TECHNICAL MEMORANDUM

HUMAN HEALTH RISK ASSESSMENT FOR THE FEASIBILITY STUDY AND ASSOCIATED ACTIVITIES

PARK-EUCLID WQARF SITE TUCSON, ARIZONA

Prepared for

Park-Euclid Group

November 17, 2014

URS

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TABLE OF CONTENTS

Section 1 Introduction 1-1

1.1 Background 1-1
1.2 Rationale for Vapor Intrusion Risk Assessment 1-1

Section 2 Vapor Intrusion Risk Assessment 2-1

2.1 Soil Vapor Sampling Plan 2-1
2.2 Data Evaluation 2-1
2.2.1 Data Treatment 2-1
2.3 Selection of Chemicals of Potential Concern 2-2
2.3.1 Screening Level Analysis of Soil Gas Concentrations 2-2
2.3.2 Screening Level Analysis of Predicted Indoor Air Concentrations 2-2
2.4 Uncertainty in the Risk Assessment 2-4
2.4.1 Lack of Published Screening Levels 2-4
2.4.2 Potential Impact of the Multi-Phase Extraction System on Vapor Concentrations 2-4
2.5 Conclusions 2-5

Section 3 References 3-1

List of Tables

Table 1 Screening Level Analysis of Soil Gas Concentrations

Table 2 Summary of Results from Target VOC Analyses

Table 3 Comparison of Predicted Concentrations of PCE and TCE in Indoor Air to RSLs for Residential Indoor Air

List of Figures

Figure 1 Site Location

Figure 2 Soil Gas Sample Locations

List of Appendices

Appendix A Screening Level Analysis of Predicted Indoor Air Concentrations

Appendix A.1 Tetrachloroethene (PCE) Johnson & Ettinger Model

Appendix A.2 Trichloroethene (TCE) Johnson & Ettinger Model

Appendix B Laboratory Reports

List of Acronyms

AAC	Arizona Administrative Code
ADEQ	Arizona Department of Environmental Quality
ATSDR	Agency for Toxic Substances and Disease Registry
bgs	below ground surface
CalEPA	California Environmental Protection Agency
cm	centimeter
cm^3/cm^3	cubic centimeters per cubic centimeter
COC	contaminant of concern
COPC	chemical of potential concern
CR	cancer risk
CVOC	chlorinated volatile organic compound
EPC	exposure point concentration
FS	Feasibility Study
g/cm^3	grams per cubic centimeter
$g/cm\text{-}s^2$	grams per centimeter seconds squared
the Group	The Park – Euclid Group
HHRA	Human Health Risk Assessment
HI	hazard index
HQ	hazard quotient
J&E	Johnson & Ettinger
mg/m^3	milligrams per cubic meter
MPE	multi-phase extraction
MRL	maximum risk level
PCE	tetrachloroethene
QC	quality control
RL	reporting limit
RSL	Regional Screening Level
Site	Park-Euclid WQARF Site
TCE	trichloroethene
URS Corporation	URS
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
WQARF	Water Quality Assurance Revolving Fund

1.1 BACKGROUND

This Technical Memorandum describes the vapor intrusion human health risk assessment (HHRA) conducted in support of the Feasibility Study (FS) and associated activities for the Park-Euclid Water Quality Assurance Revolving Fund (WQARF) Site (the Site) in Tucson, Arizona (Figure 1). This memorandum was developed in accordance with the requirements of the Arizona Administrative Code (AAC) Title 18, Chapter 16, Section 407. This work is being performed by URS Corporation (URS) on behalf of the Park – Euclid Group (the Group) under an Agreement to Conduct Work between the Group and the Arizona Department of Environmental Quality (ADEQ) dated July 16, 2010.

The Site is located east of downtown Tucson, Arizona and is bounded approximately by 7th Street on the north, Cherry Avenue on the east, 14th Street on the south, and Tyndall Avenue on the west. The Site encompasses soil and groundwater that have been impacted by chlorinated volatile organic compounds (CVOCs). The contaminants of concern (COCs) related to the Site are the dry cleaning chemical tetrachloroethene (PCE) and its biological breakdown products trichloroethene (TCE), dichloroethene (1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichloroethene), and vinyl chloride. Additional site background, FS, and associated activities details are provided in the *Feasibility Study and Associated Activities Work Plan* (URS 2013).

1.2 RATIONALE FOR VAPOR INTRUSION RISK ASSESSMENT

An HHRA was performed to evaluate current or potential future threats to human health from volatile organic compounds (VOCs) in soil and groundwater at the Site under existing or anticipated future conditions. The HHRA is limited to evaluating potential exposure of residents and commercial/industrial workers to VOCs in indoor air via vapor intrusion from soil and groundwater. Soil gas concentrations were used with the United States Environmental Protection Agency's (USEPA's 2004) SG-ADV-Feb 04 Johnson and Ettinger (J&E) model to predict indoor air concentrations.

2.1 SOIL VAPOR SAMPLING PLAN

Two sources of data were used to evaluate the potential for vapor intrusion to indoor air and potential risk to human health:

- Soil vapor data collected from a depth of 5 feet below ground surface (bgs) at seven permanent soil vapor monitoring points VW-1 through VW-7 (Figure 2). Samples from these wells are currently being collected on an annual basis under the long-term monitoring program for the Site. The most recent sampling results from the permanent soil vapor monitoring points (collected on April 22, 2014 for sampling locations VW-01-05, VW-02-05, and VW-07-05 and on April 21, 2014 for sampling locations VW-03-05 to VW-06-05) were used in the HHRA.
- Soil vapor data collected a depth of 5 feet bgs at six temporary soil gas probes (Figure 2). Soil gas samples were collected from the VW-8 to VW-12 sampling locations (including a field duplicate at VW-11) on June 25, 2014. A soil gas sample was collected from the VW-13 sampling location on July 9, 2014.

2.2 DATA EVALUATION

The first step in the HHRA process is the identification of representative data for quantitative evaluation. Soil gas samples were collected for potential evaluation in the HHRA. Sample locations and analytical methods were specifically chosen to characterize the nature and extent of contamination, based on Site history, and to provide representative data for the purposes of HHRA. Analytical data were evaluated and organized into a form appropriate for baseline risk assessment. A primary purpose of the evaluation of data usability is to select analytical results that are of adequate quality for use in quantifying risks.

2.2.1 Data Treatment

Data determined to be acceptable for use in the HHRA were treated or modified according to the rules listed below. Treatment may relate to detected or non-detected analytes, data qualifiers, and duplicate sample results.

<u>Qualified Data</u>

Data were reviewed for usability in the HHRA. At times, problems are identified in laboratory analytical results. It is not uncommon to identify problems associated with the chemical concentration, the chemical identity, interference from other analytes, and/or matrix interferences (USEPA 1989). In such cases, analytes may be assigned a data qualifier.

Data flagged as estimated ("J" qualified), indicating that the analyte was positively identified but the quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control (QC) criteria, were treated the same as unqualified data.

<u>Non-Detect Data</u>

When an analyte was not detected in a sample, the value reported was the reporting limit (RL). All non-detect values were included in the data evaluation for the HHRA. Non-detect data were included in the risk analyses without adjustments (such as using 1/2 the RL as a surrogate).

Treatment of Duplicate Samples

A field duplicate sample, which is a QC sample collected to provide a measure of the contribution of field-related sources to overall variability, was collected at VW-11. In the two screening steps in the HHRA, the field duplicate results were treated the same as the other results.

2.3 SELECTION OF CHEMICALS OF POTENTIAL CONCERN

Chemicals of potential concern (COPCs) are defined as chemicals for which cancer risks and non-cancer hazard indices are calculated in a quantitative HHRA.

2.3.1 Screening Level Analysis of Soil Gas Concentrations

Maximum detected concentrations of VOCs in soil gas across the entire Site were multiplied by an attenuation factor of 0.01 as a conservative approach to account for the estimated decrease in concentrations of VOCs in soil gas versus the concentrations in indoor air. In this screening level analysis, the attenuated values were compared to USEPA Regional Screening Levels (RSLs) for residential indoor air protective to a hazard quotient (HQ) of 0.1 or a cancer risk (CR) of 1×10^{-6},whichever is more protective (USEPA 2014a) (Table 1). The target HQ of 0.1 is used in the initial screening level analysis to minimize the likelihood of eliminating chemicals as COPCs whose cumulative non-cancer hazard index (HI) may add up to more than 1.0. It is common to use conservative assumptions (such as an HQ of 0.1) in the derivation of initial screening levels, because the exceedance of a screening level does not indicate that the chemicals pose an unacceptable risk. Rather, the exceedance of a screening level indicates that further evaluation of the chemical is necessary. Table 2 provides a summary of results from all VOC analyses used in the soil gas screening level risk assessment. Attenuated concentrations of TCE and PCE exceeded their respective RSLs for residential indoor air; therefore, TCE and PCE were evaluated further in site-specific screening described in Section 2.3.2. cis-1,2-Dichloroethene was detected, but was not evaluated further in the HHRA because the USEPA RSL tables do not have RSLs for indoor air for cis-1,2-dichloroethene. Neither trans-1,2-dichloroethene or vinyl chloride were detected at any of the sampling locations, and therefore, these compounds were also not evaluated further in the site-specific screening.

2.3.2 Screening Level Analysis of Predicted Indoor Air Concentrations

Maximum site-wide detected concentrations of PCE and TCE in soil gas that were selected for further evaluation (see Section 2.3.1) were used with the J&E model to predict maximum concentrations of VOCs in residential indoor air across the entire Site. In this analysis, less conservative (more realistic) site-specific values are used to calculate CR and HQ. Because this second level screening was based on site-specific conditions and because only two compounds were carried forward to this secondary screening, predicted indoor air concentrations were compared to USEPA (2014b) RSLs for residential indoor air protective to a CR of 1×10^{-6} and more realistic HQ of 1.

Modeling of Soil Gas Transport to Indoor Air

The following site-specific information was used in the J&E model for the residential scenario (Appendix A):

- Maximum detected site-wide soil gas concentrations for PCE and TCE of 6.375 and 0.0699 milligrams per cubic meter (mg/m^3), respectively.
- Soil gas sampling depth below grade of 5 feet.
- Average soil temperature of 75 degrees Fahrenheit (°F) (based on the average soil temperature at 20 inches bgs during the month of June).
- Site-specific soil type – Clay loam for sampling location VW-07 (the sampling location with the maximum detected site-wide soil gas concentrations for PCE and TCE).

The following default values were used for the residential scenario:

- Depth below grade to bottom of enclosed space floor: 15 centimeters (cm), based on USEPA (2004) default value for slab-on-grade buildings.
- Based on soil type of clay loam: dry bulk density of 1.48 grams per cubic centimeter (g/cm^3).
- Based on soil type of clay loam: total porosity of 0.442 (unitless).
- Based on soil type of clay loam: water-filled porosity of 0.168 cubic centimeters per cubic centimeter (cm^3/cm^3).
- Enclosed space floor thickness: 10 cm, based on USEPA (2004) default value.
- Soil-building pressure differential: 40 grams per centimeter seconds squared ($g/cm\text{-}s^2$), based on USEPA (2004) default value.
- Enclosed space floor length: 1,000 cm, based on USEPA (2004) default value.
- Enclosed space floor width: 1,000 cm, based on USEPA (2004) default value.
- Enclosed space height: 366 cm, based on USEPA (2004) default value for residences.
- Floor-wall seam crack width: 0.1 cm, based on USEPA (2004) default value.
- Indoor air exchange rate: 0.25 exchange per hour, based on USEPA (2004) default value for residences.
- Average vapor flow rate into building: 5 liters per minute, based on USEPA (2004) default value.

The J&E model predicted that, based on a maximum detected site-wide concentration of PCE in soil gas of 6.375 mg/m^3, the concentration of PCE in indoor air would be 0.00656 mg/m^3 (Appendix A). This indoor air concentration is less than the USEPA RSL for PCE in residential indoor air of 0.011 mg/m^3. This residential RSL for PCE in indoor air of 0.011 mg/m^3 is protective to an HQ of 1 and a CR of 1×10^{-6}. The predicted concentration of PCE in indoor air of 0.00656 mg/m^3 is also well below the USEPA RSL for PCE in industrial indoor air of 0.047 mg/m^3. The J&E model predicted that, based on a maximum detected site-wide concentration of TCE in soil gas of 0.0699 mg/m^3, the concentration of TCE in indoor air would be 0.000077 mg/m^3 (Appendix A). This indoor air concentration is well below the USEPA RSL for TCE in residential indoor air of 0.048 mg/m^3. This RSL for TCE in indoor air of 0.048 mg/m^3 is protective to an HQ of 1 and a CR of 1×10^{-6}. The predicted concentration of TCE in indoor air

of 0.000077 mg/m^3 is also well below the USEPA RSL for TCE in industrial indoor air of 0.003 mg/m^3. Therefore, PCE and TCE were not selected as COPCs to be evaluated further in the HHRA. trans-1,2-Dichloroethene and vinyl chloride were not selected as COPCs, because those VOCs were not detected in any soil gas samples collected at the Site. cis-1,2-Dichloroethene was detected, but was not selected as a COPC because the USEPA RSL tables do not have RSLs for indoor air for cis-1,2-dichloroethene. Therefore, no COPCs were selected at the Site based on the screening level analysis of soil gas concentrations and the screening level analysis of predicted indoor air concentrations. Because no COPCs were selected, it was not necessary to perform quantitative estimates of CR and HI for residents and commercial/industrial workers exposed to indoor air impacted by VOCs in soil and groundwater at the Site.

2.4 UNCERTAINTY IN THE RISK ASSESSMENT

The most significant uncertainties associated with the HHRA are related to the lack of published screening levels for compounds detected in samples from soil gas samples and potential rebound in vapor concentrations following shutdown of the multi-phase extraction (MPE) system at the Site. These topics are addressed below.

2.4.1 Lack of Published Screening Levels

One source of uncertainty in the HHRA is that detected levels of cis-1,2-dichloroethene were not evaluated in the screening level analysis of soil gas concentrations or the screening level analysis of predicted indoor air concentrations. Toxicity values for inhalation of cis-1,2-dichloroethene are not available from USEPA sources (USEPA 1997; 2014b,c,d) or from other traditional sources of toxicity values such as California Environmental Protection Agency (CalEPA 2014) and Agency for Toxic Substances and Disease Registry (ATDSR 2014). An intermediate (subchronic duration) minimum risk level (MRL) of 7.9 mg/m^3 is available for trans-1,2-dichloroethene (ATSDR 2014). The maximum site-wide attenuated soil gas concentration for cis-1,2-dichloroethene of 0.00103 mg/m^3 is more than 7,000-times lower than the ATSDR MRL for trans-1,2-dichloroethene of 7.9 mg/m^3.

2.4.2 Potential Impact of the Multi-Phase Extraction System on Vapor Concentrations

The Group has operated a MPE system as an Early Response Action for removal of contaminated vapors, water, and petroleum product containing dissolved VOCs from the surface of the Perched Aquifer at the Site for several years (URS 2010). The primary goal of this system was to remove as much contaminant mass from the Perched Aquifer as practical, and because most of the VOC mass in the Perched Aquifer is believed to occur in the dissolved phase in the product, the MPE system was optimized to remove as much product as practical. However, this system had the added benefit of also extracting contaminated vapors from the upper vadose zone near its interface with the Perched Aquifer, and therefore, concentrations of VOCs have also declined significantly in the upper vadose zone as a result of MPE. This system was shut down on April 11, 2014 pending further evaluation in the FS as a potential component of the final remedy for the Perched Aquifer as PCE concentrations in the Perched Aquifer have decreased significantly.

When a system extracting VOC vapors from the subsurface is shut down, some rebound in vapor phase VOC concentrations is normally expected, as remaining sorbed phase VOCs equilibrate with the surrounding vapors in the soil matrix. However, because extraction at the MPE system

targets remediation of the Perched Aquifer and upper vadose zone at a depth of about 90 feet bgs, the least impact from MPE (and therefore the least rebound) would be expected at the 5-foot depth where samples were collected for the HHRA. Also, if occurring, concentration rebound from sorbed phase VOCs in the vadose zone would be expected to be at a maximum shortly after shutdown of the MPE system, and therefore, the results from samples collected from the shallow vapor wells about 10 days after shutdown of MPE would not be expected to show as significant an impact as they would if the samples were collected during operation or shortly after system shutdown.

Samples from the temporary vapor wells adjacent to commercial and residential offsite properties (VW-08 through VW-13, Figure 2) used in the risk assessment were collected in late June 2014, over 2 months after shutdown of the MPE system on April 11, 2014. Further, these locations are far enough away from the MPE extraction wells to be outside the anticipated zone of influence of vapor extraction from the MPE system, and therefore, significant rebound is not expected in these wells following shutdown of the MPE system. No additional evaluation of the impact of MPE shutdown on vapor concentrations at these locations with respect to this HHRA is recommended.

Because of the proximity of the permanent vapor wells (VW-01 through VW-07, Figure 2) to the MPE extraction wells and the shorter time period between the MPE system shutdown and collection of the samples used in this HHRA, a contingency will be included in the FS to periodically review the results from long term monitoring of the permanent vapor wells beneath the source area. Should J&E modeling based on these data predict that commercial RSLs beneath the source area would be exceeded (HQ > 1; CR > 1 x 10^{-6}), additional assessment of vapor intrusion risk may be recommended.

2.5 CONCLUSIONS

Soil gas collected at 13 locations (with an additional field duplicate collected at VW-11) was analyzed for PCE, TCE, cis-1,2-dichlorethene, trans-1,2-dichloroethene, and vinyl chloride. In the first step of selection of COPCs (screening level analysis of soil gas concentrations), maximum detected concentrations of VOCs in soil gas across the entire Site were multiplied by an attenuation factor of 0.01 for comparison to USEPA RSLs for residential indoor air protective to an HQ of 0.1 and a CR of 1 x 10^{-6} (USEPA 2014a). trans-1,2-Dichloroethene and vinyl chloride were not detected at any sampling locations at the Site, and therefore, were not evaluated further in the HHRA. cis-1,2-Dichloroethene was detected in 50% of the samples. However, there are no toxicity values or screening levels for inhalation of cis-1,2-dichloroethene in air. Therefore, cis-1,2-dichloroethene could not be evaluated in the screening level analysis of soil gas concentrations.

Attenuated concentrations of TCE and PCE exceeded their respective RSLs for indoor air protective to an HQ of 0.1 and a CR of 1 x 10^{-6} (USEPA 2014a); therefore, PCE and TCE were evaluated further in the HHRA. In the next step of the selection of COPCs (screening level analysis of predicted indoor air concentrations), indoor air concentrations of PCE and TCE were predicted using the maximum detected site-wide concentrations with the J&E model. The predicted indoor air concentrations of PCE and TCE were each less than USEPA RSLs for residential indoor air protective to an HQ of 1 and a CR of 1 x 10^{-6} (USEPA 2014b). Therefore, no COPCs were selected at the Site based on the screening level analysis of soil gas concentrations and the screening level analysis of predicted indoor air concentrations. Because

no COPCs were selected, it was not necessary to perform quantitative estimates of CR and HI for residents and commercial/industrial workers exposed to indoor air impacted by VOCs in soil and groundwater at the Site.

Based on the soil gas sampling results and HHRA performed at the Site, potential exposure of residents or commercial/industrial workers to trans-1,2-dichloroethene (not detected), vinyl chloride (not detected), TCE (predicted indoor air concentration less than residential RSL), and PCE (predicted indoor air concentration less than residential RSL) would not pose an unacceptable threat to human health. There is uncertainty associated with potential impacts from human exposure to cis-1,2-dichloroethene in indoor air impacted by groundwater and soil at the Site.

Agency for Toxic Substances and Disease Registry (ATSDR). 2014. Minimum Risk Levels (MRLs) for Hazardous Substances. December. Accessed online at http://www.atsdr.cdc.gov/mrls/index.asp.

California Environmental Protection Agency (CalEPA). 2014. Toxicity Criteria Database, Office of Environmental Health Hazard Assessment. Accessed online at http://www.oehha.ca.gov/risk/ChemicalDB/index.asp.

URS Corporation (URS). 2010. Work Plan, Multi-Phase Extraction System Early Response Action, Park-Euclid WQARF Site, Tucson, Arizona. Prepared for the Park-Euclid RP Group. October 15.

URS. 2013. Feasibility Study and Associated Activities Work Plan, Park-Euclid WQARF Site, Tucson, Arizona. Prepared for Park-Euclid Responsible Parties. June 21.

U.S. Environmental Protection Agency (USEPA). 1989. Risk Assessment Guidance for Superfund: Volume I - Human Health Evaluation Manual, Part A. Interim Final. Office of Emergency and Remedial Response, Washington, D.C. December.

USEPA. 1997. Health Effects Assessment Summary Tables. FY 1997 Update. EPA-540-R-97-036. July.

USEPA. 2004 Johnson and Ettinger (1991) Model for Subsurface Vapor Intrusion into Buildings. Version SG-ADV-04. Accessed online at http://www.epa.gov/oswer/riskassessment/airmodel/johnson_ettinger.htm.

USEPA. 2014a. USEPA Master Regional Screening Level (RSL) Table. May. (TR=1E-6, HQ=0.1).

USEPA. 2014b. USEPA Master Regional Screening Level (RSL) Summary Table (TR=1E-6, HQ=1). May.

USEPA. 2014c. Integrated Risk Information System (IRIS). Accessed online at http://www.epa.gov/iris.

USEPA. 2014d. Provisional Peer Reviewed Toxicity Values for Superfund (PPRTV). PPRTV Assessments Electronic Library. Accessed online at http://hhpprtv.ornl.gov/index.html.

Table 1
Screening Level Analysis of Soil Gas Concentrations

Analyte	CAS Number	Number of Samples	Number of Detections	Frequency of Detection	Maximum Detected Concentration (mg/m^3)	Maximum Detected Concentration with Attenuation Factor of 0.01 Applied (mg/m^3)[1]	Residential Indoor Air RSL (USEPA 2014) (mg/m^3)[2]	Basis for RSL	Maximum Detected Concentration > RSL?
cis-1,2-Dichloroethene	156-59-2	14	7	50%	0.103	0.00103	NV	-	NV
Tetrachloroethene	127-18-4	14	14	100%	6.38	0.0638	0.00420	HQ of 0.1	**Yes**
trans-1,2-Dichloroethene	156-60-5	14	0	0%	ND	ND	NV	-	ND
Trichloroethene	79-01-6	14	6	43%	0.0699	0.000699	0.000210	HQ of 0.1	**Yes**
Vinyl chloride	75-01-4	14	0	0%	ND	ND	0.000170	CR of 1×10^{-6}	ND

[1] An attentuation factor of 0.01 is a conservative approach to account for the potential decrease in concentrations of VOCs in soil gas versus the concentrations in indoor air.
[2] RSLs are based on a target HQ of 0.1 for non-carcinogens or a target CR of 1×10^{-6}. For chemicals that had RSLs both for an HQ of 0.1 and a CR of 1×10^{-6}, the lower of the two resulting RSLs was selected.

Notes:
Includes field duplicate for sample location VW-11.

Acronyms:
CR - cancer risk
HQ - hazard quotient
mg/m^3 - milligrams per cubic meter
ND - not detected (at the site)
NV - no value (no Residential Indoor Air RSL for this analyte)
RSL - Regional Screening Level
USEPA - U.S. Environmental Protection Agency
VOC - volatile organic compound

References:
U.S. Environmental Protection Agency (USEPA). 2014. USEPA Master Regional Screening Level (RSL) Table. May.

Table 2
Summary of Results from Target VOC Analyses
Vapor Intrusion Risk Assessment
Park - Euclid WQARF Site, Tucson, Arizona

Location ID	Type	Sample Date	c-1,2-DCE V mg/m3	PCE V mg/m3	t-1,2-DCE V mg/m3	TCE V mg/m3	VC V mg/m3
		Analyte Fraction Units					
VW-01-05	SA	04/22/2014	<0.0068	0.88	<0.0067	<0.0091	<0.0043
VW-02-05	SA	04/22/2014	<0.0016	0.0095	<0.0016	<0.0021	<0.0010
VW-03-05	SA	04/21/2014	<0.0016	0.022	<0.0016	<0.0021	<0.0010
VW-04-05	SA	04/21/2014	<0.0016	0.38	<0.0016	<0.0021	<0.0010
VW-05-05	SA	04/21/2014	<0.0016	0.18	<0.0016	<0.0021	<0.0010
VW-06-05	SA	04/21/2014	<0.0016	0.0059	<0.0016	<0.0021	<0.0010
VW-07-05	SA	04/22/2014	0.10	6.4	<0.044	0.070	<0.028
VW-08	SA	06/25/2014	0.0034	0.26	<0.0016	0.0038	<0.0010
VW-09	SA	06/25/2014	0.0035	0.31	<0.0016	0.0040	<0.0010
VW-10	SA	06/25/2014	<0.018	0.39	<0.017	<0.024	<0.011
VW-11	SA	06/25/2014	0.0020	0.15	<0.0016	0.0023	<0.0010
VW-11	FD	06/25/2014	0.0026	0.18	<0.0016	0.0030	<0.0010
VW-12	SA	06/25/2014	0.0017	0.13	<0.0016	<0.0021	<0.0010
VW-13	SA	07/09/2014	0.0068	0.40	<0.0016	0.0059	<0.0010

SA - Field Original, FD - Field Duplicate
V - Vapor, mg/m3 - milligrams per cubic meter
< 0.0016 - Not detected at or above the reporting limit.

Table 3
Comparison of Predicted Concentrations of PCE and TCE in Indoor Air to RSLs for Residential Indoor Air

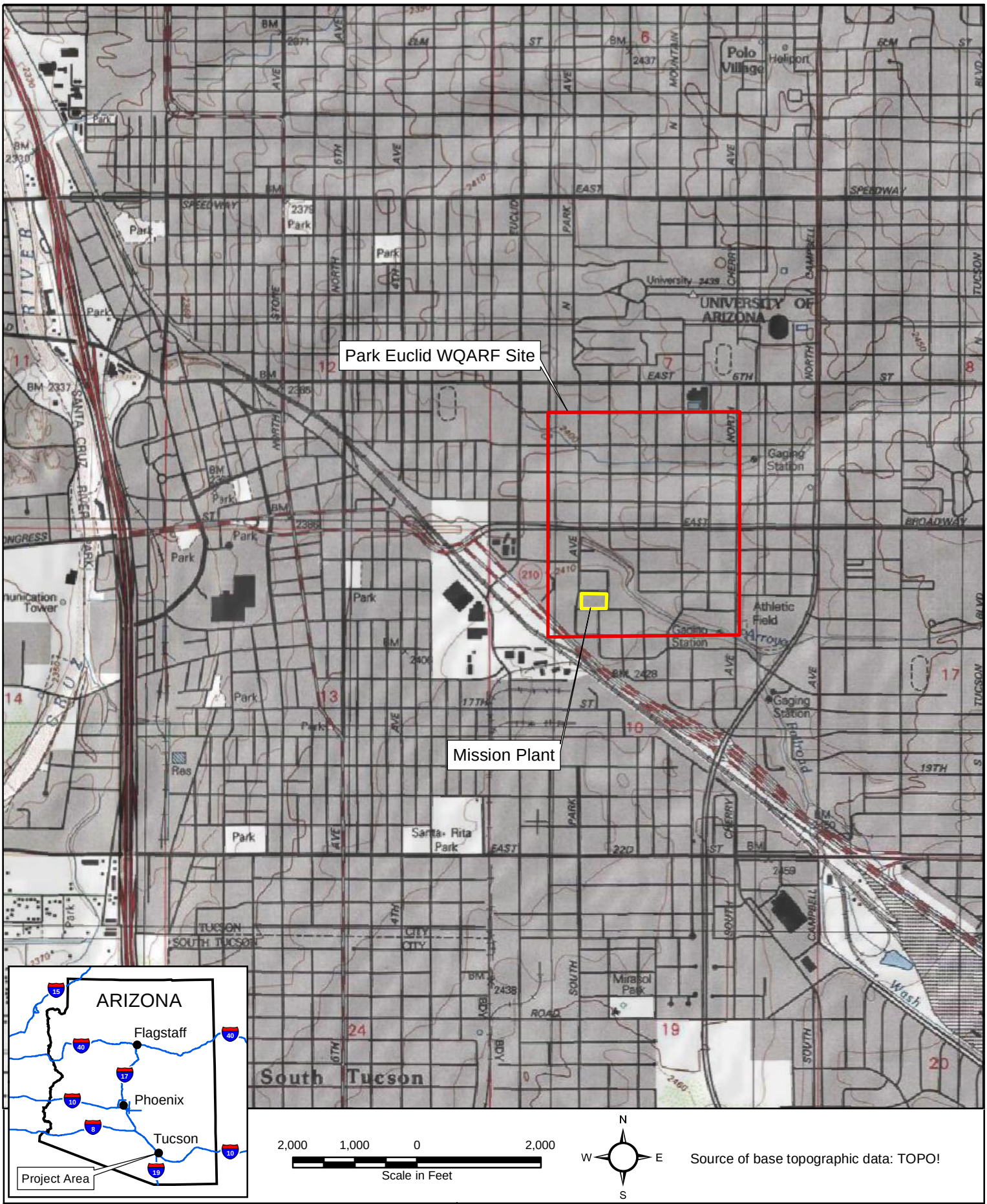
Analyte	CAS Number	Maximum Detected Concentration in Soil Gas (mg/m^3)	Predicted Concentration in Indoor Air (mg/m^3)	Residential Indoor Air RSL (USEPA 2014) (mg/m^3)[1]	Basis for Residential Indoor Air RSL?	Predicted Indoor Air Concentration > Residential Indoor Air RSL?
Tetrachloroethene	127-18-4	6.38	0.00656	0.0110	CR = 1×10^{-6}	No
Trichloroethene	79-01-6	0.0699	0.000077	0.00048	CR = 1×10^{-6}	No

[1] RSLs are based on a target HQ of 1 for non-carcinogens or a target CR of 1×10^{-6}. For chemicals that had RSLs both for an HQ of 1 and a CR of 1×10^{-6}, the lower of the two resulting RSLs was selected.

Notes:
Includes field duplicate for sample location VW-11.

Acronyms:
CR - cancer risk
mg/m^3 - milligrams per cubic meter
PCE - tetrachloroethene
RSL - Regional Screening Level
TCE - trichloroethene
USEPA - U.S. Environmental Protection Agency

References:
U.S. Environmental Protection Agency (USEPA). 2014. USEPA Master Regional Screening Level (RSL) Table. May.



Source of base topographic data: TOPO!

URS

Project Name: Park-Euclid WQARF Site

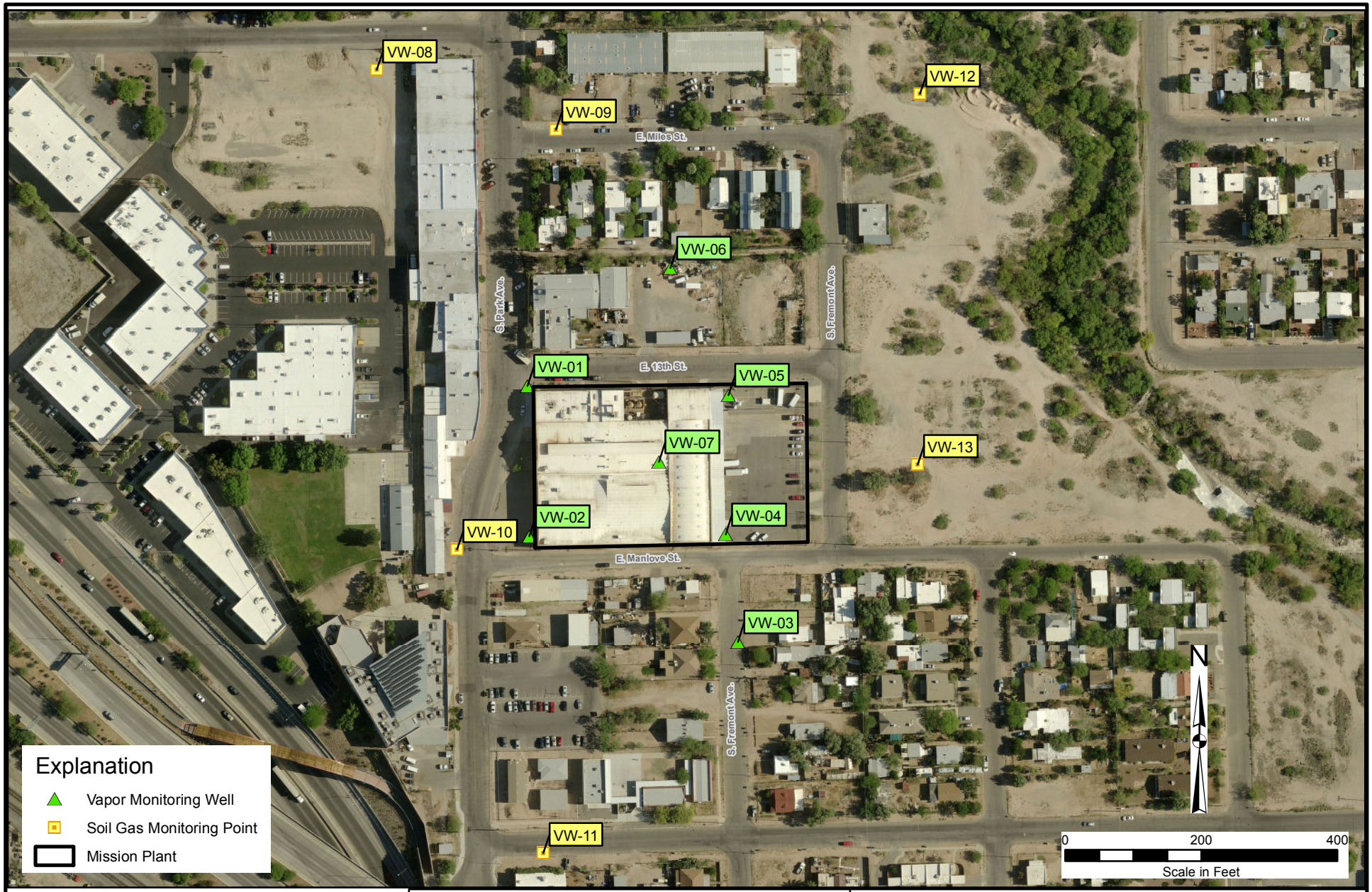
Job No: 22241866

Date: January 2013

SITE LOCATION
PARK-EUCLID WQARF SITE
301 SOUTH PARK AVENUE
TUCSON, ARIZONA

Y:/GIS/Projects/Mission/Park_Euclid/Proj13/FS_Final/Fig1_SiteLocation.mxd

Figure 1



Aerial Photography Source: Pima County, Arizona GIS 2010

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Project Name: Park-Euclid WQARF Site

Job No: 22241866

Date: September 2014

SOIL GAS SAMPLE LOCATIONS

PARK-EUCLID WQARF SITE
301 SOUTH PARK AVENUE
TUCSON, ARIZONA

P_E/Projects14/HHRA_Tech_Memo/Fig2_Soil_Gas_Locs.mxd

Figure 2

Appendix A

Screening Level Analysis of Predicted Indoor Air Concentrations

Appendix A
Screening Level Analysis of Predicted Indoor Air Concentrations

Appendix A.1

Tetrachloroethene (PCE) Johnson & Ettinger Model

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
127184	6.375E+03			Tetrachloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
			Totals must add up to value of Ls (cell F24)					
15	152.4	23.89	152.4	0	0	CL		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
CL	1.48	0.442	0.168								

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	0.25	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.20E-02	8.20E-06	1.84E-02	25	8,288	394.40	620.20	165.83	5.9E-06	6.0E-01

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9.46E+08	137.4	0.274	ERROR	ERROR	0.245	1.29E-09	0.865	1.12E-09	4,000	6.38E+03	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	3.77E-04	15	9,411	1.73E-02	7.10E-01	1.80E-04	4.95E-03	0.00E+00	0.00E+00	4.95E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	**Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)**	Unit risk factor, URF $(\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
15	6.38E+03	0.10	8.33E+01	4.95E-03	4.00E+02	8.91E+182	1.03E-03	**6.56E+00**	5.9E-06	6.0E-01

END

Appendix A.2

Trichloroethene (TCE) Johnson & Ettinger Model

SG-ADV
Version 3.1; 02/04

Reset to Defaults

Soil Gas Concentration Data

ENTER Chemical CAS No. (numbers only, no dashes)	ENTER Soil gas conc., C_g ($\mu g/m^3$)	OR	ENTER Soil gas conc., C_g (ppmv)	Chemical
79016	6.99E+01			Trichloroethylene

MORE ↓

ENTER Depth below grade to bottom of enclosed space floor, L_F (cm)	ENTER Soil gas sampling depth below grade, L_s (cm)	ENTER Average soil temperature, T_S (°C)	ENTER Totals must add up to value of Ls (cell F24) Thickness of soil stratum A, h_A (cm)	ENTER Thickness of soil stratum B, (Enter value or 0) h_B (cm)	ENTER Thickness of soil stratum C, (Enter value or 0) h_C (cm)	ENTER Soil stratum A SCS soil type (used to estimate soil vapor permeability)	OR	ENTER User-defined stratum A soil vapor permeability, k_v (cm^2)
15	152.4	23.89	152.4			CL		

MORE ↓

ENTER Stratum A SCS soil type (Lookup Soil Parameters)	ENTER Stratum A soil dry bulk density, ρ_b^A (g/cm^3)	ENTER Stratum A soil total porosity, n^A (unitless)	ENTER Stratum A soil water-filled porosity, θ_w^A (cm^3/cm^3)	ENTER Stratum B SCS soil type (Lookup Soil Parameters)	ENTER Stratum B soil dry bulk density, ρ_b^B (g/cm^3)	ENTER Stratum B soil total porosity, n^B (unitless)	ENTER Stratum B soil water-filled porosity, θ_w^B (cm^3/cm^3)	ENTER Stratum C SCS soil type (Lookup Soil Parameters)	ENTER Stratum C soil dry bulk density, ρ_b^C (g/cm^3)	ENTER Stratum C soil total porosity, n^C (unitless)	ENTER Stratum C soil water-filled porosity, θ_w^C (cm^3/cm^3)
CL	1.48	0.442	0.168								

MORE ↓

ENTER Enclosed space floor thickness, L_{crack} (cm)	ENTER Soil-bldg. pressure differential, ΔP ($g/cm\text{-}s^2$)	ENTER Enclosed space floor length, L_B (cm)	ENTER Enclosed space floor width, W_B (cm)	ENTER Enclosed space height, H_B (cm)	ENTER Floor-wall seam crack width, w (cm)	ENTER Indoor air exchange rate, ER (1/h)	ENTER Average vapor flow rate into bldg. OR Leave blank to calculate Q_{soil} (L/m)
10	40	1000	1000	366	0.1	0.25	5

ENTER Averaging time for carcinogens, AT_C (yrs)	ENTER Averaging time for noncarcinogens, AT_{NC} (yrs)	ENTER Exposure duration, ED (yrs)	ENTER Exposure frequency, EF (days/yr)
70	30	30	350

END

CHEMICAL PROPERTIES SHEET

Diffusivity in air, D_a (cm^2/s)	Diffusivity in water, D_w (cm^2/s)	Henry's law constant at reference temperature, H (atm-m^3/mol)	Henry's law constant reference temperature, T_R (^oC)	Enthalpy of vaporization at the normal boiling point, $\Delta H_{v,b}$ (cal/mol)	Normal boiling point, T_B (^oK)	Critical temperature, T_C (^oK)	Molecular weight, MW (g/mol)	Unit risk factor, URF ($\mu g/m^3)^{-1}$	Reference conc., RfC (mg/m^3)
7.90E-02	9.10E-06	1.03E-02	25	7,505	360.36	544.20	131.39	1.1E-04	4.0E-02

INTERMEDIATE CALCULATIONS SHEET

Exposure duration, τ (sec)	Source-building separation, L_T (cm)	Stratum A soil air-filled porosity, θ_a^A (cm^3/cm^3)	Stratum B soil air-filled porosity, θ_a^B (cm^3/cm^3)	Stratum C soil air-filled porosity, θ_a^C (cm^3/cm^3)	Stratum A effective total fluid saturation, S_{te} (cm^3/cm^3)	Stratum A soil intrinsic permeability, k_i (cm^2)	Stratum A soil relative air permeability, k_{rg} (cm^2)	Stratum A soil effective vapor permeability, k_v (cm^2)	Floor-wall seam perimeter, X_{crack} (cm)	Soil gas conc. ($\mu g/m^3$)	Bldg. ventilation rate, $Q_{building}$ (cm^3/s)
9.46E+08	137.4	0.274	ERROR	ERROR	0.245	1.29E-09	0.865	1.12E-09	4,000	6.99E+01	2.54E+04

Area of enclosed space below grade, A_B (cm^2)	Crack-to-total area ratio, η (unitless)	Crack depth below grade, Z_{crack} (cm)	Enthalpy of vaporization at ave. soil temperature, $\Delta H_{v,TS}$ (cal/mol)	Henry's law constant at ave. soil temperature, H_{TS} (atm-m^3/mol)	Henry's law constant at ave. soil temperature, H'_{TS} (unitless)	Vapor viscosity at ave. soil temperature, μ_{TS} (g/cm-s)	Stratum A effective diffusion coefficient, D^{eff}_A (cm^2/s)	Stratum B effective diffusion coefficient, D^{eff}_B (cm^2/s)	Stratum C effective diffusion coefficient, D^{eff}_C (cm^2/s)	Total overall effective diffusion coefficient, D^{eff}_T (cm^2/s)	Diffusion path length, L_d (cm)
1.06E+06	3.77E-04	15	8,384	9.74E-03	4.00E-01	1.80E-04	5.43E-03	0.00E+00	0.00E+00	5.43E-03	137.4

Convection path length, L_p (cm)	Source vapor conc., C_{source} ($\mu g/m^3$)	Crack radius, r_{crack} (cm)	Average vapor flow rate into bldg., Q_{soil} (cm^3/s)	Crack effective diffusion coefficient, D^{crack} (cm^2/s)	Area of crack, A_{crack} (cm^2)	Exponent of equivalent foundation Peclet number, $\exp(Pe^f)$ (unitless)	Infinite source indoor attenuation coefficient, α (unitless)	**Infinite source bldg. conc., $C_{building}$ ($\mu g/m^3$)**	Unit risk factor, URF ($(\mu g/m^3)^{-1}$)	Reference conc., RfC (mg/m^3)
15	6.99E+01	0.10	8.33E+01	5.43E-03	4.00E+02	5.43E+166	1.10E-03	**7.66E-02**	1.1E-04	4.0E-02

END

Appendix B
Laboratory Reports

Appendix B
Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-7188-1
Client Project/Site: Park-Euclid WQARF Site

For:
URS Corporation
8181 East Tufts Ave.
Denver, Colorado 80237

Attn: Mr. Robert Boudra

Authorized for release by:
5/14/2014 1:07:08 PM

Laura Turpen, Project Manager I
(916)373-5600
laura.turpen@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 13
Surrogate Summary 33
QC Sample Results 35
QC Association Summary 41
Lab Chronicle 43
Certification Summary 50
Method Summary 51
Sample Summary 52
Chain of Custody 53
Field Data Sheets 58
Receipt Checklists 98
Clean Canister Certification 99
    Pre-Ship Certification 99
    Clean Canister Data 105

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
E6	Concentration estimated. Internal standard recoveries did not meet method acceptance criteria.

Glossary

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

Job ID: 320-7188-1

Laboratory: TestAmerica Sacramento

Narrative

Receipt
The samples were received on 4/25/2014 9:10 AM; the samples arrived in good condition.

Except:

The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): .
VW-06-85-VPT-042114 can is 34001709, coc lists 34001790.
VML-02-190-VPT-042314 is labeled VML-02-85-VPT-042314.
VML-02-130-VPT-042414 is labeled VML-02-130-VPT-042314.

The client confirmed the sample IDs as VML-02-190-VPT-042314 and VML-02-130-VPT-042414and the canitser ID as 34001709.

Air - GC/MS VOA
Method(s) TO-15: Surrogate recovery for the following sample was outside control limits: VW-01-85-VPT-042214 (320-7188-21). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) TO-15: The following sample was diluted due to the abundance of non-target analytes: VW-01-55-VPT-042214 (320-7188-20). Elevated reporting limits (RLs) are provided.

Method(s) TO-15: Surrogate recovery for the following sample was outside control limits: VW-01-85-VDT-042214 (320-7188-22). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Method(s) TO-15: Internal standard (ISTD) response for the following sample was outside control limits: VW-01-85-VDT-042214 (320-7188-22). The sample was re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported.

No other analytical or quality issues were noted.

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

Detection Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-03-05-VPT-042114 — Lab Sample ID: 320-7188-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.2		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	22		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-03-30-VPT-042114 — Lab Sample ID: 320-7188-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.3		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	9.1		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-03-55-VPT-042114 — Lab Sample ID: 320-7188-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.7		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	19		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-03-85-VPT-042114 — Lab Sample ID: 320-7188-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.6		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	11		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-04-05-VPT-042114 — Lab Sample ID: 320-7188-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	56		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	380		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-04-30-VPT-042114 — Lab Sample ID: 320-7188-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		2.4	ppb v/v	5.98		TO-15	Total/NA
Tetrachloroethene	900		16	ug/m3	5.98		TO-15	Total/NA

Client Sample ID: VW-04-55-VPT-042114 — Lab Sample ID: 320-7188-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	120		2.0	ppb v/v	4.93		TO-15	Total/NA
Tetrachloroethene	820		13	ug/m3	4.93		TO-15	Total/NA

Client Sample ID: VW-04-85-VPT-042114 — Lab Sample ID: 320-7188-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: VW-04-85-VPT-042114 (Continued) — Lab Sample ID: 320-7188-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	300		3.3	ppb v/v	8.31		TO-15	Total/NA
Tetrachloroethene	90		3.3	ppb v/v	8.31		TO-15	Total/NA
Trichloroethene	24		3.3	ppb v/v	8.31		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1200		13	ug/m3	8.31		TO-15	Total/NA
Tetrachloroethene	610		23	ug/m3	8.31		TO-15	Total/NA
Trichloroethene	130		18	ug/m3	8.31		TO-15	Total/NA

Client Sample ID: VW-04-85-VDT-042114 — Lab Sample ID: 320-7188-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		2.3	ppb v/v	5.73		TO-15	Total/NA
Tetrachloroethene	130		2.3	ppb v/v	5.73		TO-15	Total/NA
Trichloroethene	19		2.3	ppb v/v	5.73		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	680		9.1	ug/m3	5.73		TO-15	Total/NA
Tetrachloroethene	860		16	ug/m3	5.73		TO-15	Total/NA
Trichloroethene	100		12	ug/m3	5.73		TO-15	Total/NA

Client Sample ID: VW-05-05-VPT-042114 — Lab Sample ID: 320-7188-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	27		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	190		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-05-30-VPT-042114 — Lab Sample ID: 320-7188-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	850		12	ppb v/v	29.3		TO-15	Total/NA
Trichloroethene	12		12	ppb v/v	29.3		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5700		79	ug/m3	29.3		TO-15	Total/NA
Trichloroethene	62		63	ug/m3	29.3		TO-15	Total/NA

Client Sample ID: VW-05-55-VPT-042114 — Lab Sample ID: 320-7188-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	44		1.7	ppb v/v	4.16		TO-15	Total/NA
Tetrachloroethene	150		1.7	ppb v/v	4.16		TO-15	Total/NA
Trichloroethene	37		1.7	ppb v/v	4.16		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		6.6	ug/m3	4.16		TO-15	Total/NA
Tetrachloroethene	1000		11	ug/m3	4.16		TO-15	Total/NA
Trichloroethene	200		8.9	ug/m3	4.16		TO-15	Total/NA

Client Sample ID: VW-05-85-VPT-042114 — Lab Sample ID: 320-7188-13

This Detection Summary does not include radiochemical test results.

Client Sample ID: VW-05-85-VPT-042114 (Continued) — Lab Sample ID: 320-7188-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1800		29	ppb v/v	73.4		TO-15	Total/NA
Tetrachloroethene	550		29	ppb v/v	73.4		TO-15	Total/NA
Trichloroethene	980		29	ppb v/v	73.4		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7100		120	ug/m3	73.4		TO-15	Total/NA
Tetrachloroethene	3700		200	ug/m3	73.4		TO-15	Total/NA
Trichloroethene	5300		160	ug/m3	73.4		TO-15	Total/NA

Client Sample ID: VW-06-05-VPT-042114 — Lab Sample ID: 320-7188-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.87		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.9		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-06-30-VPT-042114 — Lab Sample ID: 320-7188-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	10		0.40	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.42		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	68		2.7	ug/m3	1		TO-15	Total/NA
Trichloroethene	2.3		2.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-06-55-VPT-042114 — Lab Sample ID: 320-7188-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.47		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	14		0.40	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.1		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	95		2.7	ug/m3	1		TO-15	Total/NA
Trichloroethene	5.8		2.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-06-85-VPT-042114 — Lab Sample ID: 320-7188-17

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	46		0.40	ppb v/v	1		TO-15	Total/NA
trans-1,2-Dichloroethene	1.2		0.40	ppb v/v	1		TO-15	Total/NA
Vinyl chloride	1.4		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene - DL	69		2.4	ppb v/v	5.9		TO-15	Total/NA
Trichloroethene - DL	140		2.4	ppb v/v	5.9		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		1.6	ug/m3	1		TO-15	Total/NA
trans-1,2-Dichloroethene	4.6		1.6	ug/m3	1		TO-15	Total/NA
Vinyl chloride	3.5		1.0	ug/m3	1		TO-15	Total/NA
Tetrachloroethene - DL	470		16	ug/m3	5.9		TO-15	Total/NA
Trichloroethene - DL	730		13	ug/m3	5.9		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-01-05-VPT-042214 — Lab Sample ID: 320-7188-18

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	130		1.7	ppb v/v	4.16		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	850		11	ug/m3	4.16		TO-15	Total/NA

Client Sample ID: VW-01-30-VPT-042214 — Lab Sample ID: 320-7188-19

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	330		4.0	ppb v/v	9.98		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	2200		27	ug/m3	9.98		TO-15	Total/NA

Client Sample ID: VW-01-55-VPT-042214 — Lab Sample ID: 320-7188-20

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	8.6		1.8	ppb v/v	4.43		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	59		12	ug/m3	4.43		TO-15	Total/NA

Client Sample ID: VW-01-85-VPT-042214 — Lab Sample ID: 320-7188-21

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	15		0.40	ppb v/v	1		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	98		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-01-85-VDT-042214 — Lab Sample ID: 320-7188-22

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	12	E6	0.40	ppb v/v	1		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	81	E6	2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-02-05-VPT-042214 — Lab Sample ID: 320-7188-23

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.4		0.40	ppb v/v	1		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	9.5		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-02-30-VPT-042214 — Lab Sample ID: 320-7188-24

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.7		0.40	ppb v/v	1		TO-15	Total/NA
Analyte	**Result**	**Qualifier**	**RL**	**Unit**	**Dil Fac**	**D**	**Method**	**Prep Type**
Tetrachloroethene	32		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-02-55-VPT-042214 — Lab Sample ID: 320-7188-25

This Detection Summary does not include radiochemical test results.

Client Sample ID: VW-02-55-VPT-042214 (Continued) — Lab Sample ID: 320-7188-25

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.4		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	30		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-02-85-VPT-042214 — Lab Sample ID: 320-7188-26

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.6		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	52		2.7	ug/m3	1		TO-15	Total/NA

Client Sample ID: VW-07-05-VPT-042214 — Lab Sample ID: 320-7188-27

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	26		11	ppb v/v	27.9		TO-15	Total/NA
Tetrachloroethene	940		11	ppb v/v	27.9		TO-15	Total/NA
Trichloroethene	13		11	ppb v/v	27.9		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100		44	ug/m3	27.9		TO-15	Total/NA
Tetrachloroethene	6400		76	ug/m3	27.9		TO-15	Total/NA
Trichloroethene	70		60	ug/m3	27.9		TO-15	Total/NA

Client Sample ID: VW-07-30-VPT-042214 — Lab Sample ID: 320-7188-28

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	56		44	ppb v/v	110		TO-15	Total/NA
Tetrachloroethene	2600		44	ppb v/v	110		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	220		170	ug/m3	110		TO-15	Total/NA
Tetrachloroethene	18000		300	ug/m3	110		TO-15	Total/NA

Client Sample ID: VW-07-55-VPT-042214 — Lab Sample ID: 320-7188-29

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	23000		590	ppb v/v	1470		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	160000		4000	ug/m3	1470		TO-15	Total/NA

Client Sample ID: VW-07-85-VPT-042214 — Lab Sample ID: 320-7188-30

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11000		220	ppb v/v	556		TO-15	Total/NA
Tetrachloroethene	7900		220	ppb v/v	556		TO-15	Total/NA
Trichloroethene	10000		220	ppb v/v	556		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	44000		880	ug/m3	556		TO-15	Total/NA
Tetrachloroethene	54000		1500	ug/m3	556		TO-15	Total/NA
Trichloroethene	54000		1200	ug/m3	556		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VML-01-190-VPT-042314 — Lab Sample ID: 320-7188-31

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	730		77	ppb v/v	193		TO-15	Total/NA
Trichloroethene	1000		77	ppb v/v	193		TO-15	Total/NA
Tetrachloroethene - DL	24000		190	ppb v/v	483		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2900		310	ug/m3	193		TO-15	Total/NA
Trichloroethene	5500		410	ug/m3	193		TO-15	Total/NA
Tetrachloroethene - DL	160000		1300	ug/m3	483		TO-15	Total/NA

Client Sample ID: VML-01-170-VPT-042314 — Lab Sample ID: 320-7188-32

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		1000	ppb v/v	2620		TO-15	Total/NA
Tetrachloroethene	42000		1000	ppb v/v	2620		TO-15	Total/NA
Trichloroethene	3100		1000	ppb v/v	2620		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6700		4200	ug/m3	2620		TO-15	Total/NA
Tetrachloroethene	290000		7100	ug/m3	2620		TO-15	Total/NA
Trichloroethene	17000		5600	ug/m3	2620		TO-15	Total/NA

Client Sample ID: VML-01-170-VDT-042314 — Lab Sample ID: 320-7188-33

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1800		1200	ppb v/v	3040		TO-15	Total/NA
Tetrachloroethene	44000		1200	ppb v/v	3040		TO-15	Total/NA
Trichloroethene	3300		1200	ppb v/v	3040		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7200		4800	ug/m3	3040		TO-15	Total/NA
Tetrachloroethene	300000		8200	ug/m3	3040		TO-15	Total/NA
Trichloroethene	18000		6500	ug/m3	3040		TO-15	Total/NA

Client Sample ID: VML-01-150-VPT-042314 — Lab Sample ID: 320-7188-34

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	830		380	ppb v/v	961		TO-15	Total/NA
Tetrachloroethene	15000		380	ppb v/v	961		TO-15	Total/NA
Trichloroethene	830		380	ppb v/v	961		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3300		1500	ug/m3	961		TO-15	Total/NA
Tetrachloroethene	100000		2600	ug/m3	961		TO-15	Total/NA
Trichloroethene	4400		2100	ug/m3	961		TO-15	Total/NA

Client Sample ID: VML-01-130-VPT-042314 — Lab Sample ID: 320-7188-35

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1100		11	ppb v/v	27.5		TO-15	Total/NA
Trichloroethene	68		11	ppb v/v	27.5		TO-15	Total/NA
Tetrachloroethene - DL	1200		22	ppb v/v	55.1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4300		44	ug/m3	27.5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VML-01-130-VPT-042314 (Continued) — Lab Sample ID: 320-7188-35

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	360		59		ug/m3	27.5		TO-15	Total/NA
Tetrachloroethene - DL	8200		150		ug/m3	55.1		TO-15	Total/NA

Client Sample ID: VML-02-190-VPT-042314 — Lab Sample ID: 320-7188-36

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260000		4400		ppb v/v	11000		TO-15	Total/NA
Tetrachloroethene	240000		4400		ppb v/v	11000		TO-15	Total/NA
Trichloroethene	29000		4400		ppb v/v	11000		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1000000		17000		ug/m3	11000		TO-15	Total/NA
Tetrachloroethene	1600000		30000		ug/m3	11000		TO-15	Total/NA
Trichloroethene	150000		24000		ug/m3	11000		TO-15	Total/NA

Client Sample ID: VML-02-170-VPT-042414 — Lab Sample ID: 320-7188-37

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	230000		4000		ppb v/v	10000		TO-15	Total/NA
Trichloroethene	53000		4000		ppb v/v	10000		TO-15	Total/NA
Tetrachloroethene - DL	690000		5000		ppb v/v	12500		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	910000		16000		ug/m3	10000		TO-15	Total/NA
Trichloroethene	290000		21000		ug/m3	10000		TO-15	Total/NA
Tetrachloroethene - DL	4700000		34000		ug/m3	12500		TO-15	Total/NA

Client Sample ID: VML-02-150-VPT-042414 — Lab Sample ID: 320-7188-38

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100000		2000		ppb v/v	4950		TO-15	Total/NA
Tetrachloroethene	180000		2000		ppb v/v	4950		TO-15	Total/NA
Trichloroethene	13000		2000		ppb v/v	4950		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	400000		7900		ug/m3	4950		TO-15	Total/NA
Tetrachloroethene	1200000		13000		ug/m3	4950		TO-15	Total/NA
Trichloroethene	70000		11000		ug/m3	4950		TO-15	Total/NA

Client Sample ID: VML-02-130-VPT-042414 — Lab Sample ID: 320-7188-39

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3400		1000		ppb v/v	2510		TO-15	Total/NA
Tetrachloroethene	36000		1000		ppb v/v	2510		TO-15	Total/NA
Trichloroethene	1900		1000		ppb v/v	2510		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14000		4000		ug/m3	2510		TO-15	Total/NA
Tetrachloroethene	240000		6800		ug/m3	2510		TO-15	Total/NA
Trichloroethene	10000		5400		ug/m3	2510		TO-15	Total/NA

Client Sample ID: VML-02-130-VDT-042414 — Lab Sample ID: 320-7188-40

This Detection Summary does not include radiochemical test results.

Client Sample ID: VML-02-130-VDT-042414 (Continued)

Lab Sample ID: 320-7188-40

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		110		ppb v/v	283		TO-15	Total/NA
Tetrachloroethene	3800		110		ppb v/v	283		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	640		450		ug/m3	283		TO-15	Total/NA
Tetrachloroethene	26000		770		ug/m3	283		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: VW-03-05-VPT-042114

Lab Sample ID: 320-7188-1

Date Collected: 04/21/14 11:16
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 00:52	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 00:52	1
Tetrachloroethene	**3.2**		0.40	ppb v/v			05/07/14 00:52	1
Trichloroethene	ND		0.40	ppb v/v			05/07/14 00:52	1
Vinyl chloride	ND		0.40	ppb v/v			05/07/14 00:52	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 00:52	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 00:52	1
Tetrachloroethene	**22**		2.7	ug/m3			05/07/14 00:52	1
Trichloroethene	ND		2.1	ug/m3			05/07/14 00:52	1
Vinyl chloride	ND		1.0	ug/m3			05/07/14 00:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*05/07/14 00:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/07/14 00:52*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/07/14 00:52*	*1*

Client Sample ID: VW-03-30-VPT-042114

Lab Sample ID: 320-7188-2

Date Collected: 04/21/14 11:07
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 01:50	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 01:50	1
Tetrachloroethene	**1.3**		0.40	ppb v/v			05/07/14 01:50	1
Trichloroethene	ND		0.40	ppb v/v			05/07/14 01:50	1
Vinyl chloride	ND		0.40	ppb v/v			05/07/14 01:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 01:50	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 01:50	1
Tetrachloroethene	**9.1**		2.7	ug/m3			05/07/14 01:50	1
Trichloroethene	ND		2.1	ug/m3			05/07/14 01:50	1
Vinyl chloride	ND		1.0	ug/m3			05/07/14 01:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*05/07/14 01:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*05/07/14 01:50*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/07/14 01:50*	*1*

Client Sample ID: VW-03-55-VPT-042114

Lab Sample ID: 320-7188-3

Date Collected: 04/21/14 10:56
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 02:45	1

Client Sample ID: VW-03-55-VPT-042114 — Lab Sample ID: 320-7188-3

Date Collected: 04/21/14 10:56 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 02:45	1
Tetrachloroethene	**2.7**		0.40	ppb v/v			05/07/14 02:45	1
Trichloroethene	ND		0.40	ppb v/v			05/07/14 02:45	1
Vinyl chloride	ND		0.40	ppb v/v			05/07/14 02:45	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 02:45	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 02:45	1
Tetrachloroethene	**19**		2.7	ug/m3			05/07/14 02:45	1
Trichloroethene	ND		2.1	ug/m3			05/07/14 02:45	1
Vinyl chloride	ND		1.0	ug/m3			05/07/14 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*05/07/14 02:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*05/07/14 02:45*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/07/14 02:45*	*1*

Client Sample ID: VW-03-85-VPT-042114 — Lab Sample ID: 320-7188-4

Date Collected: 04/21/14 10:41 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 03:41	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 03:41	1
Tetrachloroethene	**1.6**		0.40	ppb v/v			05/07/14 03:41	1
Trichloroethene	ND		0.40	ppb v/v			05/07/14 03:41	1
Vinyl chloride	ND		0.40	ppb v/v			05/07/14 03:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 03:41	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 03:41	1
Tetrachloroethene	**11**		2.7	ug/m3			05/07/14 03:41	1
Trichloroethene	ND		2.1	ug/m3			05/07/14 03:41	1
Vinyl chloride	ND		1.0	ug/m3			05/07/14 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*05/07/14 03:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*05/07/14 03:41*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/07/14 03:41*	*1*

Client Sample ID: VW-04-05-VPT-042114 — Lab Sample ID: 320-7188-5

Date Collected: 04/21/14 14:05 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 04:38	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 04:38	1

Client Sample ID: VW-04-05-VPT-042114 — Lab Sample ID: 320-7188-5

Date Collected: 04/21/14 14:05
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**56**		0.40	ppb v/v			05/07/14 04:38	1
Trichloroethene	ND		0.40	ppb v/v			05/07/14 04:38	1
Vinyl chloride	ND		0.40	ppb v/v			05/07/14 04:38	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 04:38	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 04:38	1
Tetrachloroethene	**380**		2.7	ug/m3			05/07/14 04:38	1
Trichloroethene	ND		2.1	ug/m3			05/07/14 04:38	1
Vinyl chloride	ND		1.0	ug/m3			05/07/14 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/07/14 04:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*05/07/14 04:38*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/07/14 04:38*	*1*

Client Sample ID: VW-04-30-VPT-042114 — Lab Sample ID: 320-7188-6

Date Collected: 04/21/14 13:41
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.4	ppb v/v			05/07/14 05:29	5.98
trans-1,2-Dichloroethene	ND		2.4	ppb v/v			05/07/14 05:29	5.98
Tetrachloroethene	**130**		2.4	ppb v/v			05/07/14 05:29	5.98
Trichloroethene	ND		2.4	ppb v/v			05/07/14 05:29	5.98
Vinyl chloride	ND		2.4	ppb v/v			05/07/14 05:29	5.98

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		9.5	ug/m3			05/07/14 05:29	5.98
trans-1,2-Dichloroethene	ND		9.5	ug/m3			05/07/14 05:29	5.98
Tetrachloroethene	**900**		16	ug/m3			05/07/14 05:29	5.98
Trichloroethene	ND		13	ug/m3			05/07/14 05:29	5.98
Vinyl chloride	ND		6.1	ug/m3			05/07/14 05:29	5.98

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*05/07/14 05:29*	*5.98*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*05/07/14 05:29*	*5.98*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/07/14 05:29*	*5.98*

Client Sample ID: VW-04-55-VPT-042114 — Lab Sample ID: 320-7188-7

Date Collected: 04/21/14 13:29
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2.0	ppb v/v			05/07/14 06:19	4.93
trans-1,2-Dichloroethene	ND		2.0	ppb v/v			05/07/14 06:19	4.93
Tetrachloroethene	**120**		2.0	ppb v/v			05/07/14 06:19	4.93

Client Sample ID: VW-04-55-VPT-042114 — Lab Sample ID: 320-7188-7

Date Collected: 04/21/14 13:29 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0	ppb v/v			05/07/14 06:19	4.93
Vinyl chloride	ND		2.0	ppb v/v			05/07/14 06:19	4.93

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		7.8	ug/m3			05/07/14 06:19	4.93
trans-1,2-Dichloroethene	ND		7.8	ug/m3			05/07/14 06:19	4.93
Tetrachloroethene	**820**		13	ug/m3			05/07/14 06:19	4.93
Trichloroethene	ND		11	ug/m3			05/07/14 06:19	4.93
Vinyl chloride	ND		5.0	ug/m3			05/07/14 06:19	4.93

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*05/07/14 06:19*	*4.93*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*05/07/14 06:19*	*4.93*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/07/14 06:19*	*4.93*

Client Sample ID: VW-04-85-VPT-042114 — Lab Sample ID: 320-7188-8

Date Collected: 04/21/14 13:11 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**300**		3.3	ppb v/v			05/07/14 07:09	8.31
trans-1,2-Dichloroethene	ND		3.3	ppb v/v			05/07/14 07:09	8.31
Tetrachloroethene	**90**		3.3	ppb v/v			05/07/14 07:09	8.31
Trichloroethene	**24**		3.3	ppb v/v			05/07/14 07:09	8.31
Vinyl chloride	ND		3.3	ppb v/v			05/07/14 07:09	8.31

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1200**		13	ug/m3			05/07/14 07:09	8.31
trans-1,2-Dichloroethene	ND		13	ug/m3			05/07/14 07:09	8.31
Tetrachloroethene	**610**		23	ug/m3			05/07/14 07:09	8.31
Trichloroethene	**130**		18	ug/m3			05/07/14 07:09	8.31
Vinyl chloride	ND		8.5	ug/m3			05/07/14 07:09	8.31

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*05/07/14 07:09*	*8.31*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/07/14 07:09*	*8.31*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/07/14 07:09*	*8.31*

Client Sample ID: VW-04-85-VDT-042114 — Lab Sample ID: 320-7188-9

Date Collected: 04/21/14 13:17 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**170**		2.3	ppb v/v			05/07/14 08:01	5.73
trans-1,2-Dichloroethene	ND		2.3	ppb v/v			05/07/14 08:01	5.73
Tetrachloroethene	**130**		2.3	ppb v/v			05/07/14 08:01	5.73
Trichloroethene	**19**		2.3	ppb v/v			05/07/14 08:01	5.73

Client Sample ID: VW-04-85-VDT-042114 — Lab Sample ID: 320-7188-9

Date Collected: 04/21/14 13:17 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		2.3	ppb v/v			05/07/14 08:01	5.73

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**680**		9.1	ug/m3			05/07/14 08:01	5.73
trans-1,2-Dichloroethene	ND		9.1	ug/m3			05/07/14 08:01	5.73
Tetrachloroethene	**860**		16	ug/m3			05/07/14 08:01	5.73
Trichloroethene	**100**		12	ug/m3			05/07/14 08:01	5.73
Vinyl chloride	ND		5.9	ug/m3			05/07/14 08:01	5.73

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/07/14 08:01*	*5.73*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/07/14 08:01*	*5.73*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/07/14 08:01*	*5.73*

Client Sample ID: VW-05-05-VPT-042114 — Lab Sample ID: 320-7188-10

Date Collected: 04/21/14 15:43 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 08:57	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/07/14 08:57	1
Tetrachloroethene	**27**		0.40	ppb v/v			05/07/14 08:57	1
Trichloroethene	ND		0.40	ppb v/v			05/07/14 08:57	1
Vinyl chloride	ND		0.40	ppb v/v			05/07/14 08:57	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 08:57	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/07/14 08:57	1
Tetrachloroethene	**190**		2.7	ug/m3			05/07/14 08:57	1
Trichloroethene	ND		2.1	ug/m3			05/07/14 08:57	1
Vinyl chloride	ND		1.0	ug/m3			05/07/14 08:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/07/14 08:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/07/14 08:57*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/07/14 08:57*	*1*

Client Sample ID: VW-05-30-VPT-042114 — Lab Sample ID: 320-7188-11

Date Collected: 04/21/14 15:26 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		12	ppb v/v			05/07/14 09:46	29.3
trans-1,2-Dichloroethene	ND		12	ppb v/v			05/07/14 09:46	29.3
Tetrachloroethene	**850**		12	ppb v/v			05/07/14 09:46	29.3
Trichloroethene	**12**		12	ppb v/v			05/07/14 09:46	29.3
Vinyl chloride	ND		12	ppb v/v			05/07/14 09:46	29.3

Client Sample ID: VW-05-30-VPT-042114 — Lab Sample ID: 320-7188-11

Date Collected: 04/21/14 15:26 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		46	ug/m3			05/07/14 09:46	29.3
trans-1,2-Dichloroethene	ND		46	ug/m3			05/07/14 09:46	29.3
Tetrachloroethene	**5700**		79	ug/m3			05/07/14 09:46	29.3
Trichloroethene	**62**		63	ug/m3			05/07/14 09:46	29.3
Vinyl chloride	ND		30	ug/m3			05/07/14 09:46	29.3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*05/07/14 09:46*	*29.3*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/07/14 09:46*	*29.3*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/07/14 09:46*	*29.3*

Client Sample ID: VW-05-55-VPT-042114 — Lab Sample ID: 320-7188-12

Date Collected: 04/21/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**44**		1.7	ppb v/v			05/08/14 00:37	4.16
trans-1,2-Dichloroethene	ND		1.7	ppb v/v			05/08/14 00:37	4.16
Tetrachloroethene	**150**		1.7	ppb v/v			05/08/14 00:37	4.16
Trichloroethene	**37**		1.7	ppb v/v			05/08/14 00:37	4.16
Vinyl chloride	ND		1.7	ppb v/v			05/08/14 00:37	4.16

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**170**		6.6	ug/m3			05/08/14 00:37	4.16
trans-1,2-Dichloroethene	ND		6.6	ug/m3			05/08/14 00:37	4.16
Tetrachloroethene	**1000**		11	ug/m3			05/08/14 00:37	4.16
Trichloroethene	**200**		8.9	ug/m3			05/08/14 00:37	4.16
Vinyl chloride	ND		4.3	ug/m3			05/08/14 00:37	4.16

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*05/08/14 00:37*	*4.16*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/08/14 00:37*	*4.16*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/08/14 00:37*	*4.16*

Client Sample ID: VW-05-85-VPT-042114 — Lab Sample ID: 320-7188-13

Date Collected: 04/21/14 14:57 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1800**		29	ppb v/v			05/08/14 01:28	73.4
trans-1,2-Dichloroethene	ND		29	ppb v/v			05/08/14 01:28	73.4
Tetrachloroethene	**550**		29	ppb v/v			05/08/14 01:28	73.4
Trichloroethene	**980**		29	ppb v/v			05/08/14 01:28	73.4
Vinyl chloride	ND		29	ppb v/v			05/08/14 01:28	73.4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**7100**		120	ug/m3			05/08/14 01:28	73.4
trans-1,2-Dichloroethene	ND		120	ug/m3			05/08/14 01:28	73.4

Client Sample ID: VW-05-85-VPT-042114 — Lab Sample ID: 320-7188-13

Date Collected: 04/21/14 14:57
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**3700**		200	ug/m3			05/08/14 01:28	73.4
Trichloroethene	**5300**		160	ug/m3			05/08/14 01:28	73.4
Vinyl chloride	ND		75	ug/m3			05/08/14 01:28	73.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*05/08/14 01:28*	*73.4*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/08/14 01:28*	*73.4*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/08/14 01:28*	*73.4*

Client Sample ID: VW-06-05-VPT-042114 — Lab Sample ID: 320-7188-14

Date Collected: 04/21/14 10:00
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 02:25	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 02:25	1
Tetrachloroethene	**0.87**		0.40	ppb v/v			05/08/14 02:25	1
Trichloroethene	ND		0.40	ppb v/v			05/08/14 02:25	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 02:25	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 02:25	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 02:25	1
Tetrachloroethene	**5.9**		2.7	ug/m3			05/08/14 02:25	1
Trichloroethene	ND		2.1	ug/m3			05/08/14 02:25	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 02:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*05/08/14 02:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/08/14 02:25*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/08/14 02:25*	*1*

Client Sample ID: VW-06-30-VPT-042114 — Lab Sample ID: 320-7188-15

Date Collected: 04/21/14 09:52
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 11:23	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 11:23	1
Tetrachloroethene	**10**		0.40	ppb v/v			05/08/14 11:23	1
Trichloroethene	**0.42**		0.40	ppb v/v			05/08/14 11:23	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 11:23	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 11:23	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 11:23	1
Tetrachloroethene	**68**		2.7	ug/m3			05/08/14 11:23	1

Client Sample ID: VW-06-30-VPT-042114

Lab Sample ID: 320-7188-15

Date Collected: 04/21/14 09:52
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	2.3		2.1	ug/m3			05/08/14 11:23	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/08/14 11:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/08/14 11:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/08/14 11:23*	*1*

Client Sample ID: VW-06-55-VPT-042114

Lab Sample ID: 320-7188-16

Date Collected: 04/21/14 09:41
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.47		0.40	ppb v/v			05/08/14 04:10	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 04:10	1
Tetrachloroethene	14		0.40	ppb v/v			05/08/14 04:10	1
Trichloroethene	1.1		0.40	ppb v/v			05/08/14 04:10	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 04:10	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.9		1.6	ug/m3			05/08/14 04:10	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 04:10	1
Tetrachloroethene	95		2.7	ug/m3			05/08/14 04:10	1
Trichloroethene	5.8		2.1	ug/m3			05/08/14 04:10	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/08/14 04:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/08/14 04:10*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/08/14 04:10*	*1*

Client Sample ID: VW-06-85-VPT-042114

Lab Sample ID: 320-7188-17

Date Collected: 04/21/14 09:28
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	46		0.40	ppb v/v			05/08/14 05:05	1
trans-1,2-Dichloroethene	1.2		0.40	ppb v/v			05/08/14 05:05	1
Vinyl chloride	1.4		0.40	ppb v/v			05/08/14 05:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	180		1.6	ug/m3			05/08/14 05:05	1
trans-1,2-Dichloroethene	4.6		1.6	ug/m3			05/08/14 05:05	1
Vinyl chloride	3.5		1.0	ug/m3			05/08/14 05:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*05/08/14 05:05*	*1*

Client Sample ID: VW-06-85-VPT-042114 — Lab Sample ID: 320-7188-17

Date Collected: 04/21/14 09:28 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/08/14 05:05	1
Toluene-d8 (Surr)	99		70 - 130		05/08/14 05:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**69**		2.4	ppb v/v			05/13/14 09:45	5.9
Trichloroethene	**140**		2.4	ppb v/v			05/13/14 09:45	5.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**470**		16	ug/m3			05/13/14 09:45	5.9
Trichloroethene	**730**		13	ug/m3			05/13/14 09:45	5.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		05/13/14 09:45	5.9
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		05/13/14 09:45	5.9
Toluene-d8 (Surr)	99		70 - 130		05/13/14 09:45	5.9

Client Sample ID: VW-01-05-VPT-042214 — Lab Sample ID: 320-7188-18

Date Collected: 04/22/14 17:14 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.7	ppb v/v			05/08/14 05:56	4.16
trans-1,2-Dichloroethene	ND		1.7	ppb v/v			05/08/14 05:56	4.16
Tetrachloroethene	**130**		1.7	ppb v/v			05/08/14 05:56	4.16
Trichloroethene	ND		1.7	ppb v/v			05/08/14 05:56	4.16
Vinyl chloride	ND		1.7	ppb v/v			05/08/14 05:56	4.16

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		6.6	ug/m3			05/08/14 05:56	4.16
trans-1,2-Dichloroethene	ND		6.6	ug/m3			05/08/14 05:56	4.16
Tetrachloroethene	**850**		11	ug/m3			05/08/14 05:56	4.16
Trichloroethene	ND		8.9	ug/m3			05/08/14 05:56	4.16
Vinyl chloride	ND		4.3	ug/m3			05/08/14 05:56	4.16

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		05/08/14 05:56	4.16
1,2-Dichloroethane-d4 (Surr)	91		70 - 130		05/08/14 05:56	4.16
Toluene-d8 (Surr)	99		70 - 130		05/08/14 05:56	4.16

Client Sample ID: VW-01-30-VPT-042214 — Lab Sample ID: 320-7188-19

Date Collected: 04/22/14 17:02 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.0	ppb v/v			05/08/14 06:47	9.98
trans-1,2-Dichloroethene	ND		4.0	ppb v/v			05/08/14 06:47	9.98

Client Sample ID: VW-01-30-VPT-042214 — Lab Sample ID: 320-7188-19

Date Collected: 04/22/14 17:02 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**330**		4.0	ppb v/v			05/08/14 06:47	9.98
Trichloroethene	ND		4.0	ppb v/v			05/08/14 06:47	9.98
Vinyl chloride	ND		4.0	ppb v/v			05/08/14 06:47	9.98

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		16	ug/m3			05/08/14 06:47	9.98
trans-1,2-Dichloroethene	ND		16	ug/m3			05/08/14 06:47	9.98
Tetrachloroethene	**2200**		27	ug/m3			05/08/14 06:47	9.98
Trichloroethene	ND		21	ug/m3			05/08/14 06:47	9.98
Vinyl chloride	ND		10	ug/m3			05/08/14 06:47	9.98

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*05/08/14 06:47*	*9.98*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/08/14 06:47*	*9.98*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/08/14 06:47*	*9.98*

Client Sample ID: VW-01-55-VPT-042214 — Lab Sample ID: 320-7188-20

Date Collected: 04/22/14 16:48 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.8	ppb v/v			05/08/14 19:14	4.43
trans-1,2-Dichloroethene	ND		1.8	ppb v/v			05/08/14 19:14	4.43
Tetrachloroethene	**8.6**		1.8	ppb v/v			05/08/14 19:14	4.43
Trichloroethene	ND		1.8	ppb v/v			05/08/14 19:14	4.43
Vinyl chloride	ND		1.8	ppb v/v			05/08/14 19:14	4.43

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		7.0	ug/m3			05/08/14 19:14	4.43
trans-1,2-Dichloroethene	ND		7.0	ug/m3			05/08/14 19:14	4.43
Tetrachloroethene	**59**		12	ug/m3			05/08/14 19:14	4.43
Trichloroethene	ND		9.5	ug/m3			05/08/14 19:14	4.43
Vinyl chloride	ND		4.5	ug/m3			05/08/14 19:14	4.43

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/08/14 19:14*	*4.43*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/08/14 19:14*	*4.43*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/08/14 19:14*	*4.43*

Client Sample ID: VW-01-85-VPT-042214 — Lab Sample ID: 320-7188-21

Date Collected: 04/22/14 16:26 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 08:35	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 08:35	1
Tetrachloroethene	**15**		0.40	ppb v/v			05/08/14 08:35	1

Client Sample ID: VW-01-85-VPT-042214 — Lab Sample ID: 320-7188-21

Date Collected: 04/22/14 16:26 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		0.40	ppb v/v			05/08/14 08:35	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 08:35	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 08:35	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 08:35	1
Tetrachloroethene	**98**		2.7	ug/m3			05/08/14 08:35	1
Trichloroethene	ND		2.1	ug/m3			05/08/14 08:35	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*05/08/14 08:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*157*	*X*	*70 - 130*		*05/08/14 08:35*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*05/08/14 08:35*	*1*

Client Sample ID: VW-01-85-VDT-042214 — Lab Sample ID: 320-7188-22

Date Collected: 04/22/14 16:33 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 09:29	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 09:29	1
Tetrachloroethene	**12**	**E6**	0.40	ppb v/v			05/08/14 09:29	1
Trichloroethene	ND		0.40	ppb v/v			05/08/14 09:29	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 09:29	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 09:29	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 09:29	1
Tetrachloroethene	**81**	**E6**	2.7	ug/m3			05/08/14 09:29	1
Trichloroethene	ND		2.1	ug/m3			05/08/14 09:29	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*	*E6*	*70 - 130*		*05/08/14 09:29*	*1*
4-Bromofluorobenzene (Surr)	*105*	*E6*	*70 - 130*		*05/09/14 12:41*	*1.51*
1,2-Dichloroethane-d4 (Surr)	*143*	*X*	*70 - 130*		*05/08/14 09:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*134*	*X*	*70 - 130*		*05/09/14 12:41*	*1.51*
Toluene-d8 (Surr)	*109*		*70 - 130*		*05/08/14 09:29*	*1*
Toluene-d8 (Surr)	*108*		*70 - 130*		*05/09/14 12:41*	*1.51*

Client Sample ID: VW-02-05-VPT-042214 — Lab Sample ID: 320-7188-23

Date Collected: 04/22/14 11:08 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 20:10	1

Client Sample ID: VW-02-05-VPT-042214 — Lab Sample ID: 320-7188-23

Date Collected: 04/22/14 11:08 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 20:10	1
Tetrachloroethene	**1.4**		0.40	ppb v/v			05/08/14 20:10	1
Trichloroethene	ND		0.40	ppb v/v			05/08/14 20:10	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 20:10	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 20:10	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 20:10	1
Tetrachloroethene	**9.5**		2.7	ug/m3			05/08/14 20:10	1
Trichloroethene	ND		2.1	ug/m3			05/08/14 20:10	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/08/14 20:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/08/14 20:10*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/08/14 20:10*	*1*

Client Sample ID: VW-02-30-VPT-042214 — Lab Sample ID: 320-7188-24

Date Collected: 04/22/14 10:58 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 21:07	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 21:07	1
Tetrachloroethene	**4.7**		0.40	ppb v/v			05/08/14 21:07	1
Trichloroethene	ND		0.40	ppb v/v			05/08/14 21:07	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 21:07	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 21:07	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 21:07	1
Tetrachloroethene	**32**		2.7	ug/m3			05/08/14 21:07	1
Trichloroethene	ND		2.1	ug/m3			05/08/14 21:07	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/08/14 21:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/08/14 21:07*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/08/14 21:07*	*1*

Client Sample ID: VW-02-55-VPT-042214 — Lab Sample ID: 320-7188-25

Date Collected: 04/22/14 10:38 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 23:06	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 23:06	1

Client Sample ID: VW-02-55-VPT-042214 — Lab Sample ID: 320-7188-25

Date Collected: 04/22/14 10:38 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**4.4**		0.40	ppb v/v			05/08/14 23:06	1
Trichloroethene	ND		0.40	ppb v/v			05/08/14 23:06	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 23:06	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 23:06	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/08/14 23:06	1
Tetrachloroethene	**30**		2.7	ug/m3			05/08/14 23:06	1
Trichloroethene	ND		2.1	ug/m3			05/08/14 23:06	1
Vinyl chloride	ND		1.0	ug/m3			05/08/14 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*05/08/14 23:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/08/14 23:06*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/08/14 23:06*	*1*

Client Sample ID: VW-02-85-VPT-042214 — Lab Sample ID: 320-7188-26

Date Collected: 04/22/14 10:27 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/09/14 00:00	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/09/14 00:00	1
Tetrachloroethene	**7.6**		0.40	ppb v/v			05/09/14 00:00	1
Trichloroethene	ND		0.40	ppb v/v			05/09/14 00:00	1
Vinyl chloride	ND		0.40	ppb v/v			05/09/14 00:00	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			05/09/14 00:00	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			05/09/14 00:00	1
Tetrachloroethene	**52**		2.7	ug/m3			05/09/14 00:00	1
Trichloroethene	ND		2.1	ug/m3			05/09/14 00:00	1
Vinyl chloride	ND		1.0	ug/m3			05/09/14 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/09/14 00:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/09/14 00:00*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/09/14 00:00*	*1*

Client Sample ID: VW-07-05-VPT-042214 — Lab Sample ID: 320-7188-27

Date Collected: 04/22/14 15:38 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**26**		11	ppb v/v			05/09/14 00:50	27.9
trans-1,2-Dichloroethene	ND		11	ppb v/v			05/09/14 00:50	27.9
Tetrachloroethene	**940**		11	ppb v/v			05/09/14 00:50	27.9

Client Sample ID: VW-07-05-VPT-042214 — Lab Sample ID: 320-7188-27

Date Collected: 04/22/14 15:38 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	**13**		11	ppb v/v			05/09/14 00:50	27.9
Vinyl chloride	ND		11	ppb v/v			05/09/14 00:50	27.9

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**100**		44	ug/m3			05/09/14 00:50	27.9
trans-1,2-Dichloroethene	ND		44	ug/m3			05/09/14 00:50	27.9
Tetrachloroethene	**6400**		76	ug/m3			05/09/14 00:50	27.9
Trichloroethene	**70**		60	ug/m3			05/09/14 00:50	27.9
Vinyl chloride	ND		29	ug/m3			05/09/14 00:50	27.9

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*05/09/14 00:50*	*27.9*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/09/14 00:50*	*27.9*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/09/14 00:50*	*27.9*

Client Sample ID: VW-07-30-VPT-042214 — Lab Sample ID: 320-7188-28

Date Collected: 04/22/14 15:28 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**56**		44	ppb v/v			05/09/14 01:41	110
trans-1,2-Dichloroethene	ND		44	ppb v/v			05/09/14 01:41	110
Tetrachloroethene	**2600**		44	ppb v/v			05/09/14 01:41	110
Trichloroethene	ND		44	ppb v/v			05/09/14 01:41	110
Vinyl chloride	ND		44	ppb v/v			05/09/14 01:41	110

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**220**		170	ug/m3			05/09/14 01:41	110
trans-1,2-Dichloroethene	ND		170	ug/m3			05/09/14 01:41	110
Tetrachloroethene	**18000**		300	ug/m3			05/09/14 01:41	110
Trichloroethene	ND		240	ug/m3			05/09/14 01:41	110
Vinyl chloride	ND		110	ug/m3			05/09/14 01:41	110

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/09/14 01:41*	*110*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/09/14 01:41*	*110*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/09/14 01:41*	*110*

Client Sample ID: VW-07-55-VPT-042214 — Lab Sample ID: 320-7188-29

Date Collected: 04/22/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		590	ppb v/v			05/09/14 02:31	1470
trans-1,2-Dichloroethene	ND		590	ppb v/v			05/09/14 02:31	1470
Tetrachloroethene	**23000**		590	ppb v/v			05/09/14 02:31	1470
Trichloroethene	ND		590	ppb v/v			05/09/14 02:31	1470

Client Sample ID: VW-07-55-VPT-042214 — Lab Sample ID: 320-7188-29

Date Collected: 04/22/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		590	ppb v/v			05/09/14 02:31	1470

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		2300	ug/m3			05/09/14 02:31	1470
trans-1,2-Dichloroethene	ND		2300	ug/m3			05/09/14 02:31	1470
Tetrachloroethene	**160000**		4000	ug/m3			05/09/14 02:31	1470
Trichloroethene	ND		3200	ug/m3			05/09/14 02:31	1470
Vinyl chloride	ND		1500	ug/m3			05/09/14 02:31	1470

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/09/14 02:31*	*1470*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/09/14 02:31*	*1470*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/09/14 02:31*	*1470*

Client Sample ID: VW-07-85-VPT-042214 — Lab Sample ID: 320-7188-30

Date Collected: 04/22/14 15:01 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**11000**		220	ppb v/v			05/09/14 03:20	556
trans-1,2-Dichloroethene	ND		220	ppb v/v			05/09/14 03:20	556
Tetrachloroethene	**7900**		220	ppb v/v			05/09/14 03:20	556
Trichloroethene	**10000**		220	ppb v/v			05/09/14 03:20	556
Vinyl chloride	ND		220	ppb v/v			05/09/14 03:20	556

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**44000**		880	ug/m3			05/09/14 03:20	556
trans-1,2-Dichloroethene	ND		880	ug/m3			05/09/14 03:20	556
Tetrachloroethene	**54000**		1500	ug/m3			05/09/14 03:20	556
Trichloroethene	**54000**		1200	ug/m3			05/09/14 03:20	556
Vinyl chloride	ND		570	ug/m3			05/09/14 03:20	556

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*05/09/14 03:20*	*556*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/09/14 03:20*	*556*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/09/14 03:20*	*556*

Client Sample ID: VML-01-190-VPT-042314 — Lab Sample ID: 320-7188-31

Date Collected: 04/23/14 09:43 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**730**		77	ppb v/v			05/09/14 04:11	193
trans-1,2-Dichloroethene	ND		77	ppb v/v			05/09/14 04:11	193
Trichloroethene	**1000**		77	ppb v/v			05/09/14 04:11	193
Vinyl chloride	ND		77	ppb v/v			05/09/14 04:11	193

Client Sample ID: VML-01-190-VPT-042314

Lab Sample ID: 320-7188-31

Date Collected: 04/23/14 09:43
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2900		310	ug/m3			05/09/14 04:11	193
trans-1,2-Dichloroethene	ND		310	ug/m3			05/09/14 04:11	193
Trichloroethene	5500		410	ug/m3			05/09/14 04:11	193
Vinyl chloride	ND		200	ug/m3			05/09/14 04:11	193

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/09/14 04:11*	*193*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/09/14 04:11*	*193*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/09/14 04:11*	*193*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	24000		190	ppb v/v			05/13/14 04:36	483

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	160000		1300	ug/m3			05/13/14 04:36	483

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*05/13/14 04:36*	*483*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/13/14 04:36*	*483*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/13/14 04:36*	*483*

Client Sample ID: VML-01-170-VPT-042314

Lab Sample ID: 320-7188-32

Date Collected: 04/23/14 10:22
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1700		1000	ppb v/v			05/09/14 05:01	2620
trans-1,2-Dichloroethene	ND		1000	ppb v/v			05/09/14 05:01	2620
Tetrachloroethene	42000		1000	ppb v/v			05/09/14 05:01	2620
Trichloroethene	3100		1000	ppb v/v			05/09/14 05:01	2620
Vinyl chloride	ND		1000	ppb v/v			05/09/14 05:01	2620

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	6700		4200	ug/m3			05/09/14 05:01	2620
trans-1,2-Dichloroethene	ND		4200	ug/m3			05/09/14 05:01	2620
Tetrachloroethene	290000		7100	ug/m3			05/09/14 05:01	2620
Trichloroethene	17000		5600	ug/m3			05/09/14 05:01	2620
Vinyl chloride	ND		2700	ug/m3			05/09/14 05:01	2620

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/09/14 05:01*	*2620*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/09/14 05:01*	*2620*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/09/14 05:01*	*2620*

Client Sample ID: VML-01-170-VDT-042314 — Lab Sample ID: 320-7188-33

Date Collected: 04/23/14 10:27 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1800		1200	ppb v/v			05/09/14 05:51	3040
trans-1,2-Dichloroethene	ND		1200	ppb v/v			05/09/14 05:51	3040
Tetrachloroethene	44000		1200	ppb v/v			05/09/14 05:51	3040
Trichloroethene	3300		1200	ppb v/v			05/09/14 05:51	3040
Vinyl chloride	ND		1200	ppb v/v			05/09/14 05:51	3040

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	7200		4800	ug/m3			05/09/14 05:51	3040
trans-1,2-Dichloroethene	ND		4800	ug/m3			05/09/14 05:51	3040
Tetrachloroethene	300000		8200	ug/m3			05/09/14 05:51	3040
Trichloroethene	18000		6500	ug/m3			05/09/14 05:51	3040
Vinyl chloride	ND		3100	ug/m3			05/09/14 05:51	3040

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/09/14 05:51*	*3040*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/09/14 05:51*	*3040*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/09/14 05:51*	*3040*

Client Sample ID: VML-01-150-VPT-042314 — Lab Sample ID: 320-7188-34

Date Collected: 04/23/14 14:43 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	830		380	ppb v/v			05/09/14 06:43	961
trans-1,2-Dichloroethene	ND		380	ppb v/v			05/09/14 06:43	961
Tetrachloroethene	15000		380	ppb v/v			05/09/14 06:43	961
Trichloroethene	830		380	ppb v/v			05/09/14 06:43	961
Vinyl chloride	ND		380	ppb v/v			05/09/14 06:43	961

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3300		1500	ug/m3			05/09/14 06:43	961
trans-1,2-Dichloroethene	ND		1500	ug/m3			05/09/14 06:43	961
Tetrachloroethene	100000		2600	ug/m3			05/09/14 06:43	961
Trichloroethene	4400		2100	ug/m3			05/09/14 06:43	961
Vinyl chloride	ND		980	ug/m3			05/09/14 06:43	961

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*05/09/14 06:43*	*961*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/09/14 06:43*	*961*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/09/14 06:43*	*961*

Client Sample ID: VML-01-130-VPT-042314 — Lab Sample ID: 320-7188-35

Date Collected: 04/23/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1100		11	ppb v/v			05/09/14 07:33	27.5

Client Sample ID: VML-01-130-VPT-042314

Lab Sample ID: 320-7188-35

Date Collected: 04/23/14 15:16
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		11	ppb v/v			05/09/14 07:33	27.5
Trichloroethene	**68**		11	ppb v/v			05/09/14 07:33	27.5
Vinyl chloride	ND		11	ppb v/v			05/09/14 07:33	27.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**4300**		44	ug/m3			05/09/14 07:33	27.5
trans-1,2-Dichloroethene	ND		44	ug/m3			05/09/14 07:33	27.5
Trichloroethene	**360**		59	ug/m3			05/09/14 07:33	27.5
Vinyl chloride	ND		28	ug/m3			05/09/14 07:33	27.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*05/09/14 07:33*	*27.5*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/09/14 07:33*	*27.5*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/09/14 07:33*	*27.5*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1200**		22	ppb v/v			05/13/14 05:27	55.1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**8200**		150	ug/m3			05/13/14 05:27	55.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*05/13/14 05:27*	*55.1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/13/14 05:27*	*55.1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/13/14 05:27*	*55.1*

Client Sample ID: VML-02-190-VPT-042314

Lab Sample ID: 320-7188-36

Date Collected: 04/23/14 16:04
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**260000**		4400	ppb v/v			05/09/14 08:24	11000
trans-1,2-Dichloroethene	ND		4400	ppb v/v			05/09/14 08:24	11000
Tetrachloroethene	**240000**		4400	ppb v/v			05/09/14 08:24	11000
Trichloroethene	**29000**		4400	ppb v/v			05/09/14 08:24	11000
Vinyl chloride	ND		4400	ppb v/v			05/09/14 08:24	11000

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1000000**		17000	ug/m3			05/09/14 08:24	11000
trans-1,2-Dichloroethene	ND		17000	ug/m3			05/09/14 08:24	11000
Tetrachloroethene	**1600000**		30000	ug/m3			05/09/14 08:24	11000
Trichloroethene	**150000**		24000	ug/m3			05/09/14 08:24	11000
Vinyl chloride	ND		11000	ug/m3			05/09/14 08:24	11000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*05/09/14 08:24*	*11000*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/09/14 08:24*	*11000*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/09/14 08:24*	*11000*

Client Sample ID: VML-02-170-VPT-042414 — Lab Sample ID: 320-7188-37

Date Collected: 04/24/14 09:15 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	230000		4000	ppb v/v			05/09/14 09:13	10000
trans-1,2-Dichloroethene	ND		4000	ppb v/v			05/09/14 09:13	10000
Trichloroethene	53000		4000	ppb v/v			05/09/14 09:13	10000
Vinyl chloride	ND		4000	ppb v/v			05/09/14 09:13	10000

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	910000		16000	ug/m3			05/09/14 09:13	10000
trans-1,2-Dichloroethene	ND		16000	ug/m3			05/09/14 09:13	10000
Trichloroethene	290000		21000	ug/m3			05/09/14 09:13	10000
Vinyl chloride	ND		10000	ug/m3			05/09/14 09:13	10000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*05/09/14 09:13*	*10000*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/09/14 09:13*	*10000*
Toluene-d8 (Surr)	*96*		*70 - 130*		*05/09/14 09:13*	*10000*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	690000		5000	ppb v/v			05/13/14 06:16	12500

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	4700000		34000	ug/m3			05/13/14 06:16	12500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*05/13/14 06:16*	*12500*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*05/13/14 06:16*	*12500*
Toluene-d8 (Surr)	*103*		*70 - 130*		*05/13/14 06:16*	*12500*

Client Sample ID: VML-02-150-VPT-042414 — Lab Sample ID: 320-7188-38

Date Collected: 04/24/14 09:49 — **Matrix: Air**
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	100000		2000	ppb v/v			05/09/14 10:03	4950
trans-1,2-Dichloroethene	ND		2000	ppb v/v			05/09/14 10:03	4950
Tetrachloroethene	180000		2000	ppb v/v			05/09/14 10:03	4950
Trichloroethene	13000		2000	ppb v/v			05/09/14 10:03	4950
Vinyl chloride	ND		2000	ppb v/v			05/09/14 10:03	4950

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	400000		7900	ug/m3			05/09/14 10:03	4950
trans-1,2-Dichloroethene	ND		7900	ug/m3			05/09/14 10:03	4950
Tetrachloroethene	1200000		13000	ug/m3			05/09/14 10:03	4950
Trichloroethene	70000		11000	ug/m3			05/09/14 10:03	4950
Vinyl chloride	ND		5100	ug/m3			05/09/14 10:03	4950

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*05/09/14 10:03*	*4950*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*05/09/14 10:03*	*4950*
Toluene-d8 (Surr)	*100*		*70 - 130*		*05/09/14 10:03*	*4950*

Client Sample ID: VML-02-130-VPT-042414

Lab Sample ID: 320-7188-39

Date Collected: 04/24/14 10:21
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3400		1000	ppb v/v			05/09/14 10:54	2510
trans-1,2-Dichloroethene	ND		1000	ppb v/v			05/09/14 10:54	2510
Tetrachloroethene	36000		1000	ppb v/v			05/09/14 10:54	2510
Trichloroethene	1900		1000	ppb v/v			05/09/14 10:54	2510
Vinyl chloride	ND		1000	ppb v/v			05/09/14 10:54	2510

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	14000		4000	ug/m3			05/09/14 10:54	2510
trans-1,2-Dichloroethene	ND		4000	ug/m3			05/09/14 10:54	2510
Tetrachloroethene	240000		6800	ug/m3			05/09/14 10:54	2510
Trichloroethene	10000		5400	ug/m3			05/09/14 10:54	2510
Vinyl chloride	ND		2600	ug/m3			05/09/14 10:54	2510

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*05/09/14 10:54*	*2510*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*05/09/14 10:54*	*2510*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/09/14 10:54*	*2510*

Client Sample ID: VML-02-130-VDT-042414

Lab Sample ID: 320-7188-40

Date Collected: 04/24/14 10:27
Matrix: Air
Date Received: 04/25/14 09:10
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	160		110	ppb v/v			05/09/14 11:45	283
trans-1,2-Dichloroethene	ND		110	ppb v/v			05/09/14 11:45	283
Tetrachloroethene	3800		110	ppb v/v			05/09/14 11:45	283
Trichloroethene	ND		110	ppb v/v			05/09/14 11:45	283
Vinyl chloride	ND		110	ppb v/v			05/09/14 11:45	283

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	640		450	ug/m3			05/09/14 11:45	283
trans-1,2-Dichloroethene	ND		450	ug/m3			05/09/14 11:45	283
Tetrachloroethene	26000		770	ug/m3			05/09/14 11:45	283
Trichloroethene	ND		610	ug/m3			05/09/14 11:45	283
Vinyl chloride	ND		290	ug/m3			05/09/14 11:45	283

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*05/09/14 11:45*	*283*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/09/14 11:45*	*283*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/09/14 11:45*	*283*

Surrogate Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

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

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		BFB	12DCE	TOL					
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)					
320-7188-1	VW-03-05-VPT-042114	105	91	100					
320-7188-2	VW-03-30-VPT-042114	101	89	100					
320-7188-3	VW-03-55-VPT-042114	103	88	99					
320-7188-4	VW-03-85-VPT-042114	94	87	99					
320-7188-5	VW-04-05-VPT-042114	98	88	99					
320-7188-6	VW-04-30-VPT-042114	92	88	99					
320-7188-7	VW-04-55-VPT-042114	92	89	99					
320-7188-8	VW-04-85-VPT-042114	91	90	99					
320-7188-9	VW-04-85-VDT-042114	98	90	100					
320-7188-10	VW-05-05-VPT-042114	98	90	101					
320-7188-11	VW-05-30-VPT-042114	92	90	102					
320-7188-12	VW-05-55-VPT-042114	92	93	100					
320-7188-13	VW-05-85-VPT-042114	99	92	100					
320-7188-14	VW-06-05-VPT-042114	101	90	99					
320-7188-15	VW-06-30-VPT-042114	96	90	99					
320-7188-16	VW-06-55-VPT-042114	98	91	101					
320-7188-17	VW-06-85-VPT-042114	94	91	99					
320-7188-17 - DL	VW-06-85-VPT-042114	96	95	99					
320-7188-18	VW-01-05-VPT-042214	94	91	99					
320-7188-19	VW-01-30-VPT-042214	91	91	99					
320-7188-20	VW-01-55-VPT-042214	96	91	98					
320-7188-21	VW-01-85-VPT-042214	92	157 X	109					
320-7188-22	VW-01-85-VDT-042214	112 E6	143 X	109					
320-7188-22	VW-01-85-VDT-042214	105 E6	134 X	108					
320-7188-23	VW-02-05-VPT-042214	96	92	101					
320-7188-24	VW-02-30-VPT-042214	96	93	98					
320-7188-25	VW-02-55-VPT-042214	94	91	98					
320-7188-26	VW-02-85-VPT-042214	98	90	98					
320-7188-27	VW-07-05-VPT-042214	89	92	99					
320-7188-28	VW-07-30-VPT-042214	96	91	99					
320-7188-29	VW-07-55-VPT-042214	96	92	99					
320-7188-30	VW-07-85-VPT-042214	95	93	99					
320-7188-31	VML-01-190-VPT-042314	96	91	96					
320-7188-31 - DL	VML-01-190-VPT-042314	101	95	99					
320-7188-32	VML-01-170-VPT-042314	96	91	97					
320-7188-33	VML-01-170-VDT-042314	96	92	100					
320-7188-34	VML-01-150-VPT-042314	99	93	100					
320-7188-35	VML-01-130-VPT-042314	91	92	98					
320-7188-35 - DL	VML-01-130-VPT-042314	104	95	100					
320-7188-36	VML-02-190-VPT-042314	97	94	98					
320-7188-37	VML-02-170-VPT-042414	96	93	96					
320-7188-37 - DL	VML-02-170-VPT-042414	98	96	103					
320-7188-38	VML-02-150-VPT-042414	97	93	100					
320-7188-39	VML-02-130-VPT-042414	105	95	101					
320-7188-40	VML-02-130-VDT-042414	100	92	99					
LCS 320-41830/5	Lab Control Sample	102	99	103					
LCS 320-41910/5	Lab Control Sample	105	96	102					
LCS 320-42000/4	Lab Control Sample	102	98	102					
LCS 320-42186/4	Lab Control Sample	106	99	101					

Surrogate Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

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

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
LCSD 320-41830/19	Lab Control Sample Dup	105	96	101
LCSD 320-41910/24	Lab Control Sample Dup	106	98	101
LCSD 320-42000/5	Lab Control Sample Dup	106	98	103
LCSD 320-42186/5	Lab Control Sample Dup	106	100	101
MB 320-41830/7	Method Blank	83	92	97
MB 320-41910/7	Method Blank	90	90	98
MB 320-42000/7	Method Blank	91	91	99
MB 320-42186/7	Method Blank	89	94	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 320-41830/7 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 41830

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			05/06/14 17:47	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			05/06/14 17:47	1
Tetrachloroethene	ND		0.40		ppb v/v			05/06/14 17:47	1
Trichloroethene	ND		0.40		ppb v/v			05/06/14 17:47	1
Vinyl chloride	ND		0.40		ppb v/v			05/06/14 17:47	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			05/06/14 17:47	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			05/06/14 17:47	1
Tetrachloroethene	ND		2.7		ug/m3			05/06/14 17:47	1
Trichloroethene	ND		2.1		ug/m3			05/06/14 17:47	1
Vinyl chloride	ND		1.0		ug/m3			05/06/14 17:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*05/06/14 17:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*05/06/14 17:47*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*05/06/14 17:47*	*1*

Lab Sample ID: LCS 320-41830/5 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 41830

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.4	22.7		ppb v/v		112	70 - 130		
trans-1,2-Dichloroethene			20.2	21.8		ppb v/v		108	70 - 130		
Tetrachloroethene			19.6	23.6		ppb v/v		120	70 - 130		
Trichloroethene			20.4	23.6		ppb v/v		116	70 - 130		
Vinyl chloride			20.4	19.8		ppb v/v		97	70 - 130		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			81	90.2		ug/m3		112	70 - 130		
trans-1,2-Dichloroethene			80	86.6		ug/m3		108	70 - 130		
Tetrachloroethene			130	160		ug/m3		120	70 - 130		
Trichloroethene			110	127		ug/m3		116	70 - 130		
Vinyl chloride			52	50.6		ug/m3		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 320-41830/19 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 41830

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			20.4	21.3		ppb v/v		104	70 - 130	7	25

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

Lab Sample ID: LCSD 320-41830/19 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 41830

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			20.2	20.4		ppb v/v		101	70 - 130	7	25
Tetrachloroethene			19.6	22.6		ppb v/v		115	70 - 130	4	25
Trichloroethene			20.4	22.0		ppb v/v		108	70 - 130	7	25
Vinyl chloride			20.4	16.6		ppb v/v		81	70 - 130	18	25

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			81	84.4		ug/m3		104	70 - 130	7	25
trans-1,2-Dichloroethene			80	81.0		ug/m3		101	70 - 130	7	25
Tetrachloroethene			130	153		ug/m3		115	70 - 130	4	25
Trichloroethene			110	118		ug/m3		108	70 - 130	7	25
Vinyl chloride			52	42.4		ug/m3		81	70 - 130	18	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 320-41910/7 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 41910

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			05/07/14 19:25	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			05/07/14 19:25	1
Tetrachloroethene	ND		0.40		ppb v/v			05/07/14 19:25	1
Trichloroethene	ND		0.40		ppb v/v			05/07/14 19:25	1
Vinyl chloride	ND		0.40		ppb v/v			05/07/14 19:25	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			05/07/14 19:25	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			05/07/14 19:25	1
Tetrachloroethene	ND		2.7		ug/m3			05/07/14 19:25	1
Trichloroethene	ND		2.1		ug/m3			05/07/14 19:25	1
Vinyl chloride	ND		1.0		ug/m3			05/07/14 19:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*		*05/07/14 19:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*05/07/14 19:25*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/07/14 19:25*	*1*

Lab Sample ID: LCS 320-41910/5 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 41910

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.4	22.6		ppb v/v		111	70 - 130		
trans-1,2-Dichloroethene			20.2	21.5		ppb v/v		107	70 - 130		
Tetrachloroethene			19.6	23.9		ppb v/v		122	70 - 130		

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

Lab Sample ID: LCS 320-41910/5
Matrix: Air
Analysis Batch: 41910

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichloroethene	20.4	23.4		ppb v/v		114	70 - 130
Vinyl chloride	20.4	18.1		ppb v/v		89	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	81	89.8		ug/m3		111	70 - 130
trans-1,2-Dichloroethene	80	85.4		ug/m3		107	70 - 130
Tetrachloroethene	130	162		ug/m3		122	70 - 130
Trichloroethene	110	125		ug/m3		114	70 - 130
Vinyl chloride	52	46.2		ug/m3		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 320-41910/24
Matrix: Air
Analysis Batch: 41910

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.4	22.2		ppb v/v		109	70 - 130	2	25
trans-1,2-Dichloroethene	20.2	21.4		ppb v/v		106	70 - 130	1	25
Tetrachloroethene	19.6	23.9		ppb v/v		122	70 - 130	0	25
Trichloroethene	20.4	23.2		ppb v/v		114	70 - 130	1	25
Vinyl chloride	20.4	19.2		ppb v/v		94	70 - 130	6	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	81	88.2		ug/m3		109	70 - 130	2	25
trans-1,2-Dichloroethene	80	84.7		ug/m3		106	70 - 130	1	25
Tetrachloroethene	130	162		ug/m3		122	70 - 130	0	25
Trichloroethene	110	125		ug/m3		114	70 - 130	1	25
Vinyl chloride	52	49.2		ug/m3		94	70 - 130	6	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 320-42000/7
Matrix: Air
Analysis Batch: 42000

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

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 18:23	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			05/08/14 18:23	1
Tetrachloroethene	ND		0.40	ppb v/v			05/08/14 18:23	1
Trichloroethene	ND		0.40	ppb v/v			05/08/14 18:23	1
Vinyl chloride	ND		0.40	ppb v/v			05/08/14 18:23	1

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

Lab Sample ID: MB 320-42000/7
Matrix: Air
Analysis Batch: 42000

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			05/08/14 18:23	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			05/08/14 18:23	1
Tetrachloroethene	ND		2.7		ug/m3			05/08/14 18:23	1
Trichloroethene	ND		2.1		ug/m3			05/08/14 18:23	1
Vinyl chloride	ND		1.0		ug/m3			05/08/14 18:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*		*05/08/14 18:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*05/08/14 18:23*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/08/14 18:23*	*1*

Lab Sample ID: LCS 320-42000/4
Matrix: Air
Analysis Batch: 42000

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.4	22.5		ppb v/v		110	70 - 130		
trans-1,2-Dichloroethene			20.2	21.4		ppb v/v		106	70 - 130		
Tetrachloroethene			19.6	23.7		ppb v/v		121	70 - 130		
Trichloroethene			20.4	23.5		ppb v/v		115	70 - 130		
Vinyl chloride			20.4	18.6		ppb v/v		91	70 - 130		
Analyte			**Spike Added**	**LCS Result**	**LCS Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**		
cis-1,2-Dichloroethene			81	89.3		ug/m3		110	70 - 130		
trans-1,2-Dichloroethene			80	85.0		ug/m3		106	70 - 130		
Tetrachloroethene			130	161		ug/m3		121	70 - 130		
Trichloroethene			110	126		ug/m3		115	70 - 130		
Vinyl chloride			52	47.4		ug/m3		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 320-42000/5
Matrix: Air
Analysis Batch: 42000

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			20.4	23.6		ppb v/v		115	70 - 130	5	25
trans-1,2-Dichloroethene			20.2	22.1		ppb v/v		110	70 - 130	3	25
Tetrachloroethene			19.6	25.0		ppb v/v		127	70 - 130	5	25
Trichloroethene			20.4	26.2		ppb v/v		128	70 - 130	11	25
Vinyl chloride			20.4	18.9		ppb v/v		93	70 - 130	2	25
Analyte			**Spike Added**	**LCSD Result**	**LCSD Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**	**RPD**	**RPD Limit**
cis-1,2-Dichloroethene			81	93.4		ug/m3		115	70 - 130	5	25
trans-1,2-Dichloroethene			80	87.8		ug/m3		110	70 - 130	3	25

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

Lab Sample ID: LCSD 320-42000/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 42000

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tetrachloroethene			130	169		ug/m3		127	70 - 130	5	25
Trichloroethene			110	141		ug/m3		128	70 - 130	11	25
Vinyl chloride			52	48.4		ug/m3		93	70 - 130	2	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 320-42186/7 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 42186

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			05/12/14 23:17	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			05/12/14 23:17	1
Tetrachloroethene	ND		0.40		ppb v/v			05/12/14 23:17	1
Trichloroethene	ND		0.40		ppb v/v			05/12/14 23:17	1
Vinyl chloride	ND		0.40		ppb v/v			05/12/14 23:17	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			05/12/14 23:17	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			05/12/14 23:17	1
Tetrachloroethene	ND		2.7		ug/m3			05/12/14 23:17	1
Trichloroethene	ND		2.1		ug/m3			05/12/14 23:17	1
Vinyl chloride	ND		1.0		ug/m3			05/12/14 23:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*05/12/14 23:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*05/12/14 23:17*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*05/12/14 23:17*	*1*

Lab Sample ID: LCS 320-42186/4 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 42186

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.4	22.5		ppb v/v		110	70 - 130		
trans-1,2-Dichloroethene			20.2	21.6		ppb v/v		107	70 - 130		
Tetrachloroethene			19.6	22.9		ppb v/v		117	70 - 130		
Trichloroethene			20.4	22.6		ppb v/v		111	70 - 130		
Vinyl chloride			20.4	19.5		ppb v/v		96	70 - 130		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			81	89.1		ug/m3		110	70 - 130		
trans-1,2-Dichloroethene			80	85.8		ug/m3		107	70 - 130		
Tetrachloroethene			130	155		ug/m3		117	70 - 130		
Trichloroethene			110	121		ug/m3		111	70 - 130		

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

Lab Sample ID: LCS 320-42186/4
Matrix: Air
Analysis Batch: 42186

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Vinyl chloride			52	49.9		ug/m3		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 320-42186/5
Matrix: Air
Analysis Batch: 42186

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene			20.4	22.2		ppb v/v		109	70 - 130	1	25
trans-1,2-Dichloroethene			20.2	21.3		ppb v/v		105	70 - 130	2	25
Tetrachloroethene			19.6	23.0		ppb v/v		117	70 - 130	1	25
Trichloroethene			20.4	22.8		ppb v/v		112	70 - 130	1	25
Vinyl chloride			20.4	18.6		ppb v/v		91	70 - 130	5	25
Analyte			**Spike Added**	**LCSD Result**	**LCSD Qualifier**	**Unit**	**D**	**%Rec**	**%Rec. Limits**	**RPD**	**RPD Limit**
cis-1,2-Dichloroethene			81	88.0		ug/m3		109	70 - 130	1	25
trans-1,2-Dichloroethene			80	84.4		ug/m3		105	70 - 130	2	25
Tetrachloroethene			130	156		ug/m3		117	70 - 130	1	25
Trichloroethene			110	122		ug/m3		112	70 - 130	1	25
Vinyl chloride			52	47.5		ug/m3		91	70 - 130	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Air - GC/MS VOA

Analysis Batch: 41830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7188-1	VW-03-05-VPT-042114	Total/NA	Air	TO-15	
320-7188-2	VW-03-30-VPT-042114	Total/NA	Air	TO-15	
320-7188-3	VW-03-55-VPT-042114	Total/NA	Air	TO-15	
320-7188-4	VW-03-85-VPT-042114	Total/NA	Air	TO-15	
320-7188-5	VW-04-05-VPT-042114	Total/NA	Air	TO-15	
320-7188-6	VW-04-30-VPT-042114	Total/NA	Air	TO-15	
320-7188-7	VW-04-55-VPT-042114	Total/NA	Air	TO-15	
320-7188-8	VW-04-85-VPT-042114	Total/NA	Air	TO-15	
320-7188-9	VW-04-85-VDT-042114	Total/NA	Air	TO-15	
320-7188-10	VW-05-05-VPT-042114	Total/NA	Air	TO-15	
320-7188-11	VW-05-30-VPT-042114	Total/NA	Air	TO-15	
LCS 320-41830/5	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-41830/19	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 320-41830/7	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 41910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7188-12	VW-05-55-VPT-042114	Total/NA	Air	TO-15	
320-7188-13	VW-05-85-VPT-042114	Total/NA	Air	TO-15	
320-7188-14	VW-06-05-VPT-042114	Total/NA	Air	TO-15	
320-7188-15	VW-06-30-VPT-042114	Total/NA	Air	TO-15	
320-7188-16	VW-06-55-VPT-042114	Total/NA	Air	TO-15	
320-7188-17	VW-06-85-VPT-042114	Total/NA	Air	TO-15	
320-7188-18	VW-01-05-VPT-042214	Total/NA	Air	TO-15	
320-7188-19	VW-01-30-VPT-042214	Total/NA	Air	TO-15	
320-7188-21	VW-01-85-VPT-042214	Total/NA	Air	TO-15	
320-7188-22	VW-01-85-VDT-042214	Total/NA	Air	TO-15	
LCS 320-41910/5	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-41910/24	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 320-41910/7	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 42000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7188-20	VW-01-55-VPT-042214	Total/NA	Air	TO-15	
320-7188-22	VW-01-85-VDT-042214	Total/NA	Air	TO-15	
320-7188-23	VW-02-05-VPT-042214	Total/NA	Air	TO-15	
320-7188-24	VW-02-30-VPT-042214	Total/NA	Air	TO-15	
320-7188-25	VW-02-55-VPT-042214	Total/NA	Air	TO-15	
320-7188-26	VW-02-85-VPT-042214	Total/NA	Air	TO-15	
320-7188-27	VW-07-05-VPT-042214	Total/NA	Air	TO-15	
320-7188-28	VW-07-30-VPT-042214	Total/NA	Air	TO-15	
320-7188-29	VW-07-55-VPT-042214	Total/NA	Air	TO-15	
320-7188-30	VW-07-85-VPT-042214	Total/NA	Air	TO-15	
320-7188-31	VML-01-190-VPT-042314	Total/NA	Air	TO-15	
320-7188-32	VML-01-170-VPT-042314	Total/NA	Air	TO-15	
320-7188-33	VML-01-170-VDT-042314	Total/NA	Air	TO-15	
320-7188-34	VML-01-150-VPT-042314	Total/NA	Air	TO-15	
320-7188-35	VML-01-130-VPT-042314	Total/NA	Air	TO-15	
320-7188-36	VML-02-190-VPT-042314	Total/NA	Air	TO-15	
320-7188-37	VML-02-170-VPT-042414	Total/NA	Air	TO-15	
320-7188-38	VML-02-150-VPT-042414	Total/NA	Air	TO-15	

Air - GC/MS VOA (Continued)

Analysis Batch: 42000 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7188-39	VML-02-130-VPT-042414	Total/NA	Air	TO-15	
320-7188-40	VML-02-130-VDT-042414	Total/NA	Air	TO-15	
LCS 320-42000/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-42000/5	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 320-42000/7	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 42186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-7188-17 - DL	VW-06-85-VPT-042114	Total/NA	Air	TO-15	
320-7188-31 - DL	VML-01-190-VPT-042314	Total/NA	Air	TO-15	
320-7188-35 - DL	VML-01-130-VPT-042314	Total/NA	Air	TO-15	
320-7188-37 - DL	VML-02-170-VPT-042414	Total/NA	Air	TO-15	
LCS 320-42186/4	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-42186/5	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 320-42186/7	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-03-05-VPT-042114 — Lab Sample ID: 320-7188-1

Date Collected: 04/21/14 11:16 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	610 mL	250 mL	41830	05/07/14 00:52	TAD	TAL SAC

Client Sample ID: VW-03-30-VPT-042114 — Lab Sample ID: 320-7188-2

Date Collected: 04/21/14 11:07 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	425 mL	250 mL	41830	05/07/14 01:50	TAD	TAL SAC

Client Sample ID: VW-03-55-VPT-042114 — Lab Sample ID: 320-7188-3

Date Collected: 04/21/14 10:56 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	540 mL	250 mL	41830	05/07/14 02:45	TAD	TAL SAC

Client Sample ID: VW-03-85-VPT-042114 — Lab Sample ID: 320-7188-4

Date Collected: 04/21/14 10:41 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	550 mL	250 mL	41830	05/07/14 03:41	TAD	TAL SAC

Client Sample ID: VW-04-05-VPT-042114 — Lab Sample ID: 320-7188-5

Date Collected: 04/21/14 14:05 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	540 mL	250 mL	41830	05/07/14 04:38	TAD	TAL SAC

Client Sample ID: VW-04-30-VPT-042114 — Lab Sample ID: 320-7188-6

Date Collected: 04/21/14 13:41 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5.98	85 mL	250 mL	41830	05/07/14 05:29	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-04-55-VPT-042114 — Lab Sample ID: 320-7188-7

Date Collected: 04/21/14 13:29 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.93	100 mL	250 mL	41830	05/07/14 06:19	TAD	TAL SAC

Client Sample ID: VW-04-85-VPT-042114 — Lab Sample ID: 320-7188-8

Date Collected: 04/21/14 13:11 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		8.31	65 mL	250 mL	41830	05/07/14 07:09	TAD	TAL SAC

Client Sample ID: VW-04-85-VDT-042114 — Lab Sample ID: 320-7188-9

Date Collected: 04/21/14 13:17 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5.73	100 mL	250 mL	41830	05/07/14 08:01	TAD	TAL SAC

Client Sample ID: VW-05-05-VPT-042114 — Lab Sample ID: 320-7188-10

Date Collected: 04/21/14 15:43 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	560 mL	250 mL	41830	05/07/14 08:57	TAD	TAL SAC

Client Sample ID: VW-05-30-VPT-042114 — Lab Sample ID: 320-7188-11

Date Collected: 04/21/14 15:26 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		29.3	20 mL	250 mL	41830	05/07/14 09:46	TAD	TAL SAC

Client Sample ID: VW-05-55-VPT-042114 — Lab Sample ID: 320-7188-12

Date Collected: 04/21/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.16	125 mL	250 mL	41910	05/08/14 00:37	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-05-85-VPT-042114 — Lab Sample ID: 320-7188-13

Date Collected: 04/21/14 14:57 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		73.4	7.5 mL	250 mL	41910	05/08/14 01:28	TAD	TAL SAC

Client Sample ID: VW-06-05-VPT-042114 — Lab Sample ID: 320-7188-14

Date Collected: 04/21/14 10:00 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	529 mL	250 mL	41910	05/08/14 02:25	TAD	TAL SAC

Client Sample ID: VW-06-30-VPT-042114 — Lab Sample ID: 320-7188-15

Date Collected: 04/21/14 09:52 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	501 mL	250 mL	41910	05/08/14 11:23	TAD	TAL SAC

Client Sample ID: VW-06-55-VPT-042114 — Lab Sample ID: 320-7188-16

Date Collected: 04/21/14 09:41 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	490 mL	250 mL	41910	05/08/14 04:10	TAD	TAL SAC

Client Sample ID: VW-06-85-VPT-042114 — Lab Sample ID: 320-7188-17

Date Collected: 04/21/14 09:28 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	523 mL	250 mL	41910	05/08/14 05:05	TAD	TAL SAC
Total/NA	Analysis	TO-15	DL	5.9	150 mL	250 mL	42186	05/13/14 09:45	TAD	TAL SAC

Client Sample ID: VW-01-05-VPT-042214 — Lab Sample ID: 320-7188-18

Date Collected: 04/22/14 17:14 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.16	125 mL	250 mL	41910	05/08/14 05:56	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-01-30-VPT-042214 — Lab Sample ID: 320-7188-19

Date Collected: 04/22/14 17:02 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		9.98	50 mL	250 mL	41910	05/08/14 06:47	TAD	TAL SAC

Client Sample ID: VW-01-55-VPT-042214 — Lab Sample ID: 320-7188-20

Date Collected: 04/22/14 16:48 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.43	125 mL	250 mL	42000	05/08/14 19:14	TAD	TAL SAC

Client Sample ID: VW-01-85-VPT-042214 — Lab Sample ID: 320-7188-21

Date Collected: 04/22/14 16:26 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	600 mL	250 mL	41910	05/08/14 08:35	TAD	TAL SAC

Client Sample ID: VW-01-85-VDT-042214 — Lab Sample ID: 320-7188-22

Date Collected: 04/22/14 16:33 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	542 mL	250 mL	41910	05/08/14 09:29	TAD	TAL SAC
Total/NA	Analysis	TO-15		1.51	625 mL	250 mL	42000	05/09/14 12:41	TAD	TAL SAC

Client Sample ID: VW-02-05-VPT-042214 — Lab Sample ID: 320-7188-23

Date Collected: 04/22/14 11:08 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	539 mL	250 mL	42000	05/08/14 20:10	TAD	TAL SAC

Client Sample ID: VW-02-30-VPT-042214 — Lab Sample ID: 320-7188-24

Date Collected: 04/22/14 10:58 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	544 mL	250 mL	42000	05/08/14 21:07	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VW-02-55-VPT-042214 — Lab Sample ID: 320-7188-25

Date Collected: 04/22/14 10:38 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	517 mL	250 mL	42000	05/08/14 23:06	TAD	TAL SAC

Client Sample ID: VW-02-85-VPT-042214 — Lab Sample ID: 320-7188-26

Date Collected: 04/22/14 10:27 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	539 mL	250 mL	42000	05/09/14 00:00	TAD	TAL SAC

Client Sample ID: VW-07-05-VPT-042214 — Lab Sample ID: 320-7188-27

Date Collected: 04/22/14 15:38 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		27.9	20 mL	250 mL	42000	05/09/14 00:50	TAD	TAL SAC

Client Sample ID: VW-07-30-VPT-042214 — Lab Sample ID: 320-7188-28

Date Collected: 04/22/14 15:28 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		110	5 mL	250 mL	42000	05/09/14 01:41	TAD	TAL SAC

Client Sample ID: VW-07-55-VPT-042214 — Lab Sample ID: 320-7188-29

Date Collected: 04/22/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1470	0.375 mL	250 mL	42000	05/09/14 02:31	TAD	TAL SAC

Client Sample ID: VW-07-85-VPT-042214 — Lab Sample ID: 320-7188-30

Date Collected: 04/22/14 15:01 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		556	1 mL	250 mL	42000	05/09/14 03:20	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VML-01-190-VPT-042314 — Lab Sample ID: 320-7188-31

Date Collected: 04/23/14 09:43 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		193	2.5 mL	250 mL	42000	05/09/14 04:11	TAD	TAL SAC
Total/NA	Analysis	TO-15	DL	483	1 mL	250 mL	42186	05/13/14 04:36	TAD	TAL SAC

Client Sample ID: VML-01-170-VPT-042314 — Lab Sample ID: 320-7188-32

Date Collected: 04/23/14 10:22 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2620	0.2 mL	250 mL	42000	05/09/14 05:01	TAD	TAL SAC

Client Sample ID: VML-01-170-VDT-042314 — Lab Sample ID: 320-7188-33

Date Collected: 04/23/14 10:27 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		3040	0.2 mL	250 mL	42000	05/09/14 05:51	TAD	TAL SAC

Client Sample ID: VML-01-150-VPT-042314 — Lab Sample ID: 320-7188-34

Date Collected: 04/23/14 14:43 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		961	0.625 mL	250 mL	42000	05/09/14 06:43	TAD	TAL SAC

Client Sample ID: VML-01-130-VPT-042314 — Lab Sample ID: 320-7188-35

Date Collected: 04/23/14 15:16 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		27.5	20 mL	250 mL	42000	05/09/14 07:33	TAD	TAL SAC
Total/NA	Analysis	TO-15	DL	55.1	10 mL	250 mL	42186	05/13/14 05:27	TAD	TAL SAC

Client Sample ID: VML-02-190-VPT-042314 — Lab Sample ID: 320-7188-36

Date Collected: 04/23/14 16:04 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		11000	0.05 mL	250 mL	42000	05/09/14 08:24	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Client Sample ID: VML-02-170-VPT-042414 — Lab Sample ID: 320-7188-37

Date Collected: 04/24/14 09:15 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10000	0.05 mL	250 mL	42000	05/09/14 09:13	TAD	TAL SAC
Total/NA	Analysis	TO-15	DL	12500	0.04 mL	250 mL	42186	05/13/14 06:16	TAD	TAL SAC

Client Sample ID: VML-02-150-VPT-042414 — Lab Sample ID: 320-7188-38

Date Collected: 04/24/14 09:49 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4950	0.1 mL	250 mL	42000	05/09/14 10:03	TAD	TAL SAC

Client Sample ID: VML-02-130-VPT-042414 — Lab Sample ID: 320-7188-39

Date Collected: 04/24/14 10:21 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2510	0.2 mL	250 mL	42000	05/09/14 10:54	TAD	TAL SAC

Client Sample ID: VML-02-130-VDT-042414 — Lab Sample ID: 320-7188-40

Date Collected: 04/24/14 10:27 — **Matrix: Air**
Date Received: 04/25/14 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		283	2 mL	250 mL	42000	05/09/14 11:45	TAD	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Laboratory: TestAmerica Sacramento

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

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2928-01	05-31-14 *
Alaska (UST)	State Program	10	UST-055	12-18-13 *
Arizona	State Program	9	AZ0708	08-11-14
Arkansas DEQ	State Program	6	88-0691	06-17-14
California	State Program	9	2897	01-31-15
Colorado	State Program	8	N/A	08-31-14
Connecticut	State Program	1	PH-0691	06-30-15
Florida	NELAP	4	E87570	06-30-14
Guam	State Program	9	N/A	08-31-14
Hawaii	State Program	9	N/A	01-29-15
Illinois	NELAP	5	200060	03-17-15
Kansas	NELAP	7	E-10375	10-31-14
Louisiana	NELAP	6	30612	06-30-14
Michigan	State Program	5	9947	01-31-15
Nebraska	State Program	7	NE-OS-22-13	01-29-15
Nevada	State Program	9	CA44	07-31-14
New Jersey	NELAP	2	CA005	06-30-14
New York	NELAP	2	11666	04-01-15
Pennsylvania	NELAP	3	9947	03-31-15
South Carolina	State Program	4	87014	06-30-14
Texas	NELAP	6	T104704399-08-TX	05-31-14
US Fish & Wildlife	Federal		LE148388-0	12-31-14
USDA	Federal		P330-11-00436	12-30-14
USEPA UCMR	Federal	1	CA00044	11-06-14
Utah	NELAP	8	QUAN1	02-28-15
West Virginia DHHR	State Program	3	9930C	12-31-14
Wyoming	State Program	8	8TMS-Q	02-28-14 *

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-7188-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-7188-1	VW-03-05-VPT-042114	Air	04/21/14 11:16	04/25/14 09:10
320-7188-2	VW-03-30-VPT-042114	Air	04/21/14 11:07	04/25/14 09:10
320-7188-3	VW-03-55-VPT-042114	Air	04/21/14 10:56	04/25/14 09:10
320-7188-4	VW-03-85-VPT-042114	Air	04/21/14 10:41	04/25/14 09:10
320-7188-5	VW-04-05-VPT-042114	Air	04/21/14 14:05	04/25/14 09:10
320-7188-6	VW-04-30-VPT-042114	Air	04/21/14 13:41	04/25/14 09:10
320-7188-7	VW-04-55-VPT-042114	Air	04/21/14 13:29	04/25/14 09:10
320-7188-8	VW-04-85-VPT-042114	Air	04/21/14 13:11	04/25/14 09:10
320-7188-9	VW-04-85-VDT-042114	Air	04/21/14 13:17	04/25/14 09:10
320-7188-10	VW-05-05-VPT-042114	Air	04/21/14 15:43	04/25/14 09:10
320-7188-11	VW-05-30-VPT-042114	Air	04/21/14 15:26	04/25/14 09:10
320-7188-12	VW-05-55-VPT-042114	Air	04/21/14 15:16	04/25/14 09:10
320-7188-13	VW-05-85-VPT-042114	Air	04/21/14 14:57	04/25/14 09:10
320-7188-14	VW-06-05-VPT-042114	Air	04/21/14 10:00	04/25/14 09:10
320-7188-15	VW-06-30-VPT-042114	Air	04/21/14 09:52	04/25/14 09:10
320-7188-16	VW-06-55-VPT-042114	Air	04/21/14 09:41	04/25/14 09:10
320-7188-17	VW-06-85-VPT-042114	Air	04/21/14 09:28	04/25/14 09:10
320-7188-18	VW-01-05-VPT-042214	Air	04/22/14 17:14	04/25/14 09:10
320-7188-19	VW-01-30-VPT-042214	Air	04/22/14 17:02	04/25/14 09:10
320-7188-20	VW-01-55-VPT-042214	Air	04/22/14 16:48	04/25/14 09:10
320-7188-21	VW-01-85-VPT-042214	Air	04/22/14 16:26	04/25/14 09:10
320-7188-22	VW-01-85-VDT-042214	Air	04/22/14 16:33	04/25/14 09:10
320-7188-23	VW-02-05-VPT-042214	Air	04/22/14 11:08	04/25/14 09:10
320-7188-24	VW-02-30-VPT-042214	Air	04/22/14 10:58	04/25/14 09:10
320-7188-25	VW-02-55-VPT-042214	Air	04/22/14 10:38	04/25/14 09:10
320-7188-26	VW-02-85-VPT-042214	Air	04/22/14 10:27	04/25/14 09:10
320-7188-27	VW-07-05-VPT-042214	Air	04/22/14 15:38	04/25/14 09:10
320-7188-28	VW-07-30-VPT-042214	Air	04/22/14 15:28	04/25/14 09:10
320-7188-29	VW-07-55-VPT-042214	Air	04/22/14 15:16	04/25/14 09:10
320-7188-30	VW-07-85-VPT-042214	Air	04/22/14 15:01	04/25/14 09:10
320-7188-31	VML-01-190-VPT-042314	Air	04/23/14 09:43	04/25/14 09:10
320-7188-32	VML-01-170-VPT-042314	Air	04/23/14 10:22	04/25/14 09:10
320-7188-33	VML-01-170-VDT-042314	Air	04/23/14 10:27	04/25/14 09:10
320-7188-34	VML-01-150-VPT-042314	Air	04/23/14 14:43	04/25/14 09:10
320-7188-35	VML-01-130-VPT-042314	Air	04/23/14 15:16	04/25/14 09:10
320-7188-36	VML-02-190-VPT-042314	Air	04/23/14 16:04	04/25/14 09:10
320-7188-37	VML-02-170-VPT-042414	Air	04/24/14 09:15	04/25/14 09:10
320-7188-38	VML-02-150-VPT-042414	Air	04/24/14 09:49	04/25/14 09:10
320-7188-39	VML-02-130-VPT-042414	Air	04/24/14 10:21	04/25/14 09:10
320-7188-40	VML-02-130-VDT-042414	Air	04/24/14 10:27	04/25/14 09:10

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Robert Boudra	**Samples Collected By:** Erin Lansey	COC No
Company Name: URS	**Phone:**		1 of 2 COCs
Address: 333 Wetmore Rd Suite 400	**Email:** Robert.Boudra@URS.com		
City/State/Zip: Tucson, AZ, 85705			**For Lab Use Only:**
Phone: 520 887 1800	**Site Contact:**		Walk-in Client:
FAX:	**TA Contact:**		Lab Sampling:
Project Name: Park Euclid	**Anaylsis Turnaround Time**		
Site/Location:	Standard (Specific):		Job / SDG No.
P O #	Rush (Specify)		(See below for Add'l Items)

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VW-03-05-VPT-042114	4/21/14	1110	1116	26"	2"	7232	34001803	X														
VW-03-30-VPT-042114	4/21/14	1101	1107	30"	8"	7209	7528	X														
VW-03-55-VPT-042114	4/21/14	1050	1056	30"+	9"	7770	7509	X														
VW-03-85-VPT-042114	4/21/14	1035	1041	27"	4"	7685	34001854	X														
VW-04-05-VPT-042114	4/21/14	1359	1405	30"	6"	7672	34001646	X														
VW-04-30-VPT-042114	4/21/14	1333	1341	27"	3"	7500	34001597	X														
VW-04-55-VPT-042114	4/21/14	1325	1329	28"	2"	7224	34000813	X														
VW-04-85-VPT-042114	4/21/14	1305	1311	23"	2"	7501	34001010	X														
VW-04-85-VDT-042114	4/21/14	1311	1317	25"	3"	7078	8290	X														
VW-05-05-VPT-042114	4/21/14	1538	1543	28"	3"	7266	34001224	X														

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

320-7188 Chain of Custody

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:** 4-24-14 1300	**Samples Received by:**	
Samples Relinquished by: Erin Lansey	**Date / Time:**	**Received by:** Jim Nelson	4/25/14 910
Relinquished by:	**Date / Time:** 4-24-14 1500	**Received by:**	
Lab Use Only: **Shipper Name:**	**Opened by:**	**Condition:**	

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Project Manager:** Robert Boudra	**Samples Collected By:** Erin Lansey	COC No
Company Name: URS	**Phone:**		2 of 2 COCs
Address: 333 Wetmore Rd Suite 400	**Email:** Robert.Boudra@URS.com		
City/State/Zip Tucson, AZ, 85705			**For Lab Use Only:**
Phone: 520 887 1800	**Site Contact:**		Walk-in Client
FAX:	**TA Contact:**		Lab Sampling:
Project Name Park Euclid	**Anaylsis Turnaround Time**		
Site/Location:	Standard (Specific):		Job / SDG No :
P O #	Rush (Specifiy):		(See below for Add'l Items)

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VW-05-30-VPT-042114	4/21/14	1521	1526	28"	4"		34001963	X														
VW-05-55-VPT-042114	4/21/14	1508	1516	27"	1"		34001117	X														
VW-05-85-VPT-042114	4/21/14	1452	1457	26"	3"		34000995	X														
VW-06-05-VPT-042114	4/21/14	0955	1000	27"	4"		34001747	X														
VW-06-30 VPT-042114	4/21/14	0946	0952	28"	4"		34001625	X														
VW-06-55-VPT-042114	4/21/14	0934	0941	30"+	9"		34000933	X														
VW-06-85-VPT-042114	4/21/14	0922	0928	28"	3"		34001790	X														

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:** 4-24-14 1300	**Samples Received by:**	
Samples Relinquished by:	**Date / Time:** 4-24-14 1300	**Received by:**	
Relinquished by:	**Date / Time:** 4-24-14 1500	**Received by:** Kim Nelson 4/25/14 910	
Lab Use Only: Shipper Name:	**Opened by:**	**Condition:**	

* CAN Soup 34001709 @ 4/25/14

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374.4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Robert Boudra	Samples Collected By: Erin Langey	COC No:
Company Name: URS	Phone:		1 of 2 COCs
Address: 333 Wetmore Rd. Suite 400	Email: Robert.Boudra@URS.com		
City/State/Zip Tucson, Az, 85705			For Lab Use Only:
Phone: 520 887 1800	Site Contact:		Walk-in Client
FAX:	TA Contact:		Lab Sampling:
Project Name: Park Euclid	Anaylsis Turnaround Time		
Site/Location	Standard (Specific):		Job / SDG No.:
P O #	Rush (Specifiy)		(See below for Add'l Items)

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VW-01-05-VPT-042214	4/22/14	1707	1714	29"	3"	7681	34001054	X														
VW-01-30-VPT-042214	4/22/14	1654	1702	26"	2"	7769	34000742	X														
VW-01-55-VPT-042214	4/22/14	1642	1648	26"	5"	7498	34001628	X														
VW-01-85-VPT-042214	4/22/14	1621	1626	26"	5"	7102	34001630	X														
VW-01-85-VDT-042214	4/22/14	1627	1633	27"	4"	7121	34001050	X														
VW-02-05-VPT-042214	4/22/14	1102	1108	27"	4"	7551	34001004	X														
VW-02-30-VPT-042214	4/22/14	1053	1058	26"	3"	7324	34001498	X														
VW-02-55-VPT-042214	4/22/14	1031	1038	29"	4"	7123	34000640	X														
VW-02-85-VPT-042214	4/22/14	1022	1027	26"	3"	7096	34000994	X														
VW-07-05-VPT-042214	4/22/14	1532	1538	26"	4"	7772	34001853	X														

	Temperature (Fahrenheit)			
	Start	Interior	Ambient	
	Stop			

	Temperature (Fahrenheit)			
	Start	Interior	Ambient	
	Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by: Erin Langey	Date / Time: 4-24-14 1300	Received by:	
Relinquished by:	Date / Time: 4-24-14 15:00	Received by: Kim Nelson 4/25/14 9:10	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374 4378 fax 916.372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Robert Boudra	Samples Collected By: Erin Lansey	COC No:
Company Name: IARS	Phone:		2 of 2 COCs
Address 333 Wetmore Rd Suite 400	Email: Robert.Boudra@iars.com		
City/State/Zip Tucson AZ 85705			For Lab Use Only:
Phone: 520 887 1800	Site Contact:		Walk-in Client
FAX:	TA Contact:		Lab Sampling
Project Name: Park Euclid	Anaylsis Turnaround Time		
Site/Location	Standard (Specific)		Job / SDG No..
P O #	Rush (Specify)		(See below for Add'l Items)

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VW-07-30-VPT-042214	4/22/14	1521	1528	24"	2"	7080	34001104	X														
VW-07-55-VPT-042214	4/22/14	1511	1516	26"	4"	7686	34001136	X														
VW-07-85-VPT-042214	4/22/14	1456	1501	27"	4"	7790	34001059	X														

4/22/14

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by:	Date / Time: 4-24-14 1300	Received by:	
Relinquished by:	Date / Time: 4-24-14 1500	Received by: 4/25/14 910	
Lab Use Only: Shipper Name:	Opened by:	Condition:	

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
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Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Robert Bondra	Samples Collected By: Erin Lansey	COC No:
Company Name: URS	Phone:		1 of 1 COCs
Address 3333 Wetmore Rd Suite 400	Email: robert.bondra@urs.com		
City/State/Zip Tucson AZ 85705			For Lab Use Only:
Phone: 520 887 1800	Site Contact:		Walk-in Client:
FAX:	TA Contact:		Lab Sampling:
Project Name Park Euclid	Anaylsis Turnaround Time		
Site/Location	Standard (Specific):		Job / SDG No..
P O #	Rush (Specifiy):		(See below for Add'l Items)

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
VML-01-190-VPT-042314	4/23/14	0939	0943	26"	2"	7133	34000906	X														
VML-01-170-VPT-042314	4/23/14	1015	1022	30"	4"	7376	34000909	X														
VML-01-170-VDT-042314	4/23/14	1022	1027	26"	4"	7325	34000959	X														
VML-01-150-VPT-042314	4/23/14	1438	1443	27"	4"	7222	34000748	X														
VML-01-130-VPT-042314	4/23/14	1509	1516	25"	2"	7504	34001064	X														
VML-02-190-VPT-042314	4/23/14	1528	1604	28"	4"	7687	34001596	X														
VML-02-170-VPT-042414	4/24/14	0910	0915	29"	4"	7781	34001190	X														
VML-02-150-VPT-042414	4/24/14	0945	0949	26"	2"	7087	34000673	X														
VML-02-130-VPT-042414	4/24/14	1015	1021	28"	2"	7287	34001598	X														
VML-02-130-VDT-042414	4/24/14	1022	1027	27"	4"	7315	34000329	X														

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

	Temperature (Fahrenheit)		
Start	Interior	Ambient	
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:
Samples Relinquished by: Erin Lansey	Date / Time: 4-24-14 1300	Received by:
Relinquished by:	Date / Time: 4-24-14 1500	Received by: Tom Nelson 4/25/14 910
Lab Use Only: Shipper Name:	Opened by:	Condition:

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

* TAS Sample VML-02-85-VPT-042314 @ 4/25/14
** TAS Sample VML-02-130-VPT-042314 @ 4/25/14

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 1

Client/Project:		VFR ID:		
Canister Serial #:	34001803	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	10.31	04/28/14	EP
FINAL PRESSURE (PSIA)	25.17	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.44			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.44		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.44	X	Load DF =	0.4098361	X	Bag DF =	1	=	FINAL DF 1.000540618		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	610		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.44	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.44	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 2

Client/Project:		VFR ID:		
Canister Serial #:	7538	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	14.90	04/28/14	EP
FINAL PRESSURE (PSIA)	25.39	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.70			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.70		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	1.70	X	Load DF =	0.5882353	X	Bag DF =	1	=	FINAL DF 1.002368733		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	425		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.70	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.70	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 3

Client/Project:		VFR ID:		
Canister Serial #:	7509	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.70	04/28/14	EP
FINAL PRESSURE (PSIA)	25.27	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.16	X	Load DF =	0.462963	X	Bag DF =	1	=	FINAL DF 0.999920861		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	540		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 4

Client/Project:		VFR ID:		
Canister Serial #:	34001854	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.45	04/28/14	EP
FINAL PRESSURE (PSIA)	25.15	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.20			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.20		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.20	X	Load DF =	0.4545455	X	Bag DF =	1	=	FINAL DF 0.998412068		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	550		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.20	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.20	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 5

Client/Project:		VFR ID:		
Canister Serial #:	34001646	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.45	04/28/14	EP
FINAL PRESSURE (PSIA)	24.74	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.16	X	Load DF =	0.462963	X	Bag DF =	1	=	FINAL DF 1.000323468		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	540		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 6

Client/Project:		VFR ID:		
Canister Serial #:	34001597	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.27	04/28/14	EP
FINAL PRESSURE (PSIA)	24.97	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.04			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.04		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.04	X	Load DF =	2.9411765	X	Bag DF =	1	=	FINAL DF 5.985425955		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	85		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.04	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.04	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 7

Client/Project:		VFR ID:		
Canister Serial #:	34000813	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.74	04/28/14	EP
FINAL PRESSURE (PSIA)	25.11	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.97			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.97		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	1.97	X	Load DF =	2.5	X	Bag DF =	1	=	FINAL DF 4.927394035		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	100		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.97	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.97	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 8

Client/Project:		VFR ID:		
Canister Serial #:	8290	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.64	04/28/14	EP
FINAL PRESSURE (PSIA)	25.16	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.16	X	Load DF =	3.8461538	X	Bag DF =	1	=	FINAL DF 8.313507798		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	65		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 9

Client/Project:		VFR ID:		
Canister Serial #:	34001010	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	10.95	04/28/14	EP
FINAL PRESSURE (PSIA)	25.08	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.29			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.29		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.29	X	Load DF =	2.5	X	Bag DF =	1	=	FINAL DF 5.726027397		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	100		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.29	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.29	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 10

Client/Project:		VFR ID:		
Canister Serial #:	34001224	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.14	04/28/14	EP
FINAL PRESSURE (PSIA)	25.00	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.24			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.24		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/6/2014	ATMS7			
Canister DF =	2.24	X	Load DF =	0.4464286	X	Bag DF =	1	=	FINAL DF 1.001859451		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	560		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.24	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.24	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 11

Client/Project:		VFR ID:		
Canister Serial #:	34001963	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	10.73	04/28/14	EP
FINAL PRESSURE (PSIA)	25.12	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.34			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.34		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								5/6/2014	ATMS7		
Canister DF =	2.34	X	Load DF =	12.5	X	Bag DF =	1	=		FINAL DF	29.26374651
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	20		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.34	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.34	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 12

Client/Project:		VFR ID:		
Canister Serial #:	34001117	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.03	04/28/14	EP
FINAL PRESSURE (PSIA)	25.05	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.08			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.08		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.08	X	Load DF =	2	X	Bag DF =	1	=	FINAL DF 4.164588529		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	125		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.08	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.08	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 13

Client/Project:		VFR ID:		
Canister Serial #:	34000995	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.30	04/28/14	EP
FINAL PRESSURE (PSIA)	24.90	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.20			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.20		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.20	X	Load DF =	1.6666667	X	Bag DF =	20	=	FINAL DF 73.45132743		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	150		Bvi (mLs)	50				
							Date	Instr.	File #		
Canister DF =	2.20	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.20	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 14

Client/Project:		VFR ID:		
Canister Serial #:	34001747	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.87	04/28/14	EP
FINAL PRESSURE (PSIA)	25.14	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.12			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.12		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.12	X	Load DF =	0.4725898	X	Bag DF =	1	=	FINAL DF 1.000918902		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	529		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.12	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.12	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 15

Client/Project:		VFR ID:		
Canister Serial #:	34001625	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.33	04/28/14	EP
FINAL PRESSURE (PSIA)	24.73	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.01			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.01		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #	
							5/7/2014	MS7		
Canister DF =	2.01	X	Load DF =	3.3333333	X	Bag DF =	1	=	FINAL DF	6.6855907
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	75		Bvi (mLs)				
							Date	Instr.	File #	
							5/8/2014	MS7		
Canister DF =	2.01	X	Load DF =	0.499002	X	Bag DF =	1	=	FINAL DF	1.000836931
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	501		Bvi (mLs)				
							Date	Instr.	File #	
Canister DF =	2.01	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 16

Client/Project:		VFR ID:		
Canister Serial #:	34000933	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.75	04/28/14	EP
FINAL PRESSURE (PSIA)	25.01	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.96			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.96		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	1.96	X	Load DF =	0.5102041	X	Bag DF =	1	=	FINAL DF 1.00080032		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	490		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.96	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.96	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 17

Client/Project:		VFR ID:		
Canister Serial #:	34001709	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.20	04/28/14	EP
FINAL PRESSURE (PSIA)	25.55	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.09			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
05/12/14	14.62	24.82	2.09	SRS for MC	3.56
			3.56		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #	
							5/7/2014	MS7		
Canister DF =	2.09	X	Load DF =	0.4780115	X	Bag DF =	1	=	FINAL DF	1.001081403
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	523		Bvi (mLs)				
							Date	Instr.	File #	
							5/12/2014	MS7		
Canister DF =	3.56	X	Load DF =	0.3333333	X	Bag DF =	1	=	FINAL DF	1.185125175
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	750		Bvi (mLs)				
							Date	Instr.	File #	
							5/13/2014	MS7		
Canister DF =	3.56	X	Load DF =	1.6666667	X	Bag DF =	1	=	FINAL DF	5.925625874
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	150		Bvi (mLs)				

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 18

Client/Project:		VFR ID:		
Canister Serial #:	34001054	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.07	04/28/14	EP
FINAL PRESSURE (PSIA)	25.10	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.08			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.08		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.08	X	Load DF =	2	X	Bag DF =	1	=	FINAL DF 4.15907208		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	125		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.08	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.08	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 19

Client/Project:		VFR ID:		
Canister Serial #:	34000742	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.54	04/28/14	EP
FINAL PRESSURE (PSIA)	25.02	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.00			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.00		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.00	X	Load DF =	5	X	Bag DF =	1	=	FINAL DF 9.976076555		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	50		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.00	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.00	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 20

Client/Project:		VFR ID:		
Canister Serial #:	34001628	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.36	04/28/14	EP
FINAL PRESSURE (PSIA)	25.16	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.21			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.21		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.21	X	Load DF =	5	X	Bag DF =	1	=	FINAL DF 11.07394366		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	50		Bvi (mLs)					
							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.21	X	Load DF =	2	X	Bag DF =	1	=	FINAL DF 4.429577465		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	125		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.21	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 21

Client/Project:		VFR ID:		
Canister Serial #:	34001630	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	10.40	04/28/14	EP
FINAL PRESSURE (PSIA)	24.97	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.40			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.40		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/7/2014	MS7			
Canister DF =	2.40	X	Load DF =	0.4166667	X	Bag DF =	1	=	FINAL DF	1.000400641
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	600		Bvi (mLs)				
							Date	Instr.	File #		
Canister DF =	2.40	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				
							Date	Instr.	File #		
Canister DF =	2.40	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 22

Client/Project:		VFR ID:		
Canister Serial #:	34001050	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.51	04/28/14	EP
FINAL PRESSURE (PSIA)	24.99	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.17			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
05/09/14	14.82	25.82	2.17	LHS	3.78
			3.78		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #	
							5/7/2014	MS7		
Canister DF =	2.17	X	Load DF =	0.4612546	X	Bag DF =	1	=	FINAL DF	1.001455497
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	542		Bvi (mLs)				
							Date	Instr.	File #	
							5/9/2014	MS7		
Canister DF =	3.78	X	Load DF =	0.4	X	Bag DF =	1	=	FINAL DF	1.513069783
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	625		Bvi (mLs)				
							Date	Instr.	File #	
Canister DF =	2.17	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 23

Client/Project:		VFR ID:		
Canister Serial #:	34001004	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.59	04/28/14	EP
FINAL PRESSURE (PSIA)	25.01	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.16	X	Load DF =	0.4638219	X	Bag DF =	1	=	FINAL DF 1.00087882		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	539		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 24

Client/Project:		VFR ID:		
Canister Serial #:	34001498	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.49	04/28/14	EP
FINAL PRESSURE (PSIA)	25.04	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.18			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.18		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.18	X	Load DF =	0.4595588	X	Bag DF =	1	=	FINAL DF 1.001510265		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	544		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.18	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.18	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 25

Client/Project:		VFR ID:		
Canister Serial #:	34000640	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.13	04/28/14	EP
FINAL PRESSURE (PSIA)	25.11	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.07			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.07		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.07	X	Load DF =	0.483559	X	Bag DF =	1	=	FINAL DF 1.001002996		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	517		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.07	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.07	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 26

Client/Project:		VFR ID:		
Canister Serial #:	34000994	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.58	04/28/14	EP
FINAL PRESSURE (PSIA)	25.00	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								5/8/2014	MS7		
Canister DF =	2.16	X	Load DF =	0.4638219	X	Bag DF =	1	=	FINAL DF	1.0013426	
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	539		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 27

Client/Project:		VFR ID:		
Canister Serial #:	34001853	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.21	04/28/14	EP
FINAL PRESSURE (PSIA)	25.05	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.23			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.23		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								5/8/2014	MS7		
Canister DF =	2.23	X	Load DF =	12.5	X	Bag DF =	1	=		FINAL DF	27.93264942
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	20		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.23	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.23	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 28

Client/Project:		VFR ID:		
Canister Serial #:	34001104	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.35	04/28/14	EP
FINAL PRESSURE (PSIA)	24.99	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.20			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.20		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.20	X	Load DF =	2.5	X	Bag DF =	20	=	FINAL DF 110.0881057		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	100		Bvi (mLs)	50				
							Date	Instr.	File #		
Canister DF =	2.20	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.20	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 29

Client/Project:		VFR ID:		
Canister Serial #:	34001136	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.32	04/28/14	EP
FINAL PRESSURE (PSIA)	25.02	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.21			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.21		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								5/8/2014	MS7		
Canister DF =	2.21	X	Load DF =	3.3333333	X	Bag DF =	200	=	FINAL DF	1473.498233	
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	75		Bvi (mLs)	5				
								Date	Instr.	File #	
Canister DF =	2.21	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.21	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!	
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 30

Client/Project:		VFR ID:		
Canister Serial #:	34001059	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.27	04/28/14	EP
FINAL PRESSURE (PSIA)	25.06	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.22			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.22		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.22	X	Load DF =	5	X	Bag DF =	50	=	FINAL DF 555.9006211		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	50		Bvi (mLs)	20				
							Date	Instr.	File #		
Canister DF =	2.22	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.22	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 31

Client/Project:		VFR ID:		
Canister Serial #:	34000906	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.96	04/28/14	EP
FINAL PRESSURE (PSIA)	25.05	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.93			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.93		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			FINAL DF
Canister DF =	1.93	X	Load DF =	5	X	Bag DF =	20	=	193.287037
			LVf (mLs)	250		BVf (mLs)	1000		
			LVi (mLs)	50		Bvi (mLs)	50		
							Date	Instr.	File #		
							5/9/2014	MS7			FINAL DF
Canister DF =	1.93	X	Load DF =	5	X	Bag DF =	100	=	966.4351852
			LVf (mLs)	250		BVf (mLs)	1000		
			LVi (mLs)	50		Bvi (mLs)	10		
							Date	Instr.	File #		
							5/12/2014	MS7			FINAL DF
Canister DF =	1.93	X	Load DF =	2.5	X	Bag DF =	100	=	483.2175926
			LVf (mLs)	250		BVf (mLs)	1000		
			LVi (mLs)	100		Bvi (mLs)	10		

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CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 32

Client/Project:		VFR ID:		
Canister Serial #:	34000909	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.94	04/28/14	EP
FINAL PRESSURE (PSIA)	24.98	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.09			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.09		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.09	X	Load DF =	6.25	X	Bag DF =	200	=	FINAL DF 2615.159129		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	40		Bvi (mLs)	5				
							Date	Instr.	File #		
Canister DF =	2.09	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.09	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 33

Client/Project:		VFR ID:		
Canister Serial #:	34000759	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	10.32	04/28/14	EP
FINAL PRESSURE (PSIA)	25.08	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.43			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.43		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.43	X	Load DF =	6.25	X	Bag DF =	200	=	FINAL DF 3037.790698		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	40		Bvi (mLs)	5				
							Date	Instr.	File #		
Canister DF =	2.43	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.43	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 34

Client/Project:		VFR ID:		
Canister Serial #:	34000748	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	10.41	04/28/14	EP
FINAL PRESSURE (PSIA)	25.00	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.40			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.40		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.40	X	Load DF =	2	X	Bag DF =	200	=	FINAL DF 960.6147935		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	125		Bvi (mLs)	5				
							Date	Instr.	File #		
Canister DF =	2.40	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.40	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 35

Client/Project:		VFR ID:		
Canister Serial #:	34001064	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.37	04/28/14	EP
FINAL PRESSURE (PSIA)	25.05	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.20			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.20		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.20	X	Load DF =	12.5	X	Bag DF =	1	=	FINAL DF 27.53957784		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	20		Bvi (mLs)					
							Date	Instr.	File #		
							5/9/2014	MS7			
Canister DF =	2.20	X	Load DF =	5	X	Bag DF =	10	=	FINAL DF 110.1583113		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	50		Bvi (mLs)	100				
							Date	Instr.	File #		
							5/12/2014	ms7			
Canister DF =	2.20	X	Load DF =	2.5	X	Bag DF =	10	=	FINAL DF 55.07915567		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	100		Bvi (mLs)	100				

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 36

Client/Project:		VFR ID:		
Canister Serial #:	34001596	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.38	04/28/14	EP
FINAL PRESSURE (PSIA)	24.96	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.19			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.19		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	2.19	X	Load DF =	5	X	Bag DF =	1000	=	FINAL DF 10966.60808		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	50		Bvi (mLs)	1				
							Date	Instr.	File #		
Canister DF =	2.19	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.19	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

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THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 37

Client/Project:		VFR ID:		
Canister Serial #:	34001190	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.49	04/28/14	EP
FINAL PRESSURE (PSIA)	25.05	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.01			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.01		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			FINAL DF
Canister DF =	2.01	X	Load DF =	5	X	Bag DF =	1000	=	10028.02242
			LVf (mLs)	250		BVf (mLs)	1000		
			LVi (mLs)	50		Bvi (mLs)	1		
							Date	Instr.	File #		
							5/9/2014	MS7			FINAL DF
Canister DF =	2.01	X	Load DF =	12.5	X	Bag DF =	1000	=	25070.05604
			LVf (mLs)	250		BVf (mLs)	1000		
			LVi (mLs)	20		Bvi (mLs)	1		
							Date	Instr.	File #		
							5/12/2014	ATMS7			FINAL DF
Canister DF =	2.01	X	Load DF =	6.25	X	Bag DF =	1000	=	12535.02802
			LVf (mLs)	250		BVf (mLs)	1000		
			LVi (mLs)	40		Bvi (mLs)	1		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 38

Client/Project:		VFR ID:		
Canister Serial #:	34000643	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.67	04/28/14	EP
FINAL PRESSURE (PSIA)	25.08	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 1.98			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			1.98		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							5/8/2014	MS7			
Canister DF =	1.98	X	Load DF =	2.5	X	Bag DF =	1000	=	FINAL DF 4948.697711		
			LVf (mLs)	250		BVf (mLs)	1000				
			LVi (mLs)	100		Bvi (mLs)	1				
							Date	Instr.	File #		
Canister DF =	1.98	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	1.98	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 39

Client/Project:		VFR ID:		
Canister Serial #:	34001598	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.44	04/28/14	EP
FINAL PRESSURE (PSIA)	25.01	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.01			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.01		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #	
							5/8/2014	MS7		
Canister DF =	2.01	X	Load DF =	1.25	X	Bag DF =	1000	=	FINAL DF	2513.062701
			LVf (mLs)	250		BVf (mLs)	1000			
			LVi (mLs)	200		Bvi (mLs)	1			
							Date	Instr.	File #	
Canister DF =	2.01	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				
							Date	Instr.	File #	
Canister DF =	2.01	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-7188
Sample # 40

Client/Project:		VFR ID:		
Canister Serial #:	34000329	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.12	04/28/14	EP
FINAL PRESSURE (PSIA)	25.16	04/28/14	EP
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.26			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.26		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #	
							5/8/2014	MS7		
Canister DF =	2.26	X	Load DF =	1.25	X	Bag DF =	100	=	FINAL DF	282.823741
			LVf (mLs)	250		BVf (mLs)	1000			
			LVi (mLs)	200		Bvi (mLs)	10			
							Date	Instr.	File #	
Canister DF =	2.26	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				
							Date	Instr.	File #	
Canister DF =	2.26	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 320-7188-1

Login Number: 7188

List Source: TestAmerica Sacramento

List Number: 1

Creator: Nelson, Kym D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

320-6717 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification

Certification Type: TO15 SCAN

Date Cleaned/Batch ID 3/24/14 320-6717

Date of QC 3/27/14

Data File Number MS7032705

CANISTER ID NUMBERS

34001497	34000905	
1117	1848	
0813 *	1688	
0230	1748	
1023		
1010		
0771		
1190		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: Date: 3/28/14

2nd level Reviewed By: Date: 3/31/14

Q:\FORMS\QA-814 CAN QC CERT 20130729.DOC
QA-814 *ERS 7/29/2013*

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

Certification Type: TO15 SCAN

Date Cleaned/Batch ID: 3/18/14 320-6761

Date of QC: 3/27/14 ; 3/28/14

320-6761 Chain of Custody

Canister ID	Filename	Canister ID	Filename
34001597	MS7032809		
0986	—		
0985	—		
1050	MS7032710		
1963	MS7032711		
1498	MS7032712		
0983	MS7032713		
0640	MS7032804		
1853	MS7032805		
0759	MS7032806		
1246	—		
0234	MS7032808		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

1st level Reviewed By: [signature] Date: 3/29/14

2nd level Reviewed By: [signature] Date: 3/30/14

Q:\FORMS\QA-821 IND CAN QC 20130729.DOC
QA-821

ERS 7/29/2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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320-6793 Chain of Custody

Certification Type: TO15 SCAN

Date Cleaned/Batch ID: 3/19/14 320-6793

Date of QC: 03/29/14 ; 03/31/14

Canister ID	Filename	Canister ID	Filename
34000906	MS703290 6	39001596	MS6703292 1
1064	10	0931	
0653	11	0748	MS703313
1054	12	1965	14
1059	13		
0756	14		
0329	15		
0643	16		
1085	17		
1650			
1630	MS703291 9		
0909	20		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

1st level Reviewed By — Date: 4/1/14

2nd level Reviewed By — Date: 4/1/14

Q:\FORMS\QA-821 IND CAN QC 20130729.DOC
QA-821

ERS 7/29/2013

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento
Canister QC Certification
Individual Certification

Certification Type: TO-15

Date Cleaned/Batch ID: 03-13-14 320-6800

Date of QC: 3/29/14

320-6800 Chain of Custody

Canister ID	Filename	Canister ID	Filename
34001136	MS5032905		
0994	MS5032906		
1795	—		
1004	MS5032908		
1230	MS5032909		
8290	MS5032910		
34001747	MS5032911		
1854	MS5032912		
1874	—		
1709	MS5032914		
1803	MS5032915		
9509	MS5032916		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

1st level Reviewed By: _____ Date: 3/31/14

2nd level Reviewed By: _____ Date: 4/1/14

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QA-821

ERS 7/29/2013

320-6850 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

Canister QC Certification

Certification Type: TO15 8CAN

Date Cleaned/Batch ID: 3/31/14 320-6850

Date of QC: 4/2/14

Data File Number: MS70402 11

CANISTER ID NUMBERS

34001646	34000970	
0742	1224	
1628	0929	
1598*	7538	
1104		
1057		
0995		
0739		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: _____ Date: 4/3/14

2nd level Reviewed By: _____ Date: 4/3/14

Q:\FORMS\QA-814 CAN QC CERT 20130729.DOC
QA-814

ERS 7/29/2013

320-6903 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

Canister QC Certification

Certification Type: TO15 SCAN

Date Cleaned/Batch ID: 4/4/14 320-6903

Date of QC: 4/4/14

Data File Number: M07040407

CANISTER ID NUMBERS

34000860	34002173*	
0681	1220	
0735	1946	
0644	8318	
0933		
8319		
34001099		
1625		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: [signature] Date: 4/7/14

2nd level Reviewed By: [signature] Date: 4/7/2014

Q:\FORMS\QA-814 CAN QC CERT 20130729.DOC
QA-814 *ERS 7/29/2013*

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6717-1

SDG No.:

Client Sample ID: 34000813 | Lab Sample ID: 320-6717-3

Matrix: Air | Lab File ID: MS7032705.d

Analysis Method: TO-15 | Date Collected: 03/24/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/27/2014 15:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.44	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6717-1

SDG No.:

Client Sample ID: 34000813 | Lab Sample ID: 320-6717-3

Matrix: Air | Lab File ID: MS7032705.d

Analysis Method: TO-15 | Date Collected: 03/24/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/27/2014 15:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6717-1

SDG No.:

Client Sample ID: 34000813 Lab Sample ID: 320-6717-3

Matrix: Air Lab File ID: MS7032705.d

Analysis Method: TO-15 Date Collected: 03/24/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/27/2014 15:55

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39177 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032705.d				
Lims ID:	320-6717-A-3	Lab Sample ID:	320-6717-3		
Client ID:	34000813				
Sample Type:	Client				
Inject. Date:	27-Mar-2014 15:55:30	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6717-3				
Misc. Info.:	500mL; 34000813				
Operator ID:	AO	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	28-Mar-2014 11:35:41	Calib Date:	27-Mar-2014 14:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032703.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: ortizam		Date:	28-Mar-2014 11:35:01		

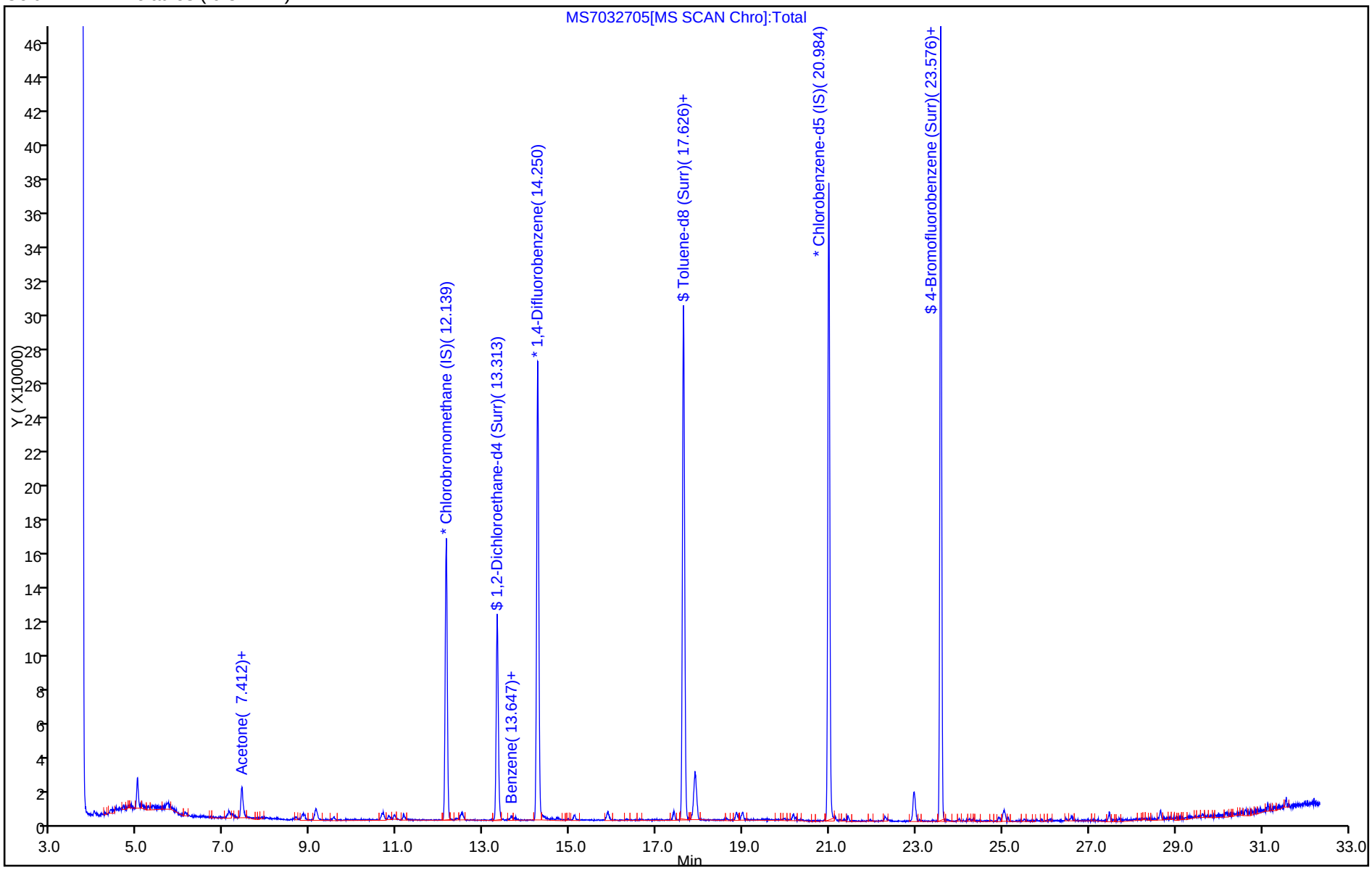
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.139	12.133	0.006	89	87453	4.00	
* 2 1,4-Difluorobenzene	114	14.250	14.244	0.006	90	346867	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.978	0.006	87	328267	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.313	13.313	0.0	0	151414	3.95	
$ 5 Toluene-d8 (Surr)	100	17.626	17.620	0.006	89	229156	4.01	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.570	0.006	90	245140	3.83	
14 Propene	41	3.993	3.993	0.0	68	1486	0.0280	
31 Acetone	43	7.406	7.418	-0.012	96	42863	0.4382	
68 Benzene	78	13.629	13.641	-0.012	22	4406	0.0279	

Report Date: 28-Mar-2014 11:35:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032705.d				
Injection Date:	27-Mar-2014 15:55:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6717-A-3	Lab Sample ID:	320-6717-3	Worklist Smp#:	5
Client ID:	34000813				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

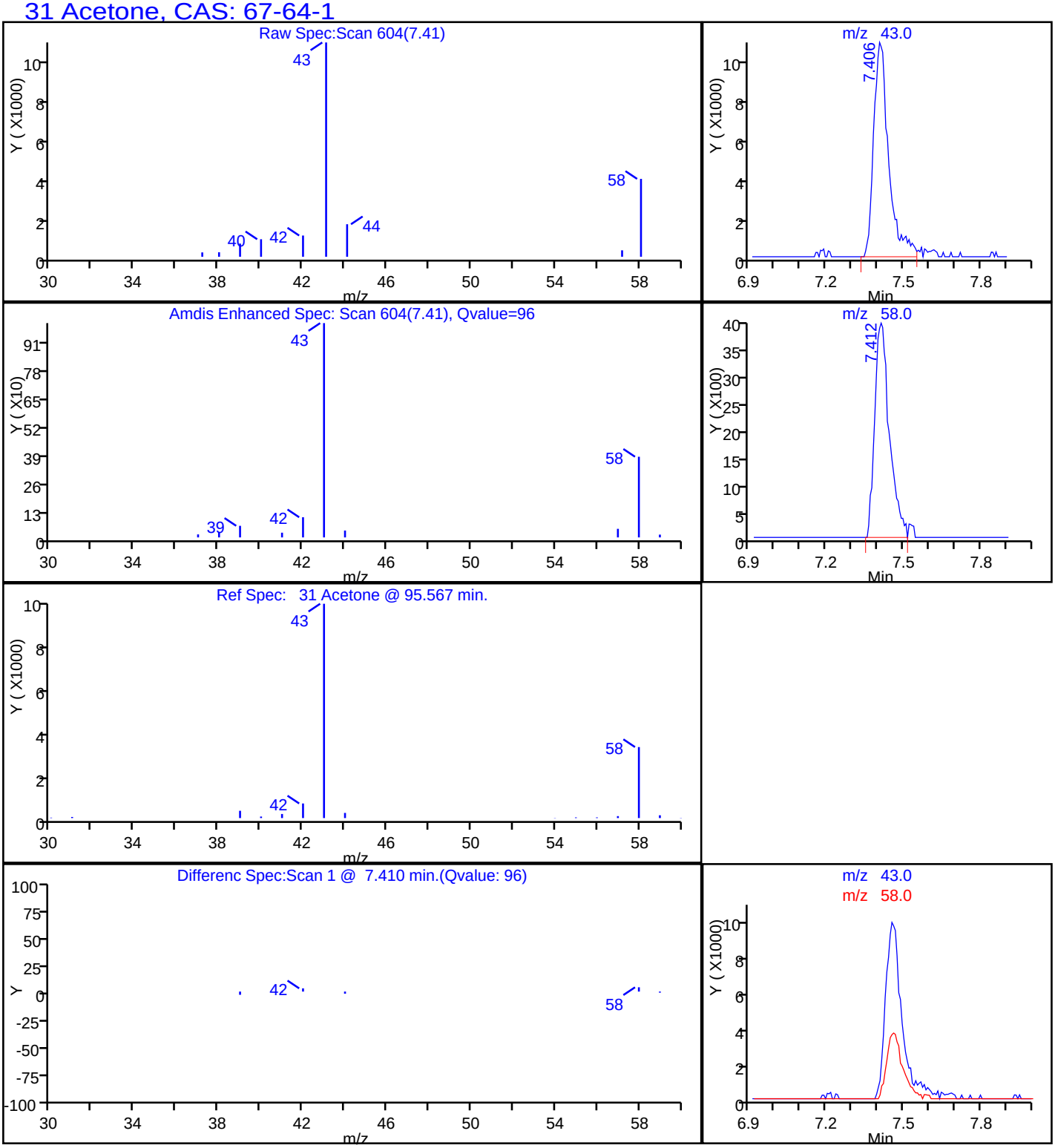


Report Date: 28-Mar-2014 11:35:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032705.d				
Injection Date:	27-Mar-2014 15:55:30	Instrument ID:	ATMS7		
Lims ID:	320-6717-A-3	Lab Sample ID:	320-6717-3		
Client ID:	34000813				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001597 | Lab Sample ID: 320-6761-1

Matrix: Air | Lab File ID: MS7032809.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 22:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	3.5	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001597 Lab Sample ID: 320-6761-1

Matrix: Air Lab File ID: MS7032809.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 22:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39284 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001597 Lab Sample ID: 320-6761-1

Matrix: Air Lab File ID: MS7032809.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 22:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39284 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032809.d
Lims ID: 320-6761-A-1 Lab Sample ID: 320-6761-1
Client ID: 34001597
Sample Type: Client
Inject. Date: 28-Mar-2014 22:28:30 ALS Bottle#: 13 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6761-1
Misc. Info.: 500mL; 34001597
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 29-Mar-2014 11:09:01 Calib Date: 28-Mar-2014 15:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032802.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: ortizam Date: 29-Mar-2014 11:11:09

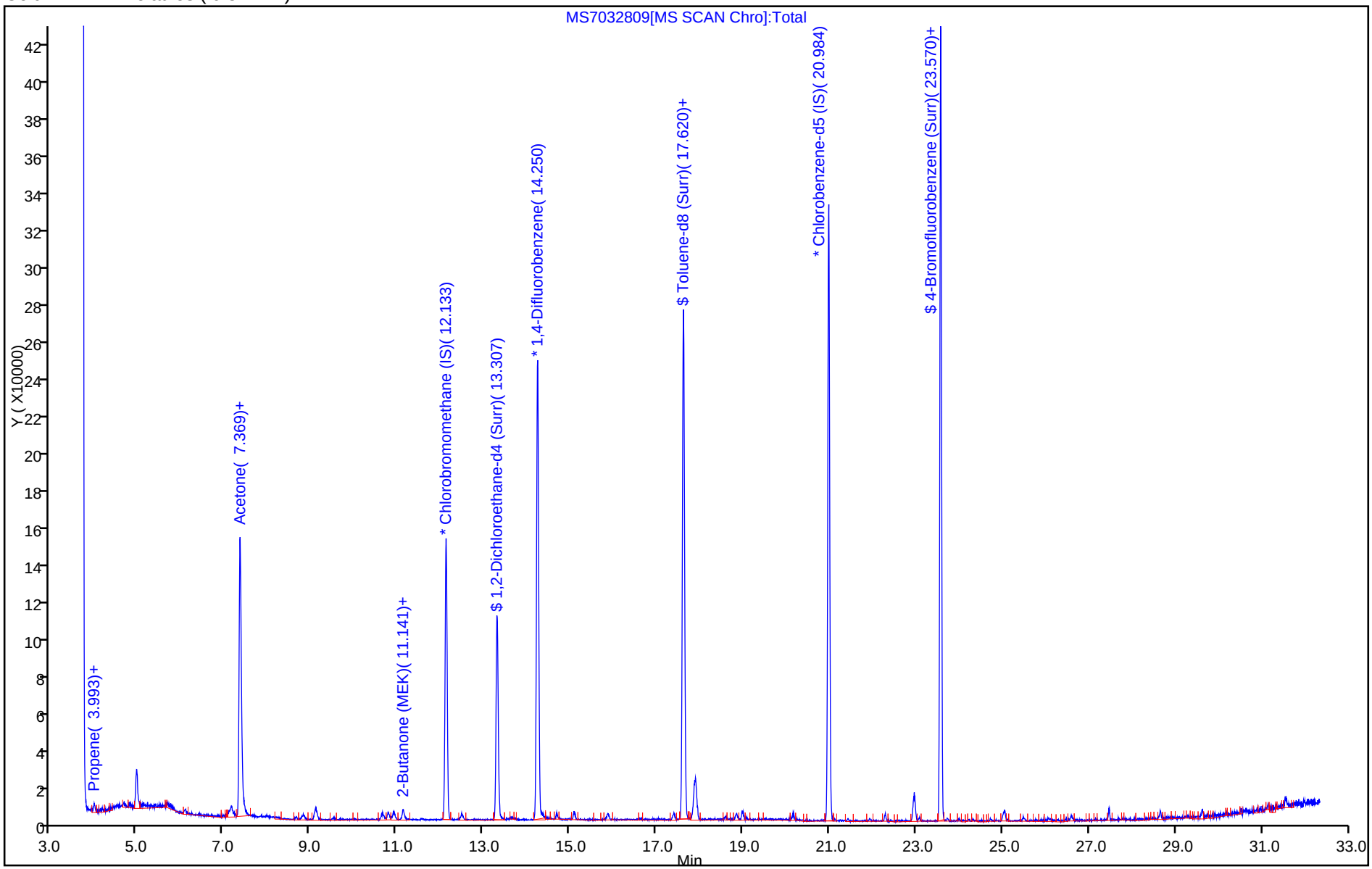
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.133	12.126	0.007	91	79600	4.00	
* 2 1,4-Difluorobenzene	114	14.250	14.250	0.0	90	321209	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.990	-0.006	87	298348	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.313	13.313	0.0	0	143793	3.98	
$ 5 Toluene-d8 (Surr)	100	17.620	17.632	-0.012	88	214074	4.01	
$ 6 4-Bromofluorobenzene (Surr)	95	23.570	23.576	-0.006	89	221491	3.81	
14 Propene	41	4.005	3.962	0.043	91	2828	0.0560	
18 Chloromethane	50	4.516	4.467	0.049	28	1590	0.0316	
29 Acrolein	56	7.229	7.217	0.012	25	794	0.0427	
31 Acetone	43	7.363	7.375	-0.012	97	380711	3.54	
54 2-Butanone (MEK)	72	11.147	11.135	0.012	92	2106	0.1215	

Report Date: 29-Mar-2014 11:11:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032809.d				
Injection Date:	28-Mar-2014 22:28:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-1	Lab Sample ID:	320-6761-1	Worklist Smp#:	9
Client ID:	34001597				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

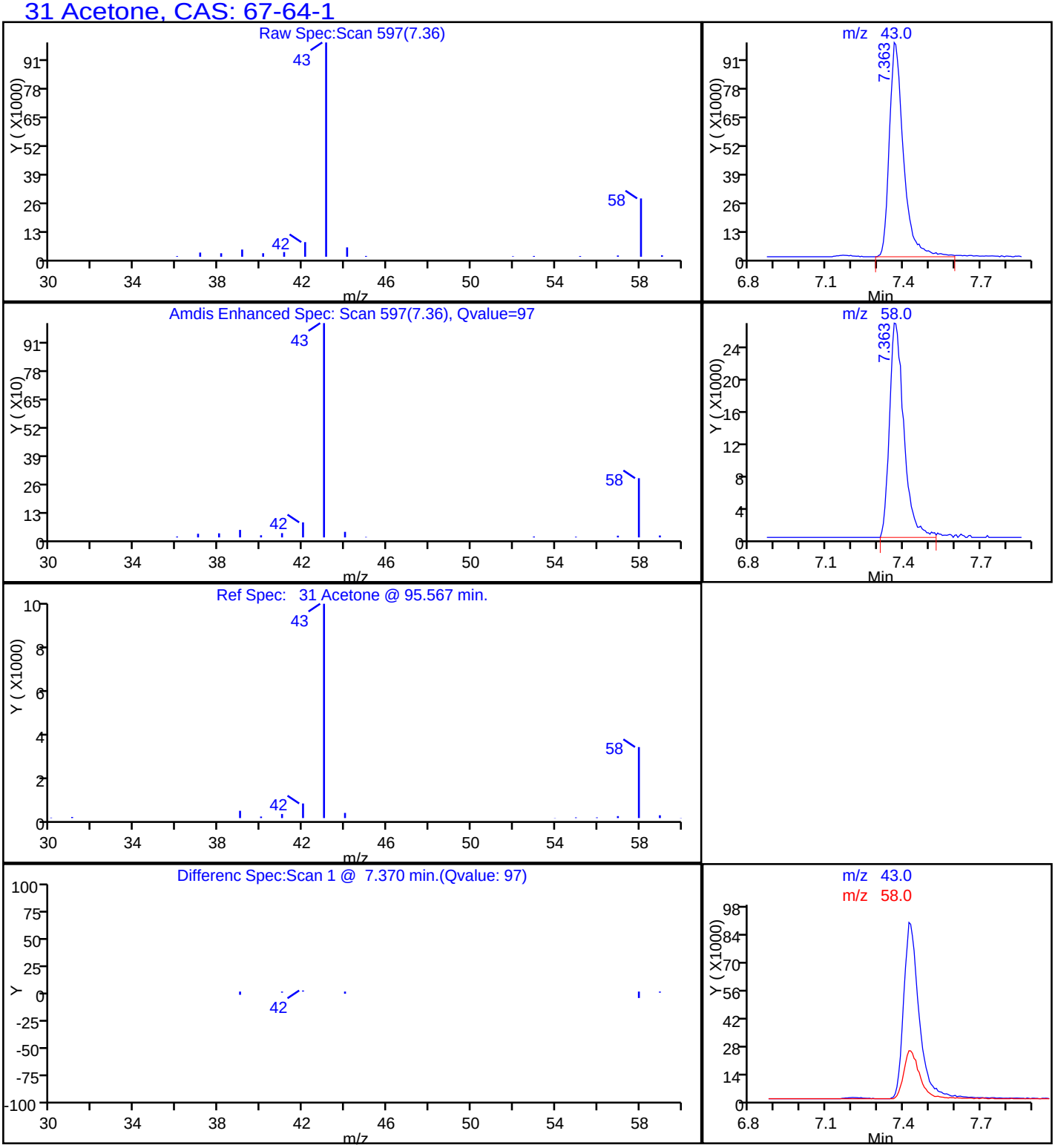


Report Date: 29-Mar-2014 11:11:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032809.d				
Injection Date:	28-Mar-2014 22:28:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-1	Lab Sample ID:	320-6761-1		
Client ID:	34001597				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001050 | Lab Sample ID: 320-6761-4

Matrix: Air | Lab File ID: MS7032710.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 10:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	3.3	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001050 | Lab Sample ID: 320-6761-4

Matrix: Air | Lab File ID: MS7032710.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 10:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001050 Lab Sample ID: 320-6761-4

Matrix: Air Lab File ID: MS7032710.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 10:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39177 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032710.d				
Lims ID:	320-6761-A-4	Lab Sample ID:	320-6761-4		
Client ID:	34001050				
Sample Type:	Client				
Inject. Date:	28-Mar-2014 10:12:30	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6761-4				
Misc. Info.:	500mL; 34001050				
Operator ID:	AO	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	28-Mar-2014 11:22:24	Calib Date:	27-Mar-2014 14:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032703.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: ortizam		Date:	28-Mar-2014 11:24:36		

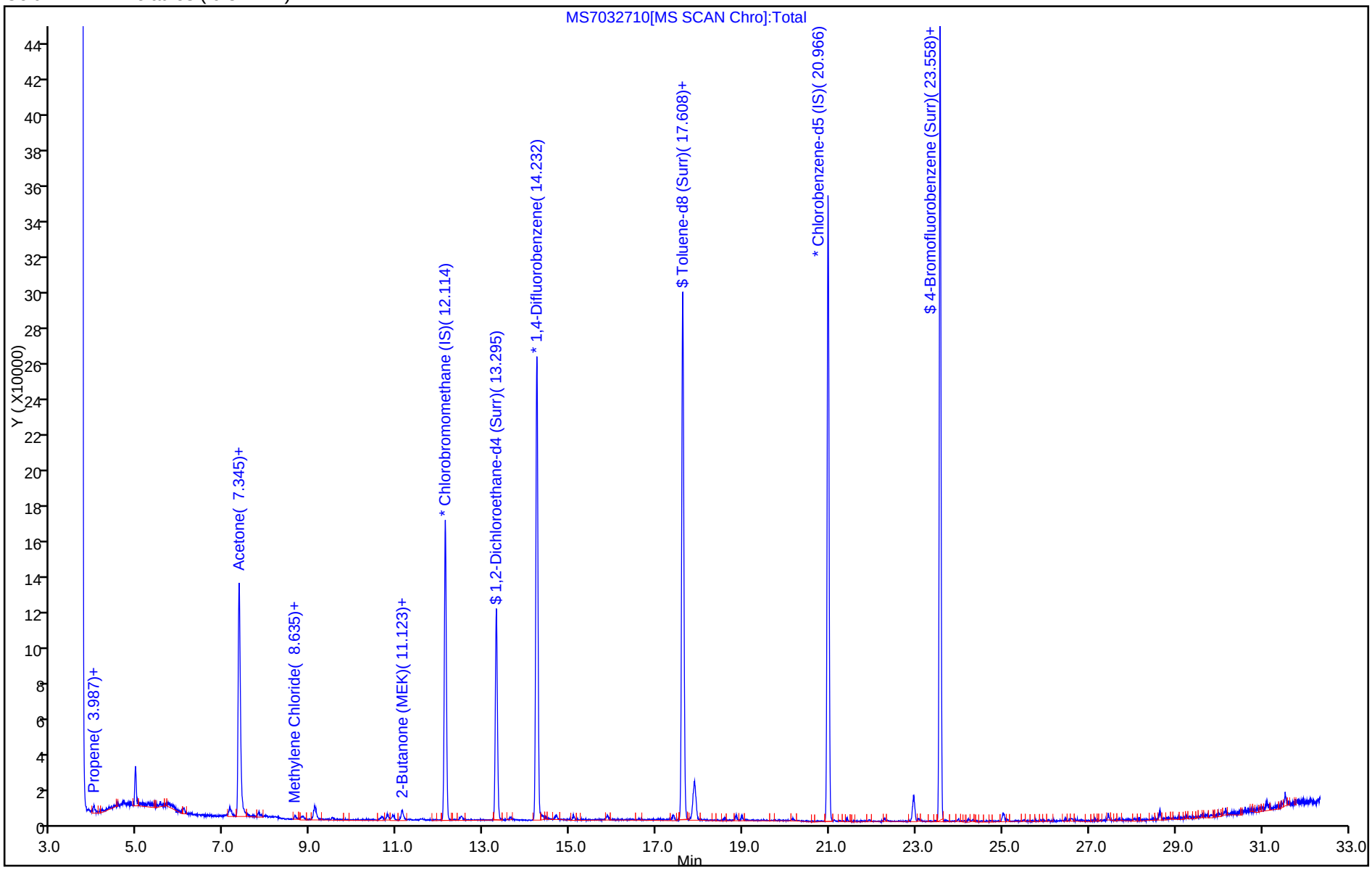
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.114	12.133	-0.019	89	85415	4.00	
* 2 1,4-Difluorobenzene	114	14.232	14.244	-0.012	90	338801	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.978	-0.012	87	312999	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.295	13.313	-0.018	0	150480	4.02	
$ 5 Toluene-d8 (Surr)	100	17.608	17.620	-0.012	89	226638	4.06	
$ 6 4-Bromofluorobenzene (Surr)	95	23.558	23.570	-0.012	89	236984	3.89	
14 Propene	41	3.987	3.993	-0.006	90	2316	0.0447	
31 Acetone	43	7.351	7.418	-0.067	97	319026	3.34	
47 Methylene Chloride	49	8.653	8.659	-0.006	21	2421	0.0343	
54 2-Butanone (MEK)	72	11.123	11.147	-0.024	83	2812	0.1590	

Report Date: 28-Mar-2014 11:24:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032710.d				
Injection Date:	28-Mar-2014 10:12:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-4	Lab Sample ID:	320-6761-4	Worklist Smp#:	10
Client ID:	34001050				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

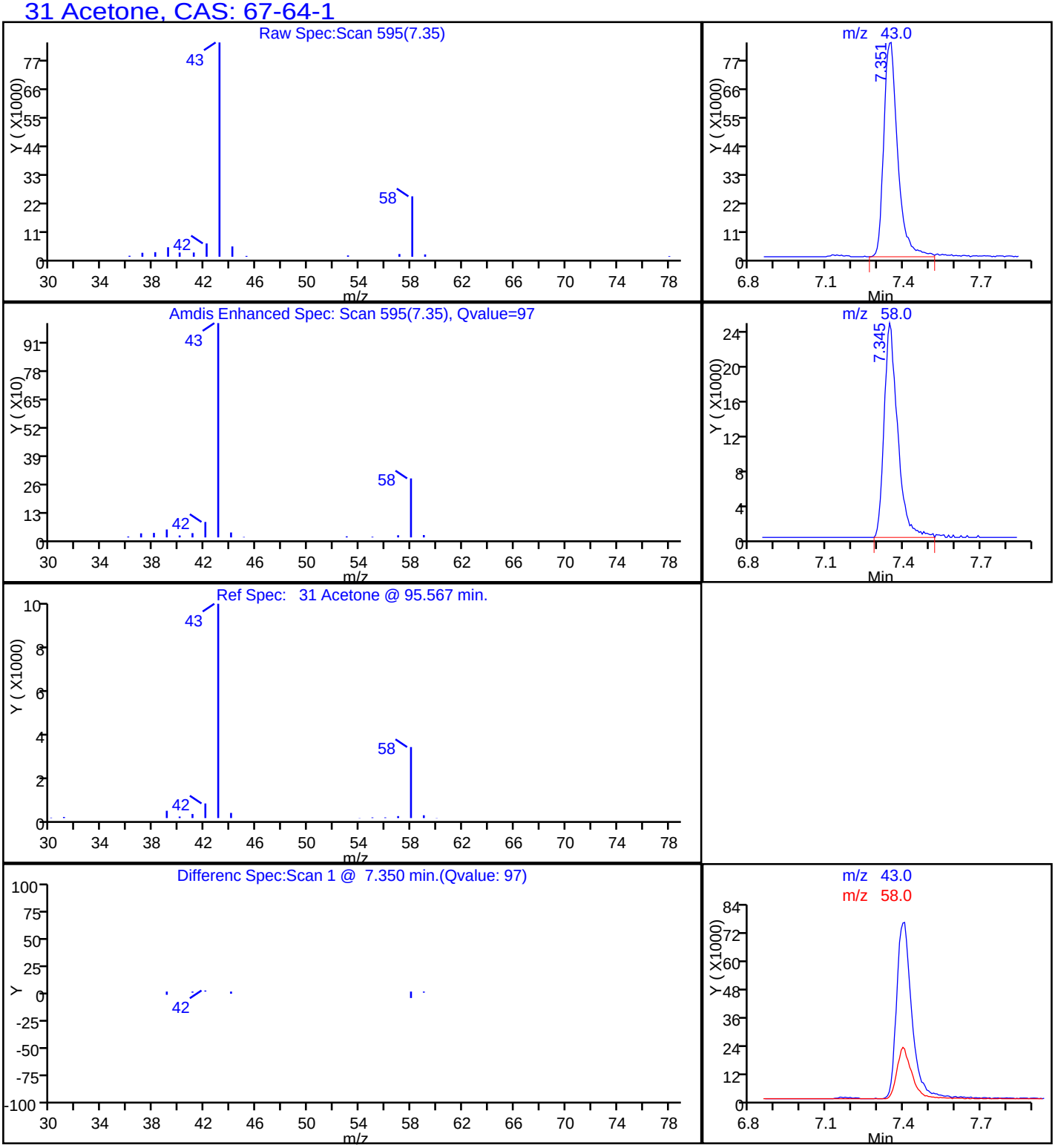


Report Date: 28-Mar-2014 11:24:37 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032710.d				
Injection Date:	28-Mar-2014 10:12:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-4	Lab Sample ID:	320-6761-4		
Client ID:	34001050				
Operator ID:	AO	ALS Bottle#:	10	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001963 | Lab Sample ID: 320-6761-5

Matrix: Air | Lab File ID: MS7032711.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.47	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001963 | Lab Sample ID: 320-6761-5

Matrix: Air | Lab File ID: MS7032711.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 11:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001963 Lab Sample ID: 320-6761-5

Matrix: Air Lab File ID: MS7032711.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 11:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39177 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	102		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032711.d
Lims ID: 320-6761-A-5 Lab Sample ID: 320-6761-5
Client ID: 34001963
Sample Type: Client
Inject. Date: 28-Mar-2014 11:06:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6761-5
Misc. Info.: 500mL; 34001963
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140327-11420.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 28-Mar-2014 11:50:04 Calib Date: 27-Mar-2014 14:12:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032703.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: ortizam Date: 28-Mar-2014 12:30:09

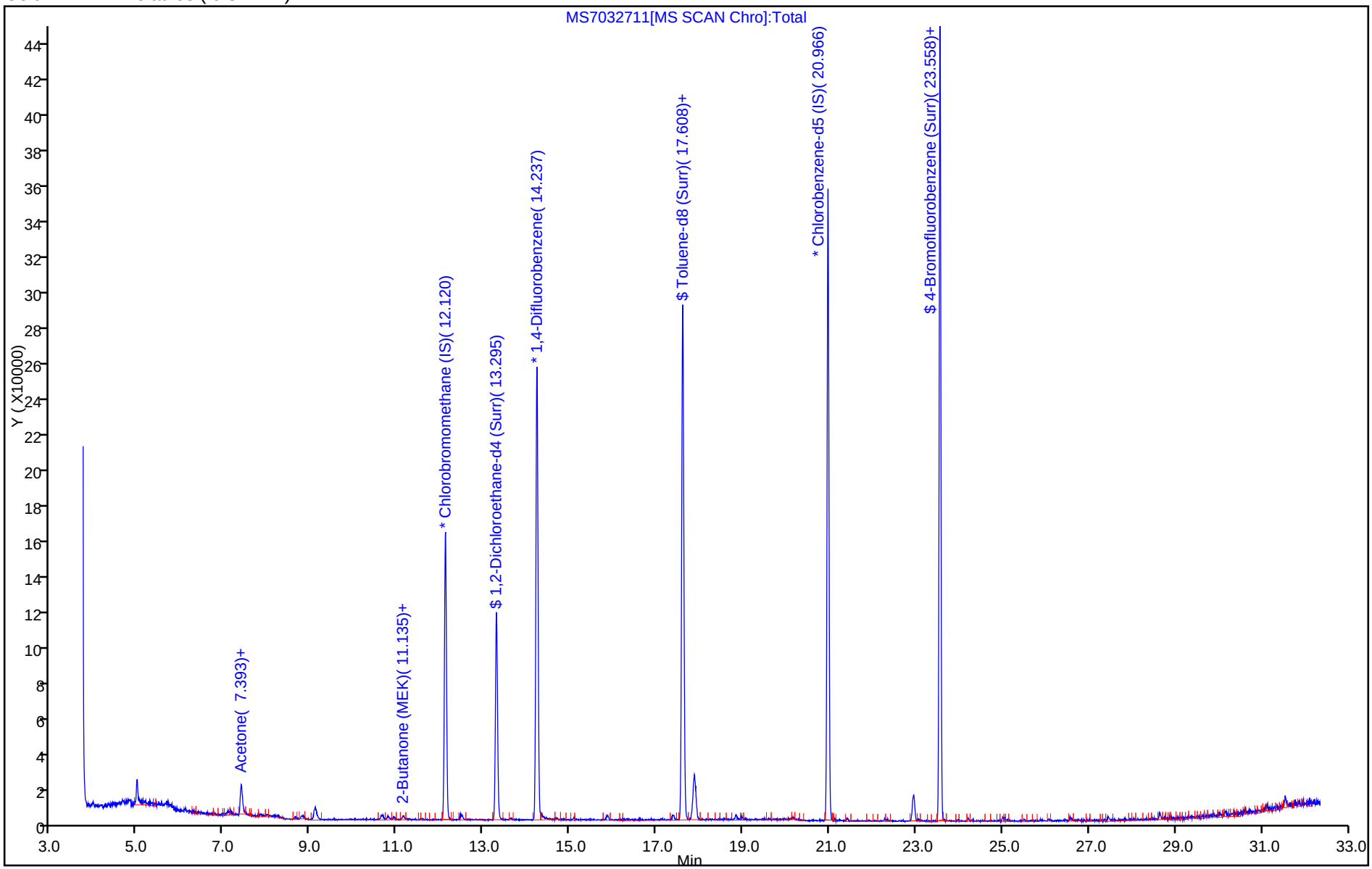
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.114	12.133	-0.019	90	83409	4.00	
* 2 1,4-Difluorobenzene	114	14.231	14.244	-0.013	90	336177	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.978	-0.012	87	317743	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.295	13.313	-0.018	0	149926	4.04	
$ 5 Toluene-d8 (Surr)	100	17.608	17.620	-0.012	89	226057	4.08	
$ 6 4-Bromofluorobenzene (Surr)	95	23.558	23.570	-0.012	89	238690	3.86	
14 Propene	41	3.968	3.993	-0.025	74	1415	0.0279	
31 Acetone	43	7.393	7.418	-0.025	98	43928	0.4709	
54 2-Butanone (MEK)	72	11.147	11.147	0.0	73	502	0.0291	

Report Date: 28-Mar-2014 12:30:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032711.d				
Injection Date:	28-Mar-2014 11:06:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-5	Lab Sample ID:	320-6761-5	Worklist Smp#:	11
Client ID:	34001963				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

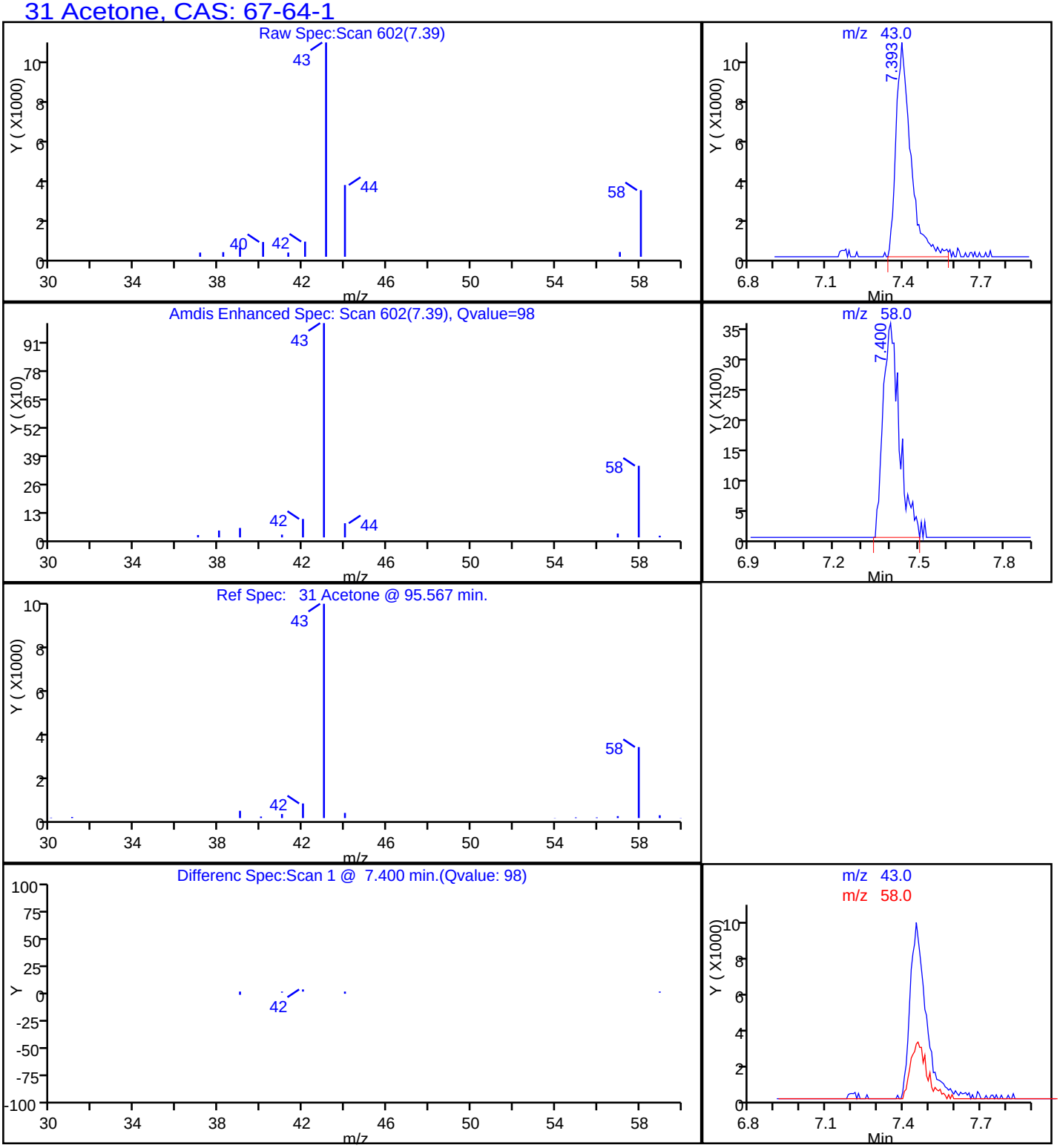


Report Date: 28-Mar-2014 12:30:09 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032711.d				
Injection Date:	28-Mar-2014 11:06:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-5	Lab Sample ID:	320-6761-5		
Client ID:	34001963				
Operator ID:	AO	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001498 | Lab Sample ID: 320-6761-6

Matrix: Air | Lab File ID: MS7032712.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 12:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.38	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001498 | Lab Sample ID: 320-6761-6

Matrix: Air | Lab File ID: MS7032712.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 12:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001498 Lab Sample ID: 320-6761-6

Matrix: Air Lab File ID: MS7032712.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 12:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39177 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032712.d				
Lims ID:	320-6761-A-6	Lab Sample ID:	320-6761-6		
Client ID:	34001498				
Sample Type:	Client				
Inject. Date:	28-Mar-2014 12:02:30	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6761-6				
Misc. Info.:	500mL; 34001498				
Operator ID:	AO	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	28-Mar-2014 13:14:58	Calib Date:	27-Mar-2014 14:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032703.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: ortizam		Date:	28-Mar-2014 13:15:11		

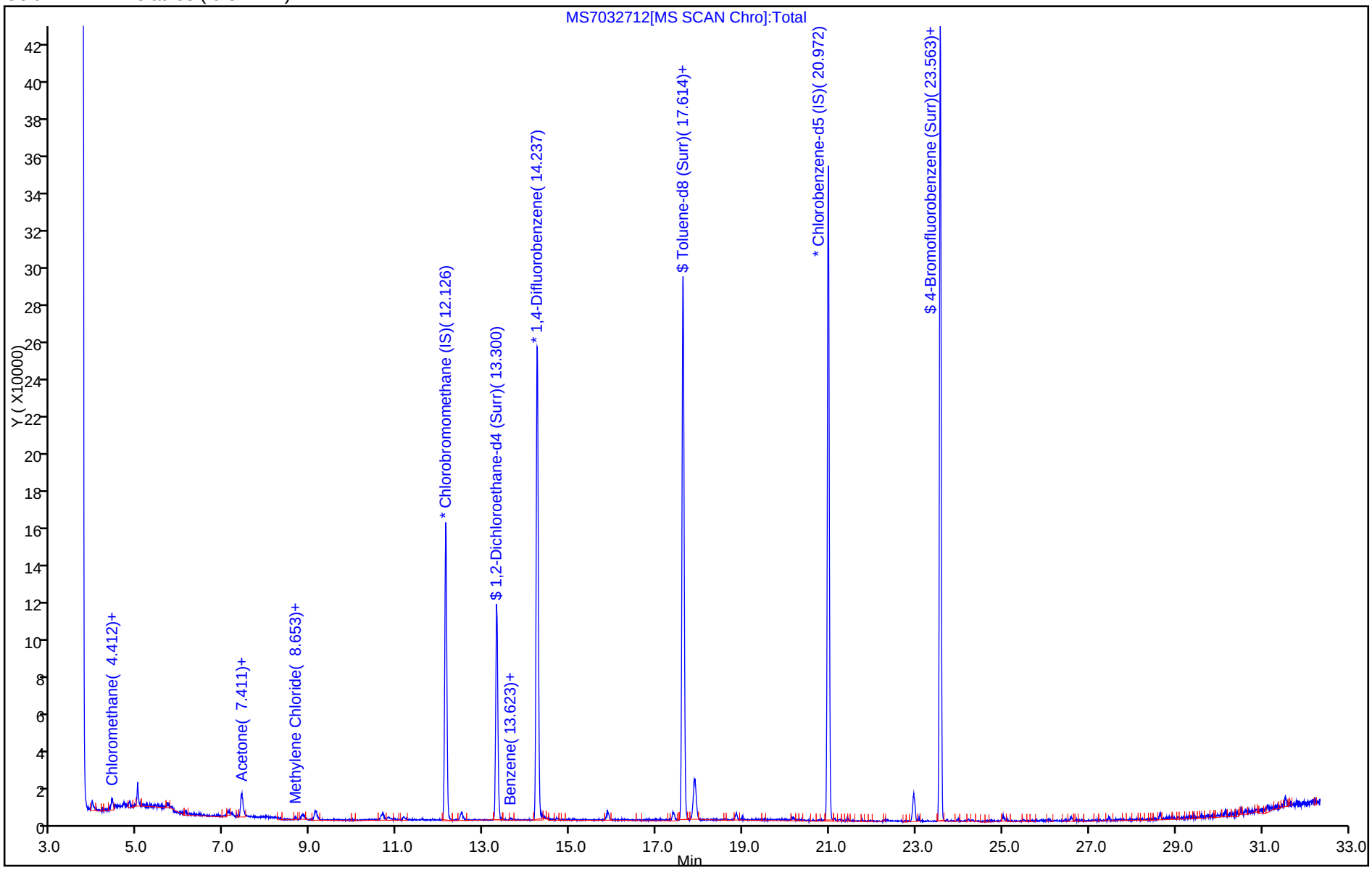
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.126	12.133	-0.007	86	83438	4.00	
* 2 1,4-Difluorobenzene	114	14.243	14.244	-0.001	90	333196	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.972	20.978	-0.006	87	310962	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.300	13.313	-0.013	0	147609	4.01	
$ 5 Toluene-d8 (Surr)	100	17.614	17.620	-0.006	89	219337	3.99	
$ 6 4-Bromofluorobenzene (Surr)	95	23.563	23.570	-0.007	89	229121	3.78	
14 Propene	41	3.993	3.993	0.0	76	1536	0.0303	
18 Chloromethane	50	4.406	4.492	-0.086	1	1855	0.0374	
31 Acetone	43	7.399	7.418	-0.019	93	35013	0.3752	
47 Methylene Chloride	49	8.653	8.659	-0.006	22	1709	0.0248	
68 Benzene	78	13.623	13.641	-0.018	1	3372	0.0222	

Report Date: 28-Mar-2014 13:15:11 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032712.d				
Injection Date:	28-Mar-2014 12:02:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-6	Lab Sample ID:	320-6761-6	Worklist Smp#:	12
Client ID:	34001498				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

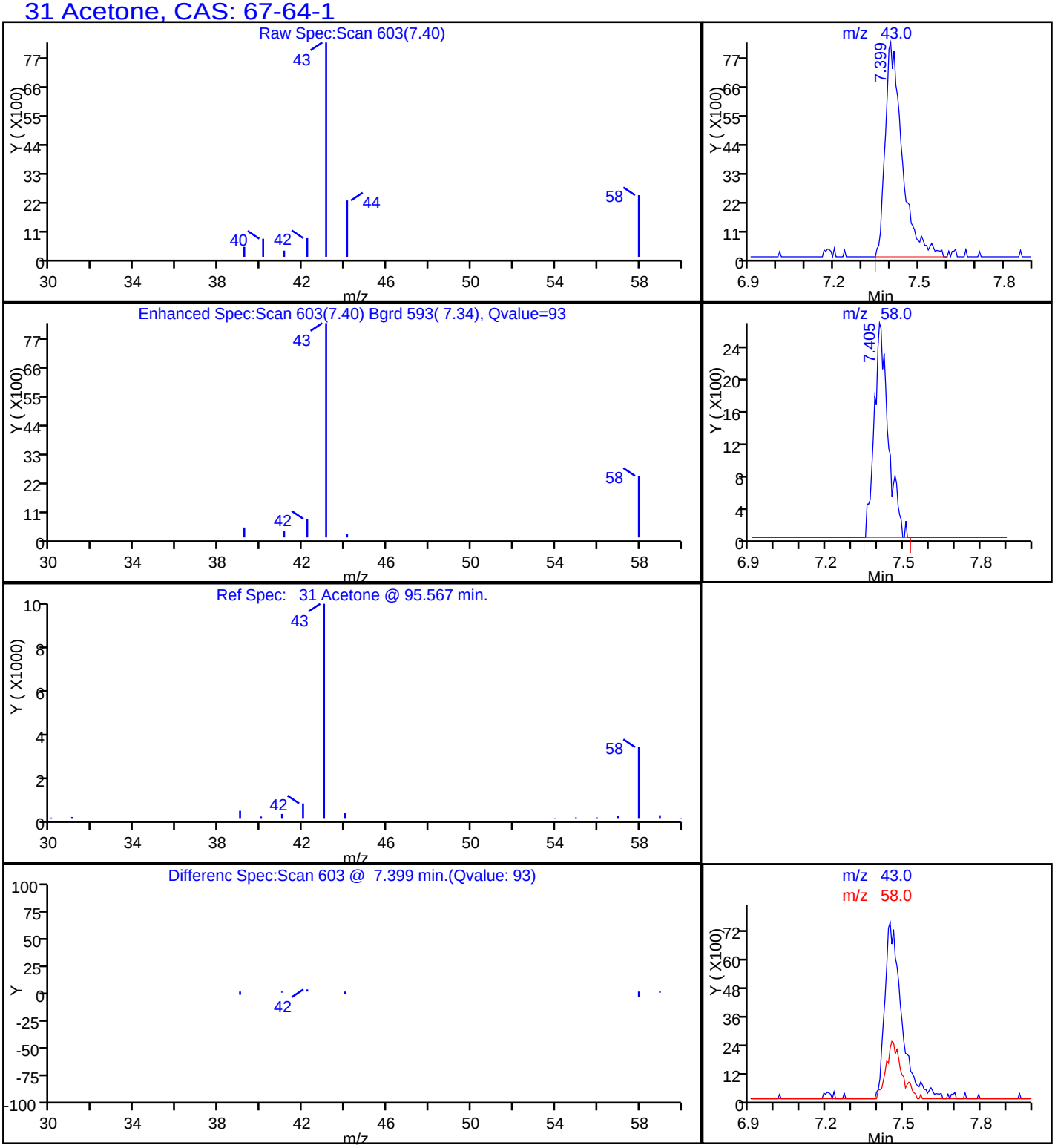


Report Date: 28-Mar-2014 13:15:11 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032712.d				
Injection Date:	28-Mar-2014 12:02:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-6	Lab Sample ID:	320-6761-6		
Client ID:	34001498				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000983 | Lab Sample ID: 320-6761-7

Matrix: Air | Lab File ID: MS7032713.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 13:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.0	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000983 | Lab Sample ID: 320-6761-7

Matrix: Air | Lab File ID: MS7032713.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 13:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39177 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000983 Lab Sample ID: 320-6761-7

Matrix: Air Lab File ID: MS7032713.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 13:01

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39177 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	96		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032713.d				
Lims ID:	320-6761-A-7	Lab Sample ID:	320-6761-7		
Client ID:	34000983				
Sample Type:	Client				
Inject. Date:	28-Mar-2014 13:01:30	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6761-7				
Misc. Info.:	500mL; 34000983				
Operator ID:	AO	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	28-Mar-2014 14:21:00	Calib Date:	27-Mar-2014 14:12:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032703.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: ortizam		Date:	28-Mar-2014 14:21:19		

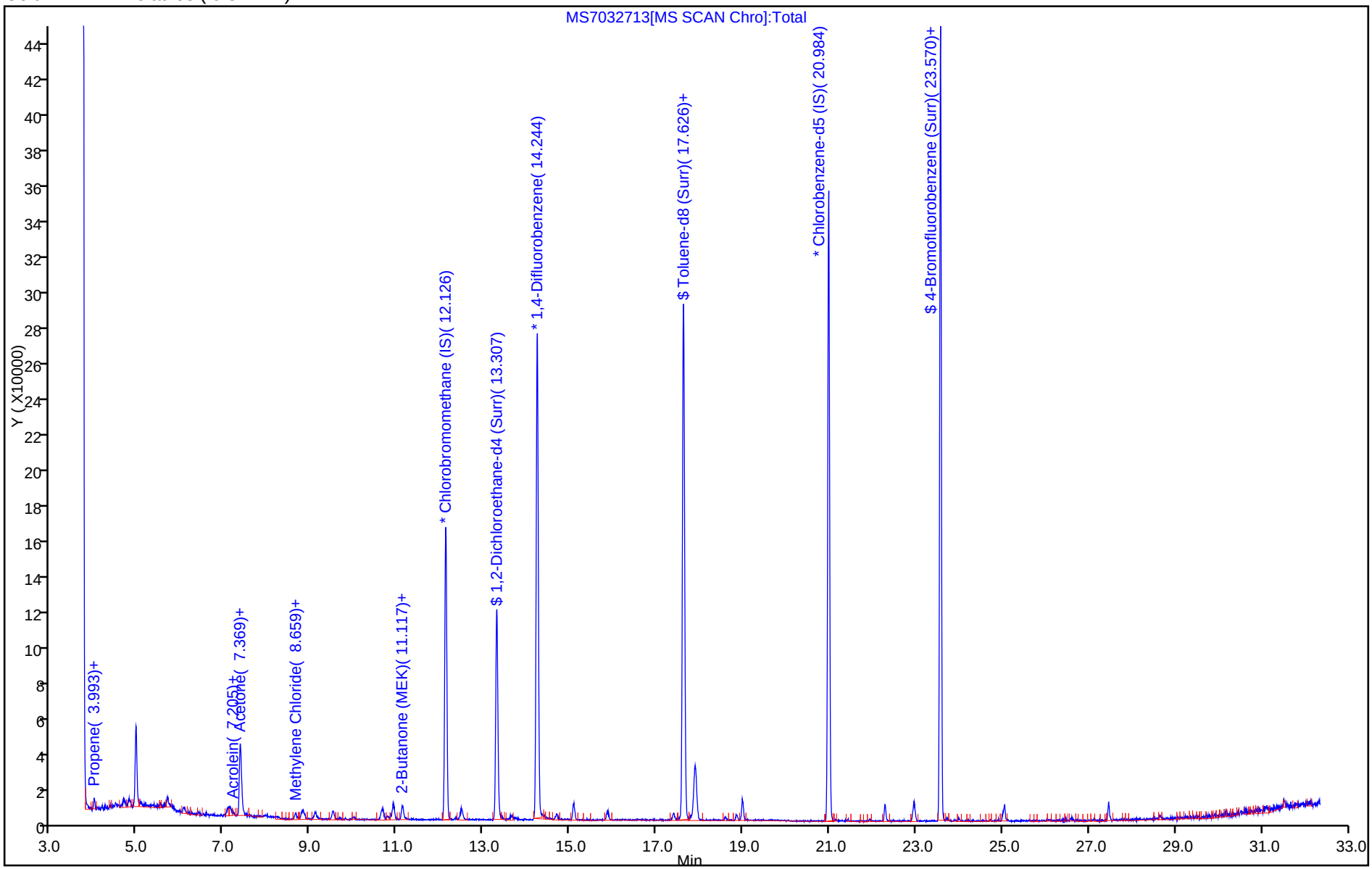
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.126	12.133	-0.007	89	87658	4.00	
* 2 1,4-Difluorobenzene	114	14.244	14.244	0.0	90	351558	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.978	0.006	86	316802	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.301	13.313	-0.012	0	155170	4.00	
$ 5 Toluene-d8 (Surr)	100	17.620	17.620	0.0	89	229498	3.96	
$ 6 4-Bromofluorobenzene (Surr)	95	23.570	23.570	0.0	89	237360	3.85	
14 Propene	41	3.993	3.993	0.0	93	4735	0.0890	
18 Chloromethane	50	4.485	4.492	-0.007	57	5051	0.0970	
29 Acrolein	56	7.235	7.254	-0.019	32	2047	0.1014	
31 Acetone	43	7.369	7.418	-0.049	99	98491	1.00	
47 Methylene Chloride	49	8.653	8.659	-0.006	65	4118	0.0569	
54 2-Butanone (MEK)	72	11.110	11.147	-0.037	86	3317	0.1827	

Report Date: 28-Mar-2014 14:21:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032713.d				
Injection Date:	28-Mar-2014 13:01:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-7	Lab Sample ID:	320-6761-7	Worklist Smp#:	13
Client ID:	34000983				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

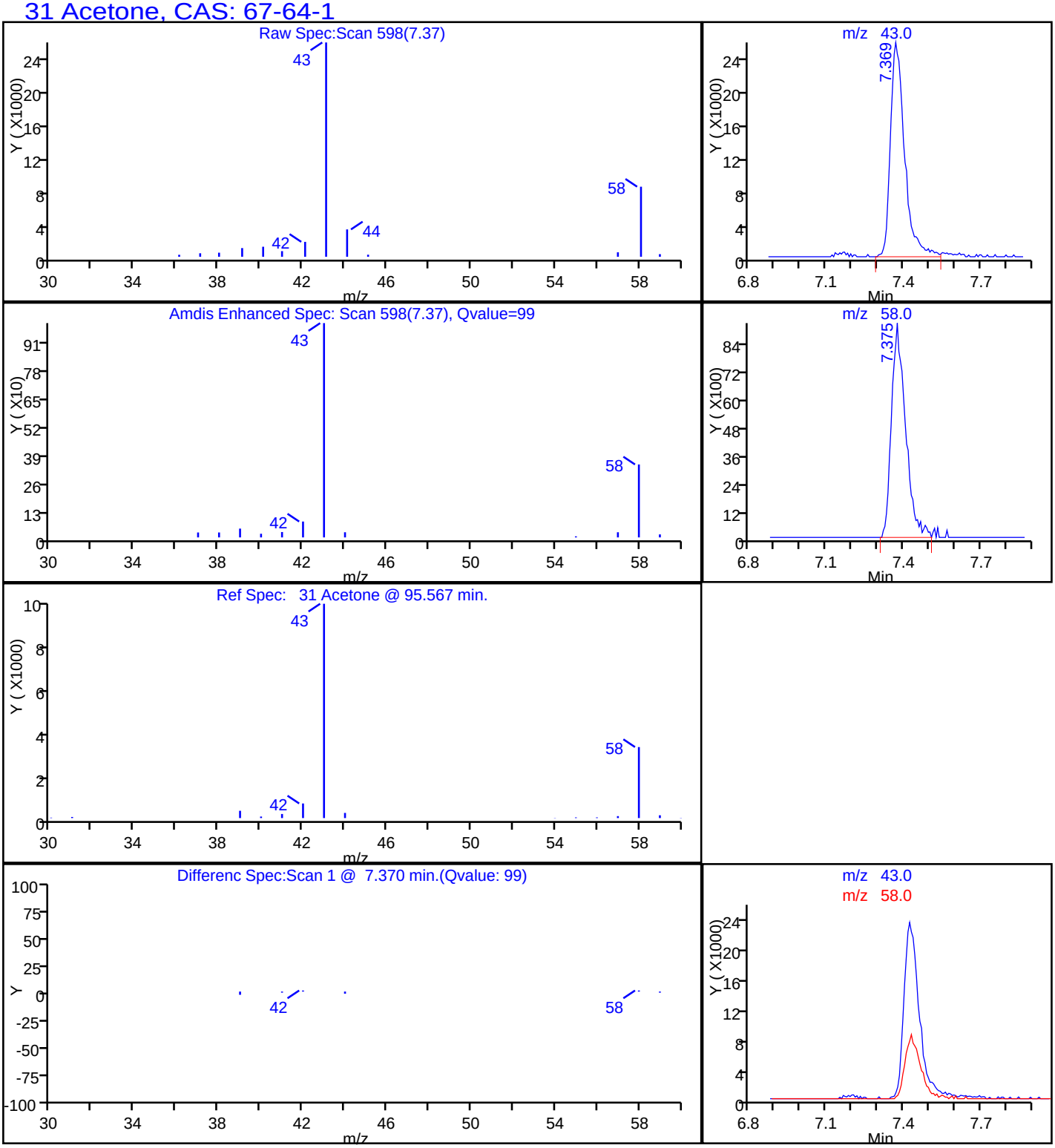


Report Date: 28-Mar-2014 14:21:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140327-11420.b\MS7032713.d				
Injection Date:	28-Mar-2014 13:01:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-7	Lab Sample ID:	320-6761-7		
Client ID:	34000983				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000640 | Lab Sample ID: 320-6761-8

Matrix: Air | Lab File ID: MS7032804.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 17:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.5	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	0.33	J	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000640 | Lab Sample ID: 320-6761-8

Matrix: Air | Lab File ID: MS7032804.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 17:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	0.29	J	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	0.12	J	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

FORM I TO-15

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000640 Lab Sample ID: 320-6761-8

Matrix: Air Lab File ID: MS7032804.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 17:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39284 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032804.d
Lims ID: 320-6761-A-8 Lab Sample ID: 320-6761-8
Client ID: 34000640
Sample Type: Client
Inject. Date: 28-Mar-2014 17:47:30 ALS Bottle#: 14 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6761-8
Misc. Info.: 500mL; 34000640
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 29-Mar-2014 11:08:42 Calib Date: 28-Mar-2014 15:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032802.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: ortizam Date: 29-Mar-2014 11:08:42

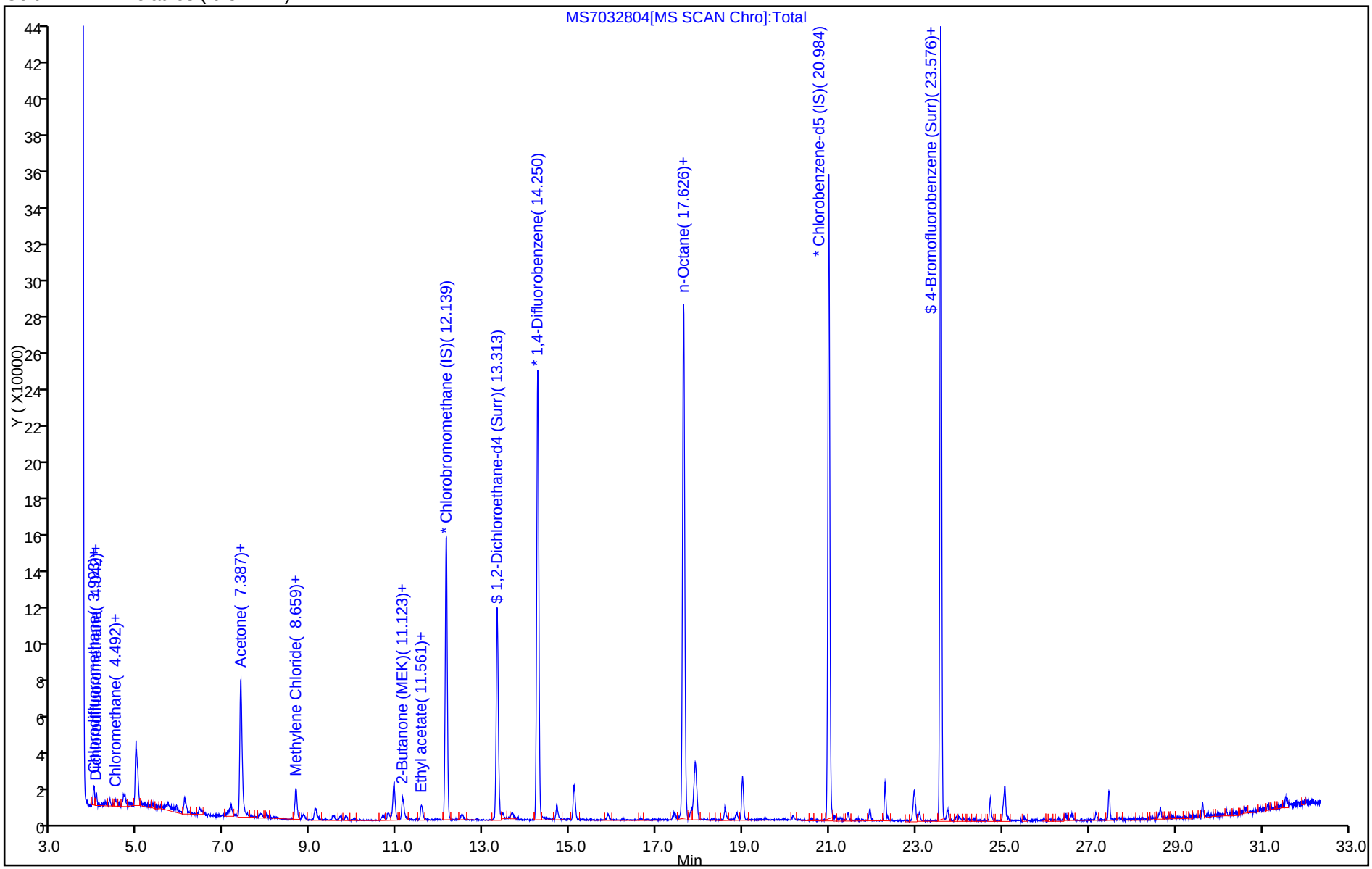
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.133	12.126	0.007	89	80689	4.00	
* 2 1,4-Difluorobenzene	114	14.256	14.250	0.006	90	330051	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.990	-0.006	87	318968	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.313	13.313	0.0	0	144871	3.90	
$ 5 Toluene-d8 (Surr)	100	17.620	17.632	-0.012	88	221867	4.05	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.576	0.0	89	235020	3.78	
14 Propene	41	3.981	3.962	0.019	93	5937	0.1159	
13 Chlorodifluoromethane	51	4.005	3.975	0.031	14	3974	0.0433	
15 Dichlorodifluoromethane	85	4.048	4.023	0.025	63	6899	0.0490	
18 Chloromethane	50	4.492	4.467	0.025	58	5395	0.1059	
29 Acrolein	56	7.260	7.217	0.043	35	831	0.0441	
31 Acetone	43	7.387	7.375	0.012	99	168963	1.55	
47 Methylene Chloride	49	8.653	8.647	0.006	84	20696	0.2916	
54 2-Butanone (MEK)	72	11.129	11.135	-0.006	95	5810	0.3306	
58 Ethyl acetate	43	11.561	11.549	0.012	78	22262	0.1618	
88 n-Octane	43	17.644	17.669	-0.025	13	4462	0.0261	

Report Date: 29-Mar-2014 11:08:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032804.d				
Injection Date:	28-Mar-2014 17:47:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-8	Lab Sample ID:	320-6761-8	Worklist Smp#:	4
Client ID:	34000640				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

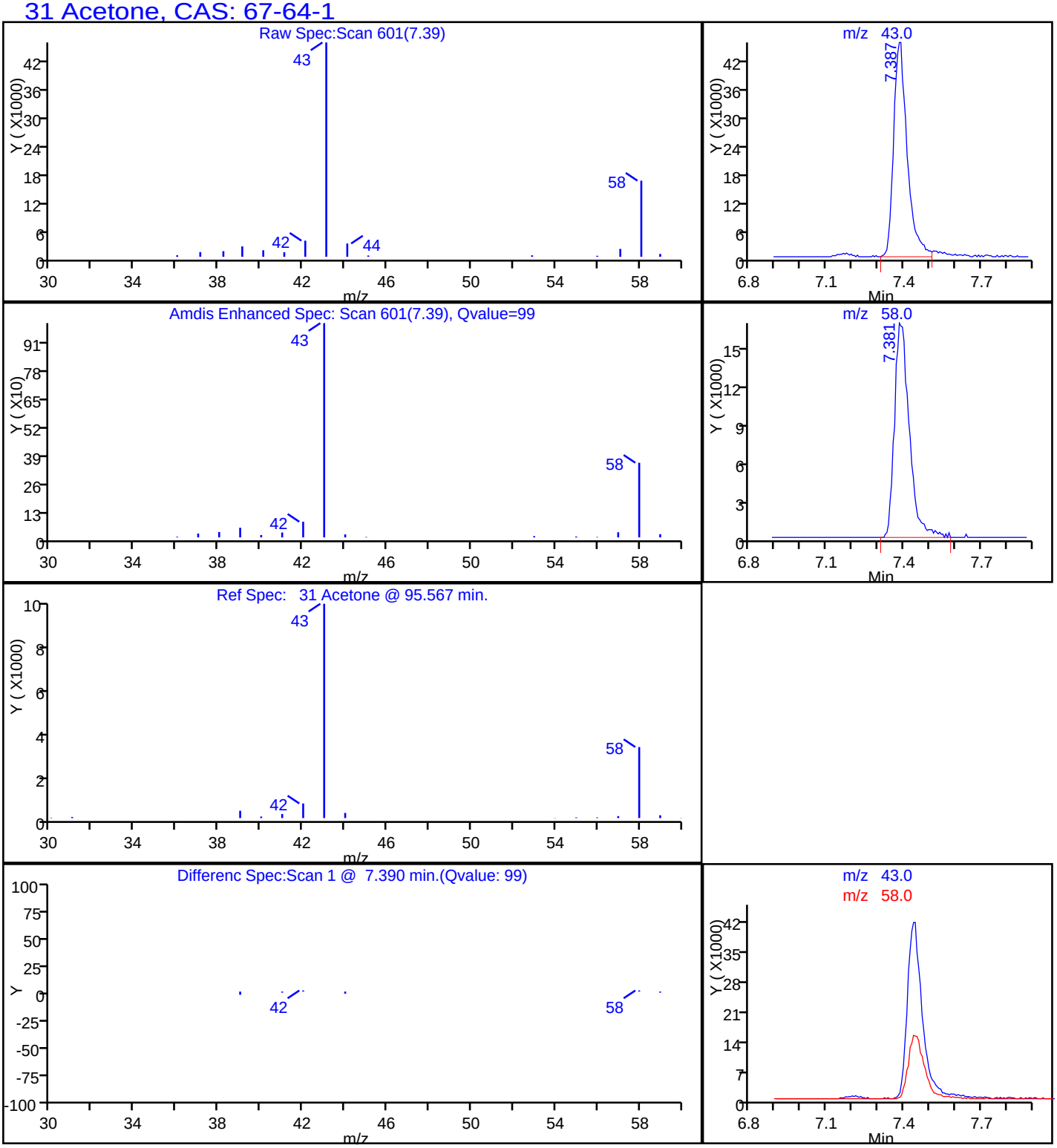


Report Date: 29-Mar-2014 11:08:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032804.d				
Injection Date:	28-Mar-2014 17:47:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-8	Lab Sample ID:	320-6761-8		
Client ID:	34000640				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

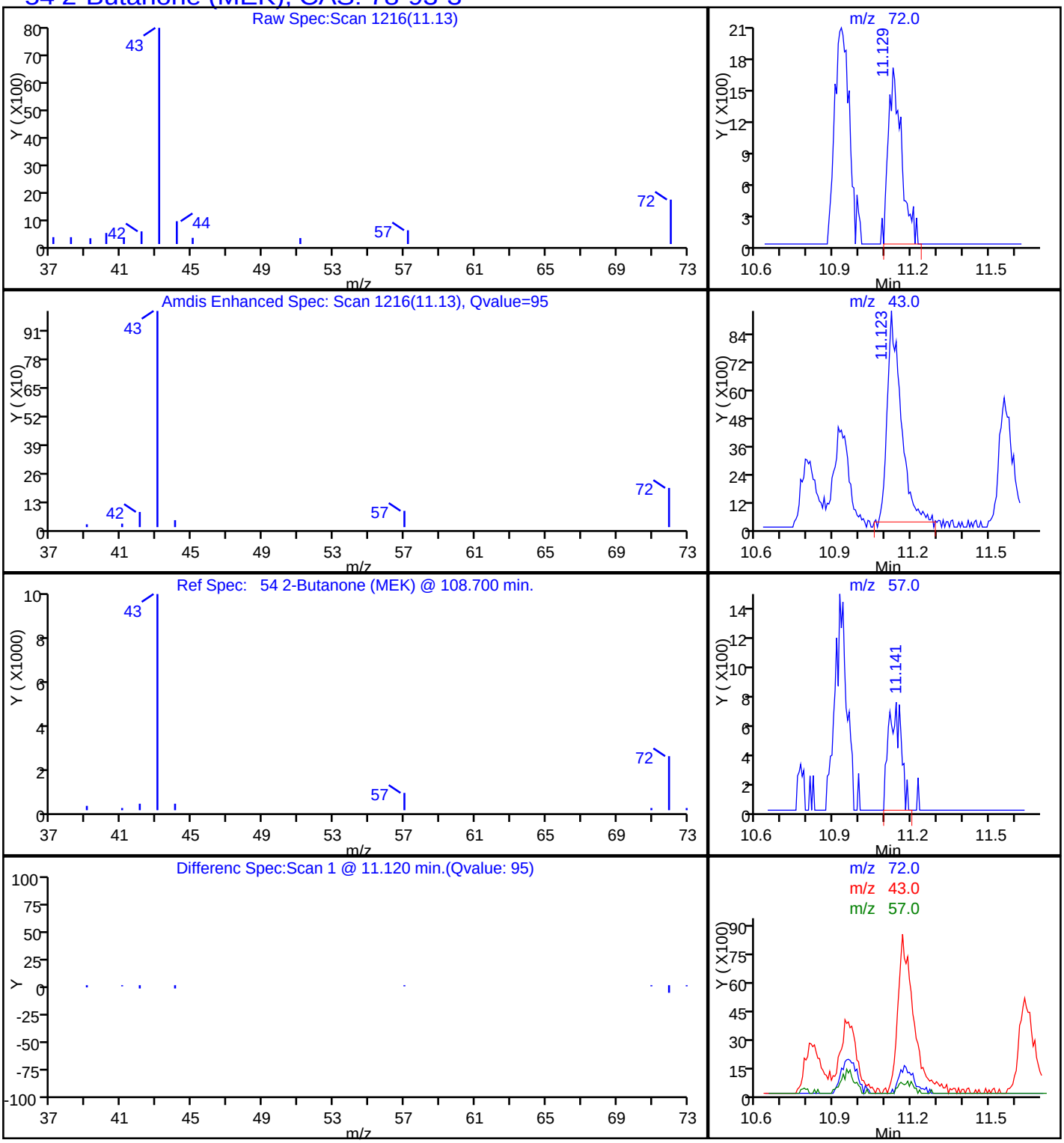


Report Date: 29-Mar-2014 11:08:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032804.d				
Injection Date:	28-Mar-2014 17:47:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-8	Lab Sample ID:	320-6761-8		
Client ID:	34000640				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

54 2-Butanone (MEK), CAS: 78-93-3

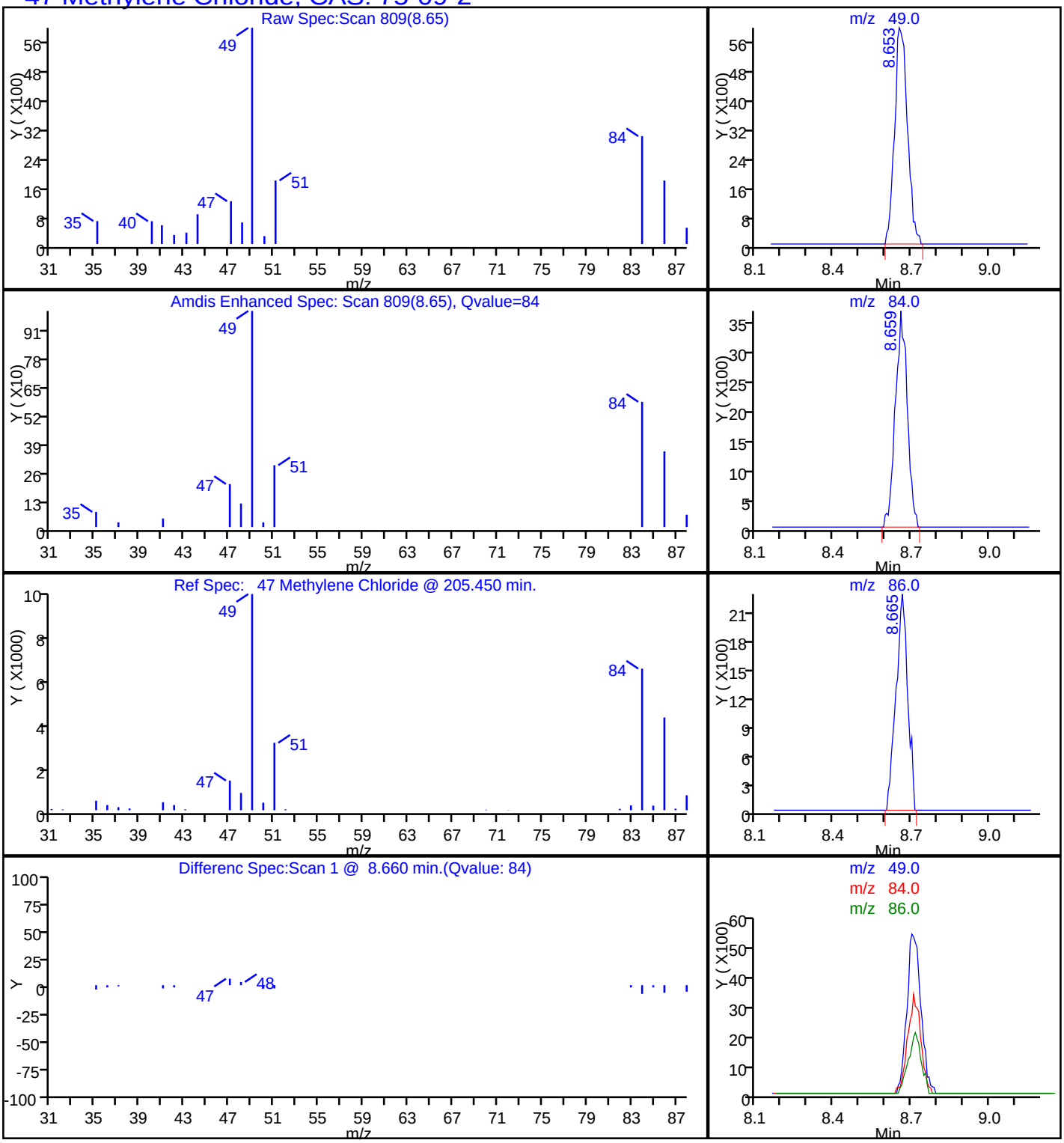


Report Date: 29-Mar-2014 11:08:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032804.d				
Injection Date:	28-Mar-2014 17:47:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-8	Lab Sample ID:	320-6761-8		
Client ID:	34000640				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

47 Methylene Chloride, CAS: 75-09-2

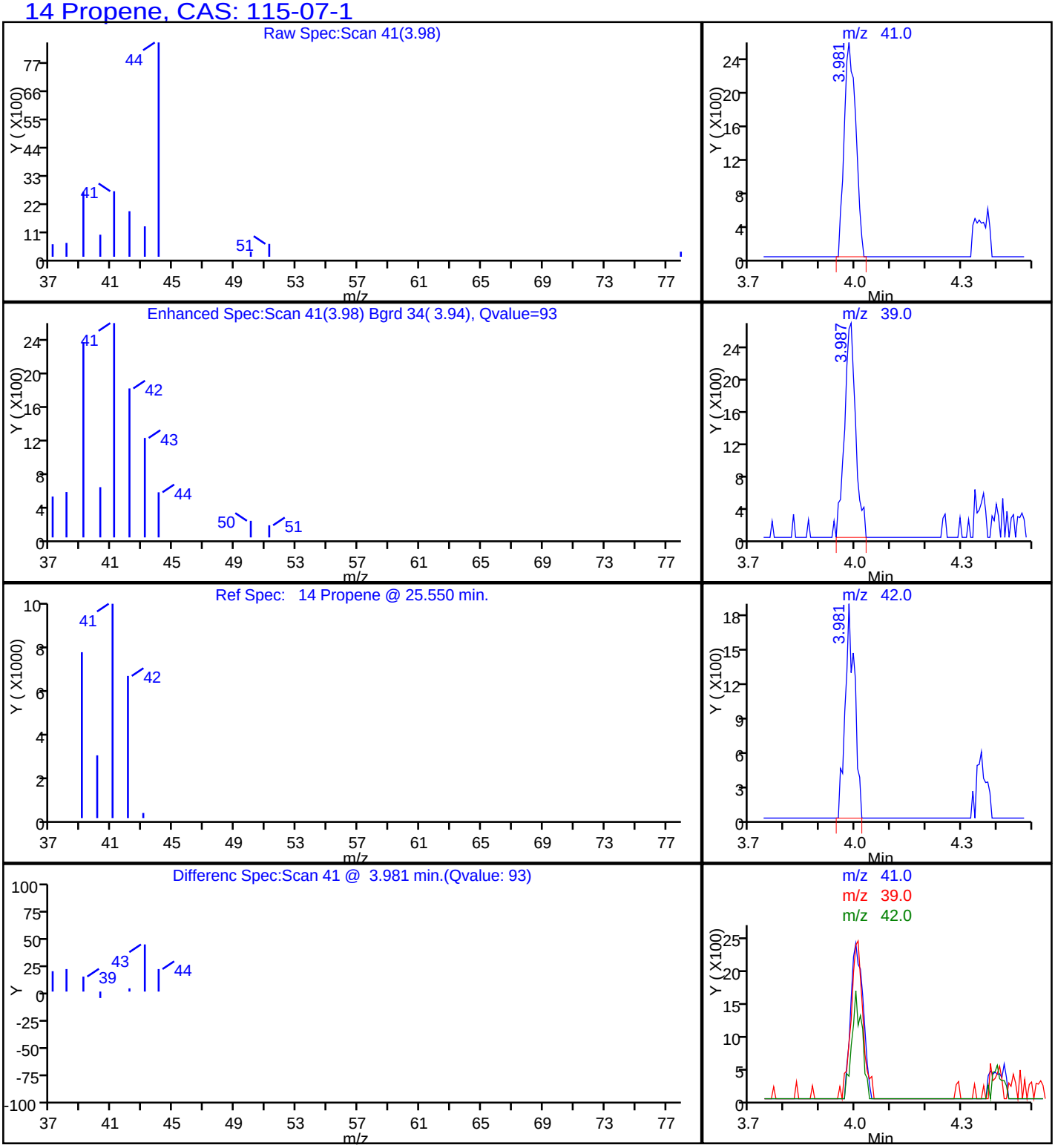


Report Date: 29-Mar-2014 11:08:43 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032804.d				
Injection Date:	28-Mar-2014 17:47:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-8	Lab Sample ID:	320-6761-8		
Client ID:	34000640				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

14 Propene, CAS: 115-07-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001853 | Lab Sample ID: 320-6761-9

Matrix: Air | Lab File ID: MS7032805.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 18:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.48	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001853 | Lab Sample ID: 320-6761-9

Matrix: Air | Lab File ID: MS7032805.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 18:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34001853 Lab Sample ID: 320-6761-9

Matrix: Air Lab File ID: MS7032805.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 18:44

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39284 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032805.d
Lims ID: 320-6761-A-9 Lab Sample ID: 320-6761-9
Client ID: 34001853
Sample Type: Client
Inject. Date: 28-Mar-2014 18:44:30 ALS Bottle#: 15 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6761-9
Misc. Info.: 500mL; 34001853
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 29-Mar-2014 11:09:01 Calib Date: 28-Mar-2014 15:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032802.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: ortizam Date: 29-Mar-2014 11:09:01

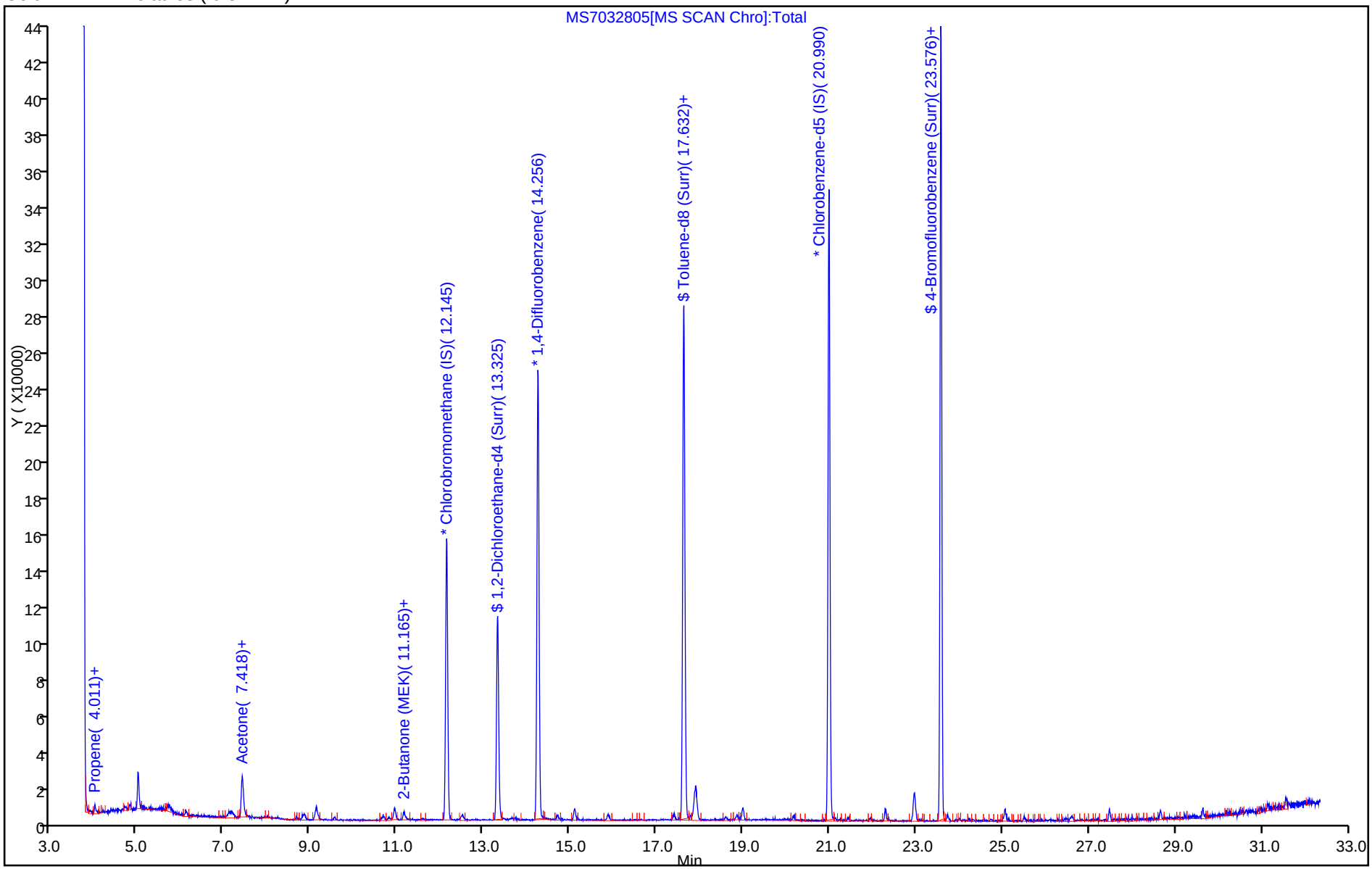
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.151	12.126	0.025	86	82148	4.00	
* 2 1,4-Difluorobenzene	114	14.262	14.250	0.012	90	333140	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.990	20.990	0.0	86	319163	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.325	13.313	0.012	0	148090	3.95	
$ 5 Toluene-d8 (Surr)	100	17.632	17.632	0.0	89	221629	4.00	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.576	0.0	90	237251	3.81	
14 Propene	41	4.017	3.962	0.055	92	2528	0.0485	
31 Acetone	43	7.418	7.375	0.043	93	53397	0.4807	
54 2-Butanone (MEK)	72	11.165	11.135	0.030	90	2096	0.1171	

Report Date: 29-Mar-2014 11:09:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032805.d				
Injection Date:	28-Mar-2014 18:44:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-9	Lab Sample ID:	320-6761-9	Worklist Smp#:	5
Client ID:	34001853				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

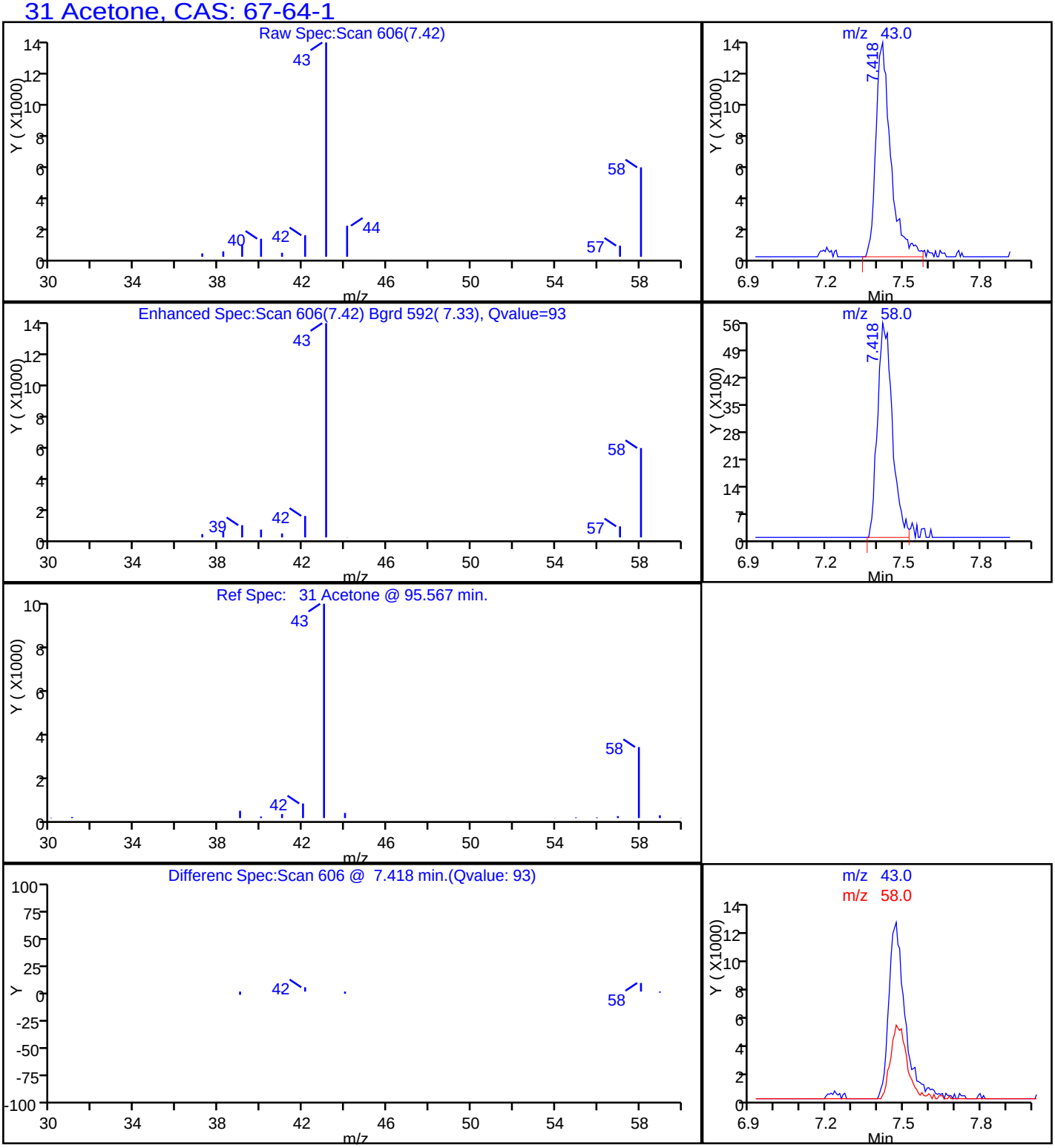


Report Date: 29-Mar-2014 11:09:01 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032805.d				
Injection Date:	28-Mar-2014 18:44:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-9	Lab Sample ID:	320-6761-9		
Client ID:	34001853				
Operator ID:	AO	ALS Bottle#:	15	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000759 | Lab Sample ID: 320-6761-10

Matrix: Air | Lab File ID: MS7032806.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 19:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.39	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000759 | Lab Sample ID: 320-6761-10

Matrix: Air | Lab File ID: MS7032806.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 19:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000759 Lab Sample ID: 320-6761-10

Matrix: Air Lab File ID: MS7032806.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 19:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39284 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032806.d				
Lims ID:	320-6761-A-10	Lab Sample ID:	320-6761-10		
Client ID:	34000759				
Sample Type:	Client				
Inject. Date:	28-Mar-2014 19:39:30	ALS Bottle#:	16	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6761-10				
Misc. Info.:	500mL; 34000759				
Operator ID:	AO	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	29-Mar-2014 11:09:01	Calib Date:	28-Mar-2014 15:57:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032802.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK048				
First Level Reviewer: ortizam		Date:	29-Mar-2014 11:09:10		

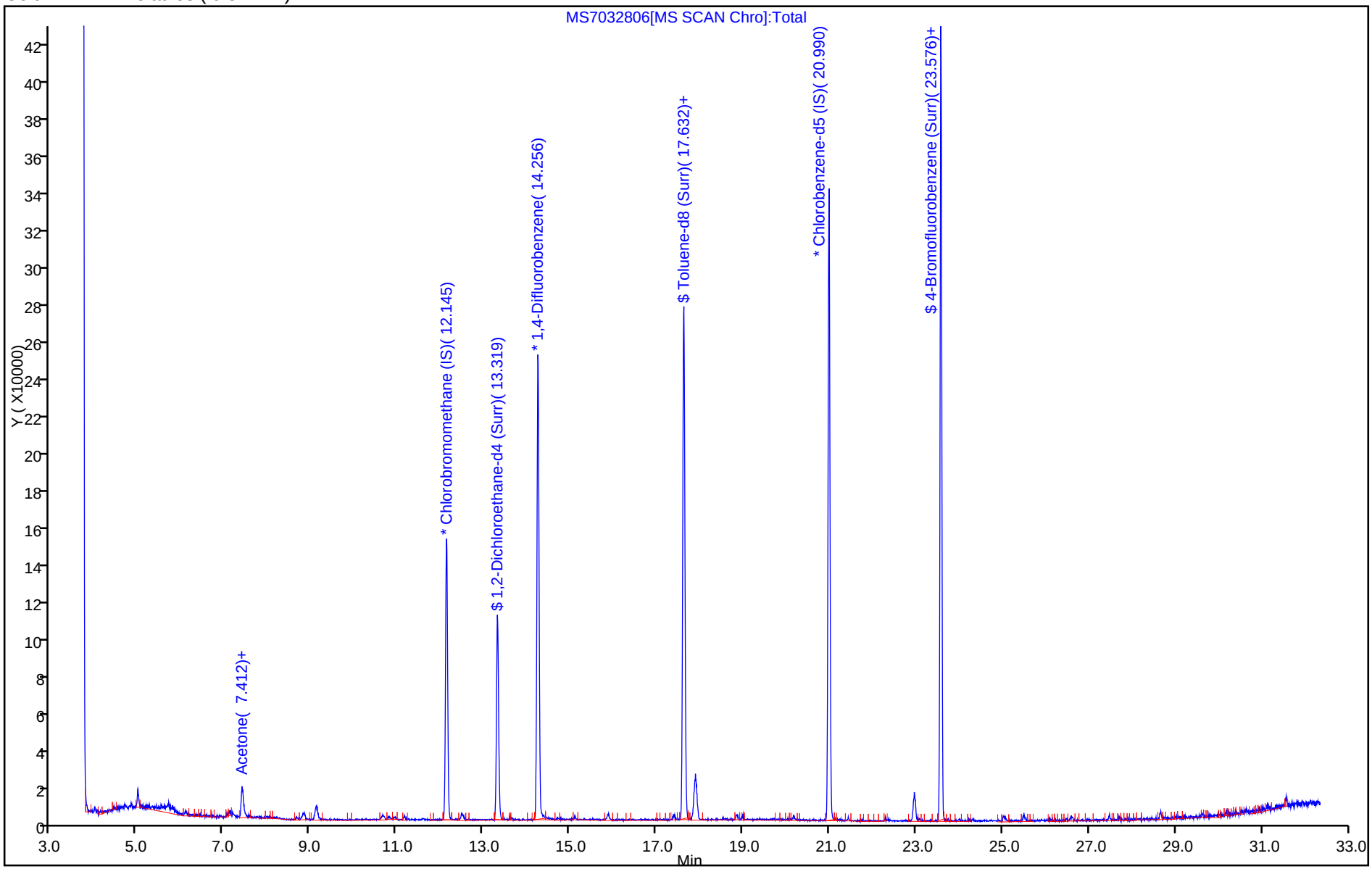
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.145	12.126	0.019	87	82395	4.00	
* 2 1,4-Difluorobenzene	114	14.256	14.250	0.006	90	326565	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.990	20.990	0.0	86	306187	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.319	13.313	0.006	0	143599	3.91	
$ 5 Toluene-d8 (Surr)	100	17.632	17.632	0.0	89	216813	4.00	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.576	0.0	89	227811	3.82	
14 Propene	41	4.005	3.962	0.043	91	1495	0.0286	
31 Acetone	43	7.412	7.375	0.037	95	43254	0.3882	

Report Date: 29-Mar-2014 11:09:11 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032806.d				
Injection Date:	28-Mar-2014 19:39:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-10	Lab Sample ID:	320-6761-10	Worklist Smp#:	6
Client ID:	34000759				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

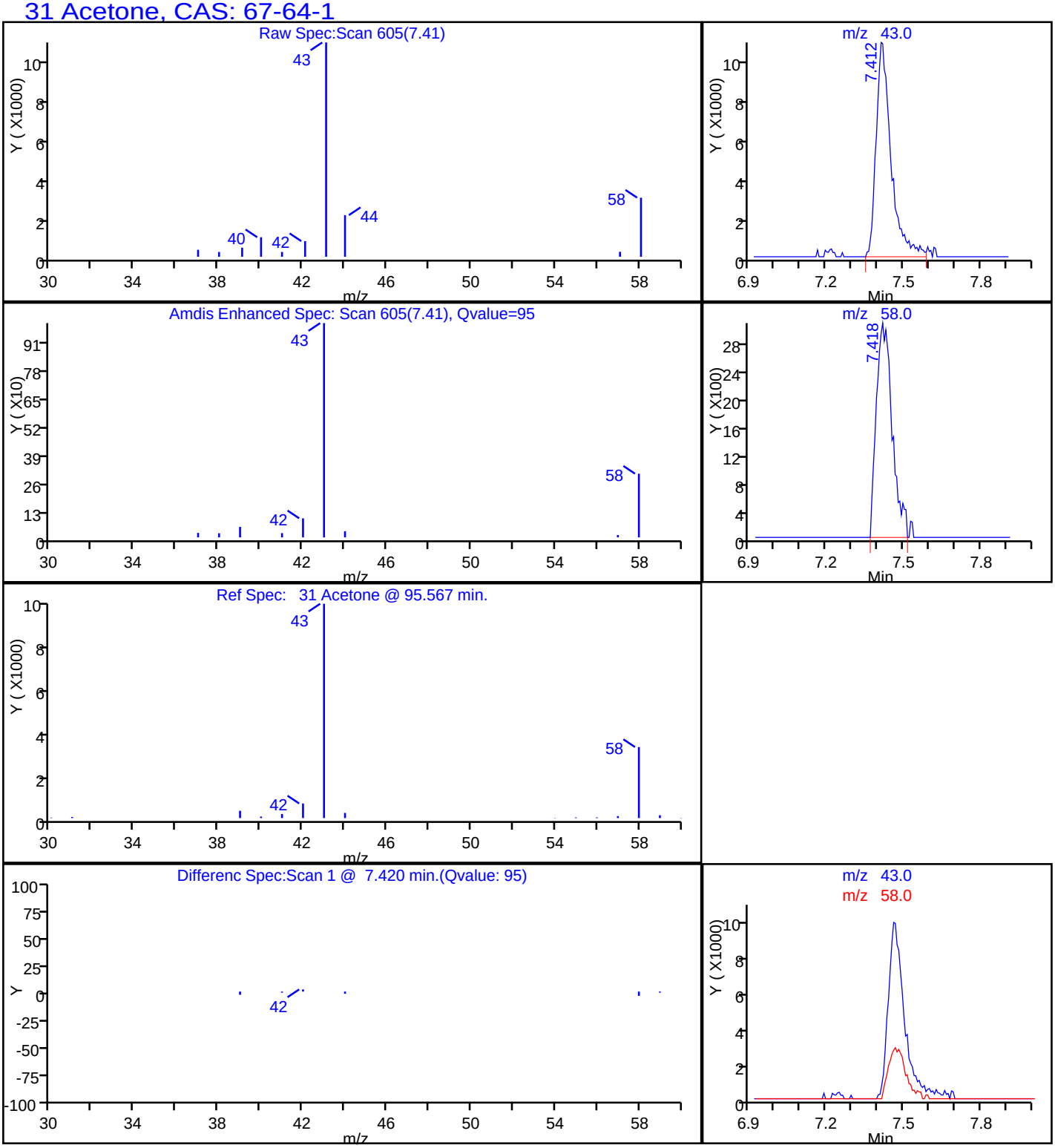


Report Date: 29-Mar-2014 11:09:11 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032806.d				
Injection Date:	28-Mar-2014 19:39:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-10	Lab Sample ID:	320-6761-10		
Client ID:	34000759				
Operator ID:	AO	ALS Bottle#:	16	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000234 | Lab Sample ID: 320-6761-12

Matrix: Air | Lab File ID: MS7032808.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 21:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.28	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000234 | Lab Sample ID: 320-6761-12

Matrix: Air | Lab File ID: MS7032808.d

Analysis Method: TO-15 | Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/28/2014 21:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39284 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6761-1

SDG No.:

Client Sample ID: 34000234 Lab Sample ID: 320-6761-12

Matrix: Air Lab File ID: MS7032808.d

Analysis Method: TO-15 Date Collected: 03/18/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/28/2014 21:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39284 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032808.d
Lims ID: 320-6761-A-12 Lab Sample ID: 320-6761-12
Client ID: 34000234
Sample Type: Client
Inject. Date: 28-Mar-2014 21:31:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6761-12
Misc. Info.: 500mL; 34000234
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 29-Mar-2014 11:09:01 Calib Date: 28-Mar-2014 15:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032802.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: ortizam Date: 29-Mar-2014 11:09:54

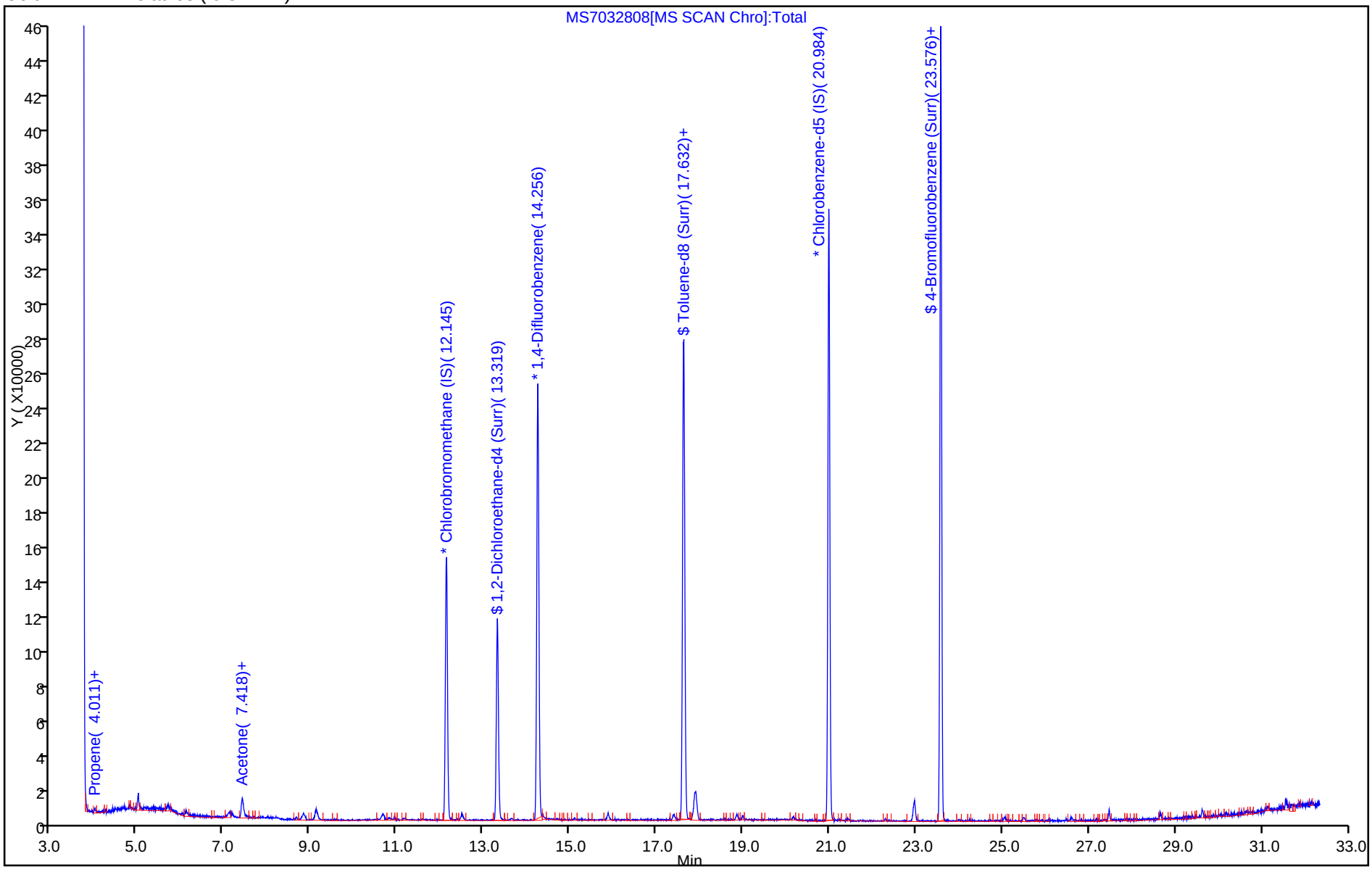
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.145	12.126	0.019	90	82708	4.00	
* 2 1,4-Difluorobenzene	114	14.256	14.250	0.006	90	330600	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.990	20.990	0.0	85	318476	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.319	13.313	0.006	0	149554	4.02	
$ 5 Toluene-d8 (Surr)	100	17.620	17.632	-0.012	88	220693	4.02	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.576	0.0	89	241845	3.90	
14 Propene	41	3.999	3.962	0.037	91	1487	0.0283	
31 Acetone	43	7.418	7.375	0.043	90	31021	0.2774	

Report Date: 29-Mar-2014 11:09:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032808.d				
Injection Date:	28-Mar-2014 21:31:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6761-A-12	Lab Sample ID:	320-6761-12	Worklist Smp#:	8
Client ID:	34000234				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

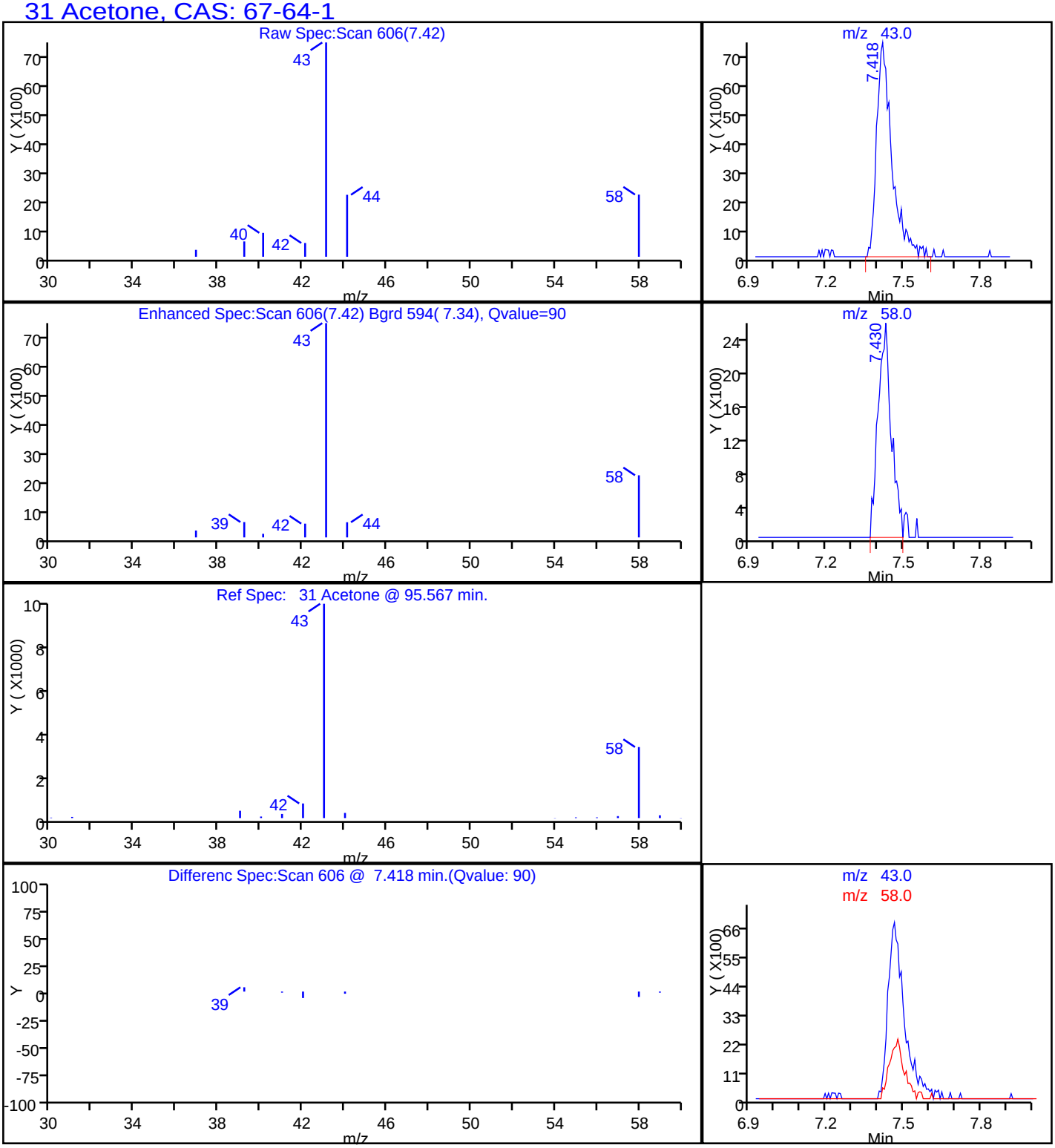


Report Date: 29-Mar-2014 11:09:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140328-11446.b\MS7032808.d				
Injection Date:	28-Mar-2014 21:31:30	Instrument ID:	ATMS7		
Lims ID:	320-6761-A-12	Lab Sample ID:	320-6761-12		
Client ID:	34000234				
Operator ID:	AO	ALS Bottle#:	4	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000906 | Lab Sample ID: 320-6793-1

Matrix: Air | Lab File ID: MS7032906.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.31	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000906 | Lab Sample ID: 320-6793-1

Matrix: Air | Lab File ID: MS7032906.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 15:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000906 Lab Sample ID: 320-6793-1

Matrix: Air Lab File ID: MS7032906.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 15:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86	*	70-130
2037-26-5	Toluene-d8 (Surr)	86	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032906.d
Lims ID: 320-6793-A-1 Lab Sample ID: 320-6793-1
Client ID: 34000906
Sample Type: Client
Inject. Date: 29-Mar-2014 15:28:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6794-9
Misc. Info.: 500mL; 34000773
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:22:50 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:23:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.157	12.145	0.012	87	76465	4.00	s
* 2 1,4-Difluorobenzene	114	14.268	14.262	0.006	90	299076	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.996	20.990	0.006	86	278536	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.331	13.325	0.006	0	134967	3.45	
$ 5 Toluene-d8 (Surr)	100	17.638	17.626	0.012	88	202892	3.43	
$ 6 4-Bromofluorobenzene (Surr)	95	23.588	23.582	0.006	90	210733	3.65	
31 Acetone	43	7.424	7.400	0.024	95	44944	0.3087	

QC Flag Legend

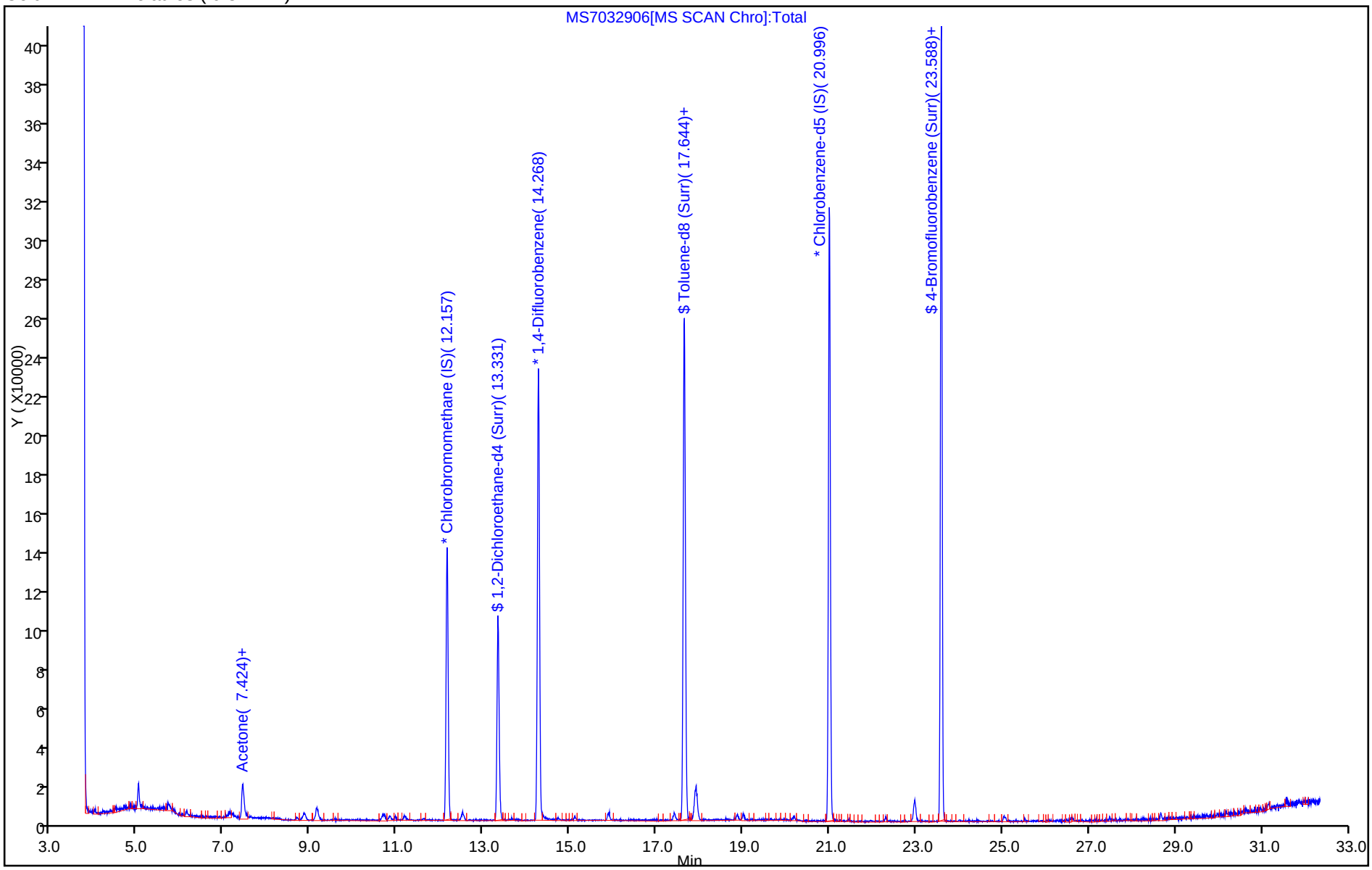
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:23:19 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032906.d				
Injection Date:	29-Mar-2014 15:28:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-1	Lab Sample ID:	320-6793-1	Worklist Smp#:	6
Client ID:	34000906				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

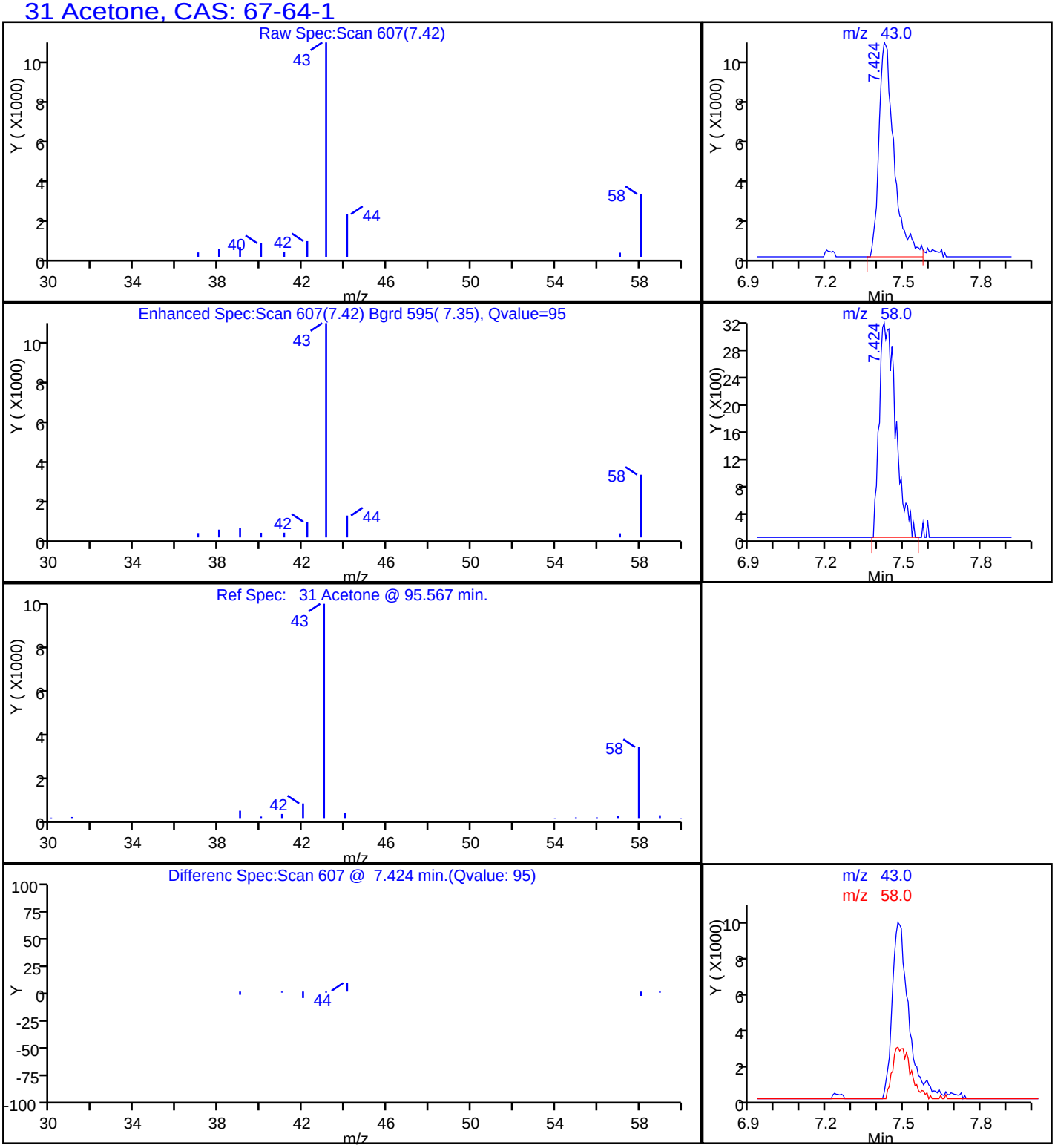


Report Date: 31-Mar-2014 10:23:20 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032906.d				
Injection Date:	29-Mar-2014 15:28:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-1	Lab Sample ID:	320-6793-1		
Client ID:	34000906				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001064 | Lab Sample ID: 320-6793-2

Matrix: Air | Lab File ID: MS7032910.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 19:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.3	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001064 | Lab Sample ID: 320-6793-2

Matrix: Air | Lab File ID: MS7032910.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 19:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001064 Lab Sample ID: 320-6793-2

Matrix: Air Lab File ID: MS7032910.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 19:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88	*	70-130
2037-26-5	Toluene-d8 (Surr)	84	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032910.d
Lims ID: 320-6793-A-2 Lab Sample ID: 320-6793-2
Client ID: 34001064
Sample Type: Client
Inject. Date: 29-Mar-2014 19:17:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-2
Misc. Info.: 500mL; 34001064
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:24:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.157	12.145	0.012	90	74745	4.00	s
* 2 1,4-Difluorobenzene	114	14.268	14.262	0.006	90	299815	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.996	20.990	0.006	87	281183	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.325	13.325	0.0	0	137922	3.52	
$ 5 Toluene-d8 (Surr)	100	17.638	17.626	0.012	88	200325	3.38	
$ 6 4-Bromofluorobenzene (Surr)	95	23.588	23.582	0.006	90	210634	3.61	
31 Acetone	43	7.394	7.400	-0.006	97	188772	1.33	

QC Flag Legend

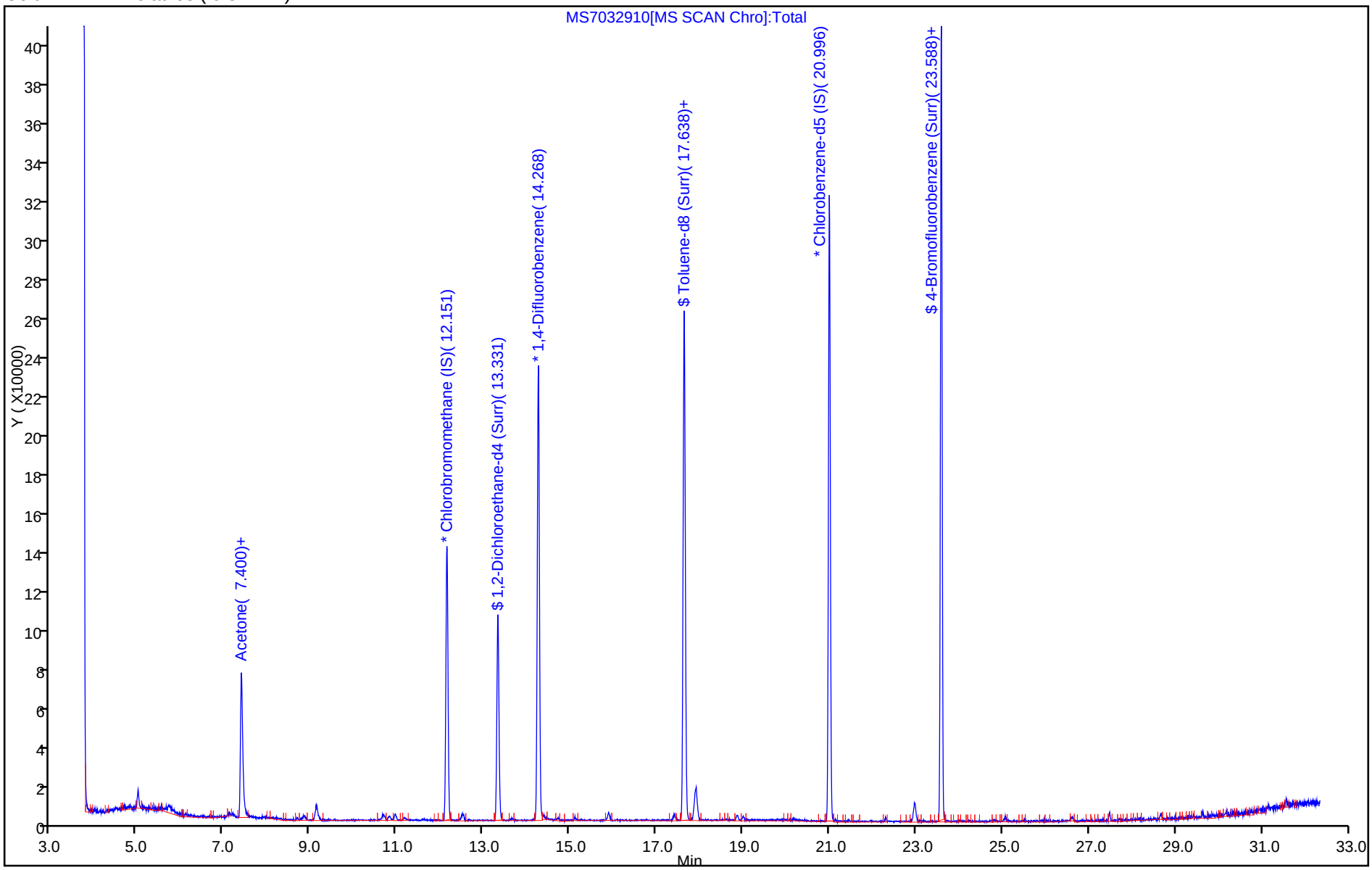
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:24:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032910.d				
Injection Date:	29-Mar-2014 19:17:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-2	Lab Sample ID:	320-6793-2	Worklist Smp#:	10
Client ID:	34001064				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

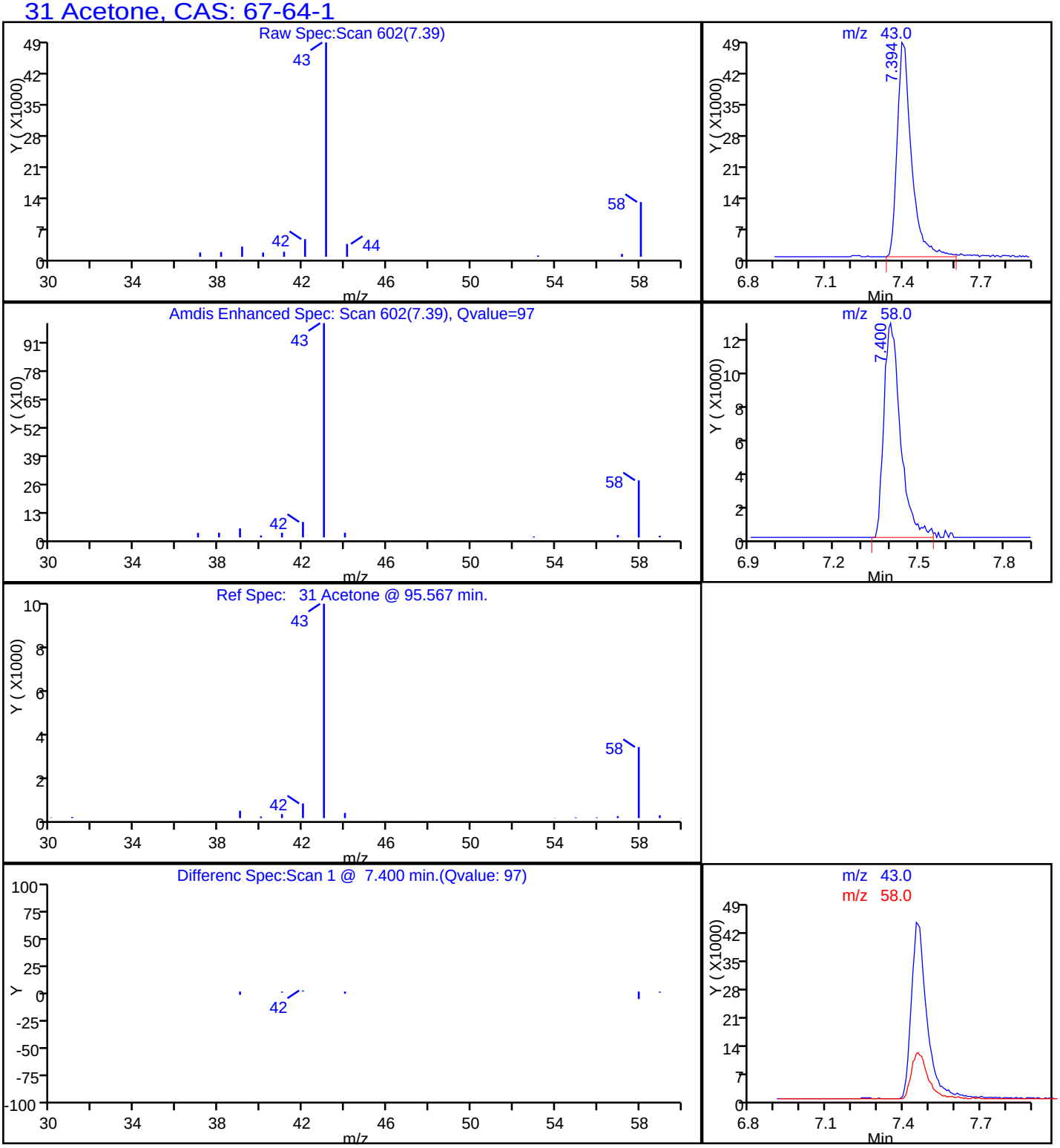


Report Date: 31-Mar-2014 10:24:23 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032910.d				
Injection Date:	29-Mar-2014 19:17:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-2	Lab Sample ID:	320-6793-2		
Client ID:	34001064				
Operator ID:	AO	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000653 | Lab Sample ID: 320-6793-3

Matrix: Air | Lab File ID: MS7032911.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 20:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND	*	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000653 | Lab Sample ID: 320-6793-3

Matrix: Air | Lab File ID: MS7032911.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 20:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000653 Lab Sample ID: 320-6793-3

Matrix: Air Lab File ID: MS7032911.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 20:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88	*	70-130
2037-26-5	Toluene-d8 (Surr)	85	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032911.d
Lims ID: 320-6793-A-3 Lab Sample ID: 320-6793-3
Client ID: 34000653
Sample Type: Client
Inject. Date: 29-Mar-2014 20:17:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-3
Misc. Info.: 500mL; 34000653
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:24:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.145	12.145	0.0	88	72396	4.00	s
* 2 1,4-Difluorobenzene	114	14.262	14.262	0.0	90	290715	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.990	20.990	0.0	87	269157	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.319	13.325	-0.006	0	133132	3.50	
$ 5 Toluene-d8 (Surr)	100	17.632	17.626	0.006	88	194963	3.39	
$ 6 4-Bromofluorobenzene (Surr)	95	23.582	23.582	0.0	90	199607	3.58	
31 Acetone	43	7.412	7.400	0.012	89	21259	0.1542	
47 Methylene Chloride	49	8.671	8.677	-0.006	55	2411	0.0266	

QC Flag Legend

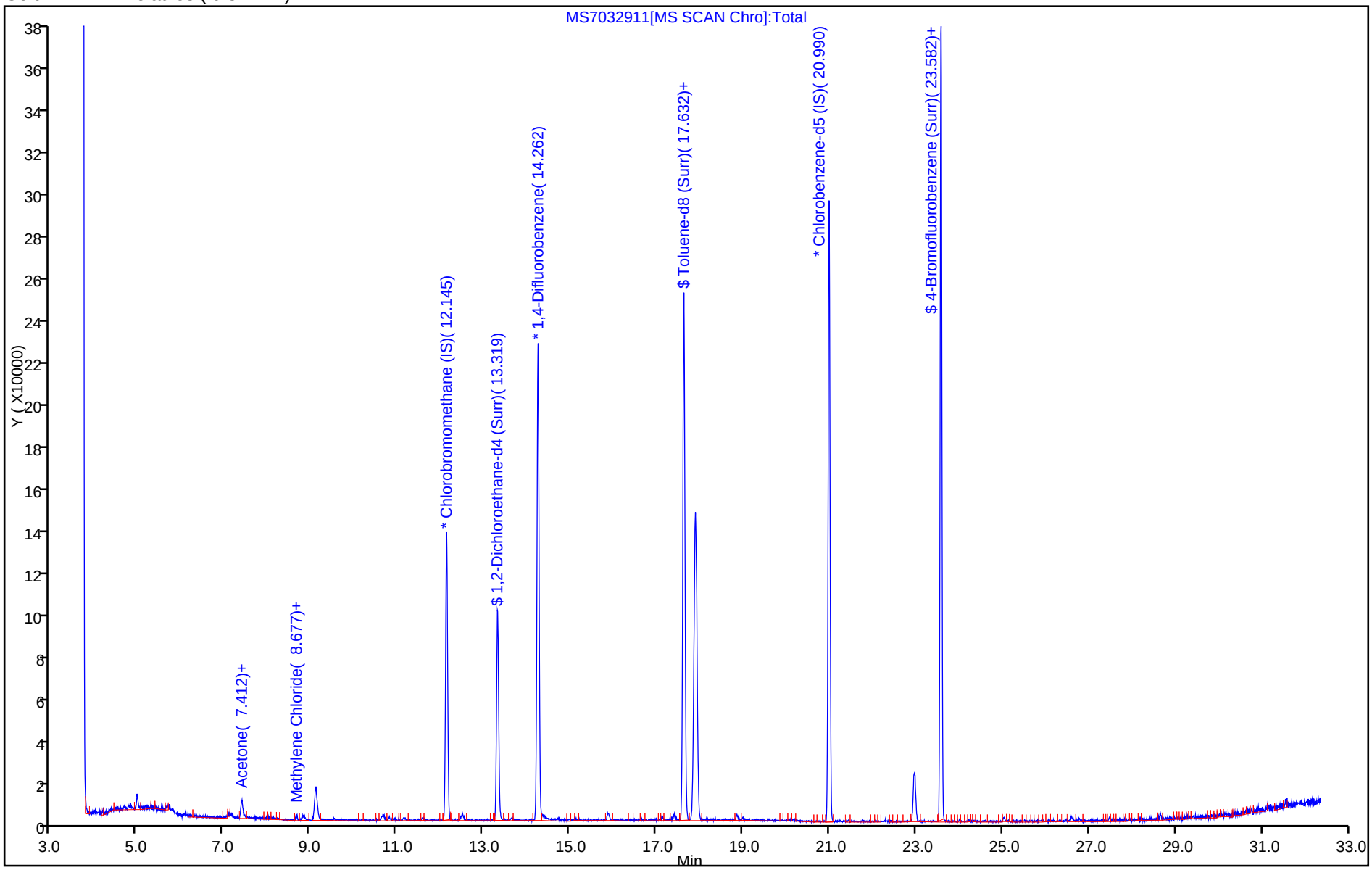
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:24:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032911.d				
Injection Date:	29-Mar-2014 20:17:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-3	Lab Sample ID:	320-6793-3	Worklist Smp#:	11
Client ID:	34000653				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001054 | Lab Sample ID: 320-6793-4

Matrix: Air | Lab File ID: MS7032912.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 21:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.65	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001054 | Lab Sample ID: 320-6793-4

Matrix: Air | Lab File ID: MS7032912.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 21:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001054 Lab Sample ID: 320-6793-4

Matrix: Air Lab File ID: MS7032912.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 21:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88	*	70-130
2037-26-5	Toluene-d8 (Surr)	85	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032912.d
Lims ID: 320-6793-A-4 Lab Sample ID: 320-6793-4
Client ID: 34001054
Sample Type: Client
Inject. Date: 29-Mar-2014 21:15:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-4
Misc. Info.: 500mL; 34001054
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.139	12.145	-0.006	90	72220	4.00	s
* 2 1,4-Difluorobenzene	114	14.262	14.262	0.0	90	289556	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.990	20.990	0.0	88	267267	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.325	13.325	0.0	0	133644	3.53	
$ 5 Toluene-d8 (Surr)	100	17.626	17.626	0.0	88	195133	3.40	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.582	-0.006	89	206507	3.73	
14 Propene	41	4.005	3.993	0.012	89	1561	0.0239	
31 Acetone	43	7.387	7.400	-0.013	97	89322	0.6496	
54 2-Butanone (MEK)	72	11.141	11.117	0.024	87	2345	0.0780	
72 1,4-Dioxane	88	15.831	15.819	0.012	1	1136	0.0289	
87 2-Hexanone	58	18.587	18.581	0.006	67	2915	0.0531	

QC Flag Legend

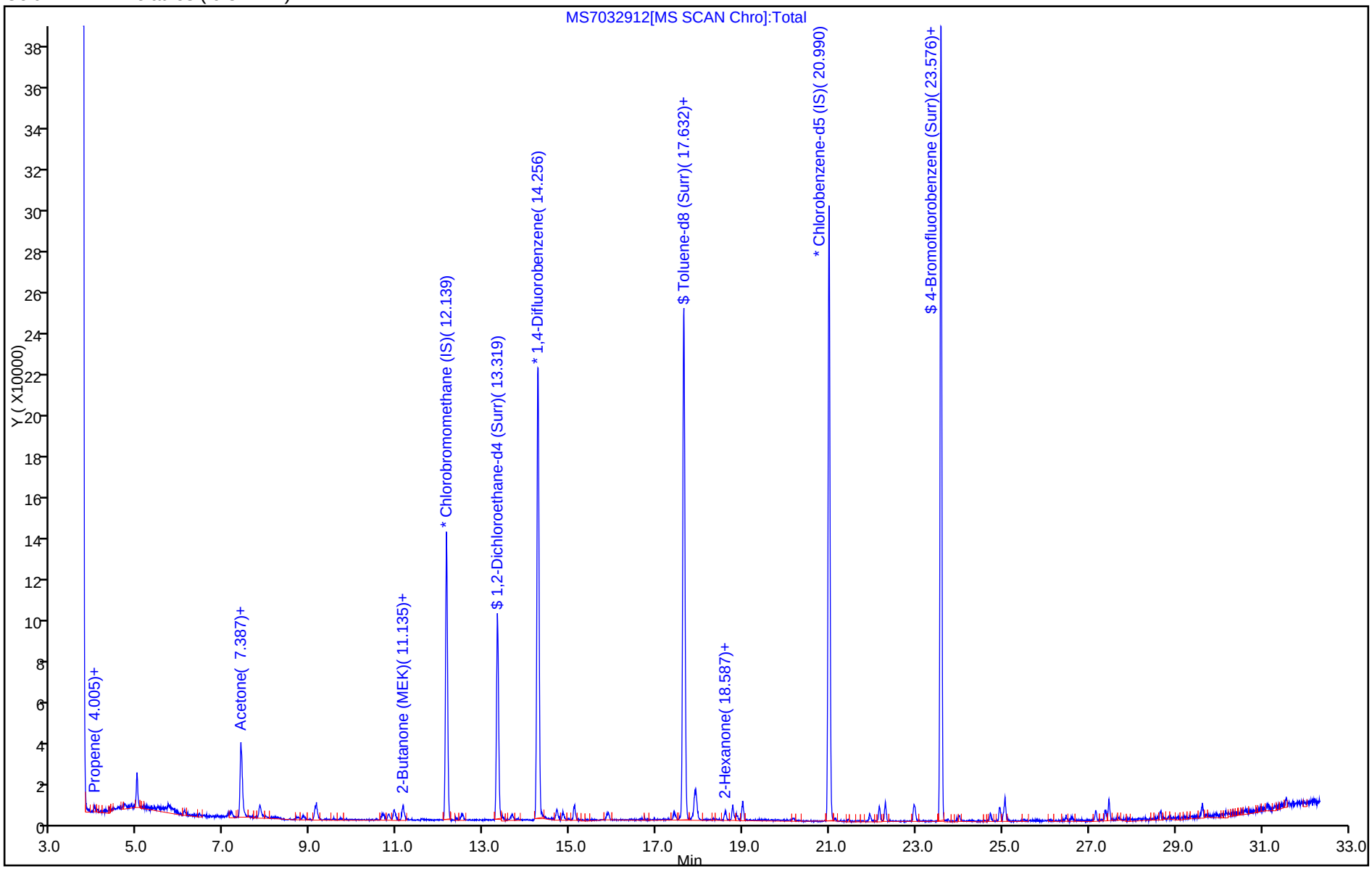
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:02 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032912.d				
Injection Date:	29-Mar-2014 21:15:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-4	Lab Sample ID:	320-6793-4	Worklist Smp#:	12
Client ID:	34001054				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

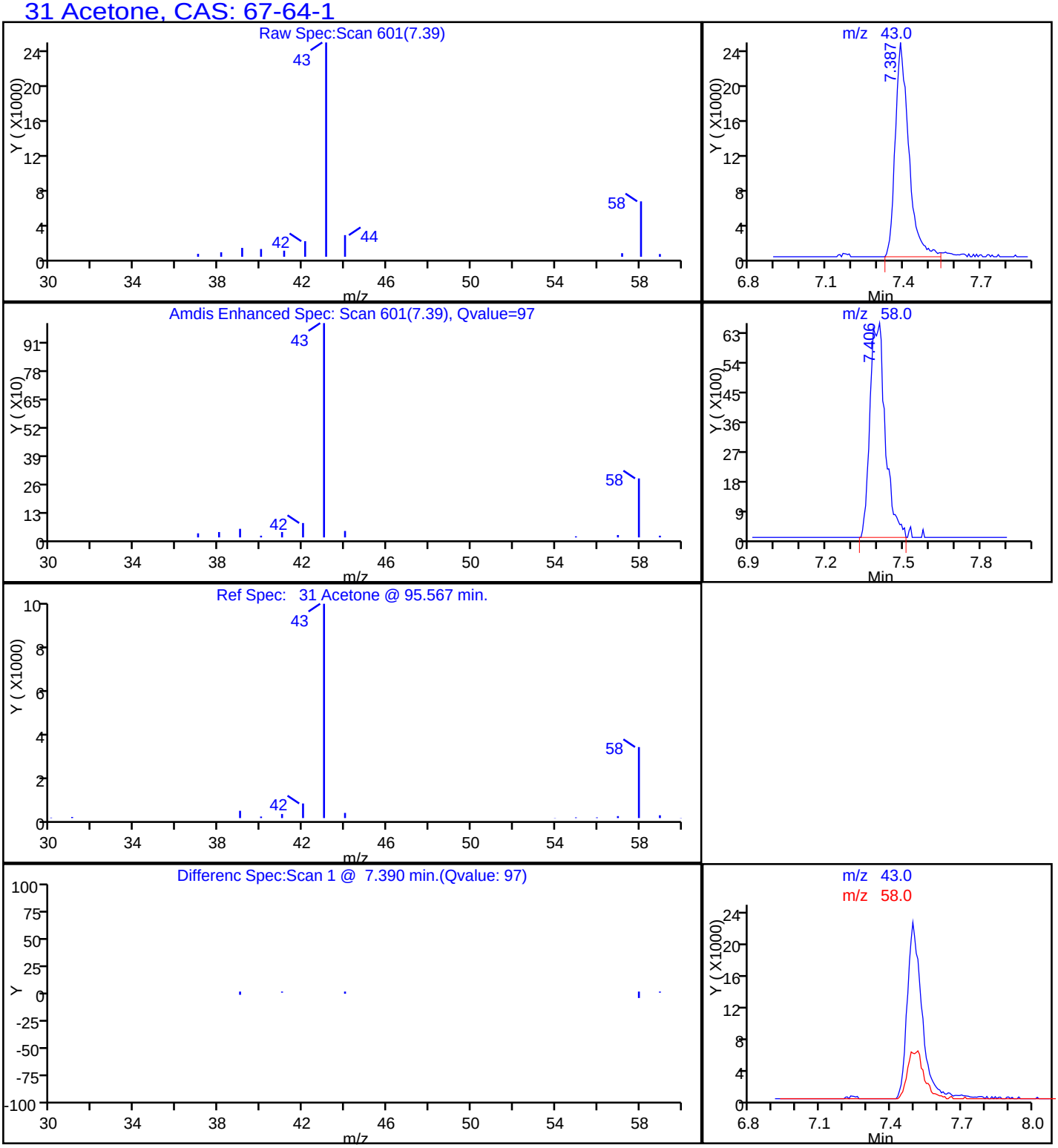


Report Date: 31-Mar-2014 10:25:02 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032912.d				
Injection Date:	29-Mar-2014 21:15:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-4	Lab Sample ID:	320-6793-4		
Client ID:	34001054				
Operator ID:	AO	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001059 | Lab Sample ID: 320-6793-5

Matrix: Air | Lab File ID: MS7032913.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.38	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001059 | Lab Sample ID: 320-6793-5

Matrix: Air | Lab File ID: MS7032913.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 22:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001059 Lab Sample ID: 320-6793-5

Matrix: Air Lab File ID: MS7032913.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 22:14

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90	*	70-130
2037-26-5	Toluene-d8 (Surr)	85	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032913.d
Lims ID: 320-6793-A-5 Lab Sample ID: 320-6793-5
Client ID: 34001059
Sample Type: Client
Inject. Date: 29-Mar-2014 22:14:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-5
Misc. Info.: 500mL; 34001059
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.145	12.145	0.0	90	72849	4.00	s
* 2 1,4-Difluorobenzene	114	14.262	14.262	0.0	89	287171	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.990	20.990	0.0	88	272424	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.325	13.325	0.0	0	135092	3.60	
$ 5 Toluene-d8 (Surr)	100	17.626	17.626	0.0	88	193382	3.40	
$ 6 4-Bromofluorobenzene (Surr)	95	23.576	23.582	-0.006	90	206927	3.66	
31 Acetone	43	7.406	7.400	0.006	95	52752	0.3804	

QC Flag Legend

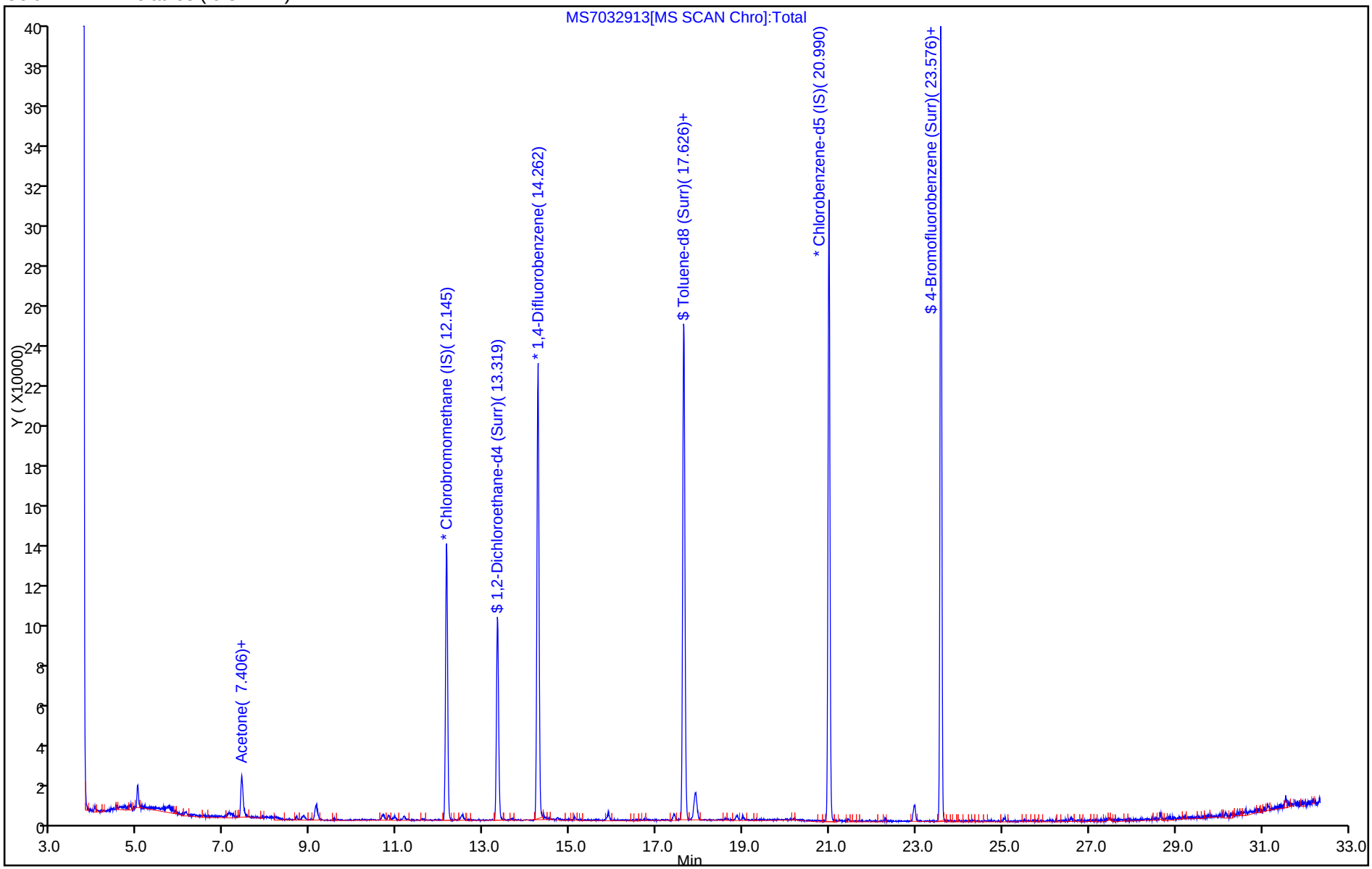
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032913.d				
Injection Date:	29-Mar-2014 22:14:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-5	Lab Sample ID:	320-6793-5	Worklist Smp#:	13
Client ID:	34001059				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

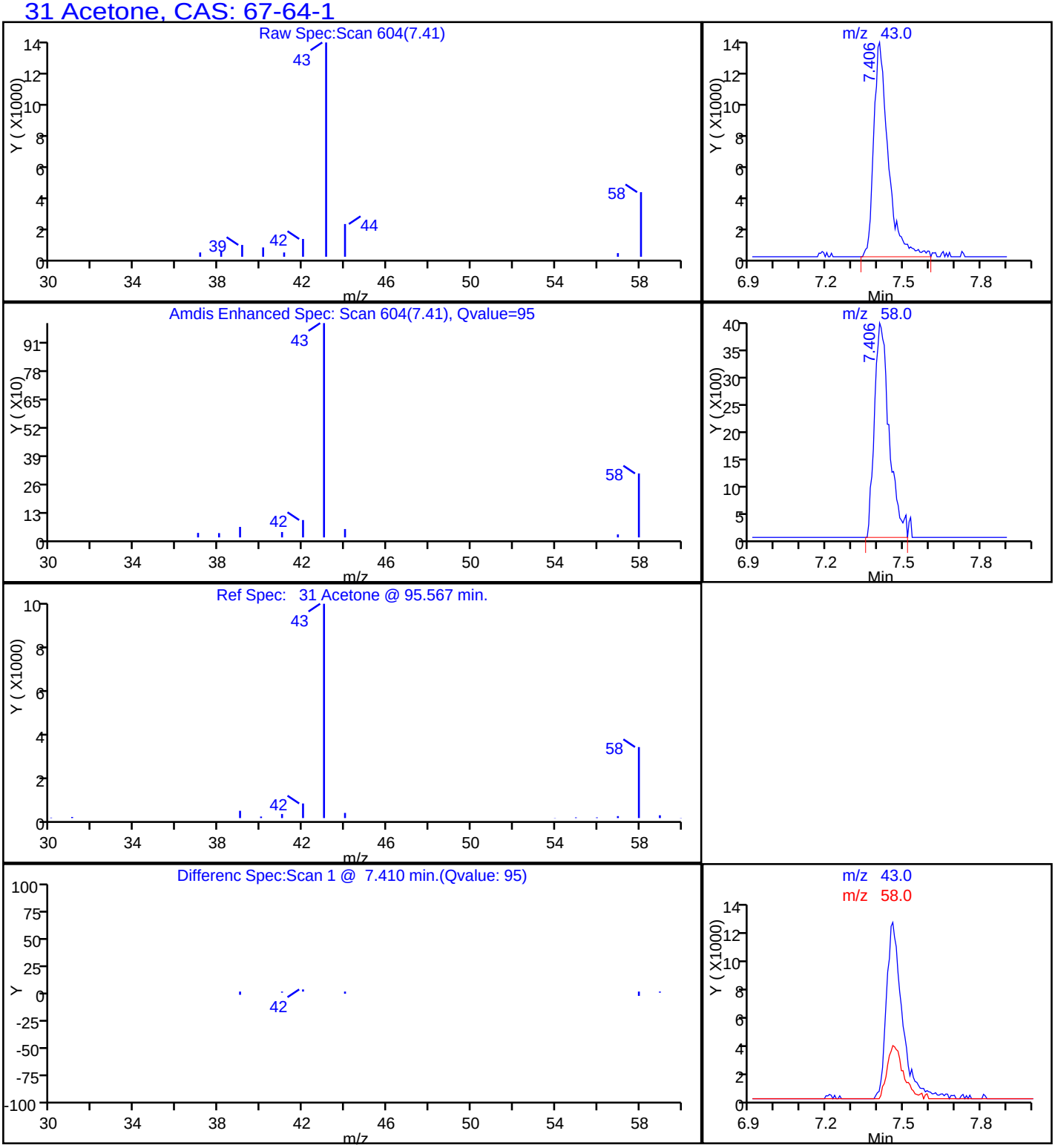


Report Date: 31-Mar-2014 10:25:07 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032913.d				
Injection Date:	29-Mar-2014 22:14:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-5	Lab Sample ID:	320-6793-5		
Client ID:	34001059				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000756 | Lab Sample ID: 320-6793-6

Matrix: Air | Lab File ID: MS7032914.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 23:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.99	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000756 | Lab Sample ID: 320-6793-6

Matrix: Air | Lab File ID: MS7032914.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 23:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	0.28	J *	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000756 Lab Sample ID: 320-6793-6

Matrix: Air Lab File ID: MS7032914.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 23:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89	*	70-130
2037-26-5	Toluene-d8 (Surr)	84	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032914.d
Lims ID: 320-6793-A-6 Lab Sample ID: 320-6793-6
Client ID: 34000756
Sample Type: Client
Inject. Date: 29-Mar-2014 23:16:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-6
Misc. Info.: 500mL; 34000756
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.139	12.145	-0.006	90	70167	4.00	s
* 2 1,4-Difluorobenzene	114	14.256	14.262	-0.006	90	281785	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.990	-0.006	87	267552	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.319	13.325	-0.006	0	131229	3.56	
$ 5 Toluene-d8 (Surr)	100	17.620	17.626	-0.006	88	186983	3.35	
$ 6 4-Bromofluorobenzene (Surr)	95	23.570	23.582	-0.012	90	205456	3.71	
14 Propene	41	4.023	3.993	0.030	92	5802	0.0913	
15 Dichlorodifluoromethane	85	4.078	4.054	0.024	66	9034	0.0498	
18 Chloromethane	50	4.522	4.498	0.024	55	6425	0.0998	
22 Butane	43	4.735	4.717	0.018	79	5746	0.0554	
29 Acrolein	56	7.235	7.242	-0.007	32	1754	0.0795	
31 Acetone	43	7.388	7.400	-0.012	98	132583	0.99	
47 Methylene Chloride	49	8.671	8.677	-0.006	87	24158	0.2755	
54 2-Butanone (MEK)	72	11.141	11.117	0.024	83	3401	0.1164	
58 Ethyl acetate	43	11.579	11.567	0.012	58	9056	0.0515	
68 Benzene	78	13.641	13.654	-0.013	40	5170	0.0284	
85 Toluene	91	17.803	17.815	-0.012	41	6674	0.0311	
87 2-Hexanone	58	18.581	18.581	0.0	11	1440	0.0262	

QC Flag Legend

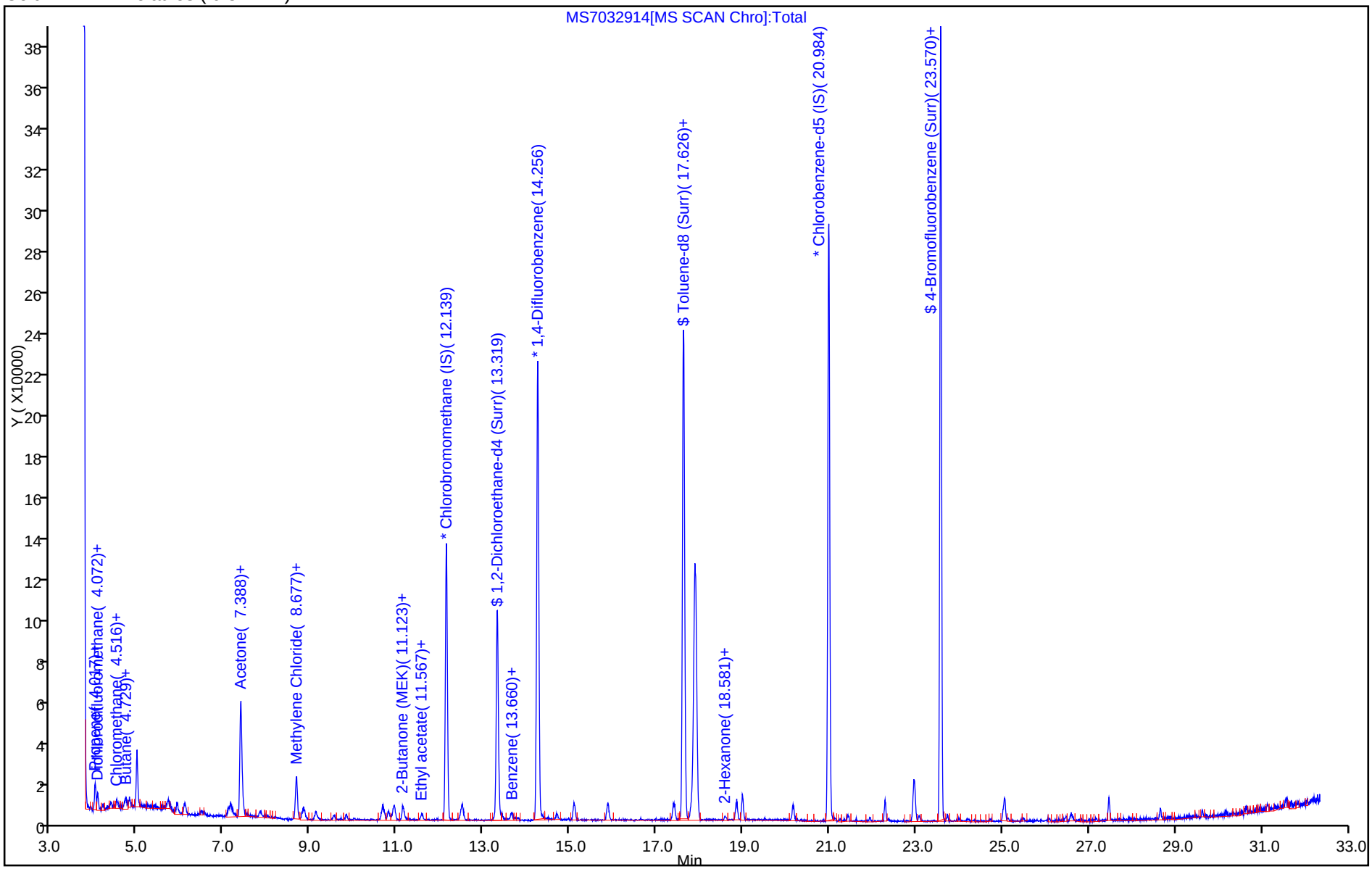
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:17 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032914.d				
Injection Date:	29-Mar-2014 23:16:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-6	Lab Sample ID:	320-6793-6	Worklist Smp#:	14
Client ID:	34000756				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

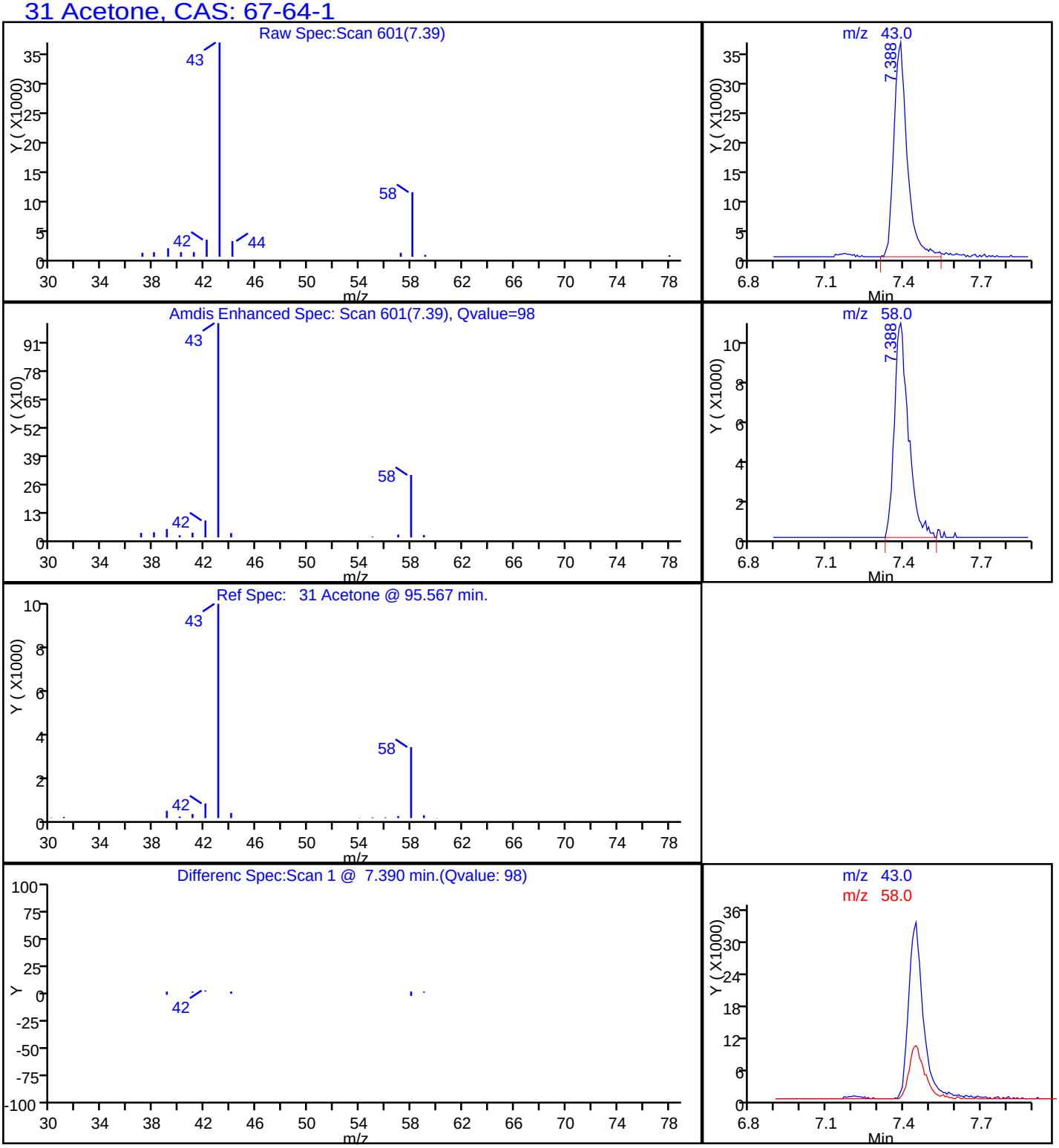


Report Date: 31-Mar-2014 10:25:17 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032914.d				
Injection Date:	29-Mar-2014 23:16:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-6	Lab Sample ID:	320-6793-6		
Client ID:	34000756				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

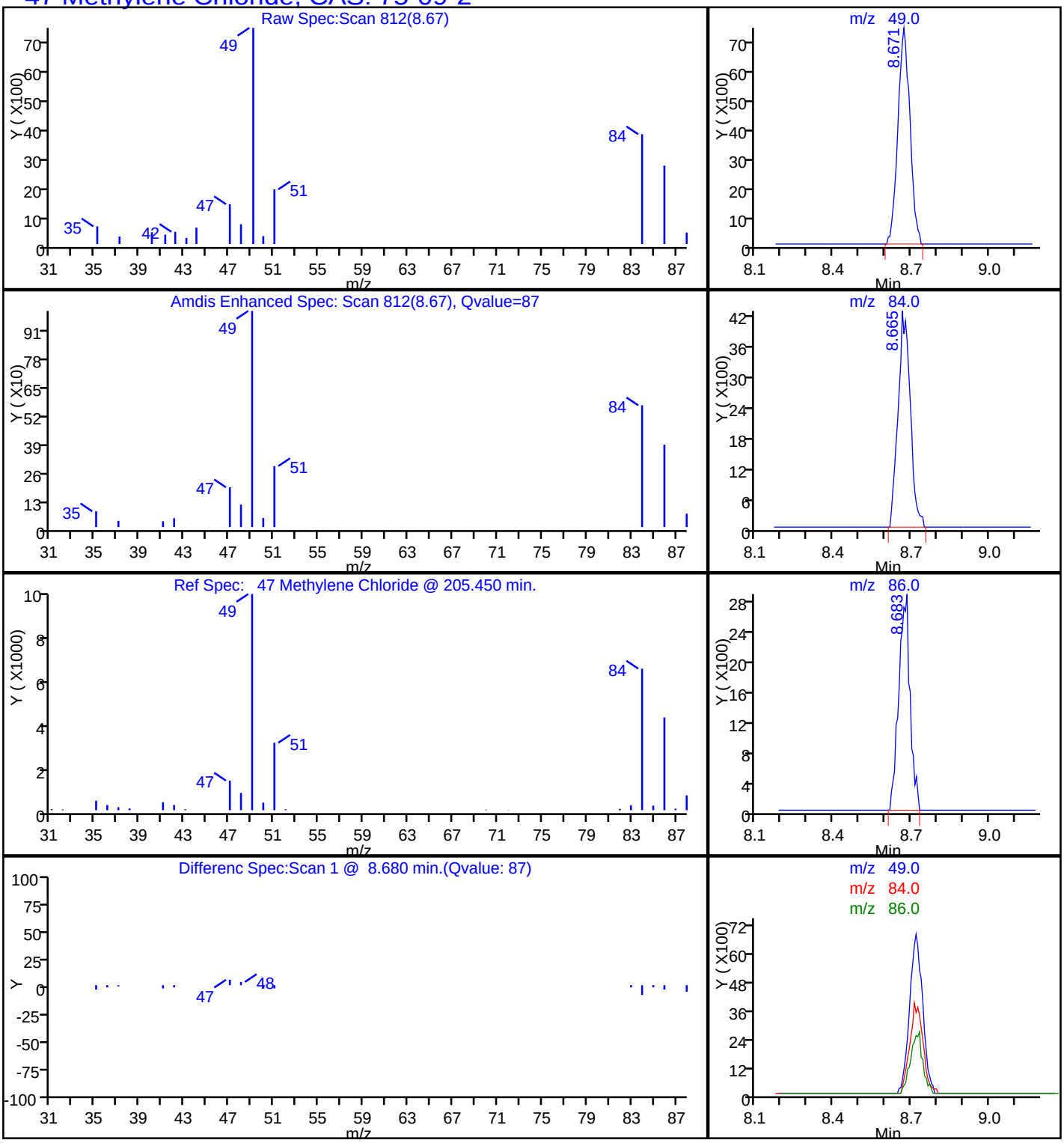


Report Date: 31-Mar-2014 10:25:17 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032914.d				
Injection Date:	29-Mar-2014 23:16:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-6	Lab Sample ID:	320-6793-6		
Client ID:	34000756				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

47 Methylene Chloride, CAS: 75-09-2



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000329 | Lab Sample ID: 320-6793-7

Matrix: Air | Lab File ID: MS7032915.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.25	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000329 | Lab Sample ID: 320-6793-7

Matrix: Air | Lab File ID: MS7032915.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 00:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000329 Lab Sample ID: 320-6793-7

Matrix: Air Lab File ID: MS7032915.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 00:13

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	91		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90	*	70-130
2037-26-5	Toluene-d8 (Surr)	83	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032915.d
Lims ID: 320-6793-A-7 Lab Sample ID: 320-6793-7
Client ID: 34000329
Sample Type: Client
Inject. Date: 30-Mar-2014 00:13:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-7
Misc. Info.: 500mL; 34000329
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.127	12.145	-0.018	91	72905	4.00	s
* 2 1,4-Difluorobenzene	114	14.244	14.262	-0.018	90	281235	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.990	-0.006	87	264758	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.307	13.325	-0.018	0	131829	3.59	
$ 5 Toluene-d8 (Surr)	100	17.614	17.626	-0.012	88	184429	3.31	
$ 6 4-Bromofluorobenzene (Surr)	95	23.570	23.582	-0.012	90	199974	3.64	
31 Acetone	43	7.388	7.400	-0.012	90	34822	0.2509	
47 Methylene Chloride	49	8.653	8.677	-0.024	65	5699	0.0625	

QC Flag Legend

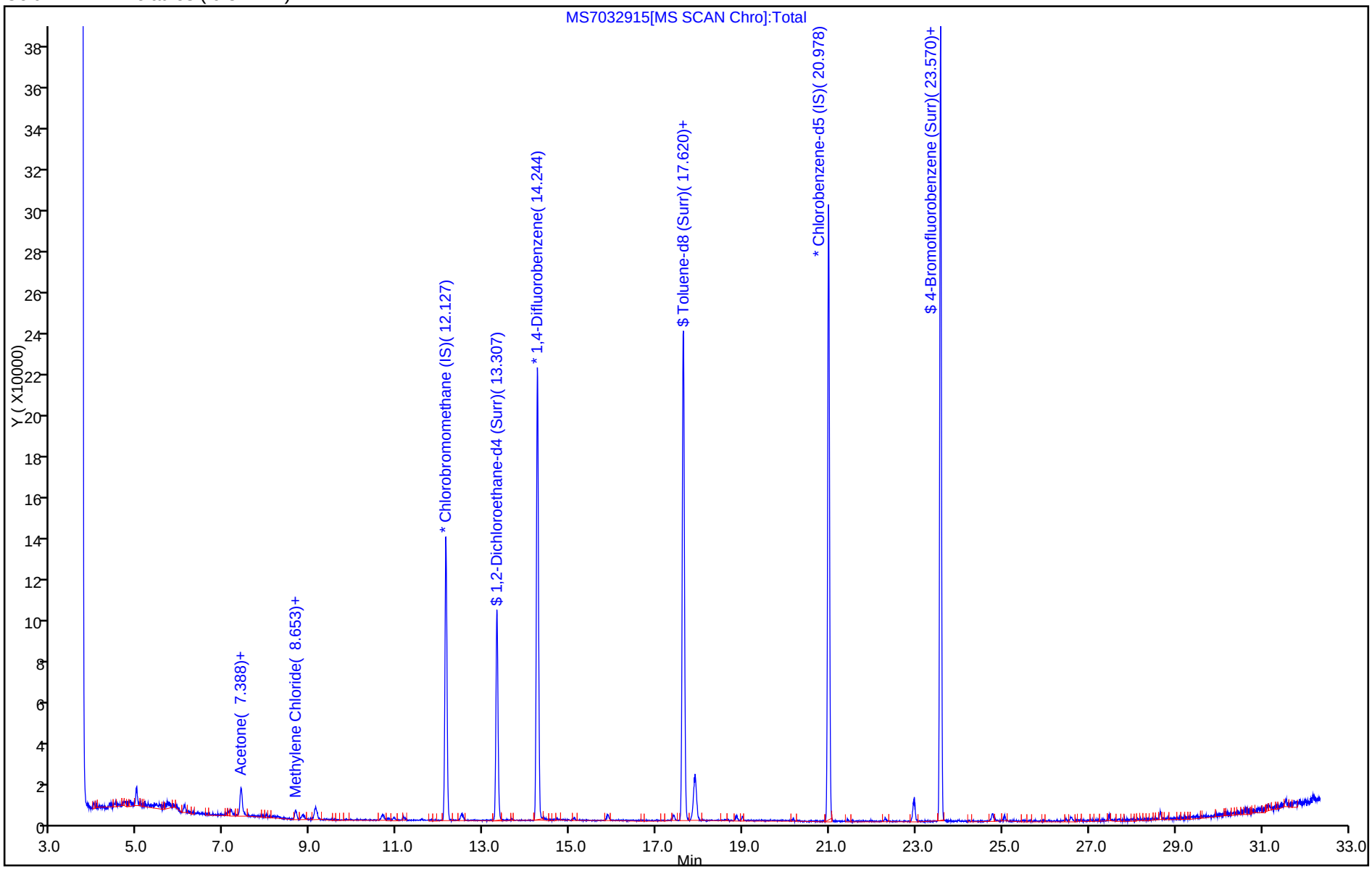
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032915.d				
Injection Date:	30-Mar-2014 00:13:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-7	Lab Sample ID:	320-6793-7	Worklist Smp#:	15
Client ID:	34000329				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

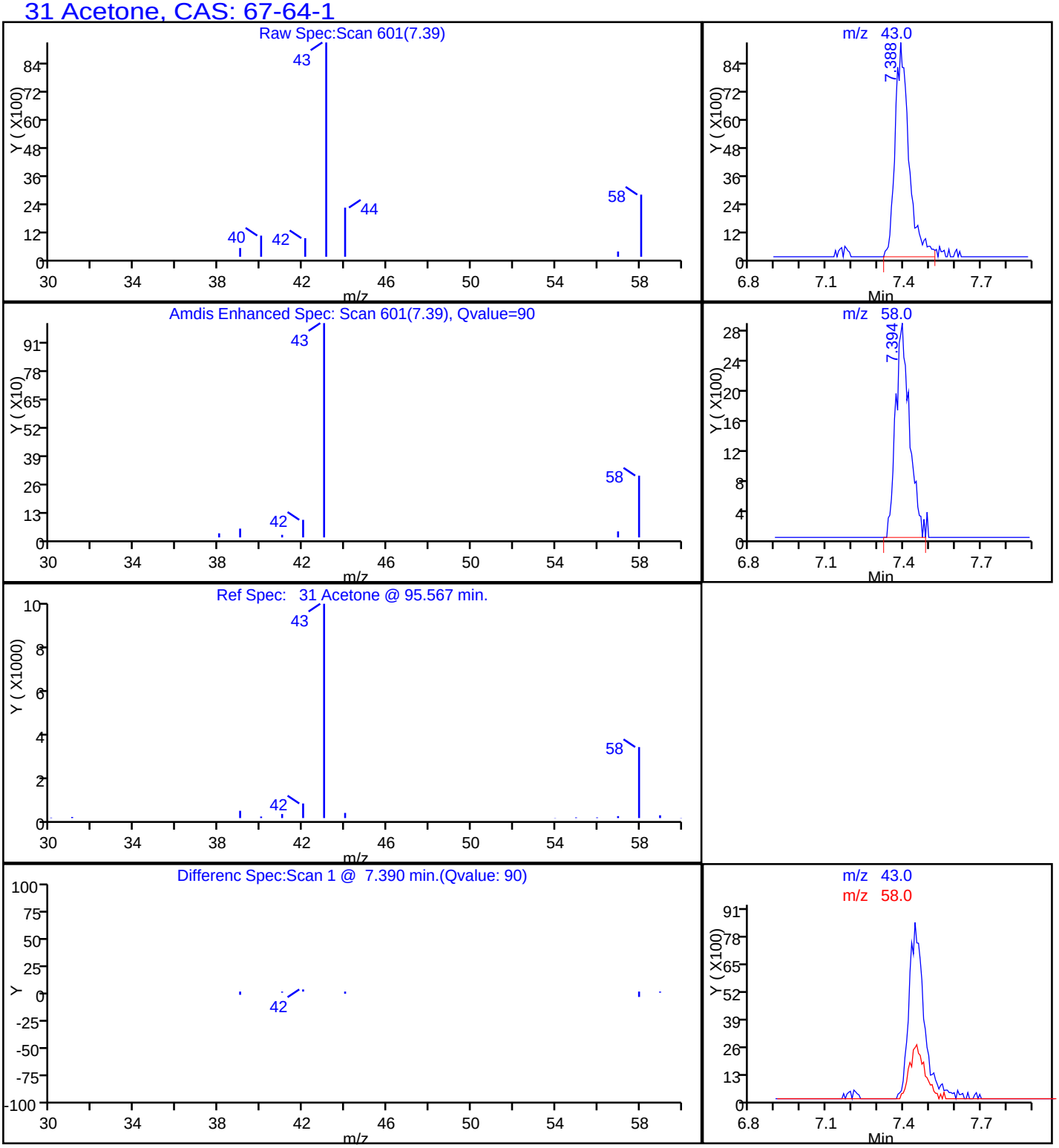


Report Date: 31-Mar-2014 10:25:21 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032915.d				
Injection Date:	30-Mar-2014 00:13:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-7	Lab Sample ID:	320-6793-7		
Client ID:	34000329				
Operator ID:	AO	ALS Bottle#:	14	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000643 | Lab Sample ID: 320-6793-8

Matrix: Air | Lab File ID: MS7032916.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 01:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.48	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000643 | Lab Sample ID: 320-6793-8

Matrix: Air | Lab File ID: MS7032916.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 01:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000643 Lab Sample ID: 320-6793-8

Matrix: Air Lab File ID: MS7032916.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90	*	70-130
2037-26-5	Toluene-d8 (Surr)	84	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032916.d
Lims ID: 320-6793-A-8 Lab Sample ID: 320-6793-8
Client ID: 34000643
Sample Type: Client
Inject. Date: 30-Mar-2014 01:12:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-8
Misc. Info.: 500mL; 34000643
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.127	12.145	-0.018	89	67992	4.00	s
* 2 1,4-Difluorobenzene	114	14.244	14.262	-0.018	90	278004	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.972	20.990	-0.018	85	267764	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.307	13.325	-0.018	0	130912	3.60	
$ 5 Toluene-d8 (Surr)	100	17.614	17.626	-0.012	90	184186	3.35	
$ 6 4-Bromofluorobenzene (Surr)	95	23.564	23.582	-0.018	90	197415	3.56	
18 Chloromethane	50	4.516	4.498	0.018	1	1457	0.0234	
31 Acetone	43	7.400	7.400	0.0	89	62660	0.4841	

QC Flag Legend

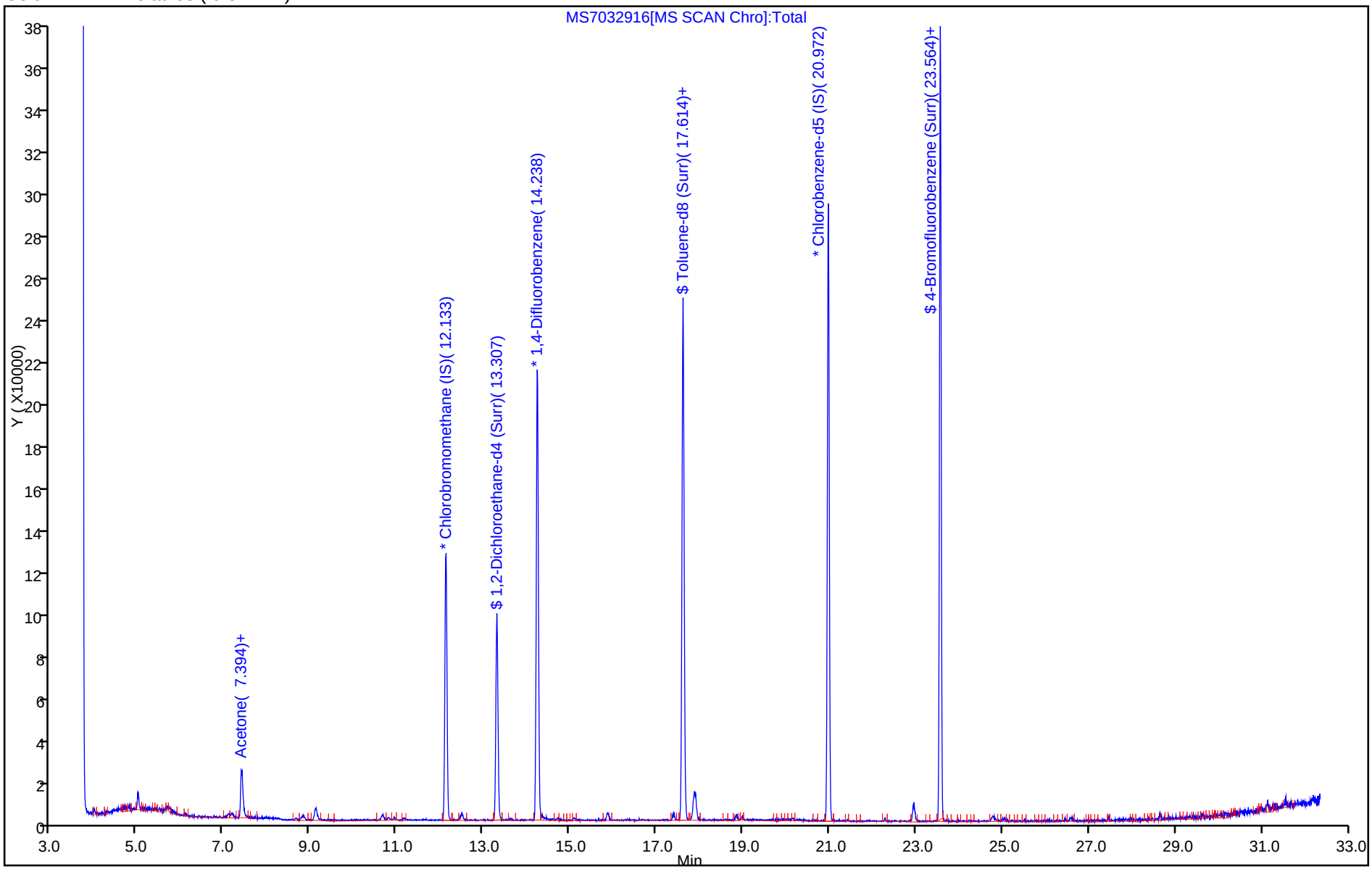
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:25 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032916.d				
Injection Date:	30-Mar-2014 01:12:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-8	Lab Sample ID:	320-6793-8	Worklist Smp#:	16
Client ID:	34000643				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

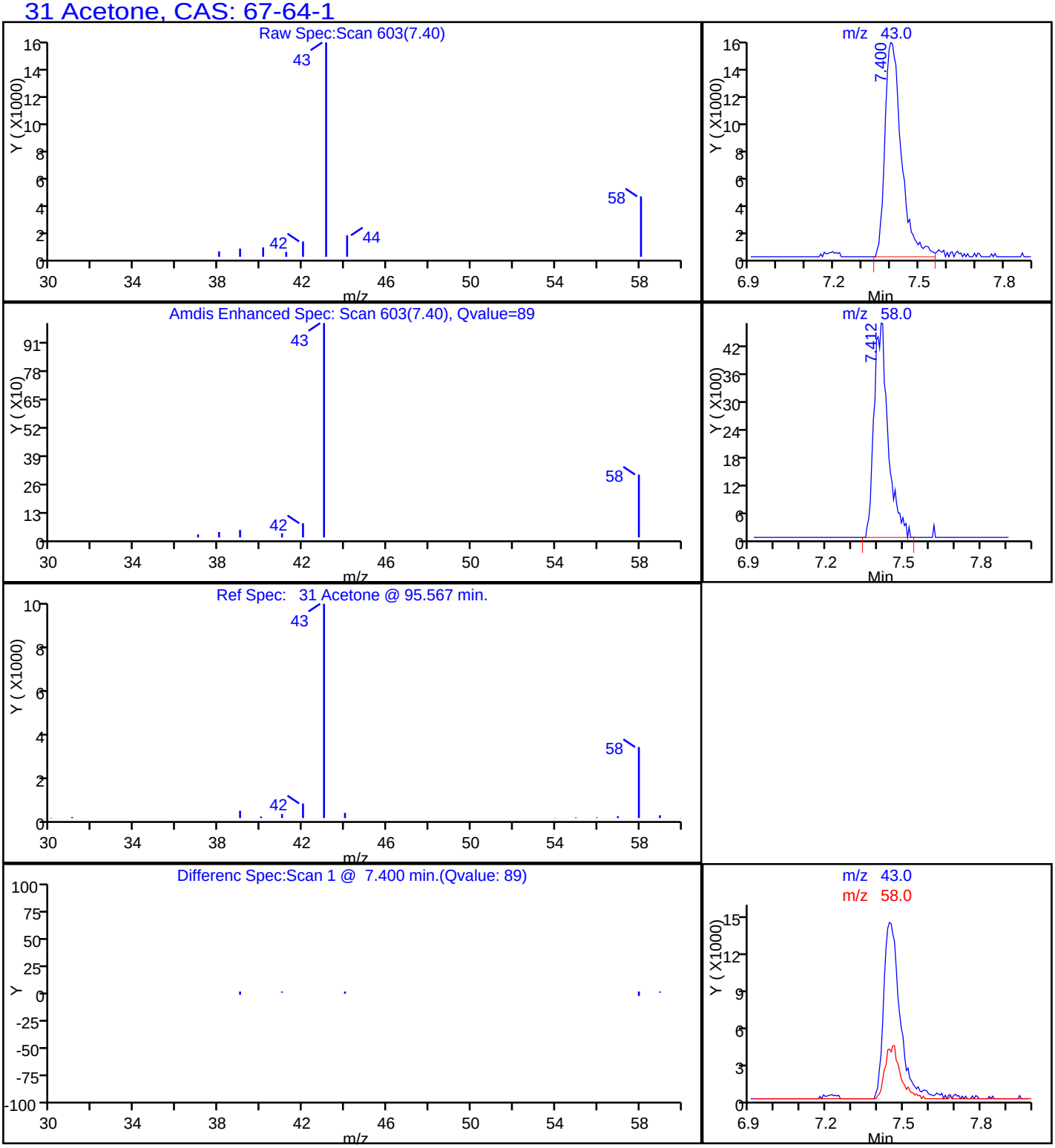


Report Date: 31-Mar-2014 10:25:25 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032916.d				
Injection Date:	30-Mar-2014 01:12:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-8	Lab Sample ID:	320-6793-8		
Client ID:	34000643				
Operator ID:	AO	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001085 | Lab Sample ID: 320-6793-9

Matrix: Air | Lab File ID: MS7032917.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 02:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.22	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001085 | Lab Sample ID: 320-6793-9

Matrix: Air | Lab File ID: MS7032917.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 02:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001085 Lab Sample ID: 320-6793-9

Matrix: Air Lab File ID: MS7032917.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 02:10

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90	*	70-130
2037-26-5	Toluene-d8 (Surr)	84	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032917.d
Lims ID: 320-6793-A-9 Lab Sample ID: 320-6793-9
Client ID: 34001085
Sample Type: Client
Inject. Date: 30-Mar-2014 02:10:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-9
Misc. Info.: 500mL; 34001085
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.133	12.145	-0.012	90	68260	4.00	s
* 2 1,4-Difluorobenzene	114	14.237	14.262	-0.025	90	268931	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.990	-0.024	87	256866	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.301	13.325	-0.024	0	125997	3.58	
$ 5 Toluene-d8 (Surr)	100	17.608	17.626	-0.018	88	178851	3.36	
$ 6 4-Bromofluorobenzene (Surr)	95	23.564	23.582	-0.018	91	189322	3.56	
31 Acetone	43	7.412	7.400	0.012	91	29131	0.2242	

QC Flag Legend

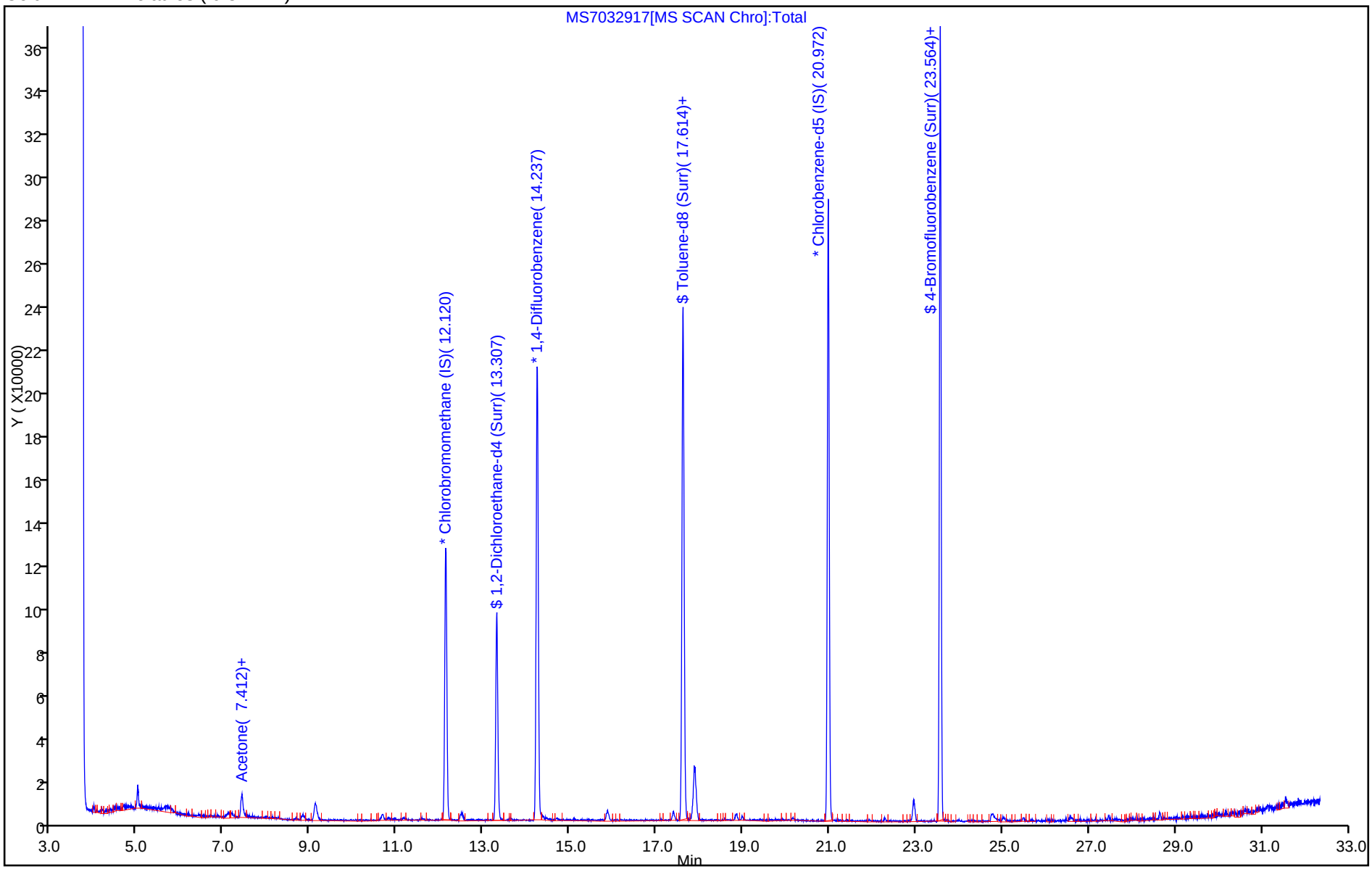
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032917.d				
Injection Date:	30-Mar-2014 02:10:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-9	Lab Sample ID:	320-6793-9	Worklist Smp#:	17
Client ID:	34001085				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

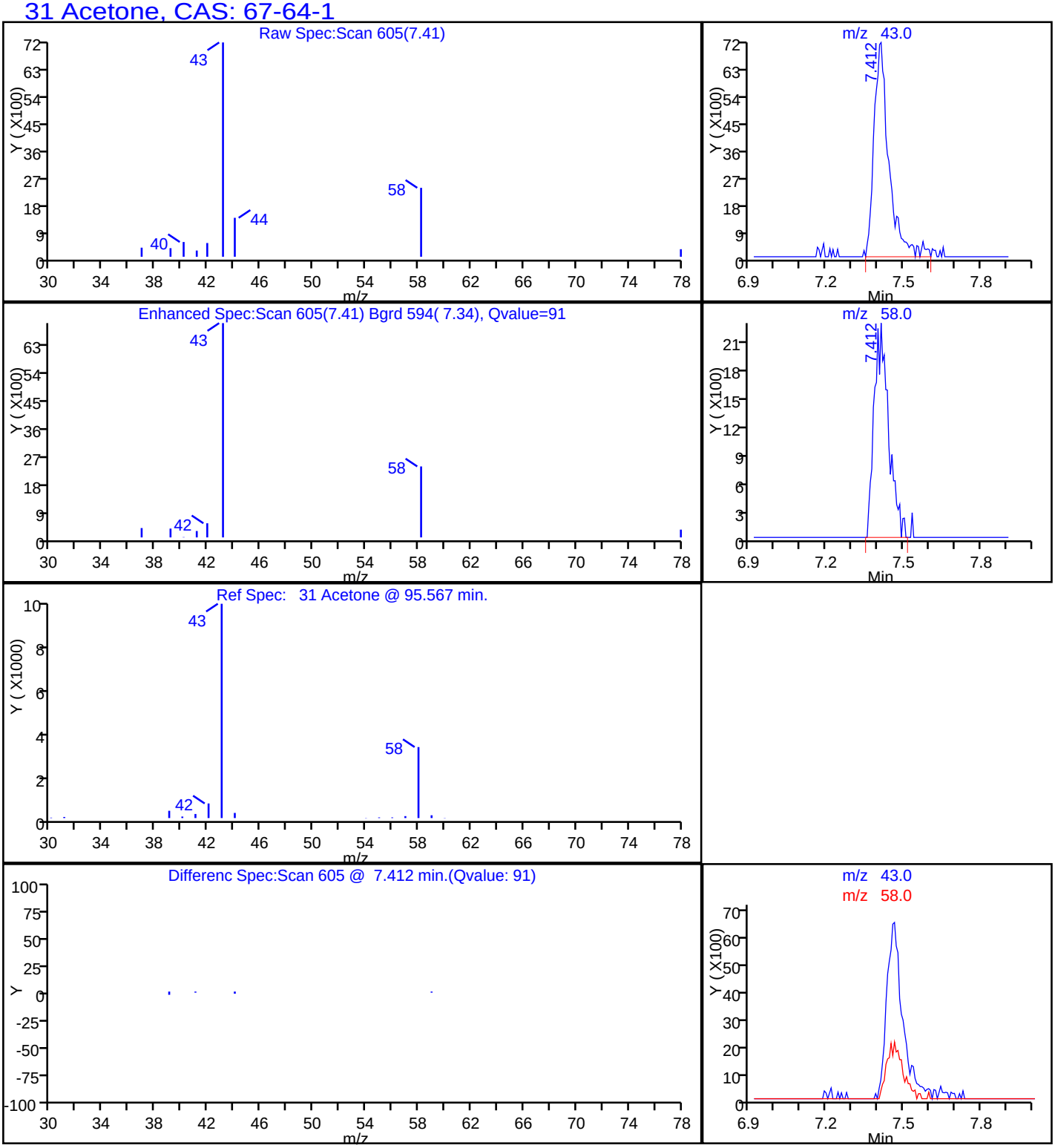


Report Date: 31-Mar-2014 10:25:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032917.d				
Injection Date:	30-Mar-2014 02:10:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-9	Lab Sample ID:	320-6793-9		
Client ID:	34001085				
Operator ID:	AO	ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001630 | Lab Sample ID: 320-6793-11

Matrix: Air | Lab File ID: MS7032919.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 04:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.42	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001630 | Lab Sample ID: 320-6793-11

Matrix: Air | Lab File ID: MS7032919.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 04:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	0.16	J *	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001630 Lab Sample ID: 320-6793-11

Matrix: Air Lab File ID: MS7032919.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 04:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	89		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91	*	70-130
2037-26-5	Toluene-d8 (Surr)	84	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032919.d
Lims ID: 320-6793-A-11 Lab Sample ID: 320-6793-11
Client ID: 34001630
Sample Type: Client
Inject. Date: 30-Mar-2014 04:12:30 ALS Bottle#: 6 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-11
Misc. Info.: 500mL; 34001630
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.114	12.145	-0.031	93	69143	4.00	s
* 2 1,4-Difluorobenzene	114	14.231	14.262	-0.031	90	273054	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.990	-0.024	86	258208	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.295	13.325	-0.030	0	129971	3.64	
$ 5 Toluene-d8 (Surr)	100	17.608	17.626	-0.018	88	180873	3.35	
$ 6 4-Bromofluorobenzene (Surr)	95	23.558	23.582	-0.024	90	191486	3.58	
14 Propene	41	3.981	3.993	-0.012	82	2106	0.0336	
15 Dichlorodifluoromethane	85	4.042	4.054	-0.012	44	4747	0.0266	
18 Chloromethane	50	4.486	4.498	-0.012	44	4218	0.0665	
31 Acetone	43	7.375	7.400	-0.025	93	55649	0.4227	
47 Methylene Chloride	49	8.647	8.677	-0.030	83	13736	0.1589	
54 2-Butanone (MEK)	72	11.123	11.117	0.006	61	657	0.0228	

QC Flag Legend

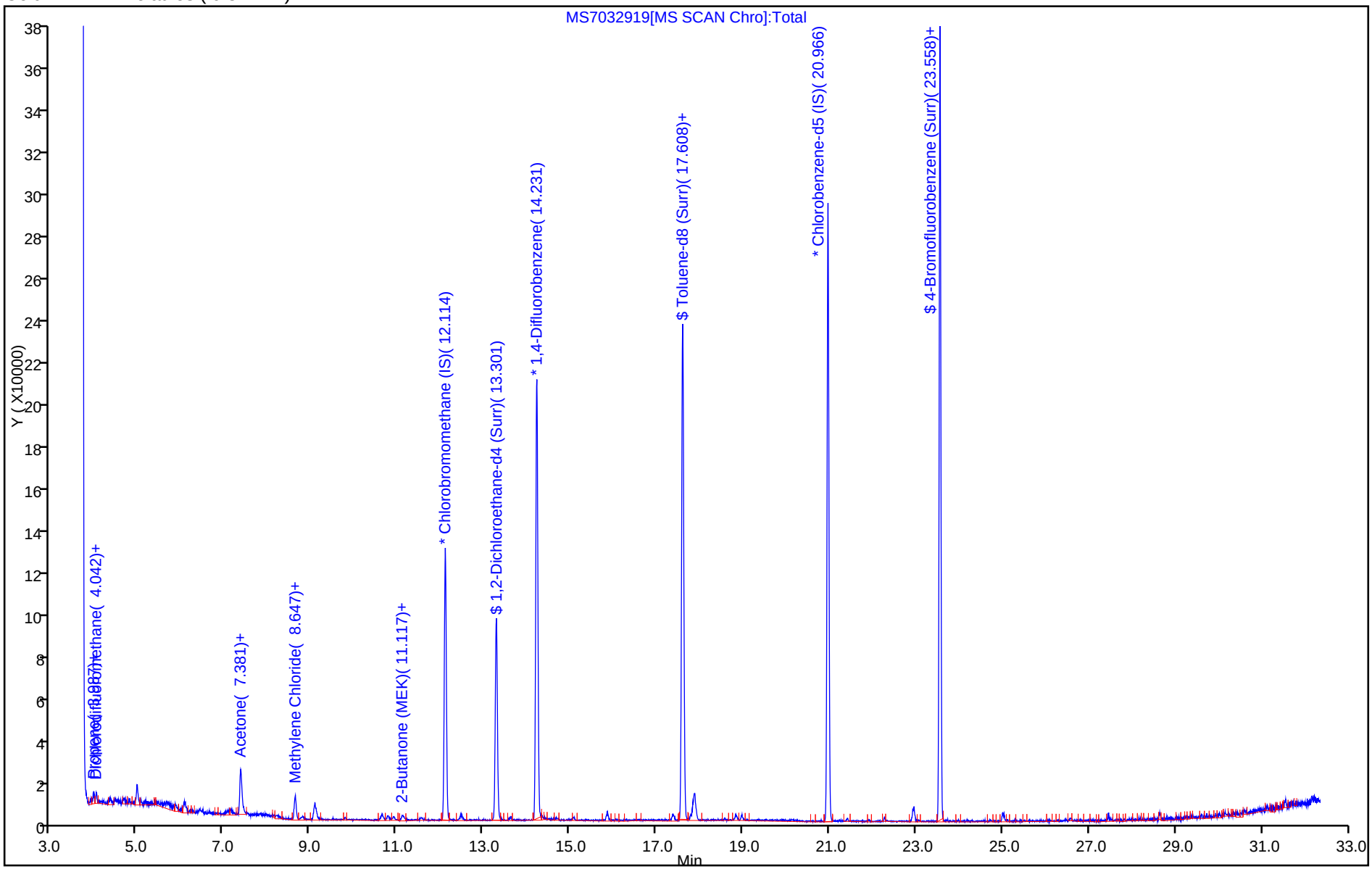
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032919.d				
Injection Date:	30-Mar-2014 04:12:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-11	Lab Sample ID:	320-6793-11	Worklist Smp#:	19
Client ID:	34001630				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

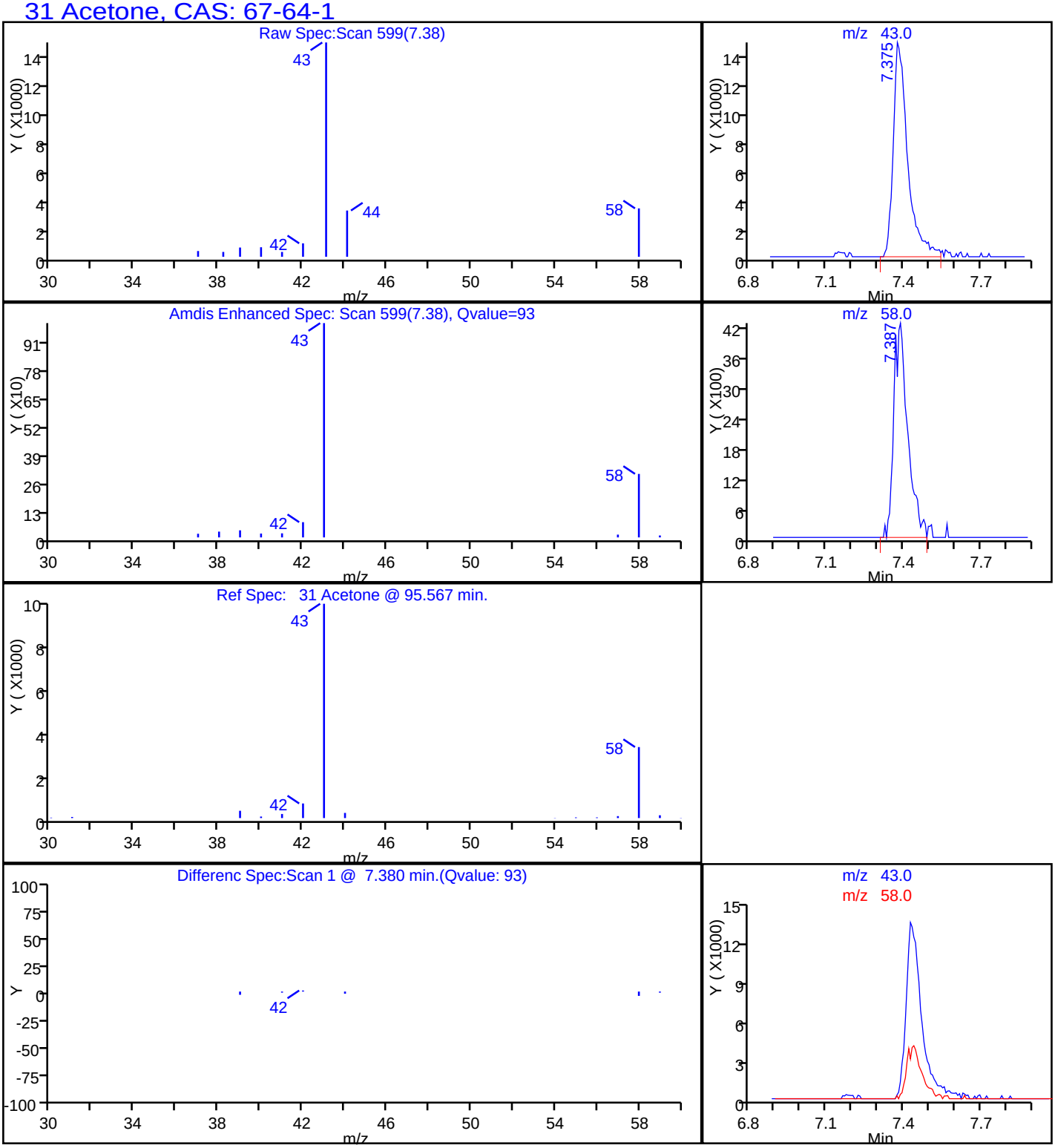


Report Date: 31-Mar-2014 10:25:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032919.d				
Injection Date:	30-Mar-2014 04:12:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-11	Lab Sample ID:	320-6793-11		
Client ID:	34001630				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

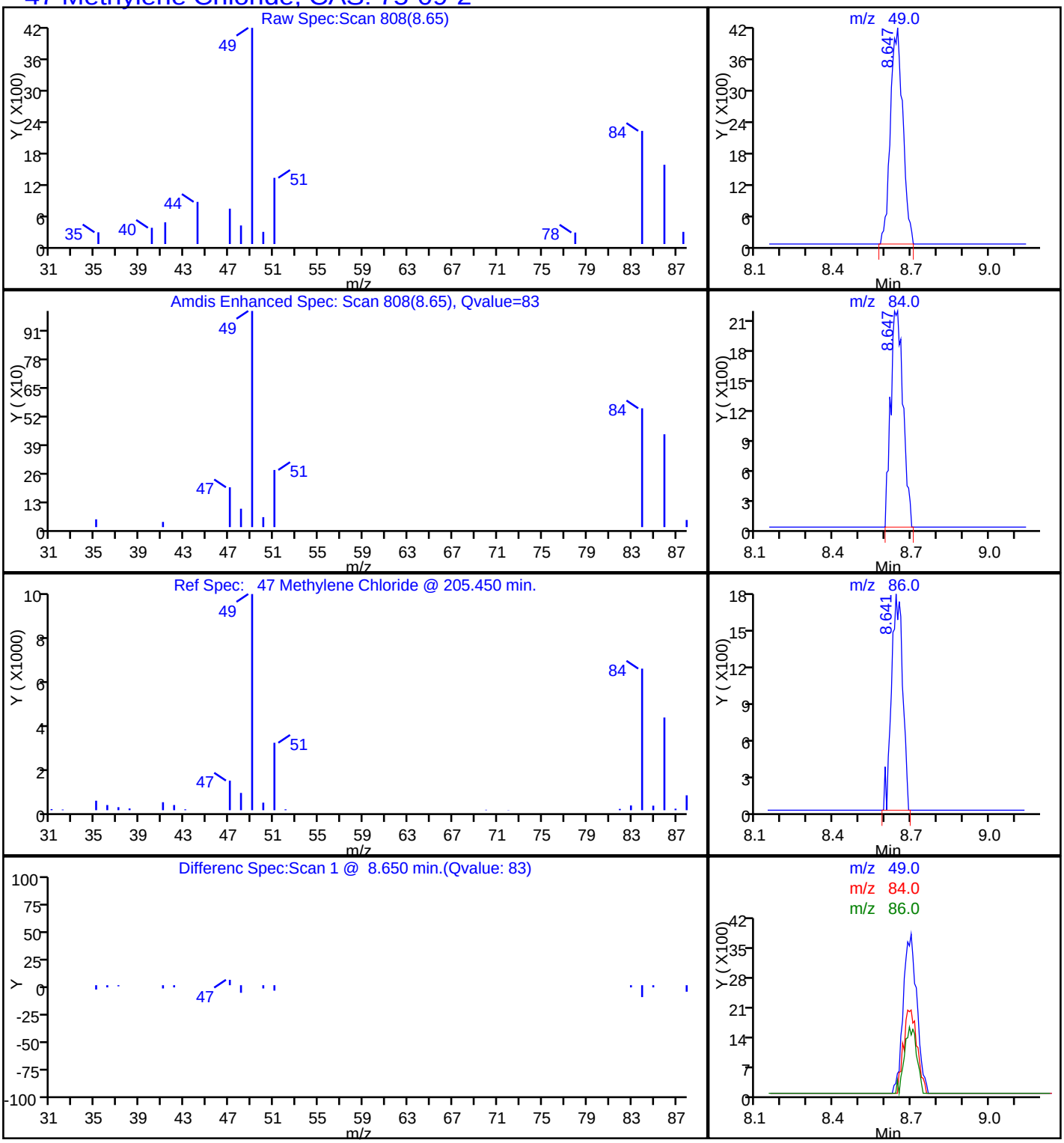


Report Date: 31-Mar-2014 10:25:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032919.d				
Injection Date:	30-Mar-2014 04:12:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-11	Lab Sample ID:	320-6793-11		
Client ID:	34001630				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

47 Methylene Chloride, CAS: 75-09-2



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000909 | Lab Sample ID: 320-6793-12

Matrix: Air | Lab File ID: MS7032920.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 05:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.61	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000909 | Lab Sample ID: 320-6793-12

Matrix: Air | Lab File ID: MS7032920.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 05:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000909 Lab Sample ID: 320-6793-12

Matrix: Air Lab File ID: MS7032920.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 05:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91	*	70-130
2037-26-5	Toluene-d8 (Surr)	86	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032920.d
Lims ID: 320-6793-A-12 Lab Sample ID: 320-6793-12
Client ID: 34000909
Sample Type: Client
Inject. Date: 30-Mar-2014 05:12:30 ALS Bottle#: 7 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-12
Misc. Info.: 500mL; 34000909
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:25:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.114	12.145	-0.031	87	66542	4.00	s
* 2 1,4-Difluorobenzene	114	14.231	14.262	-0.031	90	266538	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.990	-0.024	87	256263	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.288	13.325	-0.037	0	126491	3.63	
$ 5 Toluene-d8 (Surr)	100	17.596	17.626	-0.030	88	181551	3.44	
$ 6 4-Bromofluorobenzene (Surr)	95	23.551	23.582	-0.031	90	195144	3.67	
14 Propene	41	3.987	3.993	-0.006	91	5349	0.0887	
13 Chlorodifluoromethane	51	3.993	4.011	-0.018	5	5182	0.0459	
15 Dichlorodifluoromethane	85	4.041	4.054	-0.013	78	9380	0.0546	
18 Chloromethane	50	4.492	4.498	-0.006	32	5467	0.0896	
22 Butane	43	4.711	4.717	-0.006	72	4394	0.0447	
28 Trichlorofluoromethane	101	6.438	6.469	-0.031	10	4442	0.0249	
29 Acrolein	56	7.235	7.242	-0.007	34	820	0.0392	
31 Acetone	43	7.381	7.400	-0.019	98	77048	0.6082	
54 2-Butanone (MEK)	72	11.135	11.117	0.018	82	2207	0.0796	
68 Benzene	78	13.617	13.654	-0.037	30	4501	0.0262	
85 Toluene	91	17.772	17.815	-0.043	43	5658	0.0279	
98 m-Xylene & p-Xylene	91	21.404	21.441	-0.037	80	10029	0.0614	

QC Flag Legend

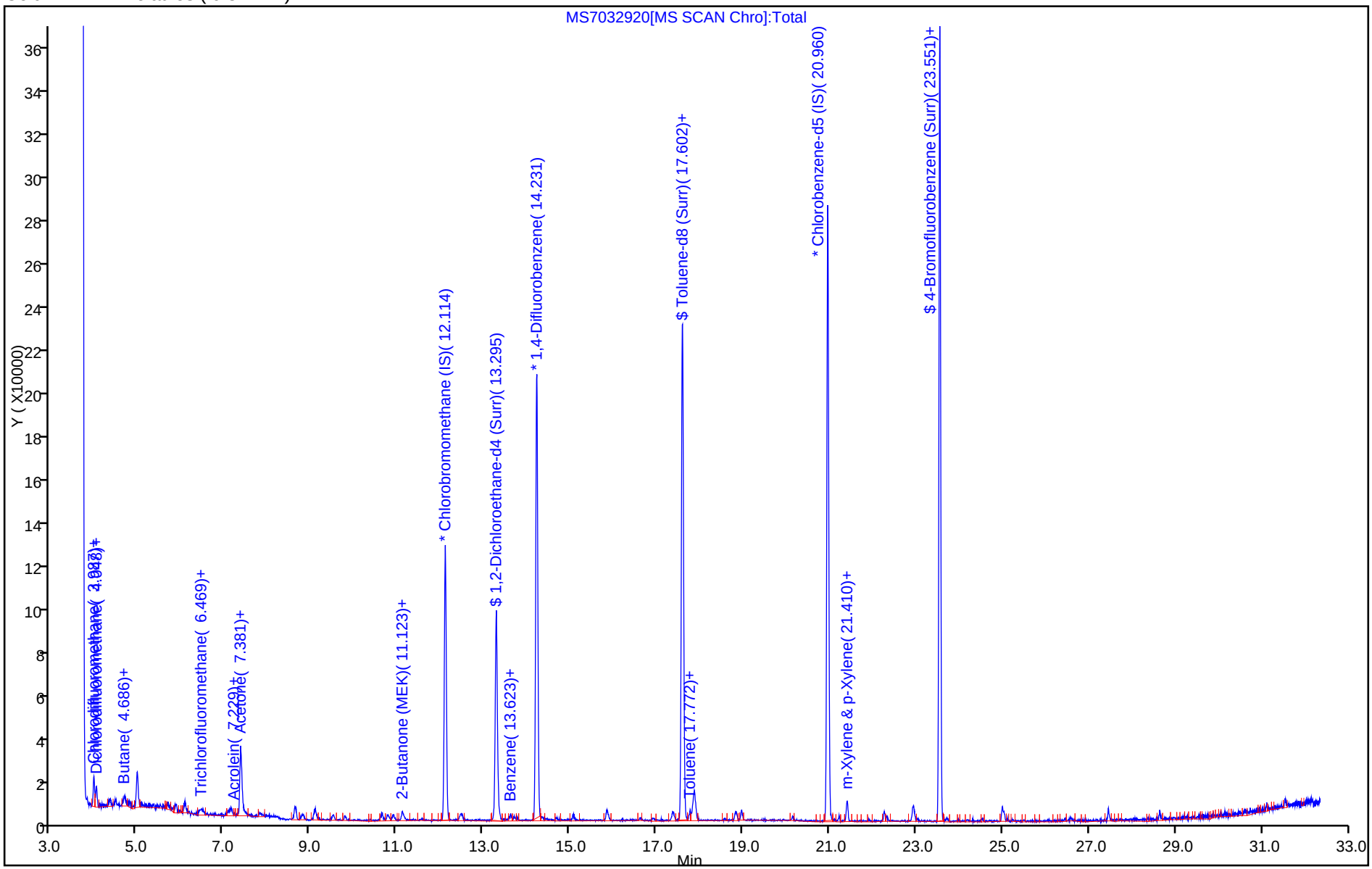
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:25:46 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032920.d				
Injection Date:	30-Mar-2014 05:12:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-12	Lab Sample ID:	320-6793-12	Worklist Smp#:	20
Client ID:	34000909				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

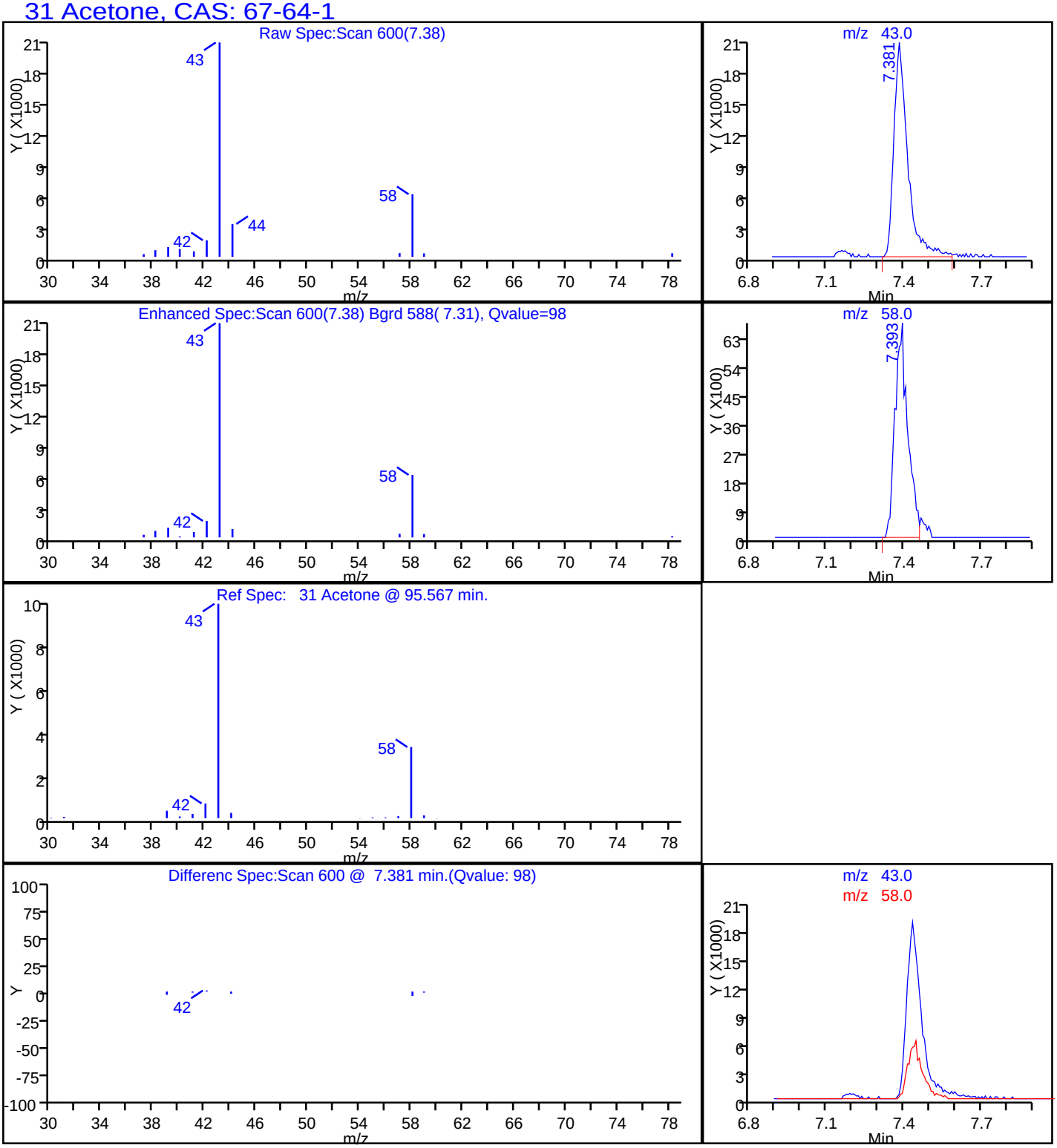


Report Date: 31-Mar-2014 10:25:46 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032920.d				
Injection Date:	30-Mar-2014 05:12:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-12	Lab Sample ID:	320-6793-12		
Client ID:	34000909				
Operator ID:	AO	ALS Bottle#:	7	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001596 | Lab Sample ID: 320-6793-13

Matrix: Air | Lab File ID: MS7032921.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 06:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.40	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001596 | Lab Sample ID: 320-6793-13

Matrix: Air | Lab File ID: MS7032921.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 06:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39343 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	0.083	J *	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001596 Lab Sample ID: 320-6793-13

Matrix: Air Lab File ID: MS7032921.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 06:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39343 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89	*	70-130
2037-26-5	Toluene-d8 (Surr)	85	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032921.d
Lims ID: 320-6793-A-13 Lab Sample ID: 320-6793-13
Client ID: 34001596
Sample Type: Client
Inject. Date: 30-Mar-2014 06:08:30 ALS Bottle#: 8 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-13
Misc. Info.: 500mL; 34001596
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 10:24:12 Calib Date: 29-Mar-2014 13:38:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032904.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 10:26:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.108	12.145	-0.037	91	68410	4.00	s
* 2 1,4-Difluorobenzene	114	14.225	14.262	-0.037	90	269587	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.990	-0.024	87	256791	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.288	13.325	-0.037	0	126158	3.58	
$ 5 Toluene-d8 (Surr)	100	17.608	17.626	-0.018	88	180756	3.39	
$ 6 4-Bromofluorobenzene (Surr)	95	23.558	23.582	-0.024	89	187248	3.52	
18 Chloromethane	50	4.473	4.498	-0.025	6	2763	0.0440	
31 Acetone	43	7.375	7.400	-0.025	95	52706	0.4047	
47 Methylene Chloride	49	8.635	8.677	-0.042	71	7104	0.0831	

QC Flag Legend

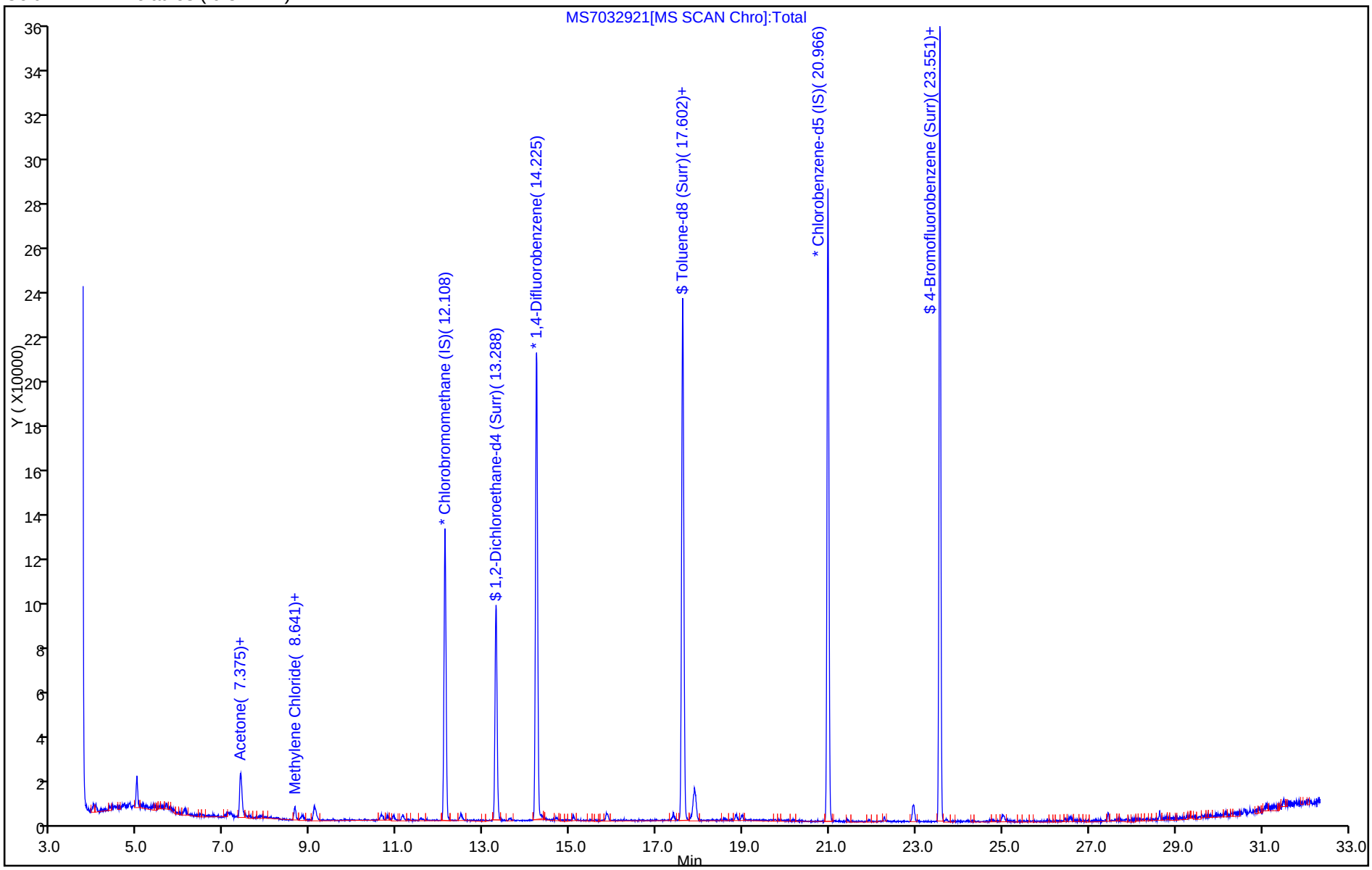
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 31-Mar-2014 10:26:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032921.d				
Injection Date:	30-Mar-2014 06:08:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-13	Lab Sample ID:	320-6793-13	Worklist Smp#:	21
Client ID:	34001596				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

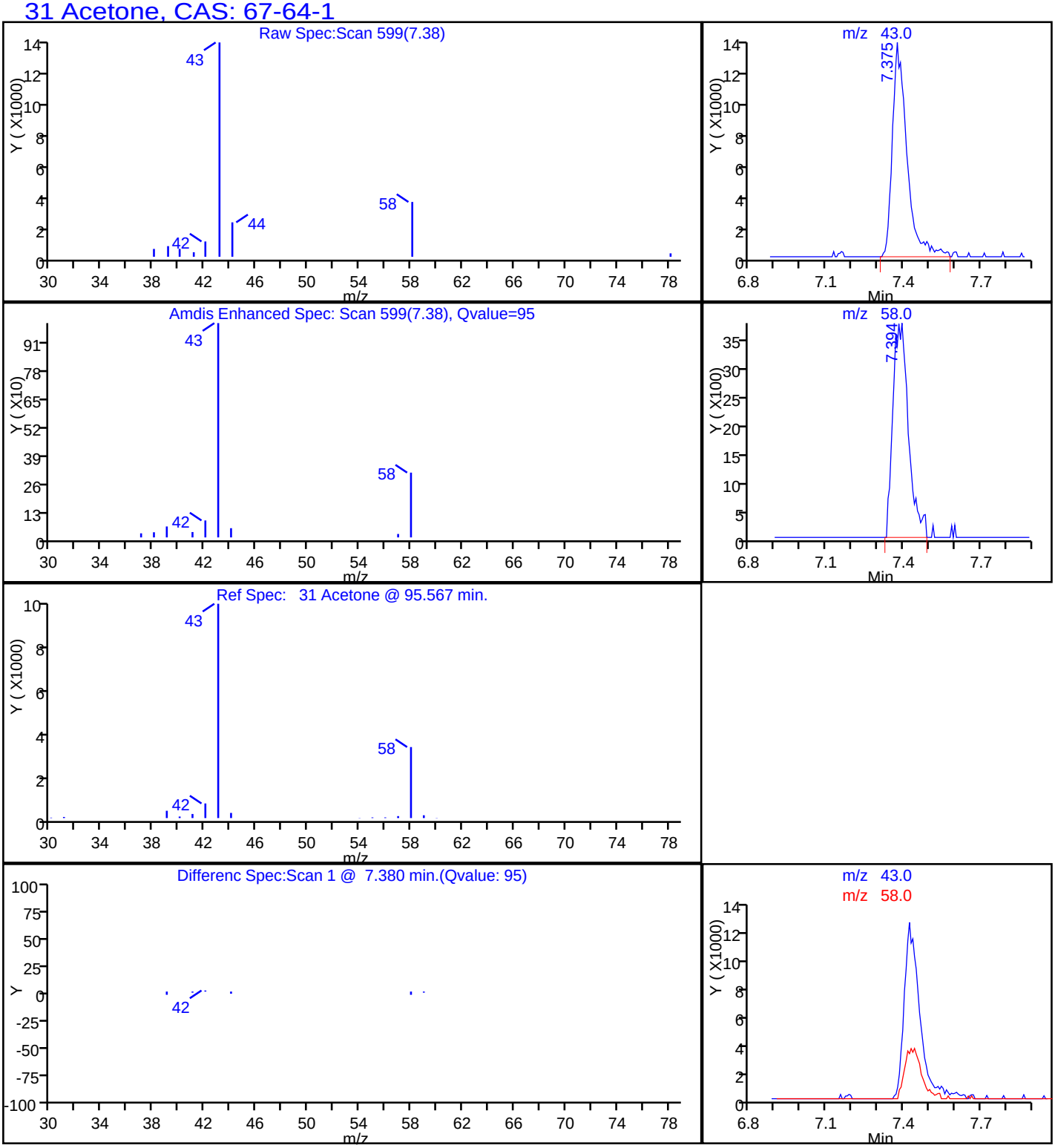


Report Date: 31-Mar-2014 10:26:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032921.d				
Injection Date:	30-Mar-2014 06:08:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-13	Lab Sample ID:	320-6793-13		
Client ID:	34001596				
Operator ID:	AO	ALS Bottle#:	8	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

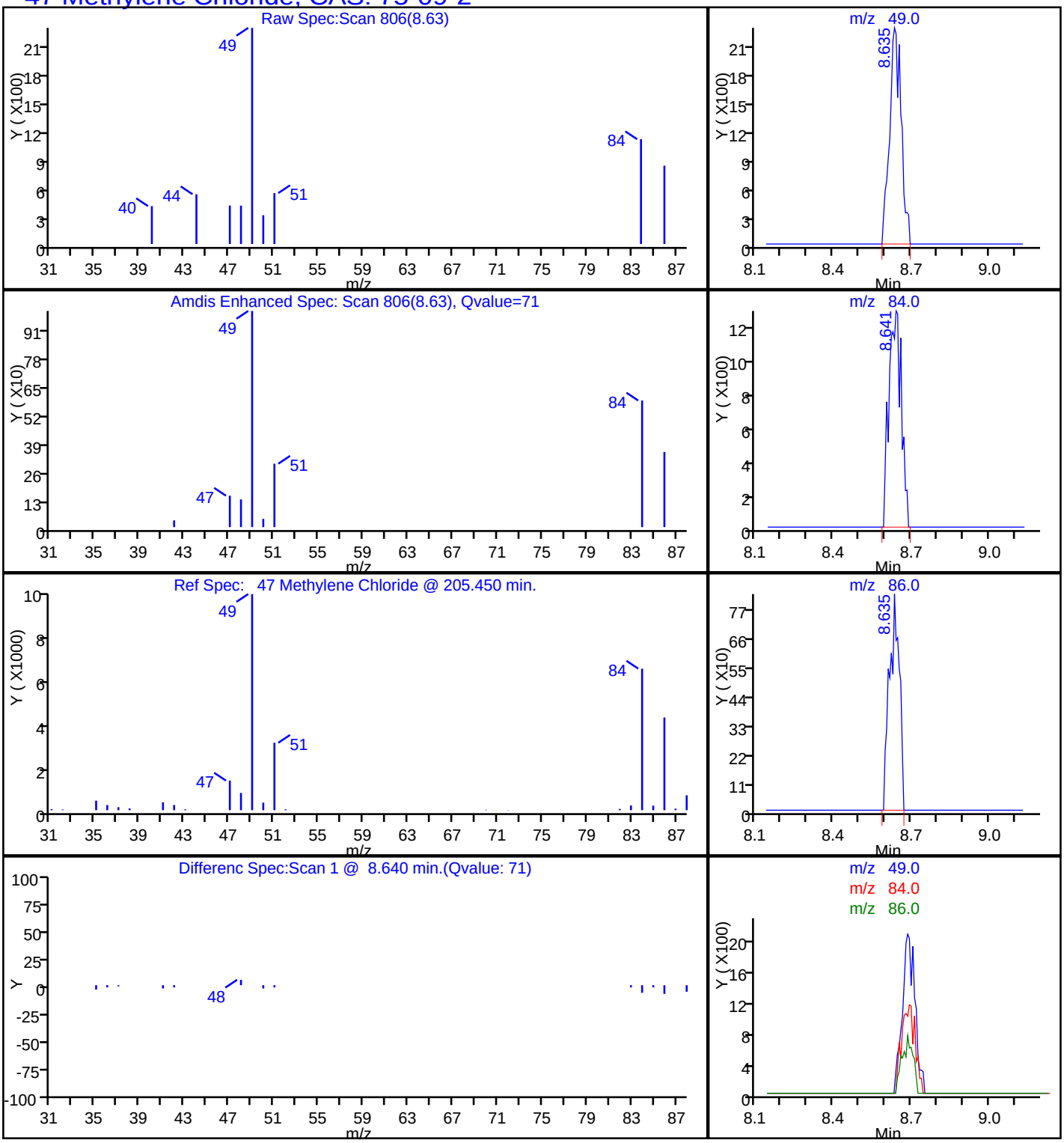


Report Date: 31-Mar-2014 10:26:06 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140329-11457.b\MS7032921.d				
Injection Date:	30-Mar-2014 06:08:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-13	Lab Sample ID:	320-6793-13		
Client ID:	34001596				
Operator ID:	AO	ALS Bottle#:	8	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

47 Methylene Chloride, CAS: 75-09-2



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000748 | Lab Sample ID: 320-6793-15

Matrix: Air | Lab File ID: MS7033113.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/31/2014 20:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39424 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.3	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000748 | Lab Sample ID: 320-6793-15

Matrix: Air | Lab File ID: MS7033113.d

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/31/2014 20:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39424 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34000748 Lab Sample ID: 320-6793-15

Matrix: Air Lab File ID: MS7033113.d

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/31/2014 20:00

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39424 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	88		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84	*	70-130
2037-26-5	Toluene-d8 (Surr)	80	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033113.d
Lims ID: 320-6793-A-15 Lab Sample ID: 320-6793-15
Client ID: 34000748
Sample Type: Client
Inject. Date: 31-Mar-2014 20:00:30 ALS Bottle#: 2 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6793-15
Misc. Info.: 500mL; 34000748
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140331-11484.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 01-Apr-2014 10:56:10 Calib Date: 31-Mar-2014 12:32:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033103.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: ortizam Date: 01-Apr-2014 10:34:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.151	12.151	0.0	90	67340	4.00	s
* 2 1,4-Difluorobenzene	114	14.262	14.262	0.0	90	261280	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.978	20.984	-0.006	87	249587	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.331	13.331	0.0	0	122285	3.35	
$ 5 Toluene-d8 (Surr)	100	17.626	17.632	-0.006	88	175411	3.22	
$ 6 4-Bromofluorobenzene (Surr)	95	23.564	23.570	-0.006	90	188302	3.52	
31 Acetone	43	7.406	7.424	-0.018	97	159056	1.29	
54 2-Butanone (MEK)	72	11.165	11.165	0.0	48	630	0.0286	

QC Flag Legend

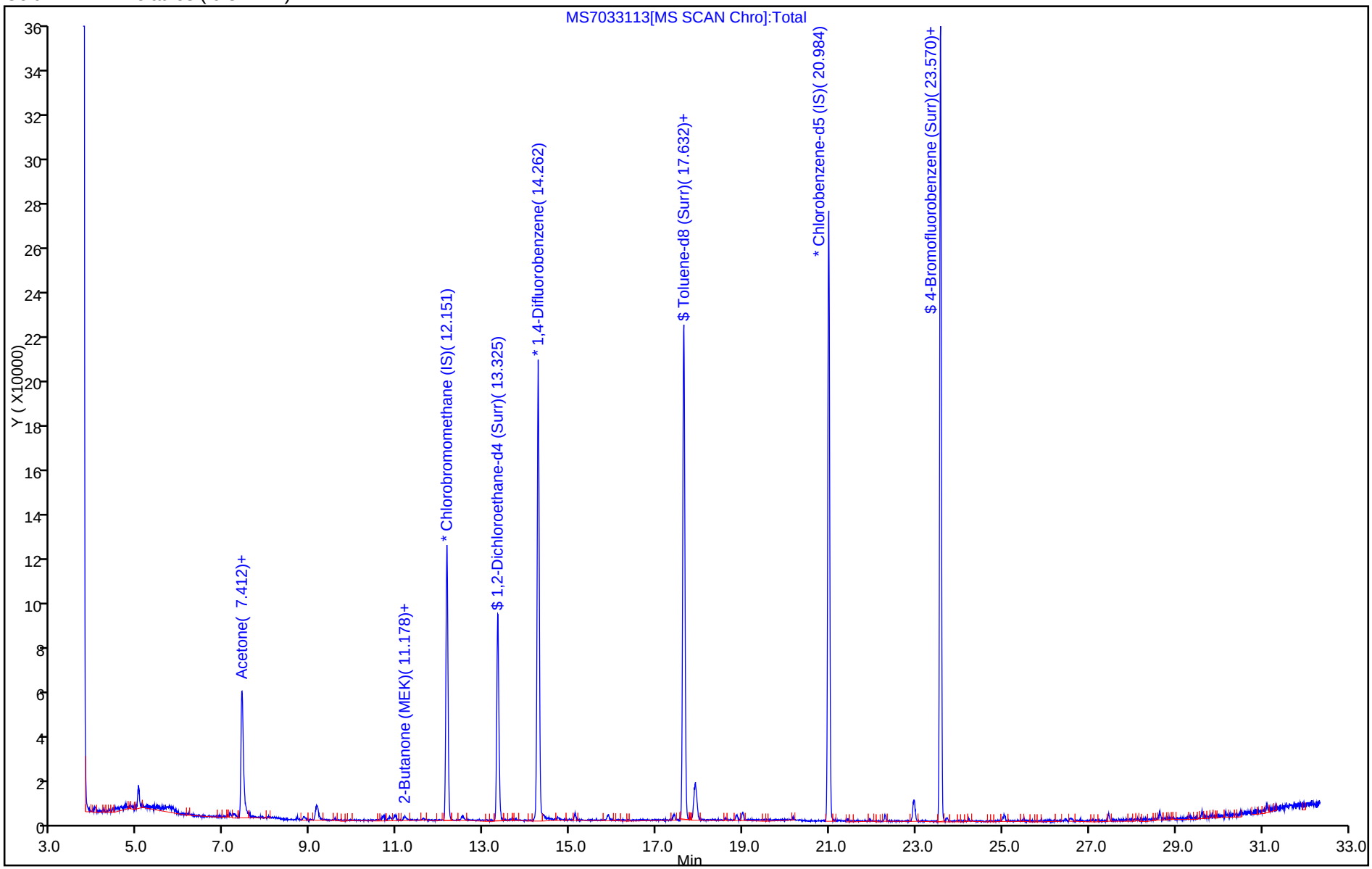
Processing Flags
s - Failed ISTD Recovery Test

Report Date: 01-Apr-2014 10:56:11 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033113.d				
Injection Date:	31-Mar-2014 20:00:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-15	Lab Sample ID:	320-6793-15	Worklist Smp#:	12
Client ID:	34000748				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

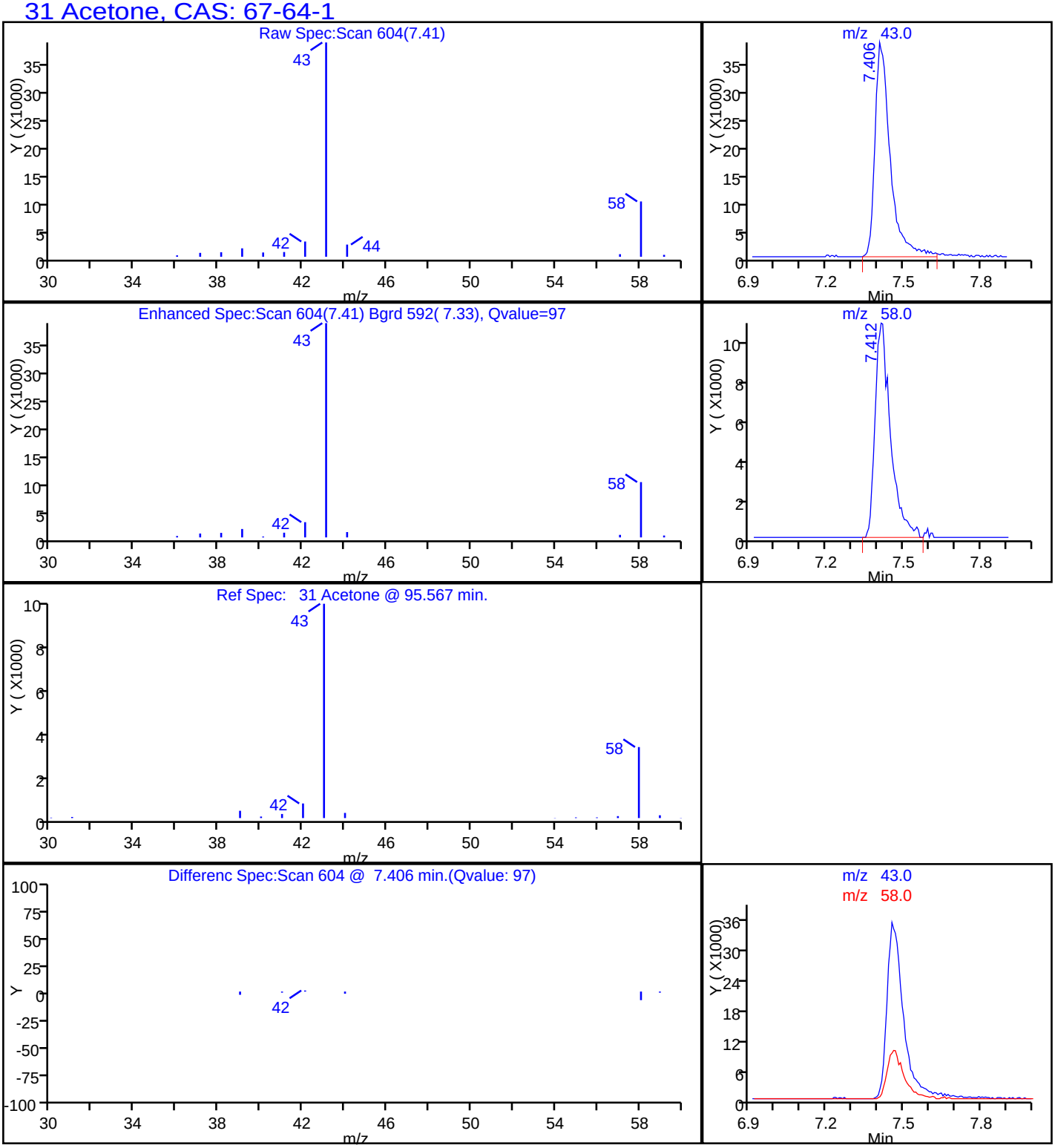


Report Date: 01-Apr-2014 10:56:11 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033113.d				
Injection Date:	31-Mar-2014 20:00:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-15	Lab Sample ID:	320-6793-15		
Client ID:	34000748				
Operator ID:	AO	ALS Bottle#:	2	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001965 Lab Sample ID: 320-6793-16

Matrix: Air Lab File ID: MS7033114.D

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/31/2014 20:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39424 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	2.0	J *	5.0
107-02-8	Acrolein	ND	*	2.0
107-13-1	Acrylonitrile	ND	*	2.0
107-05-1	Allyl chloride	ND	*	0.80
71-43-2	Benzene	ND	*	0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND	*	0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND	*	0.80
106-99-0	1,3-Butadiene	ND	*	0.80
106-97-8	n-Butane	ND	*	0.40
78-93-3	2-Butanone (MEK)	ND	*	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND	*	2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND	*	0.80
56-23-5	Carbon tetrachloride	ND	*	0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND	*	0.80
75-00-3	Chloroethane	ND	*	0.80
67-66-3	Chloroform	ND	*	0.30
74-87-3	Chloromethane	ND	*	0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND	*	0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND	*	0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	*	0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND	*	0.40
75-34-3	1,1-Dichloroethane	ND	*	0.30
107-06-2	1,2-Dichloroethane	ND	*	0.80
75-35-4	1,1-Dichloroethene	ND	*	0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001965 | Lab Sample ID: 320-6793-16

Matrix: Air | Lab File ID: MS7033114.D

Analysis Method: TO-15 | Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/31/2014 20:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39424 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND	*	0.40
156-60-5	trans-1,2-Dichloroethene	ND	*	0.40
78-87-5	1,2-Dichloropropane	ND	*	0.40
10061-01-5	cis-1,3-Dichloropropene	ND	*	0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND	*	0.80
141-78-6	Ethyl acetate	ND	*	0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND	*	0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND	*	0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND	*	0.80
80-62-6	Methyl methacrylate	ND	*	0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	*	0.40
75-09-2	Methylene Chloride	ND	*	0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND	*	0.80
115-07-1	Propylene	ND	*	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND	*	0.80
108-88-3	Toluene	ND	*	0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND	*	0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND	*	0.40
75-69-4	Trichlorofluoromethane	ND	*	0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6793-1

SDG No.:

Client Sample ID: 34001965 Lab Sample ID: 320-6793-16

Matrix: Air Lab File ID: MS7033114.D

Analysis Method: TO-15 Date Collected: 03/19/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/31/2014 20:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39424 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND	*	0.40
108-05-4	Vinyl acetate	ND	*	0.80
593-60-2	Vinyl bromide	ND	*	0.80
75-01-4	Vinyl chloride	ND	*	0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87	*	70-130
2037-26-5	Toluene-d8 (Surr)	80	*	70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033114.D				
Lims ID:	320-6793-A-16	Lab Sample ID:			
Client ID:	34001965				
Sample Type:	Client				
Inject. Date:	31-Mar-2014 20:54:30	ALS Bottle#:	4	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-6793-16				
Misc. Info.:	500mL; 34001965				
Operator ID:	AO	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140331-11484.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	01-Apr-2014 11:44:41	Calib Date:	31-Mar-2014 12:32:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033103.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK006				

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.151	12.151	0.0	91	65818	4.00	s
* 2 1,4-Difluorobenzene	114	14.262	14.262	0.0	90	261599	4.00	s
* 3 Chlorobenzene-d5 (IS)	117	20.978	20.984	-0.006	86	267707	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.319	13.331	-0.012	0	126528	3.46	
$ 5 Toluene-d8 (Surr)	100	17.626	17.632	-0.006	89	174899	3.21	
$ 6 4-Bromofluorobenzene (Surr)	95	23.557	23.570	-0.013	90	218467	3.80	
31 Acetone	43	7.399	7.424	-0.025	97	245335	2.04	

QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

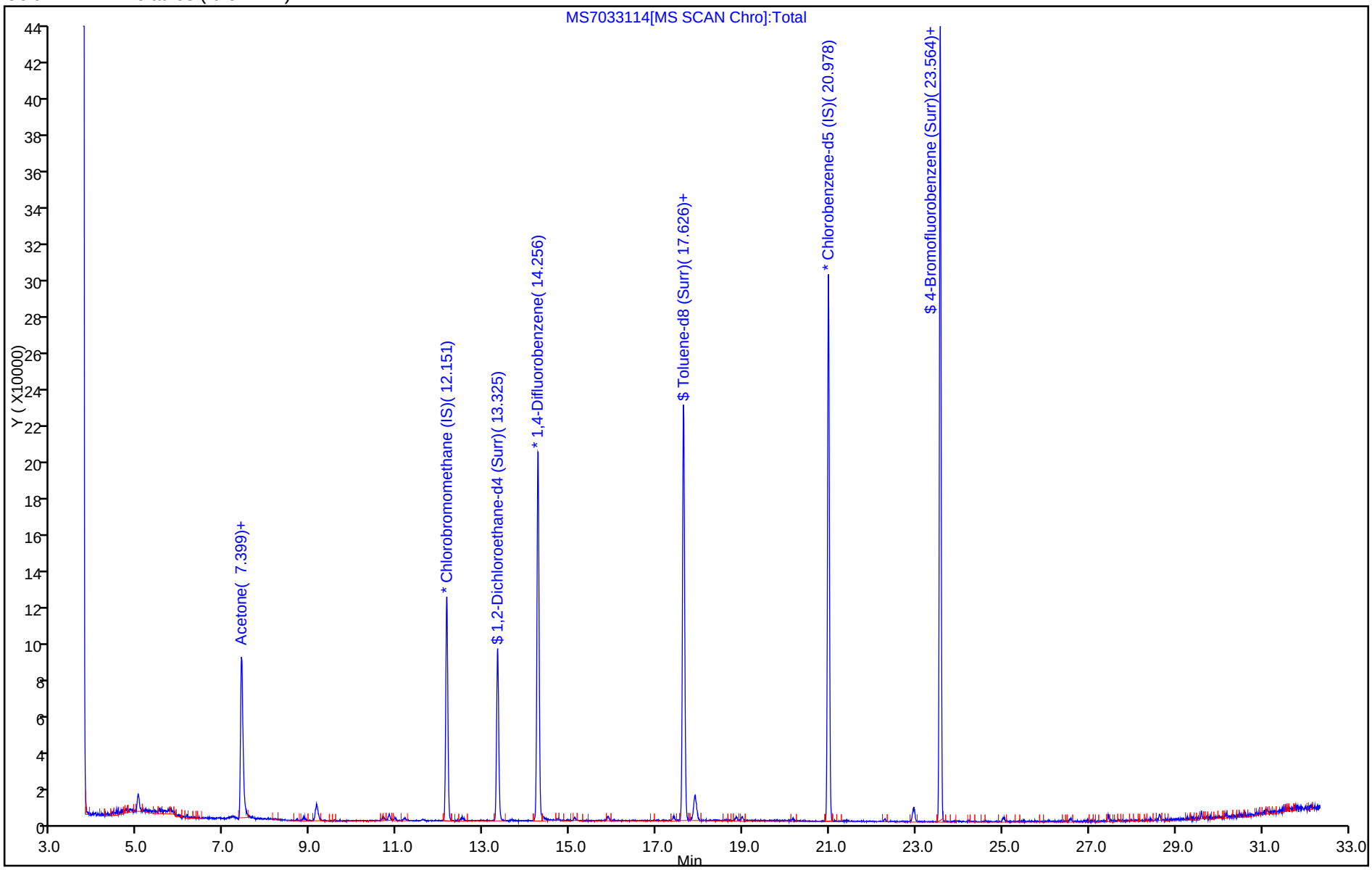
Report Date: 01-Apr-2014 11:46:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File: \\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033114.D

Injection Date:	31-Mar-2014 20:54:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6793-A-16	Lab Sample ID:		Worklist Smp#:	25
Client ID:	34001965				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

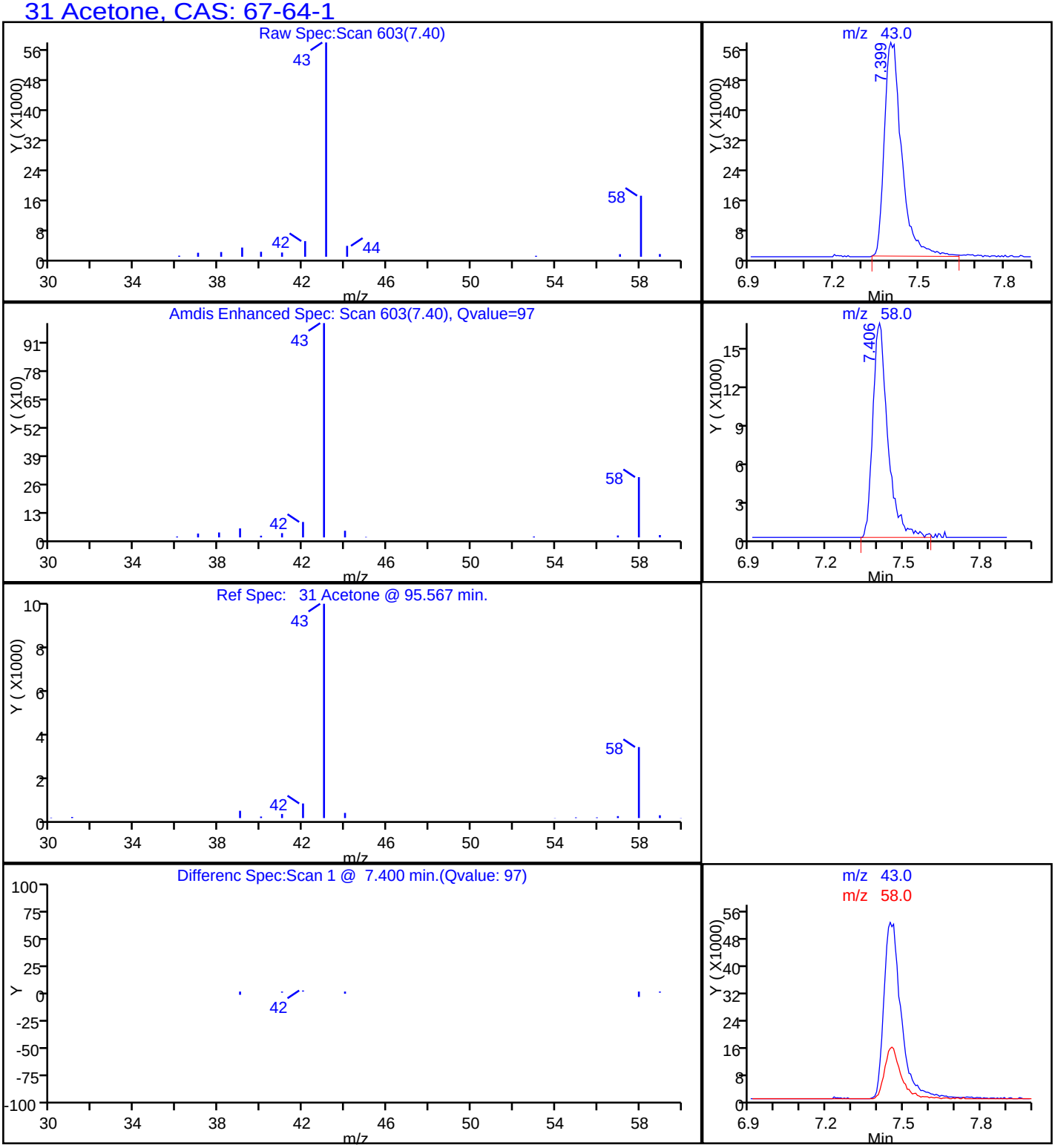


Report Date: 01-Apr-2014 11:46:05 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140331-11484.b\MS7033114.D				
Injection Date:	31-Mar-2014 20:54:30	Instrument ID:	ATMS7		
Lims ID:	320-6793-A-16	Lab Sample ID:			
Client ID:	34001965				
Operator ID:	AO	ALS Bottle#:	4	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001136 | Lab Sample ID: 320-6800-1

Matrix: Air | Lab File ID: MS5032905.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 14:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001136 | Lab Sample ID: 320-6800-1

Matrix: Air | Lab File ID: MS5032905.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 14:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001136 Lab Sample ID: 320-6800-1

Matrix: Air Lab File ID: MS5032905.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 14:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032905.D
Lims ID: 320-6800-A-1 Lab Sample ID: 320-6800-1
Client ID: 34001136
Sample Type: Client
Inject. Date: 29-Mar-2014 14:40:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-1
Misc. Info.: 500mL;34001136
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:26:47 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:26:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	92	322963	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1303986	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	82	1113439	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	372613	7.76	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	821477	7.94	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	701073	7.56	
33 Acetone	43	7.358	7.358	0.012	66	2793	0.0282	7a

QC Flag Legend

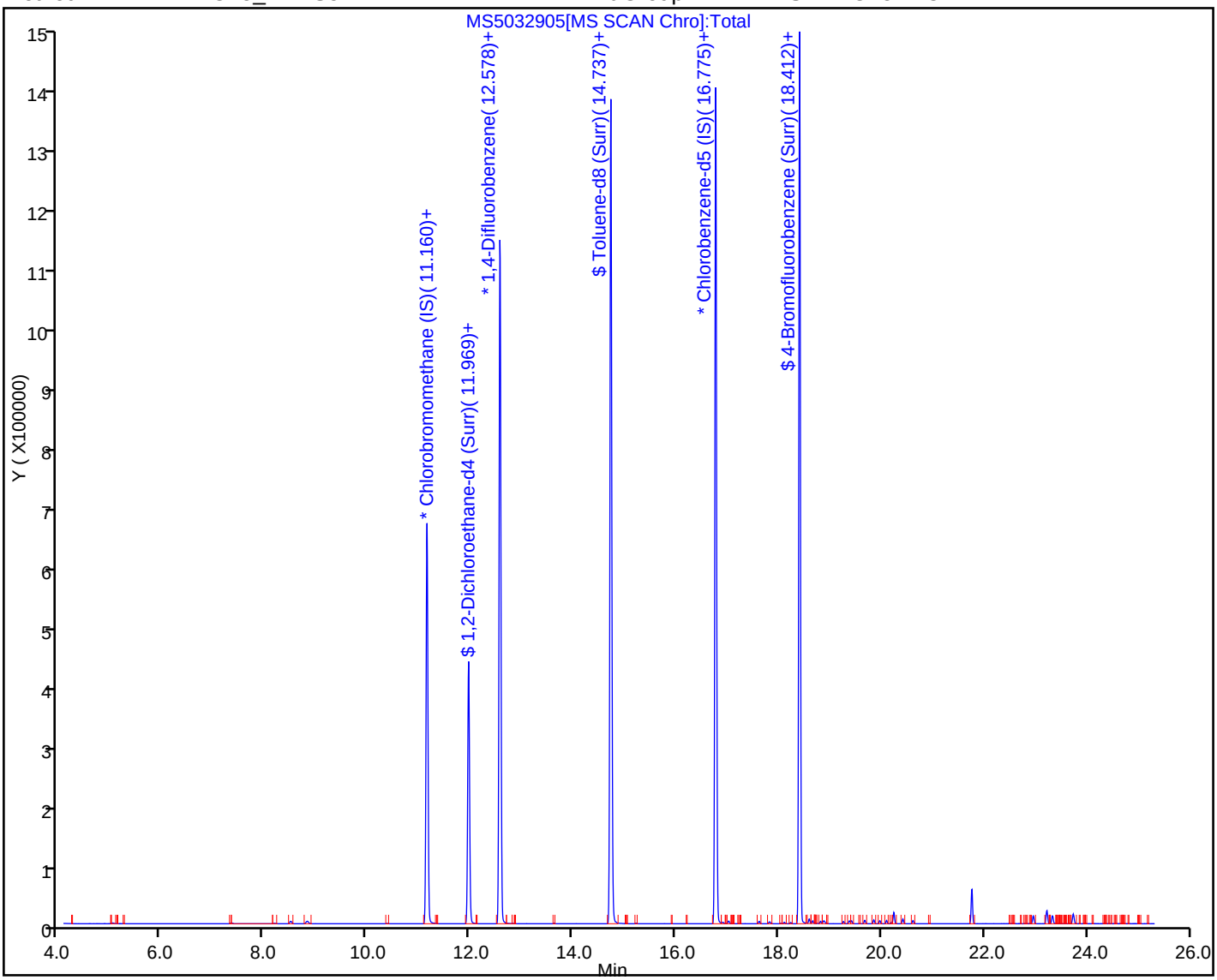
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:26:48 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032905.D				
Injection Date:	29-Mar-2014 14:40:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-1	Lab Sample ID:	320-6800-1		
Client ID:	34001136				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



Manual Integration/User Assign Peak Report

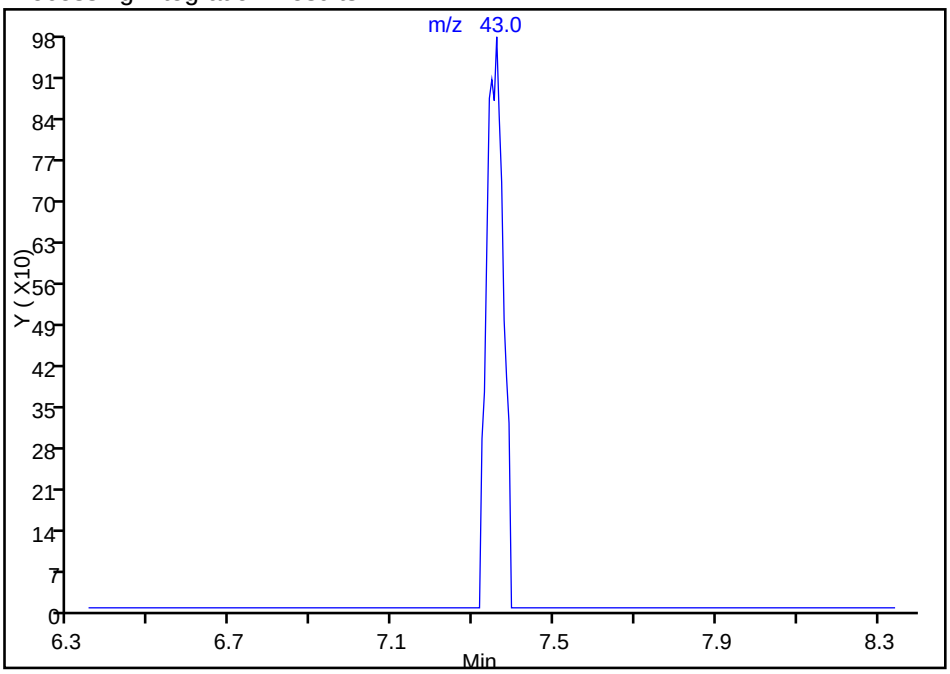
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032905.D				
Injection Date:	29-Mar-2014 14:40:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-1	Lab Sample ID:	320-6800-1		
Client ID:	34001136				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

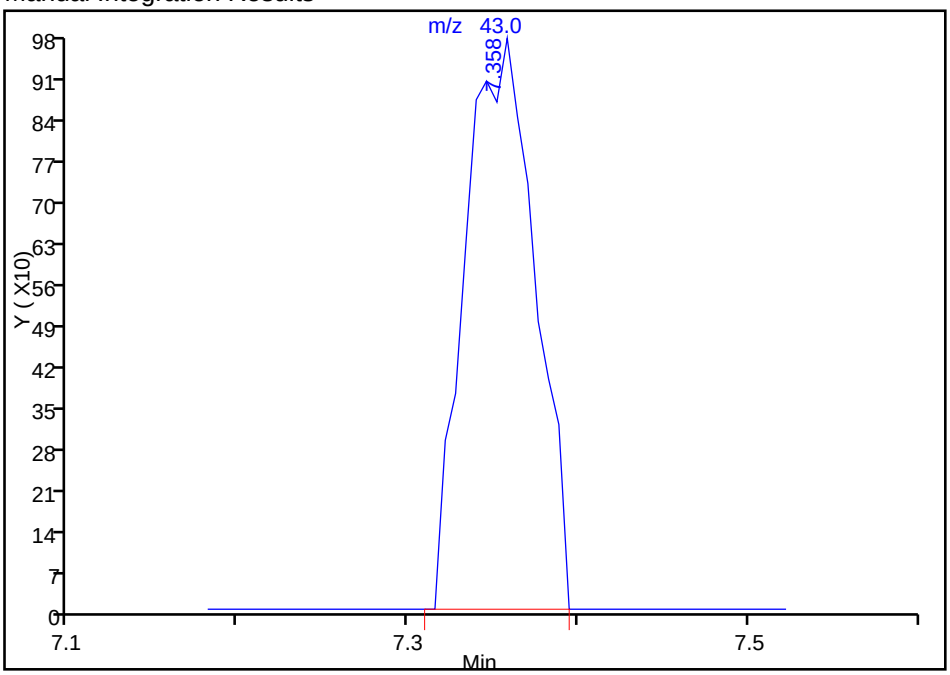
Not Detected
Expected RT: 7.35

Processing Integration Results



Manual Integration Results

RT: 7.36
Response: 2793
Amount: 0.028188



Reviewer: ortizam, 31-Mar-2014 09:26:47
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34000994 | Lab Sample ID: 320-6800-2

Matrix: Air | Lab File ID: MS5032906.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 15:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.45	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34000994 | Lab Sample ID: 320-6800-2

Matrix: Air | Lab File ID: MS5032906.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 15:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34000994 Lab Sample ID: 320-6800-2

Matrix: Air Lab File ID: MS5032906.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 15:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032906.D
Lims ID: 320-6800-A-2 Lab Sample ID: 320-6800-2
Client ID: 34000994
Sample Type: Client
Inject. Date: 29-Mar-2014 15:47:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-2
Misc. Info.: 500mL;34000994
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:26:47 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

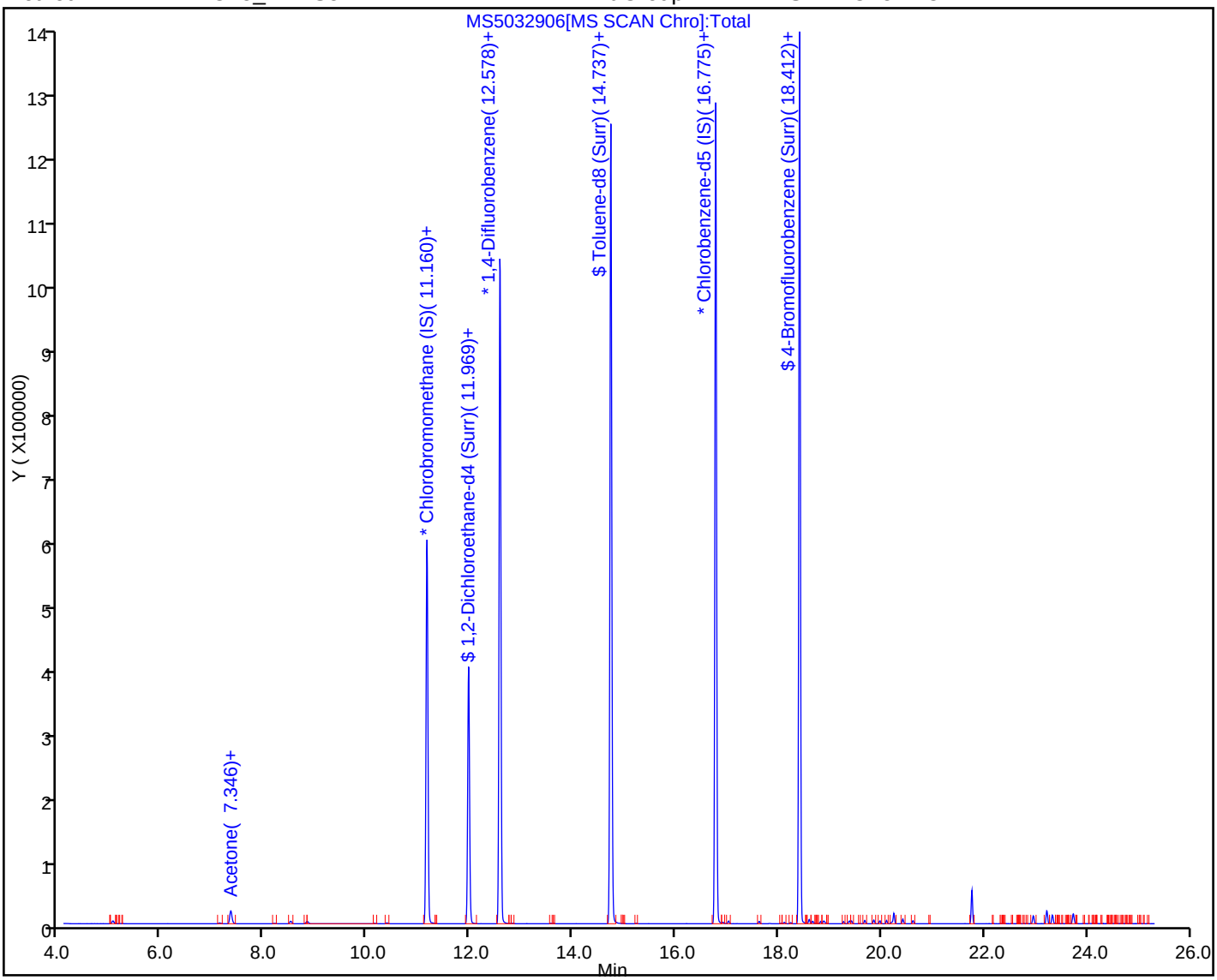
First Level Reviewer: ortizam Date: 31-Mar-2014 09:26:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	92	306943	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1239341	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	82	1064554	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	355332	7.78	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	778630	7.92	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	676996	7.63	
33 Acetone	43	7.340	7.346	-0.006	96	42095	0.4470	

Report Date: 31-Mar-2014 09:26:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032906.D				
Injection Date:	29-Mar-2014 15:47:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-2	Lab Sample ID:	320-6800-2		
Client ID:	34000994				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

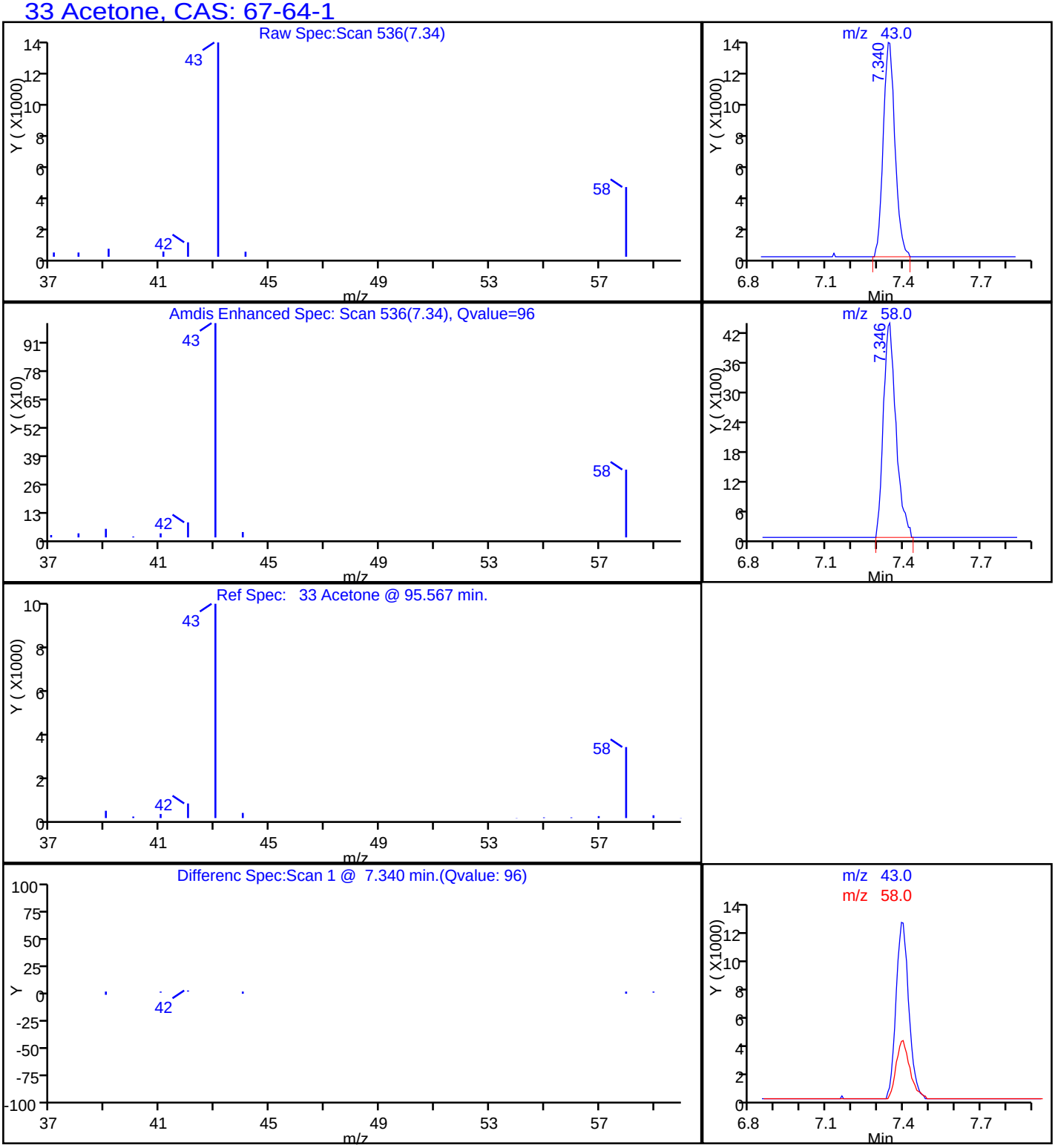


Report Date: 31-Mar-2014 09:26:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032906.D				
Injection Date:	29-Mar-2014 15:47:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-2	Lab Sample ID:	320-6800-2		
Client ID:	34000994				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001004 | Lab Sample ID: 320-6800-4

Matrix: Air | Lab File ID: MS5032908.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 18:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.22	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001004 | Lab Sample ID: 320-6800-4

Matrix: Air | Lab File ID: MS5032908.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 18:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001004 Lab Sample ID: 320-6800-4

Matrix: Air Lab File ID: MS5032908.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 18:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032908.D
Lims ID: 320-6800-A-4 Lab Sample ID: 320-6800-4
Client ID: 34001004
Sample Type: Client
Inject. Date: 29-Mar-2014 18:06:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-4
Misc. Info.: 500mL;34001004
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:26:47 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

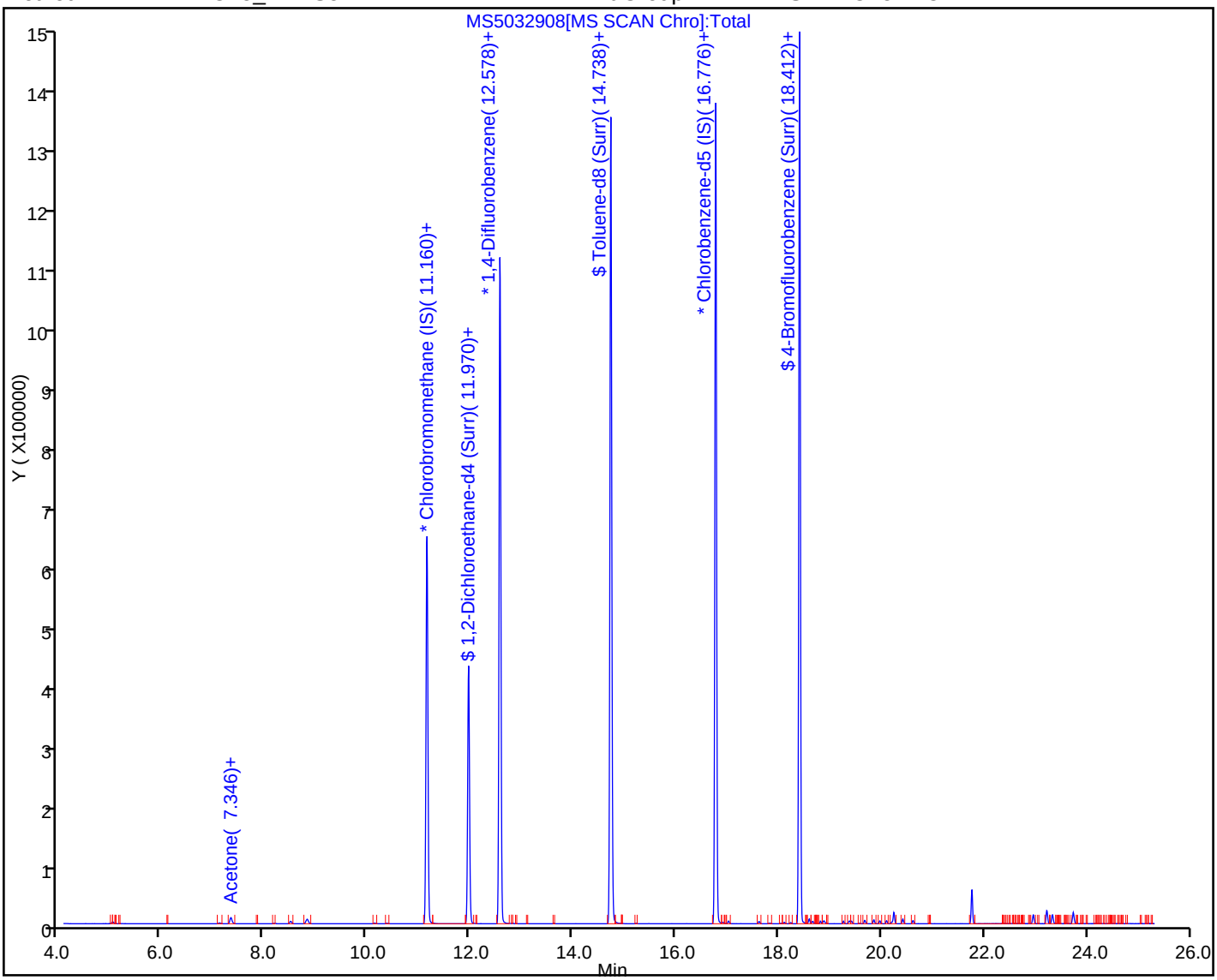
First Level Reviewer: ortizam Date: 31-Mar-2014 09:27:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	92	313493	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1271719	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.776	16.775	0.001	82	1093113	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.970	11.975	-0.005	0	364467	7.78	
$ 5 Toluene-d8 (Surr)	100	14.738	14.737	0.001	93	796536	7.90	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	695015	7.63	
33 Acetone	43	7.346	7.346	0.0	92	20949	0.2178	

Report Date: 31-Mar-2014 09:27:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032908.D				
Injection Date:	29-Mar-2014 18:06:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-4	Lab Sample ID:	320-6800-4		
Client ID:	34001004				
Operator ID:	AO	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

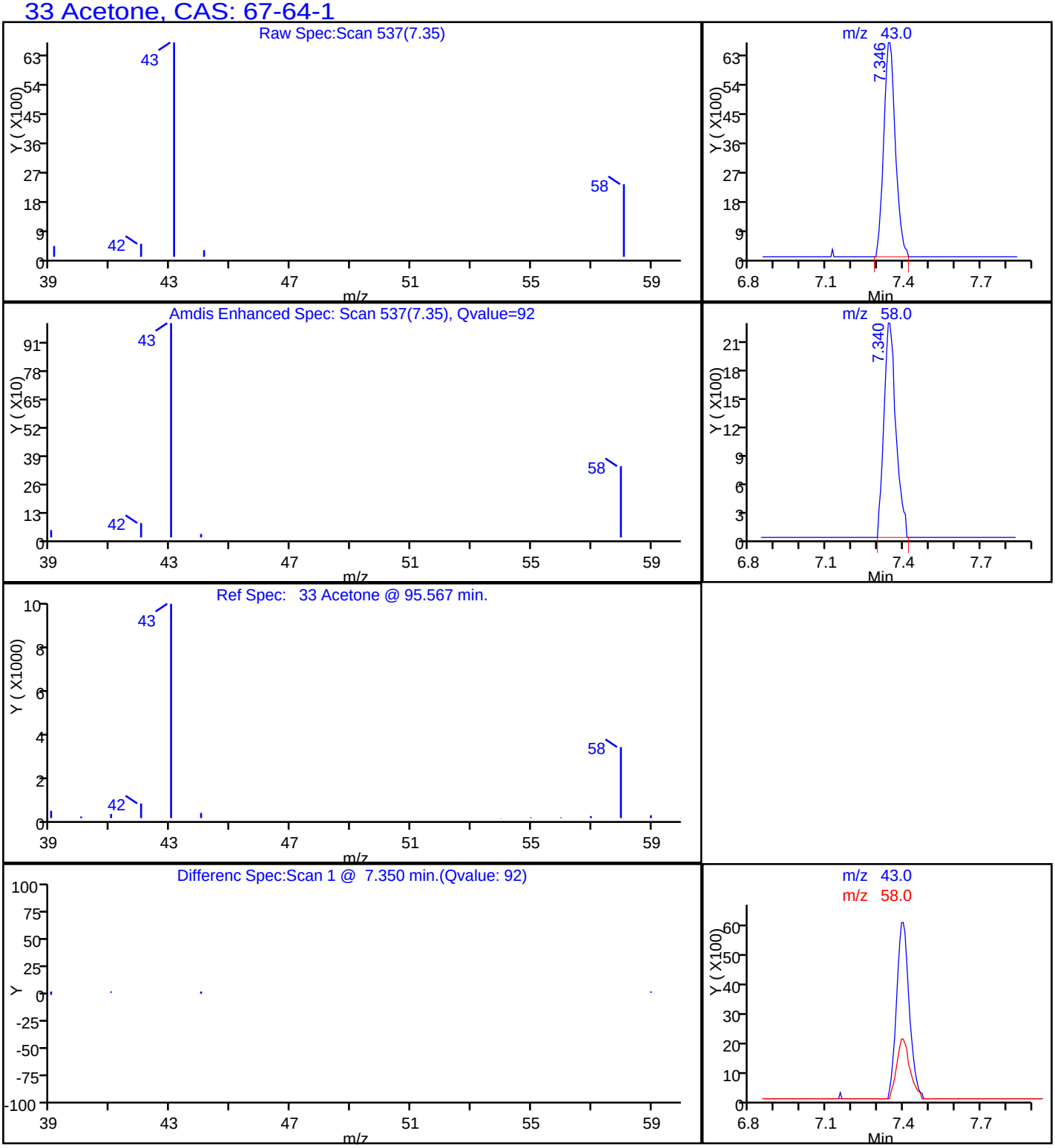


Report Date: 31-Mar-2014 09:27:29 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032908.D				
Injection Date:	29-Mar-2014 18:06:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-4	Lab Sample ID:	320-6800-4		
Client ID:	34001004				
Operator ID:	AO	ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001230 | Lab Sample ID: 320-6800-5

Matrix: Air | Lab File ID: MS5032909.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 19:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.18	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001230 | Lab Sample ID: 320-6800-5

Matrix: Air | Lab File ID: MS5032909.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 19:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001230 Lab Sample ID: 320-6800-5

Matrix: Air Lab File ID: MS5032909.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 19:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032909.D
Lims ID: 320-6800-A-5 Lab Sample ID: 320-6800-5
Client ID: 34001230
Sample Type: Client
Inject. Date: 29-Mar-2014 19:15:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-5
Misc. Info.: 500mL;34001230
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:27:39 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:27:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	315078	7.76	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	1286292	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	84	1093904	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	366666	7.74	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	810012	7.94	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	691548	7.59	
33 Acetone	43	7.352	7.352	0.006	87	17161	0.1775	7a

QC Flag Legend

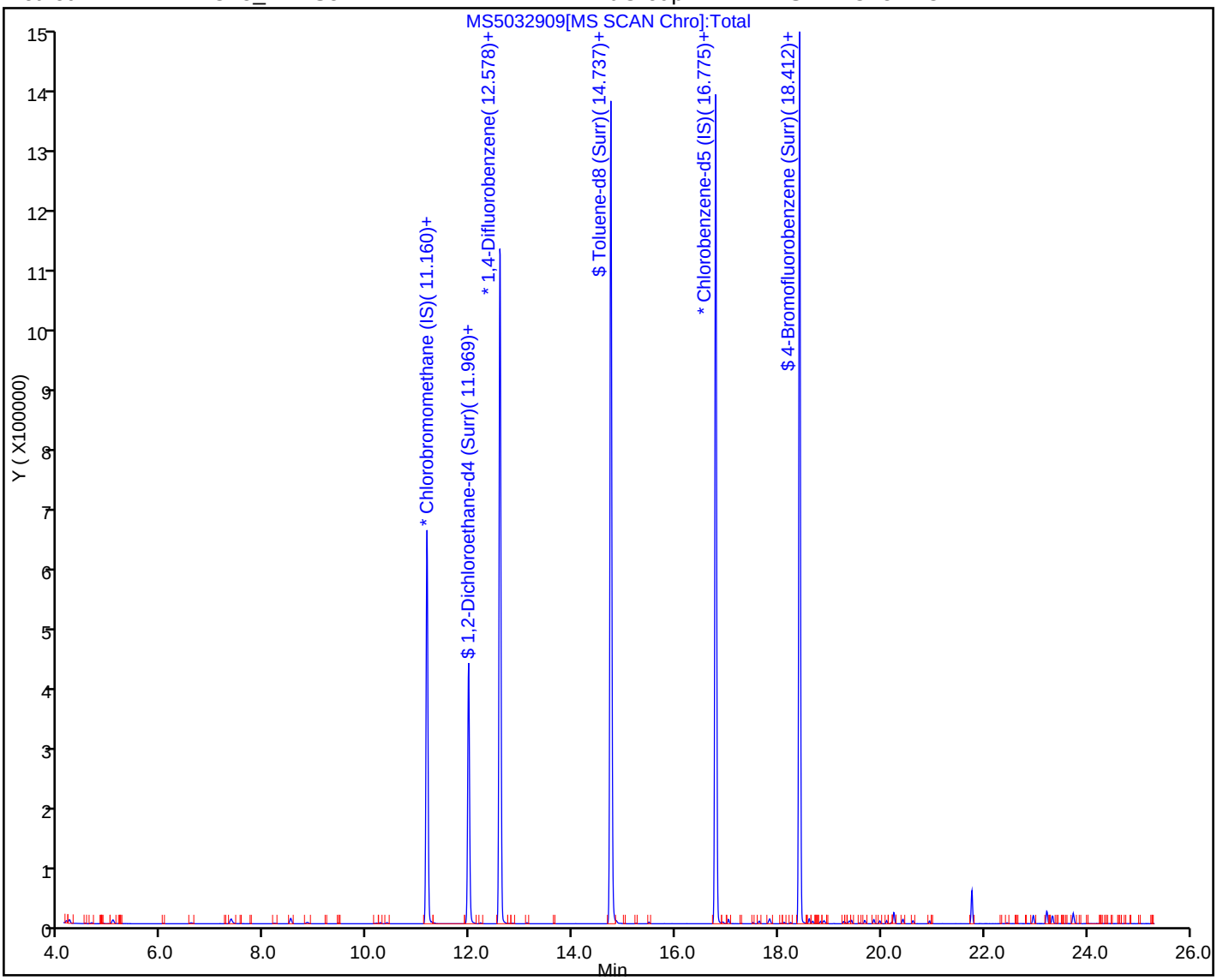
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:27:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032909.D				
Injection Date:	29-Mar-2014 19:15:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-5	Lab Sample ID:	320-6800-5		
Client ID:	34001230				
Operator ID:	AO	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

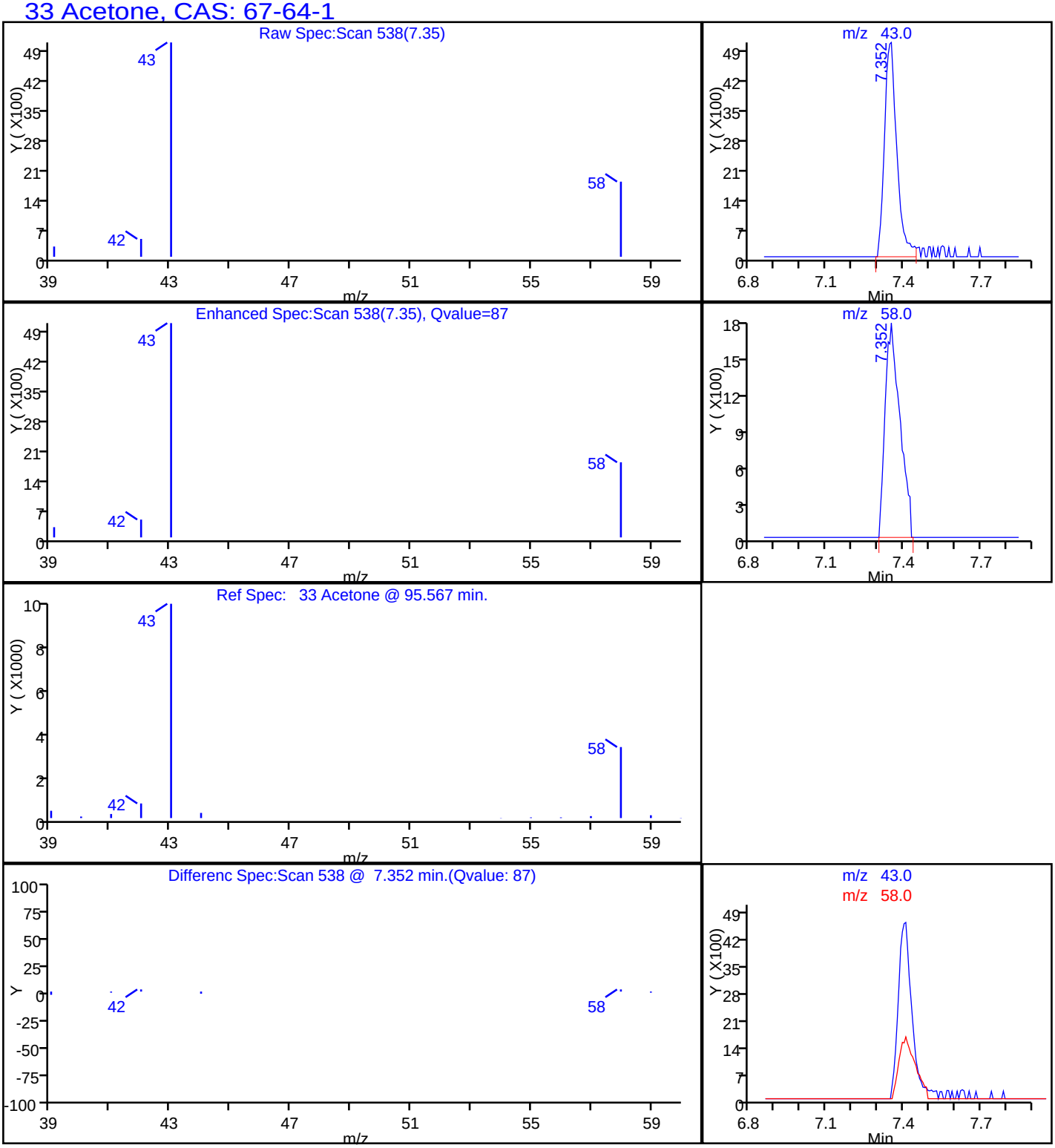


Report Date: 31-Mar-2014 09:27:44 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032909.D				
Injection Date:	29-Mar-2014 19:15:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-5	Lab Sample ID:	320-6800-5		
Client ID:	34001230				
Operator ID:	AO	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

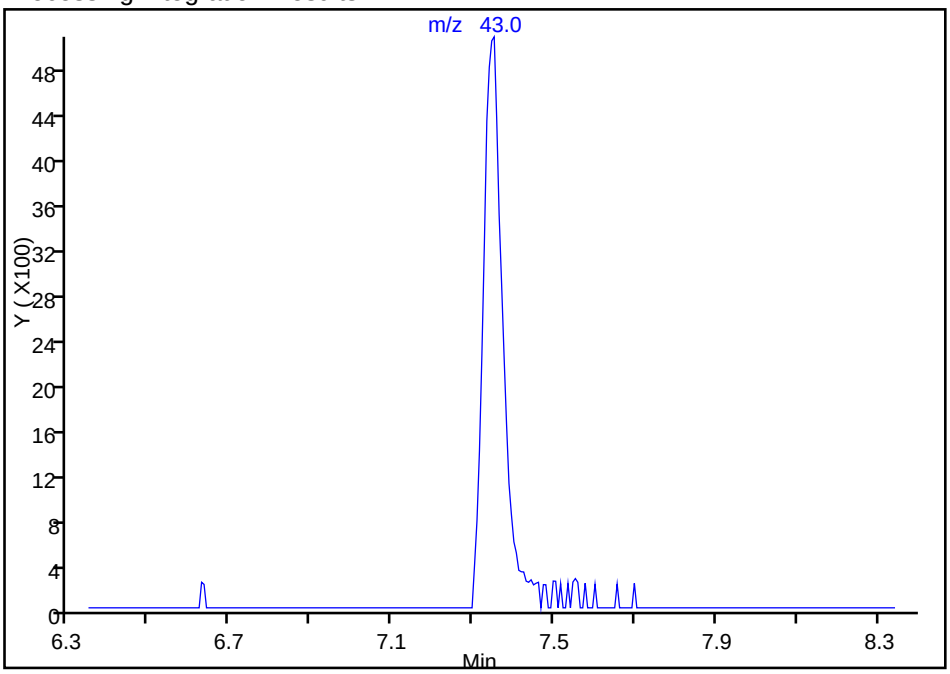
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032909.D				
Injection Date:	29-Mar-2014 19:15:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-5	Lab Sample ID:	320-6800-5		
Client ID:	34001230				
Operator ID:	AO	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

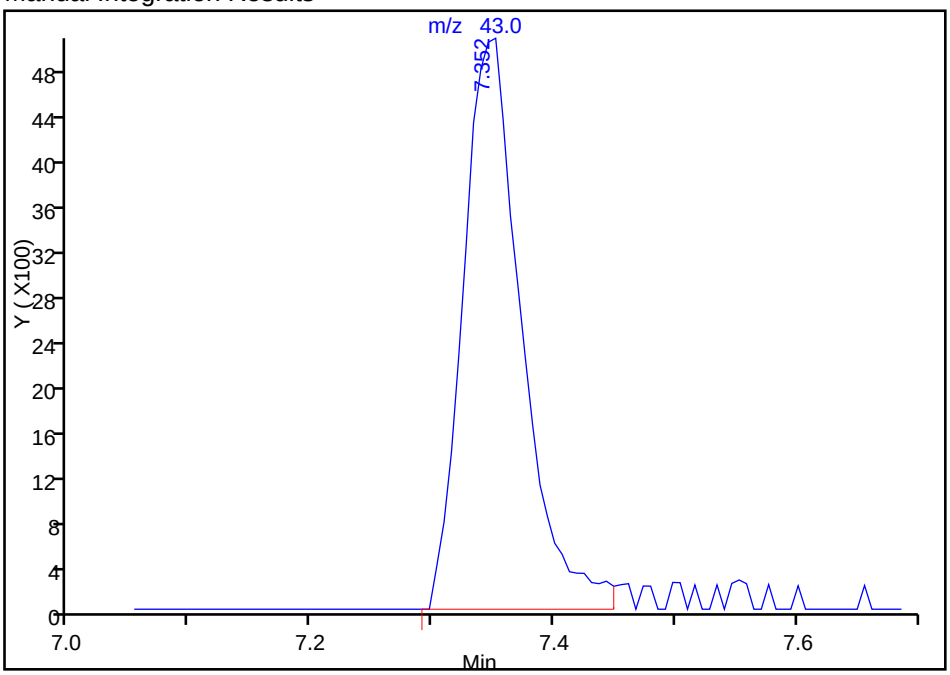
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.35
Response: 17161
Amount: 0.177529

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:27:44
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 8290 | Lab Sample ID: 320-6800-6

Matrix: Air | Lab File ID: MS5032910.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 8290 | Lab Sample ID: 320-6800-6

Matrix: Air | Lab File ID: MS5032910.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 20:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 8290 Lab Sample ID: 320-6800-6

Matrix: Air Lab File ID: MS5032910.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 20:23

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032910.D
Lims ID: 320-6800-A-6 Lab Sample ID: 320-6800-6
Client ID: 8290
Sample Type: Client
Inject. Date: 29-Mar-2014 20:23:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-6
Misc. Info.: 500mL;8290
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:27:54 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:27:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	312157	7.76	
* 2 1,4-Difluorobenzene	114	12.584	12.584	0.0	93	1260952	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.782	16.775	0.007	82	1071892	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	363540	7.82	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	795247	7.95	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	676140	7.57	
33 Acetone	43	7.364	7.364	0.018	65	2213	0.0231	7a

QC Flag Legend

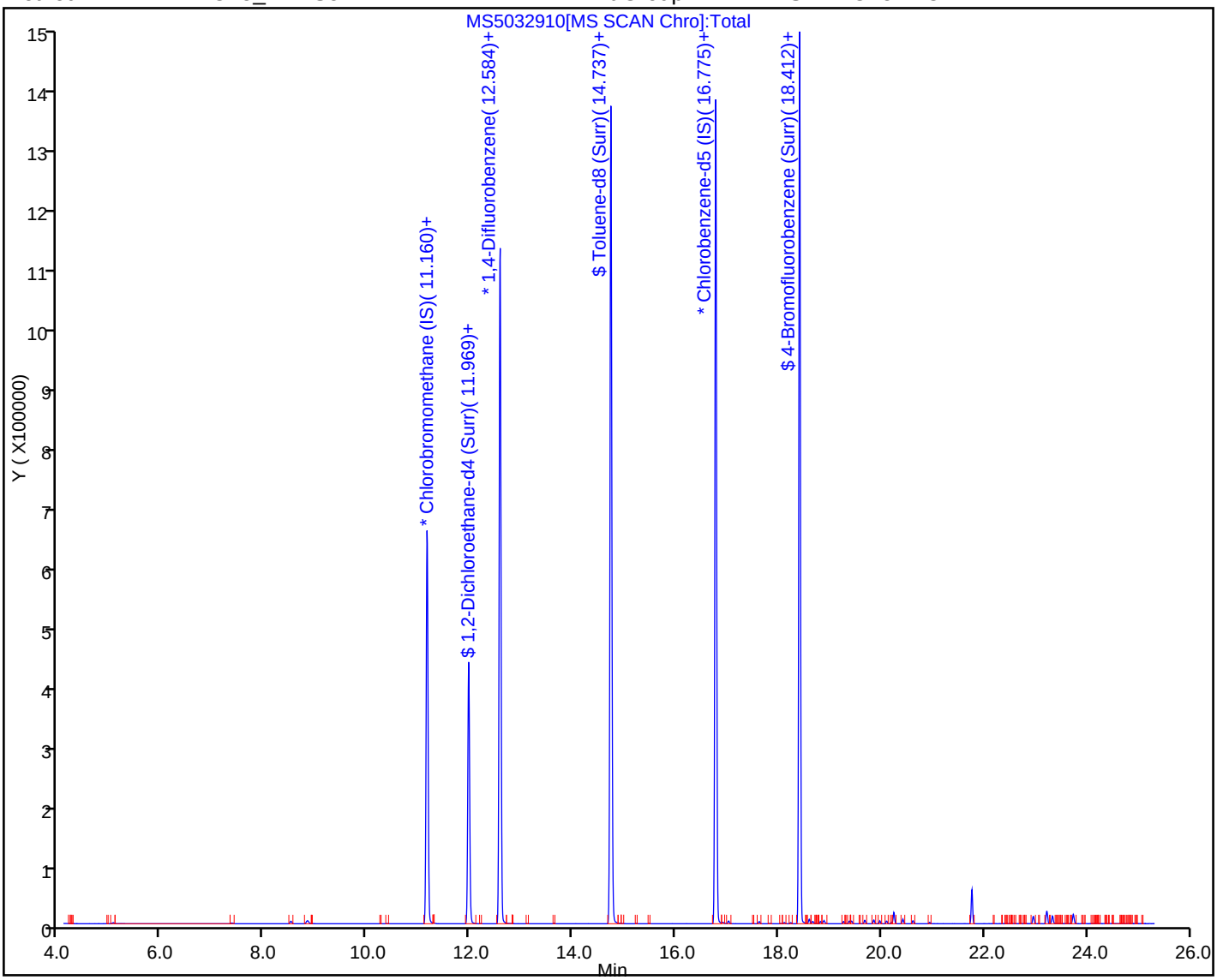
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:27:54 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032910.D				
Injection Date:	29-Mar-2014 20:23:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-6	Lab Sample ID:	320-6800-6		
Client ID:	8290				
Operator ID:	AO	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



Manual Integration/User Assign Peak Report

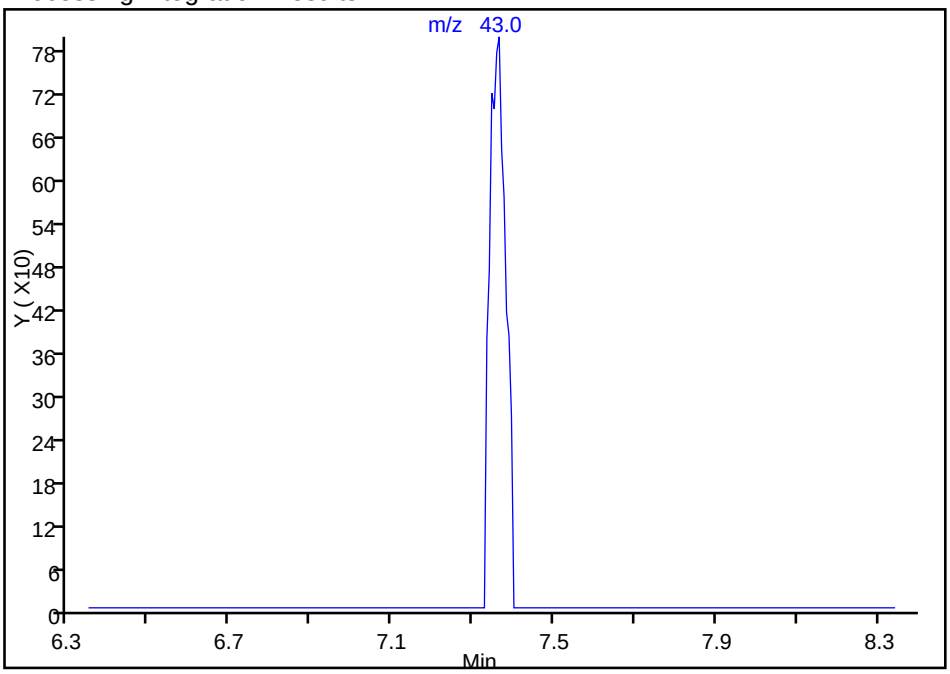
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032910.D				
Injection Date:	29-Mar-2014 20:23:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-6	Lab Sample ID:	320-6800-6		
Client ID:	8290				
Operator ID:	AO	ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

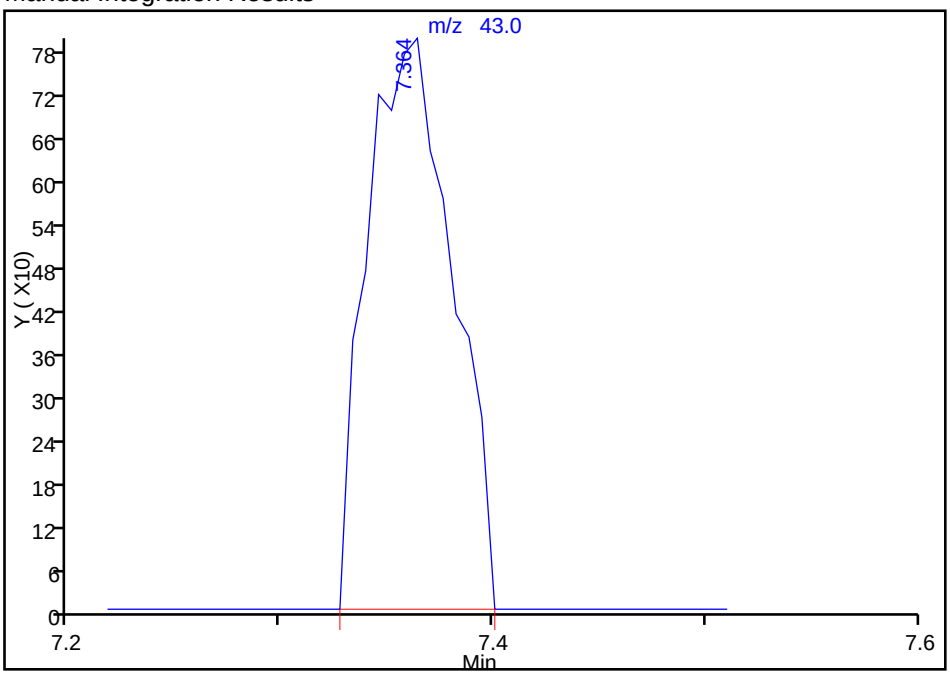
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.36
Response: 2213
Amount: 0.023107

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:27:54
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001747 Lab Sample ID: 320-6800-7

Matrix: Air Lab File ID: MS5032911.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 21:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001747 | Lab Sample ID: 320-6800-7

Matrix: Air | Lab File ID: MS5032911.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/29/2014 21:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001747 Lab Sample ID: 320-6800-7

Matrix: Air Lab File ID: MS5032911.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 21:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	94		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032911.D
Lims ID: 320-6800-A-7 Lab Sample ID: 320-6800-7
Client ID: 34001747
Sample Type: Client
Inject. Date: 29-Mar-2014 21:31:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-7
Misc. Info.: 500mL;34001747
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:28:02 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:28:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	313594	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1267329	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	82	1070233	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	368798	7.90	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	797017	7.93	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	672823	7.55	
33 Acetone	43	7.346	7.346	0.0	67	4869	0.0506	7a

QC Flag Legend

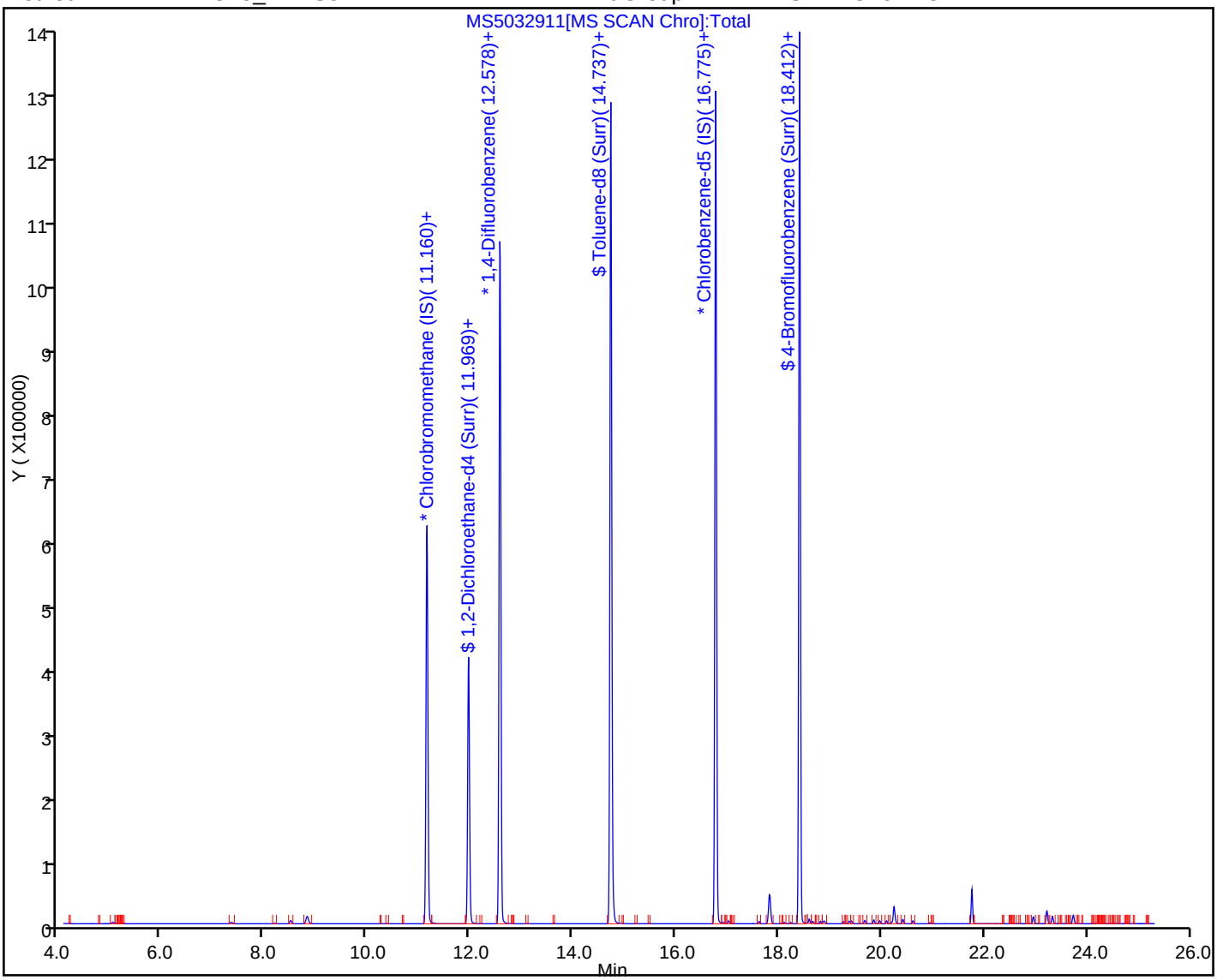
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:28:03 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032911.D				
Injection Date:	29-Mar-2014 21:31:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-7	Lab Sample ID:	320-6800-7		
Client ID:	34001747				
Operator ID:	AO	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



Manual Integration/User Assign Peak Report

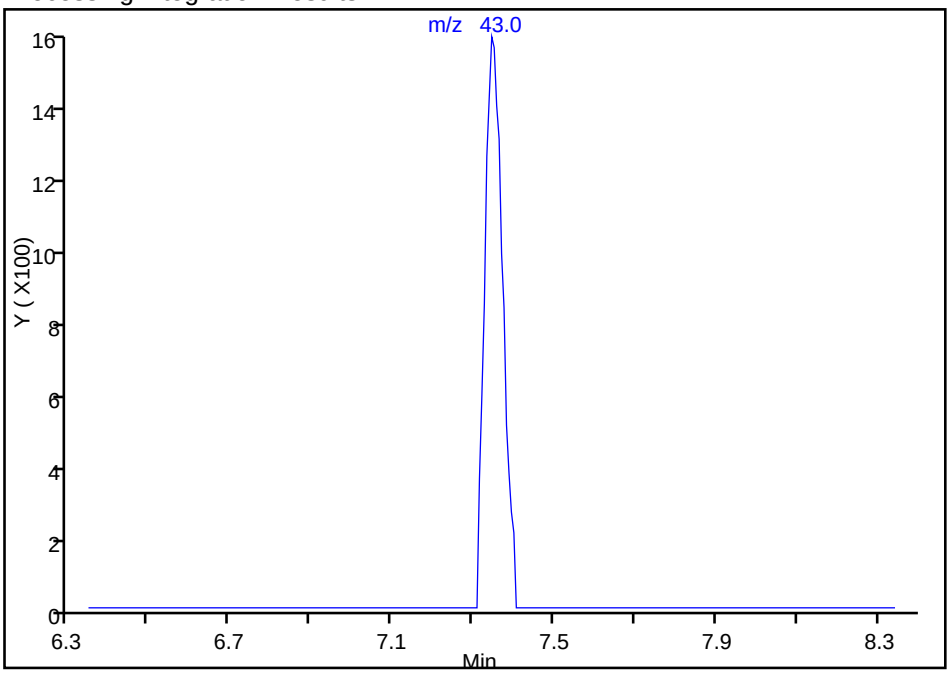
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032911.D				
Injection Date:	29-Mar-2014 21:31:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-7	Lab Sample ID:	320-6800-7		
Client ID:	34001747				
Operator ID:	AO	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

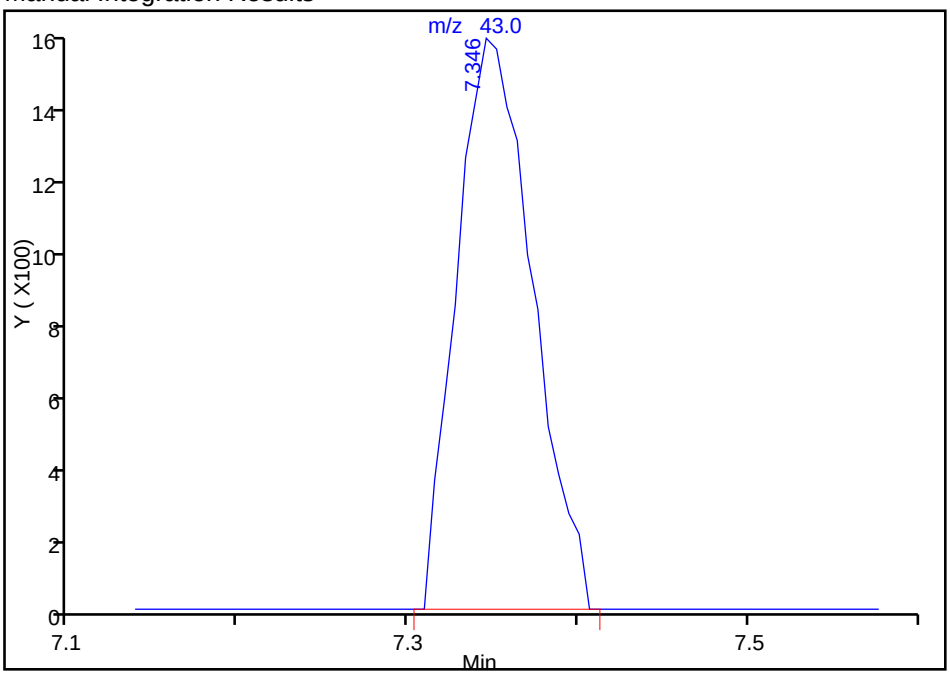
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.35
Response: 4869
Amount: 0.050608

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:28:02
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001854 Lab Sample ID: 320-6800-8

Matrix: Air Lab File ID: MS5032912.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 22:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001854 Lab Sample ID: 320-6800-8

Matrix: Air Lab File ID: MS5032912.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 22:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001854 Lab Sample ID: 320-6800-8

Matrix: Air Lab File ID: MS5032912.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/29/2014 22:41

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032912.D
Lims ID: 320-6800-A-8 Lab Sample ID: 320-6800-8
Client ID: 34001854
Sample Type: Client
Inject. Date: 29-Mar-2014 22:41:30 ALS Bottle#: 13 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-8
Misc. Info.: 500mL;34001854
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:28:11 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:28:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	310617	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1262753	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	82	1078541	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	367375	7.90	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	797242	7.96	
$ 6 4-Bromofluorobenzene (Surr)	95	18.406	18.412	-0.006	90	684706	7.62	
33 Acetone	43	7.352	7.352	0.006	67	3322	0.0349	7a

QC Flag Legend

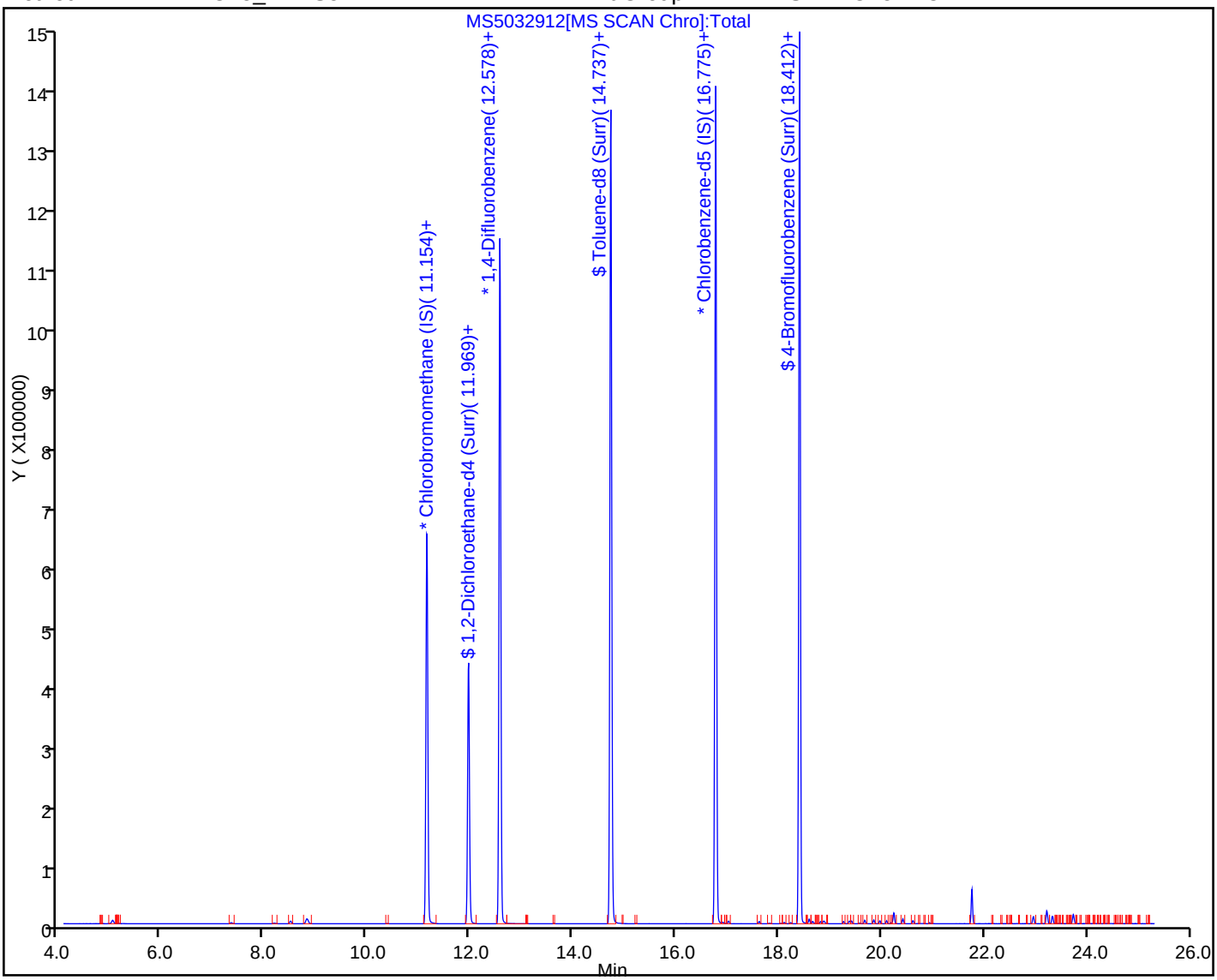
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:28:12 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032912.D				
Injection Date:	29-Mar-2014 22:41:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-8	Lab Sample ID:	320-6800-8		
Client ID:	34001854				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



Manual Integration/User Assign Peak Report

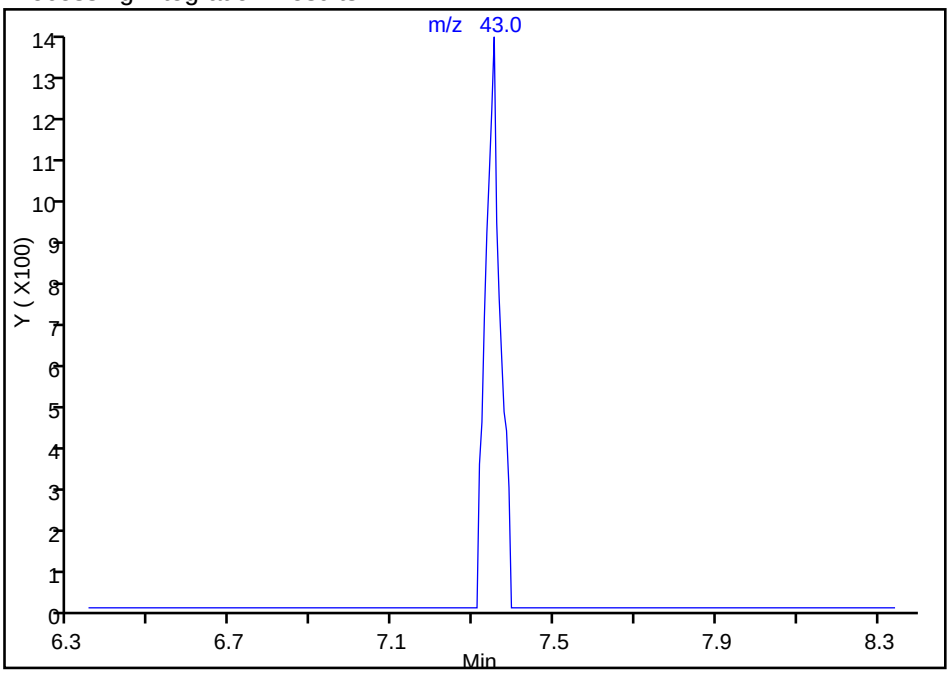
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032912.D				
Injection Date:	29-Mar-2014 22:41:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-8	Lab Sample ID:	320-6800-8		
Client ID:	34001854				
Operator ID:	AO	ALS Bottle#:	13	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

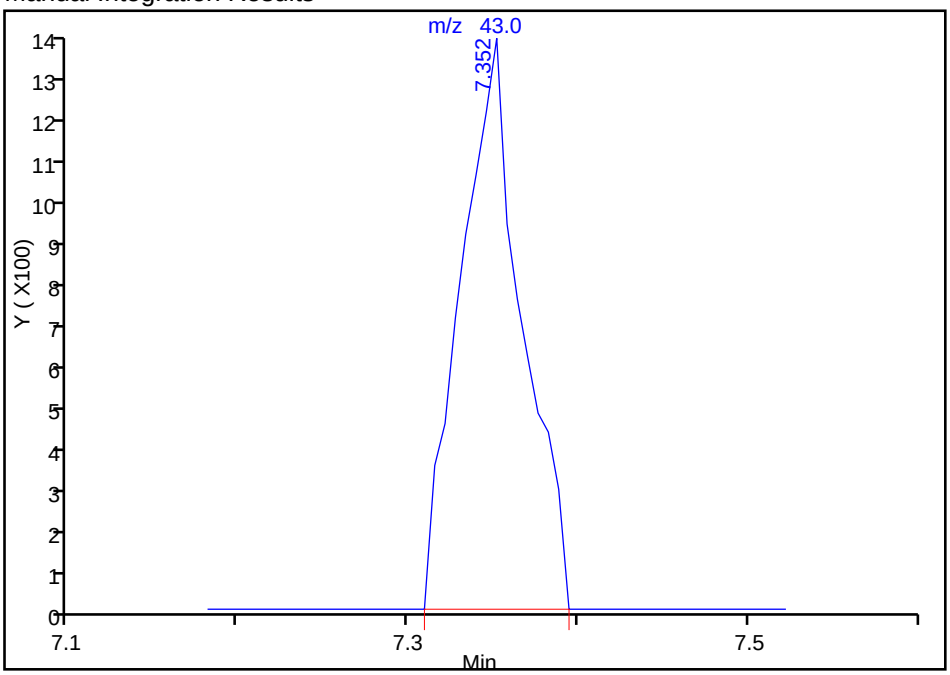
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.35
Response: 3322
Amount: 0.034859

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:28:11
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001709 | Lab Sample ID: 320-6800-10

Matrix: Air | Lab File ID: MS5032914.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 00:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001709 Lab Sample ID: 320-6800-10

Matrix: Air Lab File ID: MS5032914.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 00:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001709 Lab Sample ID: 320-6800-10

Matrix: Air Lab File ID: MS5032914.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 00:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	95		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032914.D
Lims ID: 320-6800-A-10 Lab Sample ID: 320-6800-10
Client ID: 34001709
Sample Type: Client
Inject. Date: 30-Mar-2014 00:54:30 ALS Bottle#: 15 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-10
Misc. Info.: 500mL;34001709
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:28:33 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:28:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	299609	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1219500	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	82	1034701	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	358307	7.97	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	94	773934	8.00	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	90	654528	7.59	
33 Acetone	43	7.352	7.352	0.006	66	4542	0.0494	7a

QC Flag Legend

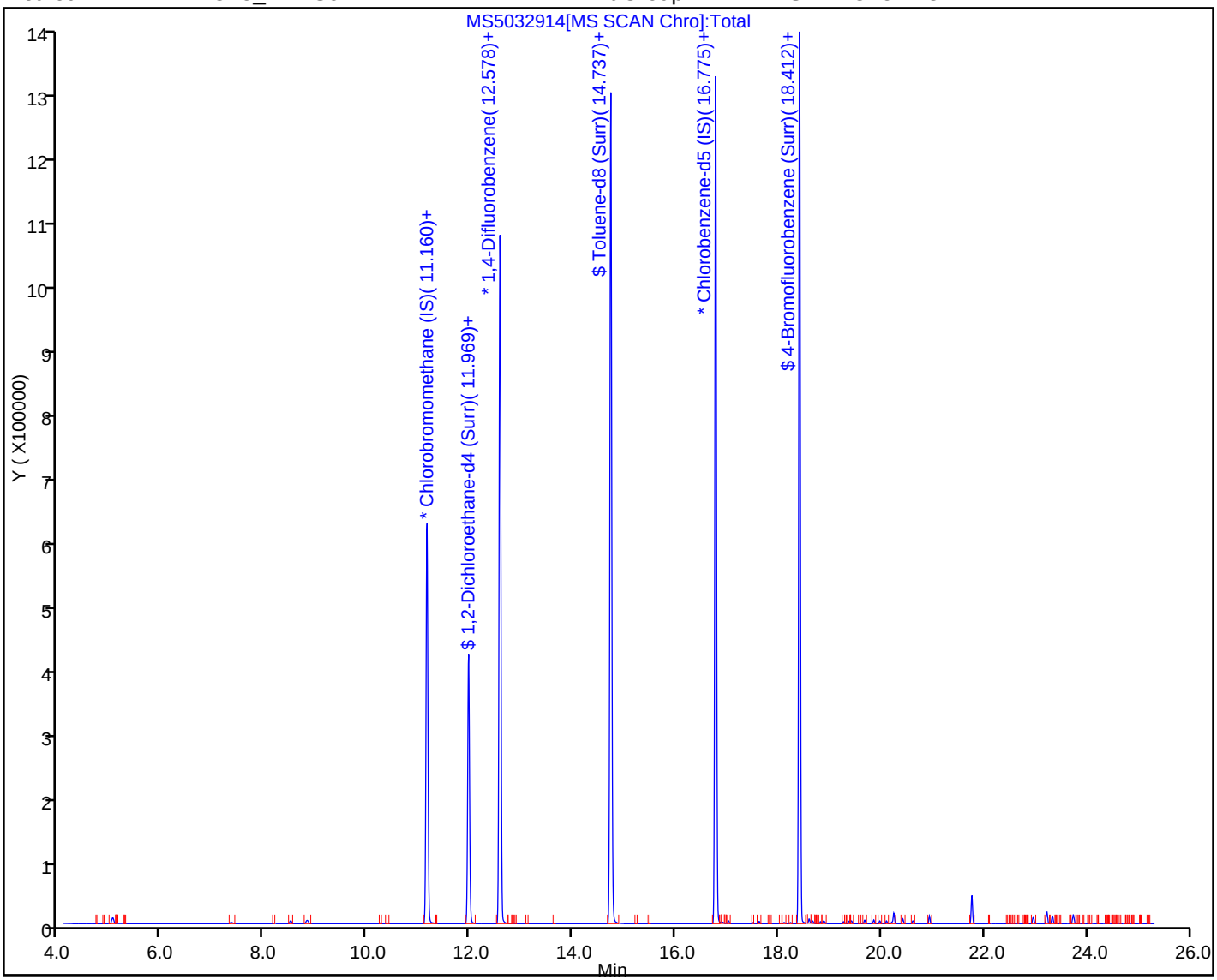
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:28:33 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032914.D				
Injection Date:	30-Mar-2014 00:54:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-10	Lab Sample ID:	320-6800-10		
Client ID:	34001709				
Operator ID:	AO	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



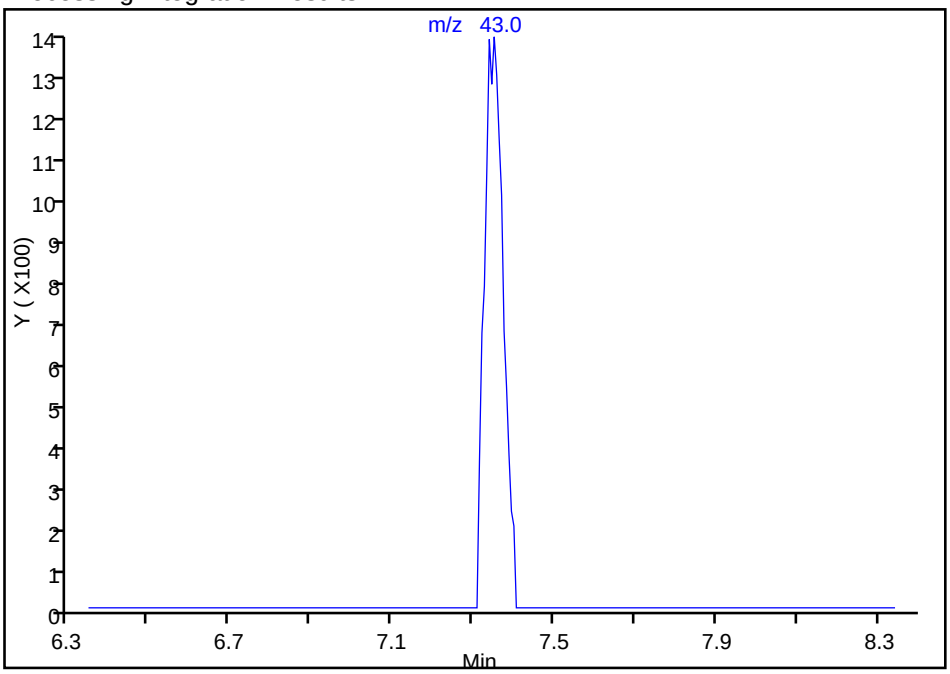
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032914.D				
Injection Date:	30-Mar-2014 00:54:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-10	Lab Sample ID:	320-6800-10		
Client ID:	34001709				
Operator ID:	AO	ALS Bottle#:	15	Worklist Smp#:	15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

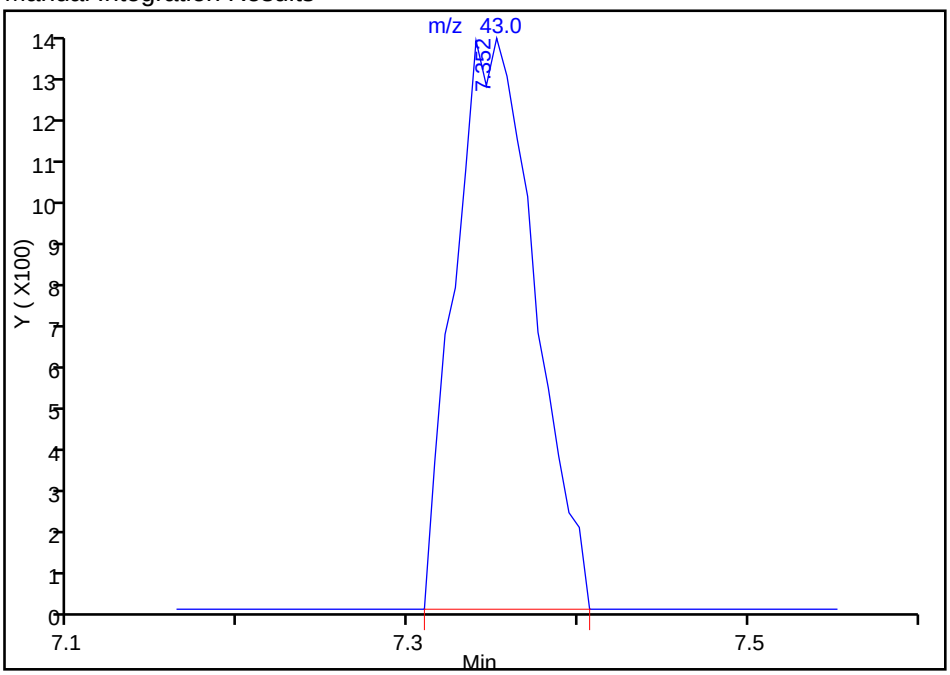
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.35
Response: 4542
Amount: 0.049412

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:28:33
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001803 | Lab Sample ID: 320-6800-11

Matrix: Air | Lab File ID: MS5032915.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 02:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001803 | Lab Sample ID: 320-6800-11

Matrix: Air | Lab File ID: MS5032915.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 02:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 34001803 Lab Sample ID: 320-6800-11

Matrix: Air Lab File ID: MS5032915.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 02:05

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032915.D
Lims ID: 320-6800-A-11 Lab Sample ID: 320-6800-11
Client ID: 34001803
Sample Type: Client
Inject. Date: 30-Mar-2014 02:05:30 ALS Bottle#: 16 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-11
Misc. Info.: 500mL;34001803
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:28:41 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:28:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	300257	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1216364	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.776	16.775	0.001	82	1032598	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.970	11.975	-0.005	0	360488	8.04	
$ 5 Toluene-d8 (Surr)	100	14.738	14.737	0.001	93	772503	8.01	
$ 6 4-Bromofluorobenzene (Surr)	95	18.406	18.412	-0.006	90	642024	7.46	
33 Acetone	43	7.346	7.346	0.0	29	1379	0.0150	7a

QC Flag Legend

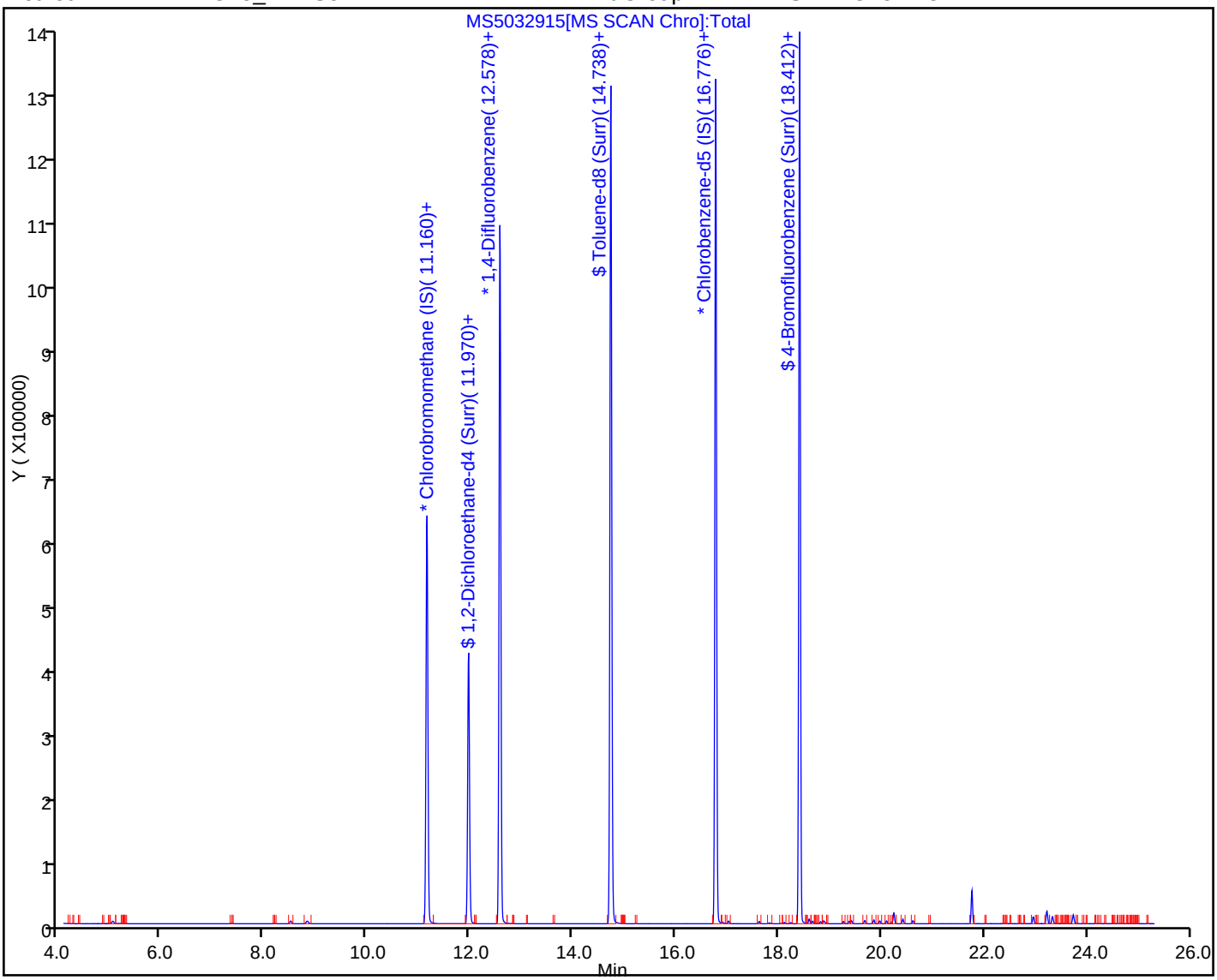
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:28:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032915.D				
Injection Date:	30-Mar-2014 02:05:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-11	Lab Sample ID:	320-6800-11		
Client ID:	34001803				
Operator ID:	AO	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



Manual Integration/User Assign Peak Report

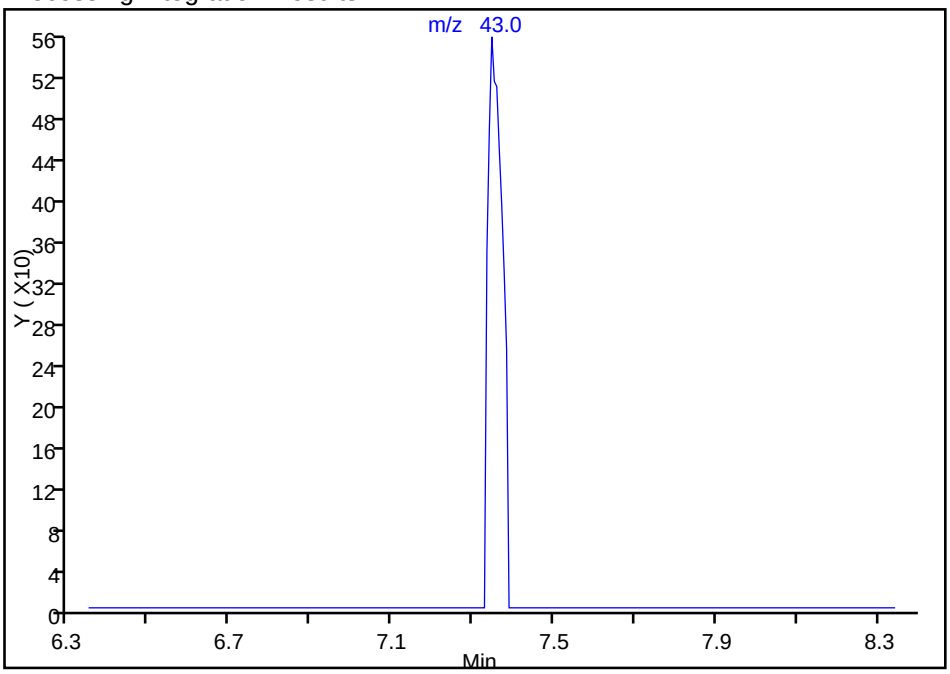
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032915.D				
Injection Date:	30-Mar-2014 02:05:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-11	Lab Sample ID:	320-6800-11		
Client ID:	34001803				
Operator ID:	AO	ALS Bottle#:	16	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

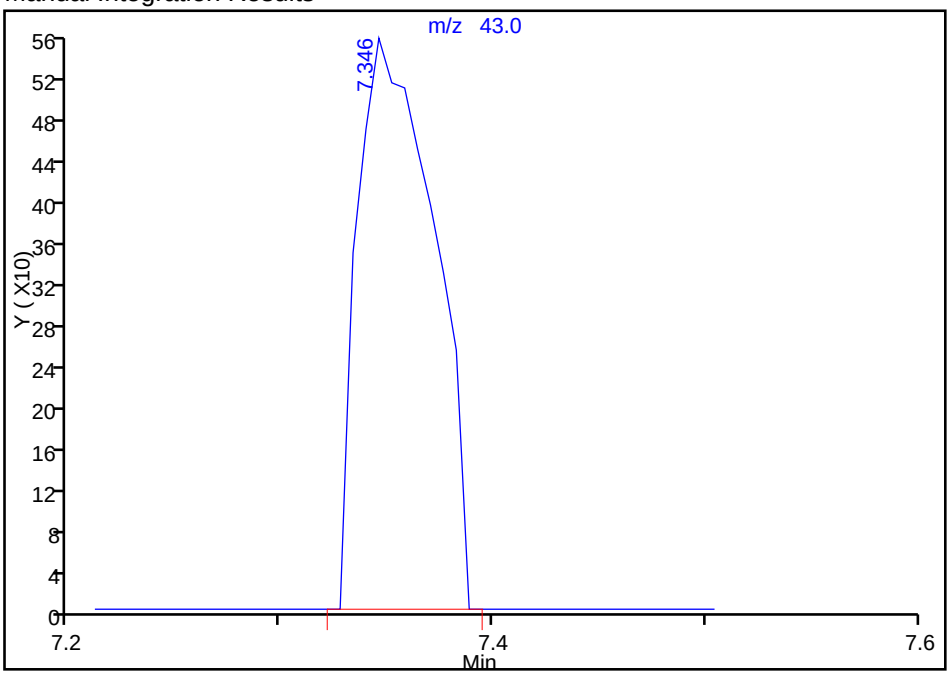
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.35
Response: 1379
Amount: 0.014970

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:28:41
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 7509 | Lab Sample ID: 320-6800-12

Matrix: Air | Lab File ID: MS5032916.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	ND		5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6800-1

SDG No.:

Client Sample ID: 7509 | Lab Sample ID: 320-6800-12

Matrix: Air | Lab File ID: MS5032916.D

Analysis Method: TO-15 | Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 03/30/2014 03:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39332 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6800-1

SDG No.:

Client Sample ID: 7509 Lab Sample ID: 320-6800-12

Matrix: Air Lab File ID: MS5032916.D

Analysis Method: TO-15 Date Collected: 03/13/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 03/30/2014 03:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39332 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	93		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032916.D
Lims ID: 320-6800-A-12 Lab Sample ID: 320-6800-12
Client ID: 7509
Sample Type: Client
Inject. Date: 30-Mar-2014 03:16:30 ALS Bottle#: 12 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6800-12
Misc. Info.: 500mL;7509
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 31-Mar-2014 09:29:23 Calib Date: 29-Mar-2014 12:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032903.D

Column 1 : Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: ortizam Date: 31-Mar-2014 09:31:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.166	-0.006	93	287391	7.76	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	1162257	8.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.0	82	982095	8.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	11.969	11.975	-0.006	0	344346	8.04	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.0	93	729615	7.92	
$ 6 4-Bromofluorobenzene (Surr)	95	18.412	18.412	0.0	91	610410	7.46	
33 Acetone	43	7.346	7.346	0.0	67	7944	0.0901	7a

QC Flag Legend

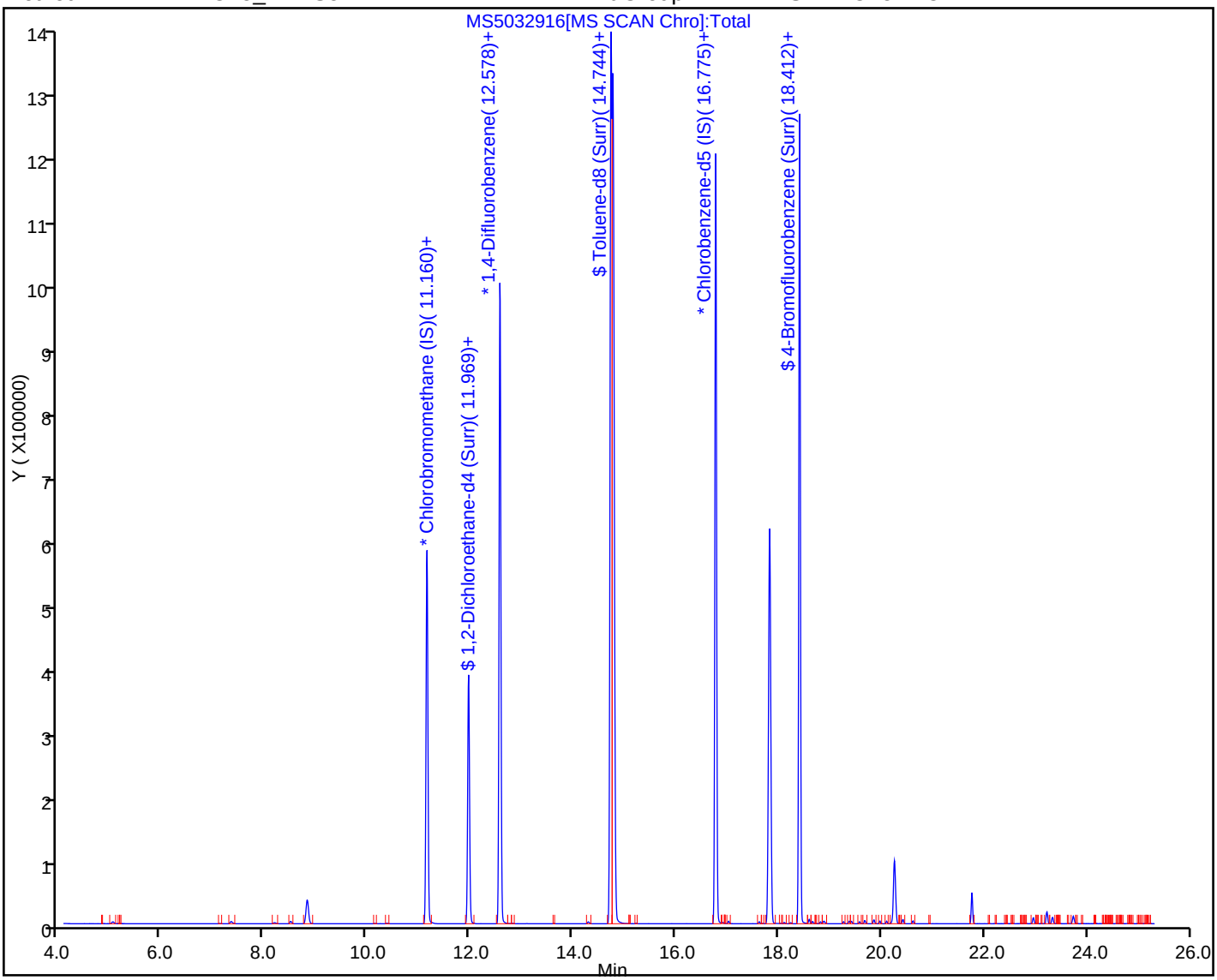
Processing Flags
7 - Failed Limit of Detection

Review Flags
a - User Assigned ID

Report Date: 31-Mar-2014 09:31:15 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032916.D				
Injection Date:	30-Mar-2014 03:16:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-12	Lab Sample ID:	320-6800-12		
Client ID:	7509				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		



Manual Integration/User Assign Peak Report

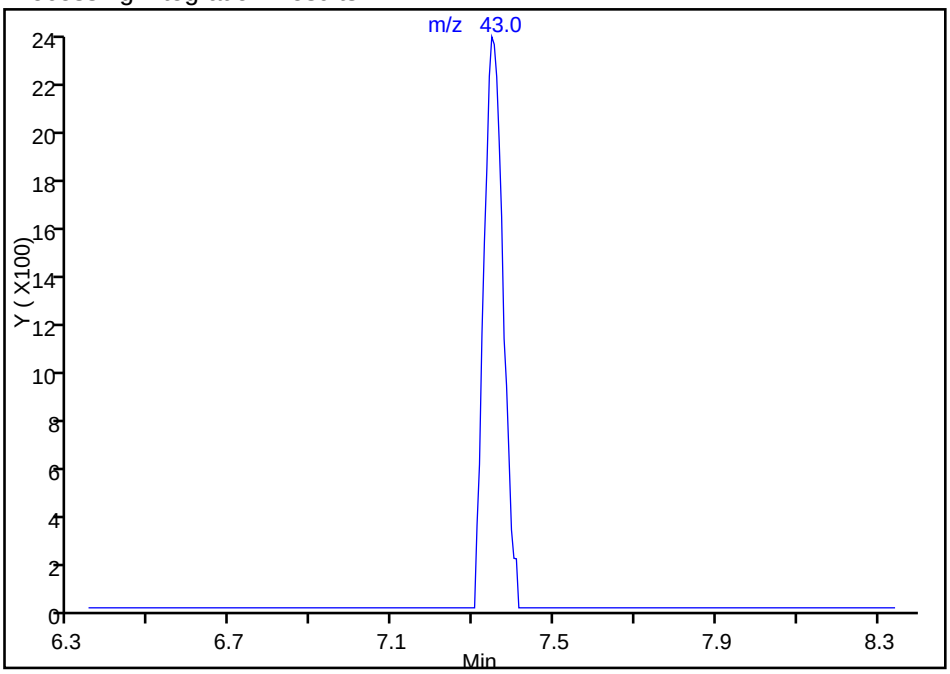
TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140329-11455.b\MS5032916.D				
Injection Date:	30-Mar-2014 03:16:30	Instrument ID:	ATMS5		
Lims ID:	320-6800-A-12	Lab Sample ID:	320-6800-12		
Client ID:	7509				
Operator ID:	AO	ALS Bottle#:	12	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

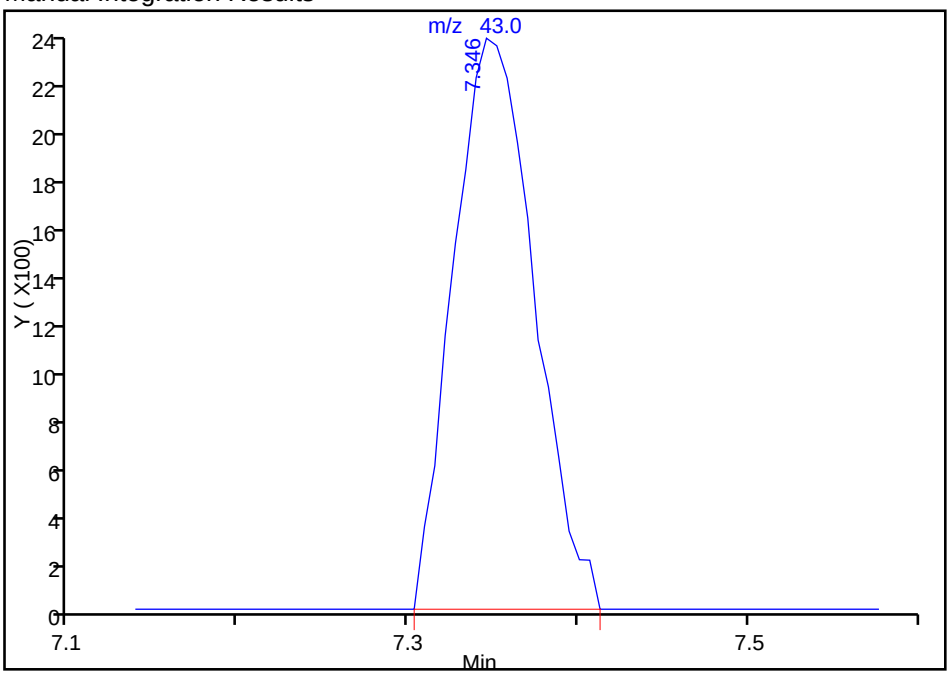
Not Detected
Expected RT: 7.35

Processing Integration Results



RT: 7.35
Response: 7944
Amount: 0.090097

Manual Integration Results



Reviewer: ortizam, 31-Mar-2014 09:31:14
Audit Action: Assigned Compound ID
Audit Reason:

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6850-1

SDG No.:

Client Sample ID: 34001598 | Lab Sample ID: 320-6850-4

Matrix: Air | Lab File ID: MS7040211.d

Analysis Method: TO-15 | Date Collected: 03/31/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/02/2014 21:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39755 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.5	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6850-1

SDG No.:

Client Sample ID: 34001598 | Lab Sample ID: 320-6850-4

Matrix: Air | Lab File ID: MS7040211.d

Analysis Method: TO-15 | Date Collected: 03/31/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/02/2014 21:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39755 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6850-1

SDG No.:

Client Sample ID: 34001598 Lab Sample ID: 320-6850-4

Matrix: Air Lab File ID: MS7040211.d

Analysis Method: TO-15 Date Collected: 03/31/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 04/02/2014 21:31

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39755 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	92		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140402-11551.b\MS7040211.d
Lims ID: 320-6850-A-4 Lab Sample ID: 320-6850-4
Client ID: 34001598
Sample Type: Client
Inject. Date: 02-Apr-2014 21:31:30 ALS Bottle#: 11 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6850-4
Misc. Info.: 500mL;34001598
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140402-11551.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 03-Apr-2014 11:48:14 Calib Date: 02-Apr-2014 14:22:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140402-11551.b\MS7040203.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK048

First Level Reviewer: ortizam Date: 03-Apr-2014 09:52:28

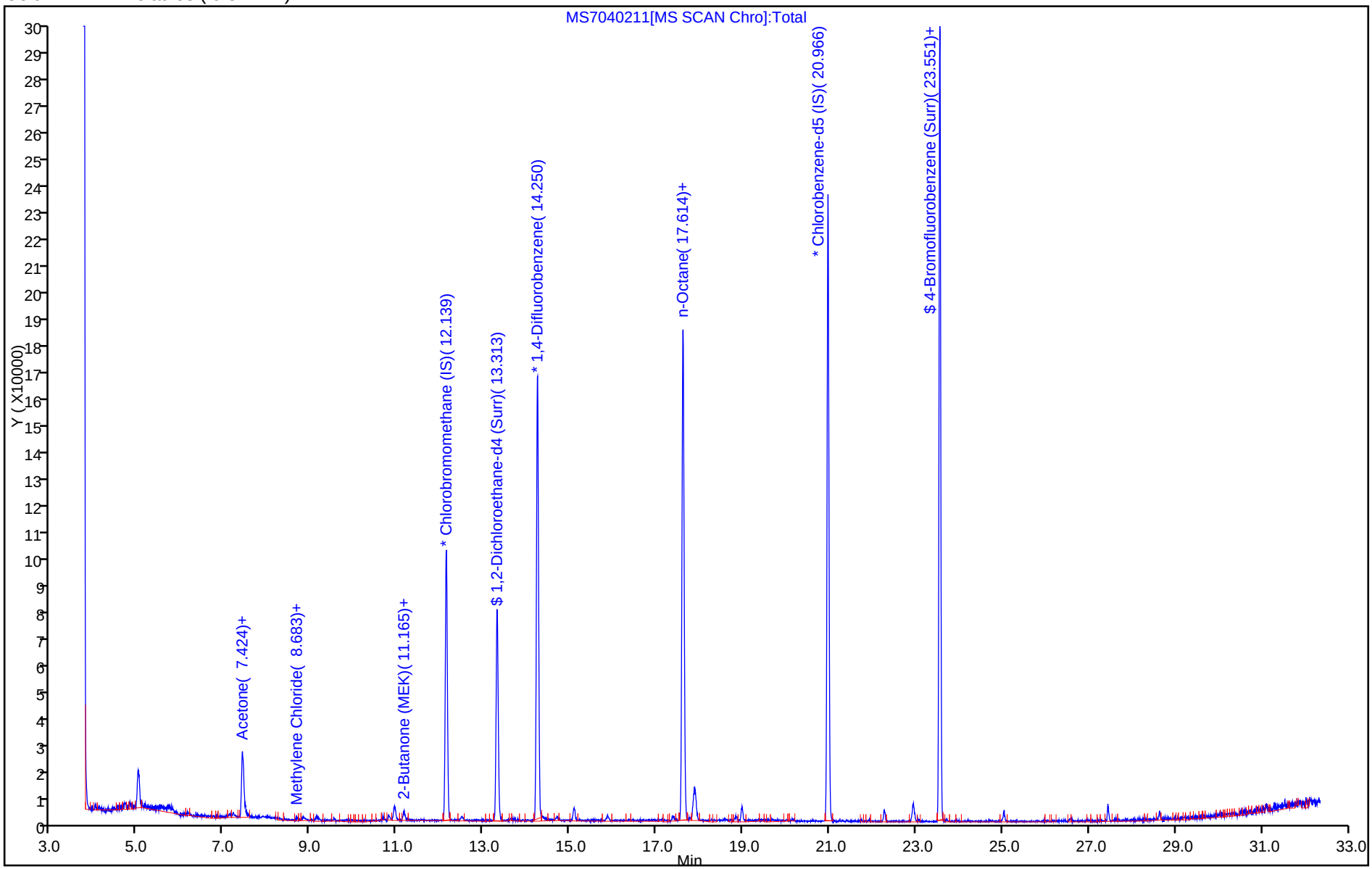
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.145	12.139	0.006	90	52977	4.00	
* 2 1,4-Difluorobenzene	114	14.250	14.243	0.007	90	210945	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.966	20.966	0.0	86	199674	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.307	13.313	-0.006	0	108219	4.08	
$ 5 Toluene-d8 (Surr)	100	17.608	17.620	-0.012	89	137557	4.03	
$ 6 4-Bromofluorobenzene (Surr)	95	23.551	23.557	-0.006	90	150842	3.66	
31 Acetone	43	7.418	7.436	-0.018	99	59124	1.46	
47 Methylene Chloride	49	8.695	8.665	0.030	1	1165	0.0364	
54 2-Butanone (MEK)	72	11.153	11.141	0.012	77	1388	0.1710	
88 n-Octane	43	17.589	17.650	-0.061	1	1164	0.0228	

Report Date: 03-Apr-2014 13:44:15 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140402-11551.b\MS7040211.d				
Injection Date:	02-Apr-2014 21:31:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6850-A-4	Lab Sample ID:	320-6850-4	Worklist Smp#:	10
Client ID:	34001598				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

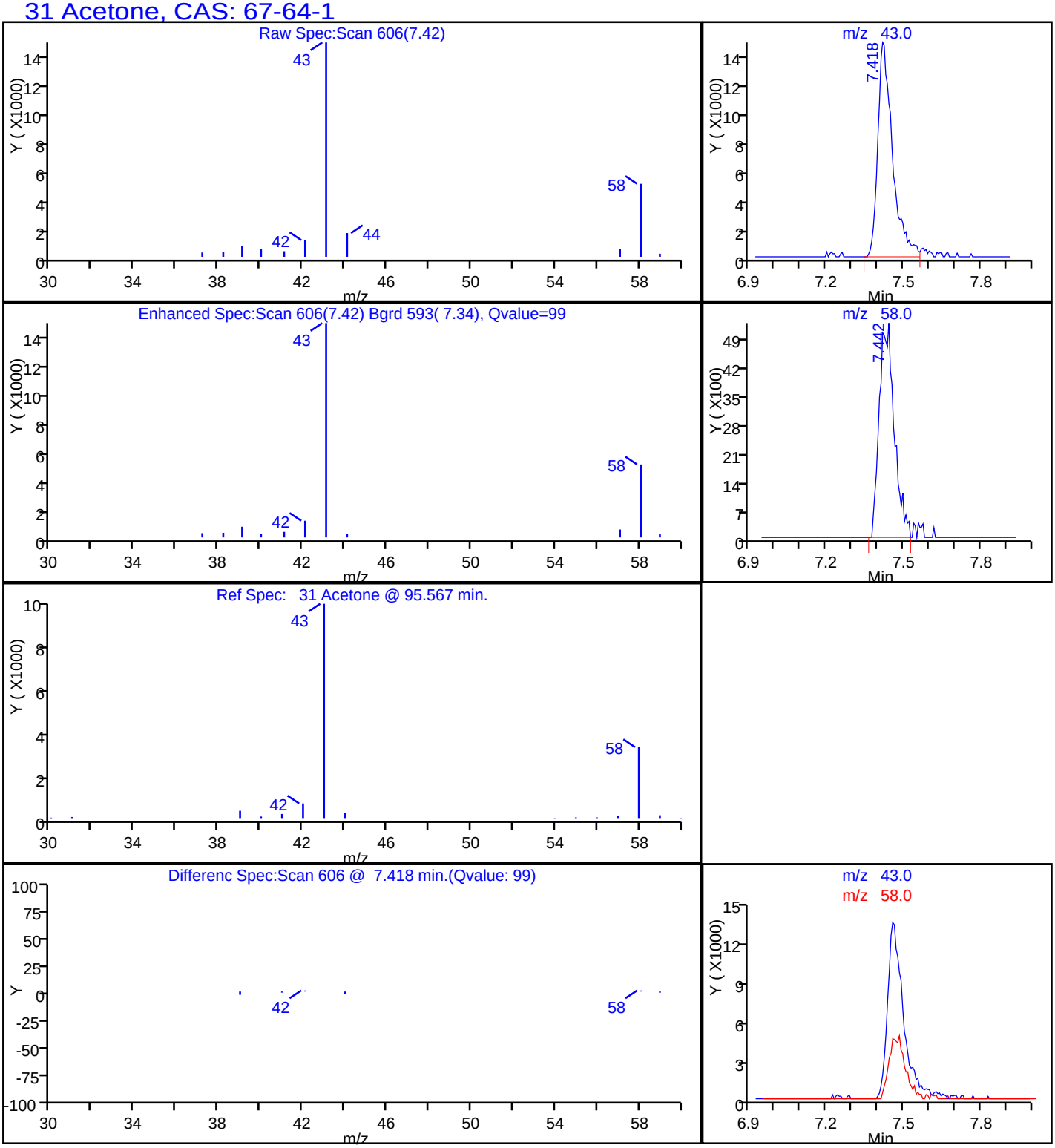


Report Date: 03-Apr-2014 13:44:15 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140402-11551.b\MS7040211.d				
Injection Date:	02-Apr-2014 21:31:30	Instrument ID:	ATMS7		
Lims ID:	320-6850-A-4	Lab Sample ID:	320-6850-4		
Client ID:	34001598				
Operator ID:	AO	ALS Bottle#:	11	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Sacramento | Job No.: 320-6903-1

SDG No.:

Client Sample ID: 34002173 | Lab Sample ID: 320-6903-9

Matrix: Air | Lab File ID: MS7040407.d

Analysis Method: TO-15 | Date Collected: 04/04/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/04/2014 17:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39847 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	1.3	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	0.28	J	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-6903-1

SDG No.:

Client Sample ID: 34002173 | Lab Sample ID: 320-6903-9

Matrix: Air | Lab File ID: MS7040407.d

Analysis Method: TO-15 | Date Collected: 04/04/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/04/2014 17:58

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 39847 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	0.30	J	0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-6903-1

SDG No.:

Client Sample ID: 34002173 Lab Sample ID: 320-6903-9

Matrix: Air Lab File ID: MS7040407.d

Analysis Method: TO-15 Date Collected: 04/04/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 04/04/2014 17:58

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 39847 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		70-130
2037-26-5	Toluene-d8 (Surr)	114		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS7\20140404-11601.b\MS7040407.d
Lims ID: 320-6903-A-9 Lab Sample ID: 320-6903-9
Client ID: 34002173
Sample Type: Client
Inject. Date: 04-Apr-2014 17:58:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-6903-9
Misc. Info.: 500mL; 34002173
Operator ID: AO Instrument ID: ATMS7

Method: \\SACCHROM\ChromData\ATMS7\20140404-11601.b\TO15_ATMS7N.m
Limit Group: MSA - TO15 - ICAL
Last Update: 07-Apr-2014 09:32:14 Calib Date: 04-Apr-2014 12:47:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS7\20140404-11601.b\MS7040403.d

Column 1 : RTX Volatiles (0.32 mm) Det: MS SCAN
Process Host: XAWRK023

First Level Reviewer: ortizam Date: 07-Apr-2014 09:32:40

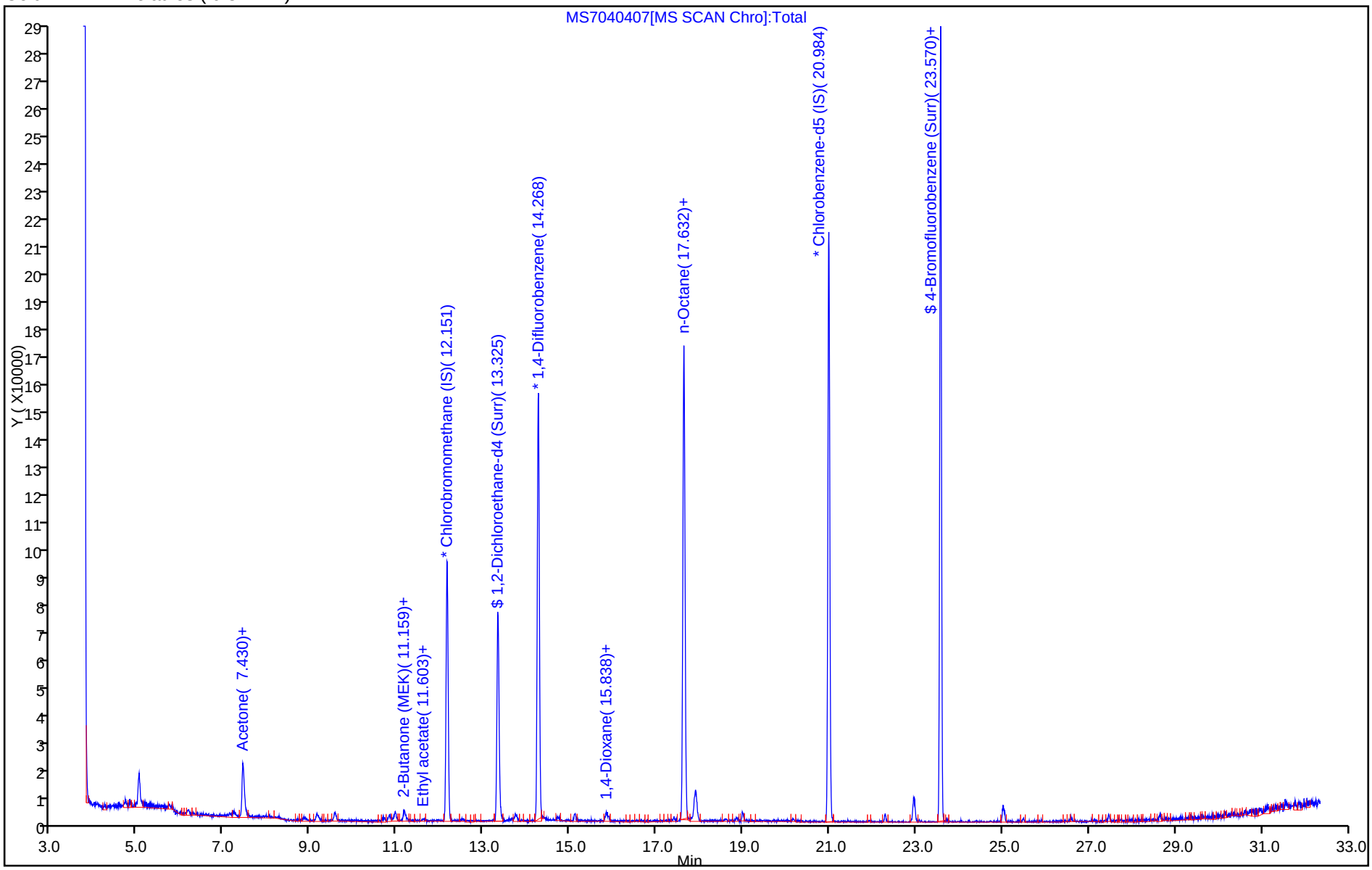
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.151	12.145	0.006	90	50582	4.00	
* 2 1,4-Difluorobenzene	114	14.268	14.256	0.012	90	198798	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.984	20.978	0.006	88	186396	4.00	
$ 4 1,2-Dichloroethane-d4 (Surr)	65	13.331	13.319	0.012	0	106008	4.05	
$ 5 Toluene-d8 (Surr)	100	17.632	17.620	0.012	89	129227	4.57	
$ 6 4-Bromofluorobenzene (Surr)	95	23.570	23.564	0.006	91	143654	3.87	
31 Acetone	43	7.436	7.442	-0.006	92	50321	1.28	
54 2-Butanone (MEK)	72	11.178	11.147	0.031	84	1786	0.2819	
58 Ethyl acetate	43	11.603	11.579	0.024	3	1730	0.0348	
68 Benzene	78	13.654	13.647	0.007	1	1739	0.0309	
72 1,4-Dioxane	88	15.838	15.831	0.007	33	3606	0.2969	
88 n-Octane	43	17.632	17.663	-0.031	1	1652	0.0285	

Report Date: 07-Apr-2014 09:32:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140404-11601.b\MS7040407.d				
Injection Date:	04-Apr-2014 17:58:30	Instrument ID:	ATMS7	Operator ID:	AO
Lims ID:	320-6903-A-9	Lab Sample ID:	320-6903-9	Worklist Smp#:	7
Client ID:	34002173				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)

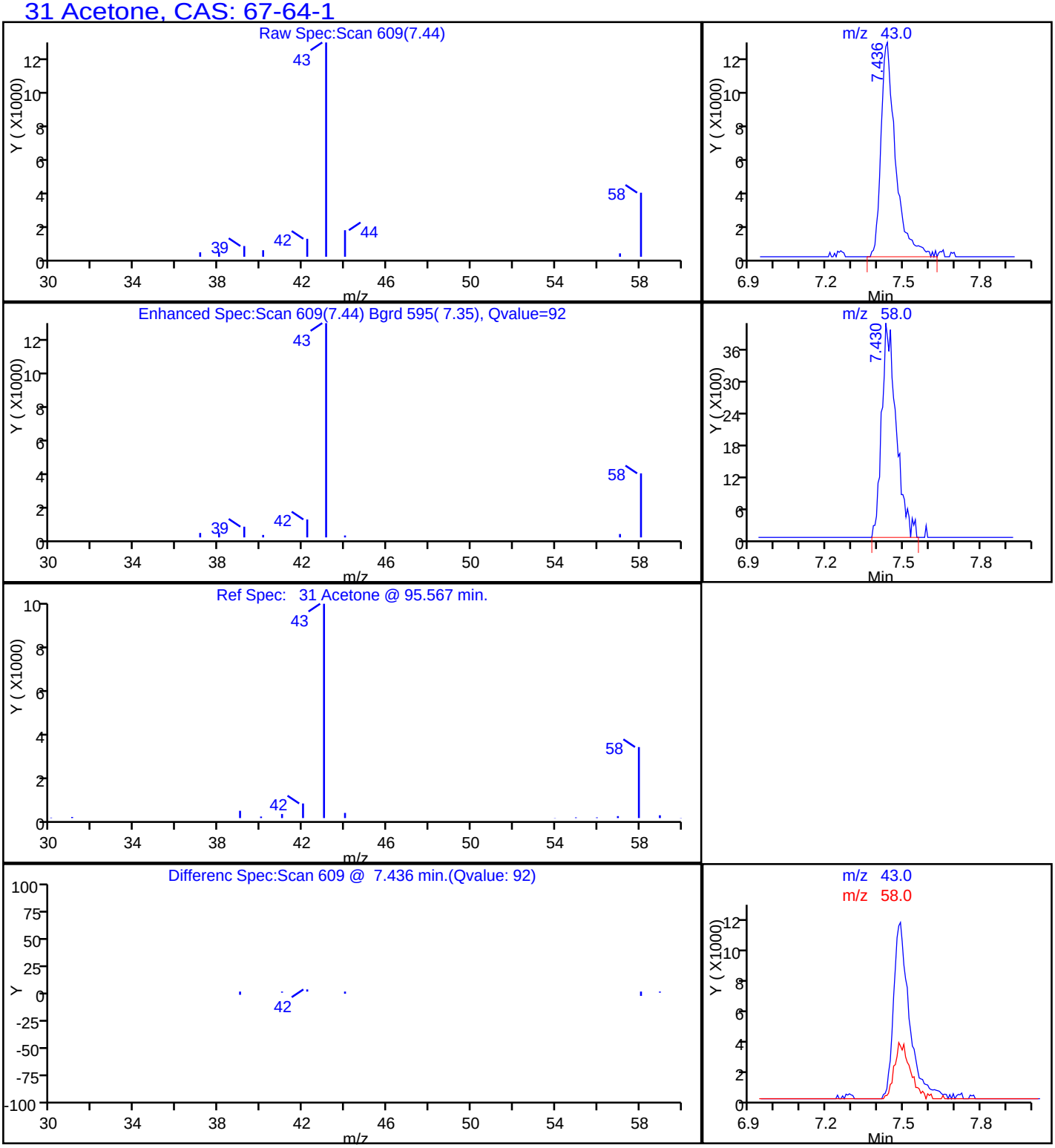


Report Date: 07-Apr-2014 09:32:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140404-11601.b\MS7040407.d				
Injection Date:	04-Apr-2014 17:58:30	Instrument ID:	ATMS7		
Lims ID:	320-6903-A-9	Lab Sample ID:	320-6903-9		
Client ID:	34002173				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1

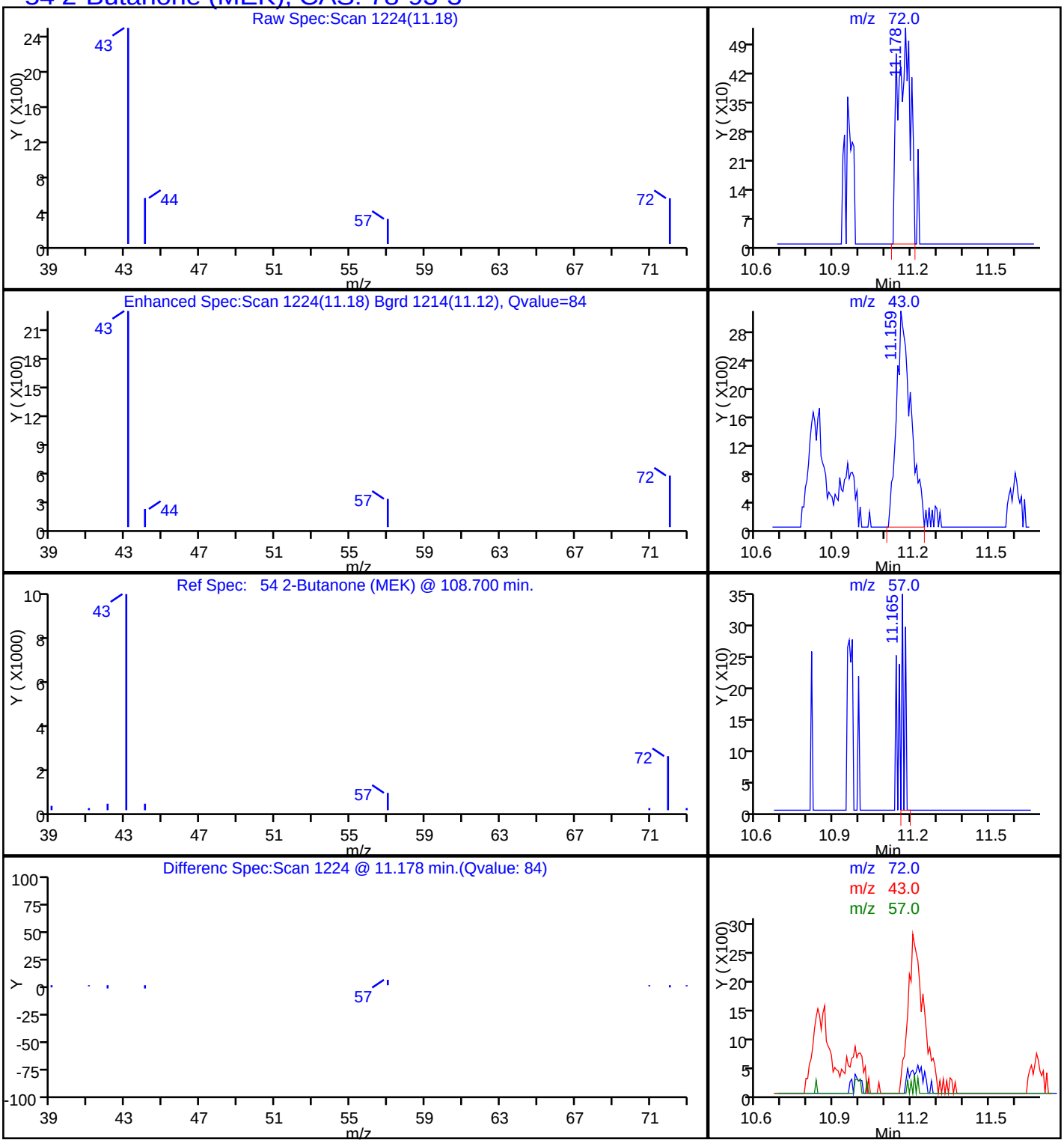


Report Date: 07-Apr-2014 09:32:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140404-11601.b\MS7040407.d				
Injection Date:	04-Apr-2014 17:58:30	Instrument ID:	ATMS7		
Lims ID:	320-6903-A-9	Lab Sample ID:	320-6903-9		
Client ID:	34002173				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

54 2-Butanone (MEK), CAS: 78-93-3

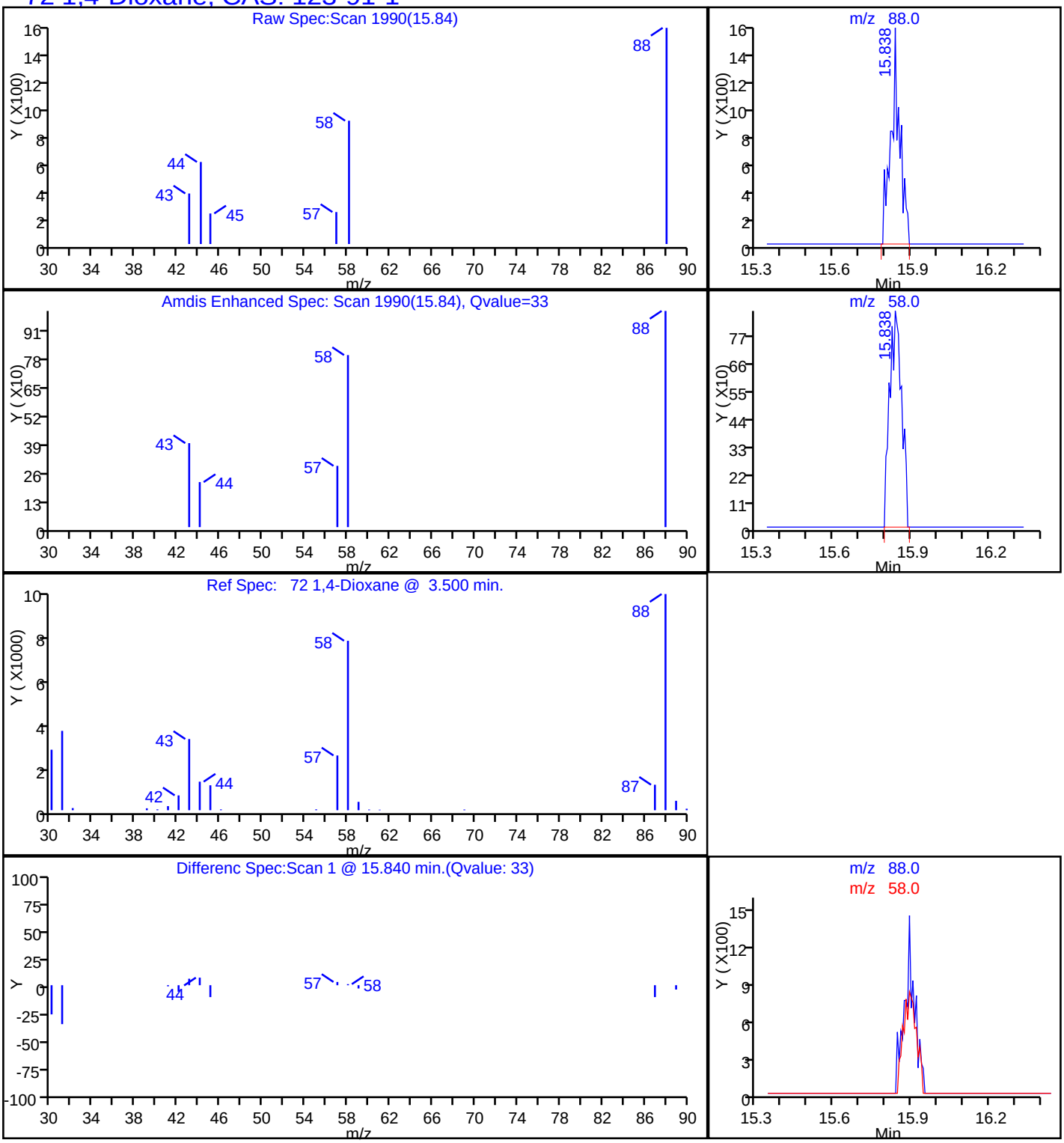


Report Date: 07-Apr-2014 09:32:40 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140404-11601.b\MS7040407.d				
Injection Date:	04-Apr-2014 17:58:30	Instrument ID:	ATMS7		
Lims ID:	320-6903-A-9	Lab Sample ID:	320-6903-9		
Client ID:	34002173				
Operator ID:	AO	ALS Bottle#:	6	Worklist Smp#:	7
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

72 1,4-Dioxane, CAS: 123-91-1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-8185-1
Client Project/Site: Park-Euclid WQARF Site

For:
URS Corporation
8181 East Tufts Ave.
Denver, Colorado 80237

Attn: Mr. Robert Boudra

Authorized for release by:
7/11/2014 4:49:56 PM

Laura Turpen, Project Manager I
(916)373-5600
laura.turpen@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 14
Lab Chronicle 15
Certification Summary 17
Method Summary 18
Sample Summary 19
Chain of Custody 20
Field Data Sheets 21
Receipt Checklists 28
Clean Canister Certification 29
Pre-Ship Certification 29
Clean Canister Data 30

Glossary

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

Job ID: 320-8185-1

Laboratory: TestAmerica Sacramento

Narrative

Receipt
The samples were received on 6/27/2014 9:30 AM; the samples arrived in good condition.

Except:

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC):
SG-1-06252014 (320-8185-1). The canister ID lists 3400365, while the COC lists 3400635.
SG-5-06252014 (320-8185-3). The canister ID lists 3400972, while the COC lists 34000927.

Air - GC/MS VOA
Method TO-15: The following sample was diluted due to the abundance of non-target analytes: SG-5-06252014 (320-8185-3). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-1-06252014 ← VW-08 — Lab Sample ID: 320-8185-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.84		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	39		0.40	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.70		0.40	ppb v/v	1		TO-15	Total/NA
1,1-Difluoroethane	4.7		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.3		1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	270		2.7	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.8		2.1	ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane	13		1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: SG-2-06252014 ← VW-09 — Lab Sample ID: 320-8185-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.88		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	45		0.40	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.75		0.40	ppb v/v	1		TO-15	Total/NA
1,1-Difluoroethane	4.6		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.5		1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	300		2.7	ug/m3	1		TO-15	Total/NA
Trichloroethene	4.1		2.1	ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane	12		1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: SG-5-06252014 ← VW-10 — Lab Sample ID: 320-8185-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	57		4.4	ppb v/v	11		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	390		30	ug/m3	11		TO-15	Total/NA

Client Sample ID: SG-6-06252014 ← VW-11 — Lab Sample ID: 320-8185-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.50		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	22		0.40	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.42		0.40	ppb v/v	1		TO-15	Total/NA
1,1-Difluoroethane	1.3		0.40	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.6	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	150		2.7	ug/m3	1		TO-15	Total/NA
Trichloroethene	2.3		2.1	ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane	3.4		1.1	ug/m3	1		TO-15	Total/NA

Client Sample ID: SG-6-06252014-DUP ← VW-11 — Lab Sample ID: 320-8185-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.66		0.40	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	27		0.40	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.56		0.40	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-6-06252014-DUP (Continued) ← VW-11 — Lab Sample ID: 320-8185-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Difluoroethane	1.3		0.40		ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.6		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	190		2.7		ug/m3	1		TO-15	Total/NA
Trichloroethene	3.0		2.1		ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane	3.5		1.1		ug/m3	1		TO-15	Total/NA

Client Sample ID: AMBIENT-06252014 — Lab Sample ID: 320-8185-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Difluoroethane	0.72		0.40		ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
1,1-Difluoroethane	2.0		1.1		ug/m3	1		TO-15	Total/NA

Client Sample ID: SG-3-06252014 ← VW-12 — Lab Sample ID: 320-8185-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.43		0.40		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	19		0.40		ppb v/v	1		TO-15	Total/NA
1,1-Difluoroethane	0.53		0.40		ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.6		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	130		2.7		ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane	1.4		1.1		ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-1-06252014 ← VW-08

Lab Sample ID: 320-8185-1
Matrix: Air

Date Collected: 06/25/14 14:55
Date Received: 06/27/14 09:30
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.84		0.40	ppb v/v			07/10/14 00:26	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/10/14 00:26	1
Tetrachloroethene	39		0.40	ppb v/v			07/10/14 00:26	1
Trichloroethene	0.70		0.40	ppb v/v			07/10/14 00:26	1
Vinyl chloride	ND		0.40	ppb v/v			07/10/14 00:26	1
1,1-Difluoroethane	4.7		0.40	ppb v/v			07/10/14 00:26	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3.3		1.6	ug/m3			07/10/14 00:26	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/10/14 00:26	1
Tetrachloroethene	270		2.7	ug/m3			07/10/14 00:26	1
Trichloroethene	3.8		2.1	ug/m3			07/10/14 00:26	1
Vinyl chloride	ND		1.0	ug/m3			07/10/14 00:26	1
1,1-Difluoroethane	13		1.1	ug/m3			07/10/14 00:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/10/14 00:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*07/10/14 00:26*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/10/14 00:26*	*1*

Client Sample ID: SG-2-06252014 ← VW-09

Lab Sample ID: 320-8185-2
Matrix: Air

Date Collected: 06/25/14 14:38
Date Received: 06/27/14 09:30
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	0.88		0.40	ppb v/v			07/10/14 01:27	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/10/14 01:27	1
Tetrachloroethene	45		0.40	ppb v/v			07/10/14 01:27	1
Trichloroethene	0.75		0.40	ppb v/v			07/10/14 01:27	1
Vinyl chloride	ND		0.40	ppb v/v			07/10/14 01:27	1
1,1-Difluoroethane	4.6		0.40	ppb v/v			07/10/14 01:27	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	3.5		1.6	ug/m3			07/10/14 01:27	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/10/14 01:27	1
Tetrachloroethene	300		2.7	ug/m3			07/10/14 01:27	1
Trichloroethene	4.1		2.1	ug/m3			07/10/14 01:27	1
Vinyl chloride	ND		1.0	ug/m3			07/10/14 01:27	1
1,1-Difluoroethane	12		1.1	ug/m3			07/10/14 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*07/10/14 01:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 130*		*07/10/14 01:27*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/10/14 01:27*	*1*

Client Sample Results

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-5-06252014 ← VW-10

Lab Sample ID: 320-8185-3
Matrix: Air

Date Collected: 06/25/14 15:12
Date Received: 06/27/14 09:30
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		4.4	ppb v/v			07/10/14 02:24	11
trans-1,2-Dichloroethene	ND		4.4	ppb v/v			07/10/14 02:24	11
Tetrachloroethene	**57**		4.4	ppb v/v			07/10/14 02:24	11
Trichloroethene	ND		4.4	ppb v/v			07/10/14 02:24	11
Vinyl chloride	ND		4.4	ppb v/v			07/10/14 02:24	11
1,1-Difluoroethane	ND		4.4	ppb v/v			07/10/14 02:24	11

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		17	ug/m3			07/10/14 02:24	11
trans-1,2-Dichloroethene	ND		17	ug/m3			07/10/14 02:24	11
Tetrachloroethene	**390**		30	ug/m3			07/10/14 02:24	11
Trichloroethene	ND		24	ug/m3			07/10/14 02:24	11
Vinyl chloride	ND		11	ug/m3			07/10/14 02:24	11
1,1-Difluoroethane	ND		12	ug/m3			07/10/14 02:24	11

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*07/10/14 02:24*	*11*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*07/10/14 02:24*	*11*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/10/14 02:24*	*11*

Client Sample ID: SG-6-06252014 ← VW-11

Lab Sample ID: 320-8185-4
Matrix: Air

Date Collected: 06/25/14 15:32
Date Received: 06/27/14 09:30
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.50**		0.40	ppb v/v			07/10/14 03:33	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/10/14 03:33	1
Tetrachloroethene	**22**		0.40	ppb v/v			07/10/14 03:33	1
Trichloroethene	**0.42**		0.40	ppb v/v			07/10/14 03:33	1
Vinyl chloride	ND		0.40	ppb v/v			07/10/14 03:33	1
1,1-Difluoroethane	**1.3**		0.40	ppb v/v			07/10/14 03:33	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.0**		1.6	ug/m3			07/10/14 03:33	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/10/14 03:33	1
Tetrachloroethene	**150**		2.7	ug/m3			07/10/14 03:33	1
Trichloroethene	**2.3**		2.1	ug/m3			07/10/14 03:33	1
Vinyl chloride	ND		1.0	ug/m3			07/10/14 03:33	1
1,1-Difluoroethane	**3.4**		1.1	ug/m3			07/10/14 03:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/10/14 03:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*07/10/14 03:33*	*1*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/10/14 03:33*	*1*

Client Sample Results

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-6-06252014-DUP ← VW-11

Lab Sample ID: 320-8185-5
Matrix: Air

Date Collected: 06/25/14 15:39
Date Received: 06/27/14 09:30
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.66**		0.40	ppb v/v			07/10/14 07:41	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/10/14 07:41	1
Tetrachloroethene	**27**		0.40	ppb v/v			07/10/14 07:41	1
Trichloroethene	**0.56**		0.40	ppb v/v			07/10/14 07:41	1
Vinyl chloride	ND		0.40	ppb v/v			07/10/14 07:41	1
1,1-Difluoroethane	**1.3**		0.40	ppb v/v			07/10/14 07:41	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.6**		1.6	ug/m3			07/10/14 07:41	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/10/14 07:41	1
Tetrachloroethene	**190**		2.7	ug/m3			07/10/14 07:41	1
Trichloroethene	**3.0**		2.1	ug/m3			07/10/14 07:41	1
Vinyl chloride	ND		1.0	ug/m3			07/10/14 07:41	1
1,1-Difluoroethane	**3.5**		1.1	ug/m3			07/10/14 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/10/14 07:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*07/10/14 07:41*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/10/14 07:41*	*1*

Client Sample ID: AMBIENT-06252014

Lab Sample ID: 320-8185-6
Matrix: Air

Date Collected: 06/25/14 15:58
Date Received: 06/27/14 09:30
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			07/10/14 08:39	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/10/14 08:39	1
Tetrachloroethene	ND		0.40	ppb v/v			07/10/14 08:39	1
Trichloroethene	ND		0.40	ppb v/v			07/10/14 08:39	1
Vinyl chloride	ND		0.40	ppb v/v			07/10/14 08:39	1
1,1-Difluoroethane	**0.72**		0.40	ppb v/v			07/10/14 08:39	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			07/10/14 08:39	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/10/14 08:39	1
Tetrachloroethene	ND		2.7	ug/m3			07/10/14 08:39	1
Trichloroethene	ND		2.1	ug/m3			07/10/14 08:39	1
Vinyl chloride	ND		1.0	ug/m3			07/10/14 08:39	1
1,1-Difluoroethane	**2.0**		1.1	ug/m3			07/10/14 08:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/10/14 08:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*07/10/14 08:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/10/14 08:39*	*1*

Client Sample Results

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-3-06252014 ← VW-12

Lab Sample ID: 320-8185-8

Date Collected: 06/25/14 16:27

Matrix: Air

Date Received: 06/27/14 09:30

Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**0.43**		0.40		ppb v/v			07/10/14 09:39	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			07/10/14 09:39	1
Tetrachloroethene	**19**		0.40		ppb v/v			07/10/14 09:39	1
Trichloroethene	ND		0.40		ppb v/v			07/10/14 09:39	1
Vinyl chloride	ND		0.40		ppb v/v			07/10/14 09:39	1
1,1-Difluoroethane	**0.53**		0.40		ppb v/v			07/10/14 09:39	1

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1.7**		1.6		ug/m3			07/10/14 09:39	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			07/10/14 09:39	1
Tetrachloroethene	**130**		2.7		ug/m3			07/10/14 09:39	1
Trichloroethene	ND		2.1		ug/m3			07/10/14 09:39	1
Vinyl chloride	ND		1.0		ug/m3			07/10/14 09:39	1
1,1-Difluoroethane	**1.4**		1.1		ug/m3			07/10/14 09:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*		*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*			*07/10/14 09:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*			*07/10/14 09:39*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*			*07/10/14 09:39*	*1*

Surrogate Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

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

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
320-8185-1	SG-1-06252014	97	92	102
320-8185-2	SG-2-06252014	95	90	102
320-8185-3	SG-5-06252014	95	89	102
320-8185-4	SG-6-06252014	98	88	105
320-8185-5	SG-6-06252014-DUP	96	88	103
320-8185-6	AMBIENT-06252014	96	86	100
320-8185-8	SG-3-06252014	99	87	101
LCS 320-46822/5	Lab Control Sample	100	103	101
LCS 320-46822/6	Lab Control Sample	90	93	97
MB 320-46822/8	Method Blank	95	92	114

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 320-46822/8
Matrix: Air
Analysis Batch: 46822

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			07/09/14 20:30	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			07/09/14 20:30	1
Tetrachloroethene	ND		0.40		ppb v/v			07/09/14 20:30	1
Trichloroethene	ND		0.40		ppb v/v			07/09/14 20:30	1
Vinyl chloride	ND		0.40		ppb v/v			07/09/14 20:30	1
1,1-Difluoroethane	ND		0.40		ppb v/v			07/09/14 20:30	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			07/09/14 20:30	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			07/09/14 20:30	1
Tetrachloroethene	ND		2.7		ug/m3			07/09/14 20:30	1
Trichloroethene	ND		2.1		ug/m3			07/09/14 20:30	1
Vinyl chloride	ND		1.0		ug/m3			07/09/14 20:30	1
1,1-Difluoroethane	ND		1.1		ug/m3			07/09/14 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*07/09/14 20:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*07/09/14 20:30*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*07/09/14 20:30*	*1*

Lab Sample ID: LCS 320-46822/5
Matrix: Air
Analysis Batch: 46822

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.0	17.5		ppb v/v		88	70 - 130		
trans-1,2-Dichloroethene			20.0	17.7		ppb v/v		88	70 - 130		
Tetrachloroethene			20.0	20.6		ppb v/v		103	70 - 130		
Trichloroethene			20.0	18.2		ppb v/v		91	70 - 130		
Vinyl chloride			20.0	17.4		ppb v/v		87	70 - 130		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			79	69.4		ug/m3		88	70 - 130		
trans-1,2-Dichloroethene			79	70.1		ug/m3		88	70 - 130		
Tetrachloroethene			140	140		ug/m3		103	70 - 130		
Trichloroethene			110	97.6		ug/m3		91	70 - 130		
Vinyl chloride			51	44.4		ug/m3		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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

Lab Sample ID: LCS 320-46822/6
Matrix: Air
Analysis Batch: 46822

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Difluoroethane			20.0	18.8		ppb v/v		94	70 - 130		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1-Difluoroethane			54	50.8		ug/m3		94	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

QC Association Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Air - GC/MS VOA

Analysis Batch: 46822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-8185-1	SG-1-06252014	Total/NA	Air	TO-15	
320-8185-2	SG-2-06252014	Total/NA	Air	TO-15	
320-8185-3	SG-5-06252014	Total/NA	Air	TO-15	
320-8185-4	SG-6-06252014	Total/NA	Air	TO-15	
320-8185-5	SG-6-06252014-DUP	Total/NA	Air	TO-15	
320-8185-6	AMBIENT-06252014	Total/NA	Air	TO-15	
320-8185-8	SG-3-06252014	Total/NA	Air	TO-15	
LCS 320-46822/5	Lab Control Sample	Total/NA	Air	TO-15	
LCS 320-46822/6	Lab Control Sample	Total/NA	Air	TO-15	
MB 320-46822/8	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-1-06252014 ← VW-08

Lab Sample ID: 320-8185-1
Date Collected: 06/25/14 14:55
Matrix: Air
Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	539 mL	250 mL	46822	07/10/14 00:26	TAD	TAL SAC

Client Sample ID: SG-2-06252014 ← VW-09

Lab Sample ID: 320-8185-2
Date Collected: 06/25/14 14:38
Matrix: Air
Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	538 mL	250 mL	46822	07/10/14 01:27	TAD	TAL SAC

Client Sample ID: SG-5-06252014 ← VW-10

Lab Sample ID: 320-8185-3
Date Collected: 06/25/14 15:12
Matrix: Air
Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		11	50 mL	250 mL	46822	07/10/14 02:24	TAD	TAL SAC

Client Sample ID: SG-6-06252014 ← VW-11

Lab Sample ID: 320-8185-4
Date Collected: 06/25/14 15:32
Matrix: Air
Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	558 mL	250 mL	46822	07/10/14 03:33	TAD	TAL SAC

Client Sample ID: SG-6-06252014-DUP ← VW-11

Lab Sample ID: 320-8185-5
Date Collected: 06/25/14 15:39
Matrix: Air
Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	542 mL	250 mL	46822	07/10/14 07:41	TAD	TAL SAC

Client Sample ID: AMBIENT-06252014

Lab Sample ID: 320-8185-6
Date Collected: 06/25/14 15:58
Matrix: Air
Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	506 mL	250 mL	46822	07/10/14 08:39	TAD	TAL SAC

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Client Sample ID: SG-3-06252014 ← VW-12

Lab Sample ID: 320-8185-8

Date Collected: 06/25/14 16:27

Matrix: Air

Date Received: 06/27/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	566 mL	250 mL	46822	07/10/14 09:39	TAD	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0708	08-11-15

Method Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8185-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-8185-1	SG-1-06252014 VW-08	Air	06/25/14 14:55	06/27/14 09:30
320-8185-2	SG-2-06252014 VW-09	Air	06/25/14 14:38	06/27/14 09:30
320-8185-3	SG-5-06252014 VW-10	Air	06/25/14 15:12	06/27/14 09:30
320-8185-4	SG-6-06252014 VW-11	Air	06/25/14 15:32	06/27/14 09:30
320-8185-5	SG-6-06252014-DUP	Air	06/25/14 15:39	06/27/14 09:30
320-8185-6	AMBIENT-06252014	Air	06/25/14 15:58	06/27/14 09:30
320-8185-8	SG-3-06252014 VW-12	Air	06/25/14 16:27	06/27/14 09:30

TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
phone 916.374.4378 fax 916 372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Robert Bonura	Samples Collected By: Erin Lansey	COC No:
Company Name: URS corp.	Phone:		1 of 1 COCs
Address: 3333 Wetmore Rd	Email:		
City/State/Zip Tucson, Az. 85705			For Lab Use Only:
Phone: 520 887 1800	Site Contact:		Walk-in Client
FAX:	TA Contact:		Lab Sampling.
Project Name: Park/Enclid	Anaylsis Turnaround Time		
Site/Location:	Standard (Specific): X		Job / SDG No .
P O #	Rush (Specify)		(See below for Add'l Items)

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 3400-	TO-15 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
* SG-1-06252014	6/25/14	1447	1455	25"	2"	10611	0635	X														
SG-2-06252014	6/25/14	1433	1438	26"	3"	10087	1227	X														
** SG-5-06252014	6/25/14	1505	1512	28"	3"	10694	0927	X														
SG-6-06252014	6/25/14	1526	1532	28"	4"	10957	1941	X														
SG-6-06252014-Dup	6/25/14	1532	1539	28"	3"	10900	0863	X														
Ambient-06252014	6/25/14	1550	1558	27"	1"	09575	1109	X														
SG-4-06252014	6/25/14	1555	1603	28"	4"	10937	1119	X														
SG-3-06252014	6/25/14	1620	1627	28"	3"	10245	0647	X														
Erin Lansey	EL 6/25/14																					

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

Temperature (Fahrenheit)			
Start	Interior	Ambient	
Stop			

320-8185 Chain of Custody

Special Instructions/QC Requirements & Comments:
Tentively Identified Compound = 1,1-DFA

Samples Shipped by:	Date / Time: 6-26-14 1346	Samples Received by:
Samples Relinquished by:	Date / Time: 6-26-14 1500	Received by: Stephanie Edwards 6/27/14 9:30
Relinquished by:	Date / Time:	Received by:

Lab Use Only: Shipper Name: Opened by: Condition:

Form No: CA-C-WI-003, Rev. 1, dated 05/10/2013

* Canister ID wrong on COC @ 6/27/14 34000365

** Canister ID wrong on COC @ 6/27/14 34000977

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 1

Client/Project:		VFR ID:		
Canister Serial #:	34000365	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.57	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	24.97	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								7/9/2014	MS7		
Canister DF =	2.16	X	Load DF =	0.4638219	X	Bag DF =	1	=		FINAL DF	1.001005415
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	539		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 2

Client/Project:		VFR ID:		
Canister Serial #:	34001227	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.41	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	24.59	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.16			

CANISTER REPRESSURIZATION					
Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.16		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							7/9/2014	MS7			
Canister DF =	2.16	X	Load DF =	0.464684	X	Bag DF =	1	=	FINAL DF 1.001453105		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	538		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.16	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 3

Client/Project:		VFR ID:		
Canister Serial #:	34000972	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.81	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	25.92	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.19			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.19		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							7/9/2014	MS7			
Canister DF =	2.19	X	Load DF =	5	X	Bag DF =	1	=	FINAL DF 10.97375106		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	50		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.19	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.19	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 4

Client/Project:		VFR ID:		
Canister Serial #:	34001941	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.23	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	25.09	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.23			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.23		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Canister DF =	X	Load DF = / LVf (mLs) / LVi (mLs)	X	Bag DF = / BVf (mL) / Bvi (mLs)	Date / Instr. / File #	=	FINAL DF
2.23	X	0.4480287 / 250 / 558	X	1	7/9/2014 / MS7 /	=	1.00098303
2.23	X	#DIV/0!	X	1	/ /	=	#DIV/0!
2.23	X	#DIV/0!	X	1	/ /	=	#DIV/0!

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 5

Client/Project:		VFR ID:		
Canister Serial #:	34000863	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.52	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	24.99	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.17			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.17		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							7/9/2014	MS7			
Canister DF =	2.17	X	Load DF =	0.4612546	X	Bag DF =	1	=	FINAL DF 1.000586178		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	542		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.17	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.17	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 6

Client/Project:		VFR ID:		
Canister Serial #:	34001109	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	12.46	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	25.23	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.02			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.02		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

								Date	Instr.	File #	
								7/9/2014	MS7		
Canister DF =	2.02	X	Load DF =	0.4940711	X	Bag DF =	1	=		FINAL DF	1.000434592
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	506		Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.02	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					
								Date	Instr.	File #	
Canister DF =	2.02	X	Load DF =	#DIV/0!	X	Bag DF =	1	=		FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8185
Sample # 8

Client/Project:		VFR ID:		
Canister Serial #:	34000647	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.32	07/07/14	EP for GG
FINAL PRESSURE (PSIA)	25.64	07/07/14	EP for GG
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.27			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
			2.27		#DIV/0!
			#DIV/0!		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

Canister DF		Load DF		Bag DF		Date	Instr.	File #	FINAL DF
2.27	X	0.4416961	X	1	=	7/9/2014	MS7		1.0004495
		LVf (mLs) 250		BVf (mLs)					
		LVi (mLs) 566		Bvi (mLs)					

Canister DF		Load DF		Bag DF		Date	Instr.	File #	FINAL DF
2.27	X	#DIV/0!	X	1	=				#DIV/0!
		LVf (mLs)		BVf (mLs)					
		LVi (mLs)		Bvi (mLs)					

Canister DF		Load DF		Bag DF		Date	Instr.	File #	FINAL DF
2.27	X	#DIV/0!	X	1	=				#DIV/0!
		LVf (mLs)		BVf (mLs)					
		LVi (mLs)		Bvi (mLs)					

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 320-8185-1

Login Number: 8185

List Number: 1

Creator: Nelson, Kym D

List Source: TestAmerica Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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	Canister IDs wrong 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	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

320-7258 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Canister QC Certification

Certification Type: TO-15 SCAN

Date Cleaned/Batch ID: 4/29/14 320-7258

Date of QC: 4/30/14

Data File Number: MSS 043004

CANISTER ID NUMBERS

39001119	34000865	
1708	0972	
0863	0624	
1109	1081	
0647		
1227		
1941		
1079*		

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: _____ Date: 5/1/14

2nd level Reviewed By: _____ Date: 5/2/14

Q:\FORMS\QA-814 CAN QC CERT 20130729.DOC
QA-814

ERS 7/29/2013

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

Lab Name: TestAmerica Sacramento | Job No.: 320-7258-1

SDG No.:

Client Sample ID: 34001079 | Lab Sample ID: 320-7258-8

Matrix: Air | Lab File ID: MS5043004.D

Analysis Method: TO-15 | Date Collected: 04/29/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/30/2014 18:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41495 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	2.9	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	0.63	J	0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento | Job No.: 320-7258-1

SDG No.:

Client Sample ID: 34001079 | Lab Sample ID: 320-7258-8

Matrix: Air | Lab File ID: MS5043004.D

Analysis Method: TO-15 | Date Collected: 04/29/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 04/30/2014 18:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41495 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND		2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND		0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	0.22	J	0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND		2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-7258-1

SDG No.:

Client Sample ID: 34001079 Lab Sample ID: 320-7258-8

Matrix: Air Lab File ID: MS5043004.D

Analysis Method: TO-15 Date Collected: 04/29/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 04/30/2014 18:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 41495 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\SACCHROM\ChromData\ATMS5\20140430-12195.b\MS5043004.D
Lims ID: 320-7258-A-8 Lab Sample ID: 320-7258-8
Client ID: 34001079
Sample Type: Client
Inject. Date: 30-Apr-2014 18:16:30 ALS Bottle#: 5 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 320-7258-8
Misc. Info.: 500mL; 34001079
Operator ID: AO Instrument ID: ATMS5

Method: \\SACCHROM\ChromData\ATMS5\20140430-12195.b\TO15_ATMS5.m
Limit Group: MSA - TO15 - ICAL
Last Update: 01-May-2014 11:48:17 Calib Date: 30-Apr-2014 12:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SACCHROM\ChromData\ATMS5\20140430-12195.b\MS5043002.D

Column 1 : Det: MS SCAN
Process Host: XAWRK016

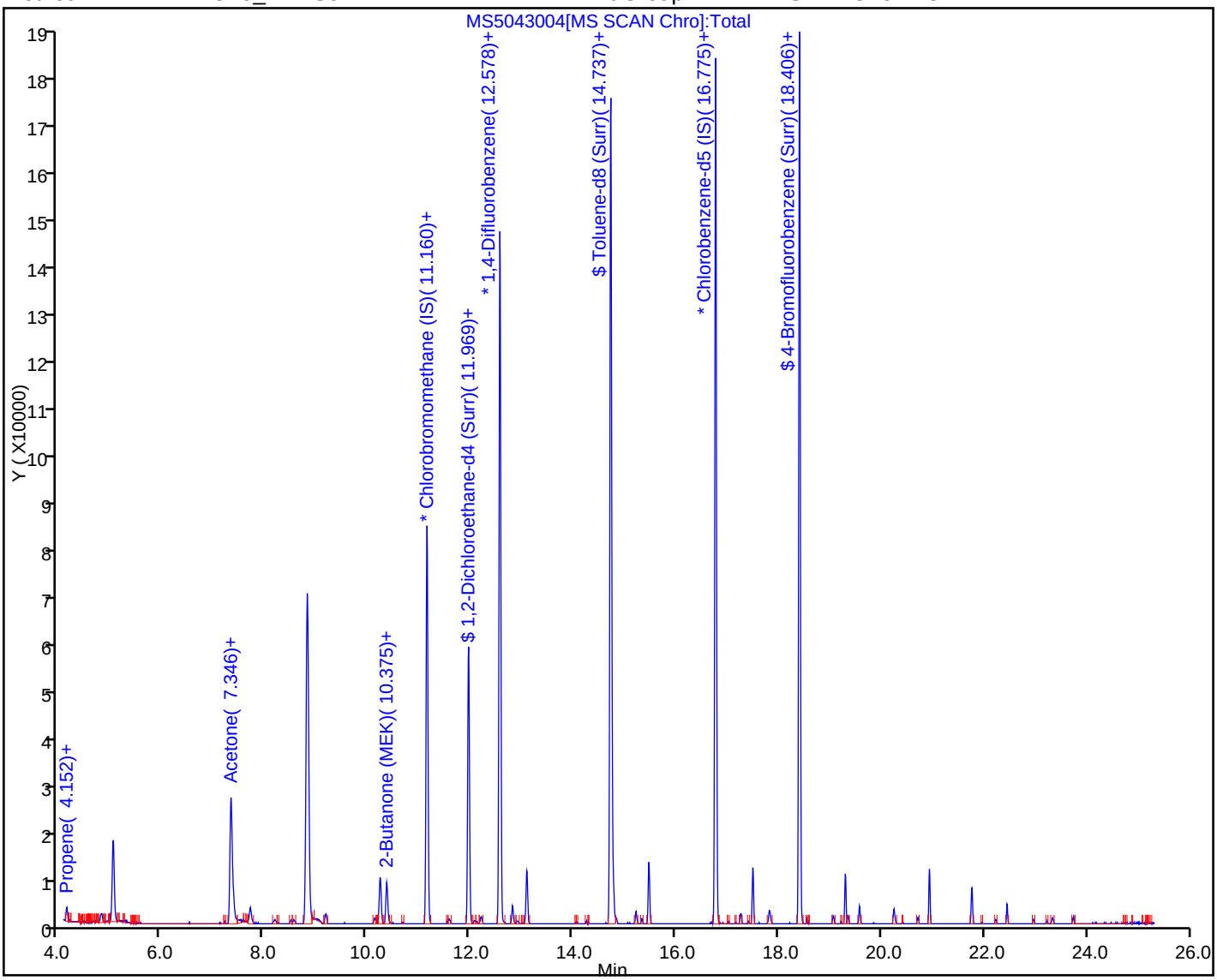
First Level Reviewer: shardaa Date: 01-May-2014 11:48:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	11.160	11.160	0.000	92	39057	3.88	
* 2 1,4-Difluorobenzene	114	12.578	12.584	-0.006	93	160907	4.00	
* 3 Chlorobenzene-d5 (IS)	117	16.775	16.775	0.000	79	138428	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	11.969	11.969	0.000	0	48232	3.82	
$ 5 Toluene-d8 (Surr)	100	14.737	14.737	0.000	92	102499	3.96	
$ 6 4-Bromofluorobenzene (Surr	95	18.406	18.412	-0.006	86	90213	3.86	
11 Propene	41	4.146	4.158	-0.012	88	1929	0.2220	
33 Acetone	43	7.346	7.352	-0.006	98	54576	2.90	
49 2-Butanone (MEK)	72	10.382	10.388	-0.006	90	3915	0.6284	

Report Date: 01-May-2014 11:48:17 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140430-12195.b\MS5043004.D				
Injection Date:	30-Apr-2014 18:16:30	Instrument ID:	ATMS5		
Lims ID:	320-7258-A-8	Lab Sample ID:	320-7258-8		
Client ID:	34001079				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		

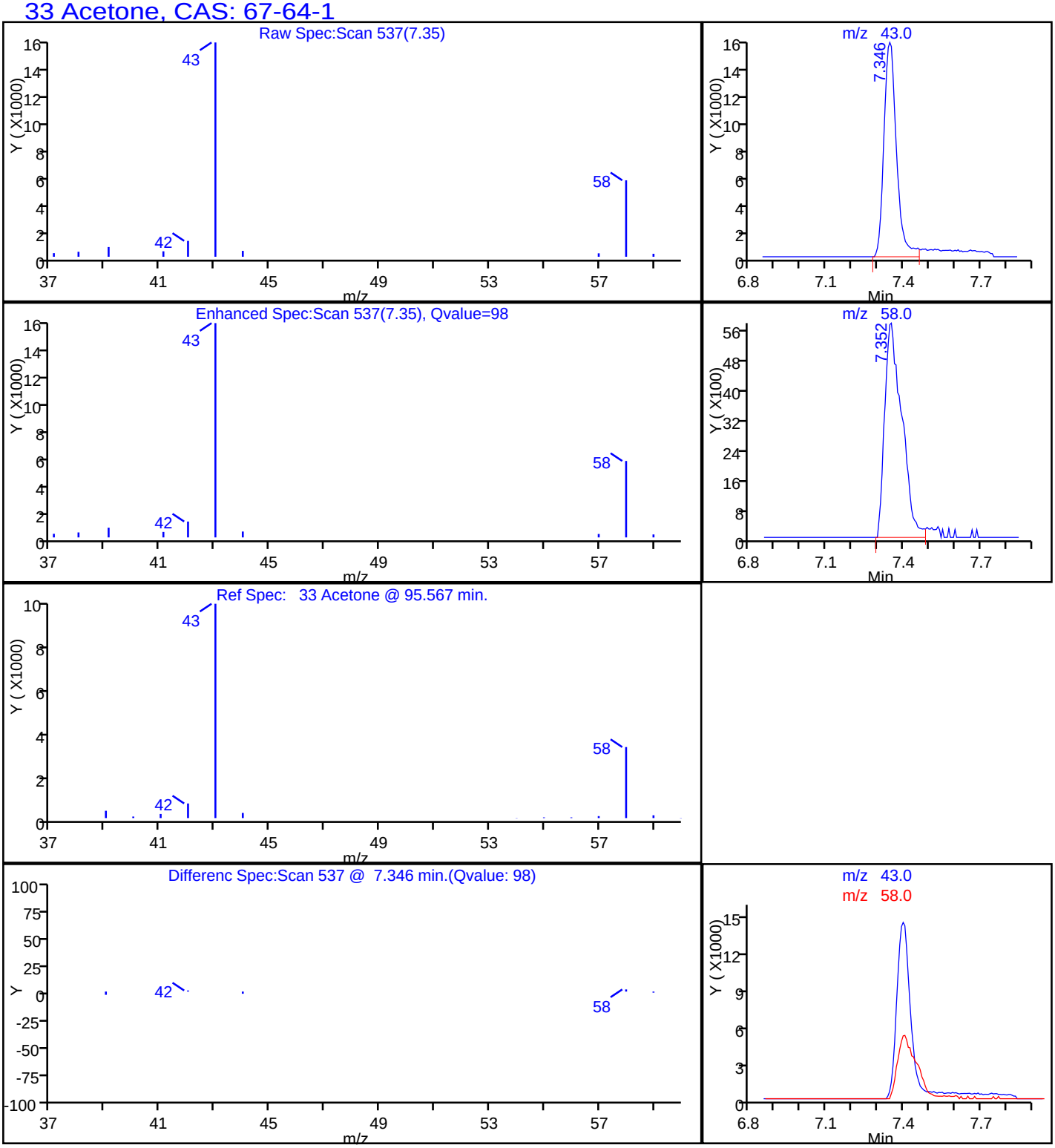


Report Date: 01-May-2014 11:48:17 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140430-12195.b\MS5043004.D				
Injection Date:	30-Apr-2014 18:16:30	Instrument ID:	ATMS5		
Lims ID:	320-7258-A-8	Lab Sample ID:	320-7258-8		
Client ID:	34001079				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

33 Acetone, CAS: 67-64-1

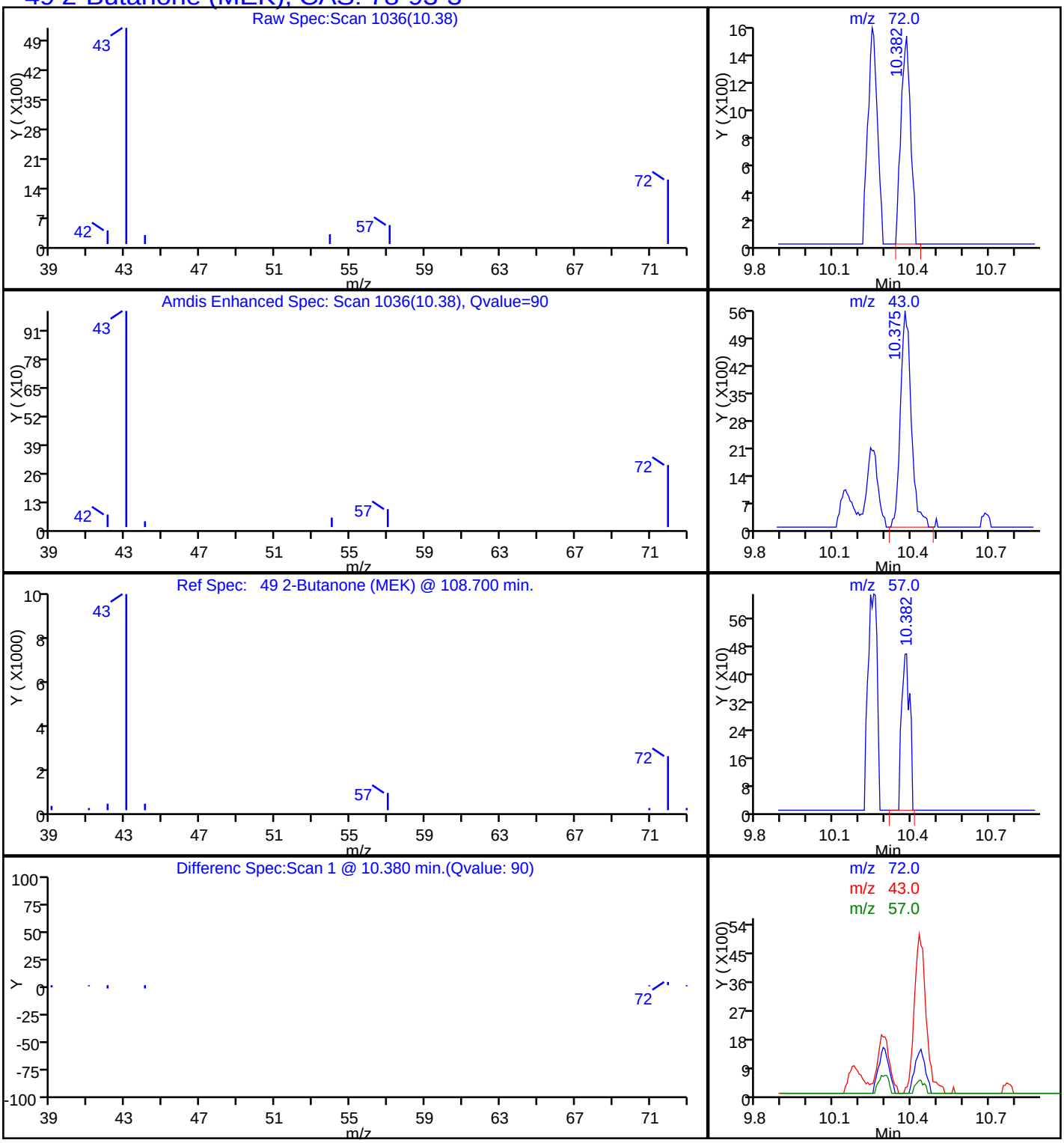


Report Date: 01-May-2014 11:48:17 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140430-12195.b\MS5043004.D				
Injection Date:	30-Apr-2014 18:16:30	Instrument ID:	ATMS5		
Lims ID:	320-7258-A-8	Lab Sample ID:	320-7258-8		
Client ID:	34001079				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

49 2-Butanone (MEK), CAS: 78-93-3

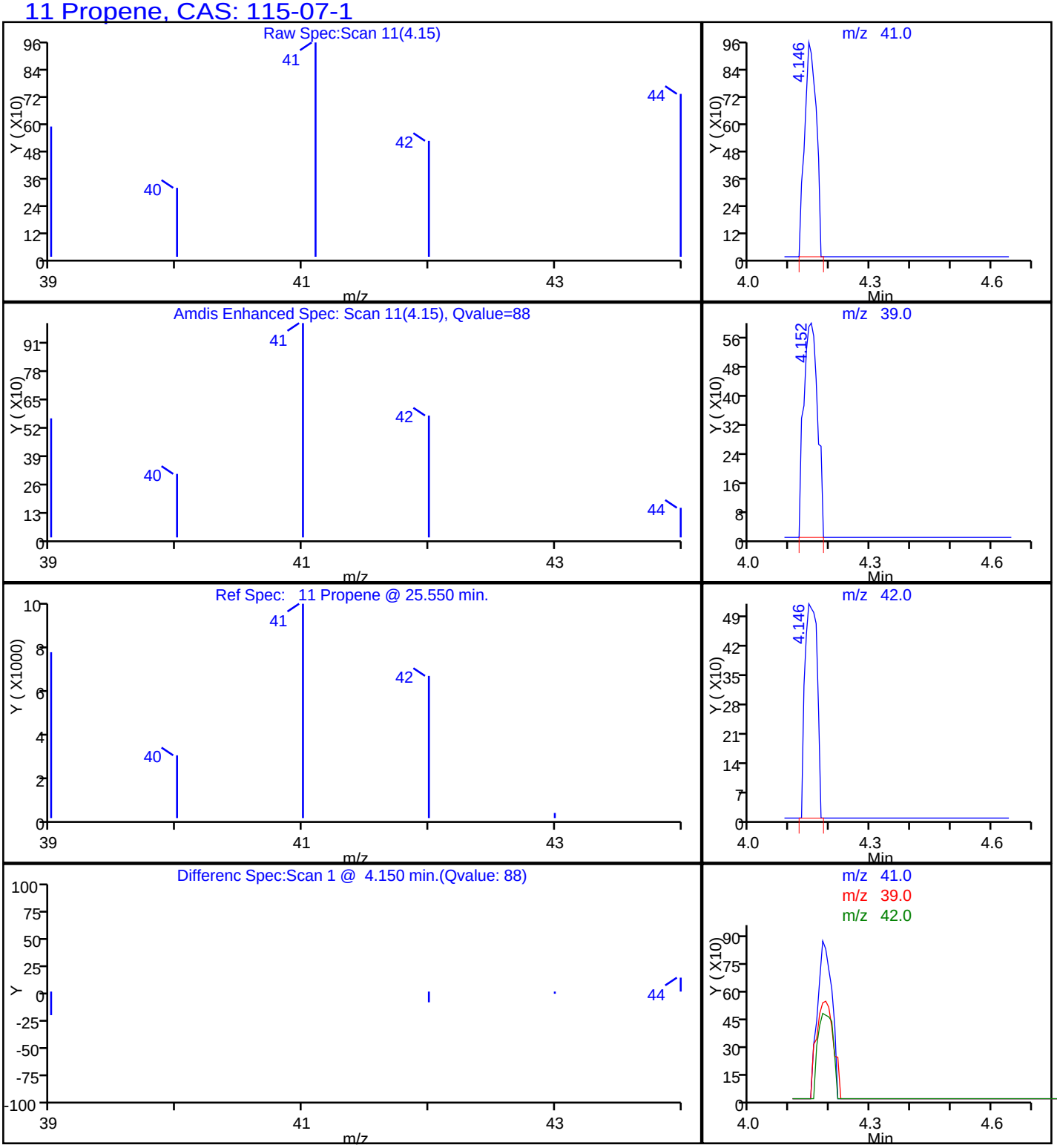


Report Date: 01-May-2014 11:48:17 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS5\20140430-12195.b\MS5043004.D				
Injection Date:	30-Apr-2014 18:16:30	Instrument ID:	ATMS5		
Lims ID:	320-7258-A-8	Lab Sample ID:	320-7258-8		
Client ID:	34001079				
Operator ID:	AO	ALS Bottle#:	5	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS5	Limit Group:	MSA - TO15 - ICAL		
Column:		Detector	MS SCAN		

11 Propene, CAS: 115-07-1



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Sacramento
880 Riverside Parkway
West Sacramento, CA 95605
Tel: (916)373-5600

TestAmerica Job ID: 320-8396-1
Client Project/Site: Park-Euclid WQARF Site

For:
URS Corporation
8181 East Tufts Ave.
Denver, Colorado 80237

Attn: Mr. Robert Boudra

Authorized for release by:
7/22/2014 9:22:11 AM

Laura Turpen, Project Manager I
(916)373-5600
laura.turpen@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 13
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Field Data Sheets 19
Receipt Checklists 21
Clean Canister Certification 22
Pre-Ship Certification 22
Clean Canister Data 23

Glossary

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

Job ID: 320-8396-1

Laboratory: TestAmerica Sacramento

Narrative

Receipt
The samples were received on 7/11/2014 9:15 AM; the samples arrived in good condition.

Air - GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

Detection Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Client Sample ID: SG-4-070914 ← VW-13 — Lab Sample ID: 320-8396-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		0.40		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	59		0.40		ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.1		0.40		ppb v/v	1		TO-15	Total/NA
1,1-Difluoroethane - DL	390		3.5		ppb v/v	8.73		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.9		1.6		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	400		2.7		ug/m3	1		TO-15	Total/NA
Trichloroethene	5.9		2.1		ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane - DL	1100		9.4		ug/m3	8.73		TO-15	Total/NA

Client Sample ID: EQ BLANK-070914 — Lab Sample ID: 320-8396-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6.7		0.40		ppb v/v	1		TO-15	Total/NA
1,1-Difluoroethane - DL	140		1.8		ppb v/v	4.61		TO-15	Total/NA

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	45		2.7		ug/m3	1		TO-15	Total/NA
1,1-Difluoroethane - DL	390		5.0		ug/m3	4.61		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Client Sample ID: SG-4-070914 ← VW-13

Lab Sample ID: 320-8396-1
Date Collected: 07/09/14 12:50
Matrix: Air
Date Received: 07/11/14 09:15
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**1.7**		0.40	ppb v/v			07/19/14 06:13	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/19/14 06:13	1
Tetrachloroethene	**59**		0.40	ppb v/v			07/19/14 06:13	1
Trichloroethene	**1.1**		0.40	ppb v/v			07/19/14 06:13	1
Vinyl chloride	ND		0.40	ppb v/v			07/19/14 06:13	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**6.9**		1.6	ug/m3			07/19/14 06:13	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/19/14 06:13	1
Tetrachloroethene	**400**		2.7	ug/m3			07/19/14 06:13	1
Trichloroethene	**5.9**		2.1	ug/m3			07/19/14 06:13	1
Vinyl chloride	ND		1.0	ug/m3			07/19/14 06:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/19/14 06:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*07/19/14 06:13*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/19/14 06:13*	*1*

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Difluoroethane	**390**		3.5	ppb v/v			07/20/14 21:54	8.73

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Difluoroethane	**1100**		9.4	ug/m3			07/20/14 21:54	8.73

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/20/14 21:54*	*8.73*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*		*07/20/14 21:54*	*8.73*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/14 21:54*	*8.73*

Client Sample ID: EQ BLANK-070914

Lab Sample ID: 320-8396-2
Date Collected: 07/09/14 13:01
Matrix: Air
Date Received: 07/11/14 09:15
Sample Container: Summa Canister 1L

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			07/19/14 07:07	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/19/14 07:07	1
Tetrachloroethene	**6.7**		0.40	ppb v/v			07/19/14 07:07	1
Trichloroethene	ND		0.40	ppb v/v			07/19/14 07:07	1
Vinyl chloride	ND		0.40	ppb v/v			07/19/14 07:07	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			07/19/14 07:07	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/19/14 07:07	1
Tetrachloroethene	**45**		2.7	ug/m3			07/19/14 07:07	1
Trichloroethene	ND		2.1	ug/m3			07/19/14 07:07	1
Vinyl chloride	ND		1.0	ug/m3			07/19/14 07:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/19/14 07:07*	*1*

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Client Sample ID: EQ BLANK-070914

Lab Sample ID: 320-8396-2

Date Collected: 07/09/14 13:01
Matrix: Air
Date Received: 07/11/14 09:15
Sample Container: Summa Canister 1L

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		70 - 130		07/19/14 07:07	1
Toluene-d8 (Surr)	100		70 - 130		07/19/14 07:07	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Difluoroethane	140		1.8	ppb v/v			07/20/14 22:44	4.61

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Difluoroethane	390		5.0	ug/m3			07/20/14 22:44	4.61

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		07/20/14 22:44	4.61
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		07/20/14 22:44	4.61
Toluene-d8 (Surr)	99		70 - 130		07/20/14 22:44	4.61

Surrogate Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

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

Matrix: Air **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
320-8396-1	SG-4-070914	99	96	97
320-8396-1 - DL	SG-4-070914	100	94	100
320-8396-2	EQ BLANK-070914	98	92	100
320-8396-2 - DL	EQ BLANK-070914	99	93	99
LCS 320-47678/5	Lab Control Sample	105	101	104
LCS 320-47678/6	Lab Control Sample	100	95	103
LCS 320-47700/3	Lab Control Sample	107	100	104
LCS 320-47700/5	Lab Control Sample	99	94	103
LCSD 320-47700/19	Lab Control Sample Dup	107	99	103
LCSD 320-47700/20	Lab Control Sample Dup	101	93	102
MB 320-47678/8	Method Blank	109	97	98
MB 320-47700/7	Method Blank	111	92	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

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

Lab Sample ID: MB 320-47678/8
Matrix: Air
Analysis Batch: 47678

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

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40		ppb v/v			07/19/14 00:06	1
trans-1,2-Dichloroethene	ND		0.40		ppb v/v			07/19/14 00:06	1
Tetrachloroethene	ND		0.40		ppb v/v			07/19/14 00:06	1
Trichloroethene	ND		0.40		ppb v/v			07/19/14 00:06	1
Vinyl chloride	ND		0.40		ppb v/v			07/19/14 00:06	1
1,1-Difluoroethane	ND		0.40		ppb v/v			07/19/14 00:06	1

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6		ug/m3			07/19/14 00:06	1
trans-1,2-Dichloroethene	ND		1.6		ug/m3			07/19/14 00:06	1
Tetrachloroethene	ND		2.7		ug/m3			07/19/14 00:06	1
Trichloroethene	ND		2.1		ug/m3			07/19/14 00:06	1
Vinyl chloride	ND		1.0		ug/m3			07/19/14 00:06	1
1,1-Difluoroethane	ND		1.1		ug/m3			07/19/14 00:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*07/19/14 00:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/19/14 00:06*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/19/14 00:06*	*1*

Lab Sample ID: LCS 320-47678/5
Matrix: Air
Analysis Batch: 47678

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			20.0	18.7		ppb v/v		94	70 - 130		
trans-1,2-Dichloroethene			20.0	18.3		ppb v/v		91	70 - 130		
Tetrachloroethene			20.0	19.1		ppb v/v		95	70 - 130		
Trichloroethene			20.0	18.7		ppb v/v		93	70 - 130		
Vinyl chloride			20.0	19.3		ppb v/v		97	70 - 130		

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
cis-1,2-Dichloroethene			79	74.2		ug/m3		94	70 - 130		
trans-1,2-Dichloroethene			79	72.5		ug/m3		91	70 - 130		
Tetrachloroethene			140	129		ug/m3		95	70 - 130		
Trichloroethene			110	100		ug/m3		93	70 - 130		
Vinyl chloride			51	49.4		ug/m3		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

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

Lab Sample ID: LCS 320-47678/6 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 47678

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Difluoroethane	20.0	16.7		ppb v/v		84	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Difluoroethane	54	45.1		ug/m3		84	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: MB 320-47700/7 — **Client Sample ID: Method Blank**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 47700

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		0.40	ppb v/v			07/20/14 21:04	1
trans-1,2-Dichloroethene	ND		0.40	ppb v/v			07/20/14 21:04	1
Tetrachloroethene	ND		0.40	ppb v/v			07/20/14 21:04	1
Trichloroethene	ND		0.40	ppb v/v			07/20/14 21:04	1
Vinyl chloride	ND		0.40	ppb v/v			07/20/14 21:04	1
1,1-Difluoroethane	ND		0.40	ppb v/v			07/20/14 21:04	1

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.6	ug/m3			07/20/14 21:04	1
trans-1,2-Dichloroethene	ND		1.6	ug/m3			07/20/14 21:04	1
Tetrachloroethene	ND		2.7	ug/m3			07/20/14 21:04	1
Trichloroethene	ND		2.1	ug/m3			07/20/14 21:04	1
Vinyl chloride	ND		1.0	ug/m3			07/20/14 21:04	1
1,1-Difluoroethane	ND		1.1	ug/m3			07/20/14 21:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*07/20/14 21:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*07/20/14 21:04*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/20/14 21:04*	*1*

Lab Sample ID: LCS 320-47700/3 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 47700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	20.0	19.0		ppb v/v		95	70 - 130
trans-1,2-Dichloroethene	20.0	18.3		ppb v/v		92	70 - 130
Tetrachloroethene	20.0	19.6		ppb v/v		98	70 - 130
Trichloroethene	20.0	19.1		ppb v/v		96	70 - 130
Vinyl chloride	20.0	19.9		ppb v/v		99	70 - 130

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

Lab Sample ID: LCS 320-47700/3 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 47700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	79	75.3		ug/m3		95	70 - 130
trans-1,2-Dichloroethene	79	72.7		ug/m3		92	70 - 130
Tetrachloroethene	140	133		ug/m3		98	70 - 130
Trichloroethene	110	103		ug/m3		96	70 - 130
Vinyl chloride	51	50.8		ug/m3		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 320-47700/5 — **Client Sample ID: Lab Control Sample**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 47700

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Difluoroethane	20.0	16.0		ppb v/v		80	70 - 130

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Difluoroethane	54	43.3		ug/m3		80	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 320-47700/19 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Air — **Prep Type: Total/NA**
Analysis Batch: 47700

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	20.0	19.5		ppb v/v		97	70 - 130	2	25
trans-1,2-Dichloroethene	20.0	19.0		ppb v/v		95	70 - 130	3	25
Tetrachloroethene	20.0	19.6		ppb v/v		98	70 - 130	0	25
Trichloroethene	20.0	19.0		ppb v/v		95	70 - 130	1	25
Vinyl chloride	20.0	19.9		ppb v/v		99	70 - 130	0	25

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	79	77.2		ug/m3		97	70 - 130	2	25
trans-1,2-Dichloroethene	79	75.2		ug/m3		95	70 - 130	3	25
Tetrachloroethene	140	133		ug/m3		98	70 - 130	0	25
Trichloroethene	110	102		ug/m3		95	70 - 130	1	25
Vinyl chloride	51	50.8		ug/m3		99	70 - 130	0	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: LCSD 320-47700/19
Matrix: Air
Analysis Batch: 47700

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

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 320-47700/20
Matrix: Air
Analysis Batch: 47700

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Difluoroethane			20.0	16.5		ppb v/v		83	70 - 130	3	25

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Difluoroethane			54	44.6		ug/m3		83	70 - 130	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

QC Association Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Air - GC/MS VOA

Analysis Batch: 47678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-8396-1	SG-4-070914	Total/NA	Air	TO-15	
320-8396-2	EQ BLANK-070914	Total/NA	Air	TO-15	
LCS 320-47678/5	Lab Control Sample	Total/NA	Air	TO-15	
LCS 320-47678/6	Lab Control Sample	Total/NA	Air	TO-15	
MB 320-47678/8	Method Blank	Total/NA	Air	TO-15	

Analysis Batch: 47700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-8396-1 - DL	SG-4-070914	Total/NA	Air	TO-15	
320-8396-2 - DL	EQ BLANK-070914	Total/NA	Air	TO-15	
LCS 320-47700/3	Lab Control Sample	Total/NA	Air	TO-15	
LCS 320-47700/5	Lab Control Sample	Total/NA	Air	TO-15	
LCSD 320-47700/19	Lab Control Sample Dup	Total/NA	Air	TO-15	
LCSD 320-47700/20	Lab Control Sample Dup	Total/NA	Air	TO-15	
MB 320-47700/7	Method Blank	Total/NA	Air	TO-15	

Lab Chronicle

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Client Sample ID: SG-4-070914 ← VW-13

Lab Sample ID: 320-8396-1

Date Collected: 07/09/14 12:50
Matrix: Air
Date Received: 07/11/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	737 mL	250 mL	47678	07/19/14 06:13	TAD	TAL SAC
Total/NA	Analysis	TO-15	DL	8.73	250 mL	250 mL	47700	07/20/14 21:54	TAD	TAL SAC

Client Sample ID: EQ BLANK-070914

Lab Sample ID: 320-8396-2

Date Collected: 07/09/14 13:01
Matrix: Air
Date Received: 07/11/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	545 mL	250 mL	47678	07/19/14 07:07	TAD	TAL SAC
Total/NA	Analysis	TO-15	DL	4.61	250 mL	250 mL	47700	07/20/14 22:44	TAD	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Certification Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Laboratory: TestAmerica Sacramento

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arizona	State Program	9	AZ0708	08-11-15

Method Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: URS Corporation
Project/Site: Park-Euclid WQARF Site

TestAmerica Job ID: 320-8396-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
320-8396-1	SG-4-070914 VW-13	Air	07/09/14 12:50	07/11/14 09:15
320-8396-2	EQ BLANK-070914	Air	07/09/14 13:01	07/11/14 09:15

TestAmerica Sacramento
880 Riverside Parkway

West Sacramento, CA 95605
phone 916.374.4378 fax 916 372.1059

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Project Manager: Bob Boudrea	Samples Collected By: Erin Lancey	COC No
Company Name: URS	Phone:		1 of 1 COCs
Address 333 Wetmore Rd	Email: Robert.Boudrea@URS.com		
City/State/Zip Tucson AZ 85705			For Lab Use Only:
Phone 520 887 1800	Site Contact:		Walk-in Client
FAX:	TA Contact:		Lab Sampling
Project Name Park/Euclid	Anaylsis Turnaround Time		
Site/Location:	Standard (Specific)_____		Job / SDG No.:
P O #	Rush (Specify) _____		(See below for Add'l Items)

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 (Med / Std / Low / SIM)	MA-APH	EPA 3C	EPA 25C / 25.3	ASTM D-1946 / 1945 / 3588	EPA 15/16	TO-3	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SG-4-070914	7/9/14	1233	1250	26"	8"	7264	34001011	X											X			
EQ Blank - 070914	7/9/14	1257	1301	16"	2"	7178	34001618	X											X			

320-8396 Chain of Custody

	Temperature (Fahrenheit)			
Start	Interior	Ambient		
Stop				

	Temperature (Fahrenheit)			
Start	Interior	Ambient		
Stop				

Special Instructions/QC Requirements & Comments:

1,1-DFA is a Tenitively Idenified Compound

Samples Shipped by:	Date / Time:	Samples Received by:	
Samples Relinquished by:	Date / Time: 7-10-14 1435	Received by:	
Relinquished by:	Date / Time: 7-10-14 1530	Received by:	7/11/14 915
Lab Use Only: Shipper Name:	Opened by:	Condition:	

20°

Form No. CA-C-WI-003, Rev. 1, dated 05/10/2013

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8396
Sample # 1

Client/Project:		VFR ID:		
Canister Serial #:	34001011	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	7.38	07/14/14	EP for AO
FINAL PRESSURE (PSIA)	21.76	07/14/14	EP for AO
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.95			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
07/20/14	6.53	19.33	2.95	srs	8.73
			8.73		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #	
							7/18/2014	ATMS2		
Canister DF =	2.95	X	Load DF =	0.339213	X	Bag DF =	1	=	FINAL DF	1.000172824
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	737		Bvi (mLs)				
							Date	Instr.	File #	
							7/20/2014	ATMS2		
Canister DF =	8.73	X	Load DF =	1	X	Bag DF =	1	=	FINAL DF	8.728129915
			LVf (mLs)	250		BVf (mLs)				
			LVi (mLs)	250		Bvi (mLs)				
							Date	Instr.	File #	
Canister DF =	2.95	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF	#DIV/0!
			LVf (mLs)			BVf (mLs)				
			LVi (mLs)			Bvi (mLs)				

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

Sacramento

JOB # 320-8396
Sample # 2

Client/Project:		VFR ID:		
Canister Serial #:	34001618	Duration:		☐ Hrs ☐ Min
Cleaning Job:		Flow:		mL/min
Client ID:		Initials:		
Site Location:				

FIELD				
READING	TIME	PRESS.	DATE	INITIALS
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY			
READING	PRESS.	DATE	INITIALS
INITIAL VACUUM CHECK (INCHES Hg)	29.8		JMT
☐ Helium Pre-dilution - Final Pressure (INCHES Hg)			
INITIAL PRESSURE (PSIA)	11.50	07/14/14	EP for AO
FINAL PRESSURE (PSIA)	25.10	07/14/14	EP for AO
Pressurization Gas: ☐ N2 ☐ He	SCREENED ☐	SCRN DIL. VS 250mLs:	
Initial Canister Dilution Factor = 2.18			

CANISTER REPRESSURIZATION

Date	Pi (PSIA)	Pf (PSIA)	Initial DF	Initials	NEW DF
07/20/14	11.22	23.71	2.18		4.61
			4.61		#DIV/0!
			#DIV/0!		#DIV/0!

Analytical Dilution Factors

							Date	Instr.	File #		
							7/18/2014	ATMS2			
Canister DF =	2.18	X	Load DF =	0.4587156	X	Bag DF =	1	=	FINAL DF 1.001196649		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	545		Bvi (mLs)					
							Date	Instr.	File #		
							7/20/2014	ATMS2			
Canister DF =	4.61	X	Load DF =	1	X	Bag DF =	1	=	FINAL DF 4.612268465		
			LVf (mLs)	250		BVf (mLs)					
			LVi (mLs)	250		Bvi (mLs)					
							Date	Instr.	File #		
Canister DF =	2.18	X	Load DF =	#DIV/0!	X	Bag DF =	1	=	FINAL DF #DIV/0!		
			LVf (mLs)			BVf (mLs)					
			LVi (mLs)			Bvi (mLs)					

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 320-8396-1

Login Number: 8396

List Source: TestAmerica Sacramento

List Number: 1

Creator: Edwards, Stephanie N

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

320-7379 Chain of Custody

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Canister QC Certification

Certification Type: TO15 SCAN

Date Cleaned/Batch ID: 5/7/14 320-7379

Date of QC: 5/7/14

Data File Number: MS705071 1

CANISTER ID NUMBERS

34001946	34001047	
0807	0805	
0332	0680	
1073	1011	
1099	1618	
1067	0319	
1077	8318	
0904 ★	34000739	

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

1st level Reviewed By: [signature] Date: 5/8/14

2nd level Reviewed By: [signature] Date: 5/8/2014

Q:\FORMS\QA-814 CAN QC CERT 20130729.DOC
QA-814

ERS 7/29/2013

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

Lab Name: TestAmerica Sacramento | Job No.: 320-7379-1

SDG No.:

Client Sample ID: 34000904 | Lab Sample ID: 320-7379-8

Matrix: Air | Lab File ID: MS7050711.d

Analysis Method: TO-15 | Date Collected: 05/07/2014 00:00

Sample wt/vol: 500(mL) | Date Analyzed: 05/07/2014 22:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 41910 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
67-64-1	Acetone	0.35	J	5.0
107-02-8	Acrolein	ND		2.0
107-13-1	Acrylonitrile	ND		2.0
107-05-1	Allyl chloride	ND		0.80
71-43-2	Benzene	ND		0.40
100-44-7	Benzyl chloride	ND		0.80
75-27-4	Bromodichloromethane	ND		0.30
75-25-2	Bromoform	ND		0.40
74-83-9	Bromomethane	ND		0.80
106-99-0	1,3-Butadiene	ND		0.80
106-97-8	n-Butane	ND		0.40
78-93-3	2-Butanone (MEK)	ND		0.80
75-65-0	tert-Butyl alcohol (TBA)	ND		2.0
104-51-8	n-Butylbenzene	ND		0.40
135-98-8	sec-Butylbenzene	ND		0.40
98-06-6	tert-Butylbenzene	ND		0.80
75-15-0	Carbon disulfide	ND		0.80
56-23-5	Carbon tetrachloride	ND		0.80
108-90-7	Chlorobenzene	ND		0.30
75-45-6	Chlorodifluoromethane	ND		0.80
75-00-3	Chloroethane	ND		0.80
67-66-3	Chloroform	ND		0.30
74-87-3	Chloromethane	ND		0.80
95-49-8	2-Chlorotoluene	ND		0.40
110-82-7	Cyclohexane	ND		0.40
124-48-1	Dibromochloromethane	ND		0.40
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80
74-95-3	Dibromomethane	ND		0.40
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		0.40
95-50-1	1,2-Dichlorobenzene	ND		0.40
541-73-1	1,3-Dichlorobenzene	ND		0.40
106-46-7	1,4-Dichlorobenzene	ND		0.40
75-71-8	Dichlorodifluoromethane	ND		0.40
75-34-3	1,1-Dichloroethane	ND		0.30
107-06-2	1,2-Dichloroethane	ND		0.80
75-35-4	1,1-Dichloroethene	ND		0.80

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

Lab Name: TestAmerica Sacramento
Job No.: 320-7379-1
SDG No.:
Client Sample ID: 34000904
Lab Sample ID: 320-7379-8
Matrix: Air
Lab File ID: MS7050711.d
Analysis Method: TO-15
Date Collected: 05/07/2014 00:00
Sample wt/vol: 500(mL)
Date Analyzed: 05/07/2014 22:06
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: RTX-Volatiles ID: 0.32(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 41910
Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
156-59-2	cis-1,2-Dichloroethene	ND		0.40
156-60-5	trans-1,2-Dichloroethene	ND		0.40
78-87-5	1,2-Dichloropropane	ND		0.40
10061-01-5	cis-1,3-Dichloropropene	ND		0.40
10061-02-6	trans-1,3-Dichloropropene	ND		0.40
123-91-1	1,4-Dioxane	ND		0.80
141-78-6	Ethyl acetate	ND		0.30
100-41-4	Ethylbenzene	ND		0.40
622-96-8	4-Ethyltoluene	ND		0.40
142-82-5	n-Heptane	ND		0.80
87-68-3	Hexachlorobutadiene	ND	*	2.0
110-54-3	n-Hexane	ND		0.80
591-78-6	2-Hexanone	ND		0.40
98-82-8	Isopropylbenzene	ND		0.80
99-87-6	4-Isopropyltoluene	ND		0.80
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80
80-62-6	Methyl methacrylate	ND		0.80
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40
75-09-2	Methylene Chloride	ND		0.40
98-83-9	alpha-Methylstyrene	ND		0.40
91-20-3	Naphthalene	ND	*	0.80
111-65-9	n-Octane	ND		0.40
109-66-0	n-Pentane	ND		0.80
115-07-1	Propylene	ND		0.40
103-65-1	N-Propylbenzene	ND		0.40
100-42-5	Styrene	ND		0.40
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40
127-18-4	Tetrachloroethene	ND		0.40
109-99-9	Tetrahydrofuran	ND		0.80
108-88-3	Toluene	ND		0.40
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40
120-82-1	1,2,4-Trichlorobenzene	ND	*	2.0
71-55-6	1,1,1-Trichloroethane	ND		0.30
79-00-5	1,1,2-Trichloroethane	ND		0.40
79-01-6	Trichloroethene	ND		0.40
75-69-4	Trichlorofluoromethane	ND		0.40

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

Lab Name: TestAmerica Sacramento Job No.: 320-7379-1

SDG No.:

Client Sample ID: 34000904 Lab Sample ID: 320-7379-8

Matrix: Air Lab File ID: MS7050711.d

Analysis Method: TO-15 Date Collected: 05/07/2014 00:00

Sample wt/vol: 500(mL) Date Analyzed: 05/07/2014 22:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: RTX-Volatiles ID: 0.32(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 41910 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL
96-18-4	1,2,3-Trichloropropane	ND		0.40
95-63-6	1,2,4-Trimethylbenzene	ND		0.80
108-67-8	1,3,5-Trimethylbenzene	ND		0.40
540-84-1	2,2,4-Trimethylpentane	ND		0.40
108-05-4	Vinyl acetate	ND		0.80
593-60-2	Vinyl bromide	ND		0.80
75-01-4	Vinyl chloride	ND		0.40
179601-23-1	m,p-Xylene	ND		0.80
95-47-6	o-Xylene	ND		0.40

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	90		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Sacramento
Target Compound Quantitation Report

Data File:	\\SACCHROM\ChromData\ATMS7\20140507-12335.b\MS7050711.d				
Lims ID:	320-7379-A-8	Lab Sample ID:	320-7379-8		
Client ID:	34000904				
Sample Type:	Client				
Inject. Date:	07-May-2014 22:06:30	ALS Bottle#:	4	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	320-7379-A-8				
Misc. Info.:	500mL;34000904				
Operator ID:	SRS	Instrument ID:	ATMS7		
Method:	\\SACCHROM\ChromData\ATMS7\20140507-12335.b\TO15_ATMS7N.m				
Limit Group:	MSA - TO15 - ICAL				
Last Update:	08-May-2014 07:49:50	Calib Date:	25-Apr-2014 07:43:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SACCHROM\ChromData\ATMS7\20140425-12096.b\MS7042120.d				
Column 1 :	RTX Volatiles (0.32 mm)		Det: MS SCAN		
Process Host:	XAWRK027				
First Level Reviewer: ortizam		Date:	08-May-2014 09:28:56		

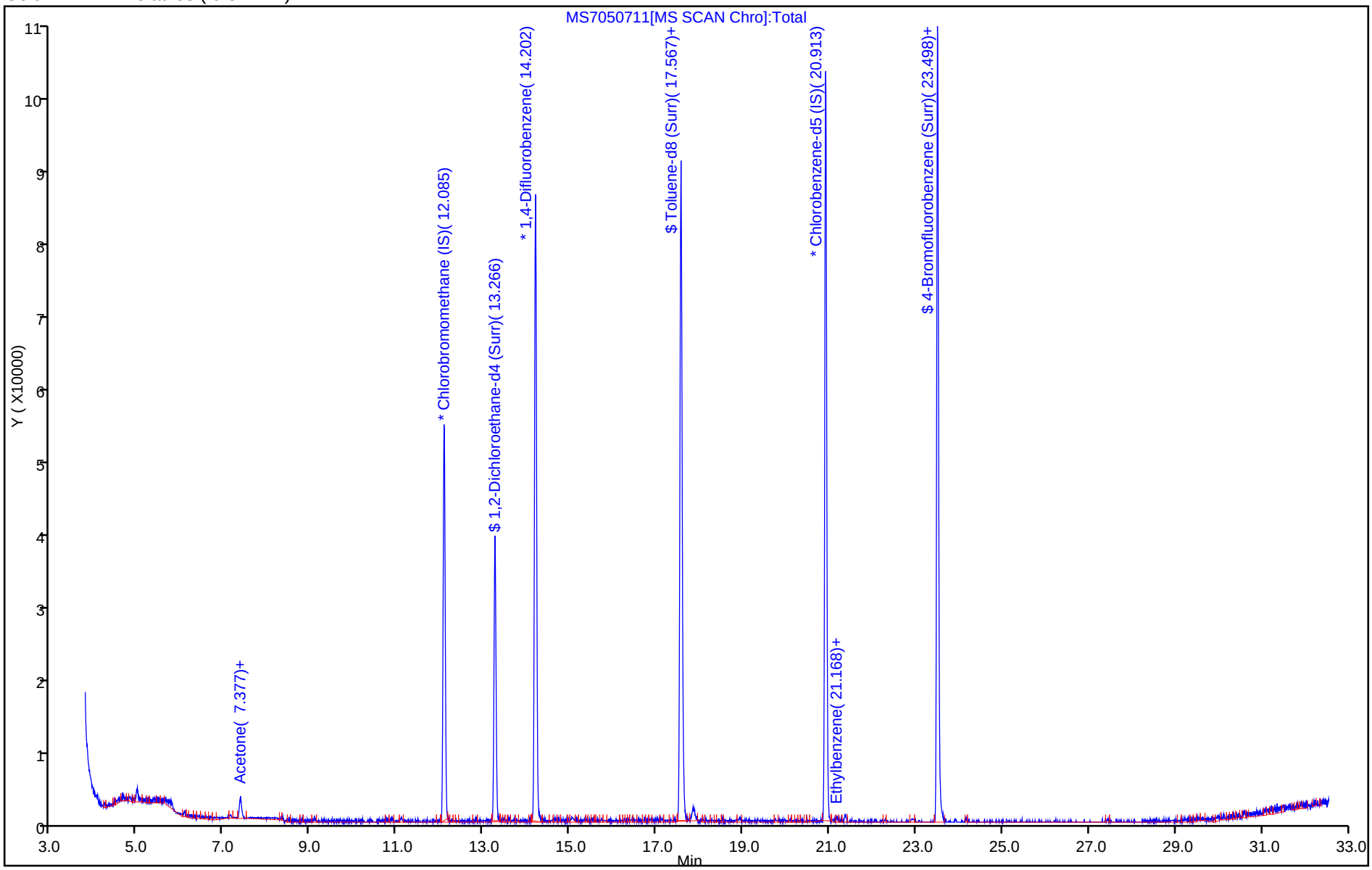
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
* 1 Chlorobromomethane (IS)	130	12.091	12.128	-0.037	89	30579	4.00	
* 2 1,4-Difluorobenzene	114	14.202	14.233	-0.031	87	125648	4.00	
* 3 Chlorobenzene-d5 (IS)	117	20.913	20.937	-0.024	80	103129	4.00	
$ 4 1,2-Dichloroethane-d4 (Sur	65	13.266	13.302	-0.036	92	45248	3.67	
$ 5 Toluene-d8 (Surr)	100	17.567	17.597	-0.030	87	75103	3.96	
$ 6 4-Bromofluorobenzene (Surr	95	23.498	23.516	-0.018	87	68820	3.60	
31 Acetone	43	7.377	7.340	0.037	70	7064	0.3463	
97 Ethylbenzene	91	21.174	21.198	-0.024	1	1101	0.0222	

Report Date: 08-May-2014 09:28:57 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

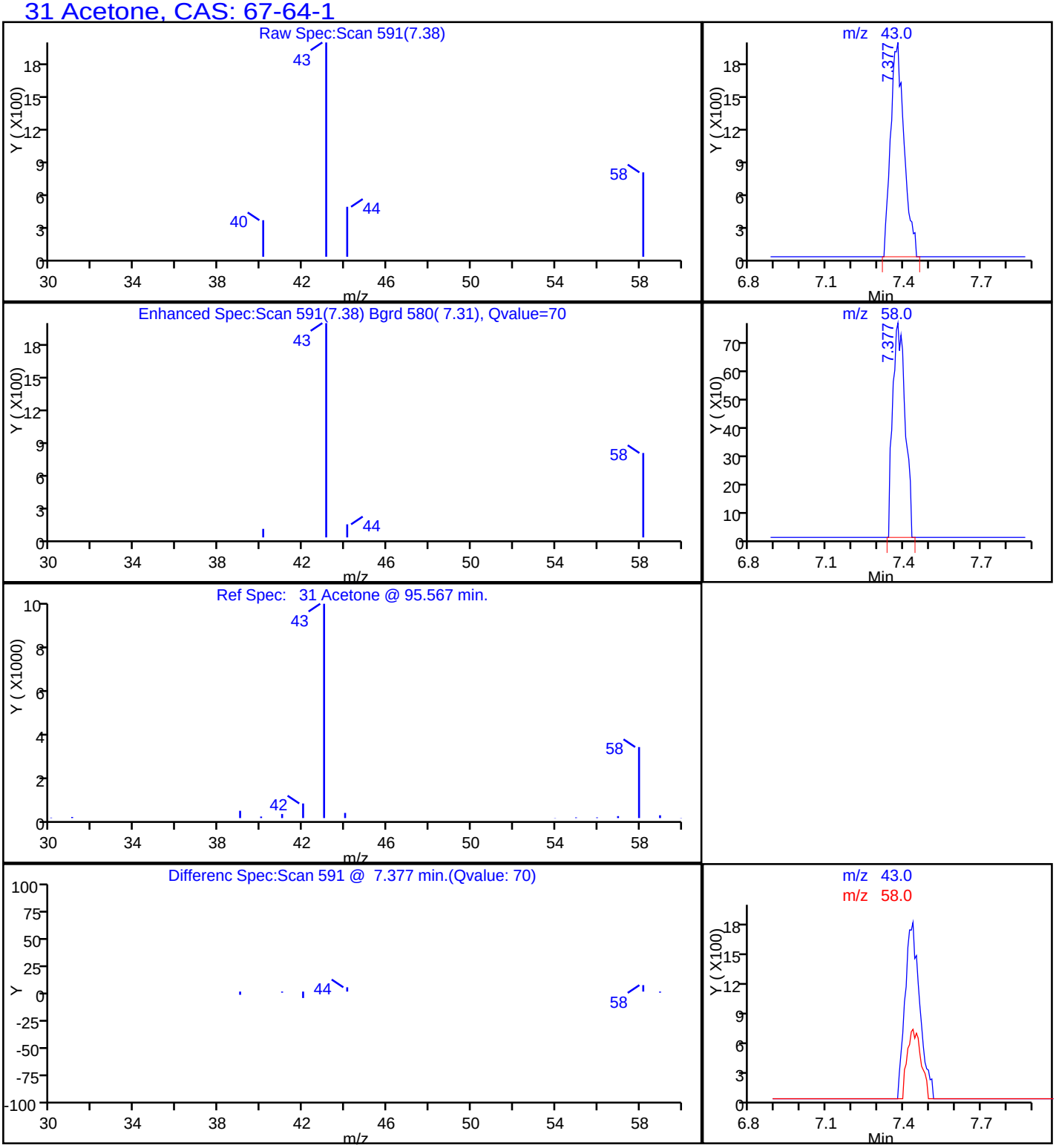
Data File:	\\SACCHROM\ChromData\ATMS7\20140507-12335.b\MS7050711.d				
Injection Date:	07-May-2014 22:06:30	Instrument ID:	ATMS7	Operator ID:	SRS
Lims ID:	320-7379-A-8	Lab Sample ID:	320-7379-8	Worklist Smp#:	29
Client ID:	34000904				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		

Column: RTX Volatiles (0.32 mm)



Report Date: 08-May-2014 09:28:57 Chrom Revision: 2.2 14-Apr-2014 13:40:08

TestAmerica Sacramento

Data File:	\\SACCHROM\ChromData\ATMS7\20140507-12335.b\MS7050711.d				
Injection Date:	07-May-2014 22:06:30	Instrument ID:	ATMS7		
Lims ID:	320-7379-A-8	Lab Sample ID:	320-7379-8		
Client ID:	34000904				
Operator ID:	SRS	ALS Bottle#:	4	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	TO15_ATMS7N	Limit Group:	MSA - TO15 - ICAL		
Column:	RTX Volatiles (0.32 mm)	Detector	MS SCAN		

31 Acetone, CAS: 67-64-1