50	10.0	-5.0	30.0
n-Octane	Ave	0.7439	0.7604		10.2	10.0	2.2	30.0
Toluene	Ave	0.6608	0.6839		10.3	10.0	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4457		10.7	10.0	7.5	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3463		10.1	10.0	0.9	30.0
Tetrachloroethene	Ave	0.5621	0.6033		10.7	10.0	7.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.6754		9.86	10.0	-1.3	30.0
Dibromochloromethane	Ave	0.6880	0.6816		9.91	10.0	-0.9	30.0
1,2-Dibromoethane	Ave	0.5692	0.5877		10.3	10.0	3.2	30.0
Chlorobenzene	Ave	0.9016	0.8932		9.91	10.0	-0.9	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7751		10.4	10.0	4.1	30.0
m,p-Xylene	Ave	0.5745	0.6030		21.0	20.0	5.0	30.0
Xylene, o-	Ave	0.5343	0.5846		10.9	10.0	9.4	30.0
Styrene	Ave	0.8197	0.8833		10.8	10.0	7.8	30.0
Bromoform	Ave	0.6868	0.7195		10.5	10.0	4.8	30.0
Cumene	Ave	1.596	1.723		10.8	10.0	8.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9356		9.83	10.0	-1.6	30.0
n-Propylbenzene	Ave	1.989	2.122		10.7	10.0	6.7	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.6999		9.29	10.0	-7.1	30.0
n-Decane	Ave	1.030	1.012		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.651	1.792		10.9	10.0	8.5	30.0
2-Chlorotoluene	Ave	1.486	1.474		9.91	10.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.471		10.5	10.0	5.0	30.0
Alpha Methyl Styrene	Ave	0.6494	0.6932		10.7	10.0	6.7	30.0
tert-Butylbenzene	Ave	1.345	1.424		10.6	10.0	5.9	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.473		10.9	10.0	9.4	30.0
sec-Butylbenzene	Ave	2.075	2.193		10.6	10.0	5.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.676	1.813		10.8	10.0	8.2	30.0
1,3-Dichlorobenzene	Ave	0.8999	0.9868		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.8585	0.9307		10.8	10.0	8.4	30.0
Benzyl chloride	Ave	0.9560	1.006		10.5	10.0	5.2	30.0
n-Butylbenzene	Ave	1.547	1.673		10.8	10.0	8.1	30.0
n-Undecane	Ave	1.005	0.9481		9.43	10.0	-5.7	30.0
1,2-Dichlorobenzene	Ave	0.8813	0.9416		10.7	10.0	6.8	30.0
n-Dodecane	Ave	0.7711	0.6759		8.76	10.0	-12.4	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4337		10.3	10.0	2.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.6609		10.2	10.0	1.7	30.0
Naphthalene	Ave	0.7816	0.7331		9.38	10.0	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.3761		9.86	10.0	-1.4	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.212	1.380		11.4	10.0	13.9	30.0
Dichlorodifluoromethane	Ave	3.527	3.589		10.2	10.0	1.8	30.0
Freon 22	Ave	2.210	2.313		10.5	10.0	4.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.780		10.7	10.0	7.1	30.0
Chloromethane	Ave	1.371	1.426		10.4	10.0	4.0	30.0
n-Butane	Ave	2.525	2.512		9.95	10.0	-0.5	30.0
Vinyl chloride	Ave	1.453	1.503		10.3	10.0	3.5	30.0
1,3-Butadiene	Ave	1.052	1.186		11.3	10.0	12.7	30.0
Bromomethane	Ave	1.308	1.222		9.34	10.0	-6.6	30.0
Chloroethane	Ave	0.7925	0.7423		9.36	10.0	-6.3	30.0
Isopentane	Ave	1.914	1.878		9.81	10.0	-1.9	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.140		9.61	10.0	-3.9	30.0
Trichlorofluoromethane	Ave	3.319	3.329		10.0	10.0	0.3	30.0
n-Pentane	Ave	2.868	2.814		9.81	10.0	-1.9	30.0
Ethanol	Ave	0.7496	0.9127		18.3	15.0	21.8	30.0
Ethyl ether	Ave	0.9504	0.9343		9.83	10.0	-1.7	30.0
Acrolein	Ave	0.4877	0.4641		9.52	10.0	-4.8	30.0
Freon TF	Ave	2.964	2.896		9.77	10.0	-2.3	30.0
1,1-Dichloroethene	Ave	1.220	1.333		10.9	10.0	9.3	30.0
Acetone	Ave	2.178	2.274		10.4	10.0	4.4	30.0
Carbon disulfide	Ave	4.012	3.814		9.50	10.0	-4.9	30.0
Isopropyl alcohol	Ave	2.302	2.304		10.0	10.0	0.1	30.0
3-Chloropropene	Ave	1.650	1.512		9.17	10.0	-8.3	30.0
Acetonitrile	Ave	0.9381	1.000		10.7	10.0	6.6	30.0
Methylene Chloride	Ave	1.736	1.686		9.71	10.0	-2.9	30.0
tert-Butyl alcohol	Ave	2.777	2.731		9.83	10.0	-1.7	30.0
Methyl tert-butyl ether	Ave	3.720	3.851		10.3	10.0	3.5	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.930		9.99	10.0	-0.0	30.0
Acrylonitrile	Ave	0.8951	0.8810		9.84	10.0	-1.6	30.0
n-Hexane	Ave	2.215	2.240		10.1	10.0	1.1	30.0
1,1-Dichloroethane	Ave	2.620	2.622		10.0	10.0	0.0	30.0
Vinyl acetate	Ave	3.407	3.501		10.3	10.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.363		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7066		9.63	10.0	-3.7	30.0
Ethyl acetate	Ave	0.1226	0.1170		9.54	10.0	-4.5	30.0
Tetrahydrofuran	Ave	0.3315	0.3364		10.1	10.0	1.5	30.0
Chloroform	Ave	2.996	3.004		10.0	10.0	0.2	30.0
Cyclohexane	Ave	0.3636	0.3673		10.1	10.0	1.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.6364		10.5	10.0	4.6	30.0
Carbon tetrachloride	Ave	0.5924	0.6546		11.0	10.0	10.5	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.383	1.422		10.3	10.0	2.8	30.0
Benzene	Ave	0.9048	0.8830		9.76	10.0	-2.4	30.0
1,2-Dichloroethane	Ave	0.3488	0.3895		11.2	10.0	11.7	30.0
n-Heptane	Ave	0.5225	0.5561		10.6	10.0	6.4	30.0
n-Butanol	Ave	0.1830	0.1697		9.27	10.0	-7.3	30.0
Trichloroethene	Ave	0.3662	0.3779		10.3	10.0	3.2	30.0
1,2-Dichloropropane	Ave	0.3462	0.3374		9.74	10.0	-2.6	30.0
Methyl methacrylate	Ave	0.3071	0.3091		10.1	10.0	0.7	30.0
1,4-Dioxane	Ave	0.1732	0.1631		9.41	10.0	-5.9	30.0
Dibromomethane	Ave	0.3527	0.3690		10.5	10.0	4.6	30.0
Bromodichloromethane	Ave	0.6333	0.6572		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4820		10.7	10.0	7.1	30.0
methyl isobutyl ketone	Ave	0.7141	0.7600		10.6	10.0	6.4	30.0
n-Octane	Ave	0.7439	0.8372		11.3	10.0	12.5	30.0
Toluene	Ave	0.6608	0.6744		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4368		10.5	10.0	5.4	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3388		9.87	10.0	-1.3	30.0
Tetrachloroethene	Ave	0.5621	0.6103		10.9	10.0	8.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.7189		10.5	10.0	5.0	30.0
Dibromochloromethane	Ave	0.6880	0.7140		10.4	10.0	3.8	30.0
1,2-Dibromoethane	Ave	0.5692	0.5743		10.1	10.0	0.9	30.0
Chlorobenzene	Ave	0.9016	0.8913		9.88	10.0	-1.1	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7855		10.5	10.0	5.5	30.0
m,p-Xylene	Ave	0.5745	0.6174		21.5	20.0	7.5	30.0
Xylene, o-	Ave	0.5343	0.5767		10.8	10.0	7.9	30.0
Styrene	Ave	0.8197	0.9386		11.4	10.0	14.5	30.0
Bromoform	Ave	0.6868	0.7637		11.1	10.0	11.2	30.0
Cumene	Ave	1.596	1.789		11.2	10.0	12.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9612		10.1	10.0	1.0	30.0
n-Propylbenzene	Ave	1.989	2.220		11.2	10.0	11.6	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.7700		10.2	10.0	2.3	30.0
n-Decane	Ave	1.030	1.102		10.7	10.0	7.0	30.0
4-Ethyltoluene	Ave	1.651	1.880		11.4	10.0	13.9	30.0
2-Chlorotoluene	Ave	1.486	1.595		10.7	10.0	7.4	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.573		11.2	10.0	12.3	30.0
Alpha Methyl Styrene	Ave	0.6494	0.7930		12.2	10.0	22.1	30.0
tert-Butylbenzene	Ave	1.345	1.553		11.5	10.0	15.4	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.609		11.9	10.0	19.5	30.0
sec-Butylbenzene	Ave	2.075	2.450		11.8	10.0	18.1	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45174-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.676	2.054		12.3	10.0	22.6	30.0
1,3-Dichlorobenzene	Ave	0.8999	1.107		12.3	10.0	23.0	30.0
1,4-Dichlorobenzene	Ave	0.8585	1.038		12.1	10.0	20.9	30.0
Benzyl chloride	Ave	0.9560	1.232		12.9	10.0	28.9	30.0
n-Butylbenzene	Ave	1.547	1.992		12.9	10.0	28.7	30.0
n-Undecane	Ave	1.005	1.121		11.1	10.0	11.5	30.0
1,2-Dichlorobenzene	Ave	0.8813	1.069		12.1	10.0	21.3	30.0
n-Dodecane	Ave	0.7711	0.8687		11.3	10.0	12.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4757		11.3	10.0	12.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.7648		11.8	10.0	17.7	30.0
Naphthalene	Ave	0.7816	0.8567		11.0	10.0	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.4153		10.9	10.0	8.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.212	1.148		9.47	10.0	-5.3	30.0
Dichlorodifluoromethane	Ave	3.527	3.409		9.66	10.0	-3.3	30.0
Freon 22	Ave	2.210	2.083		9.42	10.0	-5.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.930		11.1	10.0	11.3	30.0
Chloromethane	Ave	1.371	1.247		9.10	10.0	-9.0	30.0
n-Butane	Ave	2.525	2.333		9.23	10.0	-7.6	30.0
Vinyl chloride	Ave	1.453	1.455		10.0	10.0	0.1	30.0
1,3-Butadiene	Ave	1.052	1.141		10.8	10.0	8.4	30.0
Bromomethane	Ave	1.308	1.241		9.49	10.0	-5.1	30.0
Chloroethane	Ave	0.7925	0.7460		9.41	10.0	-5.9	30.0
Isopentane	Ave	1.914	1.771		9.25	10.0	-7.5	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.248		10.5	10.0	5.2	30.0
Trichlorofluoromethane	Ave	3.319	3.241		9.76	10.0	-2.3	30.0
n-Pentane	Ave	2.868	2.707		9.44	10.0	-5.6	30.0
Ethanol	Ave	0.7496	0.6706		13.4	15.0	-10.5	30.0
Ethyl ether	Ave	0.9504	1.052		11.1	10.0	10.7	30.0
Acrolein	Ave	0.4877	0.4028		8.26	10.0	-17.4	30.0
Freon TF	Ave	2.964	2.598		8.76	10.0	-12.4	30.0
1,1-Dichloroethene	Ave	1.220	1.241		10.2	10.0	1.6	30.0
Acetone	Ave	2.178	2.268		10.4	10.0	4.1	30.0
Carbon disulfide	Ave	4.012	3.895		9.71	10.0	-2.9	30.0
Isopropyl alcohol	Ave	2.302	2.176		9.45	10.0	-5.5	30.0
3-Chloropropene	Ave	1.650	1.442		8.74	10.0	-12.6	30.0
Acetonitrile	Ave	0.9381	0.9304		9.92	10.0	-0.8	30.0
Methylene Chloride	Ave	1.736	1.431		8.24	10.0	-17.6	30.0
tert-Butyl alcohol	Ave	2.777	2.868		10.3	10.0	3.3	30.0
Methyl tert-butyl ether	Ave	3.720	3.870		10.4	10.0	4.0	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.945		10.1	10.0	0.7	30.0
Acrylonitrile	Ave	0.8951	0.8856		9.89	10.0	-1.1	30.0
n-Hexane	Ave	2.215	2.270		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	2.620	2.520		9.62	10.0	-3.8	30.0
Vinyl acetate	Ave	3.407	3.266		9.58	10.0	-4.1	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.370		10.7	10.0	7.5	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7253		9.88	10.0	-1.2	30.0
Ethyl acetate	Ave	0.1226	0.1237		10.1	10.0	0.9	30.0
Tetrahydrofuran	Ave	0.3315	0.3294		9.93	10.0	-0.6	30.0
Chloroform	Ave	2.996	2.793		9.32	10.0	-6.8	30.0
Cyclohexane	Ave	0.3636	0.3781		10.4	10.0	4.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.5794		9.52	10.0	-4.8	30.0
Carbon tetrachloride	Ave	0.5924	0.5768		9.74	10.0	-2.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.383	1.405		10.2	10.0	1.6	30.0
Benzene	Ave	0.9048	0.8567		9.47	10.0	-5.3	30.0
1,2-Dichloroethane	Ave	0.3488	0.3497		10.0	10.0	0.3	30.0
n-Heptane	Ave	0.5225	0.5250		10.0	10.0	0.5	30.0
n-Butanol	Ave	0.1830	0.1983		10.8	10.0	8.4	30.0
Trichloroethene	Ave	0.3662	0.3734		10.2	10.0	2.0	30.0
1,2-Dichloropropane	Ave	0.3462	0.3287		9.49	10.0	-5.1	30.0
Methyl methacrylate	Ave	0.3071	0.3191		10.4	10.0	3.9	30.0
1,4-Dioxane	Ave	0.1732	0.1804		10.4	10.0	4.2	30.0
Dibromomethane	Ave	0.3527	0.3560		10.1	10.0	0.9	30.0
Bromodichloromethane	Ave	0.6333	0.6204		9.79	10.0	-2.1	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4532		10.1	10.0	0.7	30.0
methyl isobutyl ketone	Ave	0.7141	0.6782		9.50	10.0	-5.0	30.0
n-Octane	Ave	0.7439	0.7604		10.2	10.0	2.2	30.0
Toluene	Ave	0.6608	0.6839		10.3	10.0	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4457		10.7	10.0	7.5	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3463		10.1	10.0	0.9	30.0
Tetrachloroethene	Ave	0.5621	0.6033		10.7	10.0	7.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.6754		9.86	10.0	-1.3	30.0
Dibromochloromethane	Ave	0.6880	0.6816		9.91	10.0	-0.9	30.0
1,2-Dibromoethane	Ave	0.5692	0.5877		10.3	10.0	3.2	30.0
Chlorobenzene	Ave	0.9016	0.8932		9.91	10.0	-0.9	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7751		10.4	10.0	4.1	30.0
m,p-Xylene	Ave	0.5745	0.6030		21.0	20.0	5.0	30.0
Xylene, o-	Ave	0.5343	0.5846		10.9	10.0	9.4	30.0
Styrene	Ave	0.8197	0.8833		10.8	10.0	7.8	30.0
Bromoform	Ave	0.6868	0.7195		10.5	10.0	4.8	30.0
Cumene	Ave	1.596	1.723		10.8	10.0	8.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9356		9.83	10.0	-1.6	30.0
n-Propylbenzene	Ave	1.989	2.122		10.7	10.0	6.7	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.6999		9.29	10.0	-7.1	30.0
n-Decane	Ave	1.030	1.012		9.82	10.0	-1.8	30.0
4-Ethyltoluene	Ave	1.651	1.792		10.9	10.0	8.5	30.0
2-Chlorotoluene	Ave	1.486	1.474		9.91	10.0	-0.8	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.471		10.5	10.0	5.0	30.0
Alpha Methyl Styrene	Ave	0.6494	0.6932		10.7	10.0	6.7	30.0
tert-Butylbenzene	Ave	1.345	1.424		10.6	10.0	5.9	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.473		10.9	10.0	9.4	30.0
sec-Butylbenzene	Ave	2.075	2.193		10.6	10.0	5.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-132926/14 Calibration Date: 08/16/2018 03:44  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 31797-14.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	1.676	1.813		10.8	10.0	8.2	30.0
1,3-Dichlorobenzene	Ave	0.8999	0.9868		11.0	10.0	9.7	30.0
1,4-Dichlorobenzene	Ave	0.8585	0.9307		10.8	10.0	8.4	30.0
Benzyl chloride	Ave	0.9560	1.006		10.5	10.0	5.2	30.0
n-Butylbenzene	Ave	1.547	1.673		10.8	10.0	8.1	30.0
n-Undecane	Ave	1.005	0.9481		9.43	10.0	-5.7	30.0
1,2-Dichlorobenzene	Ave	0.8813	0.9416		10.7	10.0	6.8	30.0
n-Dodecane	Ave	0.7711	0.6759		8.76	10.0	-12.4	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4337		10.3	10.0	2.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.6609		10.2	10.0	1.7	30.0
Naphthalene	Ave	0.7816	0.7331		9.38	10.0	-6.2	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.3761		9.86	10.0	-1.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.212	1.380		11.4	10.0	13.9	30.0
Dichlorodifluoromethane	Ave	3.527	3.589		10.2	10.0	1.8	30.0
Freon 22	Ave	2.210	2.313		10.5	10.0	4.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	3.529	3.780		10.7	10.0	7.1	30.0
Chloromethane	Ave	1.371	1.426		10.4	10.0	4.0	30.0
n-Butane	Ave	2.525	2.512		9.95	10.0	-0.5	30.0
Vinyl chloride	Ave	1.453	1.503		10.3	10.0	3.5	30.0
1,3-Butadiene	Ave	1.052	1.186		11.3	10.0	12.7	30.0
Bromomethane	Ave	1.308	1.222		9.34	10.0	-6.6	30.0
Chloroethane	Ave	0.7925	0.7423		9.36	10.0	-6.3	30.0
Isopentane	Ave	1.914	1.878		9.81	10.0	-1.9	30.0
Bromoethene (Vinyl Bromide)	Ave	1.187	1.140		9.61	10.0	-3.9	30.0
Trichlorofluoromethane	Ave	3.319	3.329		10.0	10.0	0.3	30.0
n-Pentane	Ave	2.868	2.814		9.81	10.0	-1.9	30.0
Ethanol	Ave	0.7496	0.9127		18.3	15.0	21.8	30.0
Ethyl ether	Ave	0.9504	0.9343		9.83	10.0	-1.7	30.0
Acrolein	Ave	0.4877	0.4641		9.52	10.0	-4.8	30.0
Freon TF	Ave	2.964	2.896		9.77	10.0	-2.3	30.0
1,1-Dichloroethene	Ave	1.220	1.333		10.9	10.0	9.3	30.0
Acetone	Ave	2.178	2.274		10.4	10.0	4.4	30.0
Carbon disulfide	Ave	4.012	3.814		9.50	10.0	-4.9	30.0
Isopropyl alcohol	Ave	2.302	2.304		10.0	10.0	0.1	30.0
3-Chloropropene	Ave	1.650	1.512		9.17	10.0	-8.3	30.0
Acetonitrile	Ave	0.9381	1.000		10.7	10.0	6.6	30.0
Methylene Chloride	Ave	1.736	1.686		9.71	10.0	-2.9	30.0
tert-Butyl alcohol	Ave	2.777	2.731		9.83	10.0	-1.7	30.0
Methyl tert-butyl ether	Ave	3.720	3.851		10.3	10.0	3.5	30.0
trans-1,2-Dichloroethene	Ave	1.931	1.930		9.99	10.0	-0.0	30.0
Acrylonitrile	Ave	0.8951	0.8810		9.84	10.0	-1.6	30.0
n-Hexane	Ave	2.215	2.240		10.1	10.0	1.1	30.0
1,1-Dichloroethane	Ave	2.620	2.622		10.0	10.0	0.0	30.0
Vinyl acetate	Ave	3.407	3.501		10.3	10.0	2.8	30.0
cis-1,2-Dichloroethene	Ave	1.275	1.363		10.7	10.0	6.9	30.0
Methyl Ethyl Ketone	Ave	0.7340	0.7066		9.63	10.0	-3.7	30.0
Ethyl acetate	Ave	0.1226	0.1170		9.54	10.0	-4.5	30.0
Tetrahydrofuran	Ave	0.3315	0.3364		10.1	10.0	1.5	30.0
Chloroform	Ave	2.996	3.004		10.0	10.0	0.2	30.0
Cyclohexane	Ave	0.3636	0.3673		10.1	10.0	1.0	30.0
1,1,1-Trichloroethane	Ave	0.6084	0.6364		10.5	10.0	4.6	30.0
Carbon tetrachloride	Ave	0.5924	0.6546		11.0	10.0	10.5	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.383	1.422		10.3	10.0	2.8	30.0
Benzene	Ave	0.9048	0.8830		9.76	10.0	-2.4	30.0
1,2-Dichloroethane	Ave	0.3488	0.3895		11.2	10.0	11.7	30.0
n-Heptane	Ave	0.5225	0.5561		10.6	10.0	6.4	30.0
n-Butanol	Ave	0.1830	0.1697		9.27	10.0	-7.3	30.0
Trichloroethene	Ave	0.3662	0.3779		10.3	10.0	3.2	30.0
1,2-Dichloropropane	Ave	0.3462	0.3374		9.74	10.0	-2.6	30.0
Methyl methacrylate	Ave	0.3071	0.3091		10.1	10.0	0.7	30.0
1,4-Dioxane	Ave	0.1732	0.1631		9.41	10.0	-5.9	30.0
Dibromomethane	Ave	0.3527	0.3690		10.5	10.0	4.6	30.0
Bromodichloromethane	Ave	0.6333	0.6572		10.4	10.0	3.8	30.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4820		10.7	10.0	7.1	30.0
methyl isobutyl ketone	Ave	0.7141	0.7600		10.6	10.0	6.4	30.0
n-Octane	Ave	0.7439	0.8372		11.3	10.0	12.5	30.0
Toluene	Ave	0.6608	0.6744		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.4146	0.4368		10.5	10.0	5.4	30.0
1,1,2-Trichloroethane	Ave	0.3431	0.3388		9.87	10.0	-1.3	30.0
Tetrachloroethene	Ave	0.5621	0.6103		10.9	10.0	8.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.6846	0.7189		10.5	10.0	5.0	30.0
Dibromochloromethane	Ave	0.6880	0.7140		10.4	10.0	3.8	30.0
1,2-Dibromoethane	Ave	0.5692	0.5743		10.1	10.0	0.9	30.0
Chlorobenzene	Ave	0.9016	0.8913		9.88	10.0	-1.1	30.0
Ethylbenzene	Ave	1.465	1.518		10.4	10.0	3.7	30.0
n-Nonane	Ave	0.7445	0.7855		10.5	10.0	5.5	30.0
m,p-Xylene	Ave	0.5745	0.6174		21.5	20.0	7.5	30.0
Xylene, o-	Ave	0.5343	0.5767		10.8	10.0	7.9	30.0
Styrene	Ave	0.8197	0.9386		11.4	10.0	14.5	30.0
Bromoform	Ave	0.6868	0.7637		11.1	10.0	11.2	30.0
Cumene	Ave	1.596	1.789		11.2	10.0	12.1	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9512	0.9612		10.1	10.0	1.0	30.0
n-Propylbenzene	Ave	1.989	2.220		11.2	10.0	11.6	30.0
1,2,3-Trichloropropane	Ave	0.7530	0.7700		10.2	10.0	2.3	30.0
n-Decane	Ave	1.030	1.102		10.7	10.0	7.0	30.0
4-Ethyltoluene	Ave	1.651	1.880		11.4	10.0	13.9	30.0
2-Chlorotoluene	Ave	1.486	1.595		10.7	10.0	7.4	30.0
1,3,5-Trimethylbenzene	Ave	1.401	1.573		11.2	10.0	12.3	30.0
Alpha Methyl Styrene	Ave	0.6494	0.7930		12.2	10.0	22.1	30.0
tert-Butylbenzene	Ave	1.345	1.553		11.5	10.0	15.4	30.0
1,2,4-Trimethylbenzene	Ave	1.347	1.609		11.9	10.0	19.5	30.0
sec-Butylbenzene	Ave	2.075	2.450		11.8	10.0	18.1	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-45175-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-133921/2 Calibration Date: 09/11/2018 12:42  
 Instrument ID: CHW.i Calib Start Date: 08/15/2018 18:38  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2018 01:00  
 Lab File ID: 32143-02.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	1.676	2.054		12.3	10.0	22.6	30.0
1,3-Dichlorobenzene	Ave	0.8999	1.107		12.3	10.0	23.0	30.0
1,4-Dichlorobenzene	Ave	0.8585	1.038		12.1	10.0	20.9	30.0
Benzyl chloride	Ave	0.9560	1.232		12.9	10.0	28.9	30.0
n-Butylbenzene	Ave	1.547	1.992		12.9	10.0	28.7	30.0
n-Undecane	Ave	1.005	1.121		11.1	10.0	11.5	30.0
1,2-Dichlorobenzene	Ave	0.8813	1.069		12.1	10.0	21.3	30.0
n-Dodecane	Ave	0.7711	0.8687		11.3	10.0	12.7	30.0
1,2,4-Trichlorobenzene	Ave	0.4222	0.4757		11.3	10.0	12.7	30.0
Hexachlorobutadiene	Ave	0.6496	0.7648		11.8	10.0	17.7	30.0
Naphthalene	Ave	0.7816	0.8567		11.0	10.0	9.6	30.0
1,2,3-Trichlorobenzene	Ave	0.3813	0.4153		10.9	10.0	8.9	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-44895-1

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i Start Date: 08/13/2018 16:24

Analysis Batch Number: 132849 End Date: 08/14/2018 05:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132849/1		08/13/2018 16:24	1	31773-01.D	RTX-624 0.32 (mm)
VIBLK 200-132849/2		08/13/2018 17:14	1		RTX-624 0.32 (mm)
IC 200-132849/3		08/13/2018 18:07	1	31773-03.D	RTX-624 0.32 (mm)
IC 200-132849/4		08/13/2018 19:00	1	31773-04.D	RTX-624 0.32 (mm)
IC 200-132849/5		08/13/2018 19:54	1	31773-05.D	RTX-624 0.32 (mm)
IC 200-132849/6		08/13/2018 20:47	1	31773-06.D	RTX-624 0.32 (mm)
ICIS 200-132849/7		08/13/2018 21:40	1	31773-07.D	RTX-624 0.32 (mm)
IC 200-132849/8		08/13/2018 22:34	1	31773-08.D	RTX-624 0.32 (mm)
IC 200-132849/9		08/13/2018 23:27	1	31773-09.D	RTX-624 0.32 (mm)
IC 200-132849/10		08/14/2018 00:20	1	31773-10.D	RTX-624 0.32 (mm)
VIBLK 200-132849/11		08/14/2018 01:14	1		RTX-624 0.32 (mm)
VIBLK 200-132849/12		08/14/2018 02:07	1		RTX-624 0.32 (mm)
VIBLK 200-132849/13		08/14/2018 03:00	1		RTX-624 0.32 (mm)
ICV 200-132849/14		08/14/2018 03:53	1	31773-14.D	RTX-624 0.32 (mm)
ZZZZZ		08/14/2018 04:46	1		RTX-624 0.32 (mm)
ZZZZZ		08/14/2018 05:39	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-44895-1

SDG No.: \_\_\_\_\_

Instrument ID: CHB.i Start Date: 08/21/2018 09:29

Analysis Batch Number: 133106 End Date: 08/22/2018 09:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-133106/1		08/21/2018 09:29	1	31846-01.D	RTX-624 0.32 (mm)
CCVIS 200-133106/3		08/21/2018 11:14	1	31846-03.D	RTX-624 0.32 (mm)
LCS 200-133106/4		08/21/2018 12:07	1	31846-04.D	RTX-624 0.32 (mm)
MB 200-133106/5		08/21/2018 13:00	1	31846-05.D	RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 13:54	10		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 14:47	10		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 15:40	10		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 16:34	2		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 17:27	1		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 18:20	3		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 19:13	3.73		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 20:07	1		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 21:00	1		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 21:54	1		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 22:47	1		RTX-624 0.32 (mm)
ZZZZZ		08/21/2018 23:40	10		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 00:34	1		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 01:27	1		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 02:30	0.2		RTX-624 0.32 (mm)
200-44895-2		08/22/2018 03:33	0.2	31846-21.D	RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 04:35	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 05:38	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 06:31	1		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 07:25	1		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 08:18	1		RTX-624 0.32 (mm)
ZZZZZ		08/22/2018 09:12	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45152-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 08/15/2018 15:42

Analysis Batch Number: 132926 End Date: 08/16/2018 05:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132926/1		08/15/2018 15:42	1	31797-01.d	RTX-624 0.32 (mm)
VIBLK 200-132926/2		08/15/2018 16:49	1		RTX-624 0.32 (mm)
VIBLK 200-132926/3		08/15/2018 17:45	1		RTX-624 0.32 (mm)
IC 200-132926/4		08/15/2018 18:38	1	31797-04.d	RTX-624 0.32 (mm)
IC 200-132926/5		08/15/2018 19:32	1	31797-05.d	RTX-624 0.32 (mm)
IC 200-132926/6		08/15/2018 20:27	1	31797-06.d	RTX-624 0.32 (mm)
IC 200-132926/7		08/15/2018 21:22	1	31797-07.d	RTX-624 0.32 (mm)
ICIS 200-132926/8		08/15/2018 22:17	1	31797-08.d	RTX-624 0.32 (mm)
IC 200-132926/9		08/15/2018 23:11	1	31797-09.d	RTX-624 0.32 (mm)
IC 200-132926/10		08/16/2018 00:06	1	31797-10.d	RTX-624 0.32 (mm)
IC 200-132926/11		08/16/2018 01:00	1	31797-11.d	RTX-624 0.32 (mm)
VIBLK 200-132926/12		08/16/2018 01:55	1		RTX-624 0.32 (mm)
VIBLK 200-132926/13		08/16/2018 02:49	1		RTX-624 0.32 (mm)
ICV 200-132926/14		08/16/2018 03:44	1	31797-14.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2018 04:39	1		RTX-624 0.32 (mm)
VIBLK 200-132926/16		08/16/2018 05:34	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45152-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 09/11/2018 11:38

Analysis Batch Number: 133921 End Date: 09/12/2018 06:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-133921/1		09/11/2018 11:38	1	32143-01.d	RTX-624 0.32 (mm)
CCVIS 200-133921/2		09/11/2018 12:42	1	32143-02.d	RTX-624 0.32 (mm)
LCS 200-133921/3		09/11/2018 13:37	1	32143-03.d	RTX-624 0.32 (mm)
MB 200-133921/4		09/11/2018 14:32	1	32143-04.d	RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 15:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 16:14	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:05	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:57	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 18:50	2		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 19:44	1		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 20:36	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 21:27	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 22:19	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 23:30	0.2		RTX-624 0.32 (mm)
200-45152-10		09/12/2018 00:41	0.2	32143-15.d	RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 01:32	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 02:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 03:15	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 04:06	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 05:18	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 06:30	0.2		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45174-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 08/15/2018 15:42

Analysis Batch Number: 132926 End Date: 08/16/2018 05:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132926/1		08/15/2018 15:42	1	31797-01.d	RTX-624 0.32 (mm)
VIBLK 200-132926/2		08/15/2018 16:49	1		RTX-624 0.32 (mm)
VIBLK 200-132926/3		08/15/2018 17:45	1		RTX-624 0.32 (mm)
IC 200-132926/4		08/15/2018 18:38	1	31797-04.d	RTX-624 0.32 (mm)
IC 200-132926/5		08/15/2018 19:32	1	31797-05.d	RTX-624 0.32 (mm)
IC 200-132926/6		08/15/2018 20:27	1	31797-06.d	RTX-624 0.32 (mm)
IC 200-132926/7		08/15/2018 21:22	1	31797-07.d	RTX-624 0.32 (mm)
ICIS 200-132926/8		08/15/2018 22:17	1	31797-08.d	RTX-624 0.32 (mm)
IC 200-132926/9		08/15/2018 23:11	1	31797-09.d	RTX-624 0.32 (mm)
IC 200-132926/10		08/16/2018 00:06	1	31797-10.d	RTX-624 0.32 (mm)
IC 200-132926/11		08/16/2018 01:00	1	31797-11.d	RTX-624 0.32 (mm)
VIBLK 200-132926/12		08/16/2018 01:55	1		RTX-624 0.32 (mm)
VIBLK 200-132926/13		08/16/2018 02:49	1		RTX-624 0.32 (mm)
ICV 200-132926/14		08/16/2018 03:44	1	31797-14.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2018 04:39	1		RTX-624 0.32 (mm)
VIBLK 200-132926/16		08/16/2018 05:34	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45174-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 09/11/2018 11:38

Analysis Batch Number: 133921 End Date: 09/12/2018 06:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-133921/1		09/11/2018 11:38	1	32143-01.d	RTX-624 0.32 (mm)
CCVIS 200-133921/2		09/11/2018 12:42	1	32143-02.d	RTX-624 0.32 (mm)
LCS 200-133921/3		09/11/2018 13:37	1	32143-03.d	RTX-624 0.32 (mm)
MB 200-133921/4		09/11/2018 14:32	1	32143-04.d	RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 15:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 16:14	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:05	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:57	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 18:50	2		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 19:44	1		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 20:36	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 21:27	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 22:19	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 23:30	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 00:41	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 01:32	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 02:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 03:15	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 04:06	10		RTX-624 0.32 (mm)
200-45174-12		09/12/2018 05:18	0.2	32143-20.d	RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 06:30	0.2		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45175-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 08/15/2018 15:42

Analysis Batch Number: 132926 End Date: 08/16/2018 05:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-132926/1		08/15/2018 15:42	1	31797-01.d	RTX-624 0.32 (mm)
VIBLK 200-132926/2		08/15/2018 16:49	1		RTX-624 0.32 (mm)
VIBLK 200-132926/3		08/15/2018 17:45	1		RTX-624 0.32 (mm)
IC 200-132926/4		08/15/2018 18:38	1	31797-04.d	RTX-624 0.32 (mm)
IC 200-132926/5		08/15/2018 19:32	1	31797-05.d	RTX-624 0.32 (mm)
IC 200-132926/6		08/15/2018 20:27	1	31797-06.d	RTX-624 0.32 (mm)
IC 200-132926/7		08/15/2018 21:22	1	31797-07.d	RTX-624 0.32 (mm)
ICIS 200-132926/8		08/15/2018 22:17	1	31797-08.d	RTX-624 0.32 (mm)
IC 200-132926/9		08/15/2018 23:11	1	31797-09.d	RTX-624 0.32 (mm)
IC 200-132926/10		08/16/2018 00:06	1	31797-10.d	RTX-624 0.32 (mm)
IC 200-132926/11		08/16/2018 01:00	1	31797-11.d	RTX-624 0.32 (mm)
VIBLK 200-132926/12		08/16/2018 01:55	1		RTX-624 0.32 (mm)
VIBLK 200-132926/13		08/16/2018 02:49	1		RTX-624 0.32 (mm)
ICV 200-132926/14		08/16/2018 03:44	1	31797-14.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2018 04:39	1		RTX-624 0.32 (mm)
VIBLK 200-132926/16		08/16/2018 05:34	1		RTX-624 0.32 (mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-45175-1

SDG No.: \_\_\_\_\_

Instrument ID: CHW.i Start Date: 09/11/2018 11:38

Analysis Batch Number: 133921 End Date: 09/12/2018 06:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-133921/1		09/11/2018 11:38	1	32143-01.d	RTX-624 0.32 (mm)
CCVIS 200-133921/2		09/11/2018 12:42	1	32143-02.d	RTX-624 0.32 (mm)
LCS 200-133921/3		09/11/2018 13:37	1	32143-03.d	RTX-624 0.32 (mm)
MB 200-133921/4		09/11/2018 14:32	1	32143-04.d	RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 15:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 16:14	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:05	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 17:57	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 18:50	2		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 19:44	1		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 20:36	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 21:27	10		RTX-624 0.32 (mm)
ZZZZZ		09/11/2018 22:19	10		RTX-624 0.32 (mm)
200-45175-12		09/11/2018 23:30	0.2	32143-14.d	RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 00:41	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 01:32	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 02:23	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 03:15	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 04:06	10		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 05:18	0.2		RTX-624 0.32 (mm)
ZZZZZ		09/12/2018 06:30	0.2		RTX-624 0.32 (mm)

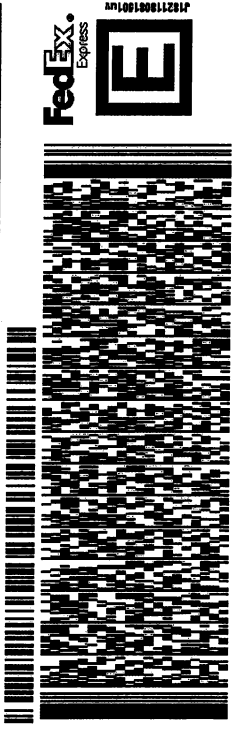
# Shipping and Receiving Documents



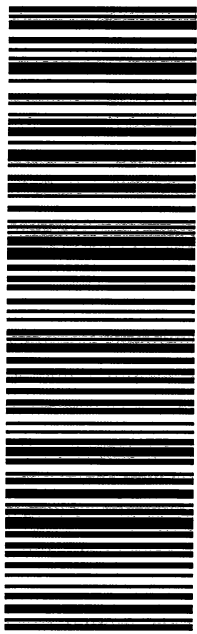
ORIGIN ID:RDMA (541) 388-9290  
BRENDA MOORE  
390 NE EMERSON AVENUE  
201 BEND, OR 97701  
UNITED STATES US

SHIP DATE: 27SEP18  
ACTWGT: 25.00 LB  
CAD: 7588105/NET 4040  
DIMS: 20x20x17 IN  
BILL SENDER

TO TEST AMERICA VERMONT  
TEST AMERICA  
30 COMMUNITY DR  
STE 11  
SOUTH BURLINGTON VT 05403  
(802) 660-1990 REF: 80429.010 P4 T2  
INVT: PO: DEPT: 552JHFR78C/DCA5



1 of 3  
TRK# 7733 4583 5770  
## MASTER ##  
MON - 01 OCT 4:30P \*\* 2DAY \*\*  
05403 VT-US BTVA



**After printing this label:**  
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.  
2. Fold the printed page along the horizontal line.  
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.  
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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ORIGIN ID: RDMA (541) 388-9290  
BRENDA MOORE  
300 NE EMERSON AVENUE  
201 BEND, OR 97701  
UNITED STATES US

SHIP DATE: 27SEP18  
ACT WGT: 25.00 LB  
CAD: 7588.0570 NET 4040  
DIMs: 26x20x17 IN  
BILL SENDER

TO TEST AMERICA VERMONT  
TEST AMERICA  
30 COMMUNITY DR  
STE 11

SOUTH BURLINGTON VT 05403  
REF: 80x29x010 P4 T2

552J1F78C/DCA5

PO: (802) 660-1990 DEPT:



MON - 01 OCT 4:30P  
\*\* 2DAY \*\*

2 of 3

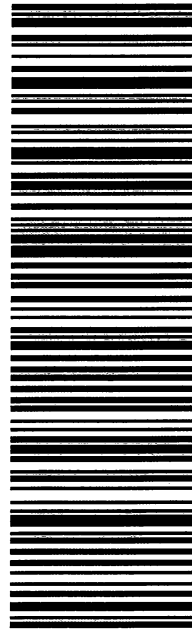
MPS# 7733 4583 6480

0263

Mstr# 7733 4583 5770

05403  
VT-US BTV

SK BTVA



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ORIGIN ID: RDMA (541) 388-9290  
BRENDA MOORE  
390 NE EMERSON AVENUE  
201 BEND, OR 97701  
UNITED STATES US

SHIP DATE: 27SEP18  
ACT WT: 25.00 LB  
CAD: 588.105 NET 4040  
DIM: 20x20x17 IN  
BILL SENDER

TO TEST AMERICA VERMONT  
TEST AMERICA  
30 COMMUNITY DR  
STE 11

SOUTH BURLINGTON VT 05403  
REF: 8042910 P4 T2

552J1F78C/DCA5

(802) 660-1990  
INV.  
PO:

DEPT:



MON - 01 OCT 4:30P  
\*\* 2DAY \*\*

3 of 3

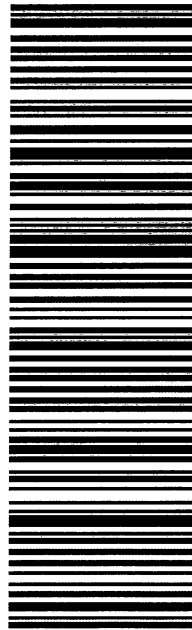
NPS# 7733 4583 5667

0263

Mstr# 7733 4583 5770

05403  
VT-US BTVA

SK BTVA



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# Login Sample Receipt Checklist

Client: PBS Engineering and Environmental

Job Number: 200-45504-1

SDG Number: 200-45504-1

**Login Number: 45504**  
**List Number: 1**  
**Creator: Mohn, Taylor J**

**List Source: TestAmerica Burlington**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	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	
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	