

ANALYTICAL REPORT

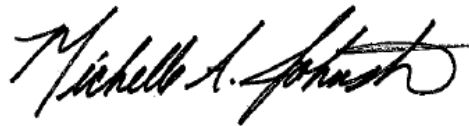
Job Number: 280-76216-3

Job Description: Fort Wingate, New Mexico

For:

Sundance Consulting, Inc
6700 Jefferson Blvd NE
Albuquerque, NM 87109

Attention: JohnDavid Nance



Approved for release.
Michelle A Johnston
Project Manager II
12/10/2015 4:06 PM

Michelle A Johnston, Project Manager II
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(303)736-0110
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12/10/2015
Revision: 1

cc: Elizabeth Farias
Jim Lockhart
Ben Moayyad
Mr. Doug Scott

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com



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CASE NARRATIVE
Client: Sundance Consulting, Inc.
Project: Fort Wingate, New Mexico
Report Number: 280-76216-3

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

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

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

Revision - 12/10/2015

In accordance with the client's instructions provided on 12/02/2015, the data included in this report were revised from methods compliant with DOD QSM V5.0 to methods compliant with DOD QSM V4.2.

Sample Receipt

Two samples were received on 10/31/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 6 coolers at receipt time were 0.3°C, 0.4°C, 0.4°C, 1.1°C, 1.2°C and 3.0°C.

One of three hydrochloric acid preserved VOA vials received for sample MW03102015 (280-76216-3) for 8011 EDB analysis was broken. Sufficient volume remains to perform the requested analysis per the chain of custody. The client was notified on 11/2/2015.

Additional samples/analyses requested on the chain-of-custody are reported under separate covers (280-76216-1 & 280-76216-2).

No other anomalies were encountered during sample receipt.

Ethylene Dibromide - 8011

Samples MW03102015 (280-76216-3) and TMW33102015 (280-76216-11) were analyzed for EDB and DBCP in accordance with 8011. The samples were prepared and analyzed on 11/05/2015.

MS/MSD analyses for prep batch 280-302740 were not requested.

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

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3

SDG No.: _____

Instrument ID: SGC_E Analysis Batch Number: 302773

Lab Sample ID: 280-76216-11 Client Sample ID: TMW33102015

Date Analyzed: 11/05/15 21:44 Lab File ID: 020F1901.D GC Column: RTX-VRX ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,2-Dibromopropane	3.86	Split Peak	cokleyc	11/09/15 17:45

SAMPLE SUMMARY

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-76216-3	MW03102015	Water	10/30/2015 0910	10/31/2015 0900
280-76216-11	TMW33102015	Water	10/30/2015 1120	10/31/2015 0900

EXECUTIVE SUMMARY - Detections

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
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No Detections

METHOD SUMMARY

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Description	Lab Location	Method	Preparation Method
Matrix: Water			
EDB, DBCP, and 1,2,3-TCP (GC)	TAL DEN	SW846 8011/DOD	
Microextraction	TAL DEN		SW846 8011

Lab References:

TAL DEN = TestAmerica Denver

Method References:

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

METHOD / ANALYST SUMMARY

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Method	Analyst	Analyst ID
SW846 8011/DOD	Cokley, Cheyana D	CDC

Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Client Sample ID: MW03102015

Lab Sample ID: 280-76216-3

Date Sampled: 10/30/2015 0910

Client Matrix: Water

Date Received: 10/31/2015 0900

8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 35.5 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 2125		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0036	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	107		70 - 130

Analytical Data

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Client Sample ID: TMW33102015

Lab Sample ID: 280-76216-11

Date Sampled: 10/30/2015 1120

Client Matrix: Water

Date Received: 10/31/2015 0900

8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Analysis Method: 8011/DOD	Analysis Batch: 280-302773	Instrument ID: SGC_E
Prep Method: 8011	Prep Batch: 280-302740	Initial Weight/Volume: 35.5 mL
Dilution: 1.0		Final Weight/Volume: 35 mL
Analysis Date: 11/05/2015 2144		Injection Volume: 3 uL
Prep Date: 11/05/2015 1418		Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	DL	LOQ
Ethylene Dibromide	0.014	U	0.0036	0.020

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dibromopropane	116		70 - 130

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Surrogate Recovery Report

8011/DOD EDB, DBCP, and 1,2,3-TCP (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	12DBP1 %Rec
280-76216-3	MW03102015	107
280-76216-11	TMW33102015	116
MB 280-302740/2-A		107
LCS 280-302740/3-A		107
LCSD 280-302740/4-A		107

Surrogate	Acceptance Limits
12DBP = 1,2-Dibromopropane	70-130

Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Method Blank - Batch: 280-302740

**Method: 8011/DOD
Preparation: 8011**

Lab Sample ID: MB 280-302740/2-A	Analysis Batch: 280-302773	Instrument ID: SGC_E
Client Matrix: Water	Prep Batch: 280-302740	Lab File ID: 004F0301.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1638	Units: ug/L	Final Weight/Volume: 35 mL
Prep Date: 11/05/2015 1418		Injection Volume: 3 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	Result	Qual	DL	LOQ
Ethylene Dibromide	0.014	U	0.0037	0.020
Surrogate	% Rec		Acceptance Limits	
1,2-Dibromopropane	107		70 - 130	

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-302740**

**Method: 8011/DOD
Preparation: 8011**

LCS Lab Sample ID: LCS 280-302740/3-A	Analysis Batch: 280-302773	Instrument ID: SGC_E
Client Matrix: Water	Prep Batch: 280-302740	Lab File ID: 005F0401.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1657	Units: ug/L	Final Weight/Volume: 35 mL
Prep Date: 11/05/2015 1418		Injection Volume: 3 uL
Leach Date: N/A		Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-302740/4-A	Analysis Batch: 280-302773	Instrument ID: SGC_E
Client Matrix: Water	Prep Batch: 280-302740	Lab File ID: 006F0501.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 35 mL
Analysis Date: 11/05/2015 1716	Units: ug/L	Final Weight/Volume: 35 mL
Prep Date: 11/05/2015 1418		Injection Volume: 3 uL
Leach Date: N/A		Column ID: PRIMARY

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Ethylene Dibromide	98	99	70 - 130	1	10		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dibromopropane	107	107			70 - 130		

Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-302740**

**Method: 8011/DOD
Preparation: 8011**

LCS Lab Sample ID: LCS 280-302740/3-A Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/05/2015 1657
Prep Date: 11/05/2015 1418
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-302740/4-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 11/05/2015 1716
Prep Date: 11/05/2015 1418
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ethylene Dibromide	0.250	0.250	0.245	0.246

DATA REPORTING QUALIFIERS

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Lab Section	Qualifier	Description
GC Semi VOA	U	Undetected at the Limit of Detection.

Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-302740					
LCS 280-302740/3-A	Lab Control Sample	T	Water	8011	
LCSD 280-302740/4-A	Lab Control Sample Duplicate	T	Water	8011	
MB 280-302740/2-A	Method Blank	T	Water	8011	
280-76216-3	MW03102015	T	Water	8011	
280-76216-11	TMW33102015	T	Water	8011	
Analysis Batch:280-302773					
LCS 280-302740/3-A	Lab Control Sample	T	Water	8011/DOD	280-302740
LCSD 280-302740/4-A	Lab Control Sample Duplicate	T	Water	8011/DOD	280-302740
MB 280-302740/2-A	Method Blank	T	Water	8011/DOD	280-302740
280-76216-3	MW03102015	T	Water	8011/DOD	280-302740
280-76216-11	TMW33102015	T	Water	8011/DOD	280-302740

Report Basis

T = Total

Quality Control Results

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Laboratory Chronicle

Lab ID: 280-76216-3

Client ID: MW03102015

Sample Date/Time: 10/30/2015 09:10 Received Date/Time: 10/31/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76216-M-3-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76216-M-3-A		280-302773	280-302740	11/05/2015 21:25	1	TAL DEN	CDC

Lab ID: 280-76216-11

Client ID: TMW33102015

Sample Date/Time: 10/30/2015 11:20 Received Date/Time: 10/31/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	280-76216-N-11-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	280-76216-N-11-A		280-302773	280-302740	11/05/2015 21:44	1	TAL DEN	CDC

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	MB 280-302740/2-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	MB 280-302740/2-A		280-302773	280-302740	11/05/2015 16:38	1	TAL DEN	CDC

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	LCS 280-302740/3-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	LCS 280-302740/3-A		280-302773	280-302740	11/05/2015 16:57	1	TAL DEN	CDC

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:8011	LCSD 280-302740/4-A		280-302773	280-302740	11/05/2015 14:18	1	TAL DEN	CDC
A:8011/DOD	LCSD 280-302740/4-A		280-302773	280-302740	11/05/2015 17:16	1	TAL DEN	CDC

Lab References:

TAL DEN = TestAmerica Denver

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Denver

Job No.: 280-76216-3

SDG No.: _____

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
504ICALWork_00100	11/13/15	10/26/15	P&T Methanol, Lot 0000099494	10 mL	504ICALStock_00068	100 uL	1,2,3-Trichloropropane	0.02 ug/mL
							1,2-Dibromo-3-Chloropropane	0.02 ug/mL
							Ethylene Dibromide	0.02 ug/mL
.504ICALStock_00068	11/13/15	10/26/15	P&T Methanol, Lot 0000099494	10 mL	504ICALStd_00021	10 uL	1,2,3-Trichloropropane	2 ug/mL
							1,2-Dibromo-3-Chloropropane	2 ug/mL
							Ethylene Dibromide	2 ug/mL
..504ICALStd_00021	11/13/15	SPEX, Lot C1121119012			(Purchased Reagent)		1,2,3-Trichloropropane	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
504LCSTWork_00050	11/05/15	10/09/15	P&T Methanol, Lot 0000085233	10 mL	504LCSTStd_00025	12.5 uL	1,2,3-Trichloropropane	0.25 ug/mL
							1,2-Dibromo-3-Chloropropane	0.25 ug/mL
							Ethylene Dibromide	0.25 ug/mL
.504LCSTStd_00025	02/07/16	AccuStandard, Lot 213021004			(Purchased Reagent)		1,2,3-Trichloropropane	0.2 mg/mL
							1,2-Dibromo-3-Chloropropane	0.2 mg/mL
							Ethylene Dibromide	0.2 mg/mL
504SurrWork_00149	11/13/15	10/26/15	P&T Methanol, Lot 0000099494	10 mL	504SurrStock_00043	50 uL	1,2-Dibromopropane	0.1 ug/mL
.504SurrStock_00043	11/13/15	10/26/15	P&T Methanol, Lot 0000085233	10 mL	504SurrStd_00027	20 uL	1,2-Dibromopropane	20 ug/mL
..504SurrStd_00027	11/13/15	Ultra Scientific, Lot CH-3228			(Purchased Reagent)		1,2-Dibromopropane	10000 ug/mL



Reference Materials Producer
Cert #2496.01

SPEXertificate®

Certificate of Reference Material



Chemical Testing
Cert #2496.02

Catalog Number: 5041-AH

Lot No. C1121119012

Description: Method 504.1 Analytes (High Level)

Matrix: Methanol (Purge & Trap Grade)

Manufactured Date: 11-19-2012

Expiration Date: 11-19-2015

This SPEXOrganica® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

<u>Compound</u>	<u>CAS #</u>	<u>Labeled</u>	<u>Purity</u>	<u>Certified†</u>	<u>Uncertainty</u>
1,2,3-Trichloropropane	96-18-4	2000 µg/mL	99%	2010 µg/mL	± 72 µg/mL
1,2-Dibromo-3-chloropropane	96-12-8	2000 µg/mL	98%	2000 µg/mL	± 72 µg/mL
1,2-Dibromoethane	106-93-4	2000 µg/mL	99%	2000 µg/mL	± 72 µg/mL

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 11-19-2012

Certifying Officer: 



CERTIFICATE OF ANALYSIS

CATALOG NO: M-504.1-CSS
DESCRIPTION: Method 504.1 - Calibration Stock Solution
LOT: 213021004
SOLVENT: Methanol

EXPIRATION: Feb 7, 2016
DATE CERTIFIED: Feb 7, 2013
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Ambient
HAZARDS: HIGHLY FLAMMABLE

Refer to the MSDS for
additional safety
information

- Included on ISO/IEC 17025 Scope of Accreditation
- Included on ISO Guide 34 Scope of Accreditation

Component	Cas Number	Purity % (GC/FID)	Prepared Concentration ¹ (µg/mL)	Certified Analyte Concentration ² (µg/mL)
1,2-Dibromoethane	106-93-4	99.9	200.1	199.9
1,2-Dibromo-3-chloropropane	96-12-8	100	200.1	200.1
1,2,3-Trichloropropane	96-18-4	98.5	200.6	197.6



2325019

ID: 504LCSStd_00022

Exp: 02/07/16 Prep: MPS

3 analyte 2nd source std

23, 24, 25, 26.

3 Components

1. All weights are traceable through NIST, Test No. 822-276872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager



Certificate of Analysis

504 surr std

1,2-Dibromopropane Solution

Product Number: PPS-400

Page: 1 of 1

Lot Number: CH-3228

Lot Issue Date: 04-Oct-2011

Expiration Date: 30-Nov-2015

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
1,2-dibromopropane	000078-75-1	03409TQ	10031 ± 50 µg/mL

Matrix: hexane

Storage: Store at Room Temperature (18-25° C)

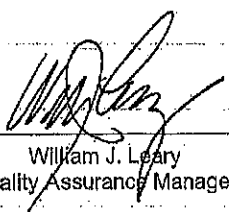
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 17025:2005
Accredited
AZLA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1008

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrascl.com


William J. Leary
Quality Assurance Manager

Certification Summary

Client: Sundance Consulting, Inc
 Project/Site: Fort Wingate, New Mexico

TestAmerica Job ID: 280-76216-3

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver	A2LA	DoD ELAP		2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025		2907.01
TestAmerica Denver	Alaska (UST)	State Program	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas DEQ	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAP	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Illinois	NELAP	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAP	7	E-10166
TestAmerica Denver	Louisiana	NELAP	6	02096
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Minnesota	NELAP	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAP	1	205310
TestAmerica Denver	New Jersey	NELAP	2	CO004
TestAmerica Denver	New York	NELAP	2	11964
TestAmerica Denver	North Carolina (WW/SW)	State Program	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAP	10	4025
TestAmerica Denver	Pennsylvania	NELAP	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002001
TestAmerica Denver	Texas	NELAP	6	T104704183-15-11
TestAmerica Denver	USDA	Federal		P330-13-00202
TestAmerica Denver	Utah	NELAP	8	CO00026
TestAmerica Denver	Virginia	NELAP	3	460232
TestAmerica Denver	Washington	State Program	10	C583
TestAmerica Denver	West Virginia DEP	State Program	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430
TestAmerica Denver	Wyoming (UST)	A2LA	8	2907.01

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

Method 8011

**EDB, DBCP, and 1,2,3-TCP (GC) by
Method 8011**

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Denver

Job No.: 280-76216-3

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): RTX 502.2 ID: 0.32 (mm)

Client Sample ID	Lab Sample ID	12DBP1 #
MW03102015	280-76216-3	107
TMW33102015	280-76216-11	116
	MB 280-302740/2-A	107
	LCS 280-302740/3-A	107
	LCSD 280-302740/4-A	107

12DBP = 1,2-Dibromopropane

QC LIMITS
70-130

Column to be used to flag recovery values

FORM II 8011/DOD

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-76216-3

SDG No.: _____

Matrix: Water Level: Low Lab File ID: 005F0401.D

Lab ID: LCS 280-302740/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Ethylene Dibromide	0.250	0.245	98	70-130	

Column to be used to flag recovery and RPD values

FORM III
GC SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 006F0501.D
 Lab ID: LCS D 280-302740/4-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS D CONCENTRATION (ug/L)	LCS D % REC	% RPD	QC LIMITS		#
					RPD	REC	
Ethylene Dibromide	0.250	0.246	99	1	10	70-130	

Column to be used to flag recovery and RPD values
 FORM III 8011/DOD

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: MB 280-302740/2-A
 Matrix: Water Date Extracted: 11/05/2015 14:18
 Lab File ID: (1) 004F0301.D Lab File ID: (2) 004F0301.D
 Date Analyzed: (1) 11/05/2015 16:38 Date Analyzed: (2) 11/05/2015 16:38
 Instrument ID: (1) SGC_E Instrument ID: (2) SGC_E
 GC Column: (1) RTX 502.2 ID: 0.32 (mm) GC Column: (2) RTX-VRX ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 280-302740/3-A	11/05/2015 16:57	11/05/2015 16:57
	LCSD 280-302740/4-A	11/05/2015 17:16	11/05/2015 17:16
MW03102015	280-76216-3	11/05/2015 21:25	11/05/2015 21:25
TMW33102015	280-76216-11	11/05/2015 21:44	11/05/2015 21:44

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Sample No.: STD4RT 280-301315/7 Date Analyzed: 10/27/2015 16:52
 Instrument ID: SGC_E GC Column: RTX 502.2 ID: 0.32 (mm)
 Lab File ID (Standard): 006F0601.D Heated Purge: (Y/N) N
 Calibration ID: 24205

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
INITIAL CALIBRATION SURROGATE				4.37		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	006F0601.D	4.37		
ICV 280-301315/11		10/27/2015 18:08	010F1001.D	4.37		

Column used to flag values outside QC limits

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Sample No.: STD4RT 280-301315/7 Date Analyzed: 10/27/2015 16:52
 Instrument ID: SGC_E GC Column: RTX-VRX ID: 0.32 (mm)
 Lab File ID (Standard): 006F0601.D Heated Purge: (Y/N) N
 Calibration ID: 24206

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
INITIAL CALIBRATION SURROGATE				3.86		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	006F0601.D	3.86		
ICV 280-301315/11		10/27/2015 18:08	010F1001.D	3.86		

Column used to flag values outside QC limits

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Sample No.: CCVRT 280-302773/5 Date Analyzed: 11/05/2015 16:18
 Instrument ID: SGC_E GC Column: RTX 502.2 ID: 0.32 (mm)
 Lab File ID (Standard): 003F0201.D Heated Purge: (Y/N) N
 Calibration ID: 24205

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
CONTINUING CALIBRATION SURROGATE				4.36		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 280-302773/5		11/05/2015 16:18	003F0201.D	4.36		
MB 280-302740/2-A		11/05/2015 16:38	004F0301.D	4.36		
LCS 280-302740/3-A		11/05/2015 16:57	005F0401.D	4.36		
LCSD 280-302740/4-A		11/05/2015 17:16	006F0501.D	4.36		
CCV 280-302773/18		11/05/2015 20:28	016F1501.D	4.37		
280-76216-3	MW03102015	11/05/2015 21:25	019F1801.D	4.37		
280-76216-11	TMW33102015	11/05/2015 21:44	020F1901.D	4.37		
CCV 280-302773/28		11/05/2015 23:37	026F2501.D	4.37		

Column used to flag values outside QC limits

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Sample No.: CCVRT 280-302773/5 Date Analyzed: 11/05/2015 16:18
 Instrument ID: SGC_E GC Column: RTX-VRX ID: 0.32 (mm)
 Lab File ID (Standard): 003F0201.D Heated Purge: (Y/N) N
 Calibration ID: 24206

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSS IS GIVEN BELOW:

				12DBP		
				RT #		
CONTINUING CALIBRATION SURROGATE				3.85		
UPPER LIMIT						
LOWER LIMIT						
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCVRT 280-302773/5		11/05/2015 16:18	003F0201.D	3.85		
CCV 280-302773/18		11/05/2015 20:28	016F1501.D	3.86		
CCV 280-302773/28		11/05/2015 23:37	026F2501.D	3.86		

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-302740/3-A
 Instrument ID (1): SGC_E Instrument ID (2): SGC_E
 Date Analyzed (1): 11/05/2015 16:57 Date Analyzed (2): 11/05/2015 16:57
 GC Column (1): RTX 502.2 ID: 0.32 (mm) GC Column (2): RTX-VRX ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		3.77	3.74	3.80	0.245		0.6
	2		3.24	3.21	3.27	0.243		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-302740/4-A
 Instrument ID (1): SGC_E Instrument ID (2): SGC_E
 Date Analyzed (1): 11/05/2015 17:16 Date Analyzed (2): 11/05/2015 17:16
 GC Column (1): RTX 502.2 ID: 0.32 (mm) GC Column (2): RTX-VRX ID: 0.32 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Ethylene Dibromide	1		3.77	3.74	3.80	0.246		0.6
	2		3.24	3.21	3.27	0.245		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: MW03102015 Lab Sample ID: 280-76216-3
 Matrix: Water Lab File ID: 019F1801.D
 Analysis Method: 8011/DOD Date Collected: 10/30/2015 09:10
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18
 Sample wt/vol: 35.5 (mL) Date Analyzed: 11/05/2015 21:25
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\019F1801.D
 Lims ID: 280-76216-M-3-A Lab Sample ID: 280-76216-3
 Client ID: MW03102015
 Sample Type: Client
 Inject. Date: 05-Nov-2015 21:25:01 ALS Bottle#: 19 Worklist Smp#: 21
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: 280-76216-M-3
 Operator ID: CDC Instrument ID: SGC_E
 Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.367	4.363	0.004	6318	0.1068	
2	3.857	3.853	0.004	2018	0.1104	
					RPD = 3.33	

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\019F1801.D

Injection Date: 05-Nov-2015 21:25:01

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: 280-76216-M-3-A

Lab Sample ID: 280-76216-3

Worklist Smp#: 21

Client ID: MW03102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

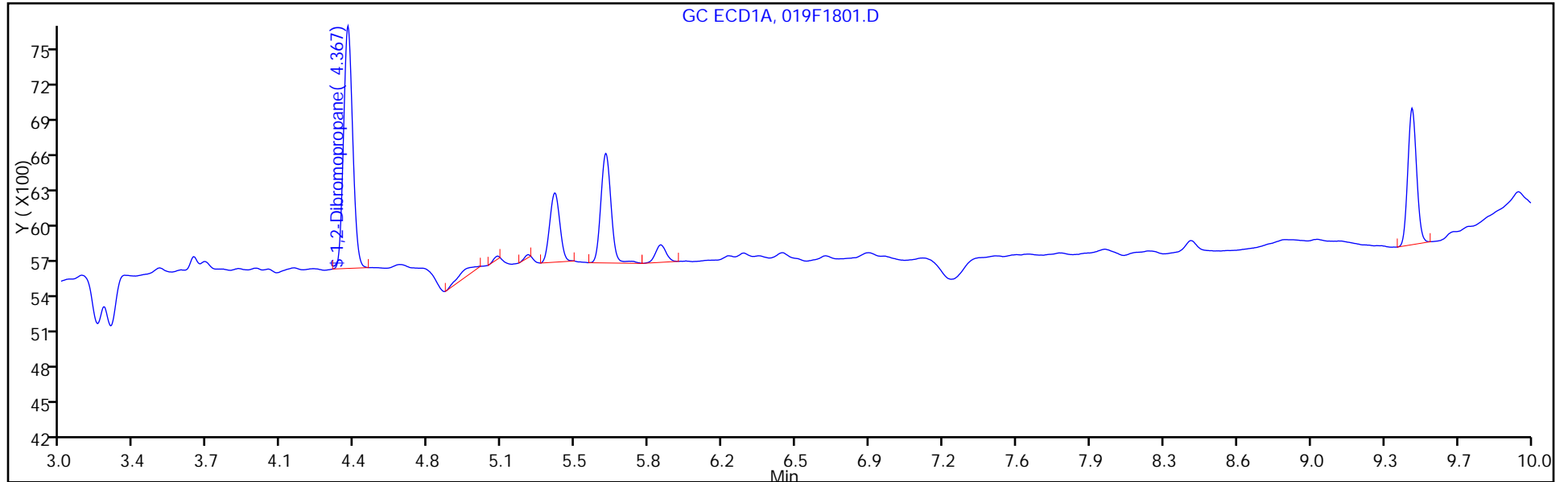
ALS Bottle#: 19

Method: 504.1

Limit Group: GCSV - 8011_504

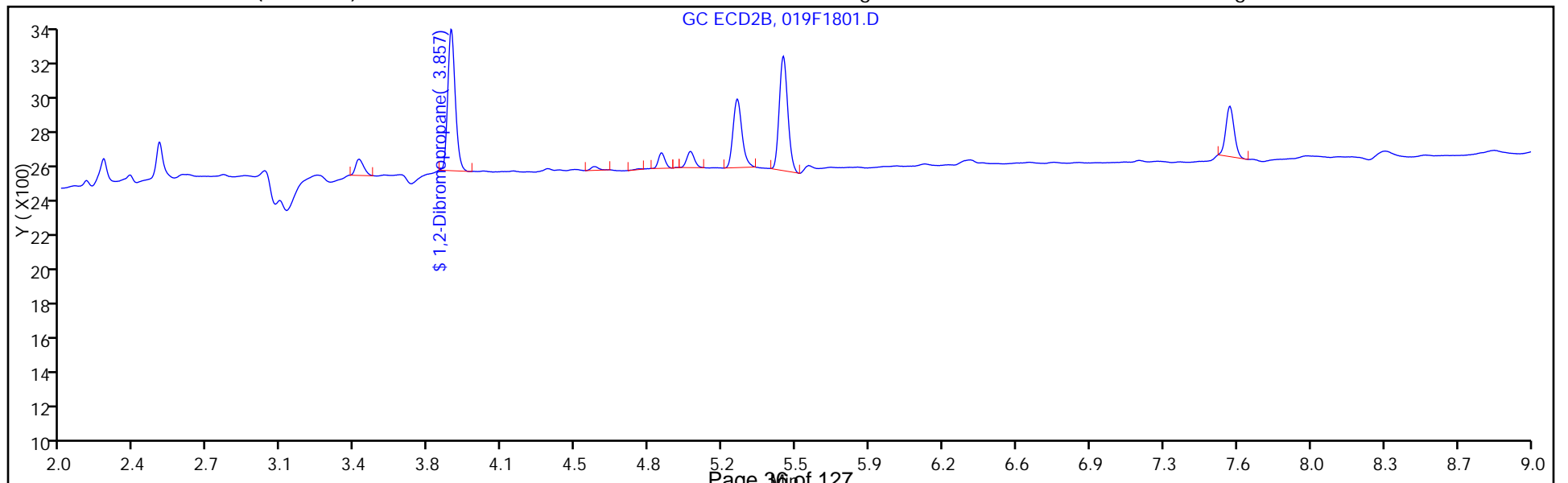
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: TMW33102015 Lab Sample ID: 280-76216-11
 Matrix: Water Lab File ID: 020F1901.D
 Analysis Method: 8011/DOD Date Collected: 10/30/2015 11:20
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18
 Sample wt/vol: 35.5 (mL) Date Analyzed: 11/05/2015 21:44
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0036

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	116		70-130

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\020F1901.D
 Lims ID: 280-76216-N-11-A Lab Sample ID: 280-76216-11
 Client ID: TMW33102015
 Sample Type: Client
 Inject. Date: 05-Nov-2015 21:44:02 ALS Bottle#: 20 Worklist Smp#: 22
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: 280-76216-N-11
 Operator ID: CDC Instrument ID: SGC_E
 Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restek Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:45:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	----------------	-------

1 Ethylene Dibromide						
1		3.773			ND	
2		3.243				
\$ 2 1,2-Dibromopropane						
1	4.367	4.363	0.004	6864	0.1160	M
2	3.857	3.853	0.004	2082	0.1139	M
RPD = 1.84						

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\020F1901.D

Injection Date: 05-Nov-2015 21:44:02

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: 280-76216-N-11-A

Lab Sample ID: 280-76216-11

Worklist Smp#: 22

Client ID: TMW33102015

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

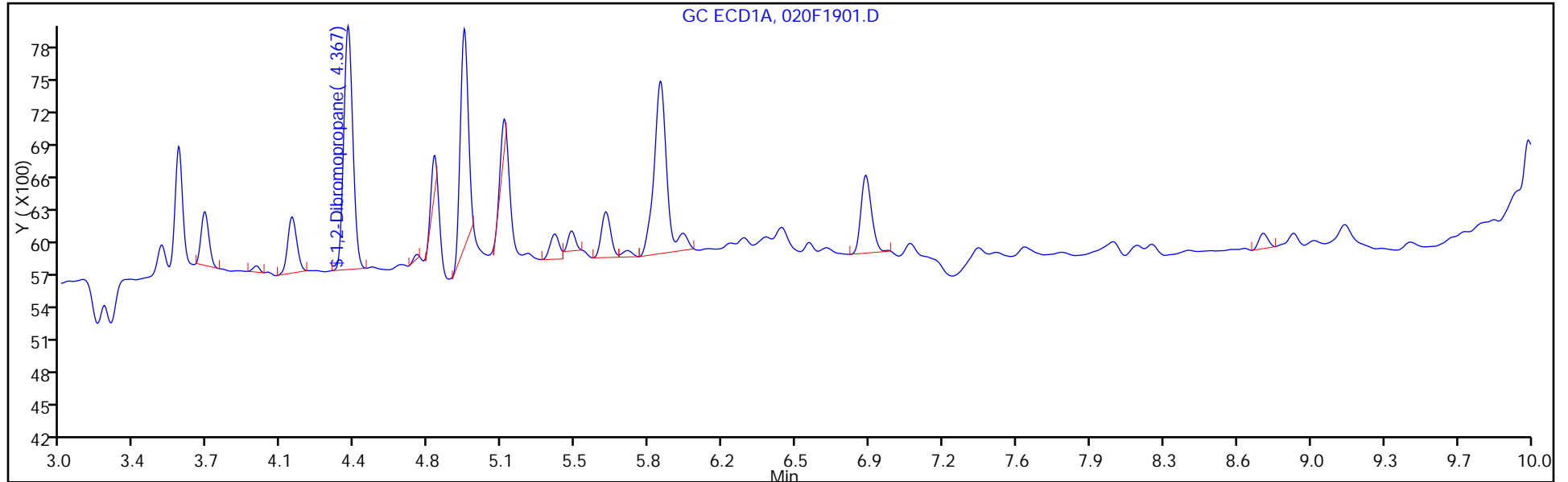
ALS Bottle#: 20

Method: 504.1

Limit Group: GCSV - 8011_504

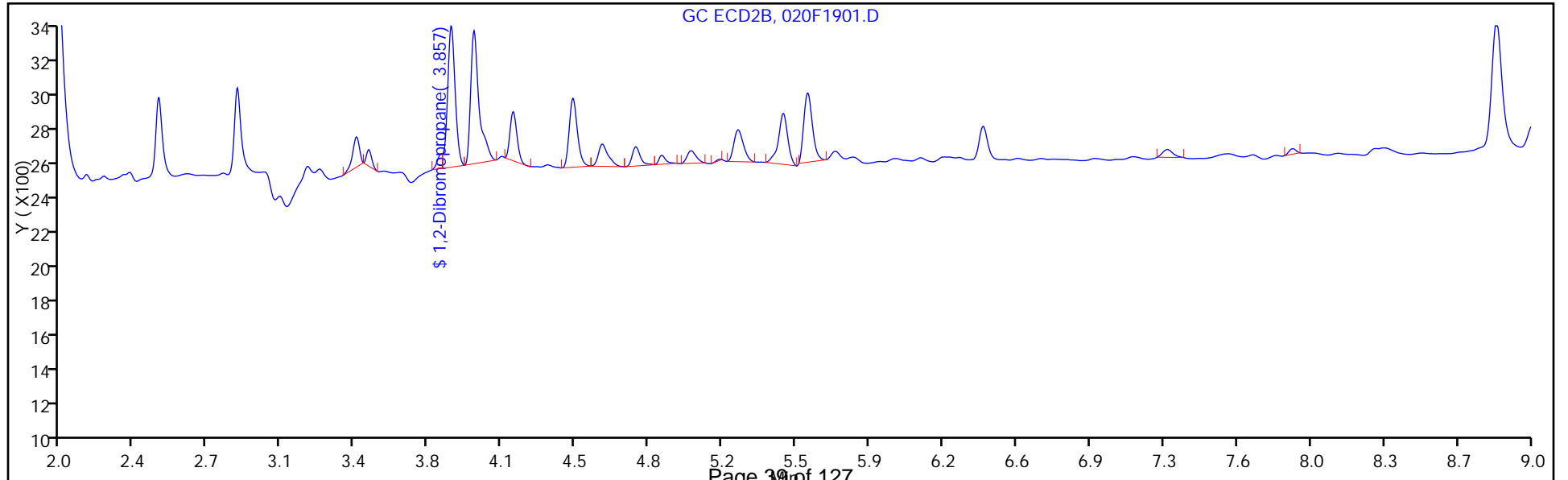
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3 Analy Batch No.: 301315

SDG No.: _____

Instrument ID: SGC_E GC Column: RTX 502.2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Ethylene Dibromide	3.783	3.783	3.783	3.783	3.780	3.780	+++++				3.753 - 3.813	3.782
1,2,3-Trichloropropane	5.443	5.443	5.443	5.443	5.443	5.440	5.440				5.413 - 5.473	5.442
1,2-Dibromo-3-Chloropropane	8.717	8.713	8.713	8.713	8.710	8.710	8.710				8.683 - 8.743	8.712
1,2-Dibromopropane	4.373	4.373	4.373	4.370	4.370	4.370	4.367				4.340 - 4.400	4.371

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-76216-3 Analy Batch No.: 301315

SDG No.: _____

Instrument ID: SGC_E GC Column: RTX 502.2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Ethylene Dibromide	87500 68105	85750 63579	84358 ++++	73980	Lin1	364.652102	65770.9008							0.9930		0.9900
1,2,3-Trichloropropane	12800 11620	13450 10894	13543 10289	12050	Lin1	50.0174007	10732.8912							0.9950		0.9900
1,2-Dibromo-3-Chloropropane	116200 99525	115600 94729	116832 89477	105430	Lin2	218.787998	99452.9463							0.9910		0.9900
1,2-Dibromopropane	63600 57395	61000 53280	67120 50362	61460	Ave		59173.8571			9.9		10.0				

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

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-76216-3 Analy Batch No.: 301315

SDG No.: _____

Instrument ID: SGC_E GC Column: RTX 502.2 ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24205

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7				LVL 6	LVL 7			
Ethylene Dibromide	Lin1	875 18892	1715 +++++	4242	7398	13621	0.0100 0.297	0.0200 +++++	0.0503	0.100	0.200
1,2,3-Trichloropropane	Lin1	128 3237	269 5174	681	1205	2324	0.0100 0.297	0.0200 0.503	0.0503	0.100	0.200
1,2-Dibromo-3-Chloropropane	Lin2	1162 28148	2312 44994	5875	10543	19905	0.0100 0.297	0.0200 0.503	0.0503	0.100	0.200
1,2-Dibromopropane	Ave	636 15984	1220 25181	3356	6146	11479	0.0100 0.300	0.0200 0.500	0.0500	0.100	0.200

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc
Lin2 = Linear 1/conc^2

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\003F0301.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 27-Oct-2015 15:55:10 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD7
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:29 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.780	3.783	-0.003	29349	0.5029	0.4407	
2	3.247	3.250	-0.003	10883	0.5029	0.4444	
						RPD = 0.83	
\$ 2 1,2-Dibromopropane							
1	4.367	4.370	-0.003	25181	0.5000	0.4255	
2	3.860	3.863	-0.003	7920	0.5000	0.4332	
						RPD = 1.79	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	5174	0.5029	0.4774	
2	4.603	4.607	-0.004	2994	0.5029	0.4475	
						RPD = 6.47	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	44994	0.5029	0.4502	
2	7.327	7.330	-0.003	12400	0.5029	0.4725	
						RPD = 4.83	

Reagents:

504ICALWork_00100 Amount Added: 880.00 Units: uL
 504SurrWork_00149 Amount Added: 175.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\003F0301.D

Injection Date: 27-Oct-2015 15:55:10

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD7

Worklist Smp#: 4

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

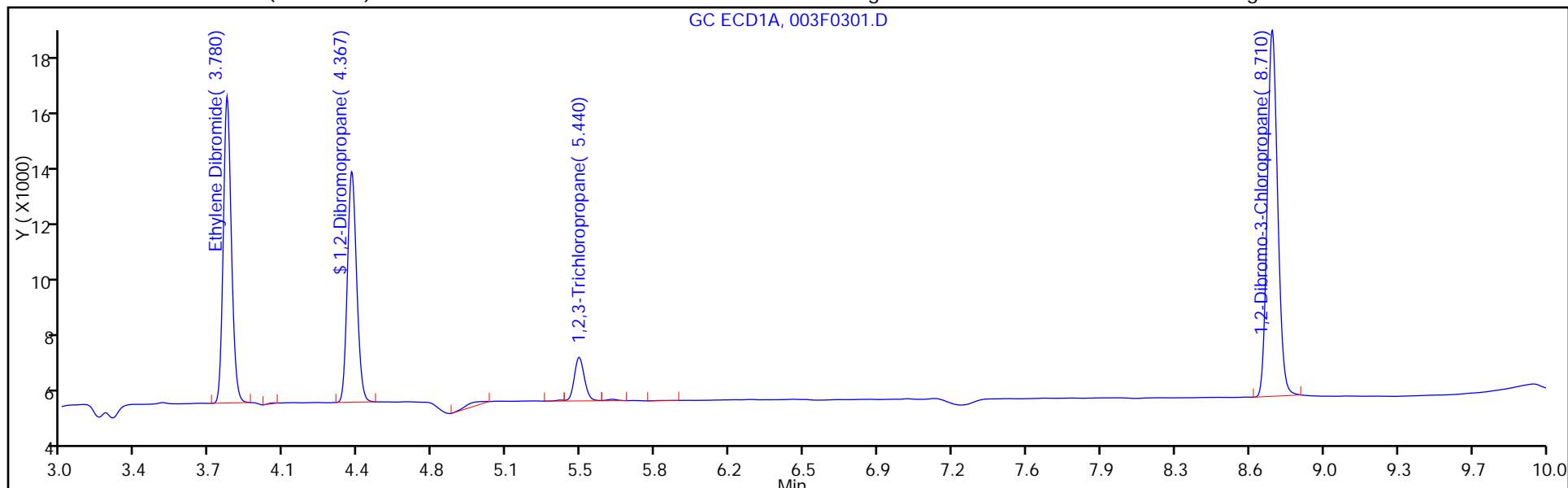
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011_504

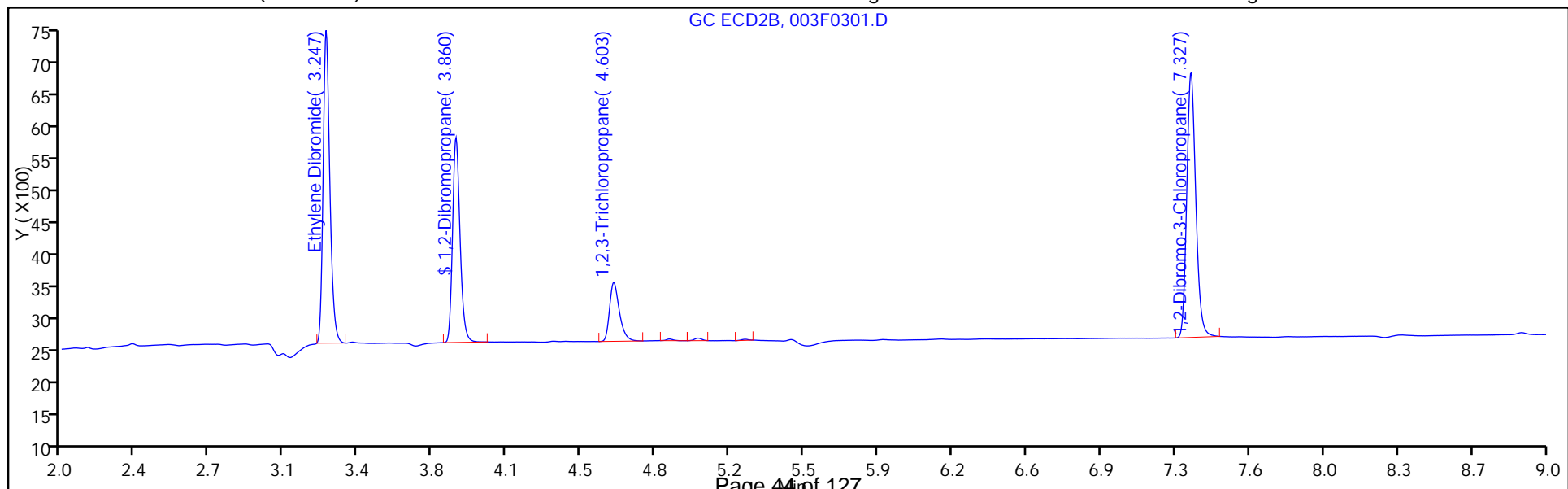
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\004F0401.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 27-Oct-2015 16:14:17 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD6
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:40 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	18892	0.2971	0.2817	
2	3.247	3.250	-0.003	6967	0.2971	0.2829	
						RPD = 0.42	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	15984	0.3000	0.2701	
2	3.860	3.863	-0.003	5034	0.3000	0.2754	
						RPD = 1.92	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	3237	0.2971	0.2969	
2	4.603	4.607	-0.004	1854	0.2971	0.2771	
						RPD = 6.91	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	28148	0.2971	0.2808	
2	7.327	7.330	-0.003	7927	0.2971	0.3003	
						RPD = 6.69	

Reagents:

504ICALWork_00100 Amount Added: 520.00 Units: uL
 504SurrWork_00149 Amount Added: 105.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\004F0401.D

Injection Date: 27-Oct-2015 16:14:17

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD6

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

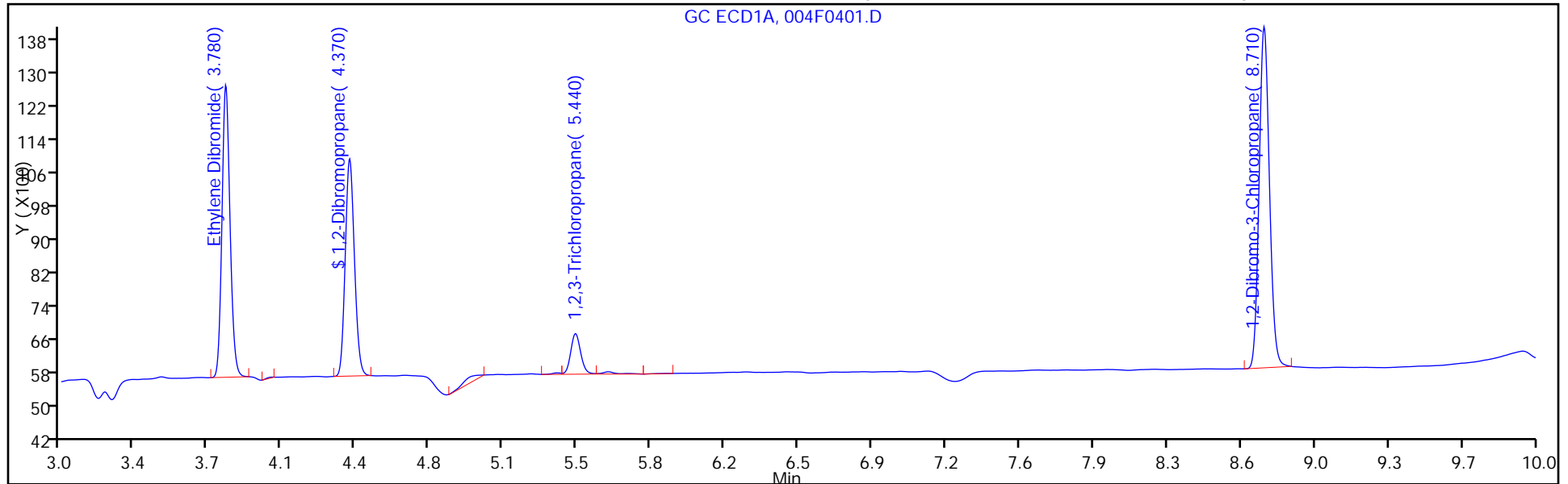
ALS Bottle#: 4

Method: 504.1

Limit Group: GCSV - 8011_504

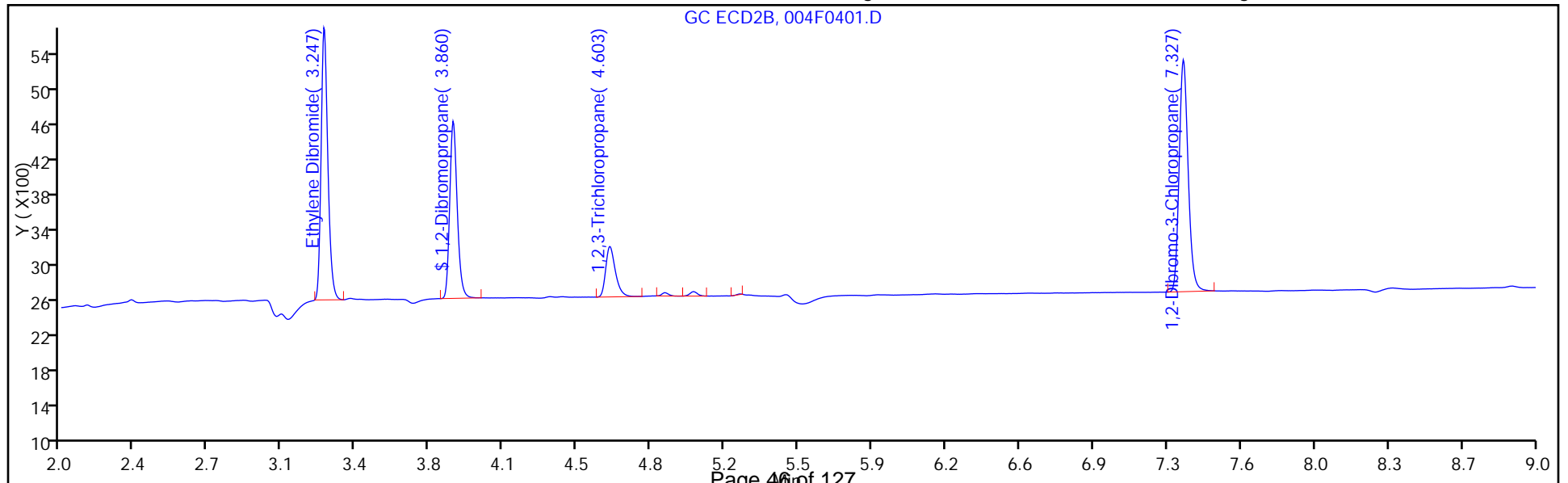
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\005F0501.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 27-Oct-2015 16:33:28 ALS Bottle#: 5 Worklist Smp#: 6
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD5
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:46 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	13621	0.2000	0.2016	
2	3.250	3.250	0.000	4999	0.2000	0.2017	
						RPD = 0.08	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	11479	0.2000	0.1940	
2	3.860	3.863	-0.003	3611	0.2000	0.1975	
						RPD = 1.80	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2324	0.2000	0.2119	
2	4.607	4.607	0.000	1345	0.2000	0.2010	
						RPD = 5.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	19905	0.2000	0.1979	
2	7.327	7.330	-0.003	5620	0.2000	0.2115	
						RPD = 6.60	

Reagents:

504ICALWork_00100 Amount Added: 350.00 Units: uL
 504SurrWork_00149 Amount Added: 70.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\005F0501.D

Injection Date: 27-Oct-2015 16:33:28

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD5

Worklist Smp#: 6

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

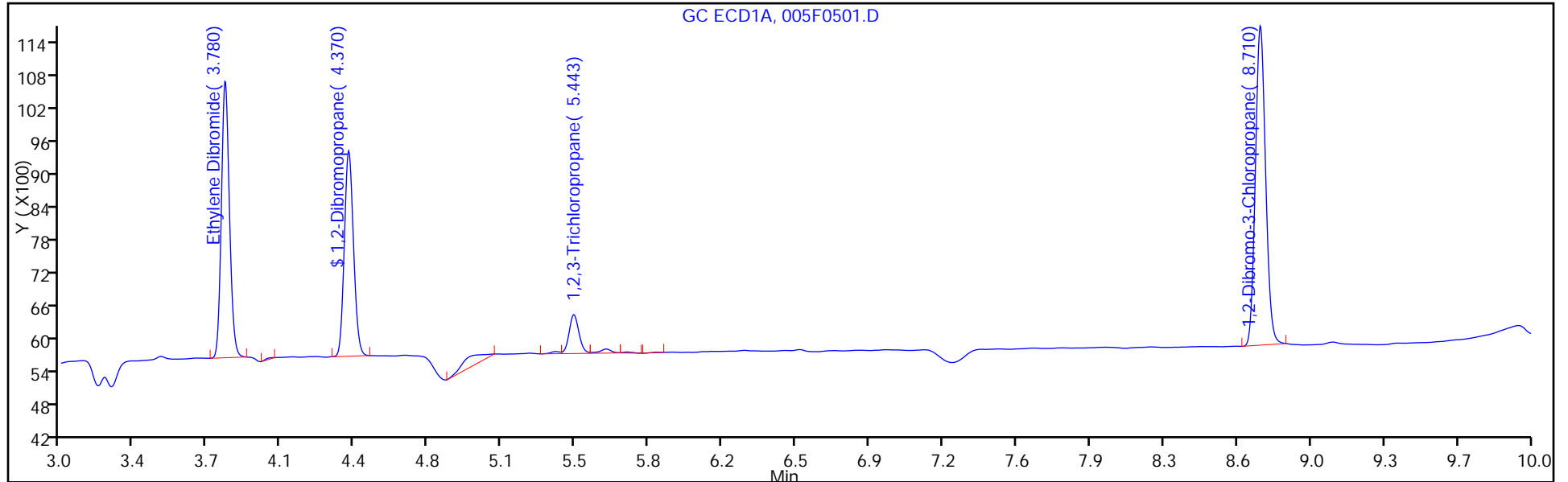
ALS Bottle#: 5

Method: 504.1

Limit Group: GCSV - 8011_504

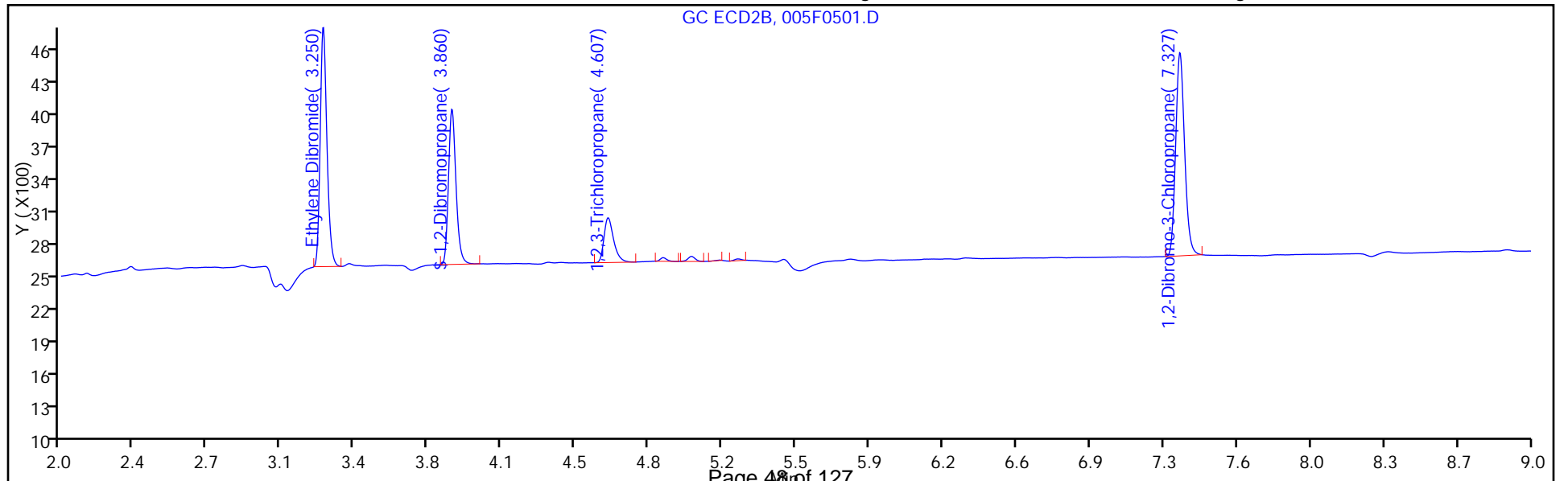
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\006F0601.D
 Lims ID: STD4RT
 Client ID:
 Sample Type: ICRT Calib Level: 4
 Inject. Date: 27-Oct-2015 16:52:30 ALS Bottle#: 6 Worklist Smp#: 7
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD4
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:19 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: cokleyc Date: 28-Oct-2015 12:51:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	7398	0.1000	0.1069	
2	3.250	3.250	0.000	2686	0.1000	0.1063	
						RPD = 0.58	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	6146	0.1000	0.1039	
2	3.863	3.863	0.000	1911	0.1000	0.1045	
						RPD = 0.64	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	1205	0.1000	0.1076	
2	4.607	4.607	0.000	660	0.1000	0.0986	
						RPD = 8.70	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	10543	0.1000	0.1038	
2	7.330	7.330	0.000	2973	0.1000	0.1095	
						RPD = 5.36	

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\006F0601.D

Injection Date: 27-Oct-2015 16:52:30

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD4RT

Worklist Smp#: 7

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

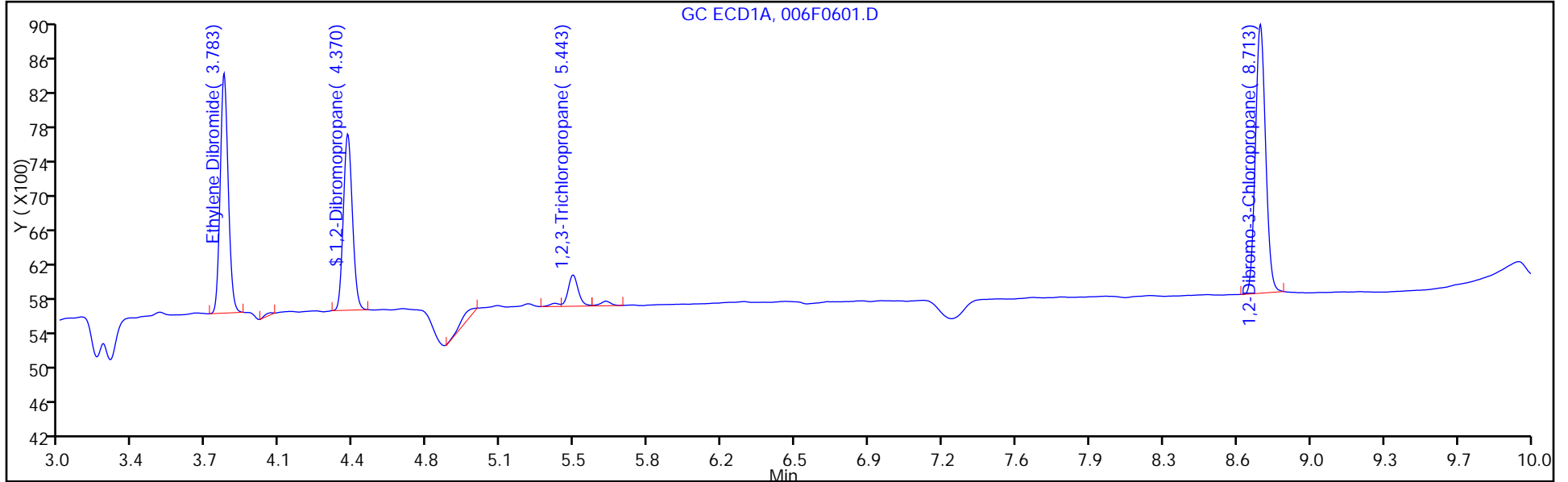
ALS Bottle#: 6

Method: 504.1

Limit Group: GCSV - 8011_504

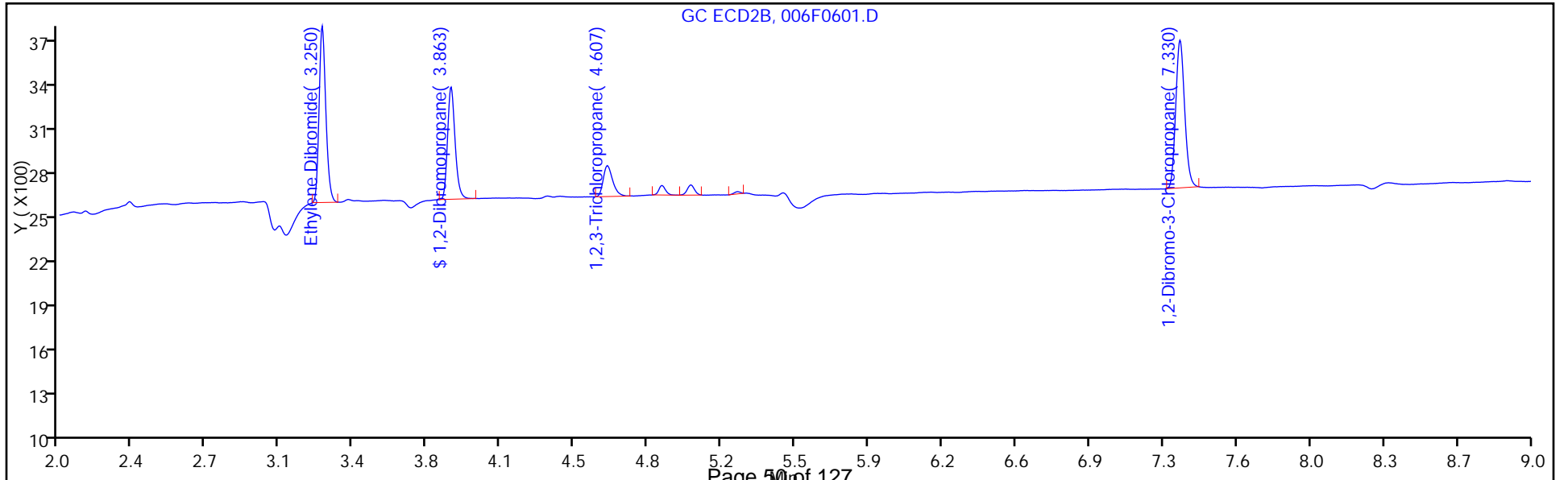
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\007F0701.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 27-Oct-2015 17:11:34 ALS Bottle#: 7 Worklist Smp#: 8
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD3
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:54 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	4242	0.0503	0.0590	
2	3.250	3.250	0.000	1519	0.0503	0.0582	
						RPD = 1.30	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	3356	0.0500	0.0567	
2	3.863	3.863	0.000	1032	0.0500	0.0564	
						RPD = 0.47	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	681	0.0503	0.0588	
2	4.607	4.607	0.000	378	0.0503	0.0565	
						RPD = 3.98	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	5875	0.0503	0.0569	
2	7.330	7.330	0.000	1664	0.0503	0.0591	
						RPD = 3.89	

Reagents:

504ICALWork_00100 Amount Added: 88.00 Units: uL
 504SurrWork_00149 Amount Added: 17.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\007F0701.D

Injection Date: 27-Oct-2015 17:11:34

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD3

Worklist Smp#: 8

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

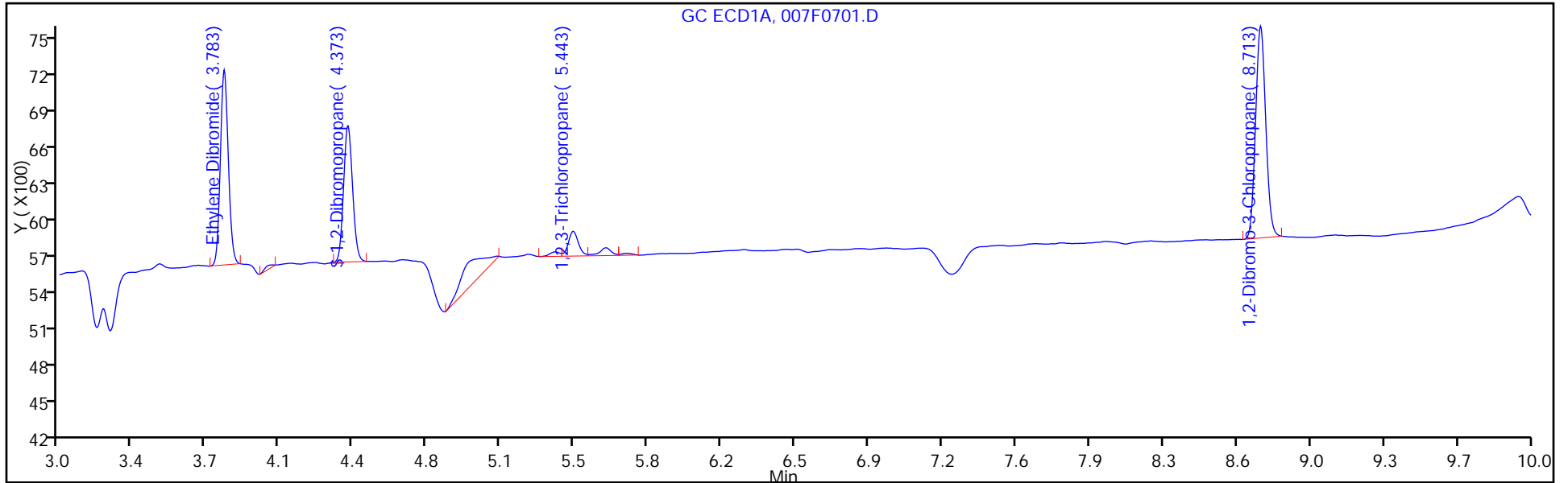
ALS Bottle#: 7

Method: 504.1

Limit Group: GCSV - 8011_504

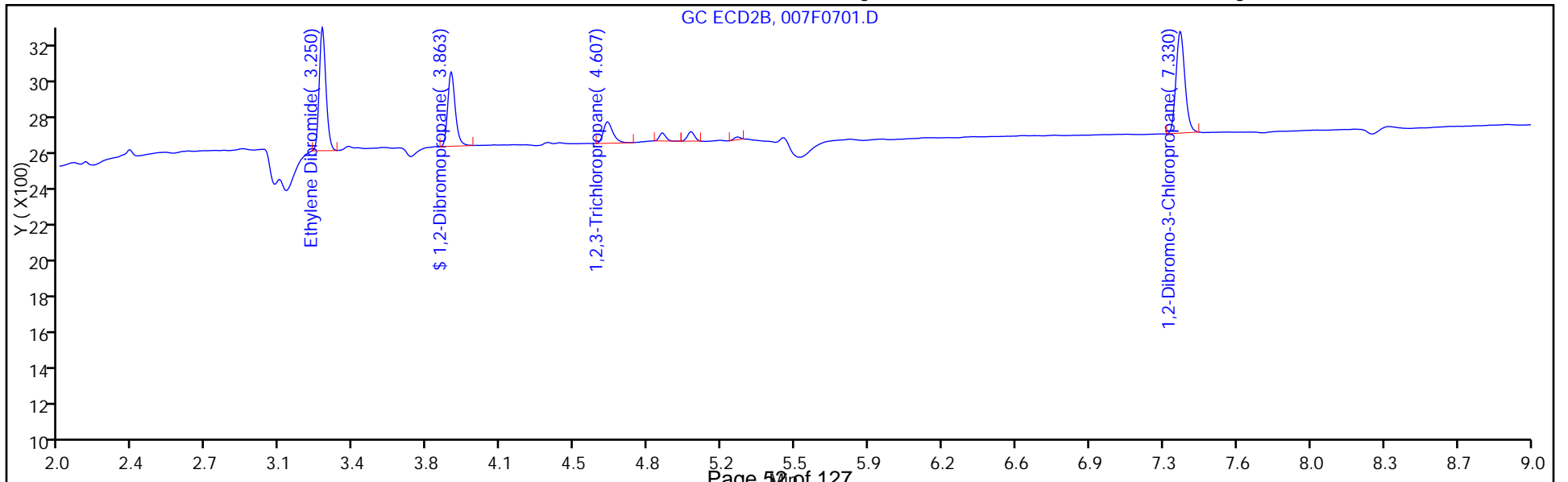
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\008F0801.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 27-Oct-2015 17:30:34 ALS Bottle#: 8 Worklist Smp#: 9
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD2
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:52:01 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	1715	0.0200	0.0205	
2	3.250	3.250	0.000	600	0.0200	0.0203	
						RPD = 1.17	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	1220	0.0200	0.0206	
2	3.863	3.863	0.000	373	0.0200	0.0204	
						RPD = 1.05	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	269	0.0200	0.0204	
2	4.607	4.607	0.000	140	0.0200	0.0209	
						RPD = 2.52	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	2312	0.0200	0.0210	
2	7.333	7.330	0.003	657	0.0200	0.0204	
						RPD = 3.33	

Reagents:

504ICALWork_00100 Amount Added: 35.00 Units: uL
 504SurrWork_00149 Amount Added: 7.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\008F0801.D

Injection Date: 27-Oct-2015 17:30:34

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD2

Worklist Smp#: 9

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

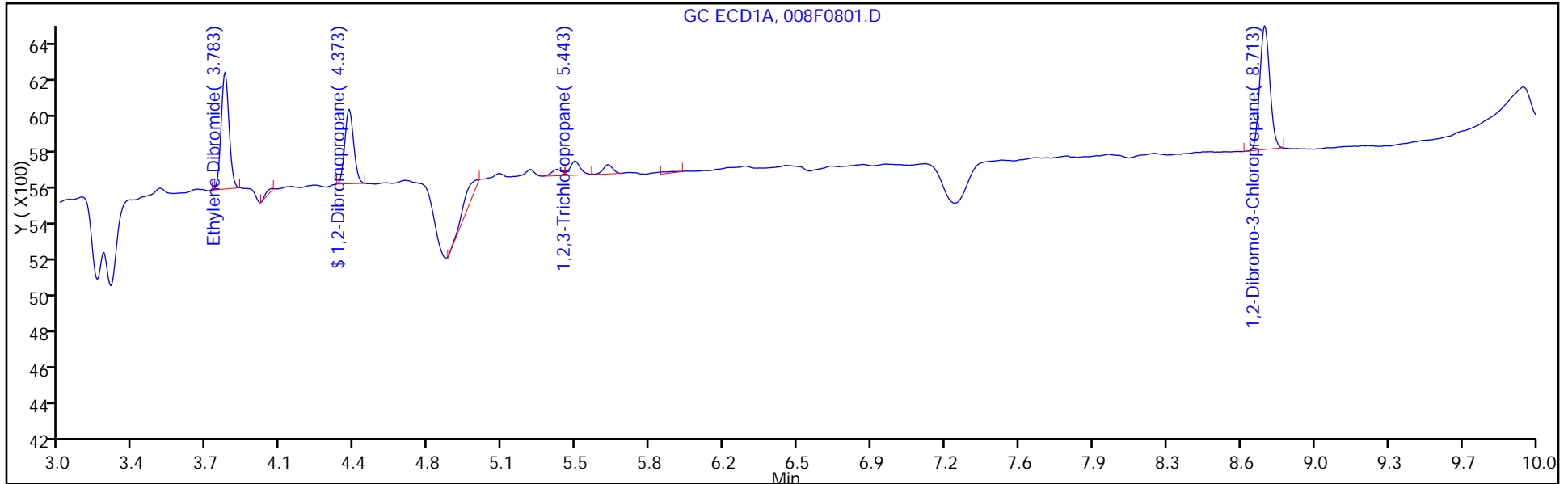
ALS Bottle#: 8

Method: 504.1

Limit Group: GCSV - 8011_504

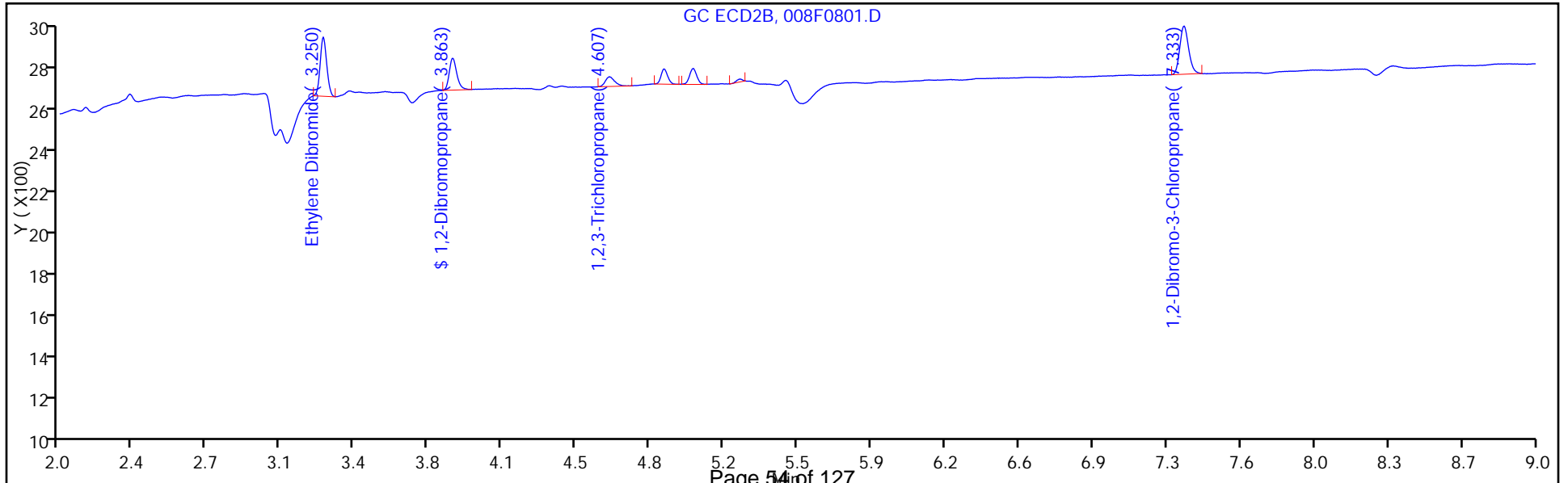
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 27-Oct-2015 17:49:31 ALS Bottle#: 9 Worklist Smp#: 10
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD1
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:52:05 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	875	0.0100	0.007759	
2	3.250	3.250	0.000	303	0.0100	0.008044	
						RPD = 3.60	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	636	0.0100	0.0107	
2	3.863	3.863	0.000	189	0.0100	0.0103	
						RPD = 3.89	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	128	0.0100	0.007266	
2	4.610	4.607	0.003	68	0.0100	0.0102	
						RPD = 33.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.717	8.713	0.004	1162	0.0100	0.009484	
2	7.333	7.330	0.003	311	0.0100	0.007035	
						RPD = 29.65	

Reagents:

504ICALWork_00100 Amount Added: 17.50 Units: uL
 504SurrWork_00149 Amount Added: 3.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Injection Date: 27-Oct-2015 17:49:31

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD1

Worklist Smp#: 10

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

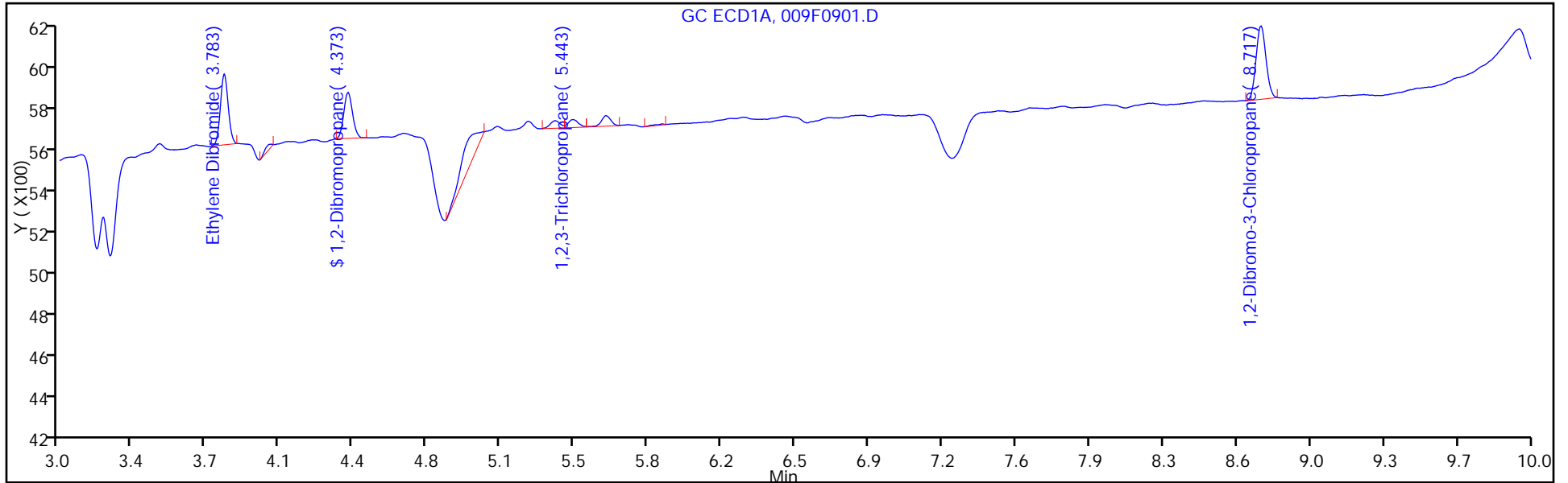
ALS Bottle#: 9

Method: 504.1

Limit Group: GCSV - 8011_504

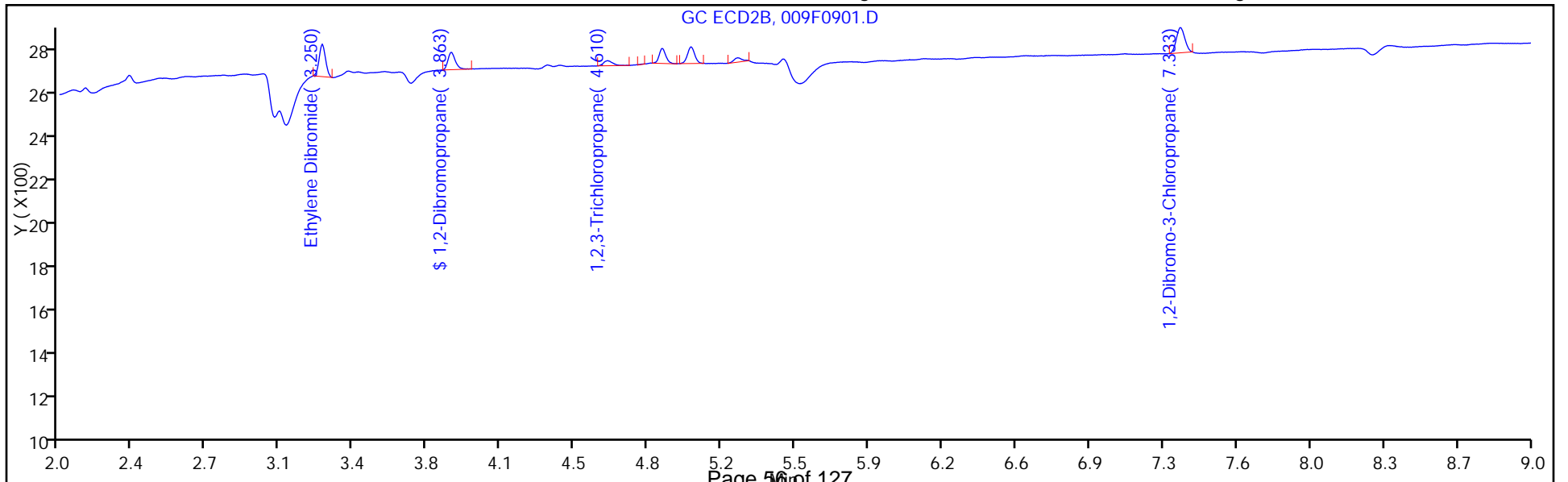
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3 Analy Batch No.: 301315

SDG No.: _____

Instrument ID: SGC_E GC Column: RTX-VRX ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24206

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Ethylene Dibromide	3.250	3.250	3.250	3.250	3.250	3.247	+++++				3.220 - 3.280	3.250
1,2,3-Trichloropropane	4.610	4.607	4.607	4.607	4.607	4.603	4.603				4.577 - 4.637	4.606
1,2-Dibromo-3-Chloropropane	7.333	7.333	7.330	7.330	7.327	7.327	7.327				7.300 - 7.360	7.330
1,2-Dibromopropane	3.863	3.863	3.863	3.863	3.860	3.860	3.860				3.833 - 3.893	3.862

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Denver Job No.: 280-76216-3 Analy Batch No.: 301315

SDG No.: _____

Instrument ID: SGC_E GC Column: RTX-VRX ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24206

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R ² OR COD	#	MIN R ² OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
Ethylene Dibromide	30300 24995	30000 23447	30207 ++++	26860	Lin1	107.943623	24248.0742							0.9940		0.9900
1,2,3-Trichloropropane	6800.0 6725.0	7000.0 6239.4	7517.0 5954.0	6600.0	Ave		6690.77797			7.6		10.0				
1,2-Dibromo-3-Chloropropane	31100 28100	32850 26677	33091 24659	29730	Lin1	128.289327	25971.6561							0.9940		0.9900
1,2-Dibromopropane	18900 18055	18650 16780	20640 15840	19110	Ave		18282.1429			8.7		10.0				

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

FORM VI
GC SEMI VOA BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Denver Job No.: 280-76216-3 Analy Batch No.: 301315

SDG No.: _____

Instrument ID: SGC_E GC Column: RTX-VRX ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/27/2015 15:55 Calibration End Date: 10/27/2015 17:49 Calibration ID: 24206

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 280-301315/10	009F0901.D
Level 2	STD2 280-301315/9	008F0801.D
Level 3	STD3 280-301315/8	007F0701.D
Level 4	STD4RT 280-301315/7	006F0601.D
Level 5	STD5 280-301315/6	005F0501.D
Level 6	STD6 280-301315/5	004F0401.D
Level 7	STD7 280-301315/4	003F0301.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7				LVL 6	LVL 7			
Ethylene Dibromide	Lin1	303 6967	600 ++++	1519	2686	4999	0.0100 0.297	0.0200 ++++	0.0503	0.100	0.200
1,2,3-Trichloropropane	Ave	68 1854	140 2994	378	660	1345	0.0100 0.297	0.0200 0.503	0.0503	0.100	0.200
1,2-Dibromo-3-Chloropropane	Lin1	311 7927	657 12400	1664	2973	5620	0.0100 0.297	0.0200 0.503	0.0503	0.100	0.200
1,2-Dibromopropane	Ave	189 5034	373 7920	1032	1911	3611	0.0100 0.300	0.0200 0.500	0.0500	0.100	0.200

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\003F0301.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 27-Oct-2015 15:55:10 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD7
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:29 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	29349	0.5029	0.4407	
2	3.247	3.250	-0.003	10883	0.5029	0.4444	
						RPD = 0.83	
\$ 2 1,2-Dibromopropane							
1	4.367	4.370	-0.003	25181	0.5000	0.4255	
2	3.860	3.863	-0.003	7920	0.5000	0.4332	
						RPD = 1.79	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	5174	0.5029	0.4774	
2	4.603	4.607	-0.004	2994	0.5029	0.4475	
						RPD = 6.47	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	44994	0.5029	0.4502	
2	7.327	7.330	-0.003	12400	0.5029	0.4725	
						RPD = 4.83	

Reagents:

504ICALWork_00100 Amount Added: 880.00 Units: uL
 504SurrWork_00149 Amount Added: 175.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\003F0301.D

Injection Date: 27-Oct-2015 15:55:10

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD7

Worklist Smp#: 4

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

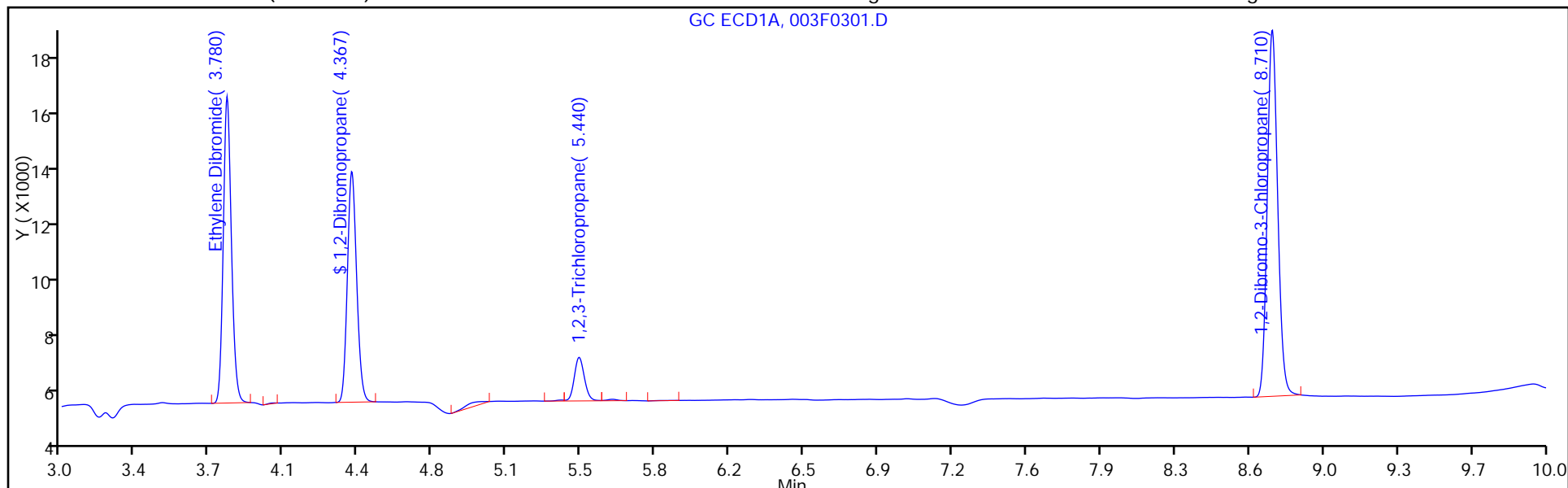
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011_504

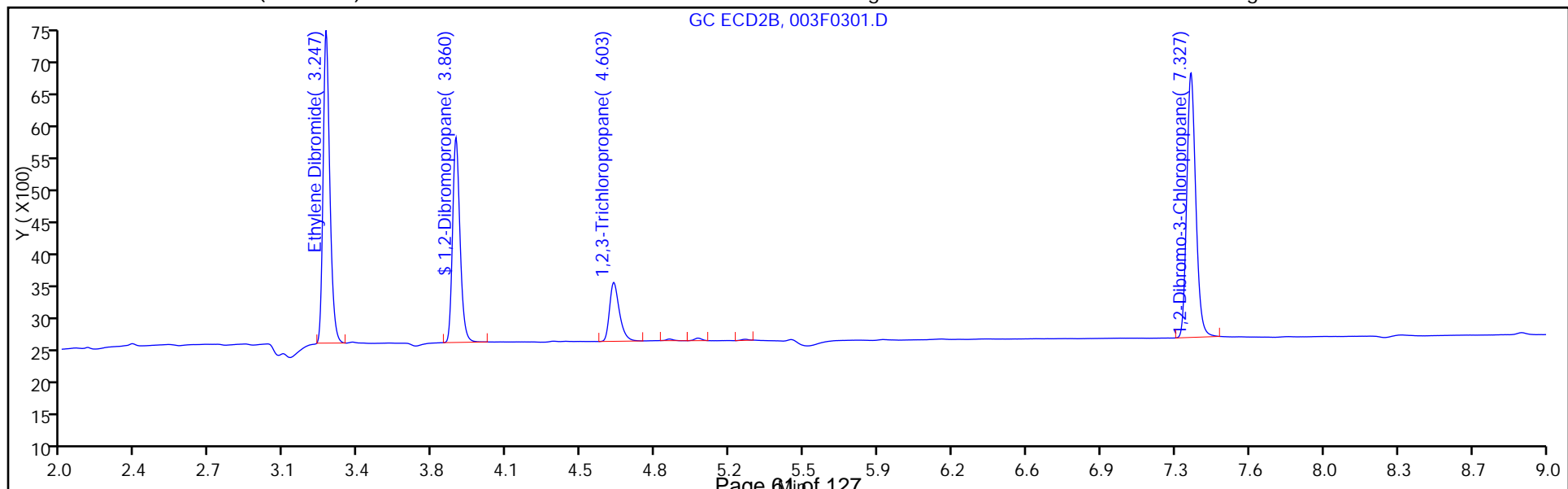
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\004F0401.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 27-Oct-2015 16:14:17 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD6
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:40 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	18892	0.2971	0.2817	
2	3.247	3.250	-0.003	6967	0.2971	0.2829	
						RPD = 0.42	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	15984	0.3000	0.2701	
2	3.860	3.863	-0.003	5034	0.3000	0.2754	
						RPD = 1.92	
3 1,2,3-Trichloropropane							
1	5.440	5.443	-0.003	3237	0.2971	0.2969	
2	4.603	4.607	-0.004	1854	0.2971	0.2771	
						RPD = 6.91	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	28148	0.2971	0.2808	
2	7.327	7.330	-0.003	7927	0.2971	0.3003	
						RPD = 6.69	

Reagents:

504ICALWork_00100 Amount Added: 520.00 Units: uL
 504SurrWork_00149 Amount Added: 105.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\004F0401.D

Injection Date: 27-Oct-2015 16:14:17

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD6

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

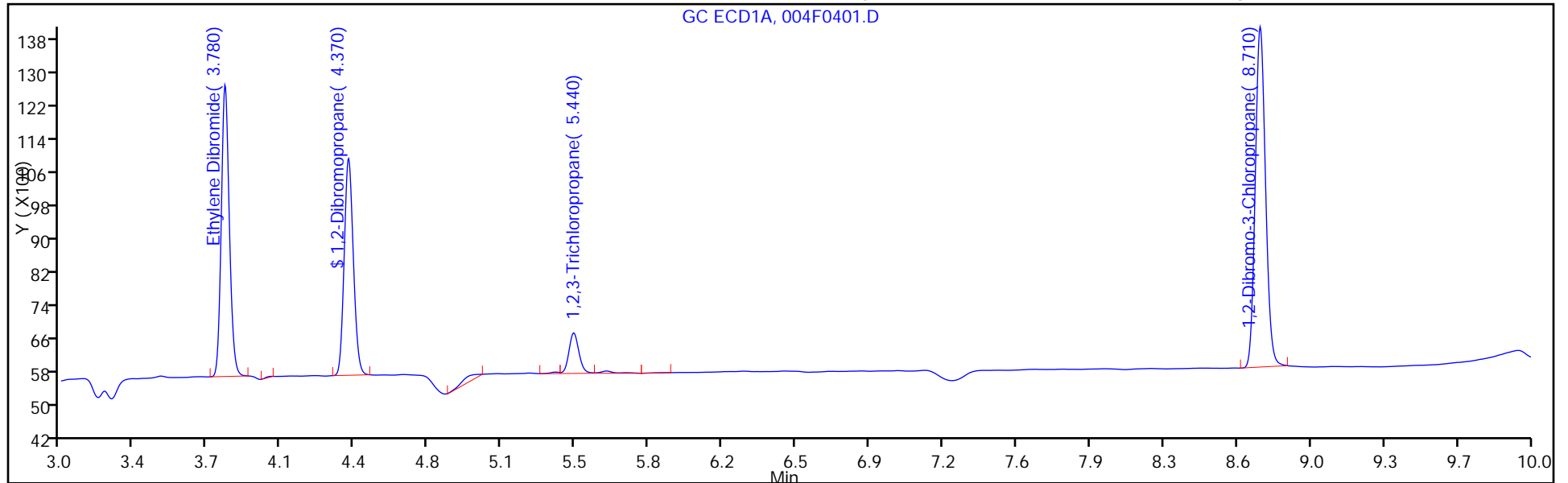
ALS Bottle#: 4

Method: 504.1

Limit Group: GCSV - 8011_504

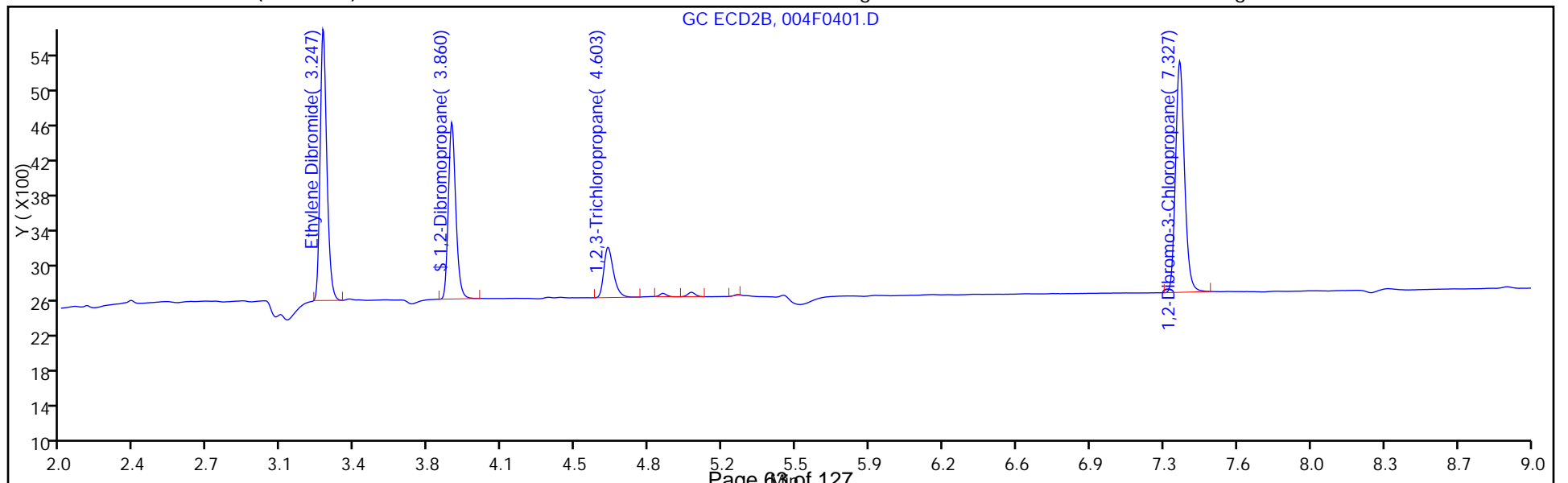
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\005F0501.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 27-Oct-2015 16:33:28 ALS Bottle#: 5 Worklist Smp#: 6
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD5
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:46 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.783	-0.003	13621	0.2000	0.2016	
2	3.250	3.250	0.000	4999	0.2000	0.2017	
						RPD = 0.08	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	11479	0.2000	0.1940	
2	3.860	3.863	-0.003	3611	0.2000	0.1975	
						RPD = 1.80	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2324	0.2000	0.2119	
2	4.607	4.607	0.000	1345	0.2000	0.2010	
						RPD = 5.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.710	8.713	-0.003	19905	0.2000	0.1979	
2	7.327	7.330	-0.003	5620	0.2000	0.2115	
						RPD = 6.60	

Reagents:

504ICALWork_00100 Amount Added: 350.00 Units: uL
 504SurrWork_00149 Amount Added: 70.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\005F0501.D

Injection Date: 27-Oct-2015 16:33:28

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD5

Worklist Smp#: 6

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

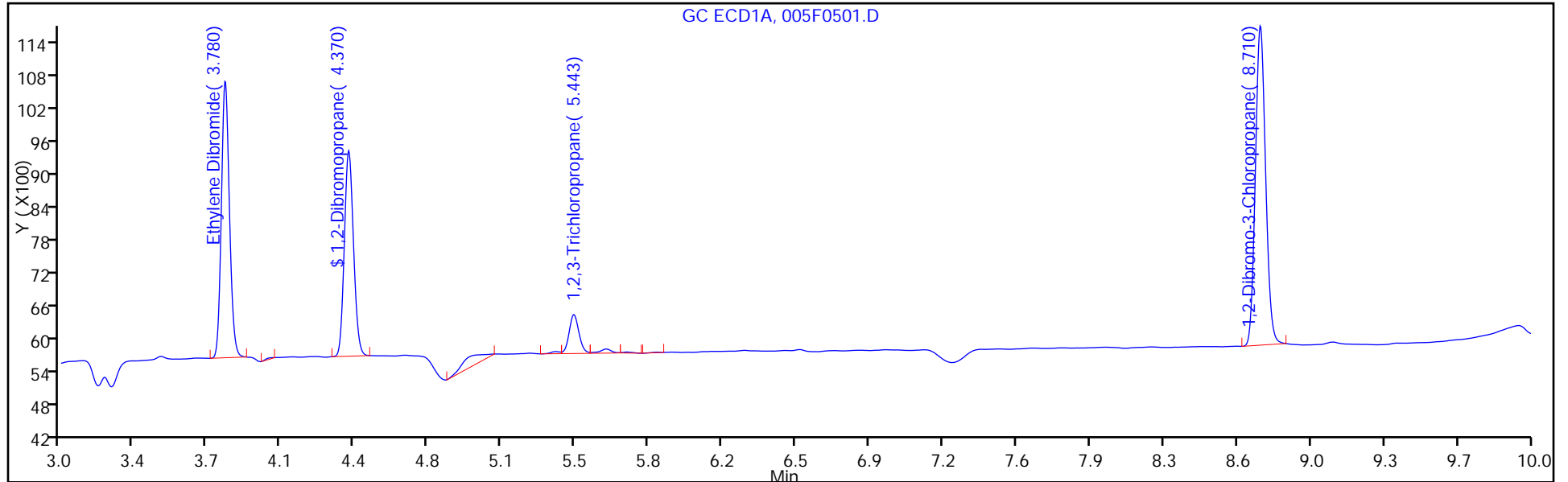
ALS Bottle#: 5

Method: 504.1

Limit Group: GCSV - 8011_504

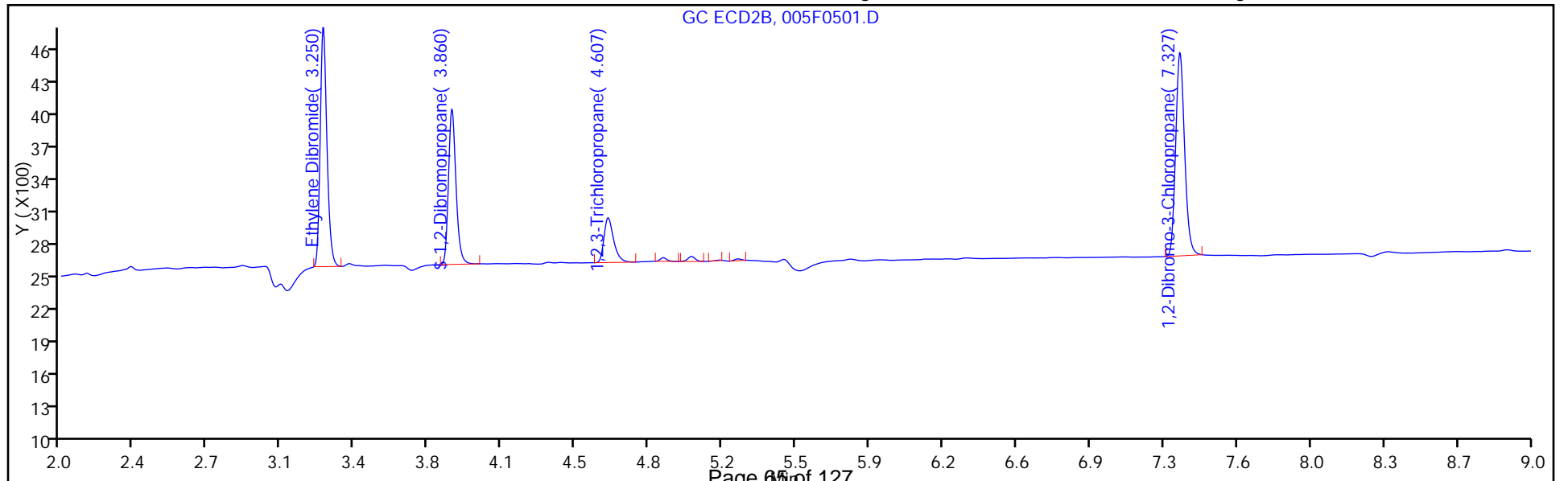
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\006F0601.D
Lims ID: STD4RT
Client ID:
Sample Type: ICRT Calib Level: 4
Inject. Date: 27-Oct-2015 16:52:30 ALS Bottle#: 6 Worklist Smp#: 7
Injection Vol: 3.0 ul Dil. Factor: 1.0000
Sample Info: STD4
Operator ID: EER Instrument ID: SGC_E
Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
Limit Group: GCSV - 8011_504
Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
Last Update: 28-Oct-2015 12:51:19 Calib Date: 27-Oct-2015 17:49:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
Process Host: XAWRK024

First Level Reviewer: cokleyc Date: 28-Oct-2015 12:51:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	7398	0.1000	0.1069	
2	3.250	3.250	0.000	2686	0.1000	0.1063	
						RPD = 0.58	
\$ 2 1,2-Dibromopropane							
1	4.370	4.370	0.000	6146	0.1000	0.1039	
2	3.863	3.863	0.000	1911	0.1000	0.1045	
						RPD = 0.64	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	1205	0.1000	0.1076	
2	4.607	4.607	0.000	660	0.1000	0.0986	
						RPD = 8.70	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	10543	0.1000	0.1038	
2	7.330	7.330	0.000	2973	0.1000	0.1095	
						RPD = 5.36	

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\006F0601.D

Injection Date: 27-Oct-2015 16:52:30

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD4RT

Worklist Smp#: 7

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

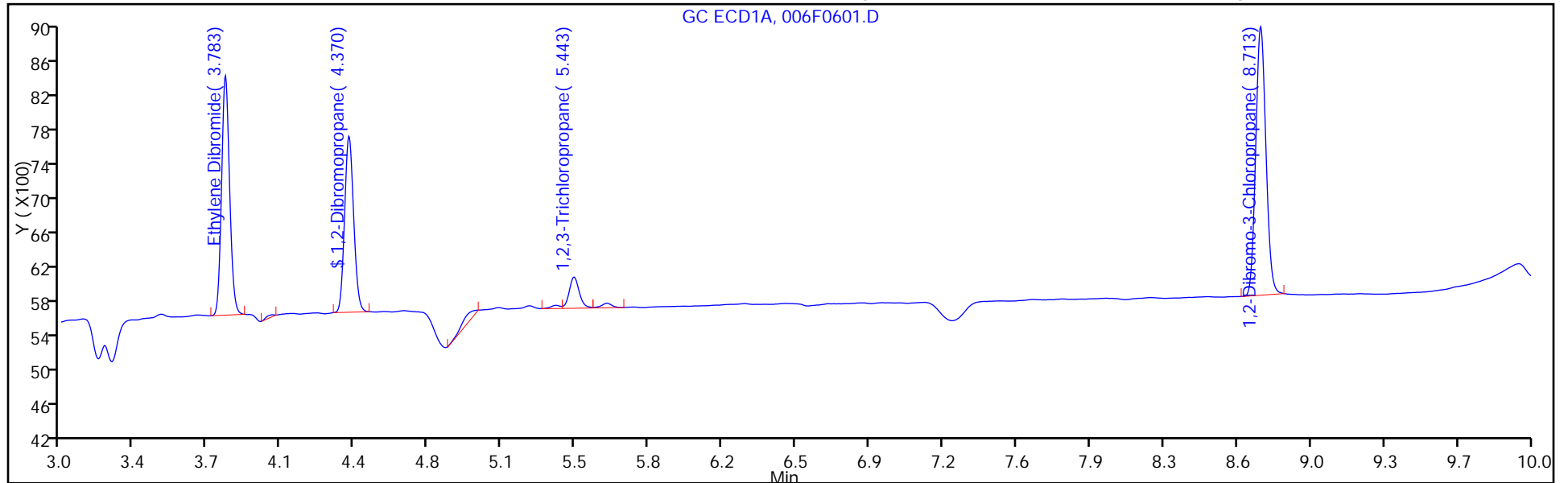
ALS Bottle#: 6

Method: 504.1

Limit Group: GCSV - 8011_504

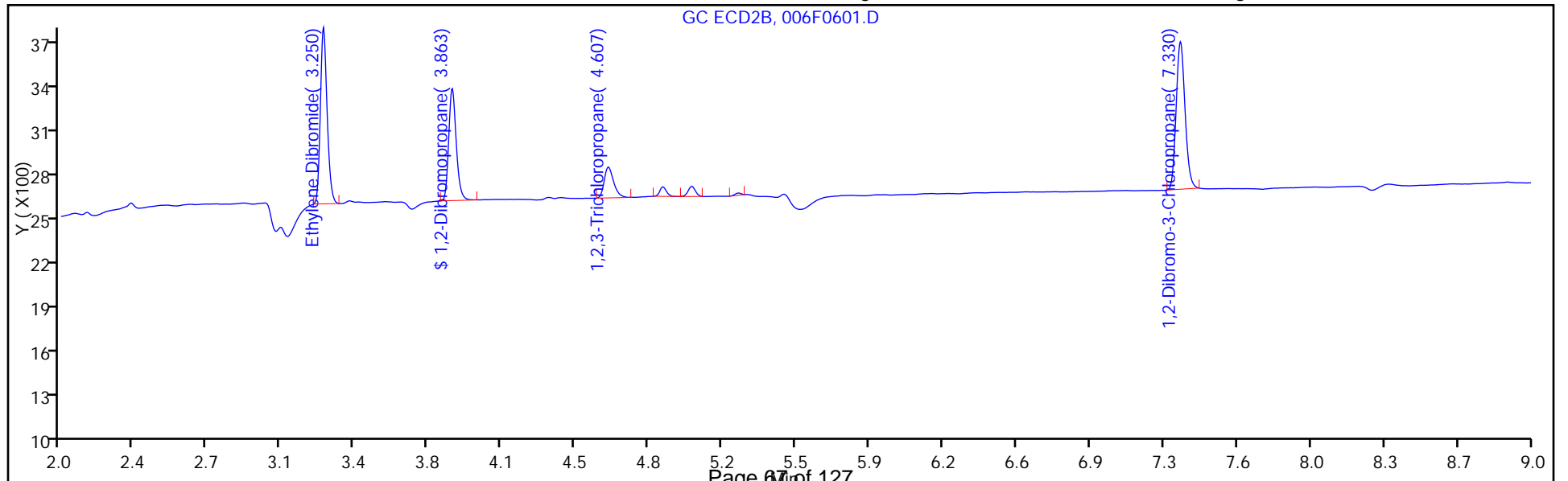
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\007F0701.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 27-Oct-2015 17:11:34 ALS Bottle#: 7 Worklist Smp#: 8
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD3
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:51:54 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:45

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	4242	0.0503	0.0590	
2	3.250	3.250	0.000	1519	0.0503	0.0582	
						RPD = 1.30	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	3356	0.0500	0.0567	
2	3.863	3.863	0.000	1032	0.0500	0.0564	
						RPD = 0.47	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	681	0.0503	0.0588	
2	4.607	4.607	0.000	378	0.0503	0.0565	
						RPD = 3.98	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	5875	0.0503	0.0569	
2	7.330	7.330	0.000	1664	0.0503	0.0591	
						RPD = 3.89	

Reagents:

504ICALWork_00100 Amount Added: 88.00 Units: uL
 504SurrWork_00149 Amount Added: 17.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\007F0701.D

Injection Date: 27-Oct-2015 17:11:34

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD3

Worklist Smp#: 8

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

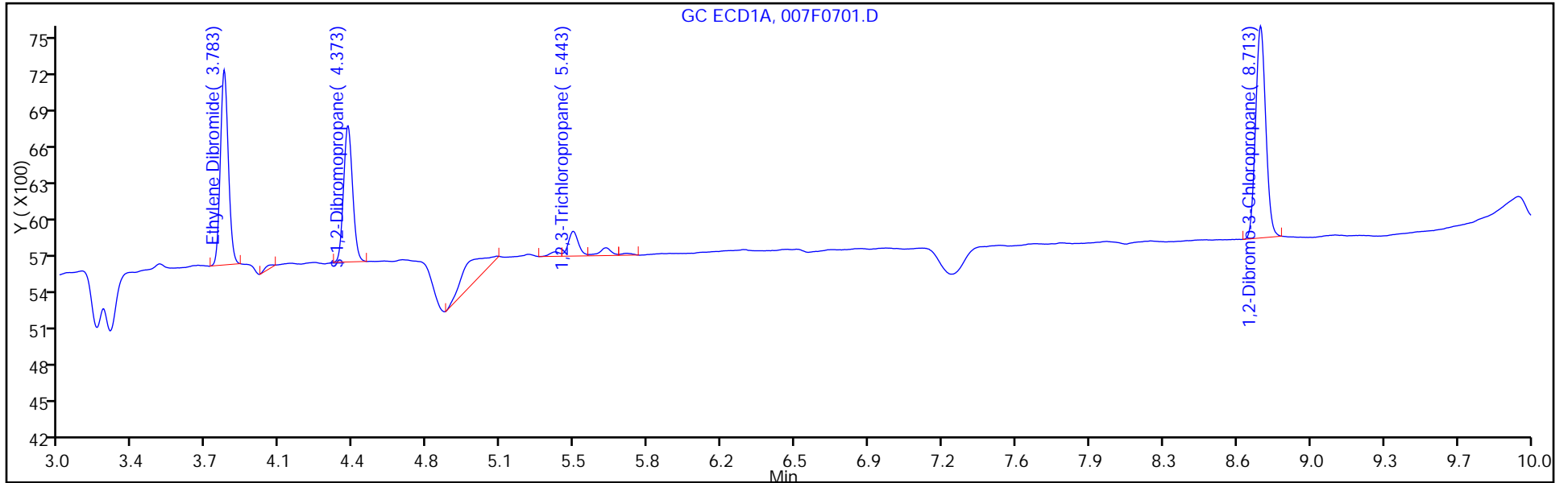
ALS Bottle#: 7

Method: 504.1

Limit Group: GCSV - 8011_504

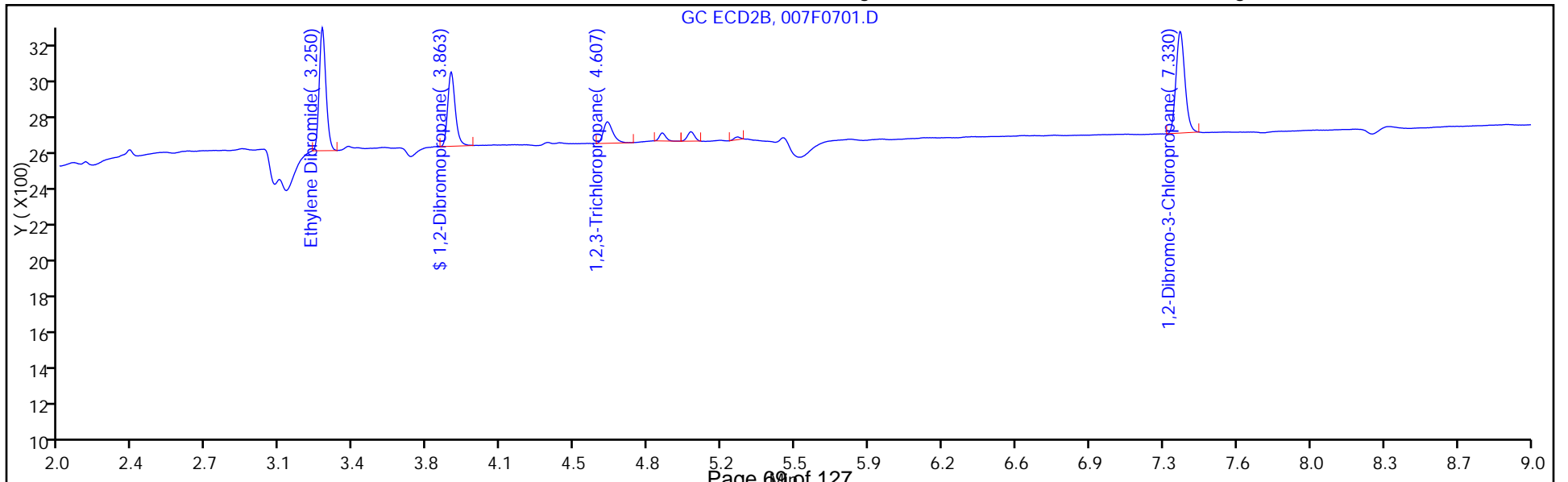
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\008F0801.D
Lims ID: STD2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 27-Oct-2015 17:30:34 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 3.0 ul Dil. Factor: 1.0000
Sample Info: STD2
Operator ID: EER Instrument ID: SGC_E
Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
Limit Group: GCSV - 8011_504
Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
Last Update: 28-Oct-2015 12:52:01 Calib Date: 27-Oct-2015 17:49:31
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:05:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide

1	3.783	3.783	0.000	1715	0.0200	0.0205	
2	3.250	3.250	0.000	600	0.0200	0.0203	

RPD = 1.17

\$ 2 1,2-Dibromopropane

1	4.373	4.370	0.003	1220	0.0200	0.0206	
2	3.863	3.863	0.000	373	0.0200	0.0204	

RPD = 1.05

3 1,2,3-Trichloropropane

1	5.443	5.443	0.000	269	0.0200	0.0204	
2	4.607	4.607	0.000	140	0.0200	0.0209	

RPD = 2.52

4 1,2-Dibromo-3-Chloropropane

1	8.713	8.713	0.000	2312	0.0200	0.0210	
2	7.333	7.330	0.003	657	0.0200	0.0204	

RPD = 3.33

Reagents:

504ICALWork_00100 Amount Added: 35.00 Units: uL
504SurrWork_00149 Amount Added: 7.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\008F0801.D

Injection Date: 27-Oct-2015 17:30:34

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD2

Worklist Smp#: 9

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

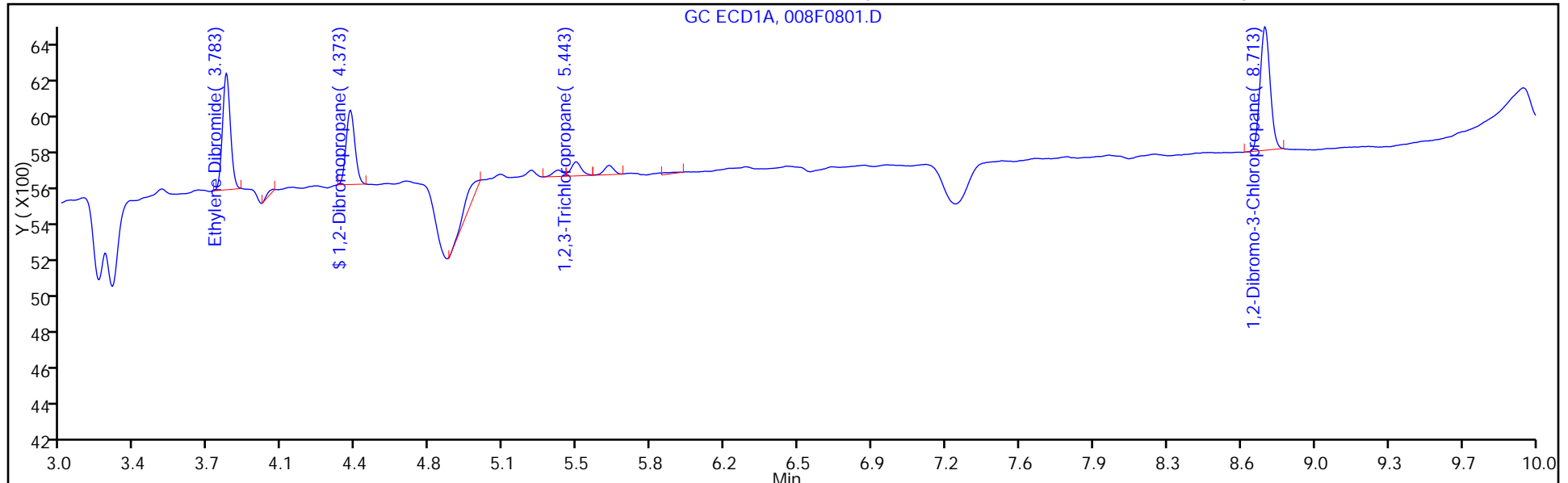
ALS Bottle#: 8

Method: 504.1

Limit Group: GCSV - 8011_504

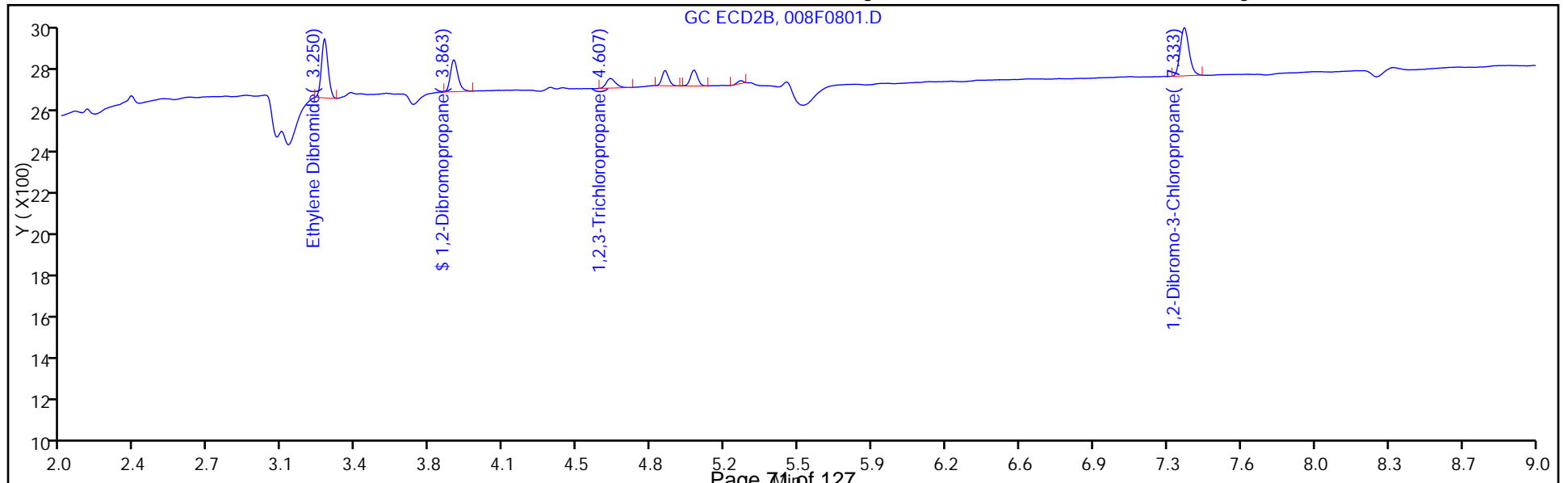
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 27-Oct-2015 17:49:31 ALS Bottle#: 9 Worklist Smp#: 10
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: STD1
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 12:52:05 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:30

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	875	0.0100	0.007759	
2	3.250	3.250	0.000	303	0.0100	0.008044	
						RPD = 3.60	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	636	0.0100	0.0107	
2	3.863	3.863	0.000	189	0.0100	0.0103	
						RPD = 3.89	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	128	0.0100	0.007266	
2	4.610	4.607	0.003	68	0.0100	0.0102	
						RPD = 33.25	
4 1,2-Dibromo-3-Chloropropane							
1	8.717	8.713	0.004	1162	0.0100	0.009484	
2	7.333	7.330	0.003	311	0.0100	0.007035	
						RPD = 29.65	

Reagents:

504ICALWork_00100 Amount Added: 17.50 Units: uL
 504SurrWork_00149 Amount Added: 3.50 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Injection Date: 27-Oct-2015 17:49:31

Instrument ID: SGC_E

Operator ID: EER

Lims ID: STD1

Worklist Smp#: 10

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

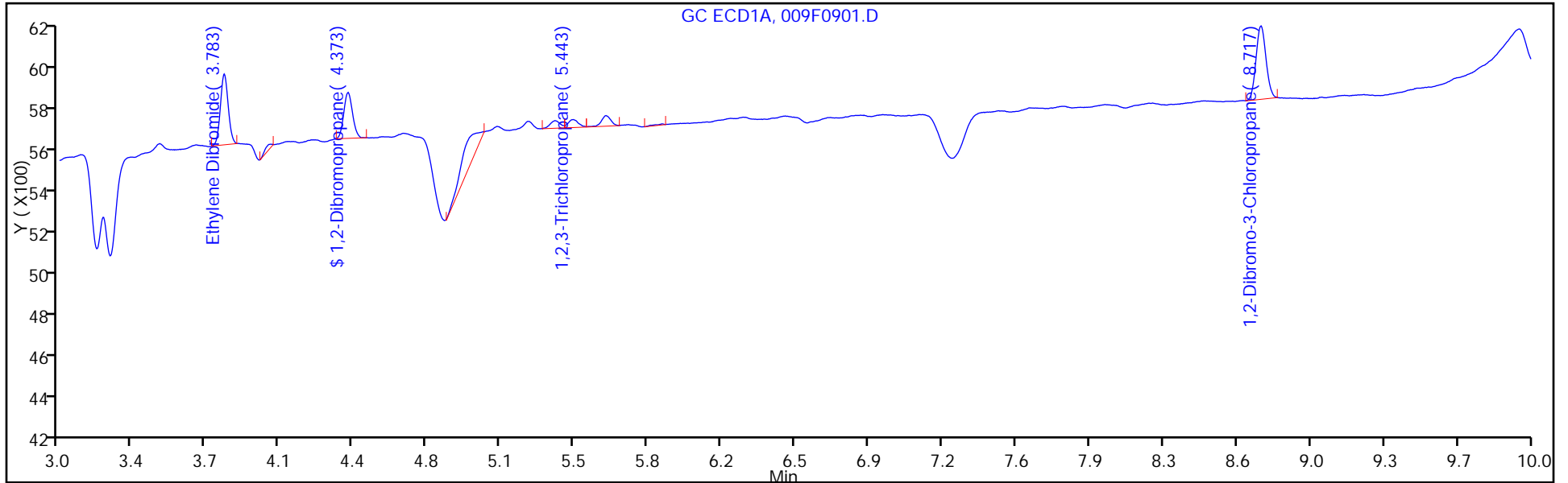
ALS Bottle#: 9

Method: 504.1

Limit Group: GCSV - 8011_504

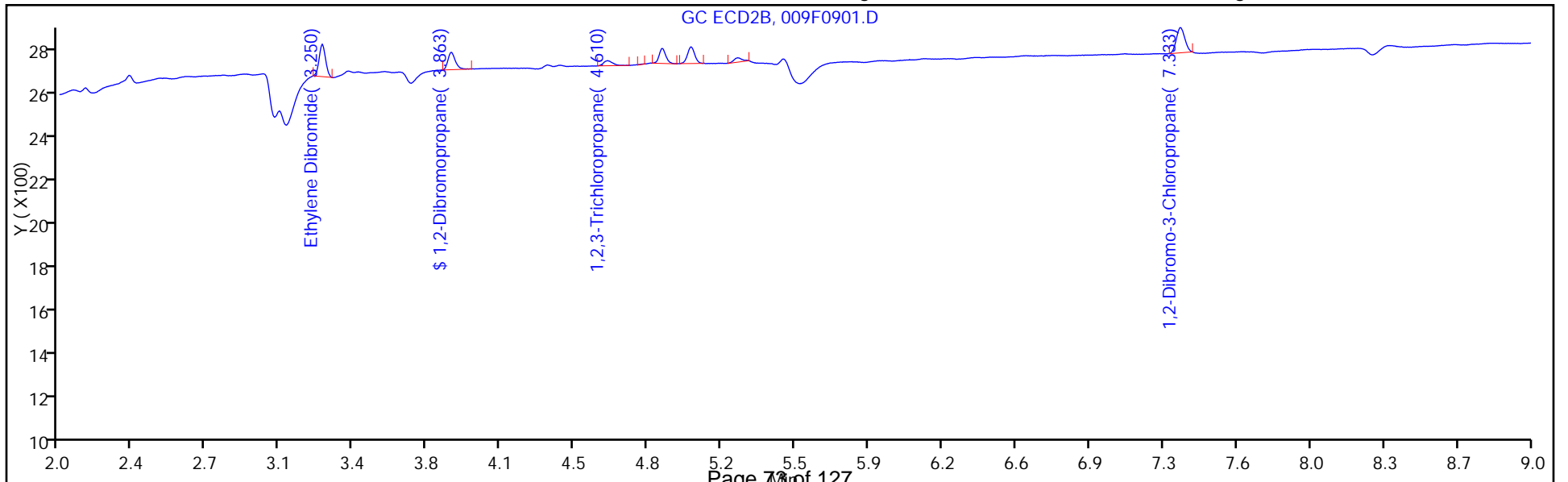
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 010F1001.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		64940		0.241	0.250	-3.5	20.0
1,2,3-Trichloropropane	Lin1		11584		0.265	0.250	6.1	20.0
1,2-Dibromo-3-Chloropropane	Lin2		94204		0.235	0.250	-6.2	20.0
1,2-Dibromopropane	Ave	59174	61340		0.104	0.100	3.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 010F1001.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.78	3.75	3.81
1,2,3-Trichloropropane	5.44	5.41	5.47
1,2-Dibromo-3-Chloropropane	8.71	8.68	8.74
1,2-Dibromopropane	4.37	4.34	4.40

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\010F1001.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 27-Oct-2015 18:08:26 ALS Bottle#: 10 Worklist Smp#: 11
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 14:22:06 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	16235	0.2500	0.2413	
2	3.250	3.250	0.000	5982	0.2500	0.2422	
						RPD = 0.39	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	6134	0.1000	0.1037	
2	3.863	3.863	0.000	1916	0.1000	0.1048	
						RPD = 1.09	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2896	0.2500	0.2652	
2	4.607	4.607	0.000	1656	0.2500	0.2475	
						RPD = 6.89	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	23551	0.2500	0.2346	
2	7.330	7.330	0.000	6666	0.2500	0.2517	
						RPD = 7.04	

Reagents:

504SurrWork_00149 Amount Added: 35.00 Units: uL
 504LCSWork_00050 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\010F1001.D

Injection Date: 27-Oct-2015 18:08:26

Instrument ID: SGC_E

Operator ID: EER

Lims ID: ICV

Worklist Smp#: 11

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

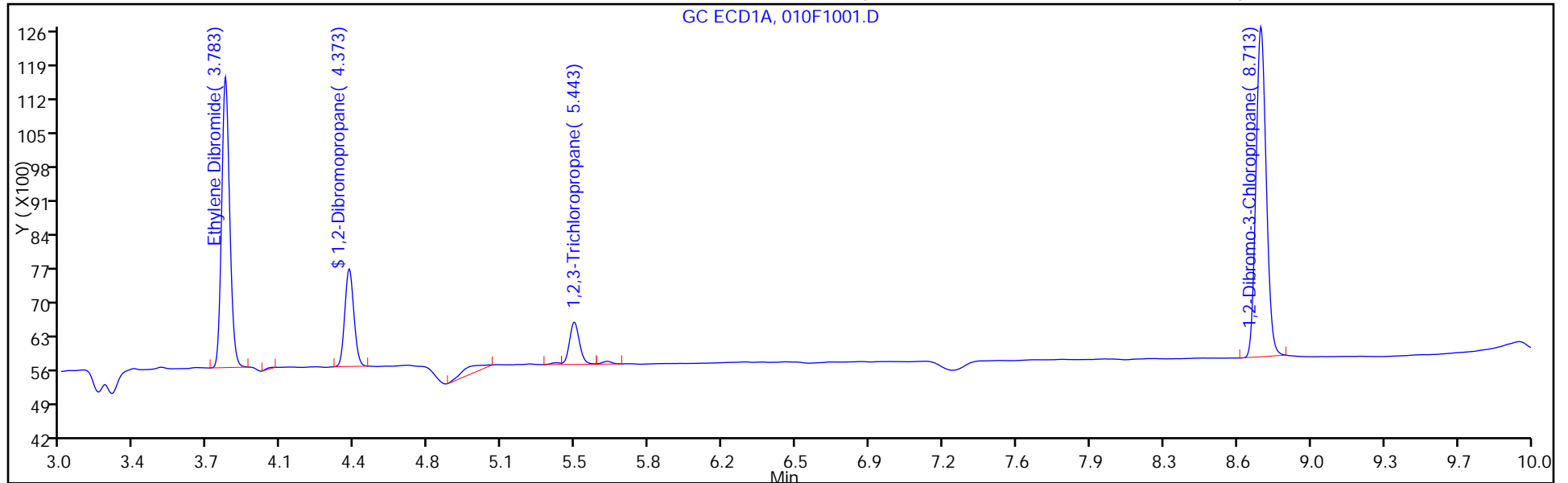
ALS Bottle#: 10

Method: 504.1

Limit Group: GCSV - 8011_504

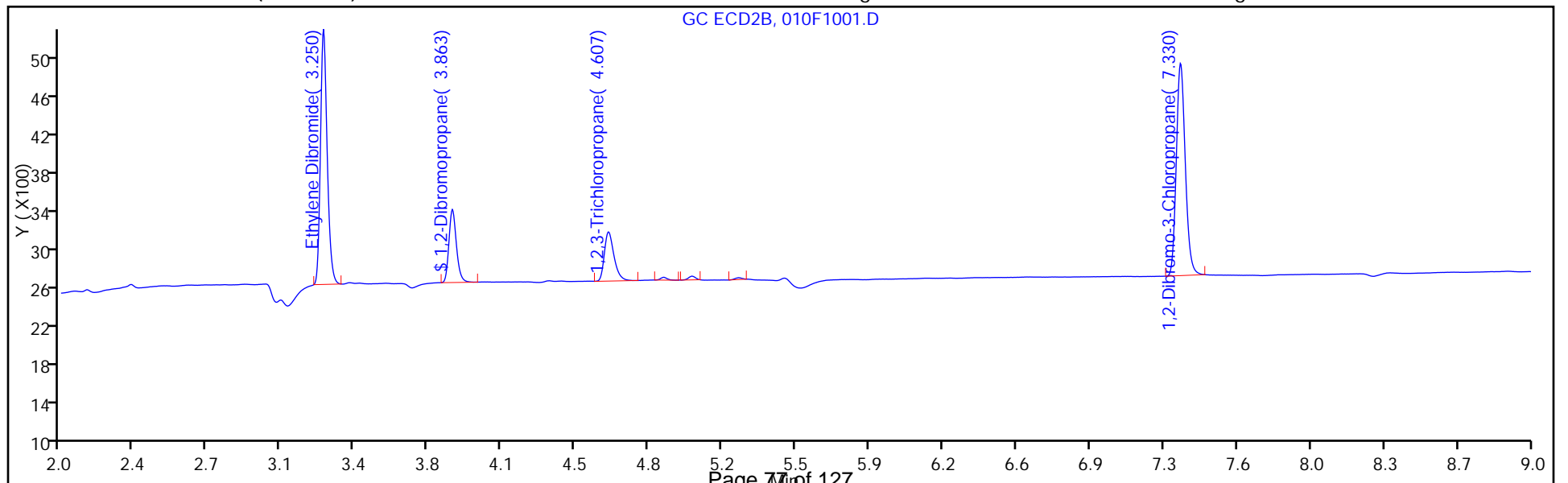
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 010F1001.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		23928		0.242	0.250	-3.1	20.0
1,2,3-Trichloropropane	Ave	6691	6624		0.248	0.250	-1.0	20.0
1,2-Dibromo-3-Chloropropane	Lin1		26664		0.252	0.250	0.7	20.0
1,2-Dibromopropane	Ave	18282	19160		0.105	0.100	4.8	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: ICV 280-301315/11 Calibration Date: 10/27/2015 18:08
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 010F1001.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.25	3.22	3.28
1,2,3-Trichloropropane	4.61	4.58	4.64
1,2-Dibromo-3-Chloropropane	7.33	7.30	7.36
1,2-Dibromopropane	3.86	3.83	3.89

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\010F1001.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 27-Oct-2015 18:08:26 ALS Bottle#: 10 Worklist Smp#: 11
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Operator ID: EER Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 28-Oct-2015 14:22:06 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK024

First Level Reviewer: redmaner Date: 28-Oct-2015 08:06:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.783	3.783	0.000	16235	0.2500	0.2413	
2	3.250	3.250	0.000	5982	0.2500	0.2422	
						RPD = 0.39	
\$ 2 1,2-Dibromopropane							
1	4.373	4.370	0.003	6134	0.1000	0.1037	
2	3.863	3.863	0.000	1916	0.1000	0.1048	
						RPD = 1.09	
3 1,2,3-Trichloropropane							
1	5.443	5.443	0.000	2896	0.2500	0.2652	
2	4.607	4.607	0.000	1656	0.2500	0.2475	
						RPD = 6.89	
4 1,2-Dibromo-3-Chloropropane							
1	8.713	8.713	0.000	23551	0.2500	0.2346	
2	7.330	7.330	0.000	6666	0.2500	0.2517	
						RPD = 7.04	

Reagents:

504SurrWork_00149 Amount Added: 35.00 Units: uL
 504LCSWork_00050 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\010F1001.D

Injection Date: 27-Oct-2015 18:08:26

Instrument ID: SGC_E

Operator ID: EER

Lims ID: ICV

Worklist Smp#: 11

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

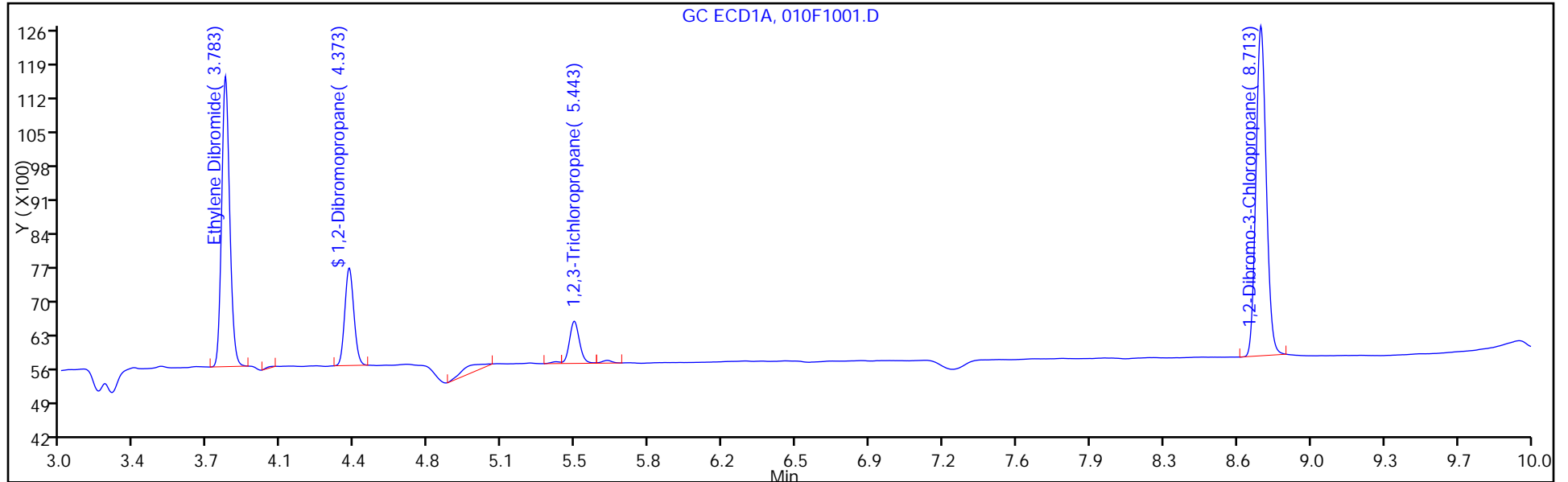
ALS Bottle#: 10

Method: 504.1

Limit Group: GCSV - 8011_504

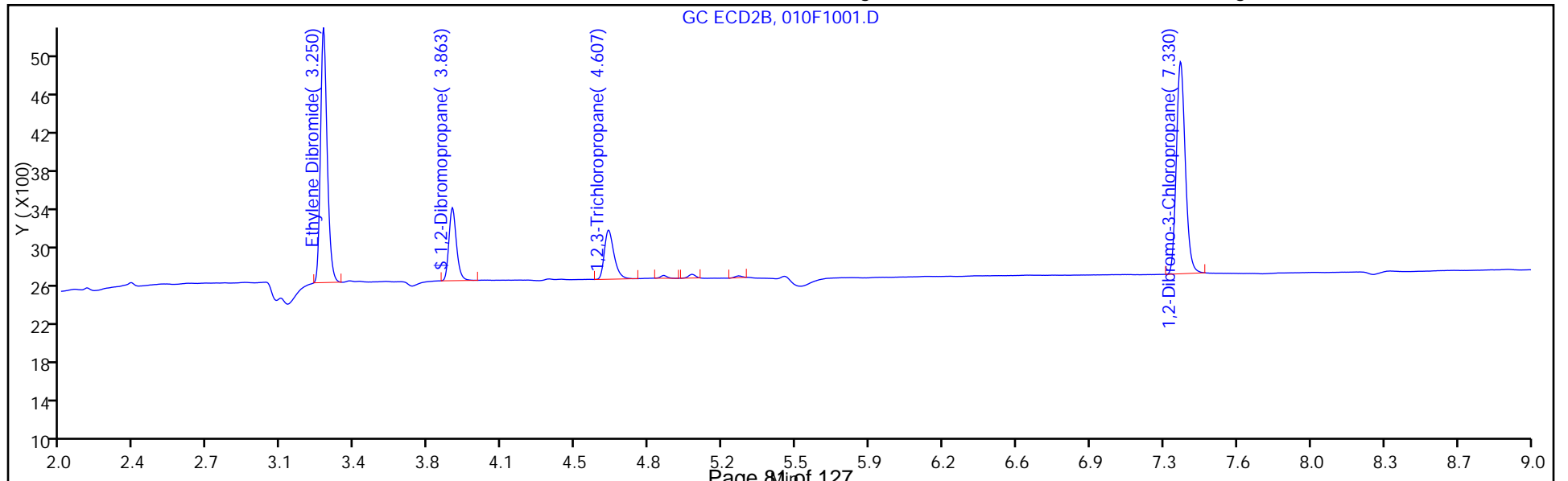
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 003F0201.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		76870		0.111	0.100	11.3	20.0
1,2,3-Trichloropropane	Lin1		12480		0.112	0.100	11.6	20.0
1,2-Dibromo-3-Chloropropane	Lin2		108610		0.107	0.100	7.0	20.0
1,2-Dibromopropane	Ave	59174	63070		0.107	0.100	6.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 003F0201.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.77	3.74	3.80
1,2,3-Trichloropropane	5.43	5.40	5.46
1,2-Dibromo-3-Chloropropane	8.70	8.67	8.73
1,2-Dibromopropane	4.36	4.33	4.39

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\003F0201.D
 Lims ID: CCVRT
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 05-Nov-2015 16:18:40 ALS Bottle#: 3 Worklist Smp#: 5
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ccvrt
 Operator ID: CDC Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 16:56:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.773	3.773	0.000	7687	0.1000	0.1113	
2	3.243	3.243	0.000	2742	0.1000	0.1086	
						RPD = 2.46	
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6307	0.1000	0.1066	
2	3.853	3.853	0.000	2054	0.1000	0.1124	
						RPD = 5.27	
3 1,2,3-Trichloropropane							
1	5.433	5.433	0.000	1248	0.1000	0.1116	
2	4.597	4.597	0.000	733	0.1000	0.1096	
						RPD = 1.87	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	10861	0.1000	0.1070	
2	7.317	7.317	0.000	3164	0.1000	0.1169	
						RPD = 8.82	

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\003F0201.D

Injection Date: 05-Nov-2015 16:18:40

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: CCVRT

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

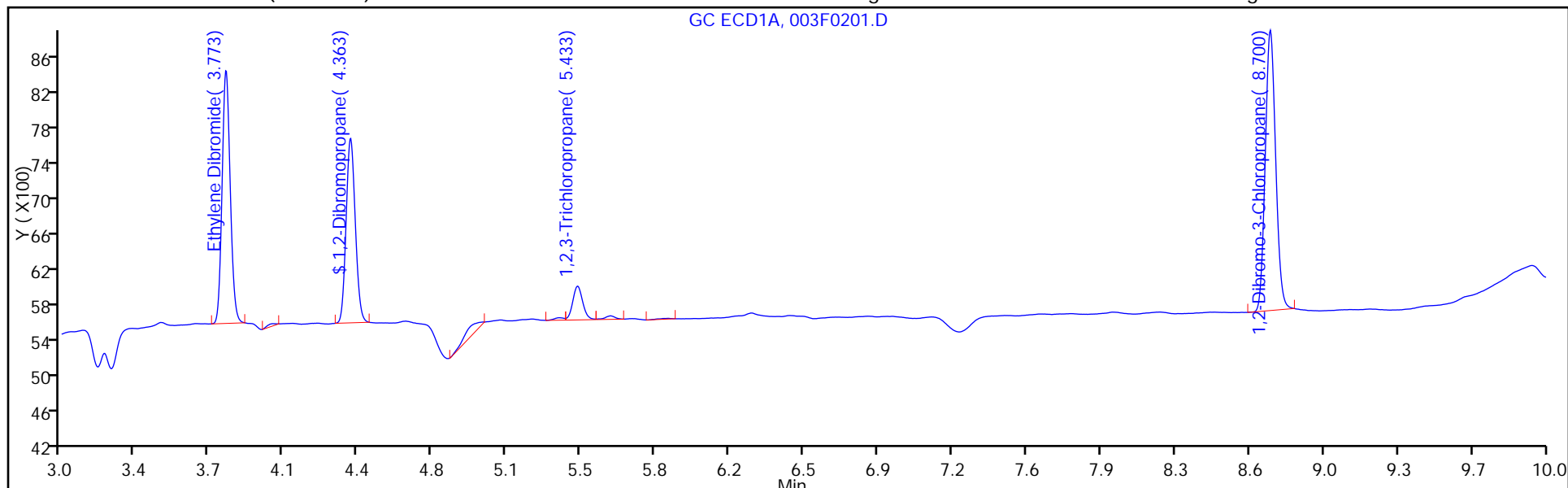
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011_504

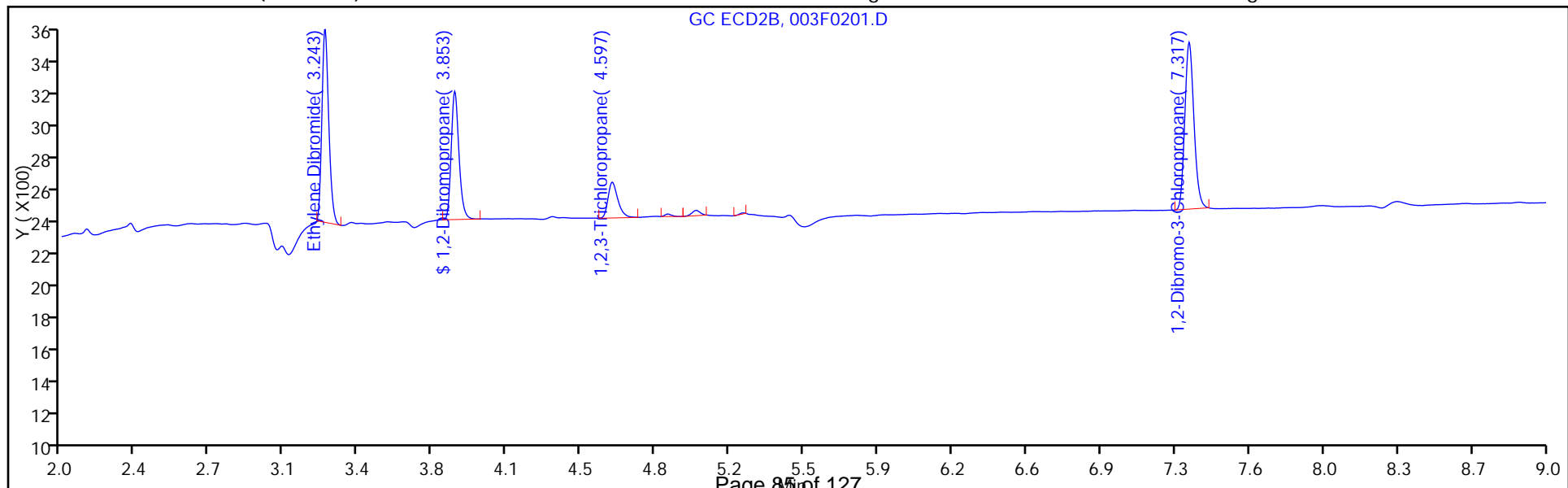
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 003F0201.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		27420		0.109	0.100	8.6	20.0
1,2,3-Trichloropropane	Ave	6691	7330		0.110	0.100	9.6	20.0
1,2-Dibromo-3-Chloropropane	Lin1		31640		0.117	0.100	16.9	20.0
1,2-Dibromopropane	Ave	18282	20540		0.112	0.100	12.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCVRT 280-302773/5 Calibration Date: 11/05/2015 16:18
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 003F0201.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.24	3.21	3.27
1,2,3-Trichloropropane	4.60	4.57	4.63
1,2-Dibromo-3-Chloropropane	7.32	7.29	7.35
1,2-Dibromopropane	3.85	3.82	3.88

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\003F0201.D
 Lims ID: CCVRT
 Client ID:
 Sample Type: CCVRT
 Inject. Date: 05-Nov-2015 16:18:40 ALS Bottle#: 3 Worklist Smp#: 5
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ccvrt
 Operator ID: CDC Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 16:56:31

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.773	3.773	0.000	7687	0.1000	0.1113	
2	3.243	3.243	0.000	2742	0.1000	0.1086	
						RPD = 2.46	
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6307	0.1000	0.1066	
2	3.853	3.853	0.000	2054	0.1000	0.1124	
						RPD = 5.27	
3 1,2,3-Trichloropropane							
1	5.433	5.433	0.000	1248	0.1000	0.1116	
2	4.597	4.597	0.000	733	0.1000	0.1096	
						RPD = 1.87	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	10861	0.1000	0.1070	
2	7.317	7.317	0.000	3164	0.1000	0.1169	
						RPD = 8.82	

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\003F0201.D

Injection Date: 05-Nov-2015 16:18:40

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: CCVRT

Worklist Smp#: 5

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

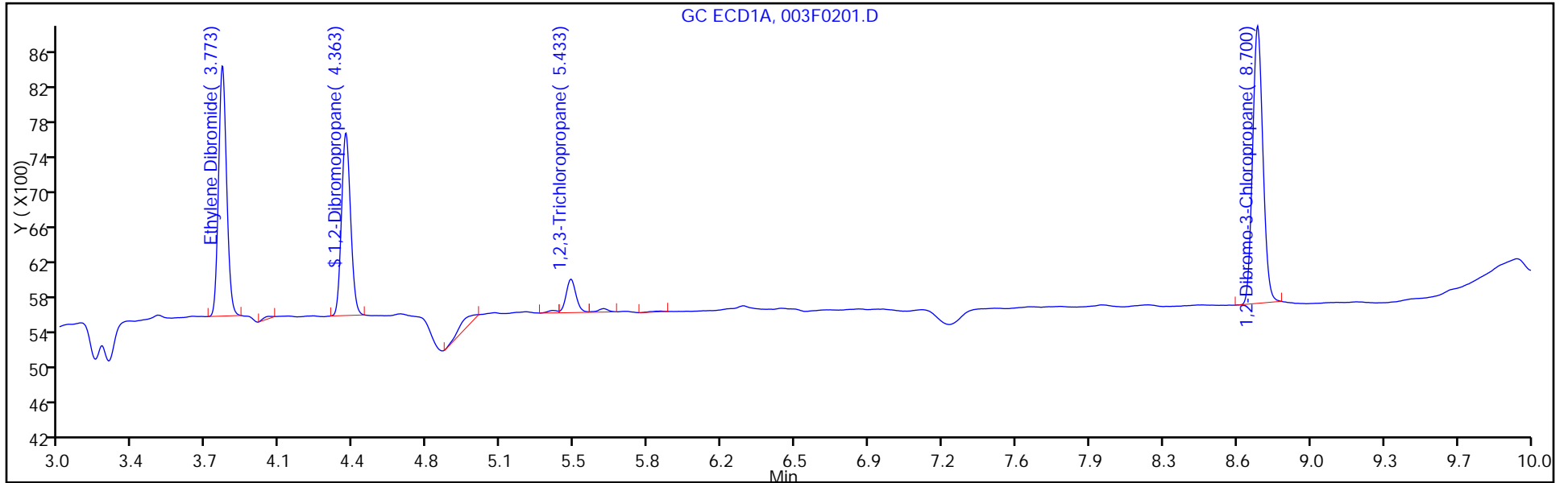
ALS Bottle#: 3

Method: 504.1

Limit Group: GCSV - 8011_504

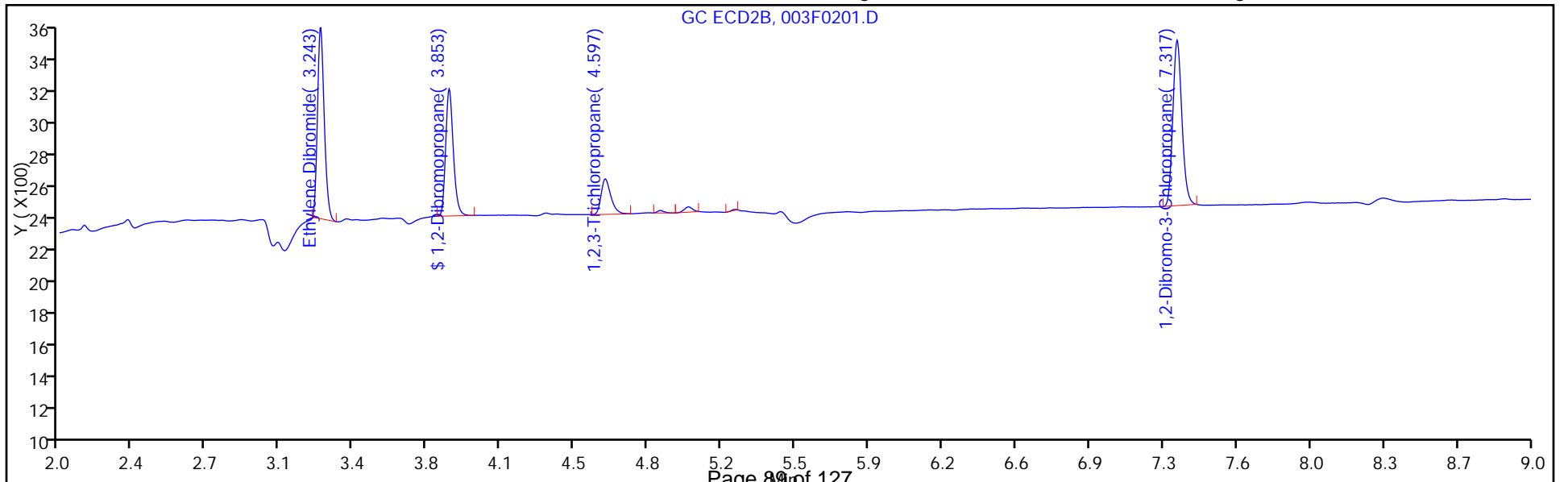
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 016F1501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		76000		0.110	0.100	10.0	20.0
1,2,3-Trichloropropane	Lin1		12360		0.110	0.100	10.5	20.0
1,2-Dibromo-3-Chloropropane	Lin2		112500		0.111	0.100	10.9	20.0
1,2-Dibromopropane	Ave	59174	63380		0.107	0.100	7.1	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 016F1501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.78	3.74	3.80
1,2,3-Trichloropropane	5.44	5.40	5.46
1,2-Dibromo-3-Chloropropane	8.71	8.67	8.73
1,2-Dibromopropane	4.37	4.33	4.39

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\016F1501.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Nov-2015 20:28:11 ALS Bottle#: 16 Worklist Smp#: 18
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ccv
 Operator ID: CDC Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:43:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.773	0.007	7600	0.1000	0.1100	
2	3.247	3.243	0.004	2830	0.1000	0.1123	
						RPD = 2.02	
\$ 2 1,2-Dibromopropane							
1	4.367	4.363	0.004	6338	0.1000	0.1071	
2	3.857	3.853	0.004	2116	0.1000	0.1157	
						RPD = 7.75	
3 1,2,3-Trichloropropane							
1	5.437	5.433	0.004	1236	0.1000	0.1105	
2	4.600	4.597	0.003	734	0.1000	0.1097	
						RPD = 0.72	
4 1,2-Dibromo-3-Chloropropane							
1	8.707	8.700	0.007	11250	0.1000	0.1109	
2	7.323	7.317	0.006	3286	0.1000	0.1216	
						RPD = 9.17	

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\016F1501.D

Injection Date: 05-Nov-2015 20:28:11

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 18

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

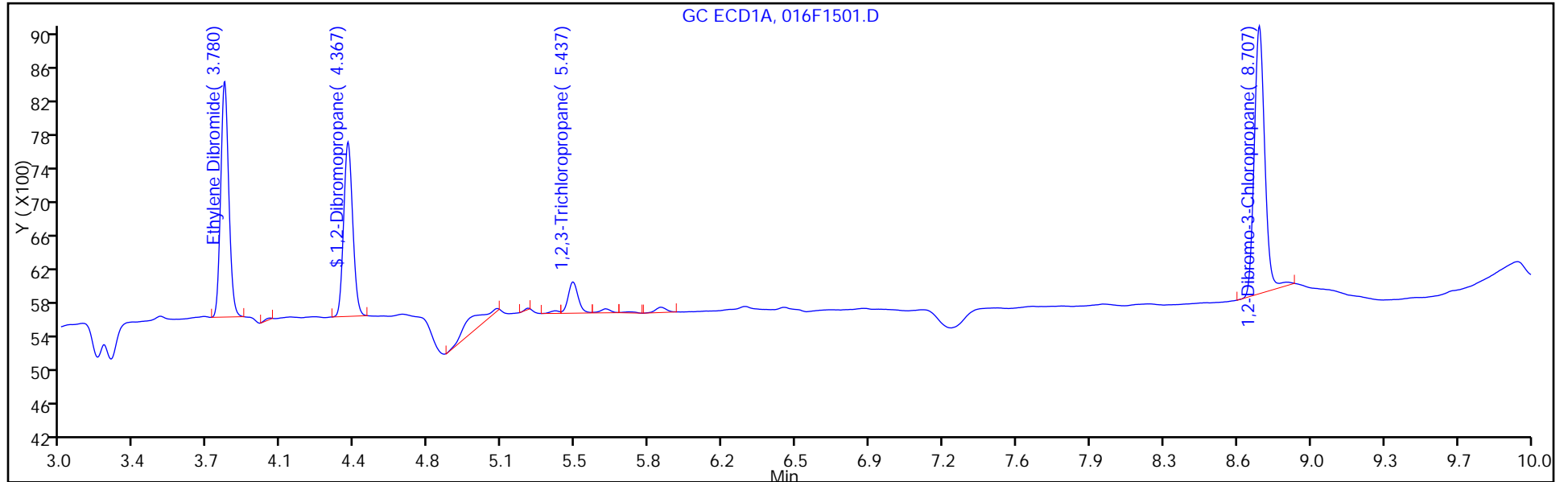
ALS Bottle#: 16

Method: 504.1

Limit Group: GCSV - 8011_504

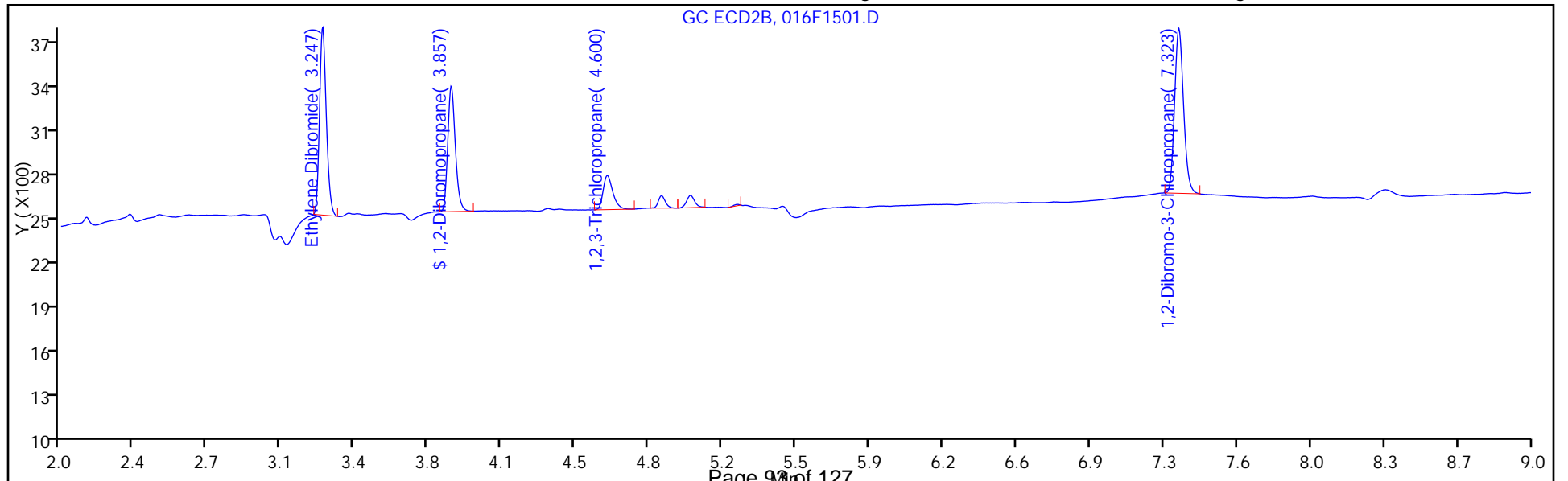
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 016F1501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		28300		0.112	0.100	12.3	20.0
1,2,3-Trichloropropane	Ave	6691	7340		0.110	0.100	9.7	20.0
1,2-Dibromo-3-Chloropropane	Lin1		32860		0.122	0.100	21.6*	20.0
1,2-Dibromopropane	Ave	18282	21160		0.116	0.100	15.7	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/18 Calibration Date: 11/05/2015 20:28
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 016F1501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.25	3.21	3.27
1,2,3-Trichloropropane	4.60	4.57	4.63
1,2-Dibromo-3-Chloropropane	7.32	7.29	7.35
1,2-Dibromopropane	3.86	3.82	3.88

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\016F1501.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Nov-2015 20:28:11 ALS Bottle#: 16 Worklist Smp#: 18
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ccv
 Operator ID: CDC Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:48:38 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 09-Nov-2015 17:43:54

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1	3.780	3.773	0.007	7600	0.1000	0.1100	
2	3.247	3.243	0.004	2830	0.1000	0.1123	
						RPD = 2.02	
\$ 2 1,2-Dibromopropane							
1	4.367	4.363	0.004	6338	0.1000	0.1071	
2	3.857	3.853	0.004	2116	0.1000	0.1157	
						RPD = 7.75	
3 1,2,3-Trichloropropane							
1	5.437	5.433	0.004	1236	0.1000	0.1105	
2	4.600	4.597	0.003	734	0.1000	0.1097	
						RPD = 0.72	
4 1,2-Dibromo-3-Chloropropane							
1	8.707	8.700	0.007	11250	0.1000	0.1109	
2	7.323	7.317	0.006	3286	0.1000	0.1216	
						RPD = 9.17	

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\016F1501.D

Injection Date: 05-Nov-2015 20:28:11

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 18

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

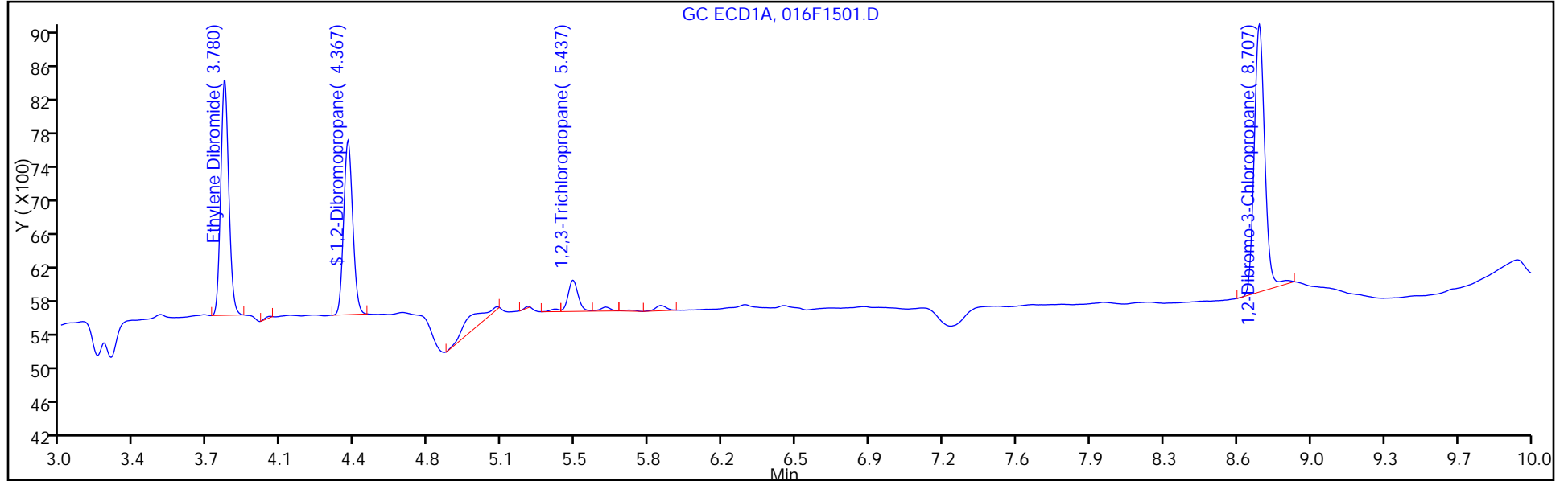
ALS Bottle#: 16

Method: 504.1

Limit Group: GCSV - 8011_504

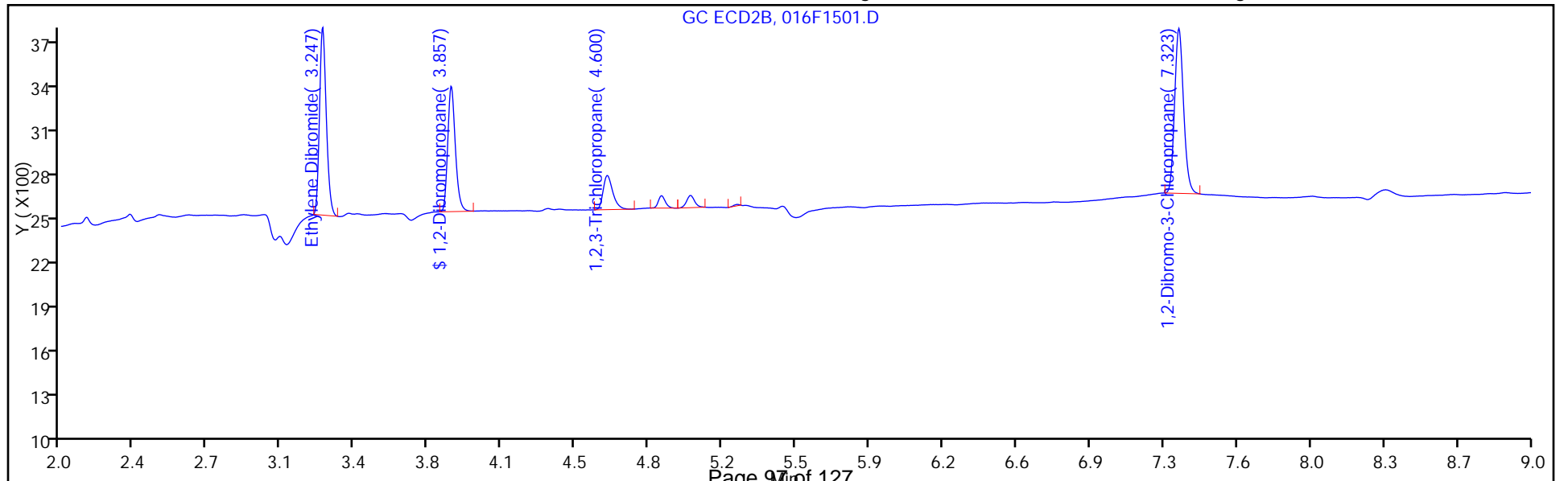
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 026F2501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		75470		0.109	0.100	9.2	20.0
1,2,3-Trichloropropane	Lin1		12470		0.112	0.100	11.5	20.0
1,2-Dibromo-3-Chloropropane	Lin2		111760		0.110	0.100	10.2	20.0
1,2-Dibromopropane	Ave	59174	63250		0.107	0.100	6.9	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX 502.2 ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 026F2501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.78	3.74	3.80
1,2,3-Trichloropropane	5.44	5.40	5.46
1,2-Dibromo-3-Chloropropane	8.71	8.67	8.73
1,2-Dibromopropane	4.37	4.33	4.39

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\026F2501.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Nov-2015 23:37:39 ALS Bottle#: 26 Worklist Smp#: 28
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ccv
 Operator ID: CDC Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:49:34 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide

1	3.780	3.773	0.007	7547	0.1000	0.1092	
2	3.247	3.243	0.004	2791	0.1000	0.1107	
							RPD = 1.32

\$ 2 1,2-Dibromopropane

1	4.367	4.363	0.004	6325	0.1000	0.1069	
2	3.860	3.853	0.007	2111	0.1000	0.1155	
							RPD = 7.72

3 1,2,3-Trichloropropane

1	5.440	5.433	0.007	1247	0.1000	0.1115	
2	4.603	4.597	0.006	730	0.1000	0.1091	
							RPD = 2.19

4 1,2-Dibromo-3-Chloropropane

1	8.707	8.700	0.007	11176	0.1000	0.1102	
2	7.323	7.317	0.006	3361	0.1000	0.1245	
							RPD = 12.19

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\026F2501.D

Injection Date: 05-Nov-2015 23:37:39

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 28

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

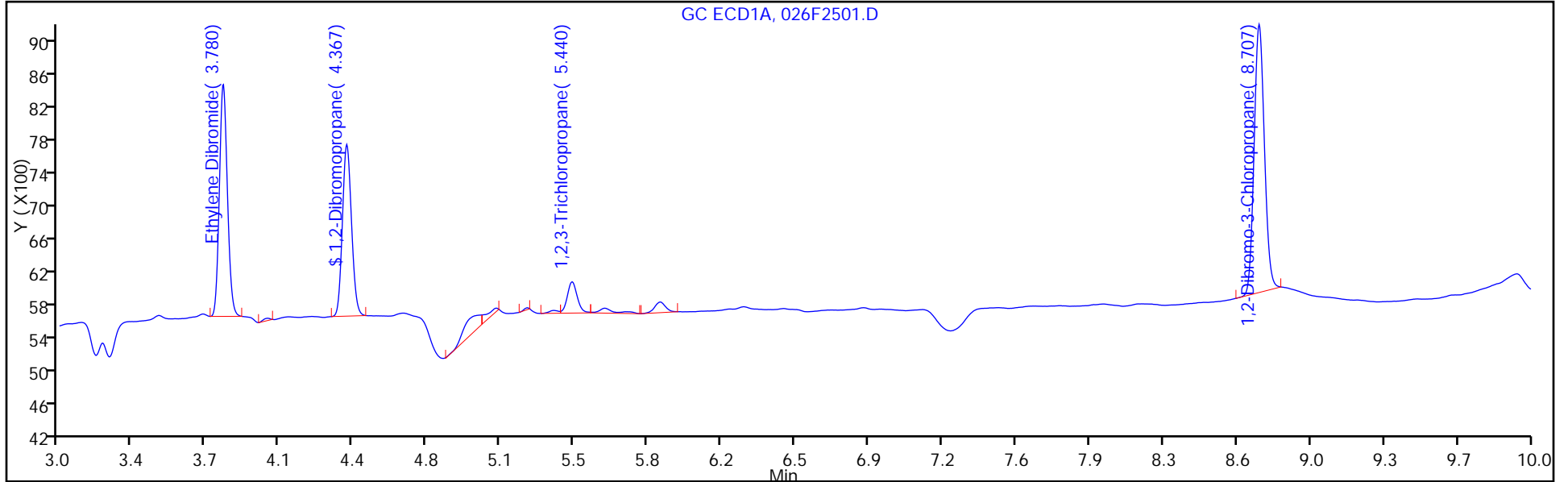
ALS Bottle#: 26

Method: 504.1

Limit Group: GCSV - 8011_504

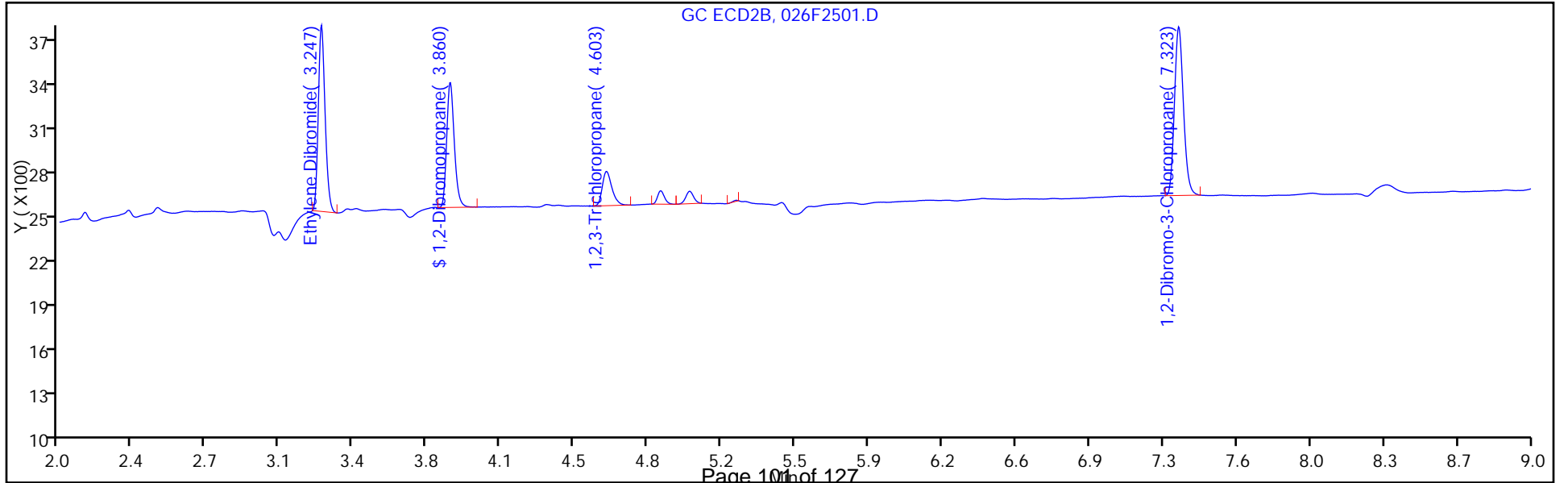
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 026F2501.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethylene Dibromide	Lin1		27910		0.111	0.100	10.7	20.0
1,2,3-Trichloropropane	Ave	6691	7300		0.109	0.100	9.1	20.0
1,2-Dibromo-3-Chloropropane	Lin1		33610		0.124	0.100	24.5*	20.0
1,2-Dibromopropane	Ave	18282	21110		0.115	0.100	15.5	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Lab Sample ID: CCV 280-302773/28 Calibration Date: 11/05/2015 23:37
 Instrument ID: SGC_E Calib Start Date: 10/27/2015 15:55
 GC Column: RTX-VRX ID: 0.32 (mm) Calib End Date: 10/27/2015 17:49
 Lab File ID: 026F2501.D

Analyte	RT	RT WINDOW	
		FROM	TO
Ethylene Dibromide	3.25	3.21	3.27
1,2,3-Trichloropropane	4.60	4.57	4.63
1,2-Dibromo-3-Chloropropane	7.32	7.29	7.35
1,2-Dibromopropane	3.86	3.82	3.88

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\026F2501.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 05-Nov-2015 23:37:39 ALS Bottle#: 26 Worklist Smp#: 28
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: ccv
 Operator ID: CDC Instrument ID: SGC_E
 Sublist: chrom-504.1*sub1

Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:49:34 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D

Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide

1	3.780	3.773	0.007	7547	0.1000	0.1092	
2	3.247	3.243	0.004	2791	0.1000	0.1107	
							RPD = 1.32

\$ 2 1,2-Dibromopropane

1	4.367	4.363	0.004	6325	0.1000	0.1069	
2	3.860	3.853	0.007	2111	0.1000	0.1155	
							RPD = 7.72

3 1,2,3-Trichloropropane

1	5.440	5.433	0.007	1247	0.1000	0.1115	
2	4.603	4.597	0.006	730	0.1000	0.1091	
							RPD = 2.19

4 1,2-Dibromo-3-Chloropropane

1	8.707	8.700	0.007	11176	0.1000	0.1102	
2	7.323	7.317	0.006	3361	0.1000	0.1245	
							RPD = 12.19

Reagents:

504ICALWork_00100 Amount Added: 175.00 Units: uL
 504SurrWork_00149 Amount Added: 35.00 Units: uL

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\026F2501.D

Injection Date: 05-Nov-2015 23:37:39

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: ccv

Worklist Smp#: 28

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

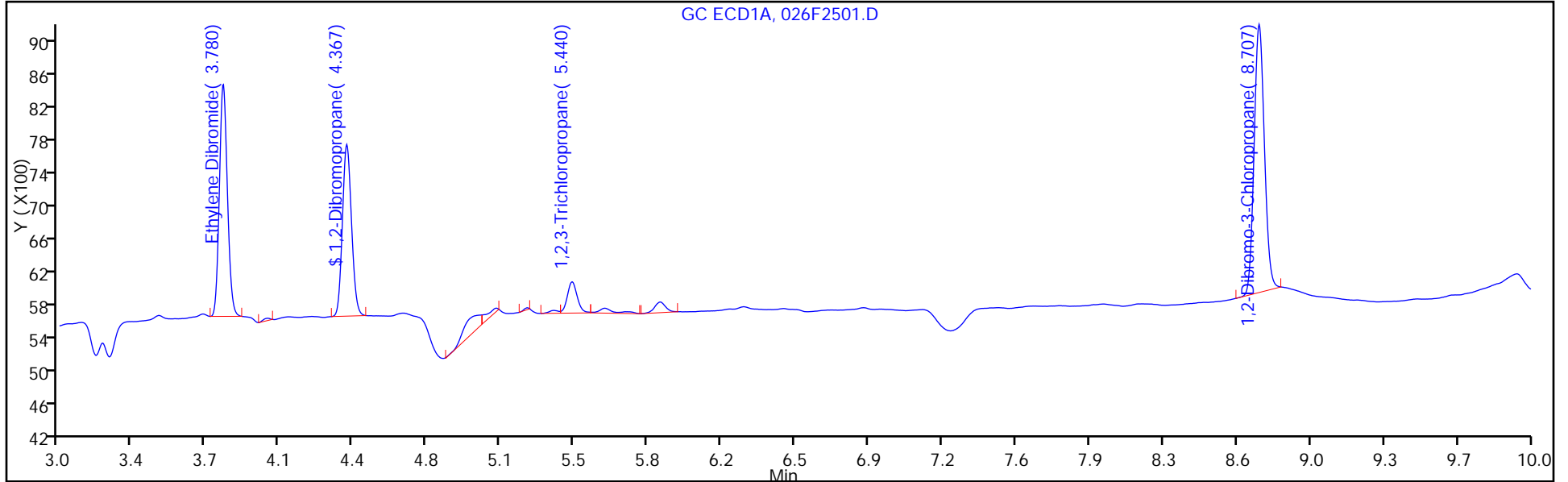
ALS Bottle#: 26

Method: 504.1

Limit Group: GCSV - 8011_504

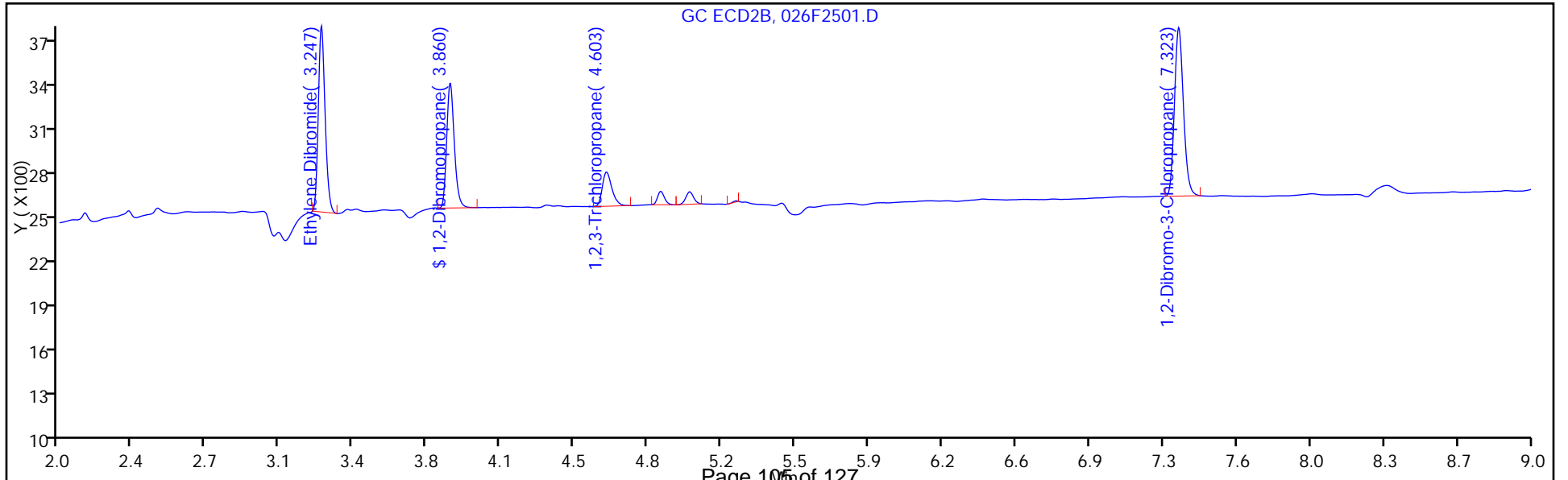
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 280-302740/2-A
 Matrix: Water Lab File ID: 004F0301.D
 Analysis Method: 8011/DOD Date Collected: _____
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 16:38
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.014	U	0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\004F0301.D
 Lims ID: MB 280-302740/2-A
 Client ID:
 Sample Type: MB
 Inject. Date: 05-Nov-2015 16:38:02 ALS Bottle#: 4 Worklist Smp#: 6
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: mb
 Operator ID: CDC Instrument ID: SGC_E
 Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
-----	-----------	---------------	---------------	----------	--------------	----------------	-------

1 Ethylene Dibromide							
1		3.773				ND	
2		3.243					
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6328	0.1000	0.1069	
2	3.853	3.853	0.000	2060	0.1000	0.1127	
						RPD = 5.23	
3 1,2,3-Trichloropropane							
1		5.433				ND	
2		4.597					
4 1,2-Dibromo-3-Chloropropane							
1		8.700				ND	
2		7.317					

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\004F0301.D

Injection Date: 05-Nov-2015 16:38:02

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: MB 280-302740/2-A

Worklist Smp#: 6

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

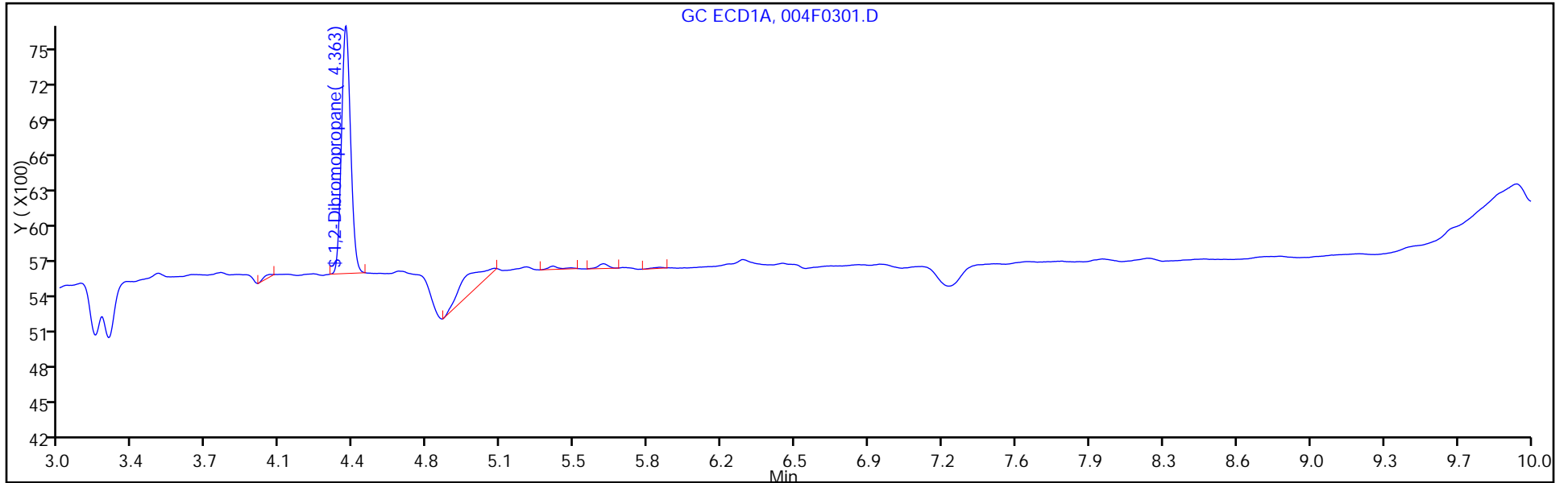
ALS Bottle#: 4

Method: 504.1

Limit Group: GCSV - 8011_504

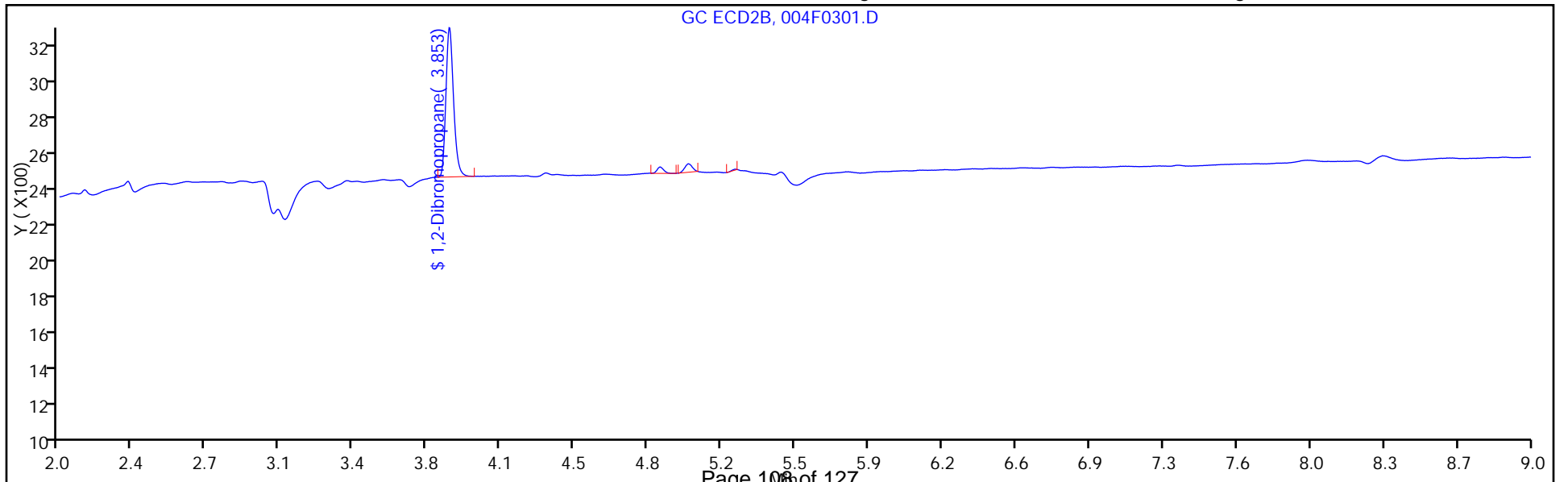
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 280-302740/3-A
 Matrix: Water Lab File ID: 005F0401.D
 Analysis Method: 8011/DOD Date Collected: _____
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 16:57
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.245		0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\005F0401.D
 Lims ID: LCS 280-302740/3-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 05-Nov-2015 16:57:21 ALS Bottle#: 5 Worklist Smp#: 7
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: lcs
 Operator ID: CDC Instrument ID: SGC_E
 Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide

1	3.773	3.773	0.000	16457	0.2500	0.2447	
2	3.240	3.243	-0.003	6005	0.2500	0.2432	
							RPD = 0.61

\$ 2 1,2-Dibromopropane

1	4.363	4.363	0.000	6304	0.1000	0.1065	
2	3.853	3.853	0.000	2062	0.1000	0.1128	
							RPD = 5.70

3 1,2,3-Trichloropropane

1	5.433	5.433	0.000	2982	0.2500	0.2732	
2	4.597	4.597	0.000	1757	0.2500	0.2626	
							RPD = 3.95

4 1,2-Dibromo-3-Chloropropane

1	8.697	8.700	-0.003	23575	0.2500	0.2348	
2	7.317	7.317	0.000	6905	0.2500	0.2609	
							RPD = 10.52

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\005F0401.D

Injection Date: 05-Nov-2015 16:57:21

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: LCS 280-302740/3-A

Worklist Smp#: 7

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

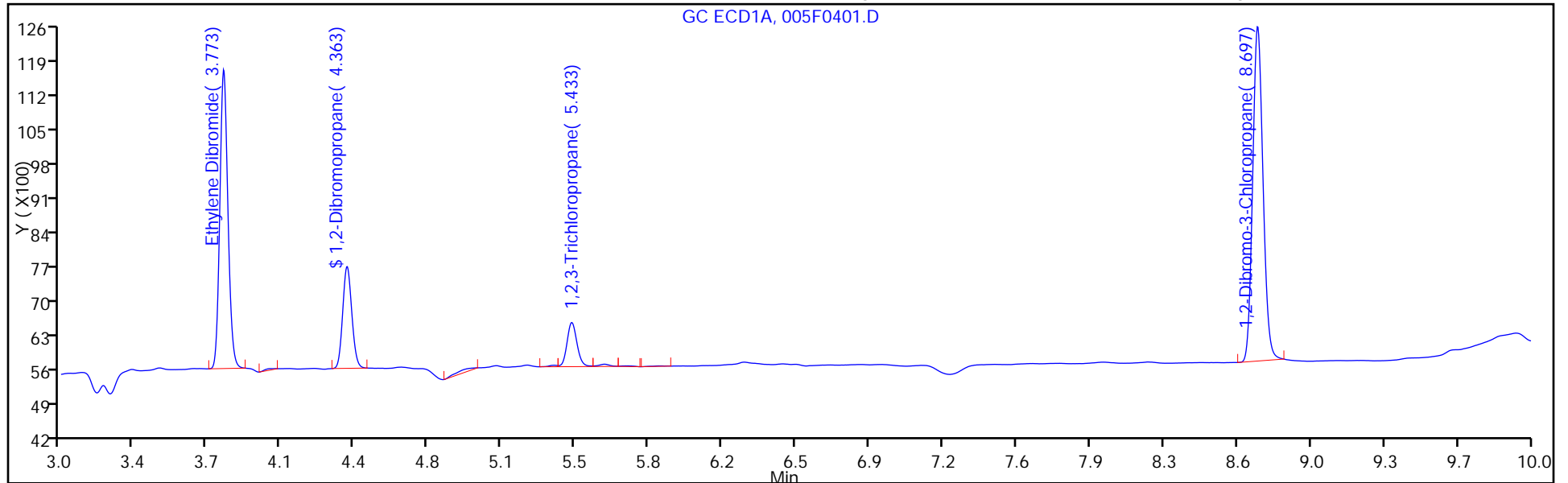
ALS Bottle#: 5

Method: 504.1

Limit Group: GCSV - 8011_504

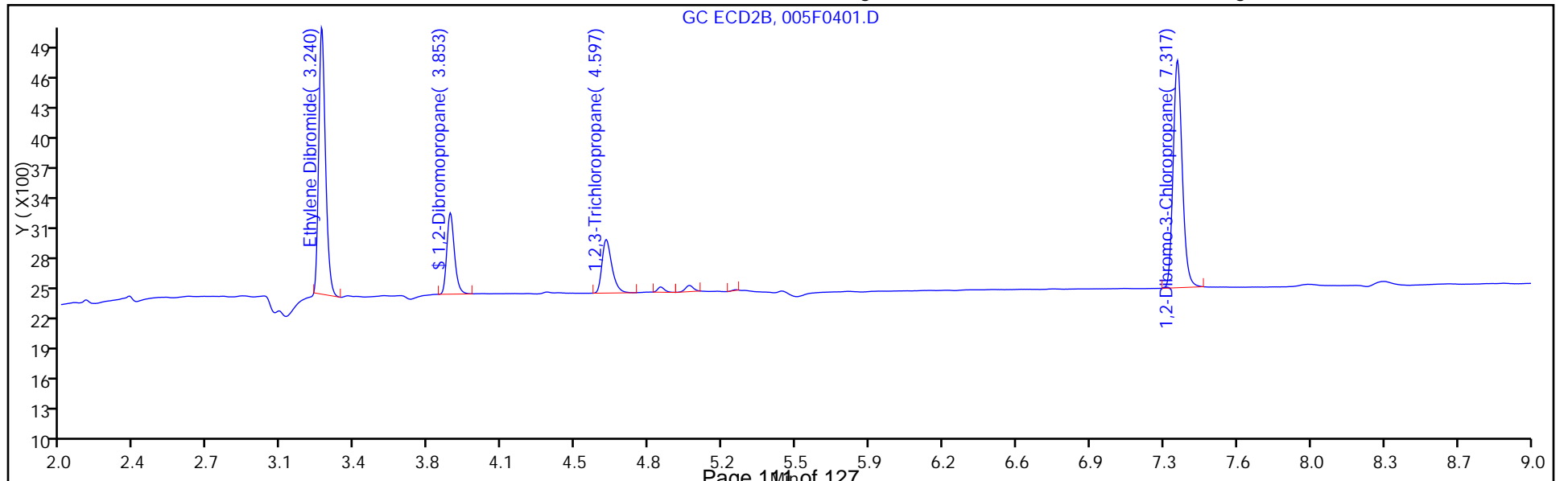
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-76216-3
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 280-302740/4-A
 Matrix: Water Lab File ID: 006F0501.D
 Analysis Method: 8011/DOD Date Collected: _____
 Extraction Method: 8011 Date Extracted: 11/05/2015 14:18
 Sample wt/vol: 35 (mL) Date Analyzed: 11/05/2015 17:16
 Con. Extract Vol.: 35 (mL) Dilution Factor: 1
 Injection Volume: 3 (uL) GC Column: RTX 502.2 ID: 0.32 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 302773 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	LOQ	LOD	DL
106-93-4	Ethylene Dibromide	0.246		0.020	0.014	0.0037

CAS NO.	SURROGATE	%REC	Q	LIMITS
78-75-1	1,2-Dibromopropane	107		70-130

TestAmerica Denver
Target Compound Quantitation Report

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\006F0501.D
 Lims ID: LCSD 280-302740/4-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 05-Nov-2015 17:16:42 ALS Bottle#: 6 Worklist Smp#: 8
 Injection Vol: 3.0 ul Dil. Factor: 1.0000
 Sample Info: lcsd
 Operator ID: CDC Instrument ID: SGC_E
 Method: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\504.1.m
 Limit Group: GCSV - 8011_504
 Method Label: 504.1/8011 EDB+TCP+DBCP in water/soil by DV-GC-0019
 Last Update: 09-Nov-2015 17:47:00 Calib Date: 27-Oct-2015 17:49:31
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Denver\ChromData\SGC_E\20151027-40816.b\009F0901.D
 Column 1 : Restex Rtx-502.2 (0.32 mm) Det: GC ECD1A
 Column 2 : Restek Rtx-VRX (0.32 mm) Det: GC ECD2B
 Process Host: XAWRK048

First Level Reviewer: cokleyc Date: 05-Nov-2015 17:52:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
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1 Ethylene Dibromide							
1	3.773	3.773	0.000	16567	0.2500	0.2463	
2	3.243	3.243	0.000	6047	0.2500	0.2449	
						RPD = 0.58	
\$ 2 1,2-Dibromopropane							
1	4.363	4.363	0.000	6353	0.1000	0.1074	
2	3.853	3.853	0.000	2071	0.1000	0.1133	
						RPD = 5.36	
3 1,2,3-Trichloropropane							
1	5.433	5.433	0.000	3005	0.2500	0.2753	
2	4.597	4.597	0.000	1775	0.2500	0.2653	
						RPD = 3.71	
4 1,2-Dibromo-3-Chloropropane							
1	8.700	8.700	0.000	23821	0.2500	0.2373	
2	7.317	7.317	0.000	6912	0.2500	0.2612	
						RPD = 9.58	

TestAmerica Denver

Data File: \\ChromNA\Denver\ChromData\SGC_E\20151105-41177.b\006F0501.D

Injection Date: 05-Nov-2015 17:16:42

Instrument ID: SGC_E

Operator ID: CDC

Lims ID: LCSD 280-302740/4-A

Worklist Smp#: 8

Client ID:

Injection Vol: 3.0 ul

Dil. Factor: 1.0000

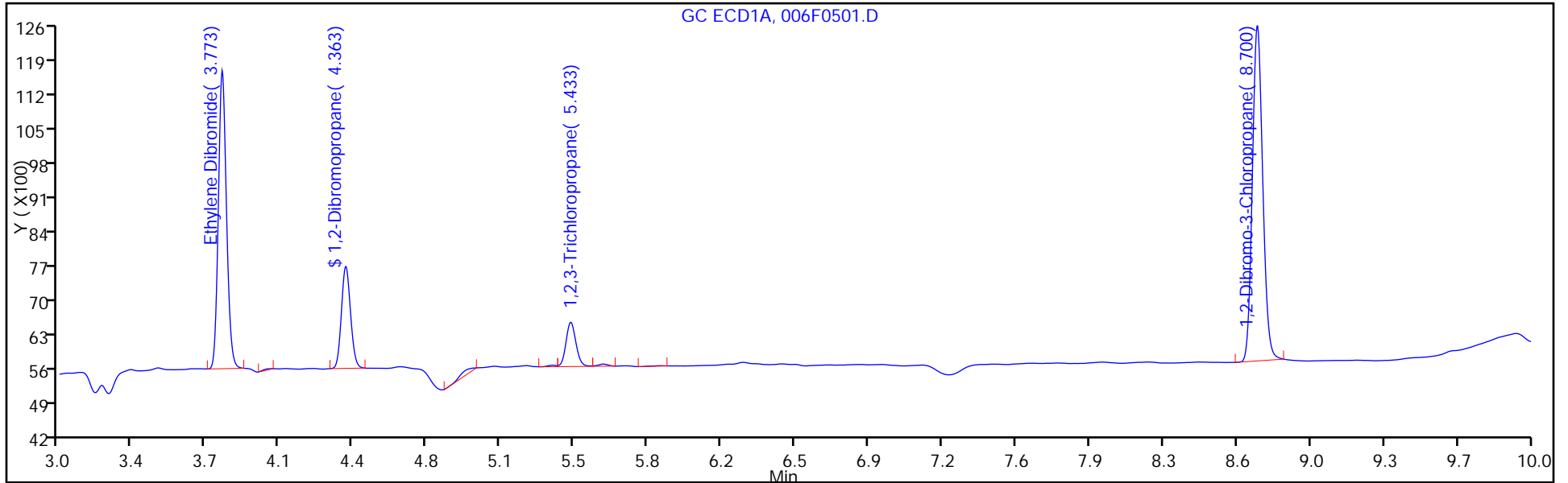
ALS Bottle#: 6

Method: 504.1

Limit Group: GCSV - 8011_504

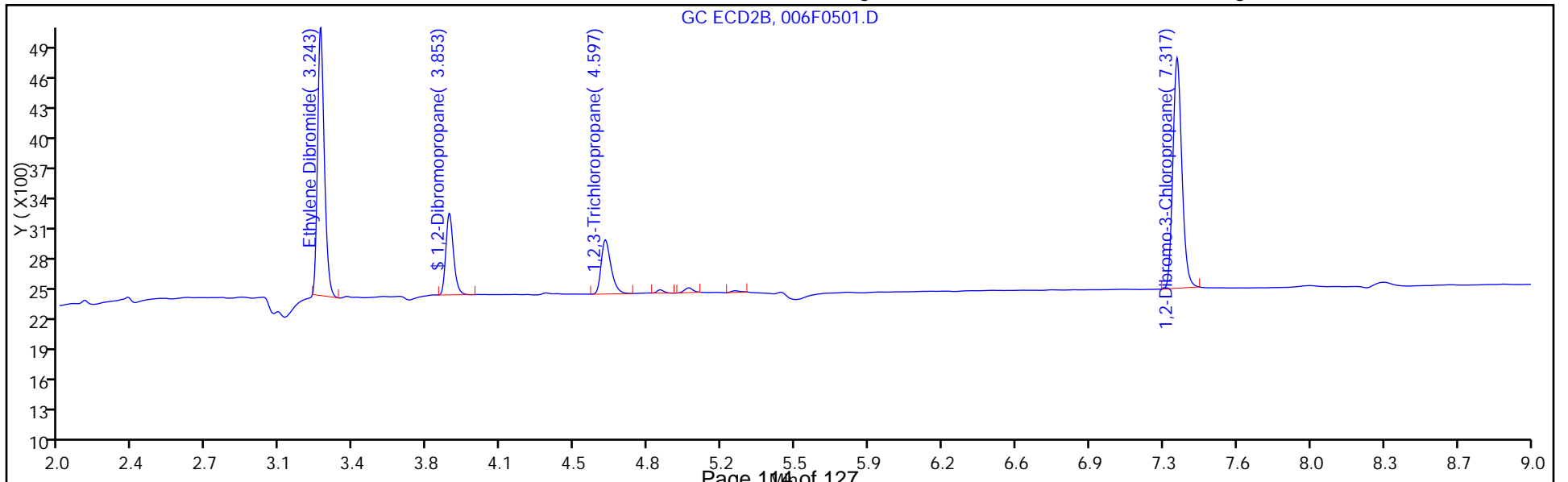
Column: Restex Rtx-502.2 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Column: Restek Rtx-VRX (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica DenverJob No.: 280-76216-3

SDG No.: _____

Instrument ID: SGC_EStart Date: 10/27/2015 15:55Analysis Batch Number: 301315End Date: 10/27/2015 18:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 280-301315/4 IC		10/27/2015 15:55	1	003F0301.D	RTX 502.2 0.32 (mm)
STD7 280-301315/4 IC		10/27/2015 15:55	1	003F0301.D	RTX-VRX 0.32 (mm)
STD6 280-301315/5 IC		10/27/2015 16:14	1	004F0401.D	RTX 502.2 0.32 (mm)
STD6 280-301315/5 IC		10/27/2015 16:14	1	004F0401.D	RTX-VRX 0.32 (mm)
STD5 280-301315/6 IC		10/27/2015 16:33	1	005F0501.D	RTX 502.2 0.32 (mm)
STD5 280-301315/6 IC		10/27/2015 16:33	1	005F0501.D	RTX-VRX 0.32 (mm)
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	1	006F0601.D	RTX 502.2 0.32 (mm)
STD4RT 280-301315/7 ICRT		10/27/2015 16:52	1	006F0601.D	RTX-VRX 0.32 (mm)
STD3 280-301315/8 IC		10/27/2015 17:11	1	007F0701.D	RTX 502.2 0.32 (mm)
STD3 280-301315/8 IC		10/27/2015 17:11	1	007F0701.D	RTX-VRX 0.32 (mm)
STD2 280-301315/9 IC		10/27/2015 17:30	1	008F0801.D	RTX 502.2 0.32 (mm)
STD2 280-301315/9 IC		10/27/2015 17:30	1	008F0801.D	RTX-VRX 0.32 (mm)
STD1 280-301315/10 IC		10/27/2015 17:49	1	009F0901.D	RTX 502.2 0.32 (mm)
STD1 280-301315/10 IC		10/27/2015 17:49	1	009F0901.D	RTX-VRX 0.32 (mm)
ICV 280-301315/11		10/27/2015 18:08	1	010F1001.D	RTX 502.2 0.32 (mm)
ICV 280-301315/11		10/27/2015 18:08	1	010F1001.D	RTX-VRX 0.32 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-76216-3

SDG No.: _____

Instrument ID: SGC_E Start Date: 11/05/2015 16:18

Analysis Batch Number: 302773 End Date: 11/05/2015 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVRT 280-302773/5		11/05/2015 16:18	1	003F0201.D	RTX 502.2 0.32 (mm)
CCVRT 280-302773/5		11/05/2015 16:18	1	003F0201.D	RTX-VRX 0.32 (mm)
MB 280-302740/2-A		11/05/2015 16:38	1	004F0301.D	RTX 502.2 0.32 (mm)
MB 280-302740/2-A		11/05/2015 16:38	1	004F0301.D	RTX-VRX 0.32 (mm)
LCS 280-302740/3-A		11/05/2015 16:57	1	005F0401.D	RTX 502.2 0.32 (mm)
LCS 280-302740/3-A		11/05/2015 16:57	1	005F0401.D	RTX-VRX 0.32 (mm)
LCSD 280-302740/4-A		11/05/2015 17:16	1	006F0501.D	RTX 502.2 0.32 (mm)
LCSD 280-302740/4-A		11/05/2015 17:16	1	006F0501.D	RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 17:35	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 17:35	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 17:55	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 17:55	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 18:14	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 18:14	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 18:33	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 18:33	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 18:52	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 18:52	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 19:12	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 19:12	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 19:31	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 19:31	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 19:50	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 19:50	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 20:09	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 20:09	1		RTX-VRX 0.32 (mm)
CCV 280-302773/18		11/05/2015 20:28	1	016F1501.D	RTX 502.2 0.32 (mm)
CCV 280-302773/18		11/05/2015 20:28	1	016F1501.D	RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 20:47	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 20:47	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 21:06	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 21:06	1		RTX-VRX 0.32 (mm)
280-76216-3	MW03102015	11/05/2015 21:25	1	019F1801.D	RTX 502.2 0.32 (mm)
280-76216-3	MW03102015	11/05/2015 21:25	1	019F1801.D	RTX-VRX 0.32 (mm)
280-76216-11	TMW33102015	11/05/2015 21:44	1	020F1901.D	RTX 502.2 0.32 (mm)
280-76216-11	TMW33102015	11/05/2015 21:44	1	020F1901.D	RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:03	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:03	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:21	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:21	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:40	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:40	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 22:59	1		RTX 502.2 0.32 (mm)
ZZZZZ		11/05/2015 22:59	1		RTX-VRX 0.32 (mm)
ZZZZZ		11/05/2015 23:18	1		RTX 502.2 0.32 (mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Denver Job No.: 280-76216-3

SDG No.: _____

Instrument ID: SGC_E Start Date: 11/05/2015 16:18

Analysis Batch Number: 302773 End Date: 11/05/2015 23:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/05/2015 23:18	1		RTX-VRX 0.32 (mm)
CCV 280-302773/28		11/05/2015 23:37	1	026F2501.D	RTX 502.2 0.32 (mm)
CCV 280-302773/28		11/05/2015 23:37	1	026F2501.D	RTX-VRX 0.32 (mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Denver Job No.: 280-76216-3

SDG No.: _____

Batch Number: 302740 Batch Start Date: 11/05/15 14:18 Batch Analyst: Cokley, Cheyana D

Batch Method: 8011 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	504LCSWork 00050	504SurrWork 00149
MB 280-302740/2		8011, 8011/DOD				35 mL	35 mL		35 uL
LCS 280-302740/3		8011, 8011/DOD				35 mL	35 mL	35 uL	35 uL
LCSD 280-302740/4		8011, 8011/DOD				35 mL	35 mL	35 uL	35 uL
280-76216-M-3	MW03102015	8011, 8011/DOD	T	61.35 g	25.88 g	35.5 mL	35 mL		35 uL
280-76216-N-11	TMW33102015	8011, 8011/DOD	T	61.87 g	26.40 g	35.5 mL	35 mL		35 uL

Batch Notes	
Balance ID	24750525
Batch Comment	Hexane: delivered by pip:H@2mLs batched @1359
Hexane Lot#	0000116331
NaCl Lot #	148298
Sufficient volume for MS/MSD?	YES

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
phone 303-736-0100 fax 303-431-7171

Chain of Custody

280-76216 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact John Nance Tel: 505 835 7660		Project Manager: John Nance Tel: 505 835 7660		Site Contact: John Nance 505 321 7260 Date: 10/30/15		Carrier: Federal Express		COC No: FWDAOCT15-04 1 of 1 COCs					
6700 Jefferson Street NE Suite C3 Albuquerque, NM 87109 505 835 7660 PHONE		Analysis Turnaround Time Calendar (C) or Work Days (W) W TAT if different from Below 15 <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact: Michelle Johnston		Job No.		SDG No.					
Project Name: Fort Wingate Site: Fort Wingate, New Mexico P O #		Sample Date		Sample Time		Sample Type		Matrix		# of Cont.			
Sample Identification		TB-06-102015		08:00		Grab		GW		1			
		TB-07-102015		08:05		Grab		GW		1			
		MW03102015		09:10		Grab		GW		17			
		TMW26102015		11:15		Grab		GW		9			
		DTW26102015		11:15		Grab		GW		9			
		TMW26102015MS		11:15		Grab		GW		9			
		TMW26102015MSD		11:15		Grab		GW		9			
		TMW27102015		13:15		Grab		GW		6			
		MW22S102015		08:02		Grab		GW		3			
		TMW40S102015		08:55		Grab		GW		2			
		TMW22102015		09:20		Grab		GW		1			
		TMW23102015		09:43		Grab		GW		11			
		TMW33102015		11:20		Grab		GW		16			
		BGMW03102015		12:30		Grab		GW		13			
		TMW07102015		12:10		Grab		GW		10			
Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other		Sample Disposal		Return To Client		Disposal By Lab		Ar		For 60 days after invoice			
Possible Hazard Identification		Non-Hazard		Flammable		Skin Irritant		Poison B		Ink/known			
Special Instructions/QC Requirements & Comments:		1, 2, 3, 4, 5, 11, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100		Company: CHE2M HILL		Date/Time: 10/30/15 16:00		Received by: <i>ASB</i>		Company: TAD		Date/Time: 09/03/15	
Relinquished by: <i>L. Hill</i>		Company:		Date/Time:		Received by:		Company:		Date/Time:		Date/Time:	
Relinquished by:		Company:		Date/Time:		Received by:		Company:		Date/Time:		Date/Time:	

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ORDER: 00823698
8210 E Louisiana NE, Ste C
MOORE, NM 87113
(505) 321-7260

Package Weight
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Priority
Overnight®

Release Signature
For nonresidential deliveries.

For FedEx Use Only

Employee Number	Base Charges
Other	Total Charges

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

2 To *Shipment will not be accepted if address below is altered.*

M-10091 Rev. 3/10

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TESTAMERICA DENVER
4955 YARROW ST.
ARVADA, CO 80002
(303) 736-0100

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FedEx
TRK# **8087 7477 9897**
0667

SATURDAY 12:00P
PRIORITY OVERNIGHT

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SUN DANCE
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Apt. NM 87113
(505) 321-7260

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Signature area reserved for the sender.

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Base Charges

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Total Charges

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Total Charges

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SATURDAY DELIVERY

Shipments tendered on Friday are delivered

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Package Weight

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For nonresidential deliveries.

For **FedEx** Use Only
Employee Number

Base Charges

Signature of the addressee or authorized agent

Other

Total Charges

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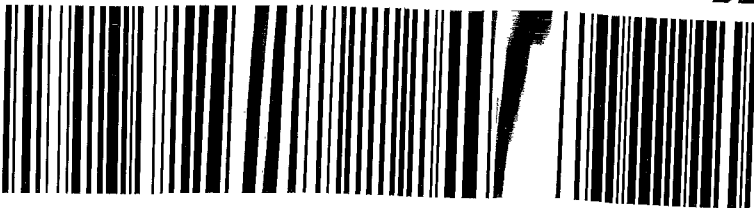
TRK# 8087 7477 9923

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SA **TURDAY 12:00**
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	Employee Number	Base Charges
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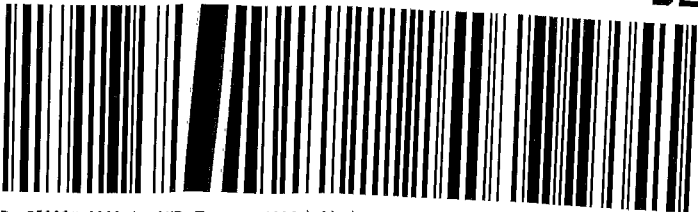
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ABQ, NM 87113
(505) 321-7260

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Login Sample Receipt Checklist

Client: Sundance Consulting, Inc

Job Number: 280-76216-3

Login Number: 76216
List Number: 1
Creator: Muniz, Ashley T

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Not requested on COC.
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.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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	