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FW: Elmwood Park Neighborhood Sampling Results  
Guariglia, Dale  
to:  
David Hoefer  
09/10/2012 09:20 AM  
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From: "Guariglia, Dale" <daguariglia@BryanCave.com>

To: David Hoefer/R7/USEPA/US@EPA

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7 Attachments



Data Validation Memo PKI August 2012 Indoor Air Samples\_Final.pdf



Data Validation Memo\_PKI\_August 2012 Sub-slab Samples\_final.pdf



Data Validation Memo\_PKI\_August 2012 Sump Samples\_final.pdf



Lab Report 200-12393-1 Sump Water.pdf



Lab Report 200-12398-1 Sub slab and indoor air.pdf



Lab Report 200-12429-1 ambient air and sub slab.pdf



Lab Report 200-12430-1 indoor air and sump air.pdf

Email attachments are available only on CD

Here is the lab data.

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**Cc:** Goldberg, Joel ([Joel.Goldberg@PERKINELMER.COM](mailto:Joel.Goldberg@PERKINELMER.COM)); Healy, Jack ([jack.healy@perkinelmer.com](mailto:jack.healy@perkinelmer.com)); Wallace, Chip; Wasco, Stephanie ([Stephanie.Wasco@PERKINELMER.COM](mailto:Stephanie.Wasco@PERKINELMER.COM)); Guariglia, Dale  
**Subject:** RE: Elmwood Park Neighborhood Sampling Results

The raw lab data and our data validation memos are attached.

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**From:** Zychinski, Tom  
**Sent:** Friday, September 07, 2012 3:00 PM  
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**Subject:** Elmwood Park Neighborhood Sampling Results

The results from the August sampling event are summarized in the attachment. We look forward to discussing the results and the path forward at our meeting next week. Please call with any questions.

Tom Zychinski, P.G.  
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## BURNS & McDONNELL

Client: PerkinElmer, Inc. Prepared By: Heather Kaiser  
Site: PerkinElmer Missouri Metals Site Date: September 6, 2012  
Project #: 26682 Checked By: Sharon Shelton  
Title: Data Validation for Indoor Air Samples Date: September 6, 2012  
Collected August 22-24, 2012  
TestAmerica Data Package(s): 200-12430-1, 200-12429-1, and 200-12398-1

## PURPOSE

The purpose of this document is to present the evaluation and validation of indoor air and sump air sampling analytical results.

## VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Evaluated analytical holding times and sample preservation.
- Evaluated laboratory blank analyses.
- Evaluated laboratory control samples (LCS).
- Evaluated field duplicate sample analyses.
- Reviewed laboratory annotations.

## SAMPLING EFFORT

Seventeen indoor air, four ambient air, and three sump air samples were collected for chemical analysis on August 22-24, 2012 from residences in the vicinity of the PerkinElmer, Inc. (PKI) Missouri Metals site in Overland, Missouri. In addition, two indoor air duplicates and one sump air duplicate were collected for quality control (QC) purposes.

## LABORATORY

Samples were analyzed and validated by TestAmerica Laboratories, Inc. (TestAmerica) of Burlington, Vermont in accordance with United States Environmental Protection Agency (USEPA) procedures.

## CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use with qualification. TestAmerica performed laboratory validation and determined that all analytical results were usable. Burns & McDonnell performed further evaluation and validation, in accordance with USEPA guidelines (2008) determining that the overall quality of the analytical results was acceptable with the following qualifications:

- Samples IA-08 and IA-08/FD: The calculated RPDs for the diluted analysis of the duplicate pair IA-08 and IA-08/FD were above the 25 percent QC limit for 1,2-dichloroethene, cis-1,2-dichloroethene, and trichloroethene which had RPDs 36%, 39%, and 37%, respectively. The 1,2-dichloroethene, cis-1,2-dichloroethene and trichloroethene results for the diluted analysis were qualified in both the parent and



duplicate sample as estimated (J). Both the cis-1,2-dichloroethene and trichloroethene results from the non-diluted analysis exceeded the linear calibration range of the instrument and should be considered estimated values (i.e., E qualifier from laboratory). The 1,2-dichloroethene result in the non-diluted analysis was within calibration and is useable without qualification.

## REFERENCES

The following reference documents were used:

- (1) USEPA, 2008. *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June.
- (2) USEPA, 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, Compendium Method TO-15- Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*, EPA/625/R-96/010b, June.

## SAMPLE INFORMATION

Sample numbers and analyses requested are presented in Table 1. The methods used to analyze the air samples are presented in Table 2.

## HOLDING TIME AND SAMPLE PRESERVATION EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the analyses performed. All sample analyses were performed within the established holding time.

## LABORATORY BLANK ANALYSIS EVALUATION

Laboratory blanks were prepared and analyzed for this sampling event. The method blank results were all non-detect; therefore, no qualification was necessary.

## LABORATORY CONTROL SAMPLE EVALUATION

Laboratory control samples were prepared and analyzed for this sampling event. The LCS percent recoveries were within the established laboratory limits; therefore, no qualification was necessary.

## FIELD DUPLICATE SAMPLE EVALUATION

Three field duplicate samples, IA-08 and IA-08/FD, IA-11 and IA-11/FD, and SUA-02 and SUA-02/FD, were collected and analyzed. Table 4 presents the primary and duplicate sample comparisons of organic parameters. In those cases where analytes were detected in both the primary sample and duplicate sample at concentrations greater than five times the reporting limit, the RPD was calculated according to the following formula:

$$RPD = | (Pc - Dc) / [(Pc + Dc) / 2] | \times 100$$

Where Pc = Primary concentration.

Dc = Duplicate concentration.

The calculated RPDs were all below the 25 percent QC limit except for 1,2-dichloroethene, cis-1,2-dichloroethene, and trichloroethene which had RPDs 36%, 39%, and 37%, respectively, in the diluted analysis for IA-08 and IA-08/FD. The 1,2-dichloroethene, cis-1,2-dichloroethene and trichloroethene results for the diluted analysis were qualified in both the parent and duplicate sample as estimated (J). Both the cis-1,2-dichloroethene and trichloroethene results from the non-diluted analysis exceeded the linear calibration range of the instrument and should be considered estimated values (i.e., E qualifier from laboratory). The 1,2-dichloroethene result in the non-diluted analysis was within calibration and is useable without qualification.

All other analytes were non-detect in both samples or less than five times the reporting limit, and RPDs were not calculated. For results that were less than five times the reporting limit the sensitivity test was applied by finding the absolute difference between the sample and duplicate. If the absolute difference was less than reporting limit, the analytes passed the sensitivity test. All results which required the sensitivity test, passed.

### **LABORATORY ANNOTATION REVIEW**

A review of the TestAmerica case narratives indicates that the overall quality of the analytical results is acceptable. Samples SUA-01, SUA-02, and SUA-02/FD were originally designated for analysis using the low level TO-15 method. Based on sample screening, it was determined the samples could not be processed with the low level method due to elevated concentrations of target analytes. Therefore, samples SUA-01, SUA-02, SUA-02/FD were analyzed using standard TO-15 techniques. In addition, the laboratory indicated that certain samples exhibited internal standard results outside of QC limits due to high sample humidity and/or interference from other analytes, and these samples were reanalyzed at as low a dilution as possible to achieve results within QC criteria. In addition, several samples exhibited analyte results in excess of the instrument calibration range. As such, these samples were diluted and their reporting limits were adjusted accordingly. Both the non-diluted and diluted results were reported.

**Table 1**  
**List of Sample Numbers and Analyses**

Sample Number	Analyses
IA-01	Low Level Volatile Organic Carbons (VOCs): Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-02	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-03	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-04	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-05	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-06	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-07	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-08	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-09	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-10	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-11	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

**Table 1**  
**List of Sample Numbers and Analyses**

Sample Number	Analyses
IA-12	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-13	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-14	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-15	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-16	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
IA-17	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
AMB-02	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
AMB-03	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
AMB-04	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
AMB-05	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SUA-01	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

**Table 1**  
**List of Sample Numbers and Analyses**

<b>Sample Number</b>	<b>Analyses</b>
SUA-02	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SUA-03	Low Level VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

**Table 2**  
**Analytical Methods**

<b>Parameter</b>	<b>Analytical Method</b>
VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene	TO-15 and TO-15 Low Level

<b>Table 3 Analytical Holding Times</b>	
<b>Analyses</b>	<b>Holding Time From Sample Collection</b>
VOCs	30 days

**Table 4  
Field Duplicate Analytical Results**

<b>Compound</b>	<b>IA-08</b>	<b>IA-08/FD</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	0.12 U	0.12 U	--
1,2-Dichloroethene, Total	39	39	0.0
cis-1,2-Dichloroethene	38 E	38 E	NA
Tetrachloroethene	1.8	1.9	5.4
trans-1,2-Dichloroethene	0.90	0.96	6.5
Trichloroethene	67 E	65 E	NA
Vinyl chloride	0.15 U	0.15 U	--
<b>Compound</b>	<b>IA-08 DL</b>	<b>IA-08/FD DL</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	0.79 U	0.79 U	--
1,2-Dichloroethene, Total	30 D	43 D	36
cis-1,2-Dichloroethene	29 D	43 D	39
Tetrachloroethene	1.4 D	2.1 D	--
trans-1,2-Dichloroethene	0.87 D	0.90 D	--
Trichloroethene	50 D	73 D	37
Vinyl chloride	1.0 U	1.0 U	--
<b>Compound</b>	<b>IA-11</b>	<b>IA-11/FD</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	0.20 U	0.20 U	--
1,2-Dichloroethene, Total	0.41	0.46	--
cis-1,2-Dichloroethene	0.41	0.46	--
Tetrachloroethene	15	16	6.5
trans-1,2-Dichloroethene	0.20 U	0.20 U	--
Trichloroethene	1.2	1.4	--
Vinyl chloride	0.26 U	0.26 U	--

Notes:

- 1) RPD = relative percent difference
- 2)  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter
- 3) U = non-detect value
- 4) E = Result exceeded calibration range
- 5) D = Sample results are obtained from dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
- 6) -- = Compound/analyte detected in primary and/or duplicate sample at less than or equal to 5 times the reporting limit. No RPD was calculated.
- 7) NA = Not Applicable. Results exceeded instrument calibration range and were considered estimated values. No RPD was calculated. See results for diluted analysis.



**Table 4  
Field Duplicate Analytical Results**

<b>Compound</b>	<b>SUA-02</b>	<b>SUA-02/FD</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	0.79 U	0.79 U	--
1,2-Dichloroethene, Total	170	180	5.7
cis-1,2-Dichloroethene	170 E	170 E	NA
Tetrachloroethene	8.2	8.2	0.0
trans-1,2-Dichloroethene	4.4	4.3	2.3
Trichloroethene	300 E	290 E	NA
Vinyl chloride	0.51 U	0.51 U	--
<b>Compound</b>	<b>SUA-02 DL</b>	<b>SUA-02/FD DL</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	1.6 U	1.6 U	--
1,2-Dichloroethene, Total	170 D	160 D	6.1
cis-1,2-Dichloroethene	170 D	160 D	6.1
Tetrachloroethene	8.5 D	7.9 D	--
trans-1,2-Dichloroethene	4.2 D	4.0 D	--
Trichloroethene	290 D	270 D	7.1
Vinyl chloride	1.0 U	1.0 U	--

Notes:

- 1) RPD = relative percent difference
- 2)  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter
- 3) U = non-detect value
- 4) E = Result exceeded calibration range
- 5) D = Sample results are obtained from dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
- 6) -- = Compound/analyte detected in primary and/or duplicate sample at less than or equal to 5 times the reporting limit. No RPD was calculated.
- 7) NA = Not Applicable. Results exceeded instrument calibration range and were considered estimated values. No RPD was calculated. See results for diluted analysis.

**Table 5  
Data Summary and Qualifiers  
PerkinElmer Missouri Metals**

Sample Name	Lab Number	Analysis	Target Analyte	Data Review Qualifier	Reported Result	Units	Reason for Qualification
IA-08	200-12433-4 DL	VOCs	cis-1,2-Dichloroethene	J	29 J	$\mu\text{g}/\text{m}^3$	Estimated. Poor field duplicate precision.
			Trichloroethene	J	50 J	$\mu\text{g}/\text{m}^3$	Estimated. Poor field duplicate precision.
			1,2-Dichloroethene (Total)	J	30 J	$\mu\text{g}/\text{m}^4$	Estimated. Poor field duplicate precision.
IA-08/FD	200-12430-11 DL	VOCs	cis-1,2-Dichloroethene	J	43 J	$\mu\text{g}/\text{m}^3$	Estimated. Poor field duplicate precision.
			Trichloroethene	J	73 J	$\mu\text{g}/\text{m}^3$	Estimated. Poor field duplicate precision.
			1,2-Dichloroethene (Total)	J	43 J	$\mu\text{g}/\text{m}^4$	Estimated. Poor field duplicate precision.

$\mu\text{g}/\text{m}^3$  = Micrograms per cubic meters

J = Qualified as estimated by QC evaluation

VOC = Volatile Organic Compound

## BURNS & McDONNELL

Client:	PerkinElmer, Inc.	Prepared By:	Heather Kaiser
Site:	PerkinElmer Missouri Metals Site	Date:	September 5, 2012
Project #:	26682	Checked By:	Sharon Shelton
Title:	Data Validation for Sub Slab Vapor Samples Collected August 21-23, 2012 TestAmerica Data Package(s): 200-12398-1 and 200-12429-1	Date:	September 6, 2012

### PURPOSE

The purpose of this document is to present the evaluation and validation of sub slab vapor sampling analytical results.

### VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Evaluated analytical holding times and sample preservation.
- Review of chain-of-custody (COC) form and requested analysis completed
- Evaluated laboratory blank analyses.
- Evaluated laboratory control samples (LCS).
- Evaluated field duplicate sample analyses.
- Reviewed laboratory annotations.

### SAMPLING EFFORT

Sub slab vapor samples were collected for chemical analysis on August 21-23, 2012 from residential homes in the vicinity of the PerkinElmer, Inc. (PKI) Missouri Metals site in Overland, Missouri.

### LABORATORY

Samples were analyzed and validated by TestAmerica Laboratories, Inc. (TestAmerica) of Burlington, Vermont in accordance with United States Environmental Protection Agency (USEPA) procedures.

### CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use without qualification. TestAmerica performed laboratory validation and determined that all analytical results were usable. Burns & McDonnell performed further evaluation and validation, in accordance with USEPA guidelines (2008) determining that the overall quality of the analytical results was acceptable.

## REFERENCES

The following reference documents were used:

- (1) USEPA, 2008. *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June.
- (2) USEPA, 1999. *Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, Compendium Method TO-15- Determination Of Volatile Organic Compounds (VOCs) In Air Collected In Specially-Prepared Canisters And Analyzed By Gas Chromatography/Mass Spectrometry (GC/MS)*, EPA/625/R-96/010b, June.

## SAMPLE INFORMATION

Sample numbers and analyses requested are presented in Table 1. The methods used to analyze the sub slab vapor samples are presented in Table 2.

## HOLDING TIME AND SAMPLE PRESERVATION EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the analyses performed. All sample analyses were performed within the established holding time.

## LABORATORY BLANK ANALYSIS EVALUATION

Laboratory blanks were prepared and analyzed for this sampling event. The method blank results were all non-detect; therefore, no qualification was necessary.

## LABORATORY CONTROL SAMPLE EVALUATION

Laboratory control samples were prepared and analyzed for this sampling event. The LCS percent recoveries were within the established laboratory limits; therefore, no qualification was necessary.

## FIELD DUPLICATE SAMPLE EVALUATION

Two field duplicate sample, SSV-02 and SSV-02/FD, and SSV-06 and SSV-06/FD, were collected and analyzed. Table 4 presents the primary and duplicate sample comparisons of organic parameters. In those cases where analytes were detected in both the primary sample and duplicate sample at concentrations greater than five times the reporting limit, the RPD was calculated according to the following formula:

$$RPD = |(Pc-Dc)/[(Pc+Dc)/2]| \times 100$$

Where Pc = Primary concentration.

Dc = Duplicate concentration.

The initial analysis for duplicate pair SSV-06 and SSV-06/FD exhibited tetrachloroethene results in excess of the linear calibration range of the instrument. As such, comparison of these results was not performed. The samples were re-analyzed at dilution to obtain results within the calibration range and the RPD between the two tetrachloroethene results was 15 percent, which was below the 25 percent quality control (QC) maximum. All other analytes were non-detect in both samples or less than five times the reporting limit and RPDs were not

calculated. For results that were less than five times the reporting limit the sensitivity test was applied by finding the absolute difference between the sample and duplicate. If the absolute difference was less than reporting limit the analytes passed the sensitivity test. All analytes passed the sensitivity test.

### **LABORATORY ANNOTATION REVIEW**

A review of the TestAmerica case narrative indicates that the overall quality of the analytical results is acceptable. The laboratory noted that several samples were diluted and their reporting limits were adjusted accordingly.

**Table 1**  
**List of Sample Numbers and Analyses**

Sample Number	Analyses
SSV-01	Volatile Organic Carbons (VOCs): Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-02	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-03	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-04	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-05	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-06	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-07	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-08	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-09	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-10	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-11	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

**Table 1**  
**List of Sample Numbers and Analyses**

<b>Sample Number</b>	<b>Analyses</b>
SSV-12	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-13	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-14	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-15	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-16	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene
SSV-17	VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

**Table 2**  
**Analytical Methods**

<b>Parameter</b>	<b>Analytical Method</b>
VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene	TO-15



<b>Table 3</b>	
<b>Analytical Holding Times</b>	
<b>Analyses</b>	<b>Holding Time From Sample Collection</b>
VOCs	30 days

**Table 4  
Field Duplicate Analytical Results**

<b>Compound</b>	<b>SSV-02</b>	<b>SSV-02/FD</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	1.6 U	1.6 U	--
1,2-Dichloroethene, Total	1.6 U	1.6	--
cis-1,2-Dichloroethene	1.6 U	1.6	--
Tetrachloroethene	3.3	2.9	--
trans-1,2-Dichloroethene	1.6 U	1.6 U	--
Trichloroethene	7.2	7.3	--
Vinyl chloride	1.0 U	1.0 U	--
			--
<b>Compound</b>	<b>SSV-06</b>	<b>SSV-06/FD</b>	<b>RPD %</b>
VOCs ( $\mu\text{g}/\text{m}^3$ )			
1,1-Dichloroethene	1.6 U	1.6 U	--
1,2-Dichloroethene, Total	1.6 U	1.6 U	--
cis-1,2-Dichloroethene	1.6 U	1.6 U	--
Tetrachloroethene	1400 E	1800 E	NA
trans-1,2-Dichloroethene	1.6 U	1.6 U	--
Trichloroethene	6.0	6.9	--
Vinyl chloride	1.0 U	1.0 U	--
<b>Compound</b>	<b>SSV-06 DL</b>	<b>SSV-06/FD DL</b>	<b>RPD %</b>
1,1-Dichloroethene	6.3 U	7.9 U	--
1,2-Dichloroethene, Total	6.3 U	7.9 U	--
cis-1,2-Dichloroethene	6.3 U	7.9 U	--
Tetrachloroethene	1200 D	1400 D	15
trans-1,2-Dichloroethene	6.3 U	7.9 U	--
Trichloroethene	8.6 U	11 U	--
Vinyl chloride	4.1 U	5.1 U	--

Notes:

- 1) RPD = relative percent difference
- 2)  $\mu\text{g}/\text{m}^3$  = micrograms per cubic meter
- 3) U = non-detect value
- 4) E = Result exceeded calibration range
- 5) D = Sample results are obtained from dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
- 6) -- = Compound/analyte detected in primary and/or duplicate sample at less than or equal to 5 times the reporting limit. No RPD was calculated.
- 7) NA = Not Applicable. Results exceeded instrument calibration range and were considered estimated values. No RPD was calculated. See results for diluted analysis.



## BURNS & McDONNELL

Client: PerkinElmer, Inc.  
Site: PerkinElmer Missouri Metals Site  
Project #: 26682  
Title: Data Validation for Sump Water Samples  
Collected August 22, 2012  
TestAmerica Data Package(s): 200-12393-1

Prepared By: Heather Kaiser  
Date: September 4, 2012  
Checked By: Sharon Shelton  
Date: September 4, 2012

## PURPOSE

The purpose of this document is to present the evaluation and validation of sump water sampling analytical results.

## VALIDATION CRITERIA

The evaluation and validation consisted of the following:

- Evaluated analytical holding times and sample preservation.
- Review of chain-of-custody (COC) form and requested analysis completed
- Evaluated laboratory surrogate recoveries.
- Evaluated laboratory blank analyses.
- Evaluated laboratory control samples (LCS).
- Evaluated matrix spike/matrix spike duplicate (MS/MSD) analyses.
- Evaluated field duplicate sample analyses.
- Evaluated trip blank analyses.
- Reviewed laboratory annotations.

## SAMPLING EFFORT

One sump water sample was collected from one sump located in a residential home for chemical analysis on August 22, 2012 in the vicinity of the PerkinElmer, Inc. (PKI) Missouri Metals site in Overland, Missouri.

## LABORATORY

Samples were analyzed and validated by TestAmerica Laboratories, Inc. (TestAmerica) of Burlington, Vermont in accordance with United States Environmental Protection Agency (USEPA) procedures (USEPA, 1986).

## CONCLUSIONS

Laboratory data have been reviewed and are acceptable for use without qualification. TestAmerica performed laboratory validation and determined that all analytical results were usable. Burns & McDonnell performed further evaluation and validation, in accordance with USEPA guidelines (2008) determining that the overall quality of the analytical results was acceptable without qualification.

## REFERENCES

The following reference documents were used:

- (1) USEPA, 1986. *Test Methods for Evaluating Solid Wastes, Physical/Chemical Methods*, EPA Publication No. SW-846, [Third Edition, September 1986, as amended by Updates I (July 1992), II (September 1994), IIA (August 1993), IIB (January 1995), III (December 1996), IIIA (April 1998), IVA and IVB (January 2008)].
- (2) USEPA, 2008. *Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review*, June.

## SAMPLE INFORMATION

Sample numbers and analyses requested are presented in Table 1. The methods used to analyze the water samples are presented in Table 2. The trip blank was inadvertently not listed on the COC; however, a trip blank was sent with the samples and analyzed by the laboratory.

## HOLDING TIME AND SAMPLE PRESERVATION EVALUATION

Table 3 presents the analytical holding times that were used to evaluate and validate the analyses performed. All sample analyses were performed within the established holding time. One cooler was received by TestAmerica at a temperature of 0.4 degrees Celsius (°C), which was less than recommended sample preservation temperature of  $4 \pm 2$  °C; however, the sample was not frozen and once received at the laboratory the sample was placed at the proper temperature.

Sample SUW-01 was received at the laboratory at a pH greater than 2, which is in excess of sample preservation requirements. The pH of the analyzed sample was 8. Since Sample SUW-01 was analyzed within the unpreserved sample seven day holding time, qualification based on preservation was not required.

## SURROGATE RECOVERY EVALUATION

All surrogate recoveries were within the established laboratory limit; therefore, no qualification was necessary.

## LABORATORY BLANK ANALYSIS EVALUATION

Laboratory blanks were prepared and analyzed for this sampling event. The method blank results were all non-detect; therefore, no qualification was necessary.

## LABORATORY CONTROL SAMPLE EVALUATION

Laboratory control samples were prepared and analyzed for this sampling event. The LCS percent recoveries were within the established laboratory limits; therefore, no qualification was necessary.

## MATRIX SPIKE/MATRIX SPIKE DUPLICATE SAMPLE EVALUTION

No field MS/MSD samples were taken during this sampling event.

## **FIELD DUPLICATE SAMPLE EVALUATION**

No field duplicate samples were taken during this sampling event.

## **TRIP BLANK ANALYSIS EVALUATION**

One trip blank was analyzed and the results were all non-detect; therefore, no qualification was necessary.

## **LABORATORY ANNOTATION REVIEW**

The laboratory noted that Sample SUW-01 required dilution due to foaming during purging of the undiluted sample. This resulted in elevated reporting limits for undetected parameters (vinyl chloride, 1,1-dichloroethene, and trans-1,2-dichloroethene). A review of the TestAmerica case narrative indicates that the overall quality of the analytical results is acceptable.

<b>Table 1 List of Sample Numbers and Analyses</b>	
<b>Sample Number</b>	<b>Analyses</b>
SUW-01	Volatile Organic Carbons (VOCs): Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene

<b>Table 2 Analytical Methods</b>	
<b>Parameter</b>	<b>Analytical Method<sup>(1)</sup></b>
VOCs: Vinyl chloride, 1,1-Dichloroethene, trans-1,2-Dichloroethene, total 1,2-Dichloroethene, cis-1,2-Dichloroethene, Trichloroethene, Tetrachloroethene	8260

Notes:

(1) SW-846 Test Methods (USEPA 1986)

<b>Table 3 Analytical Holding Times</b>	
<b>Analyses</b>	<b>Holding Time From Sample Collection<sup>(1, 2)</sup></b>
VOCs	14 days

Notes:

(1) SW-846 Test Methods (USEPA 1986)

(2) If samples are unable to be preserved to pH < 2, holding time is reduced to 7 days.

## ANALYTICAL REPORT

Job Number: 200-12393-1

SDG Number:

Job Description: PKI/26682-3.20.20 - GW

For:

Burns & McDonnell  
425 South Woods Mill Road  
Suite 300

Chesterfield, MO 63017

Attention: Cheryl Mathenia



Approved for release.  
Sara S Goff  
Project Manager I  
8/31/2012 1:47 PM

---

Designee for  
Don C Dawicki  
Customer Service Manager  
don.dawicki@testamericainc.com  
08/31/2012

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 NELAP. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

**TestAmerica Laboratories, Inc.**

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

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





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## CASE NARRATIVE

**Client: Burns & McDonnell**

**Project: PKI/26682-3.20.20 - GW**

**Report Number: 200-12393-1**

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

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

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

### RECEIPT

The samples were received on 08/24/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.4 C.

Sample labels were not present on containers submitted for sample SUW-01. The sample information was recorded in marker on the sample container.

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

### VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SUW-01 and TRIP BLANK were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/29/2012 and 08/30/2012.

Sample SUW-01 was diluted due to foaming at the time of purging during the original sample analysis. Elevated reporting limits (RLs) are provided.

Sample SUW-01 was received with insufficient preservation (pH >2). pH of sample vial analyzed was 8.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12393-1

SDG No.: \_\_\_\_\_

Instrument ID: L.i Analysis Batch Number: 44069

Lab Sample ID: IC 200-44069/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/27/12 11:42 Lab File ID: lhr03.d GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrylonitrile	6.01	Analyte not identified by the data system	mtp	08/27/12 14:01
Propionitrile	7.88	Baseline event	mtp	08/27/12 14:01
Methacrylonitrile	8.11	Baseline event	mtp	08/27/12 14:01
Dibromomethane	11.00	Analyte not identified by the data system	mtp	08/27/12 14:01

Lab Sample ID: IC 200-44069/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/27/12 12:14 Lab File ID: lhr04.d GC Column: DB-624 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propionitrile	7.88	Baseline event	mtp	08/27/12 14:02

## SAMPLE SUMMARY

Client: Burns & McDonnell

Job Number: 200-12393-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
200-12393-1	SUW-01	Water	08/22/2012 1428	08/24/2012 0945
200-12393-2	TRIP BLANK	Water	08/22/2012 0000	08/24/2012 0945

US EPA ARCHIVE DOCUMENT

## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-12393-1	SUW-01					
1,2-Dichloroethene, Total		21		8.8	ug/L	8260B
cis-1,2-Dichloroethene		21		8.8	ug/L	8260B
Trichloroethene		100		8.8	ug/L	8260B
Tetrachloroethene		2.0	J	8.8	ug/L	8260B

US EPA ARCHIVE DOCUMENT

## METHOD SUMMARY

Client: Burns & McDonnell

Job Number: 200-12393-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Water</b>			
Volatile Organic Compounds (GC/MS)	TAL BUR	SW846 8260B	
Purge and Trap	TAL BUR		SW846 5030B

### Lab References:

TAL BUR = TestAmerica Burlington

### Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**METHOD / ANALYST SUMMARY**

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
SW846 8260B	Keene, Angela H	AHK

**US EPA ARCHIVE DOCUMENT**



Analytical Data

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

Client Sample ID: SUW-01

Lab Sample ID: 200-12393-1

Date Sampled: 08/22/2012 1428

Client Matrix: Water

Date Received: 08/24/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	200-44296	Instrument ID:	Li
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	lhre07.d
Dilution:	8.8			Initial Weight/Volume:	5 mL
Analysis Date:	08/29/2012 2341			Final Weight/Volume:	5 mL
Prep Date:	08/29/2012 2341				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	8.8	U	0.79	8.8
1,1-Dichloroethene	8.8	U	1.6	8.8
trans-1,2-Dichloroethene	8.8	U	1.5	8.8
1,2-Dichloroethene, Total	21		2.8	8.8
cis-1,2-Dichloroethene	21		1.4	8.8
Trichloroethene	100		1.2	8.8
Tetrachloroethene	2.0	J	1.6	8.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4	94		80 - 115
Toluene-d8	96		80 - 115
Bromofluorobenzene	97		85 - 120
1,2-Dichlorobenzene-d4	90		80 - 115

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

Client Sample ID: TRIP BLANK

Lab Sample ID: 200-12393-2

Date Sampled: 08/22/2012 0000

Client Matrix: Water

Date Received: 08/24/2012 0945

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	200-44296	Instrument ID:	Li
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	lhre08.d
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/30/2012 0013			Final Weight/Volume:	5 mL
Prep Date:	08/30/2012 0013				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.0	U	0.090	1.0
1,1-Dichloroethene	1.0	U	0.18	1.0
trans-1,2-Dichloroethene	1.0	U	0.17	1.0
1,2-Dichloroethene, Total	1.0	U	0.32	1.0
cis-1,2-Dichloroethene	1.0	U	0.16	1.0
Trichloroethene	1.0	U	0.14	1.0
Tetrachloroethene	1.0	U	0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4	93		80 - 115
Toluene-d8	97		80 - 115
Bromofluorobenzene	95		85 - 120
1,2-Dichlorobenzene-d4	90		80 - 115

US EPA ARCHIVE DOCUMENT

## Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

### Surrogate Recovery Report

#### 8260B Volatile Organic Compounds (GC/MS)

##### Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DCZ %Rec
200-12393-1	SUW-01	94	96	97	90
200-12393-2	TRIP BLANK	93	97	95	90
MB 200-44296/5		92	97	96	92
LCS 200-44296/3		91	97	95	89

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4	80-115
TOL = Toluene-d8	80-115
BFB = Bromofluorobenzene	85-120
DCZ = 1,2-Dichlorobenzene-d4	80-115

**Quality Control Results**

Client: Burns & McDonnell

Job Number: 200-12393-1  
Sdg Number:

**Method Blank - Batch: 200-44296**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: MB 200-44296/5  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 08/29/2012 2236  
Prep Date: 08/29/2012 2236  
Leach Date: N/A

Analysis Batch: 200-44296  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: L.i  
Lab File ID: lhre05.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Vinyl chloride	1.0	U	0.090	1.0
1,1-Dichloroethene	1.0	U	0.18	1.0
trans-1,2-Dichloroethene	1.0	U	0.17	1.0
1,2-Dichloroethene, Total	1.0	U	0.32	1.0
cis-1,2-Dichloroethene	1.0	U	0.16	1.0
Trichloroethene	1.0	U	0.14	1.0
Tetrachloroethene	1.0	U	0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	92	80 - 115
Toluene-d8	97	80 - 115
Bromofluorobenzene	96	85 - 120
1,2-Dichlorobenzene-d4	92	80 - 115

**Lab Control Sample - Batch: 200-44296**

**Method: 8260B  
Preparation: 5030B**

Lab Sample ID: LCS 200-44296/3  
Client Matrix: Water  
Dilution: 1.0  
Analysis Date: 08/29/2012 2132  
Prep Date: 08/29/2012 2132  
Leach Date: N/A

Analysis Batch: 200-44296  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/L

Instrument ID: L.i  
Lab File ID: lhre03.d  
Initial Weight/Volume: 5 mL  
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	25.0	29.8	119	85 - 120	
1,1-Dichloroethene	25.0	26.8	107	85 - 120	
trans-1,2-Dichloroethene	25.0	25.5	102	85 - 120	
cis-1,2-Dichloroethene	25.0	25.0	100	85 - 120	
Trichloroethene	25.0	24.5	98	85 - 120	
Tetrachloroethene	25.0	26.1	104	85 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4	91	80 - 115
Toluene-d8	97	80 - 115
Bromofluorobenzene	95	85 - 120
1,2-Dichlorobenzene-d4	89	80 - 115

US EPA ARCHIVE DOCUMENT

## DATA REPORTING QUALIFIERS

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

Lab Section	Qualifier	Description
GC/MS VOA	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

US EPA ARCHIVE DOCUMENT

## Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12393-1

Sdg Number:

### QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>GC/MS VOA</b>					
<b>Analysis Batch:200-44296</b>					
LCS 200-44296/3	Lab Control Sample	T	Water	8260B	
MB 200-44296/5	Method Blank	T	Water	8260B	
200-12393-1	SUW-01	T	Water	8260B	
200-12393-2	TRIP BLANK	T	Water	8260B	

#### Report Basis

T = Total

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12393-1

Laboratory Chronicle

Lab ID: 200-12393-1

Client ID: SUW-01

Sample Date/Time: 08/22/2012 14:28

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	200-12393-B-1		200-44296		08/29/2012 23:41	8.8	TAL BUR	AHK
A:8260B	200-12393-B-1		200-44296		08/29/2012 23:41	8.8	TAL BUR	AHK

Lab ID: 200-12393-2

Client ID: TRIP BLANK

Sample Date/Time: 08/22/2012 00:00

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	200-12393-B-2		200-44296		08/30/2012 00:13	1	TAL BUR	AHK
A:8260B	200-12393-B-2		200-44296		08/30/2012 00:13	1	TAL BUR	AHK

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 200-44296/5		200-44296		08/29/2012 22:36	1	TAL BUR	AHK
A:8260B	MB 200-44296/5		200-44296		08/29/2012 22:36	1	TAL BUR	AHK

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 200-44296/3		200-44296		08/29/2012 21:32	1	TAL BUR	AHK
A:8260B	LCS 200-44296/3		200-44296		08/29/2012 21:32	1	TAL BUR	AHK

Lab References:

TAL BUR = TestAmerica Burlington

US EPA ARCHIVE DOCUMENT

# Certification Summary

Client: Burns & McDonnell  
Project/Site: PKI/26682-3.20.20 - GW

TestAmerica Job ID: 200-12393-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACCLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.



# Method 8260B

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Volatile Organic Compounds (GC/MS)  
by Method 8260B

FORM II  
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12393-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #	DCZ #
SUW-01	200-12393-1	94	96	97	90
TRIP BLANK	200-12393-2	93	97	95	90
	MB 200-44296/5	92	97	96	92
	LCS 200-44296/3	91	97	95	89

US EPA ARCHIVE DOCUMENT

DCA = 1,2-Dichloroethane-d4	<u>QC LIMITS</u>
TOL = Toluene-d8	80-115
BFB = Bromofluorobenzene	80-115
DCZ = 1,2-Dichlorobenzene-d4	85-120
	80-115

# Column to be used to flag recovery values

FORM III  
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12393-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: lhre03.d

Lab ID: LCS 200-44296/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	25.0	29.8	119	85-120	
1,1-Dichloroethene	25.0	26.8	107	85-120	
trans-1,2-Dichloroethene	25.0	25.5	102	85-120	
cis-1,2-Dichloroethene	25.0	25.0	100	85-120	
Trichloroethene	25.0	24.5	98	85-120	
Tetrachloroethene	25.0	26.1	104	85-120	

US EPA ARCHIVE DOCUMENT

# Column to be used to flag recovery and RPD values

FORM IV  
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: lhre05.d Lab Sample ID: MB 200-44296/5  
 Matrix: Water Heated Purge: (Y/N) N  
 Instrument ID: L.i Date Analyzed: 08/29/2012 22:36  
 GC Column: DB-624 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-44296/3	lhre03.d	08/29/2012 21:32
SUW-01	200-12393-1	lhre07.d	08/29/2012 23:41
TRIP BLANK	200-12393-2	lhre08.d	08/30/2012 00:13

**US EPA ARCHIVE DOCUMENT**

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: lhr01.d BFB Injection Date: 08/27/2012  
 Instrument ID: L.i BFB Injection Time: 10:57  
 Analysis Batch No.: 44069

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.4
75	30.0 - 60.0 % of mass 95	41.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	75.7
175	5.0 - 9.0 % of mass 174	5.4 (7.1) 1
176	95.0 - 101.0 % of mass 174	72.5 (95.8) 1
177	5.0 - 9.0 % of mass 176	4.7 (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 200-44069/3	lhr03.d	08/27/2012	11:42
	IC 200-44069/4	lhr04.d	08/27/2012	12:14
	IC 200-44069/5	lhr05.d	08/27/2012	12:47
	ICIS 200-44069/6	lhr06.d	08/27/2012	13:19
	IC 200-44069/7	lhr07.d	08/27/2012	13:51
	IC 200-44069/8	lhr08.d	08/27/2012	14:23
	ICV 200-44069/11	lhr11.d	08/27/2012	16:00

US EPA ARCHIVE DOCUMENT

FORM V  
GC/MS VOA INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: lhre01.d BFB Injection Date: 08/29/2012  
 Instrument ID: L.i BFB Injection Time: 20:37  
 Analysis Batch No.: 44296

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	42.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	73.9	
175	5.0 - 9.0 % of mass 174	5.1	(6.9) 1
176	95.0 - 101.0 % of mass 174	72.5	(98.0) 1
177	5.0 - 9.0 % of mass 176	5.1	(7.0) 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 200-44296/2	lhre02.d	08/29/2012	21:00
	LCS 200-44296/3	lhre03.d	08/29/2012	21:32
	MB 200-44296/5	lhre05.d	08/29/2012	22:36
SUW-01	200-12393-1	lhre07.d	08/29/2012	23:41
TRIP BLANK	200-12393-2	lhre08.d	08/30/2012	00:13

US EPA ARCHIVE DOCUMENT

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-44069/6 Date Analyzed: 08/27/2012 13:19  
 Instrument ID: L.i GC Column: DB-624 ID: 0.53(mm)  
 Lab File ID (Standard): lhr06.d Heated Purge: (Y/N) N  
 Calibration ID: 17305

	FB		CBZ		DCB	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	2774578	9.75	2187152	15.52	1195120	19.98
UPPER LIMIT	5549156	10.25	4374304	16.02	2390240	20.48
LOWER LIMIT	1387289	9.25	1093576	15.02	597560	19.48
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-44069/11	2793483	9.75	2183729	15.52	1194499	19.99

FB = Fluorobenzene  
 CBZ = Chlorobenzene-d5  
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

US EPA ARCHIVE DOCUMENT

FORM VIII  
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44296/2 Date Analyzed: 08/29/2012 21:00  
 Instrument ID: L.i GC Column: DB-624 ID: 0.53(mm)  
 Lab File ID (Standard): lhre02.d Heated Purge: (Y/N) N  
 Calibration ID: 17305

	FB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	2825582	9.74	2153088	15.51	1163974	19.99	
UPPER LIMIT	5651164	10.24	4306176	16.01	2327948	20.49	
LOWER LIMIT	1412791	9.24	1076544	15.01	581987	19.49	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44296/3	2819557	9.74	2151842	15.51	1181630	19.98	
MB 200-44296/5	2711768	9.74	2116047	15.51	1114394	19.98	
200-12393-1	SUW-01	2755730	9.74	2126531	15.51	1117394	19.98
200-12393-2	TRIP BLANK	2706597	9.74	2101136	15.50	1116413	19.98

FB = Fluorobenzene  
 CBZ = Chlorobenzene-d5  
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUW-01 Lab Sample ID: 200-12393-1  
 Matrix: Water Lab File ID: lhre07.d  
 Analysis Method: 8260B Date Collected: 08/22/2012 14:28  
 Sample wt/vol: 5(mL) Date Analyzed: 08/29/2012 23:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 8.8  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.53(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44296 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	8.8	U	8.8	0.79
75-35-4	1,1-Dichloroethene	8.8	U	8.8	1.6
156-60-5	trans-1,2-Dichloroethene	8.8	U	8.8	1.5
540-59-0	1,2-Dichloroethene, Total	21		8.8	2.8
156-59-2	cis-1,2-Dichloroethene	21		8.8	1.4
79-01-6	Trichloroethene	100		8.8	1.2
127-18-4	Tetrachloroethene	2.0	J	8.8	1.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4	94		80-115
2037-26-5	Toluene-d8	96		80-115
460-00-4	Bromofluorobenzene	97		85-120
2199-69-1	1,2-Dichlorobenzene-d4	90		80-115

US EPA ARCHIVE DOCUMENT

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: TRIP BLANK Lab Sample ID: 200-12393-2  
 Matrix: Water Lab File ID: lhre08.d  
 Analysis Method: 8260B Date Collected: 08/22/2012 00:00  
 Sample wt/vol: 5(mL) Date Analyzed: 08/30/2012 00:13  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.53(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44296 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.090
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.18
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	0.32
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
79-01-6	Trichloroethene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4	93		80-115
2037-26-5	Toluene-d8	97		80-115
460-00-4	Bromofluorobenzene	95		85-120
2199-69-1	1,2-Dichlorobenzene-d4	90		80-115

US EPA ARCHIVE DOCUMENT

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-44069/3	lhr03.d
Level 2	IC 200-44069/4	lhr04.d
Level 3	IC 200-44069/5	lhr05.d
Level 4	ICIS 200-44069/6	lhr06.d
Level 5	IC 200-44069/7	lhr07.d
Level 6	IC 200-44069/8	lhr08.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 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.6490 0.5679	0.5605	0.5729	0.5476	0.5690	Ave		0.5778			6.2		15.0				
Chloromethane	0.1761 0.1931	0.1576	0.1527	0.1611	0.1786	Ave		0.1699		0.1000	9.0		15.0				
Vinyl chloride	0.2741 0.2956	0.2569	0.2686	0.2720	0.2909	Ave		0.2764			5.2		15.0				
Bromomethane	0.0347 0.0638	0.0436	0.0439	0.0524	0.0569	Ave		0.0492			21.4	*	15.0				
Chloroethane	0.2215 0.1643	0.1885	0.1959	0.1880	0.1845	Ave		0.1905			9.7		15.0				
Trichlorofluoromethane	0.6701 0.5866	0.5957	0.6068	0.5829	0.6003	Ave		0.6071			5.3		15.0				
Acrolein	0.0348 0.0375	0.0380	0.0365	0.0347	0.0366	Ave		0.0364			3.8		15.0				
1,1-Dichloroethene	0.2911 0.2751	0.2691	0.2645	0.2639	0.2751	Ave		0.2731			3.7		15.0				
Freon TF	0.6421 0.6119	0.6225	0.5874	0.5953	0.6245	Ave		0.6140			3.3		15.0				
Acetone	0.0600 0.0539	0.0547	0.0544	0.0473	0.0553	Ave		0.0543			7.5		15.0				
Methyl iodide	0.1185 0.2488	0.1038	0.1124	0.1538	0.2107	Ave		0.1580			37.6	*	15.0				
Carbon disulfide	0.9274 0.7285	0.7429	0.7102	0.6995	0.7266	Ave		0.7558			11.3		15.0				
Allyl chloride	0.4850 0.4108	0.4217	0.4198	0.4120	0.4201	Ave		0.4282			6.6		15.0				
Methyl acetate	0.0537 0.0579	0.0535	0.0516	0.0525	0.0573	Ave		0.0544			4.7		15.0				
Methylene Chloride	0.3675 0.2879	0.2948	0.2826	0.2762	0.2848	Ave		0.2989			11.4		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

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 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
tert-Butyl alcohol	0.0239 0.0236	0.0229	0.0235	0.0214	0.0227	Ave		0.0230			3.8		15.0				
Acrylonitrile	0.0722 0.0697	0.0551	0.0668	0.0609	0.0694	Ave		0.0657			9.8		15.0				
trans-1,2-Dichloroethene	0.3293 0.3142	0.3062	0.3019	0.3022	0.3177	Ave		0.3119			3.4		15.0				
Methyl t-butyl ether	0.7434 0.6926	0.6741	0.6726	0.6628	0.6903	Ave		0.6893			4.2		15.0				
1,1-Dichloroethane	0.6622 0.6130	0.5986	0.5897	0.5841	0.6119	Ave		0.6099		0.1000	4.6		15.0				
Vinyl acetate	0.4190 0.4604	0.4666	0.4185	0.4232	0.4374	Ave		0.4375			4.9		15.0				
Chloroprene	0.4438 0.4368	0.4057	0.4105	0.4110	0.4339	Ave		0.4236			3.9		15.0				
2,2-Dichloropropane	0.5056 0.4362	0.4737	0.4441	0.4366	0.4420	Ave		0.4564			6.1		15.0				
cis-1,2-Dichloroethene	0.3530 0.3380	0.3252	0.3208	0.3213	0.3393	Ave		0.3329			3.8		15.0				
2-Butanone	0.0194 0.0261	0.0231	0.0248	0.0226	0.0253	Ave		0.0235			10.3		15.0				
Propionitrile	0.0195 0.0271	0.0250	0.0221	0.0224	0.0266	Ave		0.0238			12.4		15.0				
Methacrylonitrile	0.0986 0.0885	0.0814	0.0818	0.0816	0.0875	Ave		0.0866			7.7		15.0				
Bromochloromethane	0.2249 0.1686	0.2052	0.2018	0.2004	0.2037	Ave		0.2008			9.0		15.0				
Tetrahydrofuran	0.0899 0.0894	0.0877	0.0868	0.0824	0.0874	Ave		0.0873			3.0		15.0				
Chloroform	0.6735 0.5996	0.5927	0.5779	0.5768	0.5993	Ave		0.6033			5.9		15.0				
1,1,1-Trichloroethane	0.5254 0.5197	0.5110	0.4989	0.4995	0.5182	Ave		0.5121			2.1		15.0				
Cyclohexane	0.5481 0.5222	0.5181	0.4975	0.4963	0.5221	Ave		0.5174			3.7		15.0				
1,1-Dichloropropene	0.5177 0.5015	0.4747	0.4742	0.4733	0.4983	Ave		0.4899			3.8		15.0				
Carbon tetrachloride	0.4968 0.5065	0.4930	0.4814	0.4878	0.5111	Ave		0.4961			2.3		15.0				
Isobutyl alcohol	0.0117 0.0136	0.0123	0.0127	0.0119	0.0130	Ave		0.0125			5.6		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

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 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzene	0.9359 0.8968	0.8918	0.8490	0.8517	0.8915	Ave		0.8861			3.6		15.0				
1,2-Dichloroethane	0.3239 0.3191	0.3134	0.3063	0.3079	0.3220	Ave		0.3154			2.3		15.0				
Trichloroethene	0.4475 0.3978	0.3917	0.3768	0.3861	0.4025	Ave		0.4004			6.2		15.0				
Methylcyclohexane	0.4511 0.4645	0.4545	0.4272	0.4414	0.4629	Ave		0.4503			3.1		15.0				
1,2-Dichloropropane	0.4520 0.4021	0.3921	0.3835	0.3903	0.4013	Ave		0.4036			6.1		15.0				
Dibromomethane	0.3514 0.3460	0.3336	0.3311	0.3273	0.3448	Ave		0.3390			2.9		15.0				
Methyl methacrylate	0.2871 0.2901	0.2746	0.2827	0.2742	0.2891	Ave		0.2830			2.5		15.0				
1,4-Dioxane	0.0027 0.0033	0.0030	0.0030	0.0030	0.0032	Ave		0.0030			7.2		15.0				
Bromodichloromethane	0.6449 0.6465	0.6286	0.6125	0.6182	0.6418	Ave		0.6321			2.3		15.0				
2-Chloroethyl vinyl ether	0.1087 0.1716	0.1150	0.1229	0.1355	0.1552	Ave		0.1348			18.1	*	15.0				
cis-1,3-Dichloropropene	0.5602 0.5670	0.5373	0.5237	0.5365	0.5607	Ave		0.5476			3.2		15.0				
4-Methyl-2-pentanone	0.3799 0.3833	0.3727	0.3785	0.3515	0.3721	Ave		0.3730			3.1		15.0				
Toluene	0.8222 0.7883	0.7722	0.7638	0.7640	0.7884	Ave		0.7832			2.8		15.0				
trans-1,3-Dichloropropene	0.6276 0.6124	0.5905	0.5902	0.5827	0.6170	Ave		0.6034			3.0		15.0				
Ethyl methacrylate	0.4817 0.4863	0.4892	0.4520	0.4573	0.4811	Ave		0.4746			3.3		15.0				
1,1,2-Trichloroethane	0.3989 0.3830	0.3969	0.3814	0.3700	0.3875	Ave		0.3863			2.8		15.0				
Tetrachloroethene	0.6201 0.6179	0.6055	0.5944	0.5921	0.6225	Ave		0.6088			2.2		15.0				
1,3-Dichloropropane	0.7511 0.7246	0.7120	0.7082	0.6916	0.7283	Ave		0.7193			2.8		15.0				
2-Hexanone	0.2852 0.3175	0.3012	0.3141	0.2883	0.3111	Ave		0.3029			4.5		15.0				
Dibromochloromethane	0.7549 0.7549	0.7234	0.7140	0.7210	0.7614	Ave		0.7383			2.8		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

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 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromoethane	0.6749 0.6686	0.6463	0.6451	0.6379	0.6692	Ave		0.6570			2.4		15.0				
Chlorobenzene	1.0885 1.0235	1.0237	0.9861	0.9833	1.0201	Ave		1.0209		0.3000	3.7		15.0				
1,1,1,2-Tetrachloroethane	0.5491 0.5335	0.5273	0.5176	0.5165	0.5397	Ave		0.5306			2.4		15.0				
Ethylbenzene	1.6754 1.6367	1.5754	1.5513	1.5557	1.6213	Ave		1.6027			3.1		15.0				
m&p-Xylene	0.5983 0.5890	0.5662	0.5546	0.5615	0.5911	Ave		0.5768			3.2		15.0				
o-Xylene	0.5931 0.5623	0.5607	0.5514	0.5447	0.5659	Ave		0.5630			3.0		15.0				
Styrene	0.9753 1.0069	0.9525	0.9378	0.9494	1.0059	Ave		0.9713			3.1		15.0				
Bromoform	0.5617 0.6093	0.5700	0.5669	0.5699	0.6060	Ave		0.5806		0.1000	3.6		15.0				
Isopropylbenzene	3.1538 2.8730	2.9277	2.7930	2.7709	2.8486	Ave		2.8945			4.8		15.0				
Bromobenzene	1.0626 0.9801	0.9936	0.9530	0.9628	0.9731	Ave		0.9876			4.0		15.0				
1,1,2,2-Tetrachloroethane	1.5703 1.3273	1.3798	1.3109	1.2757	1.3085	Ave		1.3621		0.3000	7.9		15.0				
1,2,3-Trichloropropane	0.4667 0.3208	0.3429	0.3322	0.3109	0.3245	Ave		0.3497			16.7	*	15.0				
trans-1,4-Dichloro-2-butene	0.1934 0.2223	0.2219	0.2013	0.2101	0.2165	Ave		0.2109			5.5		15.0				
n-Propylbenzene	0.8186 0.7274	0.7259	0.6951	0.7127	0.7271	Ave		0.7345			5.9		15.0				
2-Chlorotoluene	0.7671 0.6682	0.7039	0.6565	0.6539	0.6741	Ave		0.6873			6.3		15.0				
1,3,5-Trimethylbenzene	2.1862 2.0823	2.0902	1.9951	1.9978	2.0744	Ave		2.0710			3.4		15.0				
4-Chlorotoluene	0.7964 0.7102	0.7013	0.6759	0.6801	0.7049	Ave		0.7115			6.2		15.0				
tert-Butylbenzene	2.4380 2.2234	2.2936	2.1714	2.1682	2.2225	Ave		2.2529			4.5		15.0				
1,2,4-Trimethylbenzene	2.2270 2.0822	2.0755	1.9749	2.0142	2.0661	Ave		2.0733			4.1		15.0				
sec-Butylbenzene	3.0212 2.9436	2.9272	2.7715	2.8131	2.9084	Ave		2.8975			3.1		15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

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 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	1.5807 1.4755	1.4550	1.4131	1.4005	1.4610	Ave		1.4643			4.4		15.0				
4-Isopropyltoluene	2.5161 2.3864	2.3430	2.1955	2.2736	2.3544	Ave		2.3448			4.6		15.0				
1,4-Dichlorobenzene	1.7227 1.5812	1.5747	1.5321	1.5715	1.6037	Ave		1.5976			4.1		15.0				
1,2-Dichlorobenzene	1.6005 1.4236	1.3979	1.3371	1.3550	1.4189	Ave		1.4222			6.6		15.0				
n-Butylbenzene	2.0581 2.0583	1.9753	1.8079	1.9321	2.0266	Ave		1.9764			4.9		15.0				
1,2-Dibromo-3-Chloropropane	0.2214 0.2267	0.2248	0.2315	0.2219	0.2283	Ave		0.2258			1.7		15.0				
1,2,4-Trichlorobenzene	1.0731 0.9999	0.9112	0.8765	0.9215	0.9675	Ave		0.9583			7.4		15.0				
Hexachlorobutadiene	0.5241 0.4887	0.4937	0.4492	0.4691	0.4920	Ave		0.4861			5.2		15.0				
Naphthalene	1.5239 1.5787	1.4768	1.4326	1.4494	1.5376	Ave		1.4998			3.7		15.0				
1,2,3-Trichlorobenzene	0.7968 0.8332	0.7892	0.7420	0.7827	0.8121	Ave		0.7927			3.9		15.0				
1,2-Dichloroethane-d4	0.2989 0.2672	0.2681	0.2604	0.2802	0.2722	Ave		0.2745			5.0		15.0				
Toluene-d8	1.1918 1.1681	1.1493	1.1220	1.1221	1.1650	Ave		1.1530			2.4		15.0				
Bromofluorobenzene	1.6021 1.3721	1.4046	1.3571	1.3391	1.3677	Ave		1.4071			7.0		15.0				
1,2-Dichlorobenzene-d4	1.3781 0.9432	1.0020	0.9435	0.9226	0.9424	Ave		1.0220			17.3	*	15.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-44069/3	lhr03.d
Level 2	IC 200-44069/4	lhr04.d
Level 3	IC 200-44069/5	lhr05.d
Level 4	ICIS 200-44069/6	lhr06.d
Level 5	IC 200-44069/7	lhr07.d
Level 6	IC 200-44069/8	lhr08.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	67651 6319618	295998	623393	1519237	3126264	1.00 100	5.00	10.0	25.0	50.0
Chloromethane	FB	Ave	18362 2148604	83229	166223	446892	981289	1.00 100	5.00	10.0	25.0	50.0
Vinyl chloride	FB	Ave	28577 3290285	135678	292252	754740	1598408	1.00 100	5.00	10.0	25.0	50.0
Bromomethane	FB	Ave	3612 710476	23010	47747	145276	312759	1.00 100	5.00	10.0	25.0	50.0
Chloroethane	FB	Ave	23085 1828492	99577	213184	521719	1013930	1.00 100	5.00	10.0	25.0	50.0
Trichlorofluoromethane	FB	Ave	69850 6528755	314582	660359	1617235	3298055	1.00 100	5.00	10.0	25.0	50.0
Acrolein	FB	Ave	18146 2088784	100446	198543	481516	1004314	5.00 500	25.0	50.0	125	250
1,1-Dichloroethene	FB	Ave	30349 3061492	142120	287794	732308	1511362	1.00 100	5.00	10.0	25.0	50.0
Freon TF	FB	Ave	66939 6810332	328762	639188	1651804	3431020	1.00 100	5.00	10.0	25.0	50.0
Acetone	FB	Ave	31255 2998982	144329	296101	656649	1520184	5.00 500	25.0	50.0	125	250
Methyl iodide	FB	Ave	12355 2768390	54833	122316	426644	1157444	1.00 100	5.00	10.0	25.0	50.0
Carbon disulfide	FB	Ave	96672 8107031	392323	772851	1940948	3991788	1.00 100	5.00	10.0	25.0	50.0
Allyl chloride	FB	Ave	50553 4571284	222707	456880	1143258	2308216	1.00 100	5.00	10.0	25.0	50.0
Methyl acetate	FB	Ave	5596 643966	28252	56162	145659	314831	1.00 100	5.00	10.0	25.0	50.0
Methylene Chloride	FB	Ave	38304 3203565	155667	307486	766256	1564536	1.00 100	5.00	10.0	25.0	50.0
tert-Butyl alcohol	FB	Ave	124366 5254554	242104	510526	1188619	2495123	50.0 2000	100	200	500	1000



FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acrylonitrile	FB	Ave	7523 775325	29084	72724	169066	381384	1.00 100	5.00	10.0	25.0	50.0
trans-1,2-Dichloroethene	FB	Ave	34325 3496670	161694	328561	838544	1745303	1.00 100	5.00	10.0	25.0	50.0
Methyl t-butyl ether	FB	Ave	77496 7708390	356010	731905	1839002	3792654	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloroethane	FB	Ave	69026 6822191	316152	641665	1620679	3361584	1.00 100	5.00	10.0	25.0	50.0
Vinyl acetate	FB	Ave	43680 5123380	246437	455454	1174190	2403088	1.00 100	5.00	10.0	25.0	50.0
Chloroprene	FB	Ave	46264 4861653	214287	446729	1140279	2383732	1.00 100	5.00	10.0	25.0	50.0
2,2-Dichloropropane	FB	Ave	52710 4854697	250199	483280	1211423	2428613	1.00 100	5.00	10.0	25.0	50.0
cis-1,2-Dichloroethene	FB	Ave	36796 3761574	171748	349064	891401	1864381	1.00 100	5.00	10.0	25.0	50.0
2-Butanone	FB	Ave	10104 1450667	61070	135084	312886	694812	5.00 500	25.0	50.0	125	250
Propionitrile	FB	Ave	8131 1208043	52710	96397	248732	583614	4.00 400	20.0	40.0	100	200
Methacrylonitrile	FB	Ave	10275 984945	42980	89032	226493	480932	1.00 100	5.00	10.0	25.0	50.0
Bromochloromethane	FB	Ave	23443 1875886	108397	219639	555940	1118951	1.00 100	5.00	10.0	25.0	50.0
Tetrahydrofuran	FB	Ave	131131 13929538	648474	1322433	3201835	6723969	14.0 1400	70.0	140	350	700
Chloroform	FB	Ave	70202 6673239	313007	628843	1600239	3292363	1.00 100	5.00	10.0	25.0	50.0
1,1,1-Trichloroethane	FB	Ave	54774 5783390	269856	542954	1385960	2847087	1.00 100	5.00	10.0	25.0	50.0
Cyclohexane	FB	Ave	57138 5811895	273627	541373	1377147	2868243	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloropropene	FB	Ave	53969 5581501	250701	516036	1313126	2737446	1.00 100	5.00	10.0	25.0	50.0
Carbon tetrachloride	FB	Ave	51791 5637169	260363	523833	1353431	2808225	1.00 100	5.00	10.0	25.0	50.0
Isobutyl alcohol	FB	Ave	61194 7556503	324850	692698	1646879	3569384	50.0 5000	250	500	1250	2500
Benzene	FB	Ave	97565 9980762	470957	923892	2362970	4897715	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane	FB	Ave	33764 3551073	165537	333264	854384	1769220	1.00 100	5.00	10.0	25.0	50.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	46644 4426574	206847	410022	1071232	2211220	1.00 100	5.00	10.0	25.0	50.0
Methylcyclohexane	FB	Ave	47019 5169872	240012	464873	1224812	2543178	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloropropane	FB	Ave	47120 4475240	207081	417361	1082787	2204912	1.00 100	5.00	10.0	25.0	50.0
Dibromomethane	FB	Ave	36630 3850266	176158	360264	907983	1894598	1.00 100	5.00	10.0	25.0	50.0
Methyl methacrylate	CBZ	Ave	23440 2577814	112470	237765	599738	1251032	1.00 100	5.00	10.0	25.0	50.0
1,4-Dioxane	FB	Ave	14056 1839988	78345	160561	418925	886964	50.0 5000	250	500	1250	2500
Bromodichloromethane	FB	Ave	67230 7195116	332003	666498	1715235	3525929	1.00 100	5.00	10.0	25.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	11330 1910037	60755	133708	376081	852876	1.00 100	5.00	10.0	25.0	50.0
cis-1,3-Dichloropropene	FB	Ave	58399 6310234	283738	569862	1488605	3080365	1.00 100	5.00	10.0	25.0	50.0
4-Methyl-2-pentanone	FB	Ave	197989 21329846	984101	2059593	4876155	10220377	5.00 500	25.0	50.0	125	250
Toluene	CBZ	Ave	67130 7004752	316274	642463	1670960	3411398	1.00 100	5.00	10.0	25.0	50.0
trans-1,3-Dichloropropene	CBZ	Ave	51241 5441531	241844	496432	1274372	2669677	1.00 100	5.00	10.0	25.0	50.0
Ethyl methacrylate	FB	Ave	50214 5411957	258370	491853	1268837	2643176	1.00 100	5.00	10.0	25.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	32567 3403593	162555	320838	809215	1676778	1.00 100	5.00	10.0	25.0	50.0
Tetrachloroethene	CBZ	Ave	50627 5490279	248002	500017	1294993	2693489	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichloropropane	CBZ	Ave	61325 6439009	291592	595689	1512713	3151370	1.00 100	5.00	10.0	25.0	50.0
2-Hexanone	CBZ	Ave	116426 14105312	616705	1321040	3152502	6730480	5.00 500	25.0	50.0	125	250
Dibromochloromethane	CBZ	Ave	61638 6708260	296251	600608	1576937	3294286	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromoethane	CBZ	Ave	55103 5941108	264701	542648	1395276	2895444	1.00 100	5.00	10.0	25.0	50.0
Chlorobenzene	CBZ	Ave	88871 9095073	419272	829523	2150632	4413930	1.00 100	5.00	10.0	25.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	44833 4741006	215966	435372	1129689	2335082	1.00 100	5.00	10.0	25.0	50.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	136797 14543789	645221	1304948	3402604	7014974	1.00 100	5.00	10.0	25.0	50.0
m&p-Xylene	CBZ	Ave	97699 10468391	463794	933092	2456383	5115037	2.00 200	10.0	20.0	50.0	100
o-Xylene	CBZ	Ave	48426 4996302	229645	463845	1191393	2448704	1.00 100	5.00	10.0	25.0	50.0
Styrene	CBZ	Ave	79629 8946952	390096	788899	2076461	4352103	1.00 100	5.00	10.0	25.0	50.0
Bromoform	CBZ	Ave	45861 5414461	233449	476873	1246370	2621829	1.00 100	5.00	10.0	25.0	50.0
Isopropylbenzene	DCB	Ave	135067 14246578	637257	1274062	3311597	6882773	1.00 100	5.00	10.0	25.0	50.0
Bromobenzene	DCB	Ave	45510 4860214	216266	434747	1150696	2351154	1.00 100	5.00	10.0	25.0	50.0
1,1,2,2-Tetrachloroethane	DCB	Ave	67252 6581643	300327	597991	1524607	3161443	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichloropropane	DCB	Ave	19988 1590813	74646	151548	371515	784042	1.00 100	5.00	10.0	25.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Ave	8283 1102246	48294	91846	251109	523171	1.00 100	5.00	10.0	25.0	50.0
n-Propylbenzene	DCB	Ave	35058 3607161	158005	317084	851765	1756816	1.00 100	5.00	10.0	25.0	50.0
2-Chlorotoluene	DCB	Ave	32854 3313649	153217	299492	781438	1628620	1.00 100	5.00	10.0	25.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	93629 10325807	454977	910113	2387608	5012201	1.00 100	5.00	10.0	25.0	50.0
4-Chlorotoluene	DCB	Ave	34108 3521896	152658	308331	812755	1703048	1.00 100	5.00	10.0	25.0	50.0
tert-Butylbenzene	DCB	Ave	104413 11025237	499244	990542	2591220	5369973	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	95375 10324851	451771	900879	2407232	4992053	1.00 100	5.00	10.0	25.0	50.0
sec-Butylbenzene	DCB	Ave	129390 14596665	637165	1264289	3361965	7027265	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichlorobenzene	DCB	Ave	67696 7316559	316708	644593	1673753	3529965	1.00 100	5.00	10.0	25.0	50.0
4-Isopropyltoluene	DCB	Ave	107757 11833681	509995	1001527	2717225	5688609	1.00 100	5.00	10.0	25.0	50.0
1,4-Dichlorobenzene	DCB	Ave	73777 7840541	342767	698876	1878156	3874900	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichlorobenzene	DCB	Ave	68543 7059466	304272	609954	1619338	3428395	1.00 100	5.00	10.0	25.0	50.0

FORM VI  
GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12393-1 Analy Batch No.: 44069

SDG No.: \_\_\_\_\_

Instrument ID: L.i GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2012 11:42 Calibration End Date: 08/27/2012 14:23 Calibration ID: 17305

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	88143 10206480	429965	824726	2309051	4896706	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	9482 1124085	48937	105623	265166	551726	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	45956 4958058	198338	399847	1101247	2337754	1.00 100	5.00	10.0	25.0	50.0
Hexachlorobutadiene	DCB	Ave	22444 2423328	107456	204896	560586	1188758	1.00 100	5.00	10.0	25.0	50.0
Naphthalene	DCB	Ave	65262 7828374	321455	653513	1732255	3715163	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichlorobenzene	DCB	Ave	34125 4131370	171788	338493	935366	1962084	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane-d4	FB	Ave	31163 2973209	141583	283388	777400	1495761	1.00 100	5.00	10.0	25.0	50.0
Toluene-d8	CBZ	Ave	97312 10379204	470677	943845	2454103	5040651	1.00 100	5.00	10.0	25.0	50.0
Bromofluorobenzene	DCB	Ave	68612 6803825	305738	619050	1600332	3304544	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichlorobenzene-d4	DCB	Ave	59021 4676833	218095	430400	1102627	2276990	1.00 100	5.00	10.0	25.0	50.0

Curve Type Legend:

Ave = Average ISTD

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-44069/11 Calibration Date: 08/27/2012 16:00  
 Instrument ID: L.i Calib Start Date: 08/27/2012 11:42  
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 08/27/2012 14:23  
 Lab File ID: lhr11.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5778	0.4670		20.2	25.0	-19.2	25.0
Chloromethane	Ave	0.1699	0.1350	0.1000	19.9	25.0	-20.5	25.0
Vinyl chloride	Ave	0.2764	0.3111		28.1	25.0	12.6	25.0
Bromomethane	Ave	0.0492	0.0637		32.4	25.0	29.5*	25.0
Chloroethane	Ave	0.1905	0.1730		22.7	25.0	-9.2	25.0
Trichlorofluoromethane	Ave	0.6071	0.5798		23.9	25.0	-4.5	25.0
Acrolein	Ave	0.0364	0.0244		83.8	125	-32.9*	25.0
1,1-Dichloroethene	Ave	0.2731	0.2903		26.6	25.0	6.3	25.0
Freon TF	Ave	0.6140	0.5417		22.1	25.0	-11.8	25.0
Acetone	Ave	0.0543	0.0502		116	125	-7.5	25.0
Methyl iodide	Ave	0.1580	0.1362		21.6	25.0	-13.8	25.0
Carbon disulfide	Ave	0.7558	0.6424		21.2	25.0	-15.0	25.0
Allyl chloride	Ave	0.4282	0.4896		28.6	25.0	14.3	25.0
Methyl acetate	Ave	0.0544	0.0483		22.2	25.0	-11.3	25.0
Methylene Chloride	Ave	0.2989	0.2895		24.2	25.0	-3.2	25.0
tert-Butyl alcohol	Ave	0.0230	0.0208		452	500	-9.6	25.0
Acrylonitrile	Ave	0.0657	0.0660		25.1	25.0	0.4	25.0
trans-1,2-Dichloroethene	Ave	0.3119	0.3144		25.2	25.0	0.8	25.0
Methyl t-butyl ether	Ave	0.6893	0.6624		24.0	25.0	-3.9	25.0
1,1-Dichloroethane	Ave	0.6099	0.5945	0.1000	24.4	25.0	-2.5	25.0
Vinyl acetate	Ave	0.4375	0.4904		28.0	25.0	12.1	25.0
Chloroprene	Ave	0.4236	0.4185		24.7	25.0	-1.2	25.0
2,2-Dichloropropane	Ave	0.4564	0.4109		22.5	25.0	-10.0	25.0
cis-1,2-Dichloroethene	Ave	0.3329	0.3282		24.6	25.0	-1.4	25.0
2-Butanone	Ave	0.0235	0.0237		126	125	0.4	25.0
Propionitrile	Ave	0.0238	0.0242		102	100	1.5	25.0
Methacrylonitrile	Ave	0.0866	0.0827		23.9	25.0	-4.5	25.0
Bromochloromethane	Ave	0.2008	0.2091		26.0	25.0	4.1	25.0
Tetrahydrofuran	Ave	0.0873	0.0831		333	350	-4.8	25.0
Chloroform	Ave	0.6033	0.5879		24.4	25.0	-2.5	25.0
1,1,1-Trichloroethane	Ave	0.5121	0.5160		25.2	25.0	0.8	25.0
Cyclohexane	Ave	0.5174	0.5192		25.1	25.0	0.4	25.0
1,1-Dichloropropene	Ave	0.4899	0.4917		25.1	25.0	0.4	25.0
Carbon tetrachloride	Ave	0.4961	0.5029		25.3	25.0	1.4	25.0
Isobutyl alcohol	Ave	0.0125	0.0126		1250	1250	0.1	25.0
Benzene	Ave	0.8861	0.8763		24.7	25.0	-1.1	25.0
1,2-Dichloroethane	Ave	0.3154	0.3149		25.0	25.0	-0.2	25.0
Trichloroethene	Ave	0.4004	0.4007		25.0	25.0	0.0	25.0
Methylcyclohexane	Ave	0.4503	0.4501		25.0	25.0	-0.0	25.0
1,2-Dichloropropane	Ave	0.4036	0.3829		23.7	25.0	-5.1	25.0
Dibromomethane	Ave	0.3390	0.3238		23.9	25.0	-4.5	25.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-44069/11 Calibration Date: 08/27/2012 16:00  
 Instrument ID: L.i Calib Start Date: 08/27/2012 11:42  
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 08/27/2012 14:23  
 Lab File ID: lhr11.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl methacrylate	Ave	0.2830	0.2873		25.4	25.0	1.5	25.0
1,4-Dioxane	Ave	0.0030	0.0030		1240	1250	-0.7	25.0
Bromodichloromethane	Ave	0.6321	0.6050		23.9	25.0	-4.3	25.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1382		25.6	25.0	2.5	25.0
cis-1,3-Dichloropropene	Ave	0.5476	0.5532		25.3	25.0	1.0	25.0
4-Methyl-2-pentanone	Ave	0.3730	0.3538		119	125	-5.1	25.0
Toluene	Ave	0.7832	0.7735		24.7	25.0	-1.2	25.0
trans-1,3-Dichloropropene	Ave	0.6034	0.5877		24.3	25.0	-2.6	25.0
Ethyl methacrylate	Ave	0.4746	0.4810		25.3	25.0	1.3	25.0
1,1,2-Trichloroethane	Ave	0.3863	0.3724		24.1	25.0	-3.6	25.0
Tetrachloroethene	Ave	0.6088	0.6025		24.7	25.0	-1.0	25.0
1,3-Dichloropropane	Ave	0.7193	0.7022		24.4	25.0	-2.4	25.0
2-Hexanone	Ave	0.3029	0.3010		124	125	-0.6	25.0
Dibromochloromethane	Ave	0.7383	0.7425		25.1	25.0	0.6	25.0
1,2-Dibromoethane	Ave	0.6570	0.6486		24.7	25.0	-1.3	25.0
Chlorobenzene	Ave	1.021	0.9922	0.3000	24.3	25.0	-2.8	25.0
1,1,1,2-Tetrachloroethane	Ave	0.5306	0.5253		24.7	25.0	-1.0	25.0
Ethylbenzene	Ave	1.603	1.581		24.7	25.0	-1.4	25.0
m&p-Xylene	Ave	0.5768	0.5706		49.5	50.0	-1.1	25.0
o-Xylene	Ave	0.5630	0.5518		24.5	25.0	-2.0	25.0
Styrene	Ave	0.9713	0.9599		24.7	25.0	-1.2	25.0
Bromoform	Ave	0.5806	0.5738	0.1000	24.7	25.0	-1.2	25.0
Isopropylbenzene	Ave	2.895	2.823		24.4	25.0	-2.5	25.0
Bromobenzene	Ave	0.9876	0.9606		24.3	25.0	-2.7	25.0
1,1,2,2-Tetrachloroethane	Ave	1.362	1.257	0.3000	23.1	25.0	-7.7	25.0
1,2,3-Trichloropropane	Ave	0.3497	0.3205		22.9	25.0	-8.4	25.0
trans-1,4-Dichloro-2-butene	Ave	0.2109	0.2252		26.7	25.0	6.7	25.0
n-Propylbenzene	Ave	0.7345	0.7094		24.1	25.0	-3.4	25.0
2-Chlorotoluene	Ave	0.6873	0.6576		23.9	25.0	-4.3	25.0
1,3,5-Trimethylbenzene	Ave	2.071	2.022		24.4	25.0	-2.4	25.0
4-Chlorotoluene	Ave	0.7115	0.6865		24.1	25.0	-3.5	25.0
tert-Butylbenzene	Ave	2.253	2.186		24.3	25.0	-3.0	25.0
1,2,4-Trimethylbenzene	Ave	2.073	1.999		24.1	25.0	-3.6	25.0
sec-Butylbenzene	Ave	2.898	2.828		24.4	25.0	-2.4	25.0
1,3-Dichlorobenzene	Ave	1.464	1.412		24.1	25.0	-3.6	25.0
4-Isopropyltoluene	Ave	2.345	2.191		23.4	25.0	-6.6	25.0
1,4-Dichlorobenzene	Ave	1.598	1.535		24.0	25.0	-3.9	25.0
1,2-Dichlorobenzene	Ave	1.422	1.353		23.8	25.0	-4.8	25.0
n-Butylbenzene	Ave	1.976	1.896		24.0	25.0	-4.1	25.0
1,2-Dibromo-3-Chloropropane	Ave	0.2258	0.2158		23.9	25.0	-4.4	25.0
1,2,4-Trichlorobenzene	Ave	0.9583	0.8834		23.0	25.0	-7.8	25.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-44069/11 Calibration Date: 08/27/2012 16:00  
 Instrument ID: L.i Calib Start Date: 08/27/2012 11:42  
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 08/27/2012 14:23  
 Lab File ID: lhr11.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.4861	0.4788		24.6	25.0	-1.5	25.0
Naphthalene	Ave	1.500	1.428		23.8	25.0	-4.8	25.0
1,2,3-Trichlorobenzene	Ave	0.7927	0.7876		24.8	25.0	-0.6	25.0
1,2-Dichloroethane-d4	Ave	0.2745	0.2559		23.3	25.0	-6.8	25.0
Toluene-d8	Ave	1.153	1.094		23.7	25.0	-5.1	25.0
Bromofluorobenzene	Ave	1.407	1.329		23.6	25.0	-5.6	25.0
1,2-Dichlorobenzene-d4	Ave	1.022	0.9170		22.4	25.0	-10.3	25.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44296/2 Calibration Date: 08/29/2012 21:00  
 Instrument ID: L.i Calib Start Date: 08/27/2012 11:42  
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 08/27/2012 14:23  
 Lab File ID: lhre02.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.5778	0.5462		23.6	25.0	-5.5	20.0
Chloromethane	Ave	0.1699	0.2072	0.1000	30.5	25.0	21.9*	20.0
Vinyl chloride	Ave	0.2764	0.3044		27.5	25.0	10.1	20.0
Bromomethane	Ave	0.0492	0.1001		50.9	25.0	103.4*	20.0
Chloroethane	Ave	0.1905	0.1873		24.6	25.0	-1.6	20.0
Trichlorofluoromethane	Ave	0.6071	0.5853		24.1	25.0	-3.6	20.0
Acrolein	Ave	0.0364	0.0359		123	125	-1.3	20.0
1,1-Dichloroethene	Ave	0.2731	0.2693		24.6	25.0	-1.4	20.0
Freon TF	Ave	0.6140	0.6096		24.8	25.0	-0.7	20.0
Acetone	Ave	0.0543	0.0504		116	125	-7.1	20.0
Methyl iodide	Ave	0.1580	0.2062		32.6	25.0	30.5*	20.0
Carbon disulfide	Ave	0.7558	0.7408		24.5	25.0	-2.0	20.0
Allyl chloride	Ave	0.4282	0.4446		26.0	25.0	3.8	20.0
Methyl acetate	Ave	0.0544	0.0507		23.3	25.0	-6.8	20.0
Methylene Chloride	Ave	0.2989	0.2748		23.0	25.0	-8.1	20.0
tert-Butyl alcohol	Ave	0.0230	0.0213		463	500	-7.5	20.0
Acrylonitrile	Ave	0.0657	0.0614		23.4	25.0	-6.5	20.0
trans-1,2-Dichloroethene	Ave	0.3119	0.3148		25.2	25.0	0.9	20.0
Methyl t-butyl ether	Ave	0.6893	0.6495		23.6	25.0	-5.8	20.0
1,1-Dichloroethane	Ave	0.6099	0.5906	0.1000	24.2	25.0	-3.2	20.0
Vinyl acetate	Ave	0.4375	0.4809		27.5	25.0	9.9	20.0
Chloroprene	Ave	0.4236	0.4327		25.5	25.0	2.1	20.0
2,2-Dichloropropane	Ave	0.4564	0.4725		25.9	25.0	3.5	20.0
cis-1,2-Dichloroethene	Ave	0.3329	0.3276		24.6	25.0	-1.6	20.0
2-Butanone	Ave	0.0235	0.0233		124	125	-1.0	20.0
Propionitrile	Ave	0.0238	0.0228		96.0	100	-4.0	20.0
Methacrylonitrile	Ave	0.0866	0.0818		23.6	25.0	-5.5	20.0
Bromochloromethane	Ave	0.2008	0.1978		24.6	25.0	-1.5	20.0
Tetrahydrofuran	Ave	0.0873	0.0810		325	350	-7.1	20.0
Chloroform	Ave	0.6033	0.5725		23.7	25.0	-5.1	20.0
1,1,1-Trichloroethane	Ave	0.5121	0.5123		25.0	25.0	0.0	20.0
Cyclohexane	Ave	0.5174	0.5132		24.8	25.0	-0.8	20.0
1,1-Dichloropropene	Ave	0.4899	0.4927		25.1	25.0	0.6	20.0
Carbon tetrachloride	Ave	0.4961	0.4997		25.2	25.0	0.7	20.0
Isobutyl alcohol	Ave	0.0125	0.0119		1190	1250	-5.1	20.0
Benzene	Ave	0.8861	0.8684		24.5	25.0	-2.0	20.0
1,2-Dichloroethane	Ave	0.3154	0.3023		24.0	25.0	-4.2	20.0
Trichloroethene	Ave	0.4004	0.3897		24.3	25.0	-2.7	20.0
Methylcyclohexane	Ave	0.4503	0.4675		26.0	25.0	3.8	20.0
1,2-Dichloropropane	Ave	0.4036	0.3804		23.6	25.0	-5.7	20.0
Dibromomethane	Ave	0.3390	0.3233		23.8	25.0	-4.6	20.0



FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44296/2 Calibration Date: 08/29/2012 21:00  
 Instrument ID: L.i Calib Start Date: 08/27/2012 11:42  
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 08/27/2012 14:23  
 Lab File ID: lhre02.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl methacrylate	Ave	0.2830	0.2778		24.5	25.0	-1.8	20.0
1,4-Dioxane	Ave	0.0030	0.0029		1190	1250	-4.9	20.0
Bromodichloromethane	Ave	0.6321	0.6040		23.9	25.0	-4.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1348	0.1518		28.2	25.0	12.6	20.0
cis-1,3-Dichloropropene	Ave	0.5476	0.5370		24.5	25.0	-1.9	20.0
4-Methyl-2-pentanone	Ave	0.3730	0.3466		116	125	-7.1	20.0
Toluene	Ave	0.7832	0.7931		25.3	25.0	1.3	20.0
trans-1,3-Dichloropropene	Ave	0.6034	0.6060		25.1	25.0	0.4	20.0
Ethyl methacrylate	Ave	0.4746	0.4469		23.5	25.0	-5.8	20.0
1,1,2-Trichloroethane	Ave	0.3863	0.3761		24.3	25.0	-2.6	20.0
Tetrachloroethene	Ave	0.6088	0.6264		25.7	25.0	2.9	20.0
1,3-Dichloropropane	Ave	0.7193	0.6997		24.3	25.0	-2.7	20.0
2-Hexanone	Ave	0.3029	0.2977		123	125	-1.7	20.0
Dibromochloromethane	Ave	0.7383	0.7170		24.3	25.0	-2.9	20.0
1,2-Dibromoethane	Ave	0.6570	0.6386		24.3	25.0	-2.8	20.0
Chlorobenzene	Ave	1.021	0.9945	0.3000	24.4	25.0	-2.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5306	0.5254		24.8	25.0	-1.0	20.0
Ethylbenzene	Ave	1.603	1.624		25.3	25.0	1.3	20.0
m&p-Xylene	Ave	0.5768	0.5828		50.5	50.0	1.0	20.0
o-Xylene	Ave	0.5630	0.5569		24.7	25.0	-1.1	20.0
Styrene	Ave	0.9713	0.9676		24.9	25.0	-0.4	20.0
Bromoform	Ave	0.5806	0.5686	0.1000	24.5	25.0	-2.1	20.0
Isopropylbenzene	Ave	2.895	2.967		25.6	25.0	2.5	20.0
Bromobenzene	Ave	0.9876	0.9806		24.8	25.0	-0.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.362	1.322	0.3000	24.3	25.0	-2.9	20.0
1,2,3-Trichloropropane	Ave	0.3497	0.3215		23.0	25.0	-8.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2109	0.2438		28.9	25.0	15.6	20.0
n-Propylbenzene	Ave	0.7345	0.7600		25.9	25.0	3.5	20.0
2-Chlorotoluene	Ave	0.6873	0.6732		24.5	25.0	-2.1	20.0
4-Chlorotoluene	Ave	0.7115	0.6929		24.3	25.0	-2.6	20.0
1,3,5-Trimethylbenzene	Ave	2.071	2.103		25.4	25.0	1.5	20.0
tert-Butylbenzene	Ave	2.253	2.313		25.7	25.0	2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.073	2.071		25.0	25.0	-0.1	20.0
sec-Butylbenzene	Ave	2.898	3.039		26.2	25.0	4.9	20.0
1,3-Dichlorobenzene	Ave	1.464	1.436		24.5	25.0	-1.9	20.0
4-Isopropyltoluene	Ave	2.345	2.444		26.1	25.0	4.2	20.0
1,4-Dichlorobenzene	Ave	1.598	1.596		25.0	25.0	-0.1	20.0
1,2-Dichlorobenzene	Ave	1.422	1.391		24.5	25.0	-2.2	20.0
n-Butylbenzene	Ave	1.976	2.095		26.5	25.0	6.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2258	0.2289		25.3	25.0	1.4	20.0
1,2,4-Trichlorobenzene	Ave	0.9583	0.9300		24.3	25.0	-2.9	20.0

FORM VII  
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44296/2 Calibration Date: 08/29/2012 21:00  
 Instrument ID: L.i Calib Start Date: 08/27/2012 11:42  
 GC Column: DB-624 ID: 0.53 (mm) Calib End Date: 08/27/2012 14:23  
 Lab File ID: lhre02.d Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Hexachlorobutadiene	Ave	0.4861	0.5248		27.0	25.0	8.0	20.0
Naphthalene	Ave	1.500	1.464		24.4	25.0	-2.4	20.0
1,2,3-Trichlorobenzene	Ave	0.7927	0.7808		24.6	25.0	-1.5	20.0
1,2-Dichloroethane-d4	Ave	0.2745	0.2748		25.0	25.0	0.0	20.0
Toluene-d8	Ave	1.153	1.160		25.2	25.0	0.6	20.0
Bromofluorobenzene	Ave	1.407	1.396		24.8	25.0	-0.8	20.0
1,2-Dichlorobenzene-d4	Ave	1.022	0.9413		23.0	25.0	-7.9	20.0

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44296/5  
 Matrix: Water Lab File ID: lhre05.d  
 Analysis Method: 8260B Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 08/29/2012 22:36  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.53(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44296 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	1.0	U	1.0	0.090
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.18
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.17
540-59-0	1,2-Dichloroethene, Total	1.0	U	1.0	0.32
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.16
79-01-6	Trichloroethene	1.0	U	1.0	0.14
127-18-4	Tetrachloroethene	1.0	U	1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4	92		80-115
2037-26-5	Toluene-d8	97		80-115
460-00-4	Bromofluorobenzene	96		85-120
2199-69-1	1,2-Dichlorobenzene-d4	92		80-115

US EPA ARCHIVE DOCUMENT

FORM I  
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12393-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44296/3  
 Matrix: Water Lab File ID: lhre03.d  
 Analysis Method: 8260B Date Collected: \_\_\_\_\_  
 Sample wt/vol: 5(mL) Date Analyzed: 08/29/2012 21:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: DB-624 ID: 0.53(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44296 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-01-4	Vinyl chloride	29.8		1.0	0.090
75-35-4	1,1-Dichloroethene	26.8		1.0	0.18
156-60-5	trans-1,2-Dichloroethene	25.5		1.0	0.17
540-59-0	1,2-Dichloroethene, Total	50.5		1.0	0.32
156-59-2	cis-1,2-Dichloroethene	25.0		1.0	0.16
79-01-6	Trichloroethene	24.5		1.0	0.14
127-18-4	Tetrachloroethene	26.1		1.0	0.18

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4	91		80-115
2037-26-5	Toluene-d8	97		80-115
460-00-4	Bromofluorobenzene	95		85-120
2199-69-1	1,2-Dichlorobenzene-d4	89		80-115

US EPA ARCHIVE DOCUMENT

VOLATILE GC/MS INSTRUMENT RUN LOG

Sequence	Instrument Information	STD Traceability (Record Container ID)	Performance Checks
Batch ID: LHR 826W	Instrument: HP5971	Tune STD: 375578	<input type="checkbox"/> Tune Standard 94K
Test Method: 8260 Water	Instrument ID: L	ISTD: 375397	<input type="checkbox"/> RF Summary
Start Date: 8/27/12 Time: 1057	Column Type: Capillary DB-624	Surrogate: 375398	<input type="checkbox"/> ISTD Response
End Date: 8/27/12 Time: 2257	Purge Volume: <input checked="" type="checkbox"/> 5mL <input type="checkbox"/> 10mL <input type="checkbox"/> 25mL	ICAL/CCV: 383812, 379019, 383814	<input type="checkbox"/> RT & Ratios Updated
ICAL Date: 8/27/12	TALS Batch: 44069 TALS CAL Batch: 44069	ICV/LCS/MS/MSD: 383813, 379020, 383815, 375394	

Required for CLP contract work only.

Sequence Information								Individual Sample Review				Comments
Inj. Time	File Name	TALS ID	Client ID <sup>1</sup>	DF	Vol	pH	Operator	SS	ISTD	Conc	PA	
1057	LHR01	BFB					MTP	—	—	✓	MTP	
1110	02	VEBIK						✓	✓	✓		
1142	03	IC						✓	✓	✓		
1214	04	IC						✓	✓	✓		
1247	05	IC						✓	✓	✓		
1319	06	ICFS						✓	✓	✓		
1351	07	IC						✓	✓	✓		
1423	08	IC						✓	✓	✓		B-meth/ME/2-CEV/AL-OB-CP 15%
1456	09	VEBIK						✓	✓	CO		
1520	10	VEBIK						✓	✓	—		
1600	11	TEV						✓	✓	—		BMT, acrolein ↓
	12											

AWK  
8/23/12

PA=Primary Analyst • ISTD=Internal Standard • Conc=Value within Cal Range • SS=Surrogate • C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable • — = NA

### VOLATILE GC/MS INSTRUMENT RUN LOG

Sequence	Instrument Information	STD Traceability (Record Container ID)	Performance Checks
Batch ID: LHR2 826W	Instrument: HP5971	Tune STD: 345578	<input type="checkbox"/> Tune Standard 7/11/12
Test Method: 82601/inter	Instrument ID: L	ISTD: 375397	<input type="checkbox"/> RF Summary
Start Date: 8/25/12 Time: 20:37	Column Type: Capillary DB-624	Surrogate: 375398 375399	<input type="checkbox"/> ISTD Response
End Date: 8/30/12 Time: 08:37	Purge Volume: 5mL <input type="checkbox"/> 10mL <input type="checkbox"/> 25mL	ICAL/CCV: 383812, 379019, 383814	<input type="checkbox"/> RT & Ratios Updated
ICAL Date: 8/27/12	TALS Batch: 44296 TALS CAL Batch: 44069	ICV/LCS/MS/MSD: 383813, 379020, 383815, 375397	

*Required for CLP contract work only.*

Sequence Information								Individual Sample Review				Comments
Inj. Time	File Name	TALS ID	Client ID <sup>1</sup>	DF	Vol	pH	Operator	SS	ISTD	Conc	PA	
2037	LHR2 01	BFB					AHK	✓	✓	✓	AHK	
2100	02	CCVIS						✓	✓	✓		CM, BM, MI ↑
2132	03	LCS						✓	✓	✓		Bm ↑
2204	04	VIOL						✓	✓	✓		
2236	05	MB						✓	✓	✓		
2309	06	MB 200-438407-1		880L				✓	✓	✓		MI ↑ NCM MI ↑
2341	07	200-12373-13-1		880D	5ml	8		✓	✓	✓	JTB	NCM for Alu-1X
0013	08	L -B-2		100%		2		✓	✓	✓		
0045	09	200-12373-B-1						✓	✓	✓		
0118	10	-B-2						✓	✓	✓		
0150	11	-B-3						✓	✓	✓		
0223	12	-B-4						✓	✓	✓		
0255	13	-B-5						✓	✓	✓		
0327	14	-B-6						✓	✓	✓		
0400	15	200-12373-B-1		244	1.8ml			✓	✓	✓		
0432	16	-B-2		100%				✓	✓	✓		
0504	17	-B-3						✓	✓	✓		
0537	18	200-12373-D-1		880L				✓	✓	✓		meat
0609	19	200-12373-D-1						✓	✓	✓		
0641	20	-D-1						✓	✓	✓		
0714	21	D-BMS						✓	✓	✓		
0716	22	D-ICMSD						✓	✓	✓		

MTP 8/30/12

PA=Primary Analyst • ISTD=Internal Standard • Conc=Value within Cal Range • SS=Surrogate • C=Complete • R=Reanalyze • ↑ = High • ↓ = Low • ✓ = Reviewed and Acceptable • — = NA

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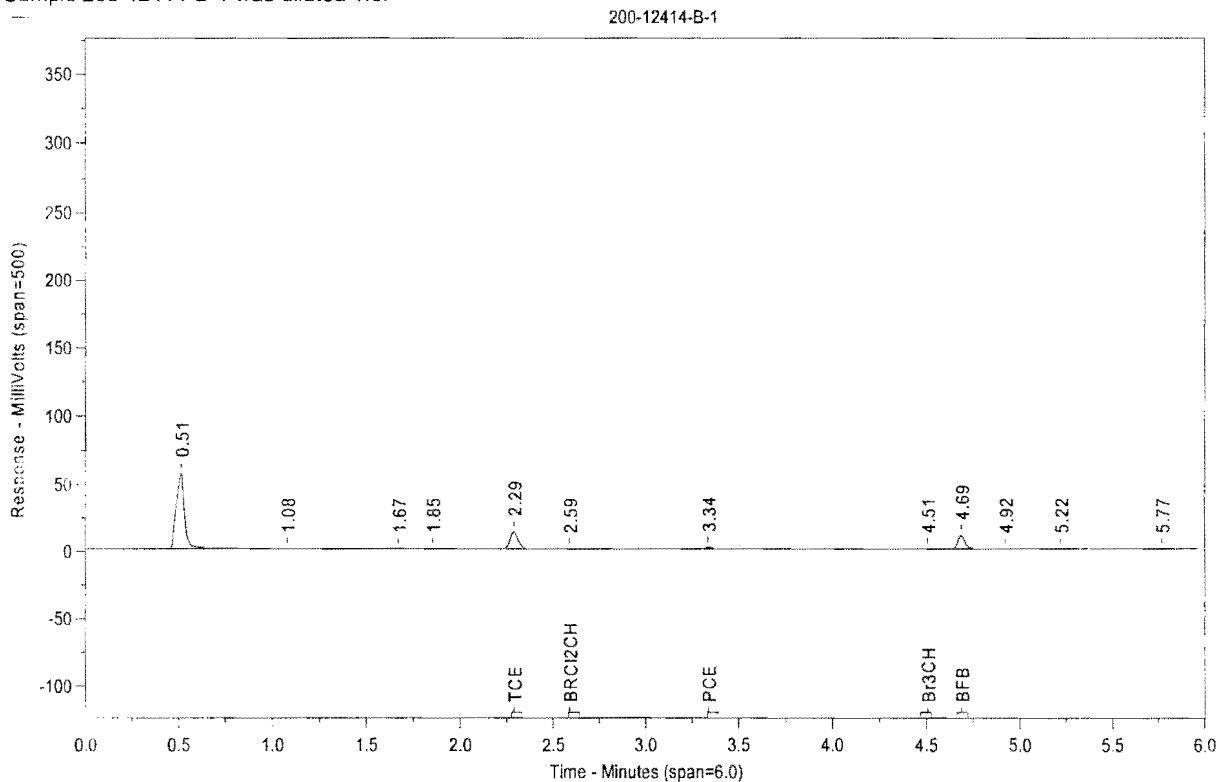
200-12383-A-1

Sample Name: 200-12414-B-1

Data File: C:\CPSpirit5\Data2\Voae082212.0181.RAW

Acquired from Instrument 1 on 8/28/12 9:48:05 PM by

Sample 200-12414-B-1 was diluted 1:5.



RT	Name	Amount	Height	RT	Name	Amount	Height
0.51		0	57877.30	3.34	PCE	2	1062.38
1.08		0	246.30	4.51	Br3CH	1	76.72
1.67		0	198.30	4.69	BFB	2281	10160.55
1.85		0	145.96	4.92		0	107.88
2.29	TCE	111	12776.43	5.22		0	76.65
2.59	BRC12CH	0	177.13	5.77		0	221.54

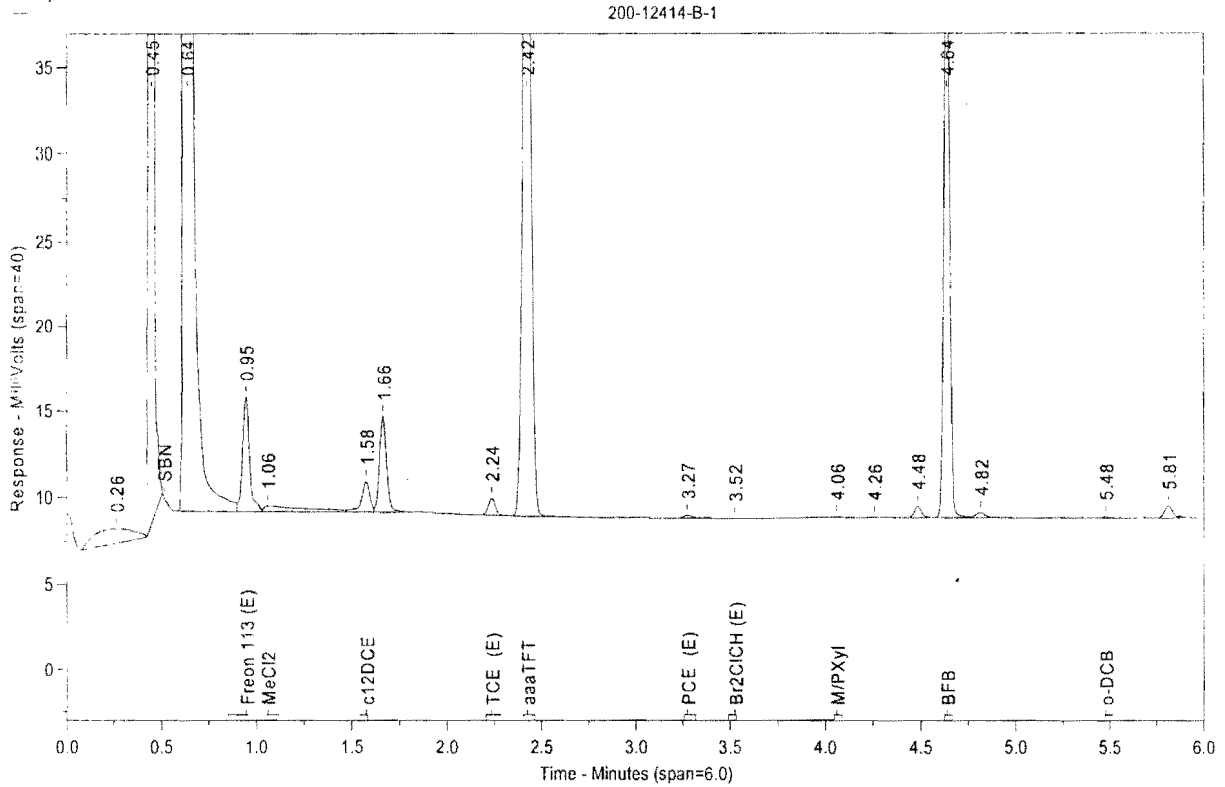
Surrogate BFB recovery is 114.0%

MENT

200-12393-A-1

Sample Name: 200-12414-B-1

Data File: C:\CPSpirit5\Data2\Voaf082212.0181.RAW  
 Acquired from Instrument 1 on 8/28/12 9:48:05 PM by  
 Sample 200-12414-B-1 was diluted 1:5.



RT	Name	Amount	Height	RT	Name	Amount	Height
0.26		0	826.01	3.27	PCE (E)	1	163.73
0.45		0	216501.84	3.52	Br2CICH (E)	36	30.49
0.64		0	974185.56	4.06	M/Pyxl	-4	45.17
0.95	Freon 113 (E)	1185	6748.66	4.26		0	46.43
1.06	MeCl2	11	320.31	4.48		0	636.00
1.58	c12DCE	144	1743.52	4.64	BFB	1912	37128.33
1.66		0	5547.62	4.82		0	307.95
2.24	TCE (E)	111	981.66	5.48	o-DCB	4	78.82
2.42	aaaTFT	1981	48898.93	5.81		0	688.19

Surrogate aaaTFT recovery is 99.1%  
 Surrogate BFB recovery is 95.6%

MENT



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12393-1

SDG No.: \_\_\_\_\_

Instrument ID: L.i Start Date: 08/27/2012 10:57

Analysis Batch Number: 44069 End Date: 08/27/2012 16:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44069/1		08/27/2012 10:57	1	lhr01.d	DB-624 0.53 (mm)
VIBLK 200-44069/2		08/27/2012 11:10	1		DB-624 0.53 (mm)
IC 200-44069/3		08/27/2012 11:42	1	lhr03.d	DB-624 0.53 (mm)
IC 200-44069/4		08/27/2012 12:14	1	lhr04.d	DB-624 0.53 (mm)
IC 200-44069/5		08/27/2012 12:47	1	lhr05.d	DB-624 0.53 (mm)
ICIS 200-44069/6		08/27/2012 13:19	1	lhr06.d	DB-624 0.53 (mm)
IC 200-44069/7		08/27/2012 13:51	1	lhr07.d	DB-624 0.53 (mm)
IC 200-44069/8		08/27/2012 14:23	1	lhr08.d	DB-624 0.53 (mm)
VIBLK 200-44069/9		08/27/2012 14:56	1		DB-624 0.53 (mm)
VIBLK 200-44069/10		08/27/2012 15:28	1		DB-624 0.53 (mm)
ICV 200-44069/11		08/27/2012 16:00	1	lhr11.d	DB-624 0.53 (mm)

## GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12393-1

SDG No.: \_\_\_\_\_

Instrument ID: L.i Start Date: 08/29/2012 20:37Analysis Batch Number: 44296 End Date: 08/30/2012 07:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44296/1		08/29/2012 20:37	1	lhre01.d	DB-624 0.53 (mm)
CCVIS 200-44296/2		08/29/2012 21:00	1	lhre02.d	DB-624 0.53 (mm)
LCS 200-44296/3		08/29/2012 21:32	1	lhre03.d	DB-624 0.53 (mm)
VIBLK 200-44296/4		08/29/2012 22:04	1		DB-624 0.53 (mm)
MB 200-44296/5		08/29/2012 22:36	1	lhre05.d	DB-624 0.53 (mm)
ZZZZZ		08/29/2012 23:09	1		DB-624 0.53 (mm)
200-12393-1	SUW-01	08/29/2012 23:41	8.8	lhre07.d	DB-624 0.53 (mm)
200-12393-2	TRIP BLANK	08/30/2012 00:13	1	lhre08.d	DB-624 0.53 (mm)
ZZZZZ		08/30/2012 00:45	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 01:18	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 01:50	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 02:23	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 02:55	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 03:27	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 04:00	24.4		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 04:32	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 05:04	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 05:37	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 06:09	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 06:41	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 07:14	1		DB-624 0.53 (mm)
ZZZZZ		08/30/2012 07:46	1		DB-624 0.53 (mm)

# Shipping and Receiving Documents



From: (314) 682-1500  
Jeanette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017

Origin ID: ZSVA



J12201207160325

Ship Date: 24AUG12  
Act/Wgt: 30.0 LB  
CAD: 5444229/NET3300

Delivery Address Bar Code



Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

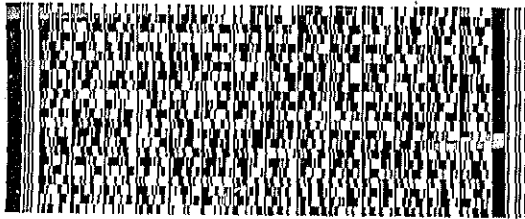
SHIP TO: (802) 660-1990  
SAMPLE RECEIVING  
TestAmerica  
30 COMMUNITY DR

BILL SENDER

SOUTH BURLINGTON, VT 05403

MON - 27 AUG A4  
STANDARD OVERNIGHT

TRK# 7987 8221 3974  
0201



05403

FedEx  
TRK# 7987 8221 3974  
0201

FRI - 24 AUG A4  
STANDARD OVERNIGHT

**XH BTVA**

05403

VT-US BTV



RT 716 1 A  
FZ 3974 08.24

## Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 200-12393-1

SDG Number:

**Login Number: 12393**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Marion, Greg T**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO SEAL NUMBERS
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.4°C IR GUN ID 176/CF=-0.8
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 sample IDs on the containers and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time.	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.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

Job Number: 200-12398-1

SDG Number:

Job Description: PKI/26682-3.20.20 - Air

For:

Burns & McDonnell  
425 South Woods Mill Road  
Suite 300

Chesterfield, MO 63017

Attention: Cheryl Mathenia



Approved for release.  
Don C Dawicki  
Customer Service Manager  
9/4/2012 5:01 PM

---

Don C Dawicki  
Customer Service Manager  
don.dawicki@testamericainc.com  
09/04/2012

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.**

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

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



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## CASE NARRATIVE

**Client: Burns & McDonnell**

**Project: PKI/26682-3.20.20 - Air**

**Report Number: 200-12398-1**

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

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

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

### RECEIPT

The samples were received on 08/24/2012; the samples arrived in good condition.

### VOLATILE ORGANIC COMPOUNDS

Samples SSV-01, SSV-02, SSV-02/FD, SSV-04, SSV-05, SSV-06, SSV-06/FD, SSV-07, SSV-08, SSV-09, SSV-10 and SSV-11 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/28/2012, 08/29/2012 and 08/30/2012.

The original volatile organics analyses for certain of the samples in this delivery group yielded concentrations of target analytes that exceeded the range of calibrated instrument response. These samples were diluted analyzed yielding acceptable response. The results from both analyses for each sample have been formally presented.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

### LOW LEVEL VOLATILE ORGANIC COMPOUNDS

Samples IA-11/FD, IA-06, IA-13, IA-04 and IA-11 were analyzed for Low Level Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/29/2012 and 08/30/2012.

The original analysis attempt for the samples referenced above yielded internal standard responses outside the established criteria due to high humidity in the samples resulting in interference with the instrumentaton. Each sample was re-analyzed as concentrated as possible with the goal of achieving the requested screening levels without interference to the instrumentation.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Analysis Batch Number: 43490

Lab Sample ID: IC 200-43490/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 18:13 Lab File ID: ckz003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.13	Poor chromatography	ahk	08/14/12 22:55
Carbon tetrachloride	12.78	Poor chromatography		

Lab Sample ID: IC 200-43490/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 19:07 Lab File ID: ckz004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	8.95	Poor chromatography		
Methyl tert-butyl ether	9.66	Poor chromatography		
n-Butanol	14.24	Analyte misidentified by the data system	ahk	08/14/12 23:01
trans-1,3-Dichloropropene	17.23	Poor chromatography		
n-Nonane	19.79	Peak not found by the data system	ahk	08/14/12 23:02
n-Dodecane	25.46	Peak not found by the data system	ahk	08/14/12 23:02

Lab Sample ID: IC 200-43490/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 20:00 Lab File ID: ckz005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	14.24	Peak not found by the data system	ahk	08/14/12 23:04

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Analysis Batch Number: 44312

Lab Sample ID: CCVIS 200-44312/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/30/12 09:21 Lab File ID: ckz1002.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.87	Baseline event	wrd	08/31/12 08:22
Acetonitrile	8.91	Baseline event	wrd	08/31/12 08:23

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 43550

Lab Sample ID: IC 200-43550/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/12 20:58 Lab File ID: ggr003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.73	Peak not found by the data system	pd	08/16/12 07:39

Lab Sample ID: IC 200-43550/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/12 21:51 Lab File ID: ggr004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopentane	6.03	Poor chromatography	ahk	08/16/12 15:58

Lab Sample ID: IC 200-43550/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/12 23:36 Lab File ID: ggr006.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:08

Lab Sample ID: ICIS 200-43550/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 00:28 Lab File ID: ggr007.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:08

Lab Sample ID: IC 200-43550/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 01:21 Lab File ID: ggr008.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:09

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 43550

Lab Sample ID: IC 200-43550/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 02:14 Lab File ID: ggr009.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.53	Baseline event	wrd	08/16/12 10:03
Acetonitrile	8.56	Baseline event	pd	08/16/12 07:40
1,4-Dioxane	14.65	Baseline event	wrd	08/16/12 10:09

Lab Sample ID: IC 200-43550/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 03:07 Lab File ID: ggr010.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:10

Lab Sample ID: ICV 200-43550/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 04:52 Lab File ID: ggr012.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.53	Baseline event	wrd	08/16/12 10:05
Acetonitrile	8.56	Baseline event	pd	08/16/12 07:43
1,4-Dioxane	14.66	Poor chromatography	wrd	08/16/12 10:07

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 44056

Lab Sample ID: CCVIS 200-44056/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/27/12 16:33 Lab File ID: ggri002.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.52	Poor chromatography	ahk	08/27/12 17:32
Acetonitrile	8.54	Poor chromatography	ahk	08/27/12 17:33

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 44193

Lab Sample ID: CCVIS 200-44193/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/28/12 18:05 Lab File ID: ggrj002.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.52	Poor chromatography	ahk	08/28/12 19:04
Acetonitrile	8.55	Poor chromatography	ahk	08/28/12 19:05
1,4-Dioxane	14.64	Poor chromatography	ahk	08/28/12 19:05



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Analysis Batch Number: 38293

Lab Sample ID: IC 200-38293/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/07/12 15:17 Lab File ID: eev003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	7.96	Baseline event	wrd	05/08/12 08:43
1,1,2-Trichloroethane	14.20	Peak not found by the data system	wrd	05/08/12 08:25
Bromoform	16.62	Peak not found by the data system	wrd	05/08/12 08:26

Lab Sample ID: IC 200-38293/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/07/12 16:11 Lab File ID: eev004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	7.12	Baseline event	wrd	05/08/12 08:31
Methyl tert-butyl ether	7.93	Baseline event	wrd	05/08/12 08:31
1,2-Dichloroethane	10.96	Peak not found by the data system	wrd	05/08/12 08:26

## SAMPLE SUMMARY

Client: Burns & McDonnell

Job Number: 200-12398-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-12398-1	SSV-01	Air	08/21/2012 1355	08/24/2012 0945
200-12398-2	SSV-02	Air	08/21/2012 1321	08/24/2012 0945
200-12398-3	SSV-02/FD	Air	08/21/2012 1321	08/24/2012 0945
200-12398-4	SSV-04	Air	08/21/2012 1030	08/24/2012 0945
200-12398-5	SSV-05	Air	08/21/2012 1103	08/24/2012 0945
200-12398-6	SSV-06	Air	08/21/2012 1151	08/24/2012 0945
200-12398-7	SSV-06/FD	Air	08/21/2012 1151	08/24/2012 0945
200-12398-8	SSV-07	Air	08/21/2012 1221	08/24/2012 0945
200-12398-9	SSV-08	Air	08/21/2012 0905	08/24/2012 0945
200-12398-10	SSV-09	Air	08/21/2012 0936	08/24/2012 0945
200-12398-11	SSV-10	Air	08/22/2012 1541	08/24/2012 0945
200-12398-12	SSV-11	Air	08/22/2012 1433	08/24/2012 0945
200-12398-13	IA-11/FD	Air	08/22/2012 1002	08/24/2012 0945
200-12398-14	IA-06	Air	08/22/2012 0833	08/24/2012 0945
200-12398-15	IA-13	Air	08/22/2012 0834	08/24/2012 0945
200-12398-16	IA-04	Air	08/22/2012 1001	08/24/2012 0945
200-12398-17	IA-11	Air	08/22/2012 1002	08/24/2012 0945

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12398-1</b>	<b>SSV-01</b>					
Trichloroethene		1.1		0.40	ppb v/v	TO-15
Trichloroethene		6.1		2.1	ug/m3	TO-15
<b>200-12398-2</b>	<b>SSV-02</b>					
Trichloroethene		1.3		0.40	ppb v/v	TO-15
Trichloroethene		7.2		2.1	ug/m3	TO-15
Tetrachloroethene		0.49		0.40	ppb v/v	TO-15
Tetrachloroethene		3.3		2.7	ug/m3	TO-15
<b>200-12398-3</b>	<b>SSV-02/FD</b>					
Trichloroethene		1.3		0.40	ppb v/v	TO-15
Trichloroethene		7.3		2.1	ug/m3	TO-15
Tetrachloroethene		0.43		0.40	ppb v/v	TO-15
Tetrachloroethene		2.9		2.7	ug/m3	TO-15
<b>200-12398-4</b>	<b>SSV-04</b>					
Trichloroethene		65		2.0	ppb v/v	TO-15
Trichloroethene		350		11	ug/m3	TO-15
Tetrachloroethene		1400	D	9.8	ppb v/v	TO-15
Tetrachloroethene		9700	D	66	ug/m3	TO-15
<b>200-12398-5</b>	<b>SSV-05</b>					
Trichloroethene		100		5.6	ppb v/v	TO-15
Trichloroethene		550		30	ug/m3	TO-15
Tetrachloroethene		3300	D	28	ppb v/v	TO-15
Tetrachloroethene		22000	D	190	ug/m3	TO-15
<b>200-12398-6</b>	<b>SSV-06</b>					
Trichloroethene		1.1		0.40	ppb v/v	TO-15
Trichloroethene		6.0		2.1	ug/m3	TO-15
Tetrachloroethene		170	D	1.6	ppb v/v	TO-15
Tetrachloroethene		1200	D	11	ug/m3	TO-15
<b>200-12398-7</b>	<b>SSV-06/FD</b>					
Trichloroethene		1.3		0.40	ppb v/v	TO-15
Trichloroethene		6.9		2.1	ug/m3	TO-15
Tetrachloroethene		210	D	2.0	ppb v/v	TO-15
Tetrachloroethene		1400	D	14	ug/m3	TO-15

US EPA ARCHIVE DOCUMENT

## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12398-8</b>	<b>SSV-07</b>					
Tetrachloroethene		40		0.40	ppb v/v	TO-15
Tetrachloroethene		270		2.7	ug/m3	TO-15
<b>200-12398-9</b>	<b>SSV-08</b>					
trans-1,2-Dichloroethene		17		9.6	ppb v/v	TO-15
trans-1,2-Dichloroethene		67		38	ug/m3	TO-15
cis-1,2-Dichloroethene		1900		9.6	ppb v/v	TO-15
cis-1,2-Dichloroethene		7400		38	ug/m3	TO-15
1,2-Dichloroethene, Total		1900		9.6	ppb v/v	TO-15
1,2-Dichloroethene, Total		7500		38	ug/m3	TO-15
Trichloroethene		8300	D	61	ppb v/v	TO-15
Trichloroethene		44000	D	330	ug/m3	TO-15
Tetrachloroethene		310		9.6	ppb v/v	TO-15
Tetrachloroethene		2100		65	ug/m3	TO-15
<b>200-12398-10</b>	<b>SSV-09</b>					
cis-1,2-Dichloroethene		79		0.95	ppb v/v	TO-15
cis-1,2-Dichloroethene		310		3.8	ug/m3	TO-15
1,2-Dichloroethene, Total		79		0.95	ppb v/v	TO-15
1,2-Dichloroethene, Total		310		3.8	ug/m3	TO-15
Trichloroethene		470	D	4.6	ppb v/v	TO-15
Trichloroethene		2500	D	25	ug/m3	TO-15
Tetrachloroethene		43		0.95	ppb v/v	TO-15
Tetrachloroethene		290		6.4	ug/m3	TO-15
<b>200-12398-11</b>	<b>SSV-10</b>					
trans-1,2-Dichloroethene		190		52	ppb v/v	TO-15
trans-1,2-Dichloroethene		740		210	ug/m3	TO-15
cis-1,2-Dichloroethene		3700		52	ppb v/v	TO-15
cis-1,2-Dichloroethene		15000		210	ug/m3	TO-15
1,2-Dichloroethene, Total		3900		52	ppb v/v	TO-15
1,2-Dichloroethene, Total		15000		210	ug/m3	TO-15
Trichloroethene		36000	D	270	ppb v/v	TO-15
Trichloroethene		200000	D	1400	ug/m3	TO-15

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12398-12</b>	<b>SSV-11</b>					
trans-1,2-Dichloroethene		33		0.94	ppb v/v	TO-15
trans-1,2-Dichloroethene		130		3.7	ug/m3	TO-15
cis-1,2-Dichloroethene		130		0.94	ppb v/v	TO-15
cis-1,2-Dichloroethene		530		3.7	ug/m3	TO-15
1,2-Dichloroethene, Total		170		0.94	ppb v/v	TO-15
1,2-Dichloroethene, Total		660		3.7	ug/m3	TO-15
Trichloroethene		310	D	3.8	ppb v/v	TO-15
Trichloroethene		1700	D	21	ug/m3	TO-15
Tetrachloroethene		1.4		0.94	ppb v/v	TO-15
Tetrachloroethene		9.4		6.3	ug/m3	TO-15
<b>200-12398-13</b>	<b>IA-11/FD</b>					
cis-1,2-Dichloroethene		0.12		0.052	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		0.46		0.20	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.12		0.052	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		0.46		0.20	ug/m3	TO15 LL
Trichloroethene		0.26		0.052	ppb v/v	TO15 LL
Trichloroethene		1.4		0.28	ug/m3	TO15 LL
Tetrachloroethene		2.4		0.052	ppb v/v	TO15 LL
Tetrachloroethene		16		0.35	ug/m3	TO15 LL
<b>200-12398-14</b>	<b>IA-06</b>					
cis-1,2-Dichloroethene		0.49		0.020	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		2.0		0.079	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.49		0.020	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		2.0		0.079	ug/m3	TO15 LL
Trichloroethene		1.0		0.020	ppb v/v	TO15 LL
Trichloroethene		5.5		0.11	ug/m3	TO15 LL
Tetrachloroethene		0.35		0.020	ppb v/v	TO15 LL
Tetrachloroethene		2.4		0.14	ug/m3	TO15 LL
<b>200-12398-15</b>	<b>IA-13</b>					
cis-1,2-Dichloroethene		0.13		0.010	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		0.52		0.040	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.13		0.010	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		0.52		0.040	ug/m3	TO15 LL
Trichloroethene		0.14		0.010	ppb v/v	TO15 LL
Trichloroethene		0.77		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.13		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.86		0.068	ug/m3	TO15 LL

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12398-16</b>	<b>IA-04</b>					
cis-1,2-Dichloroethene		0.21		0.10	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		0.83		0.40	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.21		0.10	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		0.83		0.40	ug/m3	TO15 LL
Trichloroethene		0.44		0.10	ppb v/v	TO15 LL
Trichloroethene		2.3		0.54	ug/m3	TO15 LL
Tetrachloroethene		5.0		0.10	ppb v/v	TO15 LL
Tetrachloroethene		34		0.68	ug/m3	TO15 LL
<b>200-12398-17</b>	<b>IA-11</b>					
cis-1,2-Dichloroethene		0.10		0.052	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		0.41		0.20	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.10		0.052	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		0.41		0.20	ug/m3	TO15 LL
Trichloroethene		0.22		0.052	ppb v/v	TO15 LL
Trichloroethene		1.2		0.28	ug/m3	TO15 LL
Tetrachloroethene		2.3		0.052	ppb v/v	TO15 LL
Tetrachloroethene		15		0.35	ug/m3	TO15 LL

US EPA ARCHIVE DOCUMENT

## METHOD SUMMARY

Client: Burns & McDonnell

Job Number: 200-12398-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Air</b>			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister
Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	TAL BUR	EPA TO15 LL	
Collection via Summa Canister	TAL BUR		Summa Canister

### Lab References:

TAL BUR = TestAmerica Burlington

### Method References:

EPA = US Environmental Protection Agency

US EPA ARCHIVE DOCUMENT

**METHOD / ANALYST SUMMARY**

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA TO-15	Desjardins, William R	WRD
EPA TO-15	Keene, Angela H	AHK
EPA TO-15	Perkins, Karen L	KLP
EPA TO15 LL	Desjardins, William R	WRD

**US EPA ARCHIVE DOCUMENT**



Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-01

Lab Sample ID: 200-12398-1

Date Sampled: 08/21/2012 1355

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj005.d
Dilution:	2.0			Initial Weight/Volume:	170 mL
Analysis Date:	08/28/2012 2044			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 2044			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	1.1		0.40	0.40
Tetrachloroethene	0.40	U	0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	6.1		2.1	2.1
Tetrachloroethene	2.7	U	2.7	2.7

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-02

Lab Sample ID: 200-12398-2

Date Sampled: 08/21/2012 1321

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri012.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/28/2012 0122			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0122			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	1.3		0.40	0.40
Tetrachloroethene	0.49		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	7.2		2.1	2.1
Tetrachloroethene	3.3		2.7	2.7

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-02/FD

Lab Sample ID: 200-12398-3

Date Sampled: 08/21/2012 1321

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri013.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/28/2012 0215			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0215			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	1.3		0.40	0.40
Tetrachloroethene	0.43		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	7.3		2.1	2.1
Tetrachloroethene	2.9		2.7	2.7

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-04

Lab Sample ID: 200-12398-4

Date Sampled: 08/21/2012 1030

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj006.d
Dilution:	10.1			Initial Weight/Volume:	97 mL
Analysis Date:	08/28/2012 2137			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 2137			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	2.0	U	2.0	2.0
1,1-Dichloroethene	2.0	U	2.0	2.0
trans-1,2-Dichloroethene	2.0	U	2.0	2.0
cis-1,2-Dichloroethene	2.0	U	2.0	2.0
1,2-Dichloroethene, Total	2.0	U	2.0	2.0
Trichloroethene	65		2.0	2.0
Tetrachloroethene	1600	E	2.0	2.0

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	5.2	U	5.2	5.2
1,1-Dichloroethene	8.0	U	8.0	8.0
trans-1,2-Dichloroethene	8.0	U	8.0	8.0
cis-1,2-Dichloroethene	8.0	U	8.0	8.0
1,2-Dichloroethene, Total	8.0	U	8.0	8.0
Trichloroethene	350		11	11
Tetrachloroethene	11000	E	14	14

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Client Sample ID: SSV-04

Lab Sample ID: 200-12398-4  
Client Matrix: Air

Date Sampled: 08/21/2012 1030  
Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj007.d
Dilution:	48.8			Initial Weight/Volume:	20 mL
Analysis Date:	08/28/2012 2230	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 2230			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	9.8	U	9.8	9.8
1,1-Dichloroethene	9.8	U	9.8	9.8
trans-1,2-Dichloroethene	9.8	U	9.8	9.8
cis-1,2-Dichloroethene	9.8	U	9.8	9.8
1,2-Dichloroethene, Total	9.8	U	9.8	9.8
Trichloroethene	63	D	9.8	9.8
Tetrachloroethene	1400	D	9.8	9.8

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	25	U	25	25
1,1-Dichloroethene	39	U	39	39
trans-1,2-Dichloroethene	39	U	39	39
cis-1,2-Dichloroethene	39	U	39	39
1,2-Dichloroethene, Total	39	U	39	39
Trichloroethene	340	D	52	52
Tetrachloroethene	9700	D	66	66

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-05

Lab Sample ID: 200-12398-5

Date Sampled: 08/21/2012 1103

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj008.d
Dilution:	28			Initial Weight/Volume:	114 mL
Analysis Date:	08/28/2012 2322			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 2322			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	5.6	U	5.6	5.6
1,1-Dichloroethene	5.6	U	5.6	5.6
trans-1,2-Dichloroethene	5.6	U	5.6	5.6
cis-1,2-Dichloroethene	5.6	U	5.6	5.6
1,2-Dichloroethene, Total	5.6	U	5.6	5.6
Trichloroethene	100		5.6	5.6
Tetrachloroethene	3600	E	5.6	5.6

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	14	U	14	14
1,1-Dichloroethene	22	U	22	22
trans-1,2-Dichloroethene	22	U	22	22
cis-1,2-Dichloroethene	22	U	22	22
1,2-Dichloroethene, Total	22	U	22	22
Trichloroethene	550		30	30
Tetrachloroethene	25000	E	38	38

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Client Sample ID: SSV-05

Lab Sample ID: 200-12398-5  
Client Matrix: Air

Date Sampled: 08/21/2012 1103  
Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj009.d
Dilution:	139			Initial Weight/Volume:	23 mL
Analysis Date:	08/29/2012 0015	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0015			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	28	U	28	28
1,1-Dichloroethene	28	U	28	28
trans-1,2-Dichloroethene	28	U	28	28
cis-1,2-Dichloroethene	28	U	28	28
1,2-Dichloroethene, Total	28	U	28	28
Trichloroethene	97	D	28	28
Tetrachloroethene	3300	D	28	28

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	71	U	71	71
1,1-Dichloroethene	110	U	110	110
trans-1,2-Dichloroethene	110	U	110	110
cis-1,2-Dichloroethene	110	U	110	110
1,2-Dichloroethene, Total	110	U	110	110
Trichloroethene	520	D	150	150
Tetrachloroethene	22000	D	190	190

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-06

Lab Sample ID: 200-12398-6

Date Sampled: 08/21/2012 1151

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri014.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/28/2012 0308			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0308			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	1.1		0.40	0.40
Tetrachloroethene	210	E	0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	6.0		2.1	2.1
Tetrachloroethene	1400	E	2.7	2.7

US EPA ARCHIVE DOCUMENT



Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-06

Lab Sample ID: 200-12398-6

Date Sampled: 08/21/2012 1151

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri015.d
Dilution:	8.0			Initial Weight/Volume:	25 mL
Analysis Date:	08/28/2012 0401	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0401			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	1.6	U	1.6	1.6
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	1.6	U	1.6	1.6
Tetrachloroethene	170	D	1.6	1.6

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	4.1	U	4.1	4.1
1,1-Dichloroethene	6.3	U	6.3	6.3
trans-1,2-Dichloroethene	6.3	U	6.3	6.3
cis-1,2-Dichloroethene	6.3	U	6.3	6.3
1,2-Dichloroethene, Total	6.3	U	6.3	6.3
Trichloroethene	8.6	U	8.6	8.6
Tetrachloroethene	1200	D	11	11

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-06/FD

Lab Sample ID: 200-12398-7

Date Sampled: 08/21/2012 1151

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri016.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/28/2012 0454			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0454			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	1.3		0.40	0.40
Tetrachloroethene	270	E	0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	6.9		2.1	2.1
Tetrachloroethene	1800	E	2.7	2.7

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-06/FD

Lab Sample ID: 200-12398-7

Date Sampled: 08/21/2012 1151

Client Matrix: Air

Date Received: 08/24/2012 0945

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

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri017.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	08/28/2012 0547	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0547			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	2.0	U	2.0	2.0
1,1-Dichloroethene	2.0	U	2.0	2.0
trans-1,2-Dichloroethene	2.0	U	2.0	2.0
cis-1,2-Dichloroethene	2.0	U	2.0	2.0
1,2-Dichloroethene, Total	2.0	U	2.0	2.0
Trichloroethene	2.0	U	2.0	2.0
Tetrachloroethene	210	D	2.0	2.0

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	5.1	U	5.1	5.1
1,1-Dichloroethene	7.9	U	7.9	7.9
trans-1,2-Dichloroethene	7.9	U	7.9	7.9
cis-1,2-Dichloroethene	7.9	U	7.9	7.9
1,2-Dichloroethene, Total	7.9	U	7.9	7.9
Trichloroethene	11	U	11	11
Tetrachloroethene	1400	D	14	14

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-07

Lab Sample ID: 200-12398-8

Date Sampled: 08/21/2012 1221

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44056	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggri018.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/28/2012 0639			Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 0639			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	0.40	U	0.40	0.40
Tetrachloroethene	40		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	2.1	U	2.1	2.1
Tetrachloroethene	270		2.7	2.7

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-08

Lab Sample ID: 200-12398-9

Date Sampled: 08/21/2012 0905

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj010.d
Dilution:	47.9			Initial Weight/Volume:	177 mL
Analysis Date:	08/29/2012 0108			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0108			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	9.6	U	9.6	9.6
1,1-Dichloroethene	9.6	U	9.6	9.6
trans-1,2-Dichloroethene	17		9.6	9.6
cis-1,2-Dichloroethene	1900		9.6	9.6
1,2-Dichloroethene, Total	1900		9.6	9.6
Trichloroethene	8900	E	9.6	9.6
Tetrachloroethene	310		9.6	9.6

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	24	U	24	24
1,1-Dichloroethene	38	U	38	38
trans-1,2-Dichloroethene	67		38	38
cis-1,2-Dichloroethene	7400		38	38
1,2-Dichloroethene, Total	7500		38	38
Trichloroethene	48000	E	51	51
Tetrachloroethene	2100		65	65

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Client Sample ID: SSV-08

Lab Sample ID: 200-12398-9  
Client Matrix: Air

Date Sampled: 08/21/2012 0905  
Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl008.d
Dilution:	303			Initial Weight/Volume:	28 mL
Analysis Date:	08/30/2012 1441	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1441			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	61	U	61	61
1,1-Dichloroethene	61	U	61	61
trans-1,2-Dichloroethene	61	U	61	61
cis-1,2-Dichloroethene	1600	D	61	61
1,2-Dichloroethene, Total	1600	D	61	61
Trichloroethene	8300	D	61	61
Tetrachloroethene	260	D	61	61

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	150	U	150	150
1,1-Dichloroethene	240	U	240	240
trans-1,2-Dichloroethene	240	U	240	240
cis-1,2-Dichloroethene	6500	D	240	240
1,2-Dichloroethene, Total	6500	D	240	240
Trichloroethene	44000	D	330	330
Tetrachloroethene	1800	D	410	410

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**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Client Sample ID: SSV-09**

Lab Sample ID: 200-12398-10  
Client Matrix: Air

Date Sampled: 08/21/2012 0936  
Date Received: 08/24/2012 0945

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

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj012.d
Dilution:	4.74			Initial Weight/Volume:	200 mL
Analysis Date:	08/29/2012 0254			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0254			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.95	U	0.95	0.95
1,1-Dichloroethene	0.95	U	0.95	0.95
trans-1,2-Dichloroethene	0.95	U	0.95	0.95
cis-1,2-Dichloroethene	79		0.95	0.95
1,2-Dichloroethene, Total	79		0.95	0.95
Trichloroethene	560	E	0.95	0.95
Tetrachloroethene	43		0.95	0.95

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	2.4	U	2.4	2.4
1,1-Dichloroethene	3.8	U	3.8	3.8
trans-1,2-Dichloroethene	3.8	U	3.8	3.8
cis-1,2-Dichloroethene	310		3.8	3.8
1,2-Dichloroethene, Total	310		3.8	3.8
Trichloroethene	3000	E	5.1	5.1
Tetrachloroethene	290		6.4	6.4

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**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Client Sample ID: SSV-09**

Lab Sample ID: 200-12398-10  
Client Matrix: Air

Date Sampled: 08/21/2012 0936  
Date Received: 08/24/2012 0945

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

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj013.d
Dilution:	23.1			Initial Weight/Volume:	41 mL
Analysis Date:	08/29/2012 0347	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0347			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	4.6	U	4.6	4.6
1,1-Dichloroethene	4.6	U	4.6	4.6
trans-1,2-Dichloroethene	4.6	U	4.6	4.6
cis-1,2-Dichloroethene	75	D	4.6	4.6
1,2-Dichloroethene, Total	75	D	4.6	4.6
Trichloroethene	470	D	4.6	4.6
Tetrachloroethene	37	D	4.6	4.6

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	12	U	12	12
1,1-Dichloroethene	18	U	18	18
trans-1,2-Dichloroethene	18	U	18	18
cis-1,2-Dichloroethene	300	D	18	18
1,2-Dichloroethene, Total	300	D	18	18
Trichloroethene	2500	D	25	25
Tetrachloroethene	250	D	31	31

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**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Client Sample ID: SSV-10**

Lab Sample ID: 200-12398-11  
Client Matrix: Air

Date Sampled: 08/22/2012 1541  
Date Received: 08/24/2012 0945

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

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj025.d
Dilution:	260			Initial Weight/Volume:	128 mL
Analysis Date:	08/29/2012 1421			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 1421			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	52	U	52	52
1,1-Dichloroethene	52	U	52	52
trans-1,2-Dichloroethene	190		52	52
cis-1,2-Dichloroethene	3700		52	52
1,2-Dichloroethene, Total	3900		52	52
Trichloroethene	34000	E	52	52
Tetrachloroethene	52	U	52	52

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	130	U	130	130
1,1-Dichloroethene	210	U	210	210
trans-1,2-Dichloroethene	740		210	210
cis-1,2-Dichloroethene	15000		210	210
1,2-Dichloroethene, Total	15000		210	210
Trichloroethene	180000	E	280	280
Tetrachloroethene	350	U	350	350

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**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Client Sample ID: SSV-10**

Lab Sample ID: 200-12398-11  
Client Matrix: Air

Date Sampled: 08/22/2012 1541  
Date Received: 08/24/2012 0945

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

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj026.d
Dilution:	1330			Initial Weight/Volume:	25 mL
Analysis Date:	08/29/2012 1514	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 1514			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	270	U	270	270
1,1-Dichloroethene	270	U	270	270
trans-1,2-Dichloroethene	270	U	270	270
cis-1,2-Dichloroethene	4000	D	270	270
1,2-Dichloroethene, Total	4200	D	270	270
Trichloroethene	36000	D	270	270
Tetrachloroethene	270	U	270	270

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	680	U	680	680
1,1-Dichloroethene	1100	U	1100	1100
trans-1,2-Dichloroethene	1100	U	1100	1100
cis-1,2-Dichloroethene	16000	D	1100	1100
1,2-Dichloroethene, Total	17000	D	1100	1100
Trichloroethene	200000	D	1400	1400
Tetrachloroethene	1800	U	1800	1800

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-11

Lab Sample ID: 200-12398-12

Date Sampled: 08/22/2012 1433

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj014.d
Dilution:	4.68			Initial Weight/Volume:	200 mL
Analysis Date:	08/29/2012 0439			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0439			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.94	U	0.94	0.94
1,1-Dichloroethene	0.94	U	0.94	0.94
trans-1,2-Dichloroethene	33		0.94	0.94
cis-1,2-Dichloroethene	130		0.94	0.94
1,2-Dichloroethene, Total	170		0.94	0.94
Trichloroethene	450	E	0.94	0.94
Tetrachloroethene	1.4		0.94	0.94

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	2.4	U	2.4	2.4
1,1-Dichloroethene	3.7	U	3.7	3.7
trans-1,2-Dichloroethene	130		3.7	3.7
cis-1,2-Dichloroethene	530		3.7	3.7
1,2-Dichloroethene, Total	660		3.7	3.7
Trichloroethene	2400	E	5.0	5.0
Tetrachloroethene	9.4		6.3	6.3

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: SSV-11

Lab Sample ID: 200-12398-12

Date Sampled: 08/22/2012 1433

Client Matrix: Air

Date Received: 08/24/2012 0945

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj015.d
Dilution:	19.1			Initial Weight/Volume:	49 mL
Analysis Date:	08/29/2012 0532	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 0532			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	3.8	U	3.8	3.8
1,1-Dichloroethene	3.8	U	3.8	3.8
trans-1,2-Dichloroethene	30	D	3.8	3.8
cis-1,2-Dichloroethene	110	D	3.8	3.8
1,2-Dichloroethene, Total	140	D	3.8	3.8
Trichloroethene	310	D	3.8	3.8
Tetrachloroethene	3.8	U	3.8	3.8

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	9.8	U	9.8	9.8
1,1-Dichloroethene	15	U	15	15
trans-1,2-Dichloroethene	120	D	15	15
cis-1,2-Dichloroethene	440	D	15	15
1,2-Dichloroethene, Total	560	D	15	15
Trichloroethene	1700	D	21	21
Tetrachloroethene	26	U	26	26

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Client Sample ID: IA-11/FD

Lab Sample ID: 200-12398-13  
Client Matrix: Air

Date Sampled: 08/22/2012 1002  
Date Received: 08/24/2012 0945

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz008.d
Dilution:	5.15			Initial Weight/Volume:	97 mL
Analysis Date:	08/29/2012 2053			Final Weight/Volume:	500 mL
Prep Date:	08/29/2012 2053			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.10	U	0.10	0.10
1,1-Dichloroethene	0.052	U	0.052	0.052
trans-1,2-Dichloroethene	0.052	U	0.052	0.052
cis-1,2-Dichloroethene	0.12		0.052	0.052
1,2-Dichloroethene, Total	0.12		0.052	0.052
Trichloroethene	0.26		0.052	0.052
Tetrachloroethene	2.4		0.052	0.052

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.26	U	0.26	0.26
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.46		0.20	0.20
1,2-Dichloroethene, Total	0.46		0.20	0.20
Trichloroethene	1.4		0.28	0.28
Tetrachloroethene	16		0.35	0.35

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: IA-06

Lab Sample ID: 200-12398-14

Date Sampled: 08/22/2012 0833

Client Matrix: Air

Date Received: 08/24/2012 0945

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz025.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	08/30/2012 1216			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 1216			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.040	U	0.040	0.040
1,1-Dichloroethene	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.49		0.020	0.020
1,2-Dichloroethene, Total	0.49		0.020	0.020
Trichloroethene	1.0		0.020	0.020
Tetrachloroethene	0.35		0.020	0.020

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.10	U	0.10	0.10
1,1-Dichloroethene	0.079	U	0.079	0.079
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
cis-1,2-Dichloroethene	2.0		0.079	0.079
1,2-Dichloroethene, Total	2.0		0.079	0.079
Trichloroethene	5.5		0.11	0.11
Tetrachloroethene	2.4		0.14	0.14

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: IA-13

Lab Sample ID: 200-12398-15

Date Sampled: 08/22/2012 0834

Client Matrix: Air

Date Received: 08/24/2012 0945

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz010.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/29/2012 2241			Final Weight/Volume:	500 mL
Prep Date:	08/29/2012 2241			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.13		0.010	0.010
1,2-Dichloroethene, Total	0.13		0.010	0.010
Trichloroethene	0.14		0.010	0.010
Tetrachloroethene	0.13		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.52		0.040	0.040
1,2-Dichloroethene, Total	0.52		0.040	0.040
Trichloroethene	0.77		0.054	0.054
Tetrachloroethene	0.86		0.068	0.068

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**Analytical Data**

Client: Burns &amp; McDonnell

Job Number: 200-12398-1

Sdg Number:

**Client Sample ID: IA-04**

Lab Sample ID: 200-12398-16

Date Sampled: 08/22/2012 1001

Client Matrix: Air

Date Received: 08/24/2012 0945

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz011.d
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	08/29/2012 2335			Final Weight/Volume:	500 mL
Prep Date:	08/29/2012 2335			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.10	U	0.10	0.10
trans-1,2-Dichloroethene	0.10	U	0.10	0.10
cis-1,2-Dichloroethene	0.21		0.10	0.10
1,2-Dichloroethene, Total	0.21		0.10	0.10
Trichloroethene	0.44		0.10	0.10
Tetrachloroethene	5.0		0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.83		0.40	0.40
1,2-Dichloroethene, Total	0.83		0.40	0.40
Trichloroethene	2.3		0.54	0.54
Tetrachloroethene	34		0.68	0.68

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

Client Sample ID: IA-11

Lab Sample ID: 200-12398-17

Date Sampled: 08/22/2012 1002

Client Matrix: Air

Date Received: 08/24/2012 0945

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz012.d
Dilution:	5.15			Initial Weight/Volume:	97 mL
Analysis Date:	08/30/2012 0029			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 0029			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.10	U	0.10	0.10
1,1-Dichloroethene	0.052	U	0.052	0.052
trans-1,2-Dichloroethene	0.052	U	0.052	0.052
cis-1,2-Dichloroethene	0.10		0.052	0.052
1,2-Dichloroethene, Total	0.10		0.052	0.052
Trichloroethene	0.22		0.052	0.052
Tetrachloroethene	2.3		0.052	0.052

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.26	U	0.26	0.26
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.41		0.20	0.20
1,2-Dichloroethene, Total	0.41		0.20	0.20
Trichloroethene	1.2		0.28	0.28
Tetrachloroethene	15		0.35	0.35

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**Quality Control Results**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Method Blank - Batch: 200-44056**

Lab Sample ID: MB 200-44056/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/27/2012 1819  
Prep Date: 08/27/2012 1819  
Leach Date: N/A

Analysis Batch: 200-44056  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

**Method: TO-15**

**Preparation: Summa Canister**

Instrument ID: G.i  
Lab File ID: ggri004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20

**Method Blank - Batch: 200-44056**

Lab Sample ID: MB 200-44056/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/27/2012 1819  
Prep Date: 08/27/2012 1819  
Leach Date: N/A

Analysis Batch: 200-44056  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

**Method: TO-15**

**Preparation: Summa Canister**

Instrument ID: G.i  
Lab File ID: ggri004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Trichloroethene	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Lab Control Sample - Batch: 200-44056

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID: LCS 200-44056/3  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/27/2012 1726  
Prep Date: 08/27/2012 1726  
Leach Date: N/A

Analysis Batch: 200-44056  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: G.i  
Lab File ID: ggri003.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	10.0	7.93	79	70 - 130	
1,1-Dichloroethene	10.0	9.63	96	70 - 130	
trans-1,2-Dichloroethene	10.0	8.80	88	70 - 130	
cis-1,2-Dichloroethene	10.0	9.28	93	70 - 130	
Trichloroethene	10.0	8.76	88	70 - 130	
Tetrachloroethene	10.0	9.51	95	70 - 130	

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Method Blank - Batch: 200-44193

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID: MB 200-44193/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/28/2012 1951  
Prep Date: 08/28/2012 1951  
Leach Date: N/A

Analysis Batch: 200-44193  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: G.i  
Lab File ID: ggrj004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20

Method Blank - Batch: 200-44193

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID: MB 200-44193/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/28/2012 1951  
Prep Date: 08/28/2012 1951  
Leach Date: N/A

Analysis Batch: 200-44193  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

Instrument ID: G.i  
Lab File ID: ggrj004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Trichloroethene	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Lab Control Sample - Batch: 200-44193

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID: LCS 200-44193/3  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/28/2012 1858  
Prep Date: 08/28/2012 1858  
Leach Date: N/A

Analysis Batch: 200-44193  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: G.i  
Lab File ID: ggrj003.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	10.0	7.43	74	70 - 130	
1,1-Dichloroethene	10.0	9.25	93	70 - 130	
trans-1,2-Dichloroethene	10.0	8.45	85	70 - 130	
cis-1,2-Dichloroethene	10.0	8.90	89	70 - 130	
Trichloroethene	10.0	8.48	85	70 - 130	
Tetrachloroethene	10.0	9.11	91	70 - 130	

US EPA ARCHIVE DOCUMENT

**Quality Control Results**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Method Blank - Batch: 200-44312**

**Method: TO-15  
Preparation: Summa Canister**

Lab Sample ID: MB 200-44312/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/30/2012 1108  
Prep Date: 08/30/2012 1108  
Leach Date: N/A

Analysis Batch: 200-44312  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: C.i  
Lab File ID: ckzl004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20

**Method Blank - Batch: 200-44312**

**Method: TO-15  
Preparation: Summa Canister**

Lab Sample ID: MB 200-44312/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/30/2012 1108  
Prep Date: 08/30/2012 1108  
Leach Date: N/A

Analysis Batch: 200-44312  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

Instrument ID: C.i  
Lab File ID: ckzl004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Trichloroethene	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

Lab Control Sample - Batch: 200-44312

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44312/3	Analysis Batch:	200-44312	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzl003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/30/2012 1015	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1015			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	10.0	9.46	95	70 - 130	
1,1-Dichloroethene	10.0	10.9	109	70 - 130	
trans-1,2-Dichloroethene	10.0	9.84	98	70 - 130	
cis-1,2-Dichloroethene	10.0	9.89	99	70 - 130	
Trichloroethene	10.0	9.73	97	70 - 130	
Tetrachloroethene	10.0	9.76	98	70 - 130	

US EPA ARCHIVE DOCUMENT

**Quality Control Results**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Method Blank - Batch: 200-44227**

Lab Sample ID: MB 200-44227/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/29/2012 1716  
Prep Date: 08/29/2012 1716  
Leach Date: N/A

Analysis Batch: 200-44227  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

**Method: TO15 LL  
Preparation: Summa Canister**

Instrument ID: E.i  
Lab File ID: eevz004.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.010	U	0.010	0.010
Tetrachloroethene	0.010	U	0.010	0.010

**Method Blank - Batch: 200-44227**

Lab Sample ID: MB 200-44227/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/29/2012 1716  
Prep Date: 08/29/2012 1716  
Leach Date: N/A

Analysis Batch: 200-44227  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

**Method: TO15 LL  
Preparation: Summa Canister**

Instrument ID: E.i  
Lab File ID: eevz004.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.054	U	0.054	0.054
Tetrachloroethene	0.068	U	0.068	0.068

US EPA ARCHIVE DOCUMENT



**Quality Control Results**

Client: Burns & McDonnell

Job Number: 200-12398-1  
Sdg Number:

**Lab Control Sample - Batch: 200-44227**

**Method: TO15 LL**  
**Preparation: Summa Canister**

Lab Sample ID:	LCS 200-44227/3	Analysis Batch:	200-44227	Instrument ID:	E.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	eevz003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	08/29/2012 1622	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	08/29/2012 1622			Injection Volume:	500 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.187	93	70 - 130	
1,1-Dichloroethene	0.200	0.210	105	70 - 130	
trans-1,2-Dichloroethene	0.200	0.185	93	70 - 130	
cis-1,2-Dichloroethene	0.200	0.183	91	70 - 130	
Trichloroethene	0.200	0.168	84	70 - 130	
Tetrachloroethene	0.200	0.146	73	70 - 130	

US EPA ARCHIVE DOCUMENT

## DATA REPORTING QUALIFIERS

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

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

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1

Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
<b>Air - GC/MS VOA</b>					
<b>Analysis Batch:200-44056</b>					
LCS 200-44056/3	Lab Control Sample	T	Air	TO-15	
MB 200-44056/4	Method Blank	T	Air	TO-15	
200-12398-2	SSV-02	T	Air	TO-15	
200-12398-3	SSV-02/FD	T	Air	TO-15	
200-12398-6	SSV-06	T	Air	TO-15	
200-12398-6DL	SSV-06	T	Air	TO-15	
200-12398-7	SSV-06/FD	T	Air	TO-15	
200-12398-7DL	SSV-06/FD	T	Air	TO-15	
200-12398-8	SSV-07	T	Air	TO-15	
<b>Analysis Batch:200-44193</b>					
LCS 200-44193/3	Lab Control Sample	T	Air	TO-15	
MB 200-44193/4	Method Blank	T	Air	TO-15	
200-12398-1	SSV-01	T	Air	TO-15	
200-12398-4	SSV-04	T	Air	TO-15	
200-12398-4DL	SSV-04	T	Air	TO-15	
200-12398-5	SSV-05	T	Air	TO-15	
200-12398-5DL	SSV-05	T	Air	TO-15	
200-12398-9	SSV-08	T	Air	TO-15	
200-12398-10	SSV-09	T	Air	TO-15	
200-12398-10DL	SSV-09	T	Air	TO-15	
200-12398-11	SSV-10	T	Air	TO-15	
200-12398-11DL	SSV-10	T	Air	TO-15	
200-12398-12	SSV-11	T	Air	TO-15	
200-12398-12DL	SSV-11	T	Air	TO-15	
<b>Analysis Batch:200-44227</b>					
LCS 200-44227/3	Lab Control Sample	T	Air	TO15 LL	
MB 200-44227/4	Method Blank	T	Air	TO15 LL	
200-12398-13	IA-11/FD	T	Air	TO15 LL	
200-12398-14	IA-06	T	Air	TO15 LL	
200-12398-15	IA-13	T	Air	TO15 LL	
200-12398-16	IA-04	T	Air	TO15 LL	
200-12398-17	IA-11	T	Air	TO15 LL	
<b>Analysis Batch:200-44312</b>					
LCS 200-44312/3	Lab Control Sample	T	Air	TO-15	
MB 200-44312/4	Method Blank	T	Air	TO-15	
200-12398-9DL	SSV-08	T	Air	TO-15	

Report Basis

T = Total

TestAmerica Burlington

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1

Laboratory Chronicle

Lab ID: 200-12398-1

Client ID: SSV-01

Sample Date/Time: 08/21/2012 13:55

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-1		200-44193		08/28/2012 20:44	2	TAL BUR	WRD
A:TO-15	200-12398-A-1		200-44193		08/28/2012 20:44	2	TAL BUR	WRD

Lab ID: 200-12398-2

Client ID: SSV-02

Sample Date/Time: 08/21/2012 13:21

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-2		200-44056		08/28/2012 01:22	2	TAL BUR	AHK
A:TO-15	200-12398-A-2		200-44056		08/28/2012 01:22	2	TAL BUR	AHK

Lab ID: 200-12398-3

Client ID: SSV-02/FD

Sample Date/Time: 08/21/2012 13:21

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-3		200-44056		08/28/2012 02:15	2	TAL BUR	AHK
A:TO-15	200-12398-A-3		200-44056		08/28/2012 02:15	2	TAL BUR	AHK

Lab ID: 200-12398-4

Client ID: SSV-04

Sample Date/Time: 08/21/2012 10:30

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-4		200-44193		08/28/2012 21:37	10.1	TAL BUR	WRD
A:TO-15	200-12398-A-4		200-44193		08/28/2012 21:37	10.1	TAL BUR	WRD
P:Summa Canister	200-12398-A-4	DL	200-44193		08/28/2012 22:30	48.8	TAL BUR	WRD
A:TO-15	200-12398-A-4	DL	200-44193		08/28/2012 22:30	48.8	TAL BUR	WRD

Lab ID: 200-12398-5

Client ID: SSV-05

Sample Date/Time: 08/21/2012 11:03

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-5		200-44193		08/28/2012 23:22	28	TAL BUR	WRD
A:TO-15	200-12398-A-5		200-44193		08/28/2012 23:22	28	TAL BUR	WRD
P:Summa Canister	200-12398-A-5	DL	200-44193		08/29/2012 00:15	139	TAL BUR	WRD
A:TO-15	200-12398-A-5	DL	200-44193		08/29/2012 00:15	139	TAL BUR	WRD

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1

Laboratory Chronicle

Lab ID: 200-12398-6

Client ID: SSV-06

Sample Date/Time: 08/21/2012 11:51

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-6		200-44056		08/28/2012 03:08	2	TAL BUR	AHK
A:TO-15	200-12398-A-6		200-44056		08/28/2012 03:08	2	TAL BUR	AHK
P:Summa Canister	200-12398-A-6	DL	200-44056		08/28/2012 04:01	8	TAL BUR	AHK
A:TO-15	200-12398-A-6	DL	200-44056		08/28/2012 04:01	8	TAL BUR	AHK

Lab ID: 200-12398-7

Client ID: SSV-06/FD

Sample Date/Time: 08/21/2012 11:51

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-7		200-44056		08/28/2012 04:54	2	TAL BUR	AHK
A:TO-15	200-12398-A-7		200-44056		08/28/2012 04:54	2	TAL BUR	AHK
P:Summa Canister	200-12398-A-7	DL	200-44056		08/28/2012 05:47	10	TAL BUR	AHK
A:TO-15	200-12398-A-7	DL	200-44056		08/28/2012 05:47	10	TAL BUR	AHK

Lab ID: 200-12398-8

Client ID: SSV-07

Sample Date/Time: 08/21/2012 12:21

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-8		200-44056		08/28/2012 06:39	2	TAL BUR	AHK
A:TO-15	200-12398-A-8		200-44056		08/28/2012 06:39	2	TAL BUR	AHK

Lab ID: 200-12398-9

Client ID: SSV-08

Sample Date/Time: 08/21/2012 09:05

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-9		200-44193		08/29/2012 01:08	47.9	TAL BUR	WRD
A:TO-15	200-12398-A-9		200-44193		08/29/2012 01:08	47.9	TAL BUR	WRD
P:Summa Canister	200-12398-A-9	DL	200-44312		08/30/2012 14:41	303	TAL BUR	KLP
A:TO-15	200-12398-A-9	DL	200-44312		08/30/2012 14:41	303	TAL BUR	KLP

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1

Laboratory Chronicle

Lab ID: 200-12398-10

Client ID: SSV-09

Sample Date/Time: 08/21/2012 09:36

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-10		200-44193		08/29/2012 02:54	4.74	TAL BUR	WRD
A:TO-15	200-12398-A-10		200-44193		08/29/2012 02:54	4.74	TAL BUR	WRD
P:Summa Canister	200-12398-A-10	DL	200-44193		08/29/2012 03:47	23.1	TAL BUR	WRD
A:TO-15	200-12398-A-10	DL	200-44193		08/29/2012 03:47	23.1	TAL BUR	WRD

Lab ID: 200-12398-11

Client ID: SSV-10

Sample Date/Time: 08/22/2012 15:41

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-11		200-44193		08/29/2012 14:21	260	TAL BUR	WRD
A:TO-15	200-12398-A-11		200-44193		08/29/2012 14:21	260	TAL BUR	WRD
P:Summa Canister	200-12398-A-11	DL	200-44193		08/29/2012 15:14	1330	TAL BUR	WRD
A:TO-15	200-12398-A-11	DL	200-44193		08/29/2012 15:14	1330	TAL BUR	WRD

Lab ID: 200-12398-12

Client ID: SSV-11

Sample Date/Time: 08/22/2012 14:33

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-12		200-44193		08/29/2012 04:39	4.68	TAL BUR	WRD
A:TO-15	200-12398-A-12		200-44193		08/29/2012 04:39	4.68	TAL BUR	WRD
P:Summa Canister	200-12398-A-12	DL	200-44193		08/29/2012 05:32	19.1	TAL BUR	WRD
A:TO-15	200-12398-A-12	DL	200-44193		08/29/2012 05:32	19.1	TAL BUR	WRD

Lab ID: 200-12398-13

Client ID: IA-11/FD

Sample Date/Time: 08/22/2012 10:02

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-13		200-44227		08/29/2012 20:53	5.15	TAL BUR	WRD
A:TO15 LL	200-12398-A-13		200-44227		08/29/2012 20:53	5.15	TAL BUR	WRD

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1

Laboratory Chronicle

Lab ID: 200-12398-14

Client ID: IA-06

Sample Date/Time: 08/22/2012 08:33

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-14		200-44227		08/30/2012 12:16	2	TAL BUR	WRD
A:TO15 LL	200-12398-A-14		200-44227		08/30/2012 12:16	2	TAL BUR	WRD

Lab ID: 200-12398-15

Client ID: IA-13

Sample Date/Time: 08/22/2012 08:34

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-15		200-44227		08/29/2012 22:41	1	TAL BUR	WRD
A:TO15 LL	200-12398-A-15		200-44227		08/29/2012 22:41	1	TAL BUR	WRD

Lab ID: 200-12398-16

Client ID: IA-04

Sample Date/Time: 08/22/2012 10:01

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-16		200-44227		08/29/2012 23:35	10	TAL BUR	WRD
A:TO15 LL	200-12398-A-16		200-44227		08/29/2012 23:35	10	TAL BUR	WRD

Lab ID: 200-12398-17

Client ID: IA-11

Sample Date/Time: 08/22/2012 10:02

Received Date/Time: 08/24/2012 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12398-A-17		200-44227		08/30/2012 00:29	5.15	TAL BUR	WRD
A:TO15 LL	200-12398-A-17		200-44227		08/30/2012 00:29	5.15	TAL BUR	WRD

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12398-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-44056/4		200-44056		08/27/2012 18:19	1	TAL BUR	AHK
A:TO-15	MB 200-44056/4		200-44056		08/27/2012 18:19	1	TAL BUR	AHK
P:Summa Canister	MB 200-44193/4		200-44193		08/28/2012 19:51	1	TAL BUR	WRD
A:TO-15	MB 200-44193/4		200-44193		08/28/2012 19:51	1	TAL BUR	WRD
P:Summa Canister	MB 200-44312/4		200-44312		08/30/2012 11:08	1	TAL BUR	KLP
A:TO-15	MB 200-44312/4		200-44312		08/30/2012 11:08	1	TAL BUR	KLP
P:Summa Canister	MB 200-44227/4		200-44227		08/29/2012 17:16	1	TAL BUR	WRD
A:TO15 LL	MB 200-44227/4		200-44227		08/29/2012 17:16	1	TAL BUR	WRD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-44056/3		200-44056		08/27/2012 17:26	1	TAL BUR	AHK
A:TO-15	LCS 200-44056/3		200-44056		08/27/2012 17:26	1	TAL BUR	AHK
P:Summa Canister	LCS 200-44193/3		200-44193		08/28/2012 18:58	1	TAL BUR	WRD
A:TO-15	LCS 200-44193/3		200-44193		08/28/2012 18:58	1	TAL BUR	WRD
P:Summa Canister	LCS 200-44312/3		200-44312		08/30/2012 10:15	1	TAL BUR	KLP
A:TO-15	LCS 200-44312/3		200-44312		08/30/2012 10:15	1	TAL BUR	KLP
P:Summa Canister	LCS 200-44227/3		200-44227		08/29/2012 16:22	1	TAL BUR	WRD
A:TO15 LL	LCS 200-44227/3		200-44227		08/29/2012 16:22	1	TAL BUR	WRD

Lab References:

TAL BUR = TestAmerica Burlington

US EPA ARCHIVE DOCUMENT



# Certification Summary

Client: Burns & McDonnell  
 Project/Site: PKI/26682-3.20.20 - Air

TestAmerica Job ID: 200-12398-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACCLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method T015 Low Level

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Volatile Organic Compounds - Low  
level (GC/MS) by Method TO 15

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: eevz003.d  
 Lab ID: LCS 200-44227/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.187	93	70-130	
1,1-Dichloroethene	0.200	0.210	105	70-130	
trans-1,2-Dichloroethene	0.200	0.185	93	70-130	
cis-1,2-Dichloroethene	0.200	0.183	91	70-130	
Trichloroethene	0.200	0.168	84	70-130	
Tetrachloroethene	0.200	0.146	73	70-130	

US EPA ARCHIVE DOCUMENT

# Column to be used to flag recovery and RPD values

FORM III T015 LL

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevz004.d Lab Sample ID: MB 200-44227/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: E.i Date Analyzed: 08/29/2012 17:16  
 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 200-44227/3	eevz003.d	08/29/2012 16:22
IA-11/FD	200-12398-13	eevz008.d	08/29/2012 20:53
IA-13	200-12398-15	eevz010.d	08/29/2012 22:41
IA-04	200-12398-16	eevz011.d	08/29/2012 23:35
IA-11	200-12398-17	eevz012.d	08/30/2012 00:29
IA-06	200-12398-14	eevz025.d	08/30/2012 12:16

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eev001.d BFB Injection Date: 05/07/2012  
 Instrument ID: E.i BFB Injection Time: 13:39  
 Analysis Batch No.: 38293

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.5	
75	30.0 - 66.0% of mass 95	48.1	
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	0.4	(0.4) 1
174	50.0 - 120.0% of mass 95	92.4	
175	4.0 - 9.0 % of mass 174	6.1	(6.6) 1
176	93.0 - 101.0% of mass 174	88.9	(96.1) 1
177	5.0 - 9.0% of mass 176	5.6	(6.3) 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 200-38293/3	eev003.d	05/07/2012	15:17
	IC 200-38293/4	eev004.d	05/07/2012	16:11
	IC 200-38293/5	eev005.d	05/07/2012	17:05
	IC 200-38293/6	eev006.d	05/07/2012	17:58
	ICIS 200-38293/7	eev007.d	05/07/2012	18:52
	IC 200-38293/8	eev008.d	05/07/2012	19:46
	IC 200-38293/9	eev009.d	05/07/2012	20:40
	IC 200-38293/10	eev010.d	05/07/2012	21:34
	IC 200-38293/11	eev011.d	05/07/2012	22:29
	IC 200-38293/12	eev012.d	05/07/2012	23:23
	ICV 200-38293/14	eev014.d	05/08/2012	01:12

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevz001.d BFB Injection Date: 08/29/2012  
 Instrument ID: E.i BFB Injection Time: 13:17  
 Analysis Batch No.: 44227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	17.2	
75	30.0 - 66.0% of mass 95	48.9	
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	0.4	(0.5) 1
174	50.0 - 120.0% of mass 95	82.0	
175	4.0 - 9.0 % of mass 174	5.6	(6.8) 1
176	93.0 - 101.0% of mass 174	80.2	(97.8) 1
177	5.0 - 9.0% of mass 176	5.4	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44227/2	eevz002.d	08/29/2012	15:28
	LCS 200-44227/3	eevz003.d	08/29/2012	16:22
	MB 200-44227/4	eevz004.d	08/29/2012	17:16
IA-11/FD	200-12398-13	eevz008.d	08/29/2012	20:53
IA-13	200-12398-15	eevz010.d	08/29/2012	22:41
IA-04	200-12398-16	eevz011.d	08/29/2012	23:35
IA-11	200-12398-17	eevz012.d	08/30/2012	00:29
IA-06	200-12398-14	eevz025.d	08/30/2012	12:16

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-38293/7 Date Analyzed: 05/07/2012 18:52  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eev007.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	389908	9.97	1797832	11.41	1556233	15.53
UPPER LIMIT	545871	10.30	2516965	11.74	2178726	15.86
LOWER LIMIT	233945	9.64	1078699	11.08	933740	15.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-38293/14	481465	9.97	2242763	11.41	1959687	15.53

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44227/2 Date Analyzed: 08/29/2012 15:28  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eevz002.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	569772	9.95	2666806	11.40	2286741	15.52		
UPPER LIMIT	797681	10.28	3733528	11.73	3201437	15.85		
LOWER LIMIT	341863	9.62	1600084	11.07	1372045	15.19		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 200-44227/3			512849	9.95	2353512	11.40	2120123	15.51
MB 200-44227/4			406891	9.95	2271295	11.40	1469151	15.52
200-12398-13	IA-11/FD		504114	9.95	2379689	11.40	2117617	15.52
200-12398-15	IA-13		538467	9.95	2575171	11.40	2204578	15.52
200-12398-16	IA-04		529725	9.95	2540773	11.40	2224211	15.52
200-12398-17	IA-11		559174	9.95	2721333	11.40	2408228	15.52
200-12398-14	IA-06		629935	9.95	2989293	11.40	2630186	15.52

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO15 LL

US EPA ARCHIVE DOCUMENT



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-11/FD Lab Sample ID: 200-12398-13  
 Matrix: Air Lab File ID: eevz008.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 10:02  
 Sample wt/vol: 97 (mL) Date Analyzed: 08/29/2012 20:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5.15  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.10
75-35-4	1,1-Dichloroethene	96.94	0.052	U	0.052	0.052
156-60-5	trans-1,2-Dichloroethene	96.94	0.052	U	0.052	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.12		0.052	0.052
540-59-0	1,2-Dichloroethene, Total	96.94	0.12		0.052	0.052
79-01-6	Trichloroethene	131.39	0.26		0.052	0.052
127-18-4	Tetrachloroethene	165.83	2.4		0.052	0.052

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-11/FD Lab Sample ID: 200-12398-13  
 Matrix: Air Lab File ID: eevz008.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 10:02  
 Sample wt/vol: 97 (mL) Date Analyzed: 08/29/2012 20:53  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5.15  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.26	U	0.26	0.26
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.46		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.46		0.20	0.20
79-01-6	Trichloroethene	131.39	1.4		0.28	0.28
127-18-4	Tetrachloroethene	165.83	16		0.35	0.35

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-06 Lab Sample ID: 200-12398-14  
 Matrix: Air Lab File ID: eevz025.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 08:33  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/30/2012 12:16  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	96.94	0.020	U	0.020	0.020
156-60-5	trans-1,2-Dichloroethene	96.94	0.020	U	0.020	0.020
156-59-2	cis-1,2-Dichloroethene	96.94	0.49		0.020	0.020
540-59-0	1,2-Dichloroethene, Total	96.94	0.49		0.020	0.020
79-01-6	Trichloroethene	131.39	1.0		0.020	0.020
127-18-4	Tetrachloroethene	165.83	0.35		0.020	0.020

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-06 Lab Sample ID: 200-12398-14  
 Matrix: Air Lab File ID: eevz025.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 08:33  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/30/2012 12:16  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.10
75-35-4	1,1-Dichloroethene	96.94	0.079	U	0.079	0.079
156-60-5	trans-1,2-Dichloroethene	96.94	0.079	U	0.079	0.079
156-59-2	cis-1,2-Dichloroethene	96.94	2.0		0.079	0.079
540-59-0	1,2-Dichloroethene, Total	96.94	2.0		0.079	0.079
79-01-6	Trichloroethene	131.39	5.5		0.11	0.11
127-18-4	Tetrachloroethene	165.83	2.4		0.14	0.14

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-13 Lab Sample ID: 200-12398-15  
 Matrix: Air Lab File ID: eevz010.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 08:34  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 22:41  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.13		0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.13		0.010	0.010
79-01-6	Trichloroethene	131.39	0.14		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.13		0.010	0.010

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-13 Lab Sample ID: 200-12398-15  
 Matrix: Air Lab File ID: eevz010.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 08:34  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 22:41  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.52		0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.52		0.040	0.040
79-01-6	Trichloroethene	131.39	0.77		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.86		0.068	0.068

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-04 Lab Sample ID: 200-12398-16  
 Matrix: Air Lab File ID: eevz011.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 10:01  
 Sample wt/vol: 50 (mL) Date Analyzed: 08/29/2012 23:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.10	U	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	96.94	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	96.94	0.21		0.10	0.10
540-59-0	1,2-Dichloroethene, Total	96.94	0.21		0.10	0.10
79-01-6	Trichloroethene	131.39	0.44		0.10	0.10
127-18-4	Tetrachloroethene	165.83	5.0		0.10	0.10

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-04 Lab Sample ID: 200-12398-16  
 Matrix: Air Lab File ID: eevz011.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 10:01  
 Sample wt/vol: 50 (mL) Date Analyzed: 08/29/2012 23:35  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.83		0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.83		0.40	0.40
79-01-6	Trichloroethene	131.39	2.3		0.54	0.54
127-18-4	Tetrachloroethene	165.83	34		0.68	0.68

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-11 Lab Sample ID: 200-12398-17  
 Matrix: Air Lab File ID: eevz012.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 10:02  
 Sample wt/vol: 97 (mL) Date Analyzed: 08/30/2012 00:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5.15  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.10
75-35-4	1,1-Dichloroethene	96.94	0.052	U	0.052	0.052
156-60-5	trans-1,2-Dichloroethene	96.94	0.052	U	0.052	0.052
156-59-2	cis-1,2-Dichloroethene	96.94	0.10		0.052	0.052
540-59-0	1,2-Dichloroethene, Total	96.94	0.10		0.052	0.052
79-01-6	Trichloroethene	131.39	0.22		0.052	0.052
127-18-4	Tetrachloroethene	165.83	2.3		0.052	0.052

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-11 Lab Sample ID: 200-12398-17  
 Matrix: Air Lab File ID: eevz012.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 10:02  
 Sample wt/vol: 97 (mL) Date Analyzed: 08/30/2012 00:29  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 5.15  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.26	U	0.26	0.26
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.41		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.41		0.20	0.20
79-01-6	Trichloroethene	131.39	1.2		0.28	0.28
127-18-4	Tetrachloroethene	165.83	15		0.35	0.35

US EPA ARCHIVE DOCUMENT

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-38293/3	eev003.d
Level 2	IC 200-38293/4	eev004.d
Level 3	IC 200-38293/5	eev005.d
Level 4	IC 200-38293/6	eev006.d
Level 5	ICIS 200-38293/7	eev007.d
Level 6	IC 200-38293/8	eev008.d
Level 7	IC 200-38293/9	eev009.d
Level 8	IC 200-38293/10	eev010.d
Level 9	IC 200-38293/11	eev011.d
Level 10	IC 200-38293/12	eev012.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10		B	M1	M2								
Dichlorodifluoromethane	1.9436 1.6614	1.6731 ++++	1.9990 1.6133	1.6276 ++++	1.6416 ++++	Ave		1.7371			9.3		30.0				
1,2-Dichlorotetrafluoroethane	1.9404 1.4320	1.4443 ++++	1.8031 1.4094	1.4184 ++++	1.3849 ++++	Ave		1.5475			14.6		30.0				
Chloromethane	++++ 0.2969	++++ 0.2825	++++ 0.2922	0.3460 0.2834	0.3215 0.2814	Ave		0.3006			8.1		30.0				
Vinyl chloride	++++ 0.3675	0.4081 ++++	0.4993 0.3693	0.3602 ++++	0.3633 ++++	Ave		0.3946			13.7		30.0				
1,3-Butadiene	++++ 0.2401	0.2644 ++++	0.3253 0.2387	0.2679 ++++	0.2533 ++++	Ave		0.2650			12.1		30.0				
Bromomethane	++++ 0.4584	0.5018 ++++	0.6976 0.4626	0.5089 ++++	0.4862 ++++	Ave		0.5193			17.3		30.0				
Bromoethene (Vinyl Bromide)	++++ 0.5546	0.5432 ++++	0.6996 0.5582	0.5809 ++++	0.5492 ++++	Ave		0.5810			10.2		30.0				
Chloroethane	++++ 0.1924	0.2334 ++++	0.2750 0.1969	0.2324 ++++	0.2046 ++++	Ave		0.2224			14.0		30.0				
Trichlorofluoromethane	2.9085 2.1036	2.1355 ++++	2.6548 2.0460	2.0871 ++++	2.0748 ++++	Ave		2.2872			15.2		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	++++ 1.3316	++++ ++++	1.7443 1.3816	1.3859 ++++	1.3531 ++++	Ave		1.4393			11.9		30.0				
1,1-Dichloroethene	0.7258 0.5937	0.6408 ++++	0.7922 0.6184	0.6123 ++++	0.5840 ++++	Ave		0.6525			11.9		30.0				
3-Chloropropene	++++ 0.5338	0.7974 ++++	0.7779 0.5879	0.6198 ++++	0.5739 ++++	Ave		0.6484			17.2		30.0				
Methylene Chloride	++++ 0.6812	++++ 0.6482	++++ 0.6765	0.9114 0.6088	0.8512 0.6109	Ave		0.7126			16.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

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 9	LVL 10												
trans-1,2-Dichloroethene	1.1921 0.8902	0.9862 ++++	1.1430 0.9210	0.9101 ++++	0.9229 ++++	Ave		0.9951			12.3		30.0				
Methyl tert-butyl ether	1.7019 1.4203	1.4331 ++++	1.8746 1.6693	1.3256 ++++	1.5380 ++++	Ave		1.5661			12.3		30.0				
n-Hexane	++++ 0.8198	1.0771 ++++	1.1659 0.9002	0.8668 ++++	0.8725 ++++	Ave		0.9504			14.5		30.0				
1,1-Dichloroethane	1.3420 0.9799	1.1142 ++++	1.2654 1.0532	1.0503 ++++	1.0535 ++++	Ave		1.1226			11.7		30.0				
cis-1,2-Dichloroethene	0.7596 0.5199	0.5905 ++++	0.6629 0.5854	0.5775 ++++	0.5509 ++++	Ave		0.6067			13.2		30.0				
1,2-Dichloroethane	++++ 0.1597	0.1667 ++++	0.2183 0.1796	0.1695 ++++	0.1773 ++++	Ave		0.1785			11.7		30.0				
Chloroform	1.9071 1.2756	1.4032 ++++	1.5880 1.3941	1.3084 ++++	1.3645 ++++	Ave		1.4630			15.0		30.0				
Cyclohexane	0.2486 0.1772	0.2011 ++++	0.2429 0.1869	0.1933 ++++	0.1874 ++++	Ave		0.2053			13.9		30.0				
1,1,1-Trichloroethane	0.4915 0.3511	0.3757 ++++	0.4482 0.3619	0.3645 ++++	0.3794 ++++	Ave		0.3961			13.3		30.0				
Carbon tetrachloride	0.5174 0.4208	0.4138 ++++	0.5264 0.4235	0.4277 ++++	0.4336 ++++	Ave		0.4519			10.7		30.0				
2,2,4-Trimethylpentane	0.7323 0.4796	0.5736 ++++	0.6460 0.5217	0.5199 ++++	0.5329 ++++	Ave		0.5723			15.4		30.0				
Benzene	0.5676 0.3012	0.3896 ++++	0.4308 0.3386	0.3252 ++++	0.3495 ++++	Ave		0.3861			23.5		30.0				
1,2-Dichloropropane	++++ 0.0956	0.1048 ++++	0.1276 0.1132	0.0960 ++++	0.1107 ++++	Ave		0.1080			11.2		30.0				
n-Heptane	0.2669 0.1562	0.1961 ++++	0.2382 0.1776	0.1761 ++++	0.1947 ++++	Ave		0.2008			19.2		30.0				
Trichloroethene	0.2397 0.1579	0.1880 ++++	0.1944 0.1729	0.1654 ++++	0.1807 ++++	Ave		0.1856			14.6		30.0				
Bromodichloromethane	0.3126 0.2557	0.2484 ++++	0.3040 0.2940	0.2484 ++++	0.2780 ++++	Ave		0.2773			9.7		30.0				
cis-1,3-Dichloropropene	0.1840 0.1391	0.1384 ++++	0.1714 0.1701	0.1360 ++++	0.1602 ++++	Ave		0.1570			12.3		30.0				
Toluene	0.3328 0.2239	0.2505 ++++	0.3107 0.2710	0.2303 ++++	0.2582 ++++	Ave		0.2682			15.1		30.0				
trans-1,3-Dichloropropene	0.1407 0.1275	0.1148 ++++	0.1328 0.1610	0.1258 ++++	0.1506 ++++	Ave		0.1362			11.6		30.0				
1,1,2-Trichloroethane	0.1260 0.1104	0.1092 ++++	0.1400 0.1349	0.1156 ++++	0.1282 ++++	Ave		0.1235			9.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Tetrachloroethene	0.4218 0.2556	0.3118 ++++	0.3631 0.2912	0.2875 ++++	0.2922 ++++	Ave		0.3176			17.7		30.0				
Dibromochloromethane	0.2919 0.2567	0.2243 ++++	0.3067 0.3145	0.2718 ++++	0.2718 ++++	Ave		0.2723			12.5		30.0				
1,2-Dibromoethane	0.2297 0.1904	0.1781 ++++	0.2212 0.2390	0.1808 ++++	0.2139 ++++	Ave		0.2076			11.8		30.0				
Chlorobenzene	++++ 0.3111	++++ 0.3244	0.4135 0.3672	0.3120 0.2787	0.3551 0.2989	Ave		0.3326			13.1		30.0				
Ethylbenzene	0.4753 0.4498	0.3923 ++++	0.4813 0.5769	0.4313 ++++	0.5178 ++++	Ave		0.4750			12.6		30.0				
m-Xylene & p-Xylene	0.1304 0.1696	0.1144 ++++	0.1468 0.2181	0.1445 ++++	0.1884 ++++	Ave		0.1589			22.5		30.0				
o-Xylene	0.1246 0.1579	0.1081 ++++	0.1317 0.2142	0.1363 ++++	0.1748 ++++	Ave		0.1497			24.0		30.0				
Bromoform	0.1744 0.1825	0.1449 ++++	0.1750 0.2436	0.1664 ++++	0.2020 ++++	Ave		0.1841			17.0		30.0				
1,1,2,2-Tetrachloroethane	0.1599 0.1100	0.1253 ++++	0.1651 0.1383	0.1314 ++++	0.1706 ++++	Ave		0.1429			15.9		30.0				
4-Ethyltoluene	0.2617 0.2267	0.2523 ++++	0.3084 0.3547	0.2493 ++++	0.3357 ++++	Ave		0.2841			17.2		30.0				
1,3,5-Trimethylbenzene	++++ 0.1874	0.1948 ++++	0.2563 0.2664	0.2041 ++++	0.2755 ++++	Ave		0.2308			17.1		30.0				
1,2,4-Trimethylbenzene	++++ 0.1641	++++ 0.1970	0.2480 0.2283	0.1946 0.2181	0.2542 0.2675	Ave		0.2215			15.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-38293/3	eev003.d
Level 2	IC 200-38293/4	eev004.d
Level 3	IC 200-38293/5	eev005.d
Level 4	IC 200-38293/6	eev006.d
Level 5	ICIS 200-38293/7	eev007.d
Level 6	IC 200-38293/8	eev008.d
Level 7	IC 200-38293/9	eev009.d
Level 8	IC 200-38293/10	eev010.d
Level 9	IC 200-38293/11	eev011.d
Level 10	IC 200-38293/12	eev012.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE						CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	
Dichlorodifluoromethane	BCM	Ave	3618	6998	12952	32420	64008	0.0100	0.0200	0.0400	0.100	0.200	
			166204	+++++	335296	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,2-Dichlorotetrafluoroethane	BCM	Ave	3612	6041	11683	28254	53999	0.0100	0.0200	0.0400	0.100	0.200	
			143251	+++++	292910	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Chloromethane	BCM	Ave	+++++	+++++	+++++	6893	12535	+++++	+++++	+++++	0.100	0.200	
			29704	43712	60729	98653	132526	0.500	0.750	1.00	1.50	2.00	
Vinyl chloride	BCM	Ave	+++++	1707	3235	7175	14167	+++++	0.0200	0.0400	0.100	0.200	
			36764	+++++	76744	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,3-Butadiene	BCM	Ave	+++++	1106	2108	5336	9875	+++++	0.0200	0.0400	0.100	0.200	
			24023	+++++	49602	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Bromomethane	BCM	Ave	+++++	2099	4520	10136	18958	+++++	0.0200	0.0400	0.100	0.200	
			45859	+++++	96142	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Bromoethene (Vinyl Bromide)	BCM	Ave	+++++	2272	4533	11571	21413	+++++	0.0200	0.0400	0.100	0.200	
			55482	+++++	116018	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Chloroethane	BCM	Ave	+++++	976	1782	4629	7976	+++++	0.0200	0.0400	0.100	0.200	
			19250	+++++	40926	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Trichlorofluoromethane	BCM	Ave	5414	8932	17201	41574	80898	0.0100	0.0200	0.0400	0.100	0.200	
			210439	+++++	425214	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	+++++	+++++	11302	27606	52758	+++++	+++++	0.0400	0.100	0.200	
			133209	+++++	287138	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,1-Dichloroethene	BCM	Ave	1351	2680	5133	12197	22770	0.0100	0.0200	0.0400	0.100	0.200	
			59395	+++++	128518	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
3-Chloropropene	BCM	Ave	+++++	3335	5040	12345	22375	+++++	0.0200	0.0400	0.100	0.200	
			53398	+++++	122183	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Methylene Chloride	BCM	Ave	+++++	+++++	+++++	18155	33188	+++++	+++++	+++++	0.100	0.200	
			68149	100280	140601	211926	287639	0.500	0.750	1.00	1.50	2.00	
trans-1,2-Dichloroethene	BCM	Ave	2219	4125	7406	18128	35983	0.0100	0.0200	0.0400	0.100	0.200	
			89051	+++++	191400	+++++	+++++	0.500	+++++	1.00	+++++	+++++	

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INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Methyl tert-butyl ether	BCM	Ave	3168 142086	5994 ++++	12146 346926	26404 ++++	59967 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
n-Hexane	BCM	Ave	++++ 82013	4505 ++++	7554 187077	17266 ++++	34019 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1-Dichloroethane	BCM	Ave	2498 98025	4660 ++++	8199 218876	20921 ++++	41076 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
cis-1,2-Dichloroethene	BCM	Ave	1414 52010	2470 ++++	4295 121659	11504 ++++	21481 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2-Dichloroethane	DFB	Ave	++++ 75237	3280 ++++	6679 179646	16008 ++++	31879 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Chloroform	BCM	Ave	3550 127607	5869 ++++	10289 289725	26063 ++++	53201 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Cyclohexane	DFB	Ave	2180 83466	3957 ++++	7431 186930	18256 ++++	33685 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,1-Trichloroethane	DFB	Ave	4310 165428	7392 ++++	13709 361982	34425 ++++	68203 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Carbon tetrachloride	DFB	Ave	4537 198249	8140 ++++	16101 423548	40391 ++++	77953 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
2,2,4-Trimethylpentane	DFB	Ave	6421 225957	11285 ++++	19762 521828	49107 ++++	95805 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Benzene	DFB	Ave	4977 141918	7664 ++++	13179 338611	30711 ++++	62838 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2-Dichloropropane	DFB	Ave	++++ 45027	2061 ++++	3904 113173	9066 ++++	19902 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
n-Heptane	DFB	Ave	2340 73585	3857 ++++	7285 177670	16629 ++++	34999 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Trichloroethene	DFB	Ave	2102 74367	3698 ++++	5946 172944	15623 ++++	32481 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Bromodichloromethane	DFB	Ave	2741 120465	4886 ++++	9299 294045	23458 ++++	49983 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
cis-1,3-Dichloropropene	DFB	Ave	1613 65513	2723 ++++	5242 170124	12846 ++++	28803 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Toluene	CBZ	Ave	2458 92194	4175 ++++	7844 237864	18314 ++++	40175 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
trans-1,3-Dichloropropene	DFB	Ave	1234 60073	2258 ++++	4061 161015	11877 ++++	27068 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,2-Trichloroethane	CBZ	Ave	931 45481	1820 ++++	3536 118460	9191 ++++	19947 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Tetrachloroethene	CBZ	Ave	3116 105267	5197 ++++	9167 255619	22865 ++++	45478 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Dibromochloromethane	CBZ	Ave	2156 105711	3739 ++++	7745 276035	19103 ++++	42294 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dibromoethane	CBZ	Ave	1697 78431	2968 ++++	5585 209756	14376 ++++	33286 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Chlorobenzene	CBZ	Ave	++++ 128122	++++ 216597	10442 322333	24811 393580	55257 583736	++++ 0.500	++++ 0.750	0.0400 1.00	0.100 1.50	0.200 2.00
Ethylbenzene	CBZ	Ave	3511 185245	6539 ++++	12152 506417	34297 ++++	80579 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
m-Xylene & p-Xylene	CBZ	Ave	1927 139686	3813 ++++	7411 382855	22983 ++++	58643 ++++	0.0200 1.00	0.0400 ++++	0.0800 2.00	0.200 ++++	0.400 ++++
o-Xylene	CBZ	Ave	920 65023	1802 ++++	3325 188056	10842 ++++	27200 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Bromoform	CBZ	Ave	1288 75155	2416 ++++	4419 213860	13232 ++++	31442 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,2,2-Tetrachloroethane	CBZ	Ave	1181 45295	2089 ++++	4169 121418	10450 ++++	26551 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
4-Ethyltoluene	CBZ	Ave	1933 93381	4206 ++++	7787 311360	19824 ++++	52243 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 77169	3248 ++++	6471 233840	16234 ++++	42868 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 67563	++++ 131535	6261 200372	15474 308004	39567 522269	++++ 0.500	++++ 0.750	0.0400 1.00	0.100 1.50	0.200 2.00

Curve Type Legend:

Ave = Average ISTD



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-38293/14 Calibration Date: 05/08/2012 01:12  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eev014.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
Dichlorodifluoromethane	Ave	1.737	1.512		0.174	0.200	-13.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.390		0.179	0.200	-10.1	30.0
Chloromethane	Ave	0.3006	0.3313		0.220	0.200	10.2	30.0
Vinyl chloride	Ave	0.3946	0.3702		0.187	0.200	-6.2	30.0
1,3-Butadiene	Ave	0.2650	0.2582		0.194	0.200	-2.5	30.0
Bromomethane	Ave	0.5193	0.4447		0.171	0.200	-14.4	30.0
Chloroethane	Ave	0.2224	0.2115		0.190	0.200	-4.9	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.6047		0.208	0.200	4.1	30.0
Trichlorofluoromethane	Ave	2.287	2.047		0.179	0.200	-10.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.524		0.211	0.200	5.9	30.0
1,1-Dichloroethene	Ave	0.6525	0.7097		0.217	0.200	8.8	30.0
3-Chloropropene	Ave	0.6484	0.6000		0.185	0.200	-7.5	30.0
Methylene Chloride	Ave	0.7126	0.8038		0.225	0.200	12.8	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9575		0.192	0.200	-3.8	30.0
Methyl tert-butyl ether	Ave	1.566	1.662		0.212	0.200	6.1	30.0
n-Hexane	Ave	0.9504	0.9212		0.193	0.200	-3.1	30.0
1,1-Dichloroethane	Ave	1.123	1.035		0.184	0.200	-7.8	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.6057		0.199	0.200	-0.2	30.0
Chloroform	Ave	1.463	1.342		0.183	0.200	-8.3	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3566		0.180	0.200	-10.0	30.0
Cyclohexane	Ave	0.2053	0.2008		0.195	0.200	-2.2	30.0
Carbon tetrachloride	Ave	0.4519	0.4049		0.179	0.200	-10.4	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5537		0.193	0.200	-3.2	30.0
Benzene	Ave	0.3861	0.3602		0.186	0.200	-6.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1709		0.191	0.200	-4.3	30.0
n-Heptane	Ave	0.2008	0.1950		0.194	0.200	-2.9	30.0
Trichloroethene	Ave	0.1856	0.1760		0.189	0.200	-5.1	30.0
1,2-Dichloropropane	Ave	0.1080	0.1127		0.208	0.200	4.3	30.0
Bromodichloromethane	Ave	0.2773	0.2741		0.197	0.200	-1.1	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1574		0.200	0.200	0.3	30.0
Toluene	Ave	0.2682	0.2776		0.207	0.200	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1430		0.210	0.200	5.0	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1234		0.199	0.200	-0.0	30.0
Tetrachloroethene	Ave	0.3176	0.2750		0.173	0.200	-13.4	30.0
Dibromochloromethane	Ave	0.2723	0.2743		0.201	0.200	0.7	30.0
1,2-Dibromoethane	Ave	0.2076	0.2023		0.194	0.200	-2.6	30.0
Chlorobenzene	Ave	0.3326	0.3556		0.213	0.200	6.9	30.0
Ethylbenzene	Ave	0.4750	0.5302		0.223	0.200	11.6	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1904		0.478	0.399	19.8	30.0
o-Xylene	Ave	0.1497	0.1735		0.231	0.200	16.0	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-38293/14 Calibration Date: 05/08/2012 01:12  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eev014.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
Bromoform	Ave	0.1841	0.1877		0.203	0.200	1.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1545		0.216	0.200	8.0	30.0
4-Ethyltoluene	Ave	0.2841	0.3397		0.239	0.200	19.6	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2693		0.233	0.200	16.7	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.2518		0.227	0.200	13.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44227/2 Calibration Date: 08/29/2012 15:28  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevz002.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
Dichlorodifluoromethane	Ave	1.737	1.605		0.185	0.200	-7.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.421		0.184	0.200	-8.2	30.0
Chloromethane	Ave	0.3006	0.3357		0.224	0.200	11.7	30.0
Vinyl chloride	Ave	0.3946	0.3858		0.196	0.200	-2.2	30.0
1,3-Butadiene	Ave	0.2650	0.2613		0.198	0.200	-1.4	30.0
Bromomethane	Ave	0.5193	0.4579		0.177	0.200	-11.8	30.0
Chloroethane	Ave	0.2224	0.2227		0.201	0.200	0.1	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.5844		0.202	0.200	0.6	30.0
Trichlorofluoromethane	Ave	2.287	2.159		0.189	0.200	-5.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.434		0.200	0.200	-0.4	30.0
1,1-Dichloroethene	Ave	0.6525	0.6537		0.201	0.200	0.2	30.0
3-Chloropropene	Ave	0.6484	0.6859		0.212	0.200	5.8	30.0
Methylene Chloride	Ave	0.7126	0.8325		0.234	0.200	16.8	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9748		0.196	0.200	-2.0	30.0
Methyl tert-butyl ether	Ave	1.566	1.499		0.192	0.200	-4.3	30.0
n-Hexane	Ave	0.9504	0.9667		0.204	0.200	1.7	30.0
1,1-Dichloroethane	Ave	1.123	1.128		0.201	0.200	0.5	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.6037		0.199	0.200	-0.5	30.0
Chloroform	Ave	1.463	1.412		0.193	0.200	-3.5	30.0
Cyclohexane	Ave	0.2053	0.1860		0.182	0.200	-9.4	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3628		0.184	0.200	-8.4	30.0
Carbon tetrachloride	Ave	0.4519	0.3908		0.173	0.200	-13.5	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5721		0.200	0.200	-0.0	30.0
Benzene	Ave	0.3861	0.3717		0.193	0.200	-3.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1773		0.199	0.200	-0.7	30.0
n-Heptane	Ave	0.2008	0.2022		0.202	0.200	0.7	30.0
Trichloroethene	Ave	0.1856	0.1815		0.196	0.200	-2.2	30.0
1,2-Dichloropropane	Ave	0.1080	0.1156		0.215	0.200	7.1	30.0
Bromodichloromethane	Ave	0.2773	0.2593		0.187	0.200	-6.5	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1547		0.197	0.200	-1.5	30.0
Toluene	Ave	0.2682	0.2582		0.193	0.200	-3.7	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1455		0.214	0.200	6.8	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1232		0.200	0.200	-0.3	30.0
Tetrachloroethene	Ave	0.3176	0.2776		0.175	0.200	-12.6	30.0
Dibromochloromethane	Ave	0.2723	0.2505		0.184	0.200	-8.0	30.0
1,2-Dibromoethane	Ave	0.2076	0.2150		0.208	0.200	3.5	30.0
Chlorobenzene	Ave	0.3326	0.3479		0.210	0.200	4.6	30.0
Ethylbenzene	Ave	0.4750	0.4893		0.207	0.200	3.0	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1687		0.426	0.401	6.2	30.0
o-Xylene	Ave	0.1497	0.1607		0.215	0.200	7.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44227/2 Calibration Date: 08/29/2012 15:28  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevz002.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
Bromoform	Ave	0.1841	0.1761		0.192	0.200	-4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1848		0.259	0.200	29.3	30.0
4-Ethyltoluene	Ave	0.2841	0.3237		0.228	0.200	13.9	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2519		0.219	0.200	9.2	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.2050		0.186	0.200	-7.4	30.0

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44227/4  
 Matrix: Air Lab File ID: eevz004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 17:16  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.010	U	0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.010	U	0.010	0.010

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44227/4  
 Matrix: Air Lab File ID: eevz004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 17:16  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.054	U	0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.068	U	0.068	0.068

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44227/3  
 Matrix: Air Lab File ID: eevz003.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 16:22  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.187		0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.210		0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.185		0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.183		0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.368		0.010	0.010
79-01-6	Trichloroethene	131.39	0.168		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.146		0.010	0.010

US EPA ARCHIVE DOCUMENT

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 05/07/2012 13:39

Analysis Batch Number: 38293 End Date: 05/08/2012 12:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-38293/1		05/07/2012 13:39	1	eev001.d	RTX-624 0.32 (mm)
VIBLK 200-38293/2		05/07/2012 14:23	1		RTX-624 0.32 (mm)
IC 200-38293/3		05/07/2012 15:17	1	eev003.d	RTX-624 0.32 (mm)
IC 200-38293/4		05/07/2012 16:11	1	eev004.d	RTX-624 0.32 (mm)
IC 200-38293/5		05/07/2012 17:05	1	eev005.d	RTX-624 0.32 (mm)
IC 200-38293/6		05/07/2012 17:58	1	eev006.d	RTX-624 0.32 (mm)
ICIS 200-38293/7		05/07/2012 18:52	1	eev007.d	RTX-624 0.32 (mm)
IC 200-38293/8		05/07/2012 19:46	1	eev008.d	RTX-624 0.32 (mm)
IC 200-38293/9		05/07/2012 20:40	1	eev009.d	RTX-624 0.32 (mm)
IC 200-38293/10		05/07/2012 21:34	1	eev010.d	RTX-624 0.32 (mm)
IC 200-38293/11		05/07/2012 22:29	1	eev011.d	RTX-624 0.32 (mm)
IC 200-38293/12		05/07/2012 23:23	1	eev012.d	RTX-624 0.32 (mm)
VIBLK 200-38293/13		05/08/2012 00:18	1		RTX-624 0.32 (mm)
ICV 200-38293/14		05/08/2012 01:12	1	eev014.d	RTX-624 0.32 (mm)
VIBLK 200-38293/15		05/08/2012 02:07	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 03:01	1		RTX-624 0.32 (mm)
VIBLK 200-38293/17		05/08/2012 03:56	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 04:50	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 05:44	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 06:39	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 07:33	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 08:27	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 09:21	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 10:16	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 11:11	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 12:05	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 12:59	4		RTX-624 0.32 (mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 08/29/2012 13:17

Analysis Batch Number: 44227 End Date: 08/30/2012 13:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44227/1		08/29/2012 13:17	1	eevz001.d	RTX-624 0.32 (mm)
CCVIS 200-44227/2		08/29/2012 15:28	1	eevz002.d	RTX-624 0.32 (mm)
LCS 200-44227/3		08/29/2012 16:22	1	eevz003.d	RTX-624 0.32 (mm)
MB 200-44227/4		08/29/2012 17:16	1	eevz004.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 18:11	6.33		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 19:05	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 19:59	2		RTX-624 0.32 (mm)
200-12398-13	IA-11/FD	08/29/2012 20:53	5.15	eevz008.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 21:47	1		RTX-624 0.32 (mm)
200-12398-15	IA-13	08/29/2012 22:41	1	eevz010.d	RTX-624 0.32 (mm)
200-12398-16	IA-04	08/29/2012 23:35	10	eevz011.d	RTX-624 0.32 (mm)
200-12398-17	IA-11	08/30/2012 00:29	5.15	eevz012.d	RTX-624 0.32 (mm)
VIBLK 200-44227/13		08/30/2012 01:24	1		RTX-624 0.32 (mm)
VIBLK 200-44227/14		08/30/2012 02:18	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 03:12	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 04:07	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 05:02	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 05:56	10		RTX-624 0.32 (mm)
VIBLK 200-44227/19		08/30/2012 06:51	1		RTX-624 0.32 (mm)
VIBLK 200-44227/20		08/30/2012 07:45	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 08:40	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 09:34	10		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 10:28	10		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 11:22	4		RTX-624 0.32 (mm)
200-12398-14	IA-06	08/30/2012 12:16	2	eevz025.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 13:10	2.99		RTX-624 0.32 (mm)

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Analyst
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**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)

Vol = Volume of SUMMA canister at atmospheric pressure

# Method T015

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Volatile Organic Compounds (GC/MS)  
by Method T015

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: ggri003.d  
 Lab ID: LCS 200-44056/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	10.0	7.93	79	70-130	
1,1-Dichloroethene	10.0	9.63	96	70-130	
trans-1,2-Dichloroethene	10.0	8.80	88	70-130	
cis-1,2-Dichloroethene	10.0	9.28	93	70-130	
Trichloroethene	10.0	8.76	88	70-130	
Tetrachloroethene	10.0	9.51	95	70-130	

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# 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.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: ggrj003.d  
 Lab ID: LCS 200-44193/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	10.0	7.43	74	70-130	
1,1-Dichloroethene	10.0	9.25	93	70-130	
trans-1,2-Dichloroethene	10.0	8.45	85	70-130	
cis-1,2-Dichloroethene	10.0	8.90	89	70-130	
Trichloroethene	10.0	8.48	85	70-130	
Tetrachloroethene	10.0	9.11	91	70-130	

US EPA ARCHIVE DOCUMENT

# 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.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: ckz1003.d  
 Lab ID: LCS 200-44312/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	10.0	9.46	95	70-130	
1,1-Dichloroethene	10.0	10.9	109	70-130	
trans-1,2-Dichloroethene	10.0	9.84	98	70-130	
cis-1,2-Dichloroethene	10.0	9.89	99	70-130	
Trichloroethene	10.0	9.73	97	70-130	
Tetrachloroethene	10.0	9.76	98	70-130	

US EPA ARCHIVE DOCUMENT

# 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.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggri004.d Lab Sample ID: MB 200-44056/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: G.i Date Analyzed: 08/27/2012 18:19  
 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 200-44056/3	ggri003.d	08/27/2012 17:26
SSV-02	200-12398-2	ggri012.d	08/28/2012 01:22
SSV-02/FD	200-12398-3	ggri013.d	08/28/2012 02:15
SSV-06	200-12398-6	ggri014.d	08/28/2012 03:08
SSV-06 DL	200-12398-6 DL	ggri015.d	08/28/2012 04:01
SSV-06/FD	200-12398-7	ggri016.d	08/28/2012 04:54
SSV-06/FD DL	200-12398-7 DL	ggri017.d	08/28/2012 05:47
SSV-07	200-12398-8	ggri018.d	08/28/2012 06:39

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FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggrj004.d Lab Sample ID: MB 200-44193/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: G.i Date Analyzed: 08/28/2012 19:51  
 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 200-44193/3	ggrj003.d	08/28/2012 18:58
SSV-01	200-12398-1	ggrj005.d	08/28/2012 20:44
SSV-04	200-12398-4	ggrj006.d	08/28/2012 21:37
SSV-04 DL	200-12398-4 DL	ggrj007.d	08/28/2012 22:30
SSV-05	200-12398-5	ggrj008.d	08/28/2012 23:22
SSV-05 DL	200-12398-5 DL	ggrj009.d	08/29/2012 00:15
SSV-08	200-12398-9	ggrj010.d	08/29/2012 01:08
SSV-09	200-12398-10	ggrj012.d	08/29/2012 02:54
SSV-09 DL	200-12398-10 DL	ggrj013.d	08/29/2012 03:47
SSV-11	200-12398-12	ggrj014.d	08/29/2012 04:39
SSV-11 DL	200-12398-12 DL	ggrj015.d	08/29/2012 05:32
SSV-10	200-12398-11	ggrj025.d	08/29/2012 14:21
SSV-10 DL	200-12398-11 DL	ggrj026.d	08/29/2012 15:14

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FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz1004.d Lab Sample ID: MB 200-44312/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: C.i Date Analyzed: 08/30/2012 11:08  
 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 200-44312/3	ckz1003.d	08/30/2012 10:15
SSV-08 DL	200-12398-9 DL	ckz1008.d	08/30/2012 14:41

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz001.d BFB Injection Date: 08/14/2012  
 Instrument ID: C.i BFB Injection Time: 16:28  
 Analysis Batch No.: 43490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.2	
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	0.3	(0.3) 1
174	50.0 - 120.0% of mass 95	80.2	
175	4.0 - 9.0 % of mass 174	5.6	(6.9) 1
176	93.0 - 101.0% of mass 174	77.7	(96.9) 1
177	5.0 - 9.0% of mass 176	5.1	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-43490/3	ckz003.d	08/14/2012	18:13
	IC 200-43490/4	ckz004.d	08/14/2012	19:07
	IC 200-43490/5	ckz005.d	08/14/2012	20:00
	IC 200-43490/6	ckz006.d	08/14/2012	20:53
	IC 200-43490/8	ckz008.d	08/14/2012	22:41
	IC 200-43490/9	ckz009.d	08/14/2012	23:34
	IC 200-43490/10	ckz010.d	08/15/2012	00:28
	ICIS 200-43490/15	ckz015.d	08/15/2012	08:24
	ICV 200-43490/18	ckz018.d	08/15/2012	11:09

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz1001.d BFB Injection Date: 08/30/2012  
 Instrument ID: C.i BFB Injection Time: 08:28  
 Analysis Batch No.: 44312

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.3	
75	30.0 - 66.0% of mass 95	48.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.3	(0.4) 1
174	50.0 - 120.0% of mass 95	83.2	
175	4.0 - 9.0 % of mass 174	5.7	(6.9) 1
176	93.0 - 101.0% of mass 174	80.7	(97.0) 1
177	5.0 - 9.0% of mass 176	5.3	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44312/2	ckz1002.d	08/30/2012	09:21
	LCS 200-44312/3	ckz1003.d	08/30/2012	10:15
	MB 200-44312/4	ckz1004.d	08/30/2012	11:08
SSV-08 DL	200-12398-9 DL	ckz1008.d	08/30/2012	14:41

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggr001.d BFB Injection Date: 08/15/2012  
 Instrument ID: G.i BFB Injection Time: 17:30  
 Analysis Batch No.: 43550

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.5	
75	30.0 - 66.0% of mass 95	44.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.5	(0.5) 1
174	50.0 - 120.0% of mass 95	108.2	
175	4.0 - 9.0 % of mass 174	7.4	(6.9) 1
176	93.0 - 101.0% of mass 174	104.7	(96.7) 1
177	5.0 - 9.0% of mass 176	6.5	(6.2) 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 200-43550/3	ggr003.d	08/15/2012	20:58
	IC 200-43550/4	ggr004.d	08/15/2012	21:51
	IC 200-43550/5	ggr005.d	08/15/2012	22:43
	IC 200-43550/6	ggr006.d	08/15/2012	23:36
	ICIS 200-43550/7	ggr007.d	08/16/2012	00:28
	IC 200-43550/8	ggr008.d	08/16/2012	01:21
	IC 200-43550/9	ggr009.d	08/16/2012	02:14
	IC 200-43550/10	ggr010.d	08/16/2012	03:07
	ICV 200-43550/12	ggr012.d	08/16/2012	04:52

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggri001.d BFB Injection Date: 08/27/2012  
 Instrument ID: G.i BFB Injection Time: 15:36  
 Analysis Batch No.: 44056

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.6	
75	30.0 - 66.0% of mass 95	45.9	
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	0.6	(0.5) 1
174	50.0 - 120.0% of mass 95	113.0	
175	4.0 - 9.0 % of mass 174	7.7	(6.8) 1
176	93.0 - 101.0% of mass 174	112.2	(99.3) 1
177	5.0 - 9.0% of mass 176	7.3	(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
	CCVIS 200-44056/2	ggri002.d	08/27/2012	16:33
	LCS 200-44056/3	ggri003.d	08/27/2012	17:26
	MB 200-44056/4	ggri004.d	08/27/2012	18:19
SSV-02	200-12398-2	ggri012.d	08/28/2012	01:22
SSV-02/FD	200-12398-3	ggri013.d	08/28/2012	02:15
SSV-06	200-12398-6	ggri014.d	08/28/2012	03:08
SSV-06 DL	200-12398-6 DL	ggri015.d	08/28/2012	04:01
SSV-06/FD	200-12398-7	ggri016.d	08/28/2012	04:54
SSV-06/FD DL	200-12398-7 DL	ggri017.d	08/28/2012	05:47
SSV-07	200-12398-8	ggri018.d	08/28/2012	06:39

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggrj001.d BFB Injection Date: 08/28/2012  
 Instrument ID: G.i BFB Injection Time: 17:11  
 Analysis Batch No.: 44193

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.3	
75	30.0 - 66.0% of mass 95	46.9	
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	0.5	(0.5) 1
174	50.0 - 120.0% of mass 95	110.6	
175	4.0 - 9.0 % of mass 174	7.6	(6.9) 1
176	93.0 - 101.0% of mass 174	107.0	(96.7) 1
177	5.0 - 9.0% of mass 176	7.2	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44193/2	ggrj002.d	08/28/2012	18:05
	LCS 200-44193/3	ggrj003.d	08/28/2012	18:58
	MB 200-44193/4	ggrj004.d	08/28/2012	19:51
SSV-01	200-12398-1	ggrj005.d	08/28/2012	20:44
SSV-04	200-12398-4	ggrj006.d	08/28/2012	21:37
SSV-04 DL	200-12398-4 DL	ggrj007.d	08/28/2012	22:30
SSV-05	200-12398-5	ggrj008.d	08/28/2012	23:22
SSV-05 DL	200-12398-5 DL	ggrj009.d	08/29/2012	00:15
SSV-08	200-12398-9	ggrj010.d	08/29/2012	01:08
SSV-09	200-12398-10	ggrj012.d	08/29/2012	02:54
SSV-09 DL	200-12398-10 DL	ggrj013.d	08/29/2012	03:47
SSV-11	200-12398-12	ggrj014.d	08/29/2012	04:39
SSV-11 DL	200-12398-12 DL	ggrj015.d	08/29/2012	05:32
SSV-10	200-12398-11	ggrj025.d	08/29/2012	14:21
SSV-10 DL	200-12398-11 DL	ggrj026.d	08/29/2012	15:14

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-43490/15 Date Analyzed: 08/15/2012 08:24  
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ckz015.d Heated Purge: (Y/N) N  
 Calibration ID: 17120

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	419299	12.10	2338098	13.92	2179074	19.45
UPPER LIMIT	587019	12.43	3273337	14.25	3050704	19.78
LOWER LIMIT	251579	11.77	1402859	13.59	1307444	19.12
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-43490/18	394482	12.10	2173520	13.93	1992042	19.45

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44312/2 Date Analyzed: 08/30/2012 09:21  
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ckz1002.d Heated Purge: (Y/N) N  
 Calibration ID: 17120

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	320458	12.07	1795096	13.90	1662495	19.43	
UPPER LIMIT	448641	12.40	2513134	14.23	2327493	19.76	
LOWER LIMIT	192275	11.74	1077058	13.57	997497	19.10	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44312/3	340335	12.07	1891740	13.90	1780021	19.43	
MB 200-44312/4	321076	12.07	1849902	13.90	1611594	19.43	
200-12398-9 DL	SSV-08 DL	266080	12.07	1520526	13.90	1315344	19.43

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-43550/7 Date Analyzed: 08/16/2012 00:28  
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ggr007.d Heated Purge: (Y/N) N  
 Calibration ID: 17165

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	614826	11.73	2523223	13.56	2233183	19.06
UPPER LIMIT	860756	12.06	3532512	13.89	3126456	19.39
LOWER LIMIT	368896	11.40	1513934	13.23	1339910	18.73
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-43550/12	658359	11.73	2835664	13.56	2451344	19.06

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

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FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44056/2 Date Analyzed: 08/27/2012 16:33  
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ggri002.d Heated Purge: (Y/N) N  
 Calibration ID: 17165

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	535391	11.72	1887898	13.54	1531329	19.04	
UPPER LIMIT	749547	12.05	2643057	13.87	2143861	19.37	
LOWER LIMIT	321235	11.39	1132739	13.21	918797	18.71	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44056/3	518272	11.72	2129584	13.54	1992190	19.04	
MB 200-44056/4	479096	11.72	2155974	13.54	1591143	19.04	
200-12398-2	SSV-02	522577	11.72	2102627	13.54	1805637	19.04
200-12398-3	SSV-02/FD	512715	11.71	2093379	13.54	1774787	19.04
200-12398-6	SSV-06	505020	11.72	1802111	13.54	1704285	19.04
200-12398-6 DL	SSV-06 DL	491253	11.71	2135125	13.54	1847921	19.03
200-12398-7	SSV-06/FD	489014	11.72	2121554	13.54	1849209	19.04
200-12398-7 DL	SSV-06/FD DL	480814	11.72	2100836	13.54	1777062	19.04
200-12398-8	SSV-07	484826	11.72	2039585	13.54	1797627	19.03

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44193/2 Date Analyzed: 08/28/2012 18:05  
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ggrj002.d Heated Purge: (Y/N) N  
 Calibration ID: 17165

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	544123	11.72	2135651	13.54	1955282	19.04
UPPER LIMIT	761772	12.05	2989911	13.87	2737395	19.37
LOWER LIMIT	326474	11.39	1281391	13.21	1173169	18.71
LAB SAMPLE ID	CLIENT SAMPLE ID					
LCS 200-44193/3	541960	11.72	2220311	13.54	2022435	19.04
MB 200-44193/4	476870	11.71	2179655	13.54	1605465	19.04
200-12398-1	SSV-01	538707	2219046	13.54	1847679	19.04
200-12398-4	SSV-04	518895	1822785	13.54	1523588	19.04
200-12398-4 DL	SSV-04 DL	479271	2106696	13.54	1768930	19.04
200-12398-5	SSV-05	479262	2109198	13.54	1771467	19.04
200-12398-5 DL	SSV-05 DL	462108	2093925	13.54	1643490	19.04
200-12398-9	SSV-08	475069	2069860	13.54	1636147	19.04
200-12398-10	SSV-09	486862	1780427	13.54	1467120	19.04
200-12398-10 DL	SSV-09 DL	481589	1912998	13.54	1532289	19.04
200-12398-12	SSV-11	437864	1744879	13.54	1554477	19.04
200-12398-12 DL	SSV-11 DL	475829	2009740	13.54	1603532	19.04
200-12398-11	SSV-10	453280	2019614	13.54	1513004	19.04
200-12398-11 DL	SSV-10 DL	438794	1944390	13.54	1478478	19.04

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-01 Lab Sample ID: 200-12398-1  
 Matrix: Air Lab File ID: ggrj005.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 13:55  
 Sample wt/vol: 170 (mL) Date Analyzed: 08/28/2012 20:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	1.1		0.40	0.40
127-18-4	Tetrachloroethene	165.83	0.40	U	0.40	0.40

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-01 Lab Sample ID: 200-12398-1  
 Matrix: Air Lab File ID: ggrj005.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 13:55  
 Sample wt/vol: 170 (mL) Date Analyzed: 08/28/2012 20:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	6.1		2.1	2.1
127-18-4	Tetrachloroethene	165.83	2.7	U	2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-02 Lab Sample ID: 200-12398-2  
 Matrix: Air Lab File ID: ggri012.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 13:21  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 01:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	1.3		0.40	0.40
127-18-4	Tetrachloroethene	165.83	0.49		0.40	0.40

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-02 Lab Sample ID: 200-12398-2  
 Matrix: Air Lab File ID: ggri012.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 13:21  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 01:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	7.2		2.1	2.1
127-18-4	Tetrachloroethene	165.83	3.3		2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-02/FD Lab Sample ID: 200-12398-3  
 Matrix: Air Lab File ID: ggri013.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 13:21  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 02:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	1.3		0.40	0.40
127-18-4	Tetrachloroethene	165.83	0.43		0.40	0.40

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-02/FD Lab Sample ID: 200-12398-3  
 Matrix: Air Lab File ID: ggri013.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 13:21  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 02:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	7.3		2.1	2.1
127-18-4	Tetrachloroethene	165.83	2.9		2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-04 Lab Sample ID: 200-12398-4  
 Matrix: Air Lab File ID: ggrj006.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 10:30  
 Sample wt/vol: 97 (mL) Date Analyzed: 08/28/2012 21:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10.1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	2.0	U	2.0	2.0
75-35-4	1,1-Dichloroethene	96.94	2.0	U	2.0	2.0
156-60-5	trans-1,2-Dichloroethene	96.94	2.0	U	2.0	2.0
156-59-2	cis-1,2-Dichloroethene	96.94	2.0	U	2.0	2.0
540-59-0	1,2-Dichloroethene, Total	96.94	2.0	U	2.0	2.0
79-01-6	Trichloroethene	131.39	65		2.0	2.0
127-18-4	Tetrachloroethene	165.83	1600	E	2.0	2.0

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-04 Lab Sample ID: 200-12398-4  
 Matrix: Air Lab File ID: ggrj006.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 10:30  
 Sample wt/vol: 97 (mL) Date Analyzed: 08/28/2012 21:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10.1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	5.2	U	5.2	5.2
75-35-4	1,1-Dichloroethene	96.94	8.0	U	8.0	8.0
156-60-5	trans-1,2-Dichloroethene	96.94	8.0	U	8.0	8.0
156-59-2	cis-1,2-Dichloroethene	96.94	8.0	U	8.0	8.0
540-59-0	1,2-Dichloroethene, Total	96.94	8.0	U	8.0	8.0
79-01-6	Trichloroethene	131.39	350		11	11
127-18-4	Tetrachloroethene	165.83	11000	E	14	14

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-04 DL Lab Sample ID: 200-12398-4 DL  
 Matrix: Air Lab File ID: ggrj007.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 10:30  
 Sample wt/vol: 20 (mL) Date Analyzed: 08/28/2012 22:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 48.8  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	9.8	U	9.8	9.8
75-35-4	<i>1,1-Dichloroethene</i>	96.94	9.8	U	9.8	9.8
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	9.8	U	9.8	9.8
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	9.8	U	9.8	9.8
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	9.8	U	9.8	9.8
79-01-6	<i>Trichloroethene</i>	131.39	63	D	9.8	9.8
127-18-4	<i>Tetrachloroethene</i>	165.83	1400	D	9.8	9.8

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-04 DL Lab Sample ID: 200-12398-4 DL  
 Matrix: Air Lab File ID: ggrj007.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 10:30  
 Sample wt/vol: 20 (mL) Date Analyzed: 08/28/2012 22:30  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 48.8  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	25	U	25	25
75-35-4	<i>1,1-Dichloroethene</i>	96.94	39	U	39	39
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	39	U	39	39
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	39	U	39	39
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	39	U	39	39
79-01-6	<i>Trichloroethene</i>	131.39	340	D	52	52
127-18-4	<i>Tetrachloroethene</i>	165.83	9700	D	66	66

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-05 Lab Sample ID: 200-12398-5  
 Matrix: Air Lab File ID: ggrj008.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:03  
 Sample wt/vol: 114 (mL) Date Analyzed: 08/28/2012 23:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 28  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	5.6	U	5.6	5.6
75-35-4	1,1-Dichloroethene	96.94	5.6	U	5.6	5.6
156-60-5	trans-1,2-Dichloroethene	96.94	5.6	U	5.6	5.6
156-59-2	cis-1,2-Dichloroethene	96.94	5.6	U	5.6	5.6
540-59-0	1,2-Dichloroethene, Total	96.94	5.6	U	5.6	5.6
79-01-6	Trichloroethene	131.39	100		5.6	5.6
127-18-4	Tetrachloroethene	165.83	3600	E	5.6	5.6

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-05 Lab Sample ID: 200-12398-5  
 Matrix: Air Lab File ID: ggrj008.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:03  
 Sample wt/vol: 114 (mL) Date Analyzed: 08/28/2012 23:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 28  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	14	U	14	14
75-35-4	1,1-Dichloroethene	96.94	22	U	22	22
156-60-5	trans-1,2-Dichloroethene	96.94	22	U	22	22
156-59-2	cis-1,2-Dichloroethene	96.94	22	U	22	22
540-59-0	1,2-Dichloroethene, Total	96.94	22	U	22	22
79-01-6	Trichloroethene	131.39	550		30	30
127-18-4	Tetrachloroethene	165.83	25000	E	38	38

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-05 DL Lab Sample ID: 200-12398-5 DL  
 Matrix: Air Lab File ID: ggrj009.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:03  
 Sample wt/vol: 23 (mL) Date Analyzed: 08/29/2012 00:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 139  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	28	U	28	28
75-35-4	<i>1,1-Dichloroethene</i>	96.94	28	U	28	28
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	28	U	28	28
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	28	U	28	28
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	28	U	28	28
79-01-6	<i>Trichloroethene</i>	131.39	97	D	28	28
127-18-4	<i>Tetrachloroethene</i>	165.83	3300	D	28	28

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-05 DL Lab Sample ID: 200-12398-5 DL  
 Matrix: Air Lab File ID: ggrj009.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:03  
 Sample wt/vol: 23 (mL) Date Analyzed: 08/29/2012 00:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 139  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	71	U	71	71
75-35-4	<i>1,1-Dichloroethene</i>	96.94	110	U	110	110
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	110	U	110	110
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	110	U	110	110
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	110	U	110	110
79-01-6	<i>Trichloroethene</i>	131.39	520	D	150	150
127-18-4	<i>Tetrachloroethene</i>	165.83	22000	D	190	190

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06 Lab Sample ID: 200-12398-6  
 Matrix: Air Lab File ID: ggri014.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 03:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	1.1		0.40	0.40
127-18-4	Tetrachloroethene	165.83	210	E	0.40	0.40

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06 Lab Sample ID: 200-12398-6  
 Matrix: Air Lab File ID: ggri014.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 03:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	6.0		2.1	2.1
127-18-4	Tetrachloroethene	165.83	1400	E	2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06 DL Lab Sample ID: 200-12398-6 DL  
 Matrix: Air Lab File ID: ggri015.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2012 04:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 8  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	1.6	U	1.6	1.6
75-35-4	<i>1,1-Dichloroethene</i>	96.94	1.6	U	1.6	1.6
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	1.6	U	1.6	1.6
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	1.6	U	1.6	1.6
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	1.6	U	1.6	1.6
79-01-6	<i>Trichloroethene</i>	131.39	1.6	U	1.6	1.6
127-18-4	<i>Tetrachloroethene</i>	165.83	170	D	1.6	1.6

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06 DL Lab Sample ID: 200-12398-6 DL  
 Matrix: Air Lab File ID: ggri015.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 25 (mL) Date Analyzed: 08/28/2012 04:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 8  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	4.1	U	4.1	4.1
75-35-4	<i>1,1-Dichloroethene</i>	96.94	6.3	U	6.3	6.3
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	6.3	U	6.3	6.3
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	6.3	U	6.3	6.3
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	6.3	U	6.3	6.3
79-01-6	<i>Trichloroethene</i>	131.39	8.6	U	8.6	8.6
127-18-4	<i>Tetrachloroethene</i>	165.83	1200	D	11	11

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06/FD Lab Sample ID: 200-12398-7  
 Matrix: Air Lab File ID: ggri016.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 04:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	1.3		0.40	0.40
127-18-4	Tetrachloroethene	165.83	270	E	0.40	0.40

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06/FD Lab Sample ID: 200-12398-7  
 Matrix: Air Lab File ID: ggri016.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 04:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	6.9		2.1	2.1
127-18-4	Tetrachloroethene	165.83	1800	E	2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06/FD DL Lab Sample ID: 200-12398-7 DL  
 Matrix: Air Lab File ID: ggri017.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 20 (mL) Date Analyzed: 08/28/2012 05:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	2.0	U	2.0	2.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	2.0	U	2.0	2.0
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	2.0	U	2.0	2.0
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	2.0	U	2.0	2.0
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	2.0	U	2.0	2.0
79-01-6	<i>Trichloroethene</i>	131.39	2.0	U	2.0	2.0
127-18-4	<i>Tetrachloroethene</i>	165.83	210	D	2.0	2.0

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-06/FD DL Lab Sample ID: 200-12398-7 DL  
 Matrix: Air Lab File ID: ggri017.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 11:51  
 Sample wt/vol: 20 (mL) Date Analyzed: 08/28/2012 05:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	5.1	U	5.1	5.1
75-35-4	<i>1,1-Dichloroethene</i>	96.94	7.9	U	7.9	7.9
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	7.9	U	7.9	7.9
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	7.9	U	7.9	7.9
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	7.9	U	7.9	7.9
79-01-6	<i>Trichloroethene</i>	131.39	11	U	11	11
127-18-4	<i>Tetrachloroethene</i>	165.83	1400	D	14	14

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-07 Lab Sample ID: 200-12398-8  
 Matrix: Air Lab File ID: ggri018.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 12:21  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 06:39  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	0.40	U	0.40	0.40
127-18-4	Tetrachloroethene	165.83	40		0.40	0.40

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-07 Lab Sample ID: 200-12398-8  
 Matrix: Air Lab File ID: ggri018.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 12:21  
 Sample wt/vol: 100(mL) Date Analyzed: 08/28/2012 06:39  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	2.1	U	2.1	2.1
127-18-4	Tetrachloroethene	165.83	270		2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-08 Lab Sample ID: 200-12398-9  
 Matrix: Air Lab File ID: ggrj010.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:05  
 Sample wt/vol: 177(mL) Date Analyzed: 08/29/2012 01:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 47.9  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	9.6	U	9.6	9.6
75-35-4	1,1-Dichloroethene	96.94	9.6	U	9.6	9.6
156-60-5	trans-1,2-Dichloroethene	96.94	17		9.6	9.6
156-59-2	cis-1,2-Dichloroethene	96.94	1900		9.6	9.6
540-59-0	1,2-Dichloroethene, Total	96.94	1900		9.6	9.6
79-01-6	Trichloroethene	131.39	8900	E	9.6	9.6
127-18-4	Tetrachloroethene	165.83	310		9.6	9.6

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-08 Lab Sample ID: 200-12398-9  
 Matrix: Air Lab File ID: ggrj010.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:05  
 Sample wt/vol: 177(mL) Date Analyzed: 08/29/2012 01:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 47.9  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	24	U	24	24
75-35-4	1,1-Dichloroethene	96.94	38	U	38	38
156-60-5	trans-1,2-Dichloroethene	96.94	67		38	38
156-59-2	cis-1,2-Dichloroethene	96.94	7400		38	38
540-59-0	1,2-Dichloroethene, Total	96.94	7500		38	38
79-01-6	Trichloroethene	131.39	48000	E	51	51
127-18-4	Tetrachloroethene	165.83	2100		65	65

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-08 DL Lab Sample ID: 200-12398-9 DL  
 Matrix: Air Lab File ID: ckz1008.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:05  
 Sample wt/vol: 28 (mL) Date Analyzed: 08/30/2012 14:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 303  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	61	U	61	61
75-35-4	<i>1,1-Dichloroethene</i>	96.94	61	U	61	61
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	61	U	61	61
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	1600	D	61	61
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	1600	D	61	61
79-01-6	<i>Trichloroethene</i>	131.39	8300	D	61	61
127-18-4	<i>Tetrachloroethene</i>	165.83	260	D	61	61

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-08 DL Lab Sample ID: 200-12398-9 DL  
 Matrix: Air Lab File ID: ckz1008.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:05  
 Sample wt/vol: 28 (mL) Date Analyzed: 08/30/2012 14:41  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 303  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	150	U	150	150
75-35-4	<i>1,1-Dichloroethene</i>	96.94	240	U	240	240
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	240	U	240	240
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	6500	D	240	240
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	6500	D	240	240
79-01-6	<i>Trichloroethene</i>	131.39	44000	D	330	330
127-18-4	<i>Tetrachloroethene</i>	165.83	1800	D	410	410

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-09 Lab Sample ID: 200-12398-10  
 Matrix: Air Lab File ID: ggrj012.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:36  
 Sample wt/vol: 200(mL) Date Analyzed: 08/29/2012 02:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4.74  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.95	U	0.95	0.95
75-35-4	1,1-Dichloroethene	96.94	0.95	U	0.95	0.95
156-60-5	trans-1,2-Dichloroethene	96.94	0.95	U	0.95	0.95
156-59-2	cis-1,2-Dichloroethene	96.94	79		0.95	0.95
540-59-0	1,2-Dichloroethene, Total	96.94	79		0.95	0.95
79-01-6	Trichloroethene	131.39	560	E	0.95	0.95
127-18-4	Tetrachloroethene	165.83	43		0.95	0.95

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-09 Lab Sample ID: 200-12398-10  
 Matrix: Air Lab File ID: ggrj012.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:36  
 Sample wt/vol: 200(mL) Date Analyzed: 08/29/2012 02:54  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4.74  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	2.4	U	2.4	2.4
75-35-4	1,1-Dichloroethene	96.94	3.8	U	3.8	3.8
156-60-5	trans-1,2-Dichloroethene	96.94	3.8	U	3.8	3.8
156-59-2	cis-1,2-Dichloroethene	96.94	310		3.8	3.8
540-59-0	1,2-Dichloroethene, Total	96.94	310		3.8	3.8
79-01-6	Trichloroethene	131.39	3000	E	5.1	5.1
127-18-4	Tetrachloroethene	165.83	290		6.4	6.4

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-09 DL Lab Sample ID: 200-12398-10 DL  
 Matrix: Air Lab File ID: ggrj013.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:36  
 Sample wt/vol: 41 (mL) Date Analyzed: 08/29/2012 03:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 23.1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	4.6	U	4.6	4.6
75-35-4	<i>1,1-Dichloroethene</i>	96.94	4.6	U	4.6	4.6
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	4.6	U	4.6	4.6
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	75	D	4.6	4.6
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	75	D	4.6	4.6
79-01-6	<i>Trichloroethene</i>	131.39	470	D	4.6	4.6
127-18-4	<i>Tetrachloroethene</i>	165.83	37	D	4.6	4.6

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-09 DL Lab Sample ID: 200-12398-10 DL  
 Matrix: Air Lab File ID: ggrj013.d  
 Analysis Method: TO-15 Date Collected: 08/21/2012 09:36  
 Sample wt/vol: 41(mL) Date Analyzed: 08/29/2012 03:47  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 23.1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	12	U	12	12
75-35-4	<i>1,1-Dichloroethene</i>	96.94	18	U	18	18
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	18	U	18	18
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	300	D	18	18
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	300	D	18	18
79-01-6	<i>Trichloroethene</i>	131.39	2500	D	25	25
127-18-4	<i>Tetrachloroethene</i>	165.83	250	D	31	31

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-10 Lab Sample ID: 200-12398-11  
 Matrix: Air Lab File ID: ggrj025.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 15:41  
 Sample wt/vol: 128(mL) Date Analyzed: 08/29/2012 14:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 260  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	52	U	52	52
75-35-4	1,1-Dichloroethene	96.94	52	U	52	52
156-60-5	trans-1,2-Dichloroethene	96.94	190		52	52
156-59-2	cis-1,2-Dichloroethene	96.94	3700		52	52
540-59-0	1,2-Dichloroethene, Total	96.94	3900		52	52
79-01-6	Trichloroethene	131.39	34000	E	52	52
127-18-4	Tetrachloroethene	165.83	52	U	52	52

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-10 Lab Sample ID: 200-12398-11  
 Matrix: Air Lab File ID: ggrj025.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 15:41  
 Sample wt/vol: 128(mL) Date Analyzed: 08/29/2012 14:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 260  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	130	U	130	130
75-35-4	1,1-Dichloroethene	96.94	210	U	210	210
156-60-5	trans-1,2-Dichloroethene	96.94	740		210	210
156-59-2	cis-1,2-Dichloroethene	96.94	15000		210	210
540-59-0	1,2-Dichloroethene, Total	96.94	15000		210	210
79-01-6	Trichloroethene	131.39	180000	E	280	280
127-18-4	Tetrachloroethene	165.83	350	U	350	350

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-10 DL Lab Sample ID: 200-12398-11 DL  
 Matrix: Air Lab File ID: ggrj026.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 15:41  
 Sample wt/vol: 25 (mL) Date Analyzed: 08/29/2012 15:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1330  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	270	U	270	270
75-35-4	<i>1,1-Dichloroethene</i>	96.94	270	U	270	270
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	270	U	270	270
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	4000	D	270	270
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	4200	D	270	270
79-01-6	<i>Trichloroethene</i>	131.39	36000	D	270	270
127-18-4	<i>Tetrachloroethene</i>	165.83	270	U	270	270

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-10 DL Lab Sample ID: 200-12398-11 DL  
 Matrix: Air Lab File ID: ggrj026.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 15:41  
 Sample wt/vol: 25 (mL) Date Analyzed: 08/29/2012 15:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1330  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	680	U	680	680
75-35-4	<i>1,1-Dichloroethene</i>	96.94	1100	U	1100	1100
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	1100	U	1100	1100
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	16000	D	1100	1100
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	17000	D	1100	1100
79-01-6	<i>Trichloroethene</i>	131.39	200000	D	1400	1400
127-18-4	<i>Tetrachloroethene</i>	165.83	1800	U	1800	1800

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-11 Lab Sample ID: 200-12398-12  
 Matrix: Air Lab File ID: ggrj014.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:33  
 Sample wt/vol: 200(mL) Date Analyzed: 08/29/2012 04:39  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4.68  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.94	U	0.94	0.94
75-35-4	1,1-Dichloroethene	96.94	0.94	U	0.94	0.94
156-60-5	trans-1,2-Dichloroethene	96.94	33		0.94	0.94
156-59-2	cis-1,2-Dichloroethene	96.94	130		0.94	0.94
540-59-0	1,2-Dichloroethene, Total	96.94	170		0.94	0.94
79-01-6	Trichloroethene	131.39	450	E	0.94	0.94
127-18-4	Tetrachloroethene	165.83	1.4		0.94	0.94

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-11 Lab Sample ID: 200-12398-12  
 Matrix: Air Lab File ID: ggrj014.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:33  
 Sample wt/vol: 200(mL) Date Analyzed: 08/29/2012 04:39  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4.68  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	2.4	U	2.4	2.4
75-35-4	1,1-Dichloroethene	96.94	3.7	U	3.7	3.7
156-60-5	trans-1,2-Dichloroethene	96.94	130		3.7	3.7
156-59-2	cis-1,2-Dichloroethene	96.94	530		3.7	3.7
540-59-0	1,2-Dichloroethene, Total	96.94	660		3.7	3.7
79-01-6	Trichloroethene	131.39	2400	E	5.0	5.0
127-18-4	Tetrachloroethene	165.83	9.4		6.3	6.3

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-11 DL Lab Sample ID: 200-12398-12 DL  
 Matrix: Air Lab File ID: ggrj015.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:33  
 Sample wt/vol: 49 (mL) Date Analyzed: 08/29/2012 05:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 19.1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	3.8	U	3.8	3.8
75-35-4	<i>1,1-Dichloroethene</i>	96.94	3.8	U	3.8	3.8
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	30	D	3.8	3.8
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	110	D	3.8	3.8
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	140	D	3.8	3.8
79-01-6	<i>Trichloroethene</i>	131.39	310	D	3.8	3.8
127-18-4	<i>Tetrachloroethene</i>	165.83	3.8	U	3.8	3.8

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-11 DL Lab Sample ID: 200-12398-12 DL  
 Matrix: Air Lab File ID: ggrj015.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:33  
 Sample wt/vol: 49 (mL) Date Analyzed: 08/29/2012 05:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 19.1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	9.8	U	9.8	9.8
75-35-4	<i>1,1-Dichloroethene</i>	96.94	15	U	15	15
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	120	D	15	15
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	440	D	15	15
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	560	D	15	15
79-01-6	<i>Trichloroethene</i>	131.39	1700	D	21	21
127-18-4	<i>Tetrachloroethene</i>	165.83	26	U	26	26

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FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-43490/3	ic 376683	ckz003.d
Level 2	IC 200-43490/4	ic 376683	ckz004.d
Level 3	IC 200-43490/5	ic 376702	ckz005.d
Level 4	IC 200-43490/6	ic 370619	ckz006.d
Level 5	ICIS 200-43490/15	icis 370604	ckz015.d
Level 6	IC 200-43490/8	ic 370603	ckz008.d
Level 7	IC 200-43490/9	ic 370601	ckz009.d
Level 8	IC 200-43490/10	ic 370600	ckz010.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	++++ 0.6295	++++ 0.5874	0.7402 0.5409	0.7173	0.6751	Ave	0.6484				11.8		30.0				
Dichlorodifluoromethane	++++ 2.6990	++++ 2.5969	3.0739 2.4542	2.9563	2.6940	Ave	2.7457				8.4		30.0				
Freon 22	++++ 1.3440	++++ 1.2570	1.6383 1.1785	1.5074	1.3768	Ave	1.3837				12.1		30.0				
1,2-Dichlorotetrafluoroethane	++++ 2.7953	3.0326 2.6891	2.8534 2.5507	2.9152	2.7473	Ave	2.7977				5.6		30.0				
Chloromethane	++++ 0.7464	++++ 0.7035	0.8814 0.6607	0.8254	0.7767	Ave	0.7657				10.5		30.0				
n-Butane	++++ 1.3441	++++ 1.2436	1.4925 1.1536	1.4833	1.4088	Ave	1.3543				10.0		30.0				
1,3-Butadiene	++++ 0.6853	0.7256 0.6504	0.7225 0.6123	0.7244	0.6932	Ave	0.6877				6.3		30.0				
Acrolein	++++ 0.2971	++++ 0.2805	++++ 0.2615	0.2879	0.2873	Ave	0.2829				4.7		30.0				
Vinyl chloride	1.0102 0.9389	1.0270 0.8943	0.9551 0.8450	0.9878	0.9461	Ave	0.9506				6.3		30.0				
Bromomethane	++++ 0.9116	0.9619 0.9068	0.9221 0.8611	0.9265	0.9057	Ave	0.9137				3.3		30.0				
Chloroethane	++++ 0.4839	++++ 0.4636	0.4834 0.4416	0.5044	0.4835	Ave	0.4767				4.5		30.0				
Isopentane	++++ 0.9958	1.1459 0.9497	1.1259 0.8853	1.1009	1.0165	Ave	1.0314				9.4		30.0				
Bromoethene (Vinyl Bromide)	++++ 0.9780	1.0397 0.9713	0.9656 0.9395	0.9718	0.9601	Ave	0.9751				3.2		30.0				
Trichlorofluoromethane	++++ 2.8528	3.1272 2.7322	3.1002 2.6033	3.0854	2.7689	Ave	2.8957				7.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
n-Pentane	++++ 1.5774	++++ 1.4922	1.6768 1.3928	1.6987	1.6075	Ave		1.5742			7.3		30.0				
Ethanol	++++ 0.2349	++++ 0.2316	0.2485 0.2026	0.2536	0.2352	Ave		0.2344			7.6		30.0				
Ethyl ether	++++ 0.6185	0.6091 0.5900	0.6031 0.5425	0.6261	0.6064	Ave		0.5994			4.6		30.0				
Freon TF	++++ 1.9955	2.1282 1.9539	2.1940 1.8839	2.0570	1.9605	Ave		2.0247			5.3		30.0				
tert-Butyl alcohol	++++ 1.1778	++++ 1.1068	++++ 1.0645	1.3202	1.2143	Ave		1.1767			8.4		30.0				
1,1-Dichloroethene	++++ 0.9453	1.0305 0.9249	0.9672 0.9063	0.9532	0.9286	Ave		0.9508			4.2		30.0				
Acetone	++++ 1.1122	++++ 1.0173	++++ 0.9194	1.2438	1.2129	Ave		1.1011			12.3		30.0				
Carbon disulfide	++++ 2.6871	++++ 2.6462	++++ 2.5684	2.7553	2.6692	Ave		2.6692			2.3		30.0				
Isopropyl alcohol	++++ 0.7860	++++ 0.7474	++++ 0.6592	0.8805	0.7949	Ave		0.7736			10.4		30.0				
3-Chloropropene	++++ 1.1328	1.2061 1.0721	1.1458 1.0169	1.1852	1.1160	Ave		1.1250			5.8		30.0				
Acetonitrile	++++ 0.4931	++++ 0.4128	++++ 0.4198	0.4870	0.4530	Ave		0.4531			8.2		30.0				
Methylene Chloride	++++ 0.9029	++++ 0.8597	1.1583 0.8039	0.9990	0.9121	Ave		0.9393			13.3		30.0				
Methyl tert-butyl ether	++++ 2.7062	2.7875 2.5808	2.7311 2.4088	2.7209	2.5927	Ave		2.6468			4.9		30.0				
trans-1,2-Dichloroethene	++++ 1.4050	1.4665 1.3364	1.4347 1.2690	1.5032	1.3799	Ave		1.3992			5.7		30.0				
Acrylonitrile	++++ 0.5646	++++ 0.5362	0.5065 0.5142	0.5690	0.5509	Ave		0.5402			4.8		30.0				
Ethyl acetate	++++ 0.0857	++++ 0.0841	++++ 0.0804	0.0829	0.0808	Ave		0.0828			2.7		30.0				
n-Hexane	++++ 1.5099	1.6008 1.4542	1.5311 1.3839	1.5967	1.5169	Ave		1.5134			5.1		30.0				
1,1-Dichloroethane	++++ 1.7734	1.9531 1.7040	1.8624 1.6262	1.9013	1.7708	Ave		1.7987			6.4		30.0				
Vinyl acetate	++++ 1.9832	++++ 1.8707	++++ 1.7205	1.9754	1.9144	Ave		1.8928			5.6		30.0				
cis-1,2-Dichloroethene	++++ 1.0870	++++ 1.0750	1.1730 1.0427	1.1081	1.0766	Ave		1.1192			7.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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														
Methyl Ethyl Ketone	++++ 0.4322	++++ 0.4192	0.4298 0.3859	0.4274	0.4157	Ave		0.4184			4.1		30.0				
Tetrahydrofuran	++++ 0.1606	++++ 0.1518	++++ 0.1529	0.1659	0.1549	Ave		0.1572			3.8		30.0				
Chloroform	++++ 2.2140	2.3865 2.1319	2.3238 2.0362	2.3519	2.1930	Ave		2.2339			5.7		30.0				
1,1,1-Trichloroethane	++++ 0.4499	0.4704 0.4352	0.4665 0.4611	0.4759	0.4363	Ave		0.4565			3.6		30.0				
Cyclohexane	++++ 0.2802	0.2903 0.2756	0.2698 0.2948	0.2807	0.2720	Ave		0.2805			3.3		30.0				
Benzene	++++ 0.5802	0.6433 0.5730	0.5902 0.6008	0.5895	0.5688	Ave		0.5923			4.2		30.0				
2,2,4-Trimethylpentane	++++ 0.8737	0.9119 0.8496	0.8673 0.8870	0.9116	0.8732	Ave		0.8821			2.6		30.0				
1,2-Dichloroethane	++++ 0.2617	0.2786 0.2500	0.2746 0.2581	0.2845	0.2573	Ave		0.2664			4.8		30.0				
n-Heptane	++++ 0.3082	0.3322 0.2952	0.3226 0.3039	0.3325	0.3119	Ave		0.3152			4.5		30.0				
n-Butanol	++++ 0.0546	++++ 0.0544	++++ 0.0619	0.0604	0.0580	Ave		0.0579			5.8		30.0				
Carbon tetrachloride	0.5151 0.4828	0.4602 0.4675	0.4634 0.5042	0.5007	0.4614	Ave		0.4819			4.6		30.0				
1,2-Dichloropropane	++++ 0.1966	0.2083 0.1933	0.1892 0.1958	0.2037	0.1917	Ave		0.1969			3.4		30.0				
Methyl methacrylate	++++ 0.1803	++++ 0.1783	0.1331 0.1864	0.1644	0.1664	Ave		0.1681			11.4		30.0				
1,4-Dioxane	++++ 0.0712	++++ 0.0699	++++ 0.0667	0.0745	0.0684	Ave		0.0702			4.3		30.0				
Dibromomethane	++++ 0.2615	0.2443 0.2624	0.2296 0.2869	0.2527	0.2476	Ave		0.2550			7.0		30.0				
Bromodichloromethane	++++ 0.4495	0.4062 0.4369	0.4072 0.4516	0.4639	0.4358	Ave		0.4359			5.1		30.0				
cis-1,3-Dichloropropene	++++ 0.3324	0.3100 0.3254	0.3061 0.3372	0.3336	0.3202	Ave		0.3236			3.7		30.0				
Methyl isobutyl ketone	++++ 0.2985	++++ 0.2797	++++ 0.2847	0.2594	0.2942	Ave		0.2796			5.9		30.0				
Trichloroethene	0.2875 0.2737	0.2880 0.2723	0.2663 0.2930	0.2792	0.2700	Ave		0.2787			3.5		30.0				
Toluene	++++ 0.4835	0.4815 0.4825	0.4540 0.4965	0.4943	0.4634	Ave		0.4794			3.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	++++ 0.4230	0.4381 0.4028	0.4328 0.4014	0.4562	0.4227	Ave		0.4253			4.6		30.0				
trans-1,3-Dichloropropene	++++ 0.3369	0.3008 0.3272	0.2874 0.3415	0.3314	0.3197	Ave		0.3207			6.2		30.0				
1,1,2-Trichloroethane	++++ 0.2181	0.2203 0.2156	0.2095 0.2188	0.2245	0.2072	Ave		0.2163			2.8		30.0				
Tetrachloroethene	++++ 0.4576	0.4531 0.4611	0.4152 0.4946	0.4561	0.4262	Ave		0.4520			5.7		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2980	++++ 0.2840	0.2417 0.2949	0.2986	0.2583	Ave		0.2793			8.5		30.0				
Dibromochloromethane	++++ 0.5178	0.3838 0.5183	0.3915 0.5408	0.5062	0.4712	Ave		0.4757			13.4		30.0				
1,2-Dibromoethane	++++ 0.4414	0.3774 0.4387	0.3681 0.4527	0.4415	0.4088	Ave		0.4184			8.1		30.0				
Chlorobenzene	++++ 0.7086	0.6912 0.7037	0.6536 0.7341	0.7082	0.6592	Ave		0.6941			4.1		30.0				
Ethylbenzene	++++ 1.0414	0.9953 1.0249	0.9260 1.0839	1.0198	0.9674	Ave		1.0084			5.1		30.0				
n-Nonane	++++ 0.4527	0.4381 0.4333	0.4084 0.4449	0.4659	0.4292	Ave		0.4389			4.2		30.0				
m,p-Xylene	++++ 0.4453	0.3947 0.4335	0.3717 0.4599	0.4270	0.4087	Ave		0.4201			7.2		30.0				
Xylene, o-	++++ 0.4315	0.3697 0.4221	0.3672 0.4420	0.4158	0.3987	Ave		0.4067			7.2		30.0				
Styrene	++++ 0.6545	0.4186 0.6503	0.4137 0.7079	0.5892	0.5921	Ave		0.5752			20.2		30.0				
Bromoform	++++ 0.5234	0.3362 0.5184	0.3369 0.5577	0.4886	0.4670	Ave		0.4612			19.5		30.0				
Cumene	++++ 1.2449	1.0564 1.2187	1.0303 1.3045	1.1942	1.1407	Ave		1.1699			8.5		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.5594	0.4939 0.5417	0.4842 0.5651	0.5497	0.5110	Ave		0.5293			6.2		30.0				
1,2,3-Trichloropropane	++++ 0.4464	++++ 0.4251	0.3994 0.4337	0.4504	0.4130	Ave		0.4280			4.6		30.0				
n-Propylbenzene	++++ 1.4270	1.0943 1.3800	1.1149 1.4648	1.3660	1.3033	Ave		1.3072			11.3		30.0				
4-Ethyltoluene	++++ 1.2731	0.8881 1.2219	0.9346 1.2697	1.1957	1.1452	Ave		1.1326			13.9		30.0				
n-Decane	++++ 0.5415	++++ 0.4921	0.4309 0.4565	0.5550	0.5122	Ave		0.4980			9.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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														
2-Chlorotoluene	++++ 1.0237	0.9527 0.9776	0.8777 0.9916	1.0255	0.9416	Ave		0.9700			5.3		30.0				
1,3,5-Trimethylbenzene	++++ 1.0725	0.8271 1.0376	0.8267 1.1237	1.0221	0.9668	Ave		0.9824			11.8		30.0				
Alpha Methyl Styrene	++++ 0.5424	0.2741 0.5371	0.2919 0.5934	0.4862	0.4835	Ave		0.4584			27.4		30.0				
tert-Butylbenzene	++++ 1.0660	0.8471 1.0342	0.8697 1.1094	1.0242	0.9632	Ave		0.9877			10.0		30.0				
1,2,4-Trimethylbenzene	++++ 1.0623	0.7512 1.0193	0.7523 1.1125	1.0052	0.9499	Ave		0.9504			15.2		30.0				
sec-Butylbenzene	++++ 1.5249	1.1189 1.4757	1.1564 1.5976	1.4642	1.3776	Ave		1.3879			13.2		30.0				
4-Isopropyltoluene	++++ 1.3417	0.8530 1.2959	0.9130 1.4136	1.2477	1.1837	Ave		1.1784			18.2		30.0				
1,3-Dichlorobenzene	++++ 0.7348	0.5588 0.7132	0.5407 0.8024	0.6860	0.6499	Ave		0.6694			14.1		30.0				
1,4-Dichlorobenzene	++++ 0.7123	0.5378 0.6954	0.5185 0.7879	0.6573	0.6287	Ave		0.6483			14.8		30.0				
Benzyl chloride	++++ 0.8213	0.5097 0.7993	0.4763 0.9010	0.7128	0.7009	Ave		0.7030			22.6		30.0				
n-Butylbenzene	++++ 1.0531	0.5909 0.9990	0.6111 1.0906	0.9419	0.9124	Ave		0.8856			23.0		30.0				
n-Undecane	++++ 0.5151	++++ 0.4433	++++ 0.5222	0.4232	0.4044	Ave		0.4617			11.7		30.0				
1,2-Dichlorobenzene	++++ 0.6881	0.5127 0.6634	0.5013 0.7433	0.6447	0.6044	Ave		0.6226			14.4		30.0				
n-Dodecane	++++ 0.2706	++++ 0.2045	++++ 0.3015	0.2987	0.2448	Ave		0.2640			15.3		30.0				
1,2,4-Trichlorobenzene	++++ 0.2947	++++ 0.2692	0.2232 0.3580	0.2901	0.2335	Ave		0.2781			17.5		30.0				
Hexachlorobutadiene	++++ 0.4011	0.2962 0.3751	0.2901 0.4087	0.3822	0.3391	Ave		0.3561			13.6		30.0				
Naphthalene	++++ 0.5959	++++ 0.5080	0.4051 0.7434	0.5750	0.4881	Ave		0.5526			20.9		30.0				
1,2,3-Trichlorobenzene	++++ 0.2299	0.1800 0.2069	0.1848 0.2710	0.2348	0.1940	Ave		0.2145			15.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43490/3	ckz003.d
Level 2	IC 200-43490/4	ckz004.d
Level 3	IC 200-43490/5	ckz005.d
Level 4	IC 200-43490/6	ckz006.d
Level 5	ICIS 200-43490/15	ckz015.d
Level 6	IC 200-43490/8	ckz008.d
Level 7	IC 200-43490/9	ckz009.d
Level 8	IC 200-43490/10	ckz010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Propylene	BCM	Ave	++++ 393566	++++ 536817	13040 1063874	127364	283059	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	++++ 1687394	++++ 2373061	54156 4827325	524916	1129574	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	++++ 840224	++++ 1148663	28864 2318035	267662	577311	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1747564	22087 2457381	50270 5017164	517629	1151940	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	++++ 466665	++++ 642841	15529 1299651	146550	325650	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	++++ 840295	++++ 1136393	26294 2269233	263379	590701	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	++++ 428417	5285 594316	12729 1204410	128623	290672	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	++++ 185751	++++ 256344	++++ 514321	51122	120447	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1524 586988	7480 817235	16827 1662035	175401	396687	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	++++ 569942	7006 828656	16245 1693799	164502	379780	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	++++ 302553	++++ 423646	8516 868559	89570	202738	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	++++ 622540	8346 867881	19836 1741356	195472	426219	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 611435	7572 887634	17011 1848007	172557	402574	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	++++ 1783517	22776 2496706	54619 5120772	547854	1161002	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	++++ 986163	++++ 1363630	29541 2739630	301630	674005	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	
Ethanol	BCM	Ave	++++ 195794	++++ 423287	43784 996073	90045	147960	++++ 20.0	++++ 40.0	5.00 100	10.0	15.0	
Ethyl ether	BCM	Ave	++++ 386647	++++ 539131	10625 1067046	111163	254247	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Freon TF	BCM	Ave	++++ 1247555	++++ 1785541	38654 3705569	365245	822029	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
tert-Butyl alcohol	BCM	Ave	++++ 736341	++++ 1011441	++++ 2093862	234420	509154	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
1,1-Dichloroethene	BCM	Ave	++++ 590970	++++ 845197	7505 17040 1782667	169248	389344	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acetone	BCM	Ave	++++ 695313	++++ 929650	++++ 1808368	220856	508549	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
Carbon disulfide	BCM	Ave	++++ 1679909	++++ 2418141	47375 5052073	489232	1119189	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Isopropyl alcohol	BCM	Ave	++++ 491424	++++ 682994	++++ 1296594	156350	333318	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
3-Chloropropene	BCM	Ave	++++ 708216	++++ 979703	8784 20186 2000333	210440	467926	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acetonitrile	BCM	Ave	++++ 308270	++++ 377267	++++ 825669	86464	189950	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
Methylene Chloride	BCM	Ave	++++ 564476	++++ 785574	20407 1581183	177376	382450	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Methyl tert-butyl ether	BCM	Ave	++++ 1691850	++++ 2358384	20302 4738158	483116	1087102	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
trans-1,2-Dichloroethene	BCM	Ave	++++ 878373	++++ 1221256	10681 25276 2496079	266907	578583	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acrylonitrile	BCM	Ave	++++ 352996	++++ 489994	++++ 1011403	8923	101040	230986	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	++++ 53550	++++ 76824	++++ 158228	14712	33878	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
n-Hexane	BCM	Ave	++++ 943974	++++ 1328827	11659 2722223	283502	636047	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
1,1-Dichloroethane	BCM	Ave	++++ 1108709	++++ 1557111	14225 32811 3198805	337595	742485	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Vinyl acetate	BCM	Ave	++++ 1239854	++++ 1709438	++++ 3384215	350751	802692	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
cis-1,2-Dichloroethene	BCM	Ave	++++ 679576	++++ 982350	9262 20666 2051085	196752	451438	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Methyl Ethyl Ketone	BCM	Ave	++++ 270226	++++ 383108	++++ 7573 758972	75894	174301	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Tetrahydrofuran	DFB	Ave	++++ 555906	++++ 761622	++++ 1491236	165101	362068	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	++++ 1384145	17381 1948138	40941 4005308	417596	919514	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	++++ 1556934	19132 2183499	46194 4498299	473681	1020074	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	++++ 969727	11808 1382842	26715 2875788	279394	636062	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	++++ 2008021	26166 2874734	58442 5861699	586751	1329811	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	++++ 3023710	37093 4262374	85877 8653827	907351	2041604	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	++++ 905678	11331 1254053	27191 2518111	283185	601581	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	++++ 1066712	13511 1481103	31946 2965258	331000	729294	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	++++ 189079	++++ 272944	++++ 604323	60155	135583	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	4394 1670958	18719 2345482	45880 4919166	498385	1078834	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	++++ 680514	8471 969733	18732 1910510	202786	448163	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	++++ 623788	++++ 894560	13183 1818413	163651	388995	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	++++ 246521	++++ 350811	++++ 650303	74196	159944	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	++++ 905001	9939 1316604	22730 2799296	251523	578927	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	++++ 1555426	16523 2191881	40315 4405637	461707	1018972	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	++++ 1150398	12608 1632459	30308 3289522	332086	748632	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl isobutyl ketone	DFB	Ave	++++ 1032913	++++ 1403370	25685 2777113	292876	610844	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2452 947186	11714 1365930	26365 2858818	277869	631256	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	++++ 1532941	17855 2202530	41556 4448120	439755	1009776	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	++++ 1463679	17820 2020913	42856 3915874	454106	988252	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	++++ 1166001	12235 1641621	28452 3332037	329846	747465	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 691388	8167 983941	19172 1959711	199746	451489	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	CBZ	Ave	++++ 1450848	16802 2104727	38008 4431081	405766	928617	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 944792	++++ 1296084	++++ 22126 2641748	265661	562900	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	++++ 1641809	14230 2365702	35839 4844163	450291	1026857	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	++++ 1399518	13995 2002421	33697 4055501	392787	890755	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	++++ 2246719	25629 3211968	59828 6576503	630032	1436363	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	++++ 3302057	36906 4678329	84758 9709309	907186	2107945	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	++++ 1435289	16244 1978008	37379 3985736	414432	935342	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	++++ 2823904	29267 3957139	68046 8239271	759733	1781171	++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	++++ 1368167	13709 1926863	33614 3959827	369852	868813	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	++++ 2075226	15521 2968156	37864 6341806	524148	1290186	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	++++ 1659606	12464 2366238	30836 4995494	434651	1017655	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	++++ 3947303	39171 5562721	94306 11685494	1062326	2485603	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1773677	18312 2472348	44322 5061975	488992	1113422	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	++++ 1415521	++++ 1940206	36558 3884902	400659	899864	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	++++ 4524580	40576 6298984	102048 13121769	1215235	2840068	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	++++ 4036789	32929 5577490	85543 11374226	1063720	2495383	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	++++ 1716815	++++ 2246198	39442 4089282	493744	1116216	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	++++ 3245736	35324 4462218	80335 8882480	912240	2051831	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3400461	30668 4736016	75673 10066067	909268	2106707	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	++++ 1719742	10162 2451434	26719 5316033	432507	1053537	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	++++ 3380018	31409 4720355	79610 9938298	911084	2098797	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	CBZ	Ave	++++ 3368303	27852 4652357	68858 9966136	894230	2069833	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	++++ 4835073	41489 6735894	105849 14311357	1302558	3001987	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	++++ 4254247	31629 5915135	83572 12663046	1109988	2579274	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	++++ 2329856	20720 3255522	49495 7188170	610301	1416167	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	++++ 2258369	19940 3174265	47456 7057943	584758	1369962	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	++++ 2604019	18898 3648254	43600 8071371	634101	1527206	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	++++ 3339168	21909 4559870	55935 9769839	837955	1988185	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	++++ 1633244	++++ 2023452	++++ 4678209	376487	881223	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	++++ 2181647	19010 3027941	45888 6658200	573557	1317115	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	++++ 857889	++++ 933475	++++ 2701195	265689	533363	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 934260	++++ 1228920	20429 3207300	258080	508705	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	++++ 1271862	10984 1712222	26553 3660873	339968	738987	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	++++ 1889409	++++ 2318811	37078 6659792	511479	1063574	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 729064	++++ 6673 944178	16918 2427773	208922	422731	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:

Ave = Average ISTD

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43550/3	ggr003.d
Level 2	IC 200-43550/4	ggr004.d
Level 3	IC 200-43550/5	ggr005.d
Level 4	IC 200-43550/6	ggr006.d
Level 5	ICIS 200-43550/7	ggr007.d
Level 6	IC 200-43550/8	ggr008.d
Level 7	IC 200-43550/9	ggr009.d
Level 8	IC 200-43550/10	ggr010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	++++ 0.4074	++++ 0.4473	0.4732 0.4016	0.4174	0.4137	Ave		0.4268			6.5		30.0				
Dichlorodifluoromethane	++++ 2.7266	++++ 2.9250	2.8855 2.5988	2.8059	2.8187	Ave		2.7934			4.2		30.0				
Freon 22	++++ 1.1592	++++ 1.2465	1.3194 1.1065	1.2245	1.1993	Ave		1.2093			6.1		30.0				
1,2-Dichlorotetrafluoroethane	++++ 2.5068	2.6499 2.7022	2.6070 2.4140	2.6464	2.5751	Ave		2.5859			3.8		30.0				
Chloromethane	++++ 0.5100	++++ 0.5498	0.5563 0.4937	0.5263	0.5149	Ave		0.5252			4.6		30.0				
n-Butane	++++ 0.8437	++++ 0.9154	0.8958 0.8311	0.8748	0.8616	Ave		0.8704			3.6		30.0				
1,3-Butadiene	++++ 0.4386	0.4728 0.4773	0.4494 0.4268	0.4586	0.4480	Ave		0.4531			4.0		30.0				
Vinyl chloride	1.0783 0.6732	0.7403 0.7324	0.7260 0.6547	0.7021	0.6881	Ave		0.7494			18.2		30.0				
Acrolein	++++ 0.2066	++++ 0.1954	++++ 0.1987	0.1971	0.1984	Ave		0.1992			2.2		30.0				
Bromomethane	++++ 0.9214	0.9655 0.9984	0.9801 0.8789	0.9331	0.9281	Ave		0.9436			4.3		30.0				
Chloroethane	++++ 0.3319	++++ 0.3611	0.3411 0.3247	0.3430	0.3425	Ave		0.3407			3.6		30.0				
Isopentane	++++ 0.6424	0.7323 0.6903	0.7033 0.6216	0.6683	0.6567	Ave		0.6736			5.6		30.0				
Bromoethene (Vinyl Bromide)	++++ 0.9233	0.9861 1.0013	0.9278 0.9151	0.9220	0.9368	Ave		0.9446			3.6		30.0				
Trichlorofluoromethane	++++ 2.7769	3.0250 2.9940	3.0531 2.6852	2.9598	2.8837	Ave		2.9111			4.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
n-Pentane	++++ 0.9271	++++ 1.0006	0.9394 0.9127	0.9537	0.9414	Ave		0.9458			3.2		30.0				
Ethanol	++++ 0.1450	++++ 0.1569	0.1462 0.1364	0.1516	0.1360	Ave		0.1454			5.7		30.0				
Ethyl ether	++++ 0.4227	0.3714 0.4080	0.4053 0.4154	0.4223	0.4177	Ave		0.4090			4.4		30.0				
Freon TF	++++ 1.8421	1.8511 2.0303	2.0329 1.8071	1.9201	1.8936	Ave		1.9110			4.7		30.0				
1,1-Dichloroethene	++++ 0.7837	0.9106 0.8561	0.7652 0.7729	0.8101	0.8011	Ave		0.8143			6.4		30.0				
Acetone	++++ 0.9111	++++ 0.8430	++++ 0.8608	0.9724	0.9167	Ave		0.9008			5.7		30.0				
Ethyl acetate	++++ 0.0478	++++ 0.0453	++++ 0.0495	0.0479	0.0465	Ave		0.0474			3.3		30.0				
Carbon disulfide	++++ 2.2400	++++ 2.4175	2.2366 2.1755	2.2871	2.2624	Ave		2.2699			3.6		30.0				
Isopropyl alcohol	++++ 0.6319	++++ 0.6253	++++ 0.5866	0.6465	0.6730	Ave		0.6326			5.0		30.0				
3-Chloropropene	++++ 0.7182	0.7971 0.7689	0.6646 0.7674	0.7664	0.7781	Ave		0.7515			6.0		30.0				
Acetonitrile	++++ 0.3393	++++ 0.3070	++++ 0.2507	0.3003	0.3248	Ave		0.3044			11.1		30.0				
Methylene Chloride	++++ 0.6955	++++ 0.7481	0.8031 0.6651	0.7368	0.7208	Ave		0.7282			6.5		30.0				
tert-Butyl alcohol	++++ 1.1759	++++ 1.1813	++++ 1.1488	1.2205	1.2723	Ave		1.1998			4.0		30.0				
Methyl tert-butyl ether	++++ 2.1979	2.2327 2.0842	2.1234 2.1517	2.2059	2.1852	Ave		2.1687			2.4		30.0				
trans-1,2-Dichloroethene	++++ 1.1067	1.1193 1.2048	1.1389 1.0769	1.1680	1.1390	Ave		1.1362			3.7		30.0				
Acrylonitrile	++++ 0.3685	++++ 0.3444	0.3409 0.3608	0.3587	0.3602	Ave		0.3556			3.0		30.0				
n-Hexane	++++ 0.9428	0.8977 1.0169	0.9129 0.9244	0.9528	0.9495	Ave		0.9424			4.1		30.0				
1,1-Dichloroethane	++++ 1.3651	1.4035 1.4616	1.4202 1.3263	1.4008	1.3894	Ave		1.3953			3.0		30.0				
Vinyl acetate	++++ 1.3438	++++ 1.2348	++++ 1.3601	1.2638	1.2721	Ave		1.2949			4.2		30.0				
cis-1,2-Dichloroethene	++++ 0.8724	++++ 1.0745	0.9257 0.8711	0.8987	0.8689	Ave		0.9221			7.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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														
Methyl Ethyl Ketone	++++ 0.2760	++++ 0.2625	0.2613 0.2831	0.2616	0.2713	Ave		0.2693			3.4		30.0				
Tetrahydrofuran	++++ 0.1296	++++ 0.1495	++++ 0.1277	0.1244	0.1309	Ave		0.1324			7.4		30.0				
Chloroform	++++ 1.9077	1.9781 1.9968	1.9345 1.8392	1.9838	1.9023	Ave		1.9346			2.9		30.0				
n-Butanol	++++ 0.0563	++++ 0.0748	++++ 0.0611	0.0534	0.0626	Ave		0.0616			13.3		30.0				
1,1,1-Trichloroethane	++++ 0.5474	0.5937 0.7185	0.5480 0.5280	0.5570	0.5670	Ave		0.5799			11.1		30.0				
Cyclohexane	++++ 0.2414	0.2458 0.3194	0.2306 0.2392	0.2358	0.2457	Ave		0.2511			12.2		30.0				
Benzene	++++ 0.5160	0.5489 0.6515	0.5191 0.5194	0.5242	0.5174	Ave		0.5424			9.1		30.0				
2,2,4-Trimethylpentane	++++ 0.7158	0.7314 0.9266	0.6806 0.7049	0.7137	0.7192	Ave		0.7417			11.2		30.0				
1,2-Dichloroethane	++++ 0.3001	0.3175 0.3730	0.2906 0.2916	0.3088	0.3022	Ave		0.3120			9.1		30.0				
n-Heptane	++++ 0.2370	0.2342 0.3010	0.2311 0.2341	0.2368	0.2390	Ave		0.2447			10.2		30.0				
Carbon tetrachloride	0.6954 0.6231	0.6515 0.8266	0.6078 0.6028	0.6421	0.6504	Ave		0.6625			10.9		30.0				
1,2-Dichloropropane	++++ 0.1665	0.1628 0.2024	0.1537 0.1651	0.1662	0.1672	Ave		0.1691			9.1		30.0				
Methyl methacrylate	++++ 0.1421	++++ 0.1667	0.0955 0.1495	0.1272	0.1431	Ave		0.1373			17.6		30.0				
1,4-Dioxane	++++ 0.0679	++++ 0.0816	++++ 0.0626	0.0735	0.0763	Ave		0.0724			10.2		30.0				
Dibromomethane	++++ 0.3236	0.3224 0.4115	0.2939 0.3235	0.3165	0.3154	Ave		0.3295			11.4		30.0				
Bromodichloromethane	++++ 0.4853	0.4402 0.6042	0.4329 0.4718	0.4848	0.4825	Ave		0.4860			11.6		30.0				
cis-1,3-Dichloropropene	++++ 0.2751	0.2755 0.3340	0.2363 0.2772	0.2657	0.2760	Ave		0.2771			10.5		30.0				
Trichloroethene	0.3582 0.2969	0.3177 0.3880	0.2898 0.2830	0.2976	0.2985	Ave		0.3162			11.8		30.0				
Methyl isobutyl ketone	++++ 0.2848	++++ 0.3418	0.2160 0.2923	0.2728	0.2887	Ave		0.2827			14.3		30.0				
Toluene	++++ 0.3973	++++ 0.4437	0.3687 0.3962	0.3907	0.4187	Ave		0.4128			8.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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	++++ 0.3146	0.2932 0.3836	0.2812 0.3212	0.3012	0.3154	Ave		0.3158			10.5		30.0				
trans-1,3-Dichloropropene	++++ 0.2735	0.2568 0.3362	0.2432 0.2756	0.2623	0.2745	Ave		0.2746			10.8		30.0				
1,1,2-Trichloroethane	++++ 0.1920	0.2085 0.2286	0.1848 0.1846	0.1884	0.2028	Ave		0.1985			8.1		30.0				
Tetrachloroethene	++++ 0.4476	0.5729 0.5543	0.4828 0.4343	0.4534	0.4682	Ave		0.4877			11.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2704	++++ 0.3416	0.2141 0.2685	0.2644	0.3028	Ave		0.2770			15.4		30.0				
n-Dodecane	++++ 0.2194	++++ 0.2070	++++ 0.2169	0.2000	0.2375	Ave		0.2162			6.6		30.0				
Dibromochloromethane	++++ 0.5522	0.4908 0.6697	0.4425 0.5380	0.5237	0.5813	Ave		0.5426			13.2		30.0				
1,2-Dibromoethane	++++ 0.3705	0.3817 0.4428	0.3416 0.3465	0.3690	0.3916	Ave		0.3777			8.9		30.0				
n-Decane	++++ 0.3672	++++ 0.4036	0.2622 0.3883	0.3436	0.3838	Ave		0.3581			14.3		30.0				
Chlorobenzene	++++ 0.5316	0.6243 0.6354	0.5145 0.5291	0.5300	0.5682	Ave		0.5619			8.8		30.0				
Ethylbenzene	++++ 0.8572	0.9328 0.9804	0.7316 0.8763	0.8243	0.9024	Ave		0.8721			9.2		30.0				
n-Nonane	++++ 0.3115	0.2927 0.3552	0.2554 0.3273	0.2964	0.3226	Ave		0.3087			10.2		30.0				
m,p-Xylene	++++ 0.3452	0.3547 0.4029	0.2795 0.3763	0.3286	0.3618	Ave		0.3499			11.1		30.0				
n-Undecane	++++ 0.3267	++++ 0.3476	++++ 0.3592	0.3051	0.3512	Ave		0.3380			6.5		30.0				
Xylene, o-	++++ 0.3624	0.3744 0.4153	0.2992 0.3736	0.3397	0.3729	Ave		0.3625			9.9		30.0				
Styrene	++++ 0.4700	0.4021 0.5623	0.3290 0.4999	0.4309	0.4980	Ave		0.4560			16.7		30.0				
Bromoform	++++ 0.5237	0.4260 0.6398	0.3589 0.5274	0.4839	0.5547	Ave		0.5020			18.1		30.0				
Cumene	++++ 1.0808	1.1005 1.2274	0.8709 1.0991	1.0169	1.1206	Ave		1.0737			10.2		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.4710	0.4862 0.5524	0.4016 0.4744	0.4556	0.5024	Ave		0.4777			9.6		30.0				
1,2,3-Trichloropropane	++++ 0.3457	++++ 0.4052	0.2974 0.3476	0.3419	0.3758	Ave		0.3523			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 INITIAL CALIBRATION DATA  
 INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
n-Propylbenzene	++++ 1.0978	1.0205 1.2655	0.8181 1.1427	1.0447	1.1629	Ave		1.0789			13.0		30.0				
4-Ethyltoluene	++++ 1.0032	0.8324 1.1674	0.7103 1.0347	0.9334	1.0582	Ave		0.9628			15.8		30.0				
2-Chlorotoluene	++++ 0.8076	0.8236 0.9379	0.6601 0.8150	0.7779	0.8563	Ave		0.8112			10.3		30.0				
1,3,5-Trimethylbenzene	++++ 0.8702	0.8248 0.9816	0.6693 0.8958	0.8258	0.8996	Ave		0.8525			11.3		30.0				
Alpha Methyl Styrene	++++ 0.3921	0.2633 0.4667	0.2088 0.4296	0.3491	0.4159	Ave		0.3608			26.0		30.0				
tert-Butylbenzene	++++ 0.9015	0.8968 1.0065	0.7356 0.9336	0.8525	0.9233	Ave		0.8928			9.4		30.0				
1,2,4-Trimethylbenzene	++++ 0.8362	0.7285 0.9420	0.5998 0.8609	0.7938	0.8793	Ave		0.8058			14.0		30.0				
sec-Butylbenzene	++++ 1.2168	1.1378 1.3738	0.9170 1.2605	1.1607	1.2722	Ave		1.1913			12.1		30.0				
4-Isopropyltoluene	++++ 1.0727	0.9429 1.2172	0.7288 1.1103	1.0033	1.1163	Ave		1.0273			15.4		30.0				
1,3-Dichlorobenzene	++++ 0.5307	0.4984 0.6410	0.3946 0.5646	0.4824	0.5641	Ave		0.5251			14.8		30.0				
1,4-Dichlorobenzene	++++ 0.4859	0.4326 0.5892	0.3452 0.5058	0.4325	0.5228	Ave		0.4734			16.6		30.0				
Benzyl chloride	++++ 0.5453	0.3508 0.6663	0.2815 0.5770	0.4674	0.5634	Ave		0.4931			27.5		30.0				
n-Butylbenzene	++++ 0.7748	0.5522 0.8891	0.4580 0.7974	0.7013	0.8147	Ave		0.7125			21.7		30.0				
1,2-Dichlorobenzene	++++ 0.5325	0.4918 0.6304	0.3879 0.5530	0.4901	0.5661	Ave		0.5217			14.6		30.0				
1,2,4-Trichlorobenzene	++++ 0.2386	++++ 0.2748	0.0907 0.2754	0.1753	0.2403	Ave		0.2158			33.1	*	30.0				
Hexachlorobutadiene	++++ 0.4244	0.4172 0.4800	0.3807 0.4018	0.4107	0.4396	Ave		0.4221			7.5		30.0				
Naphthalene	++++ 0.4991	++++ 0.5301	0.1959 0.5457	0.3802	0.5088	Ave		0.4433			30.4	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.2354	0.1174 0.2660	0.1152 0.2469	0.1881	0.2392	Ave		0.2012			31.1	*	30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43550/3	ggr003.d
Level 2	IC 200-43550/4	ggr004.d
Level 3	IC 200-43550/5	ggr005.d
Level 4	IC 200-43550/6	ggr006.d
Level 5	ICIS 200-43550/7	ggr007.d
Level 6	IC 200-43550/8	ggr008.d
Level 7	IC 200-43550/9	ggr009.d
Level 8	IC 200-43550/10	ggr010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Propylene	BCM	Ave	++++ 379922	++++ 508916	14222 1044814	123919	254334	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	++++ 2542431	++++ 3327981	86730 6760662	833003	1732993	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	++++ 1080905	++++ 1418289	39658 2878452	363543	737369	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 2337467	33359 3074477	78358 6279711	785662	1583248	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	++++ 475543	++++ 625520	16722 1284322	156256	316582	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	++++ 786717	++++ 1041553	26926 2162124	259713	529715	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	++++ 409024	5952 543073	13509 1110216	136163	275438	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	2832 627708	9320 833252	21821 1703076	208434	423073	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	++++ 192640	++++ 222328	++++ 516843	58508	122010	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Bromomethane	BCM	Ave	++++ 859160	12154 1135927	29459 2286428	277015	570632	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	++++ 309489	++++ 410807	10252 844764	101843	210604	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	++++ 598985	9219 785393	21139 1617138	198402	403735	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 860902	12414 1139294	27886 2380522	273709	575981	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	++++ 2589331	38082 3406537	91767 6985357	878700	1772955	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	++++ 864445	++++ 1138514	28235 2374209	283141	578823	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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
Ethanol	BCM	Ave	++++ 180255	++++ 357118	43951 887382	90005	125437	++++ 20.0	++++ 40.0	5.00 100	10.0	15.0
Ethyl ether	BCM	Ave	++++ 394126	4675 464174	12183 1080640	125359	256843	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Freon TF	BCM	Ave	++++ 1717720	23303 2310021	61103 4701014	570041	1164246	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1-Dichloroethene	BCM	Ave	++++ 730799	11464 974084	22999 2010559	240512	492541	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetone	BCM	Ave	++++ 849605	++++ 959200	++++ 2239292	288687	563615	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	++++ 44612	++++ 51532	++++ 128703	14212	28589	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Carbon disulfide	BCM	Ave	++++ 2088760	++++ 2750612	67224 5659512	678987	1390990	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopropyl alcohol	BCM	Ave	++++ 589207	++++ 711396	++++ 1525895	191943	413753	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
3-Chloropropene	BCM	Ave	++++ 669702	10035 874878	19977 1996324	227518	478393	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetonitrile	BCM	Ave	++++ 316371	++++ 349322	++++ 652102	89144	199722	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Methylene Chloride	BCM	Ave	++++ 648552	++++ 851124	24140 1730171	218746	443181	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
tert-Butyl alcohol	BCM	Ave	++++ 1096496	++++ 1344023	++++ 2988422	362343	782266	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Methyl tert-butyl ether	BCM	Ave	++++ 2049449	28107 2371368	63823 5597582	654880	1343541	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,2-Dichloroethene	BCM	Ave	++++ 1031955	14091 1370746	34233 2801402	346756	700310	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrylonitrile	BCM	Ave	++++ 343597	++++ 391844	10247 938559	106505	221449	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Hexane	BCM	Ave	++++ 879122	11301 1156986	27438 2404859	282879	583806	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1-Dichloroethane	BCM	Ave	++++ 1272930	17668 1663012	42686 3450345	415869	854210	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl acetate	BCM	Ave	++++ 1253091	++++ 1404881	++++ 3538132	375196	782101	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
cis-1,2-Dichloroethene	BCM	Ave	++++ 813491	13527 1073152	27824 2266197	266812	534230	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Ethyl Ketone	BCM	Ave	++++ 257406	++++ 298669	7855 736404	77656	166791	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Tetrahydrofuran	DFB	Ave	++++ 505755	++++ 577781	++++ 1393514	157469	330282	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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	++++ 1778885	24902 2271901	58145 4784505	588935	1169575	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	++++ 219801	++++ 289166	++++ 666302	67649	157876	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	++++ 2136057	29778 2777476	70264 5761210	705153	1430643	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	++++ 941989	22332 1234642	29575 2610592	298500	620069	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	++++ 2013741	27535 2518664	66564 5667769	663621	1305511	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	++++ 2793137	36689 3582050	87273 7692064	903562	1814729	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	++++ 1171166	15924 1441935	37258 3181778	391012	762478	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	++++ 924817	11746 1163581	29629 2554781	299819	603099	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	8052 2431295	32680 3195484	77936 6577343	812904	1641150	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	++++ 649705	8164 782466	19715 1801030	210419	421983	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	++++ 554436	++++ 644256	12252 1631283	161060	361029	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	++++ 265050	++++ 315630	++++ 683153	93073	192631	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	++++ 1262606	16172 1590648	37686 3529492	400739	795906	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	++++ 1893779	22083 2335584	55506 5148359	613824	1217432	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	++++ 1073389	13819 1290975	30298 3024544	336451	696389	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	4147 1158766	15934 1499725	37158 3088085	376744	753212	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl isobutyl ketone	DFB	Ave	++++ 1111263	++++ 1321458	27693 3189773	345435	728432	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	++++ 1452839	18847 1753817	42571 4168133	451200	934965	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	++++ 1227749	14706 1482811	36059 3505275	381350	795770	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	++++ 1067386	12879 1299691	31183 3007158	332068	692706	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 702268	8859 845287	21343 1941656	217561	452786	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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	CBZ	Ave	++++ 1636999	24339 2049188	55749 4569136	523639	1045523	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 988893	24722 1262963	305400 2824859	676137	305400	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	++++ 802297	++++ 765198	++++ 2282171	230978	530430	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	++++ 2019457	20848 2475790	51095 5659733	604800	1298039	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	++++ 1354816	16214 1636975	39437 3645500	426177	874421	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	++++ 1342887	++++ 1492217	30271 4084995	396804	857096	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	++++ 1944110	26521 2349217	59407 5566354	612059	1268866	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	++++ 3134835	39627 3624516	84472 9218703	952040	2015126	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	++++ 1139208	12432 1313269	29487 3443405	342374	720322	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	++++ 2525255	30135 2979305	64537 7918263	759118	1615775	++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
n-Undecane	CBZ	Ave	++++ 1194961	++++ 1285221	++++ 3779192	352374	784246	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Xylene, o-	CBZ	Ave	++++ 1325505	15905 1535190	34548 3930217	392299	832725	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	++++ 1718774	17080 2078804	37985 5259019	497686	1112034	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	++++ 1915215	18096 2365232	41435 5547850	558894	1238763	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	++++ 3952650	46751 4537736	100557 11562026	1174417	2502522	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1722486	20655 2042071	46369 4990893	526157	1122059	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	++++ 1264196	++++ 1498167	34340 3657156	394857	839262	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	++++ 4014992	43350 4678603	94464 12020913	1206528	2596883	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	++++ 3668821	35363 4315902	82014 10885393	1077982	2363252	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	++++ 2953571	34987 3467405	76222 8573831	898464	1912190	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3182496	35036 3629121	77284 9423669	953778	2008978	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12398-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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
Alpha Methyl Styrene	CBZ	Ave	++++ 1433969	11184 1725393	24111 4519017	403236	928857	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	++++ 3296891	38098 3721049	84938 9821354	984588	2061996	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 3058193	30946 3482492	69253 9056478	916786	1963544	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	++++ 4450052	48335 5078955	105877 13260470	1340553	2841050	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	++++ 3923103	40056 4499842	84147 11679728	1158706	2492820	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	++++ 1940819	21171 2369755	45567 5939941	557082	1259683	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	++++ 1777019	18377 2178286	39855 5321416	499460	1167551	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	++++ 1994386	14903 2463222	32505 6070401	539757	1258185	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	++++ 2833557	23456 3286925	52878 8388449	809967	1819297	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	++++ 1947399	20890 2330416	44787 5817497	566015	1264230	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 872677	++++ 1016095	10467 2896766	202413	536738	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	++++ 1552166	17725 1774520	43959 4226556	474315	981659	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	++++ 1825133	++++ 1959938	22622 5740214	439065	1136267	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 860924	4989 983443	13302 2597168	217289	534213	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:

Ave = Average ISTD

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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	0.6484	0.6663		10.3	10.0	2.8	30.0
Dichlorodifluoromethane	Ave	2.746	2.788		10.2	10.0	1.5	30.0
Freon 22	Ave	1.384	1.408		10.2	10.0	1.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.787		9.96	10.0	-0.4	30.0
Chloromethane	Ave	0.7657	0.7830		10.2	10.0	2.3	30.0
n-Butane	Ave	1.354	1.389		10.3	10.0	2.6	30.0
Vinyl chloride	Ave	0.9506	0.9470		9.96	10.0	-0.4	30.0
1,3-Butadiene	Ave	0.6877	0.7223		10.5	10.0	5.0	30.0
Bromomethane	Ave	0.9137	0.8865		9.70	10.0	-3.0	30.0
Chloroethane	Ave	0.4767	0.4754		9.97	10.0	-0.3	30.0
Isopentane	Ave	1.031	1.028		9.96	10.0	-0.3	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9751	0.9765		10.0	10.0	0.1	30.0
Trichlorofluoromethane	Ave	2.896	2.875		9.93	10.0	-0.7	30.0
n-Pentane	Ave	1.574	1.575		10.0	10.0	0.0	30.0
Ethanol	Ave	0.2344	0.2513		16.1	15.0	7.2	30.0
Ethyl ether	Ave	0.5994	0.6146		10.3	10.0	2.5	30.0
Acrolein	Ave	0.2829	0.2616		9.25	10.0	-7.5	30.0
Freon TF	Ave	2.025	2.150		10.6	10.0	6.2	30.0
1,1-Dichloroethene	Ave	0.9508	1.032		10.9	10.0	8.6	30.0
Acetone	Ave	1.101	1.208		11.0	10.0	9.7	30.0
Carbon disulfide	Ave	2.669	2.747		10.3	10.0	2.9	30.0
Isopropyl alcohol	Ave	0.7736	0.8070		10.4	10.0	4.3	30.0
3-Chloropropene	Ave	1.125	1.202		10.7	10.0	6.9	30.0
Acetonitrile	Ave	0.4531	0.5060		11.2	10.0	11.7	30.0
Methylene Chloride	Ave	0.9393	0.997		10.6	10.0	6.1	30.0
tert-Butyl alcohol	Ave	1.177	1.247		10.6	10.0	6.0	30.0
Methyl tert-butyl ether	Ave	2.647	2.814		10.6	10.0	6.3	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.427		10.2	10.0	2.0	30.0
Acrylonitrile	Ave	0.5402	0.6030		11.2	10.0	11.6	30.0
n-Hexane	Ave	1.513	1.551		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	1.799	1.826		10.1	10.0	1.5	30.0
Vinyl acetate	Ave	1.893	2.057		10.9	10.0	8.7	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.121		10.0	10.0	0.2	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4474		10.7	10.0	6.9	30.0
Ethyl acetate	Ave	0.0828	0.0876		10.6	10.0	5.9	30.0
Tetrahydrofuran	Ave	0.1572	0.1703		10.8	10.0	8.3	30.0
Chloroform	Ave	2.234	2.250		10.1	10.0	0.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4551		9.97	10.0	-0.3	30.0
Cyclohexane	Ave	0.2805	0.2822		10.1	10.0	0.6	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.88	10.0	-1.2	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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
Benzene	Ave	0.5923	0.5887		9.94	10.0	-0.6	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.8996		10.2	10.0	2.0	30.0
1,2-Dichloroethane	Ave	0.2664	0.2710		10.2	10.0	1.7	30.0
n-Heptane	Ave	0.3152	0.3254		10.3	10.0	3.2	30.0
n-Butanol	Ave	0.0579	0.0581		10.0	10.0	0.4	30.0
Trichloroethene	Ave	0.2787	0.2714		9.73	10.0	-2.6	30.0
1,2-Dichloropropane	Ave	0.1969	0.1920		9.75	10.0	-2.5	30.0
Methyl methacrylate	Ave	0.1681	0.1777		10.6	10.0	5.7	30.0
1,4-Dioxane	Ave	0.0702	0.0639		9.11	10.0	-8.9	30.0
Dibromomethane	Ave	0.2550	0.2525		9.90	10.0	-1.0	30.0
Bromodichloromethane	Ave	0.4359	0.4614		10.6	10.0	5.9	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3222		9.96	10.0	-0.4	30.0
Methyl isobutyl ketone	Ave	0.2796	0.3062		10.9	10.0	9.5	30.0
Toluene	Ave	0.4794	0.4739		9.88	10.0	-1.1	30.0
n-Octane	Ave	0.4253	0.4341		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3284		10.2	10.0	2.4	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2048		9.47	10.0	-5.3	30.0
Tetrachloroethene	Ave	0.4520	0.4338		9.60	10.0	-4.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.3020		10.8	10.0	8.1	30.0
Dibromochloromethane	Ave	0.4757	0.5164		10.9	10.0	8.6	30.0
1,2-Dibromoethane	Ave	0.4184	0.4150		9.92	10.0	-0.8	30.0
Chlorobenzene	Ave	0.6941	0.6711		9.67	10.0	-3.3	30.0
Ethylbenzene	Ave	1.008	1.035		10.3	10.0	2.7	30.0
n-Nonane	Ave	0.4389	0.4666		10.6	10.0	6.3	30.0
m,p-Xylene	Ave	0.4201	0.4322		20.6	20.0	2.9	30.0
Xylene, o-	Ave	0.4067	0.4199		10.3	10.0	3.2	30.0
Styrene	Ave	0.5752	0.6271		10.9	10.0	9.0	30.0
Bromoform	Ave	0.4612	0.5131		11.1	10.0	11.3	30.0
Cumene	Ave	1.170	1.245		10.6	10.0	6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5402		10.2	10.0	2.1	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4535		10.6	10.0	6.0	30.0
n-Propylbenzene	Ave	1.307	1.431		10.9	10.0	9.4	30.0
4-Ethyltoluene	Ave	1.133	1.288		11.4	10.0	13.8	30.0
n-Decane	Ave	0.4980	0.5713		11.5	10.0	14.7	30.0
2-Chlorotoluene	Ave	0.9700	1.058		10.9	10.0	9.0	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	1.049		10.7	10.0	6.8	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5383		11.7	10.0	17.4	30.0
tert-Butylbenzene	Ave	0.9877	1.083		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	1.025		10.8	10.0	7.9	30.0
sec-Butylbenzene	Ave	1.388	1.543		11.1	10.0	11.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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	1.178	1.346		11.4	10.0	14.3	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6994		10.4	10.0	4.5	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6868		10.6	10.0	5.9	30.0
Benzyl chloride	Ave	0.7030	0.8020		11.4	10.0	14.1	30.0
n-Butylbenzene	Ave	0.8856	1.055		11.9	10.0	19.1	30.0
n-Undecane	Ave	0.4617	0.5107		11.1	10.0	10.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6471		10.4	10.0	3.9	30.0
n-Dodecane	Ave	0.2640	0.2963		11.2	10.0	12.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.2872		10.3	10.0	3.3	30.0
Hexachlorobutadiene	Ave	0.3561	0.4031		11.3	10.0	13.2	30.0
Naphthalene	Ave	0.5526	0.6238		11.3	10.0	12.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2570		12.0	10.0	19.8	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44312/2 Calibration Date: 08/30/2012 09:21  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzl002.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	0.6484	0.6313		9.73	10.0	-2.6	30.0
Dichlorodifluoromethane	Ave	2.746	2.825		10.3	10.0	2.9	30.0
Freon 22	Ave	1.384	1.397		10.1	10.0	0.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.752		9.84	10.0	-1.6	30.0
Chloromethane	Ave	0.7657	0.7215		9.42	10.0	-5.8	30.0
n-Butane	Ave	1.354	1.288		9.51	10.0	-4.9	30.0
Vinyl chloride	Ave	0.9506	0.8793		9.25	10.0	-7.5	30.0
1,3-Butadiene	Ave	0.6877	0.6372		9.26	10.0	-7.3	30.0
Bromomethane	Ave	0.9137	0.8384		9.17	10.0	-8.2	30.0
Chloroethane	Ave	0.4767	0.4186		8.78	10.0	-12.2	30.0
Isopentane	Ave	1.031	0.8955		8.68	10.0	-13.2	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9751	0.9128		9.36	10.0	-6.4	30.0
Trichlorofluoromethane	Ave	2.896	2.896		10.0	10.0	0.0	30.0
n-Pentane	Ave	1.574	1.426		9.05	10.0	-9.4	30.0
Ethanol	Ave	0.2344	0.2123		13.6	15.0	-9.4	30.0
Ethyl ether	Ave	0.5994	0.5920		9.88	10.0	-1.2	30.0
Acrolein	Ave	0.2829	0.2534		8.96	10.0	-10.4	30.0
Freon TF	Ave	2.025	1.916		9.46	10.0	-5.4	30.0
1,1-Dichloroethene	Ave	0.9508	0.8825		9.28	10.0	-7.2	30.0
Acetone	Ave	1.101	1.259		11.4	10.0	14.3	30.0
Carbon disulfide	Ave	2.669	2.470		9.25	10.0	-7.4	30.0
Isopropyl alcohol	Ave	0.7736	0.8787		11.4	10.0	13.6	30.0
3-Chloropropene	Ave	1.125	1.036		9.21	10.0	-7.9	30.0
Acetonitrile	Ave	0.4531	0.4882		10.8	10.0	7.7	30.0
Methylene Chloride	Ave	0.9393	0.8477		9.02	10.0	-9.8	30.0
tert-Butyl alcohol	Ave	1.177	1.492		12.7	10.0	26.8	30.0
Methyl tert-butyl ether	Ave	2.647	2.659		10.0	10.0	0.4	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.333		9.52	10.0	-4.7	30.0
Acrylonitrile	Ave	0.5402	0.5261		9.74	10.0	-2.6	30.0
n-Hexane	Ave	1.513	1.376		9.09	10.0	-9.0	30.0
1,1-Dichloroethane	Ave	1.799	1.692		9.41	10.0	-5.9	30.0
Vinyl acetate	Ave	1.893	1.904		10.1	10.0	0.6	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.024		9.15	10.0	-8.5	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4087		9.77	10.0	-2.3	30.0
Ethyl acetate	Ave	0.0828	0.0786		9.49	10.0	-5.0	30.0
Tetrahydrofuran	Ave	0.1572	0.1495		9.51	10.0	-4.9	30.0
Chloroform	Ave	2.234	2.195		9.82	10.0	-1.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4515		9.89	10.0	-1.1	30.0
Cyclohexane	Ave	0.2805	0.2541		9.06	10.0	-9.4	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.87	10.0	-1.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44312/2 Calibration Date: 08/30/2012 09:21  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzl002.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
Benzene	Ave	0.5923	0.5268		8.89	10.0	-11.1	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.7897		8.95	10.0	-10.5	30.0
1,2-Dichloroethane	Ave	0.2664	0.2733		10.3	10.0	2.6	30.0
n-Heptane	Ave	0.3152	0.2828		8.97	10.0	-10.3	30.0
n-Butanol	Ave	0.0579	0.0609		10.5	10.0	5.2	30.0
Trichloroethene	Ave	0.2787	0.2645		9.49	10.0	-5.1	30.0
1,2-Dichloropropane	Ave	0.1969	0.1792		9.10	10.0	-9.0	30.0
Methyl methacrylate	Ave	0.1681	0.1621		9.64	10.0	-3.6	30.0
1,4-Dioxane	Ave	0.0702	0.0764		10.9	10.0	8.9	30.0
Dibromomethane	Ave	0.2550	0.2563		10.0	10.0	0.5	30.0
Bromodichloromethane	Ave	0.4359	0.4416		10.1	10.0	1.3	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3129		9.67	10.0	-3.3	30.0
Methyl isobutyl ketone	Ave	0.2796	0.2874		10.3	10.0	2.8	30.0
Toluene	Ave	0.4794	0.4600		9.59	10.0	-4.1	30.0
n-Octane	Ave	0.4253	0.3943		9.27	10.0	-7.3	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3327		10.4	10.0	3.7	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2058		9.52	10.0	-4.8	30.0
Tetrachloroethene	Ave	0.4520	0.4482		9.91	10.0	-0.8	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.2911		10.4	10.0	4.2	30.0
Dibromochloromethane	Ave	0.4757	0.4962		10.4	10.0	4.3	30.0
1,2-Dibromoethane	Ave	0.4184	0.4214		10.1	10.0	0.7	30.0
Chlorobenzene	Ave	0.6941	0.6685		9.63	10.0	-3.7	30.0
Ethylbenzene	Ave	1.008	0.9846		9.76	10.0	-2.4	30.0
n-Nonane	Ave	0.4389	0.4167		9.49	10.0	-5.1	30.0
m,p-Xylene	Ave	0.4201	0.4211		20.0	20.0	0.2	30.0
Xylene, o-	Ave	0.4067	0.4077		10.0	10.0	0.2	30.0
Styrene	Ave	0.5752	0.6059		10.5	10.0	5.3	30.0
Bromoform	Ave	0.4612	0.5016		10.9	10.0	8.8	30.0
Cumene	Ave	1.170	1.173		10.0	10.0	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5164		9.75	10.0	-2.4	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4266		9.96	10.0	-0.3	30.0
n-Propylbenzene	Ave	1.307	1.329		10.2	10.0	1.7	30.0
4-Ethyltoluene	Ave	1.133	1.191		10.5	10.0	5.2	30.0
n-Decane	Ave	0.4980	0.5152		10.3	10.0	3.4	30.0
2-Chlorotoluene	Ave	0.9700	0.9928		10.2	10.0	2.3	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	0.9880		10.1	10.0	0.6	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5056		11.0	10.0	10.3	30.0
tert-Butylbenzene	Ave	0.9877	1.006		10.2	10.0	1.8	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	0.9808		10.3	10.0	3.2	30.0
sec-Butylbenzene	Ave	1.388	1.415		10.2	10.0	1.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44312/2 Calibration Date: 08/30/2012 09:21  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzl002.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	1.178	1.254		10.6	10.0	6.4	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.7051		10.5	10.0	5.3	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6896		10.6	10.0	6.4	30.0
Benzyl chloride	Ave	0.7030	0.6685		9.51	10.0	-4.9	30.0
n-Butylbenzene	Ave	0.8856	0.9741		11.0	10.0	10.0	30.0
n-Undecane	Ave	0.4617	0.4731		10.2	10.0	2.5	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6635		10.7	10.0	6.6	30.0
n-Dodecane	Ave	0.2640	0.3052		11.6	10.0	15.6	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.3606		13.0	10.0	29.7	30.0
Hexachlorobutadiene	Ave	0.3561	0.4020		11.3	10.0	12.9	30.0
Naphthalene	Ave	0.5526	0.7414		13.4	10.0	34.2*	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.3030		14.1	10.0	41.2*	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43550/12 Calibration Date: 08/16/2012 04:52  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggr012.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	0.4268	0.3893		9.12	10.0	-8.8	30.0
Dichlorodifluoromethane	Ave	2.793	2.573		9.21	10.0	-7.9	30.0
Freon 22	Ave	1.209	1.133		9.37	10.0	-6.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.586	2.431		9.40	10.0	-6.0	30.0
Chloromethane	Ave	0.5252	0.5087		9.68	10.0	-3.1	30.0
n-Butane	Ave	0.8704	0.8249		9.47	10.0	-5.2	30.0
Vinyl chloride	Ave	0.7494	0.6729		8.98	10.0	-10.2	30.0
1,3-Butadiene	Ave	0.4531	0.4526		9.99	10.0	-0.1	30.0
Bromomethane	Ave	0.9436	0.8735		9.26	10.0	-7.4	30.0
Chloroethane	Ave	0.3407	0.3146		9.23	10.0	-7.7	30.0
Isopentane	Ave	0.6736	0.6199		9.20	10.0	-8.0	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9446	0.9223		9.76	10.0	-2.4	30.0
Trichlorofluoromethane	Ave	2.911	2.680		9.21	10.0	-7.9	30.0
n-Pentane	Ave	0.9458	0.8783		9.28	10.0	-7.1	30.0
Ethanol	Ave	0.1454	0.1352		14.0	15.0	-7.0	30.0
Ethyl ether	Ave	0.4090	0.3831		9.37	10.0	-6.3	30.0
Acrolein	Ave	0.1992	0.1634		8.20	10.0	-18.0	30.0
Freon TF	Ave	1.911	1.927		10.1	10.0	0.8	30.0
1,1-Dichloroethene	Ave	0.8143	0.8262		10.1	10.0	1.5	30.0
Acetone	Ave	0.9008	0.9726		10.8	10.0	8.0	30.0
Carbon disulfide	Ave	2.270	2.182		9.61	10.0	-3.9	30.0
Isopropyl alcohol	Ave	0.6326	0.5194		8.21	10.0	-17.9	30.0
3-Chloropropene	Ave	0.7515	0.7026		9.35	10.0	-6.5	30.0
Acetonitrile	Ave	0.3044	0.3132		10.3	10.0	2.9	30.0
Methylene Chloride	Ave	0.7282	0.7400		10.2	10.0	1.6	30.0
tert-Butyl alcohol	Ave	1.200	0.9728		8.11	10.0	-18.9	30.0
Methyl tert-butyl ether	Ave	2.169	2.087		9.62	10.0	-3.7	30.0
trans-1,2-Dichloroethene	Ave	1.136	1.073		9.44	10.0	-5.6	30.0
Acrylonitrile	Ave	0.3556	0.3548		9.97	10.0	-0.2	30.0
n-Hexane	Ave	0.9424	0.9144		9.70	10.0	-3.0	30.0
1,1-Dichloroethane	Ave	1.395	1.328		9.52	10.0	-4.8	30.0
Vinyl acetate	Ave	1.295	1.220		9.42	10.0	-5.8	30.0
cis-1,2-Dichloroethene	Ave	0.9221	0.8954		9.71	10.0	-2.9	30.0
Methyl Ethyl Ketone	Ave	0.2693	0.2688		9.98	10.0	-0.2	30.0
Ethyl acetate	Ave	0.0474	0.0452		9.53	10.0	-4.7	30.0
Tetrahydrofuran	Ave	0.1324	0.1160		8.76	10.0	-12.4	30.0
Chloroform	Ave	1.935	1.812		9.37	10.0	-6.3	30.0
1,1,1-Trichloroethane	Ave	0.5799	0.5018		8.65	10.0	-13.5	30.0
Cyclohexane	Ave	0.2511	0.2258		8.99	10.0	-10.1	30.0
Carbon tetrachloride	Ave	0.6625	0.5676		8.57	10.0	-14.3	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43550/12 Calibration Date: 08/16/2012 04:52  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggr012.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
Benzene	Ave	0.5424	0.4849		8.94	10.0	-10.6	30.0
2,2,4-Trimethylpentane	Ave	0.7417	0.6649		8.96	10.0	-10.4	30.0
1,2-Dichloroethane	Ave	0.3120	0.2729		8.74	10.0	-12.5	30.0
n-Heptane	Ave	0.2447	0.2173		8.88	10.0	-11.2	30.0
n-Butanol	Ave	0.0616	0.0440		7.14	10.0	-28.6	30.0
Trichloroethene	Ave	0.3162	0.2661		8.41	10.0	-15.8	30.0
1,2-Dichloropropane	Ave	0.1691	0.1500		8.87	10.0	-11.3	30.0
Methyl methacrylate	Ave	0.1373	0.1245		9.06	10.0	-9.3	30.0
1,4-Dioxane	Ave	0.0724	0.0522		7.20	10.0	-28.0	30.0
Dibromomethane	Ave	0.3295	0.3006		9.12	10.0	-8.8	30.0
Bromodichloromethane	Ave	0.4860	0.4529		9.32	10.0	-6.8	30.0
cis-1,3-Dichloropropene	Ave	0.2771	0.2498		9.01	10.0	-9.9	30.0
Methyl isobutyl ketone	Ave	0.2827	0.2550		9.02	10.0	-9.8	30.0
Toluene	Ave	0.4128	0.3955		9.58	10.0	-4.2	30.0
n-Octane	Ave	0.3158	0.2815		8.91	10.0	-10.9	30.0
trans-1,3-Dichloropropene	Ave	0.2746	0.2439		8.88	10.0	-11.2	30.0
1,1,2-Trichloroethane	Ave	0.1985	0.1779		8.96	10.0	-10.4	30.0
Tetrachloroethene	Ave	0.4877	0.4454		9.13	10.0	-8.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2770	0.2623		9.47	10.0	-5.3	30.0
Dibromochloromethane	Ave	0.5426	0.5449		10.0	10.0	0.4	30.0
1,2-Dibromoethane	Ave	0.3777	0.3600		9.53	10.0	-4.7	30.0
Chlorobenzene	Ave	0.5619	0.5109		9.09	10.0	-9.1	30.0
Ethylbenzene	Ave	0.8721	0.7922		9.08	10.0	-9.2	30.0
n-Nonane	Ave	0.3087	0.2927		9.48	10.0	-5.2	30.0
m,p-Xylene	Ave	0.3499	0.3239		18.5	20.0	-7.4	30.0
Xylene, o-	Ave	0.3625	0.3371		9.30	10.0	-7.0	30.0
Styrene	Ave	0.4560	0.4328		9.49	10.0	-5.1	30.0
Bromoform	Ave	0.5020	0.5067		10.1	10.0	0.9	30.0
Cumene	Ave	1.074	1.017		9.47	10.0	-5.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4777	0.4245		8.89	10.0	-11.1	30.0
1,2,3-Trichloropropane	Ave	0.3523	0.3266		9.27	10.0	-7.3	30.0
n-Propylbenzene	Ave	1.079	1.015		9.41	10.0	-5.9	30.0
4-Ethyltoluene	Ave	0.9628	0.9391		9.75	10.0	-2.5	30.0
2-Chlorotoluene	Ave	0.8112	0.7647		9.42	10.0	-5.7	30.0
n-Decane	Ave	0.3581	0.3346		9.34	10.0	-6.6	30.0
1,3,5-Trimethylbenzene	Ave	0.8525	0.7942		9.31	10.0	-6.8	30.0
Alpha Methyl Styrene	Ave	0.3608	0.3602		9.98	10.0	-0.2	30.0
tert-Butylbenzene	Ave	0.8928	0.8481		9.50	10.0	-5.0	30.0
1,2,4-Trimethylbenzene	Ave	0.8058	0.7434		9.22	10.0	-7.7	30.0
sec-Butylbenzene	Ave	1.191	1.137		9.54	10.0	-4.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43550/12 Calibration Date: 08/16/2012 04:52  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggr012.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	1.027	0.998		9.71	10.0	-2.9	30.0
1,3-Dichlorobenzene	Ave	0.5251	0.4772		9.09	10.0	-9.1	30.0
1,4-Dichlorobenzene	Ave	0.4734	0.4339		9.16	10.0	-8.4	30.0
Benzyl chloride	Ave	0.4931	0.4755		9.64	10.0	-3.6	30.0
n-Butylbenzene	Ave	0.7125	0.7049		9.89	10.0	-1.1	30.0
n-Undecane	Ave	0.3380	0.2916		8.63	10.0	-13.7	30.0
1,2-Dichlorobenzene	Ave	0.5217	0.4718		9.04	10.0	-9.6	30.0
n-Dodecane	Ave	0.2162	0.1915		8.86	10.0	-11.4	30.0
1,2,4-Trichlorobenzene	Ave	0.2158	0.1903		8.81	10.0	-11.8	30.0
Hexachlorobutadiene	Ave	0.4221	0.3830		9.07	10.0	-9.3	30.0
Naphthalene	Ave	0.4433	0.4015		9.06	10.0	-9.4	30.0
1,2,3-Trichlorobenzene	Ave	0.2012	0.2050		10.2	10.0	1.9	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44056/2 Calibration Date: 08/27/2012 16:33  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggri002.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	0.4268	0.3978		9.32	10.0	-6.8	30.0
Dichlorodifluoromethane	Ave	2.793	2.787		9.97	10.0	-0.2	30.0
Freon 22	Ave	1.209	1.125		9.30	10.0	-7.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.586	2.425		9.38	10.0	-6.2	30.0
Chloromethane	Ave	0.5252	0.4417		8.41	10.0	-15.9	30.0
n-Butane	Ave	0.8704	0.7282		8.36	10.0	-16.3	30.0
Vinyl chloride	Ave	0.7494	0.6081		8.11	10.0	-18.9	30.0
1,3-Butadiene	Ave	0.4531	0.3759		8.29	10.0	-17.0	30.0
Bromomethane	Ave	0.9436	0.8316		8.81	10.0	-11.9	30.0
Chloroethane	Ave	0.3407	0.2879		8.45	10.0	-15.5	30.0
Isopentane	Ave	0.6736	0.5389		8.00	10.0	-20.0	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9446	0.8787		9.30	10.0	-7.0	30.0
Trichlorofluoromethane	Ave	2.911	2.803		9.63	10.0	-3.7	30.0
n-Pentane	Ave	0.9458	0.7632		8.07	10.0	-19.3	30.0
Ethanol	Ave	0.1454	0.1069		11.0	15.0	-26.4	30.0
Ethyl ether	Ave	0.4090	0.3115		7.62	10.0	-23.8	30.0
Acrolein	Ave	0.1992	0.1353		6.79	10.0	-32.1*	30.0
Freon TF	Ave	1.911	1.720		9.00	10.0	-10.0	30.0
1,1-Dichloroethene	Ave	0.8143	0.7124		8.75	10.0	-12.5	30.0
Acetone	Ave	0.9008	0.7067		7.84	10.0	-21.6	30.0
Carbon disulfide	Ave	2.270	1.937		8.53	10.0	-14.7	30.0
Isopropyl alcohol	Ave	0.6326	0.5093		8.05	10.0	-19.5	30.0
3-Chloropropene	Ave	0.7515	0.5650		7.52	10.0	-24.8	30.0
Acetonitrile	Ave	0.3044	0.2563		8.42	10.0	-15.8	30.0
Methylene Chloride	Ave	0.7282	0.5952		8.17	10.0	-18.3	30.0
tert-Butyl alcohol	Ave	1.200	1.034		8.62	10.0	-13.8	30.0
Methyl tert-butyl ether	Ave	2.169	1.666		7.68	10.0	-23.2	30.0
trans-1,2-Dichloroethene	Ave	1.136	0.9703		8.54	10.0	-14.6	30.0
Acrylonitrile	Ave	0.3556	0.2517		7.08	10.0	-29.2	30.0
n-Hexane	Ave	0.9424	0.7764		8.24	10.0	-17.6	30.0
1,1-Dichloroethane	Ave	1.395	1.199		8.59	10.0	-14.1	30.0
Vinyl acetate	Ave	1.295	0.8749		6.76	10.0	-32.4*	30.0
cis-1,2-Dichloroethene	Ave	0.9221	0.8184		8.87	10.0	-11.2	30.0
Methyl Ethyl Ketone	Ave	0.2693	0.1940		7.20	10.0	-28.0	30.0
Ethyl acetate	Ave	0.0474	0.0362		7.64	10.0	-23.6	30.0
Tetrahydrofuran	Ave	0.1324	0.1008		7.61	10.0	-23.9	30.0
Chloroform	Ave	1.935	1.806		9.33	10.0	-6.7	30.0
1,1,1-Trichloroethane	Ave	0.5799	0.6360		11.0	10.0	9.7	30.0
Cyclohexane	Ave	0.2511	0.2611		10.4	10.0	4.0	30.0
Carbon tetrachloride	Ave	0.6625	0.7395		11.2	10.0	11.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44056/2 Calibration Date: 08/27/2012 16:33  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggri002.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
Benzene	Ave	0.5424	0.5272		9.72	10.0	-2.8	30.0
2,2,4-Trimethylpentane	Ave	0.7417	0.6947		9.36	10.0	-6.3	30.0
1,2-Dichloroethane	Ave	0.3120	0.3225		10.3	10.0	3.4	30.0
n-Heptane	Ave	0.2447	0.2182		8.91	10.0	-10.8	30.0
n-Butanol	Ave	0.0616	0.0514		8.33	10.0	-16.7	30.0
Trichloroethene	Ave	0.3162	0.3272		10.3	10.0	3.5	30.0
1,2-Dichloropropane	Ave	0.1691	0.1556		9.20	10.0	-8.0	30.0
Methyl methacrylate	Ave	0.1373	0.1127		8.20	10.0	-18.0	30.0
1,4-Dioxane	Ave	0.0724	0.0607		8.38	10.0	-16.2	30.0
Dibromomethane	Ave	0.3295	0.3657		11.1	10.0	11.0	30.0
Bromodichloromethane	Ave	0.4860	0.5109		10.5	10.0	5.1	30.0
cis-1,3-Dichloropropene	Ave	0.2771	0.2634		9.50	10.0	-5.0	30.0
Methyl isobutyl ketone	Ave	0.2827	0.2422		8.56	10.0	-14.4	30.0
Toluene	Ave	0.4128	0.4340		10.5	10.0	5.1	30.0
n-Octane	Ave	0.3158	0.2654		8.40	10.0	-16.0	30.0
trans-1,3-Dichloropropene	Ave	0.2746	0.2618		9.53	10.0	-4.7	30.0
1,1,2-Trichloroethane	Ave	0.1985	0.2171		10.9	10.0	9.4	30.0
Tetrachloroethene	Ave	0.4877	0.5924		12.1	10.0	21.5	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2770	0.2794		10.1	10.0	0.9	30.0
Dibromochloromethane	Ave	0.5426	0.6671		12.3	10.0	22.9	30.0
1,2-Dibromoethane	Ave	0.3777	0.4449		11.8	10.0	17.8	30.0
Chlorobenzene	Ave	0.5619	0.6329		11.3	10.0	12.6	30.0
Ethylbenzene	Ave	0.8721	0.9232		10.6	10.0	5.9	30.0
n-Nonane	Ave	0.3087	0.2981		9.66	10.0	-3.4	30.0
m,p-Xylene	Ave	0.3499	0.3697		21.1	20.0	5.7	30.0
Xylene, o-	Ave	0.3625	0.3921		10.8	10.0	8.2	30.0
Styrene	Ave	0.4560	0.5032		11.0	10.0	10.3	30.0
Bromoform	Ave	0.5020	0.6436		12.8	10.0	28.2	30.0
Cumene	Ave	1.074	1.164		10.8	10.0	8.5	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4777	0.5161		10.8	10.0	8.0	30.0
1,2,3-Trichloropropane	Ave	0.3523	0.3797		10.8	10.0	7.8	30.0
n-Propylbenzene	Ave	1.079	1.165		10.8	10.0	8.0	30.0
4-Ethyltoluene	Ave	0.9628	1.072		11.1	10.0	11.3	30.0
2-Chlorotoluene	Ave	0.8112	0.8953		11.0	10.0	10.4	30.0
n-Decane	Ave	0.3581	0.3476		9.71	10.0	-2.9	30.0
1,3,5-Trimethylbenzene	Ave	0.8525	0.9351		11.0	10.0	9.7	30.0
Alpha Methyl Styrene	Ave	0.3608	0.4304		11.9	10.0	19.3	30.0
tert-Butylbenzene	Ave	0.8928	0.9837		11.0	10.0	10.2	30.0
1,2,4-Trimethylbenzene	Ave	0.8058	0.8916		11.1	10.0	10.7	30.0
sec-Butylbenzene	Ave	1.191	1.293		10.9	10.0	8.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44056/2 Calibration Date: 08/27/2012 16:33  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggri002.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	1.027	1.157		11.3	10.0	12.6	30.0
1,3-Dichlorobenzene	Ave	0.5251	0.6135		11.7	10.0	16.8	30.0
1,4-Dichlorobenzene	Ave	0.4734	0.5615		11.9	10.0	18.6	30.0
Benzyl chloride	Ave	0.4931	0.4820		9.77	10.0	-2.3	30.0
n-Butylbenzene	Ave	0.7125	0.7923		11.1	10.0	11.2	30.0
n-Undecane	Ave	0.3380	0.3166		9.37	10.0	-6.3	30.0
1,2-Dichlorobenzene	Ave	0.5217	0.6242		12.0	10.0	19.6	30.0
n-Dodecane	Ave	0.2162	0.2145		9.92	10.0	-0.8	30.0
1,2,4-Trichlorobenzene	Ave	0.2158	0.2564		11.9	10.0	18.8	30.0
Hexachlorobutadiene	Ave	0.4221	0.5521		13.1	10.0	30.8*	30.0
Naphthalene	Ave	0.4433	0.4942		11.1	10.0	11.5	30.0
1,2,3-Trichlorobenzene	Ave	0.2012	0.2709		13.5	10.0	34.7*	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44193/2 Calibration Date: 08/28/2012 18:05  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggrj002.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	0.4268	0.3907		9.15	10.0	-8.5	30.0
Dichlorodifluoromethane	Ave	2.793	2.668		9.55	10.0	-4.5	30.0
Freon 22	Ave	1.209	1.082		8.95	10.0	-10.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.586	2.325		8.99	10.0	-10.1	30.0
Chloromethane	Ave	0.5252	0.4400		8.38	10.0	-16.2	30.0
n-Butane	Ave	0.8704	0.7182		8.25	10.0	-17.5	30.0
Vinyl chloride	Ave	0.7494	0.5814		7.76	10.0	-22.4	30.0
1,3-Butadiene	Ave	0.4531	0.3725		8.22	10.0	-17.8	30.0
Bromomethane	Ave	0.9436	0.7964		8.44	10.0	-15.6	30.0
Chloroethane	Ave	0.3407	0.2779		8.15	10.0	-18.4	30.0
Isopentane	Ave	0.6736	0.5329		7.91	10.0	-20.9	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9446	0.8340		8.83	10.0	-11.7	30.0
Trichlorofluoromethane	Ave	2.911	2.659		9.13	10.0	-8.7	30.0
n-Pentane	Ave	0.9458	0.7489		7.92	10.0	-20.8	30.0
Ethanol	Ave	0.1454	0.1171		12.1	15.0	-19.5	30.0
Ethyl ether	Ave	0.4090	0.3353		8.20	10.0	-18.0	30.0
Acrolein	Ave	0.1992	0.1476		7.41	10.0	-25.9	30.0
Freon TF	Ave	1.911	1.653		8.65	10.0	-13.5	30.0
1,1-Dichloroethene	Ave	0.8143	0.6797		8.35	10.0	-16.5	30.0
Acetone	Ave	0.9008	0.8187		9.09	10.0	-9.1	30.0
Carbon disulfide	Ave	2.270	1.865		8.21	10.0	-17.9	30.0
Isopropyl alcohol	Ave	0.6326	0.5516		8.72	10.0	-12.8	30.0
3-Chloropropene	Ave	0.7515	0.5664		7.53	10.0	-24.6	30.0
Acetonitrile	Ave	0.3044	0.2740		9.00	10.0	-10.0	30.0
Methylene Chloride	Ave	0.7282	0.5772		7.92	10.0	-20.7	30.0
tert-Butyl alcohol	Ave	1.200	1.098		9.15	10.0	-8.5	30.0
Methyl tert-butyl ether	Ave	2.169	1.858		8.57	10.0	-14.3	30.0
trans-1,2-Dichloroethene	Ave	1.136	0.9485		8.35	10.0	-16.5	30.0
Acrylonitrile	Ave	0.3556	0.2836		7.97	10.0	-20.2	30.0
n-Hexane	Ave	0.9424	0.7644		8.11	10.0	-18.9	30.0
1,1-Dichloroethane	Ave	1.395	1.162		8.33	10.0	-16.7	30.0
Vinyl acetate	Ave	1.295	1.007		7.77	10.0	-22.3	30.0
cis-1,2-Dichloroethene	Ave	0.9221	0.8010		8.68	10.0	-13.1	30.0
Methyl Ethyl Ketone	Ave	0.2693	0.2245		8.34	10.0	-16.6	30.0
Ethyl acetate	Ave	0.0474	0.0400		8.44	10.0	-15.6	30.0
Tetrahydrofuran	Ave	0.1324	0.1031		7.78	10.0	-22.1	30.0
Chloroform	Ave	1.935	1.778		9.19	10.0	-8.1	30.0
1,1,1-Trichloroethane	Ave	0.5799	0.5513		9.50	10.0	-4.9	30.0
Cyclohexane	Ave	0.2511	0.2249		8.95	10.0	-10.4	30.0
Carbon tetrachloride	Ave	0.6625	0.6375		9.62	10.0	-3.8	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44193/2 Calibration Date: 08/28/2012 18:05  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggrj002.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
Benzene	Ave	0.5424	0.4795		8.84	10.0	-11.6	30.0
2,2,4-Trimethylpentane	Ave	0.7417	0.6340		8.55	10.0	-14.5	30.0
1,2-Dichloroethane	Ave	0.3120	0.2926		9.38	10.0	-6.2	30.0
n-Heptane	Ave	0.2447	0.1986		8.11	10.0	-18.9	30.0
n-Butanol	Ave	0.0616	0.0489		7.94	10.0	-20.6	30.0
Trichloroethene	Ave	0.3162	0.2871		9.08	10.0	-9.2	30.0
1,2-Dichloropropane	Ave	0.1691	0.1434		8.48	10.0	-15.2	30.0
Methyl methacrylate	Ave	0.1373	0.1163		8.46	10.0	-15.3	30.0
1,4-Dioxane	Ave	0.0724	0.0686		9.46	10.0	-5.3	30.0
Dibromomethane	Ave	0.3295	0.3338		10.1	10.0	1.3	30.0
Bromodichloromethane	Ave	0.4860	0.4620		9.50	10.0	-4.9	30.0
cis-1,3-Dichloropropene	Ave	0.2771	0.2455		8.86	10.0	-11.4	30.0
Methyl isobutyl ketone	Ave	0.2827	0.2326		8.22	10.0	-17.7	30.0
Toluene	Ave	0.4128	0.3660		8.86	10.0	-11.3	30.0
n-Octane	Ave	0.3158	0.2535		8.03	10.0	-19.7	30.0
trans-1,3-Dichloropropene	Ave	0.2746	0.2441		8.89	10.0	-11.1	30.0
1,1,2-Trichloroethane	Ave	0.1985	0.1737		8.75	10.0	-12.5	30.0
Tetrachloroethene	Ave	0.4877	0.4703		9.64	10.0	-3.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2770	0.2215		8.00	10.0	-20.0	30.0
Dibromochloromethane	Ave	0.5426	0.5324		9.81	10.0	-1.9	30.0
1,2-Dibromoethane	Ave	0.3777	0.3549		9.40	10.0	-6.0	30.0
Chlorobenzene	Ave	0.5619	0.5082		9.04	10.0	-9.6	30.0
Ethylbenzene	Ave	0.8721	0.7674		8.80	10.0	-12.0	30.0
n-Nonane	Ave	0.3087	0.2626		8.50	10.0	-15.0	30.0
m,p-Xylene	Ave	0.3499	0.3150		18.0	20.0	-10.0	30.0
Xylene, o-	Ave	0.3625	0.3282		9.05	10.0	-9.5	30.0
Styrene	Ave	0.4560	0.4105		9.00	10.0	-10.0	30.0
Bromoform	Ave	0.5020	0.5110		10.2	10.0	1.8	30.0
Cumene	Ave	1.074	0.999		9.30	10.0	-7.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4777	0.4297		8.99	10.0	-10.0	30.0
1,2,3-Trichloropropane	Ave	0.3523	0.3168		8.99	10.0	-10.1	30.0
n-Propylbenzene	Ave	1.079	0.9793		9.08	10.0	-9.2	30.0
4-Ethyltoluene	Ave	0.9628	0.9030		9.38	10.0	-6.2	30.0
2-Chlorotoluene	Ave	0.8112	0.7376		9.09	10.0	-9.1	30.0
n-Decane	Ave	0.3581	0.3073		8.58	10.0	-14.2	30.0
1,3,5-Trimethylbenzene	Ave	0.8525	0.8019		9.41	10.0	-5.9	30.0
Alpha Methyl Styrene	Ave	0.3608	0.3553		9.85	10.0	-1.5	30.0
tert-Butylbenzene	Ave	0.8928	0.8592		9.62	10.0	-3.8	30.0
1,2,4-Trimethylbenzene	Ave	0.8058	0.7641		9.48	10.0	-5.2	30.0
sec-Butylbenzene	Ave	1.191	1.116		9.36	10.0	-6.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44193/2 Calibration Date: 08/28/2012 18:05  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggrj002.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	1.027	0.9892		9.63	10.0	-3.7	30.0
1,3-Dichlorobenzene	Ave	0.5251	0.4944		9.41	10.0	-5.8	30.0
1,4-Dichlorobenzene	Ave	0.4734	0.4498		9.50	10.0	-5.0	30.0
Benzyl chloride	Ave	0.4931	0.3886		7.88	10.0	-21.2	30.0
n-Butylbenzene	Ave	0.7125	0.6676		9.37	10.0	-6.3	30.0
n-Undecane	Ave	0.3380	0.2540		7.51	10.0	-24.8	30.0
1,2-Dichlorobenzene	Ave	0.5217	0.5124		9.82	10.0	-1.8	30.0
n-Dodecane	Ave	0.2162	0.1504		6.96	10.0	-30.4*	30.0
1,2,4-Trichlorobenzene	Ave	0.2158	0.1878		8.70	10.0	-13.0	30.0
Hexachlorobutadiene	Ave	0.4221	0.4586		10.9	10.0	8.7	30.0
Naphthalene	Ave	0.4433	0.3527		7.96	10.0	-20.4	30.0
1,2,3-Trichlorobenzene	Ave	0.2012	0.1984		9.86	10.0	-1.4	30.0

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44056/4  
 Matrix: Air Lab File ID: ggri004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/27/2012 18:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44056/4  
 Matrix: Air Lab File ID: ggri004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/27/2012 18:19  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44056 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4

US EPA ARCHIVE DOCUMENT



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44193/4  
 Matrix: Air Lab File ID: ggrj004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 19:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44193/4  
 Matrix: Air Lab File ID: ggrj004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 19:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44312/4  
 Matrix: Air Lab File ID: ckz1004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/30/2012 11:08  
 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.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44312/4  
 Matrix: Air Lab File ID: ckz1004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/30/2012 11:08  
 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.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44056/3  
 Matrix: Air Lab File ID: ggri003.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/27/2012 17:26  
 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.: 44056 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	7.93		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	9.63		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	8.80		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	9.28		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	18.1		0.20	0.20
79-01-6	Trichloroethene	131.39	8.76		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.51		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44193/3  
 Matrix: Air Lab File ID: ggrj003.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 18:58  
 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.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	7.43		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	9.25		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	8.45		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	8.90		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	17.4		0.20	0.20
79-01-6	Trichloroethene	131.39	8.48		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.11		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12398-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44312/3  
 Matrix: Air Lab File ID: ckz1003.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/30/2012 10:15  
 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.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	9.46		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	10.9		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	9.84		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	9.89		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	19.7		0.20	0.20
79-01-6	Trichloroethene	131.39	9.73		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.76		0.20	0.20

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AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Start Date: 08/14/2012 16:28

Analysis Batch Number: 43490 End Date: 08/15/2012 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43490/1		08/14/2012 16:28	1	ckz001.d	RTX-624 0.32 (mm)
VIBLK 200-43490/2		08/14/2012 17:21	1		RTX-624 0.32 (mm)
IC 200-43490/3		08/14/2012 18:13	1	ckz003.d	RTX-624 0.32 (mm)
IC 200-43490/4		08/14/2012 19:07	1	ckz004.d	RTX-624 0.32 (mm)
IC 200-43490/5		08/14/2012 20:00	1	ckz005.d	RTX-624 0.32 (mm)
IC 200-43490/6		08/14/2012 20:53	1	ckz006.d	RTX-624 0.32 (mm)
ZZZZZ		08/14/2012 21:47	1		RTX-624 0.32 (mm)
IC 200-43490/8		08/14/2012 22:41	1	ckz008.d	RTX-624 0.32 (mm)
IC 200-43490/9		08/14/2012 23:34	1	ckz009.d	RTX-624 0.32 (mm)
IC 200-43490/10		08/15/2012 00:28	1	ckz010.d	RTX-624 0.32 (mm)
VIBLK 200-43490/11		08/15/2012 01:22	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 02:15	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 03:08	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 04:02	1		RTX-624 0.32 (mm)
ICIS 200-43490/15		08/15/2012 08:24	1	ckz015.d	RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 09:22	1		RTX-624 0.32 (mm)
VIBLK 200-43490/17		08/15/2012 10:16	1		RTX-624 0.32 (mm)
ICV 200-43490/18		08/15/2012 11:09	1	ckz018.d	RTX-624 0.32 (mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Start Date: 08/30/2012 08:28

Analysis Batch Number: 44312 End Date: 08/31/2012 07:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44312/1		08/30/2012 08:28	1	ckz1001.d	RTX-624 0.32 (mm)
CCVIS 200-44312/2		08/30/2012 09:21	1	ckz1002.d	RTX-624 0.32 (mm)
LCS 200-44312/3		08/30/2012 10:15	1	ckz1003.d	RTX-624 0.32 (mm)
MB 200-44312/4		08/30/2012 11:08	1	ckz1004.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 12:01	200		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 12:54	24.9		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 13:48	1		RTX-624 0.32 (mm)
200-12398-9 DL	SSV-08 DL	08/30/2012 14:41	303	ckz1008.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 15:34	20		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 16:28	102		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 17:22	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 18:15	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 19:08	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 20:02	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 20:55	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 21:49	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 22:43	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 23:36	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 00:29	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 01:23	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 02:17	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 03:11	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 04:05	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 04:59	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 05:53	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 06:46	40		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 07:39	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Start Date: 08/15/2012 17:30

Analysis Batch Number: 43550 End Date: 08/16/2012 14:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43550/1		08/15/2012 17:30	1	ggr001.d	RTX-624 0.32 (mm)
VIBLK 200-43550/2		08/15/2012 20:06	1		RTX-624 0.32 (mm)
IC 200-43550/3		08/15/2012 20:58	1	ggr003.d	RTX-624 0.32 (mm)
IC 200-43550/4		08/15/2012 21:51	1	ggr004.d	RTX-624 0.32 (mm)
IC 200-43550/5		08/15/2012 22:43	1	ggr005.d	RTX-624 0.32 (mm)
IC 200-43550/6		08/15/2012 23:36	1	ggr006.d	RTX-624 0.32 (mm)
ICIS 200-43550/7		08/16/2012 00:28	1	ggr007.d	RTX-624 0.32 (mm)
IC 200-43550/8		08/16/2012 01:21	1	ggr008.d	RTX-624 0.32 (mm)
IC 200-43550/9		08/16/2012 02:14	1	ggr009.d	RTX-624 0.32 (mm)
IC 200-43550/10		08/16/2012 03:07	1	ggr010.d	RTX-624 0.32 (mm)
VIBLK 200-43550/11		08/16/2012 03:59	1		RTX-624 0.32 (mm)
ICV 200-43550/12		08/16/2012 04:52	1	ggr012.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 05:46	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 06:39	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 07:32	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 08:24	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 09:17	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 10:12	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 11:08	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 12:03	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 12:56	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 13:48	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 14:41	0.4		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Start Date: 08/27/2012 15:36

Analysis Batch Number: 44056 End Date: 08/28/2012 14:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44056/1		08/27/2012 15:36	1	ggri001.d	RTX-624 0.32 (mm)
CCVIS 200-44056/2		08/27/2012 16:33	1	ggri002.d	RTX-624 0.32 (mm)
LCS 200-44056/3		08/27/2012 17:26	1	ggri003.d	RTX-624 0.32 (mm)
MB 200-44056/4		08/27/2012 18:19	1	ggri004.d	RTX-624 0.32 (mm)
ZZZZZ		08/27/2012 19:12	10		RTX-624 0.32 (mm)
ZZZZZ		08/27/2012 20:05	1.8		RTX-624 0.32 (mm)
ZZZZZ		08/27/2012 20:58	8.16		RTX-624 0.32 (mm)
ZZZZZ		08/27/2012 21:51	3470		RTX-624 0.32 (mm)
ZZZZZ		08/27/2012 22:44	125000		RTX-624 0.32 (mm)
ZZZZZ		08/27/2012 23:37	125000		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 00:29	2		RTX-624 0.32 (mm)
200-12398-2	SSV-02	08/28/2012 01:22	2	ggri012.d	RTX-624 0.32 (mm)
200-12398-3	SSV-02/FD	08/28/2012 02:15	2	ggri013.d	RTX-624 0.32 (mm)
200-12398-6	SSV-06	08/28/2012 03:08	2	ggri014.d	RTX-624 0.32 (mm)
200-12398-6 DL	SSV-06 DL	08/28/2012 04:01	8	ggri015.d	RTX-624 0.32 (mm)
200-12398-7	SSV-06/FD	08/28/2012 04:54	2	ggri016.d	RTX-624 0.32 (mm)
200-12398-7 DL	SSV-06/FD DL	08/28/2012 05:47	10	ggri017.d	RTX-624 0.32 (mm)
200-12398-8	SSV-07	08/28/2012 06:39	2	ggri018.d	RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 07:31	1.12		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 08:24	1		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 09:17	1		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 10:09	10		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 11:02	10		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 11:55	1		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 12:48	1		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 13:40	1		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 14:33	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12398-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Start Date: 08/28/2012 17:11

Analysis Batch Number: 44193 End Date: 08/29/2012 15:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44193/1		08/28/2012 17:11	1	ggrj001.d	RTX-624 0.32 (mm)
CCVIS 200-44193/2		08/28/2012 18:05	1	ggrj002.d	RTX-624 0.32 (mm)
LCS 200-44193/3		08/28/2012 18:58	1	ggrj003.d	RTX-624 0.32 (mm)
MB 200-44193/4		08/28/2012 19:51	1	ggrj004.d	RTX-624 0.32 (mm)
200-12398-1	SSV-01	08/28/2012 20:44	2	ggrj005.d	RTX-624 0.32 (mm)
200-12398-4	SSV-04	08/28/2012 21:37	10.1	ggrj006.d	RTX-624 0.32 (mm)
200-12398-4 DL	SSV-04 DL	08/28/2012 22:30	48.8	ggrj007.d	RTX-624 0.32 (mm)
200-12398-5	SSV-05	08/28/2012 23:22	28	ggrj008.d	RTX-624 0.32 (mm)
200-12398-5 DL	SSV-05 DL	08/29/2012 00:15	139	ggrj009.d	RTX-624 0.32 (mm)
200-12398-9	SSV-08	08/29/2012 01:08	47.9	ggrj010.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 02:01	242		RTX-624 0.32 (mm)
200-12398-10	SSV-09	08/29/2012 02:54	4.74	ggrj012.d	RTX-624 0.32 (mm)
200-12398-10 DL	SSV-09 DL	08/29/2012 03:47	23.1	ggrj013.d	RTX-624 0.32 (mm)
200-12398-12	SSV-11	08/29/2012 04:39	4.68	ggrj014.d	RTX-624 0.32 (mm)
200-12398-12 DL	SSV-11 DL	08/29/2012 05:32	19.1	ggrj015.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 06:25	2.47		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 07:18	1.24		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 08:11	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 09:04	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 09:57	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 10:49	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 11:42	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 12:34	40		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 13:27	198		RTX-624 0.32 (mm)
200-12398-11	SSV-10	08/29/2012 14:21	260	ggrj025.d	RTX-624 0.32 (mm)
200-12398-11 DL	SSV-10 DL	08/29/2012 15:14	1330	ggrj026.d	RTX-624 0.32 (mm)

**Summa Canister Dilution Worksheet**

Client: Burns & McDonnell

TestAmerica Job ID: 200-12398-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Time	Analyst
200-12398-1	1	-9.4	0.69	0.69	2.4	1.16	1.16	1.70	1.70	08/28/12	9:52	Desjardins, William R
200-12398-10	1	-6.5	0.78	0.78	39.8	3.71	3.71	4.74	4.74	08/28/12	22:40	Keene, Angela H
200-12398-11	1	-7.9	0.74	0.74	38.9	3.65	3.65	4.95	4.95	08/28/12	22:45	Keene, Angela H
200-12398-11	1	0.0	1.00	1.00	40.1	3.73	3.73	3.73	18.46	08/28/12	22:48	Keene, Angela H
200-12398-11	1	0.0	1.00	1.00	43.0	3.93	3.93	3.93	72.56	08/28/12	23:06	Keene, Angela H
200-12398-11	1	0	1.00	1.00	18.9	2.29	2.29	2.29	166.17	08/29/12	11:29	Desjardins, William R
200-12398-12	1	-6.8	0.77	0.77	38.5	3.62	3.62	4.68	4.68	08/28/12	23:10	Keene, Angela H
200-12398-4	1	-6.9	0.77	0.77	40.5	3.76	3.76	4.88	4.88	08/28/12	20:41	Keene, Angela H
200-12398-4	1	0.0	1.00	1.00						08/28/12	20:43	Keene, Angela H
200-12398-5	1	-2.7	0.91	0.91	43.4	3.95	3.95	4.34	4.34	08/28/12	20:36	Keene, Angela H
200-12398-5	1	0.0	1.00	1.00	39.4	3.68	3.68	3.68	15.97	08/28/12	20:38	Keene, Angela H
200-12398-9	1	-6.4	0.79	0.79	41.7	3.84	3.84	4.88	4.88	08/28/12	20:44	Keene, Angela H
200-12398-9	1	0.0	1.00	1.00	40.9	3.78	3.78	3.78	18.45	08/28/12	20:46	Keene, Angela H
200-12398-9	1	0.0	1.00	1.00	19.1	2.30	2.30	2.30	42.43	08/28/12	20:48	Keene, Angela H

**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)
- Vol = Volume of SUMMA canister at atmospheric pressure

# Shipping and Receiving Documents

**TestAmerica Burlington**

30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

Client Contact Information		Project Manager: <u>Tom Zychunski</u>				Samples Collected By: <u>(C.A.)</u>				1 of 1 COCs																																									
Company: <u>Burns &amp; McDonnell</u>		Phone: <u>314-682-1500</u>																																																	
Address: <u>455 South Woods Mill Rd</u>		Email: <u>cmathenia@burnsmcd.com</u>																																																	
City/State/Zip: <u>Chestnutfield, Mo 63017</u>		Site Contact: <u>Cheryl Mathews</u>																																																	
Phone: <u>314-682-1500</u>		TA Contact: <u>Tom Zychunski</u>																																																	
FAX: _____																																																			
Project Name: <u>PEI</u>		Analysis Turnaround Time																																																	
Site: <u>PEI</u>		Standard (Specify)																																																	
PO # <u>201182</u>		<input checked="" type="checkbox"/> Rush (Specify) <u>5 DAY TAT</u>																																																	
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	TO-15 LL	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																																
IA-06	8/21-22/12	0844	0833	-30	-8	2937	3217	X																																											
IA-13	↓	0851	0834	-30	-7	5000	2585	X																																											
IA-04	↓	1009	<del>1001</del> 1001	-29	-8	4761	2737	X																																											
IA-11	↓	1003	1002	-30	-13	4522	2595	X																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Temperature (Fahrenheit)</th> </tr> <tr> <td></td> <td>Interior</td> <td colspan="2">Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Stop</td> <td></td> <td colspan="2"></td> </tr> <tr> <th colspan="4">Pressure (inches of Hg)</th> </tr> <tr> <td></td> <td>Interior</td> <td colspan="2">Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Stop</td> <td></td> <td colspan="2"></td> </tr> </table>																				Temperature (Fahrenheit)					Interior	Ambient		Start				Stop				Pressure (inches of Hg)					Interior	Ambient		Start				Stop			
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Special Instructions/QC Requirements & Comments:																																																			
Samples Shipped by: <u>[Signature]</u>				Date/Time: <u>8/22/12 1700</u>				Samples Received by: <u>[Signature]</u>				Date/Time: <u>8/24/12 0945</u>																																							
Samples Relinquished by: <u>[Signature]</u>				Date/Time:				Received by:																																											
Relinquished by:				Date/Time:				Received by:																																											

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 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

Client Contact Information		Project Manager: <u>Tom Zychinski</u>				Samples Collected By: <u>(PM)</u>				1 of 2 COCs																																									
Company: <u>Burns &amp; McDonnell</u>		Phone:																																																	
Address: <u>475 South Woods Mill Rd</u>		Email: <u>Cmathenia@burnsmcd.com</u>																																																	
City/State/Zip: <u>Charleston, VT 05617</u>		Site Contact: <u>Cheryl Mathena</u>																																																	
Phone: <u>802-660-1500</u>		TA Contact: <u>Don Dawicki</u>																																																	
FAX:																																																			
Project Name: <u>PK1</u>		Analysis Turnaround Time																																																	
Site: <u>PK1</u>		Standard (Specify)																																																	
PO # <u>206080</u>		<input checked="" type="checkbox"/> Rush (Specify) <u>5-DAY</u>																																																	
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	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (please specify in notes section)																																
<u>SSV-01</u>	<u>8/21/12</u>	<u>1346</u>	<u>1355</u>	<u>-30</u>	<u>-5</u>	<u>3378</u>	<u>4852</u>	<input checked="" type="checkbox"/>																																											
<u>SSV-02</u>		<u>1310</u>	<u>1321</u>	<u>-29</u>	<u>-5</u>	<u>2757</u>	<u>3721</u>																																												
<u>SSV-02/FD</u>		<u>1310</u>	<u>1321</u>	<u>-30</u>	<u>-5</u>	<u>5194</u>	<u>A7096D</u>																																												
<u>SSV-034</u>		<u>1020</u>	<u>1030</u>	<u>-30</u>	<u>-5</u>	<u>3936</u>	<u>01184</u>																																												
<u>SSV-05</u>		<u>1055</u>	<u>1103</u>	<u>-29</u>	<u>-5</u>	<u>4034</u>	<u>00749</u>																																												
<u>SSV-06</u>	<input checked="" type="checkbox"/>	<u>1140</u>	<u>1151</u>	<u>-30</u>	<u>-5</u>	<u>3856</u>	<u>4864</u>	<input checked="" type="checkbox"/>																																											
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Samples Shipped by: <u>[Signature]</u>					Date/Time:					Samples Received by: <u>[Signature]</u>					Date/Time: <u>8/21/12 0845</u>																																				
Samples Relinquished by: <u>[Signature]</u>					Date/Time:					Received by:																																									
Relinquished by:					Date/Time:					Received by:																																									

Lab Use Only      Shipper Name:      Opened by:      Condition:



**TestAmerica Burlington**

30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

Client Contact Information				Project Manager: <u>Tom Zychinski</u>				Samples Collected By: <u>(Signature)</u>				2 of 2 COCs										
Company: <u>Burns &amp; McDonnell</u>				Phone: <u>314-1082-1500</u>																		
Address: <u>425 Southlands Mill Rd</u>				Email: <u>cmathene@burnsmid.com</u>																		
City/State/Zip: <u>Chestnut Field, Md 2077</u>				Site Contact: <u>Cheryl Mathene</u>																		
Phone: <u>314-1082-1500</u>				TA Contact: <u>Don Dawicki</u>																		
FAX: <u>---</u>				Analysis Turnaround Time																		
Project Name: <u>PK1</u>				Standard (Specify)																		
Site: <u>PK1</u>				X Rush (Specify) <u>5 Day</u>																		
PO # <u>200802</u>																						
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	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
<u>SSV-06/FD</u>				<u>8/21/12</u>	<u>1140</u>	<u>1151</u>	<u>-30</u>	<u>-5</u>	<u>3741</u>	<u>A6871D</u>	<u>X</u>											
<u>SSV-07</u>				<u>↓</u>	<u>1212</u>	<u>1221</u>	<u>-30</u>	<u>-5</u>	<u>2668</u>	<u>5047D</u>	<u>X</u>											
<u>SSV-08</u>				<u>↓</u>	<u>0854</u>	<u>0905</u>	<u>-24</u>	<u>-4</u>	<u>4500</u>	<u>2980</u>	<u>X</u>											
<u>SSV-09</u>				<u>8/21/12</u>	<u>0925</u>	<u>0936</u>	<u>-30</u>	<u>-5</u>	<u>4027</u>	<u>5022D</u>	<u>X</u>											
<u>SSV-10</u>				<u>8/22/12</u>	<u>1530</u>	<u>1541</u>	<u>-28</u>	<u>-5</u>	<u>4756</u>	<u>3583</u>	<u>X</u>											
<u>SSV-11</u>				<u>8/22/12</u>	<u>1427</u>	<u>1433</u>	<u>-24</u>	<u>-5</u>	<u>5186</u>	<u>A6814D</u>	<u>X</u>											
<u>IA-11/FD</u>				<u>8/22/12</u>	<u>1003</u>	<u>1003</u>	<u>Temperature (Fahrenheit)</u>		<u>3449</u>	<u>3573</u>	<u>X</u>	<u>← TO-15 LL</u>										
					<u>Interior</u>		<u>Ambient</u>															
				<u>Start</u>																		
				<u>Stop</u>																		
				Pressure (inches of Hg)																		
					<u>Interior</u>		<u>Ambient</u>															
				<u>Start</u>																		
				<u>Stop</u>																		
Special Instructions/QC Requirements & Comments:																						
Samples Shipped by: <u>(Signature)</u>				Date/Time: <u>8/22/12 1700</u>				Samples Received by: <u>(Signature)</u>														
Samples Relinquished by: <u>(Signature)</u>				Date/Time: <u>8/22/12 1700</u>				Received by: <u>(Signature)</u>														
Relinquished by: <u>(Signature)</u>				Date/Time: <u>8/22/12 1700</u>				Received by: <u>(Signature)</u>														

Lab Use Only

Shipper Name:

Opened by:

Condition:

From: (314) 682-1500 - Origin ID: ZSVA  
Jeanette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017



J12201207160325

SHIP TO: (802) 660-1990  
SAMPLE RECEIVING  
TestAmerica  
30 COMMUNITY DR

BILL SENDER

SOUTH BURLINGTON, VT 05403

Ship Date: 20AUG12  
ActWgt: 30.0 LB  
CAD: 5444229/NET3300

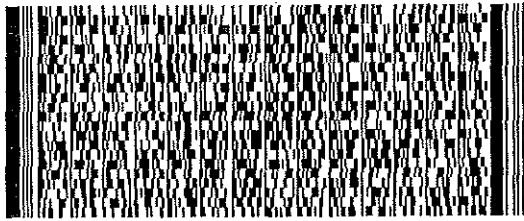
Delivery Address Bar Code



Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

TUE - 21 AUG A4  
STANDARD OVERNIGHT

TRK# 7987 8206 9880  
0201



FedEx  
TRK# 7987 8206 9880  
0201

FRI - 24 AUG A4  
STANDARD OVERNIGHT

**XH BTVA**

05403  
VT-US BTV



From: (314) 682-1500 Origin ID: ZSVA  
Jeanette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017



J12201207160325

SHIP TO: (802) 660-1990  
SAMPLE RECEIVING  
TestAmerica  
30 COMMUNITY DR

BILL SENDER

SOUTH BURLINGTON, VT 05403

Ship Date: 22AUG12  
ActWgt: 30.0 LB  
CAD: 5444229/NET3300

Delivery Address Bar Code



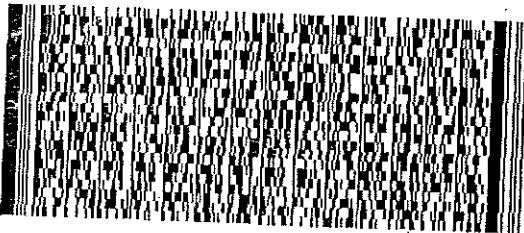
Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

THU - 23 AUG A4  
STANDARD OVERNIGHT

TRK# 7987 8187 9463  
0201

**YH RTVA**

05403  
VT-US



FedEx  
TRK# 7987 8187 9463  
0201

FRI - 24 AUG A4  
STANDARD OVERNIGHT

**XH BTVA**

05403  
VT-US BTV



## Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 200-12398-1

SDG Number:

**Login Number: 12398**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Poucher, Stephanie A**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	no numbers
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.	True	ambient
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 sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

Job Number: 200-12429-1

Job Description: PKI/26682-3.20.20 - Air

For:

Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017  
Attention: Cheryl Mathenia



Approved for release.  
Don C Dawicki  
Customer Service Manager  
9/4/2012 5:43 PM

---

Don C Dawicki  
Customer Service Manager  
don.dawicki@testamericainc.com  
09/04/2012

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.**

TestAmerica Burlington 30 Community Drive, Suite 11, South Burlington, VT 05403

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



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## CASE NARRATIVE

**Client: Burns & McDonnell**

**Project: PKI/26682-3.20.20 - Air**

**Report Number: 200-12429-1**

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

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

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

### **RECEIPT**

The samples were received on 08/27/2012; the samples arrived in good condition.

### **VOLATILE ORGANIC COMPOUNDS**

Samples SSV-03, SSV-12, SSV-13, SSV-16, SSV-15, SSV-14 and SSV-17 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/29/2012 and 08/30/2012.

The original volatile organics analyses for certain of the samples in this delivery group yielded concentrations of target analytes that exceeded the range of calibrated instrument response. These samples were diluted analyzed yielding acceptable response. The results from both analyses for each sample have been formally presented.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

### **LOW LEVEL VOLATILE ORGANIC COMPOUNDS**

Samples AMB-2, AMB-3, AMB-4 and AMB-5 were analyzed for Low Level Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/30/2012.

Sample AMB-5 was diluted due the presence of high concentrations of non-target analytes that interfered with the instrumentation in the original analysis attempt. This sample was analyzed as concentrated as possible, with the goal of providing for the best possible reporting limits.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Analysis Batch Number: 43490

Lab Sample ID: IC 200-43490/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 18:13 Lab File ID: ckz003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.13	Poor chromatography	ahk	08/14/12 22:55
Carbon tetrachloride	12.78	Poor chromatography		

Lab Sample ID: IC 200-43490/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 19:07 Lab File ID: ckz004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	8.95	Poor chromatography		
Methyl tert-butyl ether	9.66	Poor chromatography		
n-Butanol	14.24	Analyte misidentified by the data system	ahk	08/14/12 23:01
trans-1,3-Dichloropropene	17.23	Poor chromatography		
n-Nonane	19.79	Peak not found by the data system	ahk	08/14/12 23:02
n-Dodecane	25.46	Peak not found by the data system	ahk	08/14/12 23:02

Lab Sample ID: IC 200-43490/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 20:00 Lab File ID: ckz005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	14.24	Peak not found by the data system	ahk	08/14/12 23:04



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Analysis Batch Number: 44312

Lab Sample ID: CCVIS 200-44312/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/30/12 09:21 Lab File ID: ckz1002.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.87	Baseline event	wrd	08/31/12 08:22
Acetonitrile	8.91	Baseline event	wrd	08/31/12 08:23

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 43550

Lab Sample ID: IC 200-43550/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/12 20:58 Lab File ID: ggr003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	4.73	Peak not found by the data system	pd	08/16/12 07:39

Lab Sample ID: IC 200-43550/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/12 21:51 Lab File ID: ggr004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Isopentane	6.03	Poor chromatography	ahk	08/16/12 15:58

Lab Sample ID: IC 200-43550/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/15/12 23:36 Lab File ID: ggr006.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:08

Lab Sample ID: ICIS 200-43550/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 00:28 Lab File ID: ggr007.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:08

Lab Sample ID: IC 200-43550/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 01:21 Lab File ID: ggr008.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:09

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 43550

Lab Sample ID: IC 200-43550/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 02:14 Lab File ID: ggr009.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.53	Baseline event	wrd	08/16/12 10:03
Acetonitrile	8.56	Baseline event	pd	08/16/12 07:40
1,4-Dioxane	14.65	Baseline event	wrd	08/16/12 10:09

Lab Sample ID: IC 200-43550/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 03:07 Lab File ID: ggr010.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	14.66	Baseline event	wrd	08/16/12 10:10

Lab Sample ID: ICV 200-43550/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/16/12 04:52 Lab File ID: ggr012.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.53	Baseline event	wrd	08/16/12 10:05
Acetonitrile	8.56	Baseline event	pd	08/16/12 07:43
1,4-Dioxane	14.66	Poor chromatography	wrd	08/16/12 10:07

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Analysis Batch Number: 44193

Lab Sample ID: CCVIS 200-44193/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/28/12 18:05 Lab File ID: ggrj002.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	8.52	Poor chromatography	ahk	08/28/12 19:04
Acetonitrile	8.55	Poor chromatography	ahk	08/28/12 19:05
1,4-Dioxane	14.64	Poor chromatography	ahk	08/28/12 19:05

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Analysis Batch Number: 38293

Lab Sample ID: IC 200-38293/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/07/12 15:17 Lab File ID: eev003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	7.96	Baseline event	wrd	05/08/12 08:43
1,1,2-Trichloroethane	14.20	Peak not found by the data system	wrd	05/08/12 08:25
Bromoform	16.62	Peak not found by the data system	wrd	05/08/12 08:26

Lab Sample ID: IC 200-38293/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/07/12 16:11 Lab File ID: eev004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	7.12	Baseline event	wrd	05/08/12 08:31
Methyl tert-butyl ether	7.93	Baseline event	wrd	05/08/12 08:31
1,2-Dichloroethane	10.96	Peak not found by the data system	wrd	05/08/12 08:26

## SAMPLE SUMMARY

Client: Burns & McDonnell

Job Number: 200-12429-1

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Client Matrix</b>	<b>Date/Time Sampled</b>	<b>Date/Time Received</b>
200-12429-1	AMB-2	Air	08/24/2012 0959	08/27/2012 0940
200-12429-2	AMB-3	Air	08/24/2012 1002	08/27/2012 0940
200-12429-3	AMB-4	Air	08/24/2012 1005	08/27/2012 0940
200-12429-4	AMB-5	Air	08/24/2012 1006	08/27/2012 0940
200-12429-5	SSV-03	Air	08/23/2012 1334	08/27/2012 0940
200-12429-6	SSV-12	Air	08/23/2012 1609	08/27/2012 0940
200-12429-7	SSV-13	Air	08/23/2012 1646	08/27/2012 0940
200-12429-8	SSV-16	Air	08/23/2012 0858	08/27/2012 0940
200-12429-9	SSV-15	Air	08/23/2012 1128	08/27/2012 0940
200-12429-10	SSV-14	Air	08/23/2012 1153	08/27/2012 0940
200-12429-11	SSV-17	Air	08/23/2012 0931	08/27/2012 0940

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12429-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12429-1</b>	<b>AMB-2</b>					
Trichloroethene		0.028		0.010	ppb v/v	TO15 LL
Trichloroethene		0.15		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.024		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.16		0.068	ug/m3	TO15 LL
<b>200-12429-2</b>	<b>AMB-3</b>					
cis-1,2-Dichloroethene		0.017		0.010	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		0.069		0.040	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.017		0.010	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		0.069		0.040	ug/m3	TO15 LL
Trichloroethene		0.046		0.010	ppb v/v	TO15 LL
Trichloroethene		0.25		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.023		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.15		0.068	ug/m3	TO15 LL
<b>200-12429-3</b>	<b>AMB-4</b>					
Trichloroethene		0.030		0.010	ppb v/v	TO15 LL
Trichloroethene		0.16		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.025		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.17		0.068	ug/m3	TO15 LL
<b>200-12429-5</b>	<b>SSV-03</b>					
Trichloroethene		1.3		0.40	ppb v/v	TO-15
Trichloroethene		6.9		2.1	ug/m3	TO-15
<b>200-12429-6</b>	<b>SSV-12</b>					
trans-1,2-Dichloroethene		200		8.0	ppb v/v	TO-15
trans-1,2-Dichloroethene		810		32	ug/m3	TO-15
cis-1,2-Dichloroethene		5400	D	40	ppb v/v	TO-15
cis-1,2-Dichloroethene		21000	D	160	ug/m3	TO-15
1,2-Dichloroethene, Total		5600	D	40	ppb v/v	TO-15
1,2-Dichloroethene, Total		22000	D	160	ug/m3	TO-15
Trichloroethene		7300	D	40	ppb v/v	TO-15
Trichloroethene		39000	D	210	ug/m3	TO-15
Tetrachloroethene		120		8.0	ppb v/v	TO-15
Tetrachloroethene		830		54	ug/m3	TO-15

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12429-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12429-7</b>	<b>SSV-13</b>					
trans-1,2-Dichloroethene		87		4.0	ppb v/v	TO-15
trans-1,2-Dichloroethene		340		16	ug/m3	TO-15
cis-1,2-Dichloroethene		3200	D	20	ppb v/v	TO-15
cis-1,2-Dichloroethene		13000	D	81	ug/m3	TO-15
1,2-Dichloroethene, Total		3100		4.0	ppb v/v	TO-15
1,2-Dichloroethene, Total		12000		16	ug/m3	TO-15
Trichloroethene		3900	D	20	ppb v/v	TO-15
Trichloroethene		21000	D	110	ug/m3	TO-15
Tetrachloroethene		69		4.0	ppb v/v	TO-15
Tetrachloroethene		470		27	ug/m3	TO-15
<b>200-12429-8</b>	<b>SSV-16</b>					
cis-1,2-Dichloroethene		1.9		0.40	ppb v/v	TO-15
cis-1,2-Dichloroethene		7.7		1.6	ug/m3	TO-15
1,2-Dichloroethene, Total		1.9		0.40	ppb v/v	TO-15
1,2-Dichloroethene, Total		7.7		1.6	ug/m3	TO-15
Trichloroethene		18		0.40	ppb v/v	TO-15
Trichloroethene		95		2.1	ug/m3	TO-15
Tetrachloroethene		3.5		0.40	ppb v/v	TO-15
Tetrachloroethene		24		2.7	ug/m3	TO-15
<b>200-12429-9</b>	<b>SSV-15</b>					
cis-1,2-Dichloroethene		0.49		0.40	ppb v/v	TO-15
cis-1,2-Dichloroethene		2.0		1.6	ug/m3	TO-15
1,2-Dichloroethene, Total		0.49		0.40	ppb v/v	TO-15
1,2-Dichloroethene, Total		2.0		1.6	ug/m3	TO-15
Trichloroethene		2.4		0.40	ppb v/v	TO-15
Trichloroethene		13		2.1	ug/m3	TO-15
Tetrachloroethene		0.68		0.40	ppb v/v	TO-15
Tetrachloroethene		4.6		2.7	ug/m3	TO-15
<b>200-12429-10</b>	<b>SSV-14</b>					
Tetrachloroethene		3.0		0.40	ppb v/v	TO-15
Tetrachloroethene		20		2.7	ug/m3	TO-15
<b>200-12429-11</b>	<b>SSV-17</b>					
Tetrachloroethene		3.0		0.40	ppb v/v	TO-15
Tetrachloroethene		21		2.7	ug/m3	TO-15

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# METHOD SUMMARY

Client: Burns & McDonnell

Job Number: 200-12429-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Air</b>			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister
Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	TAL BUR	EPA TO15 LL	
Collection via Summa Canister	TAL BUR		Summa Canister

### Lab References:

TAL BUR = TestAmerica Burlington

### Method References:

EPA = US Environmental Protection Agency

US EPA ARCHIVE DOCUMENT

## METHOD / ANALYST SUMMARY

Client: Burns & McDonnell

Job Number: 200-12429-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA TO-15	Desjardins, William R	WRD
EPA TO-15	Perkins, Karen L	KLP
EPA TO15 LL	Desjardins, William R	WRD

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-03

Lab Sample ID: 200-12429-5

Date Sampled: 08/23/2012 1334

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj022.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/29/2012 1142			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 1142			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	1.3		0.40	0.40
Tetrachloroethene	0.40	U	0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	6.9		2.1	2.1
Tetrachloroethene	2.7	U	2.7	2.7

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-12

Lab Sample ID: 200-12429-6

Date Sampled: 08/23/2012 1609

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj023.d
Dilution:	40			Initial Weight/Volume:	198 mL
Analysis Date:	08/29/2012 1234			Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 1234			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	8.0	U	8.0	8.0
1,1-Dichloroethene	8.0	U	8.0	8.0
trans-1,2-Dichloroethene	200		8.0	8.0
cis-1,2-Dichloroethene	5900	E	8.0	8.0
1,2-Dichloroethene, Total	6100		8.0	8.0
Trichloroethene	8100	E	8.0	8.0
Tetrachloroethene	120		8.0	8.0

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	20	U	20	20
1,1-Dichloroethene	32	U	32	32
trans-1,2-Dichloroethene	810		32	32
cis-1,2-Dichloroethene	24000	E	32	32
1,2-Dichloroethene, Total	24000		32	32
Trichloroethene	43000	E	43	43
Tetrachloroethene	830		54	54

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-12

Lab Sample ID: 200-12429-6

Date Sampled: 08/23/2012 1609

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44193	Instrument ID:	G.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ggrj024.d
Dilution:	198			Initial Weight/Volume:	40 mL
Analysis Date:	08/29/2012 1327	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/29/2012 1327			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	40	U	40	40
1,1-Dichloroethene	40	U	40	40
trans-1,2-Dichloroethene	200	D	40	40
cis-1,2-Dichloroethene	5400	D	40	40
1,2-Dichloroethene, Total	5600	D	40	40
Trichloroethene	7300	D	40	40
Tetrachloroethene	100	D	40	40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	100	U	100	100
1,1-Dichloroethene	160	U	160	160
trans-1,2-Dichloroethene	780	D	160	160
cis-1,2-Dichloroethene	21000	D	160	160
1,2-Dichloroethene, Total	22000	D	160	160
Trichloroethene	39000	D	210	210
Tetrachloroethene	690	D	270	270

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-13

Lab Sample ID: 200-12429-7

Date Sampled: 08/23/2012 1646

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl009.d
Dilution:	20			Initial Weight/Volume:	164 mL
Analysis Date:	08/30/2012 1534			Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1534			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	4.0	U	4.0	4.0
1,1-Dichloroethene	4.0	U	4.0	4.0
trans-1,2-Dichloroethene	87		4.0	4.0
cis-1,2-Dichloroethene	3000	E	4.0	4.0
1,2-Dichloroethene, Total	3100		4.0	4.0
Trichloroethene	3900	E	4.0	4.0
Tetrachloroethene	69		4.0	4.0

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	10	U	10	10
1,1-Dichloroethene	16	U	16	16
trans-1,2-Dichloroethene	340		16	16
cis-1,2-Dichloroethene	12000	E	16	16
1,2-Dichloroethene, Total	12000		16	16
Trichloroethene	21000	E	21	21
Tetrachloroethene	470		27	27

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-13

Lab Sample ID: 200-12429-7

Date Sampled: 08/23/2012 1646

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl010.d
Dilution:	102			Initial Weight/Volume:	32 mL
Analysis Date:	08/30/2012 1628	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1628			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	20	U	20	20
1,1-Dichloroethene	20	U	20	20
trans-1,2-Dichloroethene	97	D	20	20
cis-1,2-Dichloroethene	3200	D	20	20
1,2-Dichloroethene, Total	3300	D	20	20
Trichloroethene	3900	D	20	20
Tetrachloroethene	78	D	20	20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	52	U	52	52
1,1-Dichloroethene	81	U	81	81
trans-1,2-Dichloroethene	380	D	81	81
cis-1,2-Dichloroethene	13000	D	81	81
1,2-Dichloroethene, Total	13000	D	81	81
Trichloroethene	21000	D	110	110
Tetrachloroethene	530	D	140	140

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-16

Lab Sample ID: 200-12429-8

Date Sampled: 08/23/2012 0858

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl011.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/30/2012 1722			Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1722			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	1.9		0.40	0.40
1,2-Dichloroethene, Total	1.9		0.40	0.40
Trichloroethene	18		0.40	0.40
Tetrachloroethene	3.5		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	7.7		1.6	1.6
1,2-Dichloroethene, Total	7.7		1.6	1.6
Trichloroethene	95		2.1	2.1
Tetrachloroethene	24		2.7	2.7

US EPA ARCHIVE DOCUMENT



Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-15

Lab Sample ID: 200-12429-9

Date Sampled: 08/23/2012 1128

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl012.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/30/2012 1815			Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1815			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.49		0.40	0.40
1,2-Dichloroethene, Total	0.49		0.40	0.40
Trichloroethene	2.4		0.40	0.40
Tetrachloroethene	0.68		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	2.0		1.6	1.6
1,2-Dichloroethene, Total	2.0		1.6	1.6
Trichloroethene	13		2.1	2.1
Tetrachloroethene	4.6		2.7	2.7

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-14

Lab Sample ID: 200-12429-10

Date Sampled: 08/23/2012 1153

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl013.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/30/2012 1908			Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1908			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	0.40	U	0.40	0.40
Tetrachloroethene	3.0		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	2.1	U	2.1	2.1
Tetrachloroethene	20		2.7	2.7

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: SSV-17

Lab Sample ID: 200-12429-11

Date Sampled: 08/23/2012 0931

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44312	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzl014.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/30/2012 2002			Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 2002			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	0.40	U	0.40	0.40
Tetrachloroethene	3.0		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	1.6	U	1.6	1.6
cis-1,2-Dichloroethene	1.6	U	1.6	1.6
1,2-Dichloroethene, Total	1.6	U	1.6	1.6
Trichloroethene	2.1	U	2.1	2.1
Tetrachloroethene	21		2.7	2.7

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: AMB-2

Lab Sample ID: 200-12429-1

Date Sampled: 08/24/2012 0959

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz015.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/30/2012 0312			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 0312			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.028		0.010	0.010
Tetrachloroethene	0.024		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.15		0.054	0.054
Tetrachloroethene	0.16		0.068	0.068

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: AMB-3

Lab Sample ID: 200-12429-2

Date Sampled: 08/24/2012 1002

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz016.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/30/2012 0407			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 0407			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.017		0.010	0.010
1,2-Dichloroethene, Total	0.017		0.010	0.010
Trichloroethene	0.046		0.010	0.010
Tetrachloroethene	0.023		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.069		0.040	0.040
1,2-Dichloroethene, Total	0.069		0.040	0.040
Trichloroethene	0.25		0.054	0.054
Tetrachloroethene	0.15		0.068	0.068

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: AMB-4

Lab Sample ID: 200-12429-3

Date Sampled: 08/24/2012 1005

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz017.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/30/2012 0502			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 0502			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.030		0.010	0.010
Tetrachloroethene	0.025		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.16		0.054	0.054
Tetrachloroethene	0.17		0.068	0.068

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Client: Burns & McDonnell

Job Number: 200-12429-1

Client Sample ID: AMB-5

Lab Sample ID: 200-12429-4

Date Sampled: 08/24/2012 1006

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz024.d
Dilution:	4.0			Initial Weight/Volume:	125 mL
Analysis Date:	08/30/2012 1122			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 1122			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.080	U	0.080	0.080
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.040	U	0.040	0.040
Tetrachloroethene	0.040	U	0.040	0.040

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.16	U	0.16	0.16
trans-1,2-Dichloroethene	0.16	U	0.16	0.16
cis-1,2-Dichloroethene	0.16	U	0.16	0.16
1,2-Dichloroethene, Total	0.16	U	0.16	0.16
Trichloroethene	0.21	U	0.21	0.21
Tetrachloroethene	0.27	U	0.27	0.27

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12429-1

**Method Blank - Batch: 200-44193**

Lab Sample ID: MB 200-44193/4  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 08/28/2012 1951  
 Prep Date: 08/28/2012 1951  
 Leach Date: N/A

Analysis Batch: 200-44193  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ppb v/v

**Method: TO-15  
 Preparation: Summa Canister**

Instrument ID: G.i  
 Lab File ID: ggrj004.d  
 Initial Weight/Volume: 200 mL  
 Final Weight/Volume: 200 mL  
 Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20

**Method Blank - Batch: 200-44193**

Lab Sample ID: MB 200-44193/4  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 08/28/2012 1951  
 Prep Date: 08/28/2012 1951  
 Leach Date: N/A

Analysis Batch: 200-44193  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/m3

**Method: TO-15  
 Preparation: Summa Canister**

Instrument ID: G.i  
 Lab File ID: ggrj004.d  
 Initial Weight/Volume: 200 mL  
 Final Weight/Volume: 200 mL  
 Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Trichloroethene	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Lab Control Sample - Batch: 200-44193

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44193/3	Analysis Batch:	200-44193	Instrument ID:	G.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ggrj003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/28/2012 1858	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/28/2012 1858			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	10.0	7.43	74	70 - 130	
1,1-Dichloroethene	10.0	9.25	93	70 - 130	
trans-1,2-Dichloroethene	10.0	8.45	85	70 - 130	
cis-1,2-Dichloroethene	10.0	8.90	89	70 - 130	
Trichloroethene	10.0	8.48	85	70 - 130	
Tetrachloroethene	10.0	9.11	91	70 - 130	

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Client: Burns & McDonnell

Job Number: 200-12429-1

**Method Blank - Batch: 200-44312**

Lab Sample ID: MB 200-44312/4  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 08/30/2012 1108  
 Prep Date: 08/30/2012 1108  
 Leach Date: N/A

Analysis Batch: 200-44312  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ppb v/v

**Method: TO-15  
 Preparation: Summa Canister**

Instrument ID: C.i  
 Lab File ID: ckzl004.d  
 Initial Weight/Volume: 200 mL  
 Final Weight/Volume: 200 mL  
 Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20

**Method Blank - Batch: 200-44312**

Lab Sample ID: MB 200-44312/4  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 08/30/2012 1108  
 Prep Date: 08/30/2012 1108  
 Leach Date: N/A

Analysis Batch: 200-44312  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/m3

**Method: TO-15  
 Preparation: Summa Canister**

Instrument ID: C.i  
 Lab File ID: ckzl004.d  
 Initial Weight/Volume: 200 mL  
 Final Weight/Volume: 200 mL  
 Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Trichloroethene	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Lab Control Sample - Batch: 200-44312

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44312/3	Analysis Batch:	200-44312	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzl003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/30/2012 1015	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/30/2012 1015			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	10.0	9.46	95	70 - 130	
1,1-Dichloroethene	10.0	10.9	109	70 - 130	
trans-1,2-Dichloroethene	10.0	9.84	98	70 - 130	
cis-1,2-Dichloroethene	10.0	9.89	99	70 - 130	
Trichloroethene	10.0	9.73	97	70 - 130	
Tetrachloroethene	10.0	9.76	98	70 - 130	

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Method Blank - Batch: 200-44227

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID: MB 200-44227/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/29/2012 1716  
Prep Date: 08/29/2012 1716  
Leach Date: N/A

Analysis Batch: 200-44227  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: E.i  
Lab File ID: eevz004.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.010	U	0.010	0.010
Tetrachloroethene	0.010	U	0.010	0.010

Method Blank - Batch: 200-44227

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID: MB 200-44227/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/29/2012 1716  
Prep Date: 08/29/2012 1716  
Leach Date: N/A

Analysis Batch: 200-44227  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

Instrument ID: E.i  
Lab File ID: eevz004.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.054	U	0.054	0.054
Tetrachloroethene	0.068	U	0.068	0.068

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Lab Control Sample - Batch: 200-44227

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44227/3	Analysis Batch:	200-44227	Instrument ID:	E.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	eevz003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	08/29/2012 1622	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	08/29/2012 1622			Injection Volume:	500 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.187	93	70 - 130	
1,1-Dichloroethene	0.200	0.210	105	70 - 130	
trans-1,2-Dichloroethene	0.200	0.185	93	70 - 130	
cis-1,2-Dichloroethene	0.200	0.183	91	70 - 130	
Trichloroethene	0.200	0.168	84	70 - 130	
Tetrachloroethene	0.200	0.146	73	70 - 130	

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## DATA REPORTING QUALIFIERS

Client: Burns & McDonnell

Job Number: 200-12429-1

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

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Air - GC/MS VOA</b>					
<b>Analysis Batch:200-44193</b>					
LCS 200-44193/3	Lab Control Sample	T	Air	TO-15	
MB 200-44193/4	Method Blank	T	Air	TO-15	
200-12429-5	SSV-03	T	Air	TO-15	
200-12429-6	SSV-12	T	Air	TO-15	
200-12429-6DL	SSV-12	T	Air	TO-15	
<b>Analysis Batch:200-44227</b>					
LCS 200-44227/3	Lab Control Sample	T	Air	TO15 LL	
MB 200-44227/4	Method Blank	T	Air	TO15 LL	
200-12429-1	AMB-2	T	Air	TO15 LL	
200-12429-2	AMB-3	T	Air	TO15 LL	
200-12429-3	AMB-4	T	Air	TO15 LL	
200-12429-4	AMB-5	T	Air	TO15 LL	
<b>Analysis Batch:200-44312</b>					
LCS 200-44312/3	Lab Control Sample	T	Air	TO-15	
MB 200-44312/4	Method Blank	T	Air	TO-15	
200-12429-7	SSV-13	T	Air	TO-15	
200-12429-7DL	SSV-13	T	Air	TO-15	
200-12429-8	SSV-16	T	Air	TO-15	
200-12429-9	SSV-15	T	Air	TO-15	
200-12429-10	SSV-14	T	Air	TO-15	
200-12429-11	SSV-17	T	Air	TO-15	

Report Basis

T = Total

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Laboratory Chronicle

Lab ID: 200-12429-1

Client ID: AMB-2

Sample Date/Time: 08/24/2012 09:59

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-1		200-44227		08/30/2012 03:12	1	TAL BUR	WRD
A:TO15 LL	200-12429-A-1		200-44227		08/30/2012 03:12	1	TAL BUR	WRD

Lab ID: 200-12429-2

Client ID: AMB-3

Sample Date/Time: 08/24/2012 10:02

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-2		200-44227		08/30/2012 04:07	1	TAL BUR	WRD
A:TO15 LL	200-12429-A-2		200-44227		08/30/2012 04:07	1	TAL BUR	WRD

Lab ID: 200-12429-3

Client ID: AMB-4

Sample Date/Time: 08/24/2012 10:05

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-3		200-44227		08/30/2012 05:02	1	TAL BUR	WRD
A:TO15 LL	200-12429-A-3		200-44227		08/30/2012 05:02	1	TAL BUR	WRD

Lab ID: 200-12429-4

Client ID: AMB-5

Sample Date/Time: 08/24/2012 10:06

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-4		200-44227		08/30/2012 11:22	4	TAL BUR	WRD
A:TO15 LL	200-12429-A-4		200-44227		08/30/2012 11:22	4	TAL BUR	WRD

Lab ID: 200-12429-5

Client ID: SSV-03

Sample Date/Time: 08/23/2012 13:34

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-5		200-44193		08/29/2012 11:42	2	TAL BUR	WRD
A:TO-15	200-12429-A-5		200-44193		08/29/2012 11:42	2	TAL BUR	WRD

US EPA ARCHIVE DOCUMENT



Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Laboratory Chronicle

Lab ID: 200-12429-6

Client ID: SSV-12

Sample Date/Time: 08/23/2012 16:09

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-6		200-44193		08/29/2012 12:34	40	TAL BUR	WRD
A:TO-15	200-12429-A-6		200-44193		08/29/2012 12:34	40	TAL BUR	WRD
P:Summa Canister	200-12429-A-6	DL	200-44193		08/29/2012 13:27	198	TAL BUR	WRD
A:TO-15	200-12429-A-6	DL	200-44193		08/29/2012 13:27	198	TAL BUR	WRD

Lab ID: 200-12429-7

Client ID: SSV-13

Sample Date/Time: 08/23/2012 16:46

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-7		200-44312		08/30/2012 15:34	20	TAL BUR	KLP
A:TO-15	200-12429-A-7		200-44312		08/30/2012 15:34	20	TAL BUR	KLP
P:Summa Canister	200-12429-A-7	DL	200-44312		08/30/2012 16:28	102	TAL BUR	KLP
A:TO-15	200-12429-A-7	DL	200-44312		08/30/2012 16:28	102	TAL BUR	KLP

Lab ID: 200-12429-8

Client ID: SSV-16

Sample Date/Time: 08/23/2012 08:58

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-8		200-44312		08/30/2012 17:22	2	TAL BUR	KLP
A:TO-15	200-12429-A-8		200-44312		08/30/2012 17:22	2	TAL BUR	KLP

Lab ID: 200-12429-9

Client ID: SSV-15

Sample Date/Time: 08/23/2012 11:28

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-9		200-44312		08/30/2012 18:15	2	TAL BUR	KLP
A:TO-15	200-12429-A-9		200-44312		08/30/2012 18:15	2	TAL BUR	KLP

Lab ID: 200-12429-10

Client ID: SSV-14

Sample Date/Time: 08/23/2012 11:53

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-10		200-44312		08/30/2012 19:08	2	TAL BUR	KLP
A:TO-15	200-12429-A-10		200-44312		08/30/2012 19:08	2	TAL BUR	KLP

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12429-1

Laboratory Chronicle

Lab ID: 200-12429-11

Client ID: SSV-17

Sample Date/Time: 08/23/2012 09:31

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12429-A-11		200-44312		08/30/2012 20:02	2	TAL BUR	KLP
A:TO-15	200-12429-A-11		200-44312		08/30/2012 20:02	2	TAL BUR	KLP

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-44193/4		200-44193		08/28/2012 19:51	1	TAL BUR	WRD
A:TO-15	MB 200-44193/4		200-44193		08/28/2012 19:51	1	TAL BUR	WRD
P:Summa Canister	MB 200-44312/4		200-44312		08/30/2012 11:08	1	TAL BUR	KLP
A:TO-15	MB 200-44312/4		200-44312		08/30/2012 11:08	1	TAL BUR	KLP
P:Summa Canister	MB 200-44227/4		200-44227		08/29/2012 17:16	1	TAL BUR	WRD
A:TO15 LL	MB 200-44227/4		200-44227		08/29/2012 17:16	1	TAL BUR	WRD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-44193/3		200-44193		08/28/2012 18:58	1	TAL BUR	WRD
A:TO-15	LCS 200-44193/3		200-44193		08/28/2012 18:58	1	TAL BUR	WRD
P:Summa Canister	LCS 200-44312/3		200-44312		08/30/2012 10:15	1	TAL BUR	KLP
A:TO-15	LCS 200-44312/3		200-44312		08/30/2012 10:15	1	TAL BUR	KLP
P:Summa Canister	LCS 200-44227/3		200-44227		08/29/2012 16:22	1	TAL BUR	WRD
A:TO15 LL	LCS 200-44227/3		200-44227		08/29/2012 16:22	1	TAL BUR	WRD

Lab References:

TAL BUR = TestAmerica Burlington

US EPA ARCHIVE DOCUMENT

# Certification Summary

Client: Burns & McDonnell  
 Project/Site: PKI/26682-3.20.20 - Air

TestAmerica Job ID: 200-12429-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACCLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method T015 Low Level

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Volatile Organic Compounds - Low  
level (GC/MS) by Method TO 15

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: eevz003.d  
 Lab ID: LCS 200-44227/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.187	93	70-130	
1,1-Dichloroethene	0.200	0.210	105	70-130	
trans-1,2-Dichloroethene	0.200	0.185	93	70-130	
cis-1,2-Dichloroethene	0.200	0.183	91	70-130	
Trichloroethene	0.200	0.168	84	70-130	
Tetrachloroethene	0.200	0.146	73	70-130	

US EPA ARCHIVE DOCUMENT

# 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.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevz004.d Lab Sample ID: MB 200-44227/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: E.i Date Analyzed: 08/29/2012 17:16  
 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 200-44227/3	eevz003.d	08/29/2012 16:22
AMB-2	200-12429-1	eevz015.d	08/30/2012 03:12
AMB-3	200-12429-2	eevz016.d	08/30/2012 04:07
AMB-4	200-12429-3	eevz017.d	08/30/2012 05:02
AMB-5	200-12429-4	eevz024.d	08/30/2012 11:22

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eev001.d BFB Injection Date: 05/07/2012  
 Instrument ID: E.i BFB Injection Time: 13:39  
 Analysis Batch No.: 38293

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.5	
75	30.0 - 66.0% of mass 95	48.1	
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	0.4	(0.4) 1
174	50.0 - 120.0% of mass 95	92.4	
175	4.0 - 9.0 % of mass 174	6.1	(6.6) 1
176	93.0 - 101.0% of mass 174	88.9	(96.1) 1
177	5.0 - 9.0% of mass 176	5.6	(6.3) 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 200-38293/3	eev003.d	05/07/2012	15:17
	IC 200-38293/4	eev004.d	05/07/2012	16:11
	IC 200-38293/5	eev005.d	05/07/2012	17:05
	IC 200-38293/6	eev006.d	05/07/2012	17:58
	ICIS 200-38293/7	eev007.d	05/07/2012	18:52
	IC 200-38293/8	eev008.d	05/07/2012	19:46
	IC 200-38293/9	eev009.d	05/07/2012	20:40
	IC 200-38293/10	eev010.d	05/07/2012	21:34
	IC 200-38293/11	eev011.d	05/07/2012	22:29
	IC 200-38293/12	eev012.d	05/07/2012	23:23
	ICV 200-38293/14	eev014.d	05/08/2012	01:12

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevz001.d BFB Injection Date: 08/29/2012  
 Instrument ID: E.i BFB Injection Time: 13:17  
 Analysis Batch No.: 44227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	17.2	
75	30.0 - 66.0% of mass 95	48.9	
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	0.4	(0.5) 1
174	50.0 - 120.0% of mass 95	82.0	
175	4.0 - 9.0 % of mass 174	5.6	(6.8) 1
176	93.0 - 101.0% of mass 174	80.2	(97.8) 1
177	5.0 - 9.0% of mass 176	5.4	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44227/2	eevz002.d	08/29/2012	15:28
	LCS 200-44227/3	eevz003.d	08/29/2012	16:22
	MB 200-44227/4	eevz004.d	08/29/2012	17:16
AMB-2	200-12429-1	eevz015.d	08/30/2012	03:12
AMB-3	200-12429-2	eevz016.d	08/30/2012	04:07
AMB-4	200-12429-3	eevz017.d	08/30/2012	05:02
AMB-5	200-12429-4	eevz024.d	08/30/2012	11:22

US EPA ARCHIVE DOCUMENT



FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-38293/7 Date Analyzed: 05/07/2012 18:52  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eev007.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	389908	9.97	1797832	11.41	1556233	15.53
UPPER LIMIT	545871	10.30	2516965	11.74	2178726	15.86
LOWER LIMIT	233945	9.64	1078699	11.08	933740	15.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-38293/14	481465	9.97	2242763	11.41	1959687	15.53

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44227/2 Date Analyzed: 08/29/2012 15:28  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eevz002.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	569772	9.95	2666806	11.40	2286741	15.52	
UPPER LIMIT	797681	10.28	3733528	11.73	3201437	15.85	
LOWER LIMIT	341863	9.62	1600084	11.07	1372045	15.19	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44227/3	512849	9.95	2353512	11.40	2120123	15.51	
MB 200-44227/4	406891	9.95	2271295	11.40	1469151	15.52	
200-12429-1	AMB-2	559956	9.96	2657842	11.40	2302171	15.52
200-12429-2	AMB-3	589244	9.96	2764851	11.40	2437026	15.52
200-12429-3	AMB-4	622916	9.95	2919451	11.40	2611040	15.52
200-12429-4	AMB-5	611044	9.95	2868022	11.40	2457085	15.52

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO15 LL

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-2 Lab Sample ID: 200-12429-1  
 Matrix: Air Lab File ID: eevz015.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 09:59  
 Sample wt/vol: 500(mL) Date Analyzed: 08/30/2012 03:12  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.028		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.024		0.010	0.010

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-2 Lab Sample ID: 200-12429-1  
 Matrix: Air Lab File ID: eevz015.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 09:59  
 Sample wt/vol: 500(mL) Date Analyzed: 08/30/2012 03:12  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.15		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.16		0.068	0.068

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-3 Lab Sample ID: 200-12429-2  
 Matrix: Air Lab File ID: eevz016.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 10:02  
 Sample wt/vol: 500(mL) Date Analyzed: 08/30/2012 04:07  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.017		0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.017		0.010	0.010
79-01-6	Trichloroethene	131.39	0.046		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.023		0.010	0.010

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-3 Lab Sample ID: 200-12429-2  
 Matrix: Air Lab File ID: eevz016.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 10:02  
 Sample wt/vol: 500(mL) Date Analyzed: 08/30/2012 04:07  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.069		0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.069		0.040	0.040
79-01-6	Trichloroethene	131.39	0.25		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.15		0.068	0.068

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-4 Lab Sample ID: 200-12429-3  
 Matrix: Air Lab File ID: eevz017.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 10:05  
 Sample wt/vol: 500(mL) Date Analyzed: 08/30/2012 05:02  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.030		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.025		0.010	0.010

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-4 Lab Sample ID: 200-12429-3  
 Matrix: Air Lab File ID: eevz017.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 10:05  
 Sample wt/vol: 500(mL) Date Analyzed: 08/30/2012 05:02  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.16		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.17		0.068	0.068

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-5 Lab Sample ID: 200-12429-4  
 Matrix: Air Lab File ID: eevz024.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 10:06  
 Sample wt/vol: 125(mL) Date Analyzed: 08/30/2012 11:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.080	U	0.080	0.080
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	165.83	0.040	U	0.040	0.040

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: AMB-5 Lab Sample ID: 200-12429-4  
 Matrix: Air Lab File ID: eevz024.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 10:06  
 Sample wt/vol: 125(mL) Date Analyzed: 08/30/2012 11:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 4  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.16	U	0.16	0.16
156-60-5	trans-1,2-Dichloroethene	96.94	0.16	U	0.16	0.16
156-59-2	cis-1,2-Dichloroethene	96.94	0.16	U	0.16	0.16
540-59-0	1,2-Dichloroethene, Total	96.94	0.16	U	0.16	0.16
79-01-6	Trichloroethene	131.39	0.21	U	0.21	0.21
127-18-4	Tetrachloroethene	165.83	0.27	U	0.27	0.27

US EPA ARCHIVE DOCUMENT

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-38293/3	eev003.d
Level 2	IC 200-38293/4	eev004.d
Level 3	IC 200-38293/5	eev005.d
Level 4	IC 200-38293/6	eev006.d
Level 5	ICIS 200-38293/7	eev007.d
Level 6	IC 200-38293/8	eev008.d
Level 7	IC 200-38293/9	eev009.d
Level 8	IC 200-38293/10	eev010.d
Level 9	IC 200-38293/11	eev011.d
Level 10	IC 200-38293/12	eev012.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	LVL 9	LVL 10												
Dichlorodifluoromethane	1.9436 1.6614	1.6731 +++++	1.9990 1.6133	1.6276 +++++	1.6416 +++++	Ave	1.7371				9.3		30.0				
1,2-Dichlorotetrafluoroethane	1.9404 1.4320	1.4443 +++++	1.8031 1.4094	1.4184 +++++	1.3849 +++++	Ave	1.5475				14.6		30.0				
Chloromethane	+++++ 0.2969	+++++ 0.2825	+++++ 0.2922	0.3460 0.2834	0.3215 0.2814	Ave	0.3006				8.1		30.0				
Vinyl chloride	+++++ 0.3675	0.4081 +++++	0.4993 0.3693	0.3602 +++++	0.3633 +++++	Ave	0.3946				13.7		30.0				
1,3-Butadiene	+++++ 0.2401	0.2644 +++++	0.3253 0.2387	0.2679 +++++	0.2533 +++++	Ave	0.2650				12.1		30.0				
Bromomethane	+++++ 0.4584	0.5018 +++++	0.6976 0.4626	0.5089 +++++	0.4862 +++++	Ave	0.5193				17.3		30.0				
Bromoethene (Vinyl Bromide)	+++++ 0.5546	0.5432 +++++	0.6996 0.5582	0.5809 +++++	0.5492 +++++	Ave	0.5810				10.2		30.0				
Chloroethane	+++++ 0.1924	0.2334 +++++	0.2750 0.1969	0.2324 +++++	0.2046 +++++	Ave	0.2224				14.0		30.0				
Trichlorofluoromethane	2.9085 2.1036	2.1355 +++++	2.6548 2.0460	2.0871 +++++	2.0748 +++++	Ave	2.2872				15.2		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.3316	+++++ +++++	1.7443 1.3816	1.3859 +++++	1.3531 +++++	Ave	1.4393				11.9		30.0				
1,1-Dichloroethene	0.7258 0.5937	0.6408 +++++	0.7922 0.6184	0.6123 +++++	0.5840 +++++	Ave	0.6525				11.9		30.0				
3-Chloropropene	+++++ 0.5338	0.7974 +++++	0.7779 0.5879	0.6198 +++++	0.5739 +++++	Ave	0.6484				17.2		30.0				
Methylene Chloride	+++++ 0.6812	+++++ 0.6482	+++++ 0.6765	0.9114 0.6088	0.8512 0.6109	Ave	0.7126				16.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

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 9	LVL 10												
trans-1,2-Dichloroethene	1.1921 0.8902	0.9862 ++++	1.1430 0.9210	0.9101 ++++	0.9229 ++++	Ave		0.9951			12.3		30.0				
Methyl tert-butyl ether	1.7019 1.4203	1.4331 ++++	1.8746 1.6693	1.3256 ++++	1.5380 ++++	Ave		1.5661			12.3		30.0				
n-Hexane	++++ 0.8198	1.0771 ++++	1.1659 0.9002	0.8668 ++++	0.8725 ++++	Ave		0.9504			14.5		30.0				
1,1-Dichloroethane	1.3420 0.9799	1.1142 ++++	1.2654 1.0532	1.0503 ++++	1.0535 ++++	Ave		1.1226			11.7		30.0				
cis-1,2-Dichloroethene	0.7596 0.5199	0.5905 ++++	0.6629 0.5854	0.5775 ++++	0.5509 ++++	Ave		0.6067			13.2		30.0				
1,2-Dichloroethane	++++ 0.1597	0.1667 ++++	0.2183 0.1796	0.1695 ++++	0.1773 ++++	Ave		0.1785			11.7		30.0				
Chloroform	1.9071 1.2756	1.4032 ++++	1.5880 1.3941	1.3084 ++++	1.3645 ++++	Ave		1.4630			15.0		30.0				
Cyclohexane	0.2486 0.1772	0.2011 ++++	0.2429 0.1869	0.1933 ++++	0.1874 ++++	Ave		0.2053			13.9		30.0				
1,1,1-Trichloroethane	0.4915 0.3511	0.3757 ++++	0.4482 0.3619	0.3645 ++++	0.3794 ++++	Ave		0.3961			13.3		30.0				
Carbon tetrachloride	0.5174 0.4208	0.4138 ++++	0.5264 0.4235	0.4277 ++++	0.4336 ++++	Ave		0.4519			10.7		30.0				
2,2,4-Trimethylpentane	0.7323 0.4796	0.5736 ++++	0.6460 0.5217	0.5199 ++++	0.5329 ++++	Ave		0.5723			15.4		30.0				
Benzene	0.5676 0.3012	0.3896 ++++	0.4308 0.3386	0.3252 ++++	0.3495 ++++	Ave		0.3861			23.5		30.0				
1,2-Dichloropropane	++++ 0.0956	0.1048 ++++	0.1276 0.1132	0.0960 ++++	0.1107 ++++	Ave		0.1080			11.2		30.0				
n-Heptane	0.2669 0.1562	0.1961 ++++	0.2382 0.1776	0.1761 ++++	0.1947 ++++	Ave		0.2008			19.2		30.0				
Trichloroethene	0.2397 0.1579	0.1880 ++++	0.1944 0.1729	0.1654 ++++	0.1807 ++++	Ave		0.1856			14.6		30.0				
Bromodichloromethane	0.3126 0.2557	0.2484 ++++	0.3040 0.2940	0.2484 ++++	0.2780 ++++	Ave		0.2773			9.7		30.0				
cis-1,3-Dichloropropene	0.1840 0.1391	0.1384 ++++	0.1714 0.1701	0.1360 ++++	0.1602 ++++	Ave		0.1570			12.3		30.0				
Toluene	0.3328 0.2239	0.2505 ++++	0.3107 0.2710	0.2303 ++++	0.2582 ++++	Ave		0.2682			15.1		30.0				
trans-1,3-Dichloropropene	0.1407 0.1275	0.1148 ++++	0.1328 0.1610	0.1258 ++++	0.1506 ++++	Ave		0.1362			11.6		30.0				
1,1,2-Trichloroethane	0.1260 0.1104	0.1092 ++++	0.1400 0.1349	0.1156 ++++	0.1282 ++++	Ave		0.1235			9.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Tetrachloroethene	0.4218	0.3118	0.3631	0.2875	0.2922	Ave	0.3176				17.7		30.0				
	0.2556	++++	0.2912	++++	++++												
Dibromochloromethane	0.2919	0.2243	0.3067	0.2402	0.2718	Ave	0.2723				12.5		30.0				
	0.2567	++++	0.3145	++++	++++												
1,2-Dibromoethane	0.2297	0.1781	0.2212	0.1808	0.2139	Ave	0.2076				11.8		30.0				
	0.1904	++++	0.2390	++++	++++												
Chlorobenzene	++++	++++	0.4135	0.3120	0.3551	Ave	0.3326				13.1		30.0				
	0.3111	0.3244	0.3672	0.2787	0.2989												
Ethylbenzene	0.4753	0.3923	0.4813	0.4313	0.5178	Ave	0.4750				12.6		30.0				
	0.4498	++++	0.5769	++++	++++												
m-Xylene & p-Xylene	0.1304	0.1144	0.1468	0.1445	0.1884	Ave	0.1589				22.5		30.0				
	0.1696	++++	0.2181	++++	++++												
o-Xylene	0.1246	0.1081	0.1317	0.1363	0.1748	Ave	0.1497				24.0		30.0				
	0.1579	++++	0.2142	++++	++++												
Bromoform	0.1744	0.1449	0.1750	0.1664	0.2020	Ave	0.1841				17.0		30.0				
	0.1825	++++	0.2436	++++	++++												
1,1,2,2-Tetrachloroethane	0.1599	0.1253	0.1651	0.1314	0.1706	Ave	0.1429				15.9		30.0				
	0.1100	++++	0.1383	++++	++++												
4-Ethyltoluene	0.2617	0.2523	0.3084	0.2493	0.3357	Ave	0.2841				17.2		30.0				
	0.2267	++++	0.3547	++++	++++												
1,3,5-Trimethylbenzene	++++	0.1948	0.2563	0.2041	0.2755	Ave	0.2308				17.1		30.0				
	0.1874	++++	0.2664	++++	++++												
1,2,4-Trimethylbenzene	++++	++++	0.2480	0.1946	0.2542	Ave	0.2215				15.8		30.0				
	0.1641	0.1970	0.2283	0.2181	0.2675												

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-38293/3	eev003.d
Level 2	IC 200-38293/4	eev004.d
Level 3	IC 200-38293/5	eev005.d
Level 4	IC 200-38293/6	eev006.d
Level 5	ICIS 200-38293/7	eev007.d
Level 6	IC 200-38293/8	eev008.d
Level 7	IC 200-38293/9	eev009.d
Level 8	IC 200-38293/10	eev010.d
Level 9	IC 200-38293/11	eev011.d
Level 10	IC 200-38293/12	eev012.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE						CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	
Dichlorodifluoromethane	BCM	Ave	3618	6998	12952	32420	64008	0.0100	0.0200	0.0400	0.100	0.200	
			166204	+++++	335296	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,2-Dichlorotetrafluoroethane	BCM	Ave	3612	6041	11683	28254	53999	0.0100	0.0200	0.0400	0.100	0.200	
			143251	+++++	292910	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Chloromethane	BCM	Ave	+++++	+++++	+++++	6893	12535	+++++	+++++	+++++	0.100	0.200	
			29704	43712	60729	98653	132526	0.500	0.750	1.00	1.50	2.00	
Vinyl chloride	BCM	Ave	+++++	1707	3235	7175	14167	+++++	0.0200	0.0400	0.100	0.200	
			36764	+++++	76744	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,3-Butadiene	BCM	Ave	+++++	1106	2108	5336	9875	+++++	0.0200	0.0400	0.100	0.200	
			24023	+++++	49602	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Bromomethane	BCM	Ave	+++++	2099	4520	10136	18958	+++++	0.0200	0.0400	0.100	0.200	
			45859	+++++	96142	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Bromoethene (Vinyl Bromide)	BCM	Ave	+++++	2272	4533	11571	21413	+++++	0.0200	0.0400	0.100	0.200	
			55482	+++++	116018	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Chloroethane	BCM	Ave	+++++	976	1782	4629	7976	+++++	0.0200	0.0400	0.100	0.200	
			19250	+++++	40926	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Trichlorofluoromethane	BCM	Ave	5414	8932	17201	41574	80898	0.0100	0.0200	0.0400	0.100	0.200	
			210439	+++++	425214	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	+++++	+++++	11302	27606	52758	+++++	+++++	0.0400	0.100	0.200	
			133209	+++++	287138	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
1,1-Dichloroethene	BCM	Ave	1351	2680	5133	12197	22770	0.0100	0.0200	0.0400	0.100	0.200	
			59395	+++++	128518	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
3-Chloropropene	BCM	Ave	+++++	3335	5040	12345	22375	+++++	0.0200	0.0400	0.100	0.200	
			53398	+++++	122183	+++++	+++++	0.500	+++++	1.00	+++++	+++++	
Methylene Chloride	BCM	Ave	+++++	+++++	+++++	18155	33188	+++++	+++++	+++++	0.100	0.200	
			68149	100280	140601	211926	287639	0.500	0.750	1.00	1.50	2.00	
trans-1,2-Dichloroethene	BCM	Ave	2219	4125	7406	18128	35983	0.0100	0.0200	0.0400	0.100	0.200	
			89051	+++++	191400	+++++	+++++	0.500	+++++	1.00	+++++	+++++	

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Methyl tert-butyl ether	BCM	Ave	3168 142086	5994 ++++	12146 346926	26404 ++++	59967 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
n-Hexane	BCM	Ave	++++ 82013	4505 ++++	7554 187077	17266 ++++	34019 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1-Dichloroethane	BCM	Ave	2498 98025	4660 ++++	8199 218876	20921 ++++	41076 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
cis-1,2-Dichloroethene	BCM	Ave	1414 52010	2470 ++++	4295 121659	11504 ++++	21481 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2-Dichloroethane	DFB	Ave	++++ 75237	3280 ++++	6679 179646	16008 ++++	31879 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Chloroform	BCM	Ave	3550 127607	5869 ++++	10289 289725	26063 ++++	53201 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Cyclohexane	DFB	Ave	2180 83466	3957 ++++	7431 186930	18256 ++++	33685 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,1-Trichloroethane	DFB	Ave	4310 165428	7392 ++++	13709 361982	34425 ++++	68203 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Carbon tetrachloride	DFB	Ave	4537 198249	8140 ++++	16101 423548	40391 ++++	77953 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
2,2,4-Trimethylpentane	DFB	Ave	6421 225957	11285 ++++	19762 521828	49107 ++++	95805 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Benzene	DFB	Ave	4977 141918	7664 ++++	13179 338611	30711 ++++	62838 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2-Dichloropropane	DFB	Ave	++++ 45027	2061 ++++	3904 113173	9066 ++++	19902 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
n-Heptane	DFB	Ave	2340 73585	3857 ++++	7285 177670	16629 ++++	34999 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Trichloroethene	DFB	Ave	2102 74367	3698 ++++	5946 172944	15623 ++++	32481 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Bromodichloromethane	DFB	Ave	2741 120465	4886 ++++	9299 294045	23458 ++++	49983 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
cis-1,3-Dichloropropene	DFB	Ave	1613 65513	2723 ++++	5242 170124	12846 ++++	28803 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Toluene	CBZ	Ave	2458 92194	4175 ++++	7844 237864	18314 ++++	40175 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
trans-1,3-Dichloropropene	DFB	Ave	1234 60073	2258 ++++	4061 161015	11877 ++++	27068 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,2-Trichloroethane	CBZ	Ave	931 45481	1820 ++++	3536 118460	9191 ++++	19947 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Tetrachloroethene	CBZ	Ave	3116 105267	5197 ++++	9167 255619	22865 ++++	45478 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Dibromochloromethane	CBZ	Ave	2156 105711	3739 ++++	7745 276035	19103 ++++	42294 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dibromoethane	CBZ	Ave	1697 78431	2968 ++++	5585 209756	14376 ++++	33286 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Chlorobenzene	CBZ	Ave	++++ 128122	++++ 216597	10442 322333	24811 393580	55257 583736	++++ 0.500	++++ 0.750	0.0400 1.00	0.100 1.50	0.200 2.00
Ethylbenzene	CBZ	Ave	3511 185245	6539 ++++	12152 506417	34297 ++++	80579 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
m-Xylene & p-Xylene	CBZ	Ave	1927 139686	3813 ++++	7411 382855	22983 ++++	58643 ++++	0.0200 1.00	0.0400 ++++	0.0800 2.00	0.200 ++++	0.400 ++++
o-Xylene	CBZ	Ave	920 65023	1802 ++++	3325 188056	10842 ++++	27200 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Bromoform	CBZ	Ave	1288 75155	2416 ++++	4419 213860	13232 ++++	31442 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,2,2-Tetrachloroethane	CBZ	Ave	1181 45295	2089 ++++	4169 121418	10450 ++++	26551 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
4-Ethyltoluene	CBZ	Ave	1933 93381	4206 ++++	7787 311360	19824 ++++	52243 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 77169	3248 ++++	6471 233840	16234 ++++	42868 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 67563	++++ 131535	6261 200372	15474 308004	39567 522269	++++ 0.500	++++ 0.750	0.0400 1.00	0.100 1.50	0.200 2.00

Curve Type Legend:  
 Ave = Average ISTD



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-38293/14 Calibration Date: 05/08/2012 01:12  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eev014.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
Dichlorodifluoromethane	Ave	1.737	1.512		0.174	0.200	-13.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.390		0.179	0.200	-10.1	30.0
Chloromethane	Ave	0.3006	0.3313		0.220	0.200	10.2	30.0
Vinyl chloride	Ave	0.3946	0.3702		0.187	0.200	-6.2	30.0
1,3-Butadiene	Ave	0.2650	0.2582		0.194	0.200	-2.5	30.0
Bromomethane	Ave	0.5193	0.4447		0.171	0.200	-14.4	30.0
Chloroethane	Ave	0.2224	0.2115		0.190	0.200	-4.9	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.6047		0.208	0.200	4.1	30.0
Trichlorofluoromethane	Ave	2.287	2.047		0.179	0.200	-10.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.524		0.211	0.200	5.9	30.0
1,1-Dichloroethene	Ave	0.6525	0.7097		0.217	0.200	8.8	30.0
3-Chloropropene	Ave	0.6484	0.6000		0.185	0.200	-7.5	30.0
Methylene Chloride	Ave	0.7126	0.8038		0.225	0.200	12.8	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9575		0.192	0.200	-3.8	30.0
Methyl tert-butyl ether	Ave	1.566	1.662		0.212	0.200	6.1	30.0
n-Hexane	Ave	0.9504	0.9212		0.193	0.200	-3.1	30.0
1,1-Dichloroethane	Ave	1.123	1.035		0.184	0.200	-7.8	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.6057		0.199	0.200	-0.2	30.0
Chloroform	Ave	1.463	1.342		0.183	0.200	-8.3	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3566		0.180	0.200	-10.0	30.0
Cyclohexane	Ave	0.2053	0.2008		0.195	0.200	-2.2	30.0
Carbon tetrachloride	Ave	0.4519	0.4049		0.179	0.200	-10.4	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5537		0.193	0.200	-3.2	30.0
Benzene	Ave	0.3861	0.3602		0.186	0.200	-6.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1709		0.191	0.200	-4.3	30.0
n-Heptane	Ave	0.2008	0.1950		0.194	0.200	-2.9	30.0
Trichloroethene	Ave	0.1856	0.1760		0.189	0.200	-5.1	30.0
1,2-Dichloropropane	Ave	0.1080	0.1127		0.208	0.200	4.3	30.0
Bromodichloromethane	Ave	0.2773	0.2741		0.197	0.200	-1.1	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1574		0.200	0.200	0.3	30.0
Toluene	Ave	0.2682	0.2776		0.207	0.200	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1430		0.210	0.200	5.0	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1234		0.199	0.200	-0.0	30.0
Tetrachloroethene	Ave	0.3176	0.2750		0.173	0.200	-13.4	30.0
Dibromochloromethane	Ave	0.2723	0.2743		0.201	0.200	0.7	30.0
1,2-Dibromoethane	Ave	0.2076	0.2023		0.194	0.200	-2.6	30.0
Chlorobenzene	Ave	0.3326	0.3556		0.213	0.200	6.9	30.0
Ethylbenzene	Ave	0.4750	0.5302		0.223	0.200	11.6	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1904		0.478	0.399	19.8	30.0
o-Xylene	Ave	0.1497	0.1735		0.231	0.200	16.0	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-38293/14 Calibration Date: 05/08/2012 01:12  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eev014.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
Bromoform	Ave	0.1841	0.1877		0.203	0.200	1.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1545		0.216	0.200	8.0	30.0
4-Ethyltoluene	Ave	0.2841	0.3397		0.239	0.200	19.6	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2693		0.233	0.200	16.7	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.2518		0.227	0.200	13.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44227/2 Calibration Date: 08/29/2012 15:28  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevz002.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
Dichlorodifluoromethane	Ave	1.737	1.605		0.185	0.200	-7.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.421		0.184	0.200	-8.2	30.0
Chloromethane	Ave	0.3006	0.3357		0.224	0.200	11.7	30.0
Vinyl chloride	Ave	0.3946	0.3858		0.196	0.200	-2.2	30.0
1,3-Butadiene	Ave	0.2650	0.2613		0.198	0.200	-1.4	30.0
Bromomethane	Ave	0.5193	0.4579		0.177	0.200	-11.8	30.0
Chloroethane	Ave	0.2224	0.2227		0.201	0.200	0.1	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.5844		0.202	0.200	0.6	30.0
Trichlorofluoromethane	Ave	2.287	2.159		0.189	0.200	-5.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.434		0.200	0.200	-0.4	30.0
1,1-Dichloroethene	Ave	0.6525	0.6537		0.201	0.200	0.2	30.0
3-Chloropropene	Ave	0.6484	0.6859		0.212	0.200	5.8	30.0
Methylene Chloride	Ave	0.7126	0.8325		0.234	0.200	16.8	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9748		0.196	0.200	-2.0	30.0
Methyl tert-butyl ether	Ave	1.566	1.499		0.192	0.200	-4.3	30.0
n-Hexane	Ave	0.9504	0.9667		0.204	0.200	1.7	30.0
1,1-Dichloroethane	Ave	1.123	1.128		0.201	0.200	0.5	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.6037		0.199	0.200	-0.5	30.0
Chloroform	Ave	1.463	1.412		0.193	0.200	-3.5	30.0
Cyclohexane	Ave	0.2053	0.1860		0.182	0.200	-9.4	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3628		0.184	0.200	-8.4	30.0
Carbon tetrachloride	Ave	0.4519	0.3908		0.173	0.200	-13.5	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5721		0.200	0.200	-0.0	30.0
Benzene	Ave	0.3861	0.3717		0.193	0.200	-3.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1773		0.199	0.200	-0.7	30.0
n-Heptane	Ave	0.2008	0.2022		0.202	0.200	0.7	30.0
Trichloroethene	Ave	0.1856	0.1815		0.196	0.200	-2.2	30.0
1,2-Dichloropropane	Ave	0.1080	0.1156		0.215	0.200	7.1	30.0
Bromodichloromethane	Ave	0.2773	0.2593		0.187	0.200	-6.5	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1547		0.197	0.200	-1.5	30.0
Toluene	Ave	0.2682	0.2582		0.193	0.200	-3.7	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1455		0.214	0.200	6.8	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1232		0.200	0.200	-0.3	30.0
Tetrachloroethene	Ave	0.3176	0.2776		0.175	0.200	-12.6	30.0
Dibromochloromethane	Ave	0.2723	0.2505		0.184	0.200	-8.0	30.0
1,2-Dibromoethane	Ave	0.2076	0.2150		0.208	0.200	3.5	30.0
Chlorobenzene	Ave	0.3326	0.3479		0.210	0.200	4.6	30.0
Ethylbenzene	Ave	0.4750	0.4893		0.207	0.200	3.0	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1687		0.426	0.401	6.2	30.0
o-Xylene	Ave	0.1497	0.1607		0.215	0.200	7.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44227/2 Calibration Date: 08/29/2012 15:28  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevz002.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
Bromoform	Ave	0.1841	0.1761		0.192	0.200	-4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1848		0.259	0.200	29.3	30.0
4-Ethyltoluene	Ave	0.2841	0.3237		0.228	0.200	13.9	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2519		0.219	0.200	9.2	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.2050		0.186	0.200	-7.4	30.0

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44227/4  
 Matrix: Air Lab File ID: eevz004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 17:16  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.010	U	0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.010	U	0.010	0.010

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44227/4  
 Matrix: Air Lab File ID: eevz004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 17:16  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.054	U	0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.068	U	0.068	0.068

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44227/3  
 Matrix: Air Lab File ID: eevz003.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 16:22  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.187		0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.210		0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.185		0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.183		0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.368		0.010	0.010
79-01-6	Trichloroethene	131.39	0.168		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.146		0.010	0.010

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AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 05/07/2012 13:39

Analysis Batch Number: 38293 End Date: 05/08/2012 12:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-38293/1		05/07/2012 13:39	1	eev001.d	RTX-624 0.32 (mm)
VIBLK 200-38293/2		05/07/2012 14:23	1		RTX-624 0.32 (mm)
IC 200-38293/3		05/07/2012 15:17	1	eev003.d	RTX-624 0.32 (mm)
IC 200-38293/4		05/07/2012 16:11	1	eev004.d	RTX-624 0.32 (mm)
IC 200-38293/5		05/07/2012 17:05	1	eev005.d	RTX-624 0.32 (mm)
IC 200-38293/6		05/07/2012 17:58	1	eev006.d	RTX-624 0.32 (mm)
ICIS 200-38293/7		05/07/2012 18:52	1	eev007.d	RTX-624 0.32 (mm)
IC 200-38293/8		05/07/2012 19:46	1	eev008.d	RTX-624 0.32 (mm)
IC 200-38293/9		05/07/2012 20:40	1	eev009.d	RTX-624 0.32 (mm)
IC 200-38293/10		05/07/2012 21:34	1	eev010.d	RTX-624 0.32 (mm)
IC 200-38293/11		05/07/2012 22:29	1	eev011.d	RTX-624 0.32 (mm)
IC 200-38293/12		05/07/2012 23:23	1	eev012.d	RTX-624 0.32 (mm)
VIBLK 200-38293/13		05/08/2012 00:18	1		RTX-624 0.32 (mm)
ICV 200-38293/14		05/08/2012 01:12	1	eev014.d	RTX-624 0.32 (mm)
VIBLK 200-38293/15		05/08/2012 02:07	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 03:01	1		RTX-624 0.32 (mm)
VIBLK 200-38293/17		05/08/2012 03:56	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 04:50	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 05:44	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 06:39	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 07:33	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 08:27	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 09:21	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 10:16	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 11:11	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 12:05	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 12:59	4		RTX-624 0.32 (mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 08/29/2012 13:17

Analysis Batch Number: 44227 End Date: 08/30/2012 13:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44227/1		08/29/2012 13:17	1	eevz001.d	RTX-624 0.32 (mm)
CCVIS 200-44227/2		08/29/2012 15:28	1	eevz002.d	RTX-624 0.32 (mm)
LCS 200-44227/3		08/29/2012 16:22	1	eevz003.d	RTX-624 0.32 (mm)
MB 200-44227/4		08/29/2012 17:16	1	eevz004.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 18:11	6.33		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 19:05	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 19:59	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 20:53	5.15		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 21:47	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 22:41	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 23:35	10		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 00:29	5.15		RTX-624 0.32 (mm)
VIBLK 200-44227/13		08/30/2012 01:24	1		RTX-624 0.32 (mm)
VIBLK 200-44227/14		08/30/2012 02:18	1		RTX-624 0.32 (mm)
200-12429-1	AMB-2	08/30/2012 03:12	1	eevz015.d	RTX-624 0.32 (mm)
200-12429-2	AMB-3	08/30/2012 04:07	1	eevz016.d	RTX-624 0.32 (mm)
200-12429-3	AMB-4	08/30/2012 05:02	1	eevz017.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 05:56	10		RTX-624 0.32 (mm)
VIBLK 200-44227/19		08/30/2012 06:51	1		RTX-624 0.32 (mm)
VIBLK 200-44227/20		08/30/2012 07:45	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 08:40	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 09:34	10		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 10:28	10		RTX-624 0.32 (mm)
200-12429-4	AMB-5	08/30/2012 11:22	4	eevz024.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 12:16	2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 13:10	2.99		RTX-624 0.32 (mm)

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Analyst
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**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)

Vol = Volume of SUMMA canister at atmospheric pressure

# Method T015

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Volatile Organic Compounds (GC/MS)  
by Method T015

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: ggrj003.d  
 Lab ID: LCS 200-44193/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	10.0	7.43	74	70-130	
1,1-Dichloroethene	10.0	9.25	93	70-130	
trans-1,2-Dichloroethene	10.0	8.45	85	70-130	
cis-1,2-Dichloroethene	10.0	8.90	89	70-130	
Trichloroethene	10.0	8.48	85	70-130	
Tetrachloroethene	10.0	9.11	91	70-130	

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# 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.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: ckz1003.d  
 Lab ID: LCS 200-44312/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	10.0	9.46	95	70-130	
1,1-Dichloroethene	10.0	10.9	109	70-130	
trans-1,2-Dichloroethene	10.0	9.84	98	70-130	
cis-1,2-Dichloroethene	10.0	9.89	99	70-130	
Trichloroethene	10.0	9.73	97	70-130	
Tetrachloroethene	10.0	9.76	98	70-130	

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# 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.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggrj004.d Lab Sample ID: MB 200-44193/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: G.i Date Analyzed: 08/28/2012 19:51  
 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 200-44193/3	ggrj003.d	08/28/2012 18:58
SSV-03	200-12429-5	ggrj022.d	08/29/2012 11:42
SSV-12	200-12429-6	ggrj023.d	08/29/2012 12:34
SSV-12 DL	200-12429-6 DL	ggrj024.d	08/29/2012 13:27

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FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz1004.d Lab Sample ID: MB 200-44312/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: C.i Date Analyzed: 08/30/2012 11:08  
 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 200-44312/3	ckz1003.d	08/30/2012 10:15
SSV-13	200-12429-7	ckz1009.d	08/30/2012 15:34
SSV-13 DL	200-12429-7 DL	ckz1010.d	08/30/2012 16:28
SSV-16	200-12429-8	ckz1011.d	08/30/2012 17:22
SSV-15	200-12429-9	ckz1012.d	08/30/2012 18:15
SSV-14	200-12429-10	ckz1013.d	08/30/2012 19:08
SSV-17	200-12429-11	ckz1014.d	08/30/2012 20:02

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz001.d BFB Injection Date: 08/14/2012  
 Instrument ID: C.i BFB Injection Time: 16:28  
 Analysis Batch No.: 43490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.2	
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	0.3	(0.3) 1
174	50.0 - 120.0% of mass 95	80.2	
175	4.0 - 9.0 % of mass 174	5.6	(6.9) 1
176	93.0 - 101.0% of mass 174	77.7	(96.9) 1
177	5.0 - 9.0% of mass 176	5.1	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-43490/3	ckz003.d	08/14/2012	18:13
	IC 200-43490/4	ckz004.d	08/14/2012	19:07
	IC 200-43490/5	ckz005.d	08/14/2012	20:00
	IC 200-43490/6	ckz006.d	08/14/2012	20:53
	IC 200-43490/8	ckz008.d	08/14/2012	22:41
	IC 200-43490/9	ckz009.d	08/14/2012	23:34
	IC 200-43490/10	ckz010.d	08/15/2012	00:28
	ICIS 200-43490/15	ckz015.d	08/15/2012	08:24
	ICV 200-43490/18	ckz018.d	08/15/2012	11:09

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz1001.d BFB Injection Date: 08/30/2012  
 Instrument ID: C.i BFB Injection Time: 08:28  
 Analysis Batch No.: 44312

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.3	
75	30.0 - 66.0% of mass 95	48.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.6	
173	Less than 2.0% of mass 174	0.3	(0.4) 1
174	50.0 - 120.0% of mass 95	83.2	
175	4.0 - 9.0 % of mass 174	5.7	(6.9) 1
176	93.0 - 101.0% of mass 174	80.7	(97.0) 1
177	5.0 - 9.0% of mass 176	5.3	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44312/2	ckz1002.d	08/30/2012	09:21
	LCS 200-44312/3	ckz1003.d	08/30/2012	10:15
	MB 200-44312/4	ckz1004.d	08/30/2012	11:08
SSV-13	200-12429-7	ckz1009.d	08/30/2012	15:34
SSV-13 DL	200-12429-7 DL	ckz1010.d	08/30/2012	16:28
SSV-16	200-12429-8	ckz1011.d	08/30/2012	17:22
SSV-15	200-12429-9	ckz1012.d	08/30/2012	18:15
SSV-14	200-12429-10	ckz1013.d	08/30/2012	19:08
SSV-17	200-12429-11	ckz1014.d	08/30/2012	20:02

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggr001.d BFB Injection Date: 08/15/2012  
 Instrument ID: G.i BFB Injection Time: 17:30  
 Analysis Batch No.: 43550

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	15.5	
75	30.0 - 66.0% of mass 95	44.9	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.7	
173	Less than 2.0% of mass 174	0.5	(0.5) 1
174	50.0 - 120.0% of mass 95	108.2	
175	4.0 - 9.0 % of mass 174	7.4	(6.9) 1
176	93.0 - 101.0% of mass 174	104.7	(96.7) 1
177	5.0 - 9.0% of mass 176	6.5	(6.2) 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 200-43550/3	ggr003.d	08/15/2012	20:58
	IC 200-43550/4	ggr004.d	08/15/2012	21:51
	IC 200-43550/5	ggr005.d	08/15/2012	22:43
	IC 200-43550/6	ggr006.d	08/15/2012	23:36
	ICIS 200-43550/7	ggr007.d	08/16/2012	00:28
	IC 200-43550/8	ggr008.d	08/16/2012	01:21
	IC 200-43550/9	ggr009.d	08/16/2012	02:14
	IC 200-43550/10	ggr010.d	08/16/2012	03:07
	ICV 200-43550/12	ggr012.d	08/16/2012	04:52

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ggrj001.d BFB Injection Date: 08/28/2012  
 Instrument ID: G.i BFB Injection Time: 17:11  
 Analysis Batch No.: 44193

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.3	
75	30.0 - 66.0% of mass 95	46.9	
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	0.5	(0.5) 1
174	50.0 - 120.0% of mass 95	110.6	
175	4.0 - 9.0 % of mass 174	7.6	(6.9) 1
176	93.0 - 101.0% of mass 174	107.0	(96.7) 1
177	5.0 - 9.0% of mass 176	7.2	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44193/2	ggrj002.d	08/28/2012	18:05
	LCS 200-44193/3	ggrj003.d	08/28/2012	18:58
	MB 200-44193/4	ggrj004.d	08/28/2012	19:51
SSV-03	200-12429-5	ggrj022.d	08/29/2012	11:42
SSV-12	200-12429-6	ggrj023.d	08/29/2012	12:34
SSV-12 DL	200-12429-6 DL	ggrj024.d	08/29/2012	13:27

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-43490/15 Date Analyzed: 08/15/2012 08:24  
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ckz015.d Heated Purge: (Y/N) N  
 Calibration ID: 17120

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	419299	12.10	2338098	13.92	2179074	19.45
UPPER LIMIT	587019	12.43	3273337	14.25	3050704	19.78
LOWER LIMIT	251579	11.77	1402859	13.59	1307444	19.12
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-43490/18	394482	12.10	2173520	13.93	1992042	19.45

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44312/2 Date Analyzed: 08/30/2012 09:21  
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ckz1002.d Heated Purge: (Y/N) N  
 Calibration ID: 17120

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	320458	12.07	1795096	13.90	1662495	19.43		
UPPER LIMIT	448641	12.40	2513134	14.23	2327493	19.76		
LOWER LIMIT	192275	11.74	1077058	13.57	997497	19.10		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 200-44312/3			340335	12.07	1891740	13.90	1780021	19.43
MB 200-44312/4			321076	12.07	1849902	13.90	1611594	19.43
200-12429-7	SSV-13		270933	12.07	1501149	13.90	1353129	19.43
200-12429-7 DL	SSV-13 DL		269836	12.08	1508555	13.90	1353269	19.43
200-12429-8	SSV-16		273121	12.07	1512235	13.90	1383992	19.43
200-12429-9	SSV-15		273924	12.08	1532859	13.90	1459895	19.43
200-12429-10	SSV-14		275339	12.07	1551459	13.90	1478852	19.43
200-12429-11	SSV-17		305664	12.07	1713840	13.90	1551700	19.43

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

US EPA ARCHIVE DOCUMENT

FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-43550/7 Date Analyzed: 08/16/2012 00:28  
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ggr007.d Heated Purge: (Y/N) N  
 Calibration ID: 17165

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	614826	11.73	2523223	13.56	2233183	19.06
UPPER LIMIT	860756	12.06	3532512	13.89	3126456	19.39
LOWER LIMIT	368896	11.40	1513934	13.23	1339910	18.73
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-43550/12	658359	11.73	2835664	13.56	2451344	19.06

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44193/2 Date Analyzed: 08/28/2012 18:05  
 Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ggrj002.d Heated Purge: (Y/N) N  
 Calibration ID: 17165

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	544123	11.72	2135651	13.54	1955282	19.04	
UPPER LIMIT	761772	12.05	2989911	13.87	2737395	19.37	
LOWER LIMIT	326474	11.39	1281391	13.21	1173169	18.71	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44193/3	541960	11.72	2220311	13.54	2022435	19.04	
MB 200-44193/4	476870	11.71	2179655	13.54	1605465	19.04	
200-12429-5	SSV-03	493411	11.72	1907522	13.54	1621755	19.04
200-12429-6	SSV-12	479466	11.72	2092682	13.55	1710980	19.05
200-12429-6 DL	SSV-12 DL	462728	11.72	2062771	13.54	1654556	19.04

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-03 Lab Sample ID: 200-12429-5  
 Matrix: Air Lab File ID: ggrj022.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 13:34  
 Sample wt/vol: 100(mL) Date Analyzed: 08/29/2012 11:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	1.3		0.40	0.40
127-18-4	Tetrachloroethene	165.83	0.40	U	0.40	0.40

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-03 Lab Sample ID: 200-12429-5  
 Matrix: Air Lab File ID: ggrj022.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 13:34  
 Sample wt/vol: 100(mL) Date Analyzed: 08/29/2012 11:42  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	6.9		2.1	2.1
127-18-4	Tetrachloroethene	165.83	2.7	U	2.7	2.7

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-12 Lab Sample ID: 200-12429-6  
 Matrix: Air Lab File ID: ggrj023.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:09  
 Sample wt/vol: 198(mL) Date Analyzed: 08/29/2012 12:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	8.0	U	8.0	8.0
75-35-4	1,1-Dichloroethene	96.94	8.0	U	8.0	8.0
156-60-5	trans-1,2-Dichloroethene	96.94	200		8.0	8.0
156-59-2	cis-1,2-Dichloroethene	96.94	5900	E	8.0	8.0
540-59-0	1,2-Dichloroethene, Total	96.94	6100		8.0	8.0
79-01-6	Trichloroethene	131.39	8100	E	8.0	8.0
127-18-4	Tetrachloroethene	165.83	120		8.0	8.0

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-12 Lab Sample ID: 200-12429-6  
 Matrix: Air Lab File ID: ggrj023.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:09  
 Sample wt/vol: 198(mL) Date Analyzed: 08/29/2012 12:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 40  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	20	U	20	20
75-35-4	1,1-Dichloroethene	96.94	32	U	32	32
156-60-5	trans-1,2-Dichloroethene	96.94	810		32	32
156-59-2	cis-1,2-Dichloroethene	96.94	24000	E	32	32
540-59-0	1,2-Dichloroethene, Total	96.94	24000		32	32
79-01-6	Trichloroethene	131.39	43000	E	43	43
127-18-4	Tetrachloroethene	165.83	830		54	54

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-12 DL Lab Sample ID: 200-12429-6 DL  
 Matrix: Air Lab File ID: ggrj024.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:09  
 Sample wt/vol: 40 (mL) Date Analyzed: 08/29/2012 13:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 198  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	40	U	40	40
75-35-4	<i>1,1-Dichloroethene</i>	96.94	40	U	40	40
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	200	D	40	40
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	5400	D	40	40
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	5600	D	40	40
79-01-6	<i>Trichloroethene</i>	131.39	7300	D	40	40
127-18-4	<i>Tetrachloroethene</i>	165.83	100	D	40	40

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-12 DL Lab Sample ID: 200-12429-6 DL  
 Matrix: Air Lab File ID: ggrj024.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:09  
 Sample wt/vol: 40 (mL) Date Analyzed: 08/29/2012 13:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 198  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	100	U	100	100
75-35-4	<i>1,1-Dichloroethene</i>	96.94	160	U	160	160
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	780	D	160	160
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	21000	D	160	160
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	22000	D	160	160
79-01-6	<i>Trichloroethene</i>	131.39	39000	D	210	210
127-18-4	<i>Tetrachloroethene</i>	165.83	690	D	270	270

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-13 Lab Sample ID: 200-12429-7  
 Matrix: Air Lab File ID: ckz1009.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:46  
 Sample wt/vol: 164 (mL) Date Analyzed: 08/30/2012 15:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	4.0	U	4.0	4.0
75-35-4	1,1-Dichloroethene	96.94	4.0	U	4.0	4.0
156-60-5	trans-1,2-Dichloroethene	96.94	87		4.0	4.0
156-59-2	cis-1,2-Dichloroethene	96.94	3000	E	4.0	4.0
540-59-0	1,2-Dichloroethene, Total	96.94	3100		4.0	4.0
79-01-6	Trichloroethene	131.39	3900	E	4.0	4.0
127-18-4	Tetrachloroethene	165.83	69		4.0	4.0

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-13 Lab Sample ID: 200-12429-7  
 Matrix: Air Lab File ID: ckz1009.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:46  
 Sample wt/vol: 164 (mL) Date Analyzed: 08/30/2012 15:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	10	U	10	10
75-35-4	1,1-Dichloroethene	96.94	16	U	16	16
156-60-5	trans-1,2-Dichloroethene	96.94	340		16	16
156-59-2	cis-1,2-Dichloroethene	96.94	12000	E	16	16
540-59-0	1,2-Dichloroethene, Total	96.94	12000		16	16
79-01-6	Trichloroethene	131.39	21000	E	21	21
127-18-4	Tetrachloroethene	165.83	470		27	27

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-13 DL Lab Sample ID: 200-12429-7 DL  
 Matrix: Air Lab File ID: ckz1010.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:46  
 Sample wt/vol: 32 (mL) Date Analyzed: 08/30/2012 16:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 102  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	20	U	20	20
75-35-4	<i>1,1-Dichloroethene</i>	96.94	20	U	20	20
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	97	D	20	20
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	3200	D	20	20
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	3300	D	20	20
79-01-6	<i>Trichloroethene</i>	131.39	3900	D	20	20
127-18-4	<i>Tetrachloroethene</i>	165.83	78	D	20	20

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-13 DL Lab Sample ID: 200-12429-7 DL  
 Matrix: Air Lab File ID: ckz1010.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 16:46  
 Sample wt/vol: 32 (mL) Date Analyzed: 08/30/2012 16:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 102  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	52	U	52	52
75-35-4	<i>1,1-Dichloroethene</i>	96.94	81	U	81	81
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	380	D	81	81
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	13000	D	81	81
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	13000	D	81	81
79-01-6	<i>Trichloroethene</i>	131.39	21000	D	110	110
127-18-4	<i>Tetrachloroethene</i>	165.83	530	D	140	140

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-16 Lab Sample ID: 200-12429-8  
 Matrix: Air Lab File ID: ckz1011.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 08:58  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 17:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	1.9		0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	1.9		0.40	0.40
79-01-6	Trichloroethene	131.39	18		0.40	0.40
127-18-4	Tetrachloroethene	165.83	3.5		0.40	0.40

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-16 Lab Sample ID: 200-12429-8  
 Matrix: Air Lab File ID: ckz1011.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 08:58  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 17:22  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	7.7		1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	7.7		1.6	1.6
79-01-6	Trichloroethene	131.39	95		2.1	2.1
127-18-4	Tetrachloroethene	165.83	24		2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-15 Lab Sample ID: 200-12429-9  
 Matrix: Air Lab File ID: ckz1012.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 11:28  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 18:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.49		0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.49		0.40	0.40
79-01-6	Trichloroethene	131.39	2.4		0.40	0.40
127-18-4	Tetrachloroethene	165.83	0.68		0.40	0.40

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AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-15 Lab Sample ID: 200-12429-9  
 Matrix: Air Lab File ID: ckz1012.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 11:28  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 18:15  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	2.0		1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	2.0		1.6	1.6
79-01-6	Trichloroethene	131.39	13		2.1	2.1
127-18-4	Tetrachloroethene	165.83	4.6		2.7	2.7

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Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-14 Lab Sample ID: 200-12429-10  
 Matrix: Air Lab File ID: ckz1013.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 11:53  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 19:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	0.40	U	0.40	0.40
127-18-4	Tetrachloroethene	165.83	3.0		0.40	0.40

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-14 Lab Sample ID: 200-12429-10  
 Matrix: Air Lab File ID: ckz1013.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 11:53  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 19:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	2.1	U	2.1	2.1
127-18-4	Tetrachloroethene	165.83	20		2.7	2.7

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-17 Lab Sample ID: 200-12429-11  
 Matrix: Air Lab File ID: ckz1014.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 09:31  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	0.40	U	0.40	0.40
127-18-4	Tetrachloroethene	165.83	3.0		0.40	0.40

US EPA ARCHIVE DOCUMENT



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SSV-17 Lab Sample ID: 200-12429-11  
 Matrix: Air Lab File ID: ckz1014.d  
 Analysis Method: TO-15 Date Collected: 08/23/2012 09:31  
 Sample wt/vol: 100(mL) Date Analyzed: 08/30/2012 20:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	1.6	U	1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	1.6	U	1.6	1.6
79-01-6	Trichloroethene	131.39	2.1	U	2.1	2.1
127-18-4	Tetrachloroethene	165.83	21		2.7	2.7

US EPA ARCHIVE DOCUMENT

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-43490/3	ic 376683	ckz003.d
Level 2	IC 200-43490/4	ic 376683	ckz004.d
Level 3	IC 200-43490/5	ic 376702	ckz005.d
Level 4	IC 200-43490/6	ic 370619	ckz006.d
Level 5	ICIS 200-43490/15	icis 370604	ckz015.d
Level 6	IC 200-43490/8	ic 370603	ckz008.d
Level 7	IC 200-43490/9	ic 370601	ckz009.d
Level 8	IC 200-43490/10	ic 370600	ckz010.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	+++++	+++++	0.7402	0.7173	0.6751	Ave		0.6484			11.8		30.0				
	0.6295	0.5874	0.5409														
Dichlorodifluoromethane	+++++	+++++	3.0739	2.9563	2.6940	Ave		2.7457			8.4		30.0				
	2.6990	2.5969	2.4542														
Freon 22	+++++	+++++	1.6383	1.5074	1.3768	Ave		1.3837			12.1		30.0				
	1.3440	1.2570	1.1785														
1,2-Dichlorotetrafluoroethane	+++++	3.0326	2.8534	2.9152	2.7473	Ave		2.7977			5.6		30.0				
	2.7953	2.6891	2.5507														
Chloromethane	+++++	+++++	0.8814	0.8254	0.7767	Ave		0.7657			10.5		30.0				
	0.7464	0.7035	0.6607														
n-Butane	+++++	+++++	1.4925	1.4833	1.4088	Ave		1.3543			10.0		30.0				
	1.3441	1.2436	1.1536														
1,3-Butadiene	+++++	0.7256	0.7225	0.7244	0.6932	Ave		0.6877			6.3		30.0				
	0.6853	0.6504	0.6123														
Acrolein	+++++	+++++	+++++	0.2879	0.2873	Ave		0.2829			4.7		30.0				
	0.2971	0.2805	0.2615														
Vinyl chloride	1.0102	1.0270	0.9551	0.9878	0.9461	Ave		0.9506			6.3		30.0				
	0.9389	0.8943	0.8450														
Bromomethane	+++++	0.9619	0.9221	0.9265	0.9057	Ave		0.9137			3.3		30.0				
	0.9116	0.9068	0.8611														
Chloroethane	+++++	+++++	0.4834	0.5044	0.4835	Ave		0.4767			4.5		30.0				
	0.4839	0.4636	0.4416														
Isopentane	+++++	1.1459	1.1259	1.1009	1.0165	Ave		1.0314			9.4		30.0				
	0.9958	0.9497	0.8853														
Bromoethene (Vinyl Bromide)	+++++	1.0397	0.9656	0.9718	0.9601	Ave		0.9751			3.2		30.0				
	0.9780	0.9713	0.9395														
Trichlorofluoromethane	+++++	3.1272	3.1002	3.0854	2.7689	Ave		2.8957			7.2		30.0				
	2.8528	2.7322	2.6033														

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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-Pentane	++++ 1.5774	++++ 1.4922	1.6768 1.3928	1.6987	1.6075	Ave		1.5742			7.3		30.0				
Ethanol	++++ 0.2349	++++ 0.2316	0.2485 0.2026	0.2536	0.2352	Ave		0.2344			7.6		30.0				
Ethyl ether	++++ 0.6185	0.6091 0.5900	0.6031 0.5425	0.6261	0.6064	Ave		0.5994			4.6		30.0				
Freon TF	++++ 1.9955	2.1282 1.9539	2.1940 1.8839	2.0570	1.9605	Ave		2.0247			5.3		30.0				
tert-Butyl alcohol	++++ 1.1778	++++ 1.1068	++++ 1.0645	1.3202	1.2143	Ave		1.1767			8.4		30.0				
1,1-Dichloroethene	++++ 0.9453	1.0305 0.9249	0.9672 0.9063	0.9532	0.9286	Ave		0.9508			4.2		30.0				
Acetone	++++ 1.1122	++++ 1.0173	++++ 0.9194	1.2438	1.2129	Ave		1.1011			12.3		30.0				
Carbon disulfide	++++ 2.6871	++++ 2.6462	2.6890 2.5684	2.7553	2.6692	Ave		2.6692			2.3		30.0				
Isopropyl alcohol	++++ 0.7860	++++ 0.7474	++++ 0.6592	0.8805	0.7949	Ave		0.7736			10.4		30.0				
3-Chloropropene	++++ 1.1328	1.2061 1.0721	1.1458 1.0169	1.1852	1.1160	Ave		1.1250			5.8		30.0				
Acetonitrile	++++ 0.4931	++++ 0.4128	++++ 0.4198	0.4870	0.4530	Ave		0.4531			8.2		30.0				
Methylene Chloride	++++ 0.9029	++++ 0.8597	1.1583 0.8039	0.9990	0.9121	Ave		0.9393			13.3		30.0				
Methyl tert-butyl ether	++++ 2.7062	2.7875 2.5808	2.7311 2.4088	2.7209	2.5927	Ave		2.6468			4.9		30.0				
trans-1,2-Dichloroethene	++++ 1.4050	1.4665 1.3364	1.4347 1.2690	1.5032	1.3799	Ave		1.3992			5.7		30.0				
Acrylonitrile	++++ 0.5646	++++ 0.5362	0.5065 0.5142	0.5690	0.5509	Ave		0.5402			4.8		30.0				
Ethyl acetate	++++ 0.0857	++++ 0.0841	++++ 0.0804	0.0829	0.0808	Ave		0.0828			2.7		30.0				
n-Hexane	++++ 1.5099	1.6008 1.4542	1.5311 1.3839	1.5967	1.5169	Ave		1.5134			5.1		30.0				
1,1-Dichloroethane	++++ 1.7734	1.9531 1.7040	1.8624 1.6262	1.9013	1.7708	Ave		1.7987			6.4		30.0				
Vinyl acetate	++++ 1.9832	++++ 1.8707	++++ 1.7205	1.9754	1.9144	Ave		1.8928			5.6		30.0				
cis-1,2-Dichloroethene	++++ 1.0870	++++ 1.0750	1.1730 1.0427	1.1081	1.0766	Ave		1.1192			7.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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														
Methyl Ethyl Ketone	++++ 0.4322	++++ 0.4192	0.4298 0.3859	0.4274	0.4157	Ave		0.4184			4.1		30.0				
Tetrahydrofuran	++++ 0.1606	++++ 0.1518	++++ 0.1529	0.1659	0.1549	Ave		0.1572			3.8		30.0				
Chloroform	++++ 2.2140	2.3865 2.1319	2.3238 2.0362	2.3519	2.1930	Ave		2.2339			5.7		30.0				
1,1,1-Trichloroethane	++++ 0.4499	0.4704 0.4352	0.4665 0.4611	0.4759	0.4363	Ave		0.4565			3.6		30.0				
Cyclohexane	++++ 0.2802	0.2903 0.2756	0.2698 0.2948	0.2807	0.2720	Ave		0.2805			3.3		30.0				
Benzene	++++ 0.5802	0.6433 0.5730	0.5902 0.6008	0.5895	0.5688	Ave		0.5923			4.2		30.0				
2,2,4-Trimethylpentane	++++ 0.8737	0.9119 0.8496	0.8673 0.8870	0.9116	0.8732	Ave		0.8821			2.6		30.0				
1,2-Dichloroethane	++++ 0.2617	0.2786 0.2500	0.2746 0.2581	0.2845	0.2573	Ave		0.2664			4.8		30.0				
n-Heptane	++++ 0.3082	0.3322 0.2952	0.3226 0.3039	0.3325	0.3119	Ave		0.3152			4.5		30.0				
n-Butanol	++++ 0.0546	++++ 0.0544	++++ 0.0619	0.0604	0.0580	Ave		0.0579			5.8		30.0				
Carbon tetrachloride	0.5151 0.4828	0.4602 0.4675	0.4634 0.5042	0.5007	0.4614	Ave		0.4819			4.6		30.0				
1,2-Dichloropropane	++++ 0.1966	0.2083 0.1933	0.1892 0.1958	0.2037	0.1917	Ave		0.1969			3.4		30.0				
Methyl methacrylate	++++ 0.1803	++++ 0.1783	0.1331 0.1864	0.1644	0.1664	Ave		0.1681			11.4		30.0				
1,4-Dioxane	++++ 0.0712	++++ 0.0699	++++ 0.0667	0.0745	0.0684	Ave		0.0702			4.3		30.0				
Dibromomethane	++++ 0.2615	0.2443 0.2624	0.2296 0.2869	0.2527	0.2476	Ave		0.2550			7.0		30.0				
Bromodichloromethane	++++ 0.4495	0.4062 0.4369	0.4072 0.4516	0.4639	0.4358	Ave		0.4359			5.1		30.0				
cis-1,3-Dichloropropene	++++ 0.3324	0.3100 0.3254	0.3061 0.3372	0.3336	0.3202	Ave		0.3236			3.7		30.0				
Methyl isobutyl ketone	++++ 0.2985	++++ 0.2797	++++ 0.2847	0.2594	0.2942	Ave		0.2796			5.9		30.0				
Trichloroethene	0.2875 0.2737	0.2880 0.2723	0.2663 0.2930	0.2792	0.2700	Ave		0.2787			3.5		30.0				
Toluene	++++ 0.4835	0.4815 0.4825	0.4540 0.4965	0.4943	0.4634	Ave		0.4794			3.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	++++ 0.4230	0.4381 0.4028	0.4328 0.4014	0.4562	0.4227	Ave		0.4253			4.6		30.0				
trans-1,3-Dichloropropene	++++ 0.3369	0.3008 0.3272	0.2874 0.3415	0.3314	0.3197	Ave		0.3207			6.2		30.0				
1,1,2-Trichloroethane	++++ 0.2181	0.2203 0.2156	0.2095 0.2188	0.2245	0.2072	Ave		0.2163			2.8		30.0				
Tetrachloroethene	++++ 0.4576	0.4531 0.4611	0.4152 0.4946	0.4561	0.4262	Ave		0.4520			5.7		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2980	++++ 0.2840	0.2417 0.2949	0.2986	0.2583	Ave		0.2793			8.5		30.0				
Dibromochloromethane	++++ 0.5178	0.3838 0.5183	0.3915 0.5408	0.5062	0.4712	Ave		0.4757			13.4		30.0				
1,2-Dibromoethane	++++ 0.4414	0.3774 0.4387	0.3681 0.4527	0.4415	0.4088	Ave		0.4184			8.1		30.0				
Chlorobenzene	++++ 0.7086	0.6912 0.7037	0.6536 0.7341	0.7082	0.6592	Ave		0.6941			4.1		30.0				
Ethylbenzene	++++ 1.0414	0.9953 1.0249	0.9260 1.0839	1.0198	0.9674	Ave		1.0084			5.1		30.0				
n-Nonane	++++ 0.4527	0.4381 0.4333	0.4084 0.4449	0.4659	0.4292	Ave		0.4389			4.2		30.0				
m,p-Xylene	++++ 0.4453	0.3947 0.4335	0.3717 0.4599	0.4270	0.4087	Ave		0.4201			7.2		30.0				
Xylene, o-	++++ 0.4315	0.3697 0.4221	0.3672 0.4420	0.4158	0.3987	Ave		0.4067			7.2		30.0				
Styrene	++++ 0.6545	0.4186 0.6503	0.4137 0.7079	0.5892	0.5921	Ave		0.5752			20.2		30.0				
Bromoform	++++ 0.5234	0.3362 0.5184	0.3369 0.5577	0.4886	0.4670	Ave		0.4612			19.5		30.0				
Cumene	++++ 1.2449	1.0564 1.2187	1.0303 1.3045	1.1942	1.1407	Ave		1.1699			8.5		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.5594	0.4939 0.5417	0.4842 0.5651	0.5497	0.5110	Ave		0.5293			6.2		30.0				
1,2,3-Trichloropropane	++++ 0.4464	++++ 0.4251	0.3994 0.4337	0.4504	0.4130	Ave		0.4280			4.6		30.0				
n-Propylbenzene	++++ 1.4270	1.0943 1.3800	1.1149 1.4648	1.3660	1.3033	Ave		1.3072			11.3		30.0				
4-Ethyltoluene	++++ 1.2731	0.8881 1.2219	0.9346 1.2697	1.1957	1.1452	Ave		1.1326			13.9		30.0				
n-Decane	++++ 0.5415	++++ 0.4921	0.4309 0.4565	0.5550	0.5122	Ave		0.4980			9.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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														
2-Chlorotoluene	++++ 1.0237	0.9527 0.9776	0.8777 0.9916	1.0255	0.9416	Ave		0.9700			5.3		30.0				
1,3,5-Trimethylbenzene	++++ 1.0725	0.8271 1.0376	0.8267 1.1237	1.0221	0.9668	Ave		0.9824			11.8		30.0				
Alpha Methyl Styrene	++++ 0.5424	0.2741 0.5371	0.2919 0.5934	0.4862	0.4835	Ave		0.4584			27.4		30.0				
tert-Butylbenzene	++++ 1.0660	0.8471 1.0342	0.8697 1.1094	1.0242	0.9632	Ave		0.9877			10.0		30.0				
1,2,4-Trimethylbenzene	++++ 1.0623	0.7512 1.0193	0.7523 1.1125	1.0052	0.9499	Ave		0.9504			15.2		30.0				
sec-Butylbenzene	++++ 1.5249	1.1189 1.4757	1.1564 1.5976	1.4642	1.3776	Ave		1.3879			13.2		30.0				
4-Isopropyltoluene	++++ 1.3417	0.8530 1.2959	0.9130 1.4136	1.2477	1.1837	Ave		1.1784			18.2		30.0				
1,3-Dichlorobenzene	++++ 0.7348	0.5588 0.7132	0.5407 0.8024	0.6860	0.6499	Ave		0.6694			14.1		30.0				
1,4-Dichlorobenzene	++++ 0.7123	0.5378 0.6954	0.5185 0.7879	0.6573	0.6287	Ave		0.6483			14.8		30.0				
Benzyl chloride	++++ 0.8213	0.5097 0.7993	0.4763 0.9010	0.7128	0.7009	Ave		0.7030			22.6		30.0				
n-Butylbenzene	++++ 1.0531	0.5909 0.9990	0.6111 1.0906	0.9419	0.9124	Ave		0.8856			23.0		30.0				
n-Undecane	++++ 0.5151	++++ 0.4433	++++ 0.5222	0.4232	0.4044	Ave		0.4617			11.7		30.0				
1,2-Dichlorobenzene	++++ 0.6881	0.5127 0.6634	0.5013 0.7433	0.6447	0.6044	Ave		0.6226			14.4		30.0				
n-Dodecane	++++ 0.2706	++++ 0.2045	++++ 0.3015	0.2987	0.2448	Ave		0.2640			15.3		30.0				
1,2,4-Trichlorobenzene	++++ 0.2947	++++ 0.2692	0.2232 0.3580	0.2901	0.2335	Ave		0.2781			17.5		30.0				
Hexachlorobutadiene	++++ 0.4011	0.2962 0.3751	0.2901 0.4087	0.3822	0.3391	Ave		0.3561			13.6		30.0				
Naphthalene	++++ 0.5959	++++ 0.5080	0.4051 0.7434	0.5750	0.4881	Ave		0.5526			20.9		30.0				
1,2,3-Trichlorobenzene	++++ 0.2299	0.1800 0.2069	0.1848 0.2710	0.2348	0.1940	Ave		0.2145			15.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43490/3	ckz003.d
Level 2	IC 200-43490/4	ckz004.d
Level 3	IC 200-43490/5	ckz005.d
Level 4	IC 200-43490/6	ckz006.d
Level 5	ICIS 200-43490/15	ckz015.d
Level 6	IC 200-43490/8	ckz008.d
Level 7	IC 200-43490/9	ckz009.d
Level 8	IC 200-43490/10	ckz010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Propylene	BCM	Ave	++++ 393566	++++ 536817	13040 1063874	127364	283059	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	++++ 1687394	++++ 2373061	54156 4827325	524916	1129574	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	++++ 840224	++++ 1148663	28864 2318035	267662	577311	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1747564	22087 2457381	50270 5017164	517629	1151940	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	++++ 466665	++++ 642841	15529 1299651	146550	325650	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	++++ 840295	++++ 1136393	26294 2269233	263379	590701	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	++++ 428417	5285 594316	12729 1204410	128623	290672	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	++++ 185751	++++ 256344	++++ 514321	51122	120447	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1524 586988	7480 817235	16827 1662035	175401	396687	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	++++ 569942	7006 828656	16245 1693799	164502	379780	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	++++ 302553	++++ 423646	8516 868559	89570	202738	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	++++ 622540	8346 867881	19836 1741356	195472	426219	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 611435	7572 887634	17011 1848007	172557	402574	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	++++ 1783517	22776 2496706	54619 5120772	547854	1161002	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	++++ 986163	++++ 1363630	29541 2739630	301630	674005	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	
Ethanol	BCM	Ave	++++ 195794	++++ 423287	43784 996073	90045	147960	++++ 20.0	++++ 40.0	5.00 100	10.0	15.0	
Ethyl ether	BCM	Ave	++++ 386647	++++ 539131	10625 1067046	111163	254247	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Freon TF	BCM	Ave	++++ 1247555	++++ 1785541	38654 3705569	365245	822029	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
tert-Butyl alcohol	BCM	Ave	++++ 736341	++++ 1011441	++++ 2093862	234420	509154	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
1,1-Dichloroethene	BCM	Ave	++++ 590970	++++ 845197	7505 17040 1782667	169248	389344	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acetone	BCM	Ave	++++ 695313	++++ 929650	++++ 1808368	220856	508549	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
Carbon disulfide	BCM	Ave	++++ 1679909	++++ 2418141	47375 5052073	489232	1119189	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Isopropyl alcohol	BCM	Ave	++++ 491424	++++ 682994	++++ 1296594	156350	333318	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
3-Chloropropene	BCM	Ave	++++ 708216	++++ 979703	8784 20186 2000333	210440	467926	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acetonitrile	BCM	Ave	++++ 308270	++++ 377267	++++ 825669	86464	189950	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
Methylene Chloride	BCM	Ave	++++ 564476	++++ 785574	20407 1581183	177376	382450	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Methyl tert-butyl ether	BCM	Ave	++++ 1691850	++++ 2358384	48116 4738158	483116	1087102	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
trans-1,2-Dichloroethene	BCM	Ave	++++ 878373	++++ 1221256	10681 25276 2496079	266907	578583	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acrylonitrile	BCM	Ave	++++ 352996	++++ 489994	++++ 1011403	8923	101040	230986	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	++++ 53550	++++ 76824	++++ 158228	14712	33878	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
n-Hexane	BCM	Ave	++++ 943974	++++ 1328827	11659 26975 2722223	283502	636047	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
1,1-Dichloroethane	BCM	Ave	++++ 1108709	++++ 1557111	14225 32811 3198805	337595	742485	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Vinyl acetate	BCM	Ave	++++ 1239854	++++ 1709438	++++ 3384215	350751	802692	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
cis-1,2-Dichloroethene	BCM	Ave	++++ 679576	++++ 982350	9262 20666 2051085	196752	451438	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Methyl Ethyl Ketone	BCM	Ave	++++ 270226	++++ 383108	++++ 7573 758972	75894	174301	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Tetrahydrofuran	DFB	Ave	++++ 555906	++++ 761622	++++ 1491236	165101	362068	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	



FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	++++ 1384145	17381 1948138	40941 4005308	417596	919514	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	++++ 1556934	19132 2183499	46194 4498299	473681	1020074	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	++++ 969727	11808 1382842	26715 2875788	279394	636062	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	++++ 2008021	26166 2874734	58442 5861699	586751	1329811	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	++++ 3023710	37093 4262374	85877 8653827	907351	2041604	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	++++ 905678	11331 1254053	27191 2518111	283185	601581	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	++++ 1066712	13511 1481103	31946 2965258	331000	729294	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	++++ 189079	++++ 272944	++++ 604323	60155	135583	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	4394 1670958	18719 2345482	45880 4919166	498385	1078834	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	++++ 680514	8471 969733	18732 1910510	202786	448163	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	++++ 623788	++++ 894560	13183 1818413	163651	388995	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	++++ 246521	++++ 350811	++++ 650303	74196	159944	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	++++ 905001	9939 1316604	22730 2799296	251523	578927	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	++++ 1555426	16523 2191881	40315 4405637	461707	1018972	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	++++ 1150398	12608 1632459	30308 3289522	332086	748632	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl isobutyl ketone	DFB	Ave	++++ 1032913	++++ 1403370	25685 2777113	292876	610844	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2452 947186	11714 1365930	26365 2858818	277869	631256	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	++++ 1532941	17855 2202530	41556 4448120	439755	1009776	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	++++ 1463679	17820 2020913	42856 3915874	454106	988252	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	++++ 1166001	12235 1641621	28452 3332037	329846	747465	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 691388	8167 983941	19172 1959711	199746	451489	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	CBZ	Ave	++++ 1450848	16802 2104727	38008 4431081	405766	928617	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 944792	++++ 1296084	++++ 22126 2641748	265661	562900	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	++++ 1641809	14230 2365702	35839 4844163	450291	1026857	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	++++ 1399518	13995 2002421	33697 4055501	392787	890755	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	++++ 2246719	25629 3211968	59828 6576503	630032	1436363	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	++++ 3302057	36906 4678329	84758 9709309	907186	2107945	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	++++ 1435289	16244 1978008	37379 3985736	414432	935342	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	++++ 2823904	29267 3957139	68046 8239271	759733	1781171	++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	++++ 1368167	13709 1926863	33614 3959827	369852	868813	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	++++ 2075226	15521 2968156	37864 6341806	524148	1290186	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	++++ 1659606	12464 2366238	30836 4995494	434651	1017655	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	++++ 3947303	39171 5562721	94306 11685494	1062326	2485603	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1773677	18312 2472348	44322 5061975	488992	1113422	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	++++ 1415521	++++ 1940206	36558 3884902	400659	899864	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	++++ 4524580	40576 6298984	102048 13121769	1215235	2840068	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	++++ 4036789	32929 5577490	85543 11374226	1063720	2495383	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	++++ 1716815	++++ 2246198	39442 4089282	493744	1116216	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	++++ 3245736	35324 4462218	80335 8882480	912240	2051831	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3400461	30668 4736016	75673 10066067	909268	2106707	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	++++ 1719742	10162 2451434	26719 5316033	432507	1053537	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	++++ 3380018	31409 4720355	79610 9938298	911084	2098797	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	CBZ	Ave	++++ 3368303	27852 4652357	68858 9966136	894230	2069833	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	++++ 4835073	41489 6735894	105849 14311357	1302558	3001987	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	++++ 4254247	31629 5915135	83572 12663046	1109988	2579274	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	++++ 2329856	20720 3255522	49495 7188170	610301	1416167	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	++++ 2258369	19940 3174265	47456 7057943	584758	1369962	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	++++ 2604019	18898 3648254	43600 8071371	634101	1527206	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	++++ 3339168	21909 4559870	55935 9769839	837955	1988185	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	++++ 1633244	++++ 2023452	++++ 4678209	376487	881223	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	++++ 2181647	19010 3027941	45888 6658200	573557	1317115	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	++++ 857889	++++ 933475	++++ 2701195	265689	533363	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 934260	++++ 1228920	20429 3207300	258080	508705	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	++++ 1271862	10984 1712222	26553 3660873	339968	738987	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	++++ 1889409	++++ 2318811	37078 6659792	511479	1063574	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 729064	++++ 6673 944178	16918 2427773	208922	422731	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:

Ave = Average ISTD

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43550/3	ggr003.d
Level 2	IC 200-43550/4	ggr004.d
Level 3	IC 200-43550/5	ggr005.d
Level 4	IC 200-43550/6	ggr006.d
Level 5	ICIS 200-43550/7	ggr007.d
Level 6	IC 200-43550/8	ggr008.d
Level 7	IC 200-43550/9	ggr009.d
Level 8	IC 200-43550/10	ggr010.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	++++ 0.4074	++++ 0.4473	0.4732 0.4016	0.4174	0.4137	Ave		0.4268			6.5		30.0				
Dichlorodifluoromethane	++++ 2.7266	++++ 2.9250	2.8855 2.5988	2.8059	2.8187	Ave		2.7934			4.2		30.0				
Freon 22	++++ 1.1592	++++ 1.2465	1.3194 1.1065	1.2245	1.1993	Ave		1.2093			6.1		30.0				
1,2-Dichlorotetrafluoroethane	++++ 2.5068	2.6499 2.7022	2.6070 2.4140	2.6464	2.5751	Ave		2.5859			3.8		30.0				
Chloromethane	++++ 0.5100	++++ 0.5498	0.5563 0.4937	0.5263	0.5149	Ave		0.5252			4.6		30.0				
n-Butane	++++ 0.8437	++++ 0.9154	0.8958 0.8311	0.8748	0.8616	Ave		0.8704			3.6		30.0				
1,3-Butadiene	++++ 0.4386	0.4728 0.4773	0.4494 0.4268	0.4586	0.4480	Ave		0.4531			4.0		30.0				
Vinyl chloride	1.0783 0.6732	0.7403 0.7324	0.7260 0.6547	0.7021	0.6881	Ave		0.7494			18.2		30.0				
Acrolein	++++ 0.2066	++++ 0.1954	++++ 0.1987	0.1971	0.1984	Ave		0.1992			2.2		30.0				
Bromomethane	++++ 0.9214	0.9655 0.9984	0.9801 0.8789	0.9331	0.9281	Ave		0.9436			4.3		30.0				
Chloroethane	++++ 0.3319	++++ 0.3611	0.3411 0.3247	0.3430	0.3425	Ave		0.3407			3.6		30.0				
Isopentane	++++ 0.6424	0.7323 0.6903	0.7033 0.6216	0.6683	0.6567	Ave		0.6736			5.6		30.0				
Bromoethene (Vinyl Bromide)	++++ 0.9233	0.9861 1.0013	0.9278 0.9151	0.9220	0.9368	Ave		0.9446			3.6		30.0				
Trichlorofluoromethane	++++ 2.7769	3.0250 2.9940	3.0531 2.6852	2.9598	2.8837	Ave		2.9111			4.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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-Pentane	++++ 0.9271	++++ 1.0006	0.9394 0.9127	0.9537	0.9414	Ave		0.9458			3.2		30.0				
Ethanol	++++ 0.1450	++++ 0.1569	0.1462 0.1364	0.1516	0.1360	Ave		0.1454			5.7		30.0				
Ethyl ether	++++ 0.4227	0.3714 0.4080	0.4053 0.4154	0.4223	0.4177	Ave		0.4090			4.4		30.0				
Freon TF	++++ 1.8421	1.8511 2.0303	2.0329 1.8071	1.9201	1.8936	Ave		1.9110			4.7		30.0				
1,1-Dichloroethene	++++ 0.7837	0.9106 0.8561	0.7652 0.7729	0.8101	0.8011	Ave		0.8143			6.4		30.0				
Acetone	++++ 0.9111	++++ 0.8430	++++ 0.8608	0.9724	0.9167	Ave		0.9008			5.7		30.0				
Ethyl acetate	++++ 0.0478	++++ 0.0453	++++ 0.0495	0.0479	0.0465	Ave		0.0474			3.3		30.0				
Carbon disulfide	++++ 2.2400	++++ 2.4175	2.2366 2.1755	2.2871	2.2624	Ave		2.2699			3.6		30.0				
Isopropyl alcohol	++++ 0.6319	++++ 0.6253	++++ 0.5866	0.6465	0.6730	Ave		0.6326			5.0		30.0				
3-Chloropropene	++++ 0.7182	0.7971 0.7689	0.6646 0.7674	0.7664	0.7781	Ave		0.7515			6.0		30.0				
Acetonitrile	++++ 0.3393	++++ 0.3070	++++ 0.2507	0.3003	0.3248	Ave		0.3044			11.1		30.0				
Methylene Chloride	++++ 0.6955	++++ 0.7481	0.8031 0.6651	0.7368	0.7208	Ave		0.7282			6.5		30.0				
tert-Butyl alcohol	++++ 1.1759	++++ 1.1813	++++ 1.1488	1.2205	1.2723	Ave		1.1998			4.0		30.0				
Methyl tert-butyl ether	++++ 2.1979	2.2327 2.0842	2.1234 2.1517	2.2059	2.1852	Ave		2.1687			2.4		30.0				
trans-1,2-Dichloroethene	++++ 1.1067	1.1193 1.2048	1.1389 1.0769	1.1680	1.1390	Ave		1.1362			3.7		30.0				
Acrylonitrile	++++ 0.3685	++++ 0.3444	0.3409 0.3608	0.3587	0.3602	Ave		0.3556			3.0		30.0				
n-Hexane	++++ 0.9428	0.8977 1.0169	0.9129 0.9244	0.9528	0.9495	Ave		0.9424			4.1		30.0				
1,1-Dichloroethane	++++ 1.3651	1.4035 1.4616	1.4202 1.3263	1.4008	1.3894	Ave		1.3953			3.0		30.0				
Vinyl acetate	++++ 1.3438	++++ 1.2348	++++ 1.3601	1.2638	1.2721	Ave		1.2949			4.2		30.0				
cis-1,2-Dichloroethene	++++ 0.8724	1.0745 0.9432	0.9257 0.8711	0.8987	0.8689	Ave		0.9221			7.9		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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														
Methyl Ethyl Ketone	++++ 0.2760	++++ 0.2625	0.2613 0.2831	0.2616	0.2713	Ave		0.2693			3.4		30.0				
Tetrahydrofuran	++++ 0.1296	++++ 0.1495	++++ 0.1277	0.1244	0.1309	Ave		0.1324			7.4		30.0				
Chloroform	++++ 1.9077	1.9781 1.9968	1.9345 1.8392	1.9838	1.9023	Ave		1.9346			2.9		30.0				
n-Butanol	++++ 0.0563	++++ 0.0748	++++ 0.0611	0.0534	0.0626	Ave		0.0616			13.3		30.0				
1,1,1-Trichloroethane	++++ 0.5474	0.5937 0.7185	0.5480 0.5280	0.5570	0.5670	Ave		0.5799			11.1		30.0				
Cyclohexane	++++ 0.2414	0.2458 0.3194	0.2306 0.2392	0.2358	0.2457	Ave		0.2511			12.2		30.0				
Benzene	++++ 0.5160	0.5489 0.6515	0.5191 0.5194	0.5242	0.5174	Ave		0.5424			9.1		30.0				
2,2,4-Trimethylpentane	++++ 0.7158	0.7314 0.9266	0.6806 0.7049	0.7137	0.7192	Ave		0.7417			11.2		30.0				
1,2-Dichloroethane	++++ 0.3001	0.3175 0.3730	0.2906 0.2916	0.3088	0.3022	Ave		0.3120			9.1		30.0				
n-Heptane	++++ 0.2370	0.2342 0.3010	0.2311 0.2341	0.2368	0.2390	Ave		0.2447			10.2		30.0				
Carbon tetrachloride	0.6954 0.6231	0.6515 0.8266	0.6078 0.6028	0.6421	0.6504	Ave		0.6625			10.9		30.0				
1,2-Dichloropropane	++++ 0.1665	0.1628 0.2024	0.1537 0.1651	0.1662	0.1672	Ave		0.1691			9.1		30.0				
Methyl methacrylate	++++ 0.1421	++++ 0.1667	0.0955 0.1495	0.1272	0.1431	Ave		0.1373			17.6		30.0				
1,4-Dioxane	++++ 0.0679	++++ 0.0816	++++ 0.0626	0.0735	0.0763	Ave		0.0724			10.2		30.0				
Dibromomethane	++++ 0.3236	0.3224 0.4115	0.2939 0.3235	0.3165	0.3154	Ave		0.3295			11.4		30.0				
Bromodichloromethane	++++ 0.4853	0.4402 0.6042	0.4329 0.4718	0.4848	0.4825	Ave		0.4860			11.6		30.0				
cis-1,3-Dichloropropene	++++ 0.2751	0.2755 0.3340	0.2363 0.2772	0.2657	0.2760	Ave		0.2771			10.5		30.0				
Trichloroethene	0.3582 0.2969	0.3177 0.3880	0.2898 0.2830	0.2976	0.2985	Ave		0.3162			11.8		30.0				
Methyl isobutyl ketone	++++ 0.2848	++++ 0.3418	0.2160 0.2923	0.2728	0.2887	Ave		0.2827			14.3		30.0				
Toluene	++++ 0.3973	++++ 0.4437	0.3687 0.3962	0.3907	0.4187	Ave		0.4128			8.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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	++++ 0.3146	0.2932 0.3836	0.2812 0.3212	0.3012	0.3154	Ave		0.3158			10.5		30.0				
trans-1,3-Dichloropropene	++++ 0.2735	0.2568 0.3362	0.2432 0.2756	0.2623	0.2745	Ave		0.2746			10.8		30.0				
1,1,2-Trichloroethane	++++ 0.1920	0.2085 0.2286	0.1848 0.1846	0.1884	0.2028	Ave		0.1985			8.1		30.0				
Tetrachloroethene	++++ 0.4476	0.5729 0.5543	0.4828 0.4343	0.4534	0.4682	Ave		0.4877			11.1		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2704	++++ 0.3416	0.2141 0.2685	0.2644	0.3028	Ave		0.2770			15.4		30.0				
n-Dodecane	++++ 0.2194	++++ 0.2070	++++ 0.2169	0.2000	0.2375	Ave		0.2162			6.6		30.0				
Dibromochloromethane	++++ 0.5522	0.4908 0.6697	0.4425 0.5380	0.5237	0.5813	Ave		0.5426			13.2		30.0				
1,2-Dibromoethane	++++ 0.3705	0.3817 0.4428	0.3416 0.3465	0.3690	0.3916	Ave		0.3777			8.9		30.0				
n-Decane	++++ 0.3672	++++ 0.4036	0.2622 0.3883	0.3436	0.3838	Ave		0.3581			14.3		30.0				
Chlorobenzene	++++ 0.5316	0.6243 0.6354	0.5145 0.5291	0.5300	0.5682	Ave		0.5619			8.8		30.0				
Ethylbenzene	++++ 0.8572	0.9328 0.9804	0.7316 0.8763	0.8243	0.9024	Ave		0.8721			9.2		30.0				
n-Nonane	++++ 0.3115	0.2927 0.3552	0.2554 0.3273	0.2964	0.3226	Ave		0.3087			10.2		30.0				
m,p-Xylene	++++ 0.3452	0.3547 0.4029	0.2795 0.3763	0.3286	0.3618	Ave		0.3499			11.1		30.0				
n-Undecane	++++ 0.3267	++++ 0.3476	++++ 0.3592	0.3051	0.3512	Ave		0.3380			6.5		30.0				
Xylene, o-	++++ 0.3624	0.3744 0.4153	0.2992 0.3736	0.3397	0.3729	Ave		0.3625			9.9		30.0				
Styrene	++++ 0.4700	0.4021 0.5623	0.3290 0.4999	0.4309	0.4980	Ave		0.4560			16.7		30.0				
Bromoform	++++ 0.5237	0.4260 0.6398	0.3589 0.5274	0.4839	0.5547	Ave		0.5020			18.1		30.0				
Cumene	++++ 1.0808	1.1005 1.2274	0.8709 1.0991	1.0169	1.1206	Ave		1.0737			10.2		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.4710	0.4862 0.5524	0.4016 0.4744	0.4556	0.5024	Ave		0.4777			9.6		30.0				
1,2,3-Trichloropropane	++++ 0.3457	++++ 0.4052	0.2974 0.3476	0.3419	0.3758	Ave		0.3523			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 INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8														
n-Propylbenzene	++++ 1.0978	1.0205 1.2655	0.8181 1.1427	1.0447	1.1629	Ave		1.0789			13.0		30.0				
4-Ethyltoluene	++++ 1.0032	0.8324 1.1674	0.7103 1.0347	0.9334	1.0582	Ave		0.9628			15.8		30.0				
2-Chlorotoluene	++++ 0.8076	0.8236 0.9379	0.6601 0.8150	0.7779	0.8563	Ave		0.8112			10.3		30.0				
1,3,5-Trimethylbenzene	++++ 0.8702	0.8248 0.9816	0.6693 0.8958	0.8258	0.8996	Ave		0.8525			11.3		30.0				
Alpha Methyl Styrene	++++ 0.3921	0.2633 0.4667	0.2088 0.4296	0.3491	0.4159	Ave		0.3608			26.0		30.0				
tert-Butylbenzene	++++ 0.9015	0.8968 1.0065	0.7356 0.9336	0.8525	0.9233	Ave		0.8928			9.4		30.0				
1,2,4-Trimethylbenzene	++++ 0.8362	0.7285 0.9420	0.5998 0.8609	0.7938	0.8793	Ave		0.8058			14.0		30.0				
sec-Butylbenzene	++++ 1.2168	1.1378 1.3738	0.9170 1.2605	1.1607	1.2722	Ave		1.1913			12.1		30.0				
4-Isopropyltoluene	++++ 1.0727	0.9429 1.2172	0.7288 1.1103	1.0033	1.1163	Ave		1.0273			15.4		30.0				
1,3-Dichlorobenzene	++++ 0.5307	0.4984 0.6410	0.3946 0.5646	0.4824	0.5641	Ave		0.5251			14.8		30.0				
1,4-Dichlorobenzene	++++ 0.4859	0.4326 0.5892	0.3452 0.5058	0.4325	0.5228	Ave		0.4734			16.6		30.0				
Benzyl chloride	++++ 0.5453	0.3508 0.6663	0.2815 0.5770	0.4674	0.5634	Ave		0.4931			27.5		30.0				
n-Butylbenzene	++++ 0.7748	0.5522 0.8891	0.4580 0.7974	0.7013	0.8147	Ave		0.7125			21.7		30.0				
1,2-Dichlorobenzene	++++ 0.5325	0.4918 0.6304	0.3879 0.5530	0.4901	0.5661	Ave		0.5217			14.6		30.0				
1,2,4-Trichlorobenzene	++++ 0.2386	++++ 0.2748	0.0907 0.2754	0.1753	0.2403	Ave		0.2158			33.1	*	30.0				
Hexachlorobutadiene	++++ 0.4244	0.4172 0.4800	0.3807 0.4018	0.4107	0.4396	Ave		0.4221			7.5		30.0				
Naphthalene	++++ 0.4991	++++ 0.5301	0.1959 0.5457	0.3802	0.5088	Ave		0.4433			30.4	*	30.0				
1,2,3-Trichlorobenzene	++++ 0.2354	0.1174 0.2660	0.1152 0.2469	0.1881	0.2392	Ave		0.2012			31.1	*	30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43550/3	ggr003.d
Level 2	IC 200-43550/4	ggr004.d
Level 3	IC 200-43550/5	ggr005.d
Level 4	IC 200-43550/6	ggr006.d
Level 5	ICIS 200-43550/7	ggr007.d
Level 6	IC 200-43550/8	ggr008.d
Level 7	IC 200-43550/9	ggr009.d
Level 8	IC 200-43550/10	ggr010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Propylene	BCM	Ave	++++ 379922	++++ 508916	14222 1044814	123919	254334	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	++++ 2542431	++++ 3327981	86730 6760662	833003	1732993	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	++++ 1080905	++++ 1418289	39658 2878452	363543	737369	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 2337467	33359 3074477	78358 6279711	785662	1583248	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	++++ 475543	++++ 625520	16722 1284322	156256	316582	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	++++ 786717	++++ 1041553	26926 2162124	259713	529715	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	++++ 409024	5952 543073	13509 1110216	136163	275438	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	2832 627708	9320 833252	21821 1703076	208434	423073	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	++++ 192640	++++ 222328	++++ 516843	58508	122010	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Bromomethane	BCM	Ave	++++ 859160	12154 1135927	29459 2286428	277015	570632	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	++++ 309489	++++ 410807	10252 844764	101843	210604	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	++++ 598985	9219 785393	21139 1617138	198402	403735	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 860902	12414 1139294	27886 2380522	273709	575981	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	++++ 2589331	38082 3406537	91767 6985357	878700	1772955	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	++++ 864445	++++ 1138514	28235 2374209	283141	578823	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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
Ethanol	BCM	Ave	++++ 180255	++++ 357118	43951 887382	90005	125437	++++ 20.0	++++ 40.0	5.00 100	10.0	15.0
Ethyl ether	BCM	Ave	++++ 394126	4675 464174	12183 1080640	125359	256843	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Freon TF	BCM	Ave	++++ 1717720	23303 2310021	61103 4701014	570041	1164246	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1-Dichloroethene	BCM	Ave	++++ 730799	11464 974084	22999 2010559	240512	492541	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetone	BCM	Ave	++++ 849605	++++ 959200	++++ 2239292	288687	563615	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	++++ 44612	++++ 51532	++++ 128703	14212	28589	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Carbon disulfide	BCM	Ave	++++ 2088760	++++ 2750612	67224 5659512	678987	1390990	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopropyl alcohol	BCM	Ave	++++ 589207	++++ 711396	++++ 1525895	191943	413753	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
3-Chloropropene	BCM	Ave	++++ 669702	10035 874878	19977 1996324	227518	478393	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acetonitrile	BCM	Ave	++++ 316371	++++ 349322	++++ 652102	89144	199722	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Methylene Chloride	BCM	Ave	++++ 648552	++++ 851124	24140 1730171	218746	443181	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
tert-Butyl alcohol	BCM	Ave	++++ 1096496	++++ 1344023	++++ 2988422	362343	782266	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Methyl tert-butyl ether	BCM	Ave	++++ 2049449	28107 2371368	63823 5597582	654880	1343541	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,2-Dichloroethene	BCM	Ave	++++ 1031955	14091 1370746	34233 2801402	346756	700310	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrylonitrile	BCM	Ave	++++ 343597	++++ 391844	10247 938559	106505	221449	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Hexane	BCM	Ave	++++ 879122	11301 1156986	27438 2404859	282879	583806	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1-Dichloroethane	BCM	Ave	++++ 1272930	17668 1663012	42686 3450345	415869	854210	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Vinyl acetate	BCM	Ave	++++ 1253091	++++ 1404881	++++ 3538132	375196	782101	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
cis-1,2-Dichloroethene	BCM	Ave	++++ 813491	13527 1073152	27824 2266197	266812	534230	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Ethyl Ketone	BCM	Ave	++++ 257406	++++ 298669	7855 736404	77656	166791	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Tetrahydrofuran	DFB	Ave	++++ 505755	++++ 577781	++++ 1393514	157469	330282	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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	++++ 1778885	24902 2271901	58145 4784505	588935	1169575	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	++++ 219801	++++ 289166	++++ 666302	67649	157876	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	++++ 2136057	29778 2777476	70264 5761210	705153	1430643	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	++++ 941989	12332 1234642	29575 2610592	298500	620069	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	++++ 2013741	27535 2518664	66564 5667769	663621	1305511	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	++++ 2793137	36689 3582050	87273 7692064	903562	1814729	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	++++ 1171166	15924 1441935	37258 3181778	391012	762478	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	++++ 924817	11746 1163581	29629 2554781	299819	603099	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	8052 2431295	32680 3195484	77936 6577343	812904	1641150	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	++++ 649705	8164 782466	19715 1801030	210419	421983	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	++++ 554436	++++ 644256	12252 1631283	161060	361029	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	++++ 265050	++++ 315630	++++ 683153	93073	192631	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	++++ 1262606	16172 1590648	37686 3529492	400739	795906	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	++++ 1893779	22083 2335584	55506 5148359	613824	1217432	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	++++ 1073389	13819 1290975	30298 3024544	336451	696389	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	4147 1158766	15934 1499725	37158 3088085	376744	753212	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl isobutyl ketone	DFB	Ave	++++ 1111263	++++ 1321458	27693 3189773	345435	728432	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	++++ 1452839	18847 1753817	42571 4168133	451200	934965	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	++++ 1227749	14706 1482811	36059 3505275	381350	795770	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	++++ 1067386	12879 1299691	31183 3007158	332068	692706	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 702268	8859 845287	21343 1941656	217561	452786	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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	CBZ	Ave	++++ 1636999	24339 2049188	55749 4569136	523639	1045523	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 988893	++++ 1262963	++++ 24722 2824859	305400	676137	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	++++ 802297	++++ 765198	++++ 2282171	230978	530430	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	++++ 2019457	++++ 20848 2475790	51095 5659733	604800	1298039	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	++++ 1354816	16214 1636975	39437 3645500	426177	874421	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	++++ 1342887	++++ 1492217	++++ 30271 4084995	396804	857096	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	++++ 1944110	26521 2349217	59407 5566354	612059	1268866	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	++++ 3134835	++++ 39627 3624516	++++ 84472 9218703	952040	2015126	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	++++ 1139208	++++ 12432 1313269	29487 3443405	342374	720322	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	++++ 2525255	++++ 30135 2979305	++++ 64537 7918263	759118	1615775	++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
n-Undecane	CBZ	Ave	++++ 1194961	++++ 1285221	++++ 3779192	352374	784246	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Xylene, o-	CBZ	Ave	++++ 1325505	++++ 15905 1535190	++++ 34548 3930217	392299	832725	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	++++ 1718774	++++ 17080 2078804	++++ 37985 5259019	497686	1112034	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	++++ 1915215	++++ 18096 2365232	++++ 41435 5547850	558894	1238763	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	++++ 3952650	++++ 46751 4537736	++++ 100557 11562026	1174417	2502522	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1722486	++++ 20655 2042071	++++ 46369 4990893	526157	1122059	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	++++ 1264196	++++ 1498167	++++ 34340 3657156	394857	839262	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	++++ 4014992	++++ 43350 4678603	++++ 94464 12020913	1206528	2596883	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	++++ 3668821	++++ 35363 4315902	++++ 82014 10885393	1077982	2363252	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	++++ 2953571	++++ 34987 3467405	++++ 76222 8573831	898464	1912190	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3182496	++++ 35036 3629121	++++ 77284 9423669	953778	2008978	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12429-1 Analy Batch No.: 43550

SDG No.: \_\_\_\_\_

Instrument ID: G.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/15/2012 20:58 Calibration End Date: 08/16/2012 03:07 Calibration ID: 17165

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
Alpha Methyl Styrene	CBZ	Ave	++++ 1433969	11184 1725393	24111 4519017	403236	928857	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	++++ 3296891	38098 3721049	84938 9821354	984588	2061996	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 3058193	30946 3482492	69253 9056478	916786	1963544	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	++++ 4450052	48335 5078955	105877 13260470	1340553	2841050	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	++++ 3923103	40056 4499842	84147 11679728	1158706	2492820	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	++++ 1940819	21171 2369755	45567 5939941	557082	1259683	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	++++ 1777019	18377 2178286	39855 5321416	499460	1167551	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	++++ 1994386	14903 2463222	32505 6070401	539757	1258185	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	++++ 2833557	23456 3286925	52878 8388449	809967	1819297	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	++++ 1947399	20890 2330416	44787 5817497	566015	1264230	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 872677	++++ 1016095	10467 2896766	202413	536738	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	++++ 1552166	17725 1774520	43959 4226556	474315	981659	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	++++ 1825133	++++ 1959938	22622 5740214	439065	1136267	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 860924	4989 983443	13302 2597168	217289	534213	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:

Ave = Average ISTD

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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	0.6484	0.6663		10.3	10.0	2.8	30.0
Dichlorodifluoromethane	Ave	2.746	2.788		10.2	10.0	1.5	30.0
Freon 22	Ave	1.384	1.408		10.2	10.0	1.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.787		9.96	10.0	-0.4	30.0
Chloromethane	Ave	0.7657	0.7830		10.2	10.0	2.3	30.0
n-Butane	Ave	1.354	1.389		10.3	10.0	2.6	30.0
Vinyl chloride	Ave	0.9506	0.9470		9.96	10.0	-0.4	30.0
1,3-Butadiene	Ave	0.6877	0.7223		10.5	10.0	5.0	30.0
Bromomethane	Ave	0.9137	0.8865		9.70	10.0	-3.0	30.0
Chloroethane	Ave	0.4767	0.4754		9.97	10.0	-0.3	30.0
Isopentane	Ave	1.031	1.028		9.96	10.0	-0.3	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9751	0.9765		10.0	10.0	0.1	30.0
Trichlorofluoromethane	Ave	2.896	2.875		9.93	10.0	-0.7	30.0
n-Pentane	Ave	1.574	1.575		10.0	10.0	0.0	30.0
Ethanol	Ave	0.2344	0.2513		16.1	15.0	7.2	30.0
Ethyl ether	Ave	0.5994	0.6146		10.3	10.0	2.5	30.0
Acrolein	Ave	0.2829	0.2616		9.25	10.0	-7.5	30.0
Freon TF	Ave	2.025	2.150		10.6	10.0	6.2	30.0
1,1-Dichloroethene	Ave	0.9508	1.032		10.9	10.0	8.6	30.0
Acetone	Ave	1.101	1.208		11.0	10.0	9.7	30.0
Carbon disulfide	Ave	2.669	2.747		10.3	10.0	2.9	30.0
Isopropyl alcohol	Ave	0.7736	0.8070		10.4	10.0	4.3	30.0
3-Chloropropene	Ave	1.125	1.202		10.7	10.0	6.9	30.0
Acetonitrile	Ave	0.4531	0.5060		11.2	10.0	11.7	30.0
Methylene Chloride	Ave	0.9393	0.997		10.6	10.0	6.1	30.0
tert-Butyl alcohol	Ave	1.177	1.247		10.6	10.0	6.0	30.0
Methyl tert-butyl ether	Ave	2.647	2.814		10.6	10.0	6.3	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.427		10.2	10.0	2.0	30.0
Acrylonitrile	Ave	0.5402	0.6030		11.2	10.0	11.6	30.0
n-Hexane	Ave	1.513	1.551		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	1.799	1.826		10.1	10.0	1.5	30.0
Vinyl acetate	Ave	1.893	2.057		10.9	10.0	8.7	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.121		10.0	10.0	0.2	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4474		10.7	10.0	6.9	30.0
Ethyl acetate	Ave	0.0828	0.0876		10.6	10.0	5.9	30.0
Tetrahydrofuran	Ave	0.1572	0.1703		10.8	10.0	8.3	30.0
Chloroform	Ave	2.234	2.250		10.1	10.0	0.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4551		9.97	10.0	-0.3	30.0
Cyclohexane	Ave	0.2805	0.2822		10.1	10.0	0.6	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.88	10.0	-1.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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
Benzene	Ave	0.5923	0.5887		9.94	10.0	-0.6	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.8996		10.2	10.0	2.0	30.0
1,2-Dichloroethane	Ave	0.2664	0.2710		10.2	10.0	1.7	30.0
n-Heptane	Ave	0.3152	0.3254		10.3	10.0	3.2	30.0
n-Butanol	Ave	0.0579	0.0581		10.0	10.0	0.4	30.0
Trichloroethene	Ave	0.2787	0.2714		9.73	10.0	-2.6	30.0
1,2-Dichloropropane	Ave	0.1969	0.1920		9.75	10.0	-2.5	30.0
Methyl methacrylate	Ave	0.1681	0.1777		10.6	10.0	5.7	30.0
1,4-Dioxane	Ave	0.0702	0.0639		9.11	10.0	-8.9	30.0
Dibromomethane	Ave	0.2550	0.2525		9.90	10.0	-1.0	30.0
Bromodichloromethane	Ave	0.4359	0.4614		10.6	10.0	5.9	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3222		9.96	10.0	-0.4	30.0
Methyl isobutyl ketone	Ave	0.2796	0.3062		10.9	10.0	9.5	30.0
Toluene	Ave	0.4794	0.4739		9.88	10.0	-1.1	30.0
n-Octane	Ave	0.4253	0.4341		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3284		10.2	10.0	2.4	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2048		9.47	10.0	-5.3	30.0
Tetrachloroethene	Ave	0.4520	0.4338		9.60	10.0	-4.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.3020		10.8	10.0	8.1	30.0
Dibromochloromethane	Ave	0.4757	0.5164		10.9	10.0	8.6	30.0
1,2-Dibromoethane	Ave	0.4184	0.4150		9.92	10.0	-0.8	30.0
Chlorobenzene	Ave	0.6941	0.6711		9.67	10.0	-3.3	30.0
Ethylbenzene	Ave	1.008	1.035		10.3	10.0	2.7	30.0
n-Nonane	Ave	0.4389	0.4666		10.6	10.0	6.3	30.0
m,p-Xylene	Ave	0.4201	0.4322		20.6	20.0	2.9	30.0
Xylene, o-	Ave	0.4067	0.4199		10.3	10.0	3.2	30.0
Styrene	Ave	0.5752	0.6271		10.9	10.0	9.0	30.0
Bromoform	Ave	0.4612	0.5131		11.1	10.0	11.3	30.0
Cumene	Ave	1.170	1.245		10.6	10.0	6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5402		10.2	10.0	2.1	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4535		10.6	10.0	6.0	30.0
n-Propylbenzene	Ave	1.307	1.431		10.9	10.0	9.4	30.0
4-Ethyltoluene	Ave	1.133	1.288		11.4	10.0	13.8	30.0
n-Decane	Ave	0.4980	0.5713		11.5	10.0	14.7	30.0
2-Chlorotoluene	Ave	0.9700	1.058		10.9	10.0	9.0	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	1.049		10.7	10.0	6.8	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5383		11.7	10.0	17.4	30.0
tert-Butylbenzene	Ave	0.9877	1.083		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	1.025		10.8	10.0	7.9	30.0
sec-Butylbenzene	Ave	1.388	1.543		11.1	10.0	11.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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	1.178	1.346		11.4	10.0	14.3	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6994		10.4	10.0	4.5	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6868		10.6	10.0	5.9	30.0
Benzyl chloride	Ave	0.7030	0.8020		11.4	10.0	14.1	30.0
n-Butylbenzene	Ave	0.8856	1.055		11.9	10.0	19.1	30.0
n-Undecane	Ave	0.4617	0.5107		11.1	10.0	10.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6471		10.4	10.0	3.9	30.0
n-Dodecane	Ave	0.2640	0.2963		11.2	10.0	12.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.2872		10.3	10.0	3.3	30.0
Hexachlorobutadiene	Ave	0.3561	0.4031		11.3	10.0	13.2	30.0
Naphthalene	Ave	0.5526	0.6238		11.3	10.0	12.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2570		12.0	10.0	19.8	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44312/2 Calibration Date: 08/30/2012 09:21  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzl002.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	0.6484	0.6313		9.73	10.0	-2.6	30.0
Dichlorodifluoromethane	Ave	2.746	2.825		10.3	10.0	2.9	30.0
Freon 22	Ave	1.384	1.397		10.1	10.0	0.9	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.752		9.84	10.0	-1.6	30.0
Chloromethane	Ave	0.7657	0.7215		9.42	10.0	-5.8	30.0
n-Butane	Ave	1.354	1.288		9.51	10.0	-4.9	30.0
Vinyl chloride	Ave	0.9506	0.8793		9.25	10.0	-7.5	30.0
1,3-Butadiene	Ave	0.6877	0.6372		9.26	10.0	-7.3	30.0
Bromomethane	Ave	0.9137	0.8384		9.17	10.0	-8.2	30.0
Chloroethane	Ave	0.4767	0.4186		8.78	10.0	-12.2	30.0
Isopentane	Ave	1.031	0.8955		8.68	10.0	-13.2	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9751	0.9128		9.36	10.0	-6.4	30.0
Trichlorofluoromethane	Ave	2.896	2.896		10.0	10.0	0.0	30.0
n-Pentane	Ave	1.574	1.426		9.05	10.0	-9.4	30.0
Ethanol	Ave	0.2344	0.2123		13.6	15.0	-9.4	30.0
Ethyl ether	Ave	0.5994	0.5920		9.88	10.0	-1.2	30.0
Acrolein	Ave	0.2829	0.2534		8.96	10.0	-10.4	30.0
Freon TF	Ave	2.025	1.916		9.46	10.0	-5.4	30.0
1,1-Dichloroethene	Ave	0.9508	0.8825		9.28	10.0	-7.2	30.0
Acetone	Ave	1.101	1.259		11.4	10.0	14.3	30.0
Carbon disulfide	Ave	2.669	2.470		9.25	10.0	-7.4	30.0
Isopropyl alcohol	Ave	0.7736	0.8787		11.4	10.0	13.6	30.0
3-Chloropropene	Ave	1.125	1.036		9.21	10.0	-7.9	30.0
Acetonitrile	Ave	0.4531	0.4882		10.8	10.0	7.7	30.0
Methylene Chloride	Ave	0.9393	0.8477		9.02	10.0	-9.8	30.0
tert-Butyl alcohol	Ave	1.177	1.492		12.7	10.0	26.8	30.0
Methyl tert-butyl ether	Ave	2.647	2.659		10.0	10.0	0.4	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.333		9.52	10.0	-4.7	30.0
Acrylonitrile	Ave	0.5402	0.5261		9.74	10.0	-2.6	30.0
n-Hexane	Ave	1.513	1.376		9.09	10.0	-9.0	30.0
1,1-Dichloroethane	Ave	1.799	1.692		9.41	10.0	-5.9	30.0
Vinyl acetate	Ave	1.893	1.904		10.1	10.0	0.6	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.024		9.15	10.0	-8.5	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4087		9.77	10.0	-2.3	30.0
Ethyl acetate	Ave	0.0828	0.0786		9.49	10.0	-5.0	30.0
Tetrahydrofuran	Ave	0.1572	0.1495		9.51	10.0	-4.9	30.0
Chloroform	Ave	2.234	2.195		9.82	10.0	-1.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4515		9.89	10.0	-1.1	30.0
Cyclohexane	Ave	0.2805	0.2541		9.06	10.0	-9.4	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.87	10.0	-1.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44312/2 Calibration Date: 08/30/2012 09:21  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzl002.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
Benzene	Ave	0.5923	0.5268		8.89	10.0	-11.1	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.7897		8.95	10.0	-10.5	30.0
1,2-Dichloroethane	Ave	0.2664	0.2733		10.3	10.0	2.6	30.0
n-Heptane	Ave	0.3152	0.2828		8.97	10.0	-10.3	30.0
n-Butanol	Ave	0.0579	0.0609		10.5	10.0	5.2	30.0
Trichloroethene	Ave	0.2787	0.2645		9.49	10.0	-5.1	30.0
1,2-Dichloropropane	Ave	0.1969	0.1792		9.10	10.0	-9.0	30.0
Methyl methacrylate	Ave	0.1681	0.1621		9.64	10.0	-3.6	30.0
1,4-Dioxane	Ave	0.0702	0.0764		10.9	10.0	8.9	30.0
Dibromomethane	Ave	0.2550	0.2563		10.0	10.0	0.5	30.0
Bromodichloromethane	Ave	0.4359	0.4416		10.1	10.0	1.3	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3129		9.67	10.0	-3.3	30.0
Methyl isobutyl ketone	Ave	0.2796	0.2874		10.3	10.0	2.8	30.0
Toluene	Ave	0.4794	0.4600		9.59	10.0	-4.1	30.0
n-Octane	Ave	0.4253	0.3943		9.27	10.0	-7.3	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3327		10.4	10.0	3.7	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2058		9.52	10.0	-4.8	30.0
Tetrachloroethene	Ave	0.4520	0.4482		9.91	10.0	-0.8	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.2911		10.4	10.0	4.2	30.0
Dibromochloromethane	Ave	0.4757	0.4962		10.4	10.0	4.3	30.0
1,2-Dibromoethane	Ave	0.4184	0.4214		10.1	10.0	0.7	30.0
Chlorobenzene	Ave	0.6941	0.6685		9.63	10.0	-3.7	30.0
Ethylbenzene	Ave	1.008	0.9846		9.76	10.0	-2.4	30.0
n-Nonane	Ave	0.4389	0.4167		9.49	10.0	-5.1	30.0
m,p-Xylene	Ave	0.4201	0.4211		20.0	20.0	0.2	30.0
Xylene, o-	Ave	0.4067	0.4077		10.0	10.0	0.2	30.0
Styrene	Ave	0.5752	0.6059		10.5	10.0	5.3	30.0
Bromoform	Ave	0.4612	0.5016		10.9	10.0	8.8	30.0
Cumene	Ave	1.170	1.173		10.0	10.0	0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5164		9.75	10.0	-2.4	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4266		9.96	10.0	-0.3	30.0
n-Propylbenzene	Ave	1.307	1.329		10.2	10.0	1.7	30.0
4-Ethyltoluene	Ave	1.133	1.191		10.5	10.0	5.2	30.0
n-Decane	Ave	0.4980	0.5152		10.3	10.0	3.4	30.0
2-Chlorotoluene	Ave	0.9700	0.9928		10.2	10.0	2.3	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	0.9880		10.1	10.0	0.6	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5056		11.0	10.0	10.3	30.0
tert-Butylbenzene	Ave	0.9877	1.006		10.2	10.0	1.8	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	0.9808		10.3	10.0	3.2	30.0
sec-Butylbenzene	Ave	1.388	1.415		10.2	10.0	1.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44312/2 Calibration Date: 08/30/2012 09:21  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzl002.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	1.178	1.254		10.6	10.0	6.4	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.7051		10.5	10.0	5.3	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6896		10.6	10.0	6.4	30.0
Benzyl chloride	Ave	0.7030	0.6685		9.51	10.0	-4.9	30.0
n-Butylbenzene	Ave	0.8856	0.9741		11.0	10.0	10.0	30.0
n-Undecane	Ave	0.4617	0.4731		10.2	10.0	2.5	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6635		10.7	10.0	6.6	30.0
n-Dodecane	Ave	0.2640	0.3052		11.6	10.0	15.6	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.3606		13.0	10.0	29.7	30.0
Hexachlorobutadiene	Ave	0.3561	0.4020		11.3	10.0	12.9	30.0
Naphthalene	Ave	0.5526	0.7414		13.4	10.0	34.2*	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.3030		14.1	10.0	41.2*	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43550/12 Calibration Date: 08/16/2012 04:52  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggr012.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	0.4268	0.3893		9.12	10.0	-8.8	30.0
Dichlorodifluoromethane	Ave	2.793	2.573		9.21	10.0	-7.9	30.0
Freon 22	Ave	1.209	1.133		9.37	10.0	-6.3	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.586	2.431		9.40	10.0	-6.0	30.0
Chloromethane	Ave	0.5252	0.5087		9.68	10.0	-3.1	30.0
n-Butane	Ave	0.8704	0.8249		9.47	10.0	-5.2	30.0
Vinyl chloride	Ave	0.7494	0.6729		8.98	10.0	-10.2	30.0
1,3-Butadiene	Ave	0.4531	0.4526		9.99	10.0	-0.1	30.0
Bromomethane	Ave	0.9436	0.8735		9.26	10.0	-7.4	30.0
Chloroethane	Ave	0.3407	0.3146		9.23	10.0	-7.7	30.0
Isopentane	Ave	0.6736	0.6199		9.20	10.0	-8.0	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9446	0.9223		9.76	10.0	-2.4	30.0
Trichlorofluoromethane	Ave	2.911	2.680		9.21	10.0	-7.9	30.0
n-Pentane	Ave	0.9458	0.8783		9.28	10.0	-7.1	30.0
Ethanol	Ave	0.1454	0.1352		14.0	15.0	-7.0	30.0
Ethyl ether	Ave	0.4090	0.3831		9.37	10.0	-6.3	30.0
Acrolein	Ave	0.1992	0.1634		8.20	10.0	-18.0	30.0
Freon TF	Ave	1.911	1.927		10.1	10.0	0.8	30.0
1,1-Dichloroethene	Ave	0.8143	0.8262		10.1	10.0	1.5	30.0
Acetone	Ave	0.9008	0.9726		10.8	10.0	8.0	30.0
Carbon disulfide	Ave	2.270	2.182		9.61	10.0	-3.9	30.0
Isopropyl alcohol	Ave	0.6326	0.5194		8.21	10.0	-17.9	30.0
3-Chloropropene	Ave	0.7515	0.7026		9.35	10.0	-6.5	30.0
Acetonitrile	Ave	0.3044	0.3132		10.3	10.0	2.9	30.0
Methylene Chloride	Ave	0.7282	0.7400		10.2	10.0	1.6	30.0
tert-Butyl alcohol	Ave	1.200	0.9728		8.11	10.0	-18.9	30.0
Methyl tert-butyl ether	Ave	2.169	2.087		9.62	10.0	-3.7	30.0
trans-1,2-Dichloroethene	Ave	1.136	1.073		9.44	10.0	-5.6	30.0
Acrylonitrile	Ave	0.3556	0.3548		9.97	10.0	-0.2	30.0
n-Hexane	Ave	0.9424	0.9144		9.70	10.0	-3.0	30.0
1,1-Dichloroethane	Ave	1.395	1.328		9.52	10.0	-4.8	30.0
Vinyl acetate	Ave	1.295	1.220		9.42	10.0	-5.8	30.0
cis-1,2-Dichloroethene	Ave	0.9221	0.8954		9.71	10.0	-2.9	30.0
Methyl Ethyl Ketone	Ave	0.2693	0.2688		9.98	10.0	-0.2	30.0
Ethyl acetate	Ave	0.0474	0.0452		9.53	10.0	-4.7	30.0
Tetrahydrofuran	Ave	0.1324	0.1160		8.76	10.0	-12.4	30.0
Chloroform	Ave	1.935	1.812		9.37	10.0	-6.3	30.0
1,1,1-Trichloroethane	Ave	0.5799	0.5018		8.65	10.0	-13.5	30.0
Cyclohexane	Ave	0.2511	0.2258		8.99	10.0	-10.1	30.0
Carbon tetrachloride	Ave	0.6625	0.5676		8.57	10.0	-14.3	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43550/12 Calibration Date: 08/16/2012 04:52  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggr012.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
Benzene	Ave	0.5424	0.4849		8.94	10.0	-10.6	30.0
2,2,4-Trimethylpentane	Ave	0.7417	0.6649		8.96	10.0	-10.4	30.0
1,2-Dichloroethane	Ave	0.3120	0.2729		8.74	10.0	-12.5	30.0
n-Heptane	Ave	0.2447	0.2173		8.88	10.0	-11.2	30.0
n-Butanol	Ave	0.0616	0.0440		7.14	10.0	-28.6	30.0
Trichloroethene	Ave	0.3162	0.2661		8.41	10.0	-15.8	30.0
1,2-Dichloropropane	Ave	0.1691	0.1500		8.87	10.0	-11.3	30.0
Methyl methacrylate	Ave	0.1373	0.1245		9.06	10.0	-9.3	30.0
1,4-Dioxane	Ave	0.0724	0.0522		7.20	10.0	-28.0	30.0
Dibromomethane	Ave	0.3295	0.3006		9.12	10.0	-8.8	30.0
Bromodichloromethane	Ave	0.4860	0.4529		9.32	10.0	-6.8	30.0
cis-1,3-Dichloropropene	Ave	0.2771	0.2498		9.01	10.0	-9.9	30.0
Methyl isobutyl ketone	Ave	0.2827	0.2550		9.02	10.0	-9.8	30.0
Toluene	Ave	0.4128	0.3955		9.58	10.0	-4.2	30.0
n-Octane	Ave	0.3158	0.2815		8.91	10.0	-10.9	30.0
trans-1,3-Dichloropropene	Ave	0.2746	0.2439		8.88	10.0	-11.2	30.0
1,1,2-Trichloroethane	Ave	0.1985	0.1779		8.96	10.0	-10.4	30.0
Tetrachloroethene	Ave	0.4877	0.4454		9.13	10.0	-8.7	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2770	0.2623		9.47	10.0	-5.3	30.0
Dibromochloromethane	Ave	0.5426	0.5449		10.0	10.0	0.4	30.0
1,2-Dibromoethane	Ave	0.3777	0.3600		9.53	10.0	-4.7	30.0
Chlorobenzene	Ave	0.5619	0.5109		9.09	10.0	-9.1	30.0
Ethylbenzene	Ave	0.8721	0.7922		9.08	10.0	-9.2	30.0
n-Nonane	Ave	0.3087	0.2927		9.48	10.0	-5.2	30.0
m,p-Xylene	Ave	0.3499	0.3239		18.5	20.0	-7.4	30.0
Xylene, o-	Ave	0.3625	0.3371		9.30	10.0	-7.0	30.0
Styrene	Ave	0.4560	0.4328		9.49	10.0	-5.1	30.0
Bromoform	Ave	0.5020	0.5067		10.1	10.0	0.9	30.0
Cumene	Ave	1.074	1.017		9.47	10.0	-5.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4777	0.4245		8.89	10.0	-11.1	30.0
1,2,3-Trichloropropane	Ave	0.3523	0.3266		9.27	10.0	-7.3	30.0
n-Propylbenzene	Ave	1.079	1.015		9.41	10.0	-5.9	30.0
4-Ethyltoluene	Ave	0.9628	0.9391		9.75	10.0	-2.5	30.0
2-Chlorotoluene	Ave	0.8112	0.7647		9.42	10.0	-5.7	30.0
n-Decane	Ave	0.3581	0.3346		9.34	10.0	-6.6	30.0
1,3,5-Trimethylbenzene	Ave	0.8525	0.7942		9.31	10.0	-6.8	30.0
Alpha Methyl Styrene	Ave	0.3608	0.3602		9.98	10.0	-0.2	30.0
tert-Butylbenzene	Ave	0.8928	0.8481		9.50	10.0	-5.0	30.0
1,2,4-Trimethylbenzene	Ave	0.8058	0.7434		9.22	10.0	-7.7	30.0
sec-Butylbenzene	Ave	1.191	1.137		9.54	10.0	-4.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43550/12 Calibration Date: 08/16/2012 04:52  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggr012.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	1.027	0.998		9.71	10.0	-2.9	30.0
1,3-Dichlorobenzene	Ave	0.5251	0.4772		9.09	10.0	-9.1	30.0
1,4-Dichlorobenzene	Ave	0.4734	0.4339		9.16	10.0	-8.4	30.0
Benzyl chloride	Ave	0.4931	0.4755		9.64	10.0	-3.6	30.0
n-Butylbenzene	Ave	0.7125	0.7049		9.89	10.0	-1.1	30.0
n-Undecane	Ave	0.3380	0.2916		8.63	10.0	-13.7	30.0
1,2-Dichlorobenzene	Ave	0.5217	0.4718		9.04	10.0	-9.6	30.0
n-Dodecane	Ave	0.2162	0.1915		8.86	10.0	-11.4	30.0
1,2,4-Trichlorobenzene	Ave	0.2158	0.1903		8.81	10.0	-11.8	30.0
Hexachlorobutadiene	Ave	0.4221	0.3830		9.07	10.0	-9.3	30.0
Naphthalene	Ave	0.4433	0.4015		9.06	10.0	-9.4	30.0
1,2,3-Trichlorobenzene	Ave	0.2012	0.2050		10.2	10.0	1.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44193/2 Calibration Date: 08/28/2012 18:05  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggrj002.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	0.4268	0.3907		9.15	10.0	-8.5	30.0
Dichlorodifluoromethane	Ave	2.793	2.668		9.55	10.0	-4.5	30.0
Freon 22	Ave	1.209	1.082		8.95	10.0	-10.5	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.586	2.325		8.99	10.0	-10.1	30.0
Chloromethane	Ave	0.5252	0.4400		8.38	10.0	-16.2	30.0
n-Butane	Ave	0.8704	0.7182		8.25	10.0	-17.5	30.0
Vinyl chloride	Ave	0.7494	0.5814		7.76	10.0	-22.4	30.0
1,3-Butadiene	Ave	0.4531	0.3725		8.22	10.0	-17.8	30.0
Bromomethane	Ave	0.9436	0.7964		8.44	10.0	-15.6	30.0
Chloroethane	Ave	0.3407	0.2779		8.15	10.0	-18.4	30.0
Isopentane	Ave	0.6736	0.5329		7.91	10.0	-20.9	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9446	0.8340		8.83	10.0	-11.7	30.0
Trichlorofluoromethane	Ave	2.911	2.659		9.13	10.0	-8.7	30.0
n-Pentane	Ave	0.9458	0.7489		7.92	10.0	-20.8	30.0
Ethanol	Ave	0.1454	0.1171		12.1	15.0	-19.5	30.0
Ethyl ether	Ave	0.4090	0.3353		8.20	10.0	-18.0	30.0
Acrolein	Ave	0.1992	0.1476		7.41	10.0	-25.9	30.0
Freon TF	Ave	1.911	1.653		8.65	10.0	-13.5	30.0
1,1-Dichloroethene	Ave	0.8143	0.6797		8.35	10.0	-16.5	30.0
Acetone	Ave	0.9008	0.8187		9.09	10.0	-9.1	30.0
Carbon disulfide	Ave	2.270	1.865		8.21	10.0	-17.9	30.0
Isopropyl alcohol	Ave	0.6326	0.5516		8.72	10.0	-12.8	30.0
3-Chloropropene	Ave	0.7515	0.5664		7.53	10.0	-24.6	30.0
Acetonitrile	Ave	0.3044	0.2740		9.00	10.0	-10.0	30.0
Methylene Chloride	Ave	0.7282	0.5772		7.92	10.0	-20.7	30.0
tert-Butyl alcohol	Ave	1.200	1.098		9.15	10.0	-8.5	30.0
Methyl tert-butyl ether	Ave	2.169	1.858		8.57	10.0	-14.3	30.0
trans-1,2-Dichloroethene	Ave	1.136	0.9485		8.35	10.0	-16.5	30.0
Acrylonitrile	Ave	0.3556	0.2836		7.97	10.0	-20.2	30.0
n-Hexane	Ave	0.9424	0.7644		8.11	10.0	-18.9	30.0
1,1-Dichloroethane	Ave	1.395	1.162		8.33	10.0	-16.7	30.0
Vinyl acetate	Ave	1.295	1.007		7.77	10.0	-22.3	30.0
cis-1,2-Dichloroethene	Ave	0.9221	0.8010		8.68	10.0	-13.1	30.0
Methyl Ethyl Ketone	Ave	0.2693	0.2245		8.34	10.0	-16.6	30.0
Ethyl acetate	Ave	0.0474	0.0400		8.44	10.0	-15.6	30.0
Tetrahydrofuran	Ave	0.1324	0.1031		7.78	10.0	-22.1	30.0
Chloroform	Ave	1.935	1.778		9.19	10.0	-8.1	30.0
1,1,1-Trichloroethane	Ave	0.5799	0.5513		9.50	10.0	-4.9	30.0
Cyclohexane	Ave	0.2511	0.2249		8.95	10.0	-10.4	30.0
Carbon tetrachloride	Ave	0.6625	0.6375		9.62	10.0	-3.8	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44193/2 Calibration Date: 08/28/2012 18:05  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggrj002.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
Benzene	Ave	0.5424	0.4795		8.84	10.0	-11.6	30.0
2,2,4-Trimethylpentane	Ave	0.7417	0.6340		8.55	10.0	-14.5	30.0
1,2-Dichloroethane	Ave	0.3120	0.2926		9.38	10.0	-6.2	30.0
n-Heptane	Ave	0.2447	0.1986		8.11	10.0	-18.9	30.0
n-Butanol	Ave	0.0616	0.0489		7.94	10.0	-20.6	30.0
Trichloroethene	Ave	0.3162	0.2871		9.08	10.0	-9.2	30.0
1,2-Dichloropropane	Ave	0.1691	0.1434		8.48	10.0	-15.2	30.0
Methyl methacrylate	Ave	0.1373	0.1163		8.46	10.0	-15.3	30.0
1,4-Dioxane	Ave	0.0724	0.0686		9.46	10.0	-5.3	30.0
Dibromomethane	Ave	0.3295	0.3338		10.1	10.0	1.3	30.0
Bromodichloromethane	Ave	0.4860	0.4620		9.50	10.0	-4.9	30.0
cis-1,3-Dichloropropene	Ave	0.2771	0.2455		8.86	10.0	-11.4	30.0
Methyl isobutyl ketone	Ave	0.2827	0.2326		8.22	10.0	-17.7	30.0
Toluene	Ave	0.4128	0.3660		8.86	10.0	-11.3	30.0
n-Octane	Ave	0.3158	0.2535		8.03	10.0	-19.7	30.0
trans-1,3-Dichloropropene	Ave	0.2746	0.2441		8.89	10.0	-11.1	30.0
1,1,2-Trichloroethane	Ave	0.1985	0.1737		8.75	10.0	-12.5	30.0
Tetrachloroethene	Ave	0.4877	0.4703		9.64	10.0	-3.6	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2770	0.2215		8.00	10.0	-20.0	30.0
Dibromochloromethane	Ave	0.5426	0.5324		9.81	10.0	-1.9	30.0
1,2-Dibromoethane	Ave	0.3777	0.3549		9.40	10.0	-6.0	30.0
Chlorobenzene	Ave	0.5619	0.5082		9.04	10.0	-9.6	30.0
Ethylbenzene	Ave	0.8721	0.7674		8.80	10.0	-12.0	30.0
n-Nonane	Ave	0.3087	0.2626		8.50	10.0	-15.0	30.0
m,p-Xylene	Ave	0.3499	0.3150		18.0	20.0	-10.0	30.0
Xylene, o-	Ave	0.3625	0.3282		9.05	10.0	-9.5	30.0
Styrene	Ave	0.4560	0.4105		9.00	10.0	-10.0	30.0
Bromoform	Ave	0.5020	0.5110		10.2	10.0	1.8	30.0
Cumene	Ave	1.074	0.999		9.30	10.0	-7.0	30.0
1,1,2,2-Tetrachloroethane	Ave	0.4777	0.4297		8.99	10.0	-10.0	30.0
1,2,3-Trichloropropane	Ave	0.3523	0.3168		8.99	10.0	-10.1	30.0
n-Propylbenzene	Ave	1.079	0.9793		9.08	10.0	-9.2	30.0
4-Ethyltoluene	Ave	0.9628	0.9030		9.38	10.0	-6.2	30.0
2-Chlorotoluene	Ave	0.8112	0.7376		9.09	10.0	-9.1	30.0
n-Decane	Ave	0.3581	0.3073		8.58	10.0	-14.2	30.0
1,3,5-Trimethylbenzene	Ave	0.8525	0.8019		9.41	10.0	-5.9	30.0
Alpha Methyl Styrene	Ave	0.3608	0.3553		9.85	10.0	-1.5	30.0
tert-Butylbenzene	Ave	0.8928	0.8592		9.62	10.0	-3.8	30.0
1,2,4-Trimethylbenzene	Ave	0.8058	0.7641		9.48	10.0	-5.2	30.0
sec-Butylbenzene	Ave	1.191	1.116		9.36	10.0	-6.4	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44193/2 Calibration Date: 08/28/2012 18:05  
 Instrument ID: G.i Calib Start Date: 08/15/2012 20:58  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/16/2012 03:07  
 Lab File ID: ggrj002.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	1.027	0.9892		9.63	10.0	-3.7	30.0
1,3-Dichlorobenzene	Ave	0.5251	0.4944		9.41	10.0	-5.8	30.0
1,4-Dichlorobenzene	Ave	0.4734	0.4498		9.50	10.0	-5.0	30.0
Benzyl chloride	Ave	0.4931	0.3886		7.88	10.0	-21.2	30.0
n-Butylbenzene	Ave	0.7125	0.6676		9.37	10.0	-6.3	30.0
n-Undecane	Ave	0.3380	0.2540		7.51	10.0	-24.8	30.0
1,2-Dichlorobenzene	Ave	0.5217	0.5124		9.82	10.0	-1.8	30.0
n-Dodecane	Ave	0.2162	0.1504		6.96	10.0	-30.4*	30.0
1,2,4-Trichlorobenzene	Ave	0.2158	0.1878		8.70	10.0	-13.0	30.0
Hexachlorobutadiene	Ave	0.4221	0.4586		10.9	10.0	8.7	30.0
Naphthalene	Ave	0.4433	0.3527		7.96	10.0	-20.4	30.0
1,2,3-Trichlorobenzene	Ave	0.2012	0.1984		9.86	10.0	-1.4	30.0

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44193/4  
 Matrix: Air Lab File ID: ggrj004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 08/28/2012 19:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44193/4  
 Matrix: Air Lab File ID: ggrj004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 19:51  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44193 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44312/4  
 Matrix: Air Lab File ID: ckz1004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/30/2012 11:08  
 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.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44312/4  
 Matrix: Air Lab File ID: ckz1004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/30/2012 11:08  
 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.: 44312 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44193/3  
 Matrix: Air Lab File ID: ggrj003.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/28/2012 18:58  
 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.: 44193 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	7.43		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	9.25		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	8.45		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	8.90		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	17.4		0.20	0.20
79-01-6	Trichloroethene	131.39	8.48		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.11		0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12429-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44312/3  
 Matrix: Air Lab File ID: ckz1003.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200 (mL) Date Analyzed: 08/30/2012 10:15  
 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.: 44312 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	9.46		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	10.9		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	9.84		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	9.89		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	19.7		0.20	0.20
79-01-6	Trichloroethene	131.39	9.73		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.76		0.20	0.20

US EPA ARCHIVE DOCUMENT

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Start Date: 08/14/2012 16:28

Analysis Batch Number: 43490 End Date: 08/15/2012 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43490/1		08/14/2012 16:28	1	ckz001.d	RTX-624 0.32 (mm)
VIBLK 200-43490/2		08/14/2012 17:21	1		RTX-624 0.32 (mm)
IC 200-43490/3		08/14/2012 18:13	1	ckz003.d	RTX-624 0.32 (mm)
IC 200-43490/4		08/14/2012 19:07	1	ckz004.d	RTX-624 0.32 (mm)
IC 200-43490/5		08/14/2012 20:00	1	ckz005.d	RTX-624 0.32 (mm)
IC 200-43490/6		08/14/2012 20:53	1	ckz006.d	RTX-624 0.32 (mm)
ZZZZZ		08/14/2012 21:47	1		RTX-624 0.32 (mm)
IC 200-43490/8		08/14/2012 22:41	1	ckz008.d	RTX-624 0.32 (mm)
IC 200-43490/9		08/14/2012 23:34	1	ckz009.d	RTX-624 0.32 (mm)
IC 200-43490/10		08/15/2012 00:28	1	ckz010.d	RTX-624 0.32 (mm)
VIBLK 200-43490/11		08/15/2012 01:22	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 02:15	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 03:08	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 04:02	1		RTX-624 0.32 (mm)
ICIS 200-43490/15		08/15/2012 08:24	1	ckz015.d	RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 09:22	1		RTX-624 0.32 (mm)
VIBLK 200-43490/17		08/15/2012 10:16	1		RTX-624 0.32 (mm)
ICV 200-43490/18		08/15/2012 11:09	1	ckz018.d	RTX-624 0.32 (mm)



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Start Date: 08/30/2012 08:28

Analysis Batch Number: 44312 End Date: 08/31/2012 07:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44312/1		08/30/2012 08:28	1	ckz1001.d	RTX-624 0.32 (mm)
CCVIS 200-44312/2		08/30/2012 09:21	1	ckz1002.d	RTX-624 0.32 (mm)
LCS 200-44312/3		08/30/2012 10:15	1	ckz1003.d	RTX-624 0.32 (mm)
MB 200-44312/4		08/30/2012 11:08	1	ckz1004.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 12:01	200		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 12:54	24.9		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 13:48	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 14:41	303		RTX-624 0.32 (mm)
200-12429-7	SSV-13	08/30/2012 15:34	20	ckz1009.d	RTX-624 0.32 (mm)
200-12429-7 DL	SSV-13 DL	08/30/2012 16:28	102	ckz1010.d	RTX-624 0.32 (mm)
200-12429-8	SSV-16	08/30/2012 17:22	2	ckz1011.d	RTX-624 0.32 (mm)
200-12429-9	SSV-15	08/30/2012 18:15	2	ckz1012.d	RTX-624 0.32 (mm)
200-12429-10	SSV-14	08/30/2012 19:08	2	ckz1013.d	RTX-624 0.32 (mm)
200-12429-11	SSV-17	08/30/2012 20:02	2	ckz1014.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 20:55	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 21:49	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 22:43	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 23:36	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 00:29	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 01:23	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 02:17	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 03:11	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 04:05	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 04:59	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 05:53	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 06:46	40		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 07:39	1		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Start Date: 08/15/2012 17:30

Analysis Batch Number: 43550 End Date: 08/16/2012 14:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43550/1		08/15/2012 17:30	1	ggr001.d	RTX-624 0.32 (mm)
VIBLK 200-43550/2		08/15/2012 20:06	1		RTX-624 0.32 (mm)
IC 200-43550/3		08/15/2012 20:58	1	ggr003.d	RTX-624 0.32 (mm)
IC 200-43550/4		08/15/2012 21:51	1	ggr004.d	RTX-624 0.32 (mm)
IC 200-43550/5		08/15/2012 22:43	1	ggr005.d	RTX-624 0.32 (mm)
IC 200-43550/6		08/15/2012 23:36	1	ggr006.d	RTX-624 0.32 (mm)
ICIS 200-43550/7		08/16/2012 00:28	1	ggr007.d	RTX-624 0.32 (mm)
IC 200-43550/8		08/16/2012 01:21	1	ggr008.d	RTX-624 0.32 (mm)
IC 200-43550/9		08/16/2012 02:14	1	ggr009.d	RTX-624 0.32 (mm)
IC 200-43550/10		08/16/2012 03:07	1	ggr010.d	RTX-624 0.32 (mm)
VIBLK 200-43550/11		08/16/2012 03:59	1		RTX-624 0.32 (mm)
ICV 200-43550/12		08/16/2012 04:52	1	ggr012.d	RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 05:46	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 06:39	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 07:32	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 08:24	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 09:17	1		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 10:12	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 11:08	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 12:03	0.2		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 12:56	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 13:48	0.4		RTX-624 0.32 (mm)
ZZZZZ		08/16/2012 14:41	0.4		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12429-1

SDG No.: \_\_\_\_\_

Instrument ID: G.i Start Date: 08/28/2012 17:11

Analysis Batch Number: 44193 End Date: 08/29/2012 15:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44193/1		08/28/2012 17:11	1	ggrj001.d	RTX-624 0.32 (mm)
CCVIS 200-44193/2		08/28/2012 18:05	1	ggrj002.d	RTX-624 0.32 (mm)
LCS 200-44193/3		08/28/2012 18:58	1	ggrj003.d	RTX-624 0.32 (mm)
MB 200-44193/4		08/28/2012 19:51	1	ggrj004.d	RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 20:44	2		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 21:37	10.1		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 22:30	48.8		RTX-624 0.32 (mm)
ZZZZZ		08/28/2012 23:22	28		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 00:15	139		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 01:08	47.9		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 02:01	242		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 02:54	4.74		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 03:47	23.1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 04:39	4.68		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 05:32	19.1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 06:25	2.47		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 07:18	1.24		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 08:11	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 09:04	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 09:57	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 10:49	2		RTX-624 0.32 (mm)
200-12429-5	SSV-03	08/29/2012 11:42	2	ggrj022.d	RTX-624 0.32 (mm)
200-12429-6	SSV-12	08/29/2012 12:34	40	ggrj023.d	RTX-624 0.32 (mm)
200-12429-6 DL	SSV-12 DL	08/29/2012 13:27	198	ggrj024.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 14:21	260		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 15:14	1330		RTX-624 0.32 (mm)

Client: Burns & McDonnell

TestAmerica Job ID: 200-12429-1

Lab Sample ID	Canister Volume (L)	Preadjusted Pressure ("Hg)	Preadjusted Pressure (atm)	Preadjusted Volume (L)	Adjusted Pressure (psig)	Adjusted Pressure (atm)	Adjusted Volume (L)	Dilution Factor	Final Dilution Factor	Date	Time	Analyst
200-12429-6	1	-7.6	0.75	0.75	40.3	3.74	3.74	5.02	5.02	08/29/12	2:57	Keene, Angela H
200-12429-6	1	0.0	1.00	1.00	43.5	3.96	3.96	3.96	19.88	08/29/12	2:59	Keene, Angela H
200-12429-6	1	0.0	1.00	1.00	14.6	1.99	1.99	1.99	39.56	08/29/12	3:01	Keene, Angela H
200-12429-7	0	-4.5	0.85	0.00	39.6	3.69	0.00	4.35	4.35	08/29/12	3:03	Keene, Angela H
200-12429-7	0	0.0	1.00	0.00	40.6	3.76	0.00	3.76	16.36	08/29/12	3:05	Keene, Angela H

**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)

Vol = Volume of SUMMA canister at atmospheric pressure

# Shipping and Receiving Documents



**TestAmerica Burlington**

30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

Client Contact Information		Project Manager: <u>Tom Zychinski</u>		Samples Collected By: <u>(Signature)</u>				1 of 1 COCs												
Company: <u>Burns &amp; McDonnell</u>		Phone: <u>314-682-1500</u>																		
Address: <u>425 S. Woods Mill Rd</u>		Email: <u>cmatheria@burnsmcd.com</u>																		
City/State/Zip: <u>Chesterfield, MO 63017</u>		Site Contact: <u>Cheryl Matheria</u>																		
Phone: <u>314-682-1500</u>		TA Contact: <u>Dan Dawidziuk</u>																		
FAX: _____																				
Project Name: <u>R1C1</u>		Analysis Turnaround Time																		
Site: <u>PK1</u>		Standard (Specify)																		
PO # <u>26682</u>		Rush (Specify) <u>5 DAY</u>																		
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	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	
① SSV-03	8/23/12	1325	1334	-28	-5	2764	4359	X												
② SSV-12	8/23/12	1600	1609	-29	-5	2817	4966	X												
③ SSV-13	8/23/12	1638	1646	-29	-5	3718	A16755D	X												
④ SSV-16	8/23/12	0850	0858	-28	-5	2831	5078D	X												
⑤ SSV-15	8/23/12	1120	1128	-29	-5	4057	00813	X												
⑥ SSV-14	8/23/12	1143	1153	-30	-5	3992	2981	X												
⑦ SSV-17	8/23/12	0922	0931	Temperature (Fahrenheit)		3375	1869D	X												
			Interior	Ambient	-29.5	-5														
		Start																		
		Stop																		
Pressure (inches of Hg)																				
		Interior	Ambient																	
		Start																		
		Stop																		
Special Instructions/QC Requirements & Comments:																				
Samples Shipped by: <u>(Signature)</u>		Date/Time: <u>8/23/12</u>		Samples Received by: <u>8/27/12</u>				Date/Time: <u>0940</u>												
Samples Relinquished by: <u>(Signature)</u>		Date/Time: <u>8/23/12 1700</u>		Received by: <u>(Signature)</u>																
Relinquished by:		Date/Time:		Received by:																

Lab Use Only      Shipper Name: \_\_\_\_\_      Opened by: \_\_\_\_\_      Condition: \_\_\_\_\_

From: (314) 682-1500  
Jeanette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017

Origin ID: ZSVA

FedEx  
Express



J12201207160325

Ship Date: 22AUG12  
Act/Wgt: 30.0 LB  
CAD: 5444229/INET3300

Delivery Address Bar Code



SHIP TO: (802) 660-1990  
**SAMPLE RECEIVING**  
TestAmerica  
30 COMMUNITY DR

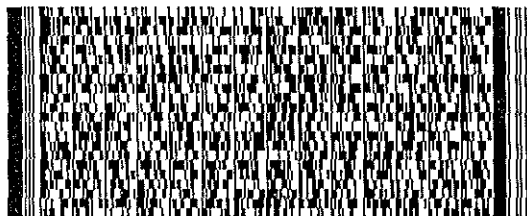
BILL SENDER

Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

SOUTH BURLINGTON, VT 05403

THU - 23 AUG A4  
STANDARD OVERNIGHT

TRK# 7987 8216 6390  
0201



XL BTVA

FedEx  
TRK# 7987 8216 6390  
0201

MON - 27 AUG A4  
STANDARD OVERNIGHT

**TD BTVA**

05403  
VT-US BTV





From: (314) 682-1500  
Jeanette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017

Origin ID: ZSVA



J12201207160325

Ship Date: 22AUG12  
Act/Wgt: 30.0 LB  
CAD: 5444229/INET3300

Delivery Address Bar Code



Ref # 26682 8203 CMatheria  
Invoice #  
PO #  
Dept #

SHIP TO: (802) 660-1990  
SAMPLE RECEIVING  
TestAmerica  
30 COMMUNITY DR

BILL SENDER

SOUTH BURLINGTON, VT 05403

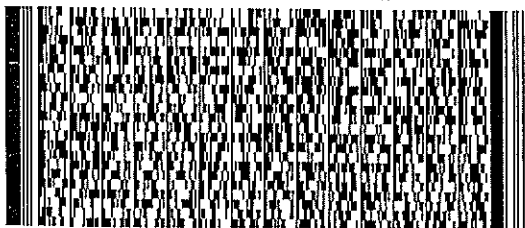
FedEx  
MPS# 7987 8218 3279  
0263

MON - 27 AUG A4  
STANDARD OVERNIGHT

MP  
02  
M

TD BTVA

05403  
VT-US BTV



\*2267412 08/24 51562/0C34/RR44

US EPA ARCHIVE DOCUMENT

## Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 200-12429-1

**Login Number: 12429**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Poucher, Stephanie A**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	no numbers
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.	True	ambient
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.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

## ANALYTICAL REPORT

Job Number: 200-12430-1

Job Description: PKI/26682-3.20.20 - Air

For:

Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017  
Attention: Cheryl Mathenia



Approved for release.  
Don C Dawicki  
Customer Service Manager  
9/5/2012 11:46 AM

---

Don C Dawicki  
Customer Service Manager  
don.dawicki@testamericainc.com  
09/05/2012

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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## CASE NARRATIVE

**Client: Burns & McDonnell**

**Project: PKI/26682-3.20.20 - Air**

**Report Number: 200-12430-1**

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

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

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

### RECEIPT

The samples were received on 08/27/2012; the samples arrived in good condition.

### VOLATILE ORGANIC COMPOUNDS

Samples SUA-01, SUA-02, and SUA-02/FD were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/31/2012.

The samples referenced above were originally designated for low level TO-15 analysis; however, based on screen analyses, it was necessary to process these samples using the routine TO-15 method. The samples were analyzed at dilution as well as full strength to provide for compliant analyses, as well as to provide for the best possible reporting limits. Both analyses for each of these samples have been formally presented.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

### LOW LEVEL VOLATILE ORGANIC COMPOUNDS

Samples IA-03, IA-07, IA-15, IA-08, IA-09, IA-16, IA-01, IA-02, IA-05, IA-12, IA-10, SUA-03, IA-17, IA-08/FD and IA-14 were analyzed for Low Level Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 08/30/2012, 08/31/2012 and 09/01/2012.

The original analysis attempt for samples IA-09 and IA-16 yielded internal standard responses outside the established criteria due to high humidity in the samples as well as high concentrations of non-target analytes resulting in interference with the instrumentation. Each sample was re-analyzed as concentrated as possible with the goal of achieving the requested screening levels without interference to the instrumentation.

The majority of the samples referenced above were analyzed at dilution as well as full strength to provide for compliant analyses, as well as to provide for the best possible reporting limits. Both analyses for each of these samples have been formally presented.

All quality control parameters were within the acceptance limits.

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Analysis Batch Number: 43490

Lab Sample ID: IC 200-43490/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 18:13 Lab File ID: ckz003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	5.13	Poor chromatography	ahk	08/14/12 22:55
Carbon tetrachloride	12.78	Poor chromatography		

Lab Sample ID: IC 200-43490/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 19:07 Lab File ID: ckz004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	8.95	Poor chromatography		
Methyl tert-butyl ether	9.66	Poor chromatography		
n-Butanol	14.24	Analyte misidentified by the data system	ahk	08/14/12 23:01
trans-1,3-Dichloropropene	17.23	Poor chromatography		
n-Nonane	19.79	Peak not found by the data system	ahk	08/14/12 23:02
n-Dodecane	25.46	Peak not found by the data system	ahk	08/14/12 23:02

Lab Sample ID: IC 200-43490/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/14/12 20:00 Lab File ID: ckz005.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
n-Butanol	14.24	Peak not found by the data system	ahk	08/14/12 23:04

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Analysis Batch Number: 44377

Lab Sample ID: CCVIS 200-44377/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 08/31/12 10:14 Lab File ID: ckzm002.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acetonitrile	8.93	Baseline event	wrd	09/03/12 14:01



AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Analysis Batch Number: 38293

Lab Sample ID: IC 200-38293/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/07/12 15:17 Lab File ID: eev003.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methyl tert-butyl ether	7.96	Baseline event	wrd	05/08/12 08:43
1,1,2-Trichloroethane	14.20	Peak not found by the data system	wrd	05/08/12 08:25
Bromoform	16.62	Peak not found by the data system	wrd	05/08/12 08:26

Lab Sample ID: IC 200-38293/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 05/07/12 16:11 Lab File ID: eev004.d GC Column: RTX-624 ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
3-Chloropropene	7.12	Baseline event	wrd	05/08/12 08:31
Methyl tert-butyl ether	7.93	Baseline event	wrd	05/08/12 08:31
1,2-Dichloroethane	10.96	Peak not found by the data system	wrd	05/08/12 08:26

## SAMPLE SUMMARY

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-12430-1	IA-03	Air	08/24/2012 1300	08/27/2012 0940
200-12430-2	IA-09	Air	08/24/2012 1107	08/27/2012 0940
200-12430-3	IA-16	Air	08/24/2012 1108	08/27/2012 0940
200-12430-4	IA-01	Air	08/22/2012 1333	08/27/2012 0940
200-12430-5	IA-02	Air	08/22/2012 1249	08/27/2012 0940
200-12430-6	IA-05	Air	08/22/2012 1132	08/27/2012 0940
200-12430-7	IA-12	Air	08/22/2012 1133	08/27/2012 0940
200-12430-8	IA-10	Air	08/24/2012 0832	08/27/2012 0940
200-12430-9	SUA-03	Air	08/24/2012 0833	08/27/2012 0940
200-12430-10	IA-17	Air	08/24/2012 0833	08/27/2012 0940
200-12430-11	IA-08/FD	Air	08/24/2012 1553	08/27/2012 0940
200-12430-12	IA-14	Air	08/24/2012 1607	08/27/2012 0940
200-12430-13	SUA-02	Air	08/24/2012 1552	08/27/2012 0940
200-12430-14	SUA-02/FD	Air	08/24/2012 1552	08/27/2012 0940
200-12433-1	IA-07	Air	08/22/2012 1406	08/27/2012 0940
200-12433-2	IA-15	Air	08/22/2012 1408	08/27/2012 0940
200-12433-3	SUA-01	Air	08/22/2012 1410	08/27/2012 0940
200-12433-4	IA-08	Air	08/23/2012 1553	08/27/2012 0940

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12430-1</b>	<b>IA-03</b>					
Trichloroethene		0.46		0.020	ppb v/v	TO15 LL
Trichloroethene		2.5		0.11	ug/m3	TO15 LL
Tetrachloroethene		0.045		0.020	ppb v/v	TO15 LL
Tetrachloroethene		0.30		0.14	ug/m3	TO15 LL
<b>200-12430-2</b>	<b>IA-09</b>					
Tetrachloroethene		0.33		0.10	ppb v/v	TO15 LL
Tetrachloroethene		2.2		0.68	ug/m3	TO15 LL
<b>200-12430-3</b>	<b>IA-16</b>					
Tetrachloroethene		0.34		0.10	ppb v/v	TO15 LL
Tetrachloroethene		2.3		0.68	ug/m3	TO15 LL
<b>200-12430-4</b>	<b>IA-01</b>					
Trichloroethene		0.066		0.030	ppb v/v	TO15 LL
Trichloroethene		0.35		0.16	ug/m3	TO15 LL
Tetrachloroethene		0.20		0.030	ppb v/v	TO15 LL
Tetrachloroethene		1.4		0.20	ug/m3	TO15 LL
<b>200-12430-5</b>	<b>IA-02</b>					
Trichloroethene		0.078		0.010	ppb v/v	TO15 LL
Trichloroethene		0.42		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.061		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.41		0.068	ug/m3	TO15 LL
<b>200-12430-6</b>	<b>IA-05</b>					
Trichloroethene		0.17		0.030	ppb v/v	TO15 LL
Trichloroethene		0.91		0.16	ug/m3	TO15 LL
Tetrachloroethene		0.11		0.030	ppb v/v	TO15 LL
Tetrachloroethene		0.72		0.20	ug/m3	TO15 LL
<b>200-12430-7</b>	<b>IA-12</b>					
Trichloroethene		0.16		0.030	ppb v/v	TO15 LL
Trichloroethene		0.87		0.16	ug/m3	TO15 LL
Tetrachloroethene		0.084		0.030	ppb v/v	TO15 LL
Tetrachloroethene		0.57		0.20	ug/m3	TO15 LL

US EPA ARCHIVE DOCUMENT

## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12430-8</b>	<b>IA-10</b>					
Trichloroethene		0.096		0.010	ppb v/v	TO15 LL
Trichloroethene		0.51		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.041		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.28		0.068	ug/m3	TO15 LL
<b>200-12430-9</b>	<b>SUA-03</b>					
Trichloroethene		0.086		0.010	ppb v/v	TO15 LL
Trichloroethene		0.46		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.059		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.40		0.068	ug/m3	TO15 LL
<b>200-12430-10</b>	<b>IA-17</b>					
Trichloroethene		0.074		0.010	ppb v/v	TO15 LL
Trichloroethene		0.40		0.054	ug/m3	TO15 LL
Tetrachloroethene		0.046		0.010	ppb v/v	TO15 LL
Tetrachloroethene		0.31		0.068	ug/m3	TO15 LL
<b>200-12430-11</b>	<b>IA-08/FD</b>					
trans-1,2-Dichloroethene		0.24		0.030	ppb v/v	TO15 LL
trans-1,2-Dichloroethene		0.96		0.12	ug/m3	TO15 LL
cis-1,2-Dichloroethene		11	D	0.20	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		43	D	0.79	ug/m3	TO15 LL
1,2-Dichloroethene, Total		9.9		0.030	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		39		0.12	ug/m3	TO15 LL
Trichloroethene		14	D	0.20	ppb v/v	TO15 LL
Trichloroethene		73	D	1.1	ug/m3	TO15 LL
Tetrachloroethene		0.28		0.030	ppb v/v	TO15 LL
Tetrachloroethene		1.9		0.20	ug/m3	TO15 LL
<b>200-12430-12</b>	<b>IA-14</b>					
trans-1,2-Dichloroethene		0.18		0.030	ppb v/v	TO15 LL
trans-1,2-Dichloroethene		0.72		0.12	ug/m3	TO15 LL
cis-1,2-Dichloroethene		7.1	D	0.20	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		28	D	0.79	ug/m3	TO15 LL
1,2-Dichloroethene, Total		7.3		0.030	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		29		0.12	ug/m3	TO15 LL
Trichloroethene		9.0	D	0.20	ppb v/v	TO15 LL
Trichloroethene		48	D	1.1	ug/m3	TO15 LL
Tetrachloroethene		0.21		0.030	ppb v/v	TO15 LL
Tetrachloroethene		1.4		0.20	ug/m3	TO15 LL

US EPA ARCHIVE DOCUMENT

## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Sample ID	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12430-13</b>	<b>SUA-02</b>					
trans-1,2-Dichloroethene		1.1		0.20	ppb v/v	TO-15
trans-1,2-Dichloroethene		4.4		0.79	ug/m3	TO-15
cis-1,2-Dichloroethene		43	D	0.40	ppb v/v	TO-15
cis-1,2-Dichloroethene		170	D	1.6	ug/m3	TO-15
1,2-Dichloroethene, Total		44		0.20	ppb v/v	TO-15
1,2-Dichloroethene, Total		170		0.79	ug/m3	TO-15
Trichloroethene		54	D	0.40	ppb v/v	TO-15
Trichloroethene		290	D	2.1	ug/m3	TO-15
Tetrachloroethene		1.2		0.20	ppb v/v	TO-15
Tetrachloroethene		8.2		1.4	ug/m3	TO-15
<b>200-12430-14</b>	<b>SUA-02/FD</b>					
trans-1,2-Dichloroethene		1.1		0.20	ppb v/v	TO-15
trans-1,2-Dichloroethene		4.3		0.79	ug/m3	TO-15
cis-1,2-Dichloroethene		41	D	0.40	ppb v/v	TO-15
cis-1,2-Dichloroethene		160	D	1.6	ug/m3	TO-15
1,2-Dichloroethene, Total		44		0.20	ppb v/v	TO-15
1,2-Dichloroethene, Total		180		0.79	ug/m3	TO-15
Trichloroethene		51	D	0.40	ppb v/v	TO-15
Trichloroethene		270	D	2.1	ug/m3	TO-15
Tetrachloroethene		1.2		0.20	ppb v/v	TO-15
Tetrachloroethene		8.2		1.4	ug/m3	TO-15
<b>200-12433-1</b>	<b>IA-07</b>					
trans-1,2-Dichloroethene		0.044		0.030	ppb v/v	TO15 LL
trans-1,2-Dichloroethene		0.18		0.12	ug/m3	TO15 LL
cis-1,2-Dichloroethene		0.55		0.030	ppb v/v	TO15 LL
cis-1,2-Dichloroethene		2.2		0.12	ug/m3	TO15 LL
1,2-Dichloroethene, Total		0.59		0.030	ppb v/v	TO15 LL
1,2-Dichloroethene, Total		2.4		0.12	ug/m3	TO15 LL
Trichloroethene		5.8	D	0.10	ppb v/v	TO15 LL
Trichloroethene		31	D	0.54	ug/m3	TO15 LL
Tetrachloroethene		0.21		0.030	ppb v/v	TO15 LL
Tetrachloroethene		1.4		0.20	ug/m3	TO15 LL

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## EXECUTIVE SUMMARY - Detections

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Sample ID	Client Sample ID	Analyte	Result	Qualifier	Reporting Limit	Units	Method
<b>200-12433-2</b>	<b>IA-15</b>						
		trans-1,2-Dichloroethene	0.038		0.030	ppb v/v	TO15 LL
		trans-1,2-Dichloroethene	0.15		0.12	ug/m3	TO15 LL
		cis-1,2-Dichloroethene	0.53		0.030	ppb v/v	TO15 LL
		cis-1,2-Dichloroethene	2.1		0.12	ug/m3	TO15 LL
		1,2-Dichloroethene, Total	0.57		0.030	ppb v/v	TO15 LL
		1,2-Dichloroethene, Total	2.3		0.12	ug/m3	TO15 LL
		Trichloroethene	5.4	D	0.10	ppb v/v	TO15 LL
		Trichloroethene	29	D	0.54	ug/m3	TO15 LL
		Tetrachloroethene	0.20		0.030	ppb v/v	TO15 LL
		Tetrachloroethene	1.3		0.20	ug/m3	TO15 LL
<b>200-12433-3</b>	<b>SUA-01</b>						
		trans-1,2-Dichloroethene	2.0		0.40	ppb v/v	TO-15
		trans-1,2-Dichloroethene	7.9		1.6	ug/m3	TO-15
		cis-1,2-Dichloroethene	29		0.40	ppb v/v	TO-15
		cis-1,2-Dichloroethene	110		1.6	ug/m3	TO-15
		1,2-Dichloroethene, Total	31		0.40	ppb v/v	TO-15
		1,2-Dichloroethene, Total	120		1.6	ug/m3	TO-15
		Trichloroethene	360	D	2.0	ppb v/v	TO-15
		Trichloroethene	1900	D	11	ug/m3	TO-15
		Tetrachloroethene	8.6		0.40	ppb v/v	TO-15
		Tetrachloroethene	59		2.7	ug/m3	TO-15
<b>200-12433-4</b>	<b>IA-08</b>						
		trans-1,2-Dichloroethene	0.23		0.030	ppb v/v	TO15 LL
		trans-1,2-Dichloroethene	0.90		0.12	ug/m3	TO15 LL
		cis-1,2-Dichloroethene	7.3	D	0.20	ppb v/v	TO15 LL
		cis-1,2-Dichloroethene	29	D	0.79	ug/m3	TO15 LL
		1,2-Dichloroethene, Total	9.8		0.030	ppb v/v	TO15 LL
		1,2-Dichloroethene, Total	39		0.12	ug/m3	TO15 LL
		Trichloroethene	9.4	D	0.20	ppb v/v	TO15 LL
		Trichloroethene	50	D	1.1	ug/m3	TO15 LL
		Tetrachloroethene	0.26		0.030	ppb v/v	TO15 LL
		Tetrachloroethene	1.8		0.20	ug/m3	TO15 LL

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## METHOD SUMMARY

Client: Burns & McDonnell

Job Number: 200-12430-1

Description	Lab Location	Method	Preparation Method
<b>Matrix: Air</b>			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister
Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)	TAL BUR	EPA TO15 LL	
Collection via Summa Canister	TAL BUR		Summa Canister

### Lab References:

TAL BUR = TestAmerica Burlington

### Method References:

EPA = US Environmental Protection Agency

**METHOD / ANALYST SUMMARY**

Client: Burns & McDonnell

Job Number: 200-12430-1

<b>Method</b>	<b>Analyst</b>	<b>Analyst ID</b>
EPA TO-15	Desjardins, William R	WRD
EPA TO15 LL	Desjardins, William R	WRD

**US EPA ARCHIVE DOCUMENT**



Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-02

Lab Sample ID: 200-12430-13

Date Sampled: 08/24/2012 1552

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44377	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzm011.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	08/31/2012 1837			Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 1837			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	1.1		0.20	0.20
cis-1,2-Dichloroethene	43	E	0.20	0.20
1,2-Dichloroethene, Total	44		0.20	0.20
Trichloroethene	56	E	0.20	0.20
Tetrachloroethene	1.2		0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	4.4		0.79	0.79
cis-1,2-Dichloroethene	170	E	0.79	0.79
1,2-Dichloroethene, Total	170		0.79	0.79
Trichloroethene	300	E	1.1	1.1
Tetrachloroethene	8.2		1.4	1.4

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-02

Lab Sample ID: 200-12430-13

Date Sampled: 08/24/2012 1552

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44377	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzm012.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/31/2012 1931	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 1931			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	1.1	D	0.40	0.40
cis-1,2-Dichloroethene	43	D	0.40	0.40
1,2-Dichloroethene, Total	44	D	0.40	0.40
Trichloroethene	54	D	0.40	0.40
Tetrachloroethene	1.3	D	0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	4.2	D	1.6	1.6
cis-1,2-Dichloroethene	170	D	1.6	1.6
1,2-Dichloroethene, Total	170	D	1.6	1.6
Trichloroethene	290	D	2.1	2.1
Tetrachloroethene	8.5	D	2.7	2.7

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-02/FD

Lab Sample ID: 200-12430-14

Date Sampled: 08/24/2012 1552

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44377	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzm013.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	08/31/2012 2025			Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 2025			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	1.1		0.20	0.20
cis-1,2-Dichloroethene	43	E	0.20	0.20
1,2-Dichloroethene, Total	44		0.20	0.20
Trichloroethene	55	E	0.20	0.20
Tetrachloroethene	1.2		0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	4.3		0.79	0.79
cis-1,2-Dichloroethene	170	E	0.79	0.79
1,2-Dichloroethene, Total	180		0.79	0.79
Trichloroethene	290	E	1.1	1.1
Tetrachloroethene	8.2		1.4	1.4

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-02/FD

Lab Sample ID: 200-12430-14

Date Sampled: 08/24/2012 1552

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44377	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzm014.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/31/2012 2118	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 2118			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	1.0	D	0.40	0.40
cis-1,2-Dichloroethene	41	D	0.40	0.40
1,2-Dichloroethene, Total	42	D	0.40	0.40
Trichloroethene	51	D	0.40	0.40
Tetrachloroethene	1.2	D	0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	4.0	D	1.6	1.6
cis-1,2-Dichloroethene	160	D	1.6	1.6
1,2-Dichloroethene, Total	160	D	1.6	1.6
Trichloroethene	270	D	2.1	2.1
Tetrachloroethene	7.9	D	2.7	2.7

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-01

Lab Sample ID: 200-12433-3

Date Sampled: 08/22/2012 1410

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44377	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzm015.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	08/31/2012 2211			Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 2211			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	2.0		0.40	0.40
cis-1,2-Dichloroethene	29		0.40	0.40
1,2-Dichloroethene, Total	31		0.40	0.40
Trichloroethene	300	E	0.40	0.40
Tetrachloroethene	8.6		0.40	0.40

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	1.6	U	1.6	1.6
trans-1,2-Dichloroethene	7.9		1.6	1.6
cis-1,2-Dichloroethene	110		1.6	1.6
1,2-Dichloroethene, Total	120		1.6	1.6
Trichloroethene	1600	E	2.1	2.1
Tetrachloroethene	59		2.7	2.7

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-01

Lab Sample ID: 200-12433-3

Date Sampled: 08/22/2012 1410

Client Matrix: Air

Date Received: 08/27/2012 0940

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-44377	Instrument ID:	C.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	ckzm016.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	08/31/2012 2305	Run Type:	DL	Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 2305			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	2.0	U	2.0	2.0
1,1-Dichloroethene	2.0	U	2.0	2.0
trans-1,2-Dichloroethene	2.6	D	2.0	2.0
cis-1,2-Dichloroethene	37	D	2.0	2.0
1,2-Dichloroethene, Total	40	D	2.0	2.0
Trichloroethene	360	D	2.0	2.0
Tetrachloroethene	11	D	2.0	2.0

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	5.1	U	5.1	5.1
1,1-Dichloroethene	7.9	U	7.9	7.9
trans-1,2-Dichloroethene	10	D	7.9	7.9
cis-1,2-Dichloroethene	150	D	7.9	7.9
1,2-Dichloroethene, Total	160	D	7.9	7.9
Trichloroethene	1900	D	11	11
Tetrachloroethene	73	D	14	14

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**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12430-1

**Client Sample ID: IA-03**

Lab Sample ID: 200-12430-1

Date Sampled: 08/24/2012 1300

Client Matrix: Air

Date Received: 08/27/2012 0940

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz021.d
Dilution:	2.0			Initial Weight/Volume:	250 mL
Analysis Date:	08/30/2012 0840			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 0840			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.040	U	0.040	0.040
1,1-Dichloroethene	0.020	U	0.020	0.020
trans-1,2-Dichloroethene	0.020	U	0.020	0.020
cis-1,2-Dichloroethene	0.020	U	0.020	0.020
1,2-Dichloroethene, Total	0.020	U	0.020	0.020
Trichloroethene	0.46		0.020	0.020
Tetrachloroethene	0.045		0.020	0.020

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.10	U	0.10	0.10
1,1-Dichloroethene	0.079	U	0.079	0.079
trans-1,2-Dichloroethene	0.079	U	0.079	0.079
cis-1,2-Dichloroethene	0.079	U	0.079	0.079
1,2-Dichloroethene, Total	0.079	U	0.079	0.079
Trichloroethene	2.5		0.11	0.11
Tetrachloroethene	0.30		0.14	0.14

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-09

Lab Sample ID: 200-12430-2

Date Sampled: 08/24/2012 1107

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz022.d
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	08/30/2012 0934			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 0934			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.10	U	0.10	0.10
trans-1,2-Dichloroethene	0.10	U	0.10	0.10
cis-1,2-Dichloroethene	0.10	U	0.10	0.10
1,2-Dichloroethene, Total	0.10	U	0.10	0.10
Trichloroethene	0.10	U	0.10	0.10
Tetrachloroethene	0.33		0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	0.54	U	0.54	0.54
Tetrachloroethene	2.2		0.68	0.68

US EPA ARCHIVE DOCUMENT



**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12430-1

**Client Sample ID:** IA-16

Lab Sample ID: 200-12430-3

Date Sampled: 08/24/2012 1108

Client Matrix: Air

Date Received: 08/27/2012 0940

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz023.d
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	08/30/2012 1028			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 1028			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.10	U	0.10	0.10
trans-1,2-Dichloroethene	0.10	U	0.10	0.10
cis-1,2-Dichloroethene	0.10	U	0.10	0.10
1,2-Dichloroethene, Total	0.10	U	0.10	0.10
Trichloroethene	0.10	U	0.10	0.10
Tetrachloroethene	0.34		0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	0.40	U	0.40	0.40
1,2-Dichloroethene, Total	0.40	U	0.40	0.40
Trichloroethene	0.54	U	0.54	0.54
Tetrachloroethene	2.3		0.68	0.68

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12430-1

**Client Sample ID:** IA-01

Lab Sample ID: 200-12430-4

Date Sampled: 08/22/2012 1333

Client Matrix: Air

Date Received: 08/27/2012 0940

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44227	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevz026.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	08/30/2012 1310			Final Weight/Volume:	500 mL
Prep Date:	08/30/2012 1310			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.030	U	0.030	0.030
cis-1,2-Dichloroethene	0.030	U	0.030	0.030
1,2-Dichloroethene, Total	0.030	U	0.030	0.030
Trichloroethene	0.066		0.030	0.030
Tetrachloroethene	0.20		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.12	U	0.12	0.12
cis-1,2-Dichloroethene	0.12	U	0.12	0.12
1,2-Dichloroethene, Total	0.12	U	0.12	0.12
Trichloroethene	0.35		0.16	0.16
Tetrachloroethene	1.4		0.20	0.20

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12430-1

**Client Sample ID: IA-02**

Lab Sample ID: 200-12430-5

Date Sampled: 08/22/2012 1249

Client Matrix: Air

Date Received: 08/27/2012 0940

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa005.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/31/2012 1650			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 1650			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.078		0.010	0.010
Tetrachloroethene	0.061		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.42		0.054	0.054
Tetrachloroethene	0.41		0.068	0.068

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-05

Lab Sample ID: 200-12430-6

Date Sampled: 08/22/2012 1132

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa006.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	08/31/2012 1744			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 1744			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.030	U	0.030	0.030
cis-1,2-Dichloroethene	0.030	U	0.030	0.030
1,2-Dichloroethene, Total	0.030	U	0.030	0.030
Trichloroethene	0.17		0.030	0.030
Tetrachloroethene	0.11		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.12	U	0.12	0.12
cis-1,2-Dichloroethene	0.12	U	0.12	0.12
1,2-Dichloroethene, Total	0.12	U	0.12	0.12
Trichloroethene	0.91		0.16	0.16
Tetrachloroethene	0.72		0.20	0.20

US EPA ARCHIVE DOCUMENT

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-12

Lab Sample ID: 200-12430-7

Date Sampled: 08/22/2012 1133

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa007.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	08/31/2012 1838			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 1838			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.030	U	0.030	0.030
cis-1,2-Dichloroethene	0.030	U	0.030	0.030
1,2-Dichloroethene, Total	0.030	U	0.030	0.030
Trichloroethene	0.16		0.030	0.030
Tetrachloroethene	0.084		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.12	U	0.12	0.12
cis-1,2-Dichloroethene	0.12	U	0.12	0.12
1,2-Dichloroethene, Total	0.12	U	0.12	0.12
Trichloroethene	0.87		0.16	0.16
Tetrachloroethene	0.57		0.20	0.20

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-10

Lab Sample ID: 200-12430-8

Date Sampled: 08/24/2012 0832

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa008.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/31/2012 1932			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 1932			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.096		0.010	0.010
Tetrachloroethene	0.041		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.51		0.054	0.054
Tetrachloroethene	0.28		0.068	0.068

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: SUA-03

Lab Sample ID: 200-12430-9

Date Sampled: 08/24/2012 0833

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa009.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/31/2012 2026			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 2026			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.086		0.010	0.010
Tetrachloroethene	0.059		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.46		0.054	0.054
Tetrachloroethene	0.40		0.068	0.068

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Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-17

Lab Sample ID: 200-12430-10

Date Sampled: 08/24/2012 0833

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa010.d
Dilution:	1.0			Initial Weight/Volume:	500 mL
Analysis Date:	08/31/2012 2120			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 2120			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.074		0.010	0.010
Tetrachloroethene	0.046		0.010	0.010

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.40		0.054	0.054
Tetrachloroethene	0.31		0.068	0.068

US EPA ARCHIVE DOCUMENT



Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-08/FD

Lab Sample ID: 200-12430-11

Date Sampled: 08/24/2012 1553

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa011.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	08/31/2012 2214			Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 2214			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.24		0.030	0.030
cis-1,2-Dichloroethene	9.6	E	0.030	0.030
1,2-Dichloroethene, Total	9.9		0.030	0.030
Trichloroethene	12	E	0.030	0.030
Tetrachloroethene	0.28		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.96		0.12	0.12
cis-1,2-Dichloroethene	38	E	0.12	0.12
1,2-Dichloroethene, Total	39		0.12	0.12
Trichloroethene	65	E	0.16	0.16
Tetrachloroethene	1.9		0.20	0.20

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-08/FD

Lab Sample ID: 200-12430-11

Date Sampled: 08/24/2012 1553

Client Matrix: Air

Date Received: 08/27/2012 0940

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa012.d
Dilution:	20			Initial Weight/Volume:	25 mL
Analysis Date:	08/31/2012 2308	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	08/31/2012 2308			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.23	D	0.20	0.20
cis-1,2-Dichloroethene	11	D	0.20	0.20
1,2-Dichloroethene, Total	11	D	0.20	0.20
Trichloroethene	14	D	0.20	0.20
Tetrachloroethene	0.31	D	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.90	D	0.79	0.79
cis-1,2-Dichloroethene	43	D	0.79	0.79
1,2-Dichloroethene, Total	43	D	0.79	0.79
Trichloroethene	73	D	1.1	1.1
Tetrachloroethene	2.1	D	1.4	1.4

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Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-14

Lab Sample ID: 200-12430-12

Date Sampled: 08/24/2012 1607

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa013.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	09/01/2012 0002			Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0002			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.18		0.030	0.030
cis-1,2-Dichloroethene	7.1	E	0.030	0.030
1,2-Dichloroethene, Total	7.3		0.030	0.030
Trichloroethene	9.0	E	0.030	0.030
Tetrachloroethene	0.21		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.72		0.12	0.12
cis-1,2-Dichloroethene	28	E	0.12	0.12
1,2-Dichloroethene, Total	29		0.12	0.12
Trichloroethene	48	E	0.16	0.16
Tetrachloroethene	1.4		0.20	0.20

US EPA ARCHIVE DOCUMENT

**Analytical Data**

Client: Burns & McDonnell

Job Number: 200-12430-1

**Client Sample ID:** IA-14

Lab Sample ID: 200-12430-12

Date Sampled: 08/24/2012 1607

Client Matrix: Air

Date Received: 08/27/2012 0940

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa014.d
Dilution:	20			Initial Weight/Volume:	25 mL
Analysis Date:	09/01/2012 0056	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0056			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.21	D	0.20	0.20
cis-1,2-Dichloroethene	7.1	D	0.20	0.20
1,2-Dichloroethene, Total	7.3	D	0.20	0.20
Trichloroethene	9.0	D	0.20	0.20
Tetrachloroethene	0.22	D	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.85	D	0.79	0.79
cis-1,2-Dichloroethene	28	D	0.79	0.79
1,2-Dichloroethene, Total	29	D	0.79	0.79
Trichloroethene	48	D	1.1	1.1
Tetrachloroethene	1.5	D	1.4	1.4

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Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-07

Lab Sample ID: 200-12433-1

Date Sampled: 08/22/2012 1406

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa015.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	09/01/2012 0150			Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0150			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.044		0.030	0.030
cis-1,2-Dichloroethene	0.55		0.030	0.030
1,2-Dichloroethene, Total	0.59		0.030	0.030
Trichloroethene	5.7	E	0.030	0.030
Tetrachloroethene	0.21		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.18		0.12	0.12
cis-1,2-Dichloroethene	2.2		0.12	0.12
1,2-Dichloroethene, Total	2.4		0.12	0.12
Trichloroethene	31	E	0.16	0.16
Tetrachloroethene	1.4		0.20	0.20

US EPA ARCHIVE DOCUMENT

Analytical Data

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-07

Lab Sample ID: 200-12433-1

Date Sampled: 08/22/2012 1406

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa016.d
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	09/01/2012 0244	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0244			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.10	U	0.10	0.10
trans-1,2-Dichloroethene	0.10	U	0.10	0.10
cis-1,2-Dichloroethene	0.56	D	0.10	0.10
1,2-Dichloroethene, Total	0.56	D	0.10	0.10
Trichloroethene	5.8	D	0.10	0.10
Tetrachloroethene	0.21	D	0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	2.2	D	0.40	0.40
1,2-Dichloroethene, Total	2.2	D	0.40	0.40
Trichloroethene	31	D	0.54	0.54
Tetrachloroethene	1.4	D	0.68	0.68

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Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-15

Lab Sample ID: 200-12433-2

Date Sampled: 08/22/2012 1408

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa017.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	09/01/2012 0338			Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0338			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.038		0.030	0.030
cis-1,2-Dichloroethene	0.53		0.030	0.030
1,2-Dichloroethene, Total	0.57		0.030	0.030
Trichloroethene	5.4	E	0.030	0.030
Tetrachloroethene	0.20		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.15		0.12	0.12
cis-1,2-Dichloroethene	2.1		0.12	0.12
1,2-Dichloroethene, Total	2.3		0.12	0.12
Trichloroethene	29	E	0.16	0.16
Tetrachloroethene	1.3		0.20	0.20

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Analytical Data

Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-15

Lab Sample ID: 200-12433-2

Date Sampled: 08/22/2012 1408

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa018.d
Dilution:	10			Initial Weight/Volume:	50 mL
Analysis Date:	09/01/2012 0432	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0432			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.10	U	0.10	0.10
trans-1,2-Dichloroethene	0.10	U	0.10	0.10
cis-1,2-Dichloroethene	0.53	D	0.10	0.10
1,2-Dichloroethene, Total	0.53	D	0.10	0.10
Trichloroethene	5.4	D	0.10	0.10
Tetrachloroethene	0.19	D	0.10	0.10

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.40	U	0.40	0.40
trans-1,2-Dichloroethene	0.40	U	0.40	0.40
cis-1,2-Dichloroethene	2.1	D	0.40	0.40
1,2-Dichloroethene, Total	2.1	D	0.40	0.40
Trichloroethene	29	D	0.54	0.54
Tetrachloroethene	1.3	D	0.68	0.68

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Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-08

Lab Sample ID: 200-12433-4

Date Sampled: 08/23/2012 1553

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa019.d
Dilution:	2.99			Initial Weight/Volume:	167 mL
Analysis Date:	09/01/2012 0527			Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0527			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.060	U	0.060	0.060
1,1-Dichloroethene	0.030	U	0.030	0.030
trans-1,2-Dichloroethene	0.23		0.030	0.030
cis-1,2-Dichloroethene	9.5	E	0.030	0.030
1,2-Dichloroethene, Total	9.8		0.030	0.030
Trichloroethene	12	E	0.030	0.030
Tetrachloroethene	0.26		0.030	0.030

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	0.15	U	0.15	0.15
1,1-Dichloroethene	0.12	U	0.12	0.12
trans-1,2-Dichloroethene	0.90		0.12	0.12
cis-1,2-Dichloroethene	38	E	0.12	0.12
1,2-Dichloroethene, Total	39		0.12	0.12
Trichloroethene	67	E	0.16	0.16
Tetrachloroethene	1.8		0.20	0.20

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Client: Burns & McDonnell

Job Number: 200-12430-1

Client Sample ID: IA-08

Lab Sample ID: 200-12433-4

Date Sampled: 08/23/2012 1553

Client Matrix: Air

Date Received: 08/27/2012 0940

TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)

Analysis Method:	TO15 LL	Analysis Batch:	200-44387	Instrument ID:	E.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	eevaa020.d
Dilution:	20			Initial Weight/Volume:	25 mL
Analysis Date:	09/01/2012 0621	Run Type:	DL	Final Weight/Volume:	500 mL
Prep Date:	09/01/2012 0621			Injection Volume:	500 mL

Analyte	Result (ppb v/v)	Qualifier	RL	RL
Vinyl chloride	0.40	U	0.40	0.40
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.22	D	0.20	0.20
cis-1,2-Dichloroethene	7.3	D	0.20	0.20
1,2-Dichloroethene, Total	7.5	D	0.20	0.20
Trichloroethene	9.4	D	0.20	0.20
Tetrachloroethene	0.21	D	0.20	0.20

Analyte	Result (ug/m3)	Qualifier	RL	RL
Vinyl chloride	1.0	U	1.0	1.0
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.87	D	0.79	0.79
cis-1,2-Dichloroethene	29	D	0.79	0.79
1,2-Dichloroethene, Total	30	D	0.79	0.79
Trichloroethene	50	D	1.1	1.1
Tetrachloroethene	1.4	D	1.4	1.4

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Method Blank - Batch: 200-44377

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID: MB 200-44377/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/31/2012 1201  
Prep Date: 08/31/2012 1201  
Leach Date: N/A

Analysis Batch: 200-44377  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: C.i  
Lab File ID: ckzm004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.20	U	0.20	0.20
1,1-Dichloroethene	0.20	U	0.20	0.20
trans-1,2-Dichloroethene	0.20	U	0.20	0.20
cis-1,2-Dichloroethene	0.20	U	0.20	0.20
1,2-Dichloroethene, Total	0.20	U	0.20	0.20
Trichloroethene	0.20	U	0.20	0.20
Tetrachloroethene	0.20	U	0.20	0.20

Method Blank - Batch: 200-44377

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID: MB 200-44377/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/31/2012 1201  
Prep Date: 08/31/2012 1201  
Leach Date: N/A

Analysis Batch: 200-44377  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

Instrument ID: C.i  
Lab File ID: ckzm004.d  
Initial Weight/Volume: 200 mL  
Final Weight/Volume: 200 mL  
Injection Volume: 200 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.51	U	0.51	0.51
1,1-Dichloroethene	0.79	U	0.79	0.79
trans-1,2-Dichloroethene	0.79	U	0.79	0.79
cis-1,2-Dichloroethene	0.79	U	0.79	0.79
1,2-Dichloroethene, Total	0.79	U	0.79	0.79
Trichloroethene	1.1	U	1.1	1.1
Tetrachloroethene	1.4	U	1.4	1.4

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Control Sample - Batch: 200-44377

Method: TO-15  
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44377/3	Analysis Batch:	200-44377	Instrument ID:	C.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	ckzm003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	08/31/2012 1108	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	08/31/2012 1108			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	10.0	9.02	90	70 - 130	
1,1-Dichloroethene	10.0	10.2	102	70 - 130	
trans-1,2-Dichloroethene	10.0	9.20	92	70 - 130	
cis-1,2-Dichloroethene	10.0	9.31	93	70 - 130	
Trichloroethene	10.0	9.16	92	70 - 130	
Tetrachloroethene	10.0	9.42	94	70 - 130	

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Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Method Blank - Batch: 200-44227

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID: MB 200-44227/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/29/2012 1716  
Prep Date: 08/29/2012 1716  
Leach Date: N/A

Analysis Batch: 200-44227  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: E.i  
Lab File ID: eevz004.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.010	U	0.010	0.010
Tetrachloroethene	0.010	U	0.010	0.010

Method Blank - Batch: 200-44227

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID: MB 200-44227/4  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/29/2012 1716  
Prep Date: 08/29/2012 1716  
Leach Date: N/A

Analysis Batch: 200-44227  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ug/m3

Instrument ID: E.i  
Lab File ID: eevz004.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.054	U	0.054	0.054
Tetrachloroethene	0.068	U	0.068	0.068

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Control Sample - Batch: 200-44227

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID:	LCS 200-44227/3	Analysis Batch:	200-44227	Instrument ID:	E.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	eevz003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	08/29/2012 1622	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	08/29/2012 1622			Injection Volume:	500 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.187	93	70 - 130	
1,1-Dichloroethene	0.200	0.210	105	70 - 130	
trans-1,2-Dichloroethene	0.200	0.185	93	70 - 130	
cis-1,2-Dichloroethene	0.200	0.183	91	70 - 130	
Trichloroethene	0.200	0.168	84	70 - 130	
Tetrachloroethene	0.200	0.146	73	70 - 130	

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Method Blank - Batch: 200-44387

Lab Sample ID: MB 200-44387/4  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 08/31/2012 1556  
 Prep Date: 08/31/2012 1556  
 Leach Date: N/A

Analysis Batch: 200-44387  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ppb v/v

Method: TO15 LL  
 Preparation: Summa Canister

Instrument ID: E.i  
 Lab File ID: eeavaa004.d  
 Initial Weight/Volume: 500 mL  
 Final Weight/Volume: 500 mL  
 Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.020	U	0.020	0.020
1,1-Dichloroethene	0.010	U	0.010	0.010
trans-1,2-Dichloroethene	0.010	U	0.010	0.010
cis-1,2-Dichloroethene	0.010	U	0.010	0.010
1,2-Dichloroethene, Total	0.010	U	0.010	0.010
Trichloroethene	0.010	U	0.010	0.010
Tetrachloroethene	0.010	U	0.010	0.010

Method Blank - Batch: 200-44387

Lab Sample ID: MB 200-44387/4  
 Client Matrix: Air  
 Dilution: 1.0  
 Analysis Date: 08/31/2012 1556  
 Prep Date: 08/31/2012 1556  
 Leach Date: N/A

Analysis Batch: 200-44387  
 Prep Batch: N/A  
 Leach Batch: N/A  
 Units: ug/m3

Method: TO15 LL  
 Preparation: Summa Canister

Instrument ID: E.i  
 Lab File ID: eeavaa004.d  
 Initial Weight/Volume: 500 mL  
 Final Weight/Volume: 500 mL  
 Injection Volume: 500 mL

Analyte	Result	Qual	RL	RL
Vinyl chloride	0.051	U	0.051	0.051
1,1-Dichloroethene	0.040	U	0.040	0.040
trans-1,2-Dichloroethene	0.040	U	0.040	0.040
cis-1,2-Dichloroethene	0.040	U	0.040	0.040
1,2-Dichloroethene, Total	0.040	U	0.040	0.040
Trichloroethene	0.054	U	0.054	0.054
Tetrachloroethene	0.068	U	0.068	0.068

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Lab Control Sample - Batch: 200-44387

Method: TO15 LL  
Preparation: Summa Canister

Lab Sample ID: LCS 200-44387/3  
Client Matrix: Air  
Dilution: 1.0  
Analysis Date: 08/31/2012 1501  
Prep Date: 08/31/2012 1501  
Leach Date: N/A

Analysis Batch: 200-44387  
Prep Batch: N/A  
Leach Batch: N/A  
Units: ppb v/v

Instrument ID: E.i  
Lab File ID: eeavaa003.d  
Initial Weight/Volume: 500 mL  
Final Weight/Volume: 500 mL  
Injection Volume: 500 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Vinyl chloride	0.200	0.186	93	70 - 130	
1,1-Dichloroethene	0.200	0.209	104	70 - 130	
trans-1,2-Dichloroethene	0.200	0.192	96	70 - 130	
cis-1,2-Dichloroethene	0.200	0.195	98	70 - 130	
Trichloroethene	0.200	0.182	91	70 - 130	
Tetrachloroethene	0.200	0.155	77	70 - 130	

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## DATA REPORTING QUALIFIERS

Client: Burns & McDonnell

Job Number: 200-12430-1

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

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
<b>Air - GC/MS VOA</b>					
<b>Analysis Batch:200-44227</b>					
LCS 200-44227/3	Lab Control Sample	T	Air	TO15 LL	
MB 200-44227/4	Method Blank	T	Air	TO15 LL	
200-12430-1	IA-03	T	Air	TO15 LL	
200-12430-2	IA-09	T	Air	TO15 LL	
200-12430-3	IA-16	T	Air	TO15 LL	
200-12430-4	IA-01	T	Air	TO15 LL	
<b>Analysis Batch:200-44377</b>					
LCS 200-44377/3	Lab Control Sample	T	Air	TO-15	
MB 200-44377/4	Method Blank	T	Air	TO-15	
200-12430-13	SUA-02	T	Air	TO-15	
200-12430-13DL	SUA-02	T	Air	TO-15	
200-12430-14	SUA-02/FD	T	Air	TO-15	
200-12430-14DL	SUA-02/FD	T	Air	TO-15	
200-12433-3	SUA-01	T	Air	TO-15	
200-12433-3DL	SUA-01	T	Air	TO-15	
<b>Analysis Batch:200-44387</b>					
LCS 200-44387/3	Lab Control Sample	T	Air	TO15 LL	
MB 200-44387/4	Method Blank	T	Air	TO15 LL	
200-12430-5	IA-02	T	Air	TO15 LL	
200-12430-6	IA-05	T	Air	TO15 LL	
200-12430-7	IA-12	T	Air	TO15 LL	
200-12430-8	IA-10	T	Air	TO15 LL	
200-12430-9	SUA-03	T	Air	TO15 LL	
200-12430-10	IA-17	T	Air	TO15 LL	
200-12430-11	IA-08/FD	T	Air	TO15 LL	
200-12430-11DL	IA-08/FD	T	Air	TO15 LL	
200-12430-12	IA-14	T	Air	TO15 LL	
200-12430-12DL	IA-14	T	Air	TO15 LL	
200-12433-1	IA-07	T	Air	TO15 LL	
200-12433-1DL	IA-07	T	Air	TO15 LL	
200-12433-2	IA-15	T	Air	TO15 LL	
200-12433-2DL	IA-15	T	Air	TO15 LL	
200-12433-4	IA-08	T	Air	TO15 LL	
200-12433-4DL	IA-08	T	Air	TO15 LL	

Report Basis

T = Total

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Laboratory Chronicle

Lab ID: 200-12430-1

Client ID: IA-03

Sample Date/Time: 08/24/2012 13:00

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-1		200-44227		08/30/2012 08:40	2	TAL BUR	WRD
A:TO15 LL	200-12430-A-1		200-44227		08/30/2012 08:40	2	TAL BUR	WRD

Lab ID: 200-12430-2

Client ID: IA-09

Sample Date/Time: 08/24/2012 11:07

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-2		200-44227		08/30/2012 09:34	10	TAL BUR	WRD
A:TO15 LL	200-12430-A-2		200-44227		08/30/2012 09:34	10	TAL BUR	WRD

Lab ID: 200-12430-3

Client ID: IA-16

Sample Date/Time: 08/24/2012 11:08

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-3		200-44227		08/30/2012 10:28	10	TAL BUR	WRD
A:TO15 LL	200-12430-A-3		200-44227		08/30/2012 10:28	10	TAL BUR	WRD

Lab ID: 200-12430-4

Client ID: IA-01

Sample Date/Time: 08/22/2012 13:33

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-4		200-44227		08/30/2012 13:10	2.99	TAL BUR	WRD
A:TO15 LL	200-12430-A-4		200-44227		08/30/2012 13:10	2.99	TAL BUR	WRD

Lab ID: 200-12430-5

Client ID: IA-02

Sample Date/Time: 08/22/2012 12:49

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-5		200-44387		08/31/2012 16:50	1	TAL BUR	WRD
A:TO15 LL	200-12430-A-5		200-44387		08/31/2012 16:50	1	TAL BUR	WRD

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Laboratory Chronicle

Lab ID: 200-12430-6

Client ID: IA-05

Sample Date/Time: 08/22/2012 11:32

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-6		200-44387		08/31/2012 17:44	2.99	TAL BUR	WRD
A:TO15 LL	200-12430-A-6		200-44387		08/31/2012 17:44	2.99	TAL BUR	WRD

Lab ID: 200-12430-7

Client ID: IA-12

Sample Date/Time: 08/22/2012 11:33

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-7		200-44387		08/31/2012 18:38	2.99	TAL BUR	WRD
A:TO15 LL	200-12430-A-7		200-44387		08/31/2012 18:38	2.99	TAL BUR	WRD

Lab ID: 200-12430-8

Client ID: IA-10

Sample Date/Time: 08/24/2012 08:32

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-8		200-44387		08/31/2012 19:32	1	TAL BUR	WRD
A:TO15 LL	200-12430-A-8		200-44387		08/31/2012 19:32	1	TAL BUR	WRD

Lab ID: 200-12430-9

Client ID: SUA-03

Sample Date/Time: 08/24/2012 08:33

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-9		200-44387		08/31/2012 20:26	1	TAL BUR	WRD
A:TO15 LL	200-12430-A-9		200-44387		08/31/2012 20:26	1	TAL BUR	WRD

Lab ID: 200-12430-10

Client ID: IA-17

Sample Date/Time: 08/24/2012 08:33

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-10		200-44387		08/31/2012 21:20	1	TAL BUR	WRD
A:TO15 LL	200-12430-A-10		200-44387		08/31/2012 21:20	1	TAL BUR	WRD

US EPA ARCHIVE DOCUMENT

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Laboratory Chronicle

Lab ID: 200-12430-11

Client ID: IA-08/FD

Sample Date/Time: 08/24/2012 15:53

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-11		200-44387		08/31/2012 22:14	2.99	TAL BUR	WRD
A:TO15 LL	200-12430-A-11		200-44387		08/31/2012 22:14	2.99	TAL BUR	WRD
P:Summa Canister	200-12430-A-11	DL	200-44387		08/31/2012 23:08	20	TAL BUR	WRD
A:TO15 LL	200-12430-A-11	DL	200-44387		08/31/2012 23:08	20	TAL BUR	WRD

Lab ID: 200-12430-12

Client ID: IA-14

Sample Date/Time: 08/24/2012 16:07

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-12		200-44387		09/01/2012 00:02	2.99	TAL BUR	WRD
A:TO15 LL	200-12430-A-12		200-44387		09/01/2012 00:02	2.99	TAL BUR	WRD
P:Summa Canister	200-12430-A-12	DL	200-44387		09/01/2012 00:56	20	TAL BUR	WRD
A:TO15 LL	200-12430-A-12	DL	200-44387		09/01/2012 00:56	20	TAL BUR	WRD

Lab ID: 200-12430-13

Client ID: SUA-02

Sample Date/Time: 08/24/2012 15:52

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-13		200-44377		08/31/2012 18:37	1	TAL BUR	WRD
A:TO-15	200-12430-A-13		200-44377		08/31/2012 18:37	1	TAL BUR	WRD
P:Summa Canister	200-12430-A-13	DL	200-44377		08/31/2012 19:31	2	TAL BUR	WRD
A:TO-15	200-12430-A-13	DL	200-44377		08/31/2012 19:31	2	TAL BUR	WRD

Lab ID: 200-12430-14

Client ID: SUA-02/FD

Sample Date/Time: 08/24/2012 15:52

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12430-A-14		200-44377		08/31/2012 20:25	1	TAL BUR	WRD
A:TO-15	200-12430-A-14		200-44377		08/31/2012 20:25	1	TAL BUR	WRD
P:Summa Canister	200-12430-A-14	DL	200-44377		08/31/2012 21:18	2	TAL BUR	WRD
A:TO-15	200-12430-A-14	DL	200-44377		08/31/2012 21:18	2	TAL BUR	WRD

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Laboratory Chronicle

Lab ID: 200-12433-1

Client ID: IA-07

Sample Date/Time: 08/22/2012 14:06

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12433-A-1		200-44387		09/01/2012 01:50	2.99	TAL BUR	WRD
A:TO15 LL	200-12433-A-1		200-44387		09/01/2012 01:50	2.99	TAL BUR	WRD
P:Summa Canister	200-12433-A-1	DL	200-44387		09/01/2012 02:44	10	TAL BUR	WRD
A:TO15 LL	200-12433-A-1	DL	200-44387		09/01/2012 02:44	10	TAL BUR	WRD

Lab ID: 200-12433-2

Client ID: IA-15

Sample Date/Time: 08/22/2012 14:08

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12433-A-2		200-44387		09/01/2012 03:38	2.99	TAL BUR	WRD
A:TO15 LL	200-12433-A-2		200-44387		09/01/2012 03:38	2.99	TAL BUR	WRD
P:Summa Canister	200-12433-A-2	DL	200-44387		09/01/2012 04:32	10	TAL BUR	WRD
A:TO15 LL	200-12433-A-2	DL	200-44387		09/01/2012 04:32	10	TAL BUR	WRD

Lab ID: 200-12433-3

Client ID: SUA-01

Sample Date/Time: 08/22/2012 14:10

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12433-A-3		200-44377		08/31/2012 22:11	2	TAL BUR	WRD
A:TO-15	200-12433-A-3		200-44377		08/31/2012 22:11	2	TAL BUR	WRD
P:Summa Canister	200-12433-A-3	DL	200-44377		08/31/2012 23:05	10	TAL BUR	WRD
A:TO-15	200-12433-A-3	DL	200-44377		08/31/2012 23:05	10	TAL BUR	WRD

Lab ID: 200-12433-4

Client ID: IA-08

Sample Date/Time: 08/23/2012 15:53

Received Date/Time: 08/27/2012 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	200-12433-A-4		200-44387		09/01/2012 05:27	2.99	TAL BUR	WRD
A:TO15 LL	200-12433-A-4		200-44387		09/01/2012 05:27	2.99	TAL BUR	WRD
P:Summa Canister	200-12433-A-4	DL	200-44387		09/01/2012 06:21	20	TAL BUR	WRD
A:TO15 LL	200-12433-A-4	DL	200-44387		09/01/2012 06:21	20	TAL BUR	WRD

Quality Control Results

Client: Burns & McDonnell

Job Number: 200-12430-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-44377/4		200-44377		08/31/2012 12:01	1	TAL BUR	WRD
A:TO-15	MB 200-44377/4		200-44377		08/31/2012 12:01	1	TAL BUR	WRD
P:Summa Canister	MB 200-44227/4		200-44227		08/29/2012 17:16	1	TAL BUR	WRD
A:TO15 LL	MB 200-44227/4		200-44227		08/29/2012 17:16	1	TAL BUR	WRD
P:Summa Canister	MB 200-44387/4		200-44387		08/31/2012 15:56	1	TAL BUR	WRD
A:TO15 LL	MB 200-44387/4		200-44387		08/31/2012 15:56	1	TAL BUR	WRD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-44377/3		200-44377		08/31/2012 11:08	1	TAL BUR	WRD
A:TO-15	LCS 200-44377/3		200-44377		08/31/2012 11:08	1	TAL BUR	WRD
P:Summa Canister	LCS 200-44227/3		200-44227		08/29/2012 16:22	1	TAL BUR	WRD
A:TO15 LL	LCS 200-44227/3		200-44227		08/29/2012 16:22	1	TAL BUR	WRD
P:Summa Canister	LCS 200-44387/3		200-44387		08/31/2012 15:01	1	TAL BUR	WRD
A:TO15 LL	LCS 200-44387/3		200-44387		08/31/2012 15:01	1	TAL BUR	WRD

Lab References:

TAL BUR = TestAmerica Burlington

US EPA ARCHIVE DOCUMENT

# Certification Summary

Client: Burns & McDonnell  
Project/Site: PKI/26682-3.20.20 - Air

TestAmerica Job ID: 200-12430-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Burlington	ACCLASS	DoD ELAP		ADE-1492
TestAmerica Burlington	Connecticut	State Program	1	PH-0751
TestAmerica Burlington	DE Haz. Subst. Cleanup Act	State Program	3	NA
TestAmerica Burlington	Florida	NELAC	4	E87467
TestAmerica Burlington	Louisiana	NELAC	6	176292
TestAmerica Burlington	Maine	State Program	1	VT00008
TestAmerica Burlington	Minnesota	NELAC	5	050-999-436
TestAmerica Burlington	New Hampshire	NELAC	1	200610
TestAmerica Burlington	New Jersey	NELAC	2	VT972
TestAmerica Burlington	New York	NELAC	2	10391
TestAmerica Burlington	Pennsylvania	NELAC	3	68-00489
TestAmerica Burlington	Rhode Island	State Program	1	LAO00298
TestAmerica Burlington	USDA	Federal		P330-11-00093
TestAmerica Burlington	Vermont	State Program	1	VT-4000
TestAmerica Burlington	Virginia	NELAC	3	460209

Accreditation may not be offered or required for all methods and analytes reported in this package Please contact your project manager for the laboratory's current list of certified methods and analytes.



# Method T015 Low Level

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Volatile Organic Compounds - Low  
level (GC/MS) by Method TO 15

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: eevz003.d  
 Lab ID: LCS 200-44227/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.187	93	70-130	
1,1-Dichloroethene	0.200	0.210	105	70-130	
trans-1,2-Dichloroethene	0.200	0.185	93	70-130	
cis-1,2-Dichloroethene	0.200	0.183	91	70-130	
Trichloroethene	0.200	0.168	84	70-130	
Tetrachloroethene	0.200	0.146	73	70-130	

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# Column to be used to flag recovery and RPD values

FORM III T015 LL

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: eevaa003.d  
 Lab ID: LCS 200-44387/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	0.200	0.186	93	70-130	
1,1-Dichloroethene	0.200	0.209	104	70-130	
trans-1,2-Dichloroethene	0.200	0.192	96	70-130	
cis-1,2-Dichloroethene	0.200	0.195	98	70-130	
Trichloroethene	0.200	0.182	91	70-130	
Tetrachloroethene	0.200	0.155	77	70-130	

US EPA ARCHIVE DOCUMENT

# Column to be used to flag recovery and RPD values

FORM III T015 LL

FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevz004.d Lab Sample ID: MB 200-44227/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: E.i Date Analyzed: 08/29/2012 17:16  
 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 200-44227/3	eevz003.d	08/29/2012 16:22
IA-03	200-12430-1	eevz021.d	08/30/2012 08:40
IA-09	200-12430-2	eevz022.d	08/30/2012 09:34
IA-16	200-12430-3	eevz023.d	08/30/2012 10:28
IA-01	200-12430-4	eevz026.d	08/30/2012 13:10

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FORM IV  
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevaa004.d Lab Sample ID: MB 200-44387/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: E.i Date Analyzed: 08/31/2012 15:56  
 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 200-44387/3	eevaa003.d	08/31/2012 15:01
IA-02	200-12430-5	eevaa005.d	08/31/2012 16:50
IA-05	200-12430-6	eevaa006.d	08/31/2012 17:44
IA-12	200-12430-7	eevaa007.d	08/31/2012 18:38
IA-10	200-12430-8	eevaa008.d	08/31/2012 19:32
SUA-03	200-12430-9	eevaa009.d	08/31/2012 20:26
IA-17	200-12430-10	eevaa010.d	08/31/2012 21:20
IA-08/FD	200-12430-11	eevaa011.d	08/31/2012 22:14
IA-08/FD DL	200-12430-11 DL	eevaa012.d	08/31/2012 23:08
IA-14	200-12430-12	eevaa013.d	09/01/2012 00:02
IA-14 DL	200-12430-12 DL	eevaa014.d	09/01/2012 00:56
IA-07	200-12433-1	eevaa015.d	09/01/2012 01:50
IA-07 DL	200-12433-1 DL	eevaa016.d	09/01/2012 02:44
IA-15	200-12433-2	eevaa017.d	09/01/2012 03:38
IA-15 DL	200-12433-2 DL	eevaa018.d	09/01/2012 04:32
IA-08	200-12433-4	eevaa019.d	09/01/2012 05:27
IA-08 DL	200-12433-4 DL	eevaa020.d	09/01/2012 06:21

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eev001.d BFB Injection Date: 05/07/2012  
 Instrument ID: E.i BFB Injection Time: 13:39  
 Analysis Batch No.: 38293

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.5	
75	30.0 - 66.0% of mass 95	48.1	
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	0.4	(0.4) 1
174	50.0 - 120.0% of mass 95	92.4	
175	4.0 - 9.0 % of mass 174	6.1	(6.6) 1
176	93.0 - 101.0% of mass 174	88.9	(96.1) 1
177	5.0 - 9.0% of mass 176	5.6	(6.3) 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 200-38293/3	eev003.d	05/07/2012	15:17
	IC 200-38293/4	eev004.d	05/07/2012	16:11
	IC 200-38293/5	eev005.d	05/07/2012	17:05
	IC 200-38293/6	eev006.d	05/07/2012	17:58
	ICIS 200-38293/7	eev007.d	05/07/2012	18:52
	IC 200-38293/8	eev008.d	05/07/2012	19:46
	IC 200-38293/9	eev009.d	05/07/2012	20:40
	IC 200-38293/10	eev010.d	05/07/2012	21:34
	IC 200-38293/11	eev011.d	05/07/2012	22:29
	IC 200-38293/12	eev012.d	05/07/2012	23:23
	ICV 200-38293/14	eev014.d	05/08/2012	01:12

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevz001.d BFB Injection Date: 08/29/2012  
 Instrument ID: E.i BFB Injection Time: 13:17  
 Analysis Batch No.: 44227

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	17.2	
75	30.0 - 66.0% of mass 95	48.9	
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	0.4	(0.5) 1
174	50.0 - 120.0% of mass 95	82.0	
175	4.0 - 9.0 % of mass 174	5.6	(6.8) 1
176	93.0 - 101.0% of mass 174	80.2	(97.8) 1
177	5.0 - 9.0% of mass 176	5.4	(6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 200-44227/2	eevz002.d	08/29/2012	15:28
	LCS 200-44227/3	eevz003.d	08/29/2012	16:22
	MB 200-44227/4	eevz004.d	08/29/2012	17:16
IA-03	200-12430-1	eevz021.d	08/30/2012	08:40
IA-09	200-12430-2	eevz022.d	08/30/2012	09:34
IA-16	200-12430-3	eevz023.d	08/30/2012	10:28
IA-01	200-12430-4	eevz026.d	08/30/2012	13:10

US EPA ARCHIVE DOCUMENT

FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: eevaa001.d BFB Injection Date: 08/31/2012  
 Instrument ID: E.i BFB Injection Time: 13:17  
 Analysis Batch No.: 44387

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	17.1	
75	30.0 - 66.0% of mass 95	49.1	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	7.0	
173	Less than 2.0% of mass 174	0.4	(0.5) 1
174	50.0 - 120.0% of mass 95	81.5	
175	4.0 - 9.0 % of mass 174	5.7	(6.9) 1
176	93.0 - 101.0% of mass 174	78.3	(96.0) 1
177	5.0 - 9.0% of mass 176	5.2	(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 200-44387/2	eevaa002.d	08/31/2012	14:07
	LCS 200-44387/3	eevaa003.d	08/31/2012	15:01
	MB 200-44387/4	eevaa004.d	08/31/2012	15:56
IA-02	200-12430-5	eevaa005.d	08/31/2012	16:50
IA-05	200-12430-6	eevaa006.d	08/31/2012	17:44
IA-12	200-12430-7	eevaa007.d	08/31/2012	18:38
IA-10	200-12430-8	eevaa008.d	08/31/2012	19:32
SUA-03	200-12430-9	eevaa009.d	08/31/2012	20:26
IA-17	200-12430-10	eevaa010.d	08/31/2012	21:20
IA-08/FD	200-12430-11	eevaa011.d	08/31/2012	22:14
IA-08/FD DL	200-12430-11 DL	eevaa012.d	08/31/2012	23:08
IA-14	200-12430-12	eevaa013.d	09/01/2012	00:02
IA-14 DL	200-12430-12 DL	eevaa014.d	09/01/2012	00:56
IA-07	200-12433-1	eevaa015.d	09/01/2012	01:50
IA-07 DL	200-12433-1 DL	eevaa016.d	09/01/2012	02:44
IA-15	200-12433-2	eevaa017.d	09/01/2012	03:38
IA-15 DL	200-12433-2 DL	eevaa018.d	09/01/2012	04:32
IA-08	200-12433-4	eevaa019.d	09/01/2012	05:27
IA-08 DL	200-12433-4 DL	eevaa020.d	09/01/2012	06:21

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FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-38293/7 Date Analyzed: 05/07/2012 18:52  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eev007.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	389908	9.97	1797832	11.41	1556233	15.53
UPPER LIMIT	545871	10.30	2516965	11.74	2178726	15.86
LOWER LIMIT	233945	9.64	1078699	11.08	933740	15.20
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-38293/14	481465	9.97	2242763	11.41	1959687	15.53

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44227/2 Date Analyzed: 08/29/2012 15:28  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eevz002.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	569772	9.95	2666806	11.40	2286741	15.52	
UPPER LIMIT	797681	10.28	3733528	11.73	3201437	15.85	
LOWER LIMIT	341863	9.62	1600084	11.07	1372045	15.19	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44227/3	512849	9.95	2353512	11.40	2120123	15.51	
MB 200-44227/4	406891	9.95	2271295	11.40	1469151	15.52	
200-12430-1	IA-03	524229	9.95	2504015	11.40	2267781	15.52
200-12430-2	IA-09	587956	9.95	2703898	11.40	2411857	15.52
200-12430-3	IA-16	605928	9.95	2872158	11.40	2553211	15.52
200-12430-4	IA-01	606392	9.95	2797293	11.40	2547546	15.52

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO15 LL

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FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44387/2 Date Analyzed: 08/31/2012 14:07  
 Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): eevaa002.d Heated Purge: (Y/N) N  
 Calibration ID: 15112

	BCM		DFB		CBZ		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	587054	9.95	2723849	11.40	2390425	15.52	
UPPER LIMIT	821876	10.28	3813389	11.73	3346595	15.85	
LOWER LIMIT	352232	9.62	1634309	11.07	1434255	15.19	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 200-44387/3	559165	9.95	2623453	11.40	2309113	15.52	
MB 200-44387/4	423776	9.95	2272389	11.40	1547832	15.52	
200-12430-5	IA-02	507635	9.95	2504762	11.40	2266010	15.52
200-12430-6	IA-05	583530	9.96	2781295	11.40	2500802	15.52
200-12430-7	IA-12	613551	9.95	2982966	11.40	2729857	15.52
200-12430-8	IA-10	642791	9.96	3046461	11.40	2851031	15.52
200-12430-9	SUA-03	697953	9.95	3340324	11.40	3018151	15.52
200-12430-10	IA-17	689312	9.96	3213857	11.40	2934772	15.52
200-12430-11	IA-08/FD	623365	9.95	2977151	11.40	2673353	15.52
200-12430-11 DL	IA-08/FD DL	671013	9.95	3246856	11.40	2813578	15.52
200-12430-12	IA-14	628949	9.96	3034930	11.40	2765623	15.52
200-12430-12 DL	IA-14 DL	635568	9.95	3068620	11.40	2665195	15.52
200-12433-1	IA-07	622629	9.96	2887821	11.40	2596761	15.52
200-12433-1 DL	IA-07 DL	638156	9.95	3048877	11.40	2687954	15.52
200-12433-2	IA-15	601179	9.96	2846695	11.40	2572069	15.52
200-12433-2 DL	IA-15 DL	601312	9.96	2900588	11.40	2537849	15.52
200-12433-4	IA-08	581718	9.96	2702330	11.40	2406082	15.52
200-12433-4 DL	IA-08 DL	585880	9.95	2828035	11.40	2423389	15.52

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = Chlorobenzene-d5

RT Limit = ± 0.33 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM VIII TO15 LL

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-03 Lab Sample ID: 200-12430-1  
 Matrix: Air Lab File ID: eevz021.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 13:00  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/30/2012 08:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	96.94	0.020	U	0.020	0.020
156-60-5	trans-1,2-Dichloroethene	96.94	0.020	U	0.020	0.020
156-59-2	cis-1,2-Dichloroethene	96.94	0.020	U	0.020	0.020
540-59-0	1,2-Dichloroethene, Total	96.94	0.020	U	0.020	0.020
79-01-6	Trichloroethene	131.39	0.46		0.020	0.020
127-18-4	Tetrachloroethene	165.83	0.045		0.020	0.020

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-03 Lab Sample ID: 200-12430-1  
 Matrix: Air Lab File ID: eevz021.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 13:00  
 Sample wt/vol: 250 (mL) Date Analyzed: 08/30/2012 08:40  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.10	U	0.10	0.10
75-35-4	1,1-Dichloroethene	96.94	0.079	U	0.079	0.079
156-60-5	trans-1,2-Dichloroethene	96.94	0.079	U	0.079	0.079
156-59-2	cis-1,2-Dichloroethene	96.94	0.079	U	0.079	0.079
540-59-0	1,2-Dichloroethene, Total	96.94	0.079	U	0.079	0.079
79-01-6	Trichloroethene	131.39	2.5		0.11	0.11
127-18-4	Tetrachloroethene	165.83	0.30		0.14	0.14

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-09 Lab Sample ID: 200-12430-2  
 Matrix: Air Lab File ID: eevz022.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 11:07  
 Sample wt/vol: 50 (mL) Date Analyzed: 08/30/2012 09:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.10	U	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	96.94	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	96.94	0.10	U	0.10	0.10
540-59-0	1,2-Dichloroethene, Total	96.94	0.10	U	0.10	0.10
79-01-6	Trichloroethene	131.39	0.10	U	0.10	0.10
127-18-4	Tetrachloroethene	165.83	0.33		0.10	0.10

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-09 Lab Sample ID: 200-12430-2  
 Matrix: Air Lab File ID: eevz022.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 11:07  
 Sample wt/vol: 50 (mL) Date Analyzed: 08/30/2012 09:34  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	0.54	U	0.54	0.54
127-18-4	Tetrachloroethene	165.83	2.2		0.68	0.68

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-16 Lab Sample ID: 200-12430-3  
 Matrix: Air Lab File ID: eevz023.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 11:08  
 Sample wt/vol: 50 (mL) Date Analyzed: 08/30/2012 10:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.10	U	0.10	0.10
156-60-5	trans-1,2-Dichloroethene	96.94	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	96.94	0.10	U	0.10	0.10
540-59-0	1,2-Dichloroethene, Total	96.94	0.10	U	0.10	0.10
79-01-6	Trichloroethene	131.39	0.10	U	0.10	0.10
127-18-4	Tetrachloroethene	165.83	0.34		0.10	0.10

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-16 Lab Sample ID: 200-12430-3  
 Matrix: Air Lab File ID: eevz023.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 11:08  
 Sample wt/vol: 50 (mL) Date Analyzed: 08/30/2012 10:28  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	0.40	U	0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	0.40	U	0.40	0.40
79-01-6	Trichloroethene	131.39	0.54	U	0.54	0.54
127-18-4	Tetrachloroethene	165.83	2.3		0.68	0.68

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-01 Lab Sample ID: 200-12430-4  
 Matrix: Air Lab File ID: eevz026.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 13:33  
 Sample wt/vol: 167(mL) Date Analyzed: 08/30/2012 13:10  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.030	U	0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	0.030	U	0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	0.030	U	0.030	0.030
79-01-6	Trichloroethene	131.39	0.066		0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.20		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-01 Lab Sample ID: 200-12430-4  
 Matrix: Air Lab File ID: eevz026.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 13:33  
 Sample wt/vol: 167(mL) Date Analyzed: 08/30/2012 13:10  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.12	U	0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	0.12	U	0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	0.12	U	0.12	0.12
79-01-6	Trichloroethene	131.39	0.35		0.16	0.16
127-18-4	Tetrachloroethene	165.83	1.4		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-02 Lab Sample ID: 200-12430-5  
 Matrix: Air Lab File ID: eevaa005.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 12:49  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 16:50  
 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.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.078		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.061		0.010	0.010

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-02 Lab Sample ID: 200-12430-5  
 Matrix: Air Lab File ID: eevaa005.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 12:49  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 16:50  
 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.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.42		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.41		0.068	0.068

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-05 Lab Sample ID: 200-12430-6  
 Matrix: Air Lab File ID: eevaa006.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 11:32  
 Sample wt/vol: 167(mL) Date Analyzed: 08/31/2012 17:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.030	U	0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	0.030	U	0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	0.030	U	0.030	0.030
79-01-6	Trichloroethene	131.39	0.17		0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.11		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-05 Lab Sample ID: 200-12430-6  
 Matrix: Air Lab File ID: eevaa006.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 11:32  
 Sample wt/vol: 167(mL) Date Analyzed: 08/31/2012 17:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.12	U	0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	0.12	U	0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	0.12	U	0.12	0.12
79-01-6	Trichloroethene	131.39	0.91		0.16	0.16
127-18-4	Tetrachloroethene	165.83	0.72		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-12 Lab Sample ID: 200-12430-7  
 Matrix: Air Lab File ID: eevaa007.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 11:33  
 Sample wt/vol: 167(mL) Date Analyzed: 08/31/2012 18:38  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.030	U	0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	0.030	U	0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	0.030	U	0.030	0.030
79-01-6	Trichloroethene	131.39	0.16		0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.084		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-12 Lab Sample ID: 200-12430-7  
 Matrix: Air Lab File ID: eevaa007.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 11:33  
 Sample wt/vol: 167(mL) Date Analyzed: 08/31/2012 18:38  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.12	U	0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	0.12	U	0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	0.12	U	0.12	0.12
79-01-6	Trichloroethene	131.39	0.87		0.16	0.16
127-18-4	Tetrachloroethene	165.83	0.57		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-10 Lab Sample ID: 200-12430-8  
 Matrix: Air Lab File ID: eevaa008.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 08:32  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 19:32  
 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.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.096		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.041		0.010	0.010

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-10 Lab Sample ID: 200-12430-8  
 Matrix: Air Lab File ID: eevaa008.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 08:32  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 19:32  
 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.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.51		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.28		0.068	0.068

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-03 Lab Sample ID: 200-12430-9  
 Matrix: Air Lab File ID: eevaa009.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 08:33  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 20:26  
 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.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.086		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.059		0.010	0.010

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-03 Lab Sample ID: 200-12430-9  
 Matrix: Air Lab File ID: eevaa009.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 08:33  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 20:26  
 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.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.46		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.40		0.068	0.068

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-17 Lab Sample ID: 200-12430-10  
 Matrix: Air Lab File ID: eevaa010.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 08:33  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 21:20  
 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.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.074		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.046		0.010	0.010

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-17 Lab Sample ID: 200-12430-10  
 Matrix: Air Lab File ID: eevaa010.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 08:33  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 21:20  
 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.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.40		0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.31		0.068	0.068

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08/FD Lab Sample ID: 200-12430-11  
 Matrix: Air Lab File ID: eevaa011.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 15:53  
 Sample wt/vol: 167(mL) Date Analyzed: 08/31/2012 22:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.24		0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	9.6	E	0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	9.9		0.030	0.030
79-01-6	Trichloroethene	131.39	12	E	0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.28		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08/FD Lab Sample ID: 200-12430-11  
 Matrix: Air Lab File ID: eevaa011.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 15:53  
 Sample wt/vol: 167(mL) Date Analyzed: 08/31/2012 22:14  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.96		0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	38	E	0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	39		0.12	0.12
79-01-6	Trichloroethene	131.39	65	E	0.16	0.16
127-18-4	Tetrachloroethene	165.83	1.9		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08/FD DL Lab Sample ID: 200-12430-11 DL  
 Matrix: Air Lab File ID: eevaa012.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 15:53  
 Sample wt/vol: 25 (mL) Date Analyzed: 08/31/2012 23:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.40	U	0.40	0.40
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.20	U	0.20	0.20
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.23	D	0.20	0.20
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	11	D	0.20	0.20
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	11	D	0.20	0.20
79-01-6	<i>Trichloroethene</i>	131.39	14	D	0.20	0.20
127-18-4	<i>Tetrachloroethene</i>	165.83	0.31	D	0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08/FD DL Lab Sample ID: 200-12430-11 DL  
 Matrix: Air Lab File ID: eevaa012.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 15:53  
 Sample wt/vol: 25 (mL) Date Analyzed: 08/31/2012 23:08  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	1.0	U	1.0	1.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.79	U	0.79	0.79
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.90	D	0.79	0.79
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	43	D	0.79	0.79
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	43	D	0.79	0.79
79-01-6	<i>Trichloroethene</i>	131.39	73	D	1.1	1.1
127-18-4	<i>Tetrachloroethene</i>	165.83	2.1	D	1.4	1.4

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-14 Lab Sample ID: 200-12430-12  
 Matrix: Air Lab File ID: eevaa013.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 16:07  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 00:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.18		0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	7.1	E	0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	7.3		0.030	0.030
79-01-6	Trichloroethene	131.39	9.0	E	0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.21		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-14 Lab Sample ID: 200-12430-12  
 Matrix: Air Lab File ID: eevaa013.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 16:07  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 00:02  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.72		0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	28	E	0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	29		0.12	0.12
79-01-6	Trichloroethene	131.39	48	E	0.16	0.16
127-18-4	Tetrachloroethene	165.83	1.4		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-14 DL Lab Sample ID: 200-12430-12 DL  
 Matrix: Air Lab File ID: eevaa014.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 16:07  
 Sample wt/vol: 25 (mL) Date Analyzed: 09/01/2012 00:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.40	U	0.40	0.40
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.20	U	0.20	0.20
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.21	D	0.20	0.20
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	7.1	D	0.20	0.20
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	7.3	D	0.20	0.20
79-01-6	<i>Trichloroethene</i>	131.39	9.0	D	0.20	0.20
127-18-4	<i>Tetrachloroethene</i>	165.83	0.22	D	0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-14 DL Lab Sample ID: 200-12430-12 DL  
 Matrix: Air Lab File ID: eevaa014.d  
 Analysis Method: TO15 LL Date Collected: 08/24/2012 16:07  
 Sample wt/vol: 25 (mL) Date Analyzed: 09/01/2012 00:56  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	1.0	U	1.0	1.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.79	U	0.79	0.79
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.85	D	0.79	0.79
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	28	D	0.79	0.79
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	29	D	0.79	0.79
79-01-6	<i>Trichloroethene</i>	131.39	48	D	1.1	1.1
127-18-4	<i>Tetrachloroethene</i>	165.83	1.5	D	1.4	1.4

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-07 Lab Sample ID: 200-12433-1  
 Matrix: Air Lab File ID: eevaa015.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:06  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 01:50  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.044		0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	0.55		0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	0.59		0.030	0.030
79-01-6	Trichloroethene	131.39	5.7	E	0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.21		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-07 Lab Sample ID: 200-12433-1  
 Matrix: Air Lab File ID: eevaa015.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:06  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 01:50  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.18		0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	2.2		0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	2.4		0.12	0.12
79-01-6	Trichloroethene	131.39	31	E	0.16	0.16
127-18-4	Tetrachloroethene	165.83	1.4		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-07 DL Lab Sample ID: 200-12433-1 DL  
 Matrix: Air Lab File ID: eevaa016.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:06  
 Sample wt/vol: 50 (mL) Date Analyzed: 09/01/2012 02:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.20	U	0.20	0.20
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.10	U	0.10	0.10
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.10	U	0.10	0.10
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	0.56	D	0.10	0.10
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	0.56	D	0.10	0.10
79-01-6	<i>Trichloroethene</i>	131.39	5.8	D	0.10	0.10
127-18-4	<i>Tetrachloroethene</i>	165.83	0.21	D	0.10	0.10

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-07 DL Lab Sample ID: 200-12433-1 DL  
 Matrix: Air Lab File ID: eevaa016.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:06  
 Sample wt/vol: 50 (mL) Date Analyzed: 09/01/2012 02:44  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.51	U	0.51	0.51
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.40	U	0.40	0.40
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.40	U	0.40	0.40
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	2.2	D	0.40	0.40
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	2.2	D	0.40	0.40
79-01-6	<i>Trichloroethene</i>	131.39	31	D	0.54	0.54
127-18-4	<i>Tetrachloroethene</i>	165.83	1.4	D	0.68	0.68

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-15 Lab Sample ID: 200-12433-2  
 Matrix: Air Lab File ID: eevaa017.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:08  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 03:38  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.038		0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	0.53		0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	0.57		0.030	0.030
79-01-6	Trichloroethene	131.39	5.4	E	0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.20		0.030	0.030

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-15 Lab Sample ID: 200-12433-2  
 Matrix: Air Lab File ID: eevaa017.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:08  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 03:38  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.15		0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	2.1		0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	2.3		0.12	0.12
79-01-6	Trichloroethene	131.39	29	E	0.16	0.16
127-18-4	Tetrachloroethene	165.83	1.3		0.20	0.20

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-15 DL Lab Sample ID: 200-12433-2 DL  
 Matrix: Air Lab File ID: eevaa018.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:08  
 Sample wt/vol: 50 (mL) Date Analyzed: 09/01/2012 04:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.20	U	0.20	0.20
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.10	U	0.10	0.10
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.10	U	0.10	0.10
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	0.53	D	0.10	0.10
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	0.53	D	0.10	0.10
79-01-6	<i>Trichloroethene</i>	131.39	5.4	D	0.10	0.10
127-18-4	<i>Tetrachloroethene</i>	165.83	0.19	D	0.10	0.10

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-15 DL Lab Sample ID: 200-12433-2 DL  
 Matrix: Air Lab File ID: eevaa018.d  
 Analysis Method: TO15 LL Date Collected: 08/22/2012 14:08  
 Sample wt/vol: 50 (mL) Date Analyzed: 09/01/2012 04:32  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.51	U	0.51	0.51
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.40	U	0.40	0.40
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.40	U	0.40	0.40
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	2.1	D	0.40	0.40
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	2.1	D	0.40	0.40
79-01-6	<i>Trichloroethene</i>	131.39	29	D	0.54	0.54
127-18-4	<i>Tetrachloroethene</i>	165.83	1.3	D	0.68	0.68

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Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08 Lab Sample ID: 200-12433-4  
 Matrix: Air Lab File ID: eevaa019.d  
 Analysis Method: TO15 LL Date Collected: 08/23/2012 15:53  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 05:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.060	U	0.060	0.060
75-35-4	1,1-Dichloroethene	96.94	0.030	U	0.030	0.030
156-60-5	trans-1,2-Dichloroethene	96.94	0.23		0.030	0.030
156-59-2	cis-1,2-Dichloroethene	96.94	9.5	E	0.030	0.030
540-59-0	1,2-Dichloroethene, Total	96.94	9.8		0.030	0.030
79-01-6	Trichloroethene	131.39	12	E	0.030	0.030
127-18-4	Tetrachloroethene	165.83	0.26		0.030	0.030

US EPA ARCHIVE DOCUMENT



FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08 Lab Sample ID: 200-12433-4  
 Matrix: Air Lab File ID: eevaa019.d  
 Analysis Method: TO15 LL Date Collected: 08/23/2012 15:53  
 Sample wt/vol: 167(mL) Date Analyzed: 09/01/2012 05:27  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2.99  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.15	U	0.15	0.15
75-35-4	1,1-Dichloroethene	96.94	0.12	U	0.12	0.12
156-60-5	trans-1,2-Dichloroethene	96.94	0.90		0.12	0.12
156-59-2	cis-1,2-Dichloroethene	96.94	38	E	0.12	0.12
540-59-0	1,2-Dichloroethene, Total	96.94	39		0.12	0.12
79-01-6	Trichloroethene	131.39	67	E	0.16	0.16
127-18-4	Tetrachloroethene	165.83	1.8		0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08 DL Lab Sample ID: 200-12433-4 DL  
 Matrix: Air Lab File ID: eevaa020.d  
 Analysis Method: TO15 LL Date Collected: 08/23/2012 15:53  
 Sample wt/vol: 25 (mL) Date Analyzed: 09/01/2012 06:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.40	U	0.40	0.40
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.20	U	0.20	0.20
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.22	D	0.20	0.20
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	7.3	D	0.20	0.20
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	7.5	D	0.20	0.20
79-01-6	<i>Trichloroethene</i>	131.39	9.4	D	0.20	0.20
127-18-4	<i>Tetrachloroethene</i>	165.83	0.21	D	0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: IA-08 DL Lab Sample ID: 200-12433-4 DL  
 Matrix: Air Lab File ID: eevaa020.d  
 Analysis Method: TO15 LL Date Collected: 08/23/2012 15:53  
 Sample wt/vol: 25 (mL) Date Analyzed: 09/01/2012 06:21  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 20  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	1.0	U	1.0	1.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.79	U	0.79	0.79
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	0.87	D	0.79	0.79
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	29	D	0.79	0.79
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	30	D	0.79	0.79
79-01-6	<i>Trichloroethene</i>	131.39	50	D	1.1	1.1
127-18-4	<i>Tetrachloroethene</i>	165.83	1.4	D	1.4	1.4

US EPA ARCHIVE DOCUMENT

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-38293/3	eev003.d
Level 2	IC 200-38293/4	eev004.d
Level 3	IC 200-38293/5	eev005.d
Level 4	IC 200-38293/6	eev006.d
Level 5	ICIS 200-38293/7	eev007.d
Level 6	IC 200-38293/8	eev008.d
Level 7	IC 200-38293/9	eev009.d
Level 8	IC 200-38293/10	eev010.d
Level 9	IC 200-38293/11	eev011.d
Level 10	IC 200-38293/12	eev012.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	LVL 9	LVL 10												
Dichlorodifluoromethane	1.9436 1.6614	1.6731 +++++	1.9990 1.6133	1.6276 +++++	1.6416 +++++	Ave		1.7371			9.3		30.0				
1,2-Dichlorotetrafluoroethane	1.9404 1.4320	1.4443 +++++	1.8031 1.4094	1.4184 +++++	1.3849 +++++	Ave		1.5475			14.6		30.0				
Chloromethane	+++++ 0.2969	+++++ 0.2825	+++++ 0.2922	0.3460 0.2834	0.3215 0.2814	Ave		0.3006			8.1		30.0				
Vinyl chloride	+++++ 0.3675	0.4081 +++++	0.4993 0.3693	0.3602 +++++	0.3633 +++++	Ave		0.3946			13.7		30.0				
1,3-Butadiene	+++++ 0.2401	0.2644 +++++	0.3253 0.2387	0.2679 +++++	0.2533 +++++	Ave		0.2650			12.1		30.0				
Bromomethane	+++++ 0.4584	0.5018 +++++	0.6976 0.4626	0.5089 +++++	0.4862 +++++	Ave		0.5193			17.3		30.0				
Bromoethene (Vinyl Bromide)	+++++ 0.5546	0.5432 +++++	0.6996 0.5582	0.5809 +++++	0.5492 +++++	Ave		0.5810			10.2		30.0				
Chloroethane	+++++ 0.1924	0.2334 +++++	0.2750 0.1969	0.2324 +++++	0.2046 +++++	Ave		0.2224			14.0		30.0				
Trichlorofluoromethane	2.9085 2.1036	2.1355 +++++	2.6548 2.0460	2.0871 +++++	2.0748 +++++	Ave		2.2872			15.2		30.0				
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.3316	+++++ +++++	1.7443 1.3816	1.3859 +++++	1.3531 +++++	Ave		1.4393			11.9		30.0				
1,1-Dichloroethene	0.7258 0.5937	0.6408 +++++	0.7922 0.6184	0.6123 +++++	0.5840 +++++	Ave		0.6525			11.9		30.0				
3-Chloropropene	+++++ 0.5338	0.7974 +++++	0.7779 0.5879	0.6198 +++++	0.5739 +++++	Ave		0.6484			17.2		30.0				
Methylene Chloride	+++++ 0.6812	+++++ 0.6482	+++++ 0.6765	0.9114 0.6088	0.8512 0.6109	Ave		0.7126			16.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

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 9	LVL 10												
trans-1,2-Dichloroethene	1.1921 0.8902	0.9862 ++++	1.1430 0.9210	0.9101 ++++	0.9229 ++++	Ave		0.9951			12.3		30.0				
Methyl tert-butyl ether	1.7019 1.4203	1.4331 ++++	1.8746 1.6693	1.3256 ++++	1.5380 ++++	Ave		1.5661			12.3		30.0				
n-Hexane	++++ 0.8198	1.0771 ++++	1.1659 0.9002	0.8668 ++++	0.8725 ++++	Ave		0.9504			14.5		30.0				
1,1-Dichloroethane	1.3420 0.9799	1.1142 ++++	1.2654 1.0532	1.0503 ++++	1.0535 ++++	Ave		1.1226			11.7		30.0				
cis-1,2-Dichloroethene	0.7596 0.5199	0.5905 ++++	0.6629 0.5854	0.5775 ++++	0.5509 ++++	Ave		0.6067			13.2		30.0				
1,2-Dichloroethane	++++ 0.1597	0.1667 ++++	0.2183 0.1796	0.1695 ++++	0.1773 ++++	Ave		0.1785			11.7		30.0				
Chloroform	1.9071 1.2756	1.4032 ++++	1.5880 1.3941	1.3084 ++++	1.3645 ++++	Ave		1.4630			15.0		30.0				
Cyclohexane	0.2486 0.1772	0.2011 ++++	0.2429 0.1869	0.1933 ++++	0.1874 ++++	Ave		0.2053			13.9		30.0				
1,1,1-Trichloroethane	0.4915 0.3511	0.3757 ++++	0.4482 0.3619	0.3645 ++++	0.3794 ++++	Ave		0.3961			13.3		30.0				
Carbon tetrachloride	0.5174 0.4208	0.4138 ++++	0.5264 0.4235	0.4277 ++++	0.4336 ++++	Ave		0.4519			10.7		30.0				
2,2,4-Trimethylpentane	0.7323 0.4796	0.5736 ++++	0.6460 0.5217	0.5199 ++++	0.5329 ++++	Ave		0.5723			15.4		30.0				
Benzene	0.5676 0.3012	0.3896 ++++	0.4308 0.3386	0.3252 ++++	0.3495 ++++	Ave		0.3861			23.5		30.0				
1,2-Dichloropropane	++++ 0.0956	0.1048 ++++	0.1276 0.1132	0.0960 ++++	0.1107 ++++	Ave		0.1080			11.2		30.0				
n-Heptane	0.2669 0.1562	0.1961 ++++	0.2382 0.1776	0.1761 ++++	0.1947 ++++	Ave		0.2008			19.2		30.0				
Trichloroethene	0.2397 0.1579	0.1880 ++++	0.1944 0.1729	0.1654 ++++	0.1807 ++++	Ave		0.1856			14.6		30.0				
Bromodichloromethane	0.3126 0.2557	0.2484 ++++	0.3040 0.2940	0.2484 ++++	0.2780 ++++	Ave		0.2773			9.7		30.0				
cis-1,3-Dichloropropene	0.1840 0.1391	0.1384 ++++	0.1714 0.1701	0.1360 ++++	0.1602 ++++	Ave		0.1570			12.3		30.0				
Toluene	0.3328 0.2239	0.2505 ++++	0.3107 0.2710	0.2303 ++++	0.2582 ++++	Ave		0.2682			15.1		30.0				
trans-1,3-Dichloropropene	0.1407 0.1275	0.1148 ++++	0.1328 0.1610	0.1258 ++++	0.1506 ++++	Ave		0.1362			11.6		30.0				
1,1,2-Trichloroethane	0.1260 0.1104	0.1092 ++++	0.1400 0.1349	0.1156 ++++	0.1282 ++++	Ave		0.1235			9.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Tetrachloroethene	0.4218 0.2556	0.3118 ++++	0.3631 0.2912	0.2875 ++++	0.2922 ++++	Ave		0.3176			17.7		30.0				
Dibromochloromethane	0.2919 0.2567	0.2243 ++++	0.3067 0.3145	0.2718 ++++	0.2718 ++++	Ave		0.2723			12.5		30.0				
1,2-Dibromoethane	0.2297 0.1904	0.1781 ++++	0.2212 0.2390	0.1808 ++++	0.2139 ++++	Ave		0.2076			11.8		30.0				
Chlorobenzene	++++ 0.3111	++++ 0.3244	0.4135 0.3672	0.3120 0.2787	0.3551 0.2989	Ave		0.3326			13.1		30.0				
Ethylbenzene	0.4753 0.4498	0.3923 ++++	0.4813 0.5769	0.4313 ++++	0.5178 ++++	Ave		0.4750			12.6		30.0				
m-Xylene & p-Xylene	0.1304 0.1696	0.1144 ++++	0.1468 0.2181	0.1445 ++++	0.1884 ++++	Ave		0.1589			22.5		30.0				
o-Xylene	0.1246 0.1579	0.1081 ++++	0.1317 0.2142	0.1363 ++++	0.1748 ++++	Ave		0.1497			24.0		30.0				
Bromoform	0.1744 0.1825	0.1449 ++++	0.1750 0.2436	0.1664 ++++	0.2020 ++++	Ave		0.1841			17.0		30.0				
1,1,2,2-Tetrachloroethane	0.1599 0.1100	0.1253 ++++	0.1651 0.1383	0.1314 ++++	0.1706 ++++	Ave		0.1429			15.9		30.0				
4-Ethyltoluene	0.2617 0.2267	0.2523 ++++	0.3084 0.3547	0.2493 ++++	0.3357 ++++	Ave		0.2841			17.2		30.0				
1,3,5-Trimethylbenzene	++++ 0.1874	0.1948 ++++	0.2563 0.2664	0.2041 ++++	0.2755 ++++	Ave		0.2308			17.1		30.0				
1,2,4-Trimethylbenzene	++++ 0.1641	++++ 0.1970	0.2480 0.2283	0.1946 0.2181	0.2542 0.2675	Ave		0.2215			15.8		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-38293/3	eev003.d
Level 2	IC 200-38293/4	eev004.d
Level 3	IC 200-38293/5	eev005.d
Level 4	IC 200-38293/6	eev006.d
Level 5	ICIS 200-38293/7	eev007.d
Level 6	IC 200-38293/8	eev008.d
Level 7	IC 200-38293/9	eev009.d
Level 8	IC 200-38293/10	eev010.d
Level 9	IC 200-38293/11	eev011.d
Level 10	IC 200-38293/12	eev012.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Dichlorodifluoromethane	BCM	Ave	3618	6998	12952	32420	64008	0.0100	0.0200	0.0400	0.100	0.200
			166204	+++++	335296	+++++	+++++	0.500	+++++	1.00	+++++	+++++
1,2-Dichlorotetrafluoroethane	BCM	Ave	3612	6041	11683	28254	53999	0.0100	0.0200	0.0400	0.100	0.200
			143251	+++++	292910	+++++	+++++	0.500	+++++	1.00	+++++	+++++
Chloromethane	BCM	Ave	+++++	+++++	+++++	6893	12535	+++++	+++++	+++++	0.100	0.200
			29704	43712	60729	98653	132526	0.500	0.750	1.00	1.50	2.00
Vinyl chloride	BCM	Ave	+++++	1707	3235	7175	14167	+++++	0.0200	0.0400	0.100	0.200
			36764	+++++	76744	+++++	+++++	0.500	+++++	1.00	+++++	+++++
1,3-Butadiene	BCM	Ave	+++++	1106	2108	5336	9875	+++++	0.0200	0.0400	0.100	0.200
			24023	+++++	49602	+++++	+++++	0.500	+++++	1.00	+++++	+++++
Bromomethane	BCM	Ave	+++++	2099	4520	10136	18958	+++++	0.0200	0.0400	0.100	0.200
			45859	+++++	96142	+++++	+++++	0.500	+++++	1.00	+++++	+++++
Bromoethene (Vinyl Bromide)	BCM	Ave	+++++	2272	4533	11571	21413	+++++	0.0200	0.0400	0.100	0.200
			55482	+++++	116018	+++++	+++++	0.500	+++++	1.00	+++++	+++++
Chloroethane	BCM	Ave	+++++	976	1782	4629	7976	+++++	0.0200	0.0400	0.100	0.200
			19250	+++++	40926	+++++	+++++	0.500	+++++	1.00	+++++	+++++
Trichlorofluoromethane	BCM	Ave	5414	8932	17201	41574	80898	0.0100	0.0200	0.0400	0.100	0.200
			210439	+++++	425214	+++++	+++++	0.500	+++++	1.00	+++++	+++++
1,1,2-Trichloro-1,2,2-trifluoroethane	BCM	Ave	+++++	+++++	11302	27606	52758	+++++	+++++	0.0400	0.100	0.200
			133209	+++++	287138	+++++	+++++	0.500	+++++	1.00	+++++	+++++
1,1-Dichloroethene	BCM	Ave	1351	2680	5133	12197	22770	0.0100	0.0200	0.0400	0.100	0.200
			59395	+++++	128518	+++++	+++++	0.500	+++++	1.00	+++++	+++++
3-Chloropropene	BCM	Ave	+++++	3335	5040	12345	22375	+++++	0.0200	0.0400	0.100	0.200
			53398	+++++	122183	+++++	+++++	0.500	+++++	1.00	+++++	+++++
Methylene Chloride	BCM	Ave	+++++	+++++	+++++	18155	33188	+++++	+++++	+++++	0.100	0.200
			68149	100280	140601	211926	287639	0.500	0.750	1.00	1.50	2.00
trans-1,2-Dichloroethene	BCM	Ave	2219	4125	7406	18128	35983	0.0100	0.0200	0.0400	0.100	0.200
			89051	+++++	191400	+++++	+++++	0.500	+++++	1.00	+++++	+++++

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Methyl tert-butyl ether	BCM	Ave	3168 142086	5994 ++++	12146 346926	26404 ++++	59967 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
n-Hexane	BCM	Ave	++++ 82013	4505 ++++	7554 187077	17266 ++++	34019 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1-Dichloroethane	BCM	Ave	2498 98025	4660 ++++	8199 218876	20921 ++++	41076 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
cis-1,2-Dichloroethene	BCM	Ave	1414 52010	2470 ++++	4295 121659	11504 ++++	21481 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2-Dichloroethane	DFB	Ave	++++ 75237	3280 ++++	6679 179646	16008 ++++	31879 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Chloroform	BCM	Ave	3550 127607	5869 ++++	10289 289725	26063 ++++	53201 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Cyclohexane	DFB	Ave	2180 83466	3957 ++++	7431 186930	18256 ++++	33685 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,1-Trichloroethane	DFB	Ave	4310 165428	7392 ++++	13709 361982	34425 ++++	68203 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Carbon tetrachloride	DFB	Ave	4537 198249	8140 ++++	16101 423548	40391 ++++	77953 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
2,2,4-Trimethylpentane	DFB	Ave	6421 225957	11285 ++++	19762 521828	49107 ++++	95805 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Benzene	DFB	Ave	4977 141918	7664 ++++	13179 338611	30711 ++++	62838 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2-Dichloropropane	DFB	Ave	++++ 45027	2061 ++++	3904 113173	9066 ++++	19902 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
n-Heptane	DFB	Ave	2340 73585	3857 ++++	7285 177670	16629 ++++	34999 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Trichloroethene	DFB	Ave	2102 74367	3698 ++++	5946 172944	15623 ++++	32481 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Bromodichloromethane	DFB	Ave	2741 120465	4886 ++++	9299 294045	23458 ++++	49983 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
cis-1,3-Dichloropropene	DFB	Ave	1613 65513	2723 ++++	5242 170124	12846 ++++	28803 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Toluene	CBZ	Ave	2458 92194	4175 ++++	7844 237864	18314 ++++	40175 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
trans-1,3-Dichloropropene	DFB	Ave	1234 60073	2258 ++++	4061 161015	11877 ++++	27068 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,2-Trichloroethane	CBZ	Ave	931 45481	1820 ++++	3536 118460	9191 ++++	19947 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Tetrachloroethene	CBZ	Ave	3116 105267	5197 ++++	9167 255619	22865 ++++	45478 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Dibromochloromethane	CBZ	Ave	2156 105711	3739 ++++	7745 276035	19103 ++++	42294 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++



FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 38293

SDG No.: \_\_\_\_\_

Instrument ID: E.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/07/2012 15:17 Calibration End Date: 05/07/2012 23:23 Calibration ID: 15112

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
1,2-Dibromoethane	CBZ	Ave	1697 78431	2968 ++++	5585 209756	14376 ++++	33286 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Chlorobenzene	CBZ	Ave	++++ 128122	++++ 216597	10442 322333	24811 393580	55257 583736	++++ 0.500	++++ 0.750	0.0400 1.00	0.100 1.50	0.200 2.00
Ethylbenzene	CBZ	Ave	3511 185245	6539 ++++	12152 506417	34297 ++++	80579 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
m-Xylene & p-Xylene	CBZ	Ave	1927 139686	3813 ++++	7411 382855	22983 ++++	58643 ++++	0.0200 1.00	0.0400 ++++	0.0800 2.00	0.200 ++++	0.400 ++++
o-Xylene	CBZ	Ave	920 65023	1802 ++++	3325 188056	10842 ++++	27200 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
Bromoform	CBZ	Ave	1288 75155	2416 ++++	4419 213860	13232 ++++	31442 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,1,2,2-Tetrachloroethane	CBZ	Ave	1181 45295	2089 ++++	4169 121418	10450 ++++	26551 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
4-Ethyltoluene	CBZ	Ave	1933 93381	4206 ++++	7787 311360	19824 ++++	52243 ++++	0.0100 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 77169	3248 ++++	6471 233840	16234 ++++	42868 ++++	++++ 0.500	0.0200 ++++	0.0400 1.00	0.100 ++++	0.200 ++++
1,2,4-Trimethylbenzene	CBZ	Ave	++++ 67563	++++ 131535	6261 200372	15474 308004	39567 522269	++++ 0.500	++++ 0.750	0.0400 1.00	0.100 1.50	0.200 2.00

Curve Type Legend:

Ave = Average ISTD

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-38293/14 Calibration Date: 05/08/2012 01:12  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eev014.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
Dichlorodifluoromethane	Ave	1.737	1.512		0.174	0.200	-13.0	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.390		0.179	0.200	-10.1	30.0
Chloromethane	Ave	0.3006	0.3313		0.220	0.200	10.2	30.0
Vinyl chloride	Ave	0.3946	0.3702		0.187	0.200	-6.2	30.0
1,3-Butadiene	Ave	0.2650	0.2582		0.194	0.200	-2.5	30.0
Bromomethane	Ave	0.5193	0.4447		0.171	0.200	-14.4	30.0
Chloroethane	Ave	0.2224	0.2115		0.190	0.200	-4.9	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.6047		0.208	0.200	4.1	30.0
Trichlorofluoromethane	Ave	2.287	2.047		0.179	0.200	-10.5	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.524		0.211	0.200	5.9	30.0
1,1-Dichloroethene	Ave	0.6525	0.7097		0.217	0.200	8.8	30.0
3-Chloropropene	Ave	0.6484	0.6000		0.185	0.200	-7.5	30.0
Methylene Chloride	Ave	0.7126	0.8038		0.225	0.200	12.8	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9575		0.192	0.200	-3.8	30.0
Methyl tert-butyl ether	Ave	1.566	1.662		0.212	0.200	6.1	30.0
n-Hexane	Ave	0.9504	0.9212		0.193	0.200	-3.1	30.0
1,1-Dichloroethane	Ave	1.123	1.035		0.184	0.200	-7.8	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.6057		0.199	0.200	-0.2	30.0
Chloroform	Ave	1.463	1.342		0.183	0.200	-8.3	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3566		0.180	0.200	-10.0	30.0
Cyclohexane	Ave	0.2053	0.2008		0.195	0.200	-2.2	30.0
Carbon tetrachloride	Ave	0.4519	0.4049		0.179	0.200	-10.4	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5537		0.193	0.200	-3.2	30.0
Benzene	Ave	0.3861	0.3602		0.186	0.200	-6.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1709		0.191	0.200	-4.3	30.0
n-Heptane	Ave	0.2008	0.1950		0.194	0.200	-2.9	30.0
Trichloroethene	Ave	0.1856	0.1760		0.189	0.200	-5.1	30.0
1,2-Dichloropropane	Ave	0.1080	0.1127		0.208	0.200	4.3	30.0
Bromodichloromethane	Ave	0.2773	0.2741		0.197	0.200	-1.1	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1574		0.200	0.200	0.3	30.0
Toluene	Ave	0.2682	0.2776		0.207	0.200	3.5	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1430		0.210	0.200	5.0	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1234		0.199	0.200	-0.0	30.0
Tetrachloroethene	Ave	0.3176	0.2750		0.173	0.200	-13.4	30.0
Dibromochloromethane	Ave	0.2723	0.2743		0.201	0.200	0.7	30.0
1,2-Dibromoethane	Ave	0.2076	0.2023		0.194	0.200	-2.6	30.0
Chlorobenzene	Ave	0.3326	0.3556		0.213	0.200	6.9	30.0
Ethylbenzene	Ave	0.4750	0.5302		0.223	0.200	11.6	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1904		0.478	0.399	19.8	30.0
o-Xylene	Ave	0.1497	0.1735		0.231	0.200	16.0	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-38293/14 Calibration Date: 05/08/2012 01:12  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eev014.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
Bromoform	Ave	0.1841	0.1877		0.203	0.200	1.9	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1545		0.216	0.200	8.0	30.0
4-Ethyltoluene	Ave	0.2841	0.3397		0.239	0.200	19.6	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2693		0.233	0.200	16.7	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.2518		0.227	0.200	13.7	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44227/2 Calibration Date: 08/29/2012 15:28  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevz002.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
Dichlorodifluoromethane	Ave	1.737	1.605		0.185	0.200	-7.6	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.421		0.184	0.200	-8.2	30.0
Chloromethane	Ave	0.3006	0.3357		0.224	0.200	11.7	30.0
Vinyl chloride	Ave	0.3946	0.3858		0.196	0.200	-2.2	30.0
1,3-Butadiene	Ave	0.2650	0.2613		0.198	0.200	-1.4	30.0
Bromomethane	Ave	0.5193	0.4579		0.177	0.200	-11.8	30.0
Chloroethane	Ave	0.2224	0.2227		0.201	0.200	0.1	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.5844		0.202	0.200	0.6	30.0
Trichlorofluoromethane	Ave	2.287	2.159		0.189	0.200	-5.6	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.434		0.200	0.200	-0.4	30.0
1,1-Dichloroethene	Ave	0.6525	0.6537		0.201	0.200	0.2	30.0
3-Chloropropene	Ave	0.6484	0.6859		0.212	0.200	5.8	30.0
Methylene Chloride	Ave	0.7126	0.8325		0.234	0.200	16.8	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9748		0.196	0.200	-2.0	30.0
Methyl tert-butyl ether	Ave	1.566	1.499		0.192	0.200	-4.3	30.0
n-Hexane	Ave	0.9504	0.9667		0.204	0.200	1.7	30.0
1,1-Dichloroethane	Ave	1.123	1.128		0.201	0.200	0.5	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.6037		0.199	0.200	-0.5	30.0
Chloroform	Ave	1.463	1.412		0.193	0.200	-3.5	30.0
Cyclohexane	Ave	0.2053	0.1860		0.182	0.200	-9.4	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3628		0.184	0.200	-8.4	30.0
Carbon tetrachloride	Ave	0.4519	0.3908		0.173	0.200	-13.5	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5721		0.200	0.200	-0.0	30.0
Benzene	Ave	0.3861	0.3717		0.193	0.200	-3.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1773		0.199	0.200	-0.7	30.0
n-Heptane	Ave	0.2008	0.2022		0.202	0.200	0.7	30.0
Trichloroethene	Ave	0.1856	0.1815		0.196	0.200	-2.2	30.0
1,2-Dichloropropane	Ave	0.1080	0.1156		0.215	0.200	7.1	30.0
Bromodichloromethane	Ave	0.2773	0.2593		0.187	0.200	-6.5	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1547		0.197	0.200	-1.5	30.0
Toluene	Ave	0.2682	0.2582		0.193	0.200	-3.7	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1455		0.214	0.200	6.8	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1232		0.200	0.200	-0.3	30.0
Tetrachloroethene	Ave	0.3176	0.2776		0.175	0.200	-12.6	30.0
Dibromochloromethane	Ave	0.2723	0.2505		0.184	0.200	-8.0	30.0
1,2-Dibromoethane	Ave	0.2076	0.2150		0.208	0.200	3.5	30.0
Chlorobenzene	Ave	0.3326	0.3479		0.210	0.200	4.6	30.0
Ethylbenzene	Ave	0.4750	0.4893		0.207	0.200	3.0	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1687		0.426	0.401	6.2	30.0
o-Xylene	Ave	0.1497	0.1607		0.215	0.200	7.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44227/2 Calibration Date: 08/29/2012 15:28  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevz002.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
Bromoform	Ave	0.1841	0.1761		0.192	0.200	-4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1848		0.259	0.200	29.3	30.0
4-Ethyltoluene	Ave	0.2841	0.3237		0.228	0.200	13.9	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2519		0.219	0.200	9.2	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.2050		0.186	0.200	-7.4	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44387/2 Calibration Date: 08/31/2012 14:07  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevaa002.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
Dichlorodifluoromethane	Ave	1.737	1.602		0.185	0.200	-7.8	30.0
1,2-Dichlorotetrafluoroethane	Ave	1.548	1.331		0.172	0.200	-14.0	30.0
Chloromethane	Ave	0.3006	0.3227		0.215	0.200	7.3	30.0
Vinyl chloride	Ave	0.3946	0.3565		0.181	0.200	-9.7	30.0
1,3-Butadiene	Ave	0.2650	0.2158		0.163	0.200	-18.5	30.0
Bromomethane	Ave	0.5193	0.4347		0.168	0.200	-16.3	30.0
Chloroethane	Ave	0.2224	0.2020		0.182	0.200	-9.2	30.0
Bromoethene (Vinyl Bromide)	Ave	0.5810	0.5634		0.194	0.200	-3.0	30.0
Trichlorofluoromethane	Ave	2.287	2.148		0.188	0.200	-6.1	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.439	1.404		0.196	0.200	-2.4	30.0
1,1-Dichloroethene	Ave	0.6525	0.6393		0.196	0.200	-2.0	30.0
3-Chloropropene	Ave	0.6484	0.6359		0.197	0.200	-1.9	30.0
Methylene Chloride	Ave	0.7126	0.8691		0.244	0.200	22.0	30.0
trans-1,2-Dichloroethene	Ave	0.995	0.9552		0.192	0.200	-4.0	30.0
Methyl tert-butyl ether	Ave	1.566	1.542		0.197	0.200	-1.5	30.0
n-Hexane	Ave	0.9504	0.9613		0.203	0.200	1.1	30.0
1,1-Dichloroethane	Ave	1.123	1.107		0.198	0.200	-1.4	30.0
cis-1,2-Dichloroethene	Ave	0.6067	0.5907		0.195	0.200	-2.6	30.0
Chloroform	Ave	1.463	1.345		0.184	0.200	-8.1	30.0
1,1,1-Trichloroethane	Ave	0.3961	0.3641		0.184	0.200	-8.1	30.0
Cyclohexane	Ave	0.2053	0.1910		0.186	0.200	-7.0	30.0
Carbon tetrachloride	Ave	0.4519	0.3963		0.176	0.200	-12.3	30.0
2,2,4-Trimethylpentane	Ave	0.5723	0.5716		0.200	0.200	-0.1	30.0
Benzene	Ave	0.3861	0.3562		0.185	0.200	-7.7	30.0
1,2-Dichloroethane	Ave	0.1785	0.1747		0.196	0.200	-2.1	30.0
n-Heptane	Ave	0.2008	0.2020		0.202	0.200	0.6	30.0
Trichloroethene	Ave	0.1856	0.1765		0.191	0.200	-4.9	30.0
1,2-Dichloropropane	Ave	0.1080	0.1133		0.210	0.200	4.9	30.0
Bromodichloromethane	Ave	0.2773	0.2674		0.193	0.200	-3.6	30.0
cis-1,3-Dichloropropene	Ave	0.1570	0.1494		0.191	0.200	-4.9	30.0
Toluene	Ave	0.2682	0.2529		0.189	0.200	-5.7	30.0
trans-1,3-Dichloropropene	Ave	0.1362	0.1419		0.209	0.200	4.2	30.0
1,1,2-Trichloroethane	Ave	0.1235	0.1231		0.200	0.200	-0.3	30.0
Tetrachloroethene	Ave	0.3176	0.2696		0.170	0.200	-15.1	30.0
Dibromochloromethane	Ave	0.2723	0.2503		0.184	0.200	-8.1	30.0
1,2-Dibromoethane	Ave	0.2076	0.2058		0.199	0.200	-0.8	30.0
Chlorobenzene	Ave	0.3326	0.3313		0.200	0.200	-0.4	30.0
Ethylbenzene	Ave	0.4750	0.4770		0.201	0.200	0.4	30.0
m-Xylene & p-Xylene	Ave	0.1589	0.1618		0.408	0.401	1.8	30.0
o-Xylene	Ave	0.1497	0.1473		0.197	0.200	-1.6	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44387/2 Calibration Date: 08/31/2012 14:07  
 Instrument ID: E.i Calib Start Date: 05/07/2012 15:17  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 05/07/2012 23:23  
 Lab File ID: eevaa002.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
Bromoform	Ave	0.1841	0.1634		0.178	0.200	-11.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.1429	0.1633		0.229	0.200	14.2	30.0
4-Ethyltoluene	Ave	0.2841	0.2760		0.195	0.200	-2.9	30.0
1,3,5-Trimethylbenzene	Ave	0.2308	0.2162		0.188	0.200	-6.3	30.0
1,2,4-Trimethylbenzene	Ave	0.2215	0.1870		0.169	0.200	-15.6	30.0

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44227/4  
 Matrix: Air Lab File ID: eevz004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/29/2012 17:16  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.010	U	0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.010	U	0.010	0.010

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44227/4  
 Matrix: Air Lab File ID: eevz004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500 (mL) Date Analyzed: 08/29/2012 17:16  
 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.: 44227 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.054	U	0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.068	U	0.068	0.068

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44387/4  
 Matrix: Air Lab File ID: eevaa004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 15:56  
 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.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.020	U	0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.010	U	0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.010	U	0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.010	U	0.010	0.010
79-01-6	Trichloroethene	131.39	0.010	U	0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.010	U	0.010	0.010

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44387/4  
 Matrix: Air Lab File ID: eevaa004.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500(mL) Date Analyzed: 08/31/2012 15:56  
 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.: 44387 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.051	U	0.051	0.051
75-35-4	1,1-Dichloroethene	96.94	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
156-59-2	cis-1,2-Dichloroethene	96.94	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	96.94	0.040	U	0.040	0.040
79-01-6	Trichloroethene	131.39	0.054	U	0.054	0.054
127-18-4	Tetrachloroethene	165.83	0.068	U	0.068	0.068

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44227/3  
 Matrix: Air Lab File ID: eevz003.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500 (mL) Date Analyzed: 08/29/2012 16:22  
 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.: 44227 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.187		0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.210		0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.185		0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.183		0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.368		0.010	0.010
79-01-6	Trichloroethene	131.39	0.168		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.146		0.010	0.010

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44387/3  
 Matrix: Air Lab File ID: eevaa003.d  
 Analysis Method: TO15 LL Date Collected: \_\_\_\_\_  
 Sample wt/vol: 500 (mL) Date Analyzed: 08/31/2012 15:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44387 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.186		0.020	0.020
75-35-4	1,1-Dichloroethene	96.94	0.209		0.010	0.010
156-60-5	trans-1,2-Dichloroethene	96.94	0.192		0.010	0.010
156-59-2	cis-1,2-Dichloroethene	96.94	0.195		0.010	0.010
540-59-0	1,2-Dichloroethene, Total	96.94	0.387		0.010	0.010
79-01-6	Trichloroethene	131.39	0.182		0.010	0.010
127-18-4	Tetrachloroethene	165.83	0.155		0.010	0.010

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AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 05/07/2012 13:39

Analysis Batch Number: 38293 End Date: 05/08/2012 12:59

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-38293/1		05/07/2012 13:39	1	eev001.d	RTX-624 0.32 (mm)
VIBLK 200-38293/2		05/07/2012 14:23	1		RTX-624 0.32 (mm)
IC 200-38293/3		05/07/2012 15:17	1	eev003.d	RTX-624 0.32 (mm)
IC 200-38293/4		05/07/2012 16:11	1	eev004.d	RTX-624 0.32 (mm)
IC 200-38293/5		05/07/2012 17:05	1	eev005.d	RTX-624 0.32 (mm)
IC 200-38293/6		05/07/2012 17:58	1	eev006.d	RTX-624 0.32 (mm)
ICIS 200-38293/7		05/07/2012 18:52	1	eev007.d	RTX-624 0.32 (mm)
IC 200-38293/8		05/07/2012 19:46	1	eev008.d	RTX-624 0.32 (mm)
IC 200-38293/9		05/07/2012 20:40	1	eev009.d	RTX-624 0.32 (mm)
IC 200-38293/10		05/07/2012 21:34	1	eev010.d	RTX-624 0.32 (mm)
IC 200-38293/11		05/07/2012 22:29	1	eev011.d	RTX-624 0.32 (mm)
IC 200-38293/12		05/07/2012 23:23	1	eev012.d	RTX-624 0.32 (mm)
VIBLK 200-38293/13		05/08/2012 00:18	1		RTX-624 0.32 (mm)
ICV 200-38293/14		05/08/2012 01:12	1	eev014.d	RTX-624 0.32 (mm)
VIBLK 200-38293/15		05/08/2012 02:07	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 03:01	1		RTX-624 0.32 (mm)
VIBLK 200-38293/17		05/08/2012 03:56	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 04:50	1		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 05:44	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 06:39	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 07:33	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 08:27	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 09:21	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 10:16	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 11:11	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 12:05	4		RTX-624 0.32 (mm)
ZZZZZ		05/08/2012 12:59	4		RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 08/29/2012 13:17

Analysis Batch Number: 44227 End Date: 08/30/2012 13:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44227/1		08/29/2012 13:17	1	eevz001.d	RTX-624 0.32 (mm)
CCVIS 200-44227/2		08/29/2012 15:28	1	eevz002.d	RTX-624 0.32 (mm)
LCS 200-44227/3		08/29/2012 16:22	1	eevz003.d	RTX-624 0.32 (mm)
MB 200-44227/4		08/29/2012 17:16	1	eevz004.d	RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 18:11	6.33		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 19:05	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 19:59	2		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 20:53	5.15		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 21:47	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 22:41	1		RTX-624 0.32 (mm)
ZZZZZ		08/29/2012 23:35	10		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 00:29	5.15		RTX-624 0.32 (mm)
VIBLK 200-44227/13		08/30/2012 01:24	1		RTX-624 0.32 (mm)
VIBLK 200-44227/14		08/30/2012 02:18	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 03:12	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 04:07	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 05:02	1		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 05:56	10		RTX-624 0.32 (mm)
VIBLK 200-44227/19		08/30/2012 06:51	1		RTX-624 0.32 (mm)
VIBLK 200-44227/20		08/30/2012 07:45	1		RTX-624 0.32 (mm)
200-12430-1	IA-03	08/30/2012 08:40	2	eevz021.d	RTX-624 0.32 (mm)
200-12430-2	IA-09	08/30/2012 09:34	10	eevz022.d	RTX-624 0.32 (mm)
200-12430-3	IA-16	08/30/2012 10:28	10	eevz023.d	RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 11:22	4		RTX-624 0.32 (mm)
ZZZZZ		08/30/2012 12:16	2		RTX-624 0.32 (mm)
200-12430-4	IA-01	08/30/2012 13:10	2.99	eevz026.d	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: E.i Start Date: 08/31/2012 13:17

Analysis Batch Number: 44387 End Date: 09/01/2012 07:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44387/1		08/31/2012 13:17	1	eevaa001.d	RTX-624 0.32 (mm)
CCVIS 200-44387/2		08/31/2012 14:07	1	eevaa002.d	RTX-624 0.32 (mm)
LCS 200-44387/3		08/31/2012 15:01	1	eevaa003.d	RTX-624 0.32 (mm)
MB 200-44387/4		08/31/2012 15:56	1	eevaa004.d	RTX-624 0.32 (mm)
200-12430-5	IA-02	08/31/2012 16:50	1	eevaa005.d	RTX-624 0.32 (mm)
200-12430-6	IA-05	08/31/2012 17:44	2.99	eevaa006.d	RTX-624 0.32 (mm)
200-12430-7	IA-12	08/31/2012 18:38	2.99	eevaa007.d	RTX-624 0.32 (mm)
200-12430-8	IA-10	08/31/2012 19:32	1	eevaa008.d	RTX-624 0.32 (mm)
200-12430-9	SUA-03	08/31/2012 20:26	1	eevaa009.d	RTX-624 0.32 (mm)
200-12430-10	IA-17	08/31/2012 21:20	1	eevaa010.d	RTX-624 0.32 (mm)
200-12430-11	IA-08/FD	08/31/2012 22:14	2.99	eevaa011.d	RTX-624 0.32 (mm)
200-12430-11 DL	IA-08/FD DL	08/31/2012 23:08	20	eevaa012.d	RTX-624 0.32 (mm)
200-12430-12	IA-14	09/01/2012 00:02	2.99	eevaa013.d	RTX-624 0.32 (mm)
200-12430-12 DL	IA-14 DL	09/01/2012 00:56	20	eevaa014.d	RTX-624 0.32 (mm)
200-12433-1	IA-07	09/01/2012 01:50	2.99	eevaa015.d	RTX-624 0.32 (mm)
200-12433-1 DL	IA-07 DL	09/01/2012 02:44	10	eevaa016.d	RTX-624 0.32 (mm)
200-12433-2	IA-15	09/01/2012 03:38	2.99	eevaa017.d	RTX-624 0.32 (mm)
200-12433-2 DL	IA-15 DL	09/01/2012 04:32	10	eevaa018.d	RTX-624 0.32 (mm)
200-12433-4	IA-08	09/01/2012 05:27	2.99	eevaa019.d	RTX-624 0.32 (mm)
200-12433-4 DL	IA-08 DL	09/01/2012 06:21	20	eevaa020.d	RTX-624 0.32 (mm)
VIBLK 200-44387/21		09/01/2012 07:16	1		RTX-624 0.32 (mm)



# Method T015

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Volatile Organic Compounds (GC/MS)  
by Method T015

FORM III  
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Air Level: Low Lab File ID: ckzm003.d  
 Lab ID: LCS 200-44377/3 Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	10.0	9.02	90	70-130	
1,1-Dichloroethene	10.0	10.2	102	70-130	
trans-1,2-Dichloroethene	10.0	9.20	92	70-130	
cis-1,2-Dichloroethene	10.0	9.31	93	70-130	
Trichloroethene	10.0	9.16	92	70-130	
Tetrachloroethene	10.0	9.42	94	70-130	

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# 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.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckzm004.d Lab Sample ID: MB 200-44377/4  
 Matrix: Air Heated Purge: (Y/N) N  
 Instrument ID: C.i Date Analyzed: 08/31/2012 12:01  
 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 200-44377/3	ckzm003.d	08/31/2012 11:08
SUA-02	200-12430-13	ckzm011.d	08/31/2012 18:37
SUA-02 DL	200-12430-13 DL	ckzm012.d	08/31/2012 19:31
SUA-02/FD	200-12430-14	ckzm013.d	08/31/2012 20:25
SUA-02/FD DL	200-12430-14 DL	ckzm014.d	08/31/2012 21:18
SUA-01	200-12433-3	ckzm015.d	08/31/2012 22:11
SUA-01 DL	200-12433-3 DL	ckzm016.d	08/31/2012 23:05

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckz001.d BFB Injection Date: 08/14/2012  
 Instrument ID: C.i BFB Injection Time: 16:28  
 Analysis Batch No.: 43490

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	14.1	
75	30.0 - 66.0% of mass 95	44.2	
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	0.3	(0.3) 1
174	50.0 - 120.0% of mass 95	80.2	
175	4.0 - 9.0 % of mass 174	5.6	(6.9) 1
176	93.0 - 101.0% of mass 174	77.7	(96.9) 1
177	5.0 - 9.0% of mass 176	5.1	(6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 200-43490/3	ckz003.d	08/14/2012	18:13
	IC 200-43490/4	ckz004.d	08/14/2012	19:07
	IC 200-43490/5	ckz005.d	08/14/2012	20:00
	IC 200-43490/6	ckz006.d	08/14/2012	20:53
	IC 200-43490/8	ckz008.d	08/14/2012	22:41
	IC 200-43490/9	ckz009.d	08/14/2012	23:34
	IC 200-43490/10	ckz010.d	08/15/2012	00:28
	ICIS 200-43490/15	ckz015.d	08/15/2012	08:24
	ICV 200-43490/18	ckz018.d	08/15/2012	11:09

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FORM V  
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: ckzm001.d BFB Injection Date: 08/31/2012  
 Instrument ID: C.i BFB Injection Time: 09:22  
 Analysis Batch No.: 44377

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.4	
75	30.0 - 66.0% of mass 95	49.4	
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	0.2	(0.2) 1
174	50.0 - 120.0% of mass 95	83.5	
175	4.0 - 9.0 % of mass 174	5.8	(6.9) 1
176	93.0 - 101.0% of mass 174	80.7	(96.7) 1
177	5.0 - 9.0% of mass 176	5.2	(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
	CCVIS 200-44377/2	ckzm002.d	08/31/2012	10:14
	LCS 200-44377/3	ckzm003.d	08/31/2012	11:08
	MB 200-44377/4	ckzm004.d	08/31/2012	12:01
SUA-02	200-12430-13	ckzm011.d	08/31/2012	18:37
SUA-02 DL	200-12430-13 DL	ckzm012.d	08/31/2012	19:31
SUA-02/FD	200-12430-14	ckzm013.d	08/31/2012	20:25
SUA-02/FD DL	200-12430-14 DL	ckzm014.d	08/31/2012	21:18
SUA-01	200-12433-3	ckzm015.d	08/31/2012	22:11
SUA-01 DL	200-12433-3 DL	ckzm016.d	08/31/2012	23:05

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FORM VIII  
AIR - GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 200-43490/15 Date Analyzed: 08/15/2012 08:24  
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ckz015.d Heated Purge: (Y/N) N  
 Calibration ID: 17120

	BCM		DFB		CBZ	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT	419299	12.10	2338098	13.92	2179074	19.45
UPPER LIMIT	587019	12.43	3273337	14.25	3050704	19.78
LOWER LIMIT	251579	11.77	1402859	13.59	1307444	19.12
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 200-43490/18	394482	12.10	2173520	13.93	1992042	19.45

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-44377/2 Date Analyzed: 08/31/2012 10:14  
 Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm)  
 Lab File ID (Standard): ckzm002.d Heated Purge: (Y/N) N  
 Calibration ID: 17120

	BCM		DFB		CBZ			
	AREA #	RT #	AREA #	RT #	AREA #	RT #		
12/24 HOUR STD	299480	12.08	1666517	13.90	1575317	19.43		
UPPER LIMIT	419272	12.41	2333124	14.23	2205444	19.76		
LOWER LIMIT	179688	11.75	999910	13.57	945190	19.10		
LAB SAMPLE ID	CLIENT SAMPLE ID							
LCS 200-44377/3			354530	12.08	1955263	13.90	1814175	19.43
MB 200-44377/4			341660	12.07	1997385	13.90	1693832	19.43
200-12430-13	SUA-02		291784	12.08	1628565	13.91	1545323	19.43
200-12430-13 DL	SUA-02 DL		328650	12.07	1822626	13.90	1672820	19.43
200-12430-14	SUA-02/FD		305805	12.08	1711353	13.90	1620659	19.43
200-12430-14 DL	SUA-02/FD DL		335169	12.08	1865630	13.90	1762281	19.43
200-12433-3	SUA-01		307174	12.08	1699356	13.90	1568304	19.43
200-12433-3 DL	SUA-01 DL		298302	12.07	1689765	13.90	1558758	19.42

BCM = Bromochloromethane  
 DFB = 1,4-Difluorobenzene  
 CBZ = 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

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02 Lab Sample ID: 200-12430-13  
 Matrix: Air Lab File ID: ckzm011.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 200(mL) Date Analyzed: 08/31/2012 18:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32(mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	1.1		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	43	E	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	44		0.20	0.20
79-01-6	Trichloroethene	131.39	56	E	0.20	0.20
127-18-4	Tetrachloroethene	165.83	1.2		0.20	0.20

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02 Lab Sample ID: 200-12430-13  
 Matrix: Air Lab File ID: ckzm011.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 200(mL) Date Analyzed: 08/31/2012 18:37  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	4.4		0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	170	E	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	170		0.79	0.79
79-01-6	Trichloroethene	131.39	300	E	1.1	1.1
127-18-4	Tetrachloroethene	165.83	8.2		1.4	1.4

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02 DL Lab Sample ID: 200-12430-13 DL  
 Matrix: Air Lab File ID: ckzm012.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 100(mL) Date Analyzed: 08/31/2012 19:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.40	U	0.40	0.40
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.40	U	0.40	0.40
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	1.1	D	0.40	0.40
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	43	D	0.40	0.40
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	44	D	0.40	0.40
79-01-6	<i>Trichloroethene</i>	131.39	54	D	0.40	0.40
127-18-4	<i>Tetrachloroethene</i>	165.83	1.3	D	0.40	0.40

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02 DL Lab Sample ID: 200-12430-13 DL  
 Matrix: Air Lab File ID: ckzm012.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 100(mL) Date Analyzed: 08/31/2012 19:31  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	1.0	U	1.0	1.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	1.6	U	1.6	1.6
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	4.2	D	1.6	1.6
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	170	D	1.6	1.6
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	170	D	1.6	1.6
79-01-6	<i>Trichloroethene</i>	131.39	290	D	2.1	2.1
127-18-4	<i>Tetrachloroethene</i>	165.83	8.5	D	2.7	2.7

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02/FD Lab Sample ID: 200-12430-14  
 Matrix: Air Lab File ID: ckzm013.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 200 (mL) Date Analyzed: 08/31/2012 20:25  
 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.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	1.1		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	43	E	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	44		0.20	0.20
79-01-6	Trichloroethene	131.39	55	E	0.20	0.20
127-18-4	Tetrachloroethene	165.83	1.2		0.20	0.20

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02/FD Lab Sample ID: 200-12430-14  
 Matrix: Air Lab File ID: ckzm013.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 200(mL) Date Analyzed: 08/31/2012 20:25  
 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.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	4.3		0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	170	E	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	180		0.79	0.79
79-01-6	Trichloroethene	131.39	290	E	1.1	1.1
127-18-4	Tetrachloroethene	165.83	8.2		1.4	1.4

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02/FD DL Lab Sample ID: 200-12430-14 DL  
 Matrix: Air Lab File ID: ckzm014.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 100(mL) Date Analyzed: 08/31/2012 21:18  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	0.40	U	0.40	0.40
75-35-4	<i>1,1-Dichloroethene</i>	96.94	0.40	U	0.40	0.40
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	1.0	D	0.40	0.40
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	41	D	0.40	0.40
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	42	D	0.40	0.40
79-01-6	<i>Trichloroethene</i>	131.39	51	D	0.40	0.40
127-18-4	<i>Tetrachloroethene</i>	165.83	1.2	D	0.40	0.40

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-02/FD DL Lab Sample ID: 200-12430-14 DL  
 Matrix: Air Lab File ID: ckzm014.d  
 Analysis Method: TO-15 Date Collected: 08/24/2012 15:52  
 Sample wt/vol: 100(mL) Date Analyzed: 08/31/2012 21:18  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	1.0	U	1.0	1.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	1.6	U	1.6	1.6
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	4.0	D	1.6	1.6
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	160	D	1.6	1.6
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	160	D	1.6	1.6
79-01-6	<i>Trichloroethene</i>	131.39	270	D	2.1	2.1
127-18-4	<i>Tetrachloroethene</i>	165.83	7.9	D	2.7	2.7

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-01 Lab Sample ID: 200-12433-3  
 Matrix: Air Lab File ID: ckzm015.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:10  
 Sample wt/vol: 100(mL) Date Analyzed: 08/31/2012 22:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.40	U	0.40	0.40
75-35-4	1,1-Dichloroethene	96.94	0.40	U	0.40	0.40
156-60-5	trans-1,2-Dichloroethene	96.94	2.0		0.40	0.40
156-59-2	cis-1,2-Dichloroethene	96.94	29		0.40	0.40
540-59-0	1,2-Dichloroethene, Total	96.94	31		0.40	0.40
79-01-6	Trichloroethene	131.39	300	E	0.40	0.40
127-18-4	Tetrachloroethene	165.83	8.6		0.40	0.40

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-01 Lab Sample ID: 200-12433-3  
 Matrix: Air Lab File ID: ckzm015.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:10  
 Sample wt/vol: 100(mL) Date Analyzed: 08/31/2012 22:11  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 2  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	1.0	U	1.0	1.0
75-35-4	1,1-Dichloroethene	96.94	1.6	U	1.6	1.6
156-60-5	trans-1,2-Dichloroethene	96.94	7.9		1.6	1.6
156-59-2	cis-1,2-Dichloroethene	96.94	110		1.6	1.6
540-59-0	1,2-Dichloroethene, Total	96.94	120		1.6	1.6
79-01-6	Trichloroethene	131.39	1600	E	2.1	2.1
127-18-4	Tetrachloroethene	165.83	59		2.7	2.7

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-01 DL Lab Sample ID: 200-12433-3 DL  
 Matrix: Air Lab File ID: ckzm016.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:10  
 Sample wt/vol: 20 (mL) Date Analyzed: 08/31/2012 23:05  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	2.0	U	2.0	2.0
75-35-4	<i>1,1-Dichloroethene</i>	96.94	2.0	U	2.0	2.0
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	2.6	D	2.0	2.0
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	37	D	2.0	2.0
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	40	D	2.0	2.0
79-01-6	<i>Trichloroethene</i>	131.39	360	D	2.0	2.0
127-18-4	<i>Tetrachloroethene</i>	165.83	11	D	2.0	2.0

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FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SUA-01 DL Lab Sample ID: 200-12433-3 DL  
 Matrix: Air Lab File ID: ckzm016.d  
 Analysis Method: TO-15 Date Collected: 08/22/2012 14:10  
 Sample wt/vol: 20 (mL) Date Analyzed: 08/31/2012 23:05  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 10  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	<i>Vinyl chloride</i>	62.50	5.1	U	5.1	5.1
75-35-4	<i>1,1-Dichloroethene</i>	96.94	7.9	U	7.9	7.9
156-60-5	<i>trans-1,2-Dichloroethene</i>	96.94	10	D	7.9	7.9
156-59-2	<i>cis-1,2-Dichloroethene</i>	96.94	150	D	7.9	7.9
540-59-0	<i>1,2-Dichloroethene, Total</i>	96.94	160	D	7.9	7.9
79-01-6	<i>Trichloroethene</i>	131.39	1900	D	11	11
127-18-4	<i>Tetrachloroethene</i>	165.83	73	D	14	14

US EPA ARCHIVE DOCUMENT

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	EPA SAMPLE NO:	LAB FILE ID:
Level 1	IC 200-43490/3	ic 376683	ckz003.d
Level 2	IC 200-43490/4	ic 376683	ckz004.d
Level 3	IC 200-43490/5	ic 376702	ckz005.d
Level 4	IC 200-43490/6	ic 370619	ckz006.d
Level 5	ICIS 200-43490/15	icis 370604	ckz015.d
Level 6	IC 200-43490/8	ic 370603	ckz008.d
Level 7	IC 200-43490/9	ic 370601	ckz009.d
Level 8	IC 200-43490/10	ic 370600	ckz010.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	++++ 0.6295	++++ 0.5874	0.7402 0.5409	0.7173	0.6751	Ave	0.6484				11.8		30.0				
Dichlorodifluoromethane	++++ 2.6990	++++ 2.5969	3.0739 2.4542	2.9563	2.6940	Ave	2.7457				8.4		30.0				
Freon 22	++++ 1.3440	++++ 1.2570	1.6383 1.1785	1.5074	1.3768	Ave	1.3837				12.1		30.0				
1,2-Dichlorotetrafluoroethane	++++ 2.7953	3.0326 2.6891	2.8534 2.5507	2.9152	2.7473	Ave	2.7977				5.6		30.0				
Chloromethane	++++ 0.7464	++++ 0.7035	0.8814 0.6607	0.8254	0.7767	Ave	0.7657				10.5		30.0				
n-Butane	++++ 1.3441	++++ 1.2436	1.4925 1.1536	1.4833	1.4088	Ave	1.3543				10.0		30.0				
1,3-Butadiene	++++ 0.6853	0.7256 0.6504	0.7225 0.6123	0.7244	0.6932	Ave	0.6877				6.3		30.0				
Acrolein	++++ 0.2971	++++ 0.2805	++++ 0.2615	0.2879	0.2873	Ave	0.2829				4.7		30.0				
Vinyl chloride	1.0102 0.9389	1.0270 0.8943	0.9551 0.8450	0.9878	0.9461	Ave	0.9506				6.3		30.0				
Bromomethane	++++ 0.9116	0.9619 0.9068	0.9221 0.8611	0.9265	0.9057	Ave	0.9137				3.3		30.0				
Chloroethane	++++ 0.4839	++++ 0.4636	0.4834 0.4416	0.5044	0.4835	Ave	0.4767				4.5		30.0				
Isopentane	++++ 0.9958	1.1459 0.9497	1.1259 0.8853	1.1009	1.0165	Ave	1.0314				9.4		30.0				
Bromoethene (Vinyl Bromide)	++++ 0.9780	1.0397 0.9713	0.9656 0.9395	0.9718	0.9601	Ave	0.9751				3.2		30.0				
Trichlorofluoromethane	++++ 2.8528	3.1272 2.7322	3.1002 2.6033	3.0854	2.7689	Ave	2.8957				7.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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-Pentane	++++ 1.5774	++++ 1.4922	1.6768 1.3928	1.6987	1.6075	Ave		1.5742			7.3		30.0				
Ethanol	++++ 0.2349	++++ 0.2316	0.2485 0.2026	0.2536	0.2352	Ave		0.2344			7.6		30.0				
Ethyl ether	++++ 0.6185	0.6091 0.5900	0.6031 0.5425	0.6261	0.6064	Ave		0.5994			4.6		30.0				
Freon TF	++++ 1.9955	2.1282 1.9539	2.1940 1.8839	2.0570	1.9605	Ave		2.0247			5.3		30.0				
tert-Butyl alcohol	++++ 1.1778	++++ 1.1068	++++ 1.0645	1.3202	1.2143	Ave		1.1767			8.4		30.0				
1,1-Dichloroethene	++++ 0.9453	1.0305 0.9249	0.9672 0.9063	0.9532	0.9286	Ave		0.9508			4.2		30.0				
Acetone	++++ 1.1122	++++ 1.0173	++++ 0.9194	1.2438	1.2129	Ave		1.1011			12.3		30.0				
Carbon disulfide	++++ 2.6871	++++ 2.6462	++++ 2.5684	2.7553	2.6692	Ave		2.6692			2.3		30.0				
Isopropyl alcohol	++++ 0.7860	++++ 0.7474	++++ 0.6592	0.8805	0.7949	Ave		0.7736			10.4		30.0				
3-Chloropropene	++++ 1.1328	1.2061 1.0721	1.1458 1.0169	1.1852	1.1160	Ave		1.1250			5.8		30.0				
Acetonitrile	++++ 0.4931	++++ 0.4128	++++ 0.4198	0.4870	0.4530	Ave		0.4531			8.2		30.0				
Methylene Chloride	++++ 0.9029	++++ 0.8597	1.1583 0.8039	0.9990	0.9121	Ave		0.9393			13.3		30.0				
Methyl tert-butyl ether	++++ 2.7062	2.7875 2.5808	2.7311 2.4088	2.7209	2.5927	Ave		2.6468			4.9		30.0				
trans-1,2-Dichloroethene	++++ 1.4050	1.4665 1.3364	1.4347 1.2690	1.5032	1.3799	Ave		1.3992			5.7		30.0				
Acrylonitrile	++++ 0.5646	++++ 0.5362	0.5065 0.5142	0.5690	0.5509	Ave		0.5402			4.8		30.0				
Ethyl acetate	++++ 0.0857	++++ 0.0841	++++ 0.0804	0.0829	0.0808	Ave		0.0828			2.7		30.0				
n-Hexane	++++ 1.5099	1.6008 1.4542	1.5311 1.3839	1.5967	1.5169	Ave		1.5134			5.1		30.0				
1,1-Dichloroethane	++++ 1.7734	1.9531 1.7040	1.8624 1.6262	1.9013	1.7708	Ave		1.7987			6.4		30.0				
Vinyl acetate	++++ 1.9832	++++ 1.8707	++++ 1.7205	1.9754	1.9144	Ave		1.8928			5.6		30.0				
cis-1,2-Dichloroethene	++++ 1.0870	++++ 1.0750	1.1730 1.0427	1.1081	1.0766	Ave		1.1192			7.0		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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														
Methyl Ethyl Ketone	++++ 0.4322	++++ 0.4192	0.4298 0.3859	0.4274	0.4157	Ave		0.4184			4.1		30.0				
Tetrahydrofuran	++++ 0.1606	++++ 0.1518	++++ 0.1529	0.1659	0.1549	Ave		0.1572			3.8		30.0				
Chloroform	++++ 2.2140	2.3865 2.1319	2.3238 2.0362	2.3519	2.1930	Ave		2.2339			5.7		30.0				
1,1,1-Trichloroethane	++++ 0.4499	0.4704 0.4352	0.4665 0.4611	0.4759	0.4363	Ave		0.4565			3.6		30.0				
Cyclohexane	++++ 0.2802	0.2903 0.2756	0.2698 0.2948	0.2807	0.2720	Ave		0.2805			3.3		30.0				
Benzene	++++ 0.5802	0.6433 0.5730	0.5902 0.6008	0.5895	0.5688	Ave		0.5923			4.2		30.0				
2,2,4-Trimethylpentane	++++ 0.8737	0.9119 0.8496	0.8673 0.8870	0.9116	0.8732	Ave		0.8821			2.6		30.0				
1,2-Dichloroethane	++++ 0.2617	0.2786 0.2500	0.2746 0.2581	0.2845	0.2573	Ave		0.2664			4.8		30.0				
n-Heptane	++++ 0.3082	0.3322 0.2952	0.3226 0.3039	0.3325	0.3119	Ave		0.3152			4.5		30.0				
n-Butanol	++++ 0.0546	0.0544	0.0619	0.0604	0.0580	Ave		0.0579			5.8		30.0				
Carbon tetrachloride	0.5151 0.4828	0.4602 0.4675	0.4634 0.5042	0.5007	0.4614	Ave		0.4819			4.6		30.0				
1,2-Dichloropropane	++++ 0.1966	0.2083 0.1933	0.1892 0.1958	0.2037	0.1917	Ave		0.1969			3.4		30.0				
Methyl methacrylate	++++ 0.1803	++++ 0.1783	0.1331 0.1864	0.1644	0.1664	Ave		0.1681			11.4		30.0				
1,4-Dioxane	++++ 0.0712	++++ 0.0699	++++ 0.0667	0.0745	0.0684	Ave		0.0702			4.3		30.0				
Dibromomethane	++++ 0.2615	0.2443 0.2624	0.2296 0.2869	0.2527	0.2476	Ave		0.2550			7.0		30.0				
Bromodichloromethane	++++ 0.4495	0.4062 0.4369	0.4072 0.4516	0.4639	0.4358	Ave		0.4359			5.1		30.0				
cis-1,3-Dichloropropene	++++ 0.3324	0.3100 0.3254	0.3061 0.3372	0.3336	0.3202	Ave		0.3236			3.7		30.0				
Methyl isobutyl ketone	++++ 0.2985	++++ 0.2797	++++ 0.2847	0.2594	0.2942	Ave		0.2796			5.9		30.0				
Trichloroethene	0.2875 0.2737	0.2880 0.2723	0.2663 0.2930	0.2792	0.2700	Ave		0.2787			3.5		30.0				
Toluene	++++ 0.4835	0.4815 0.4825	0.4540 0.4965	0.4943	0.4634	Ave		0.4794			3.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	++++ 0.4230	0.4381 0.4028	0.4328 0.4014	0.4562	0.4227	Ave		0.4253			4.6		30.0				
trans-1,3-Dichloropropene	++++ 0.3369	0.3008 0.3272	0.2874 0.3415	0.3314	0.3197	Ave		0.3207			6.2		30.0				
1,1,2-Trichloroethane	++++ 0.2181	0.2203 0.2156	0.2095 0.2188	0.2245	0.2072	Ave		0.2163			2.8		30.0				
Tetrachloroethene	++++ 0.4576	0.4531 0.4611	0.4152 0.4946	0.4561	0.4262	Ave		0.4520			5.7		30.0				
Methyl Butyl Ketone (2-Hexanone)	++++ 0.2980	++++ 0.2840	0.2417 0.2949	0.2986	0.2583	Ave		0.2793			8.5		30.0				
Dibromochloromethane	++++ 0.5178	0.3838 0.5183	0.3915 0.5408	0.5062	0.4712	Ave		0.4757			13.4		30.0				
1,2-Dibromoethane	++++ 0.4414	0.3774 0.4387	0.3681 0.4527	0.4415	0.4088	Ave		0.4184			8.1		30.0				
Chlorobenzene	++++ 0.7086	0.6912 0.7037	0.6536 0.7341	0.7082	0.6592	Ave		0.6941			4.1		30.0				
Ethylbenzene	++++ 1.0414	0.9953 1.0249	0.9260 1.0839	1.0198	0.9674	Ave		1.0084			5.1		30.0				
n-Nonane	++++ 0.4527	0.4381 0.4333	0.4084 0.4449	0.4659	0.4292	Ave		0.4389			4.2		30.0				
m,p-Xylene	++++ 0.4453	0.3947 0.4335	0.3717 0.4599	0.4270	0.4087	Ave		0.4201			7.2		30.0				
Xylene, o-	++++ 0.4315	0.3697 0.4221	0.3672 0.4420	0.4158	0.3987	Ave		0.4067			7.2		30.0				
Styrene	++++ 0.6545	0.4186 0.6503	0.4137 0.7079	0.5892	0.5921	Ave		0.5752			20.2		30.0				
Bromoform	++++ 0.5234	0.3362 0.5184	0.3369 0.5577	0.4886	0.4670	Ave		0.4612			19.5		30.0				
Cumene	++++ 1.2449	1.0564 1.2187	1.0303 1.3045	1.1942	1.1407	Ave		1.1699			8.5		30.0				
1,1,2,2-Tetrachloroethane	++++ 0.5594	0.4939 0.5417	0.4842 0.5651	0.5497	0.5110	Ave		0.5293			6.2		30.0				
1,2,3-Trichloropropane	++++ 0.4464	++++ 0.4251	0.3994 0.4337	0.4504	0.4130	Ave		0.4280			4.6		30.0				
n-Propylbenzene	++++ 1.4270	1.0943 1.3800	1.1149 1.4648	1.3660	1.3033	Ave		1.3072			11.3		30.0				
4-Ethyltoluene	++++ 1.2731	0.8881 1.2219	0.9346 1.2697	1.1957	1.1452	Ave		1.1326			13.9		30.0				
n-Decane	++++ 0.5415	++++ 0.4921	0.4309 0.4565	0.5550	0.5122	Ave		0.4980			9.7		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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														
2-Chlorotoluene	++++ 1.0237	0.9527 0.9776	0.8777 0.9916	1.0255	0.9416	Ave		0.9700			5.3		30.0				
1,3,5-Trimethylbenzene	++++ 1.0725	0.8271 1.0376	0.8267 1.1237	1.0221	0.9668	Ave		0.9824			11.8		30.0				
Alpha Methyl Styrene	++++ 0.5424	0.2741 0.5371	0.2919 0.5934	0.4862	0.4835	Ave		0.4584			27.4		30.0				
tert-Butylbenzene	++++ 1.0660	0.8471 1.0342	0.8697 1.1094	1.0242	0.9632	Ave		0.9877			10.0		30.0				
1,2,4-Trimethylbenzene	++++ 1.0623	0.7512 1.0193	0.7523 1.1125	1.0052	0.9499	Ave		0.9504			15.2		30.0				
sec-Butylbenzene	++++ 1.5249	1.1189 1.4757	1.1564 1.5976	1.4642	1.3776	Ave		1.3879			13.2		30.0				
4-Isopropyltoluene	++++ 1.3417	0.8530 1.2959	0.9130 1.4136	1.2477	1.1837	Ave		1.1784			18.2		30.0				
1,3-Dichlorobenzene	++++ 0.7348	0.5588 0.7132	0.5407 0.8024	0.6860	0.6499	Ave		0.6694			14.1		30.0				
1,4-Dichlorobenzene	++++ 0.7123	0.5378 0.6954	0.5185 0.7879	0.6573	0.6287	Ave		0.6483			14.8		30.0				
Benzyl chloride	++++ 0.8213	0.5097 0.7993	0.4763 0.9010	0.7128	0.7009	Ave		0.7030			22.6		30.0				
n-Butylbenzene	++++ 1.0531	0.5909 0.9990	0.6111 1.0906	0.9419	0.9124	Ave		0.8856			23.0		30.0				
n-Undecane	++++ 0.5151	++++ 0.4433	++++ 0.5222	0.4232	0.4044	Ave		0.4617			11.7		30.0				
1,2-Dichlorobenzene	++++ 0.6881	0.5127 0.6634	0.5013 0.7433	0.6447	0.6044	Ave		0.6226			14.4		30.0				
n-Dodecane	++++ 0.2706	++++ 0.2045	++++ 0.3015	0.2987	0.2448	Ave		0.2640			15.3		30.0				
1,2,4-Trichlorobenzene	++++ 0.2947	++++ 0.2692	0.2232 0.3580	0.2901	0.2335	Ave		0.2781			17.5		30.0				
Hexachlorobutadiene	++++ 0.4011	0.2962 0.3751	0.2901 0.4087	0.3822	0.3391	Ave		0.3561			13.6		30.0				
Naphthalene	++++ 0.5959	++++ 0.5080	0.4051 0.7434	0.5750	0.4881	Ave		0.5526			20.9		30.0				
1,2,3-Trichlorobenzene	++++ 0.2299	0.1800 0.2069	0.1848 0.2710	0.2348	0.1940	Ave		0.2145			15.2		30.0				

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-43490/3	ckz003.d
Level 2	IC 200-43490/4	ckz004.d
Level 3	IC 200-43490/5	ckz005.d
Level 4	IC 200-43490/6	ckz006.d
Level 5	ICIS 200-43490/15	ckz015.d
Level 6	IC 200-43490/8	ckz008.d
Level 7	IC 200-43490/9	ckz009.d
Level 8	IC 200-43490/10	ckz010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8			LVL 6	LVL 7	LVL 8		
Propylene	BCM	Ave	++++ 393566	++++ 536817	13040 1063874	127364	283059	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dichlorodifluoromethane	BCM	Ave	++++ 1687394	++++ 2373061	54156 4827325	524916	1129574	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Freon 22	BCM	Ave	++++ 840224	++++ 1148663	28864 2318035	267662	577311	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2-Dichlorotetrafluoroethane	BCM	Ave	++++ 1747564	22087 2457381	50270 5017164	517629	1151940	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloromethane	BCM	Ave	++++ 466665	++++ 642841	15529 1299651	146550	325650	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Butane	BCM	Ave	++++ 840295	++++ 1136393	26294 2269233	263379	590701	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,3-Butadiene	BCM	Ave	++++ 428417	5285 594316	12729 1204410	128623	290672	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Acrolein	BCM	Ave	++++ 185751	++++ 256344	++++ 514321	51122	120447	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Vinyl chloride	BCM	Ave	1524 586988	7480 817235	16827 1662035	175401	396687	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromomethane	BCM	Ave	++++ 569942	7006 828656	16245 1693799	164502	379780	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chloroethane	BCM	Ave	++++ 302553	++++ 423646	8516 868559	89570	202738	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Isopentane	BCM	Ave	++++ 622540	8346 867881	19836 1741356	195472	426219	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoethene (Vinyl Bromide)	BCM	Ave	++++ 611435	7572 887634	17011 1848007	172557	402574	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Trichlorofluoromethane	BCM	Ave	++++ 1783517	22776 2496706	54619 5120772	547854	1161002	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Pentane	BCM	Ave	++++ 986163	++++ 1363630	29541 2739630	301630	674005	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	
Ethanol	BCM	Ave	++++ 195794	++++ 423287	43784 996073	90045	147960	++++ 20.0	++++ 40.0	5.00 100	10.0	15.0	
Ethyl ether	BCM	Ave	++++ 386647	++++ 539131	10625 1067046	111163	254247	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Freon TF	BCM	Ave	++++ 1247555	++++ 1785541	38654 3705569	365245	822029	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
tert-Butyl alcohol	BCM	Ave	++++ 736341	++++ 1011441	++++ 2093862	234420	509154	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
1,1-Dichloroethene	BCM	Ave	++++ 590970	++++ 845197	7505 17040 1782667	169248	389344	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acetone	BCM	Ave	++++ 695313	++++ 929650	++++ 1808368	220856	508549	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
Carbon disulfide	BCM	Ave	++++ 1679909	++++ 2418141	47375 5052073	489232	1119189	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Isopropyl alcohol	BCM	Ave	++++ 491424	++++ 682994	++++ 1296594	156350	333318	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
3-Chloropropene	BCM	Ave	++++ 708216	++++ 979703	8784 20186 2000333	210440	467926	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acetonitrile	BCM	Ave	++++ 308270	++++ 377267	++++ 825669	86464	189950	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
Methylene Chloride	BCM	Ave	++++ 564476	++++ 785574	20407 1581183	177376	382450	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Methyl tert-butyl ether	BCM	Ave	++++ 1691850	++++ 2358384	20302 4738158	483116	1087102	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
trans-1,2-Dichloroethene	BCM	Ave	++++ 878373	++++ 1221256	10681 25276 2496079	266907	578583	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Acrylonitrile	BCM	Ave	++++ 352996	++++ 489994	++++ 1011403	8923	101040	230986	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Ethyl acetate	BCM	Ave	++++ 53550	++++ 76824	++++ 158228	14712	33878	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
n-Hexane	BCM	Ave	++++ 943974	++++ 1328827	11659 2722223	283502	636047	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
1,1-Dichloroethane	BCM	Ave	++++ 1108709	++++ 1557111	14225 32811 3198805	337595	742485	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Vinyl acetate	BCM	Ave	++++ 1239854	++++ 1709438	++++ 3384215	350751	802692	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	
cis-1,2-Dichloroethene	BCM	Ave	++++ 679576	++++ 982350	9262 20666 2051085	196752	451438	++++ 15.0	++++ 20.0	0.200 40.0	5.00	10.0	
Methyl Ethyl Ketone	BCM	Ave	++++ 270226	++++ 383108	++++ 7573 758972	75894	174301	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0	
Tetrahydrofuran	DFB	Ave	++++ 555906	++++ 761622	++++ 1491236	165101	362068	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0	

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	++++ 1384145	17381 1948138	40941 4005308	417596	919514	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,1-Trichloroethane	DFB	Ave	++++ 1556934	19132 2183499	46194 4498299	473681	1020074	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cyclohexane	DFB	Ave	++++ 969727	11808 1382842	26715 2875788	279394	636062	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzene	DFB	Ave	++++ 2008021	26166 2874734	58442 5861699	586751	1329811	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
2,2,4-Trimethylpentane	DFB	Ave	++++ 3023710	37093 4262374	85877 8653827	907351	2041604	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloroethane	DFB	Ave	++++ 905678	11331 1254053	27191 2518111	283185	601581	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Heptane	DFB	Ave	++++ 1066712	13511 1481103	31946 2965258	331000	729294	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butanol	DFB	Ave	++++ 189079	++++ 272944	++++ 604323	60155	135583	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Carbon tetrachloride	DFB	Ave	4394 1670958	18719 2345482	45880 4919166	498385	1078834	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dichloropropane	DFB	Ave	++++ 680514	8471 969733	18732 1910510	202786	448163	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl methacrylate	DFB	Ave	++++ 623788	++++ 894560	13183 1818413	163651	388995	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,4-Dioxane	DFB	Ave	++++ 246521	++++ 350811	++++ 650303	74196	159944	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
Dibromomethane	DFB	Ave	++++ 905001	9939 1316604	22730 2799296	251523	578927	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromodichloromethane	DFB	Ave	++++ 1555426	16523 2191881	40315 4405637	461707	1018972	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
cis-1,3-Dichloropropene	DFB	Ave	++++ 1150398	12608 1632459	30308 3289522	332086	748632	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl isobutyl ketone	DFB	Ave	++++ 1032913	++++ 1403370	25685 2777113	292876	610844	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Trichloroethene	DFB	Ave	2452 947186	11714 1365930	26365 2858818	277869	631256	0.0400 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Toluene	CBZ	Ave	++++ 1532941	17855 2202530	41556 4448120	439755	1009776	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Octane	DFB	Ave	++++ 1463679	17820 2020913	42856 3915874	454106	988252	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
trans-1,3-Dichloropropene	DFB	Ave	++++ 1166001	12235 1641621	28452 3332037	329846	747465	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2-Trichloroethane	CBZ	Ave	++++ 691388	8167 983941	19172 1959711	199746	451489	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
 AIR - GC/MS VOA INITIAL CALIBRATION DATA  
 INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	CBZ	Ave	++++ 1450848	16802 2104727	38008 4431081	405766	928617	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Methyl Butyl Ketone (2-Hexanone)	CBZ	Ave	++++ 944792	++++ 1296084	++++ 22126 2641748	265661	562900	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Dibromochloromethane	CBZ	Ave	++++ 1641809	14230 2365702	35839 4844163	450291	1026857	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2-Dibromoethane	CBZ	Ave	++++ 1399518	13995 2002421	33697 4055501	392787	890755	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Chlorobenzene	CBZ	Ave	++++ 2246719	25629 3211968	59828 6576503	630032	1436363	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Ethylbenzene	CBZ	Ave	++++ 3302057	36906 4678329	84758 9709309	907186	2107945	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Nonane	CBZ	Ave	++++ 1435289	16244 1978008	37379 3985736	414432	935342	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
m,p-Xylene	CBZ	Ave	++++ 2823904	29267 3957139	68046 8239271	759733	1781171	++++ 30.0	0.400 40.0	1.00 80.0	10.0	20.0
Xylene, o-	CBZ	Ave	++++ 1368167	13709 1926863	33614 3959827	369852	868813	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Styrene	CBZ	Ave	++++ 2075226	15521 2968156	37864 6341806	524148	1290186	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Bromoform	CBZ	Ave	++++ 1659606	12464 2366238	30836 4995494	434651	1017655	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Cumene	CBZ	Ave	++++ 3947303	39171 5562721	94306 11685494	1062326	2485603	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	++++ 1773677	18312 2472348	44322 5061975	488992	1113422	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichloropropane	CBZ	Ave	++++ 1415521	++++ 1940206	36558 3884902	400659	899864	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
n-Propylbenzene	CBZ	Ave	++++ 4524580	40576 6298984	102048 13121769	1215235	2840068	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Ethyltoluene	CBZ	Ave	++++ 4036789	32929 5577490	85543 11374226	1063720	2495383	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Decane	CBZ	Ave	++++ 1716815	++++ 2246198	39442 4089282	493744	1116216	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
2-Chlorotoluene	CBZ	Ave	++++ 3245736	35324 4462218	80335 8882480	912240	2051831	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3,5-Trimethylbenzene	CBZ	Ave	++++ 3400461	30668 4736016	75673 10066067	909268	2106707	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Alpha Methyl Styrene	CBZ	Ave	++++ 1719742	10162 2451434	26719 5316033	432507	1053537	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
tert-Butylbenzene	CBZ	Ave	++++ 3380018	31409 4720355	79610 9938298	911084	2098797	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

FORM VI  
AIR - GC/MS VOA INITIAL CALIBRATION DATA  
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Burlington Job No.: 200-12430-1 Analy Batch No.: 43490

SDG No.: \_\_\_\_\_

Instrument ID: C.i GC Column: RTX-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/14/2012 18:13 Calibration End Date: 08/15/2012 08:24 Calibration ID: 17120

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	CBZ	Ave	++++ 3368303	27852 4652357	68858 9966136	894230	2069833	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
sec-Butylbenzene	CBZ	Ave	++++ 4835073	41489 6735894	105849 14311357	1302558	3001987	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
4-Isopropyltoluene	CBZ	Ave	++++ 4254247	31629 5915135	83572 12663046	1109988	2579274	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,3-Dichlorobenzene	CBZ	Ave	++++ 2329856	20720 3255522	49495 7188170	610301	1416167	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
1,4-Dichlorobenzene	CBZ	Ave	++++ 2258369	19940 3174265	47456 7057943	584758	1369962	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Benzyl chloride	CBZ	Ave	++++ 2604019	18898 3648254	43600 8071371	634101	1527206	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Butylbenzene	CBZ	Ave	++++ 3339168	21909 4559870	55935 9769839	837955	1988185	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Undecane	CBZ	Ave	++++ 1633244	++++ 2023452	++++ 4678209	376487	881223	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,2-Dichlorobenzene	CBZ	Ave	++++ 2181647	19010 3027941	45888 6658200	573557	1317115	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
n-Dodecane	CBZ	Ave	++++ 857889	++++ 933475	++++ 2701195	265689	533363	++++ 15.0	++++ 20.0	++++ 40.0	5.00	10.0
1,2,4-Trichlorobenzene	CBZ	Ave	++++ 934260	++++ 1228920	20429 3207300	258080	508705	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
Hexachlorobutadiene	CBZ	Ave	++++ 1271862	10984 1712222	26553 3660873	339968	738987	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0
Naphthalene	CBZ	Ave	++++ 1889409	++++ 2318811	37078 6659792	511479	1063574	++++ 15.0	++++ 20.0	0.500 40.0	5.00	10.0
1,2,3-Trichlorobenzene	CBZ	Ave	++++ 729064	6673 944178	16918 2427773	208922	422731	++++ 15.0	0.200 20.0	0.500 40.0	5.00	10.0

Curve Type Legend:

Ave = Average ISTD

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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	0.6484	0.6663		10.3	10.0	2.8	30.0
Dichlorodifluoromethane	Ave	2.746	2.788		10.2	10.0	1.5	30.0
Freon 22	Ave	1.384	1.408		10.2	10.0	1.7	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.787		9.96	10.0	-0.4	30.0
Chloromethane	Ave	0.7657	0.7830		10.2	10.0	2.3	30.0
n-Butane	Ave	1.354	1.389		10.3	10.0	2.6	30.0
Vinyl chloride	Ave	0.9506	0.9470		9.96	10.0	-0.4	30.0
1,3-Butadiene	Ave	0.6877	0.7223		10.5	10.0	5.0	30.0
Bromomethane	Ave	0.9137	0.8865		9.70	10.0	-3.0	30.0
Chloroethane	Ave	0.4767	0.4754		9.97	10.0	-0.3	30.0
Isopentane	Ave	1.031	1.028		9.96	10.0	-0.3	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9751	0.9765		10.0	10.0	0.1	30.0
Trichlorofluoromethane	Ave	2.896	2.875		9.93	10.0	-0.7	30.0
n-Pentane	Ave	1.574	1.575		10.0	10.0	0.0	30.0
Ethanol	Ave	0.2344	0.2513		16.1	15.0	7.2	30.0
Ethyl ether	Ave	0.5994	0.6146		10.3	10.0	2.5	30.0
Acrolein	Ave	0.2829	0.2616		9.25	10.0	-7.5	30.0
Freon TF	Ave	2.025	2.150		10.6	10.0	6.2	30.0
1,1-Dichloroethene	Ave	0.9508	1.032		10.9	10.0	8.6	30.0
Acetone	Ave	1.101	1.208		11.0	10.0	9.7	30.0
Carbon disulfide	Ave	2.669	2.747		10.3	10.0	2.9	30.0
Isopropyl alcohol	Ave	0.7736	0.8070		10.4	10.0	4.3	30.0
3-Chloropropene	Ave	1.125	1.202		10.7	10.0	6.9	30.0
Acetonitrile	Ave	0.4531	0.5060		11.2	10.0	11.7	30.0
Methylene Chloride	Ave	0.9393	0.997		10.6	10.0	6.1	30.0
tert-Butyl alcohol	Ave	1.177	1.247		10.6	10.0	6.0	30.0
Methyl tert-butyl ether	Ave	2.647	2.814		10.6	10.0	6.3	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.427		10.2	10.0	2.0	30.0
Acrylonitrile	Ave	0.5402	0.6030		11.2	10.0	11.6	30.0
n-Hexane	Ave	1.513	1.551		10.2	10.0	2.5	30.0
1,1-Dichloroethane	Ave	1.799	1.826		10.1	10.0	1.5	30.0
Vinyl acetate	Ave	1.893	2.057		10.9	10.0	8.7	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.121		10.0	10.0	0.2	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4474		10.7	10.0	6.9	30.0
Ethyl acetate	Ave	0.0828	0.0876		10.6	10.0	5.9	30.0
Tetrahydrofuran	Ave	0.1572	0.1703		10.8	10.0	8.3	30.0
Chloroform	Ave	2.234	2.250		10.1	10.0	0.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4551		9.97	10.0	-0.3	30.0
Cyclohexane	Ave	0.2805	0.2822		10.1	10.0	0.6	30.0
Carbon tetrachloride	Ave	0.4819	0.4760		9.88	10.0	-1.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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
Benzene	Ave	0.5923	0.5887		9.94	10.0	-0.6	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.8996		10.2	10.0	2.0	30.0
1,2-Dichloroethane	Ave	0.2664	0.2710		10.2	10.0	1.7	30.0
n-Heptane	Ave	0.3152	0.3254		10.3	10.0	3.2	30.0
n-Butanol	Ave	0.0579	0.0581		10.0	10.0	0.4	30.0
Trichloroethene	Ave	0.2787	0.2714		9.73	10.0	-2.6	30.0
1,2-Dichloropropane	Ave	0.1969	0.1920		9.75	10.0	-2.5	30.0
Methyl methacrylate	Ave	0.1681	0.1777		10.6	10.0	5.7	30.0
1,4-Dioxane	Ave	0.0702	0.0639		9.11	10.0	-8.9	30.0
Dibromomethane	Ave	0.2550	0.2525		9.90	10.0	-1.0	30.0
Bromodichloromethane	Ave	0.4359	0.4614		10.6	10.0	5.9	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3222		9.96	10.0	-0.4	30.0
Methyl isobutyl ketone	Ave	0.2796	0.3062		10.9	10.0	9.5	30.0
Toluene	Ave	0.4794	0.4739		9.88	10.0	-1.1	30.0
n-Octane	Ave	0.4253	0.4341		10.2	10.0	2.1	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3284		10.2	10.0	2.4	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2048		9.47	10.0	-5.3	30.0
Tetrachloroethene	Ave	0.4520	0.4338		9.60	10.0	-4.0	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.3020		10.8	10.0	8.1	30.0
Dibromochloromethane	Ave	0.4757	0.5164		10.9	10.0	8.6	30.0
1,2-Dibromoethane	Ave	0.4184	0.4150		9.92	10.0	-0.8	30.0
Chlorobenzene	Ave	0.6941	0.6711		9.67	10.0	-3.3	30.0
Ethylbenzene	Ave	1.008	1.035		10.3	10.0	2.7	30.0
n-Nonane	Ave	0.4389	0.4666		10.6	10.0	6.3	30.0
m,p-Xylene	Ave	0.4201	0.4322		20.6	20.0	2.9	30.0
Xylene, o-	Ave	0.4067	0.4199		10.3	10.0	3.2	30.0
Styrene	Ave	0.5752	0.6271		10.9	10.0	9.0	30.0
Bromoform	Ave	0.4612	0.5131		11.1	10.0	11.3	30.0
Cumene	Ave	1.170	1.245		10.6	10.0	6.4	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5402		10.2	10.0	2.1	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4535		10.6	10.0	6.0	30.0
n-Propylbenzene	Ave	1.307	1.431		10.9	10.0	9.4	30.0
4-Ethyltoluene	Ave	1.133	1.288		11.4	10.0	13.8	30.0
n-Decane	Ave	0.4980	0.5713		11.5	10.0	14.7	30.0
2-Chlorotoluene	Ave	0.9700	1.058		10.9	10.0	9.0	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	1.049		10.7	10.0	6.8	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5383		11.7	10.0	17.4	30.0
tert-Butylbenzene	Ave	0.9877	1.083		11.0	10.0	9.6	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	1.025		10.8	10.0	7.9	30.0
sec-Butylbenzene	Ave	1.388	1.543		11.1	10.0	11.2	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 200-43490/18 Calibration Date: 08/15/2012 11:09  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckz018.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	1.178	1.346		11.4	10.0	14.3	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.6994		10.4	10.0	4.5	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6868		10.6	10.0	5.9	30.0
Benzyl chloride	Ave	0.7030	0.8020		11.4	10.0	14.1	30.0
n-Butylbenzene	Ave	0.8856	1.055		11.9	10.0	19.1	30.0
n-Undecane	Ave	0.4617	0.5107		11.1	10.0	10.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6471		10.4	10.0	3.9	30.0
n-Dodecane	Ave	0.2640	0.2963		11.2	10.0	12.2	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.2872		10.3	10.0	3.3	30.0
Hexachlorobutadiene	Ave	0.3561	0.4031		11.3	10.0	13.2	30.0
Naphthalene	Ave	0.5526	0.6238		11.3	10.0	12.9	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2570		12.0	10.0	19.8	30.0



FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44377/2 Calibration Date: 08/31/2012 10:14  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzm002.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	0.6484	0.6286		9.69	10.0	-3.1	30.0
Dichlorodifluoromethane	Ave	2.746	2.884		10.5	10.0	5.0	30.0
Freon 22	Ave	1.384	1.426		10.3	10.0	3.1	30.0
1,2-Dichlorotetrafluoroethane	Ave	2.798	2.772		9.91	10.0	-0.9	30.0
Chloromethane	Ave	0.7657	0.7247		9.46	10.0	-5.4	30.0
n-Butane	Ave	1.354	1.308		9.65	10.0	-3.4	30.0
Vinyl chloride	Ave	0.9506	0.8829		9.29	10.0	-7.1	30.0
1,3-Butadiene	Ave	0.6877	0.6469		9.41	10.0	-5.9	30.0
Bromomethane	Ave	0.9137	0.8515		9.32	10.0	-6.8	30.0
Chloroethane	Ave	0.4767	0.4249		8.91	10.0	-10.9	30.0
Isopentane	Ave	1.031	0.9081		8.80	10.0	-12.0	30.0
Bromoethene (Vinyl Bromide)	Ave	0.9751	0.9175		9.41	10.0	-5.9	30.0
Trichlorofluoromethane	Ave	2.896	2.993		10.3	10.0	3.3	30.0
n-Pentane	Ave	1.574	1.450		9.21	10.0	-7.9	30.0
Ethanol	Ave	0.2344	0.2129		13.6	15.0	-9.2	30.0
Ethyl ether	Ave	0.5994	0.5967		9.95	10.0	-0.4	30.0
Acrolein	Ave	0.2829	0.2498		8.83	10.0	-11.7	30.0
Freon TF	Ave	2.025	1.936		9.56	10.0	-4.4	30.0
1,1-Dichloroethene	Ave	0.9508	0.8977		9.44	10.0	-5.6	30.0
Acetone	Ave	1.101	1.291		11.7	10.0	17.2	30.0
Carbon disulfide	Ave	2.669	2.483		9.30	10.0	-7.0	30.0
Isopropyl alcohol	Ave	0.7736	0.8452		10.9	10.0	9.3	30.0
3-Chloropropene	Ave	1.125	1.081		9.61	10.0	-3.9	30.0
Acetonitrile	Ave	0.4531	0.4751		10.5	10.0	4.8	30.0
Methylene Chloride	Ave	0.9393	0.8577		9.13	10.0	-8.7	30.0
tert-Butyl alcohol	Ave	1.177	1.412		12.0	10.0	20.0	30.0
Methyl tert-butyl ether	Ave	2.647	2.693		10.2	10.0	1.7	30.0
trans-1,2-Dichloroethene	Ave	1.399	1.349		9.64	10.0	-3.6	30.0
Acrylonitrile	Ave	0.5402	0.5299		9.81	10.0	-1.9	30.0
n-Hexane	Ave	1.513	1.388		9.17	10.0	-8.3	30.0
1,1-Dichloroethane	Ave	1.799	1.697		9.43	10.0	-5.6	30.0
Vinyl acetate	Ave	1.893	1.916		10.1	10.0	1.2	30.0
cis-1,2-Dichloroethene	Ave	1.119	1.029		9.19	10.0	-8.0	30.0
Methyl Ethyl Ketone	Ave	0.4184	0.4007		9.57	10.0	-4.2	30.0
Ethyl acetate	Ave	0.0828	0.0777		9.38	10.0	-6.1	30.0
Tetrahydrofuran	Ave	0.1572	0.1510		9.60	10.0	-4.0	30.0
Chloroform	Ave	2.234	2.217		9.92	10.0	-0.7	30.0
1,1,1-Trichloroethane	Ave	0.4565	0.4640		10.2	10.0	1.7	30.0
Cyclohexane	Ave	0.2805	0.2577		9.19	10.0	-8.1	30.0
Carbon tetrachloride	Ave	0.4819	0.4964		10.3	10.0	3.0	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44377/2 Calibration Date: 08/31/2012 10:14  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzm002.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
Benzene	Ave	0.5923	0.5363		9.05	10.0	-9.4	30.0
2,2,4-Trimethylpentane	Ave	0.8821	0.7928		8.99	10.0	-10.1	30.0
1,2-Dichloroethane	Ave	0.2664	0.2795		10.5	10.0	4.9	30.0
n-Heptane	Ave	0.3152	0.2866		9.09	10.0	-9.1	30.0
n-Butanol	Ave	0.0579	0.0548		9.47	10.0	-5.3	30.0
Trichloroethene	Ave	0.2787	0.2662		9.55	10.0	-4.5	30.0
1,2-Dichloropropane	Ave	0.1969	0.1816		9.22	10.0	-7.8	30.0
Methyl methacrylate	Ave	0.1681	0.1606		9.55	10.0	-4.5	30.0
1,4-Dioxane	Ave	0.0702	0.0761		10.8	10.0	8.4	30.0
Dibromomethane	Ave	0.2550	0.2625		10.3	10.0	2.9	30.0
Bromodichloromethane	Ave	0.4359	0.4500		10.3	10.0	3.3	30.0
cis-1,3-Dichloropropene	Ave	0.3236	0.3173		9.81	10.0	-1.9	30.0
Methyl isobutyl ketone	Ave	0.2796	0.2833		10.1	10.0	1.3	30.0
Toluene	Ave	0.4794	0.4566		9.52	10.0	-4.8	30.0
n-Octane	Ave	0.4253	0.4025		9.46	10.0	-5.4	30.0
trans-1,3-Dichloropropene	Ave	0.3207	0.3382		10.5	10.0	5.5	30.0
1,1,2-Trichloroethane	Ave	0.2163	0.2028		9.38	10.0	-6.2	30.0
Tetrachloroethene	Ave	0.4520	0.4507		9.97	10.0	-0.3	30.0
Methyl Butyl Ketone (2-Hexanone)	Ave	0.2793	0.2786		9.97	10.0	-0.3	30.0
Dibromochloromethane	Ave	0.4757	0.5010		10.5	10.0	5.3	30.0
1,2-Dibromoethane	Ave	0.4184	0.4207		10.1	10.0	0.6	30.0
Chlorobenzene	Ave	0.6941	0.6687		9.63	10.0	-3.7	30.0
Ethylbenzene	Ave	1.008	0.9780		9.70	10.0	-3.0	30.0
n-Nonane	Ave	0.4389	0.4124		9.39	10.0	-6.1	30.0
m,p-Xylene	Ave	0.4201	0.4194		20.0	20.0	-0.2	30.0
Xylene, o-	Ave	0.4067	0.4093		10.1	10.0	0.6	30.0
Styrene	Ave	0.5752	0.6008		10.4	10.0	4.5	30.0
Bromoform	Ave	0.4612	0.5061		11.0	10.0	9.8	30.0
Cumene	Ave	1.170	1.168		9.98	10.0	-0.2	30.0
1,1,2,2-Tetrachloroethane	Ave	0.5293	0.5171		9.77	10.0	-2.3	30.0
1,2,3-Trichloropropane	Ave	0.4280	0.4274		9.98	10.0	-0.1	30.0
n-Propylbenzene	Ave	1.307	1.326		10.1	10.0	1.5	30.0
4-Ethyltoluene	Ave	1.133	1.185		10.5	10.0	4.6	30.0
n-Decane	Ave	0.4980	0.5119		10.3	10.0	2.8	30.0
2-Chlorotoluene	Ave	0.9700	0.9864		10.2	10.0	1.7	30.0
1,3,5-Trimethylbenzene	Ave	0.9824	0.9943		10.1	10.0	1.2	30.0
Alpha Methyl Styrene	Ave	0.4584	0.5055		11.0	10.0	10.3	30.0
tert-Butylbenzene	Ave	0.9877	1.009		10.2	10.0	2.2	30.0
1,2,4-Trimethylbenzene	Ave	0.9504	0.9854		10.4	10.0	3.7	30.0
sec-Butylbenzene	Ave	1.388	1.414		10.2	10.0	1.9	30.0

FORM VII  
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-44377/2 Calibration Date: 08/31/2012 10:14  
 Instrument ID: C.i Calib Start Date: 08/14/2012 18:13  
 GC Column: RTX-624 ID: 0.32 (mm) Calib End Date: 08/15/2012 08:24  
 Lab File ID: ckzm002.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	1.178	1.246		10.6	10.0	5.7	30.0
1,3-Dichlorobenzene	Ave	0.6694	0.7056		10.5	10.0	5.4	30.0
1,4-Dichlorobenzene	Ave	0.6483	0.6809		10.5	10.0	5.0	30.0
Benzyl chloride	Ave	0.7030	0.6559		9.33	10.0	-6.7	30.0
n-Butylbenzene	Ave	0.8856	0.9648		10.9	10.0	8.9	30.0
n-Undecane	Ave	0.4617	0.4692		10.2	10.0	1.6	30.0
1,2-Dichlorobenzene	Ave	0.6226	0.6625		10.6	10.0	6.4	30.0
n-Dodecane	Ave	0.2640	0.2652		10.0	10.0	0.5	30.0
1,2,4-Trichlorobenzene	Ave	0.2781	0.3086		11.1	10.0	11.0	30.0
Hexachlorobutadiene	Ave	0.3561	0.3979		11.2	10.0	11.7	30.0
Naphthalene	Ave	0.5526	0.6228		11.3	10.0	12.7	30.0
1,2,3-Trichlorobenzene	Ave	0.2145	0.2545		11.9	10.0	18.7	30.0

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44377/4  
 Matrix: Air Lab File ID: ckzm004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/31/2012 12:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	0.20	U	0.20	0.20
79-01-6	Trichloroethene	131.39	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	165.83	0.20	U	0.20	0.20

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-44377/4  
 Matrix: Air Lab File ID: ckzm004.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/31/2012 12:01  
 Soil Aliquot Vol: \_\_\_\_\_ Dilution Factor: 1  
 Soil Extract Vol.: \_\_\_\_\_ GC Column: RTX-624 ID: 0.32 (mm)  
 % Moisture: \_\_\_\_\_ Level: (low/med) Low  
 Analysis Batch No.: 44377 Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	0.51	U	0.51	0.51
75-35-4	1,1-Dichloroethene	96.94	0.79	U	0.79	0.79
156-60-5	trans-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
156-59-2	cis-1,2-Dichloroethene	96.94	0.79	U	0.79	0.79
540-59-0	1,2-Dichloroethene, Total	96.94	0.79	U	0.79	0.79
79-01-6	Trichloroethene	131.39	1.1	U	1.1	1.1
127-18-4	Tetrachloroethene	165.83	1.4	U	1.4	1.4

US EPA ARCHIVE DOCUMENT

FORM I  
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-12430-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-44377/3  
 Matrix: Air Lab File ID: ckzm003.d  
 Analysis Method: TO-15 Date Collected: \_\_\_\_\_  
 Sample wt/vol: 200(mL) Date Analyzed: 08/31/2012 11:08  
 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.: 44377 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	RL
75-01-4	Vinyl chloride	62.50	9.02		0.20	0.20
75-35-4	1,1-Dichloroethene	96.94	10.2		0.20	0.20
156-60-5	trans-1,2-Dichloroethene	96.94	9.20		0.20	0.20
156-59-2	cis-1,2-Dichloroethene	96.94	9.31		0.20	0.20
540-59-0	1,2-Dichloroethene, Total	96.94	18.5		0.20	0.20
79-01-6	Trichloroethene	131.39	9.16		0.20	0.20
127-18-4	Tetrachloroethene	165.83	9.42		0.20	0.20

US EPA ARCHIVE DOCUMENT

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Start Date: 08/14/2012 16:28

Analysis Batch Number: 43490 End Date: 08/15/2012 11:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-43490/1		08/14/2012 16:28	1	ckz001.d	RTX-624 0.32 (mm)
VIBLK 200-43490/2		08/14/2012 17:21	1		RTX-624 0.32 (mm)
IC 200-43490/3		08/14/2012 18:13	1	ckz003.d	RTX-624 0.32 (mm)
IC 200-43490/4		08/14/2012 19:07	1	ckz004.d	RTX-624 0.32 (mm)
IC 200-43490/5		08/14/2012 20:00	1	ckz005.d	RTX-624 0.32 (mm)
IC 200-43490/6		08/14/2012 20:53	1	ckz006.d	RTX-624 0.32 (mm)
ZZZZZ		08/14/2012 21:47	1		RTX-624 0.32 (mm)
IC 200-43490/8		08/14/2012 22:41	1	ckz008.d	RTX-624 0.32 (mm)
IC 200-43490/9		08/14/2012 23:34	1	ckz009.d	RTX-624 0.32 (mm)
IC 200-43490/10		08/15/2012 00:28	1	ckz010.d	RTX-624 0.32 (mm)
VIBLK 200-43490/11		08/15/2012 01:22	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 02:15	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 03:08	1		RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 04:02	1		RTX-624 0.32 (mm)
ICIS 200-43490/15		08/15/2012 08:24	1	ckz015.d	RTX-624 0.32 (mm)
ZZZZZ		08/15/2012 09:22	1		RTX-624 0.32 (mm)
VIBLK 200-43490/17		08/15/2012 10:16	1		RTX-624 0.32 (mm)
ICV 200-43490/18		08/15/2012 11:09	1	ckz018.d	RTX-624 0.32 (mm)

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Burlington Job No.: 200-12430-1

SDG No.: \_\_\_\_\_

Instrument ID: C.i Start Date: 08/31/2012 09:22

Analysis Batch Number: 44377 End Date: 09/01/2012 08:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 200-44377/1		08/31/2012 09:22	1	ckzm001.d	RTX-624 0.32 (mm)
CCVIS 200-44377/2		08/31/2012 10:14	1	ckzm002.d	RTX-624 0.32 (mm)
LCS 200-44377/3		08/31/2012 11:08	1	ckzm003.d	RTX-624 0.32 (mm)
MB 200-44377/4		08/31/2012 12:01	1	ckzm004.d	RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 13:16	1.5		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 14:10	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 15:03	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 15:56	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 16:50	1		RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 17:44	1		RTX-624 0.32 (mm)
200-12430-13	SUA-02	08/31/2012 18:37	1	ckzm011.d	RTX-624 0.32 (mm)
200-12430-13 DL	SUA-02 DL	08/31/2012 19:31	2	ckzm012.d	RTX-624 0.32 (mm)
200-12430-14	SUA-02/FD	08/31/2012 20:25	1	ckzm013.d	RTX-624 0.32 (mm)
200-12430-14 DL	SUA-02/FD DL	08/31/2012 21:18	2	ckzm014.d	RTX-624 0.32 (mm)
200-12433-3	SUA-01	08/31/2012 22:11	2	ckzm015.d	RTX-624 0.32 (mm)
200-12433-3 DL	SUA-01 DL	08/31/2012 23:05	10	ckzm016.d	RTX-624 0.32 (mm)
ZZZZZ		08/31/2012 23:59	252		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 00:52	347		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 01:46	27.9		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 02:39	1		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 03:32	44.2		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 04:26	1		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 05:20	35.3		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 06:13	1		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 07:06	1		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 08:00	1		RTX-624 0.32 (mm)
ZZZZZ		09/01/2012 08:53	1		RTX-624 0.32 (mm)



# Shipping and Receiving Documents



**TestAmerica Burlington**

30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

<b>Client Contact Information</b>		Project Manager: <u>Tom Zychunski</u>		Samples Collected By: <u>CM</u>				1 of 1 COCs																																											
Company: <u>Burns &amp; McDonnell</u>		Phone: <u>314-682-1500</u>																																																	
Address: <u>485 S. Woods Mill Road</u>		Email: <u>cmathenia@burnsmd.com</u>																																																	
City/State/Zip: <u>Chesterfield, MO 63017</u>		Site Contact: <u>Chemil Methunia</u>																																																	
Phone: <u>314-682-1153</u>		TA Contact: <u>Don Dzwinski</u>																																																	
FAX: <u>---</u>																																																			
Project Name: <u>PKI</u>		<b>Analysis Turnaround Time</b>																																																	
Site: <u>PKI</u>		Standard (Specify)																																																	
PO# <u>200682</u>		<input checked="" type="checkbox"/> Rush (Specify) <u>5 DAY TAT</u>																																																	
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	TO-15	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																																
IA-01	8/22/12	1329	1333	-29	-5	4758	2730	X																																											
IA-02	↓	1254	1249	-30	-10	3300	2919	↓																																											
IA-05	↓	1127	1132	-30	-10	5008	3412	↓																																											
IA-12	8/22/12	1131	1133	-30	-10	4769	2565	X																																											
<table border="1"> <tr> <th colspan="4">Temperature (Fahrenheit)</th> </tr> <tr> <td></td> <td>Interior</td> <td colspan="2">Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Stop</td> <td></td> <td colspan="2"></td> </tr> <tr> <th colspan="4">Pressure (inches of Hg)</th> </tr> <tr> <td></td> <td>Interior</td> <td colspan="2">Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Stop</td> <td></td> <td colspan="2"></td> </tr> </table>																				Temperature (Fahrenheit)					Interior	Ambient		Start				Stop				Pressure (inches of Hg)					Interior	Ambient		Start				Stop			
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Pressure (inches of Hg)																																																			
	Interior	Ambient																																																	
Start																																																			
Stop																																																			
Special Instructions/QC Requirements & Comments:																																																			
Samples Shipped by: <u>[Signature]</u>				Date/Time: <u>8/22/12 1700</u>				Samples Received by: <u>Steph [Signature]</u>				Date/Time: <u>8/22/12</u>																																							
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>8/22/12 1700</u>				Received by:																																											
Relinquished by:				Date/Time:				Received by:																																											



**TestAmerica Burlington**

30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

Client Contact Information		Project Manager: <u>Tom Zichanski</u>		Samples Collected By: <u>(Signature)</u>		of <u>1</u> COCs																																													
Company: <u>Burns &amp; McDonnell</u>		Phone: <u>314-682-1500</u>																																																	
Address: <u>425 S. Wood's Mill Rd</u>		Email: <u>cmathenia@burnsmcd.com</u>																																																	
City/State/Zip: <u>Charleston, MO 64601</u>		Site Contact: <u>Cheryl Mathenia</u>																																																	
Phone: <u>314-682-1653</u>		TA Contact: <u>Don Dawicki</u>																																																	
FAX:																																																			
Project Name: <u>PIU</u>		Analysis Turnaround Time																																																	
Site: <u>PIU</u>		Standard (Specify)																																																	
PO # <u>26682</u>		X Rush (Specify) <u>5 DAY</u>																																																	
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	TO-15 LL	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																																
<u>IA-08/ED</u>	<u>8/24/12</u>	<u>1559</u>	<u>1553</u>	<u>-29</u>	<u>-5</u>	<u>4048</u>	<u>2969</u>	<u>X</u>																																											
<u>IA-14</u>	<u> </u>	<u>1551</u>	<u>1607</u>	<u>-29</u>	<u>-5</u>	<u>3987</u>	<u>4948</u>	<u>X</u>																																											
<u>SUA-02</u>	<u> </u>	<u>1549</u>	<u>1550</u>	<u>-30</u>	<u>-6</u>	<u>3954</u>	<u>3225</u>	<u>X</u>																																											
<u>SUA-02/ED</u>	<u>↓</u>	<u>1549</u>	<u>1552</u>	<u>-28</u>	<u>-3</u>	<u>3186</u>	<u>3928</u>	<u>X</u>																																											
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Stop																																																			
Special Instructions/QC Requirements & Comments: - <u>See Work Order - Site specific COCs</u>																																																			
Samples Shipped by: <u>(Signature)</u>				Date/Time: <u>8/23/12</u>				Samples Received by: <u>0940</u>																																											
Samples Relinquished by: <u>(Signature)</u>				Date/Time: <u>8/23/12 1700</u>				Received by: <u>Steph Bouchon TABUC 8/27/12</u>																																											
Relinquished by: <u>(Signature)</u>				Date/Time:				Received by:																																											

Lab Use Only

Shipper Name:

Opened by:

Condition:

**TestAmerica Burlington**

30 Community Drive  
 Suite 11  
 South Burlington, VT 05403  
 phone 802-660-1990 fax 802-660-1919

**Canister Samples Chain of Custody Record**

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

<b>Client Contact Information</b>		Project Manager: <u>Tom Zuchinski</u>		Samples Collected By: <u>ON</u>				1 of 1 COCs																																											
Company: <u>Burns &amp; McDonnell</u>		Phone: <u>814-688-1505</u>																																																	
Address: <u>425 S. Woods Mill Rd</u>		Email: <u>cmathenia@burnsmed.com</u>																																																	
City/State/Zip: <u>Chesterfield, Md 20717</u>		Site Contact: <u>Cheryl Mathenia</u>																																																	
Phone: <u>814-688-1500</u>		TA Contact: <u>Don Dawicki</u>																																																	
FAX: _____		Analysis Turnaround Time																																																	
Project Name: <u>PK1</u>		Standard (Specify)																																																	
Site: <u>PK1</u>		Rush (Specify) <u>5 DAY</u>																																																	
PO # <u>26682</u>																																																			
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	TO-15 LL	MA-APH	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																																
<u>JA-07</u>	<u>8/22/12</u>	<u>1425</u>	<u>1406</u>	<u>-28</u>	<u>0</u>	<u>47213</u>	<u>2854</u>	<u>X</u>																																											
<u>JA-15</u>	<u>8/22/12</u>	<u>1425</u>	<u>1405</u>	<u>-29</u>	<u>-5</u>	<u>4724</u>	<u>2854</u>	<u>X</u>																																											
<u>SUA-01</u>	<u>8/22/12</u>	<u>1429</u>	<u>1410</u>	<u>-30</u>	<u>-5</u>	<u>4725</u>	<u>3636</u>	<u>X</u>																																											
<u>JA-08</u>	<u>8/23/12</u>	<u>1559</u>	<u>1553</u>	<u>-29</u>	<u>-6</u>	<u>4182</u>	<u>2971</u>	<u>X</u>																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Temperature (Fahrenheit)</th> </tr> <tr> <td></td> <td>Interior</td> <td colspan="2">Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Stop</td> <td></td> <td colspan="2"></td> </tr> <tr> <th colspan="4">Pressure (inches of Hg)</th> </tr> <tr> <td></td> <td>Interior</td> <td colspan="2">Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td colspan="2"></td> </tr> <tr> <td>Stop</td> <td></td> <td colspan="2"></td> </tr> </table>																				Temperature (Fahrenheit)					Interior	Ambient		Start				Stop				Pressure (inches of Hg)					Interior	Ambient		Start				Stop			
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Samples Shipped by: _____				Date/Time: _____				Samples Received by: <u>8/27/12</u>																																											
Samples Relinquished by: _____				Date/Time: <u>8/24/12 1700</u>				Received by: <u>Steph Bucher TAGUE 0940</u>																																											
Relinquished by: _____				Date/Time: _____				Received by: _____																																											

From: (314) 682-1500  
Jeanette Colegrove,  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017

Origin ID: ZSVA



J12201207160325

Ship Date: 22AUG12  
ActWgt: 30.0 LB  
CAD: 5444229/NET3300

Delivery Address Bar Code



SHIP TO: (802) 660-1990  
**SAMPLE RECEIVING**  
TestAmerica  
30 COMMUNITY DR

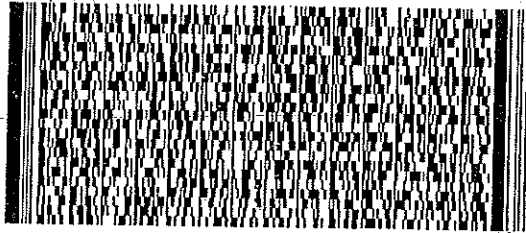
BILL SENDER

Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

SOUTH BURLINGTON, VT 05403

3 of 4

THU - 23 AUG A4



MPS 026  
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MPS# 7987 8218 3566  
MSI 0263

MON - 27 AUG A4  
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Page 1 of 4

From: (314) 682-1500  
Jeanette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017

Origin ID: ZSVA



J12201207160325

Ship Date: 22AUG12  
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Delivery Address Bar Code



SHIP TO: (802) 660-1990  
**SAMPLE RECEIVING**  
TestAmerica  
30 COMMUNITY DR

BILL SENDER

Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

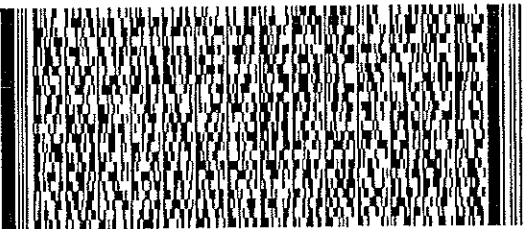
SOUTH BURLINGTON, VT 05403

FedEx  
TRK# 7987 8218 3485  
0201

MON - 27 AUG A4  
STANDARD OVERNIGHT

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US EPA ARCHIVE DOCUMENT

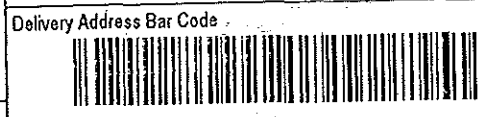


From: (314) 682-1500  
Jeannette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO 63017

Origin ID: ZSVA



Ship Date: 20AUG12  
ActWgt: 30.0 LB  
CAD: 5444229/NET3300



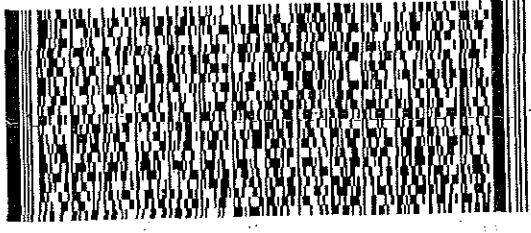
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**SAMPLE RECEIVING**  
TestAmerica  
30 COMMUNITY DR  
  
SOUTH BURLINGTON, VT 05403

Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

TUE - 21 AUG A4  
STANDARD OVERNIGHT

TRK# 7987 8198 2381  
0201

05403



FedEx  
TRK# 7987 8198 2381  
0201

FRI - 24 AUG A4  
STANDARD OVERNIGHT

**XH BTVA**

05403  
VT-US BTV

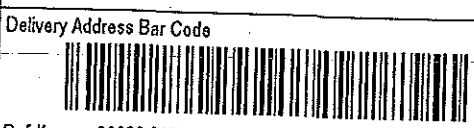


From: (314) 682-1500  
Jeannette Colegrove  
Burns & McDonnell  
425 South Woods Mill Road  
Suite 300  
Chesterfield, MO. 63017

Origin ID: ZSVA



Ship Date: 20AUG12  
ActWgt: 30.0 LB  
CAD: 5444229/NET3300

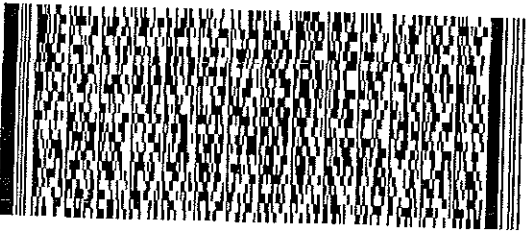


SHIP TO: (802) 660-1990 **BILL SENDER**  
**SAMPLE RECEIVING**  
TestAmerica  
30 COMMUNITY DR  
  
SOUTH BURLINGTON, VT 05403

Ref # 26682 8203 CMathenia  
Invoice #  
PO #  
Dept #

TUE - 21 AUG A4  
STANDARD OVERNIGHT

TRK# 7987 8213 5575  
0201



**X** FedEx  
TRK# 7987 8213 5575  
0201

MON - 27 AUG A4  
STANDARD OVERNIGHT

**TD BTVA**

05403  
VT-US BTV



US EPA ARCHIVE DOCUMENT



## Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 200-12430-1

**Login Number: 12430**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Poucher, Stephanie A**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO NUMBERS
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.	True	AMBIENT
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.	False	Refer to Job Narrative for details.
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	Refer to Job Narrative for details.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: Burns & McDonnell

Job Number: 200-12430-1

**Login Number: 12433**

**List Source: TestAmerica Burlington**

**List Number: 1**

**Creator: Poucher, Stephanie A**

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO NUMBERS
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	AMBIENT
Cooler Temperature is recorded.	True	
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.	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.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	