BC LABORATORIES, INC.

Work Order Number: 1720018

Laboratory Documentation Requirements

For Data Validation of

GC Analysis
Metals Analysis (using ppb units)
Volatiles Analysis
Wet Chemistry Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure-

5023146096

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Case Narrative

Analyses Requested: **RSK 175M**
Submission Number: 17-20018

Instrument ID: GC-V1
Model: Varian 3400

Column Type: RTX 502.2, 60m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample and Duplicate: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Case Narrative

Analyses Requested: Metals
Submission Number: 17-20018

Method 6020-PPB
Instrument ID: Perkins Elmer Élan 6100 (PE-EL2)
Sample Volume(s): 10ml
Digest Volume(s): 10ml

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and preparations took place within holding times.

Calibration: An initial calibration criterion was met. Frequency and accuracy criteria for initial calibration verification and continuing calibration verifications were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements were met.

Case Narrative

Analyses Requested: 8260

Submission Number: 17-20018

Instrument ID: MS-V5
Model: HP5973/GC6890

Column Type: Rxi R-624 Sil MS 30m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) were met. Frequency and accuracy criteria for continuing calibration verification (CCV) were met except the recoveries for Bromomethane and Chloromethane in 1712906-CCV1, 1712906-CCV4 and 1713088-CCV1, and the recovery for 2,2-Dichloropropane in 1713088-CCV1 were outside QC limits. Ending CCV criteria of fifty percent were met except the recovery for Bromomethane in 1712906-CCV7 was outside QC limits. Any compounds that were flagged, but not required, were not noted here.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters for the requested compounds were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy requirements for the requested compounds were met except the matrix spike recovery for 1,2,3-Trichloropropane and the matrix spike duplicate recoveries for Bromoform, 1,1,2,2-Tetrachloroethane and 1,2,3-Trichloropropane were outside QC limits. All precision requirements for the requested compounds were met.

Case Narrative

Analyses Requested: **Gen-Chem.**
Submission #: 17-20018

Method 160.1
Instrument ID: Manual
Sample Volume(s): 100ml/100ml

Method 300.0
Instrument ID: IC-1
Sample Volume(s): 20ml/20ml

Method 310.1
Instrument ID: MET-1
Sample Volume(s): 50ml/50ml

Method 353.2
Instrument ID: Kone-1
Volume(s): 20ml/20ml

Method 415.1
Instrument ID: TOC2
Sample Volume(s): 100ml/100ml

Method SM-4500SD
Instrument ID: SPEC06
Volume(s):25ml/25ml

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and preparations took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial and continuing calibration verifications were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. EPA Method 300.0 batch ID B[G1814-BLK1 a trace detection of Chloride was noted in the method blank. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements were met.

Note: EPA Method 353.2 client requested sample 17-20018-08 was not used as QC sample.

CHAIN OF CUSTODY

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

17-20018

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn: Tina Green
Lab Phone# 661-852-4204

DATE: 7/20/2017
COC #: COC170720
PAGE: 1 OF 2

Project Name:	Alameda Basewide	Project Contact:	Marie Bevier	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	Courier
Project Manager:	Kevin Oness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	Diss. Metals As & Cu	Diss.Gas- RSK175	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	26MW03_170720	07/20/17 13:50	WG	N	N	X			X	X	X	X							
2	26MW08_170720	07/20/17 13:25	WG	N	N	X			X	X	X	X							
3	DUP06_170720	07/20/17 09:45	WG	FD	N	X													
4	M14-06_170720	07/20/17 08:35	WG	N	N	X		X	X	X	X		X						
5	M14-09D_170720	07/20/17 10:55	WG	N	N	X		X	X	X	X		X						
6	M14-09S_170720	07/20/17 12:35	WG	N	N	X		X	X	X	X		X						
7	M14-14_170720	07/20/17 09:40	WG	N	N	X		X	X	X	X		X						
8	M14-17R_170720	07/20/17 13:30	WG	N	Y	X		X	X	X	X		X						
9	M14-18_170720	07/20/17 12:00	WG	N	N	X		X	X	X	X		X						
10	M14-20D_170720	07/20/17 11:15	WG	N	N	X		X	X	X	X		X						
11	M14-21_170720	07/20/17 10:20	WG	N	N	X		X	X	X	X		X						
12	SB02_170720	07/20/17 11:10	WG	SB	N	X	X												

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
GSP MAR MT JAR
SUBCONT

Sampler's Signature:	Date: 07/20/2017	Time: 15:40	
Relinquished By/Affiliation:	Date: 7/20/17	Time: 15:40	
Received By:	Date: 7/20/17	Time: 15:40	
Relinquished By/Affiliation:	Date: 7-20-17	Time: 1800	
Received By:	Date: 7/20/17	Time: 19:00	
Relinquished By/Affiliation:	Date: 7/20/17	Time: 2310	
Received By (LAB):	Date: 7-20	Time: 2310	

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values
VOC Short List: Benzene and Ethylbenzene Only
Major Cations: Na^+, K^+, Ca^{++}, Mg^{++}

NUMBER OF COOLERS SENT:

CHAIN OF CUSTODY

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

17-20018

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn: Tina Green
Lab Phone# 661-852-4204

DATE: 7/20/2017
COC #: COC170720
PAGE: 2 OF 2

Project Name:	Alameda Basewide	Project Contact:	Marie Bevier	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	Courier
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	Diss. Metals As & Cu	Diss.Gas- RSK175	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TDS (EPA 160.1)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
1	EB17_170720	07/20/17 14:20	WG	EB	N	X													
2	EB18_170720	07/20/17 14:25	WG	EB	N	X													
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Methods for Analysis

Sampler's Signature:	Date: 07/20/2017	Time: 15:00	
Relinquished By/Affiliation:	Date: 7/20/17	Time: 15:00	
Received By:	Date: 7/20/17	Time: 15:00	
Relinquished By/Affiliation:	Date: 7-20-17	Time: 1900	
Received By:	Date: 7/20/17	Time: 19:00	
Relinquished By/Affiliation:	Date: 7/20/17	Time: 2310	
Received By (LAB):	Date: 7-20	Time: 2310	

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values
VOC Short List: Benzene and Ethylbenzene Only
Major Cations: Na^+, K^+, Ca^{++}, Mg^{++}

NUMBER OF COOLERS SENT:

Chain of Custody and Cooler Receipt Form for 1720018 Page 3 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 4

Submission #: 17-20018

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ (W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE 1 qt Thermometer ID: 208 Date/Time 7/20/17 2258

Temperature: (A) 3.5 °C / (C) 3.8 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	A-1	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ 125K 175			DEF	DEF	DEF	DEF	J-R	DEF	DEF	DEF
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: Date/Time: 7-20 1330

A = Actual / C = Corrected

Rev 21 05/23/2016

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Chain of Custody and Cooler Receipt Form for 1720018 Page 4 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 4

Submission #: 17-20018

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PG 1 qt Blu. Thermometer ID: 208 Date/Time 7/20/17 2258

Temperature: (A) 3.5 °C / (C) 3.8 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC						
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- ~~504~~ RSK-175	DEF									
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: M Date/Time: 7/20 2340
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1720018 Page 5 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 4

Submission #: 17-20018

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received
☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/20/17 2258
Temperature: (A) 0.2 °C / (C) 0.5 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	~~5~~	~~6~~	~~8~~	~~9~~	~~10~~	~~11~~	9	10
QT PE UNPRES					DT					
4oz / 8oz / 16oz PE UNPRES	DEF	DEF	GH	GH		GH	GH	GH		
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	G	G	I	I	UVW	I	I	I		
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON			J	J	XYZ	J	J	J		
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 7-20 2349
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1720018 Page 6 of 6

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 4

Submission #: 17-20018

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/20/17 2258
Temperature: (A) 0.4 °C / (C) 0.7 °C Analyst Init RWR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	(4)	5	6	(7)	8	9	10
QT PE UNPRES										
4oz / (8oz) / 16oz PE UNPRES				GH			GH			
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE				I			I			
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON				J			J			
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 7-20 2353
A = Actual / C = Corrected

Rev 21 05/23/2016
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AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **GC**
Method: **RSK-175M**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-18_170720	1720018-09
M14-20D_170720	1720018-10
M14-21_170720	1720018-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: GC-V1

Analyte	DL	LOD	LOQ	Units
Methane	0.00013	0.0006	0.001	mg/L
Ethane	0.00049	0.001	0.002	mg/L
Ethene	0.00058	0.001	0.002	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-06_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-04	File ID:	02AUG12.D
Sampled:	07/20/17 08:35	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 13:46
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.0092	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-09D_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-05	File ID:	02AUG13.D
Sampled:	07/20/17 10:55	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 13:50
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.016	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-09S_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-06	File ID:	02AUG14.D
Sampled:	07/20/17 12:35	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 13:56
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.023	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-14_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-07	File ID:	02AUG15.D
Sampled:	07/20/17 09:40	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 14:07
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.013	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-17R_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-08	File ID:	02AUG16.D
Sampled:	07/20/17 13:30	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 14:20
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.037	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-18_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-09	File ID:	02AUG19.D
Sampled:	07/20/17 12:00	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 14:54
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.071	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-20D_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-10	File ID:	02AUG17.D
Sampled:	07/20/17 11:15	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 14:30
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.057	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-21_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-11	File ID:	02AUG18.D
Sampled:	07/20/17 10:20	Prepared:	07/31/17 11:31	Analyzed:	08/02/17 14:39
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.011	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2607
Batch Matrix: Water
Preparation: RSK-175M

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
M14-06_170720	1720018-04	02AUG12.D	07/31/17 11:31	
M14-09D_170720	1720018-05	02AUG13.D	07/31/17 11:31	
M14-09S_170720	1720018-06	02AUG14.D	07/31/17 11:31	
M14-14_170720	1720018-07	02AUG15.D	07/31/17 11:31	
M14-17R_170720	1720018-08	02AUG16.D	07/31/17 11:31	
M14-18_170720	1720018-09	02AUG19.D	07/31/17 11:31	
M14-20D_170720	1720018-10	02AUG17.D	07/31/17 11:31	
M14-21_170720	1720018-11	02AUG18.D	07/31/17 11:31	
Blank	B[G2607-BLK1	02AUG04.D	07/31/17 11:31	
LCS	B[G2607-BS1	02AUG05.D	07/31/17 11:31	
LCS Dup	B[G2607-BSD1	02AUG06.D	07/31/17 11:31	

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METHOD BLANK DATA SHEET
RSK-175M

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2607-BLK1	File ID:	02AUG04.D
Prepared:	07/31/17 11:31	Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Analyzed:	08/02/17 12:50	Instrument:	GC-V1		
Batch:	B[G2607	Sequence:	1713649	Calibration:	1702007

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.00060	0.00013	0.00060	0.0010	U
74-84-0	Ethane	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	0.0010	0.00058	0.0010	0.0020	U

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LCS RECOVERY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2607
Laboratory ID: B[G2607-BS1
Preparation: RSK-175M
Initial/Final: 1 ml / 1 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Methane	0.010843	0.010899	101	73 - 125
Ethane	0.021736	0.024574	113	74 - 131
Ethene	0.028446	0.027999	98.4	72 - 133

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methane	0.010843	0.010690	98.6	1.94	20	73 - 125
Ethane	0.021736	0.023208	107	5.72	20	74 - 131
Ethene	0.028446	0.026315	92.5	6.20	20	72 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1701454-CAL4	27JAN02.D	01/27/17 07:43
Cal Standard	1701454-CAL3	27JAN03.D	01/27/17 07:47
Cal Standard	1701454-CAL2	27JAN04.D	01/27/17 07:52
Cal Standard	1701454-CAL1	27JAN05.D	01/27/17 07:56
Initial Cal Check	1701454-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1701454-ICB1	27JAN07.D	01/27/17 08:45

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ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713649
Instrument: GC-V1
Matrix: Water
Calibration: 1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713649-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1713649-ICB1	27JAN07.D	01/27/17 08:45
Calibration Check	1713649-CCV1	02AUG02.D	08/02/17 12:36
Calibration Blank	1713649-CCB1	02AUG03.D	08/02/17 12:46
Blank	B[G2607-BLK1	02AUG04.D	08/02/17 12:50
LCS	B[G2607-BS1	02AUG05.D	08/02/17 12:56
LCS Dup	B[G2607-BSD1	02AUG06.D	08/02/17 13:02
Calibration Check	1713649-CCV2	02AUG10.D	08/02/17 13:30
Calibration Blank	1713649-CCB2	02AUG11.D	08/02/17 13:41
M14-06_170720	1720018-04	02AUG12.D	08/02/17 13:46
M14-09D_170720	1720018-05	02AUG13.D	08/02/17 13:50
M14-09S_170720	1720018-06	02AUG14.D	08/02/17 13:56
M14-14_170720	1720018-07	02AUG15.D	08/02/17 14:07
M14-17R_170720	1720018-08	02AUG16.D	08/02/17 14:20
M14-20D_170720	1720018-10	02AUG17.D	08/02/17 14:30
M14-21_170720	1720018-11	02AUG18.D	08/02/17 14:39
M14-18_170720	1720018-09	02AUG19.D	08/02/17 14:54
Calibration Check	1713649-CCV3	02AUG20.D	08/02/17 15:04
Calibration Blank	1713649-CCB3	02AUG21.D	08/02/17 15:09
Calibration Check	1713649-CCV4	02AUG32.D	08/02/17 16:05
Calibration Blank	1713649-CCB4	02AUG33.D	08/02/17 16:13

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1701454	Injection Date:	01/27/17
Lab Sample ID:	1701454-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1713649	Injection Date:	01/27/17
Lab Sample ID:	1713649-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	02AUG02.D	Calibration Date:	01/27/17 07:43
Sequence:	1713649	Injection Date:	08/02/17
Lab Sample ID:	1713649-CCV1	Injection Time:	12:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.379	605292.5	579388.7		-4.3	15
Ethane	A	21.736	24.028	580938.9	642153.6		10.5	15
Ethene	A	28.446	28.299	402477.4	400401.1		-0.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	02AUG10.D	Calibration Date:	01/27/17 07:43
Sequence:	1713649	Injection Date:	08/02/17
Lab Sample ID:	1713649-CCV2	Injection Time:	13:30

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.130	605292.5	565485.3		-6.6	15
Ethane	A	21.736	24.361	580938.9	651067.4		12.1	15
Ethene	A	28.446	28.825	402477.4	407835.2		1.3	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	02AUG20.D	Calibration Date:	01/27/17 07:43
Sequence:	1713649	Injection Date:	08/02/17
Lab Sample ID:	1713649-CCV3	Injection Time:	15:04

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.904	605292.5	608690.2		0.6	15
Ethane	A	21.736	24.268	580938.9	648585.3		11.6	15
Ethene	A	28.446	28.734	402477.4	406549.6		1.0	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	02AUG32.D	Calibration Date:	01/27/17 07:43
Sequence:	1713649	Injection Date:	08/02/17
Lab Sample ID:	1713649-CCV4	Injection Time:	16:05

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.689	605292.5	596676.8		-1.4	15
Ethane	A	21.736	24.561	580938.9	656420.7		13.0	15
Ethene	A	28.446	28.287	402477.4	400231.3		-0.6	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION STANDARDS

RSK-175M

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1701454
Calibration: 1702007

SDG: 17-20018
Project: Alameda
Instrument: GC-V1

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7B07024	RSK-175M CAL4	1701454-CAL4	27JAN02.D	01/27/17 07:43
7B07023	RSK-175M CAL3	1701454-CAL3	27JAN03.D	01/27/17 07:47
7B07022	RSK-175M CAL2	1701454-CAL2	27JAN04.D	01/27/17 07:52
7B07021	RSK-175M CAL1	1701454-CAL1	27JAN05.D	01/27/17 07:56

AMEC Environmental & Infrastructure-
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INITIAL CALIBRATION DATA
RSK-175M

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Calibration: 1702007
Matrix: Water

SDG: 17-20018
Project: Alameda
Instrument: GC-V1
Calibration Date: 01/27/17 07:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methane	1.0843	637975.6	10.843	692654	108.43	493653.4	542.15	596887.1				
Ethane	2.1736	586625.4	21.736	661756.1	217.36	501173.7	1086.8	574200.6				
Ethene	2.8446	439934.3	28.446	440075.9	284.46	333630.7	1422.3	396268.7				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1702007
Instrument: GC-V1
Matrix: Water
Calibration Date: 01/27/17 07:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methane	605292.5	13.89926	0.73	1.372967E-02			20	
Ethane	580938.9	11.31896	2.0825	0.4599198			20	
Ethene	402477.4	12.50156	1.7325	0.5526404			20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 13:46	13.00	14.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 13:50	13.00	14.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 13:56	13.00	14.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 14:07	13.00	14.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 14:20	13.00	14.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 14:54	13.00	14.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 14:30	13.00	14.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/31/17 11:31	13.00	14.00	08/02/17 14:39	13.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument GC-V1

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG12.D Vial: 12
Acq On : 2 Aug 2017 1:46 pm Operator: JH2
Sample : 1720018-04 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:22 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.73	5564799	9.1936 ug/L m
2) m	Ethene	0.00	0	N.D. ug/L d
3) m	Ethane	0.00	0	N.D. ug/L d

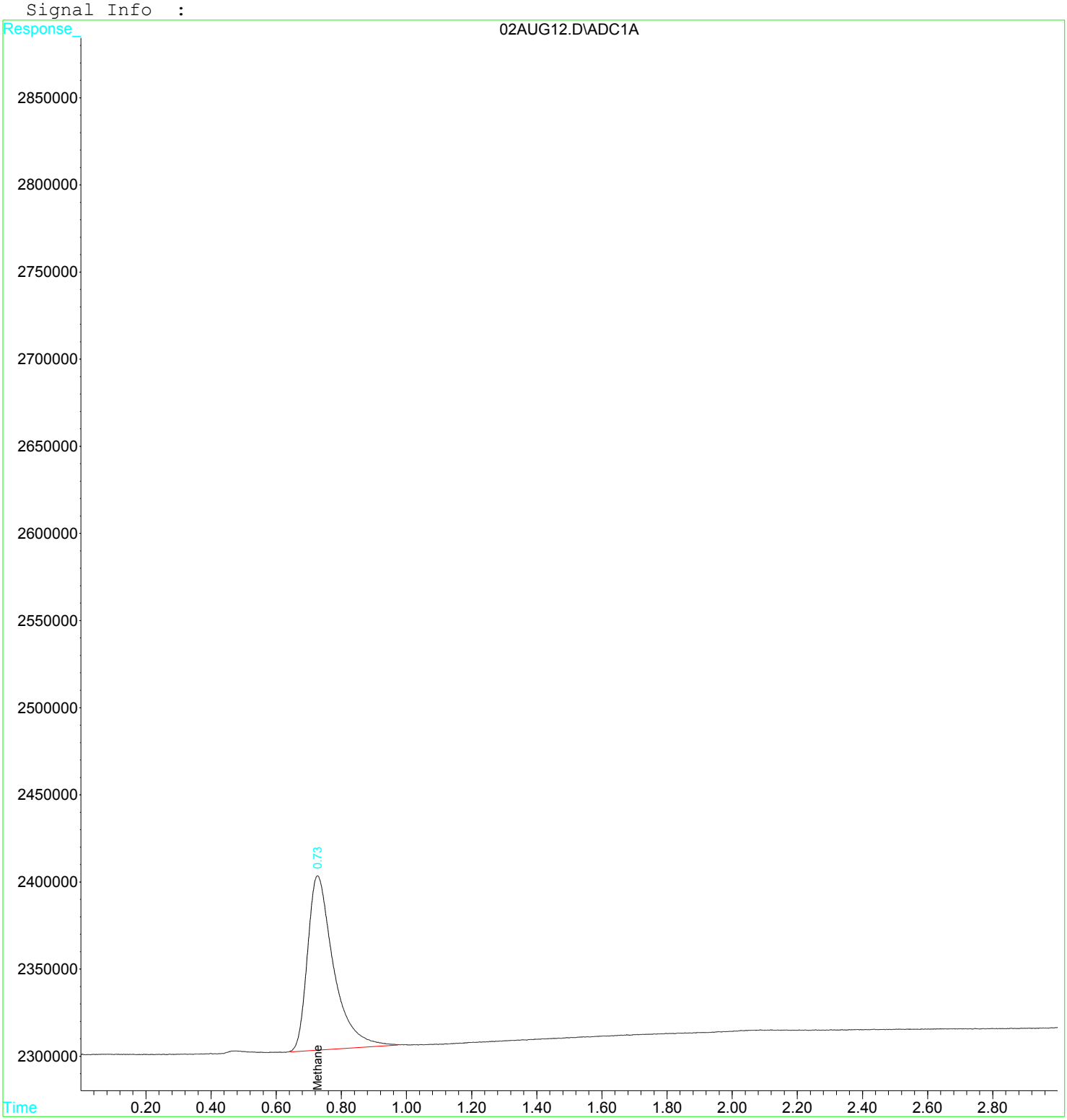
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG12.D Vial: 12
Acq On : 2 Aug 2017 1:46 pm Operator: JH2
Sample : 1720018-04 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:22 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

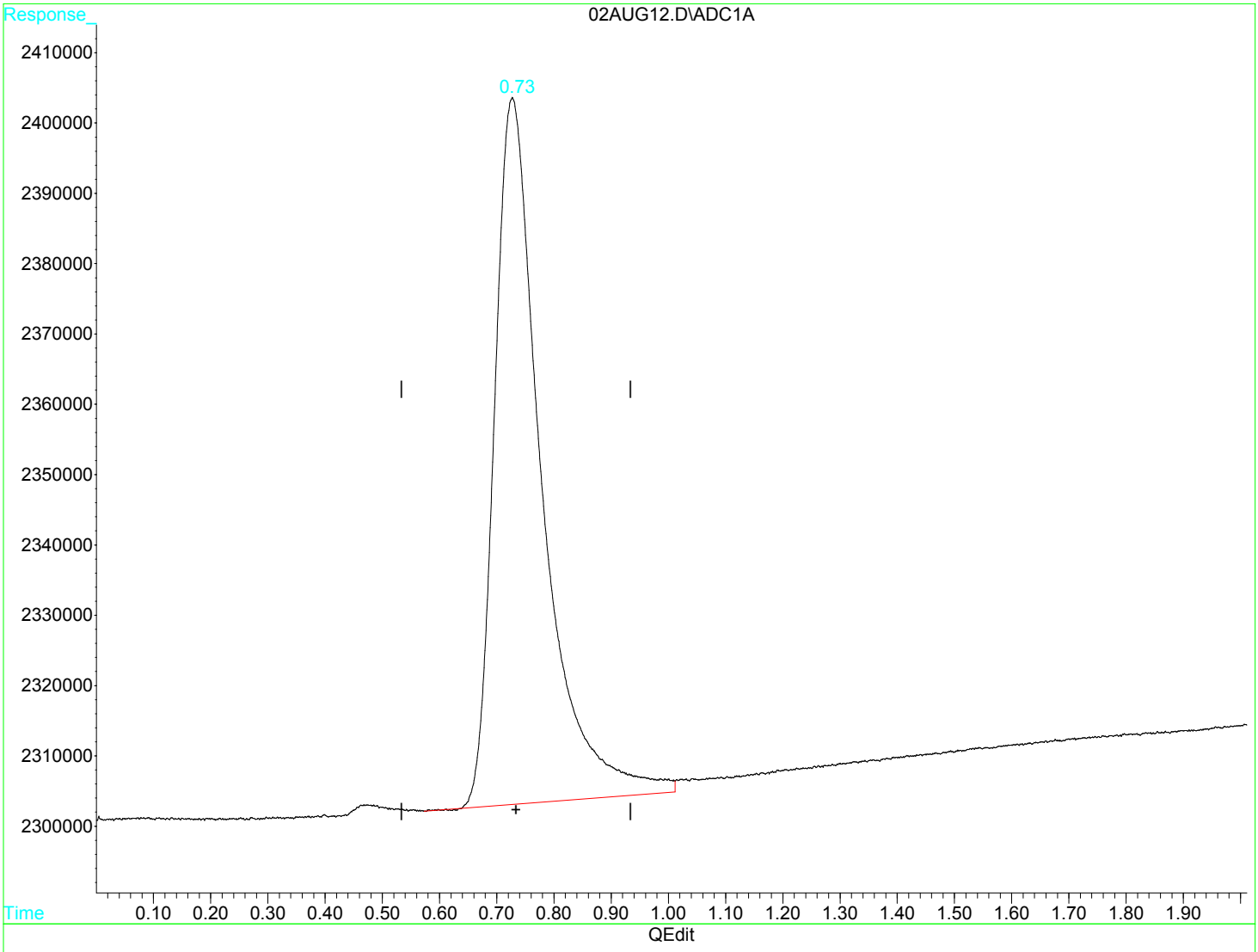
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG12.D Vial: 12
Acq On : 2 Aug 2017 1:46 pm Operator: JH2
Sample : 1720018-04 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:49 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 9.551ug/L

response 5781440

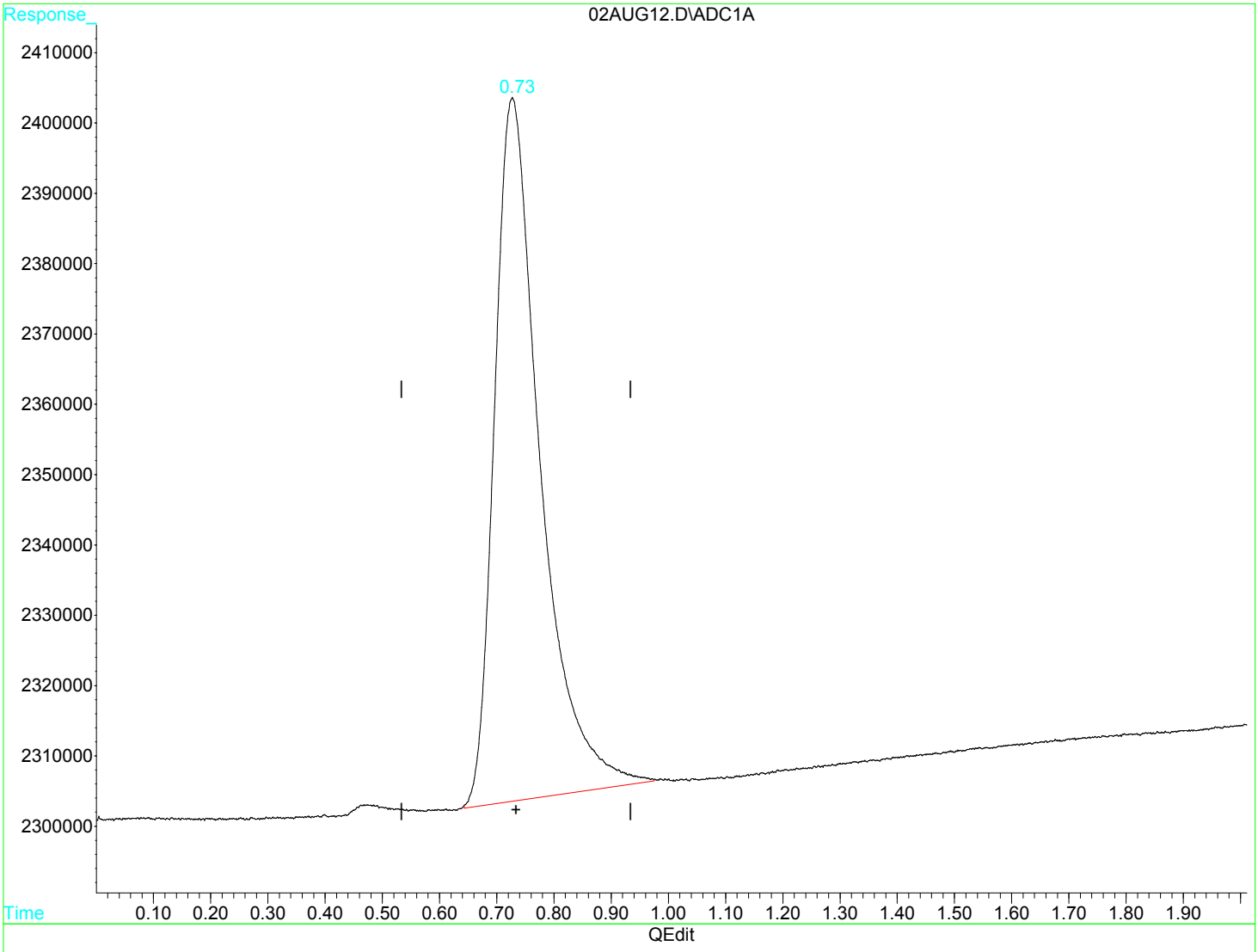
(+) = Expected Retention Time

02AUG12.D RSK175.M Wed Aug 02 14:22:43 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG12.D Vial: 12
Acq On : 2 Aug 2017 1:46 pm Operator: JH2
Sample : 1720018-04 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:49 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 9.194ug/L m

response 5564799

(+) = Expected Retention Time

02AUG12.D RSK175.M Wed Aug 02 14:22:48 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG13.D Vial: 13
Acq On : 2 Aug 2017 1:50 pm Operator: JH2
Sample : 1720018-05 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:23 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.71	9536505	15.7552	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

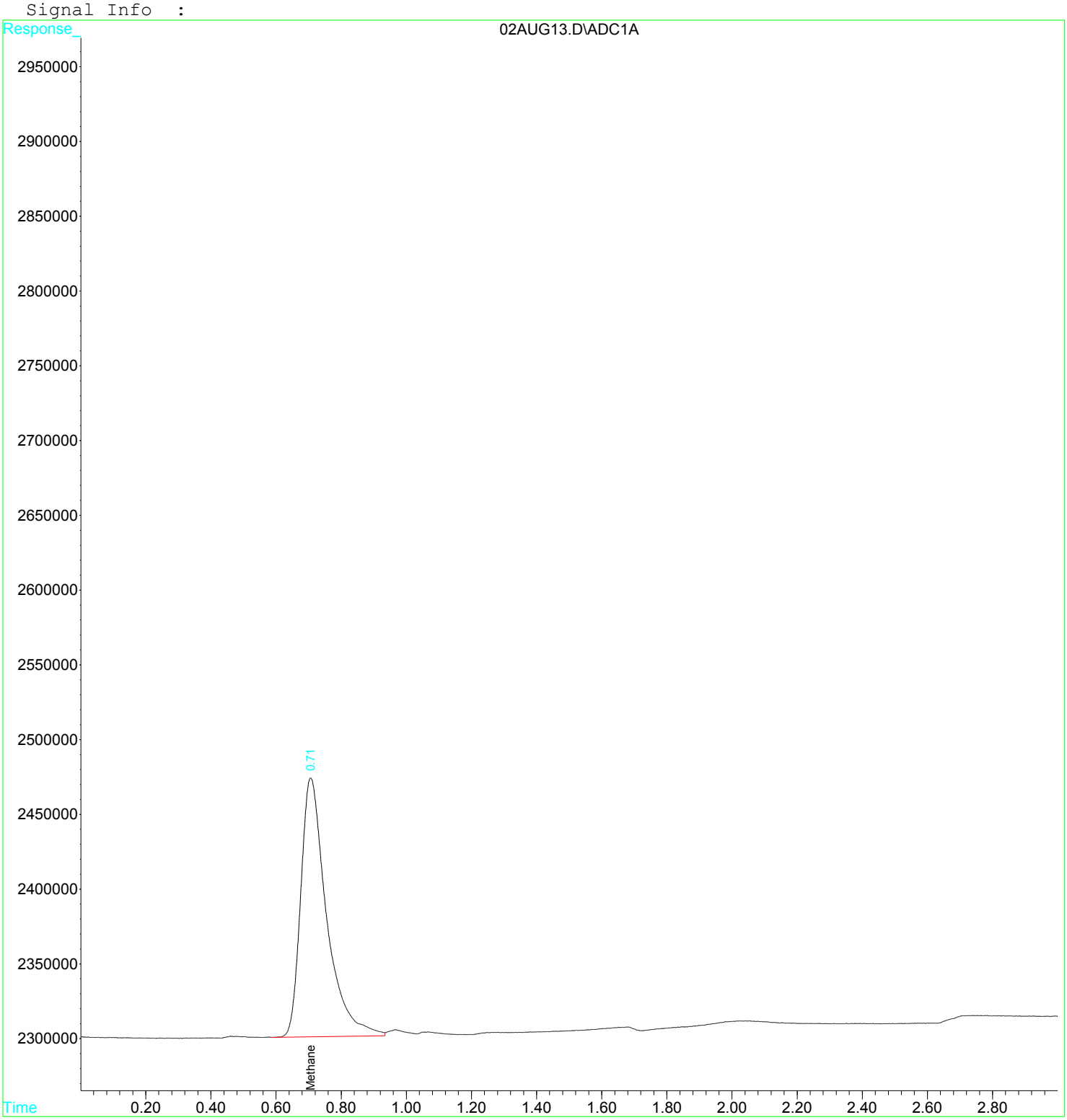
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG13.D Vial: 13
Acq On : 2 Aug 2017 1:50 pm Operator: JH2
Sample : 1720018-05 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:23 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

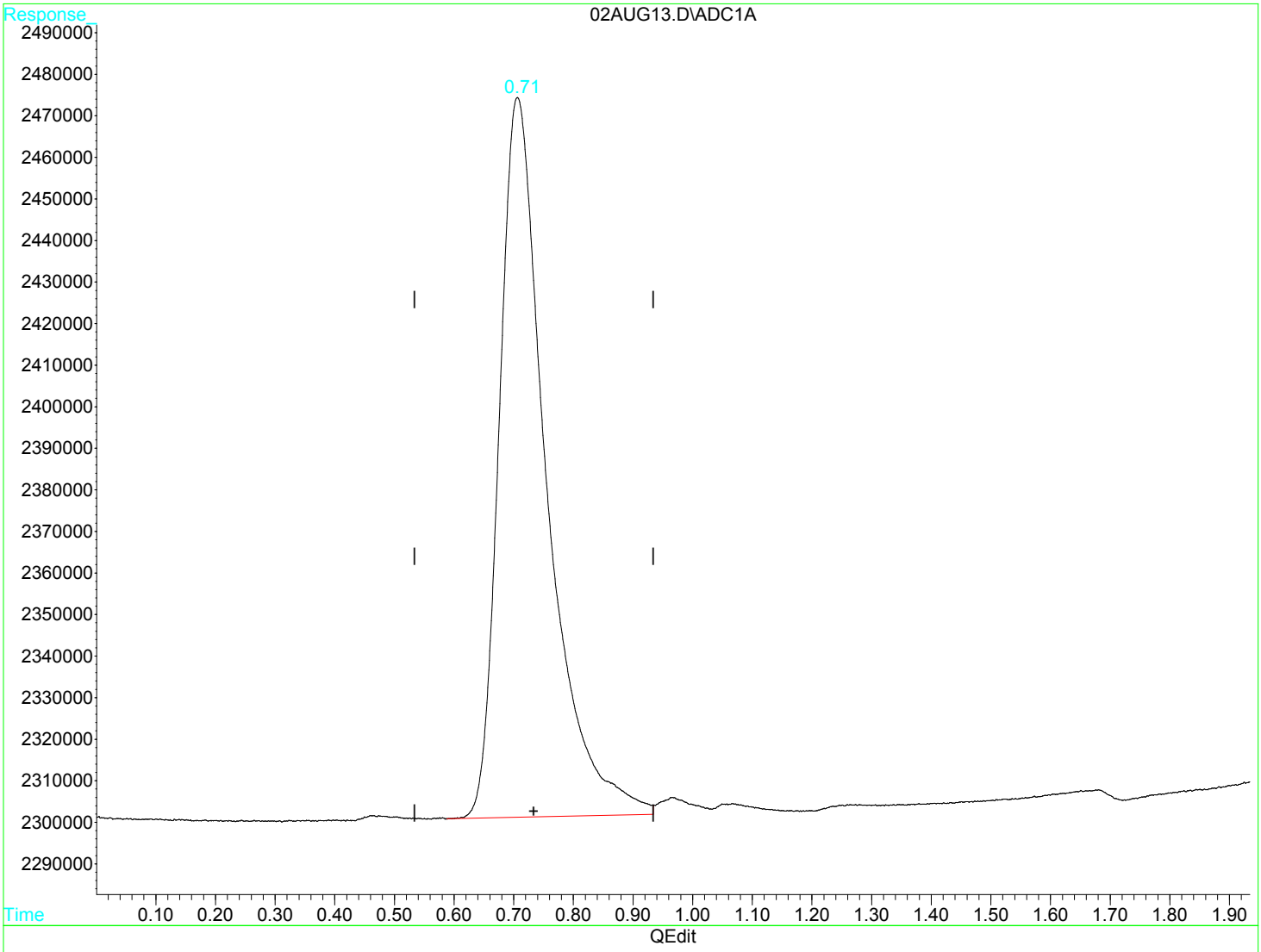
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG13.D Vial: 13
Acq On : 2 Aug 2017 1:50 pm Operator: JH2
Sample : 1720018-05 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:53 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.71min 15.755ug/L

response 9536505

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG14.D Vial: 14
Acq On : 2 Aug 2017 1:56 pm Operator: JH2
Sample : 1720018-06 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:23 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.74	13622552	22.5057	ug/L	m
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	

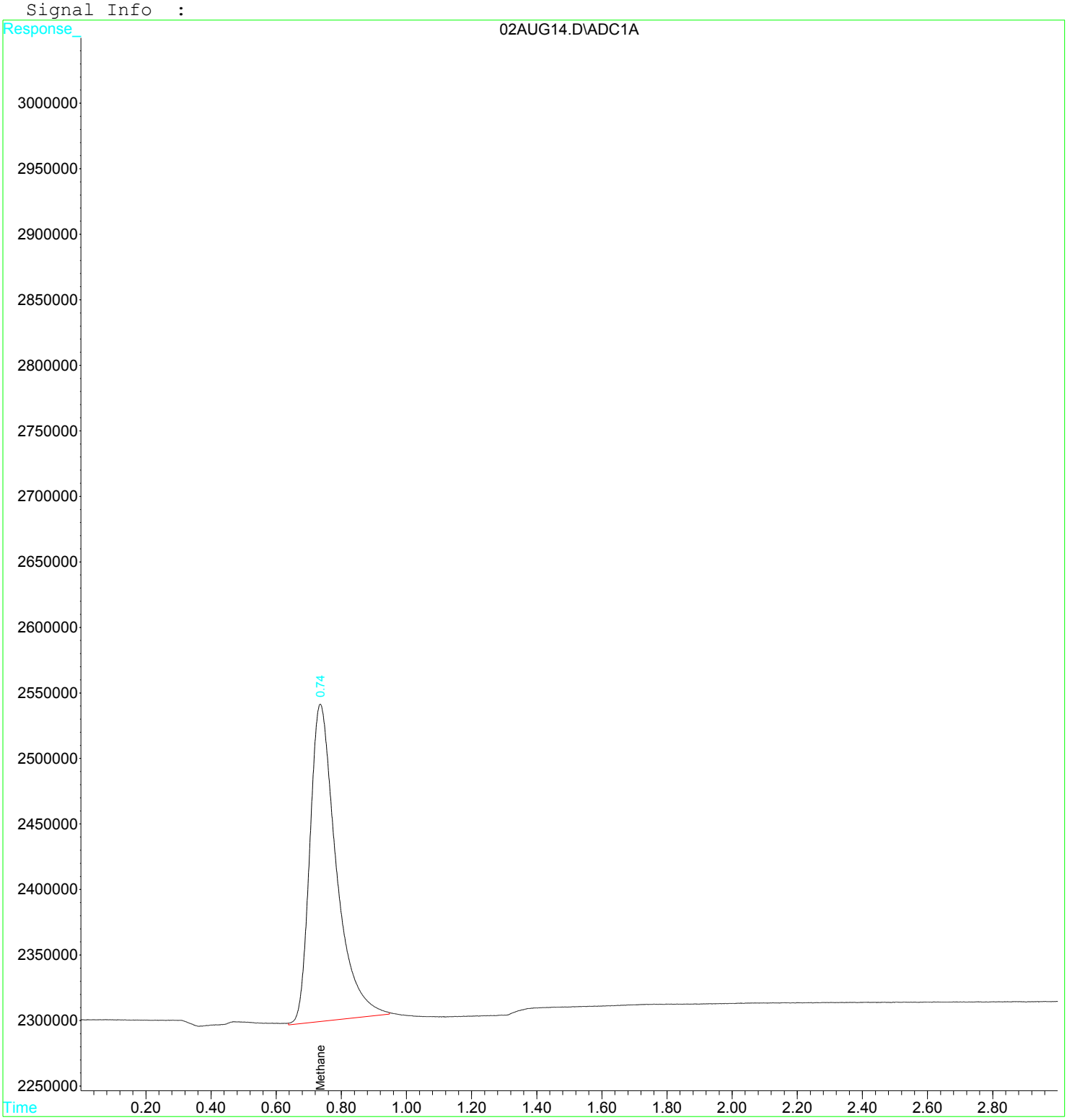
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG14.D Vial: 14
Acq On : 2 Aug 2017 1:56 pm Operator: JH2
Sample : 1720018-06 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:23 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

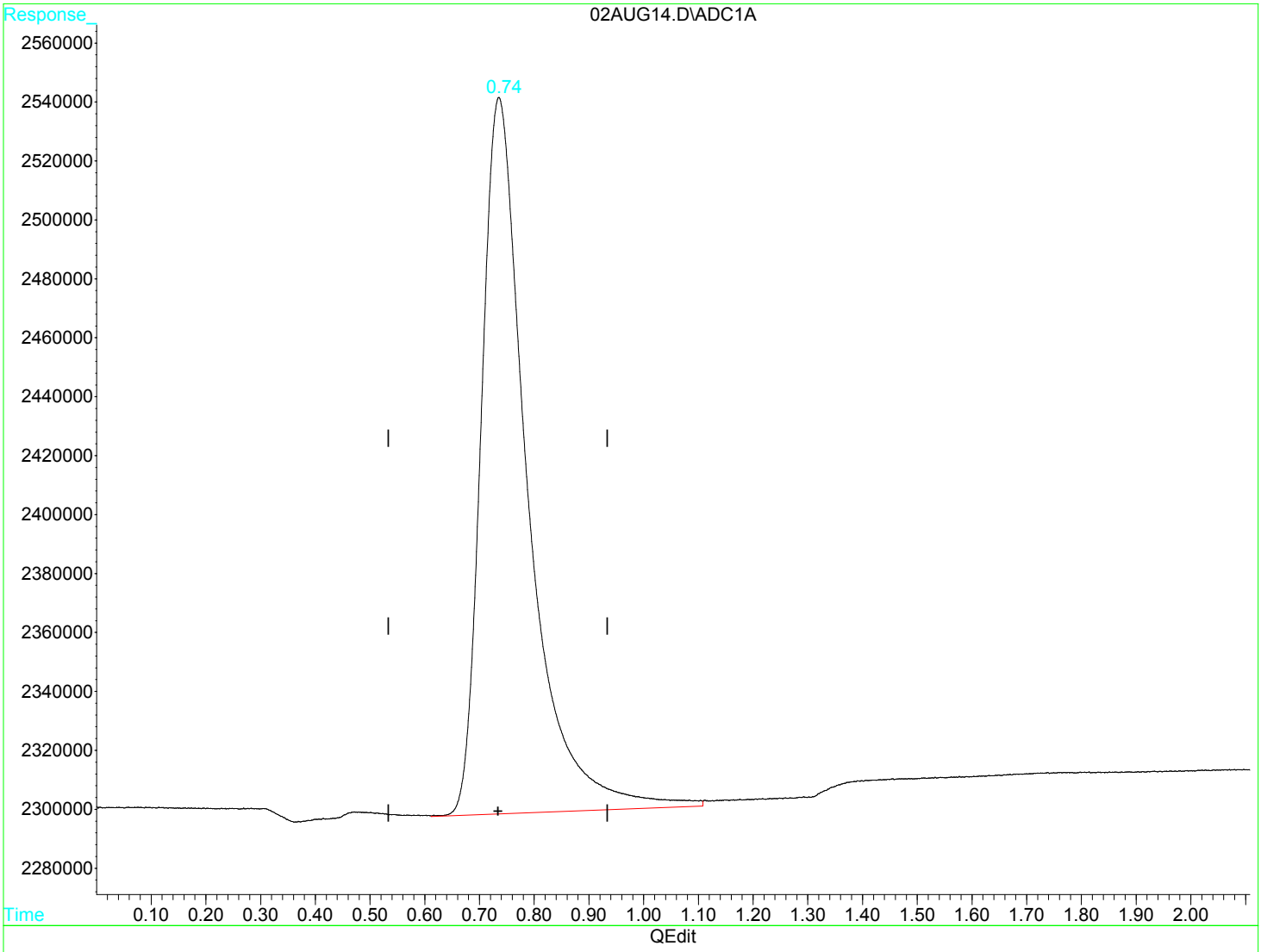
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG14.D Vial: 14
Acq On : 2 Aug 2017 1:56 pm Operator: JH2
Sample : 1720018-06 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 23.653ug/L

response 14317266

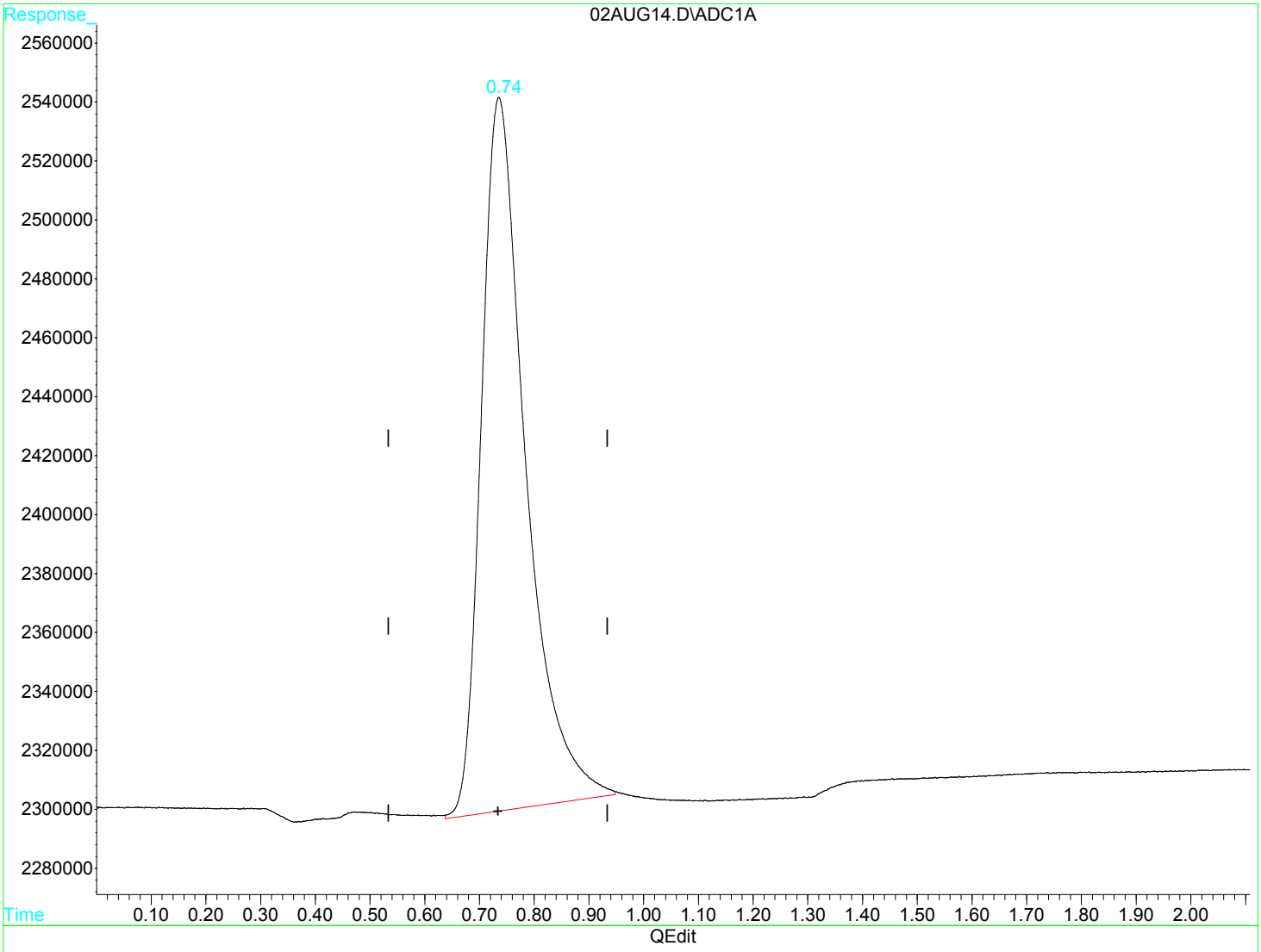
(+) = Expected Retention Time

02AUG14.D RSK175.M Wed Aug 02 14:23:31 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG14.D Vial: 14
Acq On : 2 Aug 2017 1:56 pm Operator: JH2
Sample : 1720018-06 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 22.506ug/L m

response 13622552

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG15.D Vial: 15
Acq On : 2 Aug 2017 2:07 pm Operator: JH2
Sample : 1720018-07 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:24 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.74	7721491	12.7566	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

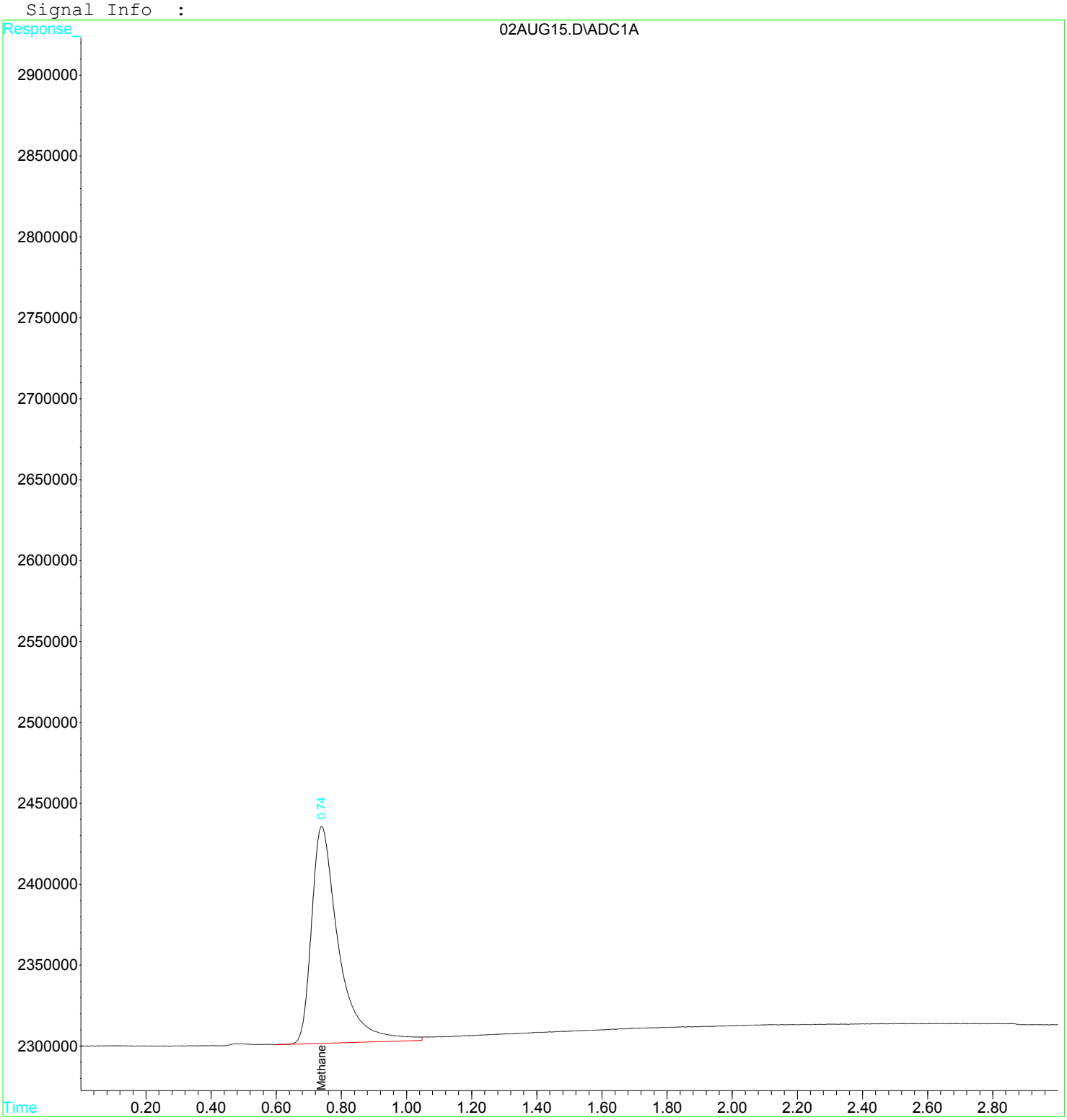
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG15.D Vial: 15
Acq On : 2 Aug 2017 2:07 pm Operator: JH2
Sample : 1720018-07 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:24 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

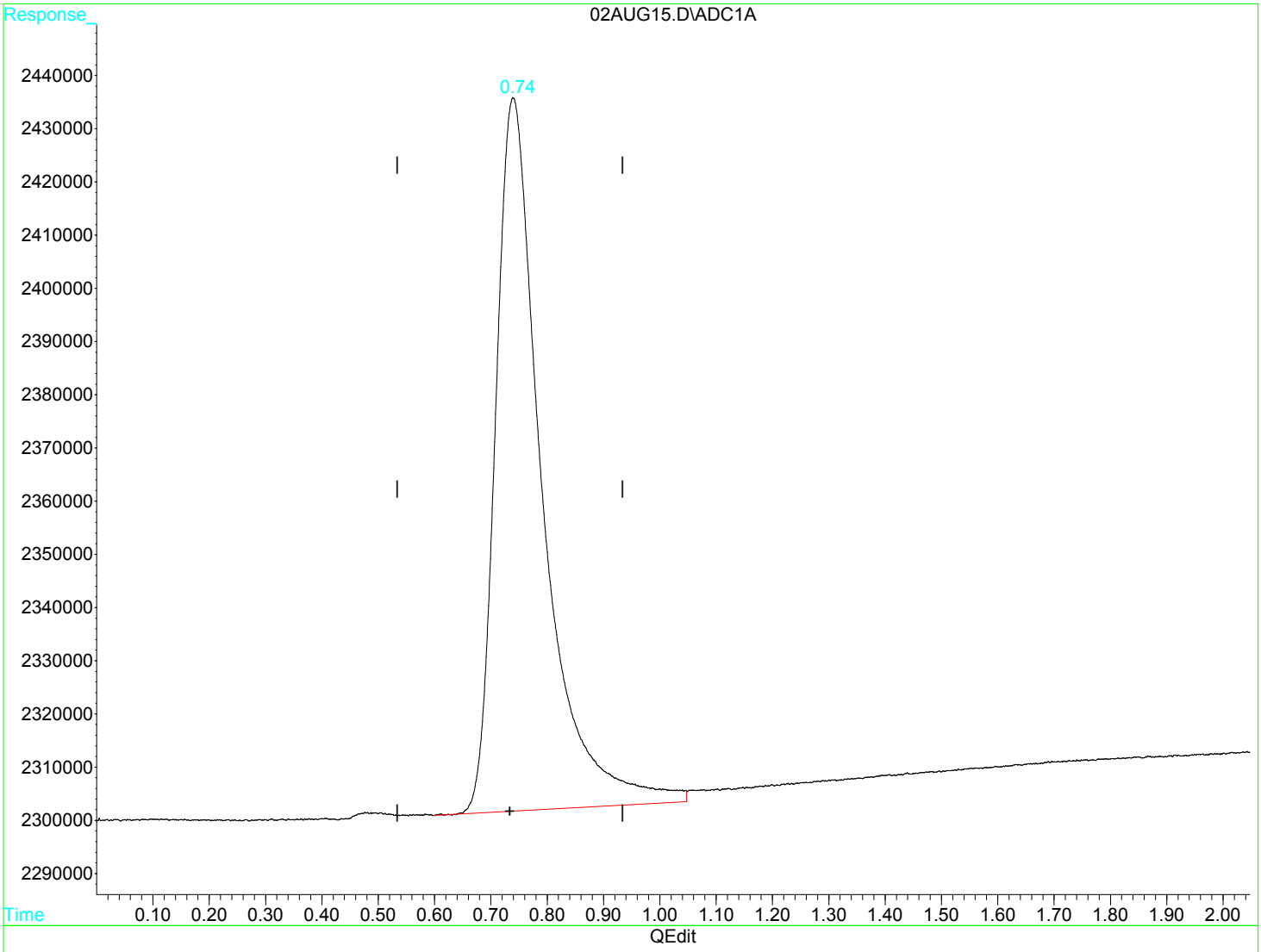
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG15.D Vial: 15
Acq On : 2 Aug 2017 2:07 pm Operator: JH2
Sample : 1720018-07 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:10 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 12.757ug/L

response 7721491

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG16.D Vial: 16
Acq On : 2 Aug 2017 2:20 pm Operator: JH2
Sample : 1720018-08 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:24 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.74	22642239	37.4071	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

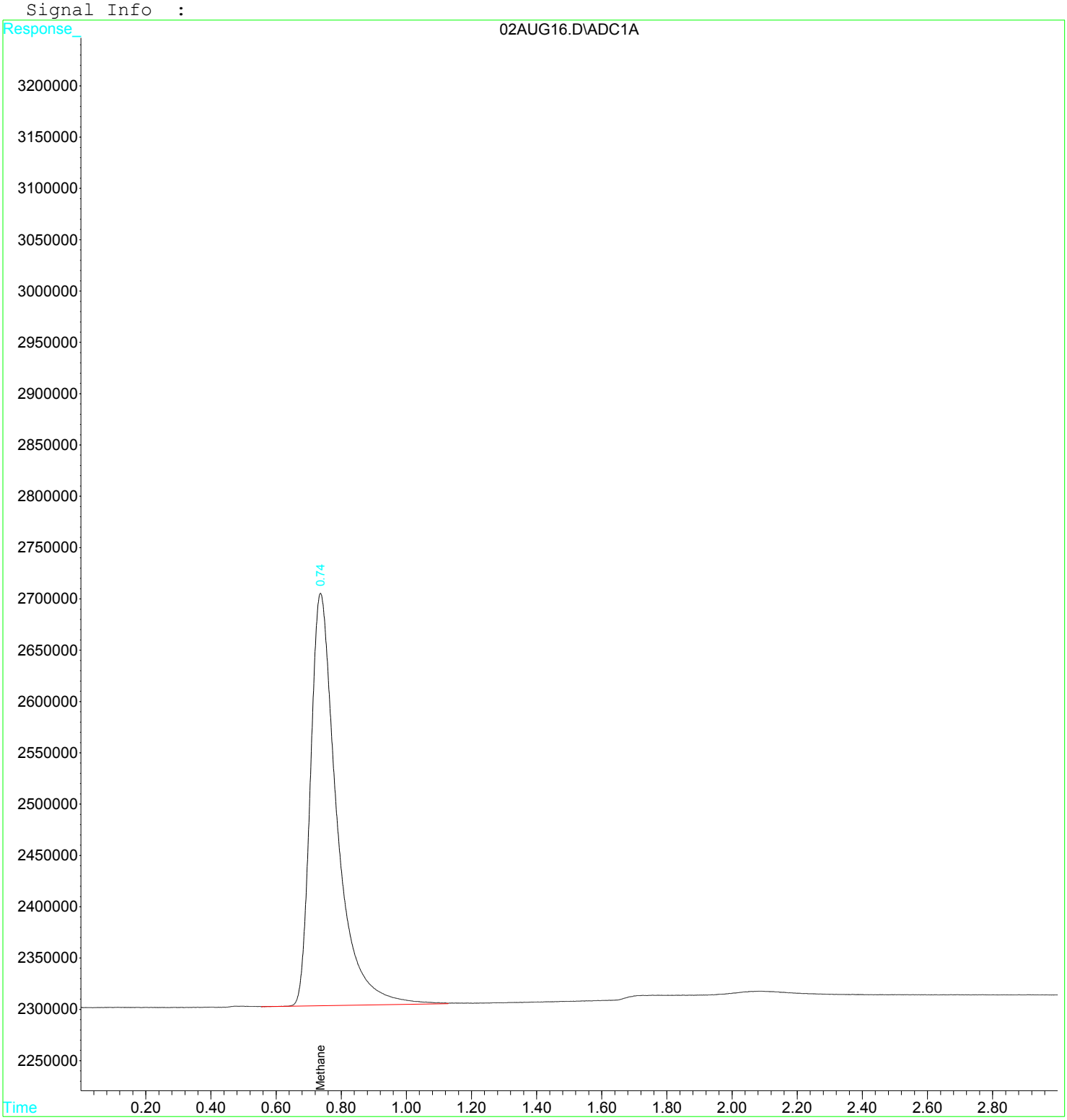
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG16.D Vial: 16
Acq On : 2 Aug 2017 2:20 pm Operator: JH2
Sample : 1720018-08 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:24 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

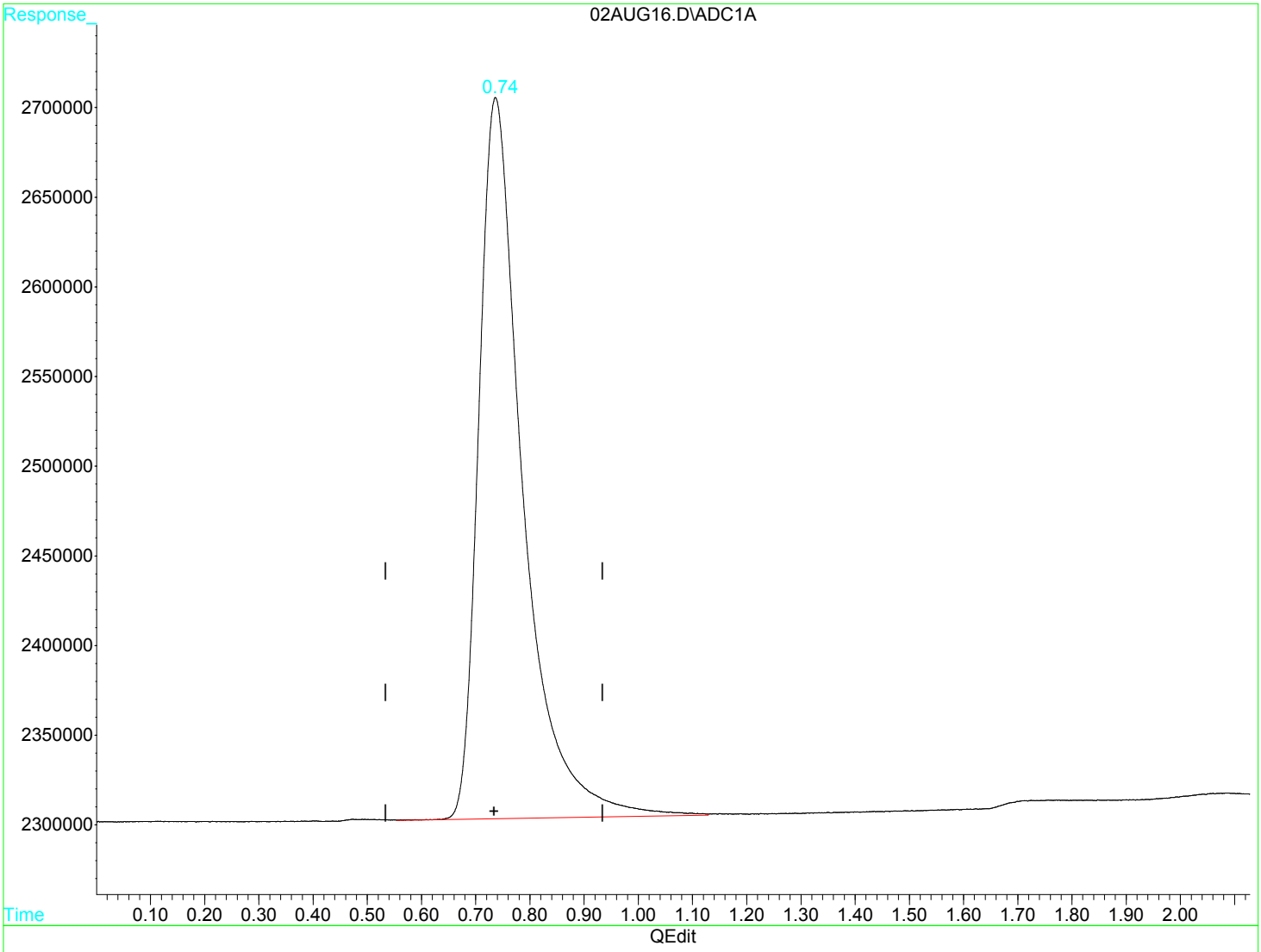
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG16.D Vial: 16
Acq On : 2 Aug 2017 2:20 pm Operator: JH2
Sample : 1720018-08 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:23 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 37.407ug/L

response 22642239

(+) = Expected Retention Time

02AUG16.D RSK175.M Wed Aug 02 14:24:50 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG19.D Vial: 19
Acq On : 2 Aug 2017 2:54 pm Operator: JH2
Sample : 1720018-09 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	42990474	71.0243	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

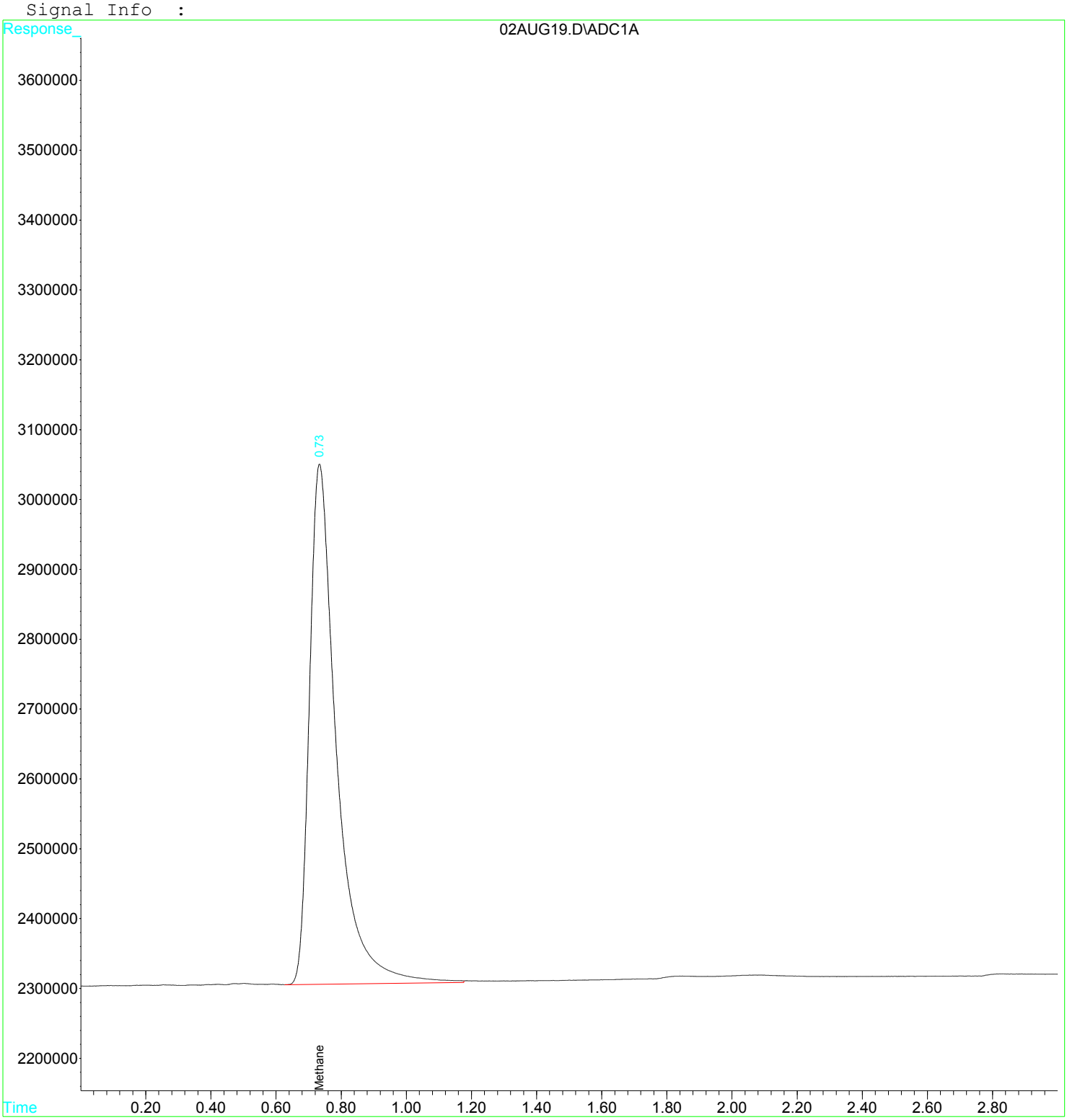
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG19.D Vial: 19
Acq On : 2 Aug 2017 2:54 pm Operator: JH2
Sample : 1720018-09 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

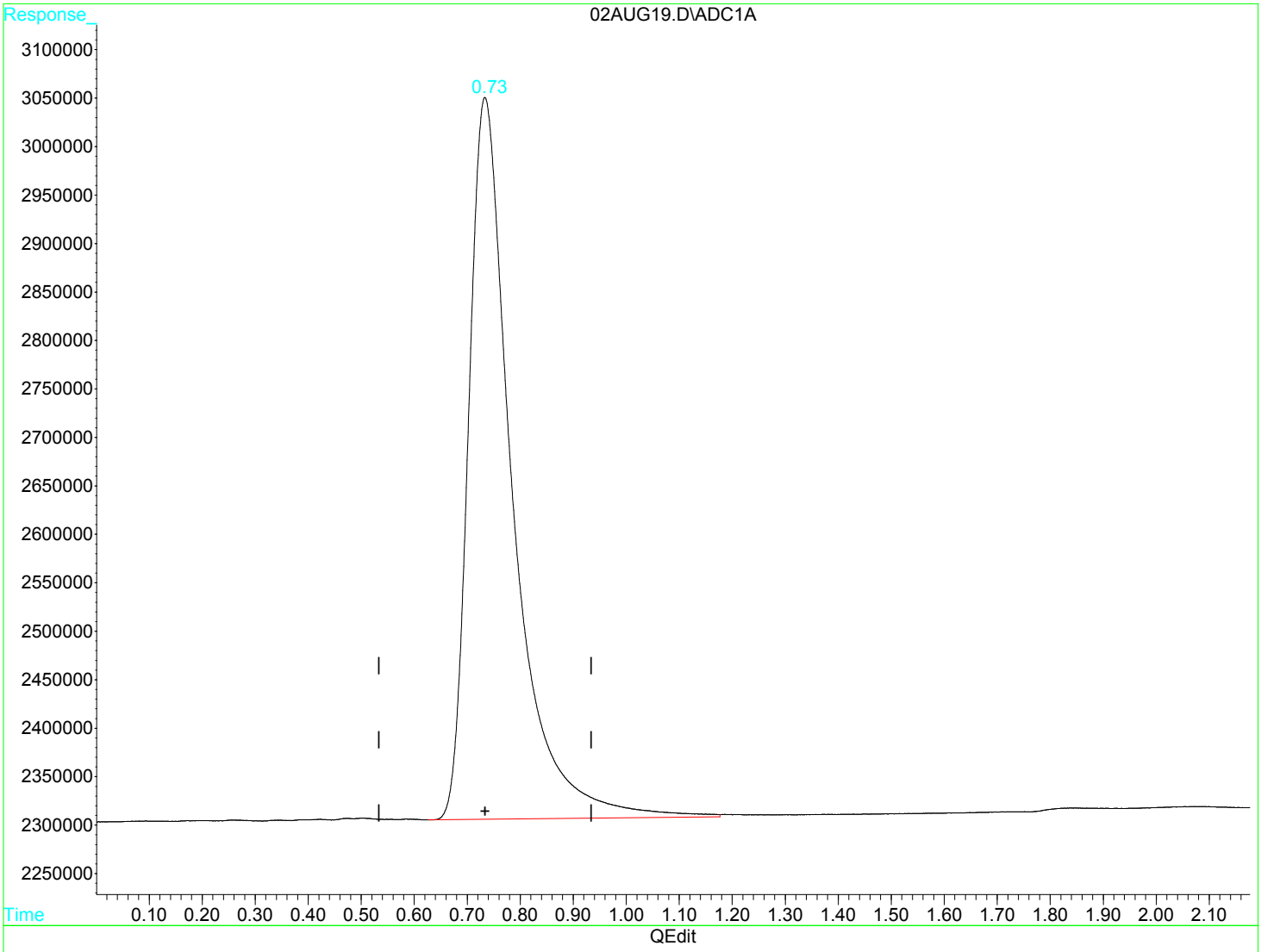
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG19.D Vial: 19
Acq On : 2 Aug 2017 2:54 pm Operator: JH2
Sample : 1720018-09 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:57 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 71.024ug/L

response 42990474

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG17.D Vial: 17
Acq On : 2 Aug 2017 2:30 pm Operator: JH2
Sample : 1720018-10 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:38 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.72	34701105	57.3295 ug/L
2) m Ethene	0.00	0	N.D. ug/L
3) m Ethane	0.00	0	N.D. ug/L d

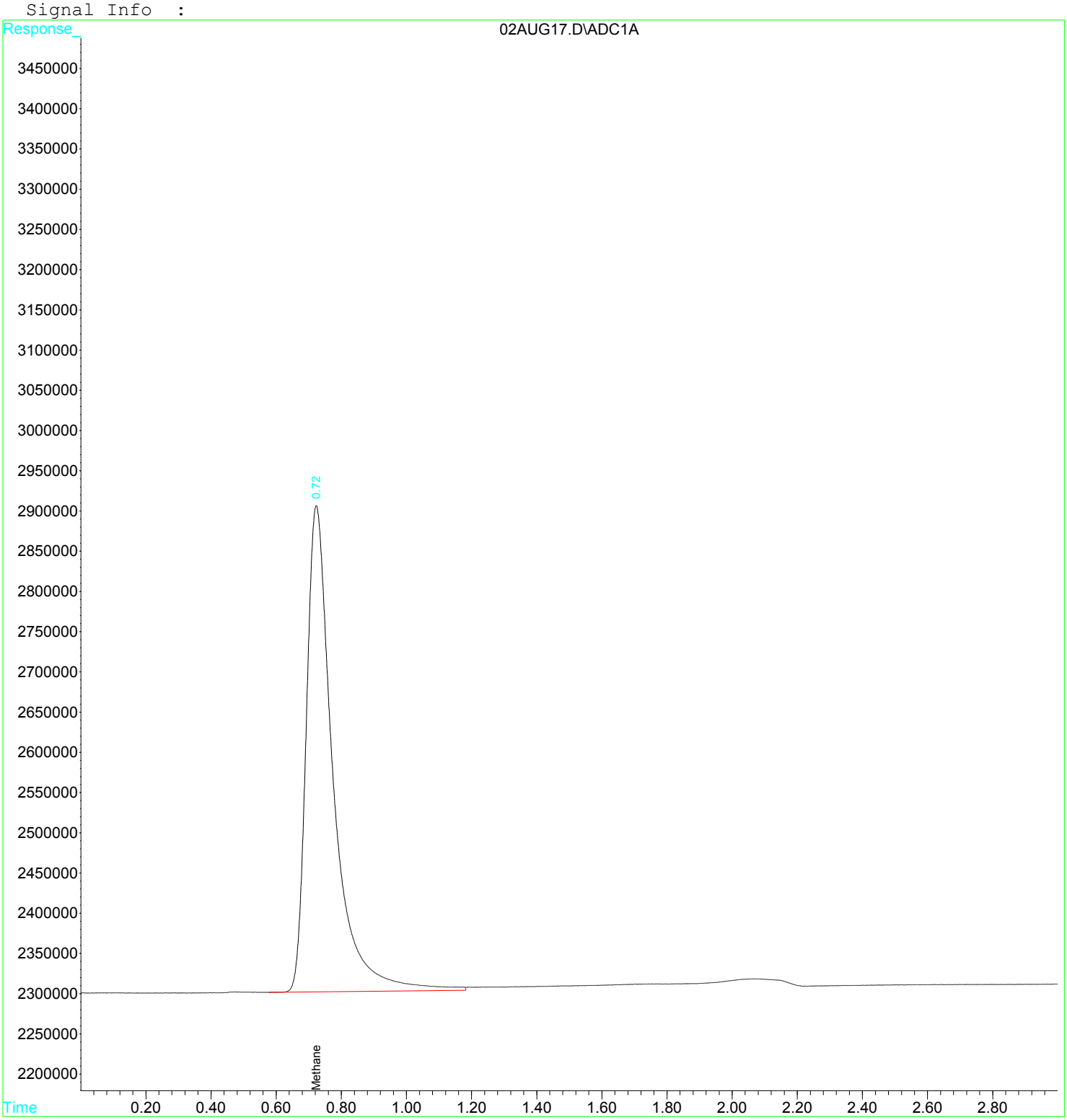
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG17.D Vial: 17
Acq On : 2 Aug 2017 2:30 pm Operator: JH2
Sample : 1720018-10 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:38 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

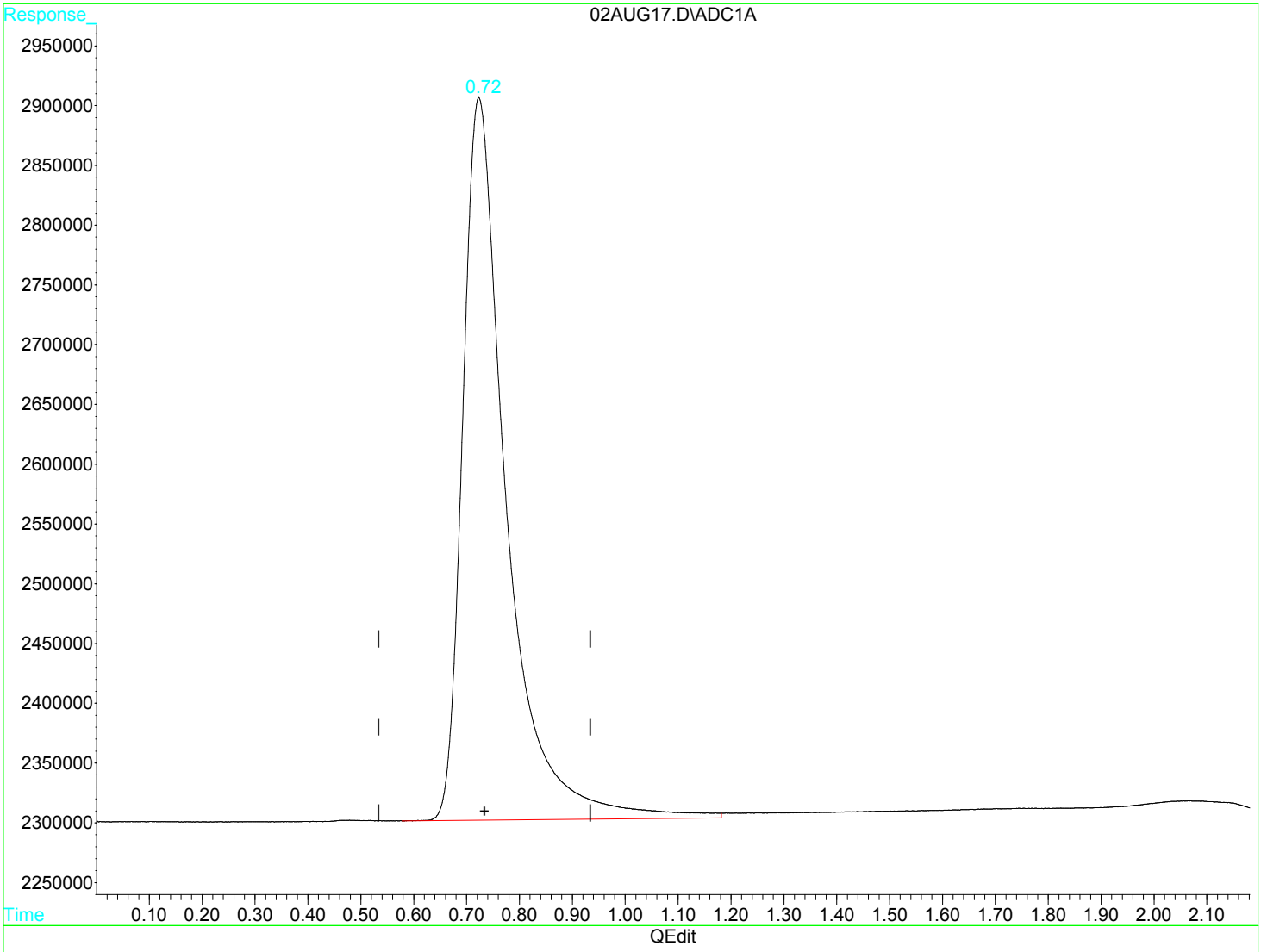
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG17.D Vial: 17
Acq On : 2 Aug 2017 2:30 pm Operator: JH2
Sample : 1720018-10 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 57.329ug/L

response 34701105

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG18.D Vial: 18
Acq On : 2 Aug 2017 2:39 pm Operator: JH2
Sample : 1720018-11 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:43 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.74	6569243	10.8530 ug/L
2) m Ethene	0.00	0	N.D. ug/L d
3) m Ethane	0.00	0	N.D. ug/L d

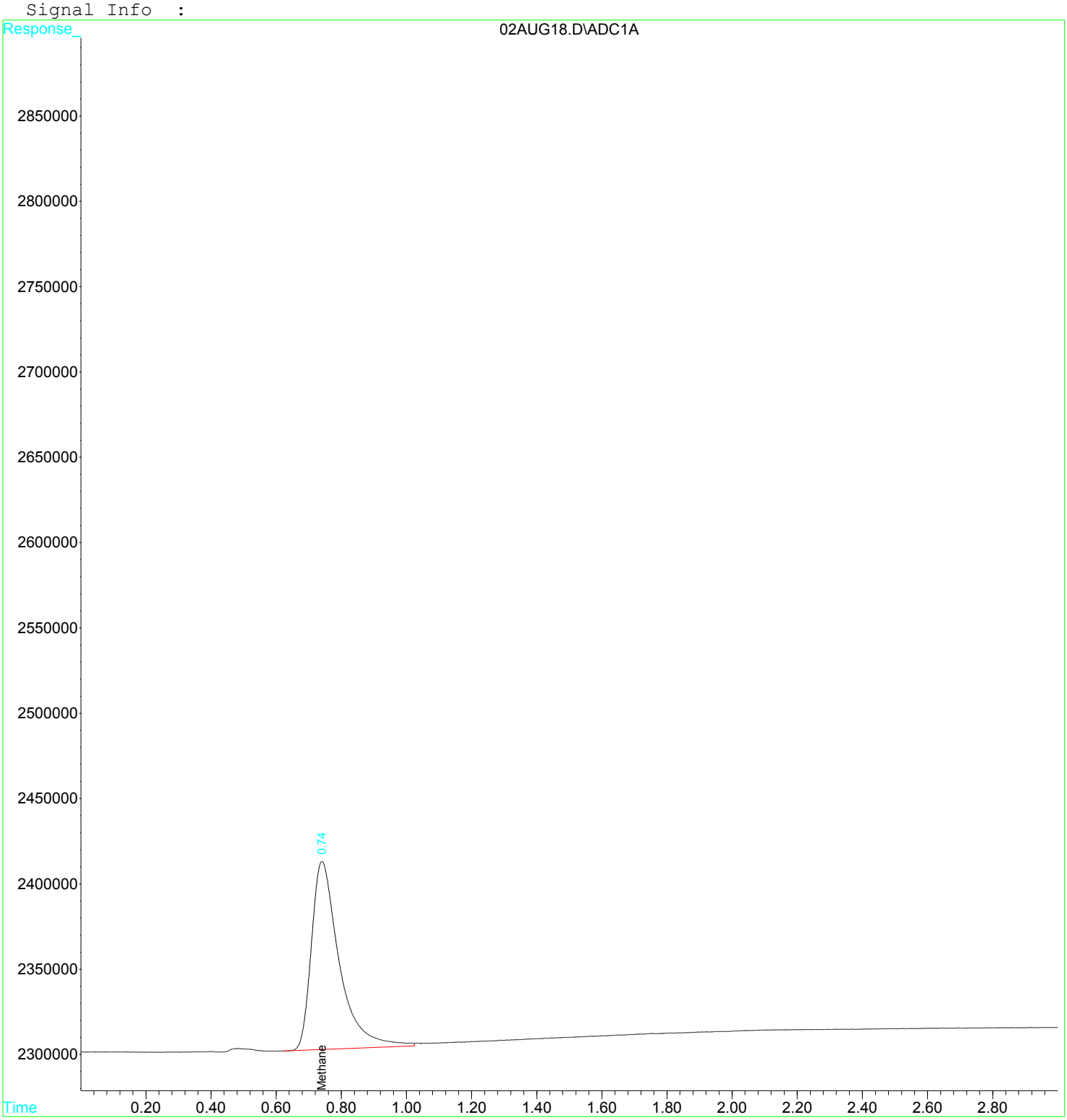
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG18.D Vial: 18
Acq On : 2 Aug 2017 2:39 pm Operator: JH2
Sample : 1720018-11 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:43 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

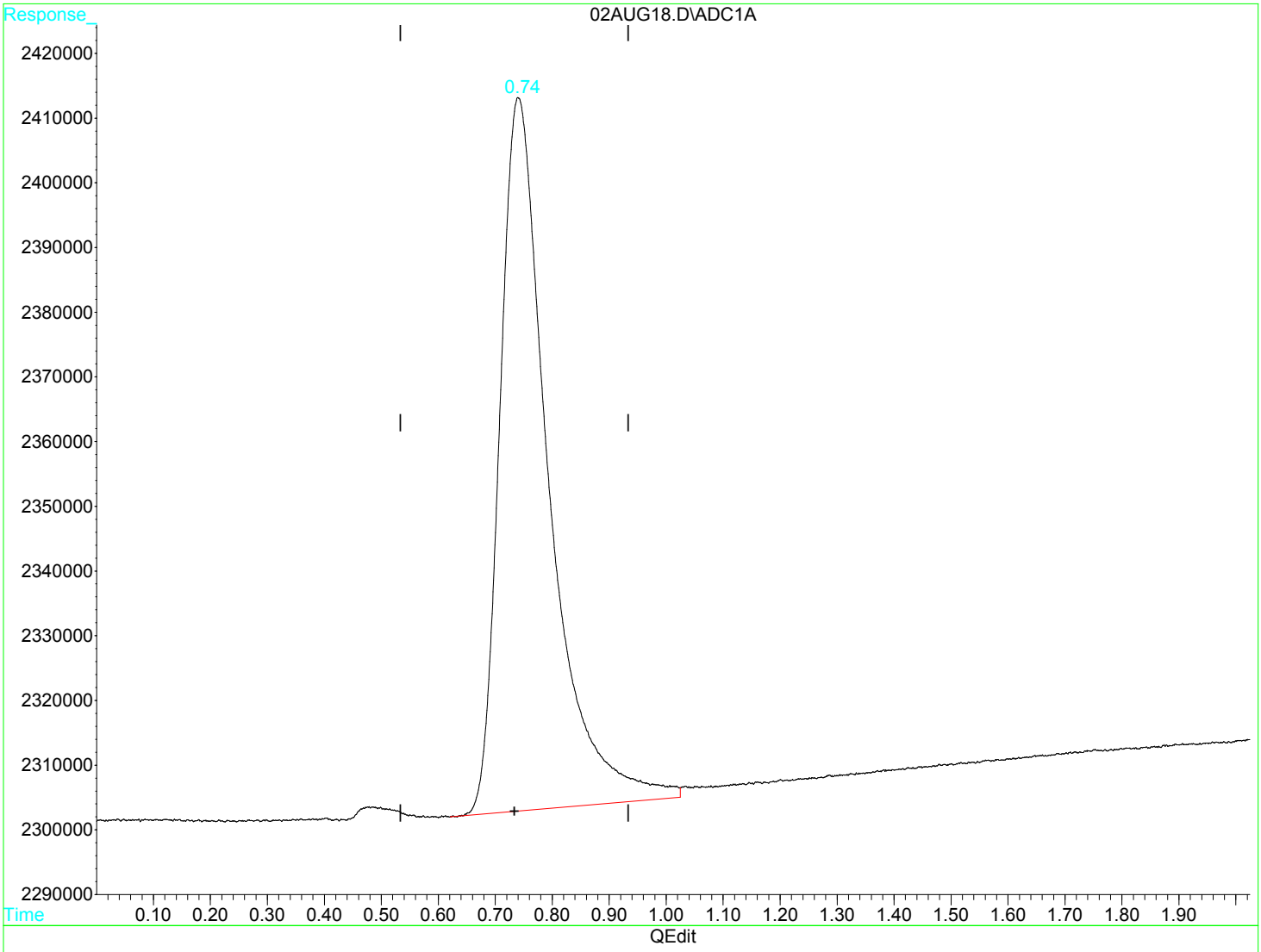
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG18.D Vial: 18
Acq On : 2 Aug 2017 2:39 pm Operator: JH2
Sample : 1720018-11 Inst : GC-V1
Misc : 1 B RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:42 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 10.853ug/L

response 6569243

(+) = Expected Retention Time

Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

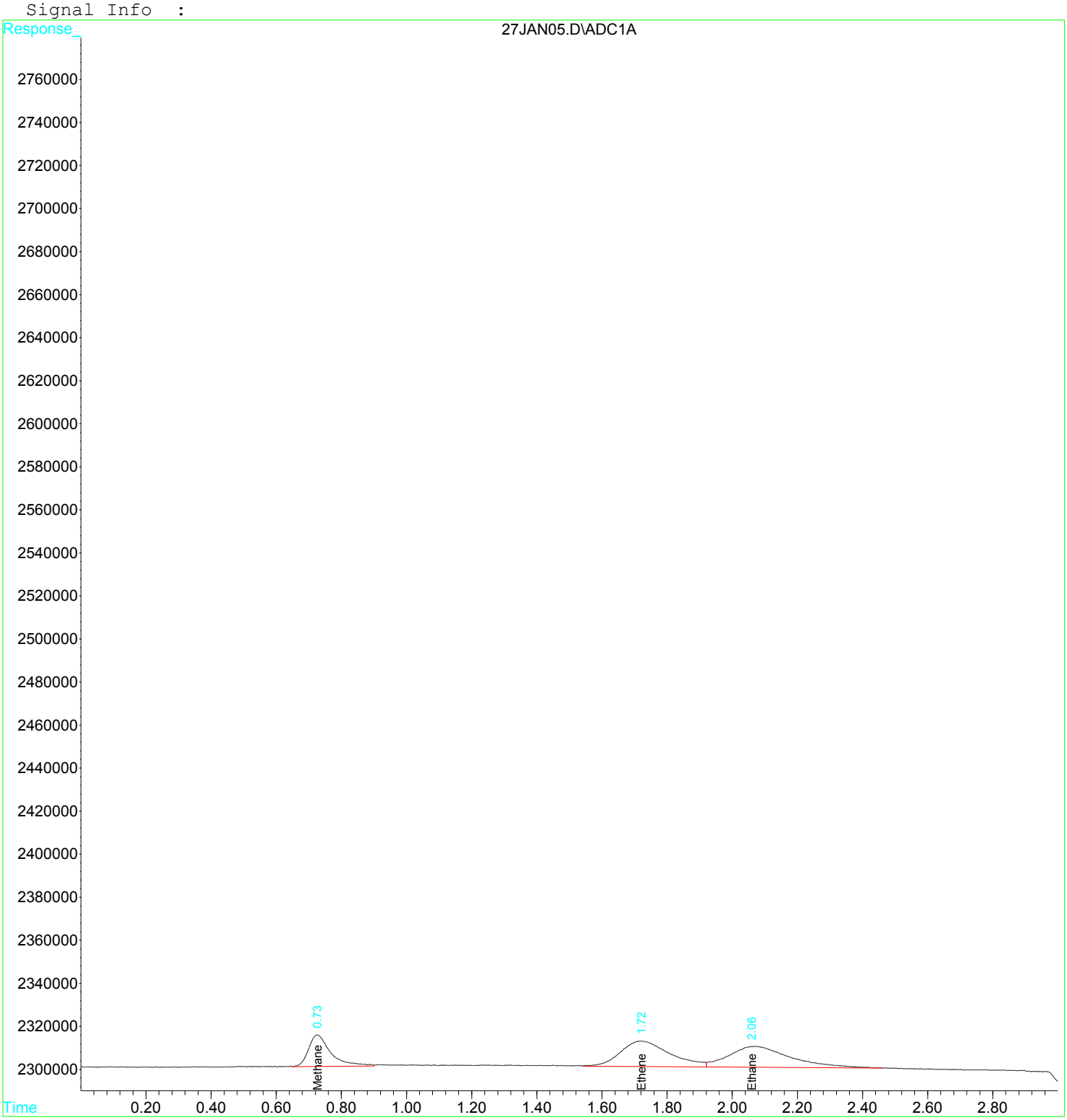
	Compound	R.T.	Response	Conc Units
Target Compounds				
1) m	Methane	0.73	691757	1.1814 ug/L
2) m	Ethene	1.72	1251437	3.2424 ug/L
3) m	Ethane	2.07	1275089	2.2179 ug/L

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

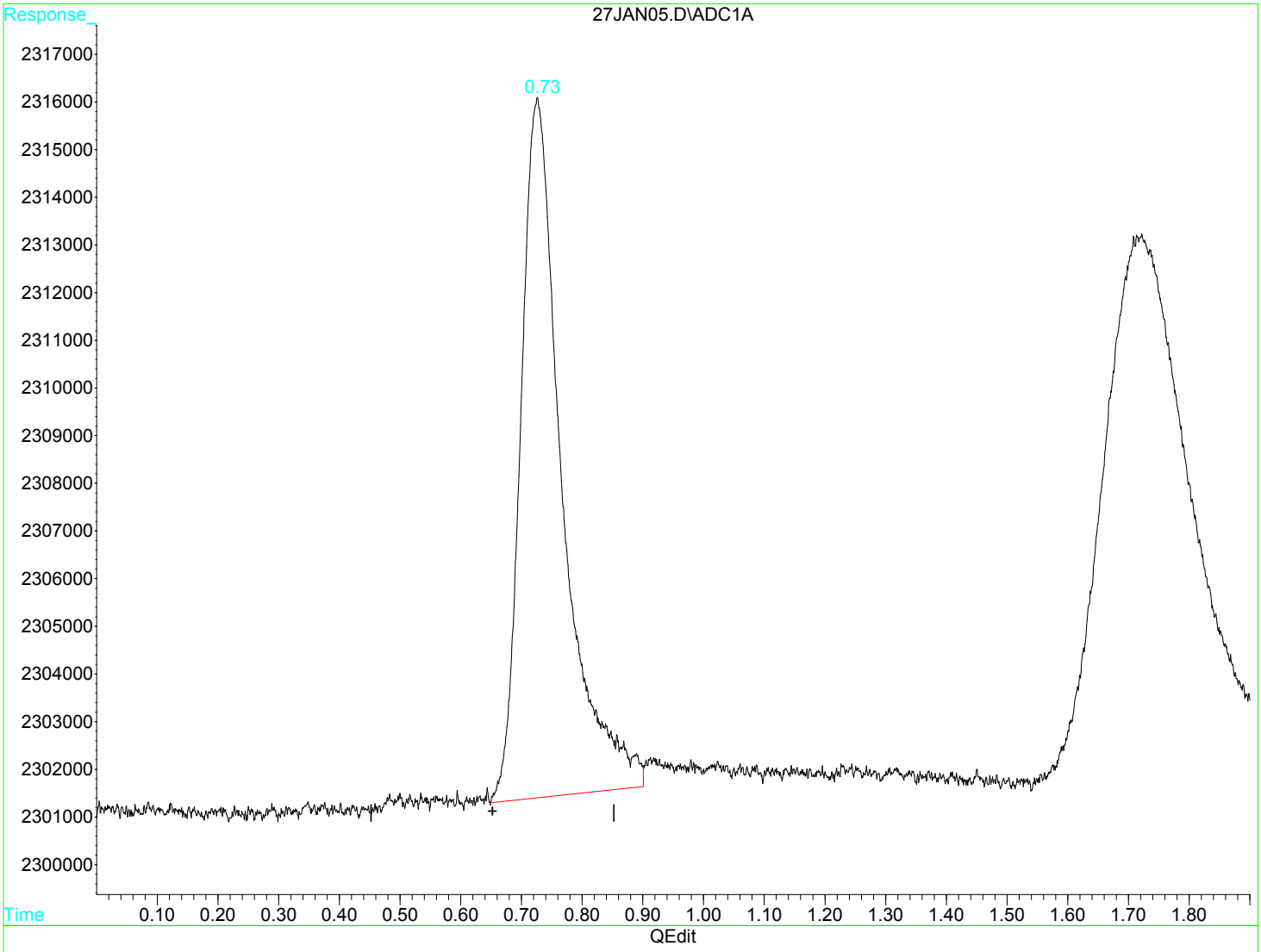
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 1.181ug/L

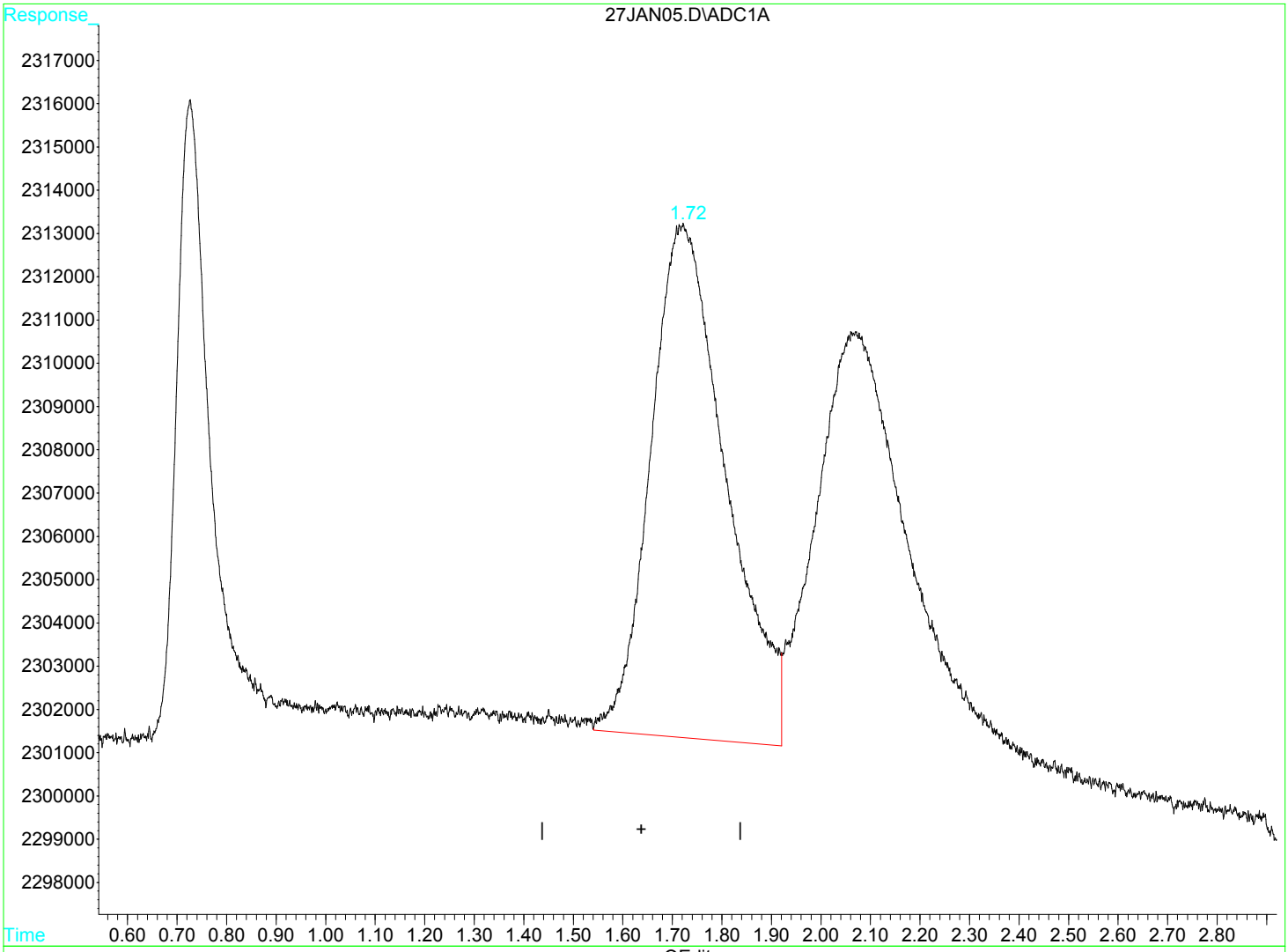
response 691757

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.72min 3.242ug/L

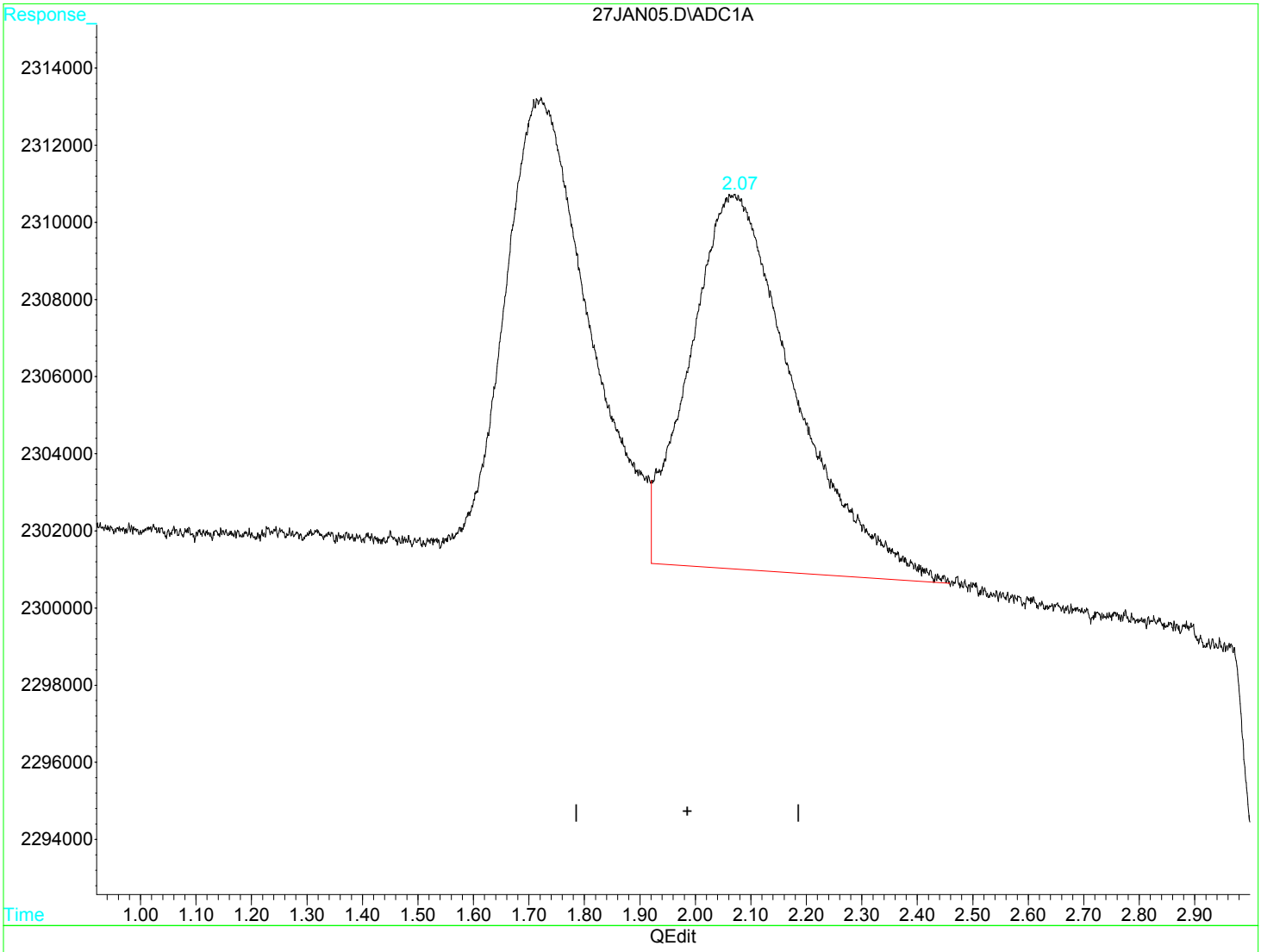
response 1251437

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.07min 2.218ug/L

response 1275089

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	7510447	12.8269	ug/L
2) m	Ethene	1.74f	12518403	32.4341	ug/L
3) m	Ethane	2.09f	14383928	25.0192	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

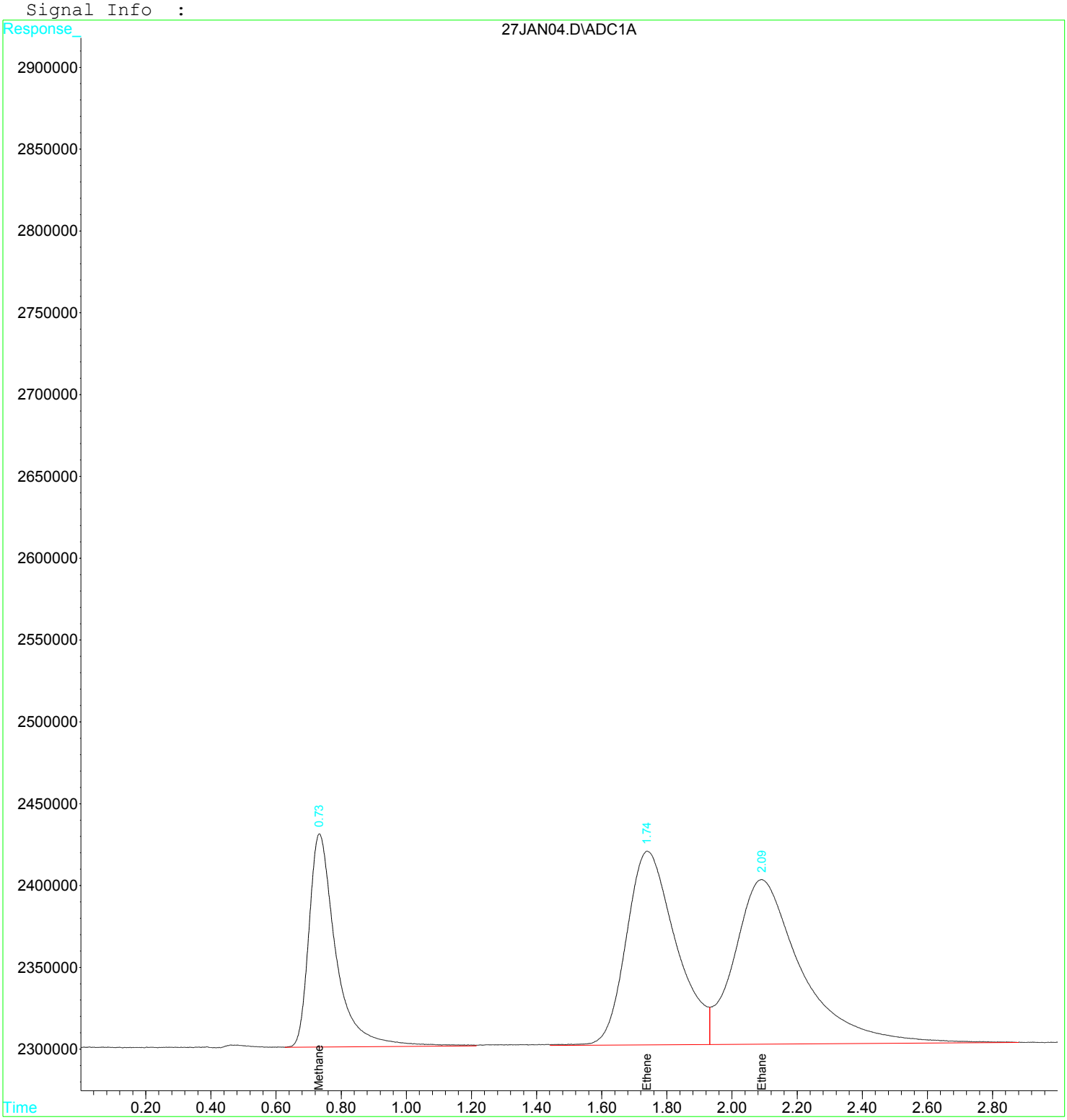
27JAN04.D RSK175.M Wed Feb 15 08:43:25 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

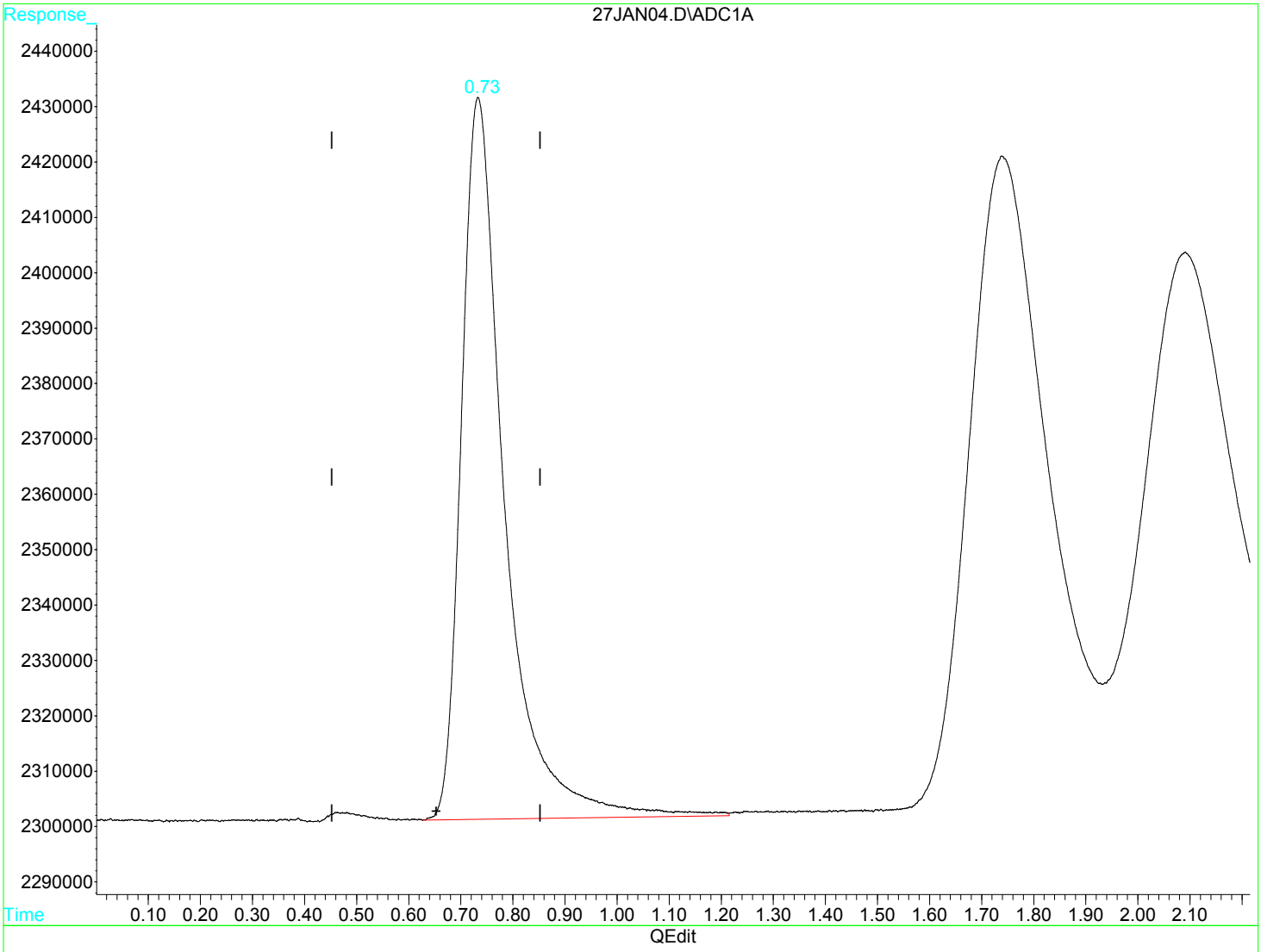
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 12.827ug/L

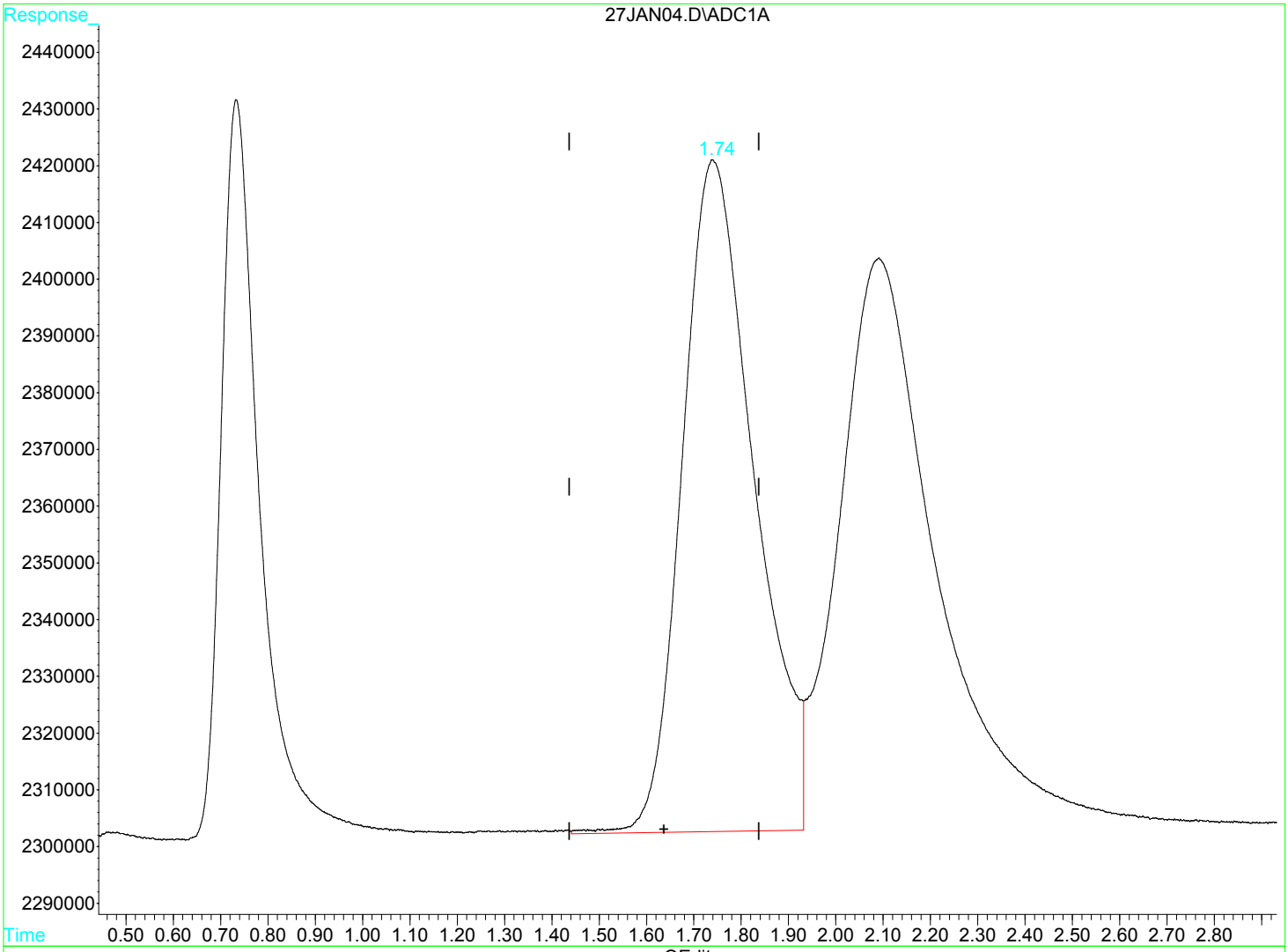
response 7510447

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 32.434ug/L

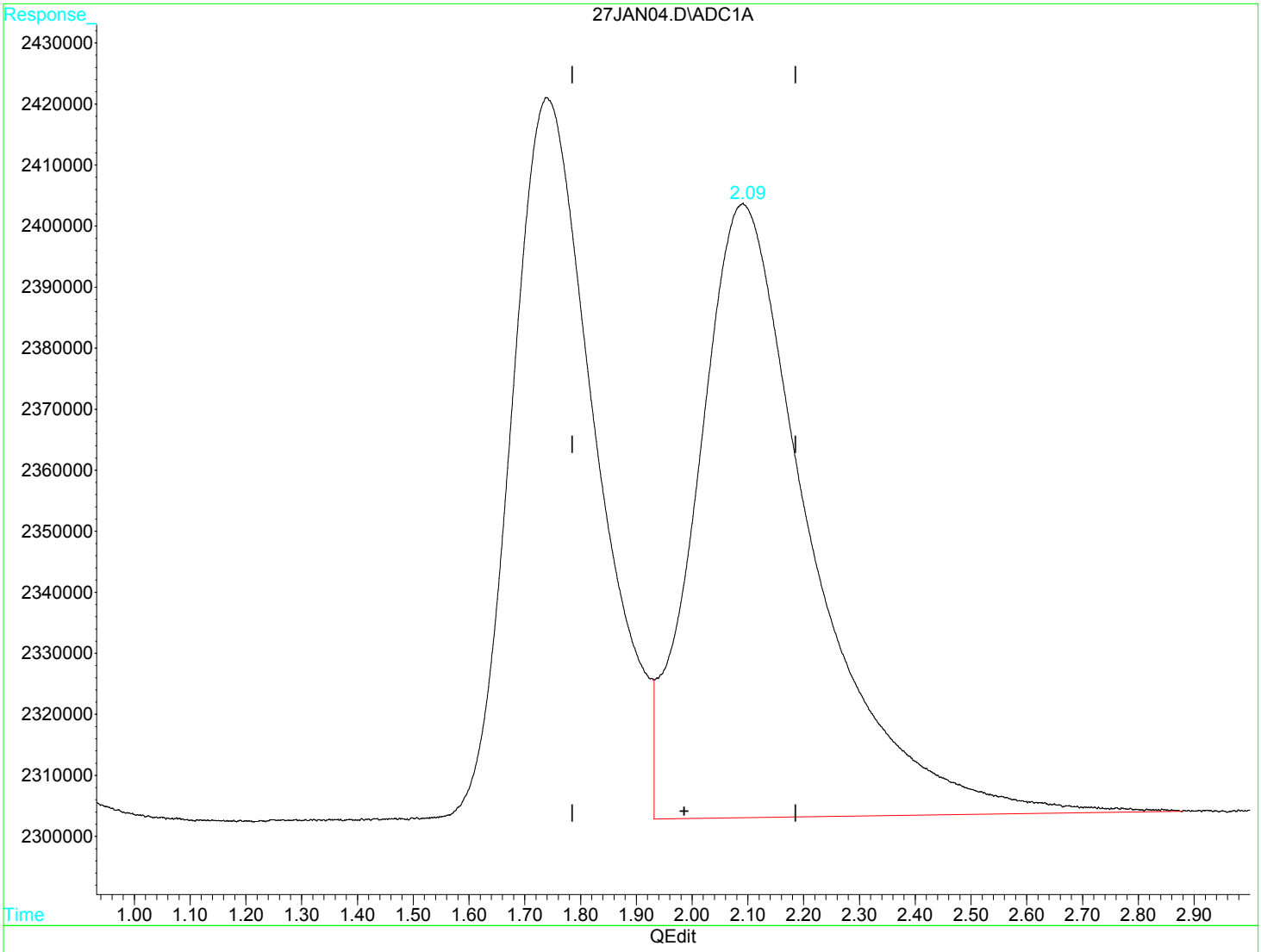
response 12518403

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.09min 25.019ug/L

response 14383928

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	53526843	91.4168	ug/L
2) m	Ethene	1.73	94904572	245.8892	ug/L
3) m	Ethane	2.08	108935077	189.4801	ug/L

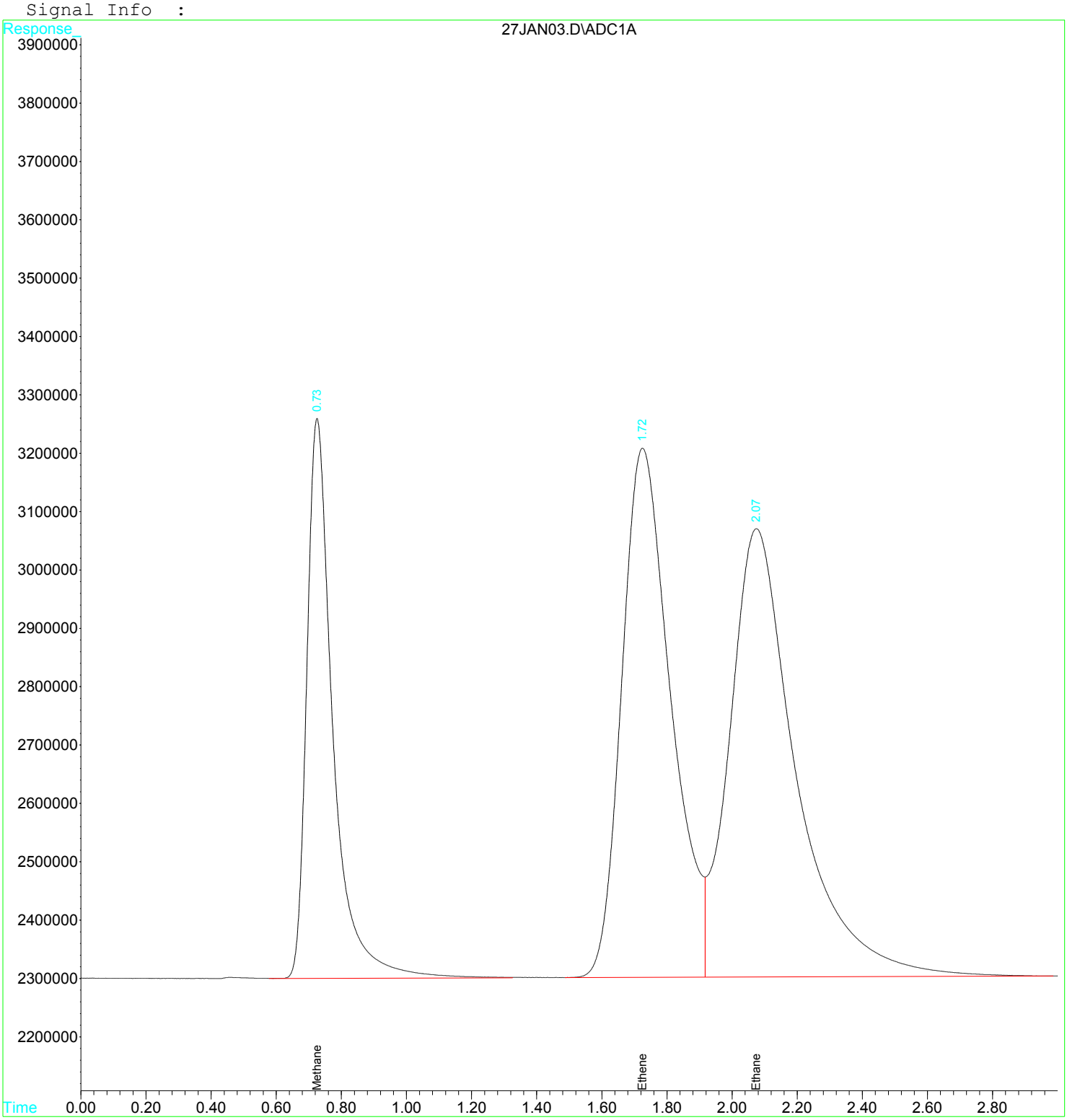
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

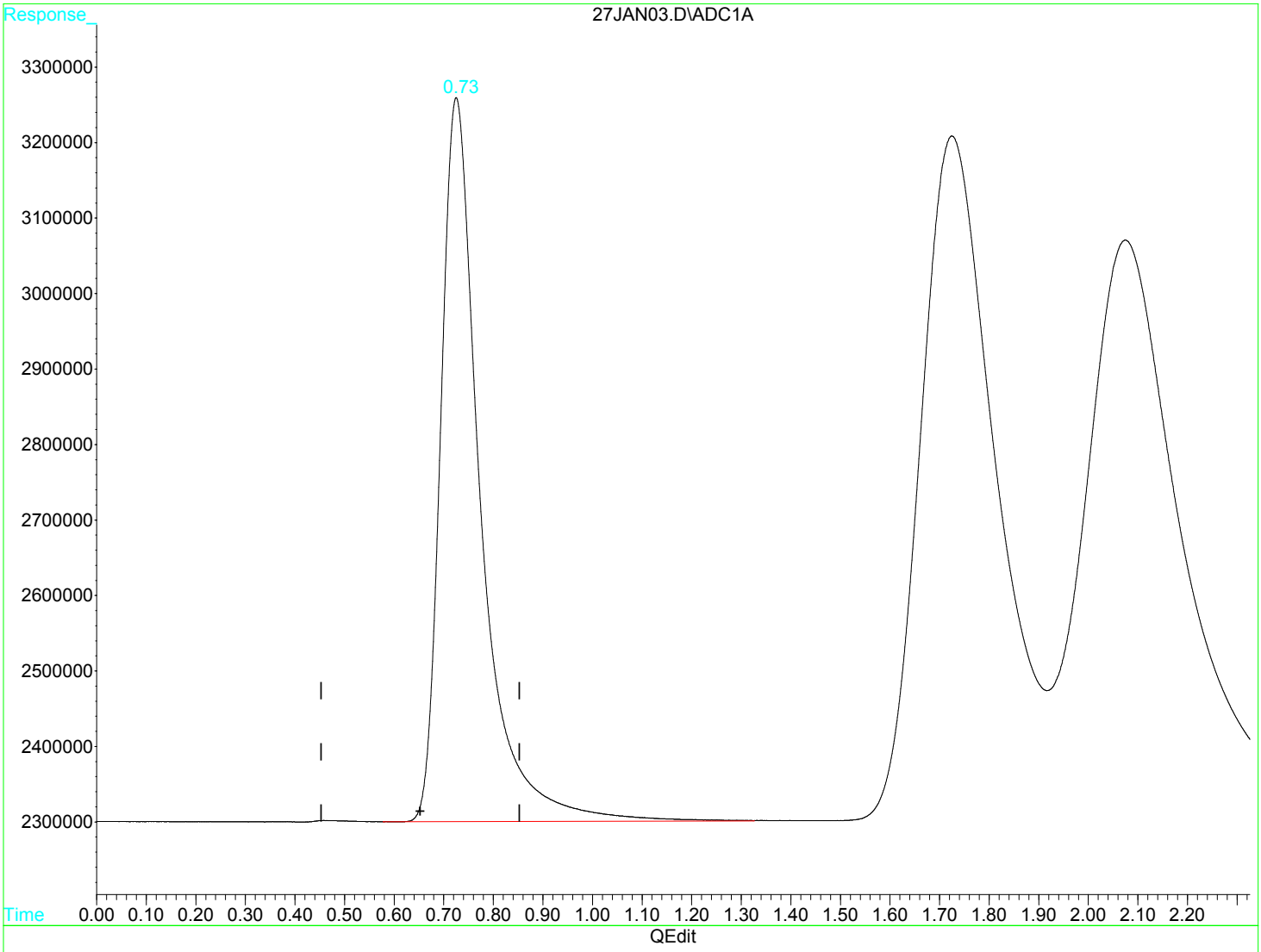
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 91.417ug/L

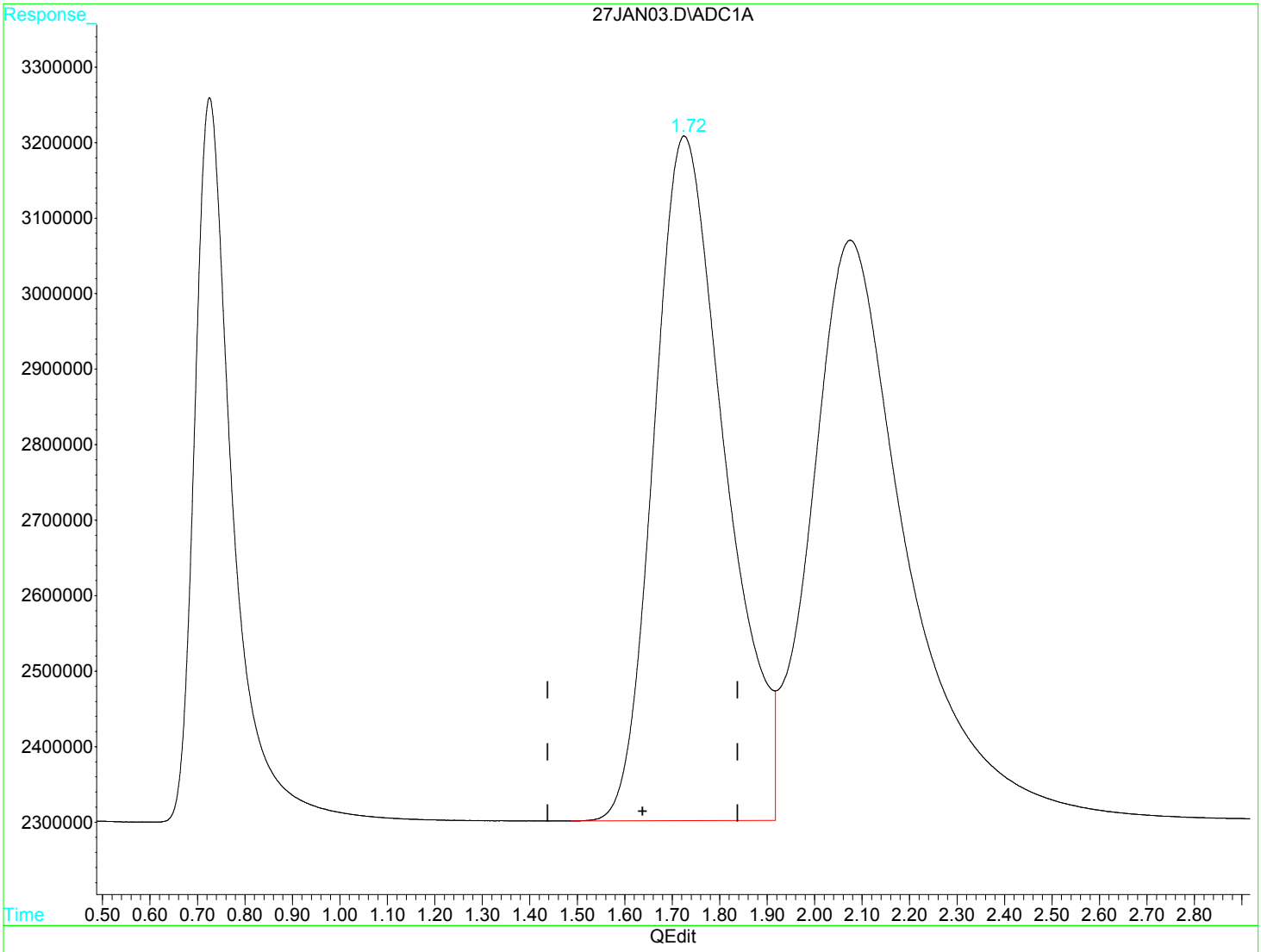
response 53526843

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 245.889ug/L

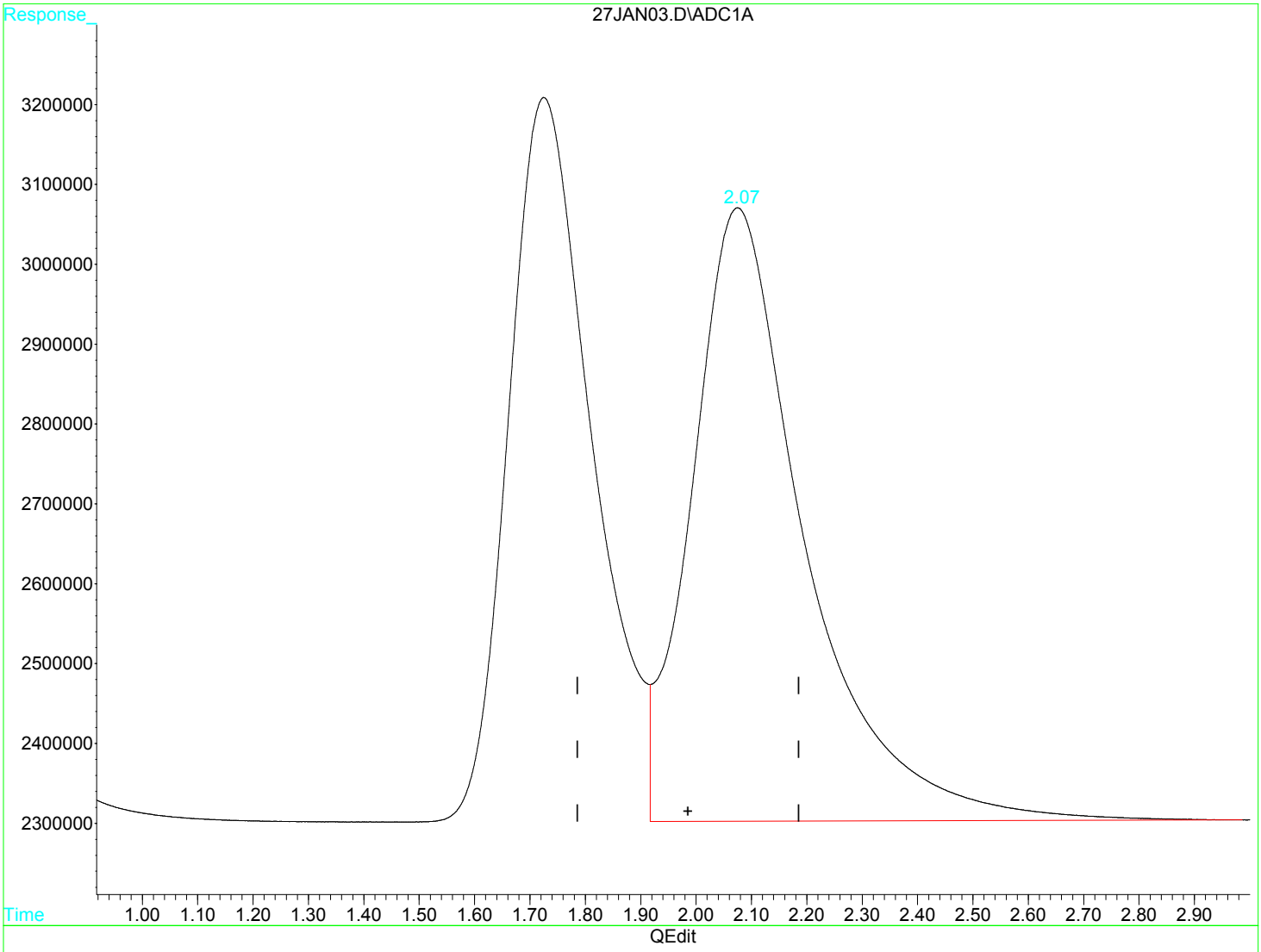
response 94904572

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 189.480ug/L

response 108935077

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	323602300	552.6703	ug/L
2) m	Ethene	1.74f	563612878	1460.2703	ug/L
3) m	Ethane	2.09f	624041169	1085.4482	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

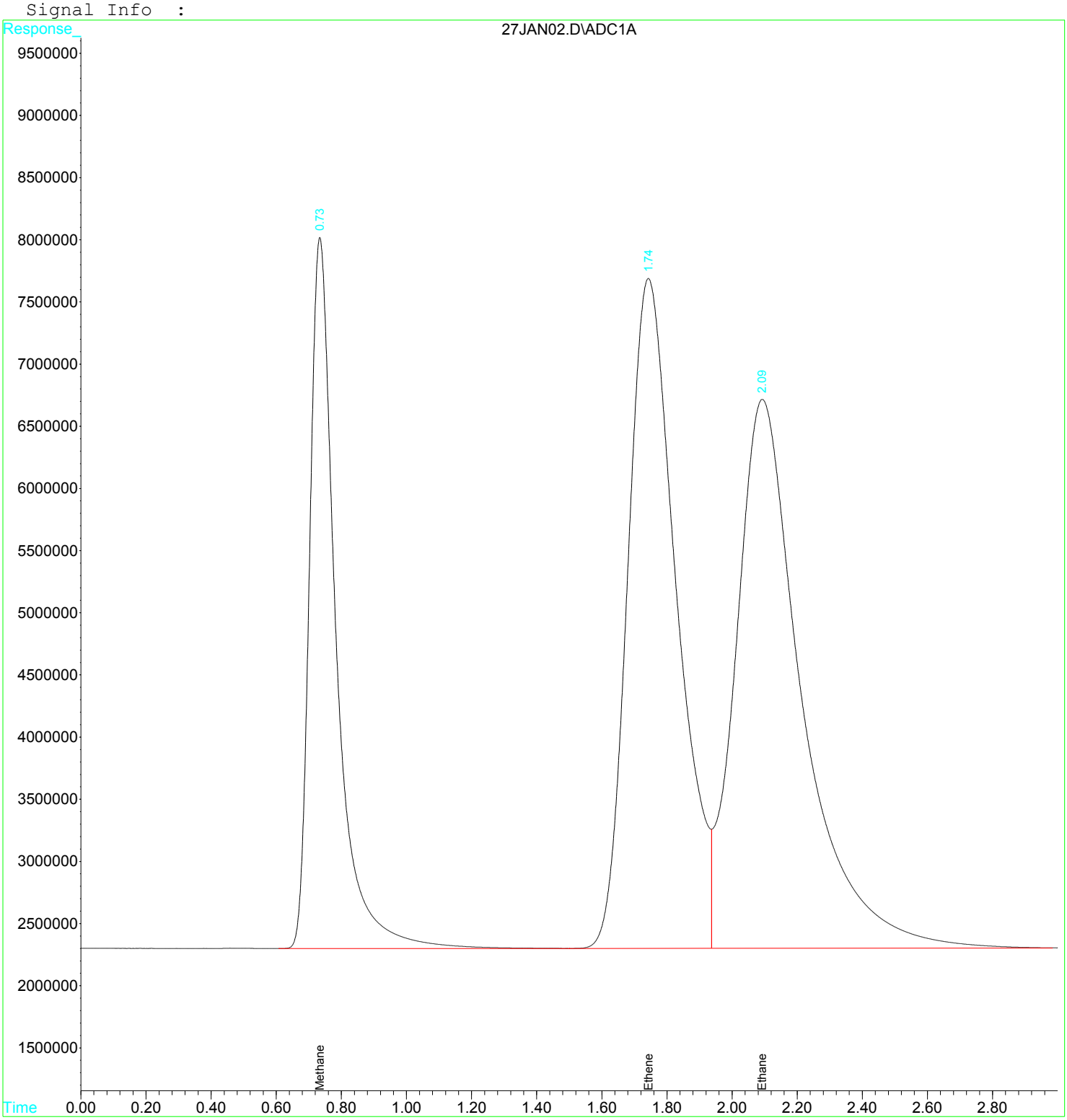
27JAN02.D RSK175.M Wed Feb 15 08:42:24 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

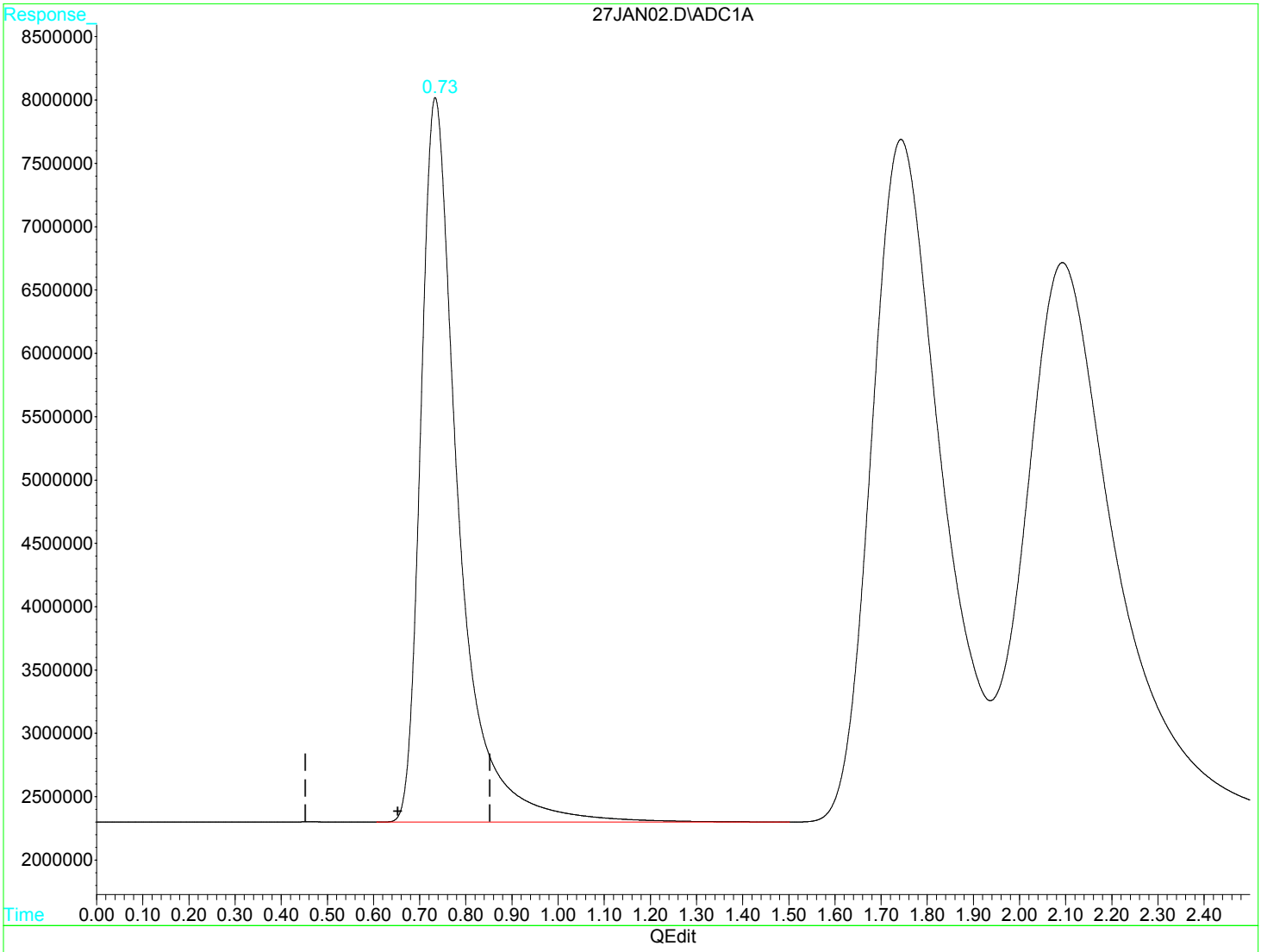
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 552.670ug/L

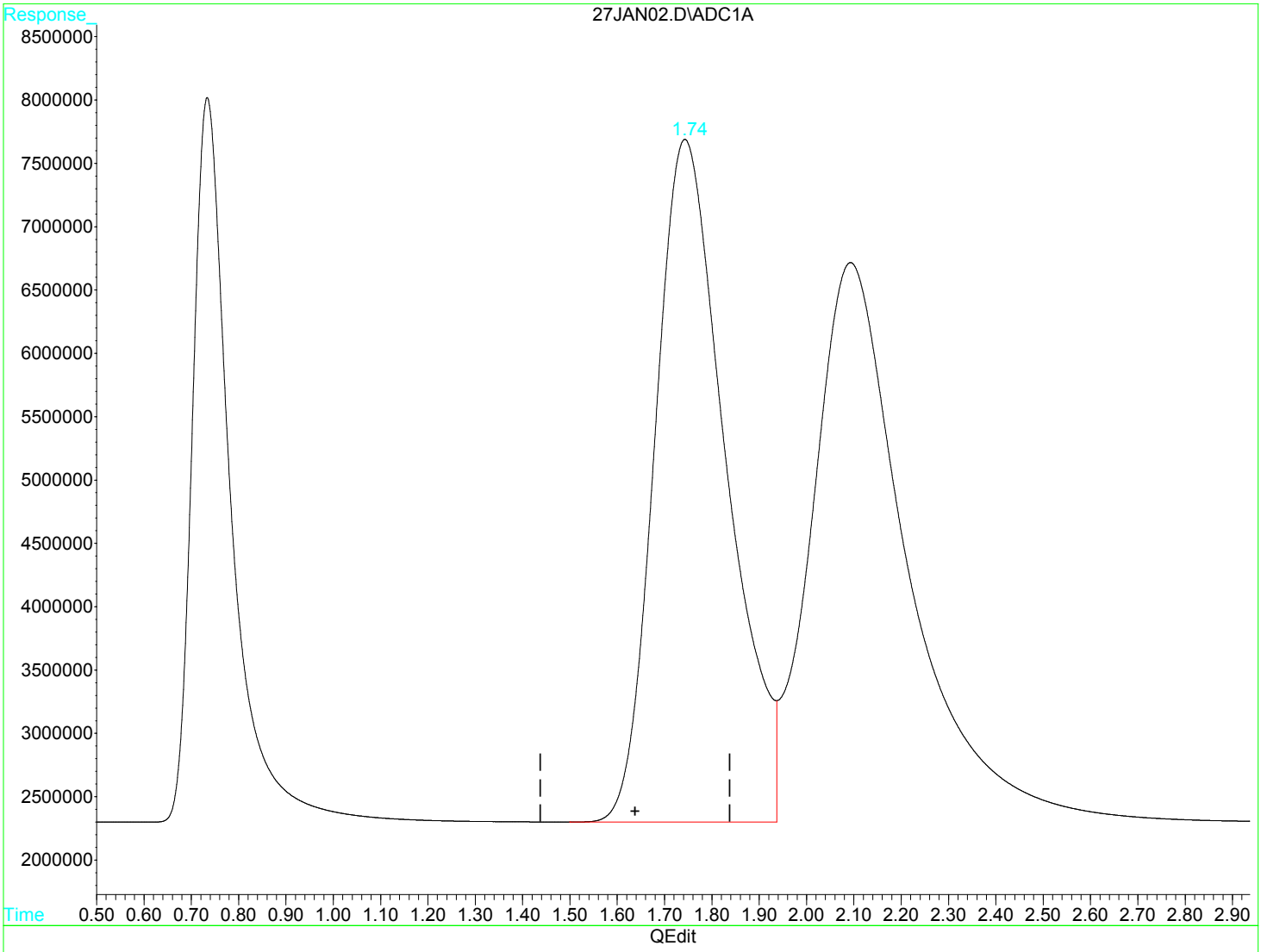
response 323602300

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 1460.270ug/L

response 563612878

(+) = Expected Retention Time

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.74	7368524	12.1735 ug/L
2) m Ethene	1.75	12806794	31.8199 ug/L
3) m Ethane	2.10	14497414	24.9563 ug/L

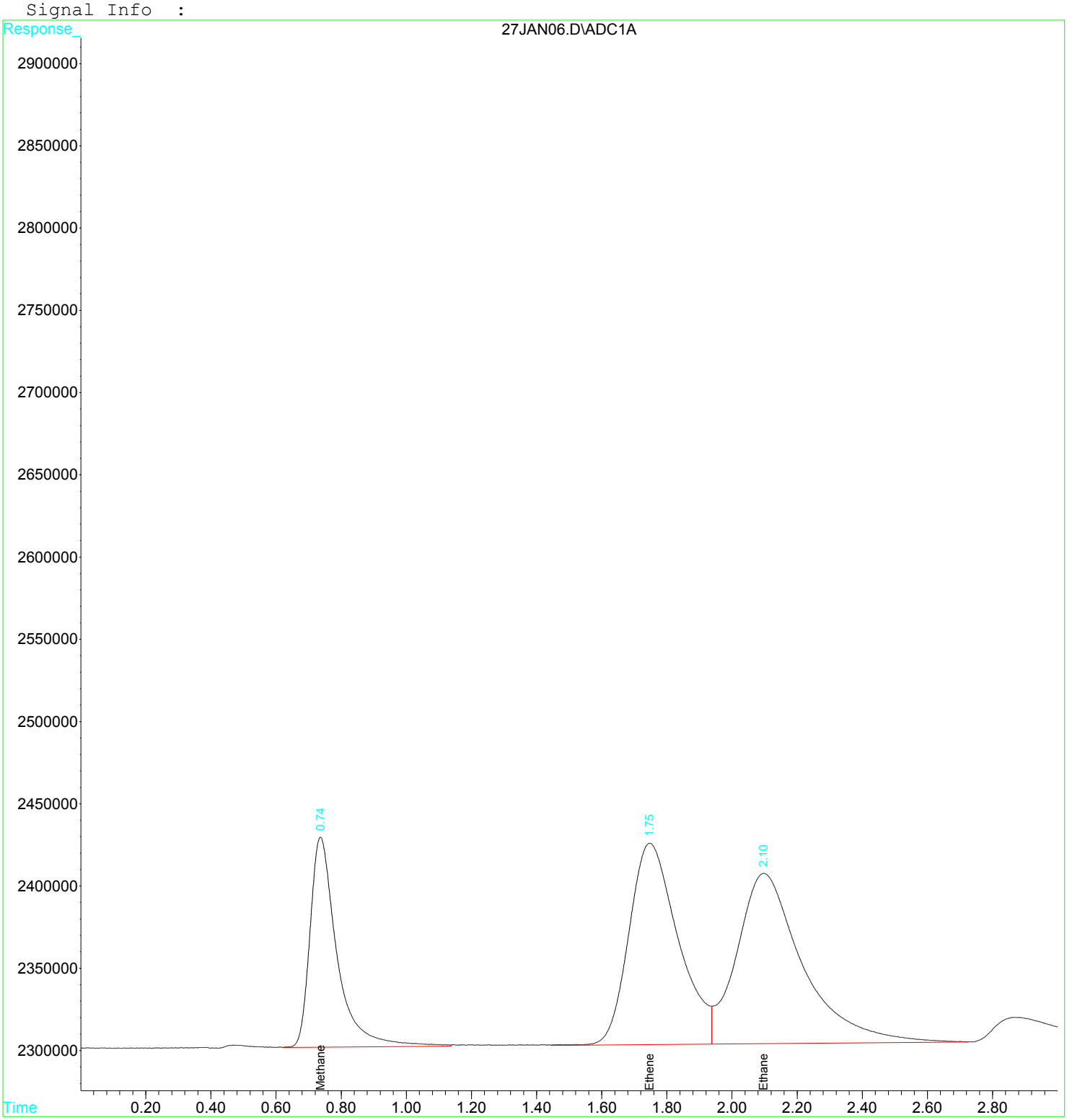
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

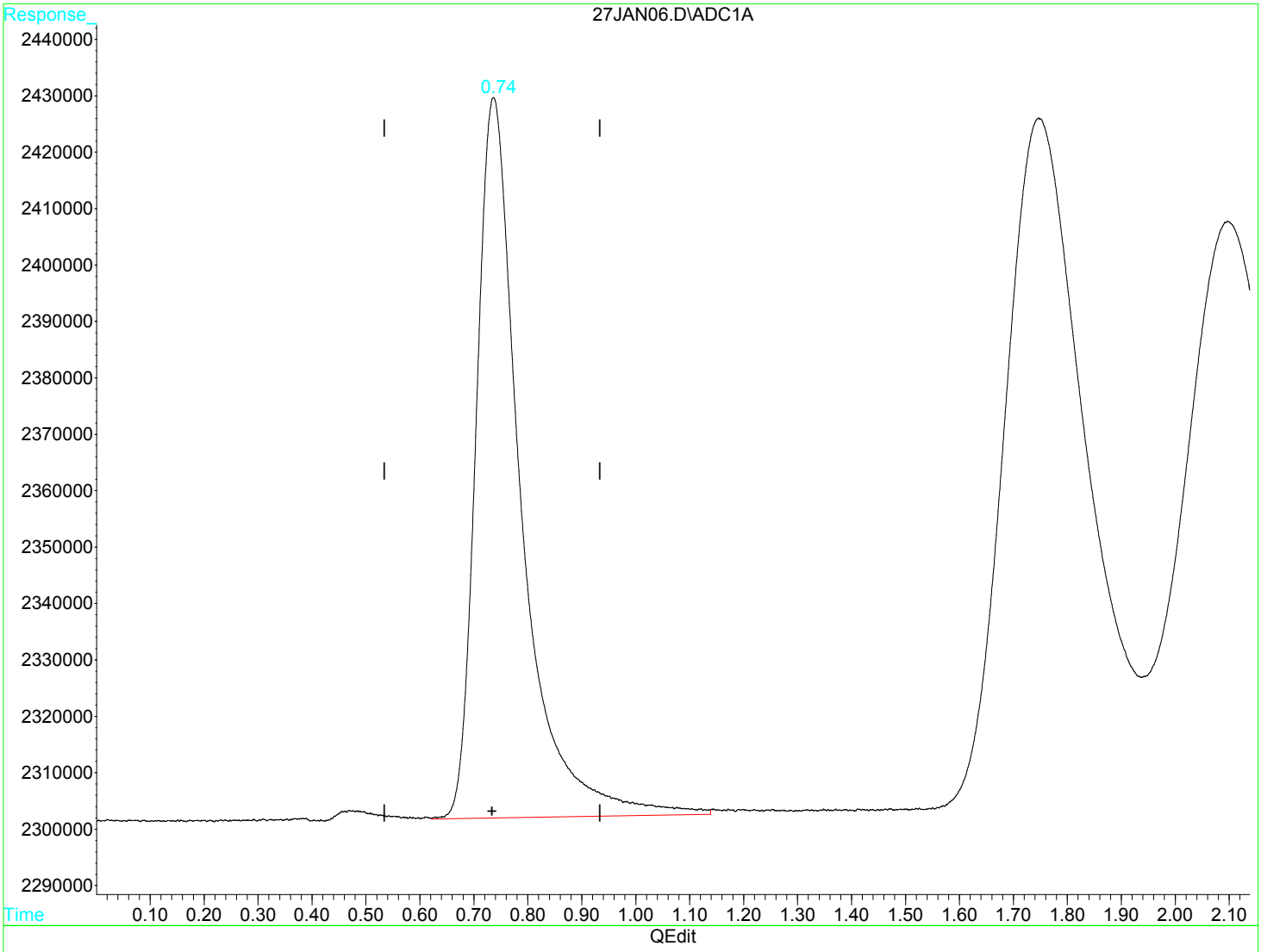
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 12.173ug/L

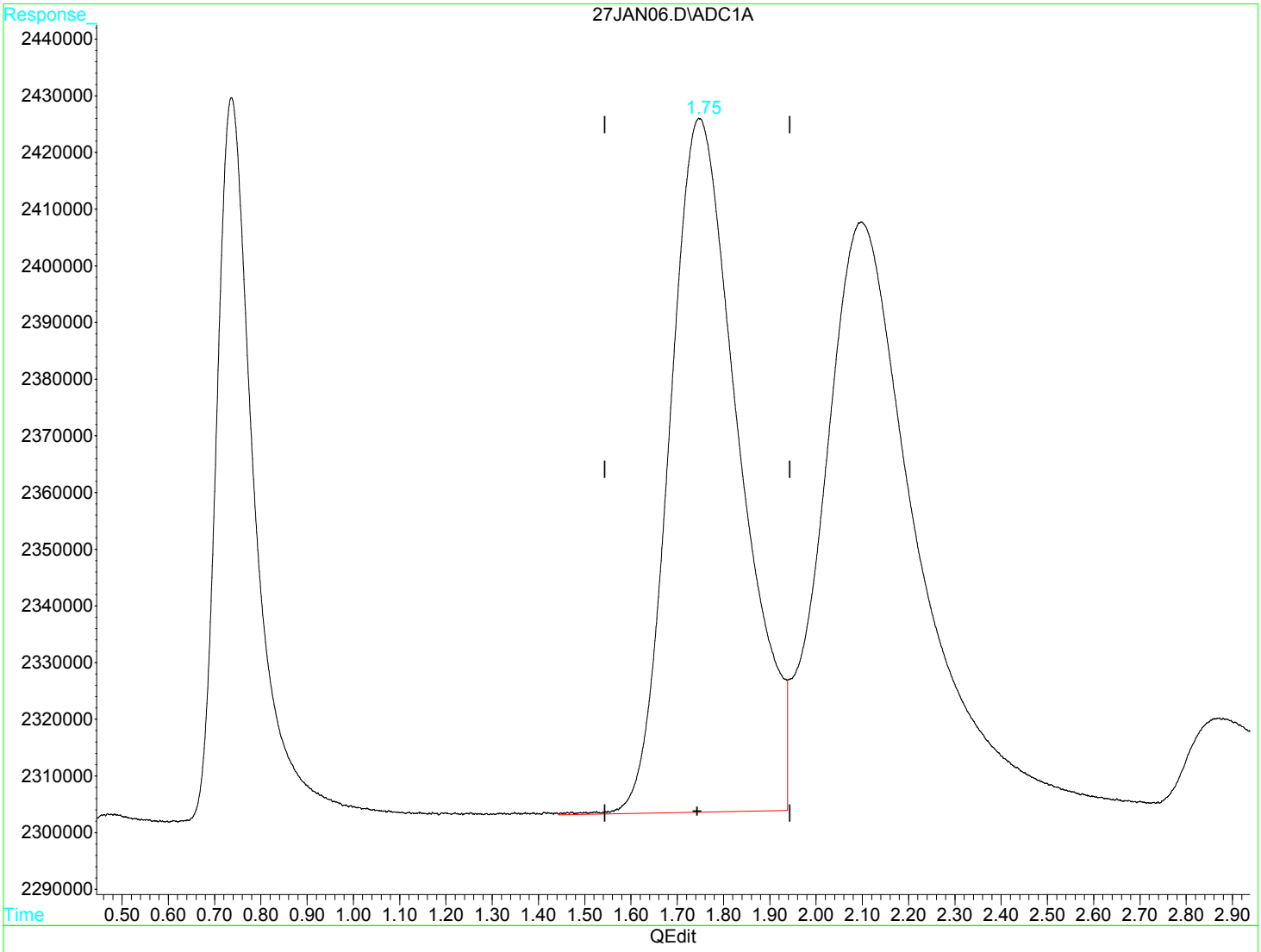
response 7368524

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.75min 31.820ug/L

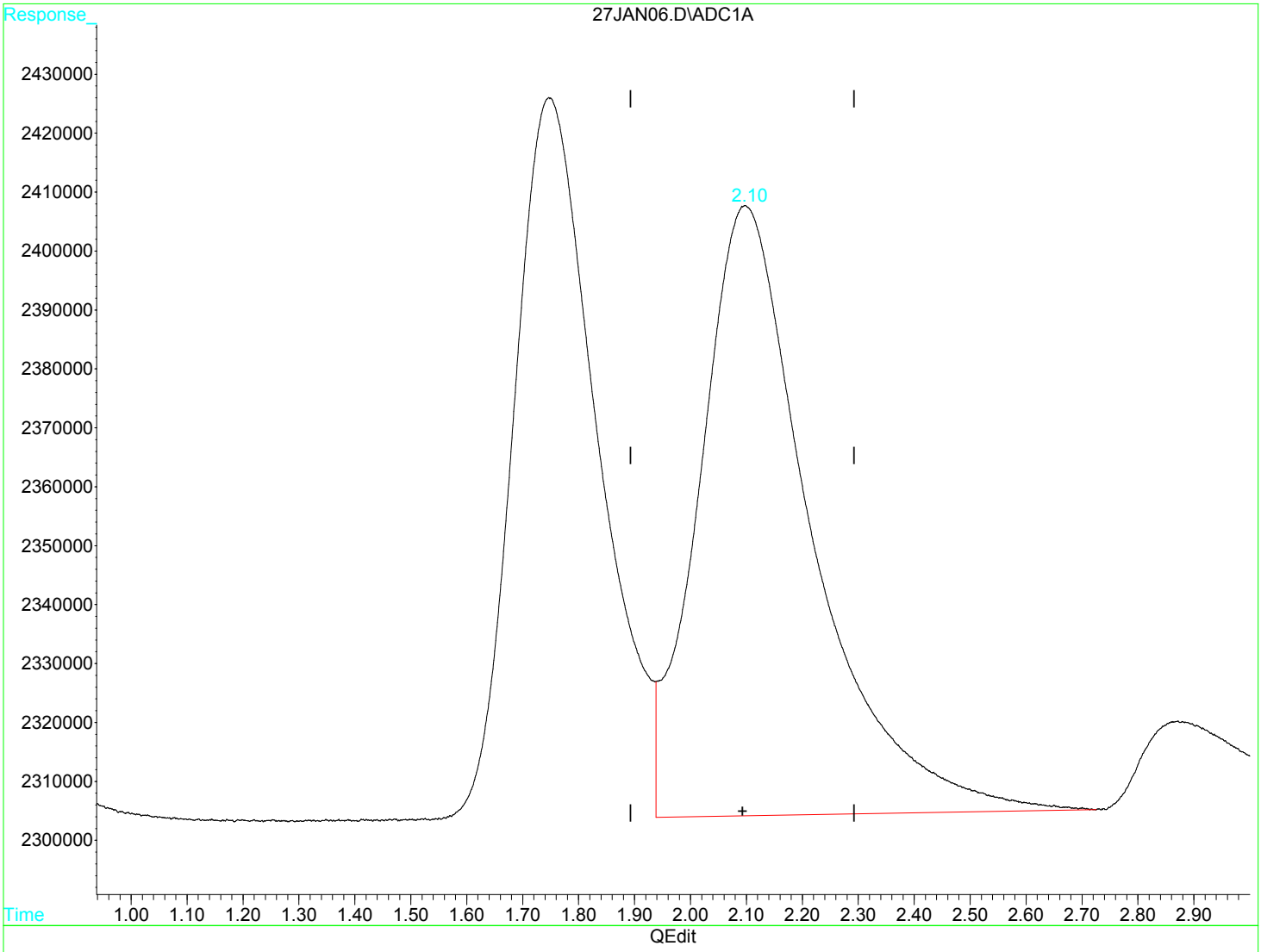
response 12806794

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.10min 24.956ug/L

response 14497414

(+) = Expected Retention Time

27JAN06.D RSK175.M Tue Feb 07 10:21:14 2017 MSD1

Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN07.D Vial: 7
Acq On : 27 Jan 2017 8:45 am Operator: JH2
Sample : 1701454-ICB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:21 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

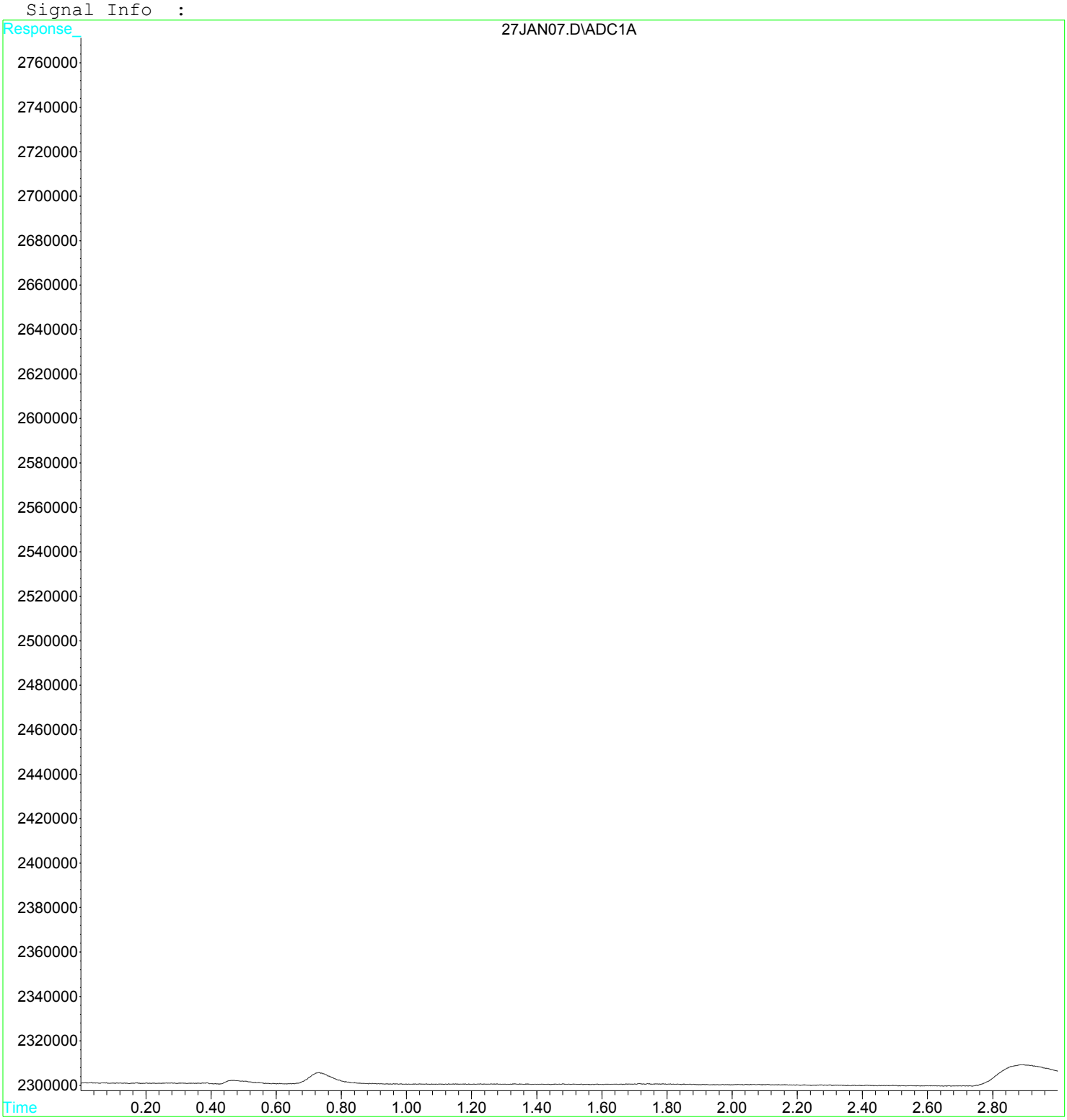
Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L
3) m Ethane	0.00	0	N.D.	ug/L

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN07.D Vial: 7
Acq On : 27 Jan 2017 8:45 am Operator: JH2
Sample : 1701454-ICB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:21 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:58 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.72	6282312	10.3790	ug/L	m
2) m	Ethene	1.70	11389813	28.2993	ug/L	m
3) m	Ethane	2.04	13957846	24.0275	ug/L	m

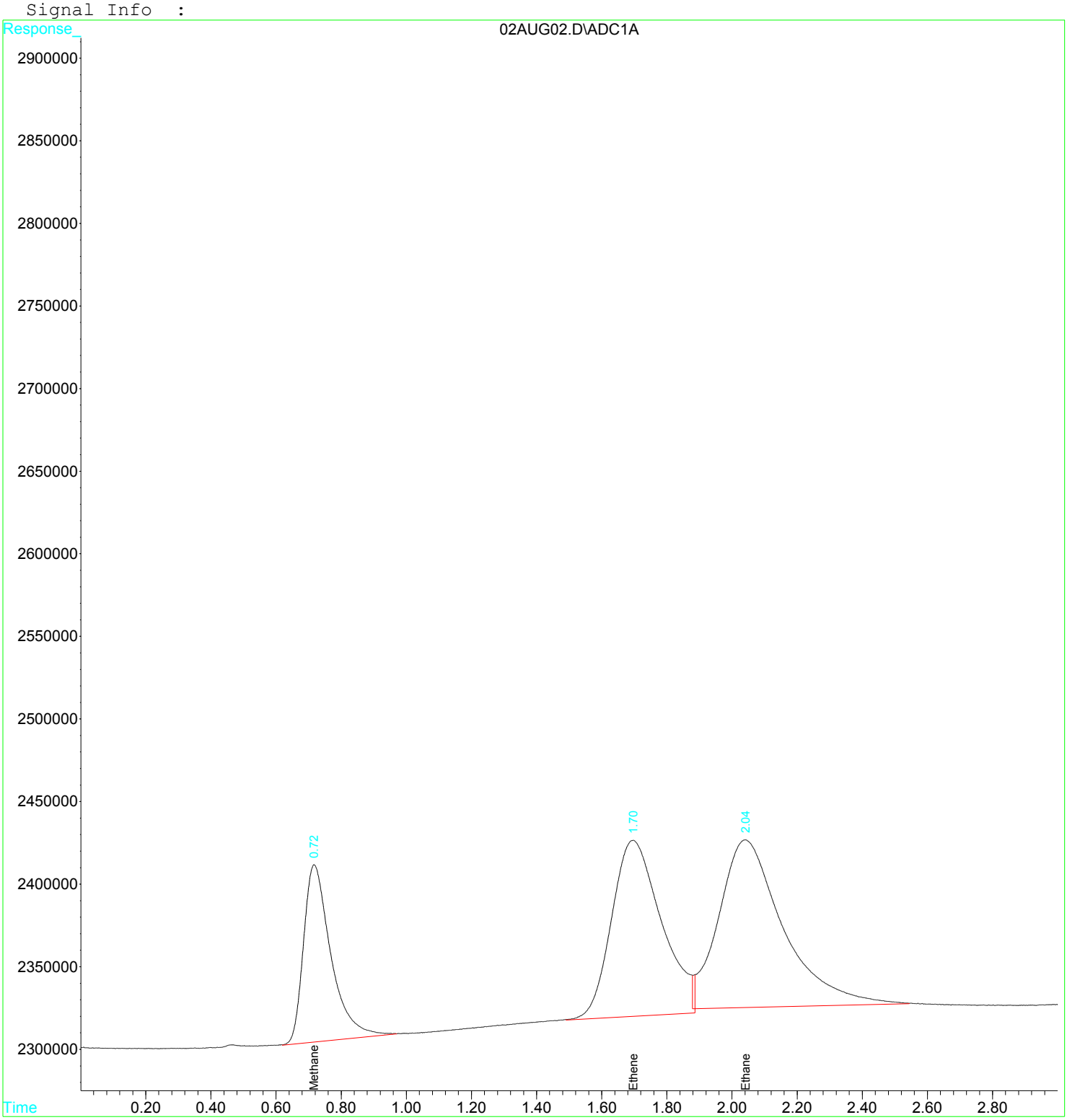
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:58 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

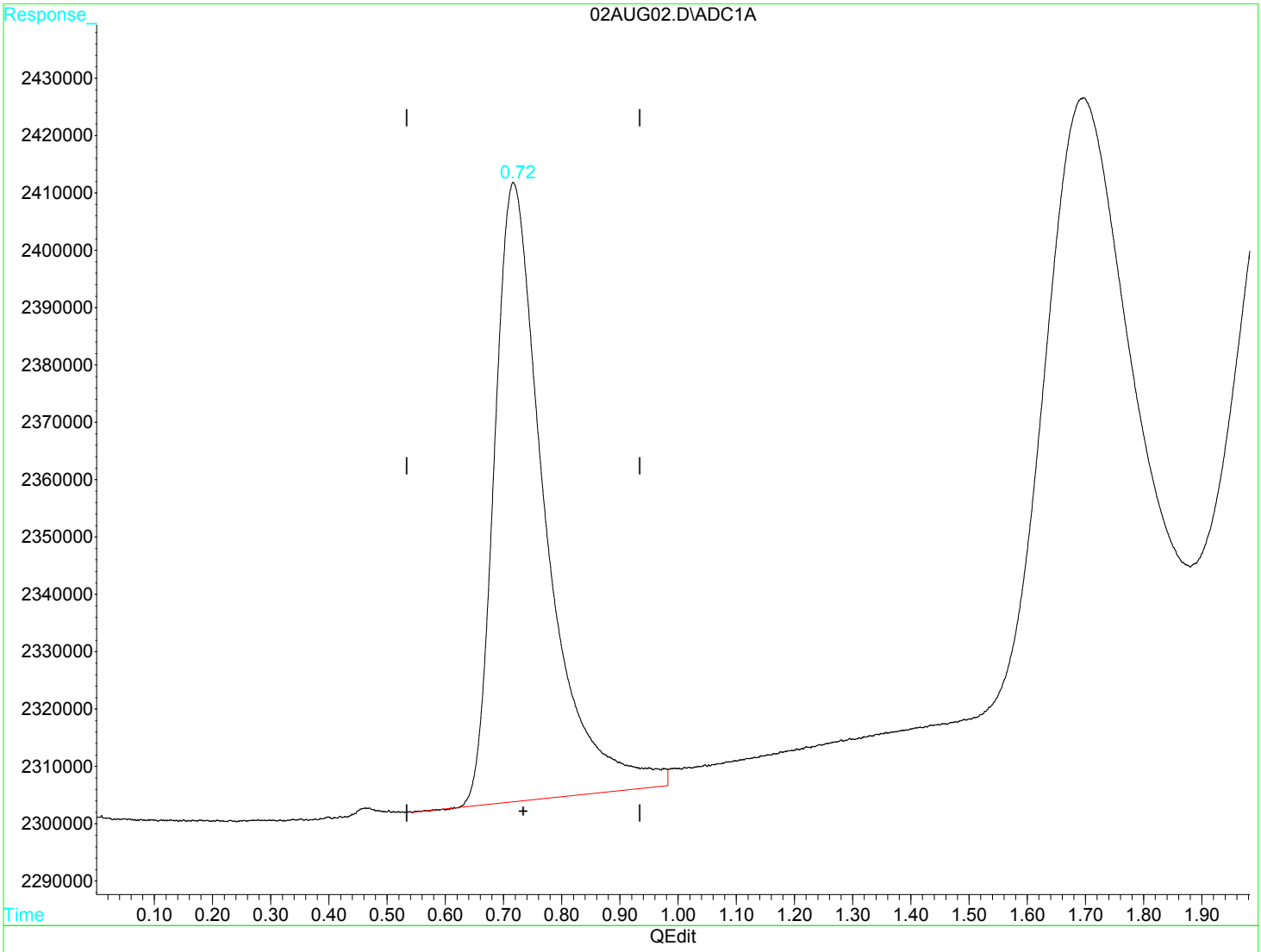
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 12:39 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 10.841ug/L

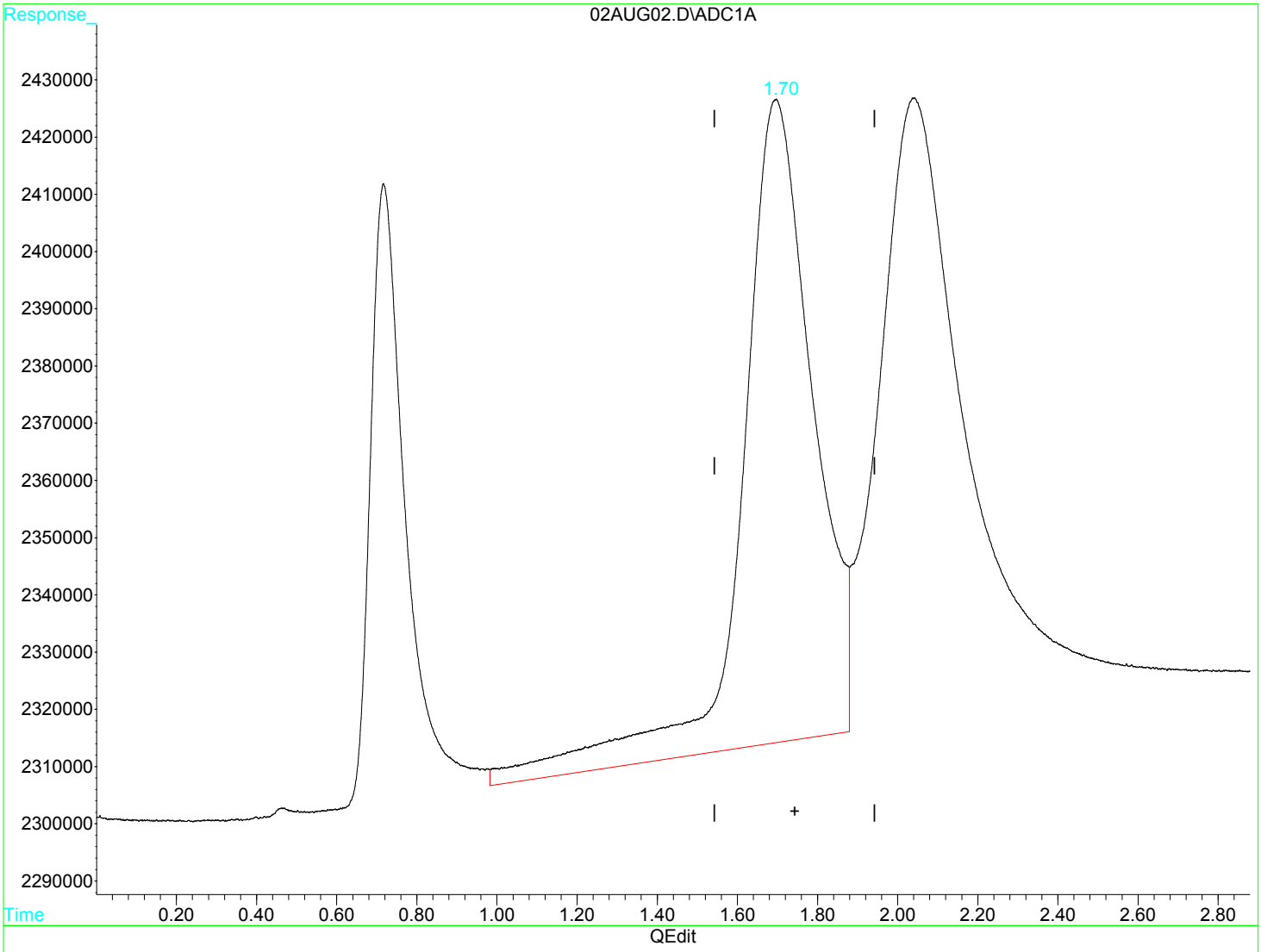
response 6562162

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 12:39 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.70min 34.662ug/L

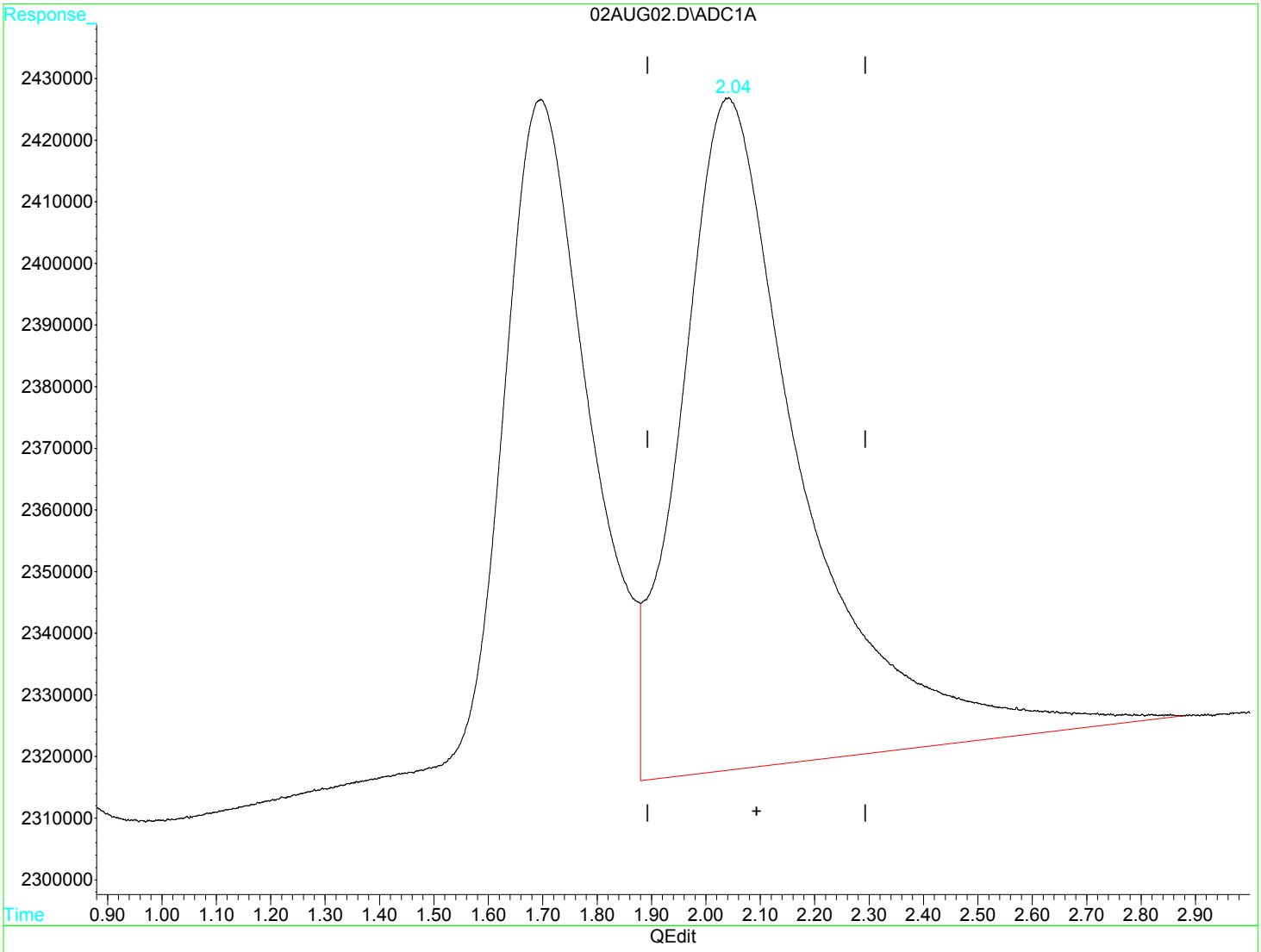
response 13950696

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 12:39 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.04min 29.257ug/L

response 16995819

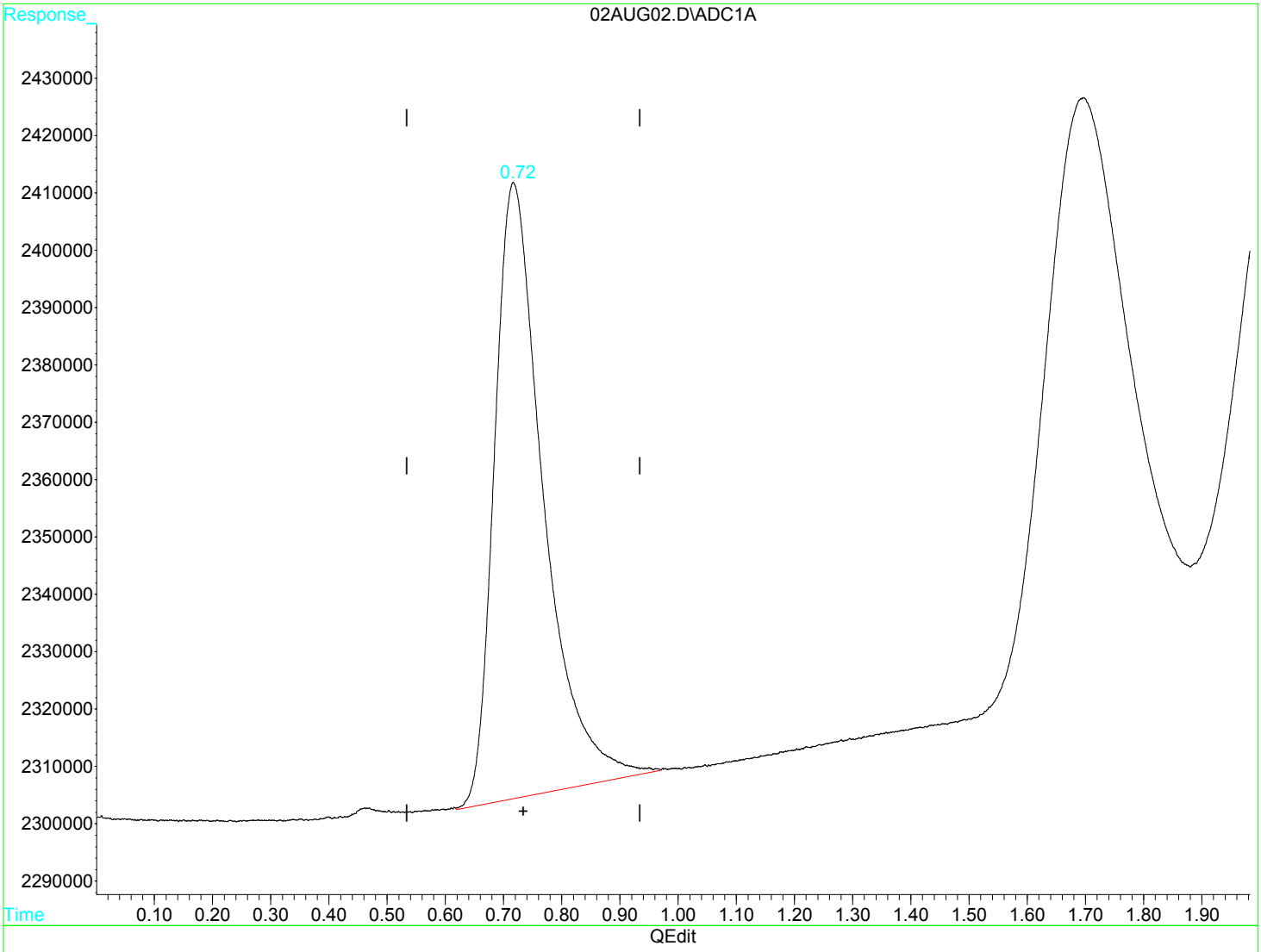
(+) = Expected Retention Time

02AUG02.D RSK175.M Wed Aug 02 13:58:21 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 12:39 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 10.379ug/L m

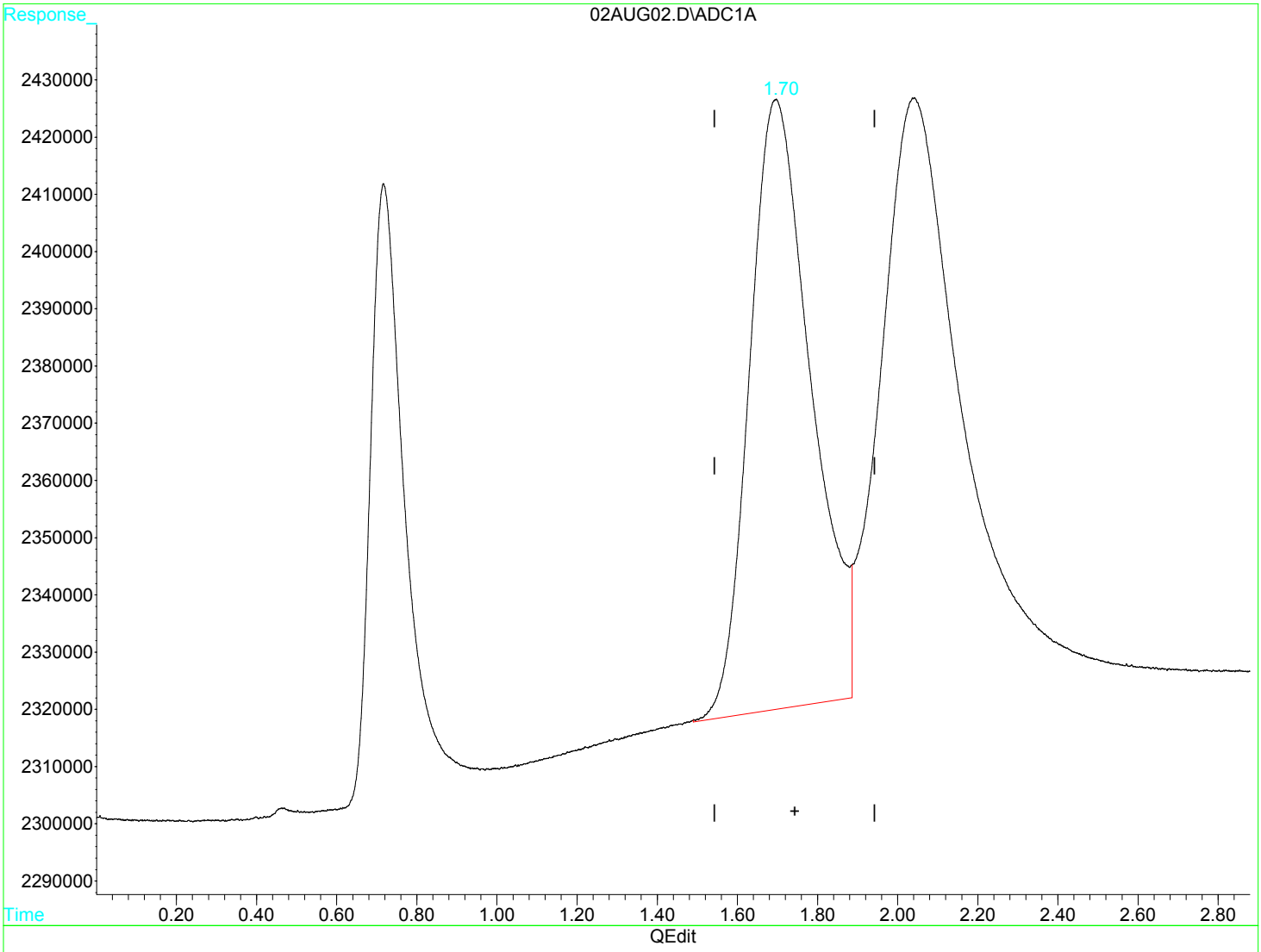
response 6282312

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 12:39 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.70min 28.299ug/L m

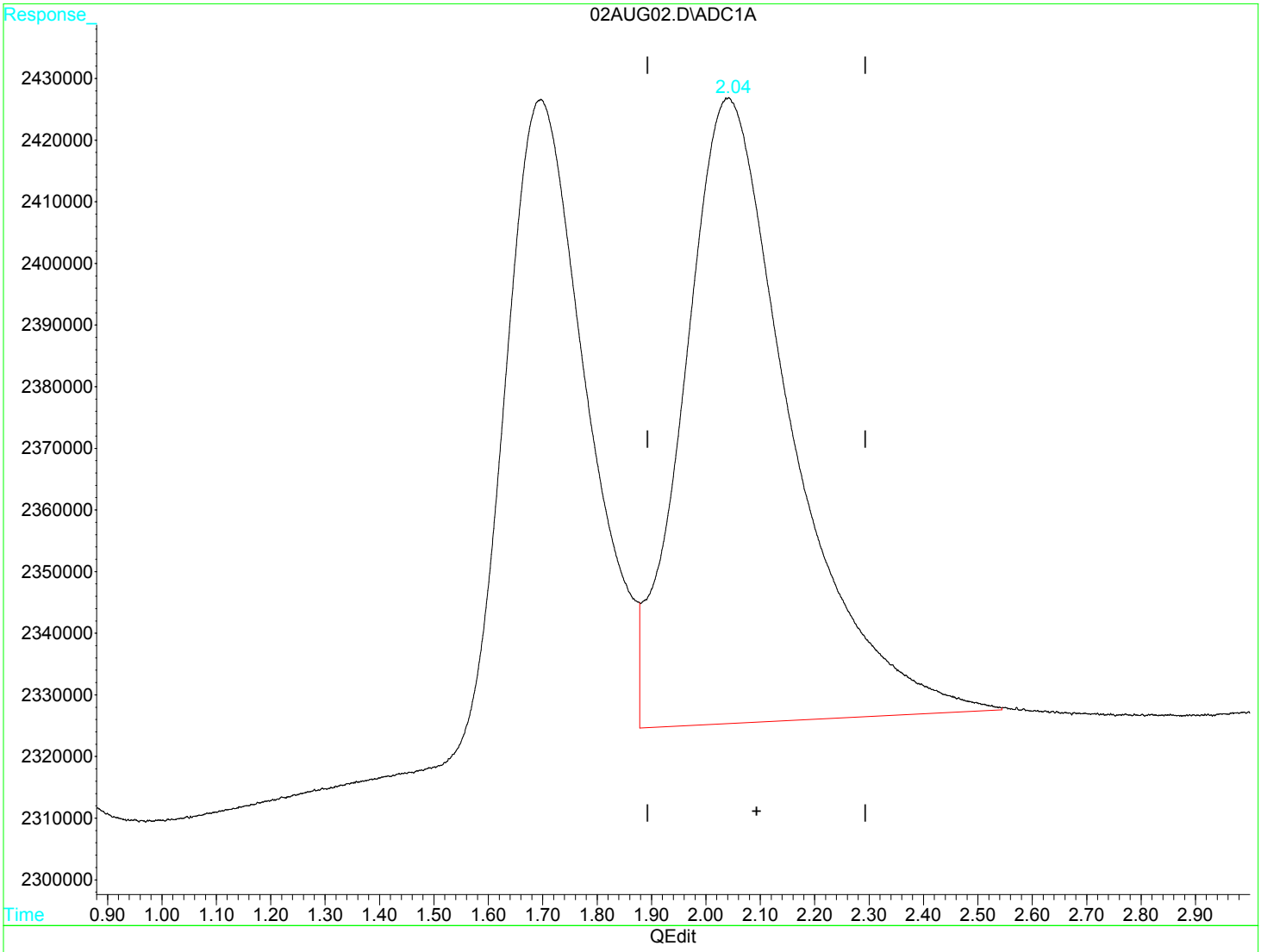
response 11389813

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG02.D Vial: 2
Acq On : 2 Aug 2017 12:36 pm Operator: JH2
Sample : 1713649-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 12:39 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.04min 24.027ug/L m

response 13957846

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.74	6131557	10.1299	ug/L	m
2) m	Ethene	1.74	11601282	28.8247	ug/L	m
3) m	Ethane	2.09	14151595	24.3610	ug/L	m

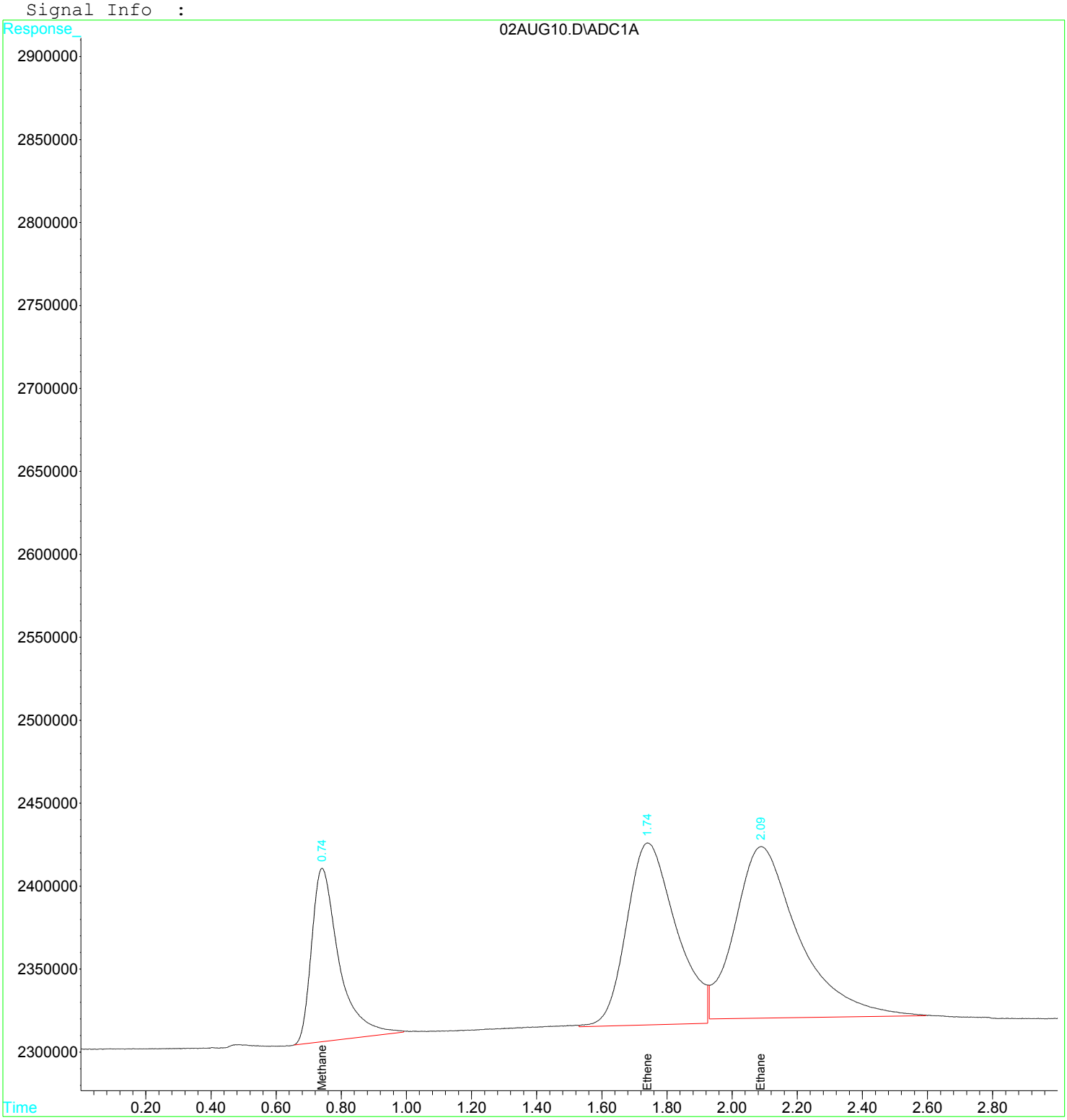
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

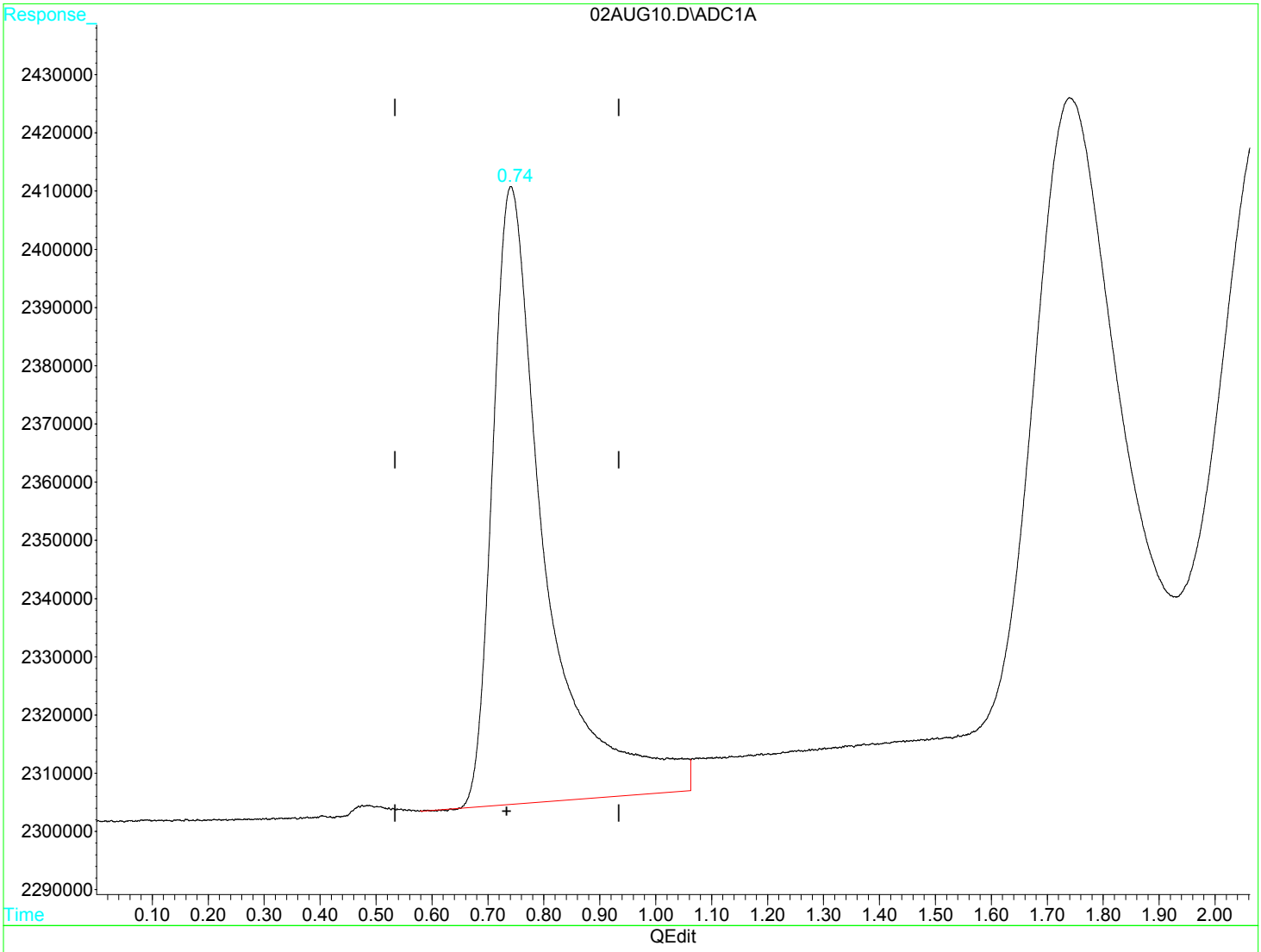
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 11.486ug/L

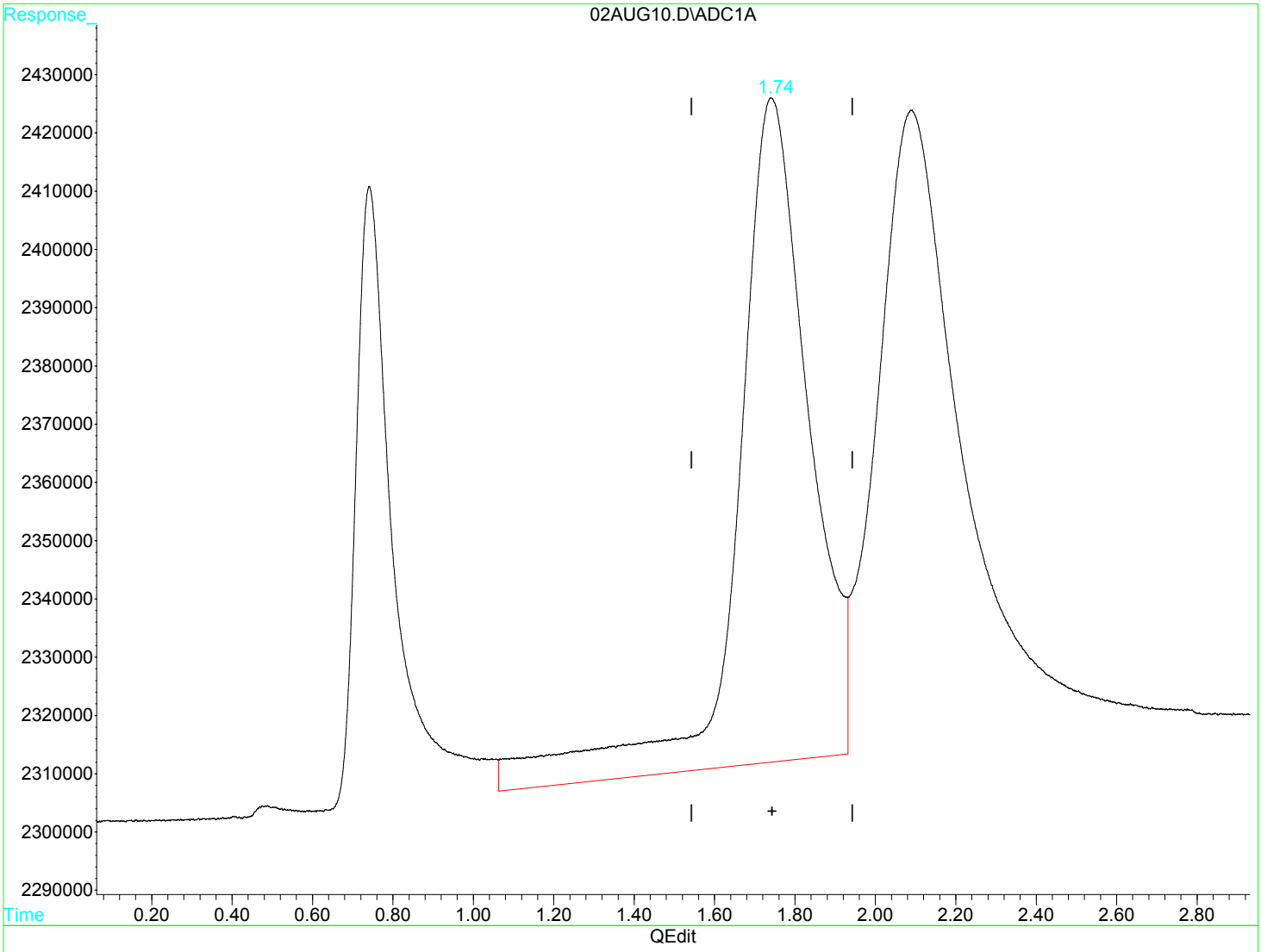
response 6952600

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 35.469ug/L

response 14275350

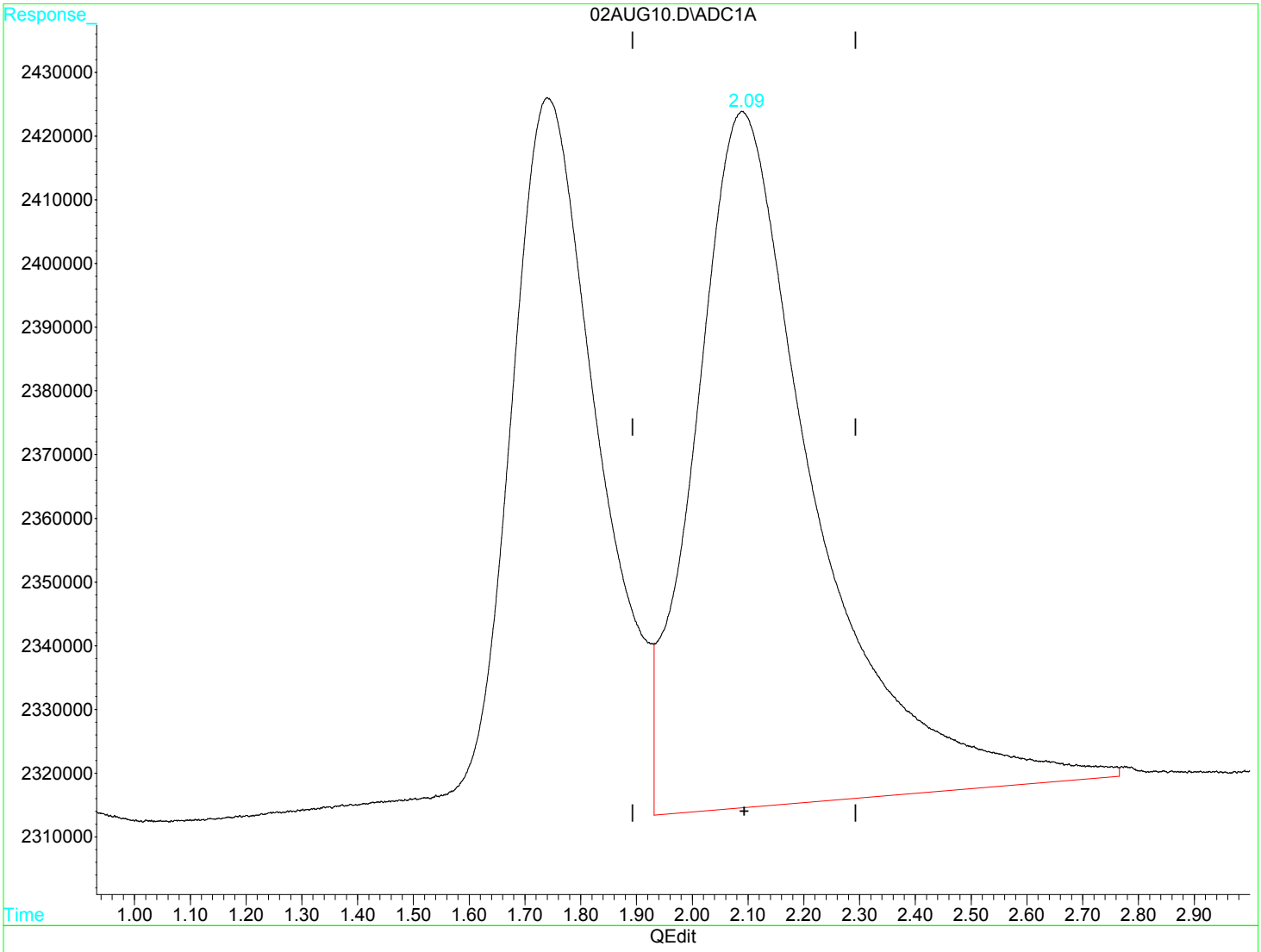
(+) = Expected Retention Time

02AUG10.D RSK175.M Wed Aug 02 14:05:18 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.09min 28.265ug/L

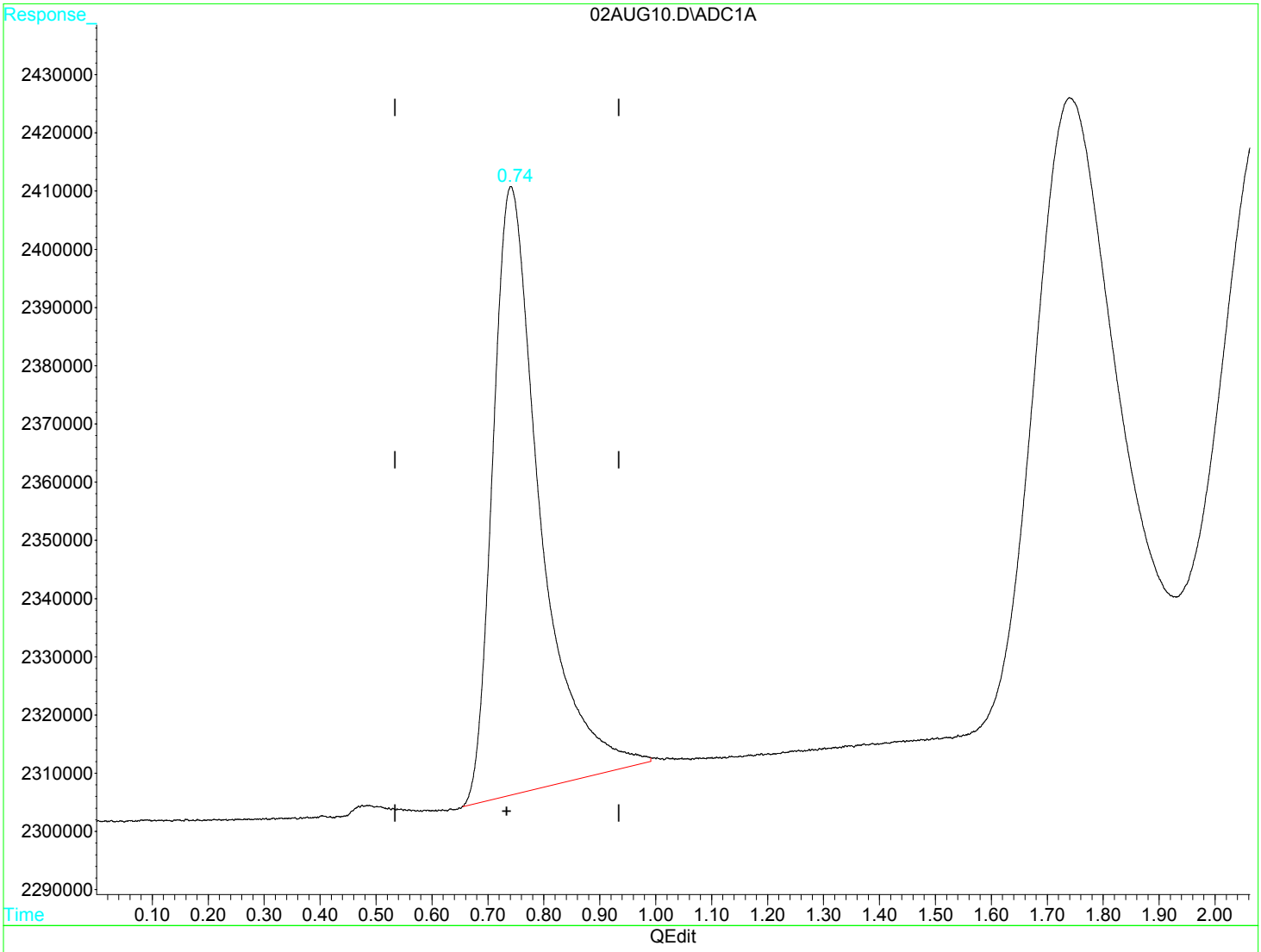
response 16419193

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 10.130ug/L m

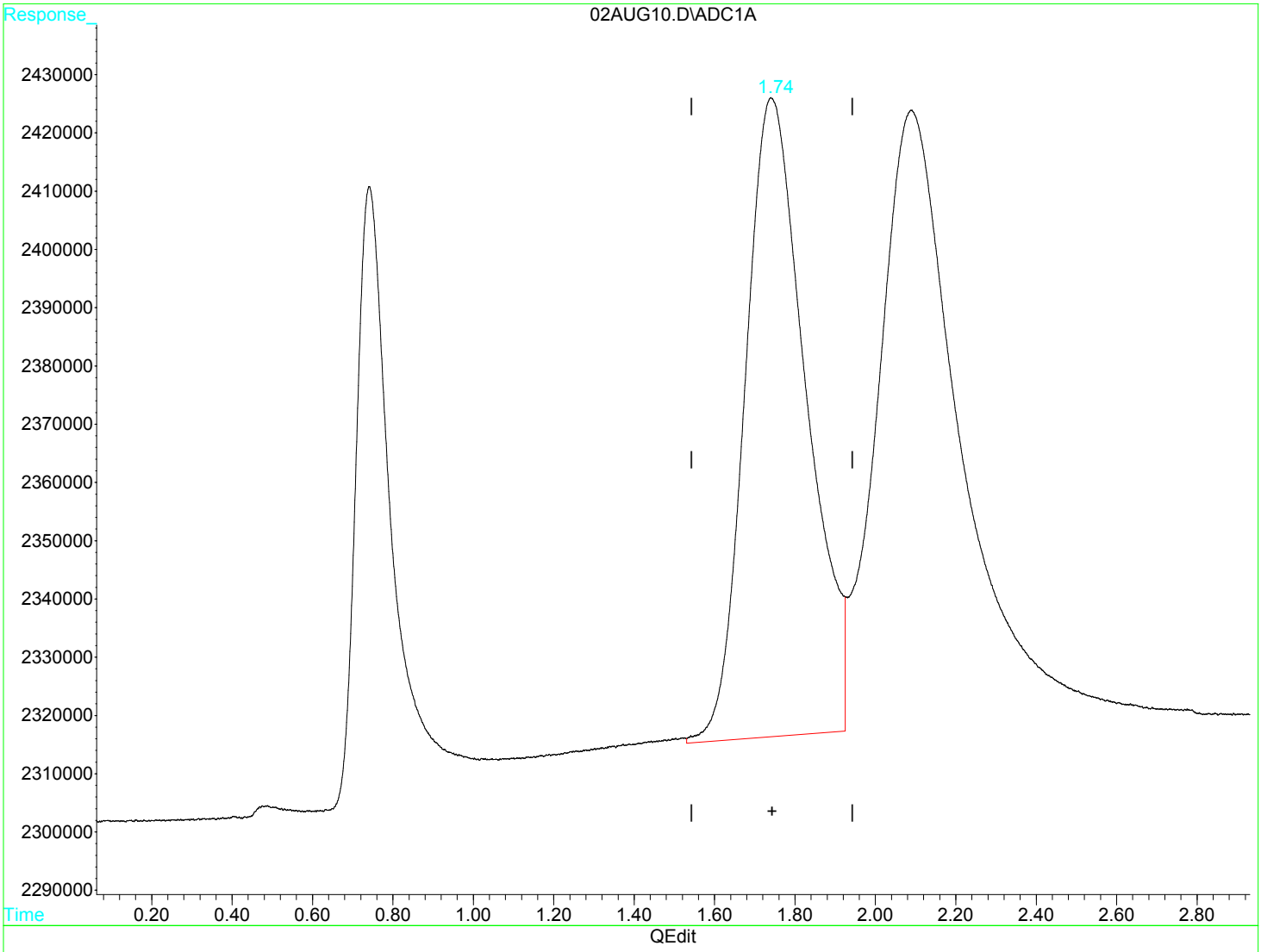
response 6131557

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 28.825ug/L m

response 11601282

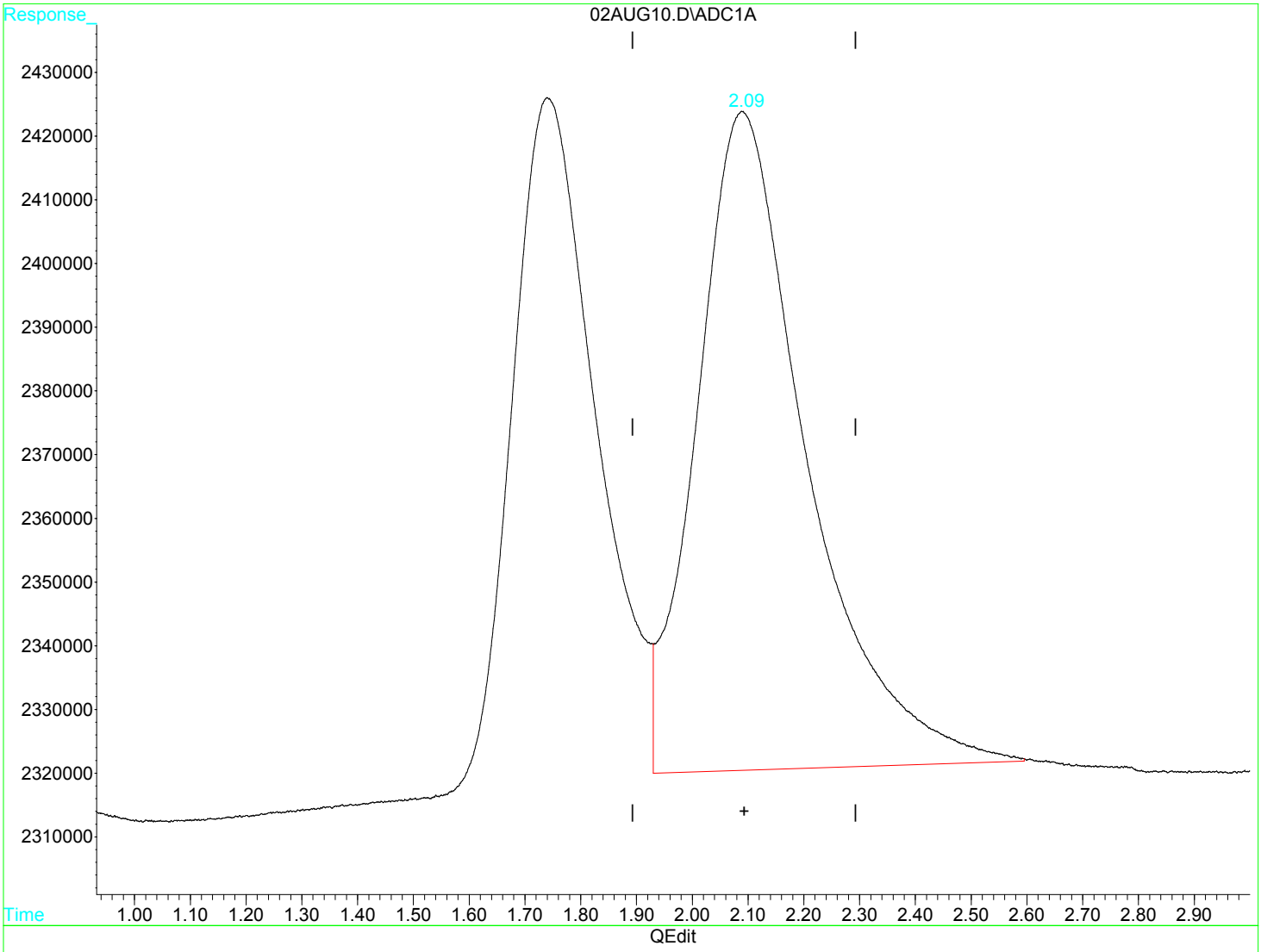
(+) = Expected Retention Time

02AUG10.D RSK175.M Wed Aug 02 14:05:25 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG10.D Vial: 10
Acq On : 2 Aug 2017 1:30 pm Operator: JH2
Sample : 1713649-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.09min 24.361ug/L m

response 14151595

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:08 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.73	6600028	10.9039	ug/L	m
2) m	Ethene	1.73	11564713	28.7338	ug/L	m
3) m	Ethane	2.08	14097647	24.2681	ug/L	m

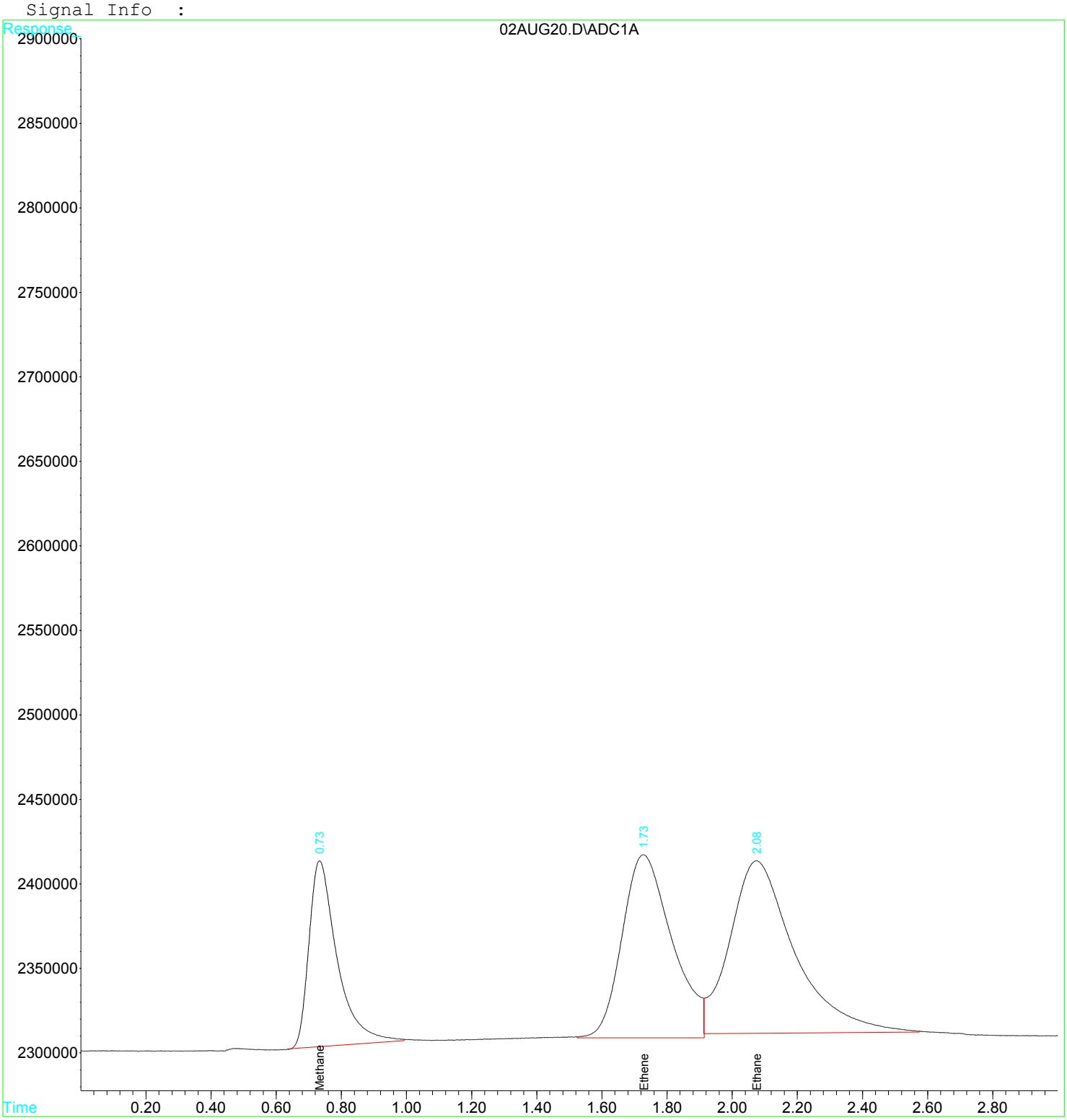
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:08 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

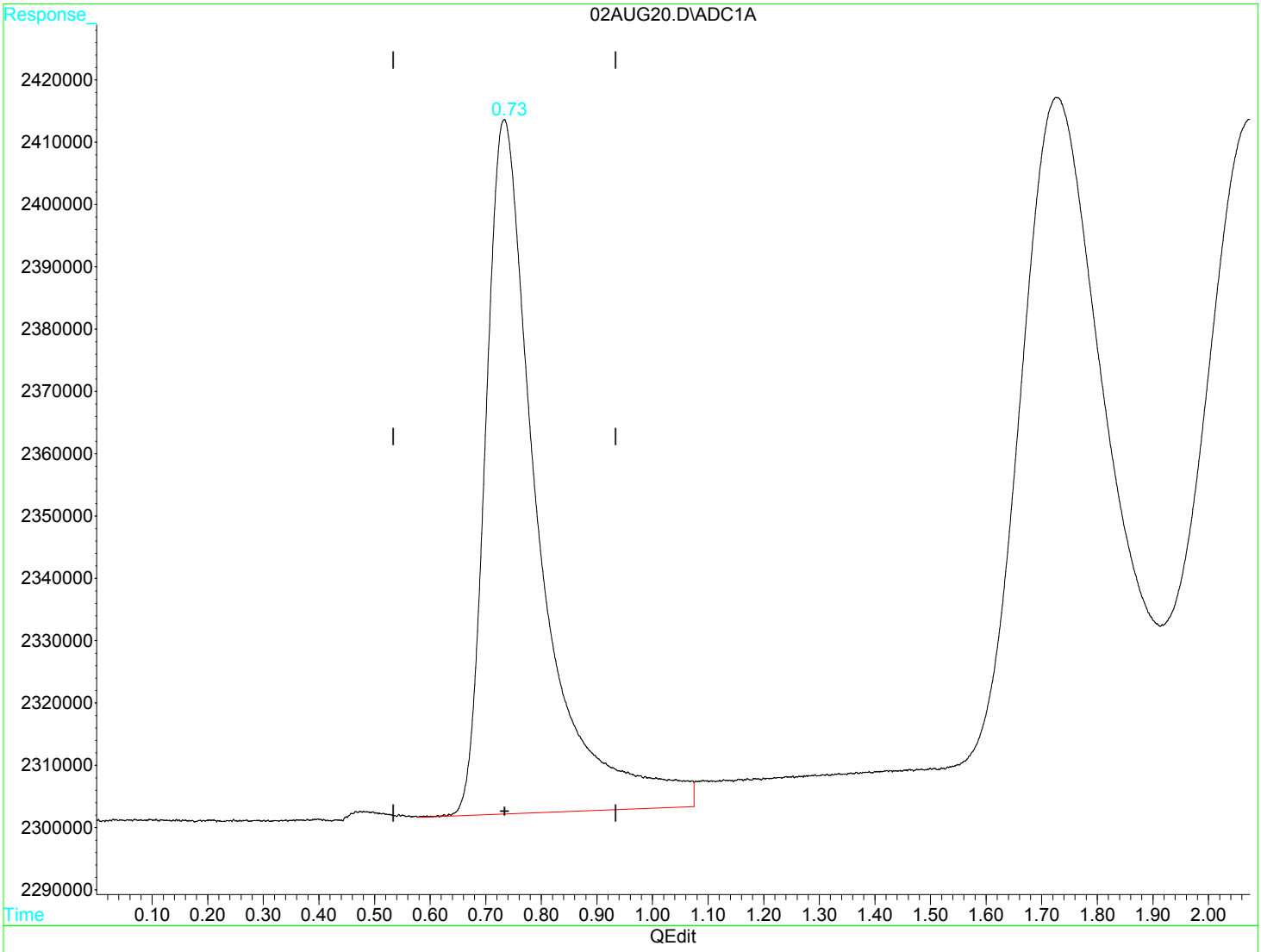
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 12.093ug/L

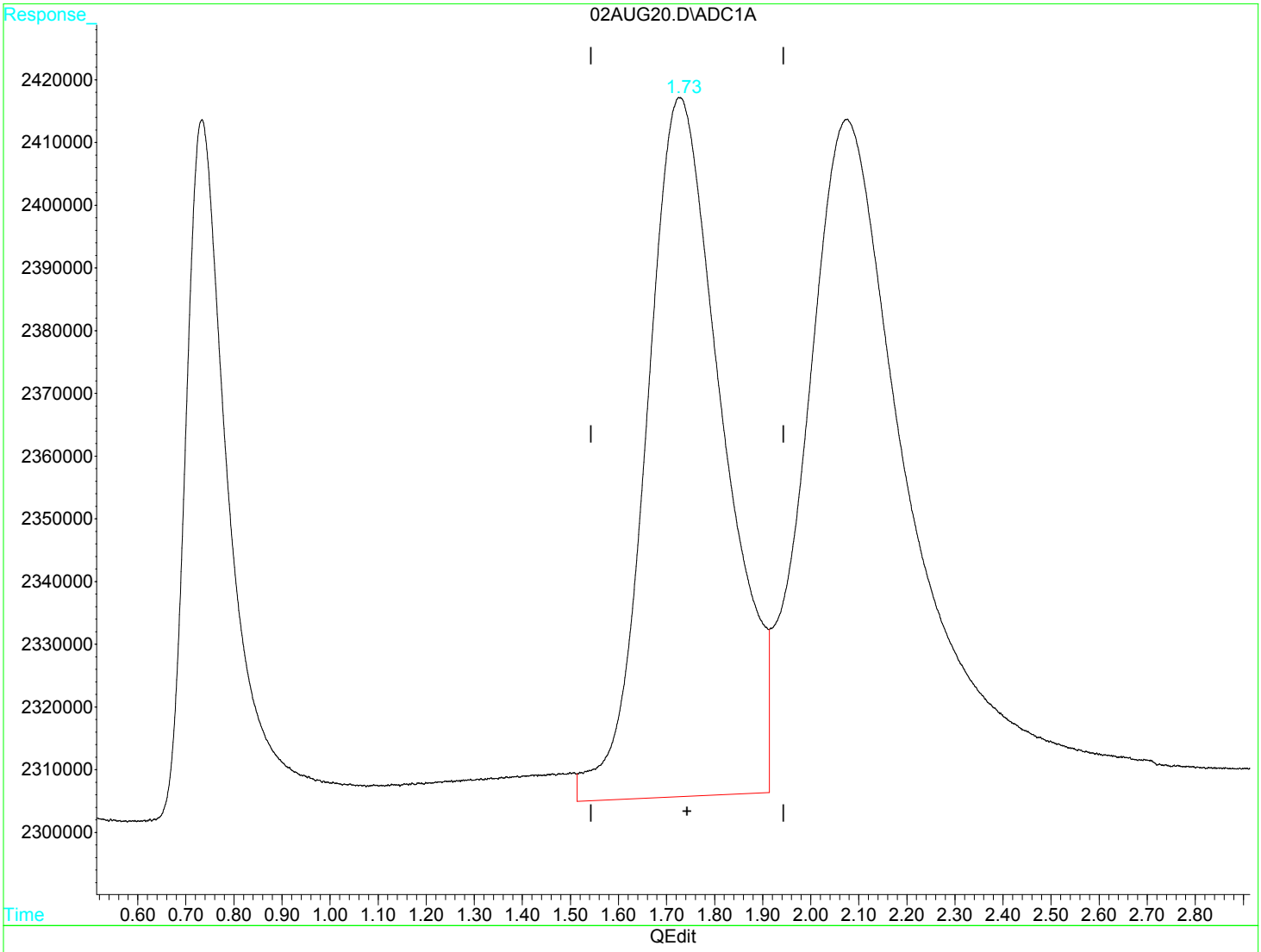
response 7319651

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 30.695ug/L

response 12354240

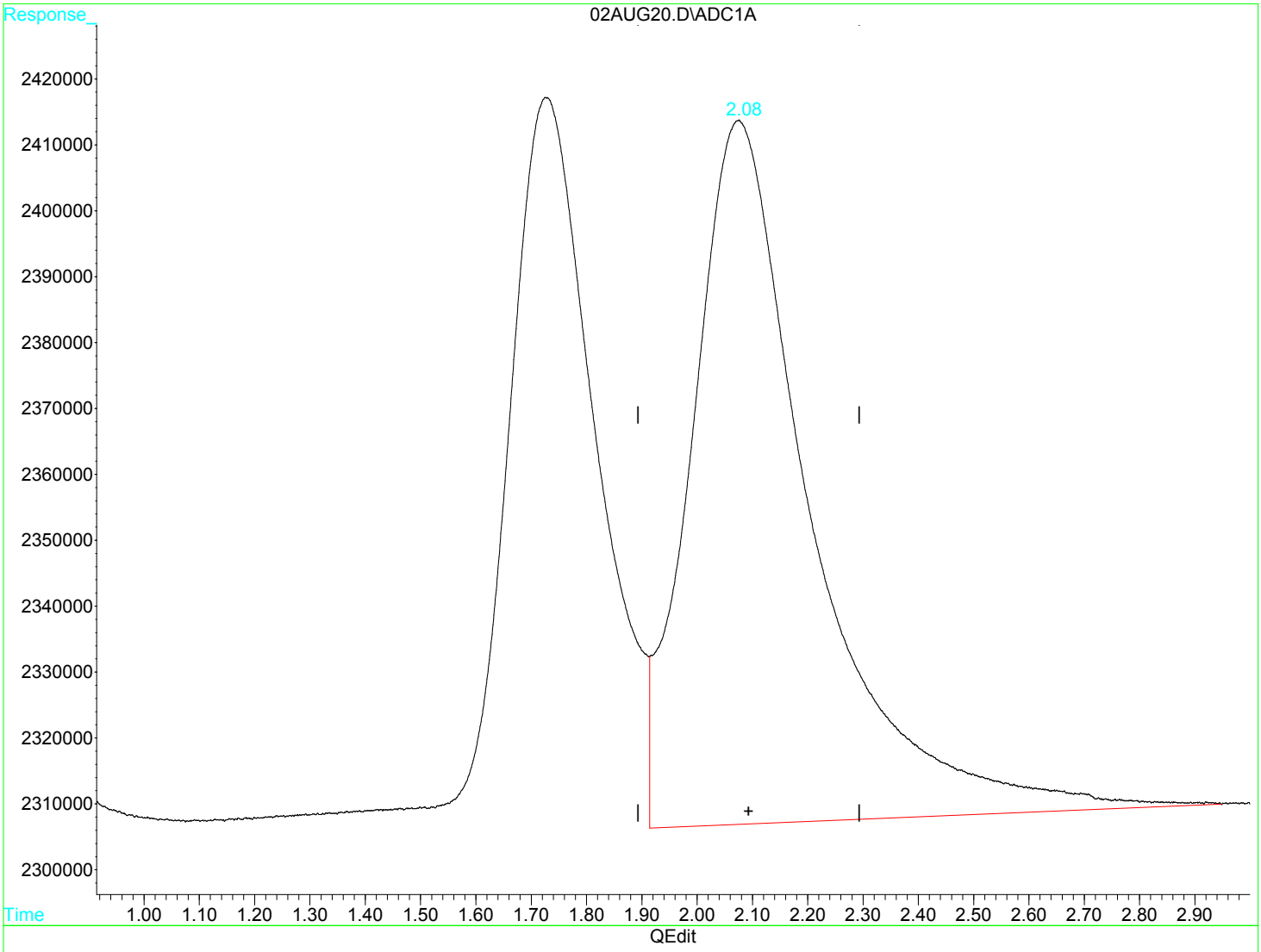
(+) = Expected Retention Time

02AUG20.D RSK175.M Wed Aug 02 15:08:23 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.07min 27.867ug/L

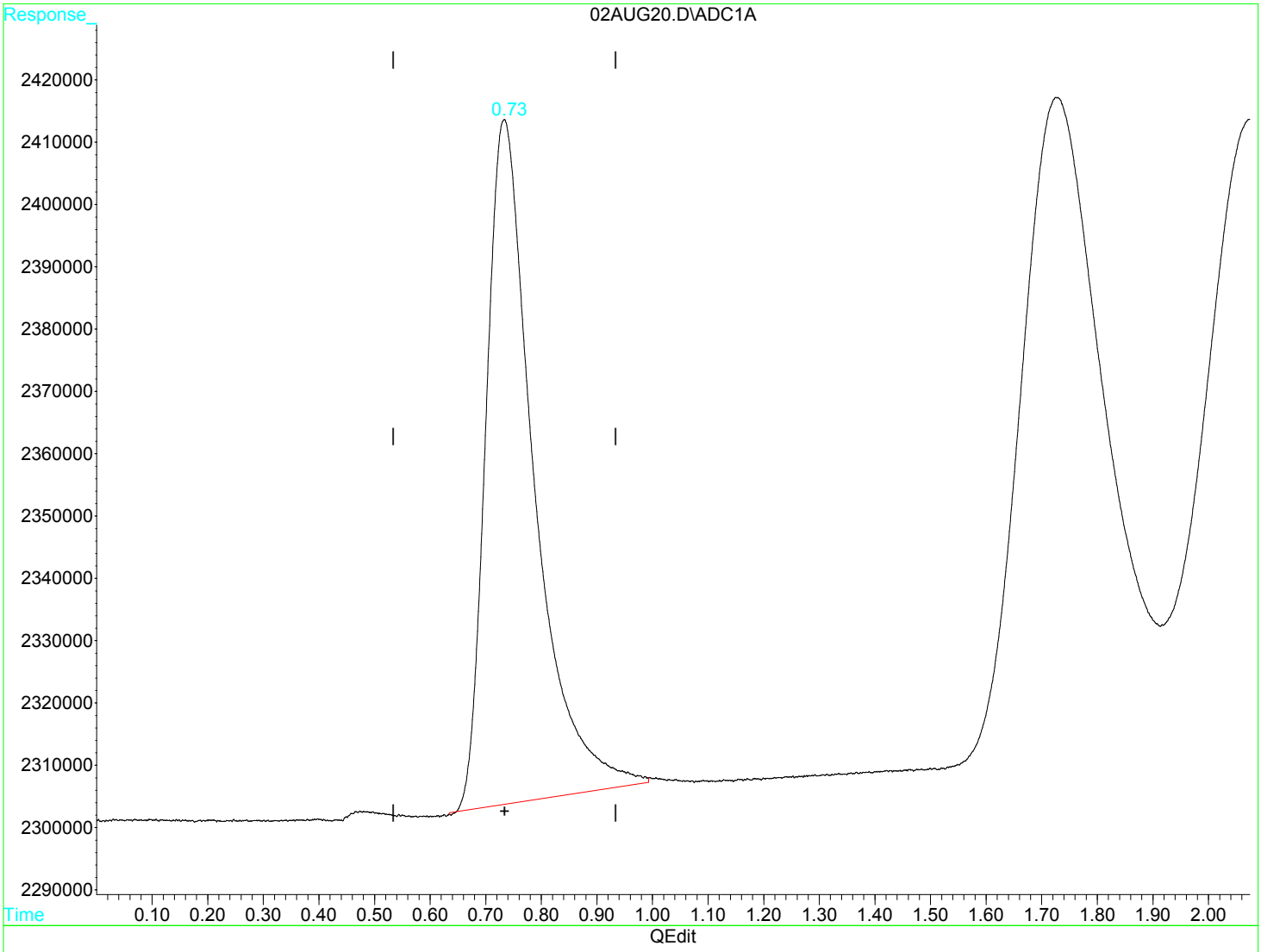
response 16188351

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.904ug/L m

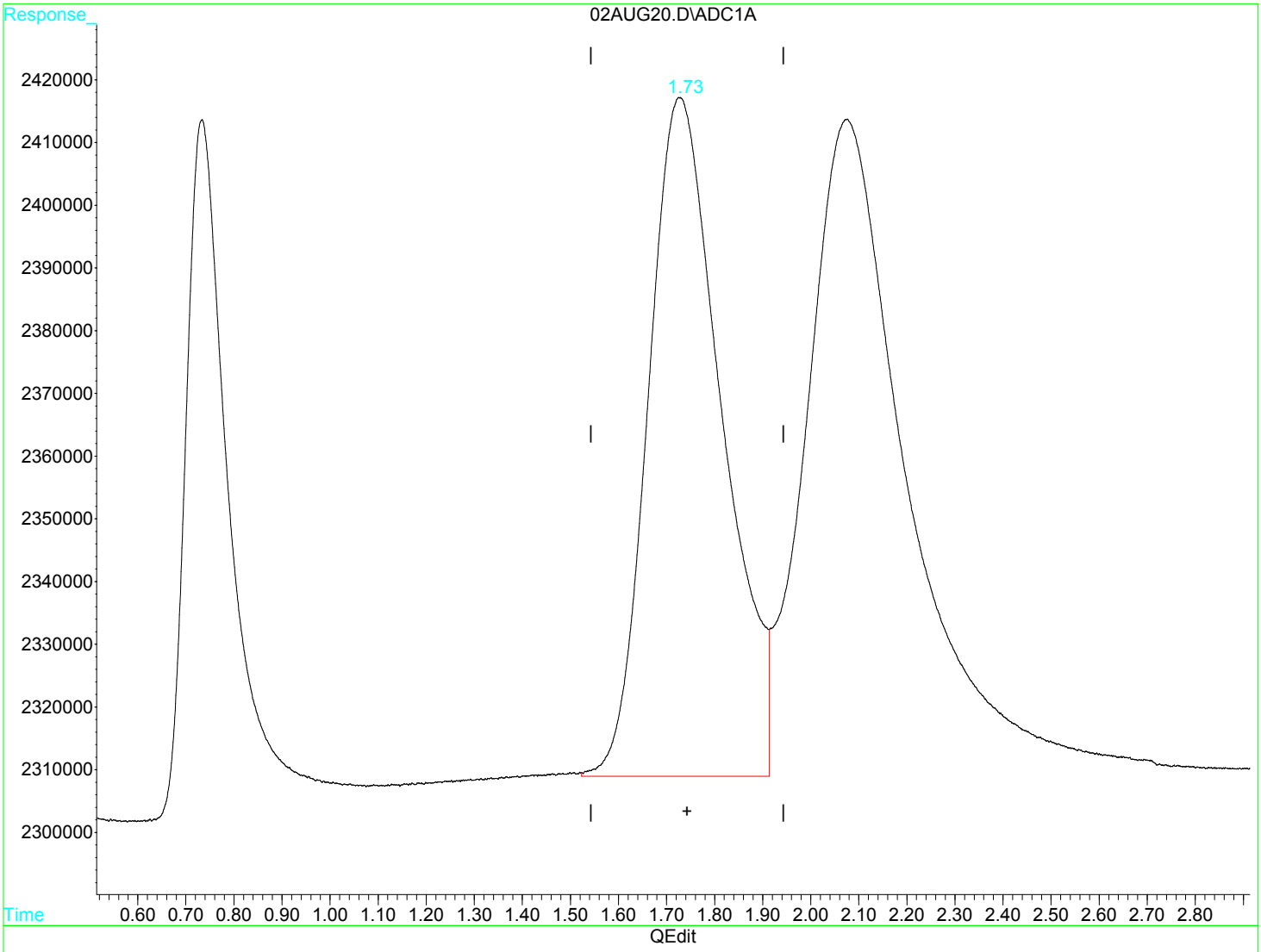
response 6600028

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 28.734ug/L m

response 11564713

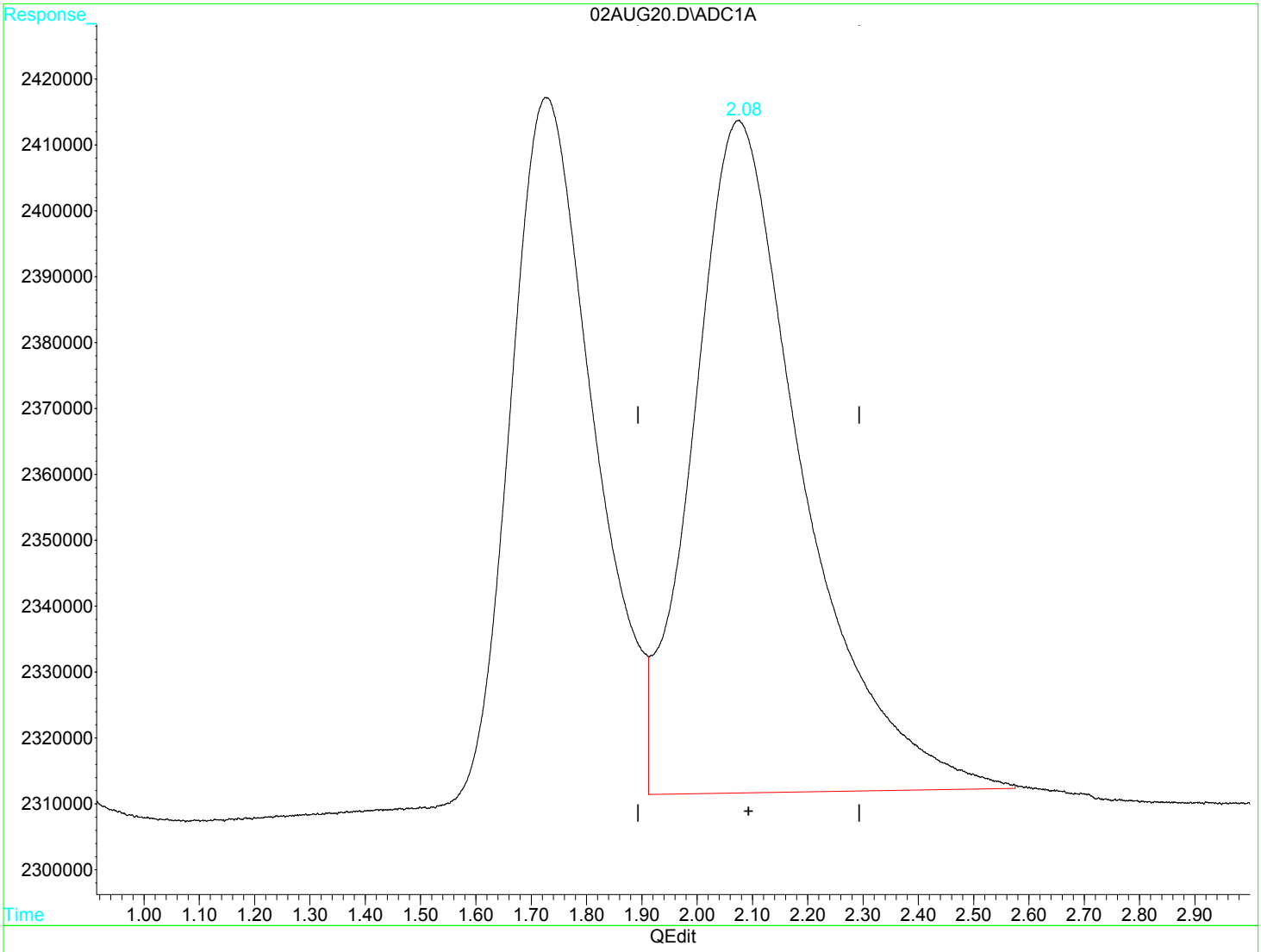
(+) = Expected Retention Time

02AUG20.D RSK175.M Wed Aug 02 15:08:32 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG20.D Vial: 20
Acq On : 2 Aug 2017 3:04 pm Operator: JH2
Sample : 1713649-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 24.268ug/L m

response 14097647

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:09 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.72	6469767	10.6887	ug/L	m
2) m	Ethene	1.71	11384977	28.2872	ug/L	m
3) m	Ethane	2.06	14267964	24.5613	ug/L	m

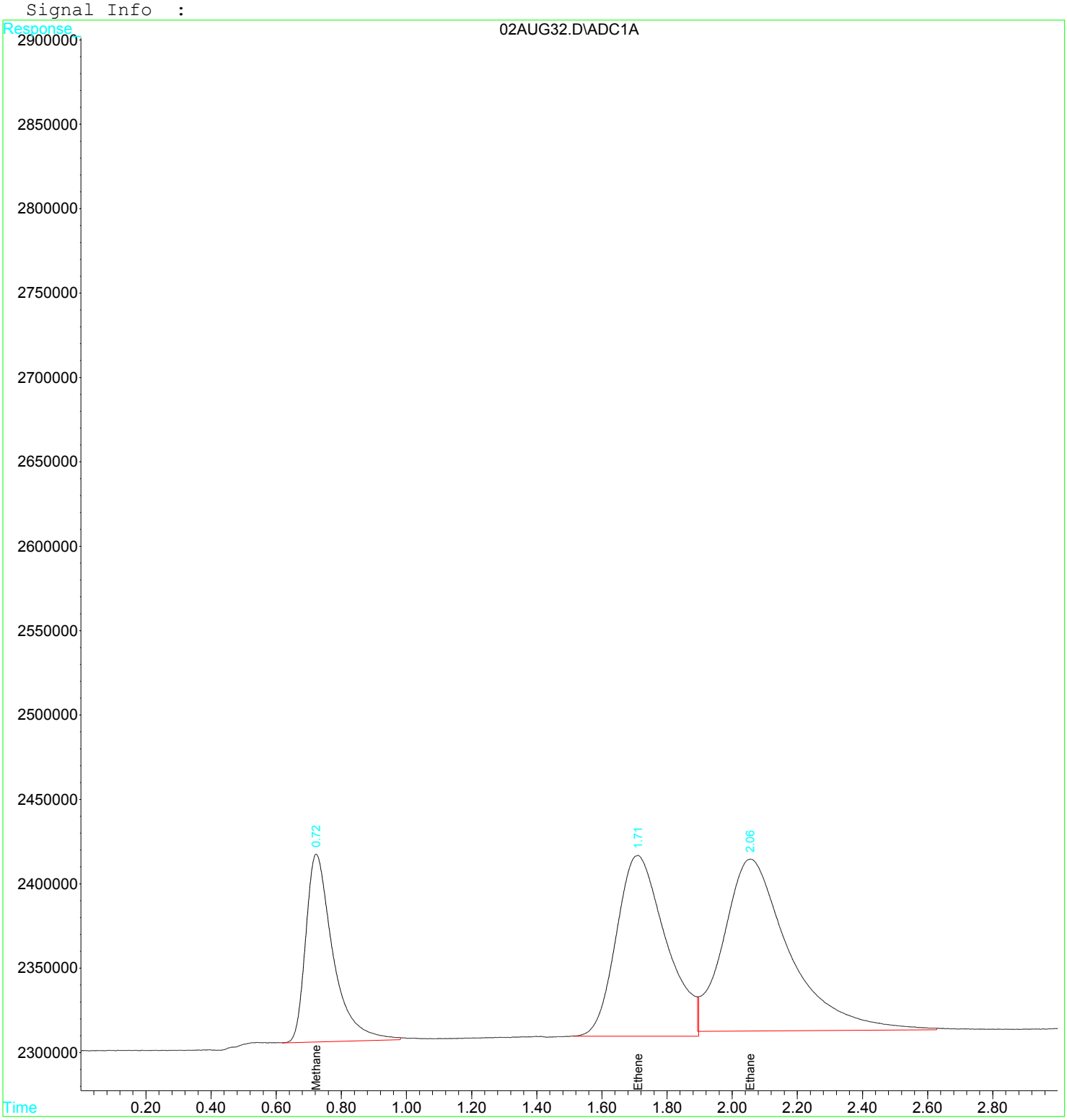
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:09 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

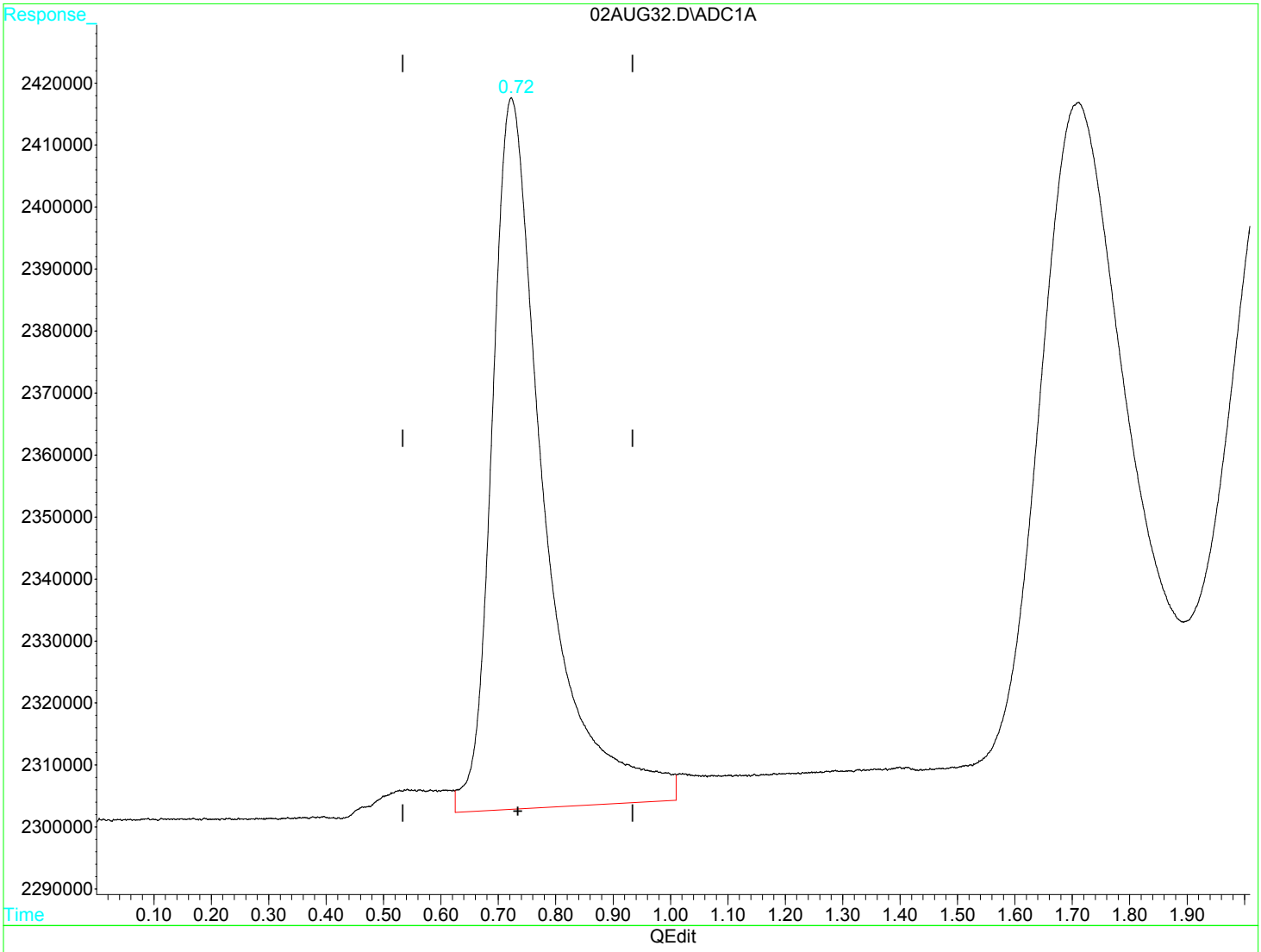
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:08 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 12.029ug/L

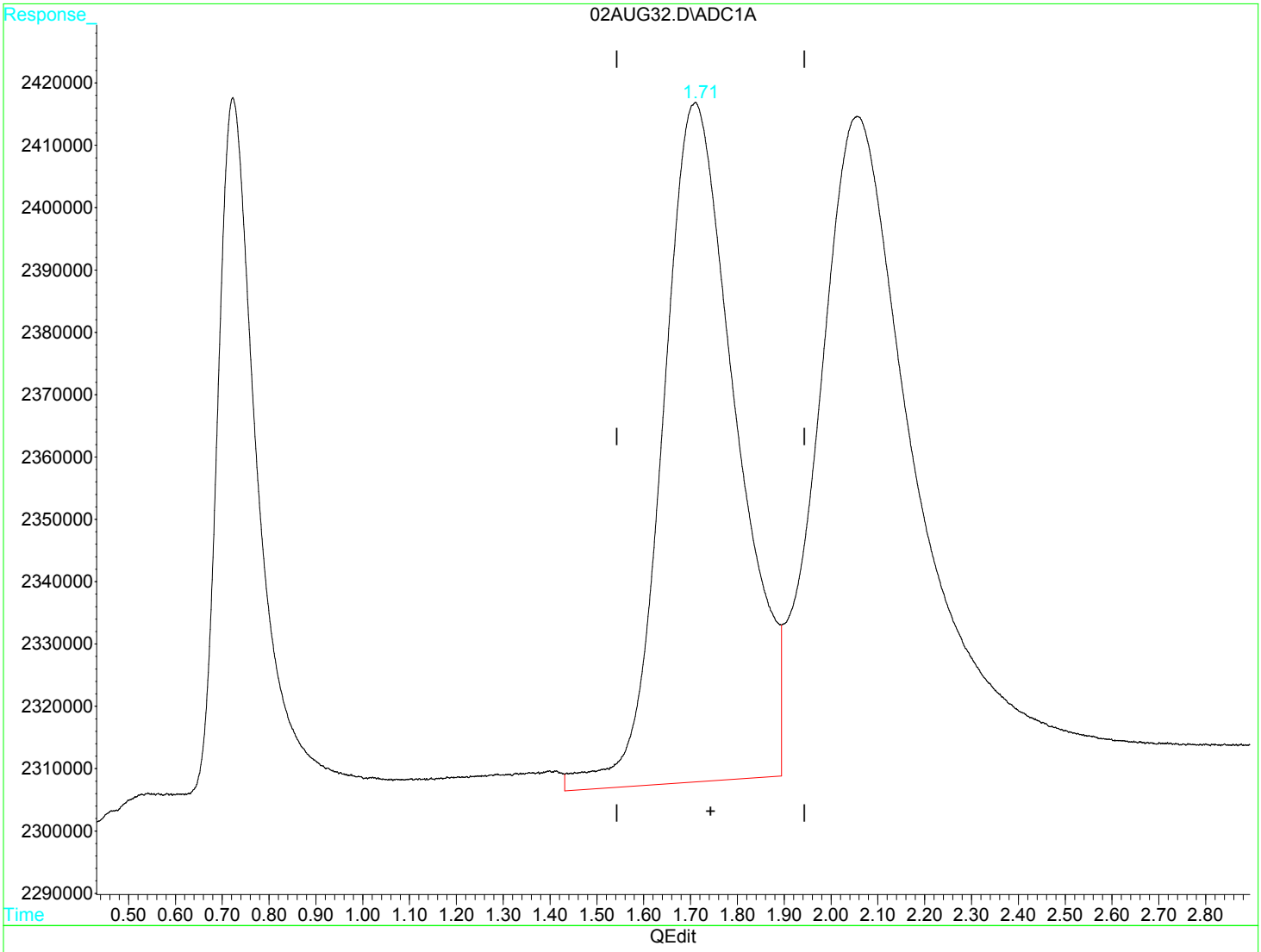
response 7281097

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:08 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.71min 29.573ug/L

response 11902371

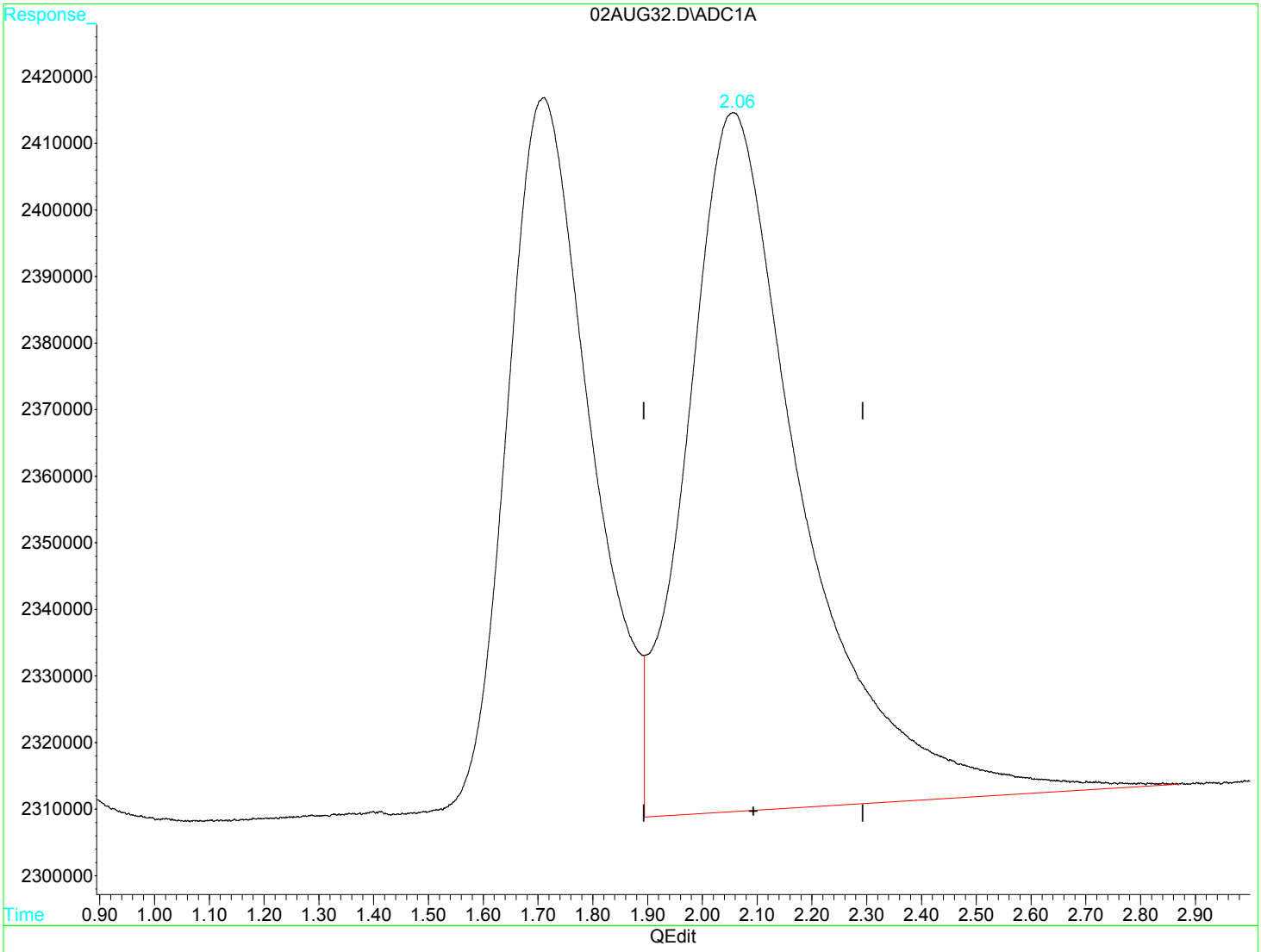
(+) = Expected Retention Time

02AUG32.D RSK175.M Wed Aug 02 16:09:25 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:08 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.06min 26.612ug/L

response 15459382

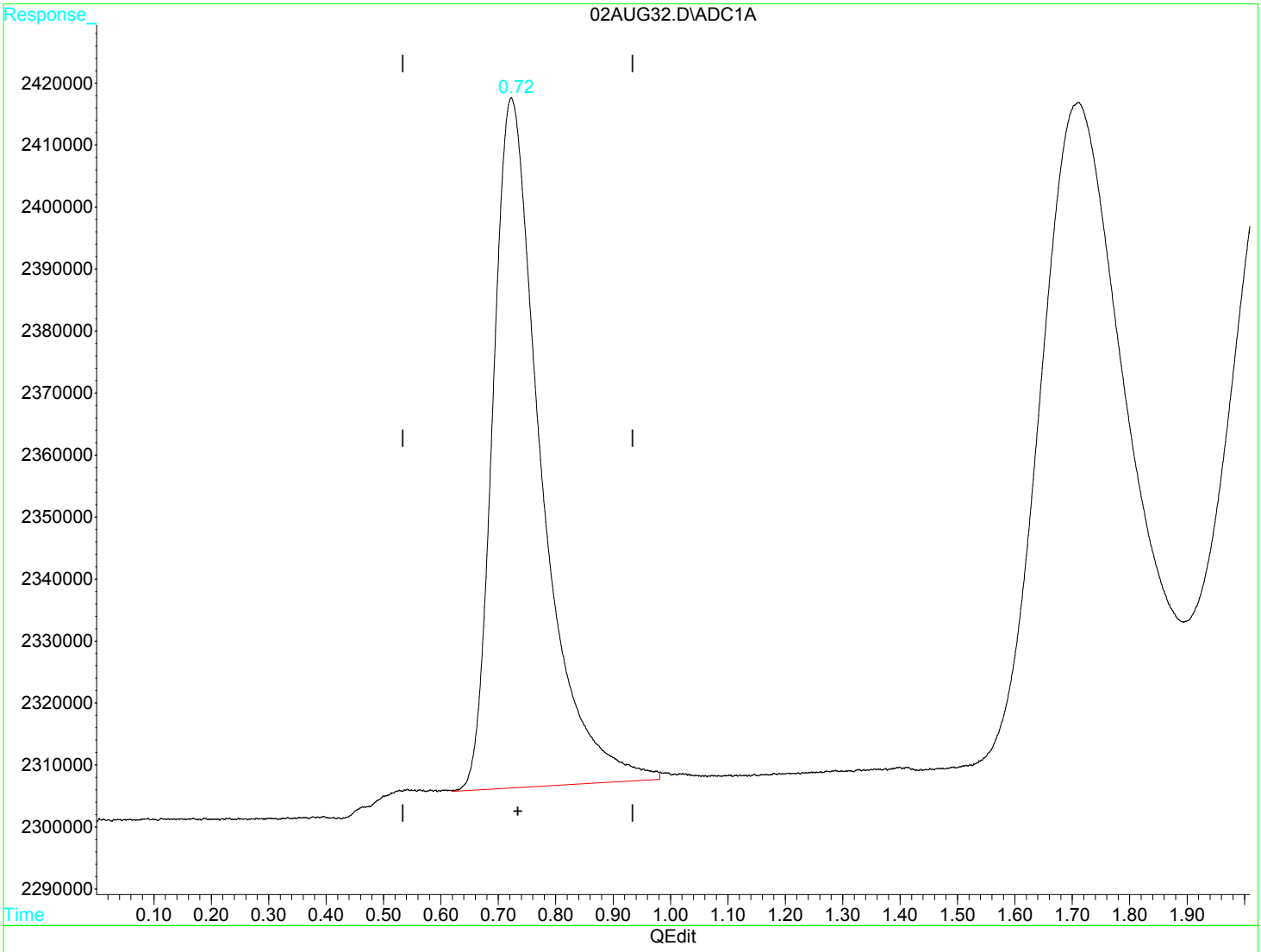
(+) = Expected Retention Time

02AUG32.D RSK175.M Wed Aug 02 16:09:36 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:08 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 10.689ug/L m

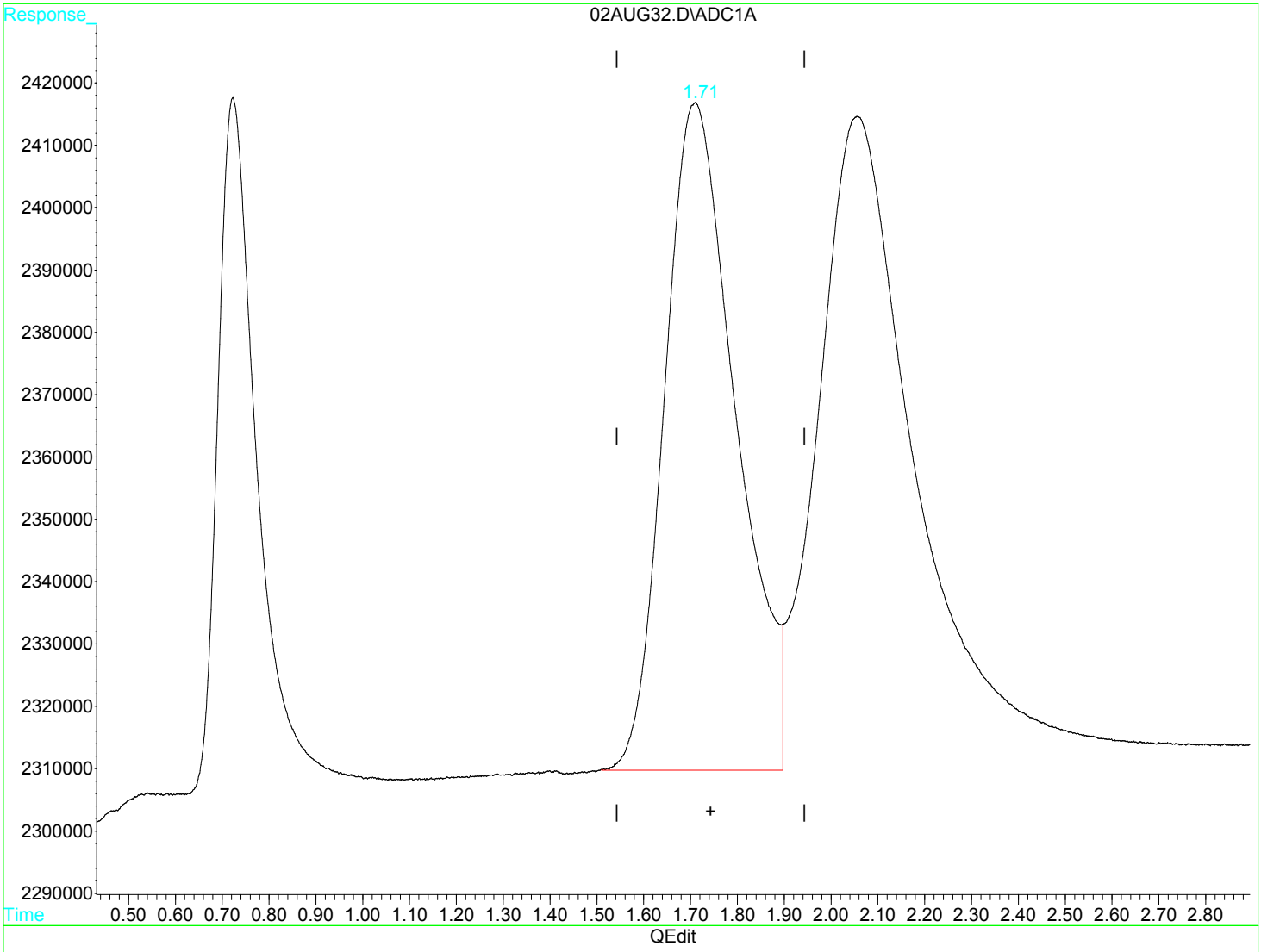
response 6469767

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:08 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.71min 28.287ug/L m

response 11384977

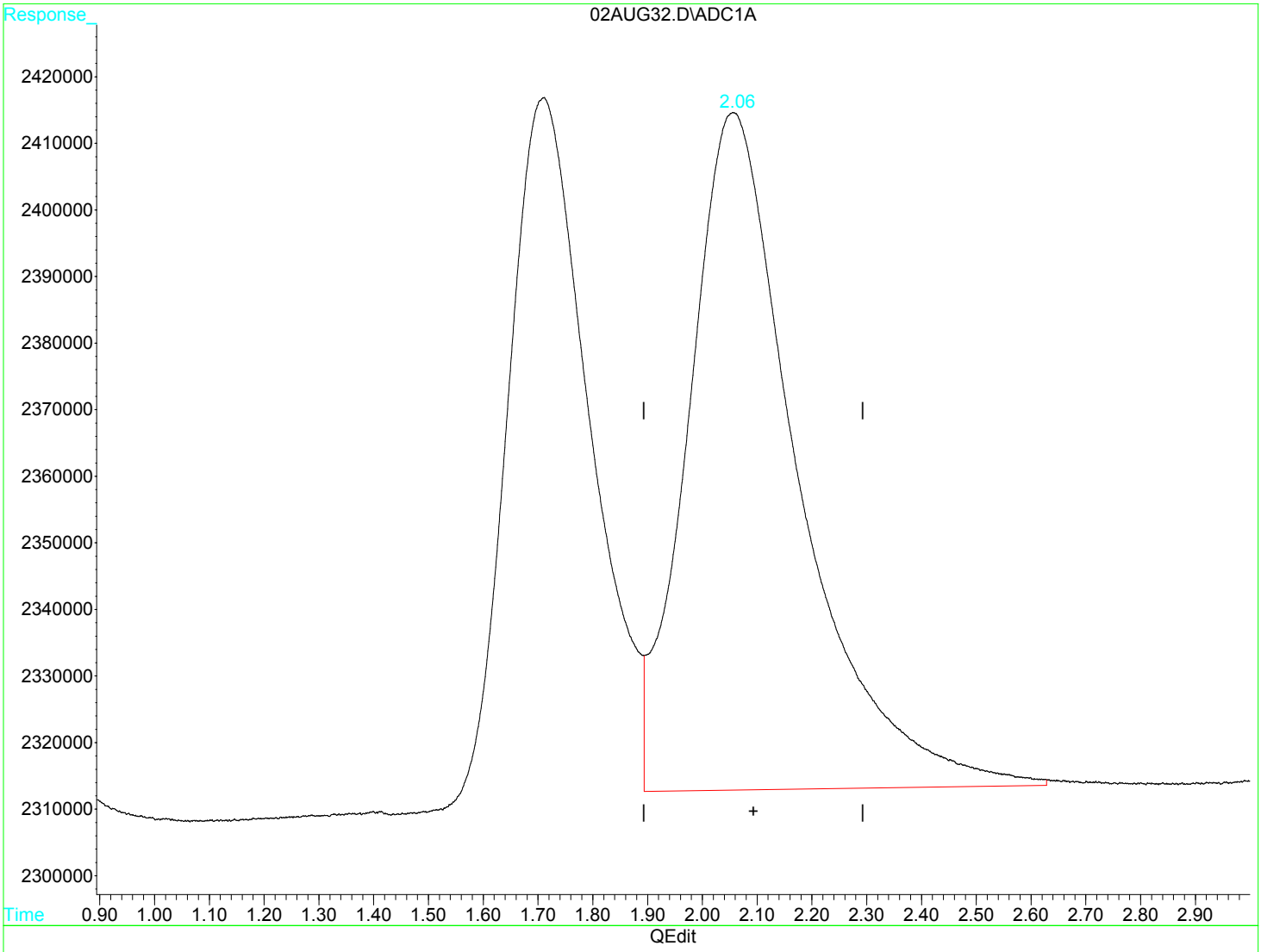
(+) = Expected Retention Time

02AUG32.D RSK175.M Wed Aug 02 16:09:31 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG32.D Vial: 32
Acq On : 2 Aug 2017 4:05 pm Operator: JH2
Sample : 1713649-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:08 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.06min 24.561ug/L m

response 14267964

(+) = Expected Retention Time

02AUG32.D RSK175.M Wed Aug 02 16:09:43 2017 MSD1

Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG03.D Vial: 3
Acq On : 2 Aug 2017 12:46 pm Operator: JH2
Sample : 1713649-CCB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

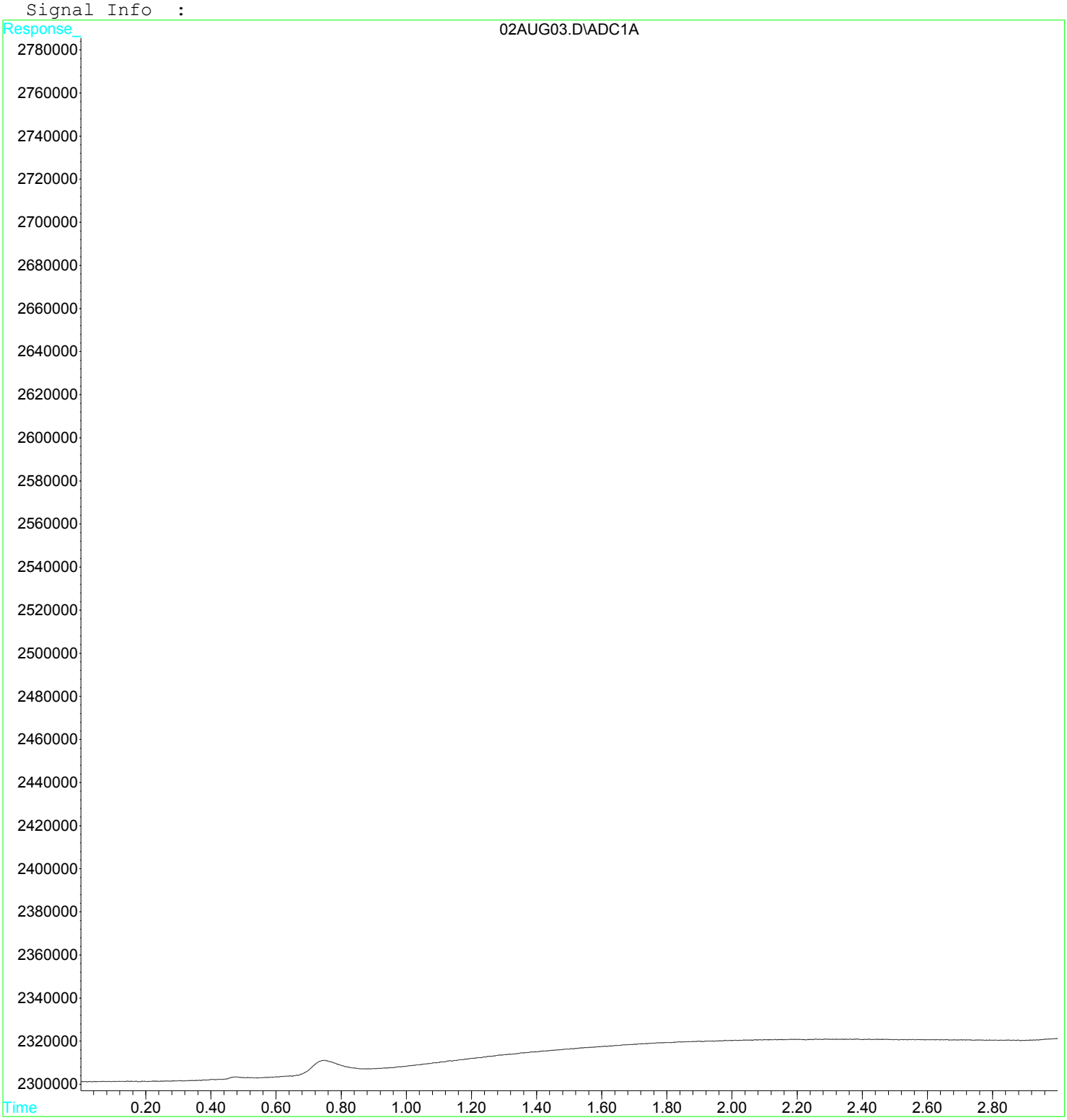
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG03.D Vial: 3
Acq On : 2 Aug 2017 12:46 pm Operator: JH2
Sample : 1713649-CCB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 13:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG11.D Vial: 11
Acq On : 2 Aug 2017 1:41 pm Operator: JH2
Sample : 1713649-CCB2 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

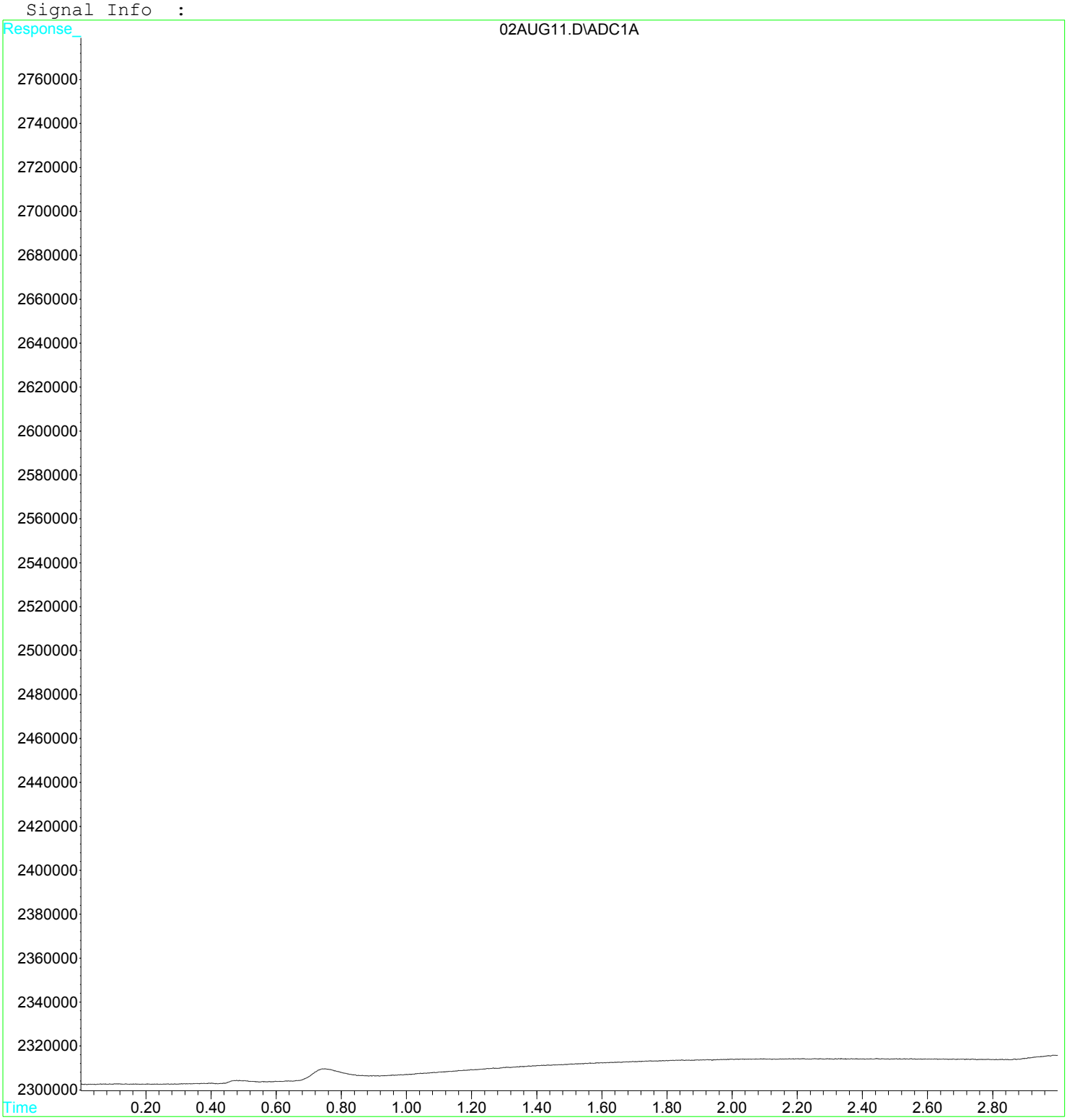
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG11.D Vial: 11
Acq On : 2 Aug 2017 1:41 pm Operator: JH2
Sample : 1713649-CCB2 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 14:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG21.D Vial: 21
Acq On : 2 Aug 2017 3:09 pm Operator: JH2
Sample : 1713649-CCB3 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:15 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

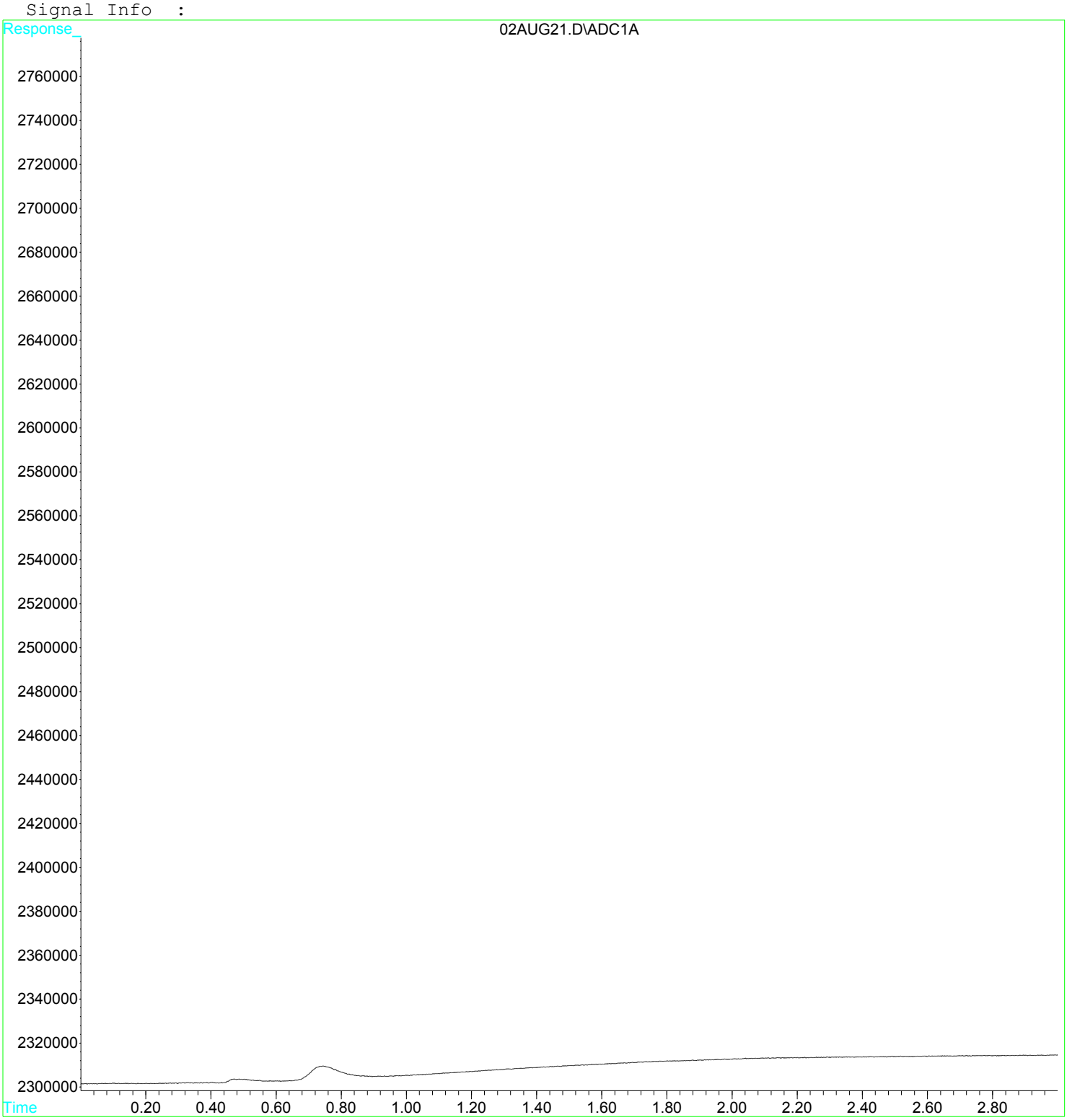
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG21.D Vial: 21
Acq On : 2 Aug 2017 3:09 pm Operator: JH2
Sample : 1713649-CCB3 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 15:15 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG33.D Vial: 33
Acq On : 2 Aug 2017 4:13 pm Operator: JH2
Sample : 1713649-CCB4 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:19 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

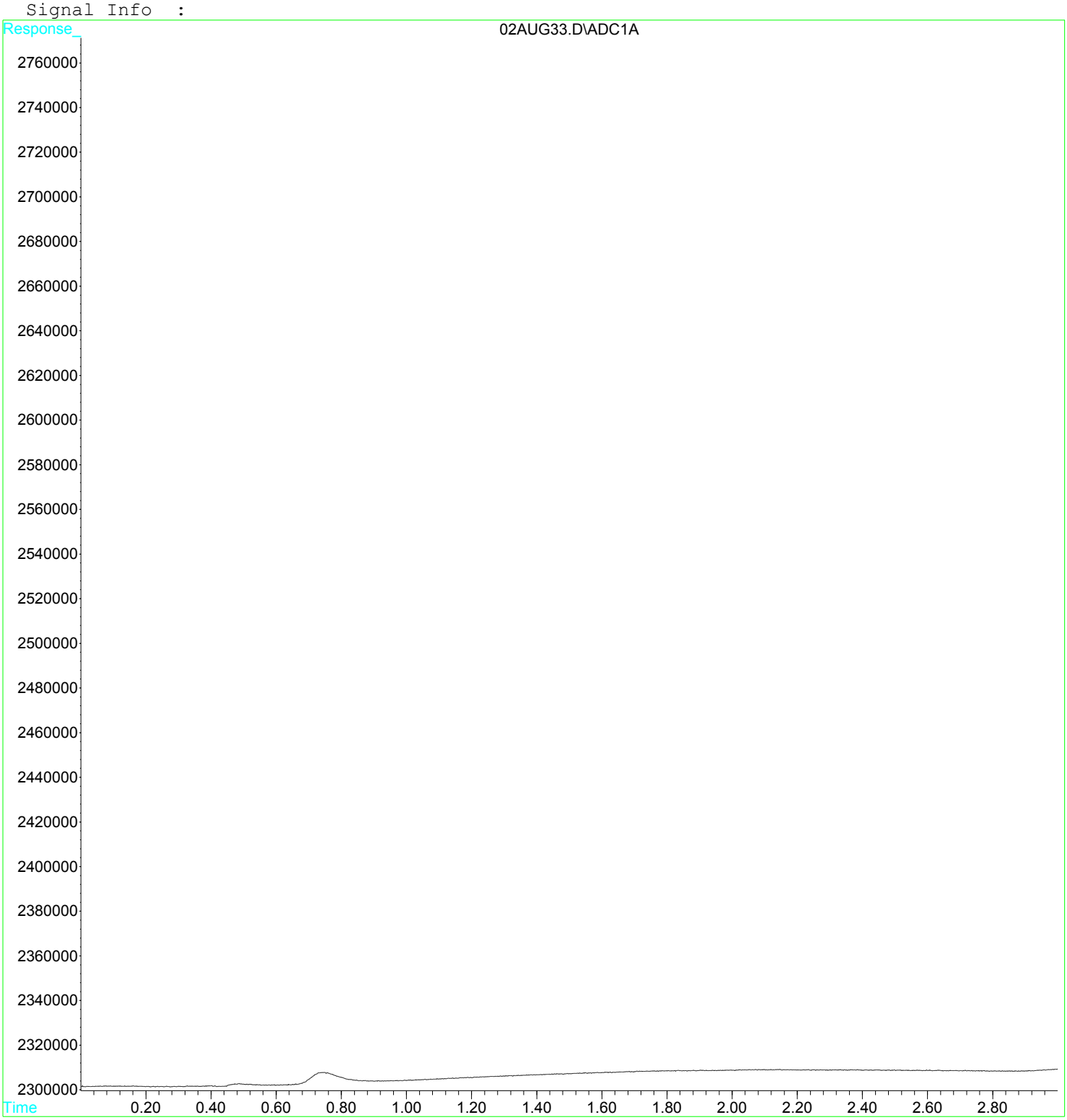
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG33.D Vial: 33
Acq On : 2 Aug 2017 4:13 pm Operator: JH2
Sample : 1713649-CCB4 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:19 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG04.D Vial: 4
Acq On : 2 Aug 2017 12:50 pm Operator: JH2
Sample : B[G2607-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units	
Target Compounds					
1) m Methane	0.00	0	N.D.	ug/L	d
2) m Ethene	0.00	0	N.D.	ug/L	d
3) m Ethane	0.00	0	N.D.	ug/L	d

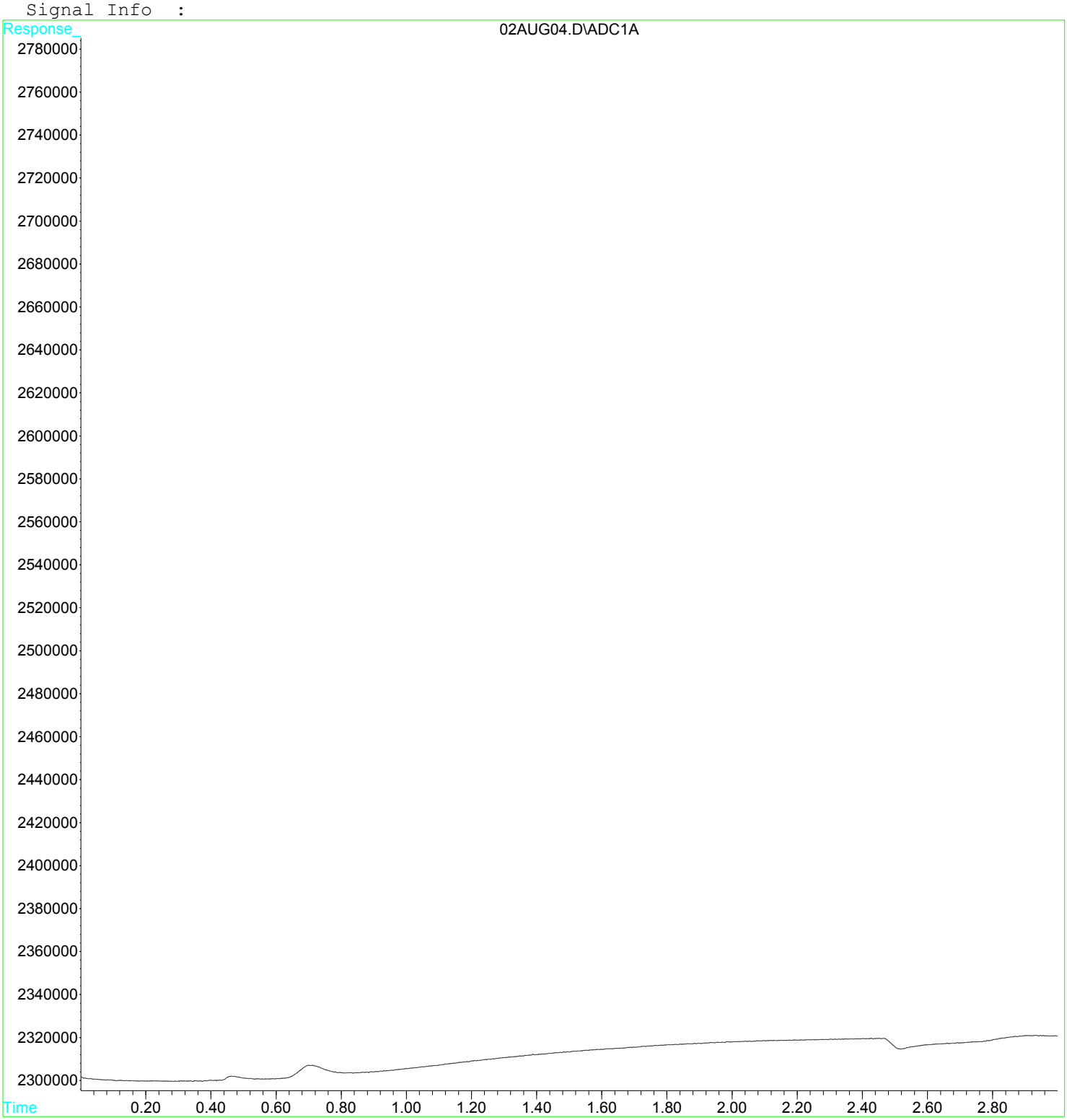
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG04.D Vial: 4
Acq On : 2 Aug 2017 12:50 pm Operator: JH2
Sample : B[G2607-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:16 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.73	6597001	10.8989 ug/L
2) m	Ethene	1.73	11268938	27.9989 ug/L m
3) m	Ethane	2.08	14275087	24.5736 ug/L m

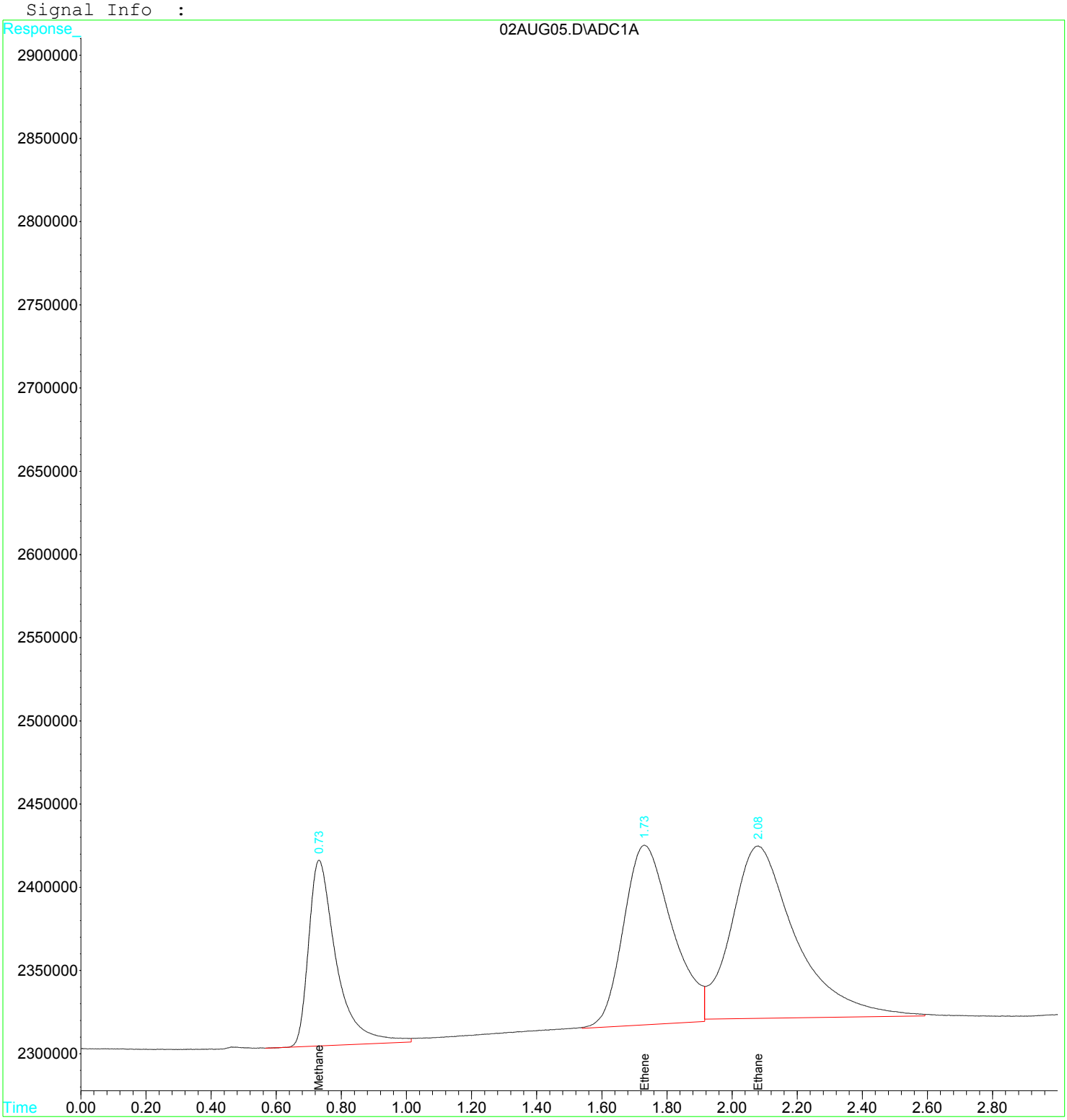
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:16 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

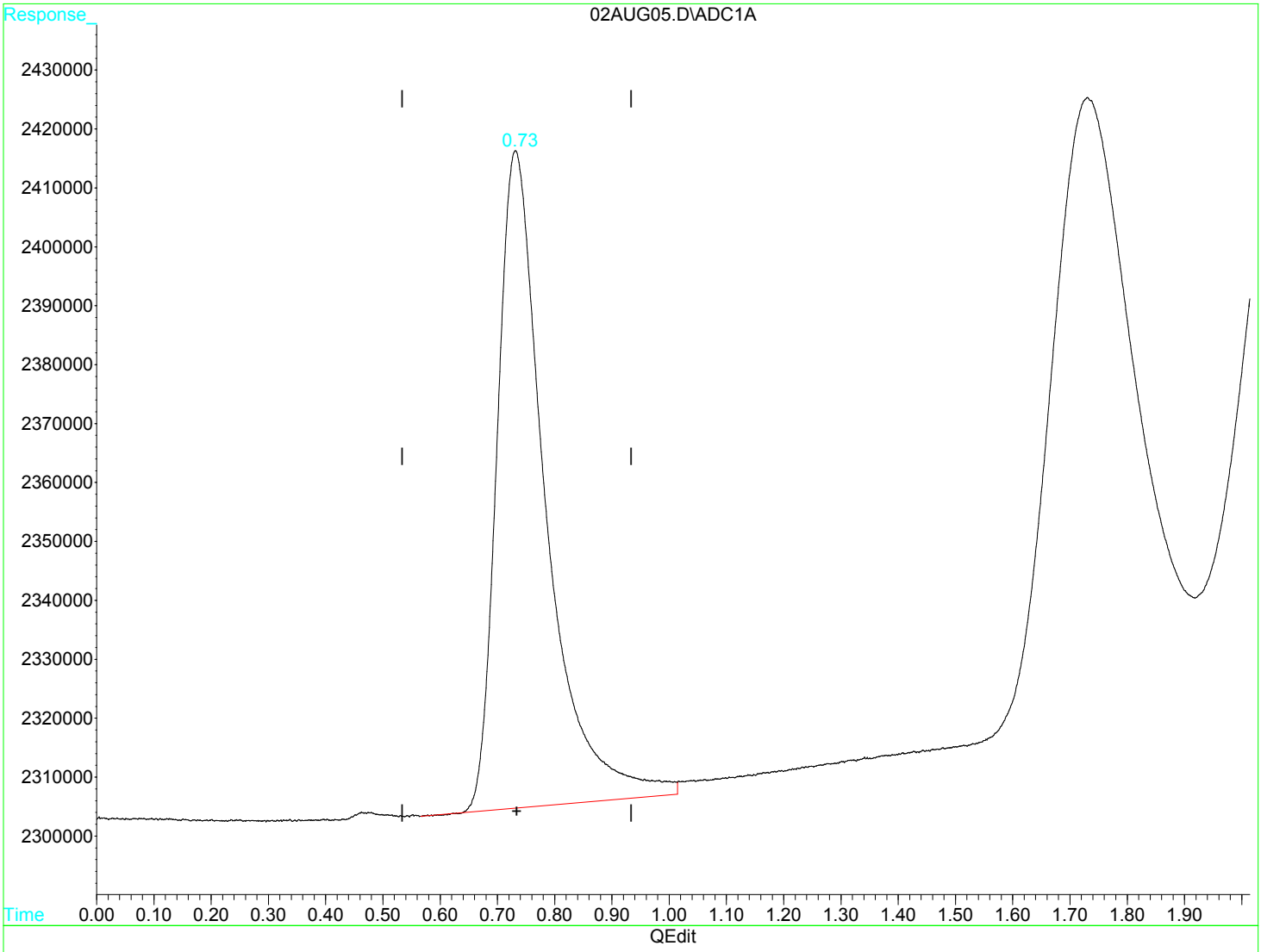
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:14 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.899ug/L

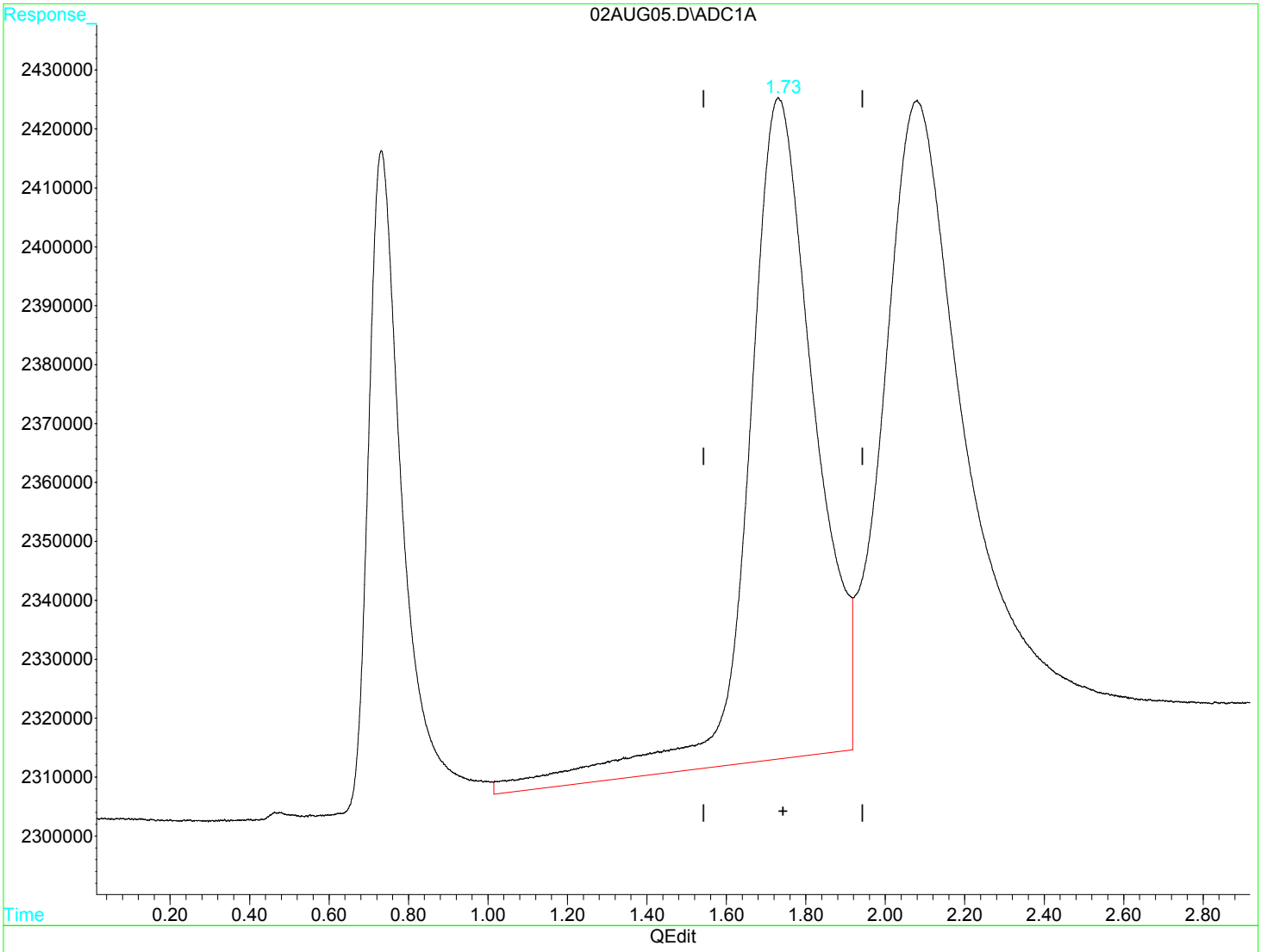
response 6597001

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:14 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 32.759ug/L

response 13184566

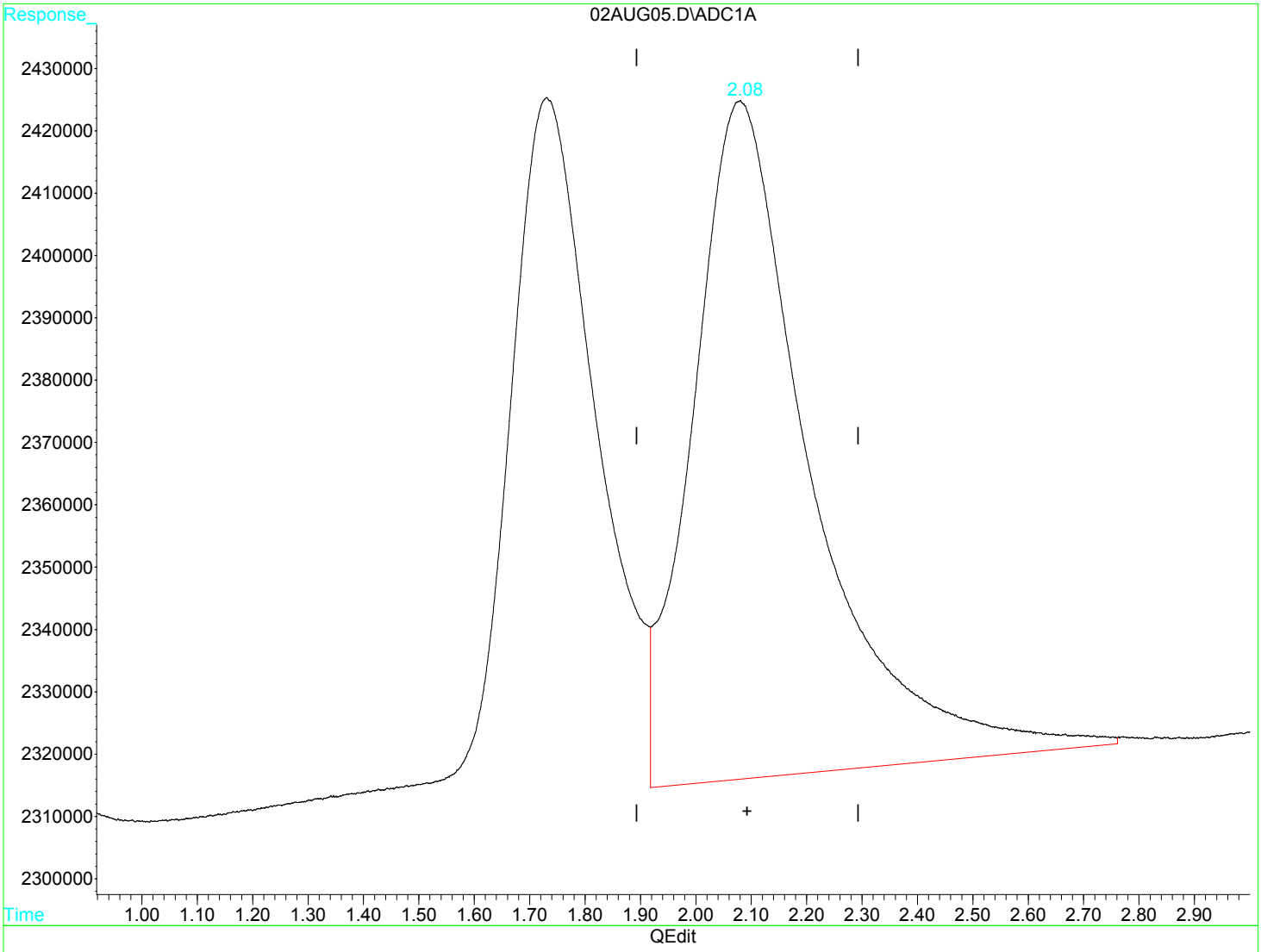
(+) = Expected Retention Time

02AUG05.D RSK175.M Wed Aug 02 16:15:59 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:14 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 27.911ug/L

response 16213650

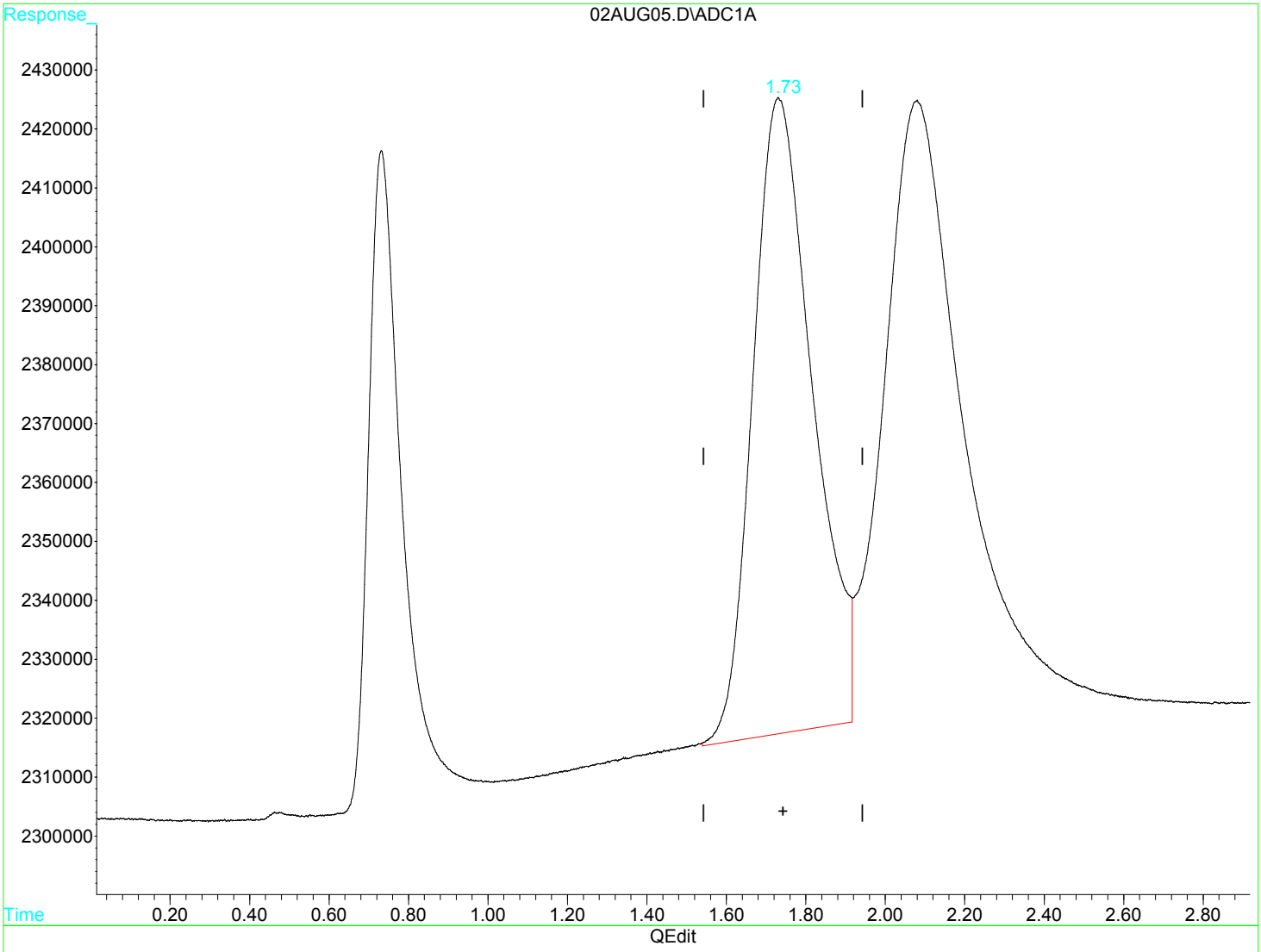
(+) = Expected Retention Time

02AUG05.D RSK175.M Wed Aug 02 16:16:10 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:14 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 27.999ug/L m

response 11268938

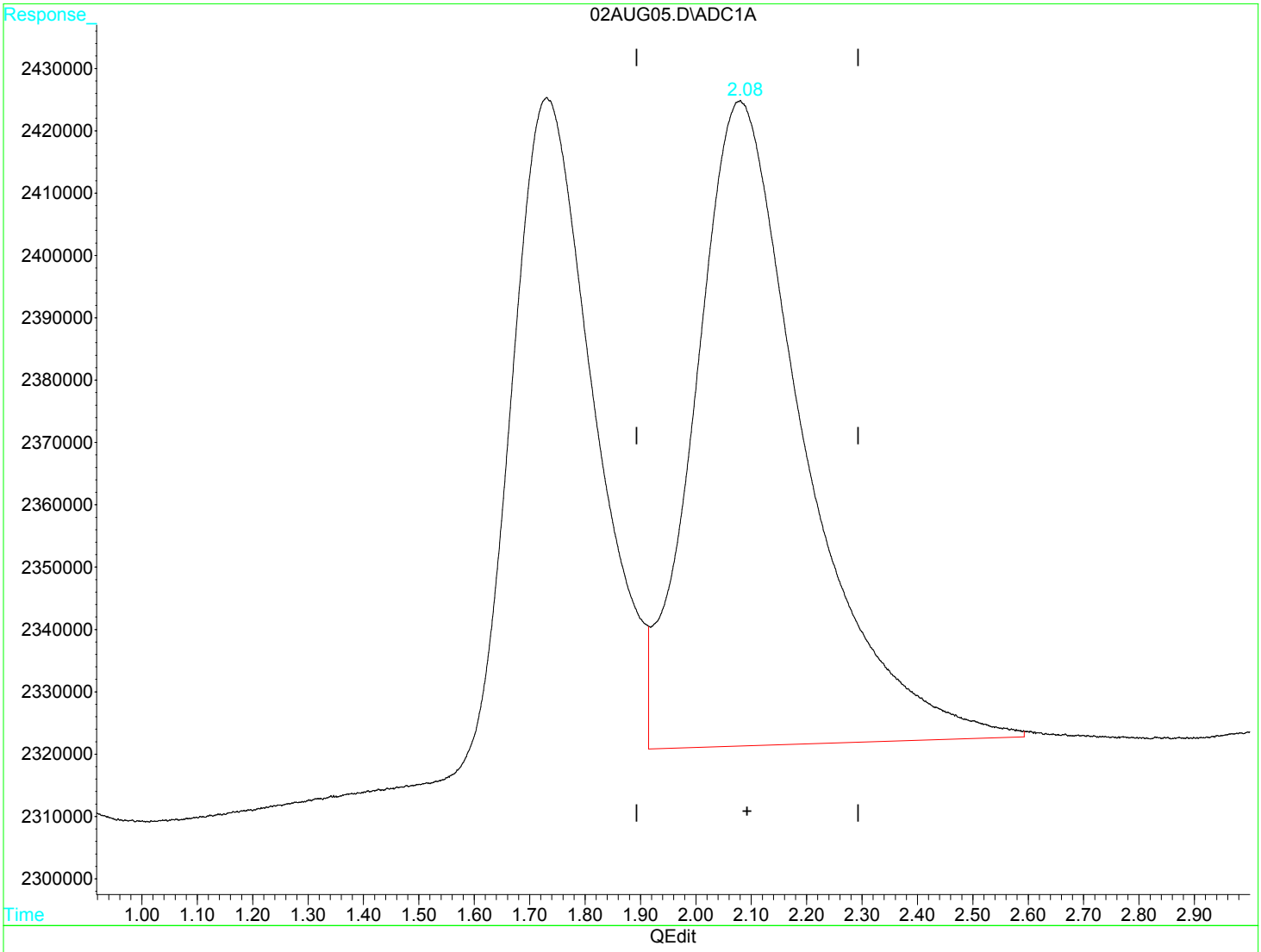
(+) = Expected Retention Time

02AUG05.D RSK175.M Wed Aug 02 16:16:05 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG05.D Vial: 5
Acq On : 2 Aug 2017 12:56 pm Operator: JH2
Sample : B[G2607-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:14 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 24.574ug/L m

response 14275087

(+) = Expected Retention Time

02AUG05.D RSK175.M Wed Aug 02 16:16:17 2017 MSD1

Raw Data - Lab Control Sample Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.73	6470336	10.6896	ug/L	
2) m	Ethene	1.73	10591341	26.3154	ug/L	m
3) m	Ethane	2.08	13481601	23.2076	ug/L	m

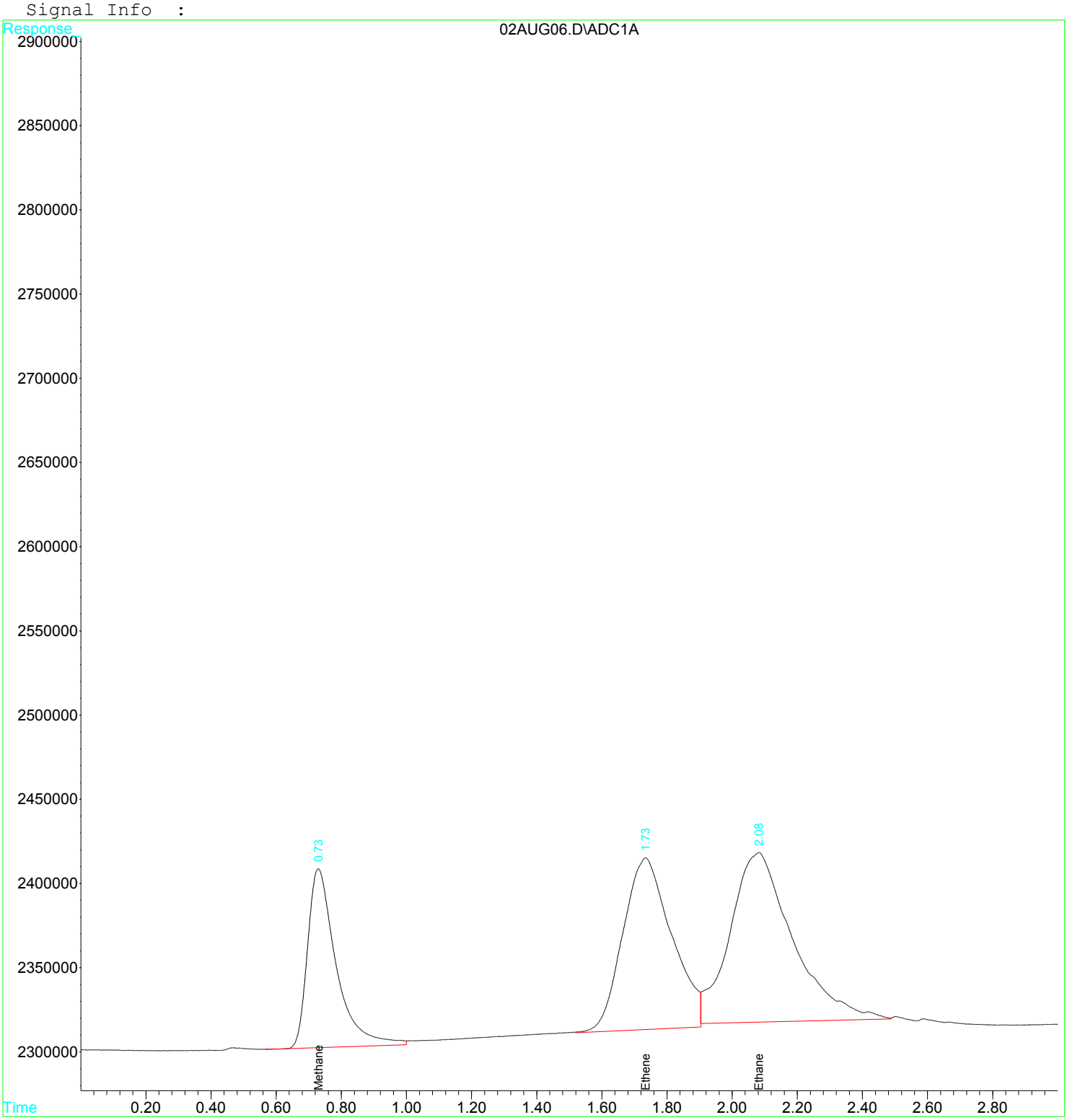
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

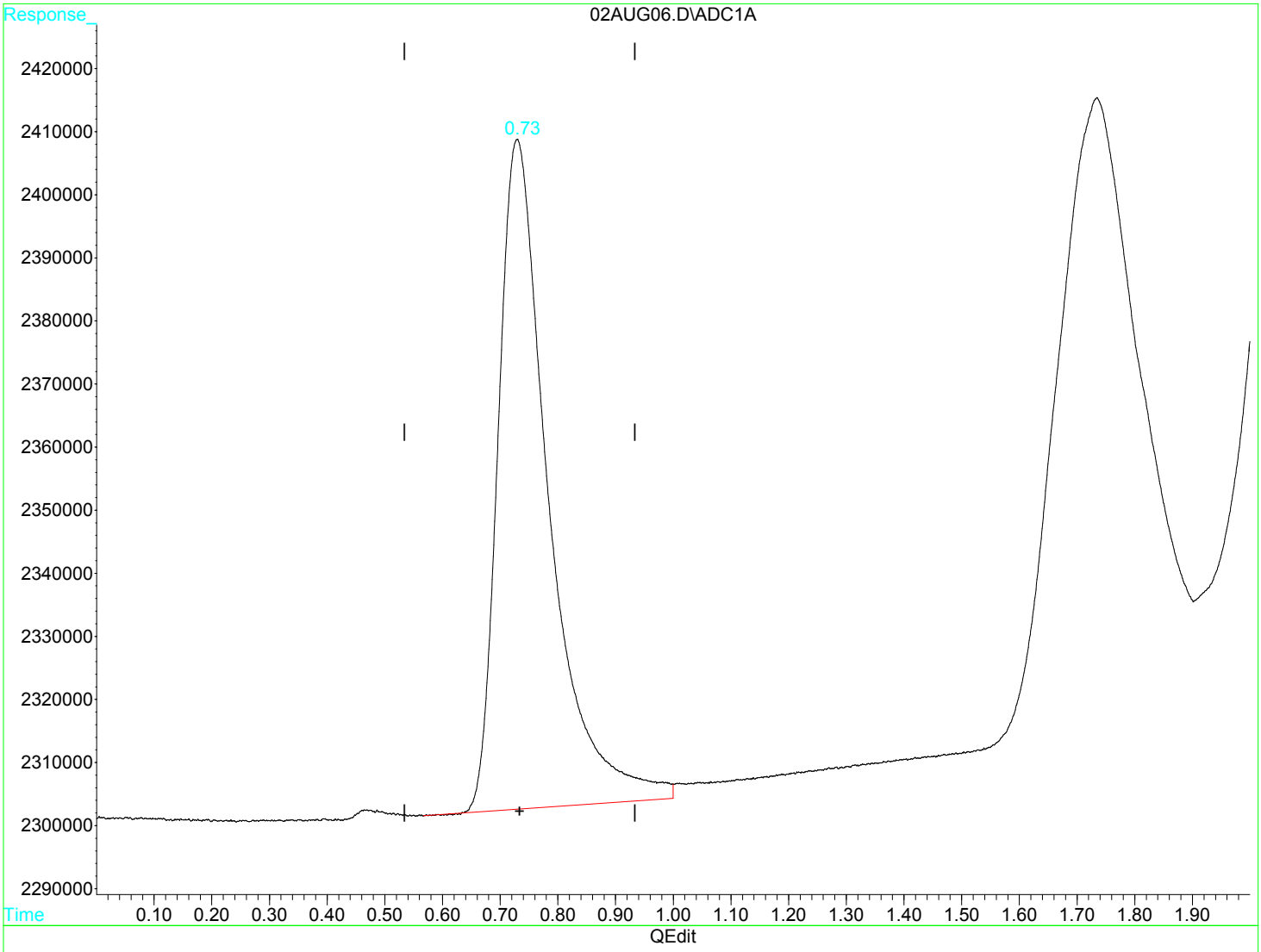
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.690ug/L

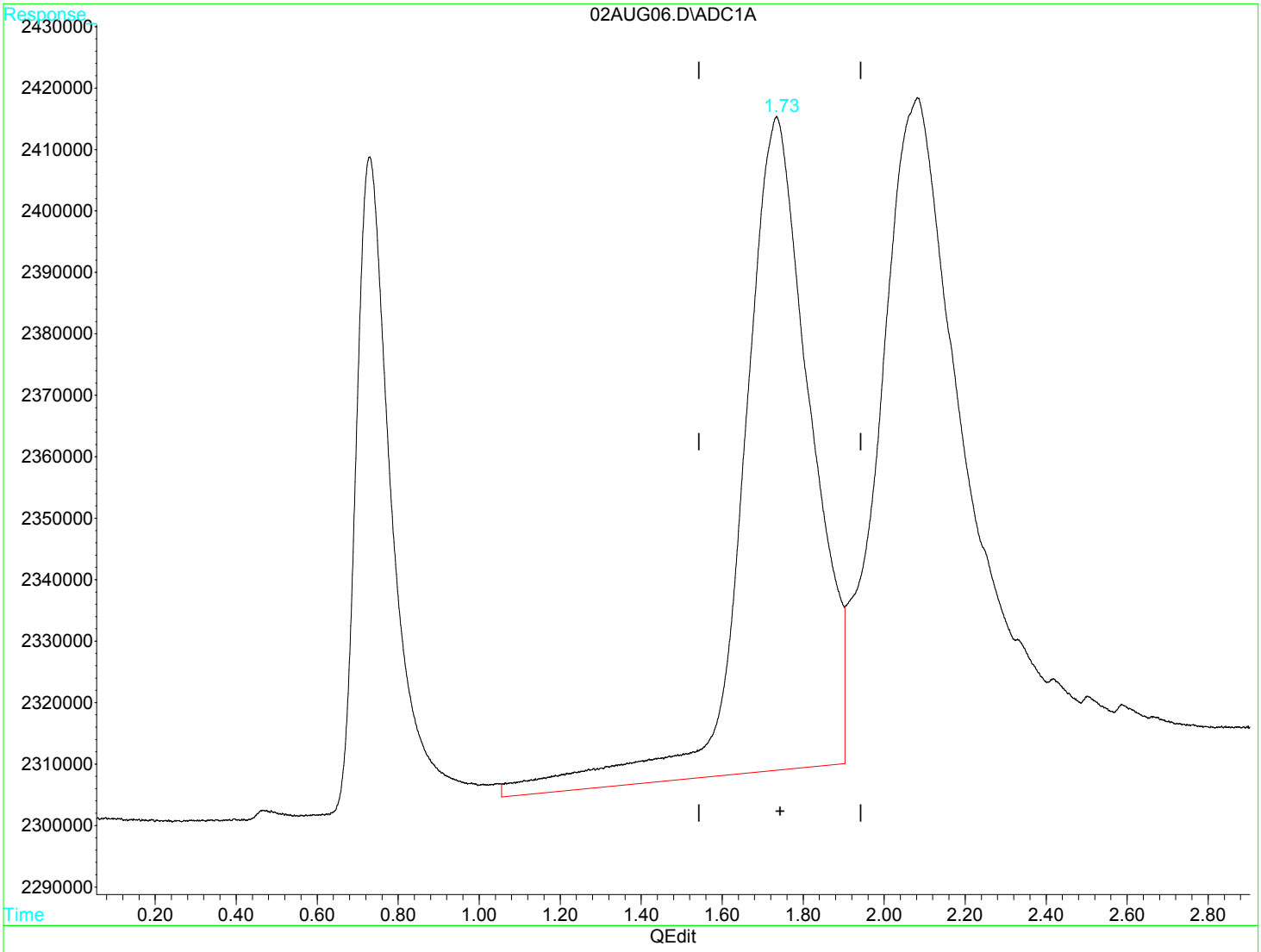
response 6470336

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 30.840ug/L

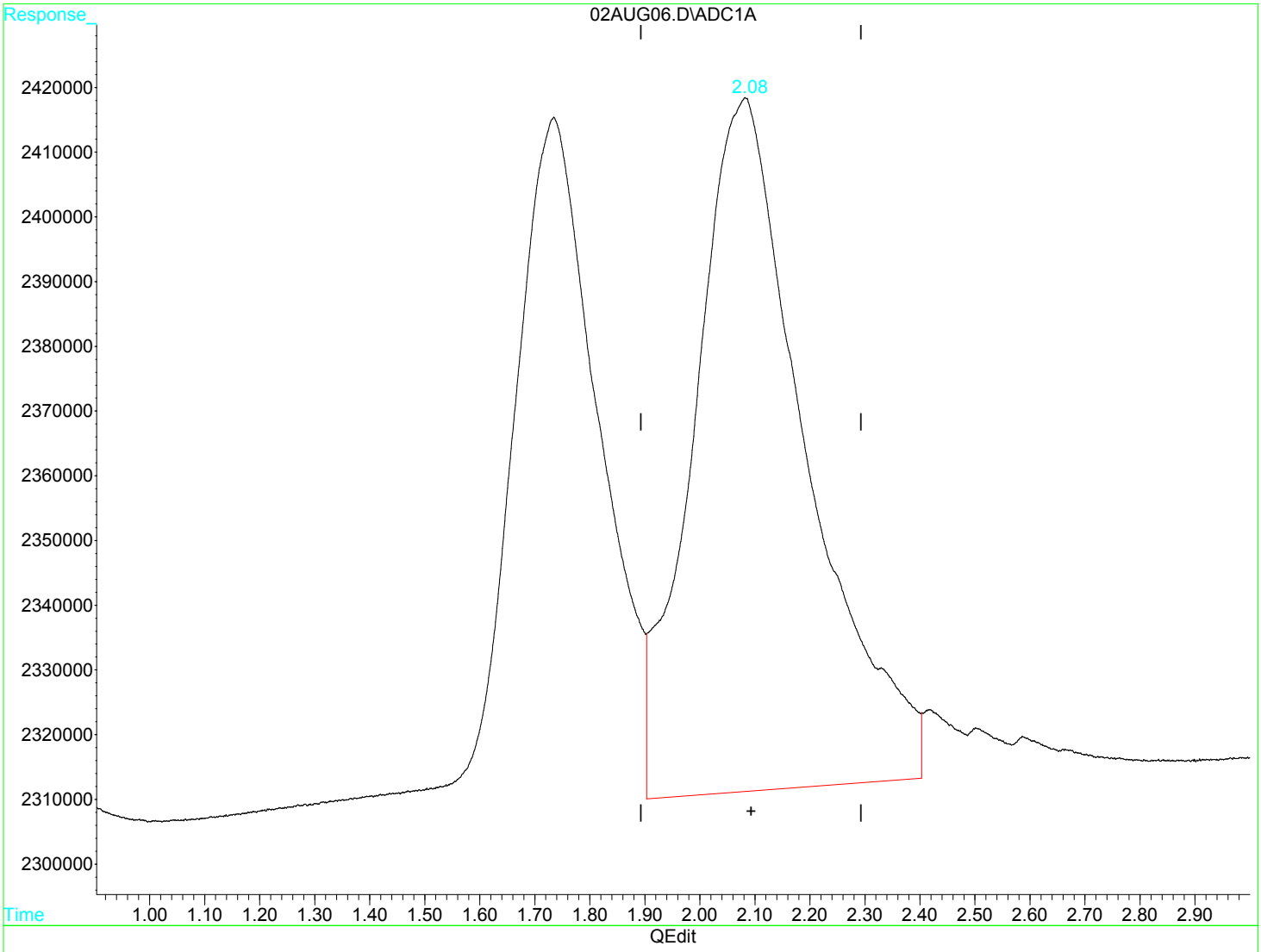
response 12412576

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 26.261ug/L

response 15255535

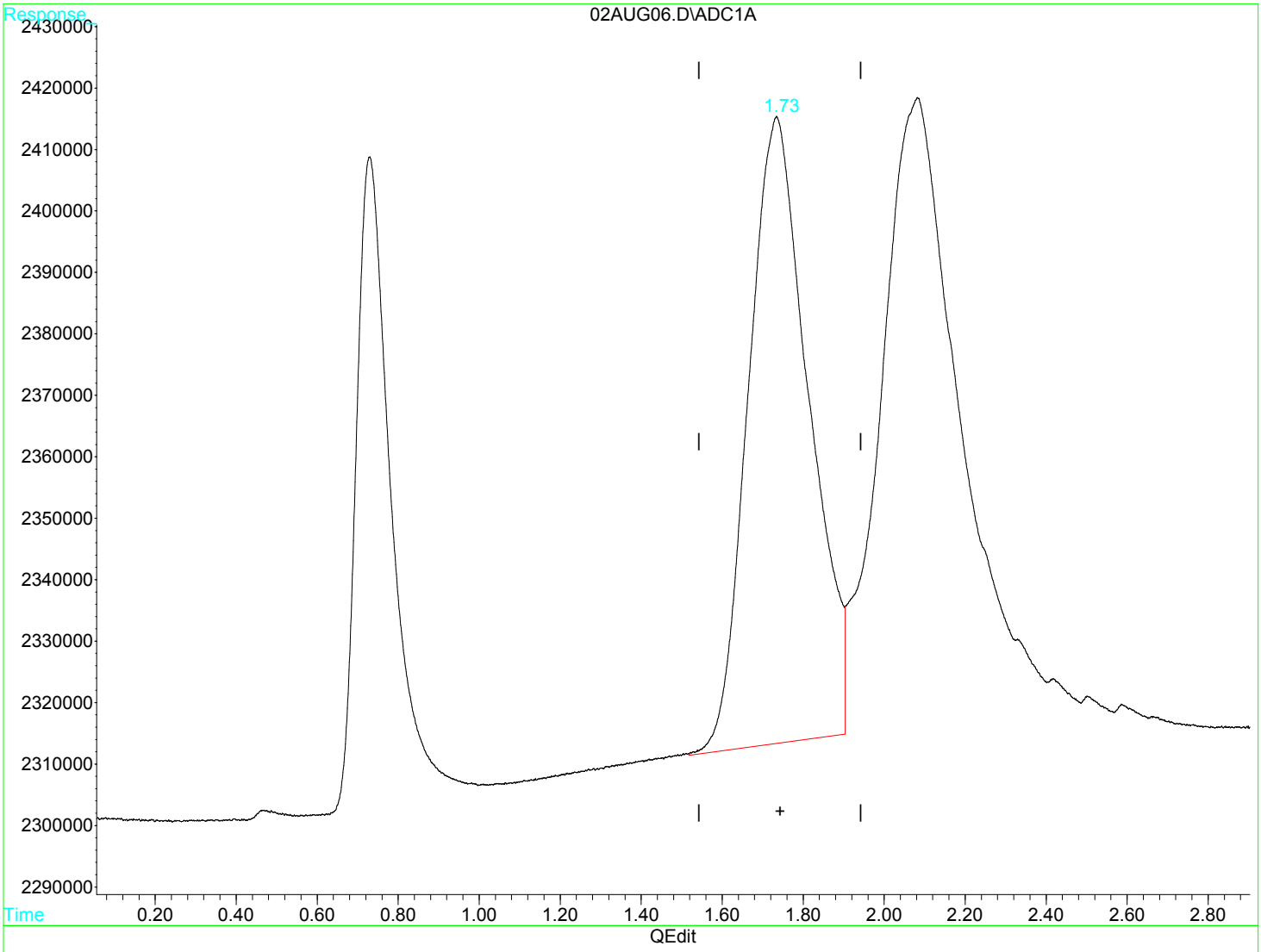
(+) = Expected Retention Time

02AUG06.D RSK175.M Wed Aug 02 16:16:53 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 26.315ug/L m

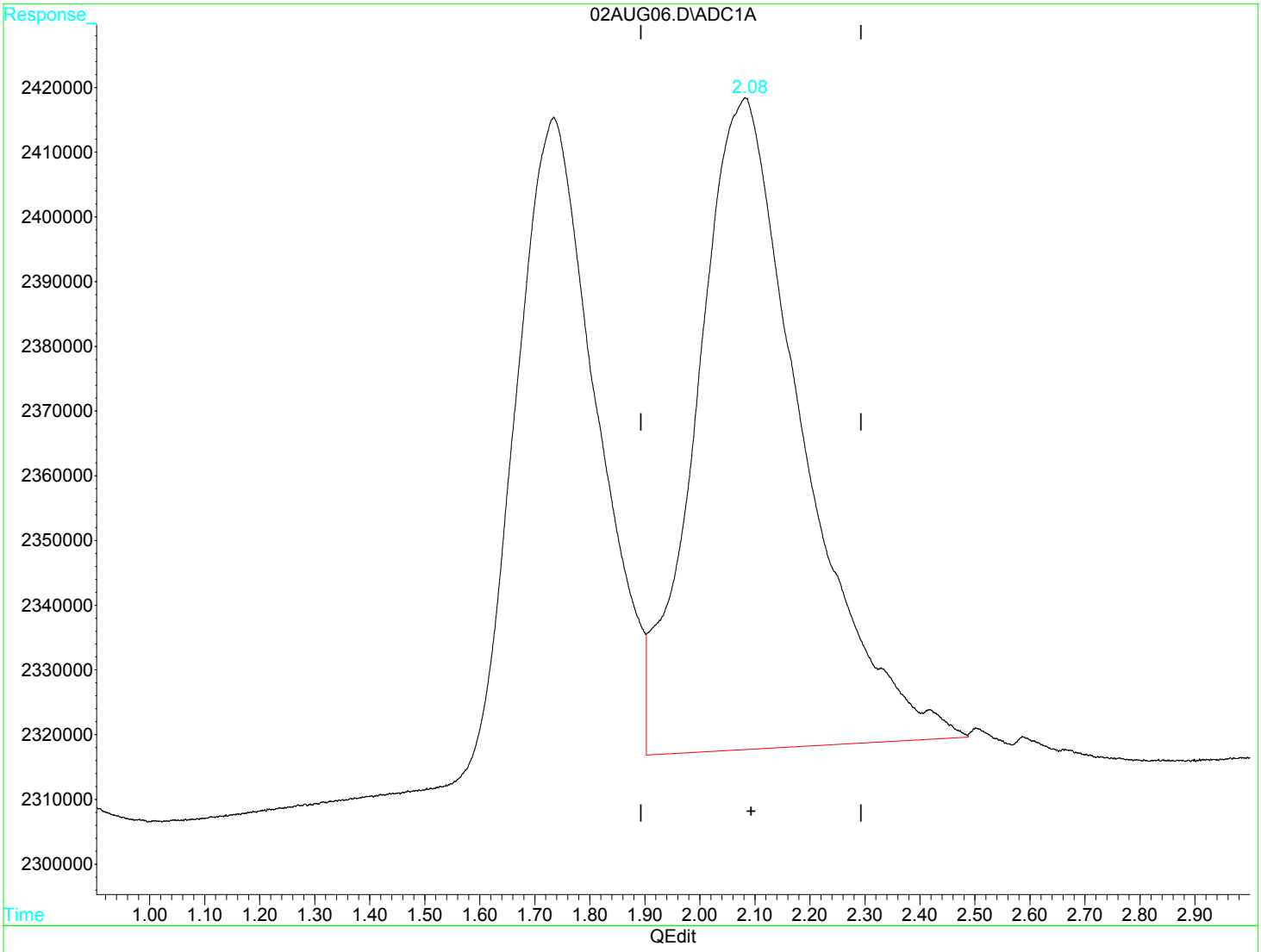
response 10591341

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG02\02AUG06.D Vial: 6
Acq On : 2 Aug 2017 1:02 pm Operator: JH2
Sample : B[G2607-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 2 16:15 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 23.208ug/L m

response 13481601

(+) = Expected Retention Time

02AUG06.D RSK175.M Wed Aug 02 16:17:08 2017 MSD1

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2607

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water

Prepared using: Volatiles - GC - RSK-175M

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-04 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-05 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-06 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-07 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-08 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-09 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-10 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
1720018-11 A	gmRSK175 Diss Methane, Etha	7/31/2017 11:31AM	JH2	1	1					
B[G2607-BLK1	QC	7/31/2017 11:31AM	JH2	1	1					
B[G2607-BS1	QC	7/31/2017 11:31AM	JH2	1	1	7B07033		1000		
B[G2607-BSD1	QC	7/31/2017 11:31AM	JH2	1	1	7B07033		1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7B07033	RSK-175M Spike	Helium	1/27/2017 by zzzJacob Hernand	1/27/2018

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1701454

Instrument: GC-V1
Calibration ID: 1702007
Sequence Date: 01/27/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1701454-CAL1	QC		1		7B07021		
1701454-CAL2	QC		2		7B07022		
1701454-CAL3	QC		3		7B07023		
1701454-CAL4	QC		4		7B07024		
1701454-ICV1	QC		5		7B07025		
1701454-ICB1	QC		6		7B07026		

ANALYSIS SEQUENCE

1713649

Instrument: GC-V1
Calibration ID: 1702007
Sequence Date: 08/02/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713649-ICV1	QC		1		7B07022		
1713649-ICB1	QC		2		7B07026		
1713649-CCV1	QC		3		7D17080		
1713649-CCB1	QC		4		6A07009		
B[G2607-BLK1	QC		5				
B[G2607-BS1	QC		6				
B[G2607-BSD1	QC		7				
B[H0092-BLK1	QC		8				
B[H0092-BS1	QC		9				
B[H0092-BSD1	QC		10				
1713649-CCV2	QC		11		7D17080		
1713649-CCB2	QC		12		6A07009		
1720018-04	gmRSK175 Diss Methane, Ethan	A	13				
1720018-05	gmRSK175 Diss Methane, Ethan	A	14				
1720018-06	gmRSK175 Diss Methane, Ethan	A	15				
1720018-07	gmRSK175 Diss Methane, Ethan	A	16				
1720018-08	gmRSK175 Diss Methane, Ethan	A	17				
1720018-10	gmRSK175 Diss Methane, Ethan	A	18				
1720018-11	gmRSK175 Diss Methane, Ethan	A	19				
1720018-09	gmRSK175 Diss Methane, Ethan	A	20				
1713649-CCV3	QC		21		7D17080		
1713649-CCB3	QC		22		6A07009		
1720029-05	gmRSK175 Diss Methane, Ethan	A	23				
1720029-11	gmRSK175 Diss Methane, Ethan	A	24				
1720029-12	gmRSK175 Diss Methane, Ethan	A	25				
1720619-01	gRSK175 Diss Methan, Ethane, l	A	26				
1720619-02	gRSK175 Diss Methan, Ethane, l	A	27				
1720619-03	gRSK175 Diss Methan, Ethane, l	A	28				
1720619-04	gRSK175 Diss Methan, Ethane, l	A	29				
1720619-05	gRSK175 Diss Methan, Ethane, l	A	30				
1720619-06	gRSK175 Diss Methan, Ethane, l	A	31				
1720619-07	gRSK175 Diss Methan, Ethane, l	A	32				
1713649-CCV4	QC		33		7D17080		
1713649-CCB4	QC		34		6A07009		

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **METALS-PPB**
Method: **EPA-6020**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-6020

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
SB02_170720	1720018-12

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-6020

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: PE-EL2

Analyte	DL	LOD	LOQ	Units
Arsenic	0.38	1	2	ug/L
Copper	0.32	1	2	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-6020

SB02_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-12
File ID: PE_EL2_170725-261
Sampled: 07/20/17 11:10
Prepared: 07/25/17 10:00
Analyzed: 07/26/17 02:32
Solids: 0.00
Preparation: EPA 3005A
Initial/Final: 10 ml / 10 ml
Batch: B[G2000
Sequence: 1713122
Calibration: UNASSIGNED
Instrument: PE-EL2

CAS NO.	Analyte	Concentration (ug/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.0	0.38	1.0	2.0	1	U	EPA-6020
7440-50-8	Copper	1.0	0.32	1.0	2.0	1	U	EPA-6020

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-6020

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2000
Batch Matrix: Water
Preparation: EPA 3005A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SB02_170720	1720018-12	PE_EL2_170725-261	07/25/17 10:00	
Blank	B[G2000-BLK1	PE_EL2_170725-235	07/25/17 10:00	
LCS	B[G2000-BS1	PE_EL2_170725-234	07/25/17 10:00	
Duplicate	B[G2000-DUP1	PE_EL2_170725-237	07/25/17 10:00	
Matrix Spike	B[G2000-MS1	PE_EL2_170725-239	07/25/17 10:00	
Matrix Spike Dup	B[G2000-MSD1	PE_EL2_170725-240	07/25/17 10:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-6020

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2000-BLK1	File ID:	PE_EL2_170725-235
Prepared:	07/25/17 10:00	Preparation:	EPA 3005A	Initial/Final:	10 ml / 10 ml
Analyzed:	07/26/17 01:02	Instrument:	PE-EL2		
Batch:	B[G2000	Sequence:	1713122	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
7440-38-2	Arsenic	1.0	0.38	1.0	2.0	U
7440-50-8	Copper	1.0	0.32	1.0	2.0	U

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Duplicate

DUPLICATES

EPA-6020

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G2000
Preparation: EPA 3005A
Source Sample Name: Duplicate

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G2000-DUP1
Lab Source ID: 1720029-03
Initial/Final: 10 ml / 10 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (ug/L)	C	DUPLICATE CONCENTRATION (ug/L)	C	RPD %	Q	METHOD
Arsenic	20	8.6360		8.9770		3.87		EPA-6020
Copper	20	1.0390		1.0160		2.24		EPA-6020

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-6020

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2000
Laboratory ID: B[G2000-MS1
Preparation: EPA 3005A
Initial/Final: 9.8 ml / 10 ml
Source Sample Number: 1720029-03

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Arsenic	102.04	8.6360	120.10	109	75 - 125
Copper	102.04	1.0390	97.704	94.7	75 - 125

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Arsenic	102.04	119.62	109	0.404	20	75 - 125
Copper	102.04	98.242	95.3	0.549	20	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-6020

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2000
Laboratory ID: B[G2000-BS1
Preparation: EPA 3005A
Initial/Final: 10 ml / 10 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Arsenic	100.00	96.913	96.9	75 - 125
Copper	100.00	101.23	101	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-6020

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713122
Instrument: PE-EL2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713122-ICV1	PE_EL2_170725-012	07/25/17 08:39
Initial Cal Blank	1713122-ICB1	PE_EL2_170725-014	07/25/17 08:48
MRL Check	1713122-CRL1	PE_EL2_170725-015	07/25/17 08:52
MRL Check	1713122-CRL2	PE_EL2_170725-017	07/25/17 09:06
Interference Check A	1713122-IFA1	PE_EL2_170725-019	07/25/17 09:19
Interference Check B	1713122-IFB1	PE_EL2_170725-020	07/25/17 09:25
Calibration Check	1713122-CCV1	PE_EL2_170725-025	07/25/17 09:44
Calibration Blank	1713122-CCB1	PE_EL2_170725-026	07/25/17 09:47
Calibration Check	1713122-CCVN	PE_EL2_170725-232	07/26/17 00:52
Calibration Blank	1713122-CCBN	PE_EL2_170725-233	07/26/17 00:55
LCS	B[G2000-BS1	PE_EL2_170725-234	07/26/17 00:59
Blank	B[G2000-BLK1	PE_EL2_170725-235	07/26/17 01:02
Duplicate	B[G2000-DUP1	PE_EL2_170725-237	07/26/17 01:09
Matrix Spike	B[G2000-MS1	PE_EL2_170725-239	07/26/17 01:16
Matrix Spike Dup	B[G2000-MSD1	PE_EL2_170725-240	07/26/17 01:20
Calibration Check	1713122-CCVO	PE_EL2_170725-241	07/26/17 01:23
Calibration Blank	1713122-CCBO	PE_EL2_170725-242	07/26/17 01:27
Calibration Check	1713122-CCVP	PE_EL2_170725-253	07/26/17 02:05
Calibration Blank	1713122-CCBP	PE_EL2_170725-254	07/26/17 02:08
SB02_170720	1720018-12	PE_EL2_170725-261	07/26/17 02:32
Calibration Check	1713122-CCVQ	PE_EL2_170725-264	07/26/17 02:43
Calibration Blank	1713122-CCBQ	PE_EL2_170725-265	07/26/17 02:46

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-6020

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: PE-EL2
Project: Alameda
Sequence: 1713122
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713122-ICB1	Arsenic	0.39900	0.38		2.0	ug/L	J	EPA-6020
	Copper	0.019000	0.32		2.0	ug/L	U	EPA-6020
1713122-CCB1	Arsenic	-0.026000	0.38		2.0	ug/L	U	EPA-6020
	Copper	0.038000	0.32		2.0	ug/L	U	EPA-6020
1713122-CCBN	Arsenic	0.55800	0.38		2.0	ug/L	J	EPA-6020
	Copper	0.0070000	0.32		2.0	ug/L	U	EPA-6020
1713122-CCBO	Arsenic	-0.18800	0.38		2.0	ug/L	U	EPA-6020
	Copper	0.13000	0.32		2.0	ug/L	U	EPA-6020
1713122-CCBP	Arsenic	-0.10100	0.38		2.0	ug/L	U	EPA-6020
	Copper	0.13600	0.32		2.0	ug/L	U	EPA-6020
1713122-CCBQ	Arsenic	0.61900	0.38		2.0	ug/L	J	EPA-6020
	Copper	0.12900	0.32		2.0	ug/L	U	EPA-6020

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-6020

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: PE-EL2
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713122

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713122-ICV1	Arsenic	125.00	131.44	105	ug/L	EPA-6020
	Copper	125.00	131.54	105	ug/L	EPA-6020
1713122-CCV1	Arsenic	100.00	100.24	100	ug/L	EPA-6020
	Copper	100.00	102.06	102	ug/L	EPA-6020
1713122-CCVN	Arsenic	100.00	97.681	97.7	ug/L	EPA-6020
	Copper	100.00	99.984	100	ug/L	EPA-6020
1713122-CCVO	Arsenic	100.00	99.724	99.7	ug/L	EPA-6020
	Copper	100.00	101.39	101	ug/L	EPA-6020
1713122-CCVP	Arsenic	100.00	99.853	99.9	ug/L	EPA-6020
	Copper	100.00	102.33	102	ug/L	EPA-6020
1713122-CCVQ	Arsenic	100.00	98.997	99.0	ug/L	EPA-6020
	Copper	100.00	100.90	101	ug/L	EPA-6020

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ICP INTERFERENCE CHECK SAMPLE

EPA-6020

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMC
Instrument ID: PE-EL2
Sequence: 1713122

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED

Lab Sample ID	Analyte	True	Found	%R	Units
1713122-IFA1	Arsenic		-0.041000		ug/L
	Copper		3.4470	*	ug/L
1713122-IFB1	Arsenic	20.000	18.22	91.1	ug/L
	Copper	20.000	21.31	107	ug/L

* Values outside of QC limits

Raw Data From Instrument PE-EL2

Raw Data - Samples

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: 1720018-12

Sample Date/Time: Wednesday, July 26, 2017 02:32:55
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 317
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	0.000	**-0.030**	0.00	0.0	ug/L
	B	11	764.705	**5.298**	1.64	31.0	ug/L
	Al	27	800.708	**-0.553**	0.05	8.2	ug/L
>	Sc	45	148785.326				ug/L
	V	51	190.390	**-0.470**	0.07	15.3	ug/L
	Cr	52	1610.835	**-0.239**	0.03	11.0	ug/L
	Cr	53	5222.609	**-53.789**	1.06	2.0	ug/L
	Mn	55	279.339	**-0.019**	0.03	180.8	ug/L
	Co	59	20.333	**0.002**	0.00	192.0	ug/L
	Ni	60	75.667	**0.204**	0.07	34.7	ug/L
	Cu	63	88.667	**0.115**	0.01	11.4	ug/L
	Cu	65	55.000	**0.161**	0.03	19.1	ug/L
	Zn	66	3644.530	**22.941**	0.63	2.7	ug/L
	Zn	68	2578.766	**23.099**	0.23	1.0	ug/L
>	Ge	72	131827.213				ug/L
	As	75	0.546	**-0.100**	0.47	466.5	ug/L
	Se	77	308.840	**-33.906**	1.02	3.0	ug/L
	Se	82	9.091	**-0.268**	0.33	123.7	ug/L
	Sr	88	20603.906	**0.122**	0.08	67.7	ug/L
	Mo	98	44.557	**0.025**	0.02	71.9	ug/L
>	Rh	103	162305.790				ug/L
	Ag	107	6.000	**-0.005**	0.00	48.6	ug/L
	Cd	111	2.667	**0.004**	0.01	368.7	ug/L
	Cd	114	6.747	**-0.001**	0.01	547.4	ug/L
>	In	115	234470.708				ug/L
	Sn	120	63.300	**-0.078**	0.01	15.4	ug/L
	Sb	121	71.334	**-0.404**	0.01	3.2	ug/L
	Ba	137	85.983	**0.098**	0.01	12.7	ug/L
	Ba	138	505.999	**0.086**	0.00	4.0	ug/L
>	Tb	159	337649.446				ug/L
	Tl	205	12.333	**-0.013**	0.00	4.6	ug/L
	Pb	208	24.667	**0.001**	0.00	303.3	ug/L
	Hg	200	25.265	**0.022**	0.04	171.0	ug/L
	Hg	201	10.000	**0.007**	0.01	211.0	ug/L
>	Bi	209	273964.044				ug/L
	U	238	120.334	**0.008**	0.01	90.1	ug/L
	C	13	540.019				ug/L
	W	184	10.666				ug/L
	Pd	106	1.609				ug/L
	Kr	83	8.667				ug/L
	Na	23	335461.831	**413.970**	116.78	28.2	ug/L
	Mg	24	27111.323	**52.193**	17.85	34.2	ug/L

K	39	66540.798	**9.273**	5.72	61.7	ug/L
Ca	44	1396.794	**29.885**	4.78	16.0	ug/L
Ti	47	16.667				ug/L
Sc-1	45	148785.326				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		88.352
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		99.398
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		98.870
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		94.425
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		99.397
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		97.251
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Calibration Standards

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Blank

Sample Date/Time: Tuesday, July 25, 2017 08:15:28
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	0.333				ug/L
	B	11	501.350				ug/L
	Al	27	2474.398				ug/L
>	Sc	45	243660.487				ug/L
	V	51	1950.504				ug/L
	Cr	52	3292.538				ug/L
	Cr	53	19367.189				ug/L
	Mn	55	204.670				ug/L
	Co	59	13.000				ug/L
	Ni	60	32.000				ug/L
	Cu	63	37.000				ug/L
	Cu	65	15.667				ug/L
	Zn	66	102.334				ug/L
	Zn	68	111.334				ug/L
>	Ge	72	166267.093				ug/L
	As	75	20.913				ug/L
	Se	77	1190.092				ug/L
	Se	82	24.910				ug/L
	Sr	88	26886.579				ug/L
	Mo	98	19.087				ug/L
>	Rh	103	216824.566				ug/L
	Ag	107	6.667				ug/L
	Cd	111	0.255				ug/L
	Cd	114	7.858				ug/L
>	In	115	334174.620				ug/L
	Sn	120	197.986				ug/L
	Sb	121	344.674				ug/L
	Ba	137	29.308				ug/L
	Ba	138	164.643				ug/L
>	Tb	159	432560.045				ug/L
	Tl	205	88.334				ug/L
	Pb	208	29.667				ug/L
	Hg	200	6.620				ug/L
	Hg	201	1.333				ug/L
>	Bi	209	376946.225				ug/L
	U	238	15.667				ug/L
	C	13	413.346				ug/L
	W	184	7.333				ug/L
	Pd	106	3.138				ug/L
	Kr	83	10.333				ug/L
	Na	23	3747.579				ug/L
	Mg	24	313.340				ug/L

K	39	54626.902		ug/L
Ca	44	786.708		ug/L
Ti	47	13.333		ug/L
Sc-1	45	243660.487		ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000000	0.000	0.000000	Linear Thru Zero
B	11.009	0.000000	0.000	0.000000	Linear Thru Zero
Al	26.982	0.000000	0.000	0.000000	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.000000	0.000	0.000000	Linear Thru Zero
Cr	51.941	0.000000	0.000	0.000000	Linear Thru Zero
Cr	52.941	0.000000	0.000	0.000000	Linear Thru Zero
Mn	54.938	0.000000	0.000	0.000000	Linear Thru Zero
Co	58.933	0.000000	0.000	0.000000	Linear Thru Zero
Ni	59.933	0.000000	0.000	0.000000	Linear Thru Zero
Cu	62.930	0.000000	0.000	0.000000	Linear Thru Zero
Cu	64.928	0.000000	0.000	0.000000	Linear Thru Zero
Zn	65.926	0.000000	0.000	0.000000	Linear Thru Zero
Zn	67.925	0.000000	0.000	0.000000	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.000000	0.000	0.000000	Linear Thru Zero
Se	76.920	0.000000	0.000	0.000000	Linear Thru Zero
Se	81.917	0.000000	0.000	0.000000	Linear Thru Zero
Sr	87.906	0.000000	0.000	0.000000	Linear Thru Zero
Mo	97.906	0.000000	0.000	0.000000	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.000000	0.000	0.000000	Linear Thru Zero
Cd	110.904	0.000000	0.000	0.000000	Linear Thru Zero
Cd	113.904	0.000000	0.000	0.000000	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.000000	0.000	0.000000	Linear Thru Zero
Sb	120.904	0.000000	0.000	0.000000	Linear Thru Zero
Ba	136.905	0.000000	0.000	0.000000	Linear Thru Zero
Ba	137.905	0.000000	0.000	0.000000	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.000000	0.000	0.000000	Linear Thru Zero
Pb	207.977	0.000000	0.000	0.000000	Linear Thru Zero
Hg	199.968	0.000000	0.000	0.000000	Linear Thru Zero
Hg	200.970	0.000000	0.000	0.000000	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.000000	0.000	0.000000	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	0.000000	0.000	0.000000	Linear Thru Zero
Mg	23.985	0.000000	0.000	0.000000	Linear Thru Zero
K	38.964	0.000000	0.000	0.000000	Linear Thru Zero
Ca	43.956	0.000000	0.000	0.000000	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 1

Sample Date/Time: Tuesday, July 25, 2017 08:18:56
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 2
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	51.000	**1.000**	0.20	19.8	ug/L
	B	11	2858.531	**20.000**	0.36	1.8	ug/L
	Al	27	29479.056	**20.000**	0.11	0.6	ug/L
>	Sc	45	248154.383				ug/L
	V	51	8045.170	**3.000**	0.16	5.3	ug/L
	Cr	52	8460.484	**3.000**	0.09	3.0	ug/L
	Cr	53	21683.687	**3.000**	0.64	21.2	ug/L
	Mn	55	3131.304	**1.000**	0.01	1.4	ug/L
	Co	59	1726.861	**1.000**	0.01	1.0	ug/L
	Ni	60	728.368	**1.000**	0.04	4.1	ug/L
	Cu	63	1522.151	**2.000**	0.10	5.0	ug/L
	Cu	65	726.701	**2.000**	0.04	1.8	ug/L
	Zn	66	1160.421	**5.000**	0.17	3.4	ug/L
	Zn	68	869.716	**5.000**	0.17	3.5	ug/L
>	Ge	72	163545.073				ug/L
	As	75	446.151	**2.000**	0.15	7.4	ug/L
	Se	77	1317.446	**2.000**	0.69	34.3	ug/L
	Se	82	84.246	**2.000**	0.15	7.5	ug/L
	Sr	88	28027.303	**0.200**	0.06	29.2	ug/L
	Mo	98	981.478	**1.000**	0.03	3.1	ug/L
>	Rh	103	213659.976				ug/L
	Ag	107	2139.631	**1.000**	0.01	0.8	ug/L
	Cd	111	485.489	**1.000**	0.07	7.0	ug/L
	Cd	114	1226.730	**1.000**	0.08	8.2	ug/L
>	In	115	336244.691				ug/L
	Sn	120	2557.075	**1.000**	0.04	4.2	ug/L
	Sb	121	3367.404	**2.000**	0.04	1.8	ug/L
	Ba	137	998.028	**1.000**	0.03	2.6	ug/L
	Ba	138	6250.501	**1.000**	0.00	0.3	ug/L
>	Tb	159	430285.903				ug/L
	Tl	205	6736.282	**1.000**	0.02	2.0	ug/L
	Pb	208	4997.957	**1.000**	0.03	2.6	ug/L
	Hg	200	77.295	**0.200**	0.03	13.7	ug/L
	Hg	201	49.333	**0.200**	0.04	19.0	ug/L
>	Bi	209	372865.213				ug/L
	U	238	13261.422	**1.000**	0.01	1.4	ug/L
	C	13	500.017				ug/L
	W	184	5.999				ug/L
	Pd	106	2.408				ug/L
	Kr	83	10.167				ug/L
	Na	23	144519.526	**100.000**	3.86	3.9	ug/L
	Mg	24	90931.488	**100.000**	3.87	3.9	ug/L

K	39	178220.937	**100.000**	0.27	0.3	ug/L
Ca	44	5191.762	**100.000**	11.08	11.1	ug/L
Ti	47	33.333				ug/L
Sc-1	45	248154.383				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000204	0.000	1.000000	Linear Thru Zero
B	11.009	0.000473	0.000	1.000000	Linear Thru Zero
Al	26.982	0.005432	0.000	1.000000	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008141	0.000	1.000000	Linear Thru Zero
Cr	51.941	0.006862	0.000	1.000000	Linear Thru Zero
Cr	52.941	0.002637	0.000	1.000000	Linear Thru Zero
Mn	54.938	0.011778	0.000	1.000000	Linear Thru Zero
Co	58.933	0.006905	0.000	1.000000	Linear Thru Zero
Ni	59.933	0.002804	0.000	1.000000	Linear Thru Zero
Cu	62.930	0.004542	0.000	1.000000	Linear Thru Zero
Cu	64.928	0.002175	0.000	1.000000	Linear Thru Zero
Zn	65.926	0.001297	0.000	1.000000	Linear Thru Zero
Zn	67.925	0.000930	0.000	1.000000	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001299	0.000	1.000000	Linear Thru Zero
Se	76.920	0.000452	0.000	1.000000	Linear Thru Zero
Se	81.917	0.000183	0.000	1.000000	Linear Thru Zero
Sr	87.906	0.048585	0.000	1.000000	Linear Thru Zero
Mo	97.906	0.004507	0.000	1.000000	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009984	0.000	1.000000	Linear Thru Zero
Cd	110.904	0.001442	0.000	1.000000	Linear Thru Zero
Cd	113.904	0.003627	0.000	1.000000	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007013	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.004492	0.000	1.000000	Linear Thru Zero
Ba	136.905	0.002252	0.000	1.000000	Linear Thru Zero
Ba	137.905	0.014146	0.000	1.000000	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.015451	0.000	1.000000	Linear Thru Zero
Pb	207.977	0.011548	0.000	1.000000	Linear Thru Zero
Hg	199.968	0.000947	0.000	1.000000	Linear Thru Zero
Hg	200.970	0.000645	0.000	1.000000	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035530	0.000	1.000000	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1407.719460	0.000	1.000000	Linear Thru Zero
Mg	23.985	906.181480	0.000	1.000000	Linear Thru Zero
K	38.964	1235.940348	0.000	1.000000	Linear Thru Zero
Ca	43.956	44.050542	0.000	1.000000	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: Standard 2

Sample Date/Time: Tuesday, July 25, 2017 08:22:23
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 3
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	507.017	**9.998**	1.00	10.0	ug/L
	B	11	12249.081	**99.924**	1.25	1.3	ug/L
	Al	27	36718.833	**24.947**	0.64	2.6	ug/L
>	Sc	45	252830.616				ug/L
	V	51	22191.849	**9.984**	0.49	4.9	ug/L
	Cr	52	20722.376	**9.998**	0.20	2.0	ug/L
	Cr	53	22581.597	**8.783**	1.20	13.6	ug/L
	Mn	55	70142.592	**24.997**	0.71	2.8	ug/L
	Co	59	17036.519	**9.997**	0.28	2.8	ug/L
	Ni	60	8731.621	**24.959**	0.43	1.7	ug/L
	Cu	63	17972.976	**24.991**	0.21	0.8	ug/L
	Cu	65	8317.496	**24.985**	0.17	0.7	ug/L
	Zn	66	5137.715	**24.929**	0.14	0.5	ug/L
	Zn	68	3652.534	**24.908**	0.60	2.4	ug/L
>	Ge	72	166868.189				ug/L
	As	75	4883.054	**24.982**	0.90	3.6	ug/L
	Se	77	1749.866	**24.626**	0.57	2.3	ug/L
	Se	82	714.301	**24.983**	0.85	3.4	ug/L
	Sr	88	34898.676	**1.979**	0.11	5.4	ug/L
	Mo	98	8968.833	**9.993**	0.20	2.0	ug/L
>	Rh	103	213184.211				ug/L
	Ag	107	20850.223	**9.998**	0.04	0.4	ug/L
	Cd	111	4970.804	**10.002**	0.28	2.8	ug/L
	Cd	114	12010.800	**9.998**	0.33	3.3	ug/L
>	In	115	337661.338				ug/L
	Sn	120	22892.682	**9.996**	0.26	2.6	ug/L
	Sb	121	14890.398	**9.984**	0.19	1.9	ug/L
	Ba	137	9317.207	**9.995**	0.05	0.5	ug/L
	Ba	138	58441.769	**9.995**	0.16	1.6	ug/L
>	Tb	159	433496.221				ug/L
	Tl	205	64105.062	**9.995**	0.12	1.2	ug/L
	Pb	208	119512.877	**24.998**	0.41	1.7	ug/L
	Hg	200	580.616	**1.996**	0.13	6.4	ug/L
	Hg	201	330.674	**1.991**	0.19	9.6	ug/L
>	Bi	209	369432.859				ug/L
	U	238	126054.245	**9.996**	0.02	0.2	ug/L
	C	13	473.349				ug/L
	W	184	11.333				ug/L
	Pd	106	-81.294				ug/L
	Kr	83	7.667				ug/L
	Na	23	1330408.639	**999.395**	35.91	3.6	ug/L
	Mg	24	857878.599	**999.439**	13.25	1.3	ug/L

K	39	1360439.068	**1000.530**	8.94	0.9	ug/L
Ca	44	46443.126	**1000.348**	11.66	1.2	ug/L
Ti	47	40.000				ug/L
Sc-1	45	252830.616				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000200	0.000	0.999998	Linear Thru Zero
B	11.009	0.000464	0.000	0.999993	Linear Thru Zero
Al	26.982	0.005414	0.000	0.999996	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007994	0.000	0.999985	Linear Thru Zero
Cr	51.941	0.006848	0.000	1.000000	Linear Thru Zero
Cr	52.941	0.001121	0.000	0.926670	Linear Thru Zero
Mn	54.938	0.011065	0.000	0.999997	Linear Thru Zero
Co	58.933	0.006736	0.000	0.999997	Linear Thru Zero
Ni	59.933	0.001379	0.000	0.999145	Linear Thru Zero
Cu	62.930	0.004301	0.000	0.999990	Linear Thru Zero
Cu	64.928	0.001991	0.000	0.999973	Linear Thru Zero
Zn	65.926	0.001210	0.000	0.999899	Linear Thru Zero
Zn	67.925	0.000852	0.000	0.999831	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001167	0.000	0.999959	Linear Thru Zero
Se	76.920	0.000135	0.000	0.982918	Linear Thru Zero
Se	81.917	0.000165	0.000	0.999966	Linear Thru Zero
Sr	87.906	0.023962	0.000	0.994762	Linear Thru Zero
Mo	97.906	0.004201	0.000	0.999973	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009780	0.000	0.999998	Linear Thru Zero
Cd	110.904	0.001472	0.000	0.999998	Linear Thru Zero
Cd	113.904	0.003556	0.000	0.999998	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006723	0.000	0.999991	Linear Thru Zero
Sb	120.904	0.004315	0.000	0.999966	Linear Thru Zero
Ba	136.905	0.002144	0.000	0.999987	Linear Thru Zero
Ba	137.905	0.013451	0.000	0.999987	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014774	0.000	0.999989	Linear Thru Zero
Pb	207.977	0.011025	0.000	0.999998	Linear Thru Zero
Hg	199.968	0.000779	0.000	0.999768	Linear Thru Zero
Hg	200.970	0.000448	0.000	0.999026	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.034131	0.000	0.999992	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1327.463618	0.000	0.999982	Linear Thru Zero
Mg	23.985	858.046608	0.000	0.999984	Linear Thru Zero
K	38.964	1305.120365	0.000	0.999986	Linear Thru Zero
Ca	43.956	45.640519	0.000	0.999994	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 3

Sample Date/Time: Tuesday, July 25, 2017 08:25:51
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 4
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1010.066	**19.940**	0.71	3.6	ug/L
	B	11	24799.254	**200.891**	2.14	1.1	ug/L
	Al	27	70253.405	**49.662**	0.09	0.2	ug/L
>	Sc	45	255788.481				ug/L
	V	51	41071.363	**19.797**	0.24	1.2	ug/L
	Cr	52	37541.578	**19.882**	0.21	1.1	ug/L
	Cr	53	25853.548	**19.840**	2.14	10.8	ug/L
	Mn	55	140247.259	**49.894**	0.40	0.8	ug/L
	Co	59	34455.686	**19.998**	0.32	1.6	ug/L
	Ni	60	17407.346	**49.852**	0.48	1.0	ug/L
	Cu	63	35794.103	**50.054**	0.21	0.4	ug/L
	Cu	65	16572.169	**50.057**	0.69	1.4	ug/L
	Zn	66	10200.096	**50.089**	0.63	1.3	ug/L
	Zn	68	7063.242	**49.865**	0.52	1.0	ug/L
>	Ge	72	165378.298				ug/L
	As	75	9656.615	**49.986**	1.24	2.5	ug/L
	Se	77	2291.175	**49.915**	4.05	8.1	ug/L
	Se	82	1388.043	**49.967**	0.24	0.5	ug/L
	Sr	88	42722.317	**4.007**	0.13	3.2	ug/L
	Mo	98	18005.764	**20.023**	0.25	1.2	ug/L
>	Rh	103	212888.526				ug/L
	Ag	107	42029.847	**20.037**	0.11	0.5	ug/L
	Cd	111	9723.917	**19.987**	0.20	1.0	ug/L
	Cd	114	23698.444	**20.022**	0.13	0.7	ug/L
>	In	115	331266.348				ug/L
	Sn	120	45446.486	**20.063**	0.17	0.8	ug/L
	Sb	121	29446.947	**20.074**	0.51	2.5	ug/L
	Ba	137	18633.080	**20.011**	0.10	0.5	ug/L
	Ba	138	116484.563	**19.997**	0.11	0.5	ug/L
>	Tb	159	432743.327				ug/L
	Tl	205	128427.216	**20.015**	0.09	0.4	ug/L
	Pb	208	236926.556	**49.930**	0.76	1.5	ug/L
	Hg	200	1129.369	**3.989**	0.19	4.7	ug/L
	Hg	201	616.692	**3.950**	0.32	8.1	ug/L
>	Bi	209	365254.650				ug/L
	U	238	255446.905	**20.097**	0.20	1.0	ug/L
	C	13	520.018				ug/L
	W	184	7.333				ug/L
	Pd	106	-112.229				ug/L
	Kr	83	9.667				ug/L
	Na	23	2643616.329	**1997.703**	36.46	1.8	ug/L
	Mg	24	1781852.634	**2014.922**	41.73	2.1	ug/L

K	39	2556422.808	**1982.674**	20.89	1.1	ug/L
Ca	44	94513.879	**2010.578**	36.13	1.8	ug/L
Ti	47	43.333				ug/L
Sc-1	45	255788.481				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000198	0.000	0.999982	Linear Thru Zero
B	11.009	0.000472	0.000	0.999960	Linear Thru Zero
Al	26.982	0.005326	0.000	0.999943	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007707	0.000	0.999807	Linear Thru Zero
Cr	51.941	0.006702	0.000	0.999936	Linear Thru Zero
Cr	52.941	0.001089	0.000	0.981730	Linear Thru Zero
Mn	54.938	0.010972	0.000	0.999990	Linear Thru Zero
Co	58.933	0.006733	0.000	0.999999	Linear Thru Zero
Ni	59.933	0.001362	0.000	0.999807	Linear Thru Zero
Cu	62.930	0.004320	0.000	0.999996	Linear Thru Zero
Cu	64.928	0.002000	0.000	0.999992	Linear Thru Zero
Zn	65.926	0.001219	0.000	0.999973	Linear Thru Zero
Zn	67.925	0.000843	0.000	0.999950	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001165	0.000	0.999991	Linear Thru Zero
Se	76.920	0.000134	0.000	0.996441	Linear Thru Zero
Se	81.917	0.000165	0.000	0.999992	Linear Thru Zero
Sr	87.906	0.024124	0.000	0.998946	Linear Thru Zero
Mo	97.906	0.004220	0.000	0.999992	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009852	0.000	0.999993	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999999	Linear Thru Zero
Cd	113.904	0.003572	0.000	0.999997	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006808	0.000	0.999978	Linear Thru Zero
Sb	120.904	0.004377	0.000	0.999967	Linear Thru Zero
Ba	136.905	0.002148	0.000	0.999997	Linear Thru Zero
Ba	137.905	0.013442	0.000	0.999997	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014817	0.000	0.999997	Linear Thru Zero
Pb	207.977	0.010964	0.000	0.999996	Linear Thru Zero
Hg	199.968	0.000771	0.000	0.999937	Linear Thru Zero
Hg	200.970	0.000426	0.000	0.999469	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.034800	0.000	0.999952	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1321.452246	0.000	0.999994	Linear Thru Zero
Mg	23.985	884.172787	0.000	0.999887	Linear Thru Zero
K	38.964	1261.829018	0.000	0.999848	Linear Thru Zero
Ca	43.956	46.617019	0.000	0.999943	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 4

Sample Date/Time: Tuesday, July 25, 2017 08:29:18
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 5
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1944.579	**39.834**	0.73	1.8	ug/L
	B	11	47562.689	**399.682**	3.14	0.8	ug/L
	Al	27	135513.841	**99.986**	0.89	0.9	ug/L
>	Sc	45	249815.559				ug/L
	V	51	79481.647	**40.058**	0.57	1.4	ug/L
	Cr	52	69620.708	**39.896**	0.37	0.9	ug/L
	Cr	53	29052.289	**38.304**	0.66	1.7	ug/L
	Mn	55	283818.937	**100.812**	2.15	2.1	ug/L
	Co	59	68872.010	**40.221**	0.55	1.4	ug/L
	Ni	60	34359.944	**100.203**	1.39	1.4	ug/L
	Cu	63	70606.953	**99.929**	0.42	0.4	ug/L
	Cu	65	32364.614	**99.690**	1.13	1.1	ug/L
	Zn	66	19762.691	**99.624**	0.58	0.6	ug/L
	Zn	68	13974.016	**100.087**	0.58	0.6	ug/L
>	Ge	72	163864.737				ug/L
	As	75	19142.468	**100.036**	1.09	1.1	ug/L
	Se	77	3187.994	**97.844**	2.44	2.5	ug/L
	Se	82	2715.556	**99.890**	1.73	1.7	ug/L
	Sr	88	58415.371	**8.017**	0.07	0.9	ug/L
	Mo	98	36965.364	**40.374**	0.55	1.4	ug/L
>	Rh	103	210407.291				ug/L
	Ag	107	82283.122	**39.927**	0.58	1.5	ug/L
	Cd	111	19308.662	**39.872**	0.60	1.5	ug/L
	Cd	114	47715.853	**40.022**	0.32	0.8	ug/L
>	In	115	333163.794				ug/L
	Sn	120	92370.604	**40.151**	0.41	1.0	ug/L
	Sb	121	59773.370	**40.179**	0.32	0.8	ug/L
	Ba	137	37273.225	**39.997**	0.38	0.9	ug/L
	Ba	138	233813.658	**40.023**	0.29	0.7	ug/L
>	Tb	159	433517.202				ug/L
	Tl	205	261014.968	**40.146**	0.19	0.5	ug/L
	Pb	208	479401.460	**100.202**	0.82	0.8	ug/L
	Hg	200	2305.589	**8.070**	0.16	1.9	ug/L
	Hg	201	1329.448	**8.150**	0.29	3.6	ug/L
>	Bi	209	359288.977				ug/L
	U	238	520654.891	**40.381**	0.56	1.4	ug/L
	C	13	513.351				ug/L
	W	184	13.998				ug/L
	Pd	106	-202.125				ug/L
	Kr	83	10.833				ug/L
	Na	23	5267130.042	**3995.940**	115.43	2.9	ug/L
	Mg	24	3281817.893	**3927.176**	101.66	2.6	ug/L

K	39	5128467.384	**4004.993**	46.08	1.2	ug/L
Ca	44	187654.796	**4002.043**	35.49	0.9	ug/L
Ti	47	53.334				ug/L
Sc-1	45	249815.559				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000195	0.000	0.999968	Linear Thru Zero
B	11.009	0.000471	0.000	0.999989	Linear Thru Zero
Al	26.982	0.005324	0.000	0.999985	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007742	0.000	0.999951	Linear Thru Zero
Cr	51.941	0.006648	0.000	0.999974	Linear Thru Zero
Cr	52.941	0.000961	0.000	0.991464	Linear Thru Zero
Mn	54.938	0.011264	0.000	0.999892	Linear Thru Zero
Co	58.933	0.006854	0.000	0.999951	Linear Thru Zero
Ni	59.933	0.001371	0.000	0.999948	Linear Thru Zero
Cu	62.930	0.004310	0.000	0.999998	Linear Thru Zero
Cu	64.928	0.001981	0.000	0.999983	Linear Thru Zero
Zn	65.926	0.001204	0.000	0.999971	Linear Thru Zero
Zn	67.925	0.000845	0.000	0.999987	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001167	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000126	0.000	0.998288	Linear Thru Zero
Se	81.917	0.000164	0.000	0.999996	Linear Thru Zero
Sr	87.906	0.024293	0.000	0.999744	Linear Thru Zero
Mo	97.906	0.004350	0.000	0.999859	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009795	0.000	0.999993	Linear Thru Zero
Cd	110.904	0.001454	0.000	0.999983	Linear Thru Zero
Cd	113.904	0.003578	0.000	0.999999	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006891	0.000	0.999972	Linear Thru Zero
Sb	120.904	0.004440	0.000	0.999961	Linear Thru Zero
Ba	136.905	0.002148	0.000	0.999999	Linear Thru Zero
Ba	137.905	0.013466	0.000	0.999999	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014992	0.000	0.999978	Linear Thru Zero
Pb	207.977	0.011035	0.000	0.999992	Linear Thru Zero
Hg	199.968	0.000793	0.000	0.999863	Linear Thru Zero
Hg	200.970	0.000454	0.000	0.999325	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035891	0.000	0.999845	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1317.182561	0.000	0.999997	Linear Thru Zero
Mg	23.985	835.588952	0.000	0.999441	Linear Thru Zero
K	38.964	1266.878882	0.000	0.999962	Linear Thru Zero
Ca	43.956	46.693176	0.000	0.999986	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 5

Sample Date/Time: Tuesday, July 25, 2017 08:32:46
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 6
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	4540.007	**99.352**	1.66	1.7	ug/L
	B	11	108287.009	**990.668**	18.22	1.8	ug/L
	Al	27	310208.883	**248.114**	0.23	0.1	ug/L
>	Sc	45	241111.794				ug/L
	V	51	187414.717	**99.888**	0.69	0.7	ug/L
	Cr	52	161052.210	**99.725**	0.74	0.7	ug/L
	Cr	53	37923.643	**96.063**	2.16	2.2	ug/L
	Mn	55	674484.450	**249.700**	1.29	0.5	ug/L
	Co	59	164400.770	**99.910**	0.97	1.0	ug/L
	Ni	60	81333.925	**249.274**	0.82	0.3	ug/L
	Cu	63	164955.375	**248.741**	3.91	1.6	ug/L
	Cu	65	76088.234	**248.906**	3.01	1.2	ug/L
	Zn	66	47103.474	**249.608**	4.32	1.7	ug/L
	Zn	68	32939.399	**249.389**	1.68	0.7	ug/L
>	Ge	72	157560.860				ug/L
	As	75	46168.530	**250.179**	3.17	1.3	ug/L
	Se	77	5754.654	**247.003**	3.48	1.4	ug/L
	Se	82	6596.392	**250.656**	6.23	2.5	ug/L
	Sr	88	99930.318	**19.904**	0.46	2.3	ug/L
	Mo	98	89832.804	**100.257**	0.81	0.8	ug/L
>	Rh	103	203446.407				ug/L
	Ag	107	197176.124	**99.816**	0.34	0.3	ug/L
	Cd	111	47300.261	**100.217**	0.84	0.8	ug/L
	Cd	114	113165.676	**99.724**	0.42	0.4	ug/L
>	In	115	321293.511				ug/L
	Sn	120	222041.093	**100.034**	1.19	1.2	ug/L
	Sb	121	143431.047	**100.055**	0.52	0.5	ug/L
	Ba	137	91531.661	**99.746**	0.47	0.5	ug/L
	Ba	138	568333.822	**99.577**	0.70	0.7	ug/L
>	Tb	159	432259.111				ug/L
	Tl	205	626178.614	**99.394**	0.90	0.9	ug/L
	Pb	208	1152220.773	**248.487**	3.53	1.4	ug/L
	Hg	200	5537.802	**20.029**	0.33	1.6	ug/L
	Hg	201	3251.354	**20.121**	0.32	1.6	ug/L
>	Bi	209	345852.781				ug/L
	U	238	1290251.985	**100.663**	0.38	0.4	ug/L
	C	13	413.345				ug/L
	W	184	29.999				ug/L
	Pd	106	-471.590				ug/L
	Kr	83	13.167				ug/L
	Na	23	12249764.864	**9870.441**	316.78	3.2	ug/L
	Mg	24	7501368.622	**9805.976**	258.52	2.6	ug/L

K	39	11935642.622	**9886.190**	326.56	3.3	ug/L
Ca	44	442220.837	**9900.710**	317.80	3.2	ug/L
Ti	47	116.668				ug/L
Sc-1	45	241111.794				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Blank

Sample Date/Time: Tuesday, July 25, 2017 16:05:51
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.305
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	2.333				ug/L
	B	11	532.019				ug/L
	Al	27	2345.691				ug/L
>	Sc	45	217361.389				ug/L
	V	51	2101.449				ug/L
	Cr	52	2852.529				ug/L
	Cr	53	20150.212				ug/L
	Mn	55	278.672				ug/L
	Co	59	9.667				ug/L
	Ni	60	117.334				ug/L
	Cu	63	50.000				ug/L
	Cu	65	28.667				ug/L
	Zn	66	163.335				ug/L
	Zn	68	150.668				ug/L
>	Ge	72	149096.721				ug/L
	As	75	-15.833				ug/L
	Se	77	1098.912				ug/L
	Se	82	16.741				ug/L
	Sr	88	23864.326				ug/L
	Mo	98	26.265				ug/L
>	Rh	103	192585.843				ug/L
	Ag	107	10.000				ug/L
	Cd	111	5.940				ug/L
	Cd	114	7.282				ug/L
>	In	115	296150.452				ug/L
	Sn	120	233.295				ug/L
	Sb	121	180.669				ug/L
	Ba	137	28.975				ug/L
	Ba	138	167.976				ug/L
>	Tb	159	386975.482				ug/L
	Tl	205	26.667				ug/L
	Pb	208	28.000				ug/L
	Hg	200	17.227				ug/L
	Hg	201	9.333				ug/L
>	Bi	209	328313.415				ug/L
	U	238	57.000				ug/L
	C	13	580.022				ug/L
	W	184	16.667				ug/L
	Pd	106	2.146				ug/L
	Kr	83	10.667				ug/L
	Na	23	3934.341				ug/L
	Mg	24	366.675				ug/L

K	39	58488.666		ug/L
Ca	44	553.353		ug/L
Ti	47	26.667		ug/L
Sc-1	45	217361.389		ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 1

Sample Date/Time: Tuesday, July 25, 2017 16:09:18
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.305
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 2
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	41.333	**1.000**	0.15	15.2	ug/L
	B	11	2438.386	**20.000**	0.62	3.1	ug/L
	Al	27	25034.736	**20.000**	0.50	2.5	ug/L
>	Sc	45	215579.120				ug/L
	V	51	7201.923	**3.000**	0.41	13.8	ug/L
	Cr	52	7351.679	**3.000**	0.06	1.9	ug/L
	Cr	53	20962.872	**3.000**	0.44	14.8	ug/L
	Mn	55	2741.155	**1.000**	0.03	2.5	ug/L
	Co	59	1514.149	**1.000**	0.04	3.9	ug/L
	Ni	60	640.027	**1.000**	0.03	3.4	ug/L
	Cu	63	1409.463	**2.000**	0.09	4.3	ug/L
	Cu	65	636.693	**2.000**	0.11	5.6	ug/L
	Zn	66	1106.746	**5.000**	0.30	5.9	ug/L
	Zn	68	815.043	**5.000**	0.29	5.8	ug/L
>	Ge	72	146187.434				ug/L
	As	75	322.892	**2.000**	0.19	9.6	ug/L
	Se	77	1094.078	**2.000**	2.75	137.6	ug/L
	Se	82	64.934	**2.000**	0.13	6.4	ug/L
	Sr	88	24201.031	**0.200**	0.05	27.0	ug/L
	Mo	98	847.015	**1.000**	0.05	5.1	ug/L
>	Rh	103	189809.661				ug/L
	Ag	107	1912.905	**1.000**	0.03	2.9	ug/L
	Cd	111	501.127	**1.000**	0.04	4.3	ug/L
	Cd	114	1135.323	**1.000**	0.03	3.0	ug/L
>	In	115	293766.514				ug/L
	Sn	120	2268.310	**1.000**	0.05	4.7	ug/L
	Sb	121	3076.615	**2.000**	0.03	1.5	ug/L
	Ba	137	869.347	**1.000**	0.01	1.4	ug/L
	Ba	138	5579.322	**1.000**	0.01	0.5	ug/L
>	Tb	159	387643.242				ug/L
	Tl	205	5830.877	**1.000**	0.02	1.7	ug/L
	Pb	208	4373.243	**1.000**	0.03	3.2	ug/L
	Hg	200	80.569	**0.200**	0.03	14.8	ug/L
	Hg	201	38.667	**0.200**	0.06	30.0	ug/L
>	Bi	209	325380.772				ug/L
	U	238	11569.027	**1.000**	0.02	2.0	ug/L
	C	13	460.015				ug/L
	W	184	15.333				ug/L
	Pd	106	2.243				ug/L
	Kr	83	7.667				ug/L
	Na	23	124968.464	**100.000**	4.97	5.0	ug/L
	Mg	24	78902.917	**100.000**	3.45	3.5	ug/L

K	39	173297.339	**100.000**	2.47	2.5	ug/L
Ca	44	4324.550	**100.000**	4.91	4.9	ug/L
Ti	47	26.667				ug/L
Sc-1	45	215579.120				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000181	0.000	1.000000	Linear Thru Zero
B	11.009	0.000443	0.000	1.000000	Linear Thru Zero
Al	26.982	0.005265	0.000	1.000000	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007934	0.000	1.000000	Linear Thru Zero
Cr	51.941	0.006996	0.000	1.000000	Linear Thru Zero
Cr	52.941	0.001516	0.000	1.000000	Linear Thru Zero
Mn	54.938	0.011438	0.000	1.000000	Linear Thru Zero
Co	58.933	0.006984	0.000	1.000000	Linear Thru Zero
Ni	59.933	0.002428	0.000	1.000000	Linear Thru Zero
Cu	62.930	0.004651	0.000	1.000000	Linear Thru Zero
Cu	64.928	0.002080	0.000	1.000000	Linear Thru Zero
Zn	65.926	0.001296	0.000	1.000000	Linear Thru Zero
Zn	67.925	0.000913	0.000	1.000000	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001156	0.000	1.000000	Linear Thru Zero
Se	76.920	0.000058	0.000	1.000000	Linear Thru Zero
Se	81.917	0.000166	0.000	1.000000	Linear Thru Zero
Sr	87.906	0.027362	0.000	1.000000	Linear Thru Zero
Mo	97.906	0.004328	0.000	1.000000	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.010023	0.000	1.000000	Linear Thru Zero
Cd	110.904	0.001686	0.000	1.000000	Linear Thru Zero
Cd	113.904	0.003841	0.000	1.000000	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006931	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.004932	0.000	1.000000	Linear Thru Zero
Ba	136.905	0.002168	0.000	1.000000	Linear Thru Zero
Ba	137.905	0.013959	0.000	1.000000	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014974	0.000	1.000000	Linear Thru Zero
Pb	207.977	0.011215	0.000	1.000000	Linear Thru Zero
Hg	199.968	0.000975	0.000	1.000000	Linear Thru Zero
Hg	200.970	0.000450	0.000	1.000000	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035391	0.000	1.000000	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1210.341226	0.000	1.000000	Linear Thru Zero
Mg	23.985	785.362417	0.000	1.000000	Linear Thru Zero
K	38.964	1148.086725	0.000	1.000000	Linear Thru Zero
Ca	43.956	37.711968	0.000	1.000000	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 2

Sample Date/Time: Tuesday, July 25, 2017 16:12:46
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.305
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 3
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	450.013	**10.014**	0.53	5.3	ug/L
	B	11	9762.199	**99.904**	3.11	3.1	ug/L
	Al	27	30605.478	**25.067**	0.61	2.4	ug/L
>	Sc	45	213512.066				ug/L
	V	51	17954.048	**9.945**	0.55	5.5	ug/L
	Cr	52	16775.450	**9.943**	0.12	1.2	ug/L
	Cr	53	20364.779	**7.200**	4.37	60.7	ug/L
	Mn	55	59653.224	**24.999**	0.29	1.2	ug/L
	Co	59	14329.346	**9.996**	0.20	2.0	ug/L
	Ni	60	7559.381	**24.970**	0.59	2.3	ug/L
	Cu	63	15373.024	**24.984**	0.36	1.4	ug/L
	Cu	65	7122.300	**24.990**	0.58	2.3	ug/L
	Zn	66	4536.338	**24.930**	0.77	3.1	ug/L
	Zn	68	3174.656	**24.911**	0.98	3.9	ug/L
>	Ge	72	144948.415				ug/L
	As	75	4157.931	**24.999**	0.78	3.1	ug/L
	Se	77	1383.624	**25.053**	1.04	4.1	ug/L
	Se	82	614.611	**24.999**	0.98	3.9	ug/L
	Sr	88	29751.438	**1.996**	0.04	2.0	ug/L
	Mo	98	8030.941	**9.999**	0.16	1.6	ug/L
>	Rh	103	187728.050				ug/L
	Ag	107	18317.790	**9.997**	0.11	1.1	ug/L
	Cd	111	4503.419	**9.991**	0.31	3.1	ug/L
	Cd	114	10622.970	**9.995**	0.21	2.1	ug/L
>	In	115	290537.583				ug/L
	Sn	120	20217.863	**9.999**	0.00	0.0	ug/L
	Sb	121	13949.308	**9.984**	0.19	1.9	ug/L
	Ba	137	8133.519	**9.997**	0.10	1.0	ug/L
	Ba	138	51570.858	**9.995**	0.06	0.6	ug/L
>	Tb	159	385958.210				ug/L
	Tl	205	55681.879	**9.996**	0.14	1.4	ug/L
	Pb	208	102421.133	**24.998**	0.20	0.8	ug/L
	Hg	200	536.621	**1.996**	0.18	9.2	ug/L
	Hg	201	306.673	**2.000**	0.20	10.2	ug/L
>	Bi	209	321896.689				ug/L
	U	238	111116.329	**9.997**	0.07	0.7	ug/L
	C	13	513.351				ug/L
	W	184	10.000				ug/L
	Pd	106	-52.989				ug/L
	Kr	83	9.333				ug/L
	Na	23	1097066.932	**998.940**	56.89	5.7	ug/L
	Mg	24	730167.545	**999.247**	36.44	3.6	ug/L

K	39	1130534.981	**999.298**	10.99	1.1	ug/L
Ca	44	38027.097	**999.937**	5.03	0.5	ug/L
Ti	47	40.000				ug/L
Sc-1	45	213512.066				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000209	0.000	0.999908	Linear Thru Zero
B	11.009	0.000433	0.000	0.999988	Linear Thru Zero
Al	26.982	0.005287	0.000	0.999994	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007478	0.000	0.999833	Linear Thru Zero
Cr	51.941	0.006581	0.000	0.999821	Linear Thru Zero
Cr	52.941	0.000369	0.000	0.731115	Linear Thru Zero
Mn	54.938	0.011123	0.000	0.999999	Linear Thru Zero
Co	58.933	0.006708	0.000	0.999992	Linear Thru Zero
Ni	59.933	0.001396	0.000	0.999564	Linear Thru Zero
Cu	62.930	0.004231	0.000	0.999969	Linear Thru Zero
Cu	64.928	0.001958	0.000	0.999987	Linear Thru Zero
Zn	65.926	0.001211	0.000	0.999902	Linear Thru Zero
Zn	67.925	0.000839	0.000	0.999843	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001152	0.000	1.000000	Linear Thru Zero
Se	76.920	0.000087	0.000	0.999643	Linear Thru Zero
Se	81.917	0.000165	0.000	1.000000	Linear Thru Zero
Sr	87.906	0.022652	0.000	0.999784	Linear Thru Zero
Mo	97.906	0.004265	0.000	0.999999	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009755	0.000	0.999996	Linear Thru Zero
Cd	110.904	0.001550	0.000	0.999961	Linear Thru Zero
Cd	113.904	0.003655	0.000	0.999987	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006881	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.004748	0.000	0.999970	Linear Thru Zero
Ba	136.905	0.002101	0.000	0.999995	Linear Thru Zero
Ba	137.905	0.013325	0.000	0.999989	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014425	0.000	0.999993	Linear Thru Zero
Pb	207.977	0.010613	0.000	0.999997	Linear Thru Zero
Hg	199.968	0.000810	0.000	0.999793	Linear Thru Zero
Hg	200.970	0.000462	0.000	0.999997	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.034514	0.000	0.999997	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1094.293073	0.000	0.999944	Linear Thru Zero
Mg	23.985	730.350984	0.000	0.999972	Linear Thru Zero
K	38.964	1072.799190	0.000	0.999975	Linear Thru Zero
Ca	43.956	37.476102	0.000	1.000000	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: Standard 3

Sample Date/Time: Tuesday, July 25, 2017 16:16:14
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.305
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 4
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	854.381	**19.834**	0.67	3.4	ug/L
	B	11	19050.906	**200.373**	4.30	2.1	ug/L
	Al	27	58347.243	**50.000**	1.16	2.3	ug/L
>	Sc	45	212027.949				ug/L
	V	51	34470.575	**20.094**	0.45	2.3	ug/L
	Cr	52	30606.611	**19.987**	0.26	1.3	ug/L
	Cr	53	22072.791	**21.638**	3.16	14.6	ug/L
	Mn	55	118923.761	**50.062**	1.04	2.1	ug/L
	Co	59	28786.440	**20.046**	0.31	1.6	ug/L
	Ni	60	14558.435	**49.754**	1.44	2.9	ug/L
	Cu	63	30097.443	**49.887**	0.63	1.3	ug/L
	Cu	65	13731.249	**49.738**	0.37	0.7	ug/L
	Zn	66	8891.136	**50.040**	0.69	1.4	ug/L
	Zn	68	6232.525	**50.106**	0.97	1.9	ug/L
>	Ge	72	143672.377				ug/L
	As	75	8446.446	**50.223**	0.23	0.5	ug/L
	Se	77	1789.375	**51.511**	0.87	1.7	ug/L
	Se	82	1232.153	**50.241**	0.24	0.5	ug/L
	Sr	88	36200.985	**4.012**	0.25	6.2	ug/L
	Mo	98	16058.421	**20.068**	0.15	0.8	ug/L
>	Rh	103	184792.022				ug/L
	Ag	107	36326.240	**20.029**	0.05	0.3	ug/L
	Cd	111	8943.199	**19.993**	0.24	1.2	ug/L
	Cd	114	21507.900	**20.072**	0.06	0.3	ug/L
>	In	115	288893.486				ug/L
	Sn	120	39745.066	**19.976**	0.15	0.7	ug/L
	Sb	121	27284.976	**19.951**	0.23	1.1	ug/L
	Ba	137	16116.418	**19.958**	0.12	0.6	ug/L
	Ba	138	101588.299	**19.933**	0.02	0.1	ug/L
>	Tb	159	386886.628				ug/L
	Tl	205	111872.731	**20.008**	0.25	1.3	ug/L
	Pb	208	204002.797	**49.935**	0.30	0.6	ug/L
	Hg	200	1074.669	**4.021**	0.08	2.1	ug/L
	Hg	201	572.021	**3.965**	0.32	8.1	ug/L
>	Bi	209	318191.113				ug/L
	U	238	223173.501	**20.063**	0.10	0.5	ug/L
	C	13	546.686				ug/L
	W	184	11.331				ug/L
	Pd	106	-101.910				ug/L
	Kr	83	13.167				ug/L
	Na	23	2412650.092	**2037.539**	26.03	1.3	ug/L
	Mg	24	1473930.249	**2003.525**	55.90	2.8	ug/L

K	39	2327928.957	**2022.247**	28.07		1.4	ug/L
Ca	44	74414.898	**1994.064**	19.07		1.0	ug/L
Ti	47	33.333					ug/L
Sc-1	45	212027.949					ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000203	0.000	0.999845	Linear Thru Zero
B	11.009	0.000436	0.000	0.999991	Linear Thru Zero
Al	26.982	0.005287	0.000	0.999998	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007609	0.000	0.999925	Linear Thru Zero
Cr	51.941	0.006566	0.000	0.999961	Linear Thru Zero
Cr	52.941	0.000527	0.000	0.946666	Linear Thru Zero
Mn	54.938	0.011179	0.000	0.999997	Linear Thru Zero
Co	58.933	0.006771	0.000	0.999988	Linear Thru Zero
Ni	59.933	0.001369	0.000	0.999861	Linear Thru Zero
Cu	62.930	0.004194	0.000	0.999983	Linear Thru Zero
Cu	64.928	0.001918	0.000	0.999943	Linear Thru Zero
Zn	65.926	0.001215	0.000	0.999979	Linear Thru Zero
Zn	67.925	0.000846	0.000	0.999960	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999961	Linear Thru Zero
Se	76.920	0.000099	0.000	0.998135	Linear Thru Zero
Se	81.917	0.000168	0.000	0.999954	Linear Thru Zero
Sr	87.906	0.022934	0.000	0.999938	Linear Thru Zero
Mo	97.906	0.004324	0.000	0.999977	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009812	0.000	0.999995	Linear Thru Zero
Cd	110.904	0.001548	0.000	0.999992	Linear Thru Zero
Cd	113.904	0.003708	0.000	0.999972	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006848	0.000	0.999997	Linear Thru Zero
Sb	120.904	0.004703	0.000	0.999982	Linear Thru Zero
Ba	136.905	0.002083	0.000	0.999990	Linear Thru Zero
Ba	137.905	0.013151	0.000	0.999976	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014449	0.000	0.999998	Linear Thru Zero
Pb	207.977	0.010558	0.000	0.999996	Linear Thru Zero
Hg	199.968	0.000827	0.000	0.999906	Linear Thru Zero
Hg	200.970	0.000446	0.000	0.999847	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.034951	0.000	0.999980	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1182.169163	0.000	0.999293	Linear Thru Zero
Mg	23.985	735.485358	0.000	0.999988	Linear Thru Zero
K	38.964	1122.237079	0.000	0.999751	Linear Thru Zero
Ca	43.956	37.040709	0.000	0.999983	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 4

Sample Date/Time: Tuesday, July 25, 2017 16:19:42
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.305
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 5
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1699.855	**40.084**	1.98	4.9	ug/L
	B	11	36493.703	**399.370**	4.56	1.1	ug/L
	Al	27	109233.519	**99.327**	1.14	1.1	ug/L
>	Sc	45	207612.386				ug/L
	V	51	66482.068	**40.194**	0.41	1.0	ug/L
	Cr	52	57375.187	**40.022**	0.28	0.7	ug/L
	Cr	53	24414.015	**41.530**	0.67	1.6	ug/L
	Mn	55	231914.534	**99.954**	1.38	1.4	ug/L
	Co	59	56586.090	**40.059**	0.79	2.0	ug/L
	Ni	60	28736.246	**100.161**	0.98	1.0	ug/L
	Cu	63	58678.027	**99.598**	1.66	1.7	ug/L
	Cu	65	26788.573	**99.551**	1.28	1.3	ug/L
	Zn	66	16951.666	**99.318**	1.68	1.7	ug/L
	Zn	68	12085.489	**99.836**	1.34	1.3	ug/L
>	Ge	72	142172.584				ug/L
	As	75	16774.681	**100.165**	0.20	0.2	ug/L
	Se	77	2574.098	**101.946**	4.32	4.2	ug/L
	Se	82	2438.140	**100.269**	0.96	1.0	ug/L
	Sr	88	49219.983	**8.027**	0.04	0.5	ug/L
	Mo	98	31815.648	**40.040**	0.63	1.6	ug/L
>	Rh	103	183062.998				ug/L
	Ag	107	70537.336	**39.822**	0.13	0.3	ug/L
	Cd	111	17605.006	**39.947**	0.79	2.0	ug/L
	Cd	114	42534.890	**40.027**	0.32	0.8	ug/L
>	In	115	285908.288				ug/L
	Sn	120	78871.005	**40.040**	0.26	0.6	ug/L
	Sb	121	55750.701	**40.310**	0.49	1.2	ug/L
	Ba	137	32354.727	**40.068**	0.29	0.7	ug/L
	Ba	138	202938.088	**40.009**	0.21	0.5	ug/L
>	Tb	159	385111.765				ug/L
	Tl	205	222524.991	**39.997**	0.34	0.9	ug/L
	Pb	208	409048.637	**100.141**	0.89	0.9	ug/L
	Hg	200	2078.858	**8.004**	0.30	3.7	ug/L
	Hg	201	1219.430	**8.162**	0.13	1.5	ug/L
>	Bi	209	310984.558				ug/L
	U	238	447632.243	**40.276**	0.45	1.1	ug/L
	C	13	506.684				ug/L
	W	184	13.999				ug/L
	Pd	106	-180.224				ug/L
	Kr	83	9.500				ug/L
	Na	23	4758362.748	**4005.173**	80.24	2.0	ug/L
	Mg	24	3032694.009	**4028.635**	31.09	0.8	ug/L

K	39	4653940.883	**4022.229**	88.48	2.2	ug/L
Ca	44	153537.497	**4030.288**	75.27	1.9	ug/L
Ti	47	33.333				ug/L
Sc-1	45	207612.386				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000204	0.000	0.999956	Linear Thru Zero
B	11.009	0.000434	0.000	0.999994	Linear Thru Zero
Al	26.982	0.005188	0.000	0.999935	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007726	0.000	0.999946	Linear Thru Zero
Cr	51.941	0.006577	0.000	0.999990	Linear Thru Zero
Cr	52.941	0.000599	0.000	0.987133	Linear Thru Zero
Mn	54.938	0.011163	0.000	0.999999	Linear Thru Zero
Co	58.933	0.006803	0.000	0.999994	Linear Thru Zero
Ni	59.933	0.001377	0.000	0.999963	Linear Thru Zero
Cu	62.930	0.004140	0.000	0.999970	Linear Thru Zero
Cu	64.928	0.001891	0.000	0.999954	Linear Thru Zero
Zn	65.926	0.001189	0.000	0.999921	Linear Thru Zero
Zn	67.925	0.000841	0.000	0.999986	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001179	0.000	0.999986	Linear Thru Zero
Se	76.920	0.000105	0.000	0.999004	Linear Thru Zero
Se	81.917	0.000170	0.000	0.999978	Linear Thru Zero
Sr	87.906	0.023188	0.000	0.999967	Linear Thru Zero
Mo	97.906	0.004337	0.000	0.999993	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009674	0.000	0.999967	Linear Thru Zero
Cd	110.904	0.001541	0.000	0.999995	Linear Thru Zero
Cd	113.904	0.003716	0.000	0.999993	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006870	0.000	0.999998	Linear Thru Zero
Sb	120.904	0.004822	0.000	0.999901	Linear Thru Zero
Ba	136.905	0.002095	0.000	0.999993	Linear Thru Zero
Ba	137.905	0.013160	0.000	0.999994	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014445	0.000	1.000000	Linear Thru Zero
Pb	207.977	0.010606	0.000	0.999996	Linear Thru Zero
Hg	199.968	0.000828	0.000	0.999977	Linear Thru Zero
Hg	200.970	0.000477	0.000	0.999318	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035738	0.000	0.999919	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1187.071924	0.000	0.999830	Linear Thru Zero
Mg	23.985	752.693526	0.000	0.999915	Linear Thru Zero
K	38.964	1142.513881	0.000	0.999893	Linear Thru Zero
Ca	43.956	37.958616	0.000	0.999904	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 5

Sample Date/Time: Tuesday, July 25, 2017 16:23:10
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.305
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 6
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	4070.411	**99.361**	2.57	2.6	ug/L
	B	11	86780.306	**993.010**	36.18	3.6	ug/L
	Al	27	262161.097	**248.584**	5.76	2.3	ug/L
>	Sc	45	206757.676				ug/L
	V	51	158666.156	**99.659**	0.66	0.7	ug/L
	Cr	52	136834.566	**99.757**	0.60	0.6	ug/L
	Cr	53	33261.129	**102.143**	2.99	2.9	ug/L
	Mn	55	574058.057	**249.756**	1.31	0.5	ug/L
	Co	59	137600.617	**99.614**	0.82	0.8	ug/L
	Ni	60	69054.038	**248.614**	2.45	1.0	ug/L
	Cu	63	139198.304	**249.079**	1.08	0.4	ug/L
	Cu	65	64423.822	**249.662**	1.12	0.4	ug/L
	Zn	66	41458.814	**250.513**	1.37	0.5	ug/L
	Zn	68	29268.947	**250.378**	1.04	0.4	ug/L
>	Ge	72	137287.189				ug/L
	As	75	40699.242	**250.266**	0.34	0.1	ug/L
	Se	77	4842.859	**252.481**	3.70	1.5	ug/L
	Se	82	5885.163	**250.280**	0.75	0.3	ug/L
	Sr	88	86452.086	**20.043**	0.16	0.8	ug/L
	Mo	98	78189.806	**100.396**	1.60	1.6	ug/L
>	Rh	103	176085.732				ug/L
	Ag	107	171712.574	**100.136**	0.39	0.4	ug/L
	Cd	111	42831.405	**99.815**	0.86	0.9	ug/L
	Cd	114	103411.360	**99.837**	0.66	0.7	ug/L
>	In	115	280877.261				ug/L
	Sn	120	192200.969	**99.913**	0.88	0.9	ug/L
	Sb	121	134391.202	**99.845**	1.47	1.5	ug/L
	Ba	137	78484.015	**99.713**	1.19	1.2	ug/L
	Ba	138	496605.434	**99.839**	0.92	0.9	ug/L
>	Tb	159	380735.547				ug/L
	Tl	205	539498.624	**99.664**	0.85	0.8	ug/L
	Pb	208	996954.868	**249.453**	3.70	1.5	ug/L
	Hg	200	5003.407	**20.004**	0.68	3.4	ug/L
	Hg	201	2838.524	**19.954**	0.28	1.4	ug/L
>	Bi	209	300614.070				ug/L
	U	238	1115098.630	**100.638**	0.31	0.3	ug/L
	C	13	446.680				ug/L
	W	184	34.663				ug/L
	Pd	106	-440.764				ug/L
	Kr	83	11.167				ug/L
	Na	23	11321011.742	**9915.778**	457.85	4.6	ug/L
	Mg	24	7087415.923	**9893.384**	324.06	3.3	ug/L

K	39	11249916.343	**9963.873**	90.69	0.9	ug/L
Ca	44	371227.052	**9958.428**	93.18	0.9	ug/L
Ti	47	113.334				ug/L
Sc-1	45	206757.676				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000198	0.000	0.999895	Linear Thru Zero
B	11.009	0.000420	0.000	0.999883	Linear Thru Zero
Al	26.982	0.005056	0.000	0.999914	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007604	0.000	0.999963	Linear Thru Zero
Cr	51.941	0.006502	0.000	0.999984	Linear Thru Zero
Cr	52.941	0.000667	0.000	0.997080	Linear Thru Zero
Mn	54.938	0.011111	0.000	0.999998	Linear Thru Zero
Co	58.933	0.006680	0.000	0.999963	Linear Thru Zero
Ni	59.933	0.001341	0.000	0.999920	Linear Thru Zero
Cu	62.930	0.004069	0.000	0.999962	Linear Thru Zero
Cu	64.928	0.001879	0.000	0.999988	Linear Thru Zero
Zn	65.926	0.001201	0.000	0.999976	Linear Thru Zero
Zn	67.925	0.000847	0.000	0.999992	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001185	0.000	0.999995	Linear Thru Zero
Se	76.920	0.000110	0.000	0.999609	Linear Thru Zero
Se	81.917	0.000171	0.000	0.999993	Linear Thru Zero
Sr	87.906	0.023429	0.000	0.999983	Linear Thru Zero
Mo	97.906	0.004421	0.000	0.999961	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009738	0.000	0.999990	Linear Thru Zero
Cd	110.904	0.001528	0.000	0.999991	Linear Thru Zero
Cd	113.904	0.003687	0.000	0.999992	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006842	0.000	0.999998	Linear Thru Zero
Sb	120.904	0.004787	0.000	0.999977	Linear Thru Zero
Ba	136.905	0.002067	0.000	0.999979	Linear Thru Zero
Ba	137.905	0.013060	0.000	0.999993	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014217	0.000	0.999973	Linear Thru Zero
Pb	207.977	0.010497	0.000	0.999988	Linear Thru Zero
Hg	199.968	0.000829	0.000	0.999996	Linear Thru Zero
Hg	200.970	0.000472	0.000	0.999866	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.036858	0.000	0.999890	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1141.320181	0.000	0.999799	Linear Thru Zero
Mg	23.985	716.342314	0.000	0.999713	Linear Thru Zero
K	38.964	1123.200507	0.000	0.999950	Linear Thru Zero
Ca	43.956	37.222110	0.000	0.999942	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Blank

Sample Date/Time: Tuesday, July 25, 2017 23:19:02
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.392
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	0.333				ug/L
	B	11	316.673				ug/L
	Al	27	1342.118				ug/L
>	Sc	45	159480.221				ug/L
	V	51	782.976				ug/L
	Cr	52	2165.472				ug/L
	Cr	53	12854.733				ug/L
	Mn	55	371.342				ug/L
	Co	59	16.333				ug/L
	Ni	60	25.000				ug/L
	Cu	63	14.000				ug/L
	Cu	65	10.667				ug/L
	Zn	66	75.000				ug/L
	Zn	68	60.334				ug/L
>	Ge	72	120805.124				ug/L
	As	75	86.747				ug/L
	Se	77	768.372				ug/L
	Se	82	12.087				ug/L
	Sr	88	18170.773				ug/L
	Mo	98	17.968				ug/L
>	Rh	103	157373.174				ug/L
	Ag	107	5.333				ug/L
	Cd	111	1.745				ug/L
	Cd	114	8.839				ug/L
>	In	115	238253.220				ug/L
	Sn	120	188.635				ug/L
	Sb	121	248.671				ug/L
	Ba	137	23.979				ug/L
	Ba	138	137.980				ug/L
>	Tb	159	319600.619				ug/L
	Tl	205	58.667				ug/L
	Pb	208	23.000				ug/L
	Hg	200	13.286				ug/L
	Hg	201	4.000				ug/L
>	Bi	209	269969.505				ug/L
	U	238	31.333				ug/L
	C	13	273.338				ug/L
	W	184	7.333				ug/L
	Pd	106	0.406				ug/L
	Kr	83	9.167				ug/L
	Na	23	1986.924				ug/L
	Mg	24	253.338				ug/L

K	39	56171.159		ug/L
Ca	44	486.682		ug/L
Ti	47	20.000		ug/L
Sc-1	45	159480.221		ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000198	0.000	0.999895	Linear Thru Zero
B	11.009	0.000420	0.000	0.999883	Linear Thru Zero
Al	26.982	0.005056	0.000	0.999914	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007604	0.000	0.999963	Linear Thru Zero
Cr	51.941	0.006502	0.000	0.999984	Linear Thru Zero
Cr	52.941	0.000667	0.000	0.997080	Linear Thru Zero
Mn	54.938	0.011111	0.000	0.999998	Linear Thru Zero
Co	58.933	0.006680	0.000	0.999963	Linear Thru Zero
Ni	59.933	0.001341	0.000	0.999920	Linear Thru Zero
Cu	62.930	0.004069	0.000	0.999962	Linear Thru Zero
Cu	64.928	0.001879	0.000	0.999988	Linear Thru Zero
Zn	65.926	0.001201	0.000	0.999976	Linear Thru Zero
Zn	67.925	0.000847	0.000	0.999992	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001185	0.000	0.999995	Linear Thru Zero
Se	76.920	0.000110	0.000	0.999609	Linear Thru Zero
Se	81.917	0.000171	0.000	0.999993	Linear Thru Zero
Sr	87.906	0.023429	0.000	0.999983	Linear Thru Zero
Mo	97.906	0.004421	0.000	0.999961	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009738	0.000	0.999990	Linear Thru Zero
Cd	110.904	0.001528	0.000	0.999991	Linear Thru Zero
Cd	113.904	0.003687	0.000	0.999992	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006842	0.000	0.999998	Linear Thru Zero
Sb	120.904	0.004787	0.000	0.999977	Linear Thru Zero
Ba	136.905	0.002067	0.000	0.999979	Linear Thru Zero
Ba	137.905	0.013060	0.000	0.999993	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014217	0.000	0.999973	Linear Thru Zero
Pb	207.977	0.010497	0.000	0.999988	Linear Thru Zero
Hg	199.968	0.000829	0.000	0.999996	Linear Thru Zero
Hg	200.970	0.000472	0.000	0.999866	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.036858	0.000	0.999890	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1141.320181	0.000	0.999799	Linear Thru Zero
Mg	23.985	716.342314	0.000	0.999713	Linear Thru Zero
K	38.964	1123.200507	0.000	0.999950	Linear Thru Zero
Ca	43.956	37.222110	0.000	0.999942	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 1

Sample Date/Time: Tuesday, July 25, 2017 23:22:30
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.392
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 2
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	37.667	**1.000**	0.24	24.0	ug/L
	B	11	1527.485	**20.000**	1.19	5.9	ug/L
	Al	27	18522.287	**20.000**	0.48	2.4	ug/L
>	Sc	45	164828.278				ug/L
	V	51	4978.867	**3.000**	0.06	2.0	ug/L
	Cr	52	6169.140	**3.000**	0.12	3.9	ug/L
	Cr	53	14079.541	**3.000**	1.01	33.7	ug/L
	Mn	55	2516.412	**1.000**	0.02	2.2	ug/L
	Co	59	1280.107	**1.000**	0.03	2.7	ug/L
	Ni	60	550.353	**1.000**	0.05	5.1	ug/L
	Cu	63	1199.760	**2.000**	0.04	2.2	ug/L
	Cu	65	522.684	**2.000**	0.13	6.4	ug/L
	Zn	66	900.719	**5.000**	0.19	3.8	ug/L
	Zn	68	660.028	**5.000**	0.22	4.4	ug/L
>	Ge	72	123113.645				ug/L
	As	75	333.683	**2.000**	0.81	40.3	ug/L
	Se	77	833.379	**2.000**	0.35	17.5	ug/L
	Se	82	48.432	**2.000**	0.09	4.3	ug/L
	Sr	88	19065.934	**0.200**	0.15	73.5	ug/L
	Mo	98	727.637	**1.000**	0.04	4.3	ug/L
>	Rh	103	157242.503				ug/L
	Ag	107	1624.172	**1.000**	0.02	2.1	ug/L
	Cd	111	417.534	**1.000**	0.13	13.0	ug/L
	Cd	114	906.680	**1.000**	0.07	7.2	ug/L
>	In	115	242202.962				ug/L
	Sn	120	1877.537	**1.000**	0.04	3.9	ug/L
	Sb	121	2809.846	**2.000**	0.01	0.6	ug/L
	Ba	137	745.683	**1.000**	0.04	3.8	ug/L
	Ba	138	4638.713	**1.000**	0.04	3.8	ug/L
>	Tb	159	321642.880				ug/L
	Tl	205	4832.852	**1.000**	0.02	2.3	ug/L
	Pb	208	3669.542	**1.000**	0.01	0.7	ug/L
	Hg	200	69.282	**0.200**	0.05	25.6	ug/L
	Hg	201	40.667	**0.200**	0.03	17.1	ug/L
>	Bi	209	272818.296				ug/L
	U	238	9896.029	**1.000**	0.01	1.4	ug/L
	C	13	340.008				ug/L
	W	184	7.999				ug/L
	Pd	106	-0.235				ug/L
	Kr	83	7.833				ug/L
	Na	23	92581.055	**100.000**	4.11	4.1	ug/L
	Mg	24	59220.462	**100.000**	1.71	1.7	ug/L

K	39	144939.497	**100.000**	1.65	1.6	ug/L
Ca	44	3760.923	**100.000**	8.62	8.6	ug/L
Ti	47	13.333				ug/L
Sc-1	45	164828.278				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000227	0.000	1.000000	Linear Thru Zero
B	11.009	0.000364	0.000	1.000000	Linear Thru Zero
Al	26.982	0.005199	0.000	1.000000	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008434	0.000	1.000000	Linear Thru Zero
Cr	51.941	0.007956	0.000	1.000000	Linear Thru Zero
Cr	52.941	0.001616	0.000	1.000000	Linear Thru Zero
Mn	54.938	0.012944	0.000	1.000000	Linear Thru Zero
Co	58.933	0.007668	0.000	1.000000	Linear Thru Zero
Ni	59.933	0.003181	0.000	1.000000	Linear Thru Zero
Cu	62.930	0.004813	0.000	1.000000	Linear Thru Zero
Cu	64.928	0.002078	0.000	1.000000	Linear Thru Zero
Zn	65.926	0.001340	0.000	1.000000	Linear Thru Zero
Zn	67.925	0.000972	0.000	1.000000	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.000997	0.000	1.000000	Linear Thru Zero
Se	76.920	0.000204	0.000	1.000000	Linear Thru Zero
Se	81.917	0.000147	0.000	1.000000	Linear Thru Zero
Sr	87.906	0.022576	0.000	1.000000	Linear Thru Zero
Mo	97.906	0.004513	0.000	1.000000	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.010293	0.000	1.000000	Linear Thru Zero
Cd	110.904	0.001717	0.000	1.000000	Linear Thru Zero
Cd	113.904	0.003706	0.000	1.000000	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006960	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.005279	0.000	1.000000	Linear Thru Zero
Ba	136.905	0.002243	0.000	1.000000	Linear Thru Zero
Ba	137.905	0.013990	0.000	1.000000	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014841	0.000	1.000000	Linear Thru Zero
Pb	207.977	0.011336	0.000	1.000000	Linear Thru Zero
Hg	199.968	0.001021	0.000	1.000000	Linear Thru Zero
Hg	200.970	0.000672	0.000	1.000000	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.036161	0.000	1.000000	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	905.941315	0.000	1.000000	Linear Thru Zero
Mg	23.985	589.671241	0.000	1.000000	Linear Thru Zero
K	38.964	887.683379	0.000	1.000000	Linear Thru Zero
Ca	43.956	32.742402	0.000	1.000000	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 2

Sample Date/Time: Tuesday, July 25, 2017 23:25:57
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.392
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 3
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	299.339	**9.979**	0.80	8.1	ug/L
	B	11	5925.621	**99.842**	5.02	5.0	ug/L
	Al	27	22032.196	**24.931**	0.14	0.6	ug/L
>	Sc	45	160261.910				ug/L
	V	51	14290.314	**9.999**	0.27	2.7	ug/L
	Cr	52	13923.932	**9.930**	0.23	2.4	ug/L
	Cr	53	13772.658	**8.573**	3.70	43.1	ug/L
	Mn	55	49336.413	**24.998**	0.29	1.2	ug/L
	Co	59	12170.625	**9.999**	0.06	0.6	ug/L
	Ni	60	6325.935	**24.959**	0.86	3.5	ug/L
	Cu	63	12864.416	**24.976**	0.35	1.4	ug/L
	Cu	65	5862.233	**24.985**	0.33	1.3	ug/L
	Zn	66	3864.304	**24.914**	0.51	2.0	ug/L
	Zn	68	2686.803	**24.866**	0.60	2.4	ug/L
>	Ge	72	123207.721				ug/L
	As	75	3680.255	**25.023**	1.03	4.1	ug/L
	Se	77	1072.575	**24.815**	2.49	10.0	ug/L
	Se	82	501.416	**25.012**	0.45	1.8	ug/L
	Sr	88	23945.553	**1.999**	0.11	5.5	ug/L
	Mo	98	6874.039	**9.997**	0.16	1.6	ug/L
>	Rh	103	156807.285				ug/L
	Ag	107	15444.824	**9.996**	0.12	1.2	ug/L
	Cd	111	3739.966	**9.989**	0.29	2.9	ug/L
	Cd	114	9245.553	**10.003**	0.08	0.8	ug/L
>	In	115	241082.241				ug/L
	Sn	120	17126.344	**10.001**	0.11	1.1	ug/L
	Sb	121	12523.520	**9.986**	0.18	1.8	ug/L
	Ba	137	6831.606	**9.992**	0.26	2.6	ug/L
	Ba	138	42894.503	**9.993**	0.09	0.9	ug/L
>	Tb	159	326670.594				ug/L
	Tl	205	46498.800	**9.996**	0.04	0.4	ug/L
	Pb	208	87312.591	**24.998**	0.39	1.5	ug/L
	Hg	200	467.309	**1.996**	0.14	6.8	ug/L
	Hg	201	285.339	**1.994**	0.07	3.7	ug/L
>	Bi	209	271698.050				ug/L
	U	238	95814.792	**9.997**	0.03	0.3	ug/L
	C	13	366.675				ug/L
	W	184	5.995				ug/L
	Pd	106	-64.336				ug/L
	Kr	83	11.667				ug/L
	Na	23	785830.376	**998.460**	42.55	4.3	ug/L
	Mg	24	529591.124	**998.873**	60.93	6.1	ug/L

K	39	921065.241	**999.739**	11.08	1.1	ug/L
Ca	44	30738.002	**999.185**	33.59	3.4	ug/L
Ti	47	36.667				ug/L
Sc-1	45	160261.910				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000187	0.000	0.999775	Linear Thru Zero
B	11.009	0.000350	0.000	0.999969	Linear Thru Zero
Al	26.982	0.005177	0.000	0.999994	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008423	0.000	1.000000	Linear Thru Zero
Cr	51.941	0.007383	0.000	0.999729	Linear Thru Zero
Cr	52.941	0.000625	0.000	0.903028	Linear Thru Zero
Mn	54.938	0.012225	0.000	0.999997	Linear Thru Zero
Co	58.933	0.007586	0.000	0.999999	Linear Thru Zero
Ni	59.933	0.001576	0.000	0.999170	Linear Thru Zero
Cu	62.930	0.004177	0.000	0.999926	Linear Thru Zero
Cu	64.928	0.001901	0.000	0.999972	Linear Thru Zero
Zn	65.926	0.001234	0.000	0.999853	Linear Thru Zero
Zn	67.925	0.000857	0.000	0.999643	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001164	0.000	0.999934	Linear Thru Zero
Se	76.920	0.000094	0.000	0.995744	Linear Thru Zero
Se	81.917	0.000159	0.000	0.999981	Linear Thru Zero
Sr	87.906	0.021996	0.000	0.999997	Linear Thru Zero
Mo	97.906	0.004375	0.000	0.999995	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009852	0.000	0.999990	Linear Thru Zero
Cd	110.904	0.001552	0.000	0.999944	Linear Thru Zero
Cd	113.904	0.003830	0.000	0.999995	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007025	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.005098	0.000	0.999975	Linear Thru Zero
Ba	136.905	0.002086	0.000	0.999972	Linear Thru Zero
Ba	137.905	0.013097	0.000	0.999977	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014222	0.000	0.999991	Linear Thru Zero
Pb	207.977	0.010688	0.000	0.999997	Linear Thru Zero
Hg	199.968	0.000837	0.000	0.999756	Linear Thru Zero
Hg	200.970	0.000519	0.000	0.999568	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035264	0.000	0.999997	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	785.052342	0.000	0.999881	Linear Thru Zero
Mg	23.985	529.935147	0.000	0.999936	Linear Thru Zero
K	38.964	865.119718	0.000	0.999997	Linear Thru Zero
Ca	43.956	30.275984	0.000	0.999967	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 3

Sample Date/Time: Tuesday, July 25, 2017 23:29:25
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.392
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 4
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	636.360	**20.195**	0.53	2.6	ug/L
	B	11	12074.137	**201.421**	4.01	2.0	ug/L
	Al	27	44250.247	**50.328**	0.57	1.1	ug/L
>	Sc	45	162000.363				ug/L
	V	51	26890.421	**19.805**	0.41	2.1	ug/L
	Cr	52	25661.735	**19.917**	0.21	1.1	ug/L
	Cr	53	15120.015	**20.081**	3.18	15.9	ug/L
	Mn	55	99860.745	**50.047**	0.25	0.5	ug/L
	Co	59	24565.505	**19.996**	0.30	1.5	ug/L
	Ni	60	12476.110	**49.751**	0.21	0.4	ug/L
	Cu	63	26001.213	**50.058**	0.41	0.8	ug/L
	Cu	65	11621.106	**49.872**	0.45	0.9	ug/L
	Zn	66	7482.971	**49.686**	1.03	2.1	ug/L
	Zn	68	5280.145	**49.839**	0.99	2.0	ug/L
>	Ge	72	123712.135				ug/L
	As	75	7342.586	**50.072**	0.44	0.9	ug/L
	Se	77	1375.123	**50.084**	4.52	9.0	ug/L
	Se	82	995.623	**50.015**	1.66	3.3	ug/L
	Sr	88	29492.098	**4.000**	0.11	2.8	ug/L
	Mo	98	13842.748	**20.006**	0.05	0.3	ug/L
>	Rh	103	157773.083				ug/L
	Ag	107	30976.245	**19.985**	0.25	1.3	ug/L
	Cd	111	7707.986	**20.067**	0.71	3.5	ug/L
	Cd	114	18685.279	**19.993**	0.21	1.1	ug/L
>	In	115	244202.385				ug/L
	Sn	120	33706.311	**19.905**	0.21	1.0	ug/L
	Sb	121	24675.522	**19.919**	0.27	1.3	ug/L
	Ba	137	13664.697	**20.002**	0.38	1.9	ug/L
	Ba	138	87011.303	**20.059**	0.46	2.3	ug/L
>	Tb	159	326841.923				ug/L
	Tl	205	94377.772	**20.058**	0.20	1.0	ug/L
	Pb	208	175894.638	**50.070**	0.75	1.5	ug/L
	Hg	200	985.982	**4.053**	0.16	4.0	ug/L
	Hg	201	516.017	**3.919**	0.14	3.6	ug/L
>	Bi	209	271840.273				ug/L
	U	238	193318.783	**20.033**	0.14	0.7	ug/L
	C	13	326.674				ug/L
	W	184	12.666				ug/L
	Pd	106	-67.230				ug/L
	Kr	83	12.667				ug/L
	Na	23	1660849.598	**2021.808**	49.19	2.4	ug/L
	Mg	24	1104691.717	**2016.404**	31.06	1.5	ug/L

K	39	1774638.319	**1997.242**	26.00	1.3	ug/L
Ca	44	61202.540	**2001.089**	28.07	1.4	ug/L
Ti	47	50.000				ug/L
Sc-1	45	162000.363				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000194	0.000	0.999770	Linear Thru Zero
B	11.009	0.000360	0.000	0.999897	Linear Thru Zero
Al	26.982	0.005261	0.000	0.999946	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008132	0.000	0.999826	Linear Thru Zero
Cr	51.941	0.007272	0.000	0.999909	Linear Thru Zero
Cr	52.941	0.000635	0.000	0.977257	Linear Thru Zero
Mn	54.938	0.012271	0.000	0.999998	Linear Thru Zero
Co	58.933	0.007579	0.000	1.000000	Linear Thru Zero
Ni	59.933	0.001545	0.000	0.999777	Linear Thru Zero
Cu	62.930	0.004196	0.000	0.999983	Linear Thru Zero
Cu	64.928	0.001882	0.000	0.999981	Linear Thru Zero
Zn	65.926	0.001205	0.000	0.999892	Linear Thru Zero
Zn	67.925	0.000847	0.000	0.999905	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999983	Linear Thru Zero
Se	76.920	0.000095	0.000	0.999146	Linear Thru Zero
Se	81.917	0.000159	0.000	0.999996	Linear Thru Zero
Sr	87.906	0.022002	0.000	0.999999	Linear Thru Zero
Mo	97.906	0.004380	0.000	0.999999	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009823	0.000	0.999997	Linear Thru Zero
Cd	110.904	0.001573	0.000	0.999967	Linear Thru Zero
Cd	113.904	0.003825	0.000	0.999999	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006895	0.000	0.999955	Linear Thru Zero
Sb	120.904	0.005020	0.000	0.999963	Linear Thru Zero
Ba	136.905	0.002087	0.000	0.999994	Linear Thru Zero
Ba	137.905	0.013252	0.000	0.999978	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014388	0.000	0.999981	Linear Thru Zero
Pb	207.977	0.010748	0.000	0.999996	Linear Thru Zero
Hg	199.968	0.000883	0.000	0.999611	Linear Thru Zero
Hg	200.970	0.000481	0.000	0.999078	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035494	0.000	0.999994	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	820.484673	0.000	0.999743	Linear Thru Zero
Mg	23.985	547.726798	0.000	0.999855	Linear Thru Zero
K	38.964	860.420206	0.000	0.999996	Linear Thru Zero
Ca	43.956	30.341409	0.000	0.999993	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 4

Sample Date/Time: Tuesday, July 25, 2017 23:32:52
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.392
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 5
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1211.762	**39.403**	0.89	2.3	ug/L
	B	11	24188.703	**399.856**	6.27	1.6	ug/L
	Al	27	82614.297	**98.113**	0.06	0.1	ug/L
>	Sc	45	165778.073				ug/L
	V	51	53946.981	**39.857**	0.39	1.0	ug/L
	Cr	52	48425.809	**39.581**	0.95	2.4	ug/L
	Cr	53	18362.725	**41.615**	4.94	11.9	ug/L
	Mn	55	194882.055	**98.931**	2.16	2.2	ug/L
	Co	59	47704.473	**39.499**	1.03	2.6	ug/L
	Ni	60	23970.305	**98.376**	1.41	1.4	ug/L
	Cu	63	49925.507	**99.171**	0.42	0.4	ug/L
	Cu	65	22646.957	**99.443**	0.79	0.8	ug/L
	Zn	66	14343.698	**99.050**	0.48	0.5	ug/L
	Zn	68	10106.639	**99.106**	1.59	1.6	ug/L
>	Ge	72	123109.798				ug/L
	As	75	13987.393	**99.120**	0.69	0.7	ug/L
	Se	77	2042.271	**101.712**	3.74	3.7	ug/L
	Se	82	1900.475	**99.146**	1.49	1.5	ug/L
	Sr	88	40079.820	**7.991**	0.24	3.0	ug/L
	Mo	98	26995.379	**39.796**	0.17	0.4	ug/L
>	Rh	103	157292.728				ug/L
	Ag	107	59262.114	**39.594**	0.16	0.4	ug/L
	Cd	111	14766.254	**39.641**	1.07	2.7	ug/L
	Cd	114	35659.884	**39.572**	0.84	2.1	ug/L
>	In	115	243558.477				ug/L
	Sn	120	66382.603	**39.859**	0.50	1.3	ug/L
	Sb	121	45262.818	**39.186**	0.60	1.5	ug/L
	Ba	137	26659.645	**39.851**	0.18	0.4	ug/L
	Ba	138	169150.966	**39.843**	0.30	0.8	ug/L
>	Tb	159	324133.161				ug/L
	Tl	205	184198.012	**39.876**	0.18	0.5	ug/L
	Pb	208	344356.403	**99.724**	1.23	1.2	ug/L
	Hg	200	1860.811	**7.938**	0.13	1.7	ug/L
	Hg	201	1114.081	**8.126**	0.54	6.6	ug/L
>	Bi	209	270102.321				ug/L
	U	238	384052.011	**40.014**	0.28	0.7	ug/L
	C	13	346.675				ug/L
	W	184	12.666				ug/L
	Pd	106	-103.106				ug/L
	Kr	83	11.000				ug/L
	Na	23	3379683.730	**4027.225**	127.76	3.2	ug/L
	Mg	24	2169151.670	**3990.344**	103.10	2.6	ug/L

K	39	3396205.008	**3971.181**	24.09	0.6	ug/L
Ca	44	118397.554	**3972.247**	16.91	0.4	ug/L
Ti	47	36.667				ug/L
Sc-1	45	165778.073				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000186	0.000	0.999584	Linear Thru Zero
B	11.009	0.000360	0.000	0.999975	Linear Thru Zero
Al	26.982	0.004993	0.000	0.999480	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008042	0.000	0.999937	Linear Thru Zero
Cr	51.941	0.007041	0.000	0.999804	Linear Thru Zero
Cr	52.941	0.000727	0.000	0.993176	Linear Thru Zero
Mn	54.938	0.011865	0.000	0.999817	Linear Thru Zero
Co	58.933	0.007287	0.000	0.999749	Linear Thru Zero
Ni	59.933	0.001469	0.000	0.999520	Linear Thru Zero
Cu	62.930	0.004088	0.000	0.999886	Linear Thru Zero
Cu	64.928	0.001849	0.000	0.999946	Linear Thru Zero
Zn	65.926	0.001170	0.000	0.999830	Linear Thru Zero
Zn	67.925	0.000823	0.000	0.999849	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001139	0.000	0.999872	Linear Thru Zero
Se	76.920	0.000101	0.000	0.999350	Linear Thru Zero
Se	81.917	0.000155	0.000	0.999882	Linear Thru Zero
Sr	87.906	0.021923	0.000	0.999998	Linear Thru Zero
Mo	97.906	0.004310	0.000	0.999958	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009515	0.000	0.999834	Linear Thru Zero
Cd	110.904	0.001529	0.000	0.999863	Linear Thru Zero
Cd	113.904	0.003699	0.000	0.999817	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006818	0.000	0.999969	Linear Thru Zero
Sb	120.904	0.004716	0.000	0.999334	Linear Thru Zero
Ba	136.905	0.002062	0.000	0.999977	Linear Thru Zero
Ba	137.905	0.013088	0.000	0.999970	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014247	0.000	0.999980	Linear Thru Zero
Pb	207.977	0.010654	0.000	0.999987	Linear Thru Zero
Hg	199.968	0.000862	0.000	0.999807	Linear Thru Zero
Hg	200.970	0.000506	0.000	0.999407	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035534	0.000	0.999998	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	838.715632	0.000	0.999867	Linear Thru Zero
Mg	23.985	543.536630	0.000	0.999956	Linear Thru Zero
K	38.964	841.068093	0.000	0.999916	Linear Thru Zero
Ca	43.956	29.683672	0.000	0.999921	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 5

Sample Date/Time: Tuesday, July 25, 2017 23:36:20
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.392
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 6
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	3126.637	**100.710**	4.05	4.0	ug/L
	B	11	58600.503	**1000.521**	28.31	2.8	ug/L
	Al	27	197532.189	**248.760**	2.16	0.9	ug/L
>	Sc	45	161536.295				ug/L
	V	51	131544.274	**100.114**	0.26	0.3	ug/L
	Cr	52	117132.101	**100.189**	1.67	1.7	ug/L
	Cr	53	25196.204	**100.640**	3.63	3.6	ug/L
	Mn	55	488610.756	**250.821**	3.30	1.3	ug/L
	Co	59	119284.596	**100.233**	1.63	1.6	ug/L
	Ni	60	59340.725	**250.018**	3.55	1.4	ug/L
	Cu	63	121280.467	**249.445**	2.74	1.1	ug/L
	Cu	65	54687.455	**249.302**	1.11	0.4	ug/L
	Zn	66	35353.080	**250.157**	1.72	0.7	ug/L
	Zn	68	24940.061	**250.249**	1.41	0.6	ug/L
>	Ge	72	120194.601				ug/L
	As	75	35497.887	**251.462**	2.61	1.0	ug/L
	Se	77	3930.672	**251.990**	4.34	1.7	ug/L
	Se	82	4809.732	**251.365**	3.05	1.2	ug/L
	Sr	88	71175.239	**20.026**	0.34	1.7	ug/L
	Mo	98	68563.704	**100.909**	1.15	1.1	ug/L
>	Rh	103	150800.733				ug/L
	Ag	107	146066.623	**100.308**	0.53	0.5	ug/L
	Cd	111	36768.464	**100.273**	1.96	2.0	ug/L
	Cd	114	89663.724	**100.409**	1.43	1.4	ug/L
>	In	115	236723.460				ug/L
	Sn	120	167488.417	**100.618**	0.95	0.9	ug/L
	Sb	121	121628.159	**101.416**	1.51	1.5	ug/L
	Ba	137	67484.413	**100.358**	0.30	0.3	ug/L
	Ba	138	422174.179	**100.111**	1.55	1.5	ug/L
>	Tb	159	320416.193				ug/L
	Tl	205	465285.973	**100.326**	0.63	0.6	ug/L
	Pb	208	861666.331	**250.415**	1.87	0.7	ug/L
	Hg	200	4656.649	**20.112**	0.36	1.8	ug/L
	Hg	201	2684.468	**20.052**	0.56	2.8	ug/L
>	Bi	209	260885.746				ug/L
	U	238	971623.638	**100.803**	0.74	0.7	ug/L
	C	13	446.680				ug/L
	W	184	14.665				ug/L
	Pd	106	-396.165				ug/L
	Kr	83	13.000				ug/L
	Na	23	8085529.154	**9935.211**	263.01	2.6	ug/L
	Mg	24	5135847.214	**9899.671**	220.33	2.2	ug/L

K	39	8315348.857	**9968.253**	90.94	0.9	ug/L
Ca	44	291673.739	**9966.427**	71.35	0.7	ug/L
Ti	47	90.001				ug/L
Sc-1	45	161536.295				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000192	0.000	0.999813	Linear Thru Zero
B	11.009	0.000361	0.000	0.999995	Linear Thru Zero
Al	26.982	0.004882	0.000	0.999846	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008085	0.000	0.999986	Linear Thru Zero
Cr	51.941	0.007104	0.000	0.999958	Linear Thru Zero
Cr	52.941	0.000750	0.000	0.998776	Linear Thru Zero
Mn	54.938	0.012054	0.000	0.999943	Linear Thru Zero
Co	58.933	0.007369	0.000	0.999945	Linear Thru Zero
Ni	59.933	0.001469	0.000	0.999917	Linear Thru Zero
Cu	62.930	0.004045	0.000	0.999968	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999972	Linear Thru Zero
Zn	65.926	0.001173	0.000	0.999970	Linear Thru Zero
Zn	67.925	0.000827	0.000	0.999972	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001172	0.000	0.999898	Linear Thru Zero
Se	76.920	0.000105	0.000	0.999745	Linear Thru Zero
Se	81.917	0.000159	0.000	0.999910	Linear Thru Zero
Sr	87.906	0.022062	0.000	0.999995	Linear Thru Zero
Mo	97.906	0.004505	0.000	0.999797	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009656	0.000	0.999949	Linear Thru Zero
Cd	110.904	0.001549	0.000	0.999959	Linear Thru Zero
Cd	113.904	0.003772	0.000	0.999930	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007024	0.000	0.999904	Linear Thru Zero
Sb	120.904	0.005056	0.000	0.999423	Linear Thru Zero
Ba	136.905	0.002098	0.000	0.999966	Linear Thru Zero
Ba	137.905	0.013158	0.000	0.999992	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014472	0.000	0.999971	Linear Thru Zero
Pb	207.977	0.010739	0.000	0.999991	Linear Thru Zero
Hg	199.968	0.000885	0.000	0.999894	Linear Thru Zero
Hg	200.970	0.000512	0.000	0.999883	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.036946	0.000	0.999846	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	813.625632	0.000	0.999876	Linear Thru Zero
Mg	23.985	518.764097	0.000	0.999752	Linear Thru Zero
K	38.964	828.548199	0.000	0.999961	Linear Thru Zero
Ca	43.956	29.216796	0.000	0.999959	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Blank

Sample Date/Time: Wednesday, July 26, 2017 00:28:16
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1.000				ug/L
	B	11	546.686				ug/L
	Al	27	1368.789				ug/L
>	Sc	45	168399.709				ug/L
	V	51	877.247				ug/L
	Cr	52	2116.958				ug/L
	Cr	53	12950.727				ug/L
	Mn	55	353.342				ug/L
	Co	59	20.000				ug/L
	Ni	60	33.333				ug/L
	Cu	63	28.000				ug/L
	Cu	65	16.333				ug/L
	Zn	66	73.334				ug/L
	Zn	68	81.000				ug/L
>	Ge	72	132625.556				ug/L
	As	75	15.911				ug/L
	Se	77	776.373				ug/L
	Se	82	14.584				ug/L
	Sr	88	20380.987				ug/L
	Mo	98	26.379				ug/L
>	Rh	103	164160.270				ug/L
	Ag	107	13.333				ug/L
	Cd	111	1.382				ug/L
	Cd	114	8.343				ug/L
>	In	115	248313.574				ug/L
	Sn	120	203.952				ug/L
	Sb	121	586.689				ug/L
	Ba	137	17.645				ug/L
	Ba	138	131.313				ug/L
>	Tb	159	339698.383				ug/L
	Tl	205	76.000				ug/L
	Pb	208	22.333				ug/L
	Hg	200	20.641				ug/L
	Hg	201	9.333				ug/L
>	Bi	209	281706.826				ug/L
	U	238	41.000				ug/L
	C	13	780.040				ug/L
	W	184	3.999				ug/L
	Pd	106	1.805				ug/L
	Kr	83	9.500				ug/L
	Na	23	2860.532				ug/L
	Mg	24	273.338				ug/L

K	39	59079.361		ug/L
Ca	44	530.019		ug/L
Ti	47	23.333		ug/L
Sc-1	45	168399.709		ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000192	0.000	0.999813	Linear Thru Zero
B	11.009	0.000361	0.000	0.999995	Linear Thru Zero
Al	26.982	0.004882	0.000	0.999846	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008085	0.000	0.999986	Linear Thru Zero
Cr	51.941	0.007104	0.000	0.999958	Linear Thru Zero
Cr	52.941	0.000750	0.000	0.998776	Linear Thru Zero
Mn	54.938	0.012054	0.000	0.999943	Linear Thru Zero
Co	58.933	0.007369	0.000	0.999945	Linear Thru Zero
Ni	59.933	0.001469	0.000	0.999917	Linear Thru Zero
Cu	62.930	0.004045	0.000	0.999968	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999972	Linear Thru Zero
Zn	65.926	0.001173	0.000	0.999970	Linear Thru Zero
Zn	67.925	0.000827	0.000	0.999972	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001172	0.000	0.999898	Linear Thru Zero
Se	76.920	0.000105	0.000	0.999745	Linear Thru Zero
Se	81.917	0.000159	0.000	0.999910	Linear Thru Zero
Sr	87.906	0.022062	0.000	0.999995	Linear Thru Zero
Mo	97.906	0.004505	0.000	0.999797	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009656	0.000	0.999949	Linear Thru Zero
Cd	110.904	0.001549	0.000	0.999959	Linear Thru Zero
Cd	113.904	0.003772	0.000	0.999930	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007024	0.000	0.999904	Linear Thru Zero
Sb	120.904	0.005056	0.000	0.999423	Linear Thru Zero
Ba	136.905	0.002098	0.000	0.999966	Linear Thru Zero
Ba	137.905	0.013158	0.000	0.999992	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014472	0.000	0.999971	Linear Thru Zero
Pb	207.977	0.010739	0.000	0.999991	Linear Thru Zero
Hg	199.968	0.000885	0.000	0.999894	Linear Thru Zero
Hg	200.970	0.000512	0.000	0.999883	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.036946	0.000	0.999846	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	813.625632	0.000	0.999876	Linear Thru Zero
Mg	23.985	518.764097	0.000	0.999752	Linear Thru Zero
K	38.964	828.548199	0.000	0.999961	Linear Thru Zero
Ca	43.956	29.216796	0.000	0.999959	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 1

Sample Date/Time: Wednesday, July 26, 2017 00:31:44
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 2
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	36.667	**1.000**	0.25	24.9	ug/L
	B	11	1862.892	**20.000**	0.71	3.5	ug/L
	Al	27	19951.211	**20.000**	0.49	2.5	ug/L
>	Sc	45	170261.010				ug/L
	V	51	5630.660	**3.000**	0.18	5.9	ug/L
	Cr	52	6039.204	**3.000**	0.02	0.6	ug/L
	Cr	53	13953.646	**3.000**	0.57	19.0	ug/L
	Mn	55	2415.713	**1.000**	0.05	5.3	ug/L
	Co	59	1320.780	**1.000**	0.02	2.1	ug/L
	Ni	60	588.022	**1.000**	0.02	2.5	ug/L
	Cu	63	1218.764	**2.000**	0.13	6.3	ug/L
	Cu	65	564.354	**2.000**	0.05	2.4	ug/L
	Zn	66	936.057	**5.000**	0.15	3.1	ug/L
	Zn	68	692.364	**5.000**	0.12	2.4	ug/L
>	Ge	72	132653.081				ug/L
	As	75	350.081	**2.000**	0.20	10.1	ug/L
	Se	77	826.711	**2.000**	0.67	33.6	ug/L
	Se	82	59.090	**2.000**	0.52	25.8	ug/L
	Sr	88	21052.778	**0.200**	0.09	47.2	ug/L
	Mo	98	735.524	**1.000**	0.07	7.2	ug/L
>	Rh	103	164624.506				ug/L
	Ag	107	1665.514	**1.000**	0.06	5.5	ug/L
	Cd	111	427.133	**1.000**	0.03	3.1	ug/L
	Cd	114	938.800	**1.000**	0.03	2.7	ug/L
>	In	115	249613.181				ug/L
	Sn	120	1934.227	**1.000**	0.09	9.4	ug/L
	Sb	121	3015.258	**2.000**	0.02	1.2	ug/L
	Ba	137	767.999	**1.000**	0.05	5.3	ug/L
	Ba	138	4872.171	**1.000**	0.02	1.5	ug/L
>	Tb	159	340690.610				ug/L
	Tl	205	5029.310	**1.000**	0.00	0.1	ug/L
	Pb	208	3703.892	**1.000**	0.01	1.5	ug/L
	Hg	200	79.274	**0.200**	0.05	27.1	ug/L
	Hg	201	58.667	**0.200**	0.03	14.8	ug/L
>	Bi	209	281293.873				ug/L
	U	238	10178.064	**1.000**	0.02	1.5	ug/L
	C	13	660.029				ug/L
	W	184	9.333				ug/L
	Pd	106	-0.806				ug/L
	Kr	83	8.833				ug/L
	Na	23	99473.031	**100.000**	4.08	4.1	ug/L
	Mg	24	62288.046	**100.000**	3.57	3.6	ug/L

K	39	149397.002	**100.000**	2.35	2.4	ug/L
Ca	44	3600.847	**100.000**	9.94	9.9	ug/L
Ti	47	33.333				ug/L
Sc-1	45	170261.010				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000210	0.000	1.000000	Linear Thru Zero
B	11.009	0.000385	0.000	1.000000	Linear Thru Zero
Al	26.982	0.005450	0.000	1.000000	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.009281	0.000	1.000000	Linear Thru Zero
Cr	51.941	0.007632	0.000	1.000000	Linear Thru Zero
Cr	52.941	0.001688	0.000	1.000000	Linear Thru Zero
Mn	54.938	0.012088	0.000	1.000000	Linear Thru Zero
Co	58.933	0.007639	0.000	1.000000	Linear Thru Zero
Ni	59.933	0.003256	0.000	1.000000	Linear Thru Zero
Cu	62.930	0.004487	0.000	1.000000	Linear Thru Zero
Cu	64.928	0.002065	0.000	1.000000	Linear Thru Zero
Zn	65.926	0.001301	0.000	1.000000	Linear Thru Zero
Zn	67.925	0.000922	0.000	1.000000	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001258	0.000	1.000000	Linear Thru Zero
Se	76.920	0.000189	0.000	1.000000	Linear Thru Zero
Se	81.917	0.000167	0.000	1.000000	Linear Thru Zero
Sr	87.906	0.025251	0.000	1.000000	Linear Thru Zero
Mo	97.906	0.004304	0.000	1.000000	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.010031	0.000	1.000000	Linear Thru Zero
Cd	110.904	0.001705	0.000	1.000000	Linear Thru Zero
Cd	113.904	0.003728	0.000	1.000000	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006933	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.004859	0.000	1.000000	Linear Thru Zero
Ba	136.905	0.002202	0.000	1.000000	Linear Thru Zero
Ba	137.905	0.013913	0.000	1.000000	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014539	0.000	1.000000	Linear Thru Zero
Pb	207.977	0.010805	0.000	1.000000	Linear Thru Zero
Hg	199.968	0.001041	0.000	1.000000	Linear Thru Zero
Hg	200.970	0.000878	0.000	1.000000	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.036038	0.000	1.000000	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	966.124986	0.000	1.000000	Linear Thru Zero
Mg	23.985	620.147082	0.000	1.000000	Linear Thru Zero
K	38.964	903.176410	0.000	1.000000	Linear Thru Zero
Ca	43.956	30.708280	0.000	1.000000	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 2

Sample Date/Time: Wednesday, July 26, 2017 00:35:11
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 3
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	348.008	**9.996**	0.29	2.9	ug/L
	B	11	7021.213	**99.895**	4.54	4.5	ug/L
	Al	27	25016.063	**25.048**	1.04	4.1	ug/L
>	Sc	45	172338.699				ug/L
	V	51	14964.914	**9.887**	0.41	4.1	ug/L
	Cr	52	14413.663	**9.939**	0.09	0.9	ug/L
	Cr	53	14151.175	**8.444**	1.81	21.4	ug/L
	Mn	55	52644.245	**25.000**	0.20	0.8	ug/L
	Co	59	12850.730	**9.997**	0.07	0.7	ug/L
	Ni	60	6624.853	**24.955**	0.28	1.1	ug/L
	Cu	63	13768.651	**24.986**	0.20	0.8	ug/L
	Cu	65	6213.177	**24.983**	0.66	2.7	ug/L
	Zn	66	4208.151	**24.955**	0.61	2.4	ug/L
	Zn	68	2987.247	**24.947**	0.62	2.5	ug/L
>	Ge	72	133053.783				ug/L
	As	75	3918.356	**24.988**	0.25	1.0	ug/L
	Se	77	1133.584	**24.878**	0.33	1.3	ug/L
	Se	82	547.278	**24.993**	0.85	3.4	ug/L
	Sr	88	26205.236	**1.997**	0.09	4.6	ug/L
	Mo	98	7107.886	**10.001**	0.25	2.5	ug/L
>	Rh	103	162984.261				ug/L
	Ag	107	15741.425	**9.996**	0.12	1.2	ug/L
	Cd	111	3878.267	**9.989**	0.17	1.7	ug/L
	Cd	114	9452.669	**10.001**	0.13	1.3	ug/L
>	In	115	251645.203				ug/L
	Sn	120	17594.719	**10.000**	0.02	0.2	ug/L
	Sb	121	12708.494	**9.996**	0.09	0.9	ug/L
	Ba	137	7030.790	**9.993**	0.29	2.9	ug/L
	Ba	138	44251.496	**9.993**	0.10	1.0	ug/L
>	Tb	159	341091.315				ug/L
	Tl	205	48589.017	**9.998**	0.11	1.1	ug/L
	Pb	208	90502.709	**24.999**	0.05	0.2	ug/L
	Hg	200	496.615	**1.995**	0.17	8.7	ug/L
	Hg	201	288.672	**1.985**	0.18	9.0	ug/L
>	Bi	209	283121.605				ug/L
	U	238	98999.351	**9.997**	0.06	0.6	ug/L
	C	13	693.366				ug/L
	W	184	10.666				ug/L
	Pd	106	-37.986				ug/L
	Kr	83	8.667				ug/L
	Na	23	907132.305	**999.323**	70.79	7.1	ug/L
	Mg	24	596915.701	**999.610**	52.11	5.2	ug/L

K	39	907401.024	**999.360**	9.49	0.9	ug/L
Ca	44	30875.199	**999.882**	26.15	2.6	ug/L
Ti	47	13.333				ug/L
Sc-1	45	172338.699				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000201	0.000	0.999990	Linear Thru Zero
B	11.009	0.000375	0.000	0.999986	Linear Thru Zero
Al	26.982	0.005467	0.000	0.999997	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008250	0.000	0.999297	Linear Thru Zero
Cr	51.941	0.007150	0.000	0.999795	Linear Thru Zero
Cr	52.941	0.000618	0.000	0.887666	Linear Thru Zero
Mn	54.938	0.012136	0.000	1.000000	Linear Thru Zero
Co	58.933	0.007447	0.000	0.999997	Linear Thru Zero
Ni	59.933	0.001532	0.000	0.998990	Linear Thru Zero
Cu	62.930	0.004133	0.000	0.999977	Linear Thru Zero
Cu	64.928	0.001864	0.000	0.999963	Linear Thru Zero
Zn	65.926	0.001245	0.000	0.999960	Linear Thru Zero
Zn	67.925	0.000875	0.000	0.999943	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001174	0.000	0.999983	Linear Thru Zero
Se	76.920	0.000107	0.000	0.998160	Linear Thru Zero
Se	81.917	0.000160	0.000	0.999994	Linear Thru Zero
Sr	87.906	0.021681	0.000	0.999864	Linear Thru Zero
Mo	97.906	0.004346	0.000	1.000000	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009655	0.000	0.999992	Linear Thru Zero
Cd	110.904	0.001542	0.000	0.999944	Linear Thru Zero
Cd	113.904	0.003753	0.000	1.000000	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006910	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.004815	0.000	0.999998	Linear Thru Zero
Ba	136.905	0.002057	0.000	0.999975	Linear Thru Zero
Ba	137.905	0.012946	0.000	0.999972	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014226	0.000	0.999998	Linear Thru Zero
Pb	207.977	0.010611	0.000	1.000000	Linear Thru Zero
Hg	199.968	0.000843	0.000	0.999722	Linear Thru Zero
Hg	200.970	0.000497	0.000	0.997075	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.034963	0.000	0.999995	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	904.884181	0.000	0.999977	Linear Thru Zero
Mg	23.985	596.875083	0.000	0.999992	Linear Thru Zero
K	38.964	848.864779	0.000	0.999980	Linear Thru Zero
Ca	43.956	30.348776	0.000	0.999999	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 3

Sample Date/Time: Wednesday, July 26, 2017 00:38:39
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 4
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	697.698	**20.048**	1.10	5.5	ug/L
	B	11	13410.360	**200.121**	3.24	1.6	ug/L
	Al	27	48837.352	**50.229**	0.46	0.9	ug/L
>	Sc	45	170842.727				ug/L
	V	51	28868.615	**19.968**	0.63	3.2	ug/L
	Cr	52	26562.633	**19.998**	0.14	0.7	ug/L
	Cr	53	15367.006	**20.229**	1.44	7.1	ug/L
	Mn	55	104976.639	**50.091**	0.56	1.1	ug/L
	Co	59	25518.603	**20.009**	0.29	1.4	ug/L
	Ni	60	13089.800	**49.974**	0.11	0.2	ug/L
	Cu	63	27253.889	**49.960**	0.97	2.0	ug/L
	Cu	65	12504.492	**50.127**	0.53	1.0	ug/L
	Zn	66	8045.539	**49.661**	0.01	0.0	ug/L
	Zn	68	5750.149	**49.783**	0.86	1.7	ug/L
>	Ge	72	132274.373				ug/L
	As	75	7819.945	**50.053**	0.23	0.4	ug/L
	Se	77	1492.812	**50.133**	3.04	6.1	ug/L
	Se	82	1060.855	**49.876**	0.47	0.9	ug/L
	Sr	88	31609.512	**3.986**	0.16	4.1	ug/L
	Mo	98	14175.429	**20.029**	0.05	0.3	ug/L
>	Rh	103	161601.711				ug/L
	Ag	107	31610.155	**20.051**	0.20	1.0	ug/L
	Cd	111	7914.111	**20.132**	0.47	2.3	ug/L
	Cd	114	19119.805	**20.101**	0.30	1.5	ug/L
>	In	115	248255.302				ug/L
	Sn	120	34471.735	**19.995**	0.23	1.1	ug/L
	Sb	121	25211.921	**20.121**	0.29	1.5	ug/L
	Ba	137	13968.897	**20.028**	0.32	1.6	ug/L
	Ba	138	86965.548	**19.984**	0.41	2.0	ug/L
>	Tb	159	336742.959				ug/L
	Tl	205	96235.072	**20.015**	0.35	1.7	ug/L
	Pb	208	181425.239	**50.152**	0.67	1.3	ug/L
	Hg	200	985.375	**4.027**	0.18	4.4	ug/L
	Hg	201	572.688	**4.019**	0.41	10.2	ug/L
>	Bi	209	276773.340				ug/L
	U	238	197134.427	**20.073**	0.06	0.3	ug/L
	C	13	633.360				ug/L
	W	184	3.332				ug/L
	Pd	106	-115.651				ug/L
	Kr	83	6.000				ug/L
	Na	23	1823869.686	**2002.492**	111.47	5.6	ug/L
	Mg	24	1217093.799	**2007.674**	82.92	4.1	ug/L

K	39	1758311.886	**2000.357**	29.07	1.5	ug/L
Ca	44	59374.982	**1987.386**	34.89	1.8	ug/L
Ti	47	13.333				ug/L
Sc-1	45	170842.727				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000203	0.000	0.999987	Linear Thru Zero
B	11.009	0.000376	0.000	0.999996	Linear Thru Zero
Al	26.982	0.005528	0.000	0.999974	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008201	0.000	0.999843	Linear Thru Zero
Cr	51.941	0.007147	0.000	0.999956	Linear Thru Zero
Cr	52.941	0.000646	0.000	0.974339	Linear Thru Zero
Mn	54.938	0.012225	0.000	0.999993	Linear Thru Zero
Co	58.933	0.007461	0.000	0.999999	Linear Thru Zero
Ni	59.933	0.001529	0.000	0.999796	Linear Thru Zero
Cu	62.930	0.004120	0.000	0.999994	Linear Thru Zero
Cu	64.928	0.001883	0.000	0.999980	Linear Thru Zero
Zn	65.926	0.001214	0.000	0.999903	Linear Thru Zero
Zn	67.925	0.000861	0.000	0.999952	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001179	0.000	0.999994	Linear Thru Zero
Se	76.920	0.000108	0.000	0.999623	Linear Thru Zero
Se	81.917	0.000159	0.000	0.999986	Linear Thru Zero
Sr	87.906	0.021390	0.000	0.999949	Linear Thru Zero
Mo	97.906	0.004371	0.000	0.999996	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009753	0.000	0.999986	Linear Thru Zero
Cd	110.904	0.001584	0.000	0.999903	Linear Thru Zero
Cd	113.904	0.003830	0.000	0.999949	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006903	0.000	1.000000	Linear Thru Zero
Sb	120.904	0.004930	0.000	0.999929	Linear Thru Zero
Ba	136.905	0.002069	0.000	0.999991	Linear Thru Zero
Ba	137.905	0.012904	0.000	0.999993	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014267	0.000	0.999998	Linear Thru Zero
Pb	207.977	0.010741	0.000	0.999982	Linear Thru Zero
Hg	199.968	0.000866	0.000	0.999858	Linear Thru Zero
Hg	200.970	0.000507	0.000	0.999384	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035477	0.000	0.999973	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	909.371523	0.000	0.999992	Linear Thru Zero
Mg	23.985	606.084782	0.000	0.999969	Linear Thru Zero
K	38.964	849.464766	0.000	0.999996	Linear Thru Zero
Ca	43.956	29.609220	0.000	0.999921	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 4

Sample Date/Time: Wednesday, July 26, 2017 00:42:06
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 5
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1305.111	**39.760**	0.43	1.1	ug/L
	B	11	24006.180	**394.929**	7.45	1.9	ug/L
	Al	27	83779.817	**97.405**	0.34	0.4	ug/L
>	Sc	45	164391.140				ug/L
	V	51	54032.889	**39.873**	1.11	2.8	ug/L
	Cr	52	48614.719	**39.915**	0.98	2.5	ug/L
	Cr	53	17852.889	**41.881**	1.73	4.1	ug/L
	Mn	55	198131.138	**99.640**	2.57	2.6	ug/L
	Co	59	48501.200	**39.893**	0.76	1.9	ug/L
	Ni	60	24632.409	**99.494**	1.70	1.7	ug/L
	Cu	63	51629.854	**99.182**	1.00	1.0	ug/L
	Cu	65	23589.820	**99.165**	1.50	1.5	ug/L
	Zn	66	15079.772	**98.870**	0.76	0.8	ug/L
	Zn	68	10530.542	**98.411**	0.66	0.7	ug/L
>	Ge	72	129572.058				ug/L
	As	75	14695.233	**99.044**	0.47	0.5	ug/L
	Se	77	2105.122	**98.994**	2.63	2.7	ug/L
	Se	82	1982.690	**98.950**	2.74	2.8	ug/L
	Sr	88	41720.975	**7.967**	0.24	3.0	ug/L
	Mo	98	27753.200	**39.962**	0.22	0.6	ug/L
>	Rh	103	159223.041				ug/L
	Ag	107	59963.569	**39.661**	0.51	1.3	ug/L
	Cd	111	15158.861	**39.859**	0.12	0.3	ug/L
	Cd	114	36026.476	**39.691**	0.30	0.8	ug/L
>	In	115	242828.782				ug/L
	Sn	120	66486.860	**39.893**	0.97	2.4	ug/L
	Sb	121	46116.558	**39.514**	0.51	1.3	ug/L
	Ba	137	26973.062	**39.783**	0.91	2.3	ug/L
	Ba	138	168209.479	**39.779**	0.56	1.4	ug/L
>	Tb	159	333328.307				ug/L
	Tl	205	184256.917	**39.692**	0.70	1.8	ug/L
	Pb	208	345938.946	**99.179**	1.43	1.4	ug/L
	Hg	200	1931.520	**8.040**	0.18	2.3	ug/L
	Hg	201	1074.742	**7.946**	0.68	8.5	ug/L
>	Bi	209	270268.142				ug/L
	U	238	379691.163	**39.904**	0.55	1.4	ug/L
	C	13	513.352				ug/L
	W	184	8.667				ug/L
	Pd	106	-173.482				ug/L
	Kr	83	7.833				ug/L
	Na	23	3314059.989	**3908.167**	180.76	4.6	ug/L
	Mg	24	2154982.958	**3884.101**	229.09	5.9	ug/L

K	39	3333350.845	**3964.319**	36.88	0.9	ug/L
Ca	44	118150.571	**3993.391**	55.90	1.4	ug/L
Ti	47	33.333				ug/L
Sc-1	45	164391.140				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999939	Linear Thru Zero
B	11.009	0.000361	0.000	0.999744	Linear Thru Zero
Al	26.982	0.005149	0.000	0.999038	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008120	0.000	0.999946	Linear Thru Zero
Cr	51.941	0.007100	0.000	0.999982	Linear Thru Zero
Cr	52.941	0.000757	0.000	0.991947	Linear Thru Zero
Mn	54.938	0.012085	0.000	0.999978	Linear Thru Zero
Co	58.933	0.007398	0.000	0.999988	Linear Thru Zero
Ni	59.933	0.001505	0.000	0.999909	Linear Thru Zero
Cu	62.930	0.004015	0.000	0.999892	Linear Thru Zero
Cu	64.928	0.001834	0.000	0.999884	Linear Thru Zero
Zn	65.926	0.001172	0.000	0.999772	Linear Thru Zero
Zn	67.925	0.000820	0.000	0.999587	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001144	0.000	0.999853	Linear Thru Zero
Se	76.920	0.000105	0.000	0.999743	Linear Thru Zero
Se	81.917	0.000153	0.000	0.999821	Linear Thru Zero
Sr	87.906	0.021115	0.000	0.999961	Linear Thru Zero
Mo	97.906	0.004358	0.000	0.999998	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009496	0.000	0.999882	Linear Thru Zero
Cd	110.904	0.001566	0.000	0.999957	Linear Thru Zero
Cd	113.904	0.003738	0.000	0.999892	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006845	0.000	0.999989	Linear Thru Zero
Sb	120.904	0.004747	0.000	0.999747	Linear Thru Zero
Ba	136.905	0.002033	0.000	0.999951	Linear Thru Zero
Ba	137.905	0.012680	0.000	0.999949	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013925	0.000	0.999905	Linear Thru Zero
Pb	207.977	0.010466	0.000	0.999888	Linear Thru Zero
Hg	199.968	0.000880	0.000	0.999927	Linear Thru Zero
Hg	200.970	0.000496	0.000	0.999775	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035207	0.000	0.999984	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	847.251269	0.000	0.999157	Linear Thru Zero
Mg	23.985	554.751225	0.000	0.998653	Linear Thru Zero
K	38.964	825.935479	0.000	0.999872	Linear Thru Zero
Ca	43.956	29.453803	0.000	0.999977	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: Standard 5

Sample Date/Time: Wednesday, July 26, 2017 00:45:34
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 6
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	3198.000	**99.996**	3.95	3.9	ug/L
	B	11	57266.039	**996.406**	27.22	2.7	ug/L
	Al	27	199131.662	**248.111**	2.68	1.1	ug/L
>	Sc	45	160224.668				ug/L
	V	51	135754.311	**100.625**	0.54	0.5	ug/L
	Cr	52	119661.375	**100.579**	0.55	0.5	ug/L
	Cr	53	24845.906	**100.542**	0.61	0.6	ug/L
	Mn	55	491257.073	**250.597**	3.04	1.2	ug/L
	Co	59	121369.297	**100.403**	1.09	1.1	ug/L
	Ni	60	60689.642	**250.263**	2.77	1.1	ug/L
	Cu	63	126175.876	**250.194**	1.06	0.4	ug/L
	Cu	65	57068.739	**249.744**	0.81	0.3	ug/L
	Zn	66	37106.679	**250.449**	1.19	0.5	ug/L
	Zn	68	25754.064	**250.067**	2.65	1.1	ug/L
>	Ge	72	125139.972				ug/L
	As	75	36897.661	**251.305**	1.59	0.6	ug/L
	Se	77	3965.523	**249.330**	1.48	0.6	ug/L
	Se	82	4973.518	**251.401**	1.13	0.4	ug/L
	Sr	88	73755.967	**20.109**	0.43	2.1	ug/L
	Mo	98	68925.632	**100.633**	2.01	2.0	ug/L
>	Rh	103	152362.236				ug/L
	Ag	107	147213.631	**100.297**	1.32	1.3	ug/L
	Cd	111	37487.353	**100.155**	0.94	0.9	ug/L
	Cd	114	90400.382	**100.332**	0.48	0.5	ug/L
>	In	115	237243.125				ug/L
	Sn	120	168338.387	**100.597**	1.07	1.1	ug/L
	Sb	121	123192.871	**101.439**	1.11	1.1	ug/L
	Ba	137	68006.701	**100.332**	0.82	0.8	ug/L
	Ba	138	423808.763	**100.321**	0.59	0.6	ug/L
>	Tb	159	327993.829				ug/L
	Tl	205	458538.160	**100.066**	0.98	1.0	ug/L
	Pb	208	858653.625	**250.017**	2.19	0.9	ug/L
	Hg	200	4466.511	**19.905**	0.60	3.0	ug/L
	Hg	201	2613.111	**20.034**	0.63	3.1	ug/L
>	Bi	209	259757.661				ug/L
	U	238	971056.657	**101.023**	1.25	1.2	ug/L
	C	13	486.684				ug/L
	W	184	18.666				ug/L
	Pd	106	-363.479				ug/L
	Kr	83	11.167				ug/L
	Na	23	7945238.551	**9885.439**	182.63	1.8	ug/L
	Mg	24	5057178.191	**9834.347**	363.41	3.7	ug/L

K	39	8061240.202	**9944.507**	55.90	0.6	ug/L
Ca	44	289626.746	**9967.428**	223.68	2.2	ug/L
Ti	47	90.001				ug/L
Sc-1	45	160224.668				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - ICV

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: ICV1

Sample Date/Time: Tuesday, July 25, 2017 08:39:42
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 160
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	2438.054	**51.885**	1.76	3.4	ug/L
	B	11	54249.749	**480.385**	11.81	2.5	ug/L
	Al	27	171266.300	**132.335**	1.86	1.4	ug/L
>	Sc	45	247814.472				ug/L
	V	51	100702.016	**51.743**	0.70	1.4	ug/L
	Cr	52	90238.309	**53.456**	1.12	2.1	ug/L
	Cr	53	29766.840	**50.218**	1.65	3.3	ug/L
	Mn	55	362203.323	**130.471**	2.15	1.7	ug/L
	Co	59	86963.630	**51.428**	0.92	1.8	ug/L
	Ni	60	45719.520	**136.334**	1.83	1.3	ug/L
	Cu	63	93146.102	**132.282**	0.28	0.2	ug/L
	Cu	65	42697.578	**131.538**	0.60	0.5	ug/L
	Zn	66	26765.857	**133.333**	1.22	0.9	ug/L
	Zn	68	18636.554	**132.564**	0.97	0.7	ug/L
>	Ge	72	167234.458				ug/L
	As	75	25748.642	**131.436**	1.60	1.2	ug/L
	Se	77	3539.648	**117.831**	1.50	1.3	ug/L
	Se	82	3430.847	**122.353**	1.80	1.5	ug/L
	Sr	88	65862.644	**9.771**	0.13	1.4	ug/L
	Mo	98	47010.633	**48.677**	0.58	1.2	ug/L
>	Rh	103	219213.112				ug/L
	Ag	107	109115.934	**51.263**	0.85	1.7	ug/L
	Cd	111	25163.743	**50.960**	0.56	1.1	ug/L
	Cd	114	61140.371	**51.492**	0.39	0.8	ug/L
>	In	115	336182.986				ug/L
	Sn	120	117713.230	**50.645**	0.32	0.6	ug/L
	Sb	121	74087.866	**49.274**	0.45	0.9	ug/L
	Ba	137	48464.339	**51.907**	0.52	1.0	ug/L
	Ba	138	305205.972	**52.554**	0.70	1.3	ug/L
>	Tb	159	439654.825				ug/L
	Tl	205	337255.163	**52.633**	0.61	1.2	ug/L
	Pb	208	615270.598	**130.464**	0.36	0.3	ug/L
	Hg	200	4212.355	**14.066**	0.41	2.9	ug/L
	Hg	201	2384.370	**13.624**	0.16	1.2	ug/L
>	Bi	209	374554.590				ug/L
	U	238	651139.764	**46.914**	0.57	1.2	ug/L
	C	13	1046.739				ug/L
	W	184	20.665				ug/L
	Pd	106	-249.465				ug/L
	Kr	83	10.333				ug/L
	Na	23	14994.634	**9.065**	0.71	7.9	ug/L
	Mg	24	2440.388	**2.781**	0.20	7.3	ug/L

K	39	60530.646	**4.913**	1.20	24.4	ug/L
Ca	44	2337.022	**34.771**	1.46	4.2	ug/L
Ti	47	123.334				ug/L
Sc-1	45	247814.472				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		101.705
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		100.582
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		101.102
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		100.601
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		101.640
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		99.366
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - ICB

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: ICB1

Sample Date/Time: Tuesday, July 25, 2017 08:48:15
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1.333	**0.021**	0.03	151.4	ug/L
	B	11	718.034	**1.996**	0.41	20.7	ug/L
	Al	27	2543.754	**0.066**	0.08	125.5	ug/L
>	Sc	45	242490.757				ug/L
	V	51	1635.824	**-0.169**	0.41	241.7	ug/L
	Cr	52	4732.455	**0.916**	0.05	5.7	ug/L
	Cr	53	21260.688	**10.119**	0.18	1.8	ug/L
	Mn	55	214.670	**0.004**	0.01	316.3	ug/L
	Co	59	20.667	**0.005**	0.00	106.8	ug/L
	Ni	60	32.333	**0.001**	0.02	1133.8	ug/L
	Cu	63	47.000	**0.013**	0.01	62.2	ug/L
	Cu	65	22.333	**0.019**	0.02	111.4	ug/L
	Zn	66	103.334	**-0.003**	0.11	3039.6	ug/L
	Zn	68	107.334	**-0.044**	0.13	298.6	ug/L
>	Ge	72	168998.808				ug/L
	As	75	100.790	**0.399**	0.17	42.0	ug/L
	Se	77	1268.105	**2.868**	2.00	69.8	ug/L
	Se	82	25.754	**0.018**	0.16	920.4	ug/L
	Sr	88	26542.069	**-0.195**	0.08	40.7	ug/L
	Mo	98	44.119	**0.026**	0.01	58.1	ug/L
>	Rh	103	220658.506				ug/L
	Ag	107	6.667	**-0.000**	0.00	1239.0	ug/L
	Cd	111	3.637	**0.007**	0.00	57.9	ug/L
	Cd	114	12.090	**0.004**	0.00	137.9	ug/L
>	In	115	333265.956				ug/L
	Sn	120	284.638	**0.038**	0.02	64.3	ug/L
	Sb	121	490.016	**0.099**	0.07	66.8	ug/L
	Ba	137	29.645	**0.000**	0.01	2951.2	ug/L
	Ba	138	159.313	**-0.001**	0.00	353.6	ug/L
>	Tb	159	434708.883				ug/L
	Tl	205	147.668	**0.009**	0.00	45.6	ug/L
	Pb	208	29.667	**-0.000**	0.00	2492.9	ug/L
	Hg	200	13.919	**0.025**	0.04	143.2	ug/L
	Hg	201	12.667	**0.065**	0.01	19.9	ug/L
>	Bi	209	374834.522				ug/L
	U	238	81.000	**0.005**	0.00	62.1	ug/L
	C	13	553.353				ug/L
	W	184	12.667				ug/L
	Pd	106	1.008				ug/L
	Kr	83	9.167				ug/L
	Na	23	3794.272	**0.038**	0.22	581.8	ug/L
	Mg	24	373.343	**0.078**	0.13	167.8	ug/L

K	39	61652.797	**5.846**	0.87	14.9	ug/L
Ca	44	653.362	**-2.991**	2.40	80.2	ug/L
Ti	47	13.333				ug/L
Sc-1	45	242490.757				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		99.520
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		101.643
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		101.768
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		99.728
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		100.497
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		99.440
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - CCV

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCV1

Sample Date/Time: Tuesday, July 25, 2017 09:44:04
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 5
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1872.562	**40.858**	1.57	3.8	ug/L
	B	11	44505.788	**403.384**	2.61	0.6	ug/L
	Al	27	128531.262	**101.365**	1.32	1.3	ug/L
>	Sc	45	241791.309				ug/L
	V	51	77006.615	**40.315**	0.42	1.0	ug/L
	Cr	52	67083.660	**40.222**	0.36	0.9	ug/L
	Cr	53	27222.271	**40.872**	0.37	0.9	ug/L
	Mn	55	271468.812	**100.169**	1.74	1.7	ug/L
	Co	59	65372.727	**39.614**	1.07	2.7	ug/L
	Ni	60	32815.532	**100.249**	1.36	1.4	ug/L
	Cu	63	67003.268	**101.864**	1.30	1.3	ug/L
	Cu	65	30946.814	**102.060**	0.78	0.8	ug/L
	Zn	66	19074.623	**101.638**	1.76	1.7	ug/L
	Zn	68	13405.006	**101.889**	1.12	1.1	ug/L
>	Ge	72	156235.227				ug/L
	As	75	18347.000	**100.244**	1.94	1.9	ug/L
	Se	77	2968.740	**99.624**	1.28	1.3	ug/L
	Se	82	2639.050	**100.647**	3.90	3.9	ug/L
	Sr	88	55351.796	**8.113**	0.22	2.8	ug/L
	Mo	98	35625.066	**40.127**	0.39	1.0	ug/L
>	Rh	103	201520.716				ug/L
	Ag	107	78951.825	**40.352**	0.74	1.8	ug/L
	Cd	111	19166.162	**40.524**	0.22	0.5	ug/L
	Cd	114	46559.083	**40.938**	0.31	0.8	ug/L
>	In	115	321976.784				ug/L
	Sn	120	90156.591	**40.483**	0.15	0.4	ug/L
	Sb	121	59223.172	**41.088**	0.50	1.2	ug/L
	Ba	137	36669.023	**41.510**	0.26	0.6	ug/L
	Ba	138	227965.793	**41.500**	0.71	1.7	ug/L
>	Tb	159	415944.475				ug/L
	Tl	205	249402.858	**41.140**	0.44	1.1	ug/L
	Pb	208	457572.171	**102.577**	1.83	1.8	ug/L
	Hg	200	2270.913	**8.215**	0.43	5.2	ug/L
	Hg	201	1302.777	**8.069**	0.34	4.3	ug/L
>	Bi	209	345492.274				ug/L
	U	238	502562.834	**39.252**	0.36	0.9	ug/L
	C	13	586.690				ug/L
	W	184	13.998				ug/L
	Pd	106	-152.626				ug/L
	Kr	83	8.333				ug/L
	Na	23	5186139.103	**4177.072**	3.73	0.1	ug/L
	Mg	24	3214496.590	**4201.836**	46.10	1.1	ug/L

K	39	5097509.363	**4196.181**	73.06	1.7	ug/L
Ca	44	182318.988	**4071.499**	64.45	1.6	ug/L
Ti	47	53.334				ug/L
Sc-1	45	241791.309				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		99.233
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		93.966
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		92.942
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		96.350
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		96.159
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		91.656
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCVN

Sample Date/Time: Wednesday, July 26, 2017 00:52:30
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 5
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1308.111	**40.654**	1.04	2.6	ug/L
	B	11	23158.878	**395.197**	8.12	2.1	ug/L
	Al	27	81084.446	**99.473**	1.60	1.6	ug/L
>	Sc	45	161130.037				ug/L
	V	51	54011.289	**39.429**	0.26	0.7	ug/L
	Cr	52	47878.830	**38.981**	0.22	0.6	ug/L
	Cr	53	17463.146	**40.497**	1.44	3.6	ug/L
	Mn	55	192901.973	**97.781**	1.41	1.4	ug/L
	Co	59	48006.040	**39.501**	0.79	2.0	ug/L
	Ni	60	24264.576	**99.435**	1.34	1.3	ug/L
	Cu	63	51206.705	**99.799**	0.89	0.9	ug/L
	Cu	65	23241.755	**99.984**	1.31	1.3	ug/L
	Zn	66	14905.436	**98.662**	1.43	1.4	ug/L
	Zn	68	10324.928	**98.147**	1.69	1.7	ug/L
>	Ge	72	127296.362				ug/L
	As	75	14594.332	**97.681**	1.67	1.7	ug/L
	Se	77	2046.606	**98.619**	1.90	1.9	ug/L
	Se	82	1948.689	**96.440**	1.85	1.9	ug/L
	Sr	88	41135.412	**7.828**	0.38	4.9	ug/L
	Mo	98	27172.453	**38.984**	0.55	1.4	ug/L
>	Rh	103	155001.751				ug/L
	Ag	107	59560.512	**39.886**	0.53	1.3	ug/L
	Cd	111	14789.744	**38.978**	0.93	2.4	ug/L
	Cd	114	35694.095	**39.063**	0.14	0.4	ug/L
>	In	115	240568.291				ug/L
	Sn	120	65963.686	**38.806**	0.19	0.5	ug/L
	Sb	121	46555.887	**37.511**	0.37	1.0	ug/L
	Ba	137	26810.162	**39.846**	0.34	0.9	ug/L
	Ba	138	166676.517	**39.745**	0.47	1.2	ug/L
>	Tb	159	325452.354				ug/L
	Tl	205	183610.660	**40.368**	0.43	1.1	ug/L
	Pb	208	340816.565	**100.013**	0.59	0.6	ug/L
	Hg	200	1915.508	**8.154**	0.30	3.7	ug/L
	Hg	201	1100.746	**8.070**	0.66	8.2	ug/L
>	Bi	209	270395.105				ug/L
	U	238	378397.635	**37.812**	0.27	0.7	ug/L
	C	13	486.682				ug/L
	W	184	9.998				ug/L
	Pd	106	-127.856				ug/L
	Kr	83	6.833				ug/L
	Na	23	3224942.461	**4010.347**	144.07	3.6	ug/L
	Mg	24	2109735.520	**4102.348**	176.91	4.3	ug/L

K	39	3307817.615	**4037.297**	82.94	2.1	ug/L
Ca	44	117389.260	**4029.053**	95.80	2.4	ug/L
Ti	47	60.000				ug/L
Sc-1	45	161130.037				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		95.683
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		95.982
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		94.421
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		96.881
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		95.806
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		95.985
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCVO

Sample Date/Time: Wednesday, July 26, 2017 01:23:40
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 7
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1312.445	**40.405**	0.81	2.0	ug/L
	B	11	23845.651	**403.099**	14.67	3.6	ug/L
	Al	27	83141.484	**101.020**	2.10	2.1	ug/L
>	Sc	45	162725.128				ug/L
	V	51	54393.395	**39.319**	1.00	2.5	ug/L
	Cr	52	48577.846	**39.167**	0.60	1.5	ug/L
	Cr	53	18098.955	**44.124**	3.23	7.3	ug/L
	Mn	55	192268.737	**96.456**	1.95	2.0	ug/L
	Co	59	47586.588	**38.747**	0.88	2.3	ug/L
	Ni	60	24054.585	**97.585**	1.23	1.3	ug/L
	Cu	63	50362.194	**100.932**	1.12	1.1	ug/L
	Cu	65	22922.145	**101.392**	1.17	1.2	ug/L
	Zn	66	14799.563	**100.759**	0.66	0.7	ug/L
	Zn	68	10401.699	**101.697**	0.34	0.3	ug/L
>	Ge	72	123737.273				ug/L
	As	75	14486.718	**99.724**	2.33	2.3	ug/L
	Se	77	1996.093	**99.108**	4.92	5.0	ug/L
	Se	82	1933.019	**98.407**	3.23	3.3	ug/L
	Sr	88	39999.098	**7.827**	0.22	2.8	ug/L
	Mo	98	27410.917	**39.628**	0.27	0.7	ug/L
>	Rh	103	153795.906				ug/L
	Ag	107	58698.448	**39.620**	0.45	1.1	ug/L
	Cd	111	14940.404	**39.910**	0.57	1.4	ug/L
	Cd	114	35726.526	**39.641**	0.44	1.1	ug/L
>	In	115	237286.060				ug/L
	Sn	120	70073.049	**41.809**	1.01	2.4	ug/L
	Sb	121	47709.570	**38.990**	0.63	1.6	ug/L
	Ba	137	26586.712	**40.742**	0.53	1.3	ug/L
	Ba	138	165225.738	**40.616**	0.13	0.3	ug/L
>	Tb	159	315699.267				ug/L
	Tl	205	183010.721	**41.480**	0.40	1.0	ug/L
	Pb	208	339348.298	**102.661**	0.18	0.2	ug/L
	Hg	200	1986.095	**8.623**	0.32	3.8	ug/L
	Hg	201	1171.423	**8.767**	0.41	4.7	ug/L
>	Bi	209	265118.412				ug/L
	U	238	377459.188	**38.469**	0.23	0.6	ug/L
	C	13	540.019				ug/L
	W	184	25.330				ug/L
	Pd	106	-166.355				ug/L
	Kr	83	6.833				ug/L
	Na	23	3393737.231	**4220.437**	195.24	4.6	ug/L
	Mg	24	2147555.940	**4175.899**	219.45	5.3	ug/L

K	39	3473579.666	**4243.294**	77.69	1.8	ug/L
Ca	44	122525.174	**4206.128**	107.39	2.6	ug/L
Ti	47	50.000				ug/L
Sc-1	45	162725.128				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		96.630
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		93.298
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		93.686
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		95.559
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		92.935
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		94.111
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCVP

Sample Date/Time: Wednesday, July 26, 2017 02:05:13
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 7
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1318.447	**42.251**	2.50	5.9	ug/L
	B	11	22034.211	**387.593**	8.14	2.1	ug/L
	Al	27	83787.467	**106.106**	1.37	1.3	ug/L
>	Sc	45	156276.504				ug/L
	V	51	51602.634	**38.830**	1.32	3.4	ug/L
	Cr	52	47225.401	**39.672**	0.45	1.1	ug/L
	Cr	53	16436.883	**36.368**	2.44	6.7	ug/L
	Mn	55	192608.677	**100.654**	0.85	0.8	ug/L
	Co	59	48832.237	**41.411**	0.31	0.8	ug/L
	Ni	60	24688.241	**104.308**	1.12	1.1	ug/L
	Cu	63	51311.638	**99.624**	1.55	1.6	ug/L
	Cu	65	23878.684	**102.327**	1.17	1.1	ug/L
	Zn	66	14867.694	**98.005**	0.63	0.6	ug/L
	Zn	68	10716.462	**101.486**	1.85	1.8	ug/L
>	Ge	72	127763.715				ug/L
	As	75	14980.294	**99.853**	0.46	0.5	ug/L
	Se	77	1986.256	**93.586**	2.99	3.2	ug/L
	Se	82	1985.351	**97.834**	2.12	2.2	ug/L
	Sr	88	40723.542	**7.617**	0.25	3.3	ug/L
	Mo	98	27274.325	**38.732**	0.50	1.3	ug/L
>	Rh	103	156555.783				ug/L
	Ag	107	58648.779	**38.882**	0.54	1.4	ug/L
	Cd	111	14195.139	**39.487**	0.70	1.8	ug/L
	Cd	114	34009.419	**39.296**	0.13	0.3	ug/L
>	In	115	227846.378				ug/L
	Sn	120	62582.873	**38.870**	0.55	1.4	ug/L
	Sb	121	45283.603	**38.538**	0.64	1.7	ug/L
	Ba	137	25829.162	**37.085**	0.56	1.5	ug/L
	Ba	138	162039.528	**37.326**	0.35	0.9	ug/L
>	Tb	159	336871.682				ug/L
	Tl	205	180608.821	**38.365**	0.40	1.1	ug/L
	Pb	208	336295.301	**95.346**	1.04	1.1	ug/L
	Hg	200	1874.716	**8.286**	0.40	4.8	ug/L
	Hg	201	1079.409	**8.215**	0.47	5.8	ug/L
>	Bi	209	260374.857				ug/L
	U	238	370803.107	**38.478**	0.14	0.4	ug/L
	C	13	380.009				ug/L
	W	184	27.998				ug/L
	Pd	106	-56.649				ug/L
	Kr	83	8.500				ug/L
	Na	23	3833550.716	**4767.848**	128.18	2.7	ug/L
	Mg	24	2394799.162	**4656.722**	213.35	4.6	ug/L

K	39	3501478.594	**4277.965**	56.10	1.3	ug/L
Ca	44	109994.258	**3774.089**	50.02	1.3	ug/L
Ti	47	53.334				ug/L
Sc-1	45	156276.504				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		92.801
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		96.334
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		95.368
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		91.758
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		99.168
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		92.428
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: CCVQ

Sample Date/Time: Wednesday, July 26, 2017 02:43:19
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 7
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1355.786	**42.393**	0.89	2.1	ug/L
	B	11	23360.143	**401.043**	10.24	2.6	ug/L
	Al	27	85689.888	**105.825**	2.03	1.9	ug/L
>	Sc	45	160221.464				ug/L
	V	51	53432.514	**39.227**	0.62	1.6	ug/L
	Cr	52	48059.708	**39.373**	0.63	1.6	ug/L
	Cr	53	17707.875	**43.239**	3.34	7.7	ug/L
	Mn	55	194229.992	**99.016**	1.53	1.5	ug/L
	Co	59	48929.858	**40.475**	0.05	0.1	ug/L
	Ni	60	25003.911	**103.068**	1.09	1.1	ug/L
	Cu	63	52561.661	**100.258**	0.50	0.5	ug/L
	Cu	65	23969.631	**100.905**	0.81	0.8	ug/L
	Zn	66	15333.614	**99.287**	1.59	1.6	ug/L
	Zn	68	10746.502	**99.974**	1.60	1.6	ug/L
>	Ge	72	130048.408				ug/L
	As	75	15117.024	**98.997**	0.84	0.8	ug/L
	Se	77	2168.139	**104.329**	5.38	5.2	ug/L
	Se	82	2019.353	**97.802**	1.46	1.5	ug/L
	Sr	88	41867.668	**7.762**	0.13	1.6	ug/L
	Mo	98	27295.246	**39.205**	0.42	1.1	ug/L
>	Rh	103	154801.763				ug/L
	Ag	107	58838.210	**39.454**	0.55	1.4	ug/L
	Cd	111	14424.159	**39.749**	0.36	0.9	ug/L
	Cd	114	34800.546	**39.833**	0.33	0.8	ug/L
>	In	115	230012.778				ug/L
	Sn	120	63114.012	**38.825**	0.97	2.5	ug/L
	Sb	121	45036.832	**37.960**	0.59	1.5	ug/L
	Ba	137	26069.292	**37.811**	0.30	0.8	ug/L
	Ba	138	162224.621	**37.748**	0.15	0.4	ug/L
>	Tb	159	333484.127				ug/L
	Tl	205	181887.275	**39.027**	0.74	1.9	ug/L
	Pb	208	338840.454	**97.041**	1.30	1.3	ug/L
	Hg	200	1917.453	**8.482**	0.33	3.9	ug/L
	Hg	201	1095.411	**8.348**	0.08	1.0	ug/L
>	Bi	209	260121.163				ug/L
	U	238	375806.847	**39.036**	0.43	1.1	ug/L
	C	13	313.341				ug/L
	W	184	18.666				ug/L
	Pd	106	-147.627				ug/L
	Kr	83	9.333				ug/L
	Na	23	3595527.177	**4471.594**	126.73	2.8	ug/L
	Mg	24	2273767.445	**4421.347**	149.84	3.4	ug/L

K	39	3283875.115	**4007.543**	65.96	1.6	ug/L
Ca	44	111370.585	**3821.542**	66.60	1.7	ug/L
Ti	47	60.000				ug/L
Sc-1	45	160221.464				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		95.144
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		98.057
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		94.299
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		92.630
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		98.171
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		92.338
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - CCB

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCB1

Sample Date/Time: Tuesday, July 25, 2017 09:47:32
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1.333	**0.022**	0.01	58.0	ug/L
	B	11	653.361	**1.378**	0.35	25.5	ug/L
	Al	27	2672.465	**0.158**	0.12	74.0	ug/L
>	Sc	45	243791.261				ug/L
	V	51	2832.197	**0.469**	0.46	97.8	ug/L
	Cr	52	3306.210	**0.008**	0.04	454.8	ug/L
	Cr	53	20838.187	**7.427**	2.14	28.9	ug/L
	Mn	55	213.336	**0.003**	0.00	78.2	ug/L
	Co	59	12.667	**-0.000**	0.00	182.6	ug/L
	Ni	60	35.667	**0.011**	0.01	104.2	ug/L
	Cu	63	47.000	**0.017**	0.01	37.1	ug/L
	Cu	65	26.667	**0.038**	0.01	38.7	ug/L
	Zn	66	101.667	**0.020**	0.08	424.7	ug/L
	Zn	68	102.667	**-0.028**	0.07	236.7	ug/L
>	Ge	72	158667.003				ug/L
	As	75	14.649	**-0.026**	0.31	1174.7	ug/L
	Se	77	1216.430	**4.299**	1.22	28.5	ug/L
	Se	82	24.942	**0.045**	0.04	91.0	ug/L
	Sr	88	25686.823	**0.009**	0.12	1254.9	ug/L
	Mo	98	124.047	**0.115**	0.06	52.6	ug/L
>	Rh	103	209002.790				ug/L
	Ag	107	16.000	**0.005**	0.00	55.4	ug/L
	Cd	111	4.813	**0.010**	0.00	26.4	ug/L
	Cd	114	22.152	**0.013**	0.00	27.6	ug/L
>	In	115	326469.926				ug/L
	Sn	120	469.989	**0.123**	0.05	40.1	ug/L
	Sb	121	369.342	**0.023**	0.05	198.8	ug/L
	Ba	137	33.971	**0.006**	0.01	103.2	ug/L
	Ba	138	173.973	**0.003**	0.01	273.1	ug/L
>	Tb	159	417922.866				ug/L
	Tl	205	206.336	**0.020**	0.00	11.3	ug/L
	Pb	208	85.667	**0.013**	0.00	38.3	ug/L
	Hg	200	14.624	**0.028**	0.03	113.2	ug/L
	Hg	201	12.000	**0.064**	0.02	30.6	ug/L
>	Bi	209	359924.490				ug/L
	U	238	186.002	**0.013**	0.00	36.0	ug/L
	C	13	406.678				ug/L
	W	184	6.666				ug/L
	Pd	106	1.609				ug/L
	Kr	83	6.667				ug/L
	Na	23	4194.481	**0.360**	0.27	75.1	ug/L
	Mg	24	726.703	**0.540**	0.25	46.5	ug/L

K	39	56392.621	**1.469**	0.15	10.2	ug/L
Ca	44	680.030	**-2.393**	0.22	9.4	ug/L
Ti	47	33.333				ug/L
Sc-1	45	243791.261				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		100.054
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		95.429
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		96.393
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		97.694
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		96.616
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		95.484
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: CCBN

Sample Date/Time: Wednesday, July 26, 2017 00:55:58
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 1
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	0.333	**-0.019**	0.02	93.8	ug/L
	B	11	507.350	**-0.338**	0.23	68.0	ug/L
	Al	27	1374.790	**0.070**	0.08	109.4	ug/L
>	Sc	45	162250.200				ug/L
	V	51	958.317	**0.083**	0.08	90.6	ug/L
	Cr	52	1826.717	**-0.180**	0.01	8.0	ug/L
	Cr	53	11726.107	**-5.969**	2.90	48.6	ug/L
	Mn	55	287.339	**-0.027**	0.01	44.7	ug/L
	Co	59	25.667	**0.005**	0.01	103.6	ug/L
	Ni	60	39.000	**0.028**	0.02	56.4	ug/L
	Cu	63	36.333	**0.018**	0.01	29.8	ug/L
	Cu	65	17.333	**0.007**	0.01	206.7	ug/L
	Zn	66	73.000	**0.016**	0.05	316.7	ug/L
	Zn	68	81.000	**0.028**	0.12	432.7	ug/L
>	Ge	72	127769.691				ug/L
	As	75	98.838	**0.558**	0.18	31.8	ug/L
	Se	77	722.367	**-1.930**	1.46	75.7	ug/L
	Se	82	16.917	**0.141**	0.11	80.6	ug/L
	Sr	88	19544.138	**-0.031**	0.10	327.5	ug/L
	Mo	98	84.005	**0.081**	0.04	52.5	ug/L
>	Rh	103	160860.483				ug/L
	Ag	107	26.667	**0.009**	0.01	62.3	ug/L
	Cd	111	2.315	**0.002**	0.01	441.6	ug/L
	Cd	114	11.587	**0.004**	0.01	146.1	ug/L
>	In	115	245776.389				ug/L
	Sn	120	333.991	**0.077**	0.06	77.0	ug/L
	Sb	121	909.389	**0.264**	0.17	66.1	ug/L
	Ba	137	23.981	**0.010**	0.01	77.3	ug/L
	Ba	138	101.982	**-0.006**	0.01	89.7	ug/L
>	Tb	159	326821.050				ug/L
	Tl	205	332.674	**0.057**	0.01	20.7	ug/L
	Pb	208	64.334	**0.012**	0.01	47.5	ug/L
	Hg	200	42.628	**0.093**	0.05	49.0	ug/L
	Hg	201	19.333	**0.073**	0.03	47.6	ug/L
>	Bi	209	277434.959				ug/L
	U	238	152.002	**0.011**	0.00	42.4	ug/L
	C	13	366.676				ug/L
	W	184	5.998				ug/L
	Pd	106	0.211				ug/L
	Kr	83	9.500				ug/L
	Na	23	2627.119	**-0.291**	0.36	124.0	ug/L
	Mg	24	516.684	**0.473**	0.20	42.8	ug/L

K	39	57816.475	**-1.569**	0.60	38.3	ug/L
Ca	44	586.689	**1.954**	1.74	88.8	ug/L
Ti	47	13.333				ug/L
Sc-1	45	162250.200				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		96.348
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		96.339
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		97.990
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		98.978
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		96.209
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		98.484
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: CCBO

Sample Date/Time: Wednesday, July 26, 2017 01:27:08
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 9
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	2.667	**0.051**	0.02	38.0	ug/L
	B	11	798.042	**4.400**	1.07	24.4	ug/L
	Al	27	1605.501	**0.313**	0.04	12.9	ug/L
>	Sc	45	165728.579				ug/L
	V	51	1318.724	**0.332**	0.36	109.0	ug/L
	Cr	52	1891.733	**-0.158**	0.03	21.6	ug/L
	Cr	53	13175.275	**3.371**	1.76	52.3	ug/L
	Mn	55	279.338	**-0.034**	0.01	22.3	ug/L
	Co	59	28.667	**0.007**	0.00	21.0	ug/L
	Ni	60	37.667	**0.019**	0.01	25.8	ug/L
	Cu	63	80.334	**0.106**	0.02	20.2	ug/L
	Cu	65	45.333	**0.130**	0.02	15.7	ug/L
	Zn	66	168.002	**0.661**	0.08	11.8	ug/L
	Zn	68	139.001	**0.606**	0.20	33.2	ug/L
>	Ge	72	125761.183				ug/L
	As	75	-11.067	**-0.188**	0.47	251.3	ug/L
	Se	77	694.198	**-3.229**	0.41	12.6	ug/L
	Se	82	17.106	**0.168**	0.33	198.2	ug/L
	Sr	88	19052.573	**-0.098**	0.10	102.2	ug/L
	Mo	98	118.156	**0.132**	0.06	48.4	ug/L
>	Rh	103	157020.082				ug/L
	Ag	107	23.333	**0.007**	0.01	72.7	ug/L
	Cd	111	3.030	**0.005**	0.01	261.6	ug/L
	Cd	114	25.517	**0.019**	0.01	55.9	ug/L
>	In	115	240497.829				ug/L
	Sn	120	1353.457	**0.686**	0.34	48.9	ug/L
	Sb	121	802.044	**0.193**	0.18	92.4	ug/L
	Ba	137	39.638	**0.034**	0.00	10.6	ug/L
	Ba	138	219.975	**0.023**	0.01	35.8	ug/L
>	Tb	159	323866.857				ug/L
	Tl	205	334.341	**0.058**	0.01	25.5	ug/L
	Pb	208	70.000	**0.014**	0.00	24.7	ug/L
	Hg	200	75.287	**0.234**	0.03	14.2	ug/L
	Hg	201	32.000	**0.168**	0.05	31.4	ug/L
>	Bi	209	273829.753				ug/L
	U	238	215.670	**0.017**	0.01	43.4	ug/L
	C	13	526.685				ug/L
	W	184	7.333				ug/L
	Pd	106	0.211				ug/L
	Kr	83	7.000				ug/L
	Na	23	6315.941	**4.301**	0.75	17.4	ug/L
	Mg	24	633.360	**0.700**	0.26	37.3	ug/L

K	39	64435.465	**6.656**	1.33	19.9	ug/L
Ca	44	666.696	**4.712**	3.72	78.9	ug/L
Ti	47	20.000				ug/L
Sc-1	45	165728.579				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		98.414
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		94.824
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		95.650
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		96.852
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		95.340
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		97.204
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCBP

Sample Date/Time: Wednesday, July 26, 2017 02:08:41
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 9
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	0.000	**-0.030**	0.00	0.0	ug/L
	B	11	626.692	**2.100**	0.63	30.0	ug/L
	Al	27	1553.490	**0.357**	0.00	0.3	ug/L
>	Sc	45	156835.405				ug/L
	V	51	250.077	**-0.440**	0.60	135.2	ug/L
	Cr	52	1566.660	**-0.353**	0.04	12.7	ug/L
	Cr	53	11440.334	**-5.042**	2.91	57.7	ug/L
	Mn	55	280.672	**-0.025**	0.02	62.7	ug/L
	Co	59	20.667	**0.002**	0.01	334.9	ug/L
	Ni	60	58.667	**0.117**	0.02	21.4	ug/L
	Cu	63	113.334	**0.166**	0.01	7.3	ug/L
	Cu	65	47.667	**0.136**	0.04	28.1	ug/L
	Zn	66	147.001	**0.497**	0.13	25.9	ug/L
	Zn	68	124.668	**0.435**	0.02	4.4	ug/L
>	Ge	72	128821.162				ug/L
	As	75	1.435	**-0.101**	0.64	635.7	ug/L
	Se	77	709.366	**-3.380**	2.78	82.1	ug/L
	Se	82	15.088	**0.045**	0.04	85.9	ug/L
	Sr	88	19538.460	**-0.092**	0.01	11.6	ug/L
	Mo	98	47.676	**0.031**	0.02	73.7	ug/L
>	Rh	103	159652.510				ug/L
	Ag	107	20.000	**0.005**	0.00	57.1	ug/L
	Cd	111	1.030	**-0.001**	0.01	1107.7	ug/L
	Cd	114	11.048	**0.004**	0.00	100.7	ug/L
>	In	115	230756.997				ug/L
	Sn	120	337.974	**0.091**	0.05	59.2	ug/L
	Sb	121	850.047	**0.259**	0.08	31.7	ug/L
	Ba	137	29.307	**0.017**	0.01	49.9	ug/L
	Ba	138	201.976	**0.016**	0.00	25.1	ug/L
>	Tb	159	337589.496				ug/L
	Tl	205	268.672	**0.041**	0.01	34.2	ug/L
	Pb	208	37.000	**0.004**	0.00	17.2	ug/L
	Hg	200	41.244	**0.094**	0.07	76.8	ug/L
	Hg	201	24.000	**0.113**	0.11	93.9	ug/L
>	Bi	209	266521.543				ug/L
	U	238	106.001	**0.007**	0.00	55.6	ug/L
	C	13	380.010				ug/L
	W	184	13.999				ug/L
	Pd	106	0.406				ug/L
	Kr	83	9.000				ug/L
	Na	23	33338.845	**37.935**	1.78	4.7	ug/L
	Mg	24	473.348	**0.389**	0.11	28.9	ug/L

K	39	61175.735	**2.605**	1.94	74.6	ug/L
Ca	44	630.027	**3.448**	4.48	130.0	ug/L
Ti	47	13.333				ug/L
Sc-1	45	156835.405				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		93.133
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		97.131
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		97.254
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		92.930
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		99.379
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		94.610
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

	Ti	47
	Sc-1	45

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: CCBQ

Sample Date/Time: Wednesday, July 26, 2017 02:46:47
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 9
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	2.000	**0.034**	0.03	97.1	ug/L
	B	11	543.353	**0.526**	1.16	219.5	ug/L
	Al	27	1648.844	**0.462**	0.06	12.7	ug/L
>	Sc	45	158074.816				ug/L
	V	51	1209.736	**0.297**	0.24	82.3	ug/L
	Cr	52	1817.381	**-0.146**	0.05	35.9	ug/L
	Cr	53	12566.592	**3.366**	1.52	45.0	ug/L
	Mn	55	217.336	**-0.059**	0.00	8.2	ug/L
	Co	59	19.667	**0.001**	0.01	1007.7	ug/L
	Ni	60	48.000	**0.070**	0.03	49.6	ug/L
	Cu	63	105.667	**0.148**	0.02	11.6	ug/L
	Cu	65	47.000	**0.129**	0.04	30.1	ug/L
	Zn	66	145.668	**0.476**	0.13	27.3	ug/L
	Zn	68	137.001	**0.534**	0.19	35.8	ug/L
>	Ge	72	130848.964				ug/L
	As	75	111.539	**0.619**	0.61	98.9	ug/L
	Se	77	816.543	**3.741**	1.43	38.1	ug/L
	Se	82	16.757	**0.116**	0.12	103.1	ug/L
	Sr	88	19536.454	**-0.201**	0.09	44.4	ug/L
	Mo	98	62.895	**0.052**	0.04	84.5	ug/L
>	Rh	103	159069.254				ug/L
	Ag	107	18.000	**0.003**	0.01	272.6	ug/L
	Cd	111	6.655	**0.015**	0.01	68.0	ug/L
	Cd	114	8.630	**0.001**	0.00	307.1	ug/L
>	In	115	231264.468				ug/L
	Sn	120	301.238	**0.069**	0.06	84.2	ug/L
	Sb	121	752.705	**0.176**	0.16	88.8	ug/L
	Ba	137	37.969	**0.030**	0.01	33.1	ug/L
	Ba	138	153.303	**0.006**	0.01	129.4	ug/L
>	Tb	159	334231.948				ug/L
	Tl	205	279.672	**0.044**	0.01	28.9	ug/L
	Pb	208	47.000	**0.007**	0.00	24.7	ug/L
	Hg	200	23.286	**0.015**	0.02	142.5	ug/L
	Hg	201	20.667	**0.086**	0.06	69.1	ug/L
>	Bi	209	270459.335				ug/L
	U	238	127.001	**0.009**	0.01	62.4	ug/L
	C	13	380.010				ug/L
	W	184	7.333				ug/L
	Pd	106	2.146				ug/L
	Kr	83	8.833				ug/L
	Na	23	20373.717	**21.798**	1.94	8.9	ug/L
	Mg	24	586.689	**0.609**	0.19	30.7	ug/L

K	39	60161.344	**1.345**	3.47	257.9	ug/L
Ca	44	710.034	**6.207**	5.15	83.0	ug/L
Ti	47	20.000				ug/L
Sc-1	45	158074.816				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		93.869
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		98.660
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		96.899
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		93.134
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		98.391
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		96.007
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Instrument Tuning

Sample Information

Sample Date/Time: Tuesday, July 25, 2017 06:18:34
Method File: C:\Elandata\Method\BC Methods\BC-Tuning.mth
Dataset File: C:\Elandata\Dataset\Default\Mass Calibration and Resolution.852
Tuning File: C:\Elandata\Tuning\default.tun
Number of Sweeps: 35
Number of Readings: 1
Number of Replicates: 5
Measurement Unit: cps

Instrument Tuning Report

File Name: default.tun
File Path: C:\Elandata\Tuning\default.tun

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Li	7.016	7.077	1560	2083	0.708	
Mg	23.985	23.978	5664	2100	0.667	
Rh	102.905	102.878	24810	2262	0.683	
Ce	139.905	139.828	33783	2348	0.691	
Pb	207.977	207.979	50315	2502	0.681	
U	238.050	238.026	57611	2556	0.687	

Daily Performance Report

Sample ID: Daily Performance Check
Sample Date/Time: Tuesday, July 25, 2017 06:29:09
Sample Description:
Method File: C:\Elandata\Method\BC Methods\BC_Daily Performance.mth
Dataset File: C:\Elandata\Dataset\Default\Daily Performance Check.854
Tuning File: C:\Elandata\Tuning\default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Dual Detector Mode: Dual

Acq. Dead Time(ns): 65
Current Dead Time (ns): 65

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	13785.1	13785.142	156.365	1.1
	In	114.9	95026.1	95026.094	776.761	0.8
	U	238.1	185932.8	185932.778	583.715	0.3
⌈>	Ba	137.9	91206.7	91206.669	324.311	0.4
⌊	Ba++	69.0	716.1	0.008	0.000	3.3
⌈>	Ce	139.9	108838.7	108838.661	435.538	0.4
⌊	CeO	155.9	2446.9	0.022	0.000	2.1
	220	220.0	0.6	0.640	0.727	113.5
	8.5	8.5	0.6	0.640	0.358	55.9

Current Optimization File Data

Current Value	Description
0.83	Nebulizer Gas Flow [NEB]
1.20	Auxiliary Gas Flow
15.00	Plasma Gas Flow
9.00	Lens Voltage
1200.00	ICP RF Power
-1900.00	Analog Stage Voltage
1350.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset Std [QRO]
-10.00	Cell Rod Offset Std [CRO]
60.00	Discriminator Threshold
-21.00	Cell Path Voltage Std [CPV]
0.00	RPa
0.25	RPq
0.98	DRC Mode NEB
-8.00	DRC Mode QRO
-2.00	DRC Mode CRO
-25.00	DRC Mode CPV
0.00	Cell Gas A
0.00	Cell Gas B
210.00	RF Voltage
0.00	DC Voltage
60.00	Service DAC 1
450.00	Axial Field Voltage

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
C	12	69	6.8	93302.4
Mg	24	69	7.5	18876.5
In	115	69	9.0	101208.1
Ce	140	69	9.0	105022.1
Pb	208	69	10.5	70844.7

Raw Data - Method Blank

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-BLK1

Sample Date/Time: Wednesday, July 26, 2017 01:02:54
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 154
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	0.000	**-0.030**	0.00	0.0	ug/L
	B	11	528.018	**-0.183**	0.92	501.6	ug/L
	Al	27	5285.158	**4.774**	0.40	8.5	ug/L
>	Sc	45	165650.040				ug/L
	V	51	1662.211	**0.571**	0.27	48.0	ug/L
	Cr	52	1968.419	**-0.094**	0.05	51.0	ug/L
	Cr	53	12142.580	**-4.603**	1.67	36.4	ug/L
	Mn	55	392.010	**0.022**	0.01	47.2	ug/L
	Co	59	19.333	**-0.000**	0.01	1490.7	ug/L
	Ni	60	73.667	**0.164**	0.02	15.0	ug/L
	Cu	63	125.001	**0.189**	0.02	11.5	ug/L
	Cu	65	65.000	**0.211**	0.04	20.2	ug/L
	Zn	66	622.692	**3.640**	0.23	6.3	ug/L
	Zn	68	456.347	**3.585**	0.29	8.0	ug/L
>	Ge	72	128324.301				ug/L
	As	75	56.516	**0.272**	0.08	27.9	ug/L
	Se	77	729.701	**-1.588**	3.93	247.4	ug/L
	Se	82	14.593	**0.029**	0.30	1043.9	ug/L
	Sr	88	19875.988	**0.056**	0.03	48.8	ug/L
	Mo	98	68.452	**0.058**	0.03	58.4	ug/L
>	Rh	103	162061.462				ug/L
	Ag	107	12.000	**-0.001**	0.00	568.9	ug/L
	Cd	111	2.509	**0.003**	0.01	245.8	ug/L
	Cd	114	11.747	**0.004**	0.00	65.5	ug/L
>	In	115	245691.056				ug/L
	Sn	120	392.677	**0.110**	0.04	38.6	ug/L
	Sb	121	430.012	**-0.120**	0.06	50.0	ug/L
	Ba	137	55.291	**0.057**	0.02	41.7	ug/L
	Ba	138	298.630	**0.041**	0.00	9.5	ug/L
>	Tb	159	326391.523				ug/L
	Tl	205	183.669	**0.024**	0.00	10.3	ug/L
	Pb	208	94.334	**0.021**	0.00	14.8	ug/L
	Hg	200	52.637	**0.135**	0.10	73.9	ug/L
	Hg	201	26.000	**0.121**	0.09	73.6	ug/L
>	Bi	209	277356.835				ug/L
	U	238	173.002	**0.013**	0.00	35.1	ug/L
	C	13	420.012				ug/L
	W	184	4.666				ug/L
	Pd	106	0.471				ug/L
	Kr	83	8.500				ug/L
	Na	23	8571.485	**7.108**	1.27	17.9	ug/L
	Mg	24	733.369	**0.895**	0.15	16.5	ug/L

K	39	65699.527	**8.227**	2.34	28.5	ug/L
Ca	44	963.395	**14.942**	7.07	47.3	ug/L
Ti	47	30.000				ug/L
Sc-1	45	165650.040				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		98.367
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		96.757
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		98.721
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		98.944
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		96.083
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		98.456
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Duplicate

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-DUP1

Sample Date/Time: Wednesday, July 26, 2017 01:09:49
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 156
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1.667	**0.020**	0.05	230.7	ug/L
	B	11	9083.381	**144.082**	4.95	3.4	ug/L
	Al	27	24533.079	**27.965**	0.91	3.3	ug/L
>	Sc	45	166700.522				ug/L
	V	51	2564.105	**1.212**	0.16	13.4	ug/L
	Cr	52	2877.705	**0.643**	0.02	3.8	ug/L
	Cr	53	4855.033	**-61.443**	0.49	0.8	ug/L
	Mn	55	274565.455	**134.640**	2.74	2.0	ug/L
	Co	59	211.670	**0.153**	0.00	2.4	ug/L
	Ni	60	504.350	**1.874**	0.16	8.8	ug/L
	Cu	63	710.700	**1.439**	0.05	3.7	ug/L
	Cu	65	234.004	**1.016**	0.05	5.2	ug/L
	Zn	66	536.019	**3.368**	0.07	2.0	ug/L
	Zn	68	477.015	**4.172**	0.08	1.9	ug/L
>	Ge	72	118260.327				ug/L
	As	75	1260.373	**8.977**	0.43	4.8	ug/L
	Se	77	360.675	**-27.053**	1.40	5.2	ug/L
	Se	82	25.265	**0.650**	0.51	79.2	ug/L
	Sr	88	1386584.699	**533.792**	4.26	0.8	ug/L
	Mo	98	1174.099	**1.773**	0.10	5.9	ug/L
>	Rh	103	144554.729				ug/L
	Ag	107	4.667	**-0.005**	0.00	14.6	ug/L
	Cd	111	7.176	**0.017**	0.04	216.6	ug/L
	Cd	114	34.172	**0.031**	0.01	30.4	ug/L
>	In	115	225161.981				ug/L
	Sn	120	533.301	**0.219**	0.02	11.1	ug/L
	Sb	121	325.340	**-0.180**	0.01	7.0	ug/L
	Ba	137	29246.496	**45.454**	0.36	0.8	ug/L
	Ba	138	182314.047	**45.464**	0.51	1.1	ug/L
>	Tb	159	311262.353				ug/L
	Tl	205	28.333	**-0.009**	0.00	7.1	ug/L
	Pb	208	683.030	**0.203**	0.00	1.4	ug/L
	Hg	200	69.764	**0.252**	0.03	12.8	ug/L
	Hg	201	28.000	**0.167**	0.02	9.7	ug/L
>	Bi	209	239897.833				ug/L
	U	238	1793.209	**0.198**	0.00	1.6	ug/L
	C	13	3774.266				ug/L
	W	184	245.337				ug/L
	Pd	106	3.755				ug/L
	Kr	83	7.833				ug/L
	Na	23	75932899.997	**94505.925**	5774.86	6.1	ug/L
	Mg	24	11543563.419	**22448.656**	1302.23	5.8	ug/L

K	39	15304927.612	**18946.437**	672.88	3.6	ug/L
Ca	44	1064736.157	**36691.518**	1351.71	3.7	ug/L
Ti	47	930.057				ug/L
Sc-1	45	166700.522				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		98.991
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		89.169
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		88.057
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		90.676
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		91.629
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		85.159
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Matrix Spike

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-MS1

Sample Date/Time: Wednesday, July 26, 2017 01:16:44
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 301
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1238.100	**37.231**	0.81	2.2	ug/L
	B	11	30527.816	**506.622**	4.29	0.8	ug/L
	Al	27	259315.901	**311.178**	5.24	1.7	ug/L
>	Sc	45	166577.404				ug/L
	V	51	53223.759	**37.565**	0.69	1.8	ug/L
	Cr	52	46601.601	**36.601**	0.34	0.9	ug/L
	Cr	53	10906.230	**-14.713**	1.02	6.9	ug/L
	Mn	55	441231.056	**216.527**	1.51	0.7	ug/L
	Co	59	44683.801	**35.547**	0.26	0.7	ug/L
	Ni	60	22037.202	**87.332**	0.85	1.0	ug/L
	Cu	63	44973.131	**95.686**	0.61	0.6	ug/L
	Cu	65	20391.002	**95.750**	0.47	0.5	ug/L
	Zn	66	15372.685	**111.121**	1.20	1.1	ug/L
	Zn	68	10880.025	**112.988**	0.84	0.7	ug/L
>	Ge	72	116593.133				ug/L
	As	75	16109.520	**117.699**	2.12	1.8	ug/L
	Se	77	1801.378	**92.660**	2.40	2.6	ug/L
	Se	82	2181.903	**118.004**	1.42	1.2	ug/L
	Sr	88	1308493.681	**510.818**	9.38	1.8	ug/L
	Mo	98	26243.381	**41.300**	0.44	1.1	ug/L
>	Rh	103	141276.471				ug/L
	Ag	107	41699.418	**30.643**	0.97	3.2	ug/L
	Cd	111	14293.426	**40.441**	0.34	0.8	ug/L
	Cd	114	34737.788	**40.826**	0.39	0.9	ug/L
>	In	115	224015.695				ug/L
	Sn	120	53851.173	**33.992**	2.33	6.9	ug/L
	Sb	121	47584.065	**41.222**	0.13	0.3	ug/L
	Ba	137	52920.818	**83.863**	0.68	0.8	ug/L
	Ba	138	334108.538	**84.944**	1.21	1.4	ug/L
>	Tb	159	305362.202				ug/L
	Tl	205	168267.779	**39.431**	0.15	0.4	ug/L
	Pb	208	313683.275	**98.110**	0.95	1.0	ug/L
	Hg	200	2492.877	**12.040**	0.55	4.5	ug/L
	Hg	201	1448.803	**12.046**	0.46	3.8	ug/L
>	Bi	209	239066.193				ug/L
	U	238	358233.301	**40.487**	0.30	0.7	ug/L
	C	13	3073.949				ug/L
	W	184	238.670				ug/L
	Pd	106	-169.341				ug/L
	Kr	83	8.667				ug/L
	Na	23	72067331.739	**89694.666**	3428.73	3.8	ug/L
	Mg	24	11063134.121	**21514.348**	977.49	4.5	ug/L

K	39	15124808.218	**18722.598**	233.64	1.2	ug/L
Ca	44	1047119.031	**36084.118**	1069.71	3.0	ug/L
Ti	47	690.032				ug/L
Sc-1	45	166577.404				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		98.918
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		87.912
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		86.060
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		90.215
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		89.892
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		84.863
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Matrix Spike Duplicate

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-MSD1

Sample Date/Time: Wednesday, July 26, 2017 01:20:12
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 302
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1192.092	**36.180**	1.85	5.1	ug/L
	B	11	30143.018	**504.219**	10.99	2.2	ug/L
	Al	27	259571.854	**313.931**	12.70	4.0	ug/L
>	Sc	45	165223.107				ug/L
	V	51	53731.054	**38.234**	0.35	0.9	ug/L
	Cr	52	46414.978	**36.766**	0.41	1.1	ug/L
	Cr	53	10974.828	**-13.484**	0.71	5.3	ug/L
	Mn	55	439561.499	**217.446**	0.89	0.4	ug/L
	Co	59	44608.701	**35.782**	0.28	0.8	ug/L
	Ni	60	22293.598	**89.099**	1.24	1.4	ug/L
	Cu	63	45598.833	**96.201**	1.39	1.4	ug/L
	Cu	65	20673.079	**96.277**	0.21	0.2	ug/L
	Zn	66	15336.951	**109.922**	1.86	1.7	ug/L
	Zn	68	10748.175	**110.662**	1.60	1.4	ug/L
>	Ge	72	117550.849				ug/L
	As	75	16179.293	**117.225**	1.61	1.4	ug/L
	Se	77	1839.053	**94.464**	3.49	3.7	ug/L
	Se	82	2173.062	**116.566**	1.54	1.3	ug/L
	Sr	88	1306977.327	**505.823**	5.13	1.0	ug/L
	Mo	98	26673.926	**41.630**	0.81	1.9	ug/L
>	Rh	103	142464.493				ug/L
	Ag	107	41610.245	**30.314**	0.32	1.0	ug/L
	Cd	111	14223.032	**40.037**	0.95	2.4	ug/L
	Cd	114	34765.024	**40.646**	0.44	1.1	ug/L
>	In	115	225191.145				ug/L
	Sn	120	55755.562	**35.034**	1.79	5.1	ug/L
	Sb	121	48225.375	**41.565**	0.47	1.1	ug/L
	Ba	137	53554.834	**84.507**	1.48	1.8	ug/L
	Ba	138	337439.588	**85.426**	0.83	1.0	ug/L
>	Tb	159	306669.713				ug/L
	Tl	205	167594.959	**39.110**	0.81	2.1	ug/L
	Pb	208	313733.855	**97.712**	1.08	1.1	ug/L
	Hg	200	2624.913	**12.614**	0.37	2.9	ug/L
	Hg	201	1453.471	**12.024**	0.11	0.9	ug/L
>	Bi	209	240201.694				ug/L
	U	238	356922.634	**40.149**	0.14	0.3	ug/L
	C	13	2793.851				ug/L
	W	184	240.004				ug/L
	Pd	106	-93.141				ug/L
	Kr	83	9.333				ug/L
	Na	23	73787969.102	**91836.248**	4108.91	4.5	ug/L
	Mg	24	11187576.529	**21756.356**	1197.85	5.5	ug/L

K	39	15242277.388	**18868.580**	475.72	2.5	ug/L
Ca	44	1051122.692	**36222.155**	320.39	0.9	ug/L
Ti	47	780.040				ug/L
Sc-1	45	165223.107				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		98.114
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		88.634
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		86.784
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		90.688
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		90.277
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		85.267
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Lab Control Sample

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-BS1

Sample Date/Time: Wednesday, July 26, 2017 00:59:26
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 153
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1305.778	**39.610**	0.71	1.8	ug/L
	B	11	23834.997	**396.773**	14.31	3.6	ug/L
	Al	27	251073.183	**303.884**	2.78	0.9	ug/L
>	Sc	45	165145.148				ug/L
	V	51	55133.287	**39.282**	0.58	1.5	ug/L
	Cr	52	49695.208	**39.527**	1.13	2.9	ug/L
	Cr	53	18054.667	**41.794**	3.41	8.2	ug/L
	Mn	55	199625.588	**98.773**	2.29	2.3	ug/L
	Co	59	49475.975	**39.732**	1.05	2.6	ug/L
	Ni	60	24970.136	**99.903**	2.39	2.4	ug/L
	Cu	63	52313.321	**101.612**	0.48	0.5	ug/L
	Cu	65	23614.870	**101.233**	0.17	0.2	ug/L
	Zn	66	14946.511	**98.572**	0.18	0.2	ug/L
	Zn	68	10736.159	**101.687**	1.38	1.4	ug/L
>	Ge	72	127709.760				ug/L
	As	75	14530.834	**96.913**	0.92	0.9	ug/L
	Se	77	2037.603	**97.475**	1.77	1.8	ug/L
	Se	82	1938.846	**95.615**	1.25	1.3	ug/L
	Sr	88	20333.184	**0.256**	0.12	45.0	ug/L
	Mo	98	27163.544	**37.971**	0.33	0.9	ug/L
>	Rh	103	159081.607				ug/L
	Ag	107	60170.560	**39.268**	0.69	1.8	ug/L
	Cd	111	15249.408	**40.203**	0.33	0.8	ug/L
	Cd	114	36250.699	**39.700**	0.30	0.7	ug/L
>	In	115	240404.298				ug/L
	Sn	120	66933.295	**39.411**	0.71	1.8	ug/L
	Sb	121	49610.163	**40.039**	0.57	1.4	ug/L
	Ba	137	27353.531	**40.241**	0.29	0.7	ug/L
	Ba	138	171215.948	**40.417**	0.66	1.6	ug/L
>	Tb	159	328778.661				ug/L
	Tl	205	188749.876	**41.088**	0.41	1.0	ug/L
	Pb	208	351598.602	**102.157**	1.34	1.3	ug/L
	Hg	200	2845.749	**11.934**	0.14	1.2	ug/L
	Hg	201	1627.506	**11.747**	0.28	2.4	ug/L
>	Bi	209	275213.474				ug/L
	U	238	379853.846	**37.295**	0.35	0.9	ug/L
	C	13	453.347				ug/L
	W	184	17.333				ug/L
	Pd	106	-127.205				ug/L
	Kr	83	7.667				ug/L
	Na	23	52982.670	**62.384**	5.48	8.8	ug/L
	Mg	24	2397.041	**4.130**	0.33	8.0	ug/L

K	39	63050.734	**4.935**	1.41	28.5	ug/L
Ca	44	2230.326	**58.623**	7.95	13.6	ug/L
Ti	47	73.334				ug/L
Sc-1	45	165145.148				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		98.067
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		96.293
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		96.906
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		96.815
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		96.785
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		97.695
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Serial Dilution

Quantitative Analysis - Summary Report

Analyst: ARD
Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-SRD1 @5

Sample Date/Time: Wednesday, July 26, 2017 01:13:16
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.412
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 157
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1.333	**0.010**	0.03	344.0	ug/L
	B	11	2632.451	**35.210**	1.27	3.6	ug/L
	Al	27	5231.779	**4.665**	0.08	1.7	ug/L
>	Sc	45	166988.933				ug/L
	V	51	1605.846	**0.523**	0.21	40.7	ug/L
	Cr	52	2310.180	**0.174**	0.08	45.5	ug/L
	Cr	53	11761.822	**-8.308**	0.71	8.5	ug/L
	Mn	55	56925.260	**27.722**	0.48	1.7	ug/L
	Co	59	58.667	**0.031**	0.00	12.1	ug/L
	Ni	60	130.668	**0.387**	0.06	14.3	ug/L
	Cu	63	178.335	**0.303**	0.02	7.4	ug/L
	Cu	65	66.000	**0.223**	0.04	16.3	ug/L
	Zn	66	218.003	**1.012**	0.06	5.6	ug/L
	Zn	68	192.669	**1.139**	0.10	8.6	ug/L
>	Ge	72	124593.687				ug/L
	As	75	249.362	**1.603**	0.38	23.7	ug/L
	Se	77	742.536	**0.990**	1.82	184.0	ug/L
	Se	82	18.609	**0.252**	0.15	58.5	ug/L
	Sr	88	287364.596	**99.302**	1.17	1.2	ug/L
	Mo	98	314.089	**0.431**	0.04	9.6	ug/L
>	Rh	103	149921.892				ug/L
	Ag	107	8.000	**-0.003**	0.00	48.9	ug/L
	Cd	111	2.618	**0.004**	0.01	234.7	ug/L
	Cd	114	7.149	**-0.001**	0.01	839.9	ug/L
>	In	115	233250.048				ug/L
	Sn	120	257.860	**0.041**	0.04	88.5	ug/L
	Sb	121	316.673	**-0.197**	0.02	8.7	ug/L
	Ba	137	5947.421	**9.088**	0.07	0.7	ug/L
	Ba	138	36694.466	**8.991**	0.18	2.0	ug/L
>	Tb	159	315871.700				ug/L
	Tl	205	23.667	**-0.011**	0.00	7.3	ug/L
	Pb	208	169.669	**0.045**	0.00	7.6	ug/L
	Hg	200	36.274	**0.076**	0.06	84.8	ug/L
	Hg	201	19.333	**0.082**	0.05	59.1	ug/L
>	Bi	209	260519.496				ug/L
	U	238	417.011	**0.039**	0.00	10.2	ug/L
	C	13	860.050				ug/L
	W	184	61.331				ug/L
	Pd	106	-0.326				ug/L
	Kr	83	6.667				ug/L
	Na	23	16504431.798	**20538.594**	792.99	3.9	ug/L
	Mg	24	2521488.802	**4903.099**	150.98	3.1	ug/L

K	39	3483899.006	**4256.118**	68.67	1.6	ug/L
Ca	44	235976.106	**8117.670**	191.57	2.4	ug/L
Ti	47	166.669				ug/L
Sc-1	45	166988.933				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		99.162
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		93.944
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		91.327
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		93.934
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		92.986
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		92.479
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000199	0.000	0.999989	Linear Thru Zero
B	11.009	0.000355	0.000	0.999923	Linear Thru Zero
Al	26.982	0.004976	0.000	0.999685	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.008368	0.000	0.999898	Linear Thru Zero
Cr	51.941	0.007300	0.000	0.999918	Linear Thru Zero
Cr	52.941	0.000777	0.000	0.998586	Linear Thru Zero
Mn	54.938	0.012224	0.000	0.999983	Linear Thru Zero
Co	58.933	0.007542	0.000	0.999959	Linear Thru Zero
Ni	59.933	0.001512	0.000	0.999982	Linear Thru Zero
Cu	62.930	0.004029	0.000	0.999980	Linear Thru Zero
Cu	64.928	0.001825	0.000	0.999977	Linear Thru Zero
Zn	65.926	0.001182	0.000	0.999953	Linear Thru Zero
Zn	67.925	0.000821	0.000	0.999928	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001173	0.000	0.999911	Linear Thru Zero
Se	76.920	0.000104	0.000	0.999937	Linear Thru Zero
Se	81.917	0.000158	0.000	0.999896	Linear Thru Zero
Sr	87.906	0.021677	0.000	0.999923	Linear Thru Zero
Mo	97.906	0.004494	0.000	0.999904	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009632	0.000	0.999959	Linear Thru Zero
Cd	110.904	0.001578	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003798	0.000	0.999956	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.007045	0.000	0.999913	Linear Thru Zero
Sb	120.904	0.005096	0.000	0.999470	Linear Thru Zero
Ba	136.905	0.002066	0.000	0.999965	Linear Thru Zero
Ba	137.905	0.012877	0.000	0.999967	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013969	0.000	0.999983	Linear Thru Zero
Pb	207.977	0.010470	0.000	0.999980	Linear Thru Zero
Hg	199.968	0.000860	0.000	0.999933	Linear Thru Zero
Hg	200.970	0.000500	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037008	0.000	0.999749	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	803.442107	0.000	0.999525	Linear Thru Zero
Mg	23.985	514.208510	0.000	0.999076	Linear Thru Zero
K	38.964	804.681537	0.000	0.999903	Linear Thru Zero
Ca	43.956	29.004146	0.000	0.999971	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: B[G2000-SRD2 @5

Sample Date/Time: Wednesday, July 26, 2017 17:31:09
Sample File: C:\Elandata\Sample\PE_EL2_170726.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.535
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 306
Report Filename PE_EL2_170726.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	1.000	**0.027**	0.03	99.6	ug/L
	B	11	3298.044	**30.167**	2.34	7.8	ug/L
	Al	27	8498.748	**7.012**	1.24	17.7	ug/L
>	Sc	45	180475.224				ug/L
	V	51	2182.428	**1.424**	0.16	11.2	ug/L
	Cr	52	2146.466	**0.787**	0.08	9.8	ug/L
	Cr	53	13671.306	**-22.975**	1.91	8.3	ug/L
	Mn	55	55541.878	**30.171**	0.23	0.8	ug/L
	Co	59	85.334	**0.067**	0.01	13.8	ug/L
	Ni	60	174.002	**0.700**	0.01	1.9	ug/L
	Cu	63	207.003	**0.355**	0.05	12.9	ug/L
	Cu	65	82.000	**0.305**	0.04	13.8	ug/L
	Zn	66	427.012	**2.190**	0.16	7.4	ug/L
	Zn	68	351.341	**2.478**	0.18	7.4	ug/L
>	Ge	72	128250.474				ug/L
	As	75	221.217	**1.443**	0.51	35.3	ug/L
	Se	77	747.370	**-10.658**	2.83	26.5	ug/L
	Se	82	23.280	**-0.191**	0.37	191.9	ug/L
	Sr	88	323684.451	**91.892**	0.47	0.5	ug/L
	Mo	98	320.386	**0.466**	0.05	9.8	ug/L
>	Rh	103	154092.246				ug/L
	Ag	107	6.000	**-0.001**	0.00	4.8	ug/L
	Cd	111	1.794	**-0.004**	0.01	169.4	ug/L
	Cd	114	13.840	**0.012**	0.00	27.4	ug/L
>	In	115	245423.968				ug/L
	Sn	120	232.551	**0.017**	0.02	131.7	ug/L
	Sb	121	294.006	**0.035**	0.02	50.5	ug/L
	Ba	137	5787.963	**8.732**	0.04	0.4	ug/L
	Ba	138	37164.024	**8.915**	0.08	0.9	ug/L
>	Tb	159	360020.520				ug/L
	Tl	205	19.000	**-0.015**	0.00	4.7	ug/L
	Pb	208	239.337	**0.057**	0.00	6.1	ug/L
	Hg	200	10.390	**0.021**	0.01	29.6	ug/L
	Hg	201	5.333	**0.008**	0.03	316.0	ug/L
>	Bi	209	272796.742				ug/L
	U	238	429.012	**0.039**	0.00	8.2	ug/L
	C	13	1506.816				ug/L
	W	184	147.332				ug/L
	Pd	106	2.341				ug/L
	Kr	83	6.167				ug/L
	Na	23	24807366.323	**21492.057**	817.64	3.8	ug/L
	Mg	24	3606568.267	**5280.208**	237.74	4.5	ug/L

K	39	4003436.503	**4316.197**	36.75	0.9	ug/L
Ca	44	238604.363	**7521.162**	84.57	1.1	ug/L
Ti	47	170.002				ug/L
Sc-1	45	180475.224				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		92.607
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		105.695
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		103.624
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		97.897
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		106.779
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		93.352
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000205	0.000	0.999927	Linear Thru Zero
B	11.009	0.000499	0.000	0.999768	Linear Thru Zero
Al	26.982	0.005204	0.000	0.999784	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.006820	0.000	0.999949	Linear Thru Zero
Cr	51.941	0.005653	0.000	0.999993	Linear Thru Zero
Cr	52.941	0.000589	0.000	0.982715	Linear Thru Zero
Mn	54.938	0.010165	0.000	0.999959	Linear Thru Zero
Co	58.933	0.005889	0.000	0.999982	Linear Thru Zero
Ni	59.933	0.001147	0.000	0.999948	Linear Thru Zero
Cu	62.930	0.003786	0.000	0.999924	Linear Thru Zero
Cu	64.928	0.001761	0.000	0.999955	Linear Thru Zero
Zn	65.926	0.001137	0.000	0.999987	Linear Thru Zero
Zn	67.925	0.000810	0.000	0.999969	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001107	0.000	0.999980	Linear Thru Zero
Se	76.920	0.000117	0.000	0.999622	Linear Thru Zero
Se	81.917	0.000172	0.000	0.999968	Linear Thru Zero
Sr	87.906	0.025426	0.000	0.999874	Linear Thru Zero
Mo	97.906	0.004202	0.000	0.999912	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009292	0.000	0.999996	Linear Thru Zero
Cd	110.904	0.001342	0.000	0.999987	Linear Thru Zero
Cd	113.904	0.003263	0.000	0.999972	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006407	0.000	0.999977	Linear Thru Zero
Sb	120.904	0.004014	0.000	0.999647	Linear Thru Zero
Ba	136.905	0.001837	0.000	0.999996	Linear Thru Zero
Ba	137.905	0.011559	0.000	0.999996	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.013798	0.000	0.999990	Linear Thru Zero
Pb	207.977	0.010162	0.000	0.999974	Linear Thru Zero
Hg	199.968	0.000716	0.000	0.999907	Linear Thru Zero
Hg	200.970	0.000417	0.000	0.999955	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.035584	0.000	0.999854	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1153.956706	0.000	0.999791	Linear Thru Zero
Mg	23.985	682.965820	0.000	0.999766	Linear Thru Zero
K	38.964	918.615908	0.000	0.999932	Linear Thru Zero
Ca	43.956	31.687174	0.000	0.999952	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Interference Check

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: IFA1

Sample Date/Time: Tuesday, July 25, 2017 09:19:31
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 158
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	4.333	**0.106**	0.02	15.3	ug/L
	B	11	576.688	**1.769**	0.59	33.4	ug/L
	Al	27	101134670.574	**97193.578**	1432.55	1.5	ug/L
>	Sc	45	202239.342				ug/L
	V	51	2312.283	**0.444**	0.34	77.0	ug/L
	Cr	52	4656.912	**1.449**	0.14	9.8	ug/L
	Cr	53	17549.354	**8.991**	2.95	32.8	ug/L
	Mn	55	3647.531	**1.536**	0.05	3.0	ug/L
	Co	59	305.006	**0.213**	0.01	7.0	ug/L
	Ni	60	806.376	**2.850**	0.06	2.0	ug/L
	Cu	63	1215.764	**2.396**	0.21	8.6	ug/L
	Cu	65	798.041	**3.447**	0.07	2.0	ug/L
	Zn	66	915.388	**5.993**	0.08	1.4	ug/L
	Zn	68	280.672	**2.061**	0.31	15.2	ug/L
>	Ge	72	117677.278				ug/L
	As	75	6.427	**-0.041**	0.64	1580.5	ug/L
	Se	77	1269.272	**30.493**	3.02	9.9	ug/L
	Se	82	8.200	**-0.477**	0.29	60.7	ug/L
	Sr	88	48004.729	**10.379**	0.37	3.6	ug/L
	Mo	98	1557038.408	**2258.222**	17.49	0.8	ug/L
>	Rh	103	156581.843				ug/L
	Ag	107	393.343	**0.255**	0.02	9.1	ug/L
	Cd	111	192.900	**0.471**	0.32	68.6	ug/L
	Cd	114	2942.474	**2.964**	0.07	2.5	ug/L
>	In	115	280407.854				ug/L
	Sn	120	598.648	**0.223**	0.02	10.6	ug/L
	Sb	121	462.014	**0.139**	0.03	23.2	ug/L
	Ba	137	1208.557	**1.519**	0.01	1.0	ug/L
	Ba	138	7685.301	**1.558**	0.03	1.7	ug/L
>	Tb	159	367101.287				ug/L
	Tl	205	190.002	**0.022**	0.00	13.9	ug/L
	Pb	208	761.038	**0.187**	0.01	5.1	ug/L
	Hg	200	10.087	**0.026**	0.07	253.3	ug/L
	Hg	201	6.667	**0.048**	0.04	73.8	ug/L
>	Bi	209	260474.437				ug/L
	U	238	78.667	**0.007**	0.00	10.0	ug/L
	C	13	5995.674				ug/L
	W	184	1028.069				ug/L
	Pd	106	-150.068				ug/L
	Kr	83	34.500				ug/L
	Na	23	106253267.713	**85638.424**	2536.64	3.0	ug/L
	Mg	24	61404168.442	**80272.004**	2411.21	3.0	ug/L

K	39	115780224.181	**96295.236**	2272.74	2.4	ug/L
Ca	44	3964992.041	**88911.222**	1334.37	1.5	ug/L
Ti	47	288694.498				ug/L
Sc-1	45	202239.342				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		83.000
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		70.776
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		72.216
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		83.911
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		84.867
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		69.101
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Quantitative Analysis - Summary Report

Analyst: ARD

Instrument : ICPMS (PE-EL2)

Sample ID: IFB1

Sample Date/Time: Tuesday, July 25, 2017 09:25:52
Sample File: C:\Elandata\Sample\PE_EL2_170725.sam
Blank File: C:\Elandata\Dataset\2017 JUL (24-31)\Blank.192
Number of Replicates: 3
Dual Detector Mode: Dual
Method File: C:\Elandata\Method\BC Methods\200.8-6020 Bi (U, Hg, Th) Srspeedy.mth
Autosampler Position: 159
Report Filename PE_EL2_170725.TXT

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	**Conc. Mean**	Conc. SD	Conc. RSD	Sample Unit
	Be	9	3.333	**0.081**	0.06	77.3	ug/L
	B	11	544.686	**1.452**	0.42	29.0	ug/L
	Al	27	99687182.038	**96578.869**	1475.59	1.5	ug/L
>	Sc	45	200583.980				ug/L
	V	51	2189.807	**0.373**	0.34	90.8	ug/L
	Cr	52	30204.059	**20.884**	0.21	1.0	ug/L
	Cr	53	18741.816	**17.227**	1.02	5.9	ug/L
	Mn	55	46203.780	**20.488**	0.17	0.8	ug/L
	Co	59	25056.105	**18.292**	0.15	0.8	ug/L
	Ni	60	5436.922	**19.942**	0.21	1.0	ug/L
	Cu	63	10225.463	**20.501**	0.28	1.3	ug/L
	Cu	65	4898.894	**21.310**	0.19	0.9	ug/L
	Zn	66	3712.565	**25.735**	0.47	1.8	ug/L
	Zn	68	2109.623	**20.543**	0.61	3.0	ug/L
>	Ge	72	118241.970				ug/L
	As	75	2539.160	**18.222**	0.88	4.8	ug/L
	Se	77	1139.418	**20.769**	3.32	16.0	ug/L
	Se	82	-4.144	**-1.111**	0.42	37.4	ug/L
	Sr	88	47473.824	**10.101**	0.23	2.3	ug/L
	Mo	98	1544461.867	**2222.748**	4.57	0.2	ug/L
>	Rh	103	157784.562				ug/L
	Ag	107	29447.629	**19.217**	0.16	0.8	ug/L
	Cd	111	7525.973	**18.284**	0.02	0.1	ug/L
	Cd	114	21210.513	**21.425**	0.24	1.1	ug/L
>	In	115	280217.987				ug/L
	Sn	120	567.295	**0.208**	0.01	3.4	ug/L
	Sb	121	392.677	**0.083**	0.03	30.7	ug/L
	Ba	137	1215.943	**1.566**	0.05	3.0	ug/L
	Ba	138	7583.922	**1.574**	0.03	2.2	ug/L
>	Tb	159	358497.856				ug/L
	Tl	205	95.334	**0.004**	0.00	58.9	ug/L
	Pb	208	1436.468	**0.367**	0.02	4.4	ug/L
	Hg	200	12.845	**0.041**	0.02	41.5	ug/L
	Hg	201	8.667	**0.065**	0.01	17.1	ug/L
>	Bi	209	256926.836				ug/L
	U	238	90.667	**0.008**	0.00	8.4	ug/L
	C	13	6342.615				ug/L
	W	184	284.669				ug/L
	Pd	106	-277.659				ug/L
	Kr	83	35.667				ug/L
	Na	23	101838268.661	**82079.880**	3400.24	4.1	ug/L
	Mg	24	60592232.728	**79210.577**	2863.32	3.6	ug/L

K	39	113415178.229	**94327.282**	2501.20	2.7	ug/L
Ca	44	3867027.402	**86714.021**	1611.01	1.9	ug/L
Ti	47	279263.135				ug/L
Sc-1	45	200583.980				ug/L

QC Calculated Values

	Analyte	Mass	Duplicate Rel. % Difference	Int Std % Recovery
	Be	9		
	B	11		
	Al	27		
>	Sc	45		82.321
	V	51		
	Cr	52		
	Cr	53		
	Mn	55		
	Co	59		
	Ni	60		
	Cu	63		
	Cu	65		
	Zn	66		
	Zn	68		
>	Ge	72		71.116
	As	75		
	Se	77		
	Se	82		
	Sr	88		
	Mo	98		
>	Rh	103		72.771
	Ag	107		
	Cd	111		
	Cd	114		
>	In	115		83.854
	Sn	120		
	Sb	121		
	Ba	137		
	Ba	138		
>	Tb	159		82.878
	Tl	205		
	Pb	208		
	Hg	200		
	Hg	201		
>	Bi	209		68.160
	U	238		
	C	13		
	W	184		
	Pd	106		
	Kr	83		
	Na	23		
	Mg	24		
	K	39		
	Ca	44		

Ti	47	
Sc-1	45	

Calibration File Table

Analyte	Mass	Slope	Intercept	Corr Coeff	Curve Type
Be	9.012	0.000189	0.000	0.999894	Linear Thru Zero
B	11.009	0.000451	0.000	0.999791	Linear Thru Zero
Al	26.982	0.005144	0.000	0.999866	Linear Thru Zero
Sc	44.956	0.000000	0.000	0.000000	Linear Thru Zero
V	50.944	0.007701	0.000	0.999988	Linear Thru Zero
Cr	51.941	0.006562	0.000	0.999977	Linear Thru Zero
Cr	52.941	0.000810	0.000	0.994255	Linear Thru Zero
Mn	54.938	0.011200	0.000	0.999978	Linear Thru Zero
Co	58.933	0.006825	0.000	0.999989	Linear Thru Zero
Ni	59.933	0.001353	0.000	0.999971	Linear Thru Zero
Cu	62.930	0.004209	0.000	0.999939	Linear Thru Zero
Cu	64.928	0.001940	0.000	0.999951	Linear Thru Zero
Zn	65.926	0.001196	0.000	0.999989	Linear Thru Zero
Zn	67.925	0.000836	0.000	0.999983	Linear Thru Zero
Ge	71.922	0.000000	0.000	0.000000	Linear Thru Zero
As	74.922	0.001171	0.000	0.999998	Linear Thru Zero
Se	76.920	0.000119	0.000	0.999326	Linear Thru Zero
Se	81.917	0.000166	0.000	0.999983	Linear Thru Zero
Sr	87.906	0.023751	0.000	0.999899	Linear Thru Zero
Mo	97.906	0.004404	0.000	0.999960	Linear Thru Zero
Rh	102.905	0.000000	0.000	0.000000	Linear Thru Zero
Ag	106.905	0.009710	0.000	0.999991	Linear Thru Zero
Cd	110.904	0.001469	0.000	0.999986	Linear Thru Zero
Cd	113.904	0.003532	0.000	0.999982	Linear Thru Zero
In	114.904	0.000000	0.000	0.000000	Linear Thru Zero
Sn	119.902	0.006902	0.000	0.999995	Linear Thru Zero
Sb	120.904	0.004451	0.000	0.999992	Linear Thru Zero
Ba	136.905	0.002122	0.000	0.999985	Linear Thru Zero
Ba	137.905	0.013200	0.000	0.999957	Linear Thru Zero
Tb	158.925	0.000000	0.000	0.000000	Linear Thru Zero
Tl	204.975	0.014572	0.000	0.999909	Linear Thru Zero
Pb	207.977	0.010726	0.000	0.999911	Linear Thru Zero
Hg	199.968	0.000798	0.000	0.999971	Linear Thru Zero
Hg	200.970	0.000467	0.000	0.999802	Linear Thru Zero
Bi	208.980	0.000000	0.000	0.000000	Linear Thru Zero
U	238.050	0.037061	0.000	0.999870	Linear Thru Zero
C	13.003	0.000000	0.000	0.000000	Linear Thru Zero
W	183.951	0.000000	0.000	0.000000	Linear Thru Zero
Pd	105.903	0.000000	0.000	0.000000	Linear Thru Zero
Kr	82.914	0.000000	0.000	0.000000	Linear Thru Zero
Na	22.990	1240.675799	0.000	0.999600	Linear Thru Zero
Mg	23.985	764.947332	0.000	0.998990	Linear Thru Zero
K	38.964	1201.779047	0.000	0.999684	Linear Thru Zero
Ca	43.956	44.586108	0.000	0.999763	Linear Thru Zero
Ti	46.952	0.000000	0.000	0.000000	Linear Thru Zero
Sc-1	44.956	0.000000	0.000	0.000000	Linear Thru Zero

QC Out Of Limits

Measurement Type	Analyte	Mass	Out of Limits Message

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2000

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-12 D	m6020wb Dis Copper	7/25/2017 10:00AM	ARD	10	10					
1720018-12 D	m6020wb Dis Arsenic	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	m6020wb Dis Arsenic	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-03 I	m6020wb Dis Copper	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					

Laboratories, Inc.
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Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-04 L	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-04 L	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					

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Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-05 R	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-05 R	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-06 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					

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Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-07 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-07 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-08 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					

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Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-09 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Arsenic QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-09 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					

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Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-10 D	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-10 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-11 M	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					

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Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-12 P	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-12 P	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					

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Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-13 L	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-13 L	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Arsenic QC Na	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-14 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					

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Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-15 G	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Arsenic QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-15 G	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					

PREPARATION BENCH SHEET

B[G2000

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Metals - EPA 3005A | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-16 J	mm6020wb Dis Arsenic QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-16 J	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Nickel QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Silver QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Thallium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Lead QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Zinc QC Navy	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Molybdenum Q	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Vanadium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Cobalt QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Chromium QC	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Cadmium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Beryllium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Barium QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Arsenic QC Nav	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Antimony QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Selenium QC N	7/25/2017 10:00AM	ARD	10	10					
1720029-17 D	mm6020wb Dis Copper QC Nav	7/25/2017 10:00AM	ARD	10	10					
B[G2000-BLK1	QC	7/25/2017 10:00AM	ARD	10	10					
B[G2000-BLK2	QC	7/26/2017 6:00AM	ARD	10	10					
B[G2000-BLK3	QC	7/26/2017 6:00AM	ARD	10	10					
B[G2000-BS1	QC	7/25/2017 10:00AM	ARD	10	10	7G19011		200		
B[G2000-BS2	QC	7/26/2017 6:00AM	ARD	10	10	7G19011		200		
B[G2000-BS3	QC	7/26/2017 6:00AM	ARD	10	10	7G19011		200		

PREPARATION BENCH SHEET

B[G2000

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water

Prepared using: Metals - EPA 3005A

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
B[G2000-DUP1	QC	7/25/2017 10:00AM	ARD	10	10		1720029-03			
B[G2000-DUP2	QC	7/26/2017 6:00AM	ARD	10	10		1720029-03			
B[G2000-MS1	QC	7/25/2017 10:00AM	ARD	9.8	10	7G19011	1720029-03	200		
B[G2000-MS2	QC	7/26/2017 6:00AM	ARD	9.8	10	7G19011	1720029-03	200		
B[G2000-MSD1	QC	7/25/2017 10:00AM	ARD	9.8	10	7G19011	1720029-03	200		
B[G2000-MSD2	QC	7/26/2017 6:00AM	ARD	9.8	10	7G19011	1720029-03	200		

Spike Mixes	Description	Solvent	Prepared	Expires
7G19011	ICPMS Spike with B, Al, Hg, U	5% HNO3 & 5% HCL	7/19/2017 5 by Angelica Demac	10/19/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713122

Instrument: PE-EL2
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713122-ICV1	QC		1		7G25024		
1713122-ICB1	QC		2		6K21031		
1713122-CRL1	QC		3		7G21010		
1713122-CRL2	QC		4		7G21009		
1713122-CRL3	QC		5		7G21009		
1713122-IFA1	QC		6		7G14003		
1713122-IFB1	QC		7		7G14004		
1713122-CCV1	QC		8		7G19034		
1713122-CCB1	QC		9		6K21031		
1713122-CCVN	QC		10		7G19034		
1713122-CCBN	QC		11		6K21031		
B[G2000-BS1	QC		12				
B[G2000-BLK1	QC		13				
1720029-03	mm6020wb Dis Antimony QC N	I	14				
1720029-03	mm6020wb Dis Arsenic QC Nav	I	15				
1720029-03	mm6020wb Dis Barium QC Nav	I	16				
1720029-03	mm6020wb Dis Beryllium QC N	I	17				
1720029-03	mm6020wb Dis Cadmium QC N	I	18				
1720029-03	mm6020wb Dis Chromium QC N	I	19				
1720029-03	mm6020wb Dis Cobalt QC Navy	I	20				
1720029-03	mm6020wb Dis Copper QC Nav	I	21				
1720029-03	mm6020wb Dis Lead QC Navy	I	22				
1720029-03	mm6020wb Dis Molybdenum Q(	I	23				
1720029-03	mm6020wb Dis Nickel QC Navy	I	24				
1720029-03	mm6020wb Dis Selenium QC Na	I	25				
1720029-03	mm6020wb Dis Thallium QC Na	I	26				
1720029-03	mm6020wb Dis Vanadium QC N	I	27				
1720029-03	m6020wb Dis Copper	I	28				BatchQC
1720029-03	m6020wb Dis Arsenic	I	29				BatchQC
B[G2000-DUP1	QC		30				
B[G2000-MS1	QC		31				
B[G2000-MSD1	QC		32				
1713122-CCVO	QC		33		7G19034		
1713122-CCBO	QC		34		6K21031		
1720029-04	mm6020wb Dis Antimony QC N	L	35				
1720029-04	mm6020wb Dis Arsenic QC Nav	L	36				
1720029-04	mm6020wb Dis Barium QC Nav	L	37				
1720029-04	mm6020wb Dis Beryllium QC N	L	38				
1720029-04	mm6020wb Dis Cadmium QC N	L	39				

ANALYSIS SEQUENCE

1713122

Instrument: PE-EL2
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-04	mm6020wb Dis Chromium QC N	L	40				
1720029-04	mm6020wb Dis Cobalt QC Navy	L	41				
1720029-04	mm6020wb Dis Copper QC Nav	L	42				
1720029-04	mm6020wb Dis Lead QC Navy	L	43				
1720029-04	mm6020wb Dis Molybdenum Q(	L	44				
1720029-04	mm6020wb Dis Nickel QC Navy	L	45				
1720029-04	mm6020wb Dis Selenium QC Na	L	46				
1720029-04	mm6020wb Dis Thallium QC Na	L	47				
1720029-04	mm6020wb Dis Vanadium QC N	L	48				
1720029-05	mm6020wb Dis Antimony QC N	R	49				
1720029-05	mm6020wb Dis Arsenic QC Nav	R	50				
1720029-05	mm6020wb Dis Barium QC Nav	R	51				
1720029-05	mm6020wb Dis Beryllium QC N	R	52				
1720029-05	mm6020wb Dis Cadmium QC N	R	53				
1720029-05	mm6020wb Dis Chromium QC N	R	54				
1720029-05	mm6020wb Dis Cobalt QC Navy	R	55				
1720029-05	mm6020wb Dis Copper QC Nav	R	56				
1720029-05	mm6020wb Dis Lead QC Navy	R	57				
1720029-05	mm6020wb Dis Molybdenum Q(	R	58				
1720029-05	mm6020wb Dis Nickel QC Navy	R	59				
1720029-05	mm6020wb Dis Selenium QC Na	R	60				
1720029-05	mm6020wb Dis Thallium QC Na	R	61				
1720029-05	mm6020wb Dis Vanadium QC N	R	62				
1720029-08	mm6020wb Dis Antimony QC N	D	63				
1720029-08	mm6020wb Dis Arsenic QC Nav	D	64				
1720029-08	mm6020wb Dis Barium QC Nav	D	65				
1720029-08	mm6020wb Dis Beryllium QC N	D	66				
1720029-08	mm6020wb Dis Cadmium QC N	D	67				
1720029-08	mm6020wb Dis Chromium QC N	D	68				
1720029-08	mm6020wb Dis Cobalt QC Navy	D	69				
1720029-08	mm6020wb Dis Copper QC Nav	D	70				
1720029-08	mm6020wb Dis Lead QC Navy	D	71				
1720029-08	mm6020wb Dis Molybdenum Q(	D	72				
1720029-08	mm6020wb Dis Nickel QC Navy	D	73				
1720029-08	mm6020wb Dis Selenium QC Na	D	74				
1720029-08	mm6020wb Dis Thallium QC Na	D	75				
1720029-08	mm6020wb Dis Vanadium QC N	D	76				
1720029-09	mm6020wb Dis Antimony QC N	D	77				
1720029-09	mm6020wb Dis Arsenic QC Nav	D	78				

ANALYSIS SEQUENCE

1713122

Instrument: PE-EL2
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-09	mm6020wb Dis Barium QC Nav	D	79				
1720029-09	mm6020wb Dis Beryllium QC N	D	80				
1720029-09	mm6020wb Dis Cadmium QC N	D	81				
1720029-09	mm6020wb Dis Chromium QC N	D	82				
1720029-09	mm6020wb Dis Cobalt QC Navy	D	83				
1720029-09	mm6020wb Dis Copper QC Nav	D	84				
1720029-09	mm6020wb Dis Lead QC Navy	D	85				
1720029-09	mm6020wb Dis Molybdenum Q(	D	86				
1720029-09	mm6020wb Dis Nickel QC Navy	D	87				
1720029-09	mm6020wb Dis Selenium QC Na	D	88				
1720029-09	mm6020wb Dis Thallium QC Na	D	89				
1720029-09	mm6020wb Dis Vanadium QC N	D	90				
1720029-10	mm6020wb Dis Antimony QC N	D	91				
1720029-10	mm6020wb Dis Arsenic QC Nav	D	92				
1720029-10	mm6020wb Dis Barium QC Nav	D	93				
1720029-10	mm6020wb Dis Beryllium QC N	D	94				
1720029-10	mm6020wb Dis Cadmium QC N	D	95				
1720029-10	mm6020wb Dis Chromium QC N	D	96				
1720029-10	mm6020wb Dis Cobalt QC Navy	D	97				
1720029-10	mm6020wb Dis Copper QC Nav	D	98				
1720029-10	mm6020wb Dis Lead QC Navy	D	99				
1720029-10	mm6020wb Dis Molybdenum Q(	D	100				
1720029-10	mm6020wb Dis Nickel QC Navy	D	101				
1720029-10	mm6020wb Dis Selenium QC Na	D	102				
1720029-10	mm6020wb Dis Thallium QC Na	D	103				
1720029-10	mm6020wb Dis Vanadium QC N	D	104				
1720029-11	mm6020wb Dis Antimony QC N	M	105				
1720029-11	mm6020wb Dis Arsenic QC Nav	M	106				
1720029-11	mm6020wb Dis Barium QC Nav	M	107				
1720029-11	mm6020wb Dis Beryllium QC N	M	108				
1720029-11	mm6020wb Dis Cadmium QC N	M	109				
1720029-11	mm6020wb Dis Chromium QC N	M	110				
1720029-11	mm6020wb Dis Cobalt QC Navy	M	111				
1720029-11	mm6020wb Dis Copper QC Nav	M	112				
1720029-11	mm6020wb Dis Lead QC Navy	M	113				
1720029-11	mm6020wb Dis Molybdenum Q(	M	114				
1720029-11	mm6020wb Dis Nickel QC Navy	M	115				
1720029-11	mm6020wb Dis Selenium QC Na	M	116				
1720029-11	mm6020wb Dis Thallium QC Na	M	117				

ANALYSIS SEQUENCE

1713122

Instrument: PE-EL2
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-11	mm6020wb Dis Vanadium QC N	M	118				
1713122-CCVP	QC		119		7G19034		
1713122-CCBP	QC		120		6K21031		
1720029-12	mm6020wb Dis Antimony QC N	P	121				
1720029-12	mm6020wb Dis Arsenic QC Nav	P	122				
1720029-12	mm6020wb Dis Barium QC Nav	P	123				
1720029-12	mm6020wb Dis Beryllium QC N	P	124				
1720029-12	mm6020wb Dis Cadmium QC N	P	125				
1720029-12	mm6020wb Dis Chromium QC N	P	126				
1720029-12	mm6020wb Dis Cobalt QC Navy	P	127				
1720029-12	mm6020wb Dis Copper QC Nav	P	128				
1720029-12	mm6020wb Dis Lead QC Navy	P	129				
1720029-12	mm6020wb Dis Molybdenum Q(	P	130				
1720029-12	mm6020wb Dis Nickel QC Navy	P	131				
1720029-12	mm6020wb Dis Selenium QC Na	P	132				
1720029-12	mm6020wb Dis Thallium QC Na	P	133				
1720029-12	mm6020wb Dis Vanadium QC N	P	134				
1720029-13	mm6020wb Dis Antimony QC N	L	135				
1720029-13	mm6020wb Dis Arsenic QC Nav	L	136				
1720029-13	mm6020wb Dis Barium QC Nav	L	137				
1720029-13	mm6020wb Dis Beryllium QC N	L	138				
1720029-13	mm6020wb Dis Cadmium QC N	L	139				
1720029-13	mm6020wb Dis Chromium QC N	L	140				
1720029-13	mm6020wb Dis Cobalt QC Navy	L	141				
1720029-13	mm6020wb Dis Copper QC Nav	L	142				
1720029-13	mm6020wb Dis Lead QC Navy	L	143				
1720029-13	mm6020wb Dis Molybdenum Q(	L	144				
1720029-13	mm6020wb Dis Nickel QC Navy	L	145				
1720029-13	mm6020wb Dis Selenium QC Na	L	146				
1720029-13	mm6020wb Dis Thallium QC Na	L	147				
1720029-13	mm6020wb Dis Vanadium QC N	L	148				
1720029-14	mm6020wb Dis Antimony QC N	D	149				
1720029-14	mm6020wb Dis Arsenic QC Nav	D	150				
1720029-14	mm6020wb Dis Barium QC Nav	D	151				
1720029-14	mm6020wb Dis Beryllium QC N	D	152				
1720029-14	mm6020wb Dis Cadmium QC N	D	153				
1720029-14	mm6020wb Dis Chromium QC N	D	154				
1720029-14	mm6020wb Dis Cobalt QC Navy	D	155				
1720029-14	mm6020wb Dis Copper QC Nav	D	156				

ANALYSIS SEQUENCE

1713122

Instrument: PE-EL2
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-14	mm6020wb Dis Lead QC Navy	D	157				
1720029-14	mm6020wb Dis Molybdenum Q(	D	158				
1720029-14	mm6020wb Dis Nickel QC Navy	D	159				
1720029-14	mm6020wb Dis Selenium QC Na	D	160				
1720029-14	mm6020wb Dis Thallium QC Na	D	161				
1720029-14	mm6020wb Dis Vanadium QC N	D	162				
1720029-15	mm6020wb Dis Antimony QC N	G	163				
1720029-15	mm6020wb Dis Arsenic QC Nav	G	164				
1720029-15	mm6020wb Dis Barium QC Nav	G	165				
1720029-15	mm6020wb Dis Beryllium QC N	G	166				
1720029-15	mm6020wb Dis Cadmium QC N	G	167				
1720029-15	mm6020wb Dis Chromium QC N	G	168				
1720029-15	mm6020wb Dis Cobalt QC Navy	G	169				
1720029-15	mm6020wb Dis Copper QC Nav	G	170				
1720029-15	mm6020wb Dis Lead QC Navy	G	171				
1720029-15	mm6020wb Dis Molybdenum Q(	G	172				
1720029-15	mm6020wb Dis Nickel QC Navy	G	173				
1720029-15	mm6020wb Dis Selenium QC Na	G	174				
1720029-15	mm6020wb Dis Thallium QC Na	G	175				
1720029-15	mm6020wb Dis Vanadium QC N	G	176				
1720029-16	mm6020wb Dis Antimony QC N	J	177				
1720029-16	mm6020wb Dis Arsenic QC Nav	J	178				
1720029-16	mm6020wb Dis Barium QC Nav	J	179				
1720029-16	mm6020wb Dis Beryllium QC N	J	180				
1720029-16	mm6020wb Dis Cadmium QC N	J	181				
1720029-16	mm6020wb Dis Chromium QC N	J	182				
1720029-16	mm6020wb Dis Cobalt QC Navy	J	183				
1720029-16	mm6020wb Dis Copper QC Nav	J	184				
1720029-16	mm6020wb Dis Lead QC Navy	J	185				
1720029-16	mm6020wb Dis Molybdenum Q(	J	186				
1720029-16	mm6020wb Dis Nickel QC Navy	J	187				
1720029-16	mm6020wb Dis Selenium QC Na	J	188				
1720029-16	mm6020wb Dis Thallium QC Na	J	189				
1720029-16	mm6020wb Dis Vanadium QC N	J	190				
1720018-12	m6020wb Dis Copper	D	191				
1720018-12	m6020wb Dis Arsenic	D	192				
1713122-CCVQ	QC		193		7G19034		
1713122-CCBQ	QC		194		6K21031		

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **VOA**
Method: **EPA-8260B**

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
26MW03_170720	1720018-01
26MW08_170720	1720018-02
DUP06_170720	1720018-03
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-18_170720	1720018-09
M14-20D_170720	1720018-10
M14-21_170720	1720018-11
SB02_170720	1720018-12
EB17_170720	1720018-13
EB18_170720	1720018-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Benzene	0.083	0.16	0.50	ug/L
Bromobenzene	0.13	0.16	0.50	ug/L
Bromochloromethane	0.24	0.30	1.0	ug/L
Bromodichloromethane	0.14	0.30	0.50	ug/L
Bromoform	0.27	0.30	0.60	ug/L
Bromomethane	0.25	0.25	0.60	ug/L
n-Butylbenzene	0.11	0.16	0.50	ug/L
sec-Butylbenzene	0.15	0.16	0.50	ug/L
tert-Butylbenzene	0.13	0.16	0.50	ug/L
Carbon tetrachloride	0.18	0.20	0.50	ug/L
Chlorobenzene	0.093	0.16	0.50	ug/L
Chloroethane	0.14	0.16	0.50	ug/L
Chloroform	0.12	0.16	0.50	ug/L
Chloromethane	0.14	0.16	0.50	ug/L
2-Chlorotoluene	0.20	0.20	0.50	ug/L
4-Chlorotoluene	0.15	0.16	0.50	ug/L
Dibromochloromethane	0.13	0.16	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.44	0.50	1.0	ug/L
1,2-Dibromoethane	0.16	0.16	0.50	ug/L
Dibromomethane	0.24	0.30	1.0	ug/L
1,2-Dichlorobenzene	0.072	0.16	0.50	ug/L
1,3-Dichlorobenzene	0.15	0.16	0.50	ug/L
1,4-Dichlorobenzene	0.062	0.16	0.50	ug/L
Dichlorodifluoromethane	0.099	0.16	0.50	ug/L
1,1-Dichloroethane	0.11	0.16	0.50	ug/L
1,2-Dichloroethane	0.17	0.20	0.50	ug/L
1,1-Dichloroethene	0.18	0.20	0.50	ug/L
cis-1,2-Dichloroethene	0.085	0.16	0.50	ug/L
trans-1,2-Dichloroethene	0.15	0.16	0.50	ug/L
1,2-Dichloropropane	0.13	0.16	0.50	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
1,3-Dichloropropane	0.086	0.16	0.50	ug/L
2,2-Dichloropropane	0.13	0.16	0.50	ug/L
1,1-Dichloropropene	0.085	0.16	0.50	ug/L
cis-1,3-Dichloropropene	0.14	0.16	0.50	ug/L
trans-1,3-Dichloropropene	0.079	0.16	0.50	ug/L
Ethylbenzene	0.098	0.16	0.50	ug/L
Hexachlorobutadiene	0.17	0.20	0.50	ug/L
Isopropylbenzene	0.14	0.16	0.50	ug/L
p-Isopropyltoluene	0.12	0.16	0.50	ug/L
Methylene chloride	0.48	0.50	1.0	ug/L
Methyl t-butyl ether	0.11	0.16	0.50	ug/L
Naphthalene	0.36	0.40	0.50	ug/L
n-Propylbenzene	0.11	0.16	0.50	ug/L
Styrene	0.068	0.16	0.50	ug/L
1,1,1,2-Tetrachloroethane	0.18	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.17	0.20	0.50	ug/L
Tetrachloroethene	0.13	0.16	0.50	ug/L
Toluene	0.093	0.16	0.50	ug/L
1,2,3-Trichlorobenzene	0.16	0.16	0.50	ug/L
1,2,4-Trichlorobenzene	0.19	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.11	0.16	0.50	ug/L
1,1,2-Trichloroethane	0.16	0.16	0.50	ug/L
Trichloroethene	0.085	0.16	0.50	ug/L
Trichlorofluoromethane	0.13	0.16	0.50	ug/L
1,2,3-Trichloropropane	0.24	0.33	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	0.16	0.50	ug/L
1,2,4-Trimethylbenzene	0.12	0.16	0.50	ug/L
1,3,5-Trimethylbenzene	0.12	0.16	0.50	ug/L
Vinyl chloride	0.12	0.16	0.50	ug/L
Total Xylenes	0.36	0.46	1.0	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Acetone	4.6	5.0	10	ug/L
Acetonitrile	5.5	6.0	10	ug/L
Allyl chloride	0.80	1.0	5.0	ug/L
t-Amyl Methyl ether	0.25	0.30	0.50	ug/L
Benzyl chloride	0.60	0.60	1.0	ug/L
t-Butyl alcohol	9.4	10	12	ug/L
Carbon disulfide	0.38	0.40	1.0	ug/L
Chloroprene	0.37	1.0	5.0	ug/L
Diisopropyl ether	0.23	0.30	0.50	ug/L
Ethyl t-butyl ether	0.18	0.20	0.50	ug/L
2-Hexanone	3.4	4.0	10	ug/L
Methyl ethyl ketone	2.5	3.0	10	ug/L
Methyl isobutyl ketone	2.1	3.0	10	ug/L
Vinyl acetate	1.8	6.0	20	ug/L
p- & m-Xylenes	0.28	0.30	0.50	ug/L
o-Xylene	0.082	0.16	0.50	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW03_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-01
File ID: 24JUL50.D
Sampled: 07/20/17 13:50
Prepared: 07/24/17 12:00
Analyzed: 07/24/17 23:29
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.21	0.11	0.16	0.50	J
107-06-2	1,2-Dichloroethane	1	0.54	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	6.4	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.3	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW03_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-01			File ID:	24JUL50.D
Sampled:	07/20/17 13:50	Prepared:	07/24/17 12:00			Analyzed:	07/24/17 23:29
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	1.0	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW03_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-01			File ID:	24JUL50.D
Sampled:	07/20/17 13:50	Prepared:	07/24/17 12:00			Analyzed:	07/24/17 23:29
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.440	104	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9900	99.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9000	99.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	188566	6.58	195524	6.58	
Chlorobenzene-d5 (IS)	77944	9.61	76855	9.62	
1,4-Difluorobenzene (IS)	285586	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02
File ID: 24JUL51.D
Sampled: 07/20/17 13:25
Prepared: 07/24/17 12:00
Analyzed: 07/24/17 23:53
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	1.5	0.083	0.16	0.50	
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.22	0.17	0.20	0.50	J
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.37	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.46	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW08_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-02			File ID:	24JUL51.D
Sampled:	07/20/17 13:25	Prepared:	07/24/17 12:00			Analyzed:	07/24/17 23:53
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.18	0.14	0.16	0.50	J
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

26MW08_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-02			File ID:	24JUL51.D
Sampled:	07/20/17 13:25	Prepared:	07/24/17 12:00			Analyzed:	07/24/17 23:53
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	11.250	112	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8100	98.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9700	99.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	185680	6.58	195524	6.58	
Chlorobenzene-d5 (IS)	80779	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	296060	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-03
File ID: 24JUL52.D
Sampled: 07/20/17 09:45
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 00:16
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	1.4	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	1.1	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.30	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-03
File ID: 24JUL52.D
Sampled: 07/20/17 09:45
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 00:16
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

DUP06_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-03			File ID:	24JUL52.D
Sampled:	07/20/17 09:45	Prepared:	07/24/17 12:00			Analyzed:	07/25/17 00:16
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.5000	95.0	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9400	99.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5300	95.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	182723	6.57	195524	6.58	
Chlorobenzene-d5 (IS)	74781	9.61	76855	9.62	
1,4-Difluorobenzene (IS)	276152	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID: 24JUL53.D
Sampled: 07/20/17 08:35
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 00:39
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.25	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	8.6	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	1.9	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.75	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	2.0	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.25	0.13	0.16	0.50	J
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID: 24JUL53.D
Sampled: 07/20/17 08:35
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 00:39
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.41	0.12	0.16	0.50	J
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-06_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-04		File ID:	24JUL53.D	
Sampled:	07/20/17 08:35	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 00:39	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.8600	98.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.210	102	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.010	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	184363	6.57	195524	6.58	
Chlorobenzene-d5 (IS)	72214	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	271606	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID: 24JUL54.D
Sampled: 07/20/17 10:55
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 01:02
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	1.8	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	7.5	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID: 24JUL54.D
Sampled: 07/20/17 10:55
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 01:02
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	12	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-09D_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-05		File ID:	24JUL54.D	
Sampled:	07/20/17 10:55	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 01:02	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.4400	94.4	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9200	99.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.000	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	181915	6.58	195524	6.58	
Chlorobenzene-d5 (IS)	70781	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	273719	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-09S_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-06
File ID: 24JUL55.D
Sampled: 07/20/17 12:35
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 01:25
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.34	0.11	0.16	0.50	J
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.60	0.18	0.20	0.50	
156-59-2	cis-1,2-Dichloroethene	1	11	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	2.8	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-09S_170720

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720018-06	File ID:	24JUL55.D
Sampled:	07/20/17 12:35	Prepared:	07/24/17 12:00	Analyzed:	07/25/17 01:25
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	5.1	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	5.6	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-09S_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-06	File ID:	24JUL55.D		
Sampled:	07/20/17 12:35	Prepared:	07/24/17 12:00	Analyzed:	07/25/17 01:25		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.5100	95.1	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9300	99.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9100	99.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	177351	6.58	195524	6.58	
Chlorobenzene-d5 (IS)	69569	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	260503	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID: 24JUL56.D
Sampled: 07/20/17 09:40
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 01:48
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	1.3	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.29	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID: 24JUL56.D
Sampled: 07/20/17 09:40
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 01:48
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-14_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-07		File ID:	24JUL56.D	
Sampled:	07/20/17 09:40	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 01:48	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.6900	96.9	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.140	101	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.180	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	178961	6.57	195524	6.58	
Chlorobenzene-d5 (IS)	70197	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	264121	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID: 24JUL26.D
Sampled: 07/20/17 13:30
Prepared: 07/24/17 12:00
Analyzed: 07/24/17 14:17
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.25	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	3.7	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.64	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	36	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.63	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID: 24JUL26.D
Sampled: 07/20/17 13:30
Prepared: 07/24/17 12:00
Analyzed: 07/24/17 14:17
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	4.3	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-17R_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-08		File ID:	24JUL26.D	
Sampled:	07/20/17 13:30	Prepared:	07/24/17 12:00		Analyzed:	07/24/17 14:17	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.7600	97.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8800	98.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.210	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	182457	6.57	187472	6.57	
Chlorobenzene-d5 (IS)	74192	9.62	75257	9.62	
1,4-Difluorobenzene (IS)	279624	7.38	292956	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID: 24JUL57.D
Sampled: 07/20/17 12:00
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 02:11
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.29	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	5.6	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	10	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.21	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID: 24JUL57.D
Sampled: 07/20/17 12:00
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 02:11
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.54	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-18_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-09			File ID:	24JUL57.D
Sampled:	07/20/17 12:00	Prepared:	07/24/17 12:00			Analyzed:	07/25/17 02:11
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.150	102	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8300	98.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.080	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	171481	6.57	195524	6.58	
Chlorobenzene-d5 (IS)	67484	9.61	76855	9.62	
1,4-Difluorobenzene (IS)	258688	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID: 24JUL58.D
Sampled: 07/20/17 11:15
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 02:34
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.23	0.083	0.16	0.50	J
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	4.1	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	3.7	0.17	0.20	0.50	
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	7.6	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID: 24JUL58.D
Sampled: 07/20/17 11:15
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 02:34
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.52	0.16	0.16	0.50	
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	3.9	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-20D_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-10		File ID:	24JUL58.D	
Sampled:	07/20/17 11:15	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 02:34	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.640	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9200	99.2	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9100	99.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	174255	6.57	195524	6.58	
Chlorobenzene-d5 (IS)	71494	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	263916	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID: 24JUL59.D
Sampled: 07/20/17 10:20
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 02:57
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	1.0	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	5.7	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID: 24JUL59.D
Sampled: 07/20/17 10:20
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 02:57
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1712906
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-21_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-11			File ID:	24JUL59.D
Sampled:	07/20/17 10:20	Prepared:	07/24/17 12:00			Analyzed:	07/25/17 02:57
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.7600	97.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8700	98.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8700	98.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	177288	6.57	195524	6.58	
Chlorobenzene-d5 (IS)	72858	9.62	76855	9.62	
1,4-Difluorobenzene (IS)	274312	7.38	301296	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SB02_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-12
File ID: 25JUL01.D
Sampled: 07/20/17 11:10
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 05:38
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SB02_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-12
File ID: 25JUL01.D
Sampled: 07/20/17 11:10
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 05:38
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

SB02_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-12		File ID:	25JUL01.D	
Sampled:	07/20/17 11:10	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 05:38	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.010	100	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7000	97.0	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6100	96.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	185958	6.57	189099	6.57	
Chlorobenzene-d5 (IS)	74781	9.62	74567	9.61	
1,4-Difluorobenzene (IS)	285352	7.38	283395	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB17_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-13
File ID: 25JUL02.D
Sampled: 07/20/17 14:20
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 06:01
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB17_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-13			File ID:	25JUL02.D
Sampled:	07/20/17 14:20	Prepared:	07/24/17 12:00			Analyzed:	07/25/17 06:01
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G1853	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB17_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-13		File ID:	25JUL02.D	
Sampled:	07/20/17 14:20	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 06:01	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.6700	96.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8600	98.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7000	97.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	184699	6.57	189099	6.57	
Chlorobenzene-d5 (IS)	73730	9.61	74567	9.61	
1,4-Difluorobenzene (IS)	274016	7.38	283395	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-14
File ID: 25JUL03.D
Sampled: 07/20/17 14:25
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 06:24
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-14
File ID: 25JUL03.D
Sampled: 07/20/17 14:25
Prepared: 07/24/17 12:00
Analyzed: 07/25/17 06:24
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G1853
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB18_170720

Laboratory:	BC Laboratories			SDG:	17-20018		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720018-14		File ID:	25JUL03.D	
Sampled:	07/20/17 14:25	Prepared:	07/24/17 12:00		Analyzed:	07/25/17 06:24	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G1853	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.040	100	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8400	98.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.120	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	155121	6.57	189099	6.57	
Chlorobenzene-d5 (IS)	61668	9.61	74567	9.61	
1,4-Difluorobenzene (IS)	237540	7.38	283395	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1853
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW03_170720	1720018-01	24JUL50.D	07/24/17 12:00	Full SAP LIST
26MW08_170720	1720018-02	24JUL51.D	07/24/17 12:00	Full SAP LIST
DUP06_170720	1720018-03	24JUL52.D	07/24/17 12:00	Full SAP LIST
M14-06_170720	1720018-04	24JUL53.D	07/24/17 12:00	Full SAP LIST
M14-09D_170720	1720018-05	24JUL54.D	07/24/17 12:00	Full SAP LIST
M14-09S_170720	1720018-06	24JUL55.D	07/24/17 12:00	Full SAP LIST
M14-14_170720	1720018-07	24JUL56.D	07/24/17 12:00	Full SAP LIST
M14-17R_170720	1720018-08	24JUL26.D	07/24/17 12:00	Full SAP LIST
M14-18_170720	1720018-09	24JUL57.D	07/24/17 12:00	Full SAP LIST
M14-20D_170720	1720018-10	24JUL58.D	07/24/17 12:00	Full SAP LIST
M14-21_170720	1720018-11	24JUL59.D	07/24/17 12:00	Full SAP LIST
SB02_170720	1720018-12	25JUL01.D	07/24/17 12:00	Full SAP LIST
EB17_170720	1720018-13	25JUL02.D	07/24/17 12:00	Full SAP LIST
EB18_170720	1720018-14	25JUL03.D	07/24/17 12:00	Full SAP LIST
Blank	B[G1853-BLK1	24JUL25.D	07/24/17 12:00	
LCS	B[G1853-BS1	24JUL27.D	07/24/17 12:00	
M14-17R_170720	B[G1853-MS1	24JUL28.D	07/24/17 12:00	
M14-17R_170720	B[G1853-MSD1	24JUL29.D	07/24/17 12:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1853-BLK1	File ID:	24JUL25.D
Prepared:	07/24/17 12:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/24/17 13:54	Instrument:	MS-V5		
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	0.16	0.099	0.16	0.50	U

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1853-BLK1	File ID:	24JUL25.D
Prepared:	07/24/17 12:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/24/17 13:54	Instrument:	MS-V5		
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-34-3	1,1-Dichloroethane	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	0.16	0.13	0.16	0.50	U
563-58-6	1,1-Dichloropropene	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.19	0.20	0.50	U

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1853-BLK1	File ID:	24JUL25.D
Prepared:	07/24/17 12:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/24/17 13:54	Instrument:	MS-V5		
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-55-6	1,1,1-Trichloroethane	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	10	9.4	10	12	U
75-15-0	Carbon disulfide	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.6300	96.3	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.090	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	185355	6.57	187472	6.57	

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Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1853-BLK1	File ID:	24JUL25.D
Prepared:	07/24/17 12:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/24/17 13:54	Instrument:	MS-V5		
Batch:	B[G1853	Sequence:	1712906	Calibration:	1707017

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	74719	9.61	75257	9.62	
1,4-Difluorobenzene (IS)	287767	7.38	292956	7.38	

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Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	0.25000	29.110	115	79 - 120
Bromobenzene	25.000	ND	29.720	119	80 - 120
Bromochloromethane	25.000	ND	28.870	115	78 - 123
Bromodichloromethane	25.000	ND	28.280	113	79 - 125
Bromoform	25.000	ND	31.510	126	66 - 130
Bromomethane	25.000	ND	24.840	99.4	53 - 141
n-Butylbenzene	25.000	ND	29.320	117	75 - 128
sec-Butylbenzene	25.000	ND	29.990	120	77 - 126
tert-Butylbenzene	25.000	ND	28.480	114	78 - 124
Carbon tetrachloride	25.000	ND	29.860	119	72 - 136
Chlorobenzene	25.000	ND	26.490	106	82 - 118
Chloroethane	25.000	ND	27.740	111	60 - 138
Chloroform	25.000	ND	27.810	111	79 - 124
Chloromethane	25.000	ND	23.950	95.8	50 - 139
2-Chlorotoluene	25.000	ND	27.770	111	79 - 122
4-Chlorotoluene	25.000	ND	27.420	110	78 - 122
Dibromochloromethane	25.000	ND	30.760	123	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	28.260	113	62 - 128
1,2-Dibromoethane	25.000	ND	29.610	118	77 - 121
Dibromomethane	25.000	ND	29.850	119	79 - 123
1,2-Dichlorobenzene	25.000	ND	27.130	109	80 - 119
1,3-Dichlorobenzene	25.000	ND	27.420	110	80 - 119
1,4-Dichlorobenzene	25.000	ND	27.670	111	79 - 118
Dichlorodifluoromethane	25.000	ND	28.770	115	32 - 152
1,1-Dichloroethane	25.000	3.7100	31.940	113	77 - 125

AMEC Environmental & Infrastructure-
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Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	0.64000	27.680	108	73 - 128
1,1-Dichloroethene	25.000	ND	30.710	123	71 - 131
cis-1,2-Dichloroethene	25.000	36.010	62.870	107	78 - 123
trans-1,2-Dichloroethene	25.000	0.63000	30.920	121	75 - 124
1,2-Dichloropropane	25.000	ND	28.170	113	78 - 122
1,3-Dichloropropane	25.000	ND	27.760	111	80 - 119
2,2-Dichloropropane	25.000	ND	30.930	124	60 - 139
1,1-Dichloropropene	25.000	ND	28.710	115	79 - 125
cis-1,3-Dichloropropene	25.000	ND	29.950	120	75 - 124
trans-1,3-Dichloropropene	25.000	ND	31.160	125	73 - 127
Ethylbenzene	25.000	ND	29.140	117	79 - 121
Hexachlorobutadiene	25.000	ND	28.270	113	66 - 134
Isopropylbenzene	25.000	ND	29.350	117	72 - 131
p-Isopropyltoluene	25.000	ND	29.430	118	77 - 127
Methylene chloride	25.000	ND	28.250	113	74 - 124
Methyl t-butyl ether	25.000	ND	28.740	115	71 - 124
Naphthalene	25.000	ND	31.510	126	61 - 128
n-Propylbenzene	25.000	ND	27.380	110	76 - 126
Styrene	25.000	ND	30.430	122	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	30.750	123	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	30.170	121	71 - 121
Tetrachloroethene	25.000	ND	29.930	120	74 - 129
Toluene	25.000	ND	29.070	116	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	31.050	124	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	31.060	124	69 - 130

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	ND	29.090	116	74 - 131
1,1,2-Trichloroethane	25.000	ND	27.900	112	80 - 119
Trichloroethene	25.000	0.13000	29.720	118	79 - 123
Trichlorofluoromethane	25.000	ND	28.830	115	65 - 141
1,2,3-Trichloropropane	25.000	ND	30.910	124 *	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	31.560	126	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	28.900	116	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	29.760	119	75 - 124
Vinyl chloride	25.000	4.2700	33.660	118	58 - 137
Total Xylenes	75.000	ND	86.110	115	79 - 121
Acetone	320.00	ND	318.76	99.6	39 - 160
Acetonitrile	160.00	ND	181.14	113	50 - 142
Allyl chloride	32.000	ND	32.800	102	68 - 130
t-Amyl Methyl ether	16.000	ND	17.210	108	68 - 128
Benzyl chloride	32.000	ND	41.470	130	42 - 138
t-Butyl alcohol	800.00	ND	930.79	116	68 - 129
Carbon disulfide	32.000	ND	34.680	108	64 - 133
Chloroprene	32.000	ND	31.970	99.9	65 - 135
Diisopropyl ether	16.000	ND	17.770	111	67 - 128
Ethyl t-butyl ether	16.000	ND	16.440	103	70 - 127
2-Hexanone	320.00	ND	345.39	108	57 - 139
Methyl ethyl ketone	160.00	ND	167.85	105	56 - 143
Methyl isobutyl ketone	160.00	ND	176.09	110	67 - 130
Vinyl acetate	160.00	ND	171.62	107	54 - 146

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	29.440	117	1.13	30	79 - 120
Bromobenzene	25.000	28.840	115	3.01	30	80 - 120
Bromochloromethane	25.000	29.290	117	1.44	30	78 - 123
Bromodichloromethane	25.000	27.680	111	2.14	30	79 - 125
Bromoform	25.000	33.390	134 *	5.79	30	66 - 130
Bromomethane	25.000	26.790	107	7.55	30	53 - 141
n-Butylbenzene	25.000	28.900	116	1.44	30	75 - 128
sec-Butylbenzene	25.000	29.390	118	2.02	30	77 - 126
tert-Butylbenzene	25.000	27.960	112	1.84	30	78 - 124
Carbon tetrachloride	25.000	30.560	122	2.32	30	72 - 136
Chlorobenzene	25.000	26.290	105	0.758	30	82 - 118
Chloroethane	25.000	28.090	112	1.25	30	60 - 138
Chloroform	25.000	28.140	113	1.18	30	79 - 124
Chloromethane	25.000	23.420	93.7	2.24	30	50 - 139
2-Chlorotoluene	25.000	26.850	107	3.37	30	79 - 122
4-Chlorotoluene	25.000	26.740	107	2.51	30	78 - 122
Dibromochloromethane	25.000	30.300	121	1.51	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	30.470	122	7.53	30	62 - 128
1,2-Dibromoethane	25.000	30.240	121	2.11	30	77 - 121
Dibromomethane	25.000	29.480	118	1.25	30	79 - 123
1,2-Dichlorobenzene	25.000	26.930	108	0.740	30	80 - 119
1,3-Dichlorobenzene	25.000	27.080	108	1.25	30	80 - 119
1,4-Dichlorobenzene	25.000	27.680	111	0.0361	30	79 - 118
Dichlorodifluoromethane	25.000	29.050	116	0.969	30	32 - 152
1,1-Dichloroethane	25.000	31.820	112	0.376	30	77 - 125
1,2-Dichloroethane	25.000	27.580	108	0.362	30	73 - 128

AMEC Environmental & Infrastructure-
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Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	30.980	124	0.875	30	71 - 131
cis-1,2-Dichloroethene	25.000	63.820	111	1.50	30	78 - 123
trans-1,2-Dichloroethene	25.000	31.190	122	0.869	30	75 - 124
1,2-Dichloropropane	25.000	27.330	109	3.03	30	78 - 122
1,3-Dichloropropane	25.000	27.850	111	0.324	30	80 - 119
2,2-Dichloropropane	25.000	30.250	121	2.22	30	60 - 139
1,1-Dichloropropene	25.000	28.240	113	1.65	30	79 - 125
cis-1,3-Dichloropropene	25.000	29.620	118	1.11	30	75 - 124
trans-1,3-Dichloropropene	25.000	30.000	120	3.79	30	73 - 127
Ethylbenzene	25.000	28.890	116	0.862	30	79 - 121
Hexachlorobutadiene	25.000	27.740	111	1.89	30	66 - 134
Isopropylbenzene	25.000	28.830	115	1.79	30	72 - 131
p-Isopropyltoluene	25.000	29.190	117	0.819	30	77 - 127
Methylene chloride	25.000	28.380	114	0.459	30	74 - 124
Methyl t-butyl ether	25.000	29.270	117	1.83	30	71 - 124
Naphthalene	25.000	31.680	127	0.538	30	61 - 128
n-Propylbenzene	25.000	27.040	108	1.25	30	76 - 126
Styrene	25.000	29.530	118	3.00	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	29.900	120	2.80	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	31.020	124 *	2.78	30	71 - 121
Tetrachloroethene	25.000	29.510	118	1.41	30	74 - 129
Toluene	25.000	28.700	115	1.28	30	80 - 121
1,2,3-Trichlorobenzene	25.000	31.360	125	0.993	30	69 - 129
1,2,4-Trichlorobenzene	25.000	30.850	123	0.678	30	69 - 130
1,1,1-Trichloroethane	25.000	29.490	118	1.37	30	74 - 131
1,1,2-Trichloroethane	25.000	28.530	114	2.23	30	80 - 119

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	28.870	115	2.90	30	79 - 123
Trichlorofluoromethane	25.000	29.000	116	0.588	30	65 - 141
1,2,3-Trichloropropane	25.000	32.170	129 *	3.99	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	30.920	124	2.05	30	70 - 136
1,2,4-Trimethylbenzene	25.000	28.200	113	2.45	30	76 - 124
1,3,5-Trimethylbenzene	25.000	29.410	118	1.18	30	75 - 124
Vinyl chloride	25.000	32.610	113	3.17	30	58 - 137
Total Xylenes	75.000	84.490	113	1.90	30	79 - 121
Acetone	320.00	353.45	110	10.3	30	39 - 160
Acetonitrile	160.00	201.75	126	10.8	30	50 - 142
Allyl chloride	32.000	38.200	119	15.2	30	68 - 130
t-Amyl Methyl ether	16.000	18.630	116	7.92	30	68 - 128
Benzyl chloride	32.000	47.780	149 *	14.1	30	42 - 138
t-Butyl alcohol	800.00	1023.9	128	9.52	30	68 - 129
Carbon disulfide	32.000	40.030	125	14.3	30	64 - 133
Chloroprene	32.000	37.320	117	15.4	30	65 - 135
Diisopropyl ether	16.000	19.140	120	7.42	30	67 - 128
Ethyl t-butyl ether	16.000	17.660	110	7.16	30	70 - 127
2-Hexanone	320.00	365.43	114	5.64	30	57 - 139
Methyl ethyl ketone	160.00	185.84	116	10.2	30	56 - 143
Methyl isobutyl ketone	160.00	187.21	117	6.12	30	67 - 130
Vinyl acetate	160.00	184.06	115	7.00	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	25.030	100	79 - 120
Bromobenzene	25.000	25.260	101	80 - 120
Bromochloromethane	25.000	24.760	99.0	78 - 123
Bromodichloromethane	25.000	25.100	100	79 - 125
Bromoform	25.000	26.900	108	66 - 130
Bromomethane	25.000	19.770	79.1	53 - 141
n-Butylbenzene	25.000	26.120	104	75 - 128
sec-Butylbenzene	25.000	26.520	106	77 - 126
tert-Butylbenzene	25.000	25.060	100	78 - 124
Carbon tetrachloride	25.000	25.120	100	72 - 136
Chlorobenzene	25.000	23.600	94.4	82 - 118
Chloroethane	25.000	24.100	96.4	60 - 138
Chloroform	25.000	25.360	101	79 - 124
Chloromethane	25.000	20.160	80.6	50 - 139
2-Chlorotoluene	25.000	24.460	97.8	79 - 122
4-Chlorotoluene	25.000	24.530	98.1	78 - 122
Dibromochloromethane	25.000	27.020	108	74 - 126
1,2-Dibromo-3-chloropropane	25.000	24.550	98.2	62 - 128
1,2-Dibromoethane	25.000	25.610	102	77 - 121
Dibromomethane	25.000	25.260	101	79 - 123
1,2-Dichlorobenzene	25.000	23.670	94.7	80 - 119
1,3-Dichlorobenzene	25.000	23.900	95.6	80 - 119
1,4-Dichlorobenzene	25.000	24.090	96.4	79 - 118
Dichlorodifluoromethane	25.000	25.220	101	32 - 152

AMEC Environmental & Infrastructure-
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LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	24.560	98.2	77 - 125
1,2-Dichloroethane	25.000	23.990	96.0	73 - 128
1,1-Dichloroethene	25.000	26.500	106	71 - 131
cis-1,2-Dichloroethene	25.000	25.020	100	78 - 123
trans-1,2-Dichloroethene	25.000	25.910	104	75 - 124
1,2-Dichloropropane	25.000	25.370	101	78 - 122
1,3-Dichloropropane	25.000	24.740	99.0	80 - 119
2,2-Dichloropropane	25.000	26.020	104	60 - 139
1,1-Dichloropropene	25.000	24.240	97.0	79 - 125
cis-1,3-Dichloropropene	25.000	26.660	107	75 - 124
trans-1,3-Dichloropropene	25.000	26.870	107	73 - 127
Ethylbenzene	25.000	25.560	102	79 - 121
Hexachlorobutadiene	25.000	24.830	99.3	66 - 134
Isopropylbenzene	25.000	26.100	104	72 - 131
p-Isopropyltoluene	25.000	26.720	107	77 - 127
Methylene chloride	25.000	24.850	99.4	74 - 124
Methyl t-butyl ether	25.000	24.390	97.6	71 - 124
Naphthalene	25.000	24.600	98.4	61 - 128
n-Propylbenzene	25.000	24.560	98.2	76 - 126
Styrene	25.000	26.300	105	78 - 123
1,1,1,2-Tetrachloroethane	25.000	26.940	108	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.900	99.6	71 - 121
Tetrachloroethene	25.000	26.310	105	74 - 129
Toluene	25.000	26.100	104	80 - 121

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Project Number: 5023146096
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LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	25.300	101	69 - 129
1,2,4-Trichlorobenzene	25.000	26.350	105	69 - 130
1,1,1-Trichloroethane	25.000	25.360	101	74 - 131
1,1,2-Trichloroethane	25.000	24.760	99.0	80 - 119
Trichloroethene	25.000	25.990	104	79 - 123
Trichlorofluoromethane	25.000	24.970	99.9	65 - 141
1,2,3-Trichloropropane	25.000	25.130	101	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.530	106	70 - 136
1,2,4-Trimethylbenzene	25.000	25.520	102	76 - 124
1,3,5-Trimethylbenzene	25.000	26.710	107	75 - 124
Vinyl chloride	25.000	24.230	96.9	58 - 137
Total Xylenes	75.000	76.660	102	79 - 121
Acetone	320.00	299.40	93.6	39 - 160
Acetonitrile	160.00	164.78	103	50 - 142
Allyl chloride	32.000	31.000	96.9	68 - 130
t-Amyl Methyl ether	16.000	15.190	94.9	68 - 128
Benzyl chloride	32.000	35.990	112	42 - 138
t-Butyl alcohol	800.00	764.88	95.6	68 - 129
Carbon disulfide	32.000	31.450	98.3	64 - 133
Chloroprene	32.000	29.990	93.7	65 - 135
Diisopropyl ether	16.000	16.320	102	67 - 128
Ethyl t-butyl ether	16.000	14.990	93.7	70 - 127
2-Hexanone	320.00	306.63	95.8	57 - 139
Methyl ethyl ketone	160.00	154.46	96.5	56 - 143

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1853
Laboratory ID: B[G1853-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	156.40	97.8	67 - 130
Vinyl acetate	160.00	154.01	96.3	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1712752-TUN2	17JUL49.D	07/17/17 23:37
Cal Standard	1712752-CALD	17JUL50.D	07/18/17 00:00
Cal Standard	1712752-CALE	17JUL51.D	07/18/17 00:23
Cal Standard	1712752-CALF	17JUL52.D	07/18/17 00:46
Cal Standard	1712752-CALG	17JUL53.D	07/18/17 01:09
Cal Standard	1712752-CALH	17JUL54.D	07/18/17 01:32
Cal Standard	1712752-CALI	17JUL55.D	07/18/17 01:55
MS Tune	1712752-TUN1	20JUL02.D	07/20/17 08:09
Cal Standard	1712752-CAL1	20JUL03.D	07/20/17 08:32
Cal Standard	1712752-CAL2	20JUL05.D	07/20/17 09:18
Cal Standard	1712752-CAL3	20JUL06.D	07/20/17 09:42
Cal Standard	1712752-CAL4	20JUL07.D	07/20/17 10:05
Cal Standard	1712752-CAL5	20JUL08.D	07/20/17 10:28
Cal Standard	1712752-CAL6	20JUL09.D	07/20/17 10:51
Cal Standard	1712752-CAL7	20JUL15.D	07/20/17 13:09
Cal Standard	1712752-CAL8	20JUL17.D	07/20/17 13:55
Cal Standard	1712752-CAL9	20JUL18.D	07/20/17 14:18
Cal Standard	1712752-CALA	20JUL19.D	07/20/17 14:41
Cal Standard	1712752-CALB	20JUL20.D	07/20/17 15:04
Cal Standard	1712752-CALC	20JUL21.D	07/20/17 15:27

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1712906-ICV1	20JUL12.D	07/20/17 12:00
Initial Cal Blank	1712906-ICB1	20JUL14.D	07/20/17 12:46
Initial Cal Check	1712906-ICV2	20JUL24.D	07/20/17 16:36
Initial Cal Blank	1712906-ICB2	20JUL26.D	07/20/17 17:22
MS Tune	1712906-TUN1	24JUL01.D	07/24/17 04:17
Calibration Check	1712906-CCV1	24JUL02.D	07/24/17 04:40
Calibration Check	1712906-CCV2	24JUL03.D	07/24/17 05:03
Calibration Blank	1712906-CCB1	24JUL05.D	07/24/17 05:49
Blank	B[G1853-BLK1	24JUL25.D	07/24/17 13:54
M14-17R_170720	1720018-08	24JUL26.D	07/24/17 14:17
LCS	B[G1853-BS1	24JUL27.D	07/24/17 14:40
M14-17R_170720	B[G1853-MS1	24JUL28.D	07/24/17 15:03
M14-17R_170720	B[G1853-MSD1	24JUL29.D	07/24/17 15:26
MS Tune	1712906-TUN2	24JUL31.D	07/24/17 16:12
Calibration Check	1712906-CCV4	24JUL32.D	07/24/17 16:35
Calibration Check	1712906-CCV5	24JUL33.D	07/24/17 16:58
Calibration Blank	1712906-CCB2	24JUL35.D	07/24/17 17:44
26MW03_170720	1720018-01	24JUL50.D	07/24/17 23:29
26MW08_170720	1720018-02	24JUL51.D	07/24/17 23:53
DUP06_170720	1720018-03	24JUL52.D	07/25/17 00:16
M14-06_170720	1720018-04	24JUL53.D	07/25/17 00:39
M14-09D_170720	1720018-05	24JUL54.D	07/25/17 01:02
M14-09S_170720	1720018-06	24JUL55.D	07/25/17 01:25
M14-14_170720	1720018-07	24JUL56.D	07/25/17 01:48
M14-18_170720	1720018-09	24JUL57.D	07/25/17 02:11
M14-20D_170720	1720018-10	24JUL58.D	07/25/17 02:34

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1712906	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
M14-21_170720	1720018-11	24JUL59.D	07/25/17 02:57
MS Tune	1712906-TUN3	24JUL61.D	07/25/17 03:43
Calibration Check	1712906-CCV7	24JUL62.D	07/25/17 04:06
Calibration Check	1712906-CCV8	24JUL63.D	07/25/17 04:29
Calibration Blank	1712906-CCB3	24JUL65.D	07/25/17 05:15

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713088-ICV1	20JUL12.D	07/20/17 12:00
Initial Cal Blank	1713088-ICB1	20JUL14.D	07/20/17 12:46
Initial Cal Check	1713088-ICV2	20JUL24.D	07/20/17 16:36
Initial Cal Blank	1713088-ICB2	20JUL26.D	07/20/17 17:22
MS Tune	1713088-TUN1	24JUL61.D	07/25/17 03:43
Calibration Check	1713088-CCV1	24JUL62.D	07/25/17 04:06
Calibration Check	1713088-CCV2	24JUL63.D	07/25/17 04:29
Calibration Blank	1713088-CCB1	24JUL65.D	07/25/17 05:15
SB02_170720	1720018-12	25JUL01.D	07/25/17 05:38
EB17_170720	1720018-13	25JUL02.D	07/25/17 06:01
EB18_170720	1720018-14	25JUL03.D	07/25/17 06:24
MS Tune	1713088-TUN2	25JUL27.D	07/25/17 15:38
Calibration Check	1713088-CCV4	25JUL28.D	07/25/17 16:02
Calibration Check	1713088-CCV5	25JUL29.D	07/25/17 16:25
Calibration Blank	1713088-CCB2	25JUL31.D	07/25/17 17:10

AMEC Environmental & Infrastructure-
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Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	20JUL02.D	Injection Date:	07/20/17
Instrument ID:	MS-V5	Injection Time:	08:09
Sequence:	1712752	Lab Sample ID:	1712752-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	20.8	PASS
Mass 75	30 - 60% of Mass 95	40.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.2	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	53.7	PASS
Mass 175	5 - 9% of Mass 174	6.24	PASS
Mass 176	95 - 101% of Mass 174	98.1	PASS
Mass 177	5 - 9% of Mass 176	8.19	PASS

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Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	17JUL49.D	Injection Date:	07/17/17
Instrument ID:	MS-V5	Injection Time:	23:37
Sequence:	1712752	Lab Sample ID:	1712752-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	19.3	PASS
Mass 75	30 - 60% of Mass 95	38.6	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.2	PASS
Mass 173	Less than 2% of Mass 174	0.531	PASS
Mass 174	50 - 100% of Mass 95	72.4	PASS
Mass 175	5 - 9% of Mass 174	7.55	PASS
Mass 176	95 - 101% of Mass 174	96.6	PASS
Mass 177	5 - 9% of Mass 176	6.03	PASS

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	24JUL01.D	Injection Date:	07/24/17
Instrument ID:	MS-V5	Injection Time:	04:17
Sequence:	1712906	Lab Sample ID:	1712906-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	17.8	PASS
Mass 75	30 - 60% of Mass 95	37.9	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.26	PASS
Mass 173	Less than 2% of Mass 174	1.88	PASS
Mass 174	50 - 100% of Mass 95	70.1	PASS
Mass 175	5 - 9% of Mass 174	6.99	PASS
Mass 176	95 - 101% of Mass 174	97	PASS
Mass 177	5 - 9% of Mass 176	7.22	PASS

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Project: Alameda
Project Number: 5023146096
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MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	24JUL31.D	Injection Date:	07/24/17
Instrument ID:	MS-V5	Injection Time:	16:12
Sequence:	1712906	Lab Sample ID:	1712906-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	15.5	PASS
Mass 75	30 - 60% of Mass 95	36.6	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.22	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	77.7	PASS
Mass 175	5 - 9% of Mass 174	7.3	PASS
Mass 176	95 - 101% of Mass 174	95.5	PASS
Mass 177	5 - 9% of Mass 176	6.16	PASS

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	24JUL61.D	Injection Date:	07/25/17
Instrument ID:	MS-V5	Injection Time:	03:43
Sequence:	1712906	Lab Sample ID:	1712906-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	21.9	PASS
Mass 75	30 - 60% of Mass 95	37.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.3	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	78.9	PASS
Mass 175	5 - 9% of Mass 174	7.65	PASS
Mass 176	95 - 101% of Mass 174	99.4	PASS
Mass 177	5 - 9% of Mass 176	5.17	PASS

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	24JUL61.D	Injection Date:	07/25/17
Instrument ID:	MS-V5	Injection Time:	03:43
Sequence:	1713088	Lab Sample ID:	1713088-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	21.9	PASS
Mass 75	30 - 60% of Mass 95	37.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.3	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	78.9	PASS
Mass 175	5 - 9% of Mass 174	7.65	PASS
Mass 176	95 - 101% of Mass 174	99.4	PASS
Mass 177	5 - 9% of Mass 176	5.17	PASS

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	25JUL27.D	Injection Date:	07/25/17
Instrument ID:	MS-V5	Injection Time:	15:38
Sequence:	1713088	Lab Sample ID:	1713088-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	18.7	PASS
Mass 75	30 - 60% of Mass 95	42	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.6	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	80.1	PASS
Mass 175	5 - 9% of Mass 174	7.9	PASS
Mass 176	95 - 101% of Mass 174	99.5	PASS
Mass 177	5 - 9% of Mass 176	7.11	PASS

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/20/17
Lab Sample ID:	1712906-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.890	2.047739	2.039122		-0.4	20
Bromobenzene	A	25.000	25.230	1.167814	1.17861		0.9	20
Bromochloromethane	A	25.000	24.530	0.1664346	0.1632807		-1.9	20
Bromodichloromethane	A	25.000	25.280	0.2878825	0.2911282		1.1	20
Bromoform	A	25.000	26.740	0.245463	0.2625679	0.1	7.0	20
Bromomethane	A	25.000	25.110	0.406522	0.4083079		0.4	20
n-Butylbenzene	A	25.000	26.100	4.798501	5.009032		4.4	20
sec-Butylbenzene	A	25.000	26.640	6.314385	6.729672		6.6	20
tert-Butylbenzene	A	25.000	25.400	4.660614	4.735605		1.6	20
Carbon tetrachloride	A	25.000	25.480	0.449341	0.457984		1.9	20
Chlorobenzene	A	25.000	23.360	3.316137	3.09848	0.3	-6.6	20
Chloroethane	A	25.000	24.110	0.5145747	0.4963064		-3.6	20
Chloroform	A	25.000	24.930	0.7571101	0.7548645		-0.3	20
Chloromethane	A	25.000	21.800	0.9407238	0.8204025	0.1	-12.8	20
2-Chlorotoluene	A	25.000	24.160	4.677137	4.5199		-3.4	20
4-Chlorotoluene	A	25.000	24.370	4.223867	4.117292		-2.5	20
Dibromochloromethane	A	25.000	26.550	0.1504286	0.1597323		6.2	20
1,2-Dibromo-3-chloropropane	A	25.000	28.170	7.330085E-02	0.0826084		12.7	20
1,2-Dibromoethane	A	25.000	26.200	0.1293784	0.1355752		4.8	20
Dibromomethane	A	25.000	26.740	9.576412E-02	0.1024155		6.9	20
1,2-Dichlorobenzene	A	25.000	24.020	2.15653	2.071804		-3.9	20
1,3-Dichlorobenzene	A	25.000	24.340	2.49992	2.433885		-2.6	20
1,4-Dichlorobenzene	A	25.000	24.380	2.443238	2.382478		-2.5	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/20/17
Lab Sample ID:	1712906-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.330	0.4975939	0.5240701		5.3	20
1,1-Dichloroethane	A	25.000	25.490	1.070106	1.090882	0.1	1.9	20
1,2-Dichloroethane	A	25.000	24.460	0.4067953	0.3979766		-2.2	20
1,1-Dichloroethene	A	25.000	25.940	0.8069668	0.8371807		3.7	20
cis-1,2-Dichloroethene	A	25.000	25.330	0.5222008	0.5290657		1.3	20
trans-1,2-Dichloroethene	A	25.000	26.540	0.5009588	0.5318602		6.2	20
1,2-Dichloropropane	A	25.000	24.220	0.379403	0.3675628		-3.1	20
1,3-Dichloropropane	A	25.000	23.670	0.2528371	0.2393712		-5.3	20
2,2-Dichloropropane	A	25.000	25.930	0.602219	0.6245229		3.7	20
1,1-Dichloropropene	A	25.000	24.420	0.6845791	0.6686965		-2.3	20
cis-1,3-Dichloropropene	A	25.000	26.090	0.3594295	0.375053		4.3	20
trans-1,3-Dichloropropene	A	25.000	26.130	0.2346113	0.2452383		4.5	20
Ethylbenzene	A	25.000	25.810	1.948304	2.0114		3.2	20
Hexachlorobutadiene	A	25.000	25.210	0.86466	0.872002		0.8	20
Isopropylbenzene	A	25.000	26.250	5.700983	5.985719		5.0	20
p-Isopropyltoluene	A	25.000	26.690	5.149437	5.497681		6.8	20
Methylene chloride	A	25.000	24.890	0.4314876	0.4296029		-0.4	20
Methyl t-butyl ether	A	25.000	25.570	0.603852	0.6175321		2.3	20
Naphthalene	A	25.000	26.500	1.569043	1.6633		6.0	20
n-Propylbenzene	A	25.000	24.270	7.403456	7.187232		-2.9	20
Styrene	A	25.000	26.450	3.356924	3.551577		5.8	20
1,1,1,2-Tetrachloroethane	A	25.000	26.860	0.8160317	0.8766748		7.4	20
1,1,2,2-Tetrachloroethane	A	25.000	25.920	0.5437402	0.5638488	0.3	3.7	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/20/17
Lab Sample ID:	1712906-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.470	0.3290699	0.3353122		1.9	20
Toluene	A	25.000	24.960	0.8662846	0.8648716		-0.2	20
1,2,3-Trichlorobenzene	A	25.000	26.670	1.048181	1.118245		6.7	20
1,2,4-Trichlorobenzene	A	25.000	27.060	1.248966	1.351767		8.2	20
1,1,1-Trichloroethane	A	25.000	25.790	0.6553918	0.6760837		3.2	20
1,1,2-Trichloroethane	A	25.000	25.220	0.1556498	0.1570429		0.9	20
Trichloroethene	A	25.000	25.390	0.3434012	0.3487116		1.5	20
Trichlorofluoromethane	A	25.000	25.570	0.6158835	0.6299322		2.3	20
1,2,3-Trichloropropane	A	25.000	25.960	0.1156016	0.1200231		3.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.470	0.4228091	0.4476203		5.9	20
1,2,4-Trimethylbenzene	A	25.000	26.050	4.672745	4.868982		4.2	20
1,3,5-Trimethylbenzene	A	25.000	27.000	4.717828	5.09494		8.0	20
Vinyl chloride	A	25.000	24.480	0.7494116	0.7337211		-2.1	20
Total Xylenes	A	75.000	76.780	2.323025	2.378206		2.4	20
Total Trihalomethanes	A	100.00	103.50	7387.704	7187.65		-2.7	20
p- & m-Xylenes	A	50.000	51.130	2.383338	2.437307		2.3	20
o-Xylene	A	25.000	25.650	2.2024	2.260003		2.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL24.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/20/17
Lab Sample ID:	1712906-ICV2	Injection Time:	16:36

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	311.29	4.120558E-02	4.008438E-02		-2.7	20
Acetonitrile	A	160.00	156.48	1.962376E-02	1.919169E-02		-2.2	20
Allyl chloride	A	32.000	30.910	1.003175	0.9689626		-3.4	20
t-Amyl Methyl ether	A	16.000	15.740	0.6727663	0.6619595		-1.6	20
Benzyl chloride	L	32.000	28.550	0.5754497	0.592096		-10.8	20
t-Butyl alcohol	A	800.00	778.65	0.0118311	1.151529E-02		-2.7	20
Carbon disulfide	A	32.000	30.220	1.516116	1.431992		-5.5	20
Chloroprene	A	32.000	29.870	1.054363	0.9841485		-6.7	20
Diisopropyl ether	A	16.000	15.560	0.3736986	0.3634691		-2.7	20
Ethanol	A	4000.0	3929.6	1.803136E-03	1.771401E-03		-1.8	20
Ethyl t-butyl ether	A	16.000	14.950	1.222825	1.142353		-6.6	20
Hexane	A	25.000	24.860	0.6427995	0.6391492		-0.6	20
2-Hexanone	A	320.00	300.02	7.579232E-02	7.106038E-02		-6.2	20
Isopropyl alcohol	A	800.00	819.41	8.311588E-03	8.513295E-03		2.4	20
Methyl ethyl ketone	A	160.00	150.32	7.316144E-02	6.873728E-02		-6.0	20
Methyl isobutyl ketone	A	160.00	150.81	0.1118834	0.1054587		-5.7	20
Vinyl acetate	A	160.00	149.46	0.5836509	0.5452114		-6.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV1	Injection Time:	04:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	25.970	2.047739	2.126835		3.9	20	
Bromobenzene	A	25.000	24.630	1.167814	1.150524		-1.5	20	
Bromochloromethane	A	25.000	25.410	0.1664346	0.1691511		1.6	20	
Bromodichloromethane	A	25.000	24.690	0.2878825	0.2843442		-1.2	20	
Bromoform	A	25.000	27.700	0.245463	0.2719541	0.1	10.8	20	
Bromomethane	A	25.000	17.670	0.406522	0.2872801		-29.3	20	*
n-Butylbenzene	A	25.000	27.190	4.798501	5.219182		8.8	20	
sec-Butylbenzene	A	25.000	27.680	6.314385	6.991306		10.7	20	
tert-Butylbenzene	A	25.000	25.970	4.660614	4.841195		3.9	20	
Carbon tetrachloride	A	25.000	26.230	0.449341	0.4713836		4.9	20	
Chlorobenzene	A	25.000	25.370	3.316137	3.365584	0.3	1.5	20	
Chloroethane	A	25.000	25.380	0.5145747	0.5223763		1.5	20	
Chloroform	A	25.000	24.480	0.7571101	0.7414211		-2.1	20	
Chloromethane	A	25.000	19.530	0.9407238	0.734911	0.1	-21.9	20	*
2-Chlorotoluene	A	25.000	26.180	4.677137	4.897626		4.7	20	
4-Chlorotoluene	A	25.000	26.430	4.223867	4.465186		5.7	20	
Dibromochloromethane	A	25.000	25.900	0.1504286	0.1558376		3.6	20	
1,2-Dibromo-3-chloropropane	A	25.000	25.240	7.330085E-02	7.401386E-02		1.0	20	
1,2-Dibromoethane	A	25.000	23.750	0.1293784	0.1228999		-5.0	20	
Dibromomethane	A	25.000	24.700	9.576412E-02	9.463295E-02		-1.2	20	
1,2-Dichlorobenzene	A	25.000	25.200	2.15653	2.173623		0.8	20	
1,3-Dichlorobenzene	A	25.000	26.480	2.49992	2.647705		5.9	20	
1,4-Dichlorobenzene	A	25.000	26.260	2.443238	2.566531		5.0	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV1	Injection Time:	04:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.030	0.4975939	0.5181206		4.1	20
1,1-Dichloroethane	A	25.000	25.190	1.070106	1.078358	0.1	0.8	20
1,2-Dichloroethane	A	25.000	23.260	0.4067953	0.378439		-7.0	20
1,1-Dichloroethene	A	25.000	25.420	0.8069668	0.8204097		1.7	20
cis-1,2-Dichloroethene	A	25.000	24.980	0.5222008	0.5218174		-0.07	20
trans-1,2-Dichloroethene	A	25.000	25.400	0.5009588	0.5088745		1.6	20
1,2-Dichloropropane	A	25.000	25.000	0.379403	0.3793931		-0.003	20
1,3-Dichloropropane	A	25.000	23.840	0.2528371	0.2410957		-4.6	20
2,2-Dichloropropane	A	25.000	27.210	0.602219	0.6554012		8.8	20
1,1-Dichloropropene	A	25.000	26.010	0.6845791	0.712205		4.0	20
cis-1,3-Dichloropropene	A	25.000	26.550	0.3594295	0.3817638		6.2	20
trans-1,3-Dichloropropene	A	25.000	26.360	0.2346113	0.2473785		5.4	20
Ethylbenzene	A	25.000	26.700	1.948304	2.080922		6.8	20
Hexachlorobutadiene	A	25.000	24.560	0.86466	0.8494232		-1.8	20
Isopropylbenzene	A	25.000	26.930	5.700983	6.140852		7.7	20
p-Isopropyltoluene	A	25.000	27.070	5.149437	5.57653		8.3	20
Methylene chloride	A	25.000	24.420	0.4314876	0.4214144		-2.3	20
Methyl t-butyl ether	A	25.000	23.680	0.603852	0.5718744		-5.3	20
Naphthalene	A	25.000	25.480	1.569043	1.599153		1.9	20
n-Propylbenzene	A	25.000	25.730	7.403456	7.619435		2.9	20
Styrene	A	25.000	26.600	3.356924	3.572316		6.4	20
1,1,1,2-Tetrachloroethane	A	25.000	27.630	0.8160317	0.9017506		10.5	20
1,1,2,2-Tetrachloroethane	A	25.000	26.010	0.5437402	0.5656263	0.3	4.0	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV1	Injection Time:	04:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.100	0.3290699	0.330442		0.4	20
Toluene	A	25.000	25.560	0.8662846	0.8856262		2.2	20
1,2,3-Trichlorobenzene	A	25.000	23.160	1.048181	0.971182		-7.3	20
1,2,4-Trichlorobenzene	A	25.000	24.810	1.248966	1.239332		-0.8	20
1,1,1-Trichloroethane	A	25.000	25.460	0.6553918	0.6674272		1.8	20
1,1,2-Trichloroethane	A	25.000	23.630	0.1556498	0.1471228		-5.5	20
Trichloroethene	A	25.000	25.300	0.3434012	0.3474968		1.2	20
Trichlorofluoromethane	A	25.000	25.580	0.6158835	0.6300807		2.3	20
1,2,3-Trichloropropane	A	25.000	24.360	0.1156016	0.1126412		-2.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	27.910	0.4228091	0.4720116		11.6	20
1,2,4-Trimethylbenzene	A	25.000	26.150	4.672745	4.888024		4.6	20
1,3,5-Trimethylbenzene	A	25.000	27.190	4.717828	5.131347		8.8	20
Vinyl chloride	A	25.000	24.550	0.7494116	0.7359807		-1.8	20
Total Xylenes	A	75.000	77.690	2.323025	2.406652		3.6	20
Total Trihalomethanes	A	100.00	102.77	7387.704	7360.12		-0.4	20
p- & m-Xylenes	A	50.000	51.890	2.383338	2.473598		3.8	20
o-Xylene	A	25.000	25.800	2.2024	2.272759		3.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL03.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV2	Injection Time:	05:03

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	314.11	4.120558E-02	4.044721E-02		-1.8	20
Acetonitrile	A	160.00	176.92	1.962376E-02	2.169924E-02		10.6	20
Allyl chloride	A	32.000	34.470	1.003175	1.080583		7.7	20
t-Amyl Methyl ether	A	16.000	16.710	0.6727663	0.7026449		4.4	20
Benzyl chloride	L	32.000	37.810	0.5754497	0.8042234		18.2	20
t-Butyl alcohol	A	800.00	804.71	0.0118311	1.190078E-02		0.6	20
Carbon disulfide	A	32.000	34.540	1.516116	1.636626		7.9	20
Chloroprene	A	32.000	32.260	1.054363	1.063035		0.8	20
Diisopropyl ether	A	16.000	16.580	0.3736986	0.3872678		3.6	20
Ethanol	A	4000.0	4138.2	1.803136E-03	1.865412E-03		3.5	20
Ethyl t-butyl ether	A	16.000	15.800	1.222825	1.207724		-1.2	20
Hexane	A	25.000	29.470	0.6427995	0.7577601		17.9	20
2-Hexanone	A	320.00	302.96	7.579232E-02	7.175662E-02		-5.3	20
Isopropyl alcohol	A	800.00	842.96	8.311588E-03	8.757908E-03		5.4	20
Methyl ethyl ketone	A	160.00	153.95	7.316144E-02	7.039318E-02		-3.8	20
Methyl isobutyl ketone	A	160.00	157.95	0.1118834	0.1104507		-1.3	20
Vinyl acetate	A	160.00	161.88	0.5836509	0.5904968		1.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL32.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV4	Injection Time:	16:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	23.690	2.047739	1.940205		-5.3	20	
Bromobenzene	A	25.000	23.860	1.167814	1.11472		-4.5	20	
Bromochloromethane	A	25.000	23.580	0.1664346	0.1569708		-5.7	20	
Bromodichloromethane	A	25.000	24.160	0.2878825	0.2782038		-3.4	20	
Bromoform	A	25.000	25.170	0.245463	0.2471667	0.1	0.7	20	
Bromomethane	A	25.000	17.290	0.406522	0.2811433		-30.8	20	*
n-Butylbenzene	A	25.000	24.120	4.798501	4.629732		-3.5	20	
sec-Butylbenzene	A	25.000	24.990	6.314385	6.312212		-0.03	20	
tert-Butylbenzene	A	25.000	26.660	4.660614	4.970042		6.6	20	
Carbon tetrachloride	A	25.000	23.240	0.449341	0.417719		-7.0	20	
Chlorobenzene	A	25.000	23.850	3.316137	3.16389	0.3	-4.6	20	
Chloroethane	A	25.000	22.730	0.5145747	0.4679467		-9.1	20	
Chloroform	A	25.000	22.850	0.7571101	0.6919249		-8.6	20	
Chloromethane	A	25.000	17.510	0.9407238	0.6588048	0.1	-30.0	20	*
2-Chlorotoluene	A	25.000	24.630	4.677137	4.607348		-1.5	20	
4-Chlorotoluene	A	25.000	24.240	4.223867	4.095236		-3.0	20	
Dibromochloromethane	A	25.000	25.270	0.1504286	0.1520376		1.1	20	
1,2-Dibromo-3-chloropropane	A	25.000	22.720	7.330085E-02	6.660426E-02		-9.1	20	
1,2-Dibromoethane	A	25.000	23.450	0.1293784	0.1213576		-6.2	20	
Dibromomethane	A	25.000	23.980	9.576412E-02	9.184357E-02		-4.1	20	
1,2-Dichlorobenzene	A	25.000	24.110	2.15653	2.07952		-3.6	20	
1,3-Dichlorobenzene	A	25.000	24.870	2.49992	2.487183		-0.5	20	
1,4-Dichlorobenzene	A	25.000	24.920	2.443238	2.435839		-0.3	20	

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL32.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV4	Injection Time:	16:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	22.830	0.4975939	0.4543655		-8.7	20
1,1-Dichloroethane	A	25.000	23.070	1.070106	0.9874856	0.1	-7.7	20
1,2-Dichloroethane	A	25.000	22.560	0.4067953	0.3671491		-9.7	20
1,1-Dichloroethene	A	25.000	23.410	0.8069668	0.7555659		-6.4	20
cis-1,2-Dichloroethene	A	25.000	23.220	0.5222008	0.485111		-7.1	20
trans-1,2-Dichloroethene	A	25.000	23.400	0.5009588	0.4689144		-6.4	20
1,2-Dichloropropane	A	25.000	23.800	0.379403	0.3611481		-4.8	20
1,3-Dichloropropane	A	25.000	23.640	0.2528371	0.2390377		-5.5	20
2,2-Dichloropropane	A	25.000	23.050	0.602219	0.5551934		-7.8	20
1,1-Dichloropropene	A	25.000	23.720	0.6845791	0.6495192		-5.1	20
cis-1,3-Dichloropropene	A	25.000	24.710	0.3594295	0.3552309		-1.2	20
trans-1,3-Dichloropropene	A	25.000	25.870	0.2346113	0.2427994		3.5	20
Ethylbenzene	A	25.000	24.770	1.948304	1.930057		-0.9	20
Hexachlorobutadiene	A	25.000	23.570	0.86466	0.8153008		-5.7	20
Isopropylbenzene	A	25.000	24.390	5.700983	5.560961		-2.5	20
p-Isopropyltoluene	A	25.000	24.870	5.149437	5.122322		-0.5	20
Methylene chloride	A	25.000	23.450	0.4314876	0.4047268		-6.2	20
Methyl t-butyl ether	A	25.000	23.320	0.603852	0.5631956		-6.7	20
Naphthalene	A	25.000	23.630	1.569043	1.482749		-5.5	20
n-Propylbenzene	A	25.000	23.640	7.403456	7.00167		-5.4	20
Styrene	A	25.000	25.170	3.356924	3.380034		0.7	20
1,1,1,2-Tetrachloroethane	A	25.000	25.950	0.8160317	0.8471436		3.8	20
1,1,2,2-Tetrachloroethane	A	25.000	26.140	0.5437402	0.5685239	0.3	4.6	20

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Reported: 8/21/2017 11:47:01AM
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL32.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV4	Injection Time:	16:35

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	24.000	0.3290699	0.3158923		-4.0	20
Toluene	A	25.000	24.260	0.8662846	0.840629		-3.0	20
1,2,3-Trichlorobenzene	A	25.000	22.680	1.048181	0.9508072		-9.3	20
1,2,4-Trichlorobenzene	A	25.000	23.710	1.248966	1.184504		-5.2	20
1,1,1-Trichloroethane	A	25.000	22.840	0.6553918	0.5988563		-8.6	20
1,1,2-Trichloroethane	A	25.000	23.700	0.1556498	0.147586		-5.2	20
Trichloroethene	A	25.000	24.570	0.3434012	0.3374391		-1.7	20
Trichlorofluoromethane	A	25.000	23.560	0.6158835	0.5805118		-5.7	20
1,2,3-Trichloropropane	A	25.000	25.440	0.1156016	0.1176513		1.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.680	0.4228091	0.4173627		-1.3	20
1,2,4-Trimethylbenzene	A	25.000	24.280	4.672745	4.538481		-2.9	20
1,3,5-Trimethylbenzene	A	25.000	25.170	4.717828	4.750297		0.7	20
Vinyl chloride	A	25.000	21.600	0.7494116	0.6474605		-13.6	20
Total Xylenes	A	75.000	72.620	2.323025	2.24804		-3.2	20
Total Trihalomethanes	A	100.00	97.450	7387.704	7117.32		-3.7	20
p- & m-Xylenes	A	50.000	47.850	2.383338	2.28093		-4.3	20
o-Xylene	A	25.000	24.770	2.2024	2.18226		-0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL33.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/24/17
Lab Sample ID:	1712906-CCV5	Injection Time:	16:58

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	286.27	4.120558E-02	3.686216E-02		-10.5	20
Acetonitrile	A	160.00	147.04	1.962376E-02	1.803391E-02		-8.1	20
Allyl chloride	A	32.000	28.800	1.003175	0.9027664		-10.0	20
t-Amyl Methyl ether	A	16.000	15.260	0.6727663	0.6414654		-4.7	20
Benzyl chloride	L	32.000	29.480	0.5754497	0.613253		-7.9	20
t-Butyl alcohol	A	800.00	755.43	0.0118311	0.0111719		-5.6	20
Carbon disulfide	A	32.000	28.620	1.516116	1.356109		-10.6	20
Chloroprene	A	32.000	26.990	1.054363	0.8892483		-15.7	20
Diisopropyl ether	A	16.000	14.560	0.3736986	0.3400638		-9.0	20
Ethanol	A	4000.0	3907.4	1.803136E-03	1.761369E-03		-2.3	20
Ethyl t-butyl ether	A	16.000	14.090	1.222825	1.076955		-11.9	20
Hexane	A	25.000	23.680	0.6427995	0.6089728		-5.3	20
2-Hexanone	A	320.00	281.78	7.579232E-02	6.674064E-02		-11.9	20
Isopropyl alcohol	A	800.00	802.56	8.311588E-03	8.338235E-03		0.3	20
Methyl ethyl ketone	A	160.00	143.77	7.316144E-02	6.574225E-02		-10.1	20
Methyl isobutyl ketone	A	160.00	143.80	0.1118834	0.1005521		-10.1	20
Vinyl acetate	A	160.00	146.87	0.5836509	0.5357597		-8.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL62.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/25/17
Lab Sample ID:	1712906-CCV7	Injection Time:	04:06

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	25.020	2.047739	2.049292		0.08	20	
Bromobenzene	A	25.000	24.940	1.167814	1.164918		-0.2	20	
Bromochloromethane	A	25.000	24.470	0.1664346	0.1628766		-2.1	20	
Bromodichloromethane	A	25.000	25.660	0.2878825	0.2954387		2.6	20	
Bromoform	A	25.000	25.660	0.245463	0.2519355	0.1	2.6	20	
Bromomethane	A	25.000	10.950	0.406522	0.1780058		-56.2	20	*
n-Butylbenzene	A	25.000	24.690	4.798501	4.739087		-1.2	20	
sec-Butylbenzene	A	25.000	26.120	6.314385	6.597652		4.5	20	
tert-Butylbenzene	A	25.000	24.980	4.660614	4.657492		-0.07	20	
Carbon tetrachloride	A	25.000	25.000	0.449341	0.4492854		-0.01	20	
Chlorobenzene	A	25.000	24.480	3.316137	3.246955	0.3	-2.1	20	
Chloroethane	A	25.000	23.930	0.5145747	0.4925845		-4.3	20	
Chloroform	A	25.000	24.340	0.7571101	0.7371863		-2.6	20	
Chloromethane	A	25.000	18.420	0.9407238	0.6930097	0.1	-26.3	20	*
2-Chlorotoluene	A	25.000	25.400	4.677137	4.752464		1.6	20	
4-Chlorotoluene	A	25.000	25.190	4.223867	4.255485		0.7	20	
Dibromochloromethane	A	25.000	26.410	0.1504286	0.1589231		5.6	20	
1,2-Dibromo-3-chloropropane	A	25.000	24.330	7.330085E-02	7.133235E-02		-2.7	20	
1,2-Dibromoethane	A	25.000	24.520	0.1293784	0.1268754		-1.9	20	
Dibromomethane	A	25.000	26.380	9.576412E-02	0.1010519		5.5	20	
1,2-Dichlorobenzene	A	25.000	25.400	2.15653	2.191241		1.6	20	
1,3-Dichlorobenzene	A	25.000	25.610	2.49992	2.56091		2.4	20	
1,4-Dichlorobenzene	A	25.000	25.450	2.443238	2.487359		1.8	20	

AMEC Environmental & Infrastructure-
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Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL62.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/25/17
Lab Sample ID:	1712906-CCV7	Injection Time:	04:06

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Dichlorodifluoromethane	A	25.000	25.150	0.4975939	0.500657		0.6	20	
1,1-Dichloroethane	A	25.000	24.670	1.070106	1.055806	0.1	-1.3	20	
1,2-Dichloroethane	A	25.000	25.130	0.4067953	0.4089365		0.5	20	
1,1-Dichloroethene	A	25.000	25.330	0.8069668	0.8176507		1.3	20	
cis-1,2-Dichloroethene	A	25.000	24.480	0.5222008	0.5113236		-2.1	20	
trans-1,2-Dichloroethene	A	25.000	25.000	0.5009588	0.5009337		-0.005	20	
1,2-Dichloropropane	A	25.000	25.440	0.379403	0.3860243		1.7	20	
1,3-Dichloropropane	A	25.000	24.420	0.2528371	0.2469534		-2.3	20	
2,2-Dichloropropane	A	25.000	19.960	0.602219	0.4807909		-20.2	20	*
1,1-Dichloropropene	A	25.000	24.940	0.6845791	0.6829077		-0.2	20	
cis-1,3-Dichloropropene	A	25.000	25.010	0.3594295	0.3595928		0.05	20	
trans-1,3-Dichloropropene	A	25.000	25.820	0.2346113	0.2422958		3.3	20	
Ethylbenzene	A	25.000	25.520	1.948304	1.988653		2.1	20	
Hexachlorobutadiene	A	25.000	24.340	0.86466	0.8417563		-2.6	20	
Isopropylbenzene	A	25.000	26.100	5.700983	5.952587		4.4	20	
p-Isopropyltoluene	A	25.000	25.330	5.149437	5.217681		1.3	20	
Methylene chloride	A	25.000	24.140	0.4314876	0.416594		-3.5	20	
Methyl t-butyl ether	A	25.000	24.180	0.603852	0.58416		-3.3	20	
Naphthalene	A	25.000	24.330	1.569043	1.526689		-2.7	20	
n-Propylbenzene	A	25.000	24.300	7.403456	7.195221		-2.8	20	
Styrene	A	25.000	25.560	3.356924	3.432008		2.2	20	
1,1,1,2-Tetrachloroethane	A	25.000	26.880	0.8160317	0.8772632		7.5	20	
1,1,2,2-Tetrachloroethane	A	25.000	22.310	0.5437402	0.4851785	0.3	-10.8	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL62.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/25/17
Lab Sample ID:	1712906-CCV7	Injection Time:	04:06

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	27.270	0.3290699	0.3589938		9.1	20
Toluene	A	25.000	25.800	0.8662846	0.8938978		3.2	20
1,2,3-Trichlorobenzene	A	25.000	24.190	1.048181	1.014232		-3.2	20
1,2,4-Trichlorobenzene	A	25.000	23.830	1.248966	1.190643		-4.7	20
1,1,1-Trichloroethane	A	25.000	25.130	0.6553918	0.6589214		0.5	20
1,1,2-Trichloroethane	A	25.000	24.540	0.1556498	0.1527893		-1.8	20
Trichloroethene	A	25.000	27.480	0.3434012	0.3774285		9.9	20
Trichlorofluoromethane	A	25.000	26.250	0.6158835	0.6466811		5.0	20
1,2,3-Trichloropropane	A	25.000	26.300	0.1156016	0.1216188		5.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.160	0.4228091	0.4423966		4.6	20
1,2,4-Trimethylbenzene	A	25.000	25.250	4.672745	4.720087		1.0	20
1,3,5-Trimethylbenzene	A	25.000	25.880	4.717828	4.883826		3.5	20
Vinyl chloride	A	25.000	23.730	0.7494116	0.7114132		-5.1	20
Total Xylenes	A	75.000	75.300	2.323025	2.331986		0.4	20
Total Trihalomethanes	A	100.00	102.07	7387.704	6720.99		-9.0	20
p- & m-Xylenes	A	50.000	49.980	2.383338	2.382529		-0.03	20
o-Xylene	A	25.000	25.320	2.2024	2.230901		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL63.D	Calibration Date:	07/18/17 00:46
Sequence:	1712906	Injection Date:	07/25/17
Lab Sample ID:	1712906-CCV8	Injection Time:	04:29

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	319.28	4.120558E-02	4.111289E-02		-0.2	20
Acetonitrile	A	160.00	168.85	1.962376E-02	2.070906E-02		5.5	20
Allyl chloride	A	32.000	29.440	1.003175	0.9230582		-8.0	20
t-Amyl Methyl ether	A	16.000	15.400	0.6727663	0.6474419		-3.8	20
Benzyl chloride	L	32.000	20.330	0.5754497	0.4036554		-36.5	20 *
t-Butyl alcohol	A	800.00	785.59	0.0118311	1.161799E-02		-1.8	20
Carbon disulfide	A	32.000	29.850	1.516116	1.414122		-6.7	20
Chloroprene	A	32.000	29.880	1.054363	0.984633		-6.6	20
Diisopropyl ether	A	16.000	14.450	0.3736986	0.337482		-9.7	20
Ethyl t-butyl ether	A	16.000	15.000	1.222825	1.146136		-6.3	20
2-Hexanone	A	320.00	313.43	7.579232E-02	7.423682E-02		-2.1	20
Methyl ethyl ketone	A	160.00	153.04	7.316144E-02	0.0699779		-4.4	20
Methyl isobutyl ketone	A	160.00	155.79	0.1118834	0.1089394		-2.6	20
Vinyl acetate	A	160.00	88.970	0.5836509	0.3245575		-44.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.890	2.047739	2.039122		-0.4	20
Bromobenzene	A	25.000	25.230	1.167814	1.17861		0.9	20
Bromochloromethane	A	25.000	24.530	0.1664346	0.1632807		-1.9	20
Bromodichloromethane	A	25.000	25.280	0.2878825	0.2911282		1.1	20
Bromoform	A	25.000	26.740	0.245463	0.2625679	0.1	7.0	20
Bromomethane	A	25.000	25.110	0.406522	0.4083079		0.4	20
n-Butylbenzene	A	25.000	26.100	4.798501	5.009032		4.4	20
sec-Butylbenzene	A	25.000	26.640	6.314385	6.729672		6.6	20
tert-Butylbenzene	A	25.000	25.400	4.660614	4.735605		1.6	20
Carbon tetrachloride	A	25.000	25.480	0.449341	0.457984		1.9	20
Chlorobenzene	A	25.000	23.360	3.316137	3.09848	0.3	-6.6	20
Chloroethane	A	25.000	24.110	0.5145747	0.4963064		-3.6	20
Chloroform	A	25.000	24.930	0.7571101	0.7548645		-0.3	20
Chloromethane	A	25.000	21.800	0.9407238	0.8204025	0.1	-12.8	20
2-Chlorotoluene	A	25.000	24.160	4.677137	4.5199		-3.4	20
4-Chlorotoluene	A	25.000	24.370	4.223867	4.117292		-2.5	20
Dibromochloromethane	A	25.000	26.550	0.1504286	0.1597323		6.2	20
1,2-Dibromo-3-chloropropane	A	25.000	28.170	7.330085E-02	0.0826084		12.7	20
1,2-Dibromoethane	A	25.000	26.200	0.1293784	0.1355752		4.8	20
Dibromomethane	A	25.000	26.740	9.576412E-02	0.1024155		6.9	20
1,2-Dichlorobenzene	A	25.000	24.020	2.15653	2.071804		-3.9	20
1,3-Dichlorobenzene	A	25.000	24.340	2.49992	2.433885		-2.6	20
1,4-Dichlorobenzene	A	25.000	24.380	2.443238	2.382478		-2.5	20

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Project Number: 5023146096
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.330	0.4975939	0.5240701		5.3	20
1,1-Dichloroethane	A	25.000	25.490	1.070106	1.090882	0.1	1.9	20
1,2-Dichloroethane	A	25.000	24.460	0.4067953	0.3979766		-2.2	20
1,1-Dichloroethene	A	25.000	25.940	0.8069668	0.8371807		3.7	20
cis-1,2-Dichloroethene	A	25.000	25.330	0.5222008	0.5290657		1.3	20
trans-1,2-Dichloroethene	A	25.000	26.540	0.5009588	0.5318602		6.2	20
1,2-Dichloropropane	A	25.000	24.220	0.379403	0.3675628		-3.1	20
1,3-Dichloropropane	A	25.000	23.670	0.2528371	0.2393712		-5.3	20
2,2-Dichloropropane	A	25.000	25.930	0.602219	0.6245229		3.7	20
1,1-Dichloropropene	A	25.000	24.420	0.6845791	0.6686965		-2.3	20
cis-1,3-Dichloropropene	A	25.000	26.090	0.3594295	0.375053		4.3	20
trans-1,3-Dichloropropene	A	25.000	26.130	0.2346113	0.2452383		4.5	20
Ethylbenzene	A	25.000	25.810	1.948304	2.0114		3.2	20
Hexachlorobutadiene	A	25.000	25.210	0.86466	0.872002		0.8	20
Isopropylbenzene	A	25.000	26.250	5.700983	5.985719		5.0	20
p-Isopropyltoluene	A	25.000	26.690	5.149437	5.497681		6.8	20
Methylene chloride	A	25.000	24.890	0.4314876	0.4296029		-0.4	20
Methyl t-butyl ether	A	25.000	25.570	0.603852	0.6175321		2.3	20
Naphthalene	A	25.000	26.500	1.569043	1.6633		6.0	20
n-Propylbenzene	A	25.000	24.270	7.403456	7.187232		-2.9	20
Styrene	A	25.000	26.450	3.356924	3.551577		5.8	20
1,1,1,2-Tetrachloroethane	A	25.000	26.860	0.8160317	0.8766748		7.4	20
1,1,2,2-Tetrachloroethane	A	25.000	25.920	0.5437402	0.5638488	0.3	3.7	20

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.470	0.3290699	0.3353122		1.9	20
Toluene	A	25.000	24.960	0.8662846	0.8648716		-0.2	20
1,2,3-Trichlorobenzene	A	25.000	26.670	1.048181	1.118245		6.7	20
1,2,4-Trichlorobenzene	A	25.000	27.060	1.248966	1.351767		8.2	20
1,1,1-Trichloroethane	A	25.000	25.790	0.6553918	0.6760837		3.2	20
1,1,2-Trichloroethane	A	25.000	25.220	0.1556498	0.1570429		0.9	20
Trichloroethene	A	25.000	25.390	0.3434012	0.3487116		1.5	20
Trichlorofluoromethane	A	25.000	25.570	0.6158835	0.6299322		2.3	20
1,2,3-Trichloropropane	A	25.000	25.960	0.1156016	0.1200231		3.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.470	0.4228091	0.4476203		5.9	20
1,2,4-Trimethylbenzene	A	25.000	26.050	4.672745	4.868982		4.2	20
1,3,5-Trimethylbenzene	A	25.000	27.000	4.717828	5.09494		8.0	20
Vinyl chloride	A	25.000	24.480	0.7494116	0.7337211		-2.1	20
Total Xylenes	A	75.000	76.780	2.323025	2.378206		2.4	20
p- & m-Xylenes	A	50.000	51.130	2.383338	2.437307		2.3	20
o-Xylene	A	25.000	25.650	2.2024	2.260003		2.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL24.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV2	Injection Time:	16:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	311.29	4.120558E-02	4.008438E-02		-2.7	20
Acetonitrile	A	160.00	156.48	1.962376E-02	1.919169E-02		-2.2	20
Acrolein	A	200.00	192.76	1.822349E-02	1.756349E-02		-3.6	20
Acrylonitrile	A	80.000	79.220	6.794017E-02	0.0672776		-1.0	20
Allyl chloride	A	32.000	30.910	1.003175	0.9689626		-3.4	20
t-Amyl Methyl ether	A	16.000	15.740	0.6727663	0.6619595		-1.6	20
Benzyl chloride	L	32.000	28.550	0.5754497	0.592096		-10.8	20
t-Butyl alcohol	A	800.00	778.65	0.0118311	1.151529E-02		-2.7	20
Carbon disulfide	A	32.000	30.220	1.516116	1.431992		-5.5	20
Chloroprene	A	32.000	29.870	1.054363	0.9841485		-6.7	20
trans-1,4-Dichloro-2-butene	A	80.000	79.090	0.1052838	0.1040847		-1.1	20
Diisopropyl ether	A	16.000	15.560	0.3736986	0.3634691		-2.7	20
Ethanol	A	4000.0	3929.6	1.803136E-03	1.771401E-03		-1.8	20
Ethyl t-butyl ether	A	16.000	14.950	1.222825	1.142353		-6.6	20
Hexane	A	25.000	24.860	0.6427995	0.6391492		-0.6	20
2-Hexanone	A	320.00	300.02	7.579232E-02	7.106038E-02		-6.2	20
Isobutanol	A	400.00	438.87	5.666875E-03	6.217617E-03		9.7	20
Isopropyl alcohol	A	800.00	819.41	8.311588E-03	8.513295E-03		2.4	20
Methacrylonitrile	A	160.00	152.91	0.0669583	6.399131E-02		-4.4	20
Methyl ethyl ketone	A	160.00	150.32	7.316144E-02	6.873728E-02		-6.0	20
Methyl iodide	A	32.000	34.400	0.5894983	0.6336396		7.5	20
Methyl isobutyl ketone	A	160.00	150.81	0.1118834	0.1054587		-5.7	20
Methyl methacrylate	A	80.000	76.810	7.466178E-02	7.168095E-02		-4.0	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL24.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV2	Injection Time:	16:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	390.39	2.456186E-02	2.397151E-02		-2.4	20
Vinyl acetate	A	160.00	149.46	0.5836509	0.5452114		-6.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL62.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV1	Injection Time:	04:06

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	25.020	2.047739	2.049292		0.08	20	
Bromobenzene	A	25.000	24.940	1.167814	1.164918		-0.2	20	
Bromochloromethane	A	25.000	24.470	0.1664346	0.1628766		-2.1	20	
Bromodichloromethane	A	25.000	25.660	0.2878825	0.2954387		2.6	20	
Bromoform	A	25.000	25.660	0.245463	0.2519355	0.1	2.6	20	
Bromomethane	A	25.000	10.950	0.406522	0.1780058		-56.2	20	*
n-Butylbenzene	A	25.000	24.690	4.798501	4.739087		-1.2	20	
sec-Butylbenzene	A	25.000	26.120	6.314385	6.597652		4.5	20	
tert-Butylbenzene	A	25.000	24.980	4.660614	4.657492		-0.07	20	
Carbon tetrachloride	A	25.000	25.000	0.449341	0.4492854		-0.01	20	
Chlorobenzene	A	25.000	24.480	3.316137	3.246955	0.3	-2.1	20	
Chloroethane	A	25.000	23.930	0.5145747	0.4925845		-4.3	20	
Chloroform	A	25.000	24.340	0.7571101	0.7371863		-2.6	20	
Chloromethane	A	25.000	18.420	0.9407238	0.6930097	0.1	-26.3	20	*
2-Chlorotoluene	A	25.000	25.400	4.677137	4.752464		1.6	20	
4-Chlorotoluene	A	25.000	25.190	4.223867	4.255485		0.7	20	
Dibromochloromethane	A	25.000	26.410	0.1504286	0.1589231		5.6	20	
1,2-Dibromo-3-chloropropane	A	25.000	24.330	7.330085E-02	7.133235E-02		-2.7	20	
1,2-Dibromoethane	A	25.000	24.520	0.1293784	0.1268754		-1.9	20	
Dibromomethane	A	25.000	26.380	9.576412E-02	0.1010519		5.5	20	
1,2-Dichlorobenzene	A	25.000	25.400	2.15653	2.191241		1.6	20	
1,3-Dichlorobenzene	A	25.000	25.610	2.49992	2.56091		2.4	20	
1,4-Dichlorobenzene	A	25.000	25.450	2.443238	2.487359		1.8	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL62.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV1	Injection Time:	04:06

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	25.150	0.4975939	0.500657		0.6	20
1,1-Dichloroethane	A	25.000	24.670	1.070106	1.055806	0.1	-1.3	20
1,2-Dichloroethane	A	25.000	25.130	0.4067953	0.4089365		0.5	20
1,1-Dichloroethene	A	25.000	25.330	0.8069668	0.8176507		1.3	20
cis-1,2-Dichloroethene	A	25.000	24.480	0.5222008	0.5113236		-2.1	20
trans-1,2-Dichloroethene	A	25.000	25.000	0.5009588	0.5009337		-0.005	20
1,2-Dichloropropane	A	25.000	25.440	0.379403	0.3860243		1.7	20
1,3-Dichloropropane	A	25.000	24.420	0.2528371	0.2469534		-2.3	20
2,2-Dichloropropane	A	25.000	19.960	0.602219	0.4807909		-20.2	20 *
1,1-Dichloropropene	A	25.000	24.940	0.6845791	0.6829077		-0.2	20
cis-1,3-Dichloropropene	A	25.000	25.010	0.3594295	0.3595928		0.05	20
trans-1,3-Dichloropropene	A	25.000	25.820	0.2346113	0.2422958		3.3	20
Ethylbenzene	A	25.000	25.520	1.948304	1.988653		2.1	20
Hexachlorobutadiene	A	25.000	24.340	0.86466	0.8417563		-2.6	20
Isopropylbenzene	A	25.000	26.100	5.700983	5.952587		4.4	20
p-Isopropyltoluene	A	25.000	25.330	5.149437	5.217681		1.3	20
Methylene chloride	A	25.000	24.140	0.4314876	0.416594		-3.5	20
Methyl t-butyl ether	A	25.000	24.180	0.603852	0.58416		-3.3	20
Naphthalene	A	25.000	24.330	1.569043	1.526689		-2.7	20
n-Propylbenzene	A	25.000	24.300	7.403456	7.195221		-2.8	20
Styrene	A	25.000	25.560	3.356924	3.432008		2.2	20
1,1,1,2-Tetrachloroethane	A	25.000	26.880	0.8160317	0.8772632		7.5	20
1,1,2,2-Tetrachloroethane	A	25.000	22.310	0.5437402	0.4851785	0.3	-10.8	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL62.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV1	Injection Time:	04:06

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	27.270	0.3290699	0.3589938		9.1	20
Toluene	A	25.000	25.800	0.8662846	0.8938978		3.2	20
1,2,3-Trichlorobenzene	A	25.000	24.190	1.048181	1.014232		-3.2	20
1,2,4-Trichlorobenzene	A	25.000	23.830	1.248966	1.190643		-4.7	20
1,1,1-Trichloroethane	A	25.000	25.130	0.6553918	0.6589214		0.5	20
1,1,2-Trichloroethane	A	25.000	24.540	0.1556498	0.1527893		-1.8	20
Trichloroethene	A	25.000	27.480	0.3434012	0.3774285		9.9	20
Trichlorofluoromethane	A	25.000	26.250	0.6158835	0.6466811		5.0	20
1,2,3-Trichloropropane	A	25.000	26.300	0.1156016	0.1216188		5.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.160	0.4228091	0.4423966		4.6	20
1,2,4-Trimethylbenzene	A	25.000	25.250	4.672745	4.720087		1.0	20
1,3,5-Trimethylbenzene	A	25.000	25.880	4.717828	4.883826		3.5	20
Vinyl chloride	A	25.000	23.730	0.7494116	0.7114132		-5.1	20
Total Xylenes	A	75.000	75.300	2.323025	2.331986		0.4	20
p- & m-Xylenes	A	50.000	49.980	2.383338	2.382529		-0.03	20
o-Xylene	A	25.000	25.320	2.2024	2.230901		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL63.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV2	Injection Time:	04:29

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	319.28	4.120558E-02	4.111289E-02		-0.2	20	
Acetonitrile	A	160.00	168.85	1.962376E-02	2.070906E-02		5.5	20	
Acrolein	A	200.00	257.46	1.822349E-02	2.345888E-02		28.7	20	*
Acrylonitrile	A	80.000	77.880	6.794017E-02	0.0661426		-2.6	20	
Allyl chloride	A	32.000	29.440	1.003175	0.9230582		-8.0	20	
t-Amyl Methyl ether	A	16.000	15.400	0.6727663	0.6474419		-3.8	20	
Benzyl chloride	L	32.000	20.330	0.5754497	0.4036554		-36.5	20	*
t-Butyl alcohol	A	800.00	785.59	0.0118311	1.161799E-02		-1.8	20	
Carbon disulfide	A	32.000	29.850	1.516116	1.414122		-6.7	20	
Chloroprene	A	32.000	29.880	1.054363	0.984633		-6.6	20	
trans-1,4-Dichloro-2-butene	A	80.000	65.870	0.1052838	8.668546E-02		-17.7	20	
Diisopropyl ether	A	16.000	14.450	0.3736986	0.337482		-9.7	20	
Ethanol	A	4000.0	4376.6	1.803136E-03	1.972922E-03		9.4	20	
Ethyl t-butyl ether	A	16.000	15.000	1.222825	1.146136		-6.3	20	
Hexane	A	25.000	22.740	0.6427995	0.5846969		-9.0	20	
2-Hexanone	A	320.00	313.43	7.579232E-02	7.423682E-02		-2.1	20	
Isobutanol	A	400.00	450.72	5.666875E-03	6.385412E-03		12.7	20	
Isopropyl alcohol	A	800.00	857.54	8.311588E-03	8.909354E-03		7.2	20	
Methacrylonitrile	A	160.00	151.34	0.0669583	6.333389E-02		-5.4	20	
Methyl ethyl ketone	A	160.00	153.04	7.316144E-02	0.0699779		-4.4	20	
Methyl iodide	A	32.000	14.480	0.5894983	0.2667353		-54.8	20	*
Methyl isobutyl ketone	A	160.00	155.79	0.1118834	0.1089394		-2.6	20	
Methyl methacrylate	A	80.000	79.900	7.466178E-02	0.0745673		-0.1	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	24JUL63.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV2	Injection Time:	04:29

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	394.71	2.456186E-02	2.423691E-02		-1.3	20
Vinyl acetate	A	160.00	88.970	0.5836509	0.3245575		-44.4	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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San Diego, CA 92123

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL28.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV4	Injection Time:	16:02

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	23.650	2.047739	1.936946		-5.4	20	
Bromobenzene	A	25.000	24.720	1.167814	1.154859		-1.1	20	
Bromochloromethane	A	25.000	24.320	0.1664346	0.1619172		-2.7	20	
Bromodichloromethane	A	25.000	24.660	0.2878825	0.2839162		-1.4	20	
Bromoform	A	25.000	26.010	0.245463	0.2553406	0.1	4.0	20	
Bromomethane	A	25.000	16.130	0.406522	0.2623666		-35.5	20	*
n-Butylbenzene	A	25.000	24.250	4.798501	4.655384		-3.0	20	
sec-Butylbenzene	A	25.000	25.410	6.314385	6.417607		1.6	20	
tert-Butylbenzene	A	25.000	24.050	4.660614	4.483627		-3.8	20	
Carbon tetrachloride	A	25.000	24.090	0.449341	0.4329034		-3.7	20	
Chlorobenzene	A	25.000	24.260	3.316137	3.217623	0.3	-3.0	20	
Chloroethane	A	25.000	22.540	0.5145747	0.4638909		-9.8	20	
Chloroform	A	25.000	23.390	0.7571101	0.7082566		-6.5	20	
Chloromethane	A	25.000	17.890	0.9407238	0.6730381	0.1	-28.5	20	*
2-Chlorotoluene	A	25.000	24.520	4.677137	4.58692		-1.9	20	
4-Chlorotoluene	A	25.000	24.930	4.223867	4.212379		-0.3	20	
Dibromochloromethane	A	25.000	26.240	0.1504286	0.1579074		5.0	20	
1,2-Dibromo-3-chloropropane	A	25.000	25.310	7.330085E-02	0.0742009		1.2	20	
1,2-Dibromoethane	A	25.000	24.480	0.1293784	0.1267087		-2.1	20	
Dibromomethane	A	25.000	24.370	9.576412E-02	9.336764E-02		-2.5	20	
1,2-Dichlorobenzene	A	25.000	25.050	2.15653	2.160864		0.2	20	
1,3-Dichlorobenzene	A	25.000	25.450	2.49992	2.544972		1.8	20	
1,4-Dichlorobenzene	A	25.000	25.570	2.443238	2.498802		2.3	20	

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL28.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV4	Injection Time:	16:02

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.370	0.4975939	0.4651251		-6.5	20
1,1-Dichloroethane	A	25.000	23.820	1.070106	1.019717	0.1	-4.7	20
1,2-Dichloroethane	A	25.000	23.890	0.4067953	0.3887265		-4.4	20
1,1-Dichloroethene	A	25.000	23.680	0.8069668	0.7643478		-5.3	20
cis-1,2-Dichloroethene	A	25.000	23.480	0.5222008	0.4904985		-6.1	20
trans-1,2-Dichloroethene	A	25.000	23.450	0.5009588	0.4699646		-6.2	20
1,2-Dichloropropane	A	25.000	24.270	0.379403	0.3682504		-2.9	20
1,3-Dichloropropane	A	25.000	24.540	0.2528371	0.2482171		-1.8	20
2,2-Dichloropropane	A	25.000	24.340	0.602219	0.5864039		-2.6	20
1,1-Dichloropropene	A	25.000	23.820	0.6845791	0.6521935		-4.7	20
cis-1,3-Dichloropropene	A	25.000	25.500	0.3594295	0.3666079		2.0	20
trans-1,3-Dichloropropene	A	25.000	25.380	0.2346113	0.2381629		1.5	20
Ethylbenzene	A	25.000	25.070	1.948304	1.953916		0.3	20
Hexachlorobutadiene	A	25.000	24.350	0.86466	0.8421478		-2.6	20
Isopropylbenzene	A	25.000	25.180	5.700983	5.740976		0.7	20
p-Isopropyltoluene	A	25.000	24.960	5.149437	5.140364		-0.2	20
Methylene chloride	A	25.000	23.850	0.4314876	0.4116813		-4.6	20
Methyl t-butyl ether	A	25.000	23.770	0.603852	0.5741422		-4.9	20
Naphthalene	A	25.000	24.590	1.569043	1.543546		-1.6	20
n-Propylbenzene	A	25.000	23.820	7.403456	7.055082		-4.7	20
Styrene	A	25.000	25.290	3.356924	3.395824		1.2	20
1,1,1,2-Tetrachloroethane	A	25.000	26.680	0.8160317	0.8707281		6.7	20
1,1,2,2-Tetrachloroethane	A	25.000	25.690	0.5437402	0.5586476	0.3	2.7	20

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL28.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV4	Injection Time:	16:02

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	24.830	0.3290699	0.3267931		-0.7	20
Toluene	A	25.000	24.720	0.8662846	0.8565513		-1.1	20
1,2,3-Trichlorobenzene	A	25.000	23.750	1.048181	0.9956887		-5.0	20
1,2,4-Trichlorobenzene	A	25.000	24.240	1.248966	1.211146		-3.0	20
1,1,1-Trichloroethane	A	25.000	23.670	0.6553918	0.620617		-5.3	20
1,1,2-Trichloroethane	A	25.000	23.910	0.1556498	0.1488783		-4.4	20
Trichloroethene	A	25.000	24.800	0.3434012	0.340652		-0.8	20
Trichlorofluoromethane	A	25.000	23.650	0.6158835	0.5826885		-5.4	20
1,2,3-Trichloropropane	A	25.000	27.120	0.1156016	0.125392		8.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.940	0.4228091	0.4217745		-0.2	20
1,2,4-Trimethylbenzene	A	25.000	24.480	4.672745	4.57544		-2.1	20
1,3,5-Trimethylbenzene	A	25.000	25.230	4.717828	4.761244		0.9	20
Vinyl chloride	A	25.000	22.360	0.7494116	0.6704209		-10.5	20
Total Xylenes	A	75.000	74.120	2.323025	2.295215		-1.2	20
p- & m-Xylenes	A	50.000	49.150	2.383338	2.342756		-1.7	20
o-Xylene	A	25.000	24.970	2.2024	2.200132		-0.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL29.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV5	Injection Time:	16:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	296.79	4.120558E-02	3.821684E-02		-7.3	20	
Acetonitrile	A	160.00	163.67	1.962376E-02	2.007441E-02		2.3	20	
Acrolein	A	200.00	251.03	1.822349E-02	0.0228728		25.5	20	*
Acrylonitrile	A	80.000	73.700	6.794017E-02	6.258956E-02		-7.9	20	
Allyl chloride	A	32.000	28.200	1.003175	0.8841292		-11.9	20	
t-Amyl Methyl ether	A	16.000	14.860	0.6727663	0.6249659		-7.1	20	
Benzyl chloride	L	32.000	30.920	0.5754497	0.6462135		-3.4	20	
t-Butyl alcohol	A	800.00	778.41	0.0118311	1.151186E-02		-2.7	20	
Carbon disulfide	A	32.000	27.990	1.516116	1.326292		-12.5	20	
Chloroprene	A	32.000	27.580	1.054363	0.9087306		-13.8	20	
trans-1,4-Dichloro-2-butene	A	80.000	87.020	0.1052838	0.1145233		8.8	20	
Diisopropyl ether	A	16.000	14.580	0.3736986	0.3406156		-8.9	20	
Ethanol	A	4000.0	4012.7	1.803136E-03	1.80888E-03		0.3	20	
Ethyl t-butyl ether	A	16.000	14.360	1.222825	1.097161		-10.3	20	
Hexane	A	25.000	24.410	0.6427995	0.6276007		-2.4	20	
2-Hexanone	A	320.00	290.99	7.579232E-02	6.892199E-02		-9.1	20	
Isobutanol	A	400.00	432.73	5.666875E-03	6.130577E-03		8.2	20	
Isopropyl alcohol	A	800.00	791.83	8.311588E-03	8.226658E-03		-1.0	20	
Methacrylonitrile	A	160.00	148.43	0.0669583	6.211486E-02		-7.2	20	
Methyl ethyl ketone	A	160.00	144.55	7.316144E-02	6.609869E-02		-9.7	20	
Methyl iodide	A	32.000	10.550	0.5894983	0.1942996		-67.0	20	*
Methyl isobutyl ketone	A	160.00	146.86	0.1118834	0.1026926		-8.2	20	
Methyl methacrylate	A	80.000	78.490	7.466178E-02	7.325259E-02		-1.9	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL29.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV5	Injection Time:	16:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	373.52	2.456186E-02	2.293559E-02		-6.6	20
Vinyl acetate	A	160.00	148.12	0.5836509	0.540297		-7.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CAL1)			Lab File ID: 20JUL03.D		Analyzed: 07/20/17 08:32			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.8		10.35	10.34333	0.0067	+/-1.0	
Cal Standard (1712752-CAL2)			Lab File ID: 20JUL05.D		Analyzed: 07/20/17 09:18			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101		6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.8		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL3)			Lab File ID: 20JUL06.D		Analyzed: 07/20/17 09:42			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.6		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL4)			Lab File ID: 20JUL07.D		Analyzed: 07/20/17 10:05			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.9		6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL5)			Lab File ID: 20JUL08.D		Analyzed: 07/20/17 10:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.0		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL6)			Lab File ID: 20JUL09.D		Analyzed: 07/20/17 10:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.4		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102		10.35	10.34333	0.0067	+/-1.0	

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1712906
Matrix: Water

SDG: 17-20018
Project: Alameda
Instrument: MS-V5
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1712906-ICV1)			Lab File ID: 20JUL12.D		Analyzed: 07/20/17 12:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Initial Cal Blank (1712906-ICB1)			Lab File ID: 20JUL14.D		Analyzed: 07/20/17 12:46			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Check (1712906-CCV1)			Lab File ID: 24JUL02.D		Analyzed: 07/24/17 04:40			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.1	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Blank (1712906-CCB1)			Lab File ID: 24JUL05.D		Analyzed: 07/24/17 05:49			
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.0	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.9	89 - 112	8.61	8.6	0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.4	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Blank (B[G1853-BLK1)			Lab File ID: 24JUL25.D		Analyzed: 07/24/17 13:54			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.3	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-17R_170720 (1720018-08)			Lab File ID: 24JUL26.D		Analyzed: 07/24/17 14:17			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.6	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
LCS (B[G1853-BS1)			Lab File ID: 24JUL27.D		Analyzed: 07/24/17 14:40			
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.1	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Matrix Spike (B[G1853-MS1)			Lab File ID: 24JUL28.D		Analyzed: 07/24/17 15:03			
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.5	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.6	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Matrix Spike Dup (B[G1853-MSD1)			Lab File ID: 24JUL29.D		Analyzed: 07/24/17 15:26			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Check (1712906-CCV4)			Lab File ID: 24JUL32.D		Analyzed: 07/24/17 16:35			
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.5	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1712906-CCB2)			Lab File ID: 24JUL35.D		Analyzed: 07/24/17 17:44			
1,2-Dichloroethane-d4 (Surrogate)	10.000	89.8	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.61	8.6	0.0100	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
26MW03_170720 (1720018-01)			Lab File ID: 24JUL50.D		Analyzed: 07/24/17 23:29			
1,2-Dichloroethane-d4 (Surrogate)	10.000	104	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.0	85 - 114	10.35	10.34333	0.0067	+/-1.0	
26MW08_170720 (1720018-02)			Lab File ID: 24JUL51.D		Analyzed: 07/24/17 23:53			
1,2-Dichloroethane-d4 (Surrogate)	10.000	112	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
DUP06_170720 (1720018-03)			Lab File ID: 24JUL52.D		Analyzed: 07/25/17 00:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.0	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.3	85 - 114	10.35	10.34333	0.0067	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
M14-06_170720 (1720018-04)			Lab File ID: 24JUL53.D		Analyzed: 07/25/17 00:39			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.6	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	102	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-09D_170720 (1720018-05)			Lab File ID: 24JUL54.D		Analyzed: 07/25/17 01:02			
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.4	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.2	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-09S_170720 (1720018-06)			Lab File ID: 24JUL55.D		Analyzed: 07/25/17 01:25			
1,2-Dichloroethane-d4 (Surrogate)	10.000	95.1	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.1	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-14_170720 (1720018-07)			Lab File ID: 24JUL56.D		Analyzed: 07/25/17 01:48			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.9	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-18_170720 (1720018-09)			Lab File ID: 24JUL57.D		Analyzed: 07/25/17 02:11			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.35	10.34333	0.0067	+/-1.0	
M14-20D_170720 (1720018-10)			Lab File ID: 24JUL58.D		Analyzed: 07/25/17 02:34			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.2	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.1	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-21_170720 (1720018-11)			Lab File ID: 24JUL59.D		Analyzed: 07/25/17 02:57			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.6	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1712906	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (1712906-CCV7)			Lab File ID: 24JUL62.D		Analyzed: 07/25/17 04:06			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.1	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.0	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1712906-CCB3)			Lab File ID: 24JUL65.D		Analyzed: 07/25/17 05:15			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.3	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.1	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1713088
Matrix: Water

SDG: 17-20018
Project: Alameda
Instrument: MS-V5
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1713088-ICV1)			Lab File ID: 20JUL12.D		Analyzed: 07/20/17 12:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Initial Cal Blank (1713088-ICB1)			Lab File ID: 20JUL14.D		Analyzed: 07/20/17 12:46			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Check (1713088-CCV1)			Lab File ID: 24JUL62.D		Analyzed: 07/25/17 04:06			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.1	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.5	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.0	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713088-CCB1)			Lab File ID: 24JUL65.D		Analyzed: 07/25/17 05:15			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.3	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.1	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
SB02_170720 (1720018-12)			Lab File ID: 25JUL01.D		Analyzed: 07/25/17 05:38			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.0	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.1	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
EB17_170720 (1720018-13)			Lab File ID: 25JUL02.D		Analyzed: 07/25/17 06:01			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.7	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.0	85 - 114	10.35	10.34333	0.0067	+/-1.0	
EB18_170720 (1720018-14)			Lab File ID: 25JUL03.D		Analyzed: 07/25/17 06:24			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.35	10.34333	0.0067	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713088	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (1713088-CCV4)			Lab File ID: 25JUL28.D		Analyzed: 07/25/17 16:02			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.8	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.1	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.0	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713088-CCB2)			Lab File ID: 25JUL31.D		Analyzed: 07/25/17 17:10			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.6	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.6	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CALD)			Lab File ID: 17JUL50.D			Analyzed: 07/18/17 00:00			
Pentafluorobenzene (IS)	203330	6.57	187618	6.58	108	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALE)			Lab File ID: 17JUL51.D			Analyzed: 07/18/17 00:23			
Pentafluorobenzene (IS)	203353	6.57	187618	6.58	108	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALF)			Lab File ID: 17JUL52.D			Analyzed: 07/18/17 00:46			
Pentafluorobenzene (IS)	209806	6.57	187618	6.58	112	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALG)			Lab File ID: 17JUL53.D			Analyzed: 07/18/17 01:09			
Pentafluorobenzene (IS)	214428	6.57	187618	6.58	114	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALH)			Lab File ID: 17JUL54.D			Analyzed: 07/18/17 01:32			
Pentafluorobenzene (IS)	210761	6.57	187618	6.58	112	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALI)			Lab File ID: 17JUL55.D			Analyzed: 07/18/17 01:55			
Pentafluorobenzene (IS)	228564	6.57	187618	6.58	122	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CAL1)			Lab File ID: 20JUL03.D			Analyzed: 07/20/17 08:32			
Pentafluorobenzene (IS)	217011	6.57	187618	6.58	116	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	90897	9.61	72968	9.61	125	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	336200	7.38	281102	7.38	120	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL2)			Lab File ID: 20JUL05.D			Analyzed: 07/20/17 09:18			
Pentafluorobenzene (IS)	219386	6.58	187618	6.58	117	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	89283	9.61	72968	9.61	122	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	341653	7.38	281102	7.38	122	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL3)			Lab File ID: 20JUL06.D			Analyzed: 07/20/17 09:42			
Pentafluorobenzene (IS)	160100	6.58	187618	6.58	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66101	9.62	72968	9.61	91	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	249503	7.38	281102	7.38	89	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL4)			Lab File ID: 20JUL07.D			Analyzed: 07/20/17 10:05			
Pentafluorobenzene (IS)	187618	6.58	187618	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72968	9.61	72968	9.61	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	281102	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CAL5)			Lab File ID: 20JUL08.D			Analyzed: 07/20/17 10:28			
Pentafluorobenzene (IS)	185328	6.58	187618	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	75612	9.62	72968	9.61	104	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	283937	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL6)			Lab File ID: 20JUL09.D			Analyzed: 07/20/17 10:51			
Pentafluorobenzene (IS)	190235	6.57	187618	6.58	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	79131	9.61	72968	9.61	108	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	291095	7.38	281102	7.38	104	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL7)			Lab File ID: 20JUL15.D			Analyzed: 07/20/17 13:09			
Pentafluorobenzene (IS)	185398	6.57	187618	6.58	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74464	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	284772	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL8)			Lab File ID: 20JUL17.D			Analyzed: 07/20/17 13:55			
Pentafluorobenzene (IS)	181609	6.57	187618	6.58	97	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74489	9.61	72968	9.61	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282158	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL9)			Lab File ID: 20JUL18.D			Analyzed: 07/20/17 14:18			
Pentafluorobenzene (IS)	177625	6.58	187618	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69283	9.62	72968	9.61	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	272450	7.38	281102	7.38	97	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CALA)			Lab File ID: 20JUL19.D			Analyzed: 07/20/17 14:41			
Pentafluorobenzene (IS)	178179	6.58	187618	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71971	9.61	72968	9.61	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269523	7.38	281102	7.38	96	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CALB)			Lab File ID: 20JUL20.D			Analyzed: 07/20/17 15:04			
Pentafluorobenzene (IS)	174621	6.57	187618	6.58	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69099	9.62	72968	9.61	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	263233	7.38	281102	7.38	94	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1712752	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CALC)			Lab File ID: 20JUL21.D			Analyzed: 07/20/17 15:27			
Pentafluorobenzene (IS)	191859	6.57	187618	6.58	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	76272	9.62	72968	9.61	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	287684	7.38	281102	7.38	102	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
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Project: Alameda
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Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1712906-ICV1)			Lab File ID: 20JUL12.D			Analyzed: 07/20/17 12:00			
Pentafluorobenzene (IS)	184644	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74559	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285117	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1712906-ICB1)			Lab File ID: 20JUL14.D			Analyzed: 07/20/17 12:46			
Pentafluorobenzene (IS)	181261	6.57	184644	6.58	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73863	9.61	74559	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281231	7.38	285117	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1712906-ICV2)			Lab File ID: 20JUL24.D			Analyzed: 07/20/17 16:36			
Pentafluorobenzene (IS)	179876	6.58	187618	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74706	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	278423	7.38	281102	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1712906-ICB2)			Lab File ID: 20JUL26.D			Analyzed: 07/20/17 17:22			
Pentafluorobenzene (IS)	171673	6.57	179876	6.58	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71809	9.62	74706	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268403	7.38	278423	7.38	96	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV1)			Lab File ID: 24JUL02.D			Analyzed: 07/24/17 04:40			
Pentafluorobenzene (IS)	191086	6.57	187618	6.58	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	76029	9.61	72968	9.61	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	299997	7.38	281102	7.38	107	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV2)			Lab File ID: 24JUL03.D			Analyzed: 07/24/17 05:03			
Pentafluorobenzene (IS)	187472	6.57	187618	6.58	100	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	75257	9.62	72968	9.61	103	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	292956	7.38	281102	7.38	104	50 - 200	0.0000	+/-0.50	
Calibration Blank (1712906-CCB1)			Lab File ID: 24JUL05.D			Analyzed: 07/24/17 05:49			
Pentafluorobenzene (IS)	191728	6.58	187472	6.57	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74667	9.61	75257	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	291569	7.38	292956	7.38	100	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B[G1853-BLK1)			Lab File ID: 24JUL25.D			Analyzed: 07/24/17 13:54			
Pentafluorobenzene (IS)	185355	6.57	187472	6.57	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74719	9.61	75257	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	287767	7.38	292956	7.38	98	50 - 200	0.0000	+/-0.50	
M14-17R_170720 (1720018-08)			Lab File ID: 24JUL26.D			Analyzed: 07/24/17 14:17			
Pentafluorobenzene (IS)	182457	6.57	187472	6.57	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74192	9.62	75257	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	279624	7.38	292956	7.38	95	50 - 200	0.0000	+/-0.50	
LCS (B[G1853-BS1)			Lab File ID: 24JUL27.D			Analyzed: 07/24/17 14:40			
Pentafluorobenzene (IS)	191745	6.57	187472	6.57	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	77642	9.62	75257	9.62	103	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	289829	7.38	292956	7.38	99	50 - 200	0.0000	+/-0.50	
Matrix Spike (B[G1853-MS1)			Lab File ID: 24JUL28.D			Analyzed: 07/24/17 15:03			
Pentafluorobenzene (IS)	191699	6.58	187472	6.57	102	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	78309	9.62	75257	9.62	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	294564	7.38	292956	7.38	101	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[G1853-MSD1)			Lab File ID: 24JUL29.D			Analyzed: 07/24/17 15:26			
Pentafluorobenzene (IS)	185324	6.58	187472	6.57	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	77365	9.61	75257	9.62	103	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	291602	7.38	292956	7.38	100	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV4)			Lab File ID: 24JUL32.D			Analyzed: 07/24/17 16:35			
Pentafluorobenzene (IS)	197596	6.57	187618	6.58	105	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	77983	9.62	72968	9.61	107	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	299126	7.38	281102	7.38	106	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV5)			Lab File ID: 24JUL33.D			Analyzed: 07/24/17 16:58			
Pentafluorobenzene (IS)	195524	6.58	187618	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	76855	9.62	72968	9.61	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	301296	7.38	281102	7.38	107	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 8/21/2017 11:47:01AM
Project: Alameda
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Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Blank (1712906-CCB2)			Lab File ID: 24JUL35.D			Analyzed: 07/24/17 17:44			
Pentafluorobenzene (IS)	192938	6.57	195524	6.58	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	76046	9.61	76855	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	290446	7.38	301296	7.38	96	50 - 200	0.0000	+/-0.50	
26MW03_170720 (1720018-01)			Lab File ID: 24JUL50.D			Analyzed: 07/24/17 23:29			
Pentafluorobenzene (IS)	188566	6.58	195524	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	77944	9.61	76855	9.62	101	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285586	7.38	301296	7.38	95	50 - 200	0.0000	+/-0.50	
26MW08_170720 (1720018-02)			Lab File ID: 24JUL51.D			Analyzed: 07/24/17 23:53			
Pentafluorobenzene (IS)	185680	6.58	195524	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	80779	9.62	76855	9.62	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	296060	7.38	301296	7.38	98	50 - 200	0.0000	+/-0.50	
DUP06_170720 (1720018-03)			Lab File ID: 24JUL52.D			Analyzed: 07/25/17 00:16			
Pentafluorobenzene (IS)	182723	6.57	195524	6.58	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74781	9.61	76855	9.62	97	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	276152	7.38	301296	7.38	92	50 - 200	0.0000	+/-0.50	
M14-06_170720 (1720018-04)			Lab File ID: 24JUL53.D			Analyzed: 07/25/17 00:39			
Pentafluorobenzene (IS)	184363	6.57	195524	6.58	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72214	9.62	76855	9.62	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	271606	7.38	301296	7.38	90	50 - 200	0.0000	+/-0.50	
M14-09D_170720 (1720018-05)			Lab File ID: 24JUL54.D			Analyzed: 07/25/17 01:02			
Pentafluorobenzene (IS)	181915	6.58	195524	6.58	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	70781	9.62	76855	9.62	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	273719	7.38	301296	7.38	91	50 - 200	0.0000	+/-0.50	
M14-09S_170720 (1720018-06)			Lab File ID: 24JUL55.D			Analyzed: 07/25/17 01:25			
Pentafluorobenzene (IS)	177351	6.58	195524	6.58	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69569	9.62	76855	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	260503	7.38	301296	7.38	86	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712906
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
M14-14_170720 (1720018-07)			Lab File ID: 24JUL56.D			Analyzed: 07/25/17 01:48			
Pentafluorobenzene (IS)	178961	6.57	195524	6.58	92	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70197	9.62	76855	9.62	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	264121	7.38	301296	7.38	88	50 - 200	0.0000	+/-0.50	
M14-18_170720 (1720018-09)			Lab File ID: 24JUL57.D			Analyzed: 07/25/17 02:11			
Pentafluorobenzene (IS)	171481	6.57	195524	6.58	88	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67484	9.61	76855	9.62	88	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	258688	7.38	301296	7.38	86	50 - 200	0.0000	+/-0.50	
M14-20D_170720 (1720018-10)			Lab File ID: 24JUL58.D			Analyzed: 07/25/17 02:34			
Pentafluorobenzene (IS)	174255	6.57	195524	6.58	89	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71494	9.62	76855	9.62	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	263916	7.38	301296	7.38	88	50 - 200	0.0000	+/-0.50	
M14-21_170720 (1720018-11)			Lab File ID: 24JUL59.D			Analyzed: 07/25/17 02:57			
Pentafluorobenzene (IS)	177288	6.57	195524	6.58	91	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72858	9.62	76855	9.62	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274312	7.38	301296	7.38	91	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV7)			Lab File ID: 24JUL62.D			Analyzed: 07/25/17 04:06			
Pentafluorobenzene (IS)	176401	6.57	187618	6.58	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71558	9.62	72968	9.61	98	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	265804	7.38	281102	7.38	95	50 - 200	0.0000	+/-0.50	
Calibration Check (1712906-CCV8)			Lab File ID: 24JUL63.D			Analyzed: 07/25/17 04:29			
Pentafluorobenzene (IS)	189099	6.57	187618	6.58	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74567	9.61	72968	9.61	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	283395	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Calibration Blank (1712906-CCB3)			Lab File ID: 24JUL65.D			Analyzed: 07/25/17 05:15			
Pentafluorobenzene (IS)	187880	6.58	189099	6.57	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74687	9.61	74567	9.61	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	284268	7.38	283395	7.38	100	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project: Alameda
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Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1713088-ICV1)			Lab File ID: 20JUL12.D			Analyzed: 07/20/17 12:00			
Pentafluorobenzene (IS)	184644	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74559	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285117	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713088-ICB1)			Lab File ID: 20JUL14.D			Analyzed: 07/20/17 12:46			
Pentafluorobenzene (IS)	181261	6.57	184644	6.58	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73863	9.61	74559	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281231	7.38	285117	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1713088-ICV2)			Lab File ID: 20JUL24.D			Analyzed: 07/20/17 16:36			
Pentafluorobenzene (IS)	179876	6.58	187618	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74706	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	278423	7.38	281102	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713088-ICB2)			Lab File ID: 20JUL26.D			Analyzed: 07/20/17 17:22			
Pentafluorobenzene (IS)	171673	6.57	179876	6.58	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71809	9.62	74706	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268403	7.38	278423	7.38	96	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV1)			Lab File ID: 24JUL62.D			Analyzed: 07/25/17 04:06			
Pentafluorobenzene (IS)	176401	6.57	187618	6.58	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71558	9.62	72968	9.61	98	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	265804	7.38	281102	7.38	95	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV2)			Lab File ID: 24JUL63.D			Analyzed: 07/25/17 04:29			
Pentafluorobenzene (IS)	189099	6.57	187618	6.58	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74567	9.61	72968	9.61	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	283395	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Calibration Blank (1713088-CCB1)			Lab File ID: 24JUL65.D			Analyzed: 07/25/17 05:15			
Pentafluorobenzene (IS)	187880	6.58	189099	6.57	99	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74687	9.61	74567	9.61	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	284268	7.38	283395	7.38	100	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
SB02_170720 (1720018-12)			Lab File ID: 25JUL01.D			Analyzed: 07/25/17 05:38			
Pentafluorobenzene (IS)	185958	6.57	189099	6.57	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74781	9.62	74567	9.61	100	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285352	7.38	283395	7.38	101	50 - 200	0.0000	+/-0.50	
EB17_170720 (1720018-13)			Lab File ID: 25JUL02.D			Analyzed: 07/25/17 06:01			
Pentafluorobenzene (IS)	184699	6.57	189099	6.57	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	73730	9.61	74567	9.61	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274016	7.38	283395	7.38	97	50 - 200	0.0000	+/-0.50	
EB18_170720 (1720018-14)			Lab File ID: 25JUL03.D			Analyzed: 07/25/17 06:24			
Pentafluorobenzene (IS)	155121	6.57	189099	6.57	82	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	61668	9.61	74567	9.61	83	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	237540	7.38	283395	7.38	84	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV4)			Lab File ID: 25JUL28.D			Analyzed: 07/25/17 16:02			
Pentafluorobenzene (IS)	185391	6.57	187618	6.58	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74177	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281755	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV5)			Lab File ID: 25JUL29.D			Analyzed: 07/25/17 16:25			
Pentafluorobenzene (IS)	183539	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71623	9.61	72968	9.61	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282647	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Calibration Blank (1713088-CCB2)			Lab File ID: 25JUL31.D			Analyzed: 07/25/17 17:10			
Pentafluorobenzene (IS)	188077	6.57	183539	6.58	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	77709	9.62	71623	9.61	108	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	290748	7.38	282647	7.38	103	50 - 200	0.0000	+/-0.50	

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INITIAL CALIBRATION STANDARDS

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1712752
Calibration: 1707017

SDG: 17-20018
Project: Alameda
Instrument: MS-V5

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7F24002	8260 V5 BFB 50NG	1712752-TUN2	17JUL49.D	07/17/17 23:37
7G20063	8260 V5 1712752 TPPH IC1	1712752-CALD	17JUL50.D	07/18/17 00:00
7G20064	8260 V5 1712752 TPPH IC2	1712752-CALE	17JUL51.D	07/18/17 00:23
7G20065	8260 V5 1712752 TPPH IC3	1712752-CALF	17JUL52.D	07/18/17 00:46
7G20066	8260 V5 1712752 TPPH IC4	1712752-CALG	17JUL53.D	07/18/17 01:09
7G20067	8260 V5 1712752 TPPH IC5	1712752-CALH	17JUL54.D	07/18/17 01:32
7G20068	8260 V5 1712752 TPPH IC6	1712752-CALI	17JUL55.D	07/18/17 01:55
7F24002	8260 V5 BFB 50NG	1712752-TUN1	20JUL02.D	07/20/17 08:09
7G20044	8260 V5 1712752 IC1	1712752-CAL1	20JUL03.D	07/20/17 08:32
7G20045	8260 V5 1712752 IC2	1712752-CAL2	20JUL05.D	07/20/17 09:18
7G20046	8260 V5 1712752 IC3	1712752-CAL3	20JUL06.D	07/20/17 09:42
7G20047	8260 V5 1712752 IC4	1712752-CAL4	20JUL07.D	07/20/17 10:05
7G20048	8260 V5 1712752 IC5	1712752-CAL5	20JUL08.D	07/20/17 10:28
7G20049	8260 V5 1712752 IC6	1712752-CAL6	20JUL09.D	07/20/17 10:51
7G20056	8260 V5 1712752 XIC1	1712752-CAL7	20JUL15.D	07/20/17 13:09
7G20057	8260 V5 1712752 XIC2	1712752-CAL8	20JUL17.D	07/20/17 13:55
7G20058	8260 V5 1712752 XIC3	1712752-CAL9	20JUL18.D	07/20/17 14:18
7G20059	8260 V5 1712752 XIC4	1712752-CALA	20JUL19.D	07/20/17 14:41
7G20060	8260 V5 1712752 XIC5	1712752-CALB	20JUL20.D	07/20/17 15:04
7G20061	8260 V5 1712752 XIC6	1712752-CALC	20JUL21.D	07/20/17 15:27

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene	0.5	2.205326	1	2.188152	10	2.178289	25	1.917287	50	1.970505	100	1.826874
Bromobenzene	0.5	1.219182	1	1.216805	10	1.171389	25	1.141355	50	1.141528	100	1.116624
Bromochloromethane	0.5	0.1707748	1	0.1767661	10	0.1705309	25	0.1543114	50	0.1624719	100	0.1637527
Bromodichloromethane	0.5	0.2888162	1	0.2612885	10	0.2951588	25	0.2850666	50	0.2984239	100	0.2985407
Bromoform	0.5	0.2057274	1	0.2048542	10	0.237243	25	0.2574389	50	0.2735148	100	0.2939998
Bromomethane	0.5	0.4056016	1	0.4036265	10	0.4194379	25	0.3840293	50	0.4138878	100	0.4125492
n-Butylbenzene	0.5	5.079156	1	5.143868	10	5.21983	25	4.812707	50	4.647704	100	3.887741
sec-Butylbenzene	0.5	6.710012	1	6.711804	10	7.08428	25	6.565459	50	6.055303	100	4.759451
tert-Butylbenzene	0.5	4.756373	1	4.697087	10	4.878822	25	4.997994	50	4.368193	100	4.265216
Carbon tetrachloride	0.5	0.4114077	1	0.4033074	10	0.4811493	25	0.4442985	50	0.4811005	100	0.4747828
Chlorobenzene	0.5	3.718715	1	3.505819	10	3.379041	25	3.237474	50	3.173113	100	2.882659
Chloroethane	0.5	0.5656856	1	0.5508556	10	0.5391568	25	0.46994	50	0.4862093	100	0.4756012
Chloroform	0.5	0.7884393	1	0.8118567	10	0.7797252	25	0.7046062	50	0.7411616	100	0.7168718
Chloromethane	0.5	1.10575	1	0.9995168	10	0.9853529	25	0.8464923	50	0.8754543	100	0.8317765
2-Chlorotoluene	0.5	4.687283	1	5.164477	10	5.044175	25	4.655328	50	4.583238	100	3.928318
4-Chlorotoluene	0.5	4.382323	1	4.481816	10	4.64285	25	4.255438	50	4.026009	100	3.554765
Dibromochloromethane	0.5	0.1380726	1	0.1181608	10	0.1512567	25	0.1562949	50	0.1665531	100	0.1722335
1,2-Dibromo-3-chloropropane	0.5		1	6.507398E-02	10	6.963586E-02	25	7.759018E-02	50	7.440618E-02	100	7.979806E-02
1,2-Dibromoethane	0.5	0.1390244	1	0.1129216	10	0.1365675	25	0.1245114	50	0.1307515	100	0.1324942
Dibromomethane	0.5	8.863772E-02	1	0.0959453	10	0.103105	25	9.070871E-02	50	0.0977421	100	9.844587E-02
1,2-Dichlorobenzene	0.5	2.246939	1	2.140833	10	2.244323	25	2.128007	50	2.159181	100	2.0199
1,3-Dichlorobenzene	0.5	2.530337	1	2.604527	10	2.703227	25	2.506085	50	2.452092	100	2.203254
1,4-Dichlorobenzene	0.5	2.395899	1	2.476843	10	2.57751	25	2.471593	50	2.453264	100	2.28432
Dichlorodifluoromethane	0.5	0.4018229	1	0.4651619	10	0.5834478	25	0.4982614	50	0.527767	100	0.5091024
1,1-Dichloroethane	0.5	1.128238	1	1.080744	10	1.129469	25	1.011244	50	1.063002	100	1.007938

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Project Manager: Kevin Olness

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane	0.5	0.3840358	1	0.4451059	10	0.4391068	25	0.3850974	50	0.4008601	100	0.3865656
1,1-Dichloroethene	0.5	0.7938768	1	0.8264429	10	0.8811618	25	0.7704058	50	0.8053397	100	0.7645738
cis-1,2-Dichloroethene	0.5	0.5379451	1	0.5619319	10	0.5358463	25	0.4858169	50	0.5074463	100	0.5042185
trans-1,2-Dichloroethene	0.5	0.5264249	1	0.5006701	10	0.5310431	25	0.4693174	50	0.4927404	100	0.4855568
Total 1,2-Dichloroethene	1	0.532185	2	0.531301	20	0.5334447	50	0.4775672	100	0.5000933	200	0.4948876
1,2-Dichloropropane	0.5	0.3746579	1	0.39104	10	0.3895945	25	0.3719575	50	0.37968	100	0.369488
1,3-Dichloropropane	0.5	0.2577037	1	0.2665863	10	0.2493798	25	0.2444977	50	0.2531674	100	0.2456878
2,2-Dichloropropane	0.5	0.5992323	1	0.5587868	10	0.64	25	0.578	50	0.6240741	100	0.613221
1,1-Dichloropropene	0.5	0.685956	1	0.7289435	10	0.7278951	25	0.6364805	50	0.6776871	100	0.6505123
cis-1,3-Dichloropropene	0.5	0.3328971	1	0.3317694	10	0.3690938	25	0.3615001	50	0.3821143	100	0.3792023
trans-1,3-Dichloropropene	0.5	0.1857228	1	0.2073449	10	0.2445983	25	0.2456873	50	0.260574	100	0.2637407
Total 1,3-Dichloropropene	1	0.2593099	2	0.2695571	20	0.306846	50	0.3035937	100	0.3213442	200	0.3214715
Ethylbenzene	0.5	1.933397	1	2.1032	10	2.063766	25	1.930792	50	1.927625	100	1.731043
Hexachlorobutadiene	0.5	0.9727494	1	0.8039604	10	0.8502897	25	0.8577897	50	0.8736814	100	0.8294891
Isopropylbenzene	0.5	6.01384	1	6.197708	10	6.294564	25	5.807965	50	5.443937	100	4.447883
p-Isopropyltoluene	0.5	5.675215	1	5.416149	10	5.722833	25	5.274992	50	4.860035	100	3.9474
Methylene chloride	0.5	~~0.6828225~~	1	0.4693098	10	0.4590943	25	0.4047202	50	0.4129435	100	0.4113701
Methyl t-butyl ether	0.5	0.5949007	1	0.621872	10	0.627589	25	0.5721711	50	0.6097697	100	0.5968097
Naphthalene	0.5	1.449333	1	1.295095	10	1.630989	25	1.613008	50	1.707123	100	1.718713
n-Propylbenzene	0.5	7.843163	1	7.570982	10	7.957535	25	7.067525	50	6.578078	100	~~5.048542~~
Styrene	0.5	3.322662	1	3.513659	10	3.615951	25	3.422815	50	3.346784	100	2.919674
1,1,1,2-Tetrachloroethane	0.5	0.7348977	1	0.7534469	10	0.8415455	25	0.8637923	50	0.8877083	100	0.8147995
1,1,2,2-Tetrachloroethane	0.5	0.4990264	1	0.5452326	10	0.5402339	25	0.5664291	50	0.5528699	100	0.5586496
Tetrachloroethene	0.5	0.3402142	1	0.3382379	10	0.3457113	25	0.312086	50	0.3232717	100	0.3148982
Toluene	0.5	0.9042237	1	0.868103	10	0.9403254	25	0.8511615	50	0.847993	100	0.7859008
1,2,3-Trichlorobenzene	0.5	1.097286	1	0.9971663	10	1.056308	25	1.020776	50	1.070089	100	1.047459

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,4-Trichlorobenzene	0.5	1.251086	1	1.203365	10	1.227546	25	1.250998	50	1.293432	100	1.267368
1,1,1-Trichloroethane	0.5	0.6254982	1	0.6510899	10	0.6849219	25	0.6308968	50	0.6766241	100	0.6633196
1,1,2-Trichloroethane	0.5	0.1444973	1	0.1708459	10	0.1625271	25	0.1509673	50	0.1515498	100	0.1535111
Trichloroethene	0.5	0.3308745	1	0.3413405	10	0.3603684	25	0.3346927	50	0.3492275	100	0.3439039
Trichlorofluoromethane	0.5	0.5650405	1	0.6137128	10	0.6705809	25	0.6016331	50	0.629348	100	0.6149857
1,2,3-Trichloropropane	0.5	~~0.0503867~~	1	9.329884E-02	10	0.1102858	25	0.1262033	50	0.1224488	100	0.1257712
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.3727	1	0.3929148	10	0.477208	25	0.4199171	50	0.4389687	100	0.435146
1,2,4-Trimethylbenzene	0.5	4.913914	1	5.052026	10	5.080891	25	4.637967	50	4.517373	100	3.8343
1,3,5-Trimethylbenzene	0.5	4.969581	1	4.782097	10	5.249436	25	4.834843	50	4.626234	100	3.844775
Vinyl chloride	0.5	0.7736935	1	0.7846444	10	0.7935103	25	0.7054398	50	0.7348614	100	0.7043199
Total Xylenes	1.5	2.506427	3	2.392803	30	2.534773	75	2.325878	150	2.240477	300	1.937794
Total Trihalomethanes	2	8333	4	8151	40	6297.45	100	6876.23	200	7251.58	400	7416.965
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether	2	9.159726E-02	4	9.464281E-02	40	0.1049256	100	0.0975998	200	0.1009555	400	9.820488E-02
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												

AMEC Environmental & Infrastructure-
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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane	0.5	0.5014467	1	0.4756785	10	0.6755117	25	0.7837627	50	0.8954399	100	0.9270817
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												

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Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
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Matrix: Water
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Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes	1	2.665545	2	2.484628	20	2.59251	50	2.358552	100	2.274933	200	1.923861
o-Xylene	0.5	2.188191	1	2.209155	10	2.419298	25	2.260531	50	2.171565	100	1.965659
Total Purgeable Petroleum Hydroc												
1,2-Dichloroethane-d4 (Surrogate)	10	0.3012474	10	0.3018151	10	0.2951343	10	0.2961709	10	0.2815387	10	0.2765317
Toluene-d8 (Surrogate)	10	1.220306	10	1.23463	10	1.223885	10	1.247597	10	1.242184	10	1.240574
4-Bromofluorobenzene (Surrogate)	10	1.433469	10	1.499199	10	1.502352	10	1.520913	10	1.496218	10	1.506919

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
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Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone	16	~~5.913292E-02~~	64	4.599338E-02	160	4.103835E-02	320	4.031304E-02	480	4.108004E-02	800	3.760307E-02
Acetonitrile	8	~~2.695552E-02~~	32	1.960255E-02	80	1.920197E-02	160	2.144367E-02	240	2.002026E-02	400	1.785035E-02
Acrolein	10	1.972513E-02	40	1.667181E-02	100	1.701337E-02	200	1.765107E-02	320	1.949597E-02	500	1.878359E-02
Acrylonitrile	4	6.941822E-02	16	6.623777E-02	40	0.0658311	80	7.210025E-02	128	6.893948E-02	200	6.511422E-02
Allyl chloride	1.6	1.050814	6.4	1.041274	16	0.9506615	32	1.007182	48	1.029587	80	0.9395298
t-Amyl Alcohol	50	8.032449E-03	800	9.524721E-03	1250	9.905137E-03	2500	9.740474E-03	5000	1.046225E-02	10000	9.871505E-03
t-Amyl Methyl ether	0.8	0.7471763	3.2	0.6725988	8	0.6496974	16	0.6548471	24	0.6800442	40	0.6322338
Benzyl chloride	1.6	0.4382151	6.4	0.4365577	16	0.5300994	32	0.633176	48	0.70099	80	0.7136597
t-Butyl alcohol	40	1.143621E-02	160	1.211876E-02	400	1.136453E-02	800	1.229585E-02	1200	1.204151E-02	2000	1.172973E-02
Carbon disulfide	1.6	1.612511	6.4	1.590032	16	1.436133	32	1.534608	48	1.516942	80	1.40647
2-Chloroethyl vinyl ether												
Chloroprene	1.6	1.071512	6.4	1.112796	16	1.008223	32	1.07318	48	1.076242	80	0.9842234

AMEC Environmental & Infrastructure-
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Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chlorotrifluoroethene	0.5		8		12.5		25		50		100	
Cyclohexane	0.5	1.482325	8	1.263236	12.5	1.329052	25	1.267676	50	1.334388	100	1.175706
Cyclohexanone	20	6.358106E-02	80	6.628495E-02	200	6.822814E-02	400	6.908269E-02	640	7.092473E-02	1000	5.899832E-02
trans-1,4-Dichloro-2-butene	4	~~8.074372E-02~~	16	8.737028E-02	40	9.320468E-02	80	0.1065481	120	0.123592	200	0.1157037
1,2-Dichlorotrifluoroethane	0.5	0.6859837	8	0.6588055	12.5	0.6793278	25	0.638394	50	0.676567	100	0.6141745
2,2-Dichloro-1,1,1-trifluoroethane	0.5	0.9083162	8	0.9597198	12.5	0.9983099	25	0.9543751	50	0.985508	100	0.8832252
Diethyl ether	0.5	0.2111134	8	0.2536562	12.5	0.2639223	25	0.2561604	50	0.2694052	100	0.246137
Diisopropyl ether	0.8	0.4214582	3.2	0.3704387	8	0.3696763	16	0.3639739	24	0.3752221	40	0.3414226
1,4-Dioxane	100	9.86052E-04	400	8.876232E-04	1000	8.434942E-04	2000	9.681734E-04	3200	8.77229E-04	5000	8.925488E-04
Ethanol	200	1.798563E-03	800	0.0016678	2000	1.751246E-03	4000	1.971753E-03	6400	1.840862E-03	10000	1.78859E-03
Ethyl Amyl Ketone	0.5	0.3451332	8	0.3841675	12.5	0.397604	25	0.4054744	50	0.4408544	100	0.4016782
Ethyl methacrylate	4	0.1854642	16	0.167105	40	0.168185	80	0.1715498	120	0.174425	200	0.1580578
Ethyl t-butyl ether	0.8	1.363755	3.2	1.239683	8	1.201105	16	1.195171	24	1.20526	40	1.131976
Hexachloroethane												
Hexane	0.5	0.4991424	8	0.6434221	12.5	0.6767831	25	0.6679351	50	0.7140733	100	0.6554412
2-Hexanone	16	8.885617E-02	64	7.654621E-02	160	7.424711E-02	320	7.624129E-02	480	7.405345E-02	800	0.0648097
Isobutanol	20	4.592822E-03	80	5.358352E-03	200	5.606193E-03	400	6.207101E-03	640	6.227684E-03	1000	0.0060091
Isopropyl alcohol	40	6.806977E-03	160	8.425725E-03	400	8.390992E-03	800	9.223449E-03	1280	8.736689E-03	2000	8.285694E-03
Methacrylonitrile	8	7.891132E-02	32	6.557701E-02	80	0.0643209	160	6.549839E-02	240	6.559205E-02	400	6.185011E-02
Methyl acetate	5	0.1224393	80	0.1260496	125	0.1300511	250	0.123479	500	0.1292004	1000	0.1133594
Methylcyclohexane	0.5	0.535165	8	0.6134506	12.5	0.6454469	25	0.6244736	50	0.6667758	100	0.5818325
Methyl ethyl ketone	8	8.272069E-02	32	0.0760769	80	0.071924	160	7.022643E-02	240	7.220876E-02	400	6.581187E-02
5-Methyl-3-heptanone	1	0.4077138	16	0.4610412	25	0.5059596	50	0.4652818	100	0.4843645	200	0.4239197
Methyl iodide	1.6	0.538234	6.4	0.5614139	16	0.5443807	32	0.6237074	48	0.6434877	80	0.6257662
Methyl isobutyl ketone	8	0.128875	32	0.1125832	80	0.108463	160	0.1101708	240	0.111068	400	0.1001404

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl methacrylate	4	8.296988E-02	16	7.179267E-02	40	7.090842E-02	80	7.345802E-02	120	0.0766102	200	7.223151E-02
Pentachloroethane	0.8	0.4131191	3.2	0.3821454	8	0.3937293	16	0.3502018	24	0.4275086	40	0.4334585
Propionitrile	20	2.373542E-02	80	2.597889E-02	200	2.474398E-02	400	2.572553E-02	640	2.474225E-02	1000	2.244508E-02
Tetrahydrofuran	16	5.489204E-02	64	5.170965E-02	160	0.0475095	320	0.0481561	480	4.794157E-02	800	4.440709E-02
Vinyl acetate	8	0.691573	32	0.6018218	80	0.5827319	160	0.5569901	240	0.5691374	400	0.499651
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroca												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

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SDG: 17-20018
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Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												

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Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether												

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane												
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												

AMEC Environmental & Infrastructure-
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Reported: 8/21/2017 11:47:01AM
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Project Number: 5023146096
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroc	50	3.26912	500	3.855426	1000	3.833188	1500	3.697965	2000	3.767286	2500	3.469848
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

AMEC Environmental & Infrastructure-
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	2.047739	7.975319	6.936667	7.509294E-02			15	
Bromobenzene	1.167814	3.645673	10.44	2.779896E-03			15	
Bromochloromethane	0.1664346	4.747927	6.175	8.897551E-02			15	
Bromodichloromethane	0.2878825	4.896981	8.051667	0.0545546			15	
Bromoform	0.245463	14.7808	10.15333	4.894263E-02			SPCC (0.10)	
Bromomethane	0.406522	3.057725	2.436667	0.2126912			15	
n-Butylbenzene	4.798501	10.32777	11.19667	4.432301E-02			15	
sec-Butylbenzene	6.314385	13.16495	10.89	1.492901E-02			15	
tert-Butylbenzene	4.660614	6.172505	10.76167	3.643903E-02			15	
Carbon tetrachloride	0.449341	7.868999	6.71	1.409485E-02			15	
Chlorobenzene	3.316137	8.703972	9.636667	5.028739E-02			SPCC (0.30)	
Chloroethane	0.5145747	8.175335	2.566667	0.2020673			15	
Chloroform	0.7571101	5.641054	6.323333	8.020835E-02			CCC (20)	
Chloromethane	0.9407238	11.41846	1.948333	0.209787			SPCC (0.10)	
2-Chlorotoluene	4.677137	9.281955	10.54	8.602669E-03			15	
4-Chlorotoluene	4.223867	9.200021	10.61	1.653803E-02			15	
Dibromochloromethane	0.1504286	13.17659	9.235	5.969866E-02			15	
1,2-Dibromo-3-chloropropane	7.330085E-02	8.155469	11.664	4.802395E-02			15	
1,2-Dibromoethane	0.1293784	7.339435	9.32	1.632331E-02			15	
Dibromomethane	9.576412E-02	5.552506	7.905	6.711508E-02			15	
1,2-Dichlorobenzene	2.15653	3.913674	11.23833	3.489351E-02			15	
1,3-Dichlorobenzene	2.49992	6.777549	10.97833	3.290541E-02			15	
1,4-Dichlorobenzene	2.443238	3.991734	11.03	1.470375E-02			15	
Dichlorodifluoromethane	0.4975939	12.26991	1.76	8.063699E-03			15	
1,1-Dichloroethane	1.070106	5.014371	5.05	1.556668E-02			SPCC (0.10)	
1,2-Dichloroethane	0.4067953	6.904985	6.998333	5.804784E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethene	0.8069668	5.313301	3.515	0.1557692			CCC (20)	
cis-1,2-Dichloroethene	0.5222008	5.332765	5.821667	7.057926E-02			15	
trans-1,2-Dichloroethene	0.5009588	4.773832	4.501667	0.0902417			15	
Total 1,2-Dichloroethene	0.5115798	4.674194	5.821667	7.057926E-02			15	
1,2-Dichloropropane	0.379403	2.403017	7.831667	0.0524673			CCC (20)	
1,3-Dichloropropane	0.2528371	3.287487	9.078333	4.054708E-02			15	
2,2-Dichloropropane	0.602219	4.985956	5.83	6.523725E-03			15	
1,1-Dichloropropene	0.6845791	5.607404	6.72	9.471379E-02			15	
cis-1,3-Dichloropropene	0.3594295	6.186595	8.398333	4.271731E-02			15	
trans-1,3-Dichloropropene	0.2346113	13.31409	8.82	1.724867E-02			15	
Total 1,3-Dichloropropene	0.2970204	8.91472	8.82	1.724867E-02			15	
Ethylbenzene	1.948304	6.711166	9.69	2.086988E-02			CCC (20)	
Hexachlorobutadiene	0.86466	6.731708	12.17167	3.249952E-02			15	
Isopropylbenzene	5.700983	12.01191	10.23	0.0167001			15	
p-Isopropyltoluene	5.149437	12.94217	10.97	1.272075E-02			15	
Methylene chloride	0.4314876	7.008245	4.15	2.617728E-02			15	
Methyl t-butyl ether	0.603852	3.358593	4.483333	0.1145828			15	
Naphthalene	1.569043	10.53489	12.26	1.714861E-02			15	
n-Propylbenzene	7.403456	7.766669	10.476	5.149431E-02			15	
Styrene	3.356924	7.155197	10.02	0.0198293			15	
1,1,1,2-Tetrachloroethane	0.8160317	7.468304	9.69	2.086988E-02			15	
1,1,2,2-Tetrachloroethane	0.5437402	4.378707	10.40833	0.0365974			SPCC (0.30)	
Tetrachloroethene	0.3290699	4.314963	9.03	1.545367E-02			15	
Toluene	0.8662846	6.097255	8.65	1.331998E-02			CCC (20)	
1,2,3-Trichlorobenzene	1.048181	3.389568	12.38	1.070383E-02			15	
1,2,4-Trichlorobenzene	1.248966	2.496908	12.11	2.449746E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.6553918	3.673248	6.526667	7.946589E-02			15	
1,1,2-Trichloroethane	0.1556498	6.06719	8.963333	5.878091E-02			15	
Trichloroethene	0.3434012	3.079274	7.601667	5.324327E-02			15	
Trichlorofluoromethane	0.6158835	5.608974	2.866667	0.1807154			15	
1,2,3-Trichloropropane	0.1156016	12.14427	10.45	1.965805E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4228091	8.712896	3.531667	0.1142314			15	
1,2,4-Trimethylbenzene	4.672745	10.02384	10.79167	4.231581E-02			15	
1,3,5-Trimethylbenzene	4.717828	10.09625	10.57167	3.709394E-02			15	
Vinyl chloride	0.7494116	5.322207	2.07	5.801038E-03			CCC (20)	
Total Xylenes	2.323025	9.403007	10.01	9.924553E-03			15	
Total Trihalomethanes	7387.704	10.38989	10.15333	4.894263E-02			15	
Acetone	4.120558E-02	7.355169	3.554	0.1542441			15	
Acetonitrile	1.962376E-02	6.640588	3.908	0.1133817			15	
Acrolein	1.822349E-02	7.107257	3.39	2.140274E-03			15	
Acrylonitrile	6.794017E-02	3.939644	4.435	0.1236041			15	
Allyl chloride	1.003175	4.726935	3.98	1.761732E-02			15	
t-Amyl Alcohol	9.589422E-03	8.589473	6.96	9.150358E-02			15	
t-Amyl Methyl ether	0.6727663	5.977467	7.081667	5.899898E-02			15	
Benzyl chloride	0.5754497	21.75697	11.09	1.526915E-02	0.99878		0.99	
t-Butyl alcohol	0.0118311	3.22277	4.273333	0.2423085			15	
Carbon disulfide	1.516116	5.400329	3.79	0.013191			15	
2-Chloroethyl vinyl ether	9.798764E-02	4.768539	8.275	6.513453E-02			15	
Chloroprene	1.054363	4.56629	5.141667	8.153481E-02			15	
Chlorotrifluoroethene							15	
Cyclohexane	1.308731	7.841383	6.611667	5.923215E-02			15	
Cyclohexanone	6.618331E-02	6.533008	10.29167	4.271745E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
trans-1,4-Dichloro-2-butene	0.1052838	14.34315	10.426	5.090708E-02			15	
1,2-Dichlorotrifluoroethane	0.6588754	4.230009	3.296667	0.1557001			15	
2,2-Dichloro-1,1,1-trifluoroethane	0.9482424	4.689324	3.386667	0.1519809			15	
Diethyl ether	0.2500657	8.290032	3.22	2.123135E-02			15	
Diisopropyl ether	0.3736986	7.025495	5.096667	0.1006095			15	
1,4-Dioxane	9.091868E-04	6.11724	7.891667	5.151265E-02			15	
Ethanol	1.803136E-03	5.606357	3.081667	0.5201438			15	
Ethyl Amyl Ketone	0.3958186	7.879599	10.75167	3.756474E-02			15	
Ethyl methacrylate	0.1707978	5.312147	8.848334	4.928121E-02			15	
Ethyl t-butyl ether	1.222825	6.328552	5.583333	9.166626E-02			15	
Hexachloroethane	0.7098202	27.21178	11.4	3.753579E-03	0.99925		0.99	
Hexane	0.6427995	11.57174	4.855	0.1138465			15	
2-Hexanone	7.579232E-02	10.17669	9.091667	4.757151E-02			15	
Isobutanol	5.666875E-03	11.0932	6.84	9.249917E-02			15	
Isopropyl alcohol	8.311588E-03	9.768502	3.746667	0.3235285			15	
Methacrylonitrile	0.0669583	9.006243	6.12	1.277828E-02			15	
Methyl acetate	0.1240965	4.884847	3.965	0.1388816			15	
Methylcyclohexane	0.6111907	7.704348	7.806667	6.510089E-02			15	
Methyl ethyl ketone	7.316144E-02	7.850683	5.796667	9.151477E-02			15	
5-Methyl-3-heptanone	0.4580468	8.020127	10.43167	3.686923E-02			15	
Methyl iodide	0.5894983	7.903214	3.7	1.260276E-02			15	
Methyl isobutyl ketone	0.1118834	8.407287	8.5	0			15	
Methyl methacrylate	7.466178E-02	6.064135	7.871667	5.057399E-02			15	
Pentachloroethane	0.4000271	7.814724	10.79333	5.134563E-02			15	
Propionitrile	2.456186E-02	5.336931	5.881667	0.0697539			15	
Tetrahydrofuran	4.910266E-02	7.462978	6.186667	8.404824E-02			15	

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Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Vinyl acetate	0.5836509	10.82416	5.053333	0.1030703			15	
p- & m-Xylenes	2.383338	11.21367	9.77	1.748639E-02			15	
o-Xylene	2.2024	6.662899	10.01	9.924553E-03			15	
Total Purgeable Petroleum Hydrocarbons	3.648805	6.360727	9.568334	4.958059			15	
1,2-Dichloroethane-d4 (Surrogate)	0.292073	3.616111	6.916667	7.506552E-02			15	
Toluene-d8 (Surrogate)	1.234863	0.8727884	8.6	4.975675E-03			15	
4-Bromofluorobenzene (Surrogate)	1.493178	2.042971	10.34333	4.926945E-02			15	

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Project Number: 5023146096
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HOLDING TIME SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/24/17 12:00	4.00	14.00	07/24/17 23:29	4.00	14.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/24/17 12:00	4.00	14.00	07/24/17 23:53	4.00	14.00	
DUP06_170720	07/20/17 09:45	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 00:16	5.00	14.00	
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 00:39	5.00	14.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 01:02	5.00	14.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 01:25	5.00	14.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 01:48	5.00	14.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/24/17 12:00	4.00	14.00	07/24/17 14:17	4.00	14.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 02:11	5.00	14.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 02:34	5.00	14.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 02:57	5.00	14.00	
SB02_170720	07/20/17 11:10	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 05:38	5.00	14.00	
EB17_170720	07/20/17 14:20	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 06:01	5.00	14.00	
EB18_170720	07/20/17 14:25	07/20/17 23:10	07/24/17 12:00	5.00	14.00	07/25/17 06:24	5.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MS-V5

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL50.D Vial: 50
Acq On : 24 Jul 2017 11:29 pm Operator: MGC
Sample : 1720018-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:01 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	188566	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	285586	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	77944	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	57489	10.44	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 104.40%			
31) Toluene d8 SMC#2	8.60	98	352280	9.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.90%			
49) Bromofluorobenzene SMC#3	10.35	95	115216	9.90	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.00%			

Target Compounds

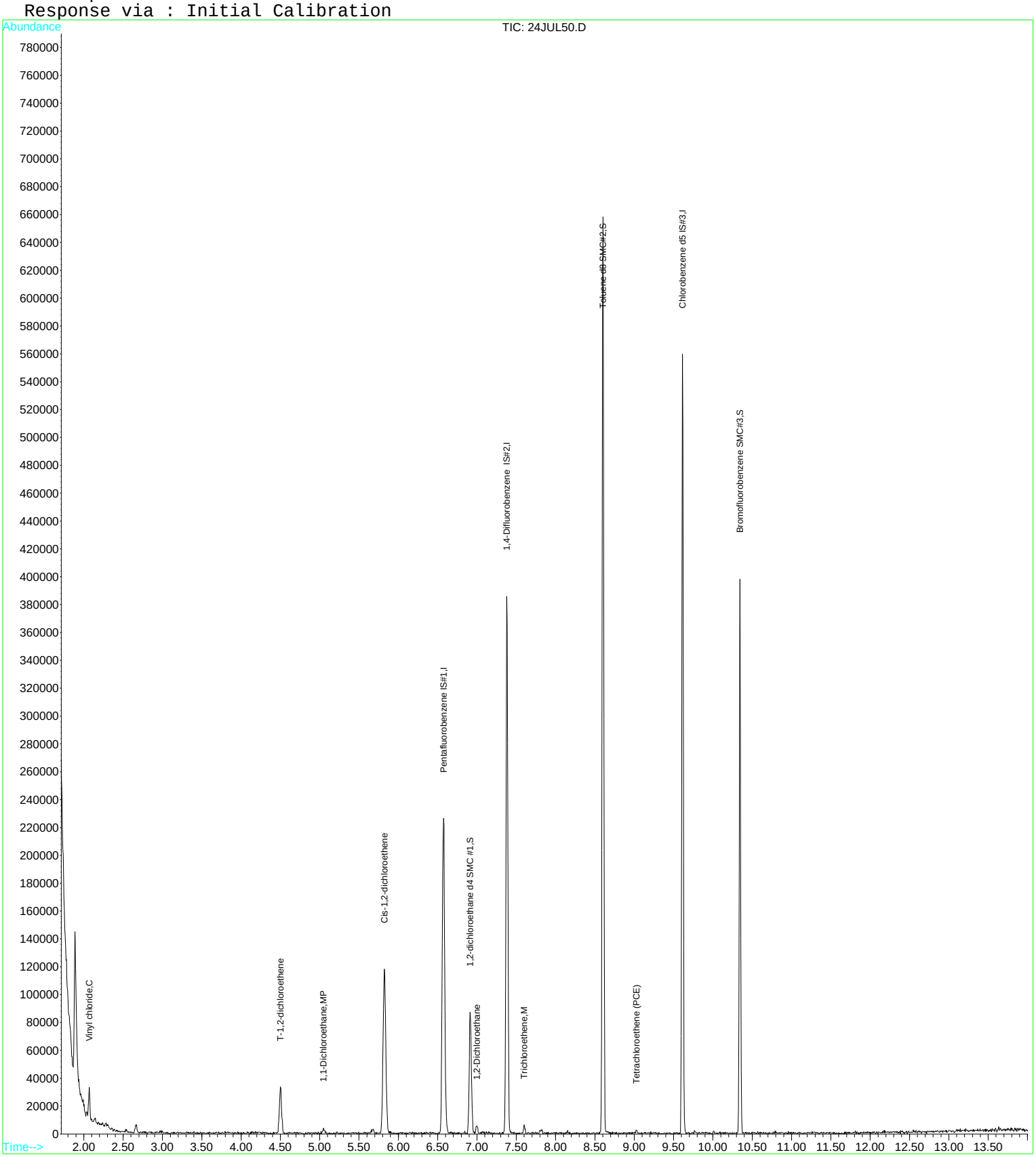
						Qvalue
4) Vinyl chloride	2.07	62	14514	1.03	ug/L #	69
12) T-1,2-dichloroethene	4.50	96	12512	1.32	ug/L	94
13) 1,1-Dichloroethane	5.05	63	4308	0.21	ug/L	97
15) Cis-1,2-dichloroethene	5.82	96	62830	6.38	ug/L	89
22) 1,2-Dichloroethane	6.99	62	4108	0.54	ug/L #	88
25) Trichloroethene	7.60	130	1408	0.14	ug/L	87
35) Tetrachloroethene (PCE)	9.02	166	1060	0.11	ug/L #	55

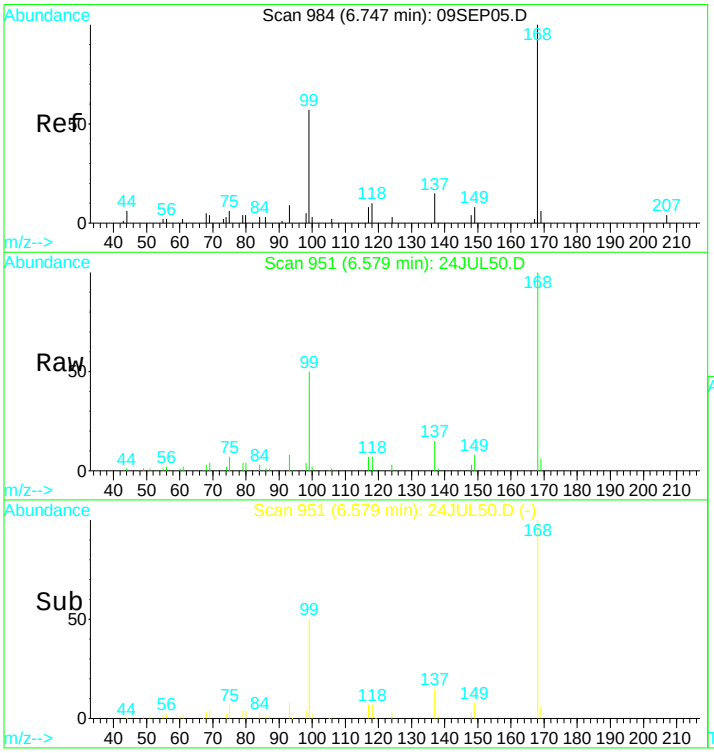
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL50.D Vial: 50
Acq On : 24 Jul 2017 11:29 pm Operator: MGC
Sample : 1720018-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:01 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

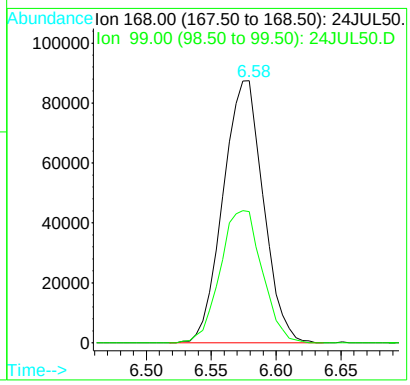


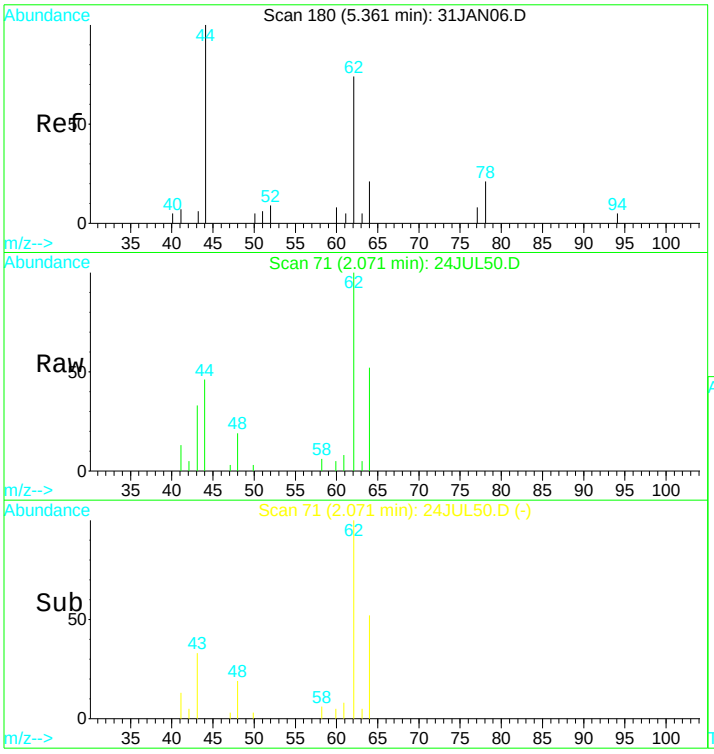


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion:168 Resp: 188566

Ion	Ratio	Lower	Upper
168	100		
99	52.5	38.7	71.9

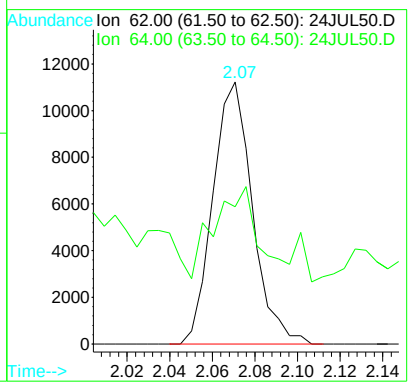


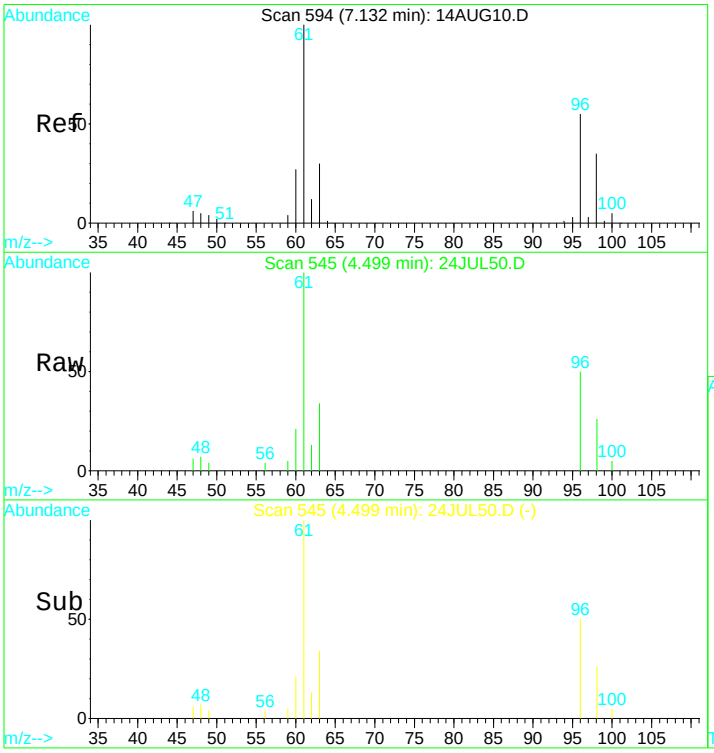


#4
Vinyl chloride
Concen: 1.03 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 62 Resp: 14514

Ion	Ratio	Lower	Upper
62	100		
64	78.4	39.3	72.9#

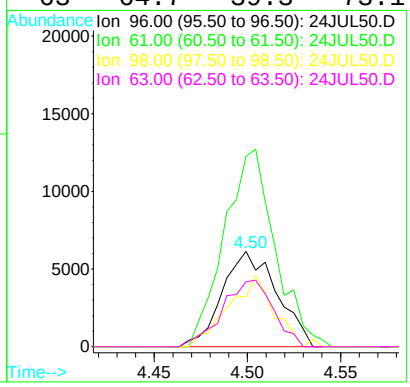


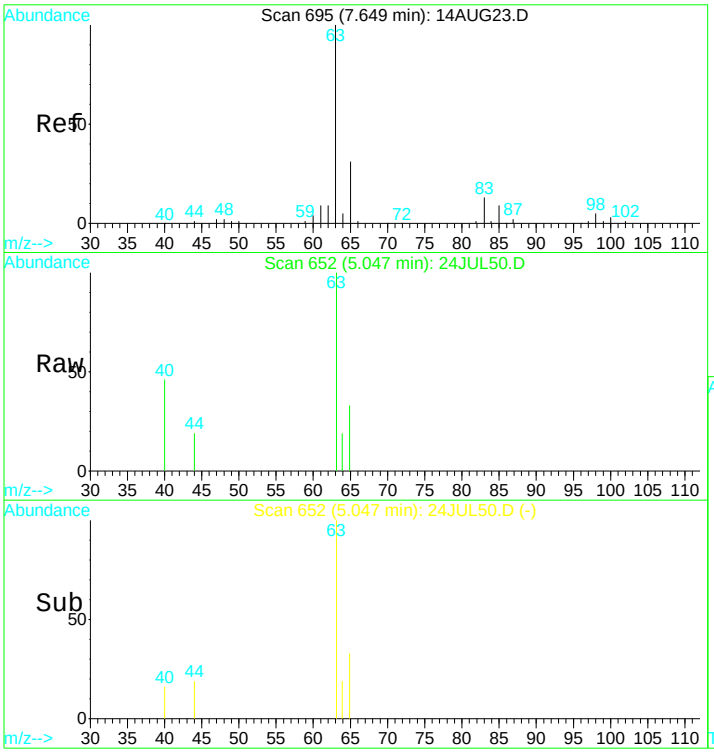


#12
T-1,2-dichloroethene
Concen: 1.32 ug/L
RT: 4.50 min Scan# 545
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 96 Resp: 12512

Ion	Ratio	Lower	Upper
96	100		
61	192.1	129.4	240.4
98	62.7	41.5	77.1
63	64.7	39.3	73.1

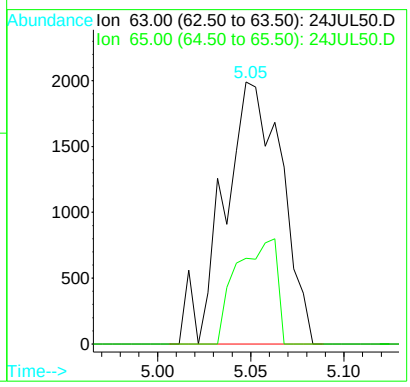


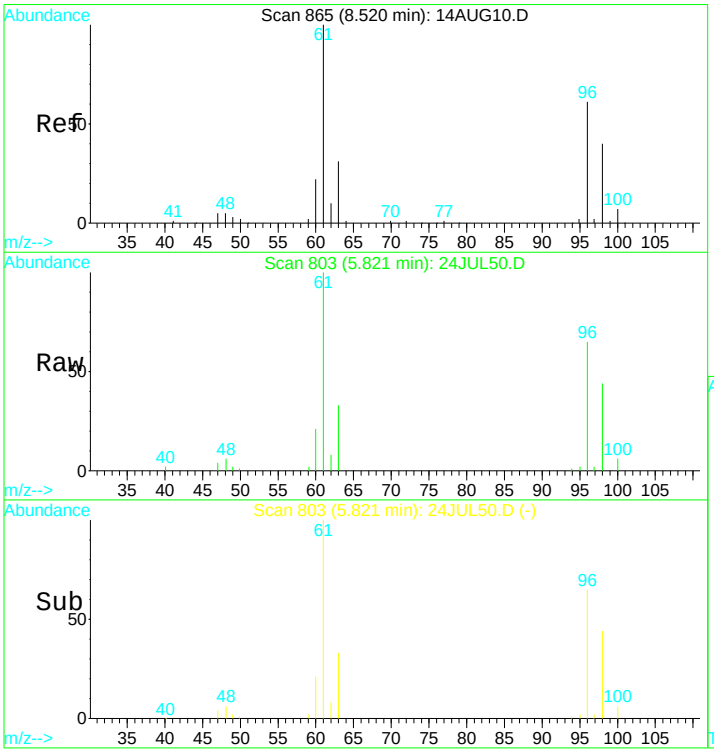


#13
1,1-Dichloroethane
Concen: 0.21 ug/L
RT: 5.05 min Scan# 652
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 63 Resp: 4308

Ion	Ratio	Lower	Upper
63	100		
65	27.9	20.8	38.6

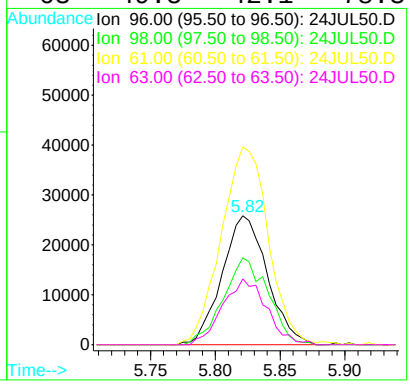


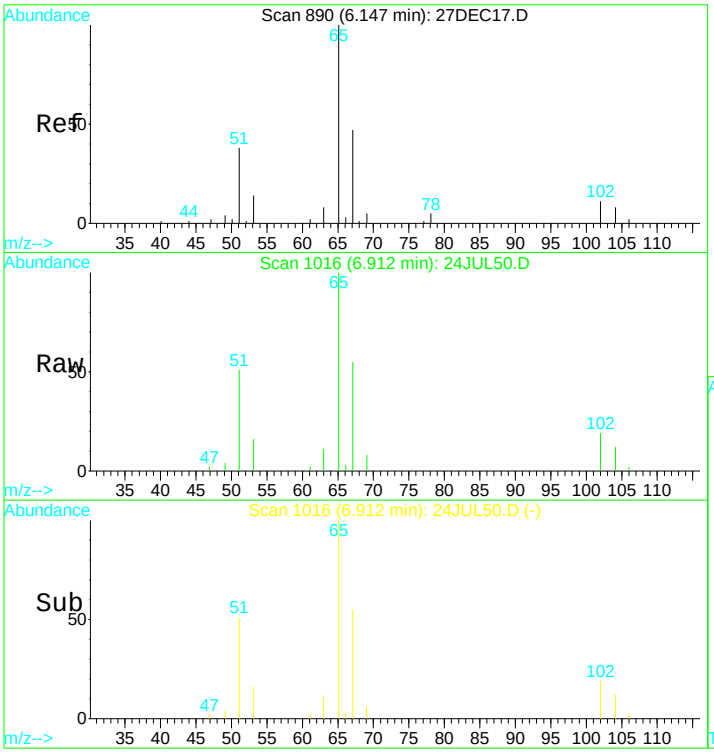


#15
Cis-1,2-dichloroethene
Concen: 6.38 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 96 Resp: 62830

Ion	Ratio	Lower	Upper
96	100		
98	66.4	51.9	96.3
61	159.7	122.8	228.0
63	49.5	42.1	78.3

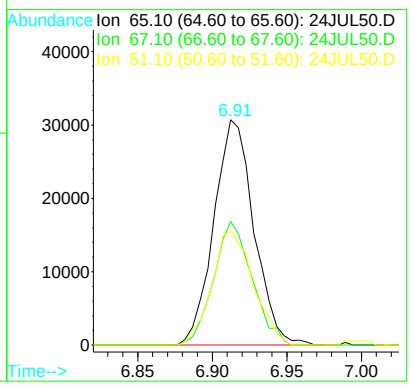


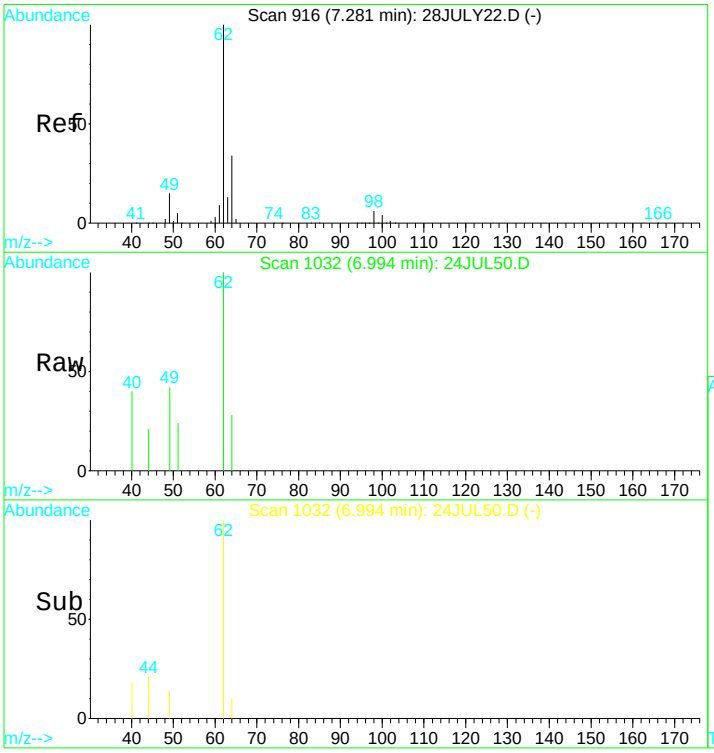


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 65 Resp: 57489

Ion	Ratio	Lower	Upper
65	100		
67	52.6	36.2	67.2
51	52.5	42.0	78.0

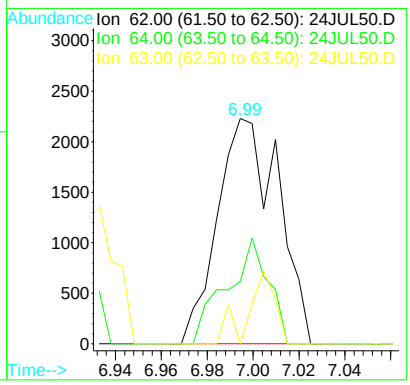


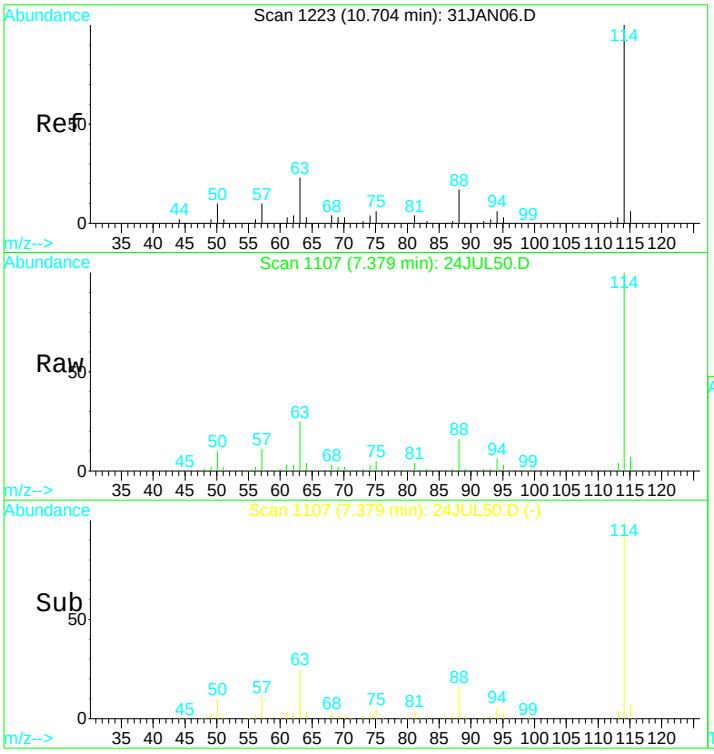


#22
1,2-Dichloroethane
Concen: 0.54 ug/L
RT: 6.99 min Scan# 1032
Delta R.T. -0.01 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 62 Resp: 4108

Ion	Ratio	Lower	Upper
62	100		
64	32.4	18.8	35.0
63	14.6	5.8	10.8#

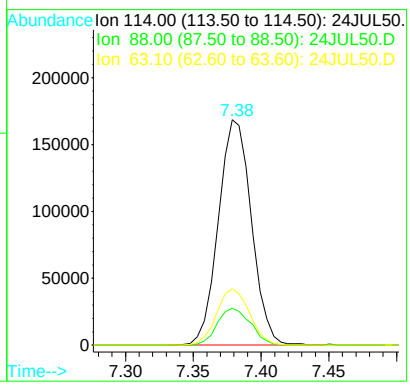


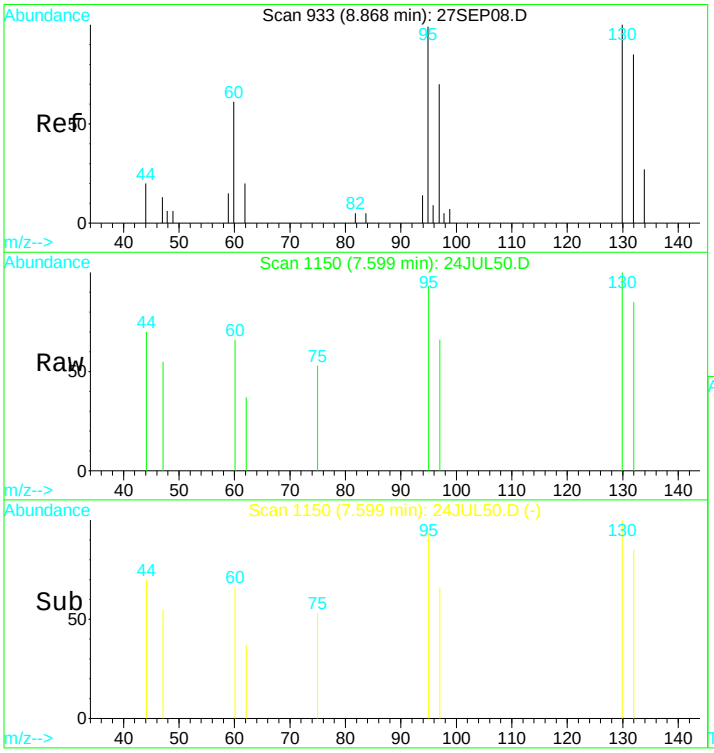


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion:114 Resp: 285586

Ion	Ratio	Lower	Upper
114	100		
88	16.4	11.7	21.7
63	24.8	16.7	30.9

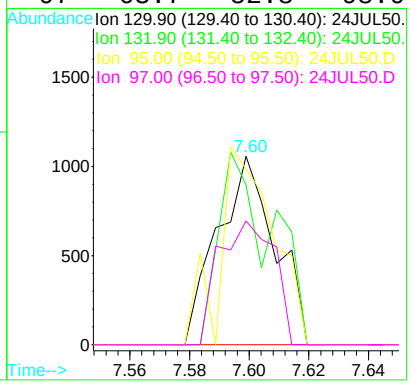


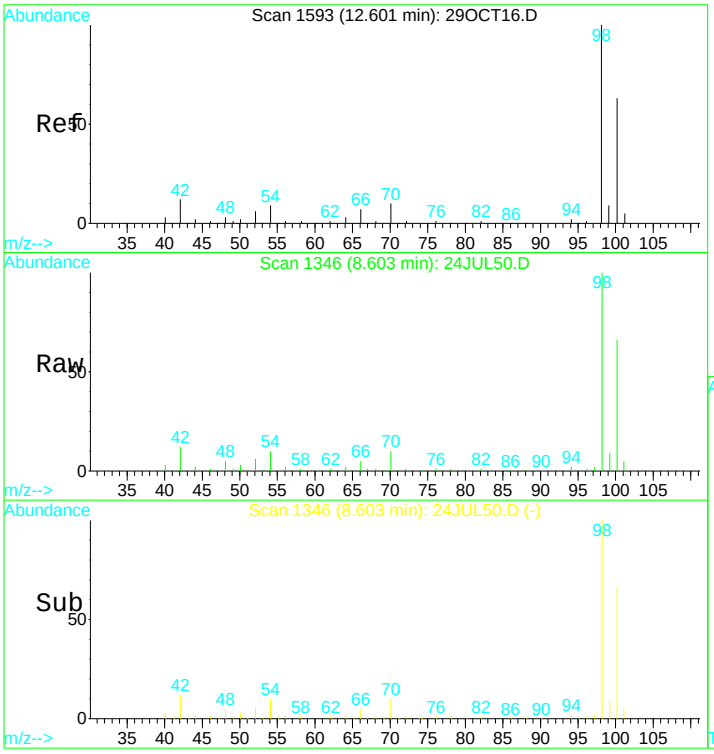


#25
Trichloroethene
Concen: 0.14 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion:130 Resp: 1408

Ion	Ratio	Lower	Upper
130	100		
132	94.5	66.1	122.7
95	98.2	86.1	159.9
97	63.7	52.8	98.0

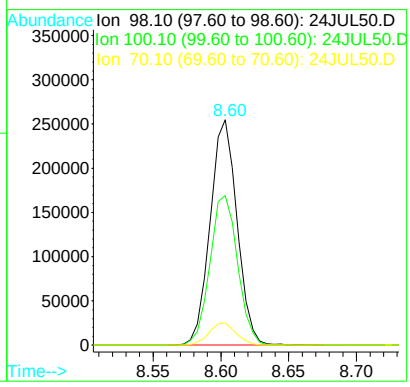


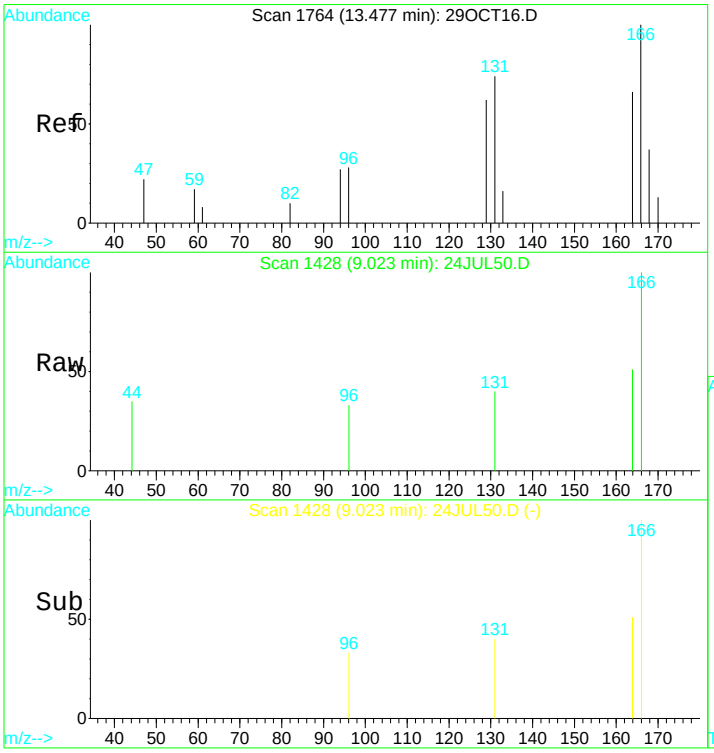


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 98 Resp: 352280

Ion	Ratio	Lower	Upper
98	100		
100	68.2	49.7	92.3
70	9.9	7.3	13.7

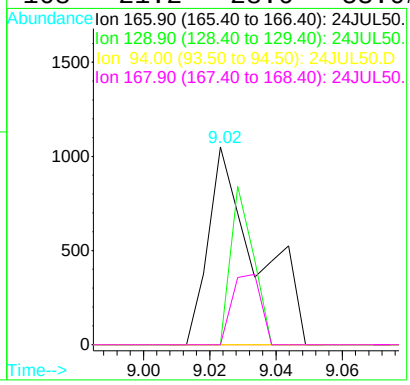


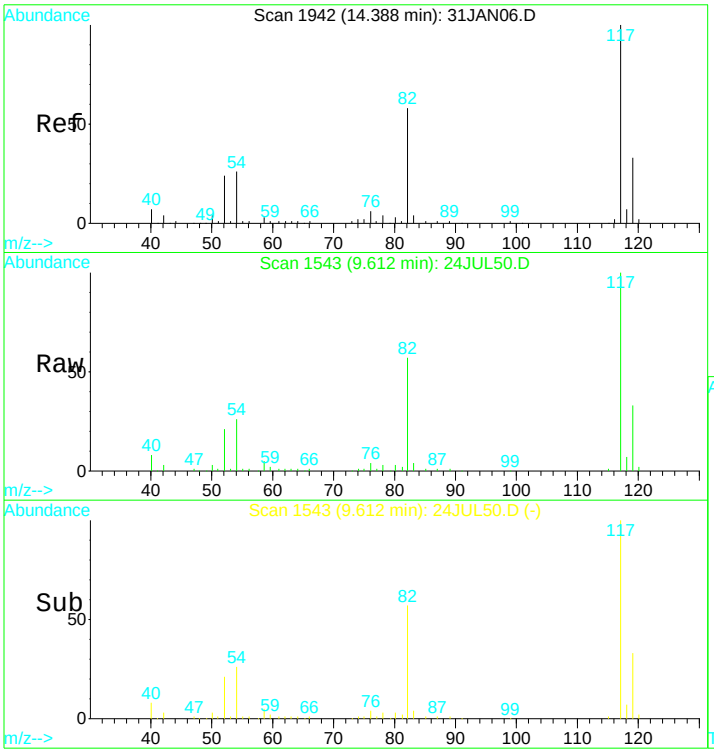


#35
Tetrachloroethene (PCE)
Concen: 0.11 ug/L
RT: 9.02 min Scan# 1428
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion:166 Resp: 1060

Ion	Ratio	Lower	Upper
166	100		
129	37.5	54.3	100.8#
94	0.0	24.1	44.7#
168	21.2	28.6	53.0#

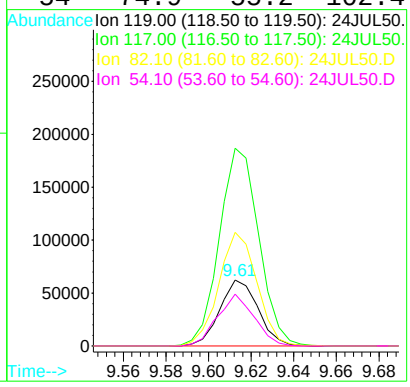


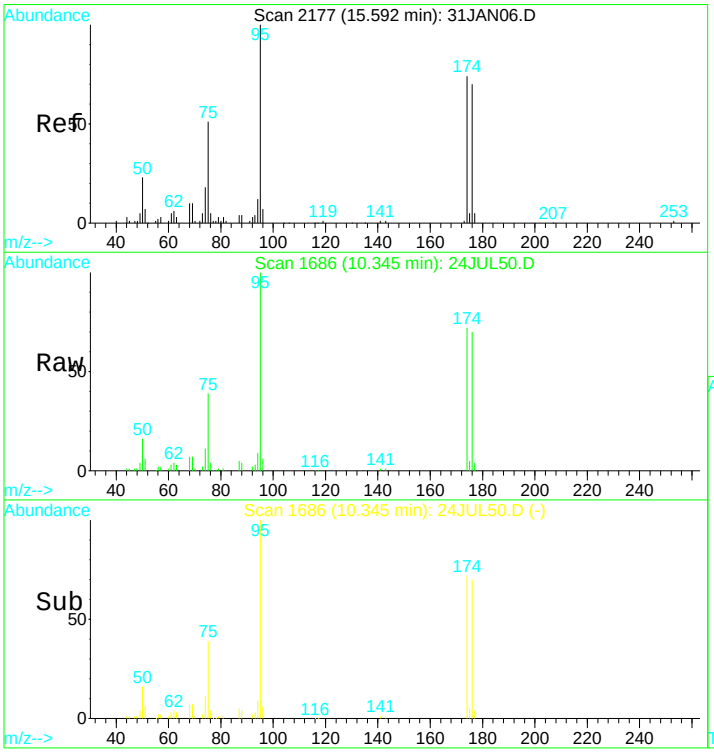


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion:119 Resp: 77944

Ion	Ratio	Lower	Upper
119	100		
117	309.1	214.5	398.4
82	171.8	117.7	218.7
54	74.9	55.2	102.4

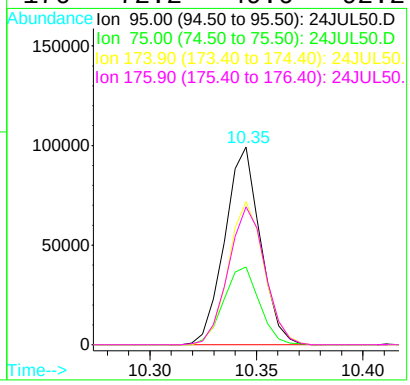




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL50.D
Acq: 24 Jul 2017 11:29 pm

Tgt Ion: 95 Resp: 115216

Ion	Ratio	Lower	Upper
95	100		
75	39.7	29.5	54.7
174	73.1	52.3	97.1
176	72.2	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL50.D Vial: 50
Acq On : 24 Jul 2017 11:29 pm Operator: MGC
Sample : 1720018-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:22 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	188566	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	285586	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	77944	10.00	ug/L	0.00

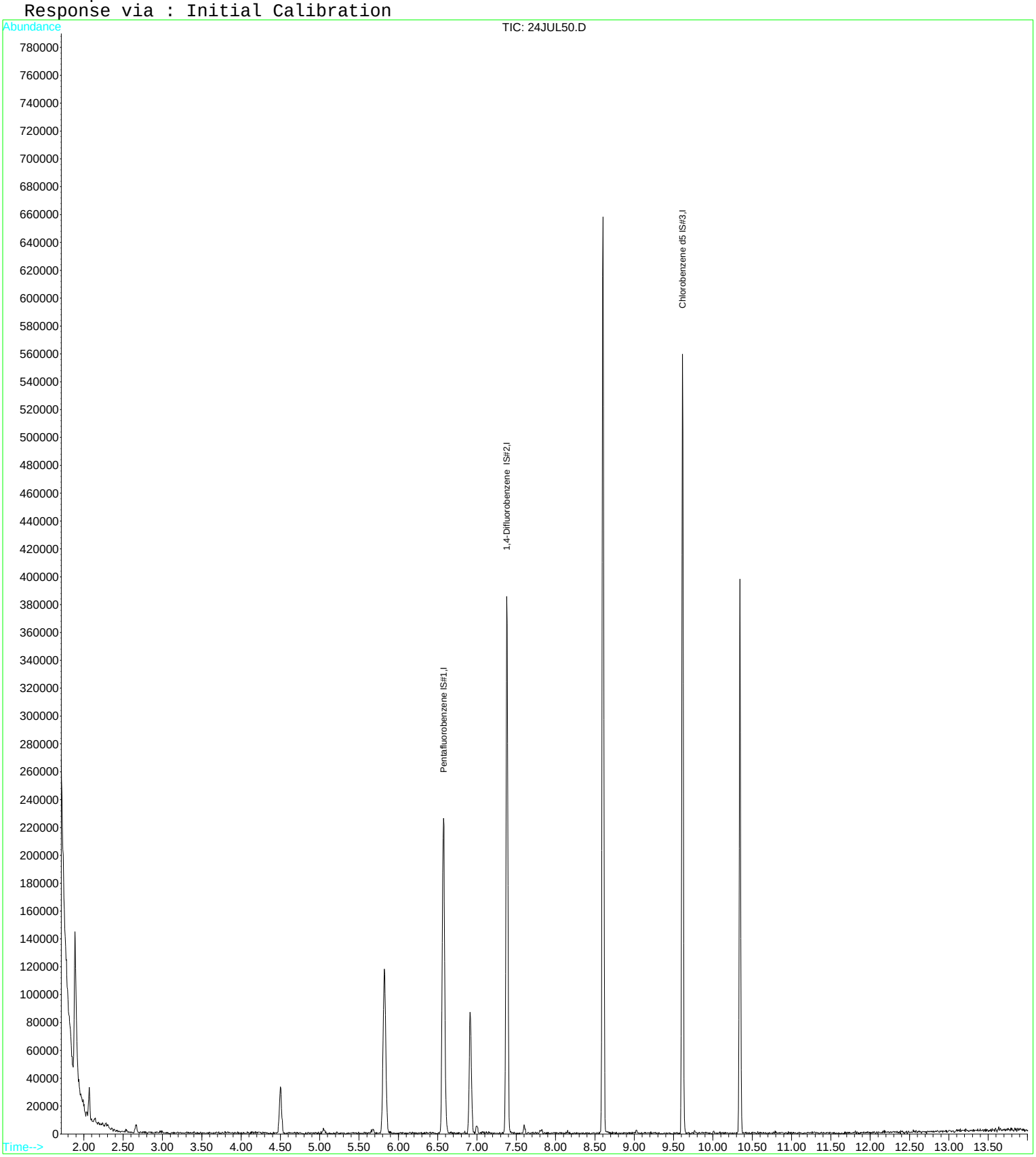
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL50.D Vial: 50
Acq On : 24 Jul 2017 11:29 pm Operator: MGC
Sample : 1720018-01 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:22 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL51.D Vial: 51
Acq On : 24 Jul 2017 11:53 pm Operator: MGC
Sample : 1720018-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:02 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185680	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	296060	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	80779	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	60998	11.25	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 112.50%			
31) Toluene d8 SMC#2	8.60	98	358520	9.81	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.10%			
49) Bromofluorobenzene SMC#3	10.34	95	120271	9.97	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.70%			

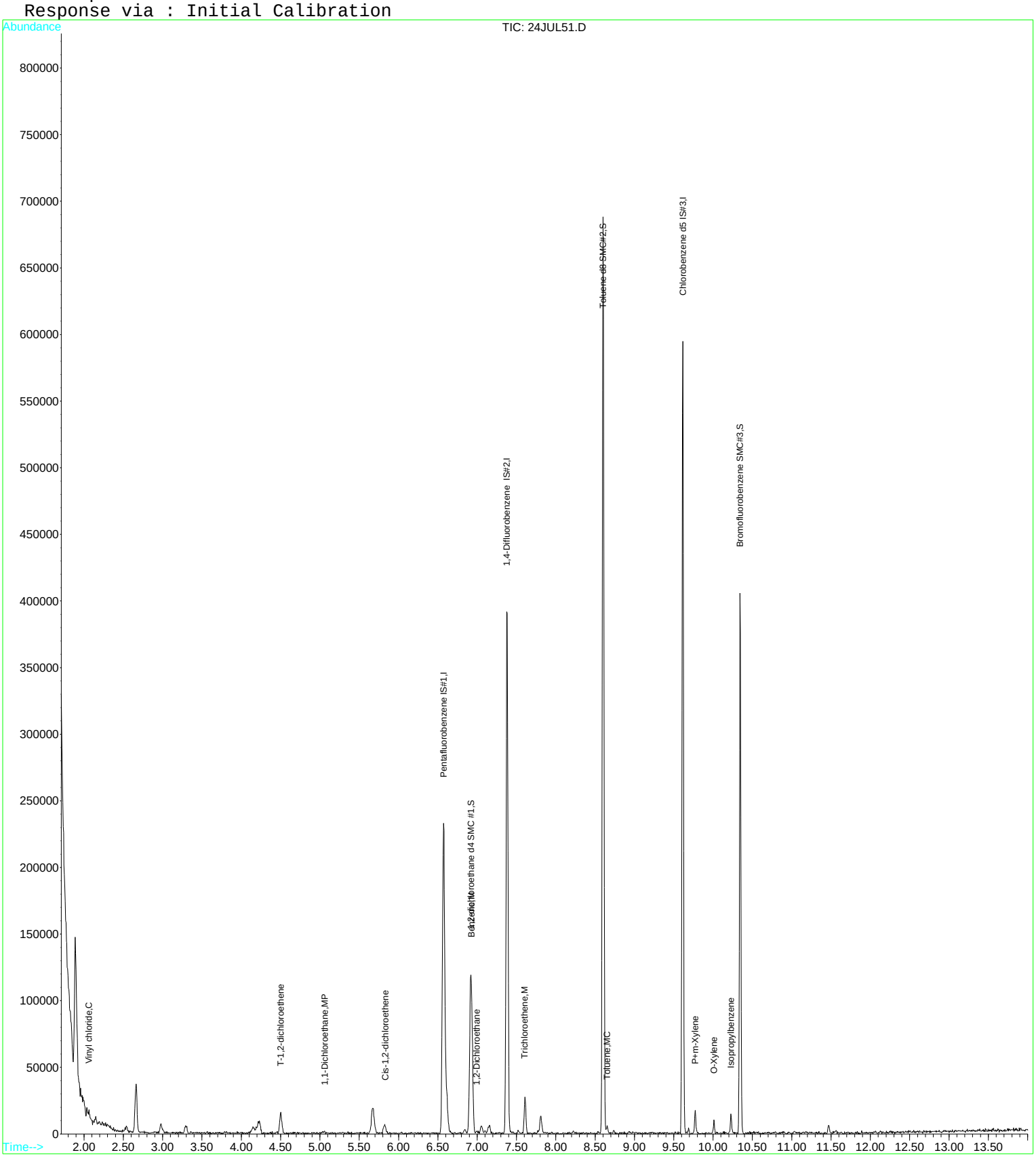
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	1805	0.13	ug/L #	23
12) T-1,2-dichloroethene	4.50	96	4318	0.46	ug/L	87
13) 1,1-Dichloroethane	5.06	63	2467	0.12	ug/L #	63
15) Cis-1,2-dichloroethene	5.84	96	3541	0.37	ug/L #	89
22) 1,2-Dichloroethane	7.00	62	1681	0.22	ug/L #	66
23) Benzene	6.93	78	57271	1.51	ug/L #	39
25) Trichloroethene	7.60	130	564	0.06	ug/L #	43
32) Toluene	8.65	92	1996	0.08	ug/L #	96
43) P+m-Xylene	9.77	106	3827	0.20	ug/L #	68
44) O-Xylene	10.01	106	2218	0.12	ug/L #	71
47) Isopropylbenzene	10.23	105	8209	0.18	ug/L	100

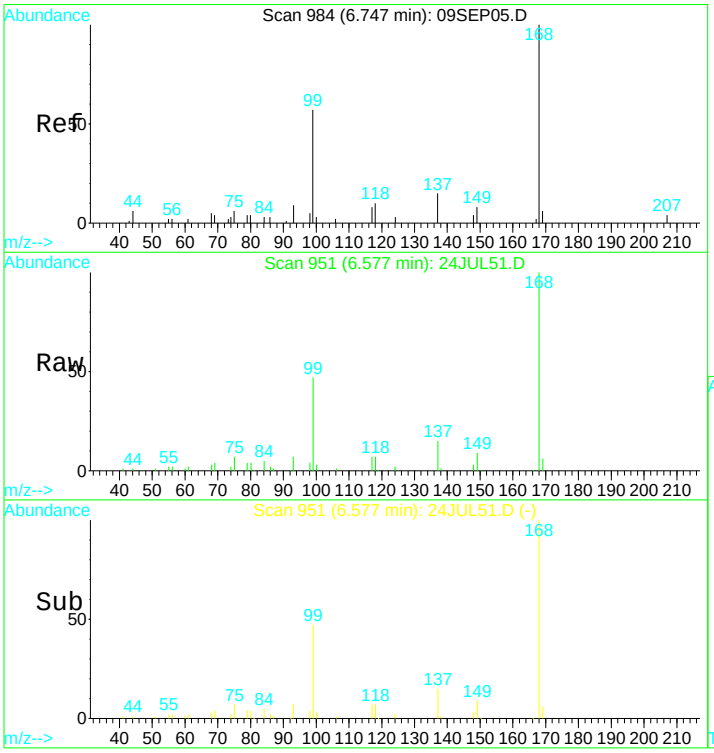
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL51.D Vial: 51
Acq On : 24 Jul 2017 11:53 pm Operator: MGC
Sample : 1720018-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:02 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

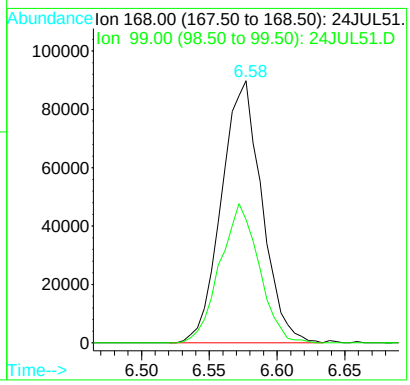


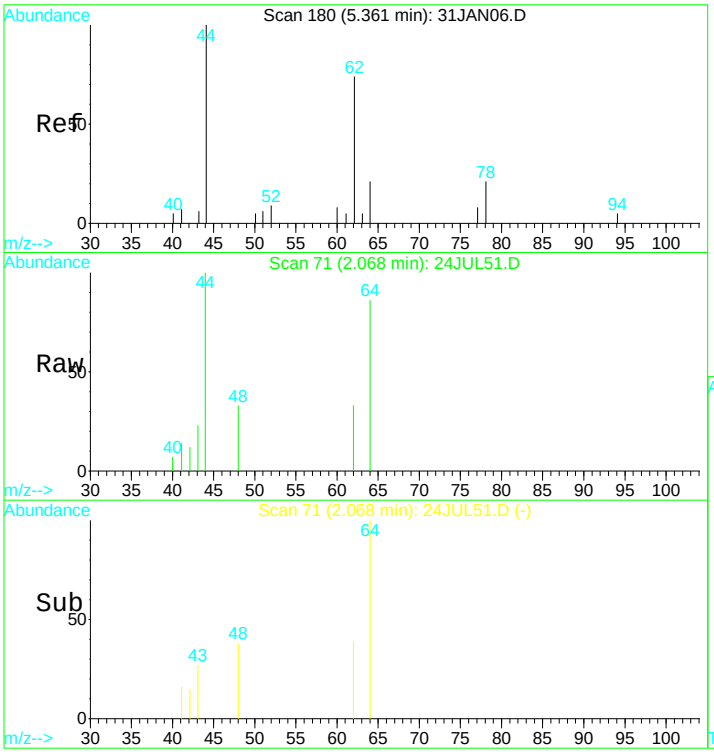


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:168 Resp: 185680

Ion	Ratio	Lower	Upper
168	100		
99	51.5	38.7	71.9

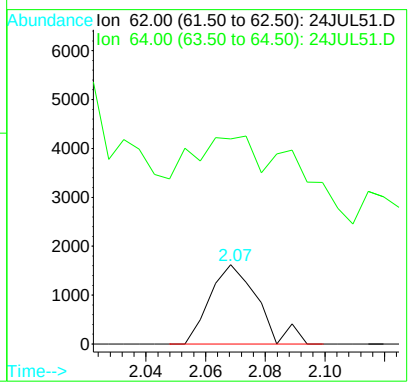


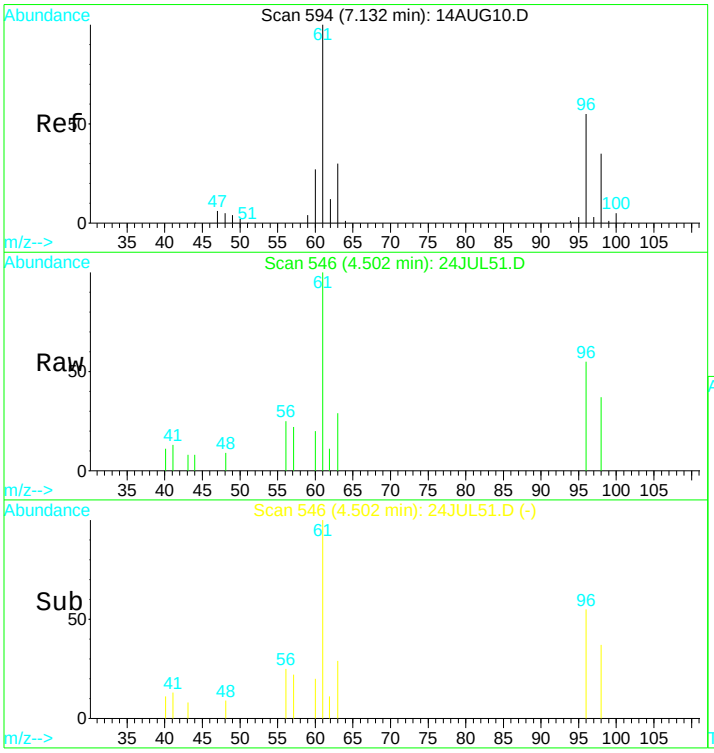


#4
Vinyl chloride
Concen: 0.13 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 62 Resp: 1805

Ion	Ratio	Lower	Upper
62	100		
64	0.0	39.3	72.9#

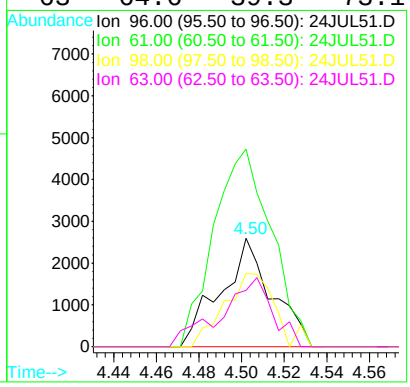


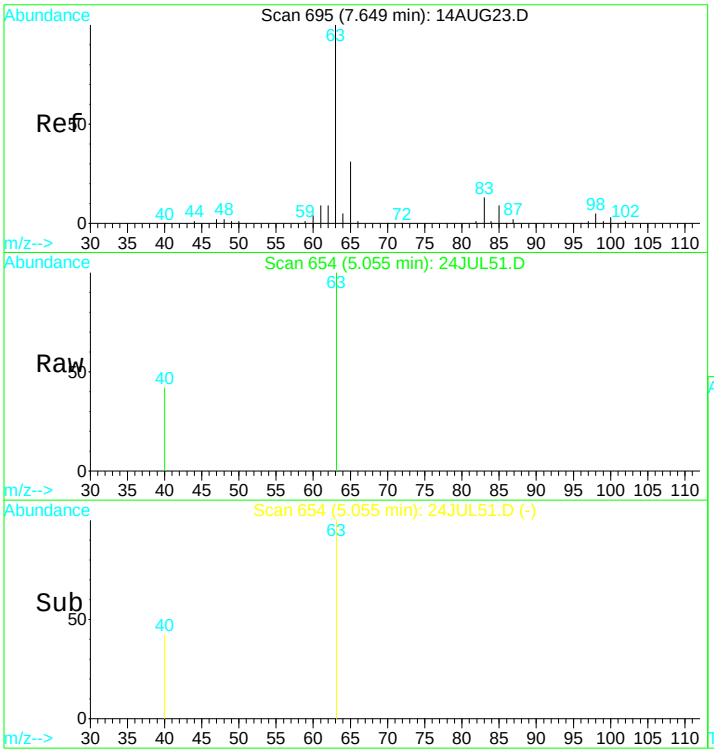


#12
T-1,2-dichloroethene
Concen: 0.46 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 96 Resp: 4318

Ion	Ratio	Lower	Upper
96	100		
61	205.1	129.4	240.4
98	67.0	41.5	77.1
63	64.6	39.3	73.1

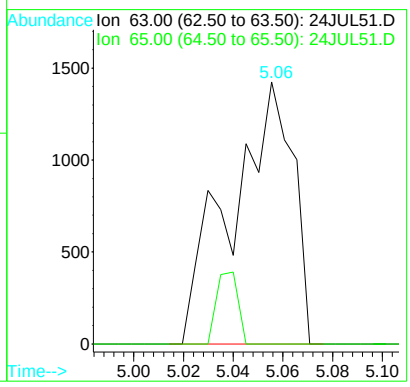


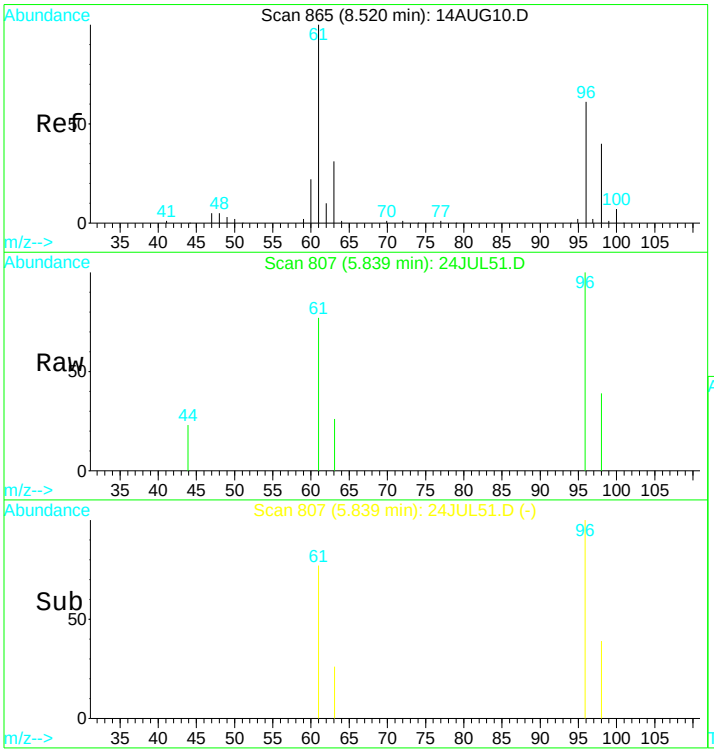


#13
1,1-Dichloroethane
Concen: 0.12 ug/L
RT: 5.06 min Scan# 654
Delta R.T. 0.01 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 63 Resp: 2467

Ion	Ratio	Lower	Upper
63	100		
65	9.6	20.8	38.6#

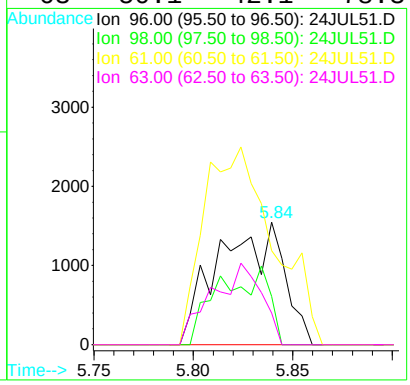


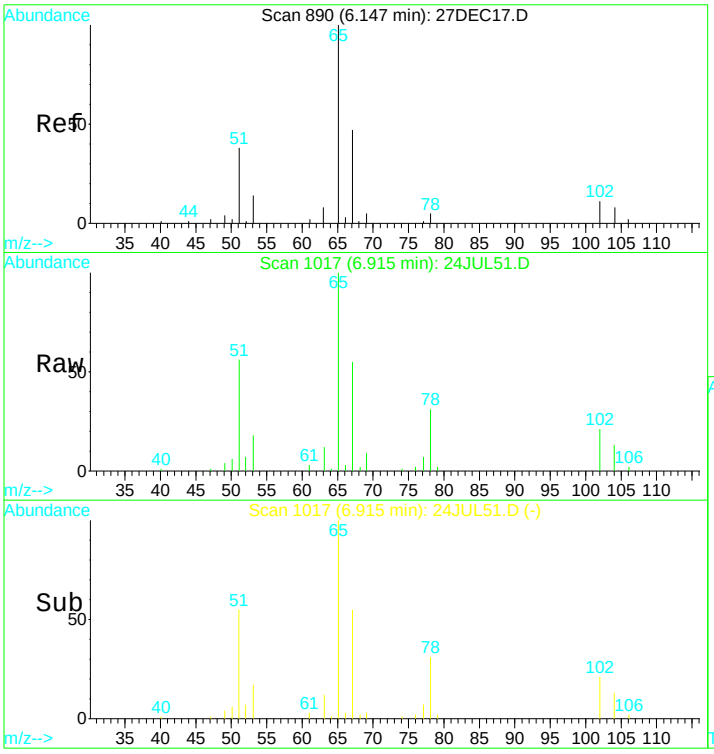


#15
Cis-1,2-dichloroethene
Concen: 0.37 ug/L
RT: 5.84 min Scan# 807
Delta R.T. 0.02 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 96 Resp: 3541

Ion	Ratio	Lower	Upper
96	100		
98	48.6	51.9	96.3#
61	172.0	122.8	228.0
63	50.1	42.1	78.3

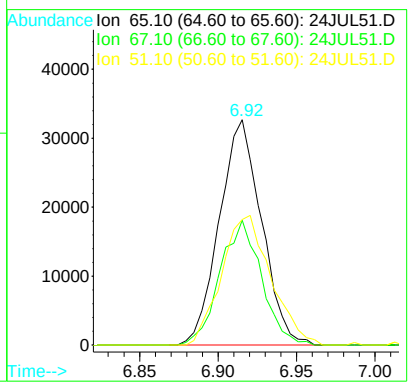


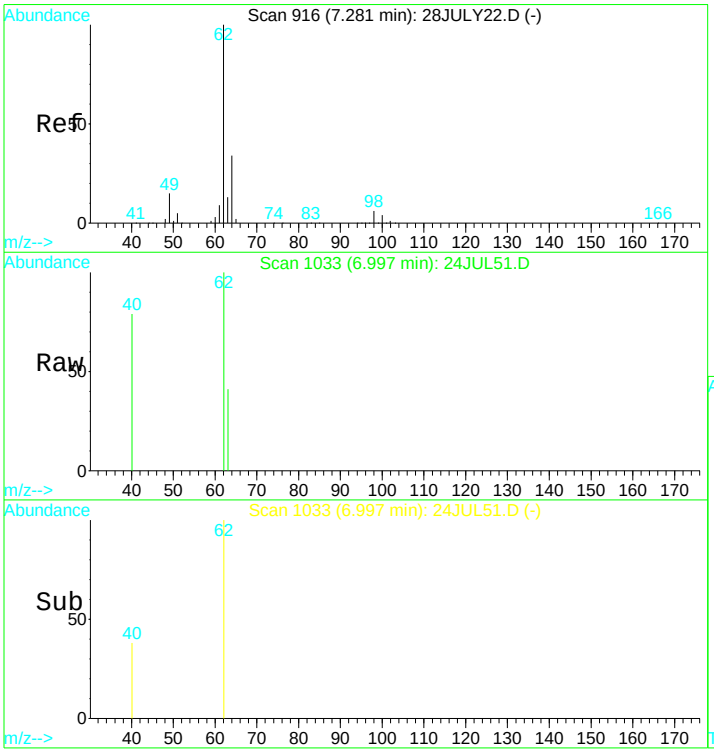


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 65 Resp: 60998

Ion	Ratio	Lower	Upper
65	100		
67	54.5	36.2	67.2
51	67.3	42.0	78.0

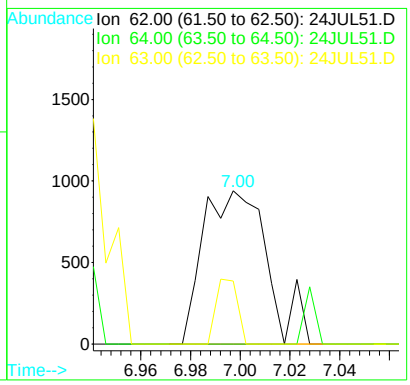


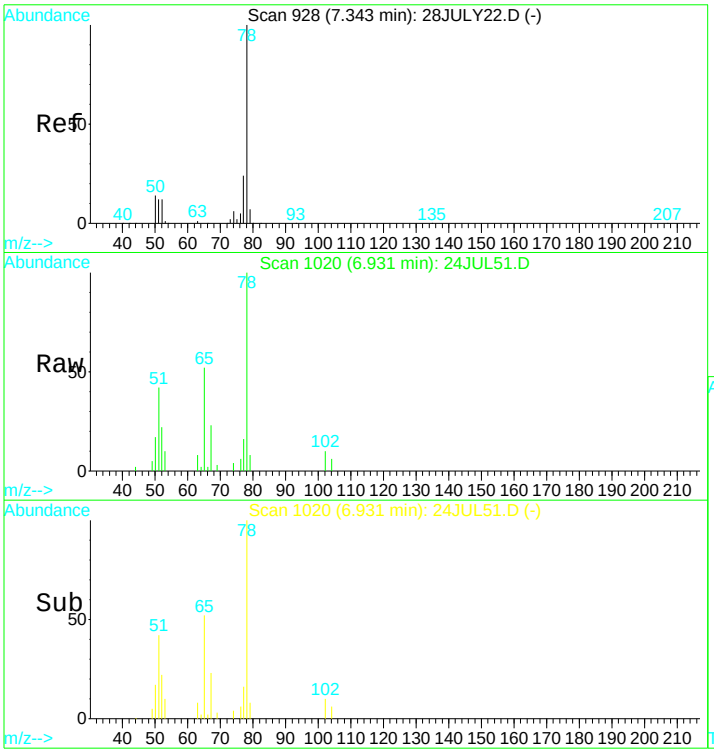


#22
1,2-Dichloroethane
Concen: 0.22 ug/L
RT: 7.00 min Scan# 1033
Delta R.T. -0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 62 Resp: 1681

Ion	Ratio	Lower	Upper
62	100		
64	6.4	18.8	35.0#
63	14.3	5.8	10.8#

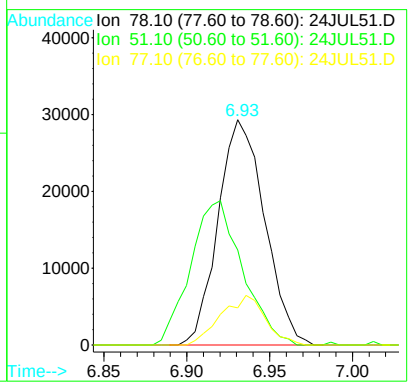


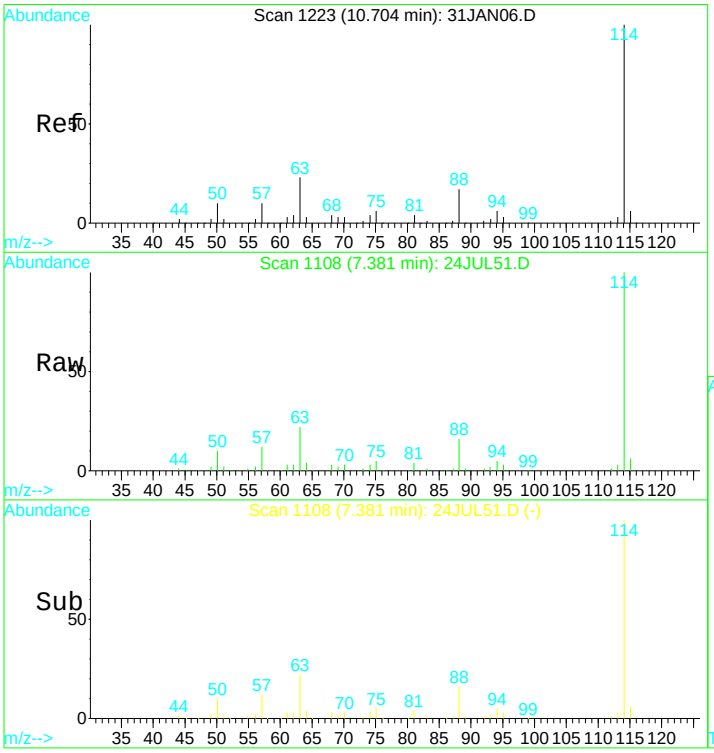


#23
Benzene
Concen: 1.51 ug/L
RT: 6.93 min Scan# 1020
Delta R.T. -0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 78 Resp: 57271

Ion	Ratio	Lower	Upper
78	100		
51	71.6	114.8	213.2#
77	21.1	15.2	28.2

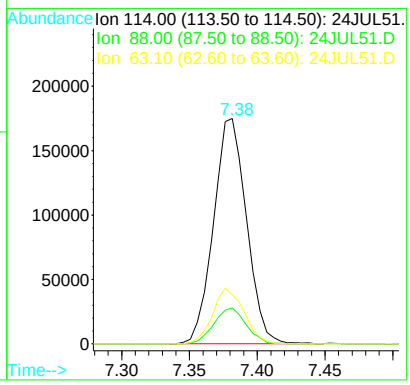


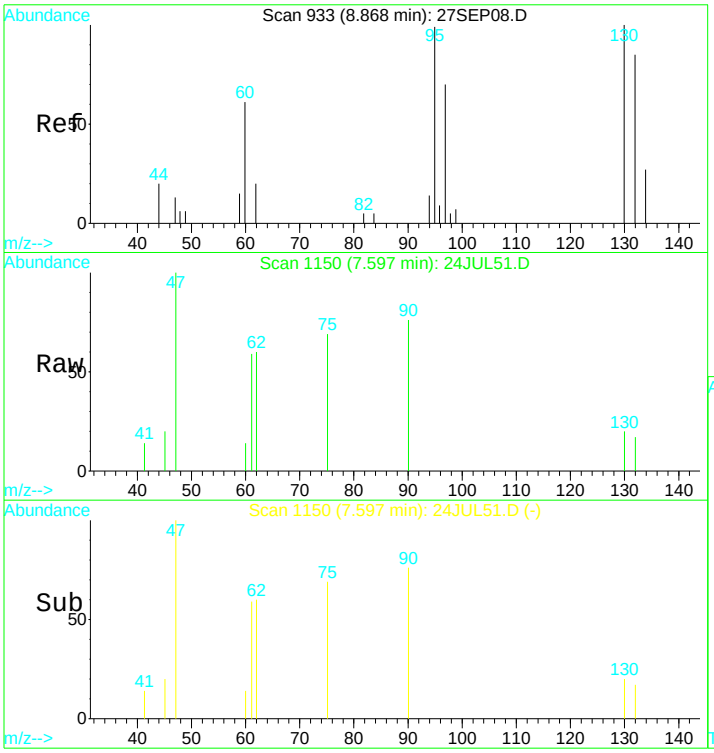


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:114 Resp: 296060

Ion	Ratio	Lower	Upper
114	100		
88	15.6	11.7	21.7
63	23.5	16.7	30.9

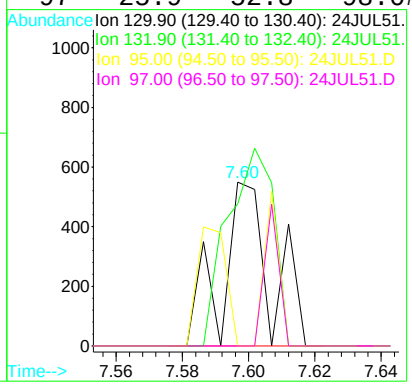


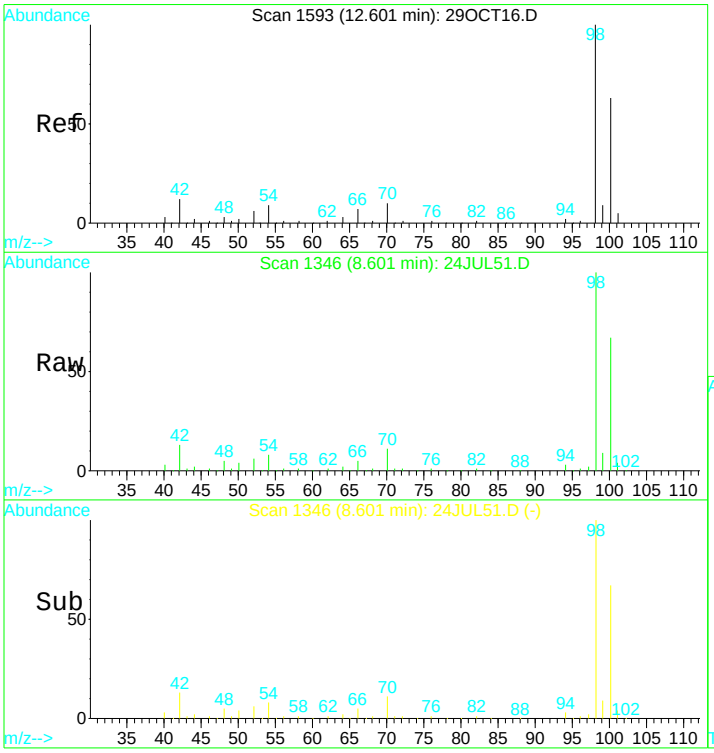


#25
Trichloroethene
Concen: 0.06 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:130 Resp: 564

Ion	Ratio	Lower	Upper
130	100		
132	113.8	66.1	122.7
95	28.4	86.1	159.9#
97	25.9	52.8	98.0#

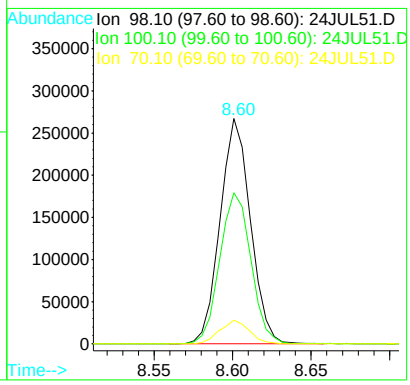


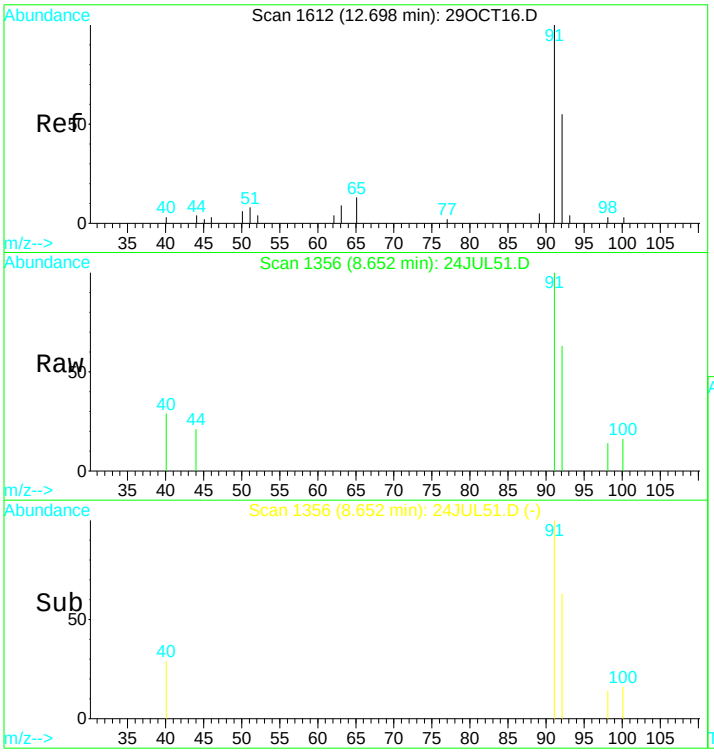


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 98 Resp: 358520

Ion	Ratio	Lower	Upper
98	100		
100	68.8	49.7	92.3
70	10.2	7.3	13.7

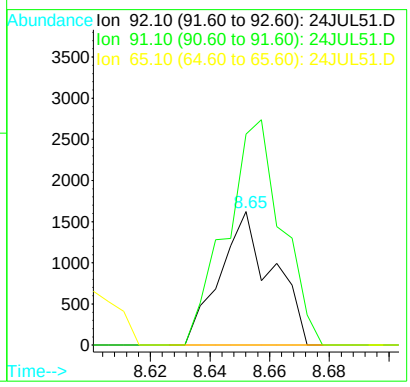


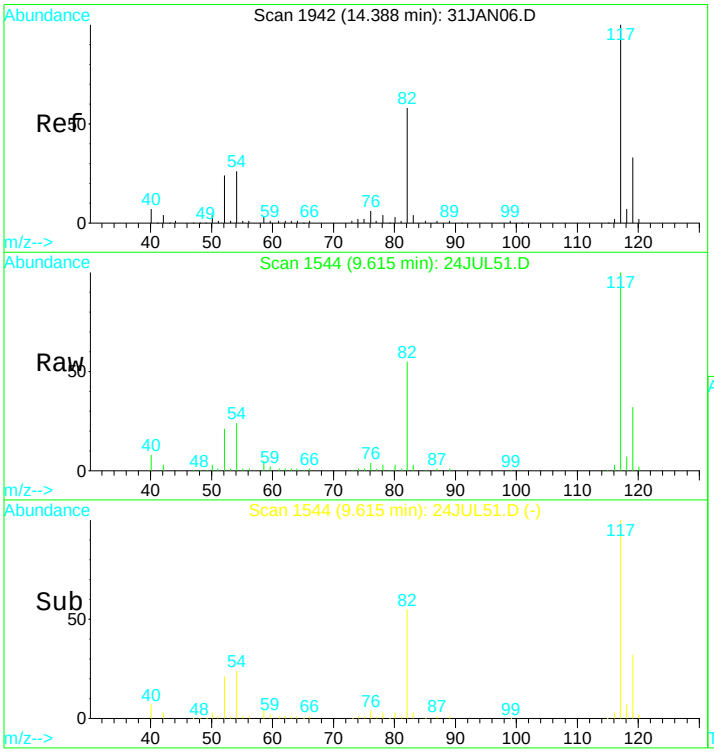


#32
Toluene
Concen: 0.08 ug/L
RT: 8.65 min Scan# 1356
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 92 Resp: 1996

Ion	Ratio	Lower	Upper
92	100		
91	177.2	122.6	227.6
65	34.2	16.5	30.7#

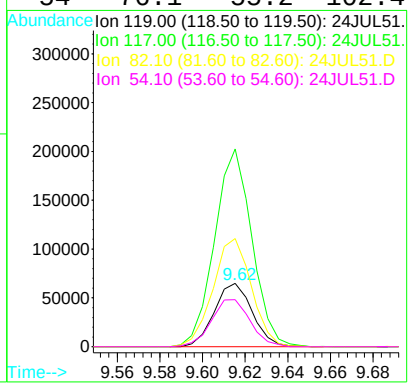


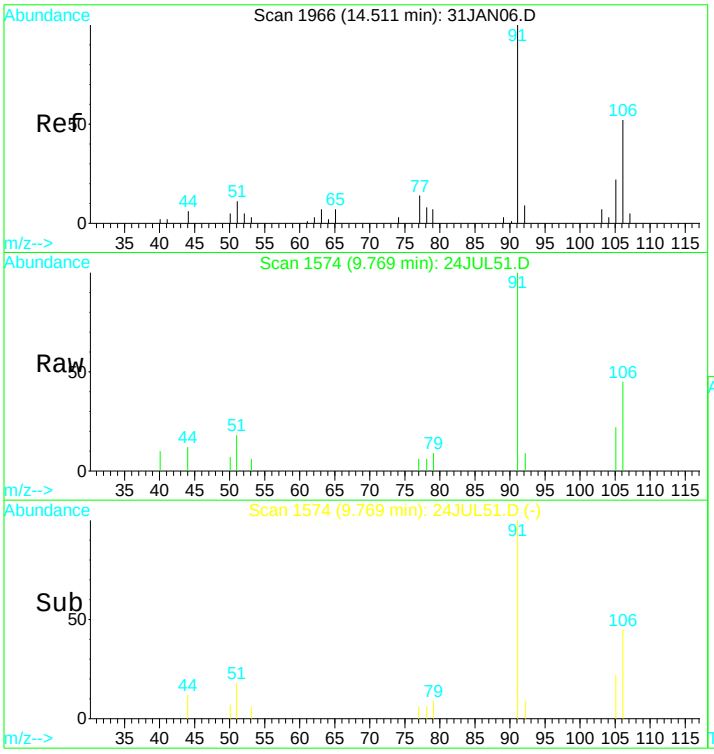


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:119 Resp: 80779

Ion	Ratio	Lower	Upper
119	100		
117	306.2	214.5	398.4
82	172.7	117.7	218.7
54	76.1	55.2	102.4

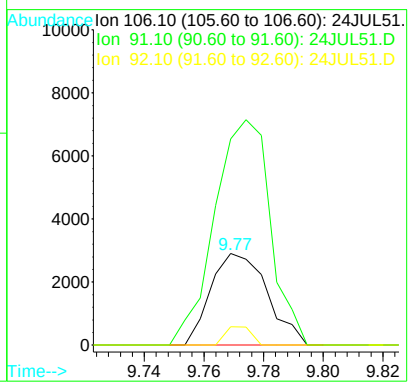


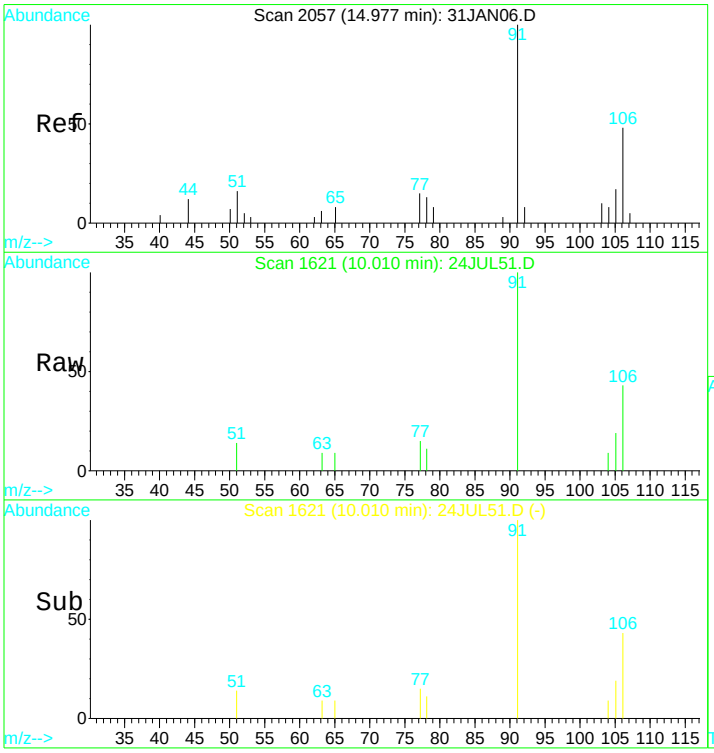


#43
P+m-Xylene
Concen: 0.20 ug/L
RT: 9.77 min Scan# 1574
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:106 Resp: 3827

Ion	Ratio	Lower	Upper
106	100		
91	242.4	135.0	250.6
92	9.3	10.3	19.1#

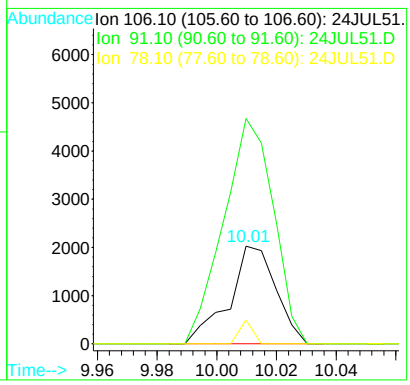


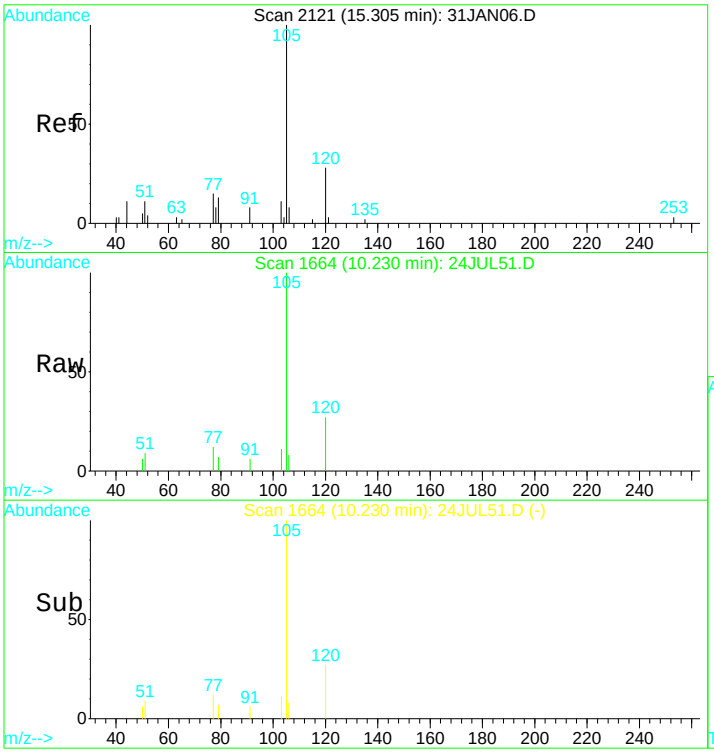


#44
O-Xylene
Concen: 0.12 ug/L
RT: 10.01 min Scan# 1621
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:106 Resp: 2218

Ion	Ratio	Lower	Upper
106	100		
91	244.8	154.3	286.5
78	6.9	47.1	87.5#

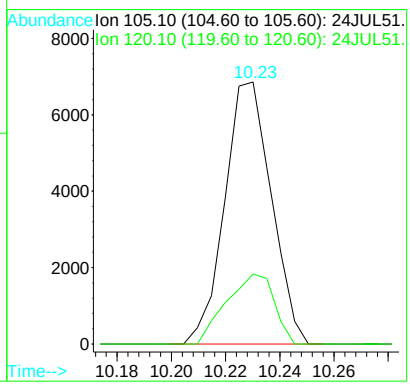


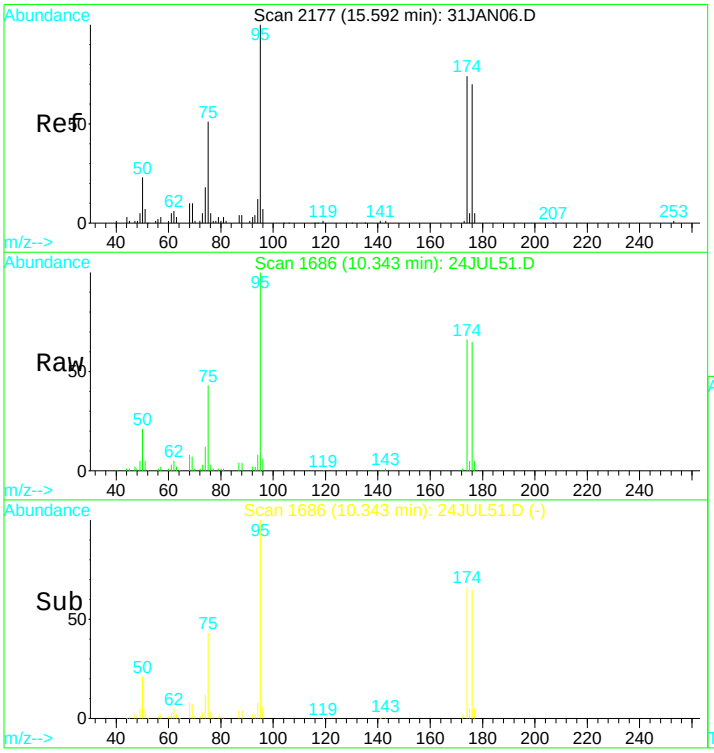


#47
Isopropylbenzene
Concen: 0.18 ug/L
RT: 10.23 min Scan# 1664
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:105 Resp: 8209

Ion	Ratio	Lower	Upper
105	100		
120	27.2	19.2	35.6

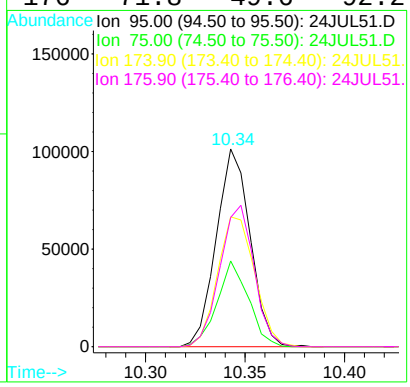




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 95 Resp: 120271

Ion	Ratio	Lower	Upper
95	100		
75	40.0	29.5	54.7
174	72.0	52.3	97.1
176	71.8	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL51.D Vial: 51
Acq On : 24 Jul 2017 11:53 pm Operator: MGC
Sample : 1720018-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:23 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185680	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	296060	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	80779	10.00	ug/L	0.00

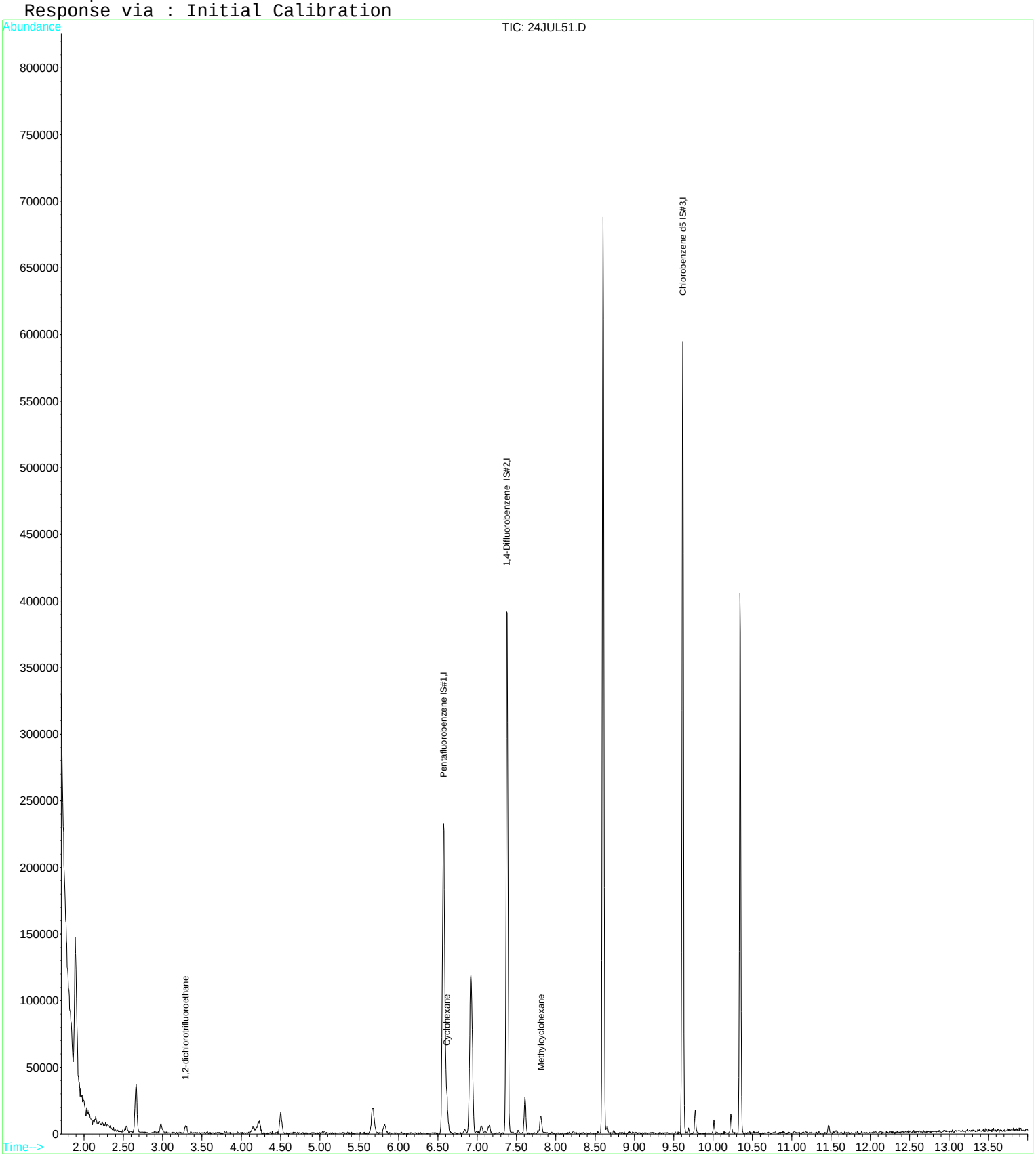
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.29	67	4151	0.34	ug/L #	34
27) Cyclohexane	6.62	56	18699	0.77	ug/L #	83
31) Methylcyclohexane	7.81	55	5252	0.29	ug/L	89

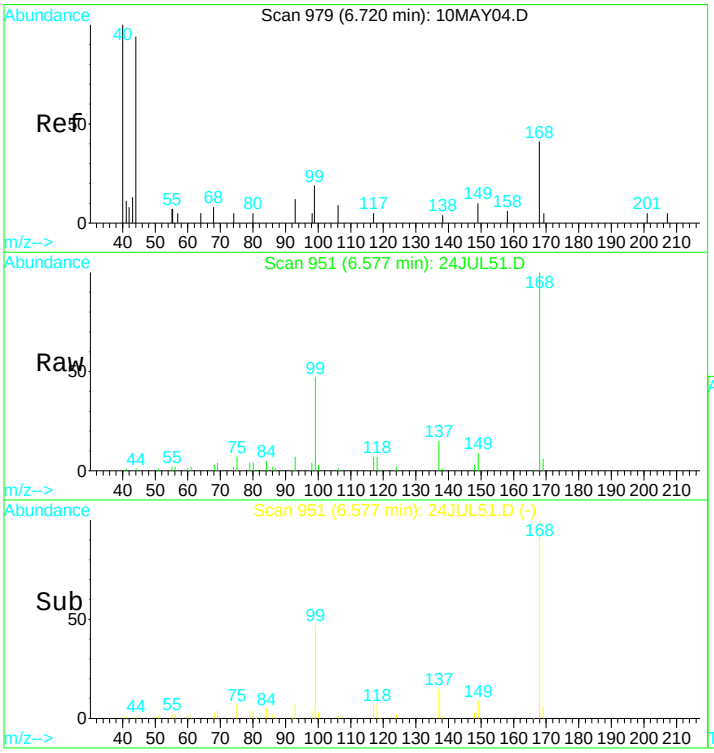
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL51.D Vial: 51
Acq On : 24 Jul 2017 11:53 pm Operator: MGC
Sample : 1720018-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:23 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration

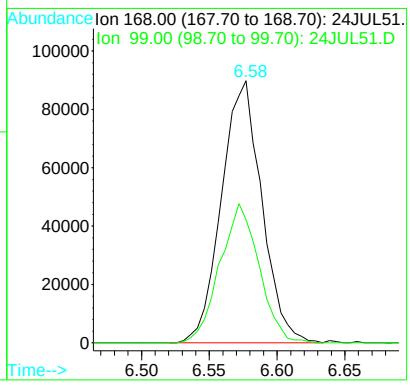


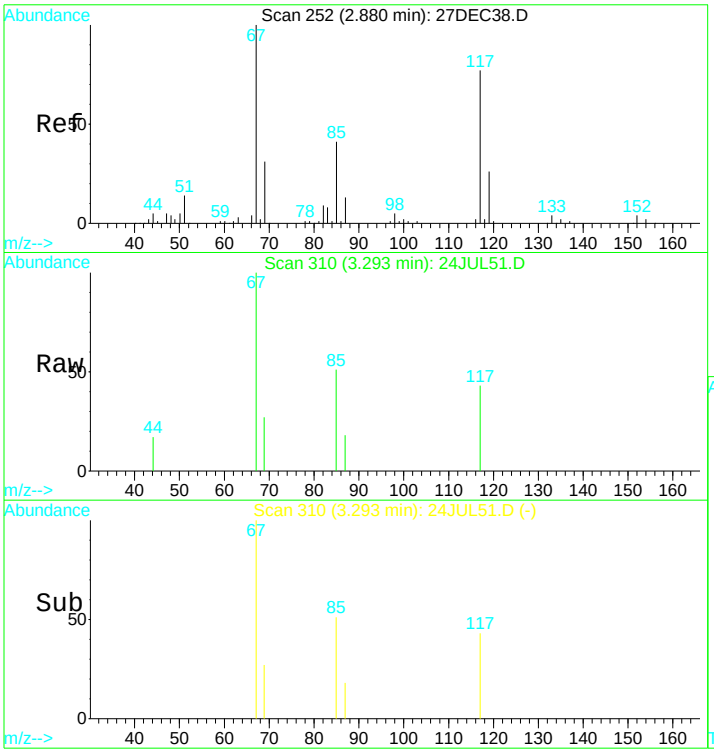


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:168 Resp: 185680

Ion	Ratio	Lower	Upper
168	100		
99	51.5	36.1	67.1

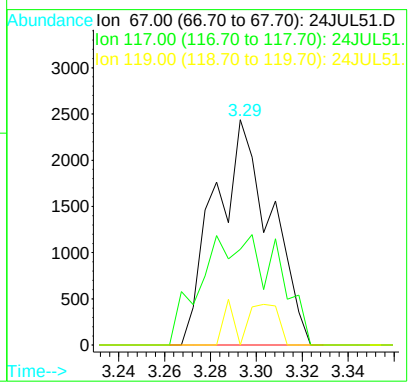


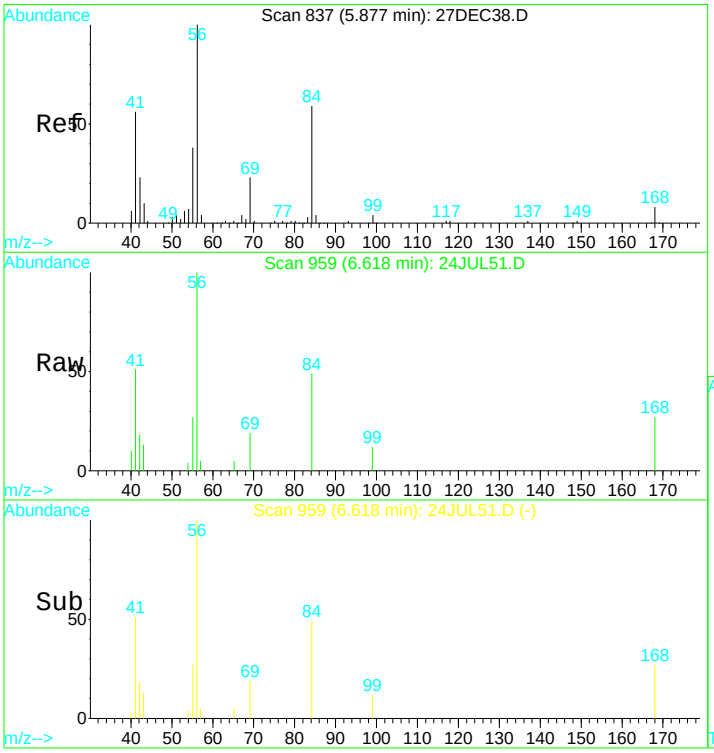


#4
1,2-dichlorotrifluoroethane
Concen: 0.34 ug/L
RT: 3.29 min Scan# 310
Delta R.T. -0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 67 Resp: 4151

Ion	Ratio	Lower	Upper
67	100		
117	0.0	36.7	68.1#
119	3.7	5.9	10.9#

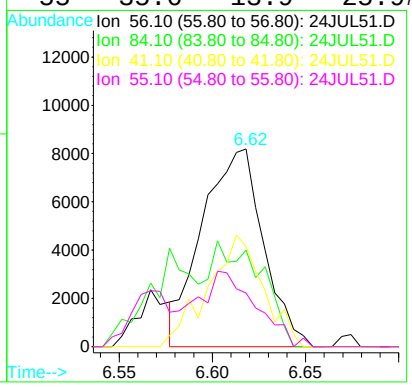


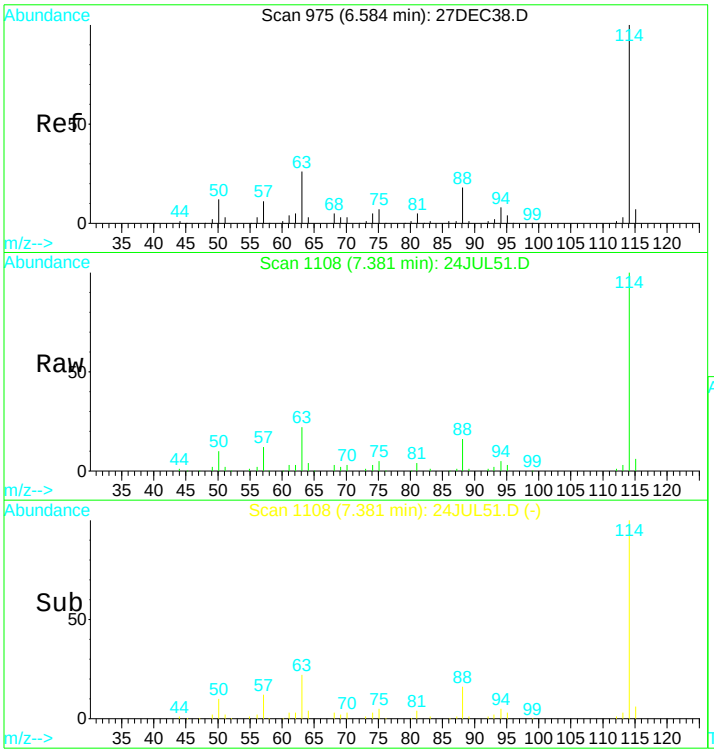


#27
Cyclohexane
Concen: 0.77 ug/L
RT: 6.62 min Scan# 959
Delta R.T. 0.01 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 56 Resp: 18699

Ion	Ratio	Lower	Upper
56	100		
84	44.9	29.5	54.7
41	50.8	26.4	49.0#
55	35.6	13.9	25.9#

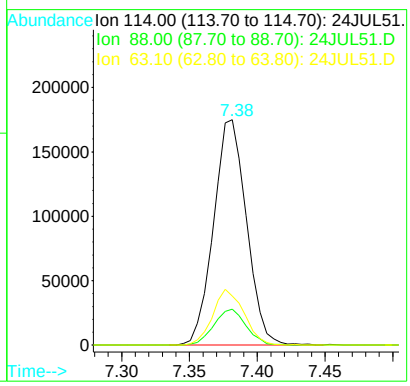


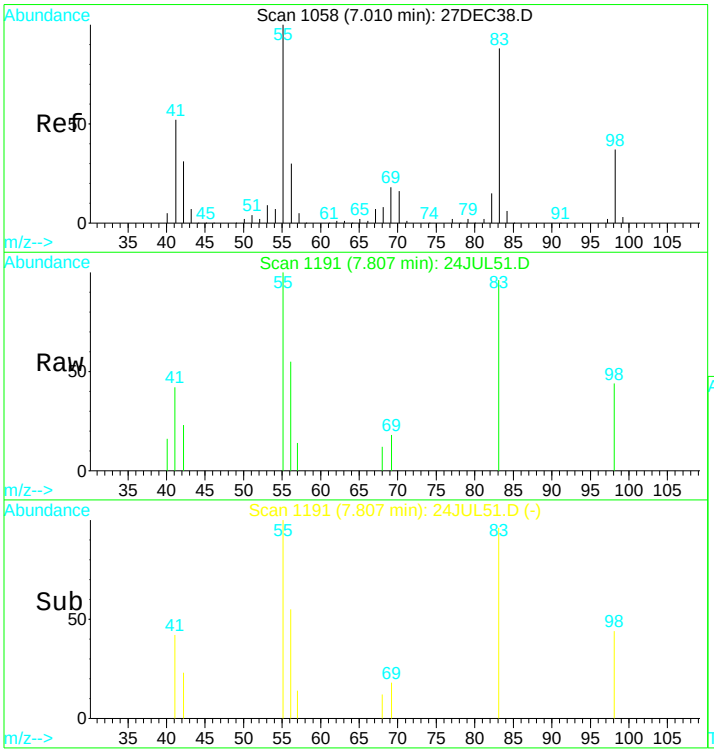


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:114 Resp: 296060

Ion	Ratio	Lower	Upper
114	100		
88	15.6	11.1	20.7
63	23.5	16.4	30.4

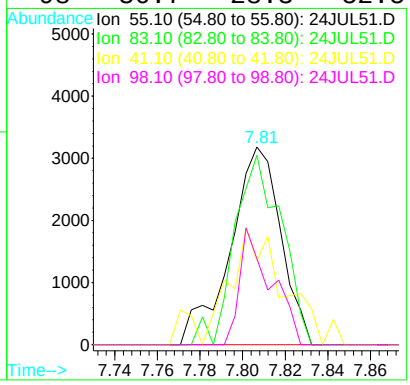


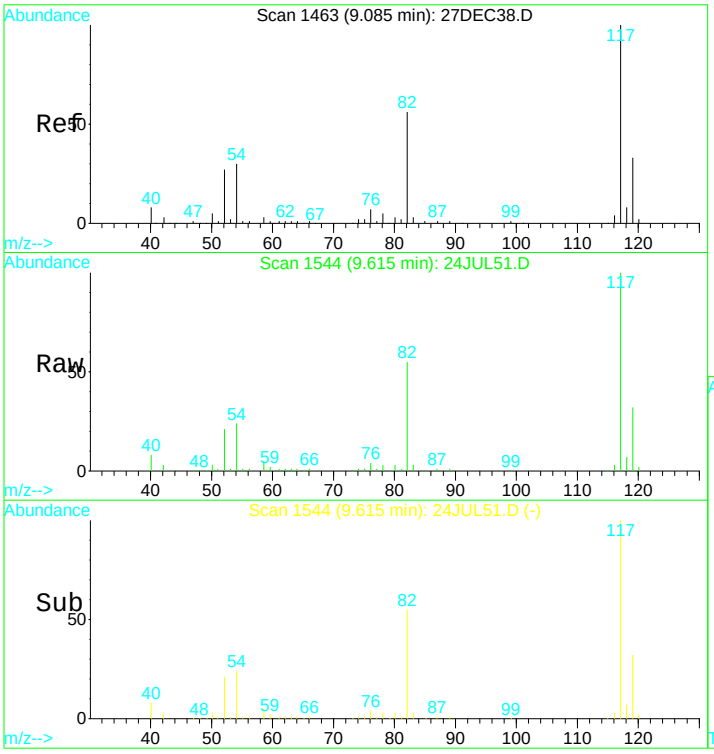


#31
Methylcyclohexane
Concen: 0.29 ug/L
RT: 7.81 min Scan# 1191
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion: 55 Resp: 5252

Ion	Ratio	Lower	Upper
55	100		
83	88.9	56.7	105.3
41	63.1	34.9	64.9
98	36.7	28.3	52.5

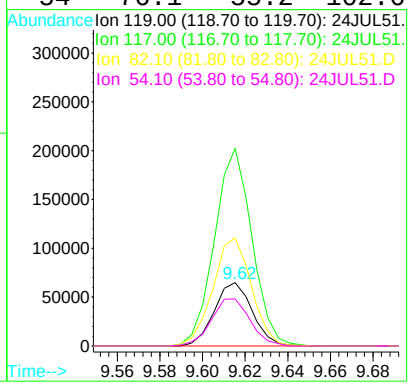




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL51.D
Acq: 24 Jul 2017 11:53 pm

Tgt Ion:119 Resp: 80779

Ion	Ratio	Lower	Upper
119	100		
117	306.2	217.1	403.3
82	172.7	122.7	227.9
54	76.1	55.2	102.6



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL52.D Vial: 52
Acq On : 25 Jul 2017 12:16 am Operator: MGC
Sample : 1720018-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	182723	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	276152	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74781	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50715	9.50	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 95.00%						
31) Toluene d8 SMC#2	8.60	98	338962	9.94	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.40%						
49) Bromofluorobenzene SMC#3	10.35	95	106439	9.53	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 95.30%						

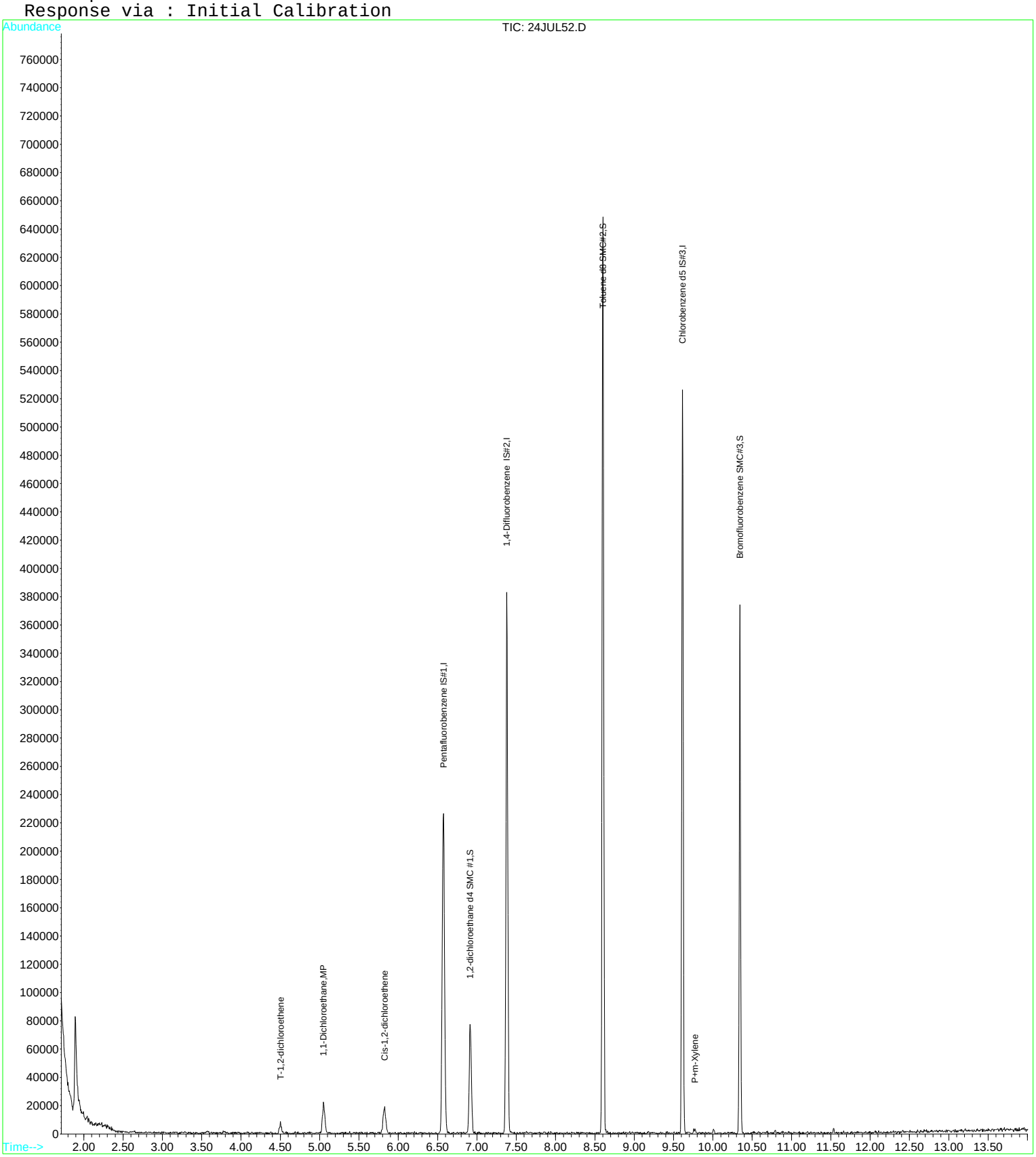
Target Compounds						Qvalue
12) T-1,2-dichloroethene	4.51	96	2754	0.30	ug/L	92
13) 1,1-Dichloroethane	5.05	63	26667	1.36	ug/L	98
15) Cis-1,2-dichloroethene	5.82	96	10534	1.10	ug/L	84
43) P+m-Xylene	9.77	106	1024	0.06	ug/L #	73

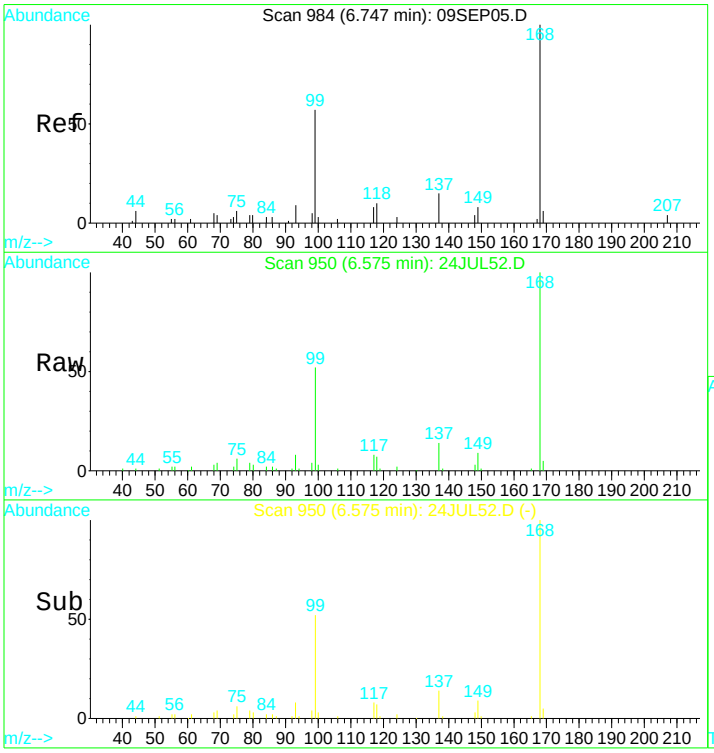
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL52.D Vial: 52
Acq On : 25 Jul 2017 12:16 am Operator: MGC
Sample : 1720018-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:49 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

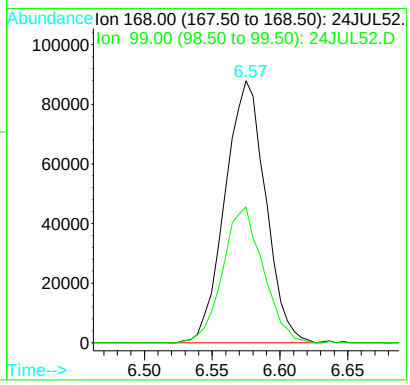


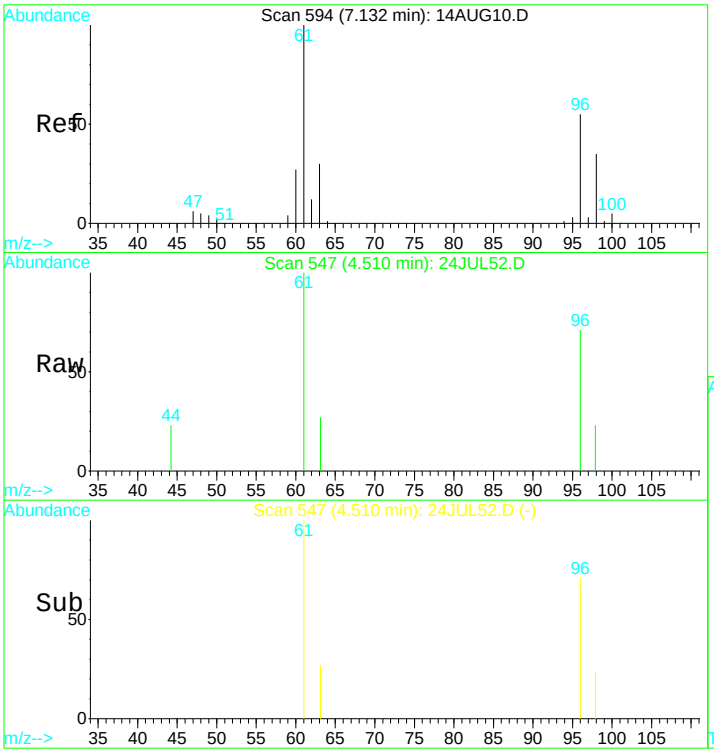


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion:168 Resp: 182723

Ion	Ratio	Lower	Upper
168	100		
99	51.6	38.7	71.9

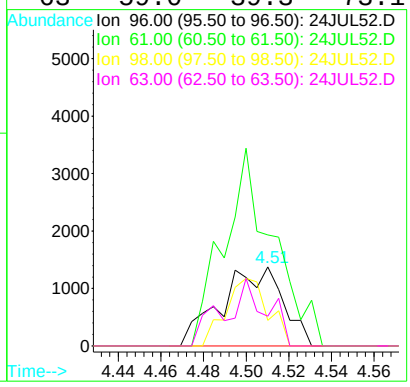


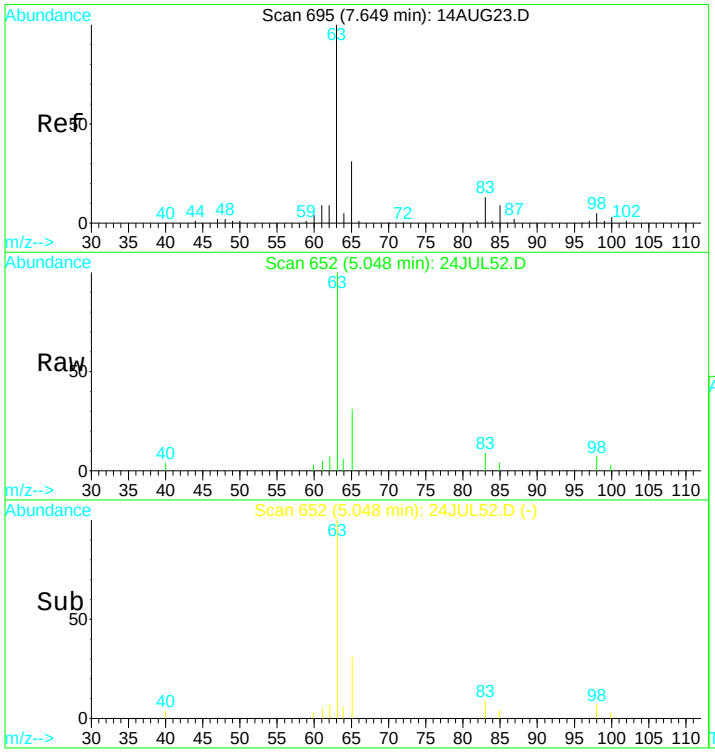


#12
T-1,2-dichloroethene
Concen: 0.30 ug/L
RT: 4.51 min Scan# 547
Delta R.T. 0.01 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion: 96 Resp: 2754

Ion	Ratio	Lower	Upper
96	100		
61	201.1	129.4	240.4
98	58.8	41.5	77.1
63	59.0	39.3	73.1

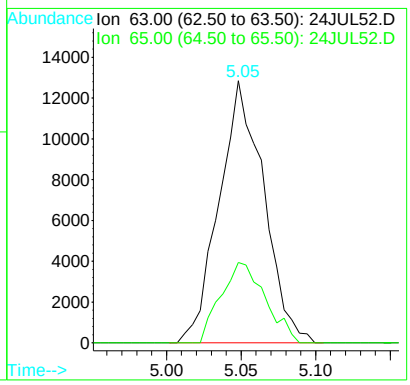


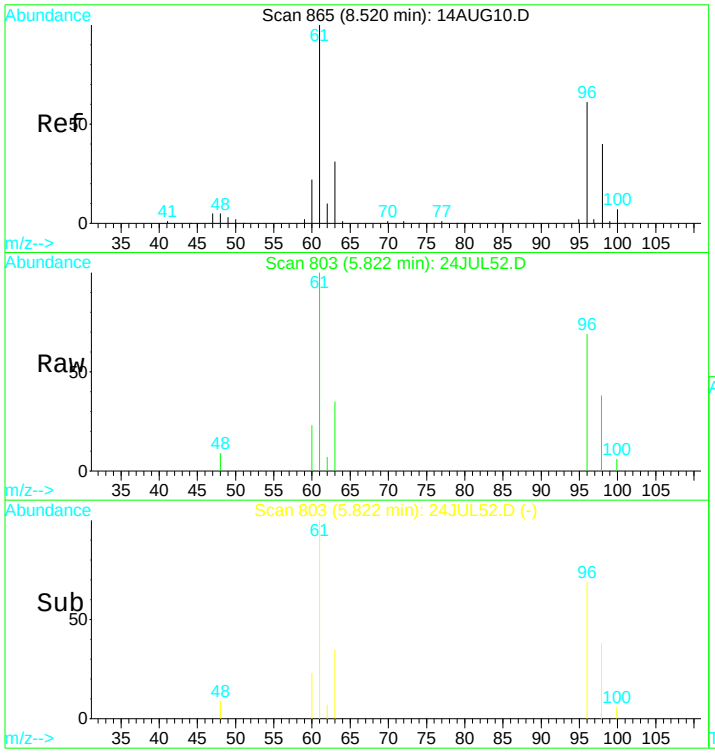


#13
1,1-Dichloroethane
Concen: 1.36 ug/L
RT: 5.05 min Scan# 652
Delta R.T. -0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion: 63 Resp: 26667

Ion	Ratio	Lower	Upper
63	100		
65	30.6	20.8	38.6

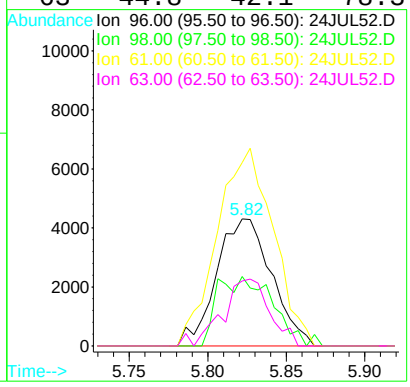


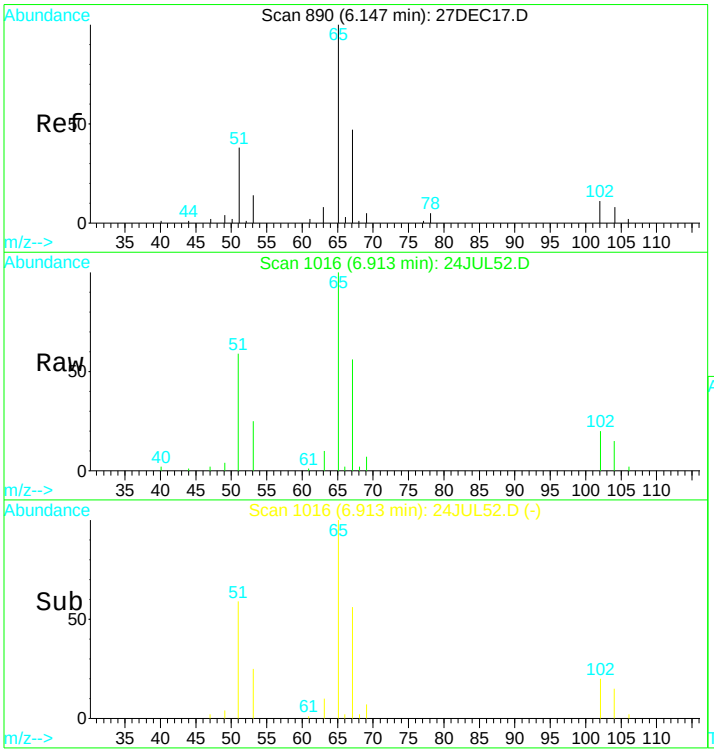


#15
Cis-1,2-dichloroethene
Concen: 1.10 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion: 96 Resp: 10534

Ion	Ratio	Lower	Upper
96	100		
98	55.1	51.9	96.3
61	157.7	122.8	228.0
63	44.8	42.1	78.3

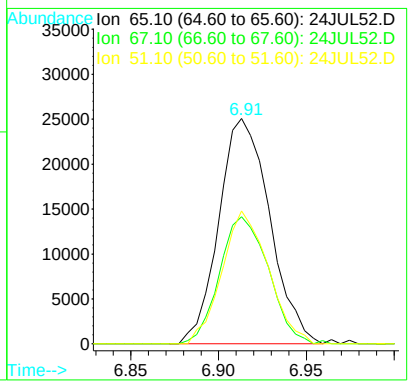


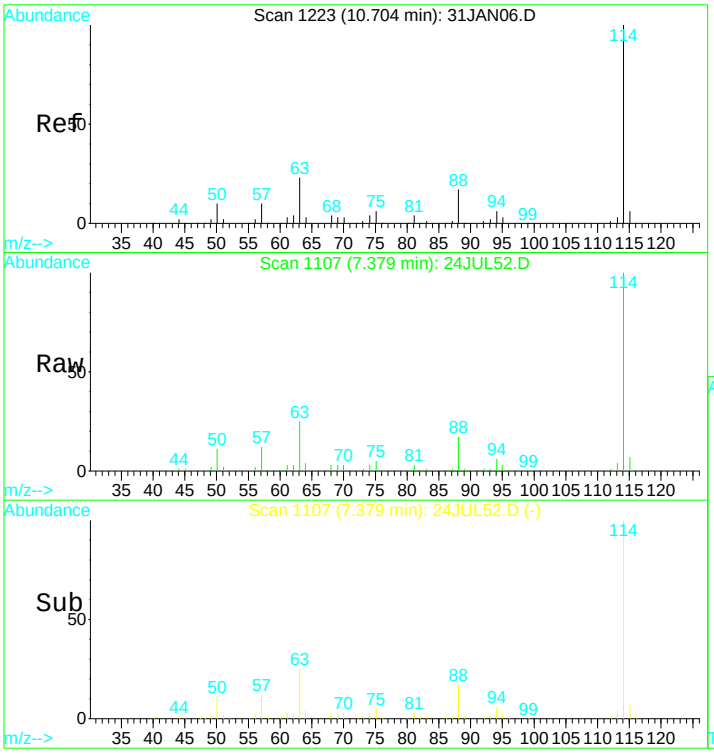


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion: 65 Resp: 50715

Ion	Ratio	Lower	Upper
65	100		
67	54.1	36.2	67.2
51	53.7	42.0	78.0

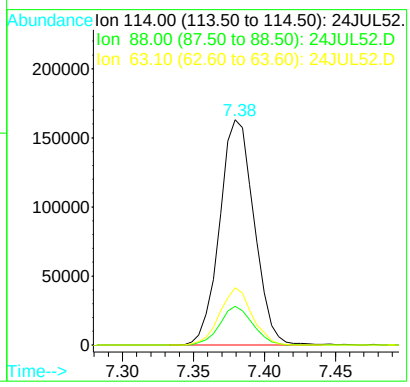


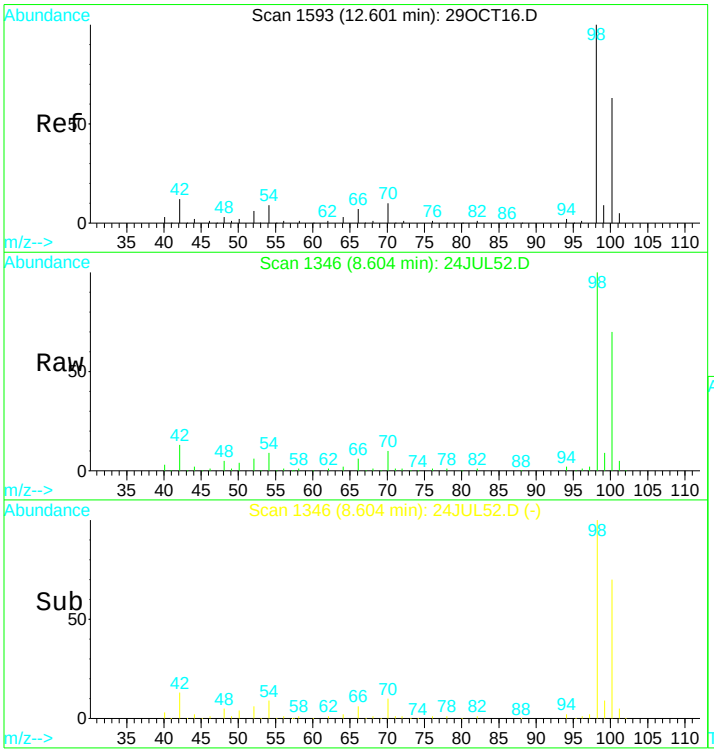


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion:114 Resp: 276152

Ion	Ratio	Lower	Upper
114	100		
88	16.5	11.7	21.7
63	23.8	16.7	30.9

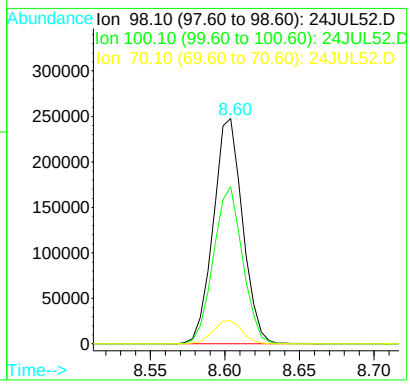


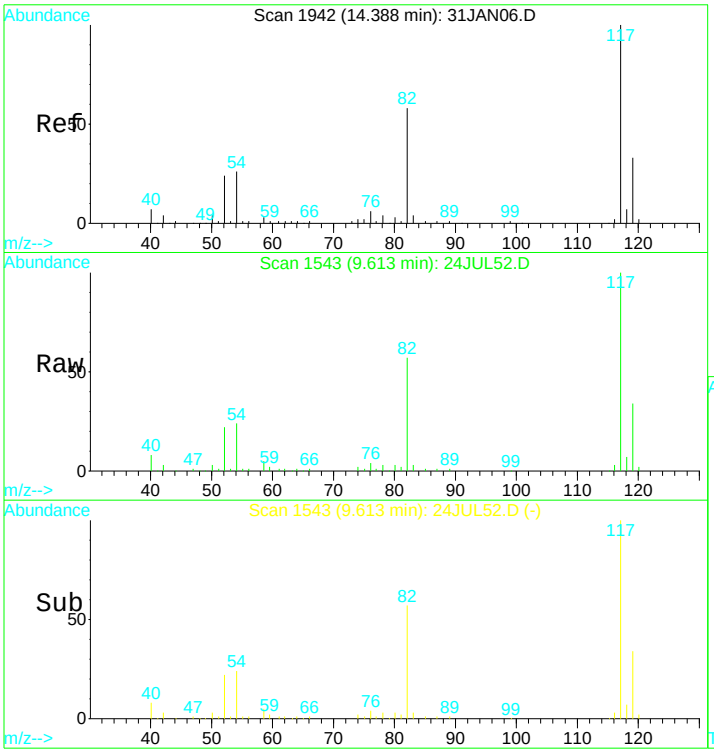


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion: 98 Resp: 338962

Ion	Ratio	Lower	Upper
98	100		
100	69.2	49.7	92.3
70	10.2	7.3	13.7

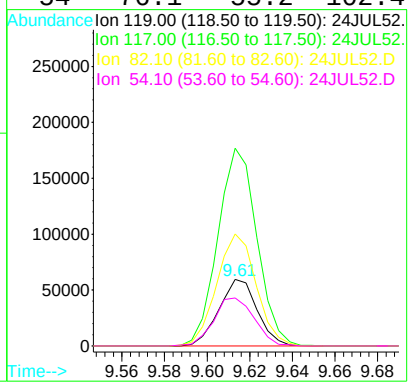


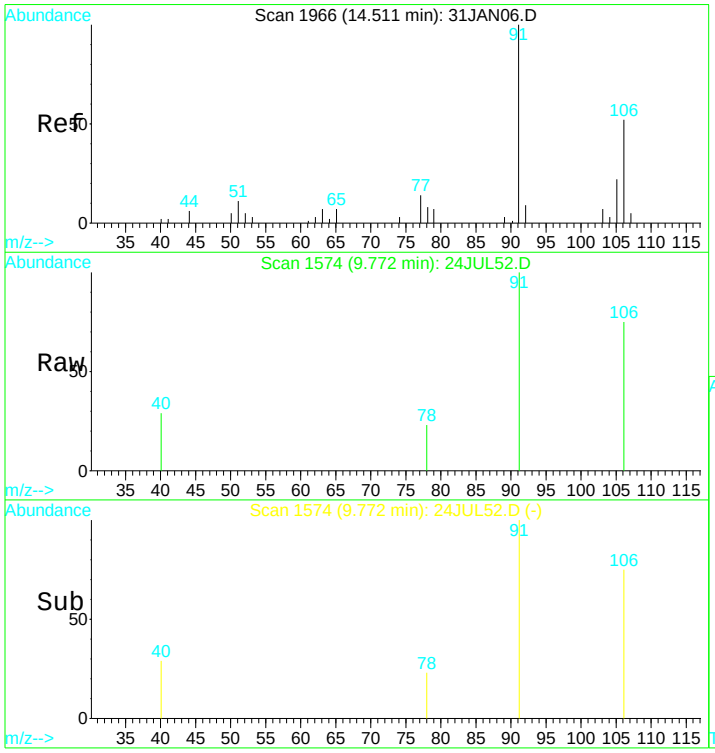


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion:119 Resp: 74781

Ion	Ratio	Lower	Upper
119	100		
117	301.4	214.5	398.4
82	172.2	117.7	218.7
54	76.1	55.2	102.4

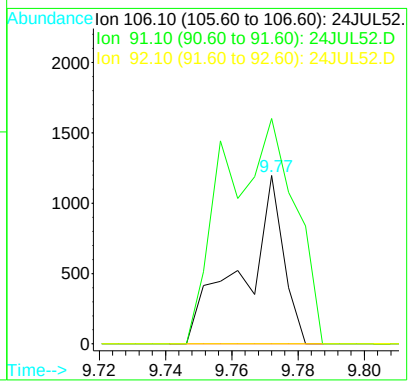


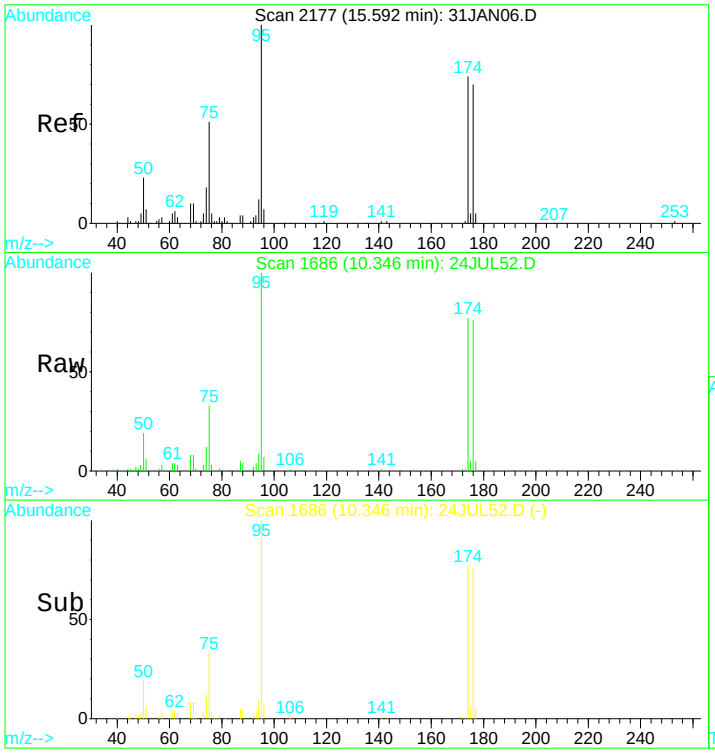


#43
P+m-Xylene
Concen: 0.06 ug/L
RT: 9.77 min Scan# 1574
Delta R.T. 0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion:106 Resp: 1024

Ion	Ratio	Lower	Upper
106	100		
91	231.2	135.0	250.6
92	0.0	10.3	19.1#

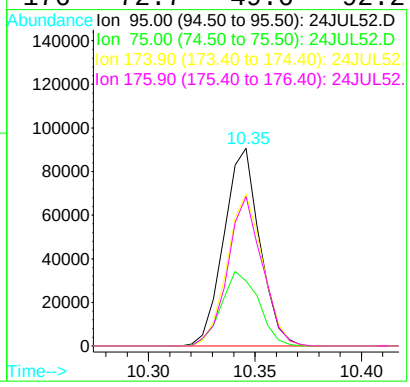




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL52.D
Acq: 25 Jul 2017 12:16 am

Tgt Ion: 95 Resp: 106439

Ion	Ratio	Lower	Upper
95	100		
75	38.9	29.5	54.7
174	76.4	52.3	97.1
176	72.7	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL52.D Vial: 52
Acq On : 25 Jul 2017 12:16 am Operator: MGC
Sample : 1720018-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:50 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	182723	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	276152	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74781	10.00	ug/L	0.00

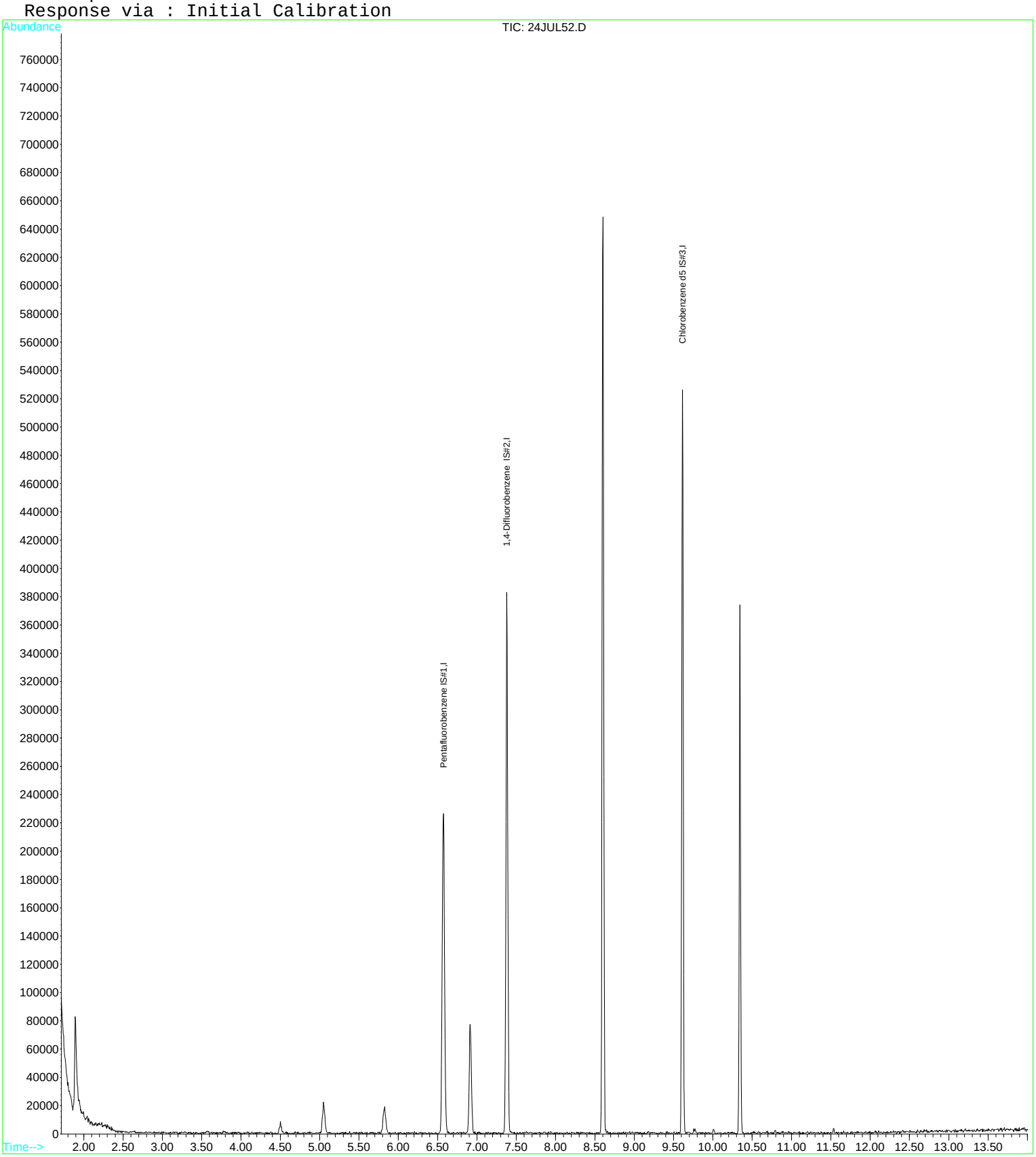
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL52.D Vial: 52
Acq On : 25 Jul 2017 12:16 am Operator: MGC
Sample : 1720018-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 13:50 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL53.D Vial: 53
Acq On : 25 Jul 2017 12:39 am Operator: MGC
Sample : 1720018-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:03 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	184363	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	271606	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	72214	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	53097	9.86	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.60%			
31) Toluene d8 SMC#2	8.60	98	342607	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.10%			
49) Bromofluorobenzene SMC#3	10.34	95	107974	10.01	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.10%			

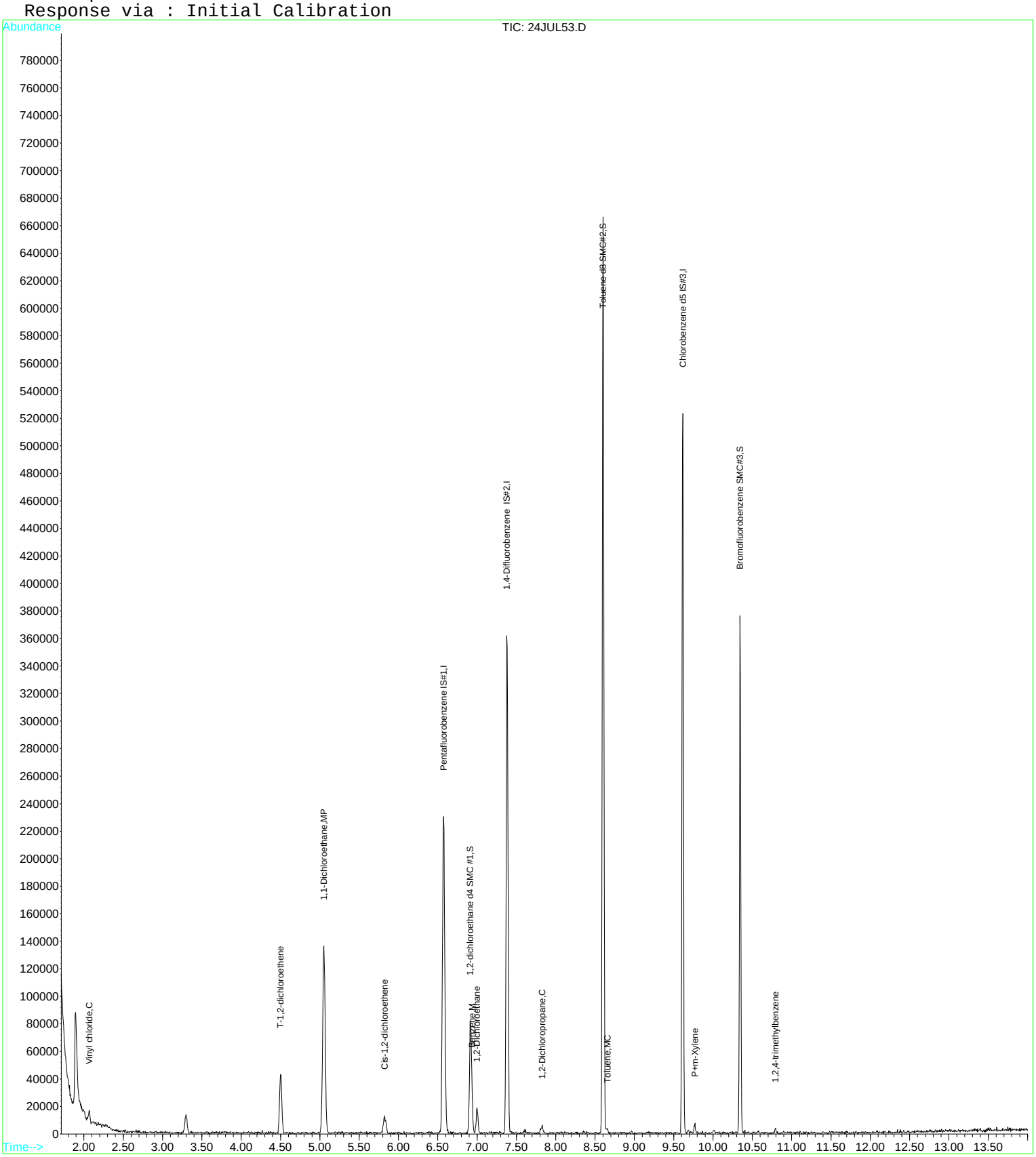
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	5604	0.41	ug/L #	1
12) T-1,2-dichloroethene	4.50	96	18069	1.96	ug/L	95
13) 1,1-Dichloroethane	5.05	63	168854	8.56	ug/L	98
15) Cis-1,2-dichloroethene	5.82	96	7215	0.75	ug/L	80
22) 1,2-Dichloroethane	7.00	62	13986	1.86	ug/L #	92
23) Benzene	6.94	78	9565	0.25	ug/L #	2
26) 1,2-Dichloropropane	7.83	63	2626	0.25	ug/L #	81
32) Toluene	8.66	92	1622	0.07	ug/L #	62
43) P+m-Xylene	9.77	106	2186	0.13	ug/L #	92
57) 1,2,4-trimethylbenzene	10.79	105	2034	0.06	ug/L	89

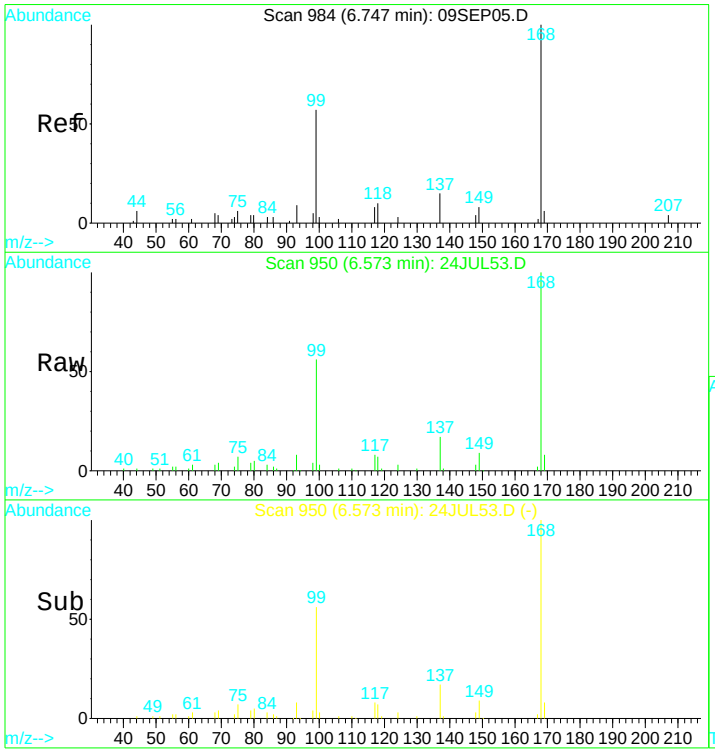
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL53.D Vial: 53
Acq On : 25 Jul 2017 12:39 am Operator: MGC
Sample : 1720018-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:03 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

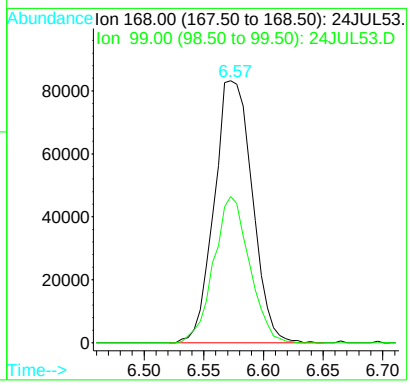


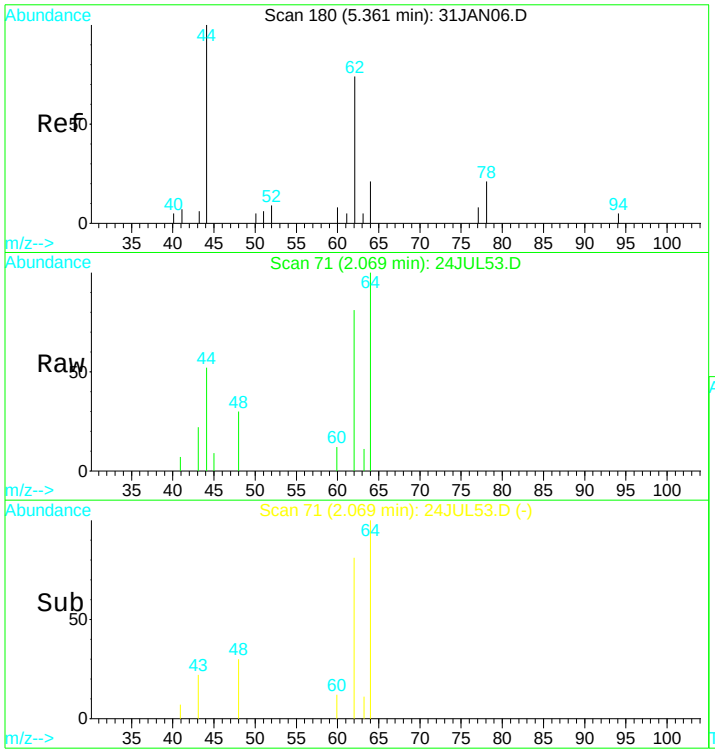


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion:168 Resp: 184363

Ion	Ratio	Lower	Upper
168	100		
99	52.4	38.7	71.9

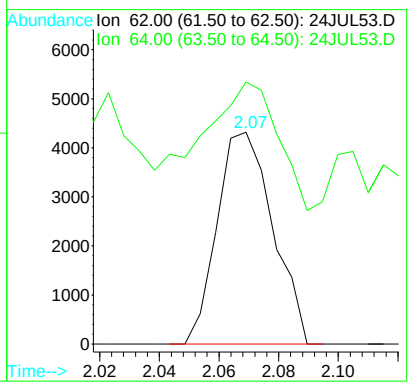


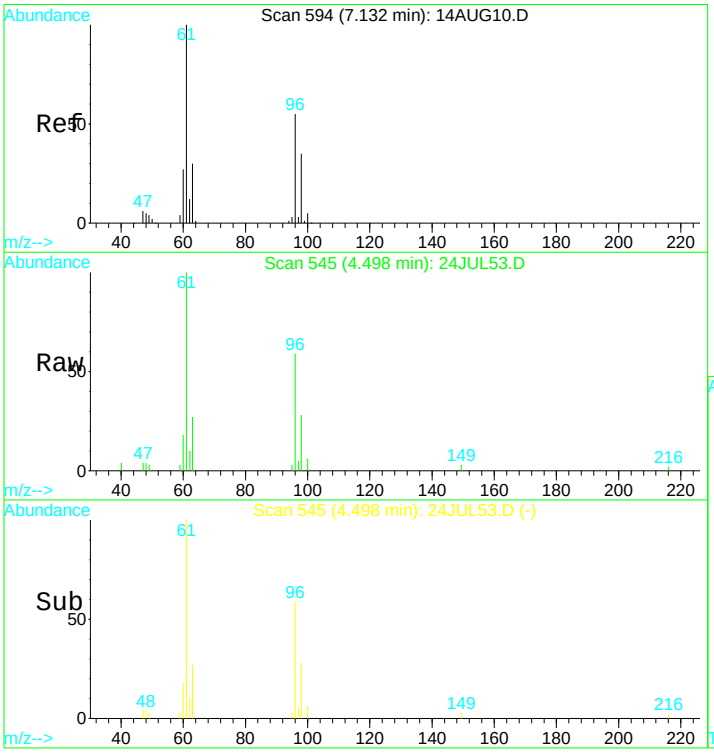


#4
Vinyl chloride
Concen: 0.41 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 62 Resp: 5604

Ion	Ratio	Lower	Upper
62	100		
64	141.6	39.3	72.9#

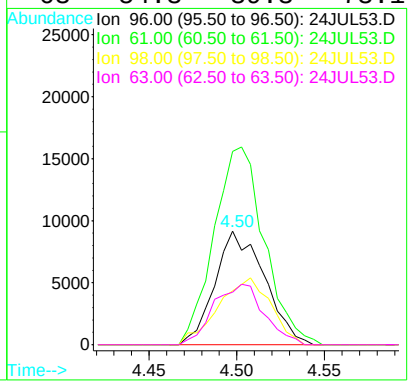


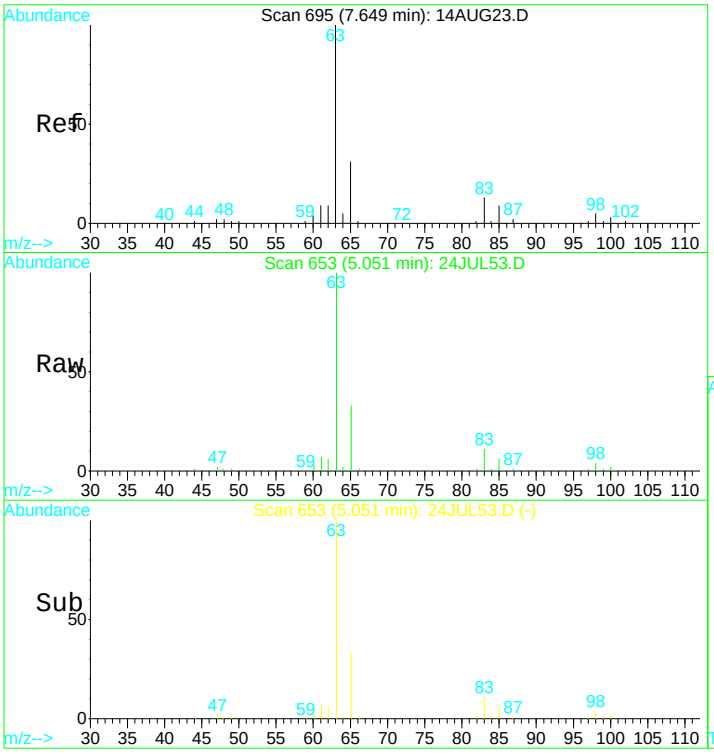


#12
T-1,2-dichloroethene
Concen: 1.96 ug/L
RT: 4.50 min Scan# 545
Delta R.T. -0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 96 Resp: 18069

Ion	Ratio	Lower	Upper
96	100		
61	176.0	129.4	240.4
98	62.2	41.5	77.1
63	54.3	39.3	73.1

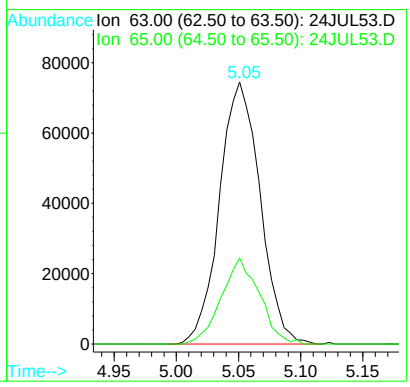


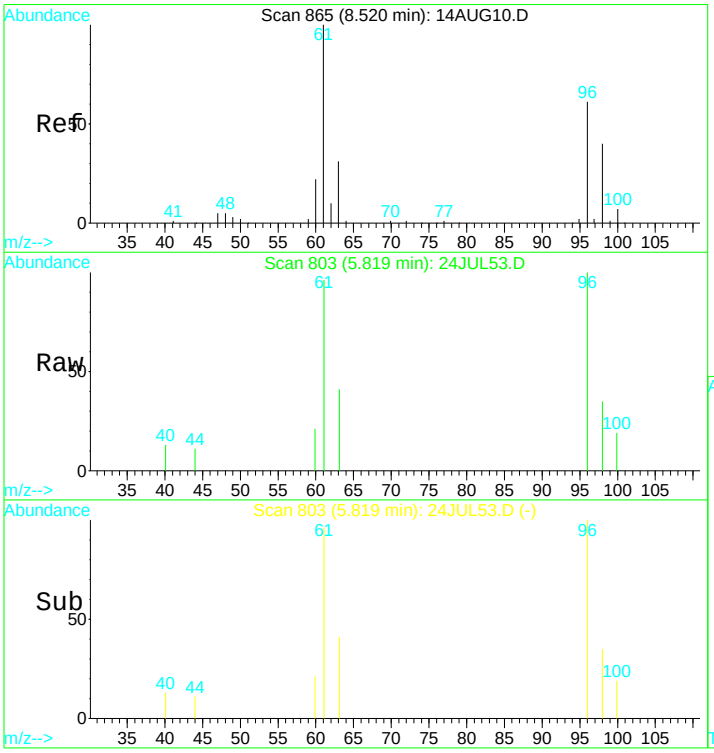


#13
1,1-Dichloroethane
Concen: 8.56 ug/L
RT: 5.05 min Scan# 653
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 63 Resp: 168854

Ion	Ratio	Lower	Upper
63	100		
65	30.9	20.8	38.6

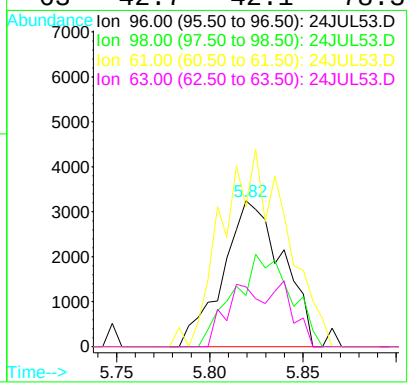


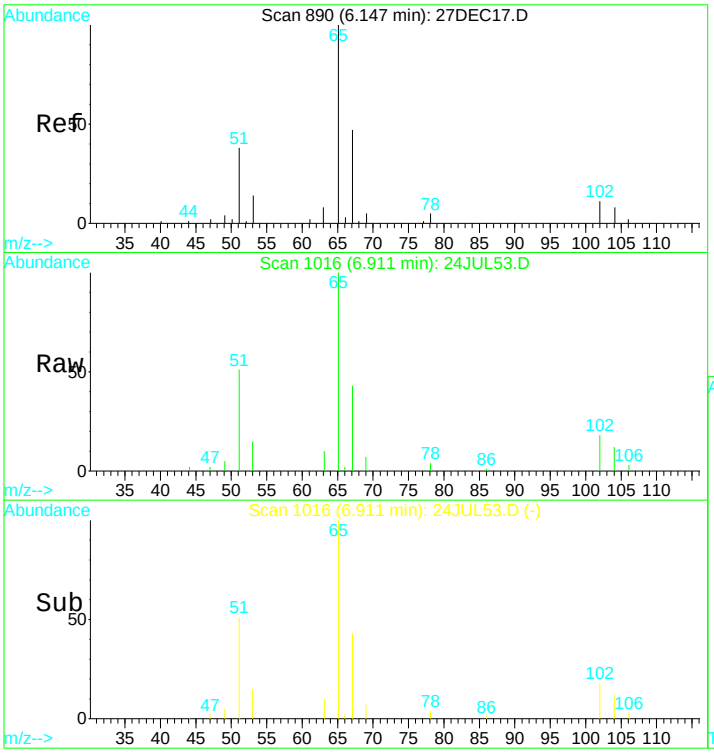


#15
Cis-1,2-dichloroethene
Concen: 0.75 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 96 Resp: 7215

Ion	Ratio	Lower	Upper
96	100		
98	60.4	51.9	96.3
61	145.7	122.8	228.0
63	42.7	42.1	78.3

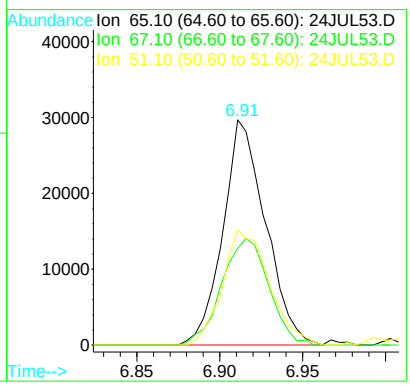


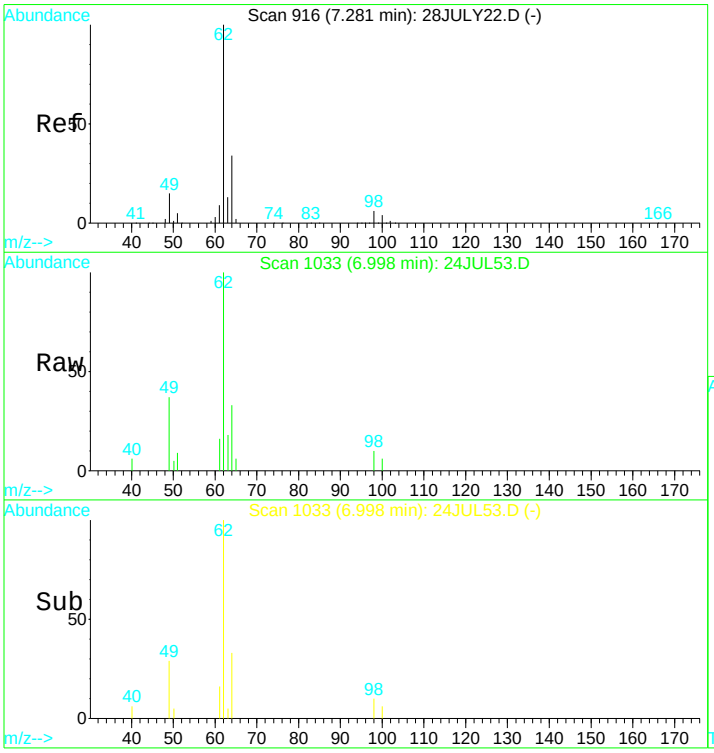


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 65 Resp: 53097

Ion	Ratio	Lower	Upper
65	100		
67	52.3	36.2	67.2
51	56.0	42.0	78.0

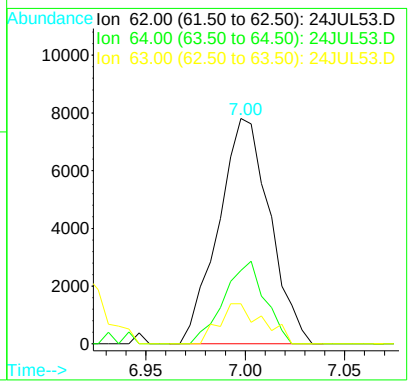


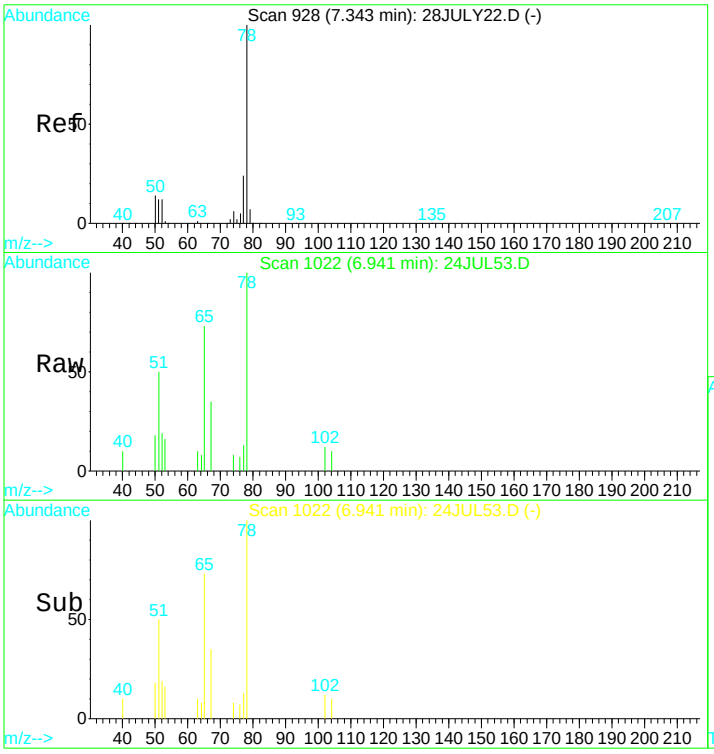


#22
1,2-Dichloroethane
Concen: 1.86 ug/L
RT: 7.00 min Scan# 1033
Delta R.T. -0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 62 Resp: 13986

Ion	Ratio	Lower	Upper
62	100		
64	29.3	18.8	35.0
63	15.3	5.8	10.8#

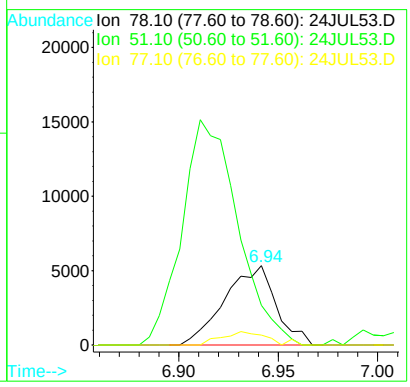


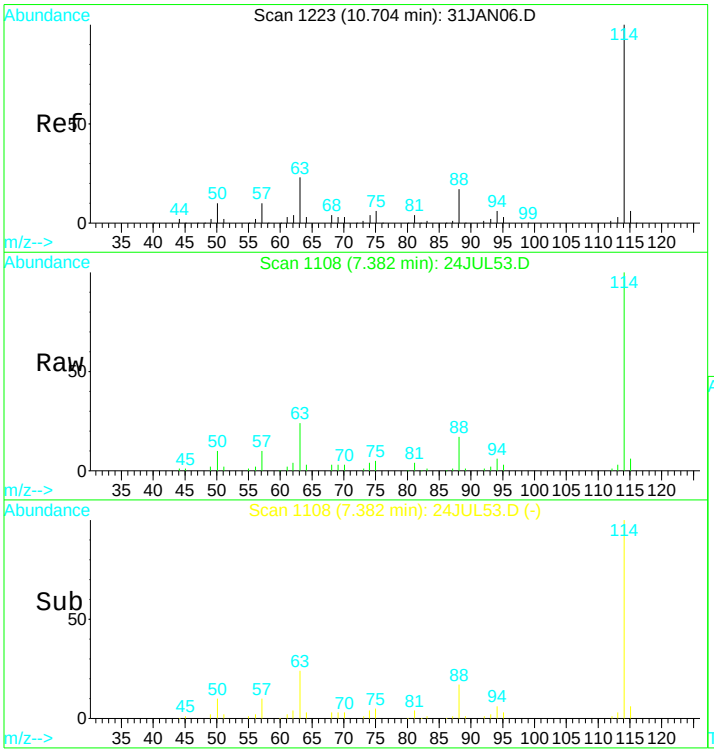


#23
Benzene
Concen: 0.25 ug/L
RT: 6.94 min Scan# 1022
Delta R.T. 0.01 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 78 Resp: 9565

Ion	Ratio	Lower	Upper
78	100		
51	310.8	114.8	213.2#
77	15.3	15.2	28.2

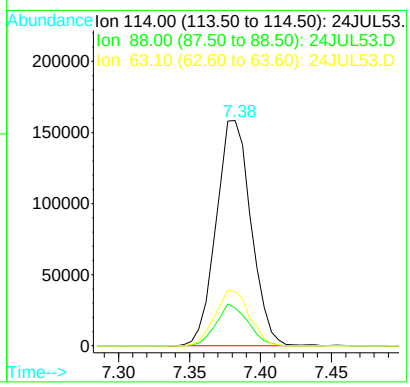


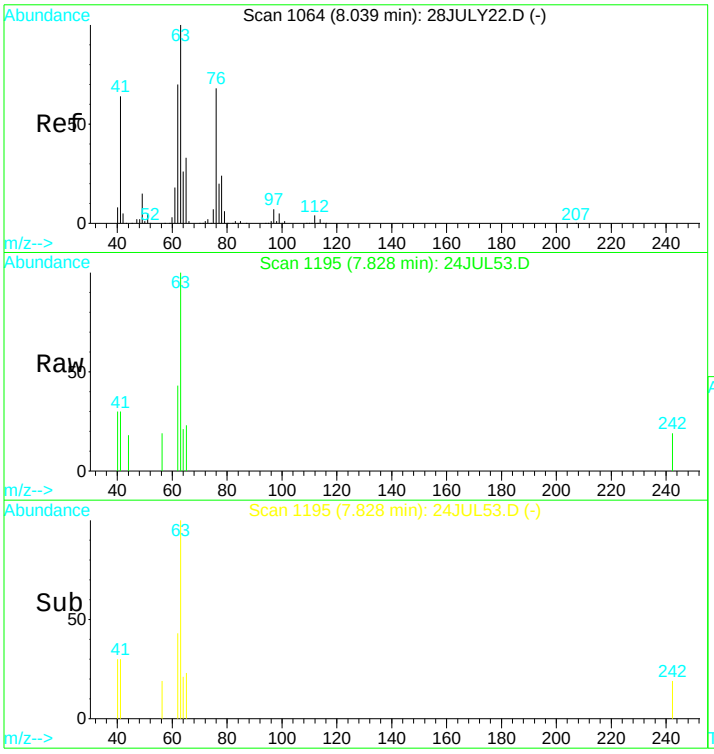


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion:114 Resp: 271606

Ion	Ratio	Lower	Upper
114	100		
88	17.0	11.7	21.7
63	24.2	16.7	30.9

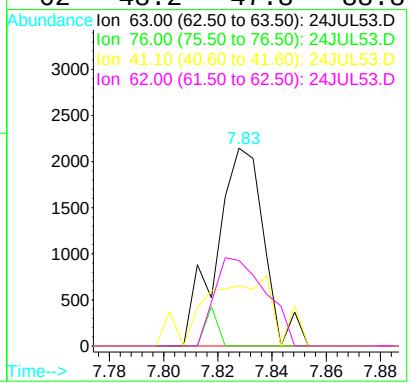


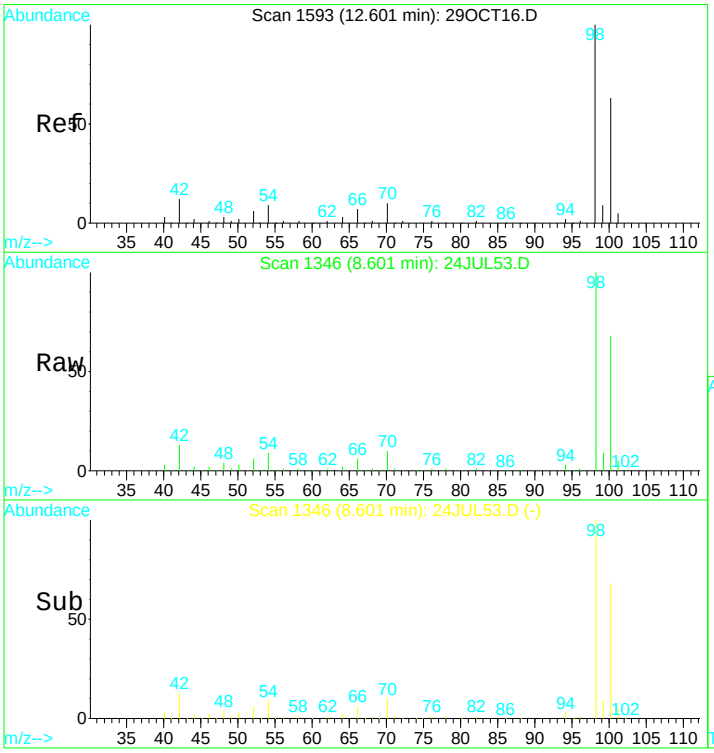


#26
1,2-Dichloropropane
Concen: 0.25 ug/L
RT: 7.83 min Scan# 1195
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 63 Resp: 2626

Ion	Ratio	Lower	Upper
63	100		
76	5.0	16.2	30.2#
41	52.5	38.9	72.3
62	48.2	47.8	88.8

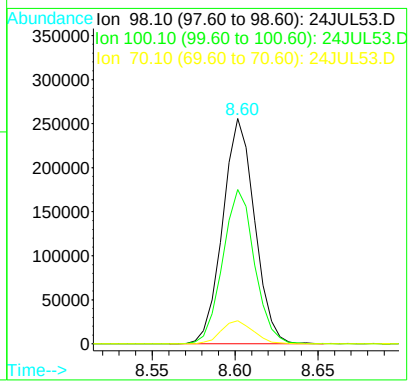


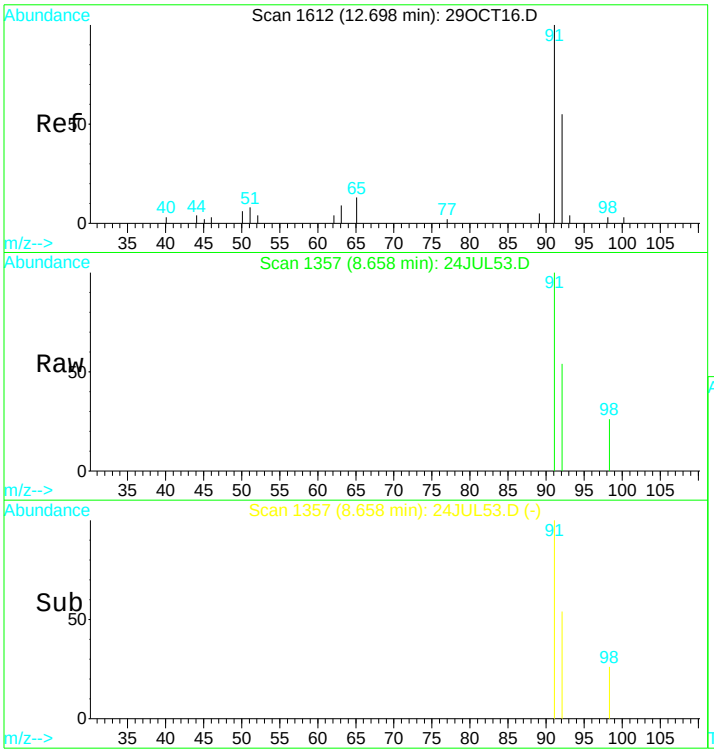


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 98 Resp: 342607

Ion	Ratio	Lower	Upper
98	100		
100	68.1	49.7	92.3
70	10.3	7.3	13.7

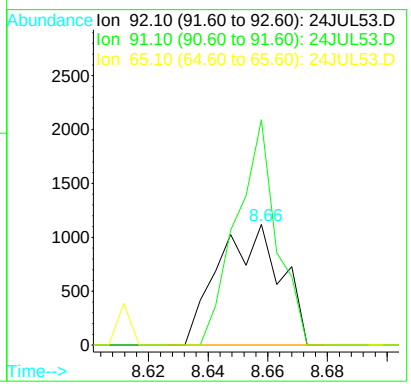


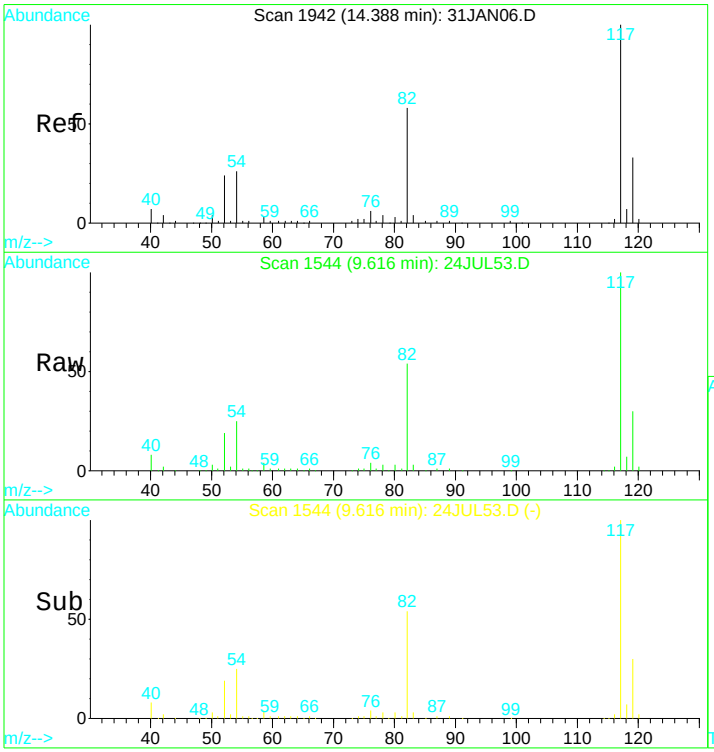


#32
Toluene
Concen: 0.07 ug/L
RT: 8.66 min Scan# 1357
Delta R.T. 0.01 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 92 Resp: 1622

Ion	Ratio	Lower	Upper
92	100		
91	121.3	122.6	227.6#
65	7.3	16.5	30.7#

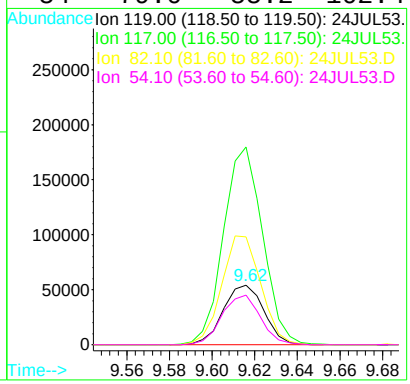


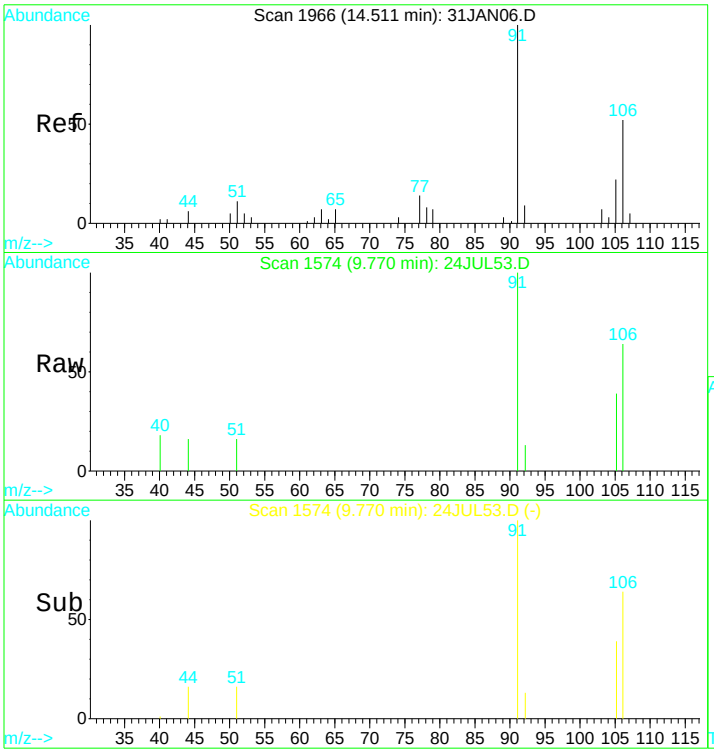


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion:119 Resp: 72214

Ion	Ratio	Lower	Upper
119	100		
117	318.8	214.5	398.4
82	174.9	117.7	218.7
54	79.0	55.2	102.4

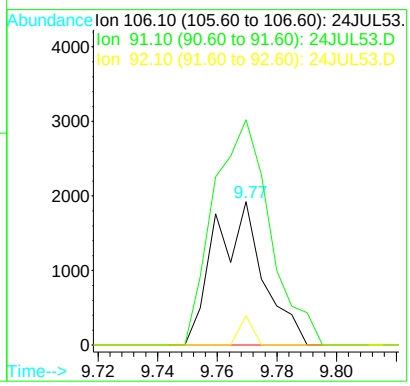


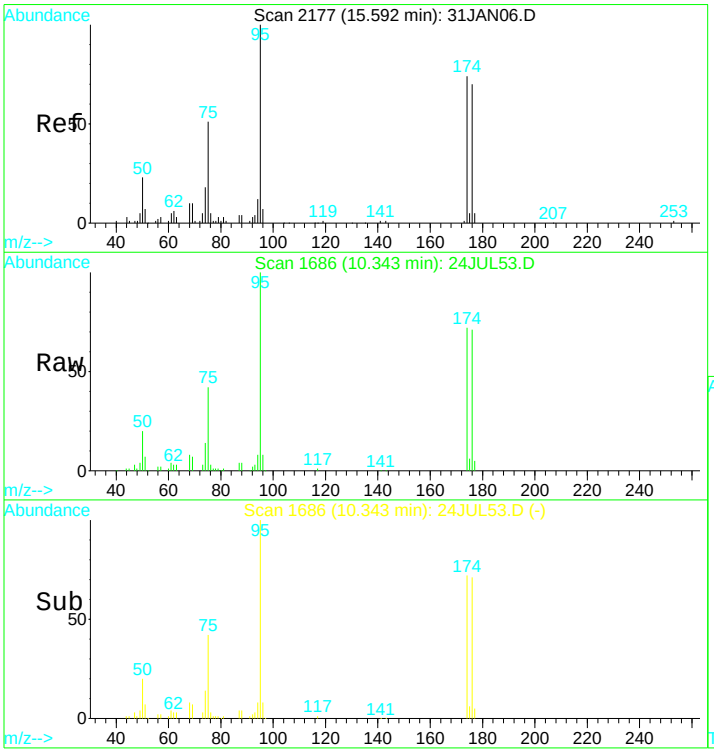


#43
P+m-Xylene
Concen: 0.13 ug/L
RT: 9.77 min Scan# 1574
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion:106 Resp: 2186

Ion	Ratio	Lower	Upper
106	100		
91	182.5	135.0	250.6
92	5.6	10.3	19.1#

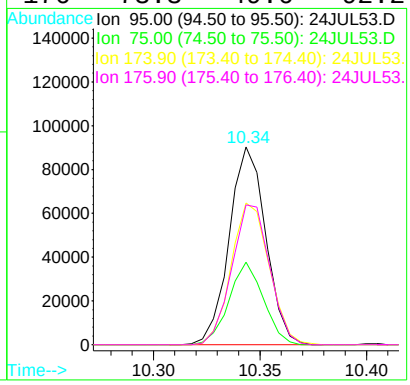


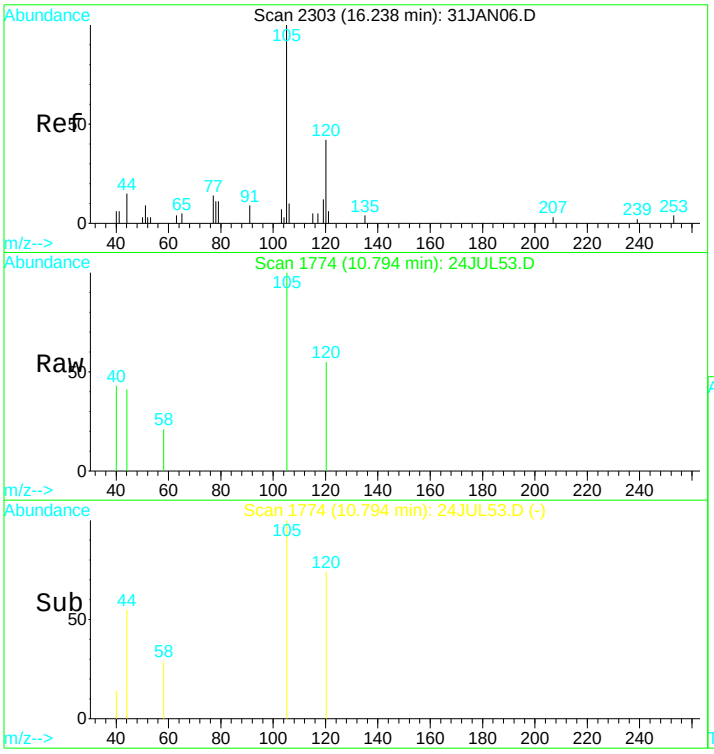


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion: 95 Resp: 107974

Ion	Ratio	Lower	Upper
95	100		
75	39.4	29.5	54.7
174	74.5	52.3	97.1
176	73.3	49.6	92.2

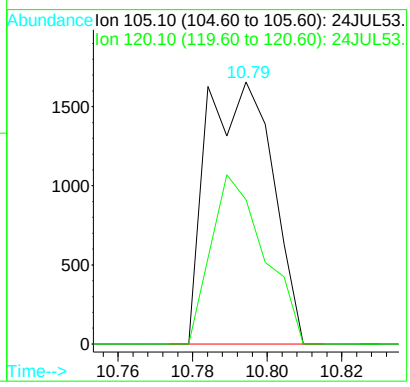




#57
1,2,4-trimethylbenzene
Concen: 0.06 ug/L
RT: 10.79 min Scan# 1774
Delta R.T. 0.00 min
Lab File: 24JUL53.D
Acq: 25 Jul 2017 12:39 am

Tgt Ion:105 Resp: 2034

Ion	Ratio	Lower	Upper
105	100		
120	52.3	31.8	59.0



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL53.D Vial: 53
Acq On : 25 Jul 2017 12:39 am Operator: MGC
Sample : 1720018-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:32 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	184363	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	271606	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	72214	10.00	ug/L	0.00

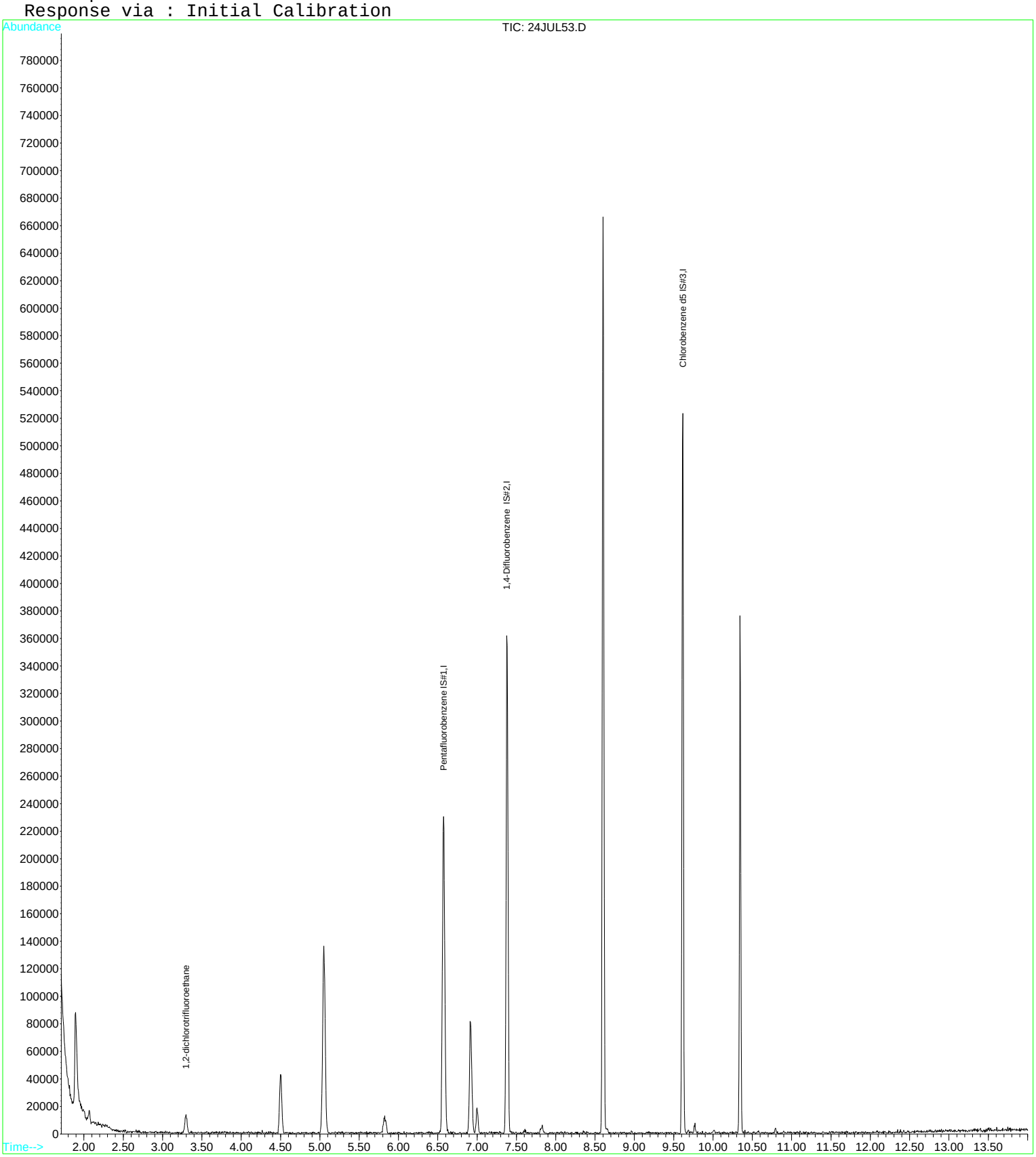
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	9512	0.78	ug/L #	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL53.D Vial: 53
Acq On : 25 Jul 2017 12:39 am Operator: MGC
Sample : 1720018-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:32 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL54.D Vial: 54
Acq On : 25 Jul 2017 1:02 am Operator: MGC
Sample : 1720018-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:04 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	181915	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	273719	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	70781	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	50136	9.44	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 94.40%			
31) Toluene d8 SMC#2	8.60	98	335392	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.20%			
49) Bromofluorobenzene SMC#3	10.34	95	105711	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.00%			

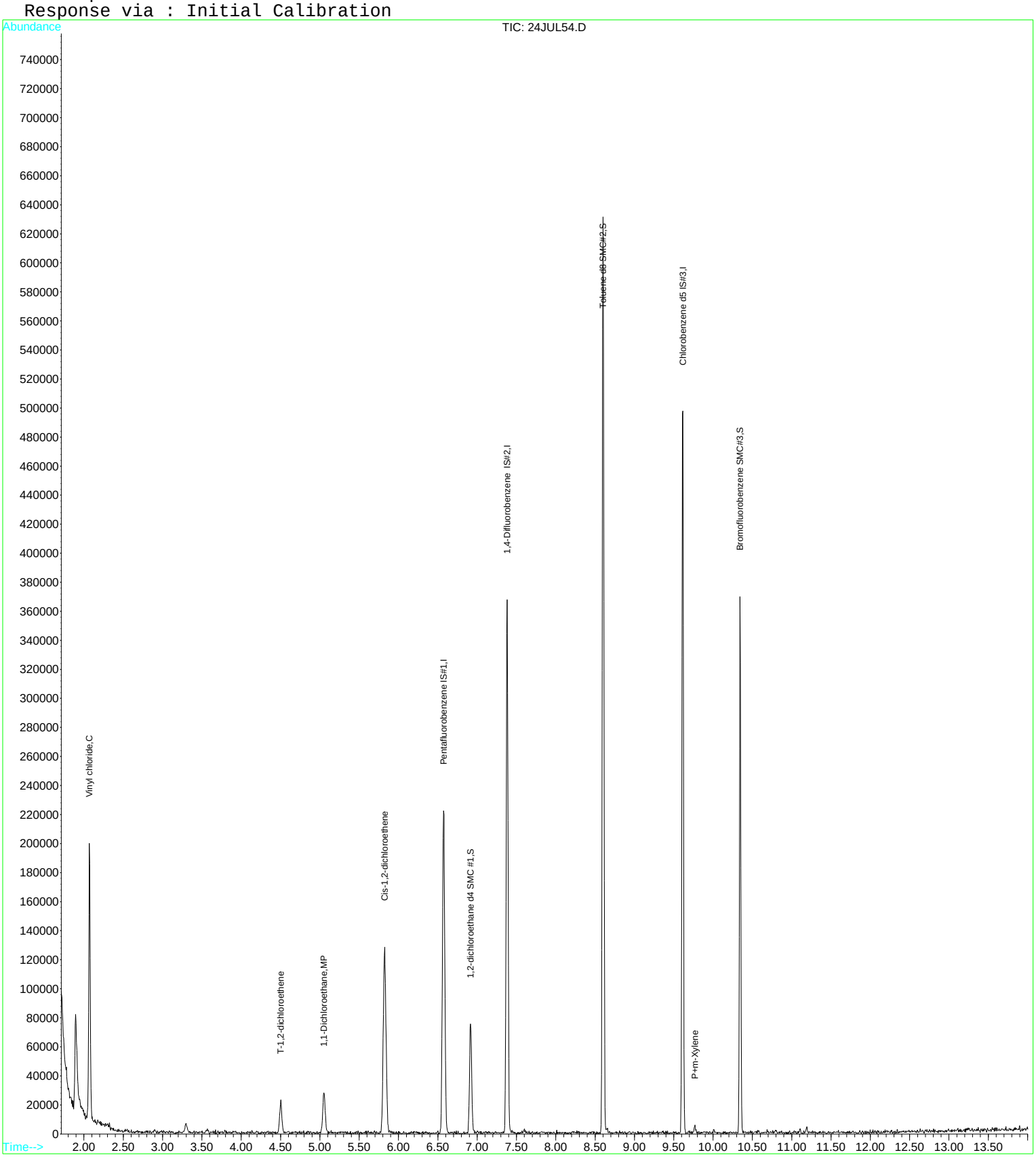
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	160598	11.78	ug/L #	76
12) T-1,2-dichloroethene	4.50	96	9401	1.03	ug/L	91
13) 1,1-Dichloroethane	5.05	63	36080	1.85	ug/L	99
15) Cis-1,2-dichloroethene	5.82	96	71254	7.50	ug/L	83
43) P+m-Xylene	9.77	106	1719	0.10	ug/L #	90

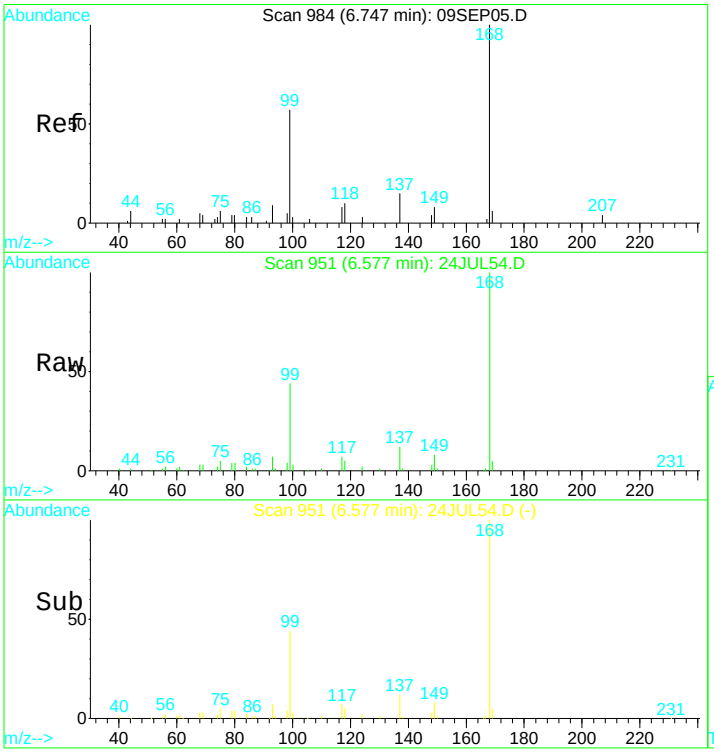
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL54.D Vial: 54
Acq On : 25 Jul 2017 1:02 am Operator: MGC
Sample : 1720018-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:04 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

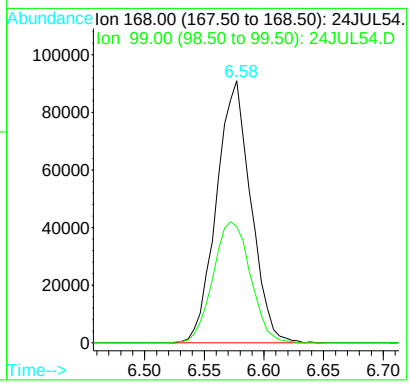


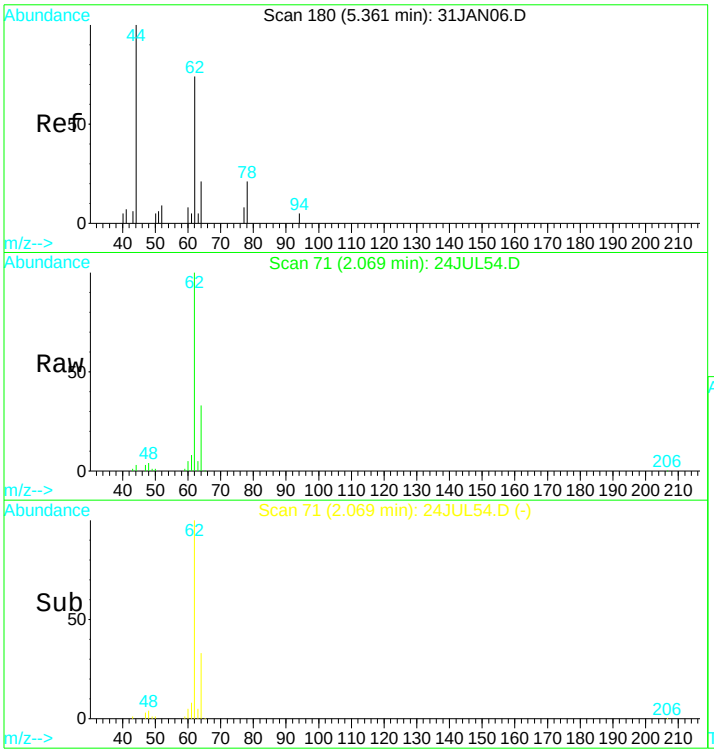


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion:168 Resp: 181915

Ion	Ratio	Lower	Upper
168	100		
99	50.3	38.7	71.9

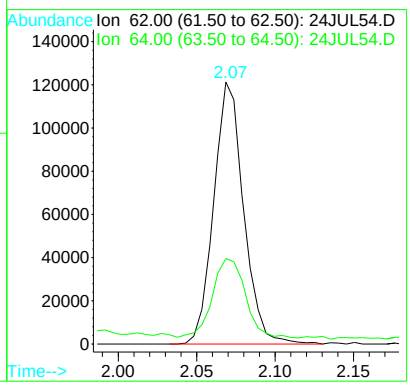


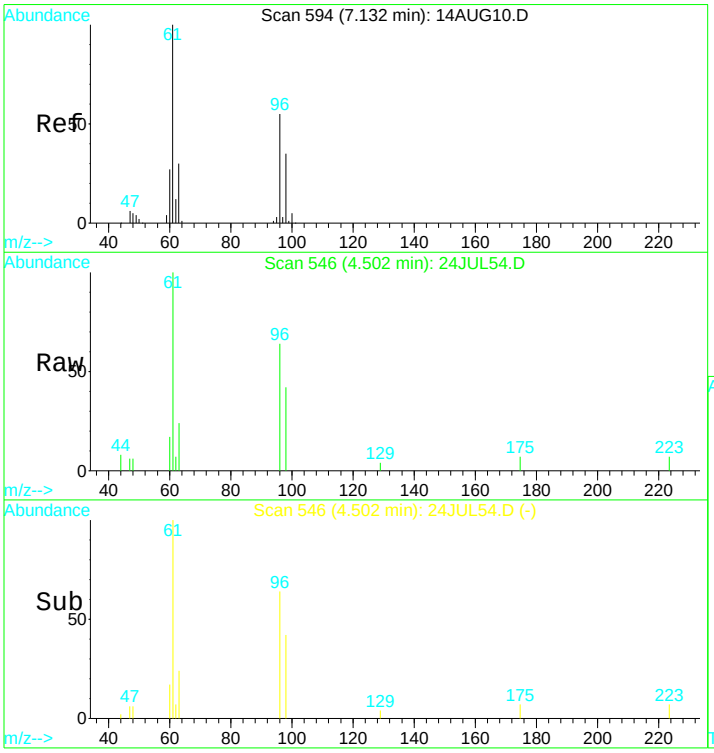


#4
Vinyl chloride
Concen: 11.78 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 62 Resp: 160598

Ion	Ratio	Lower	Upper
62	100		
64	38.3	39.3	72.9#

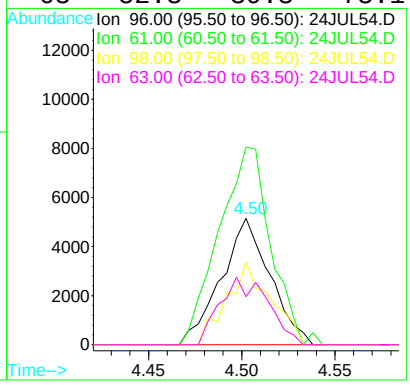


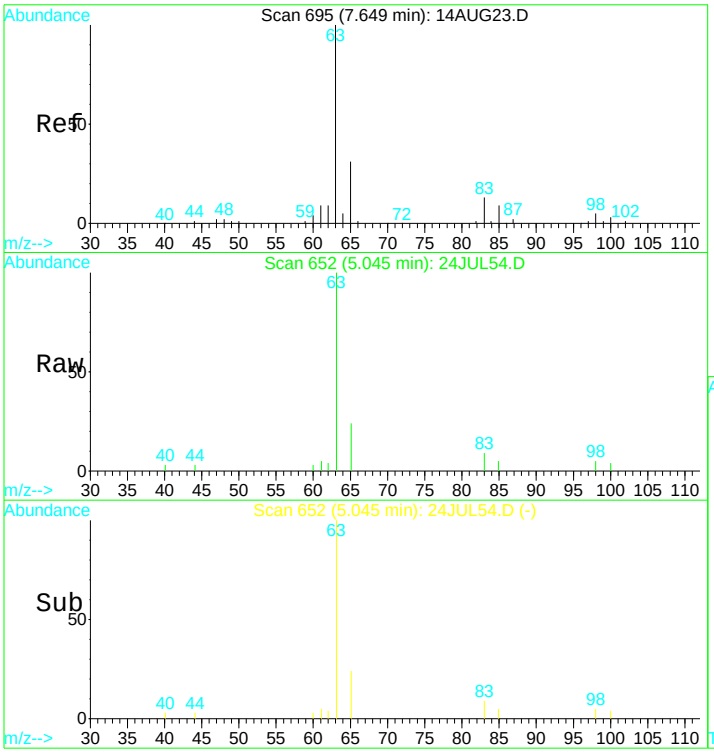


#12
T-1,2-dichloroethene
Concen: 1.03 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 96 Resp: 9401

Ion	Ratio	Lower	Upper
96	100		
61	165.5	129.4	240.4
98	58.7	41.5	77.1
63	52.3	39.3	73.1

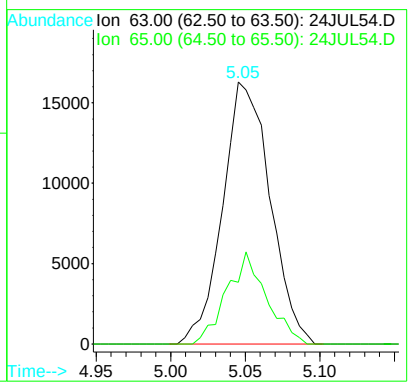


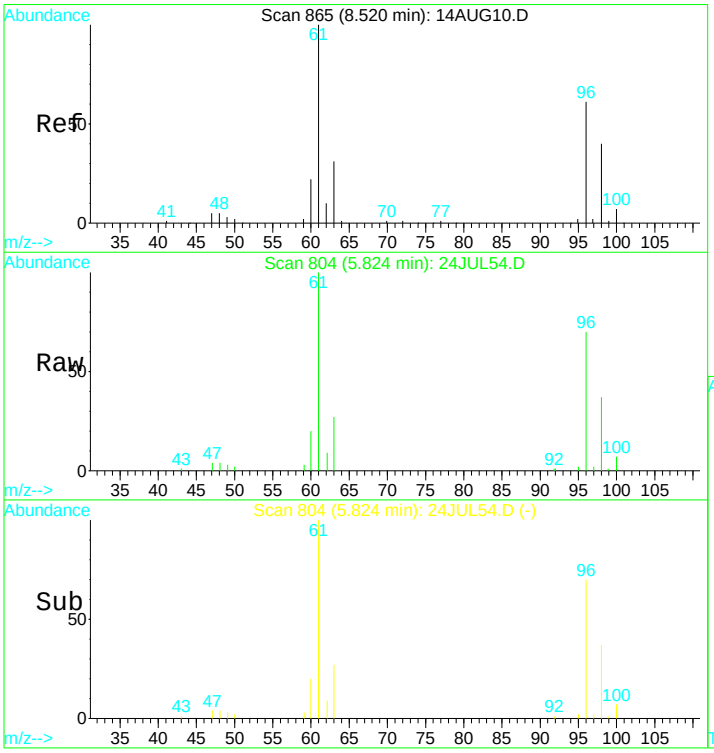


#13
1,1-Dichloroethane
Concen: 1.85 ug/L
RT: 5.05 min Scan# 652
Delta R.T. -0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 63 Resp: 36080

Ion	Ratio	Lower	Upper
63	100		
65	29.1	20.8	38.6

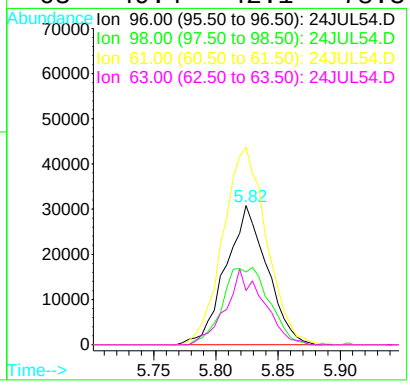


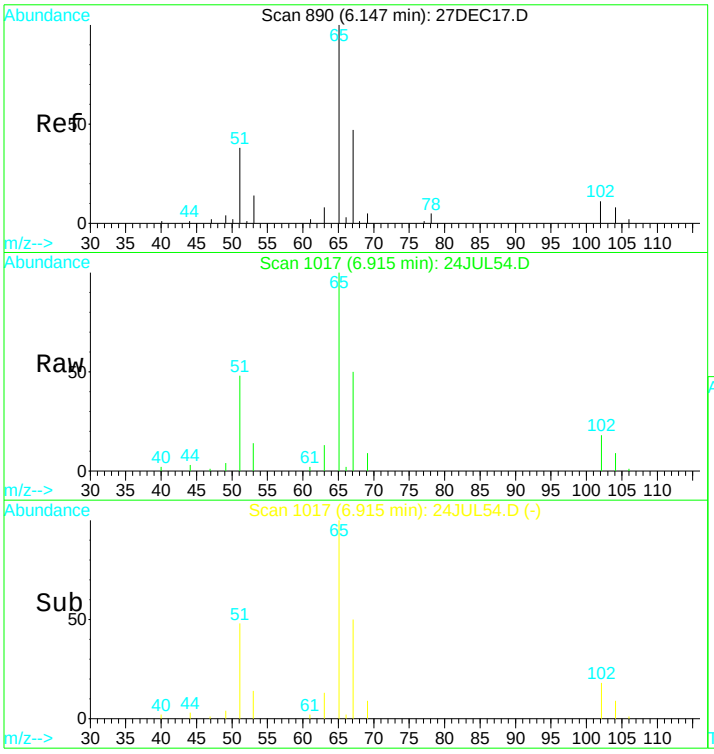


#15
Cis-1,2-dichloroethene
Concen: 7.50 ug/L
RT: 5.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 96 Resp: 71254

Ion	Ratio	Lower	Upper
96	100		
98	62.2	51.9	96.3
61	149.4	122.8	228.0
63	49.4	42.1	78.3

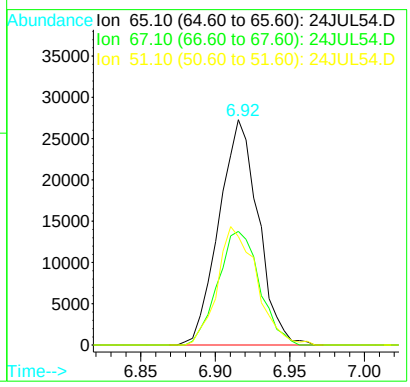


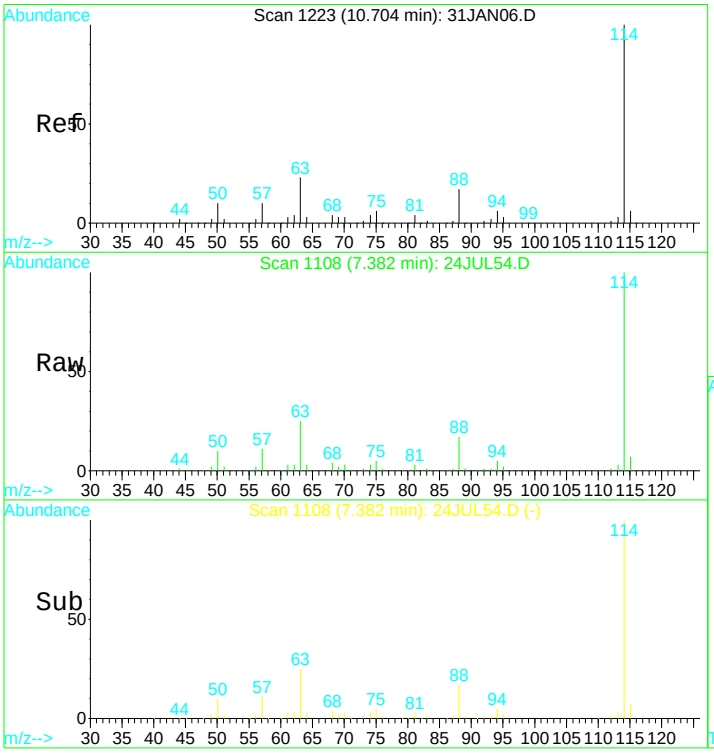


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 65 Resp: 50136

Ion	Ratio	Lower	Upper
65	100		
67	53.4	36.2	67.2
51	52.4	42.0	78.0

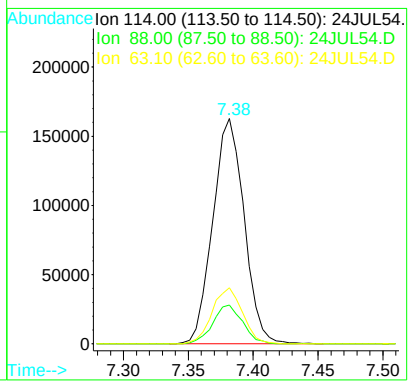


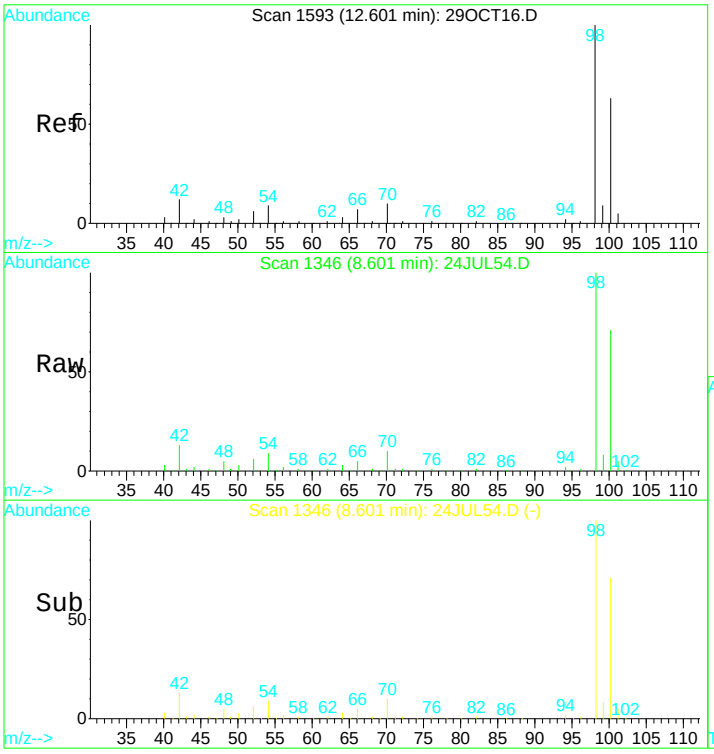


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion:114 Resp: 273719

Ion	Ratio	Lower	Upper
114	100		
88	16.4	11.7	21.7
63	24.1	16.7	30.9

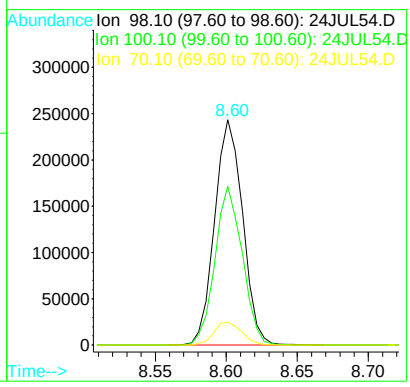


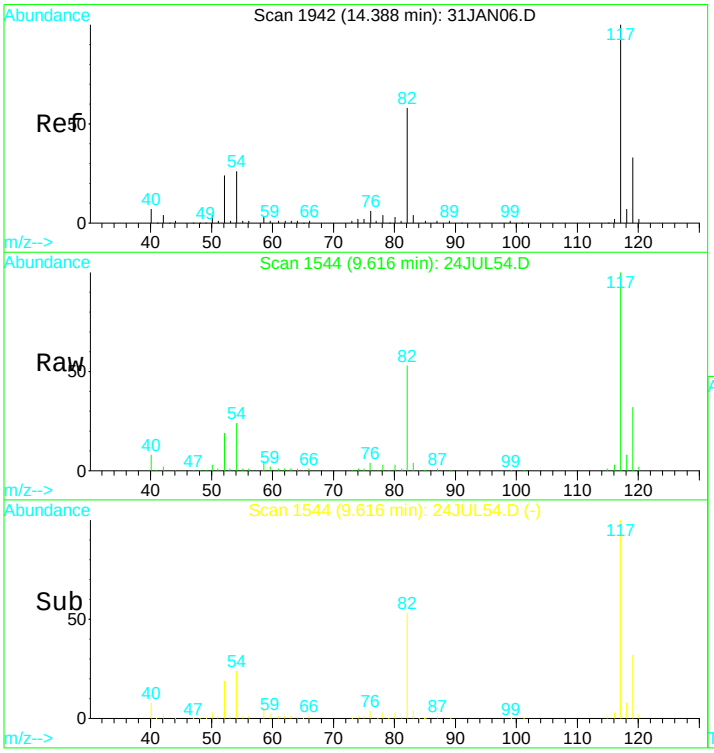


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 98 Resp: 335392

Ion	Ratio	Lower	Upper
98	100		
100	68.7	49.7	92.3
70	10.2	7.3	13.7

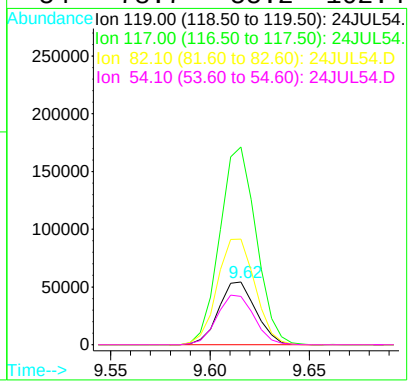


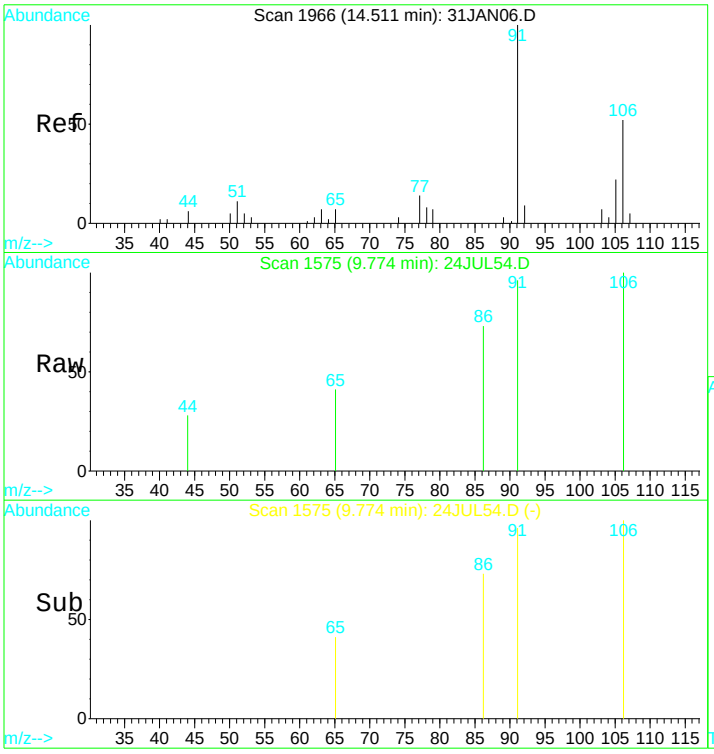


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion:119 Resp: 70781

Ion	Ratio	Lower	Upper
119	100		
117	308.3	214.5	398.4
82	170.6	117.7	218.7
54	78.7	55.2	102.4

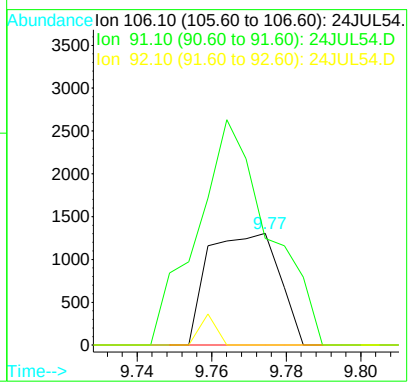


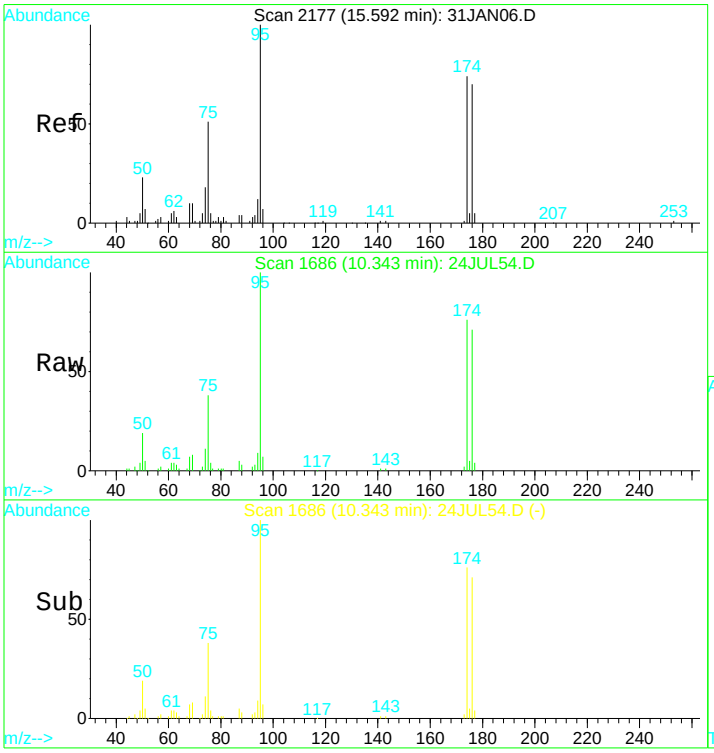


#43
P+m-Xylene
Concen: 0.10 ug/L
RT: 9.77 min Scan# 1575
Delta R.T. 0.01 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion:106 Resp: 1719

Ion	Ratio	Lower	Upper
106	100		
91	206.4	135.0	250.6
92	6.5	10.3	19.1#

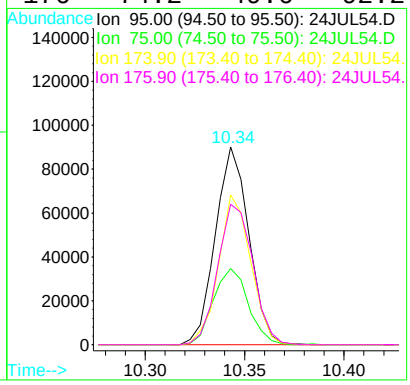




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL54.D
Acq: 25 Jul 2017 1:02 am

Tgt Ion: 95 Resp: 105711

Ion	Ratio	Lower	Upper
95	100		
75	40.1	29.5	54.7
174	72.9	52.3	97.1
176	74.2	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL54.D Vial: 54
Acq On : 25 Jul 2017 1:02 am Operator: MGC
Sample : 1720018-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:32 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	181915	10.00 ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	273719	10.00 ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	70781	10.00 ug/L	0.00

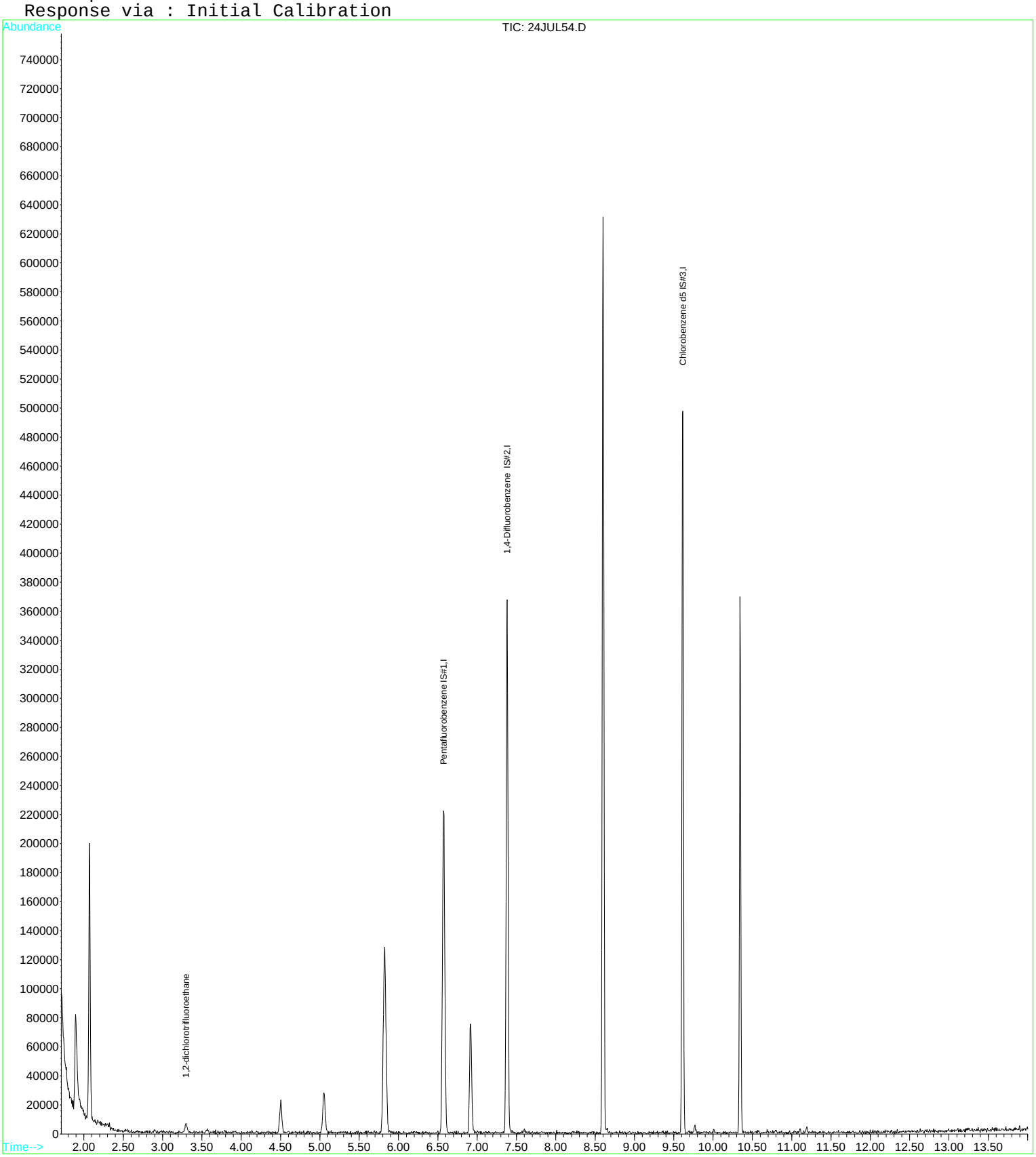
Target Compounds					Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	5018	0.42 ug/L #	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL54.D Vial: 54
Acq On : 25 Jul 2017 1:02 am Operator: MGC
Sample : 1720018-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:32 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL55.D Vial: 55
Acq On : 25 Jul 2017 1:25 am Operator: MGC
Sample : 1720018-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:04 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177351	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	260503	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	69569	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	49287	9.51	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 95.10%			
31) Toluene d8 SMC#2	8.60	98	319550	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
49) Bromofluorobenzene SMC#3	10.34	95	102899	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.10%			

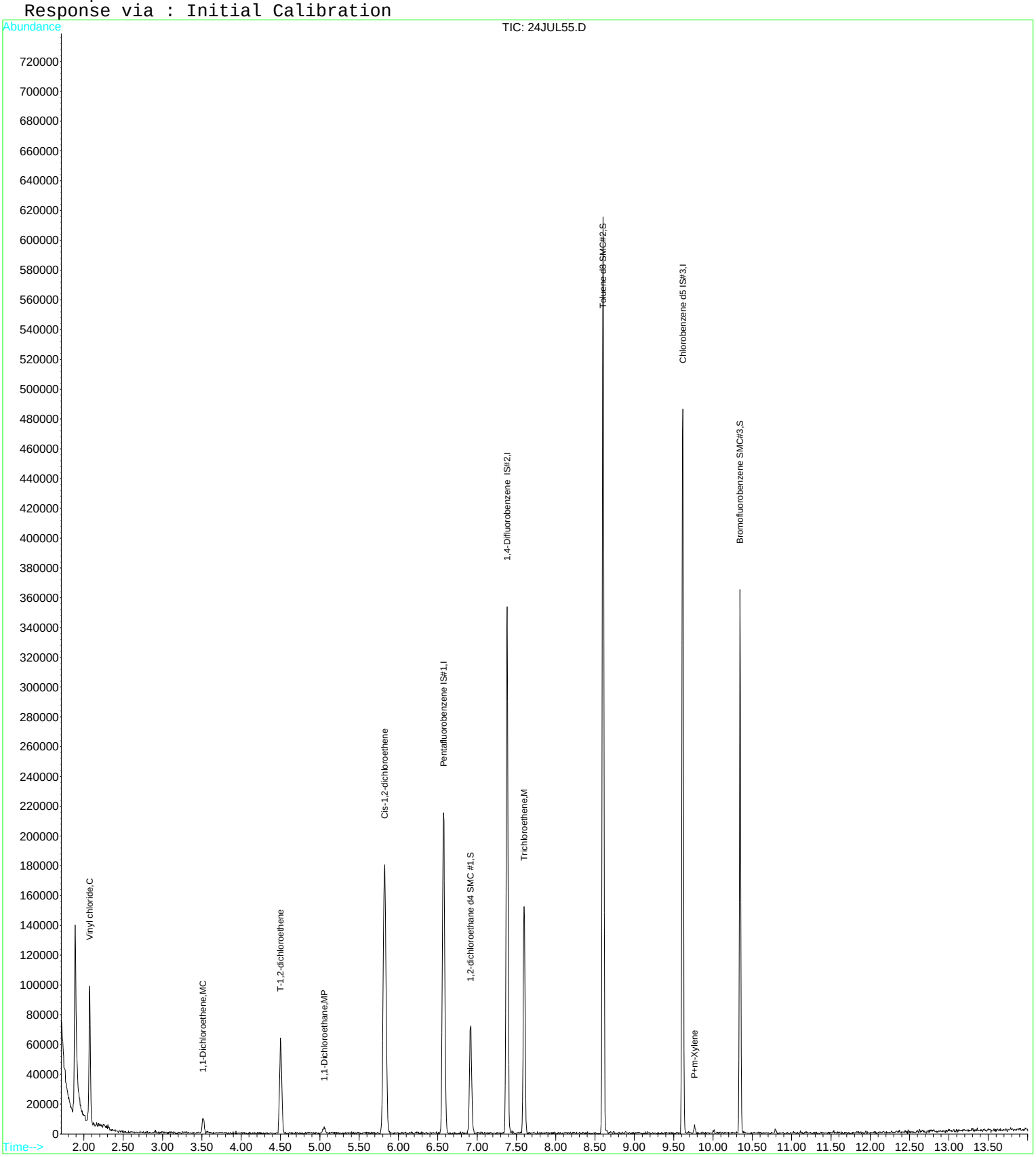
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	73702	5.55	ug/L	88
9) 1,1-Dichloroethene	3.51	61	8637	0.60	ug/L #	84
12) T-1,2-dichloroethene	4.50	96	25213	2.84	ug/L	96
13) 1,1-Dichloroethane	5.05	63	6363	0.34	ug/L #	77
15) Cis-1,2-dichloroethene	5.82	96	102838	11.10	ug/L	87
25) Trichloroethene	7.60	130	45426	5.08	ug/L	90
43) P+m-Xylene	9.76	106	1316	0.08	ug/L #	70

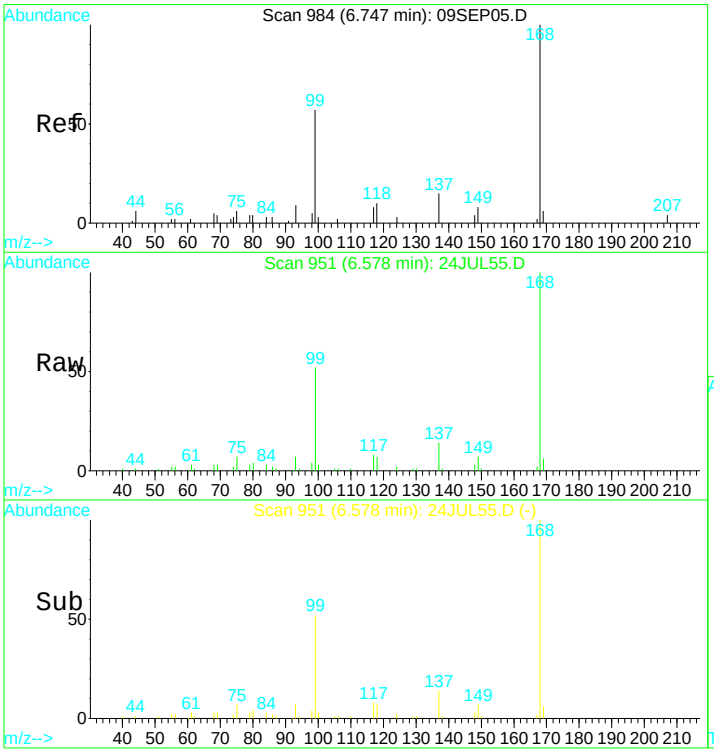
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL55.D Vial: 55
Acq On : 25 Jul 2017 1:25 am Operator: MGC
Sample : 1720018-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:04 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

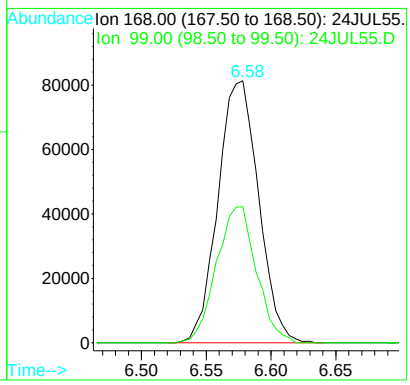


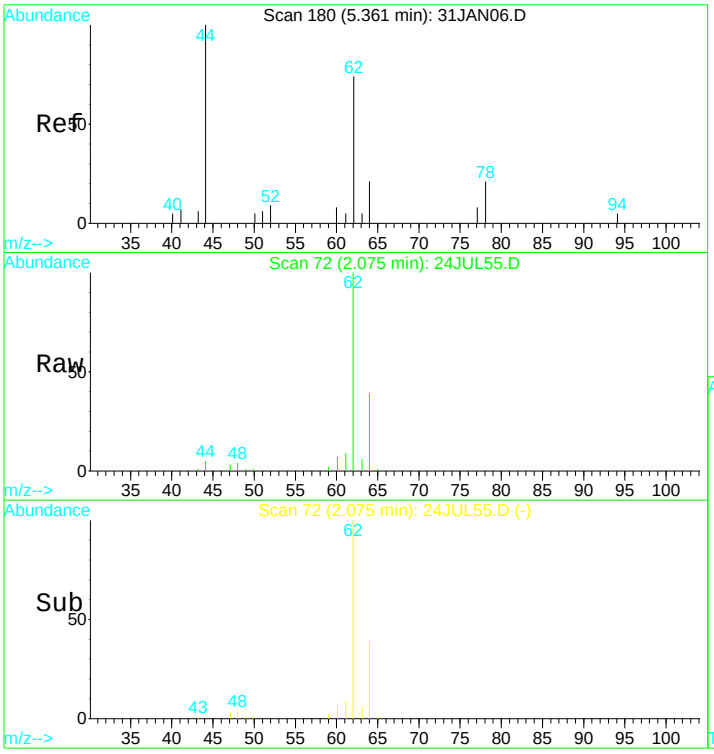


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion:168 Resp: 177351

Ion	Ratio	Lower	Upper
168	100		
99	51.0	38.7	71.9

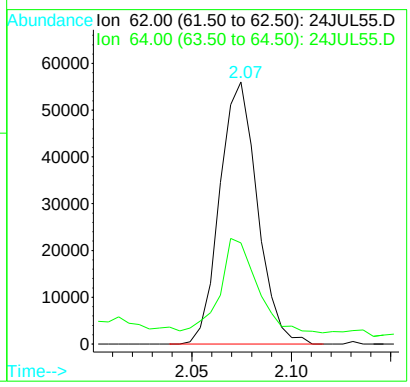


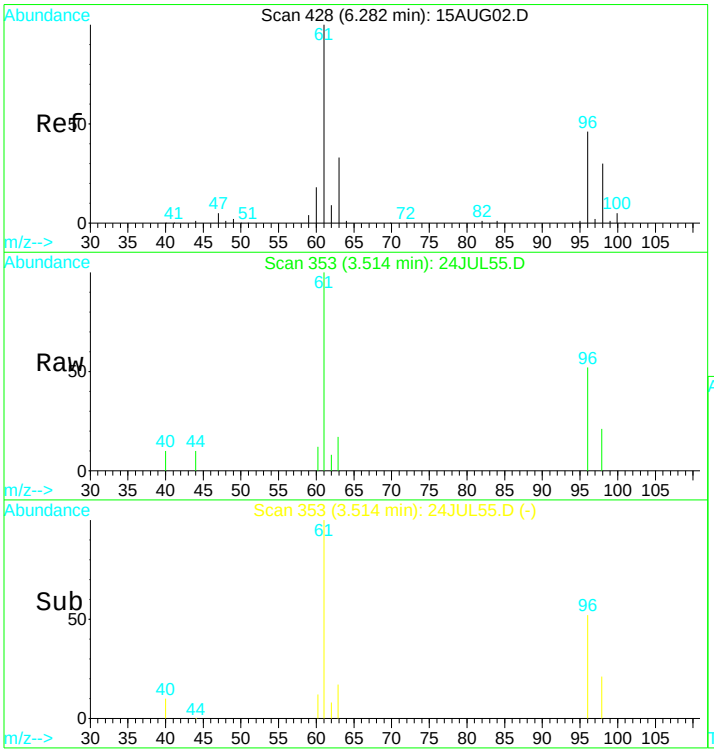


#4
Vinyl chloride
Concen: 5.55 ug/L
RT: 2.07 min Scan# 72
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 62 Resp: 73702

Ion	Ratio	Lower	Upper
62	100		
64	47.5	39.3	72.9

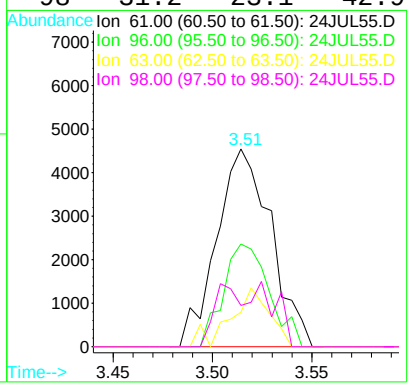


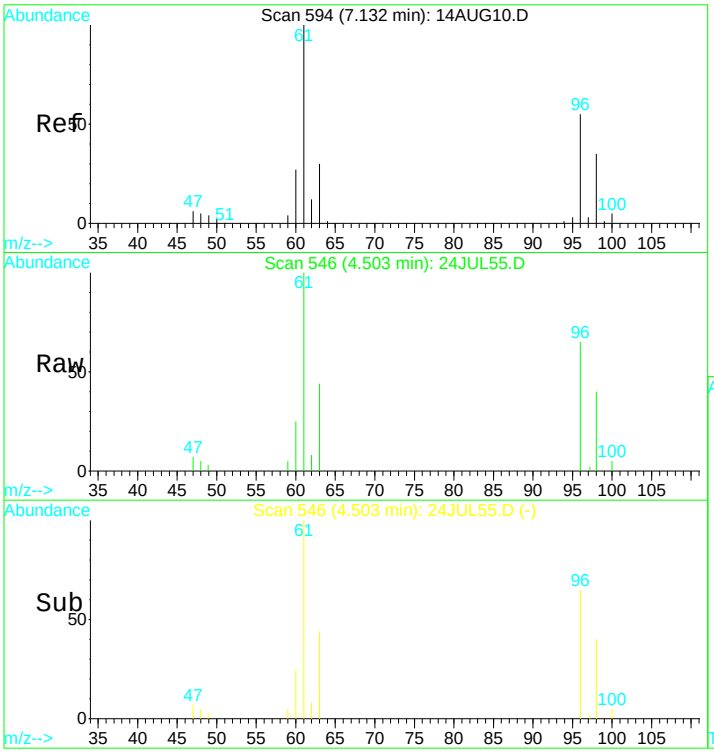


#9
1,1-Dichloroethene
Concen: 0.60 ug/L
RT: 3.51 min Scan# 353
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 61 Resp: 8637

Ion	Ratio	Lower	Upper
61	100		
96	43.8	41.2	76.4
63	21.3	23.7	43.9#
98	31.2	23.1	42.9

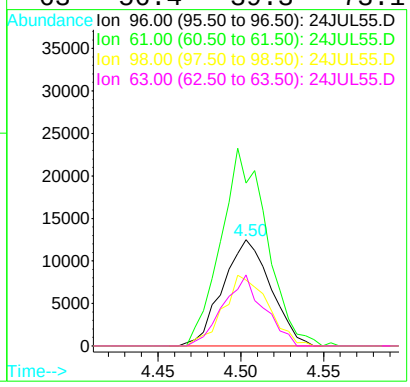


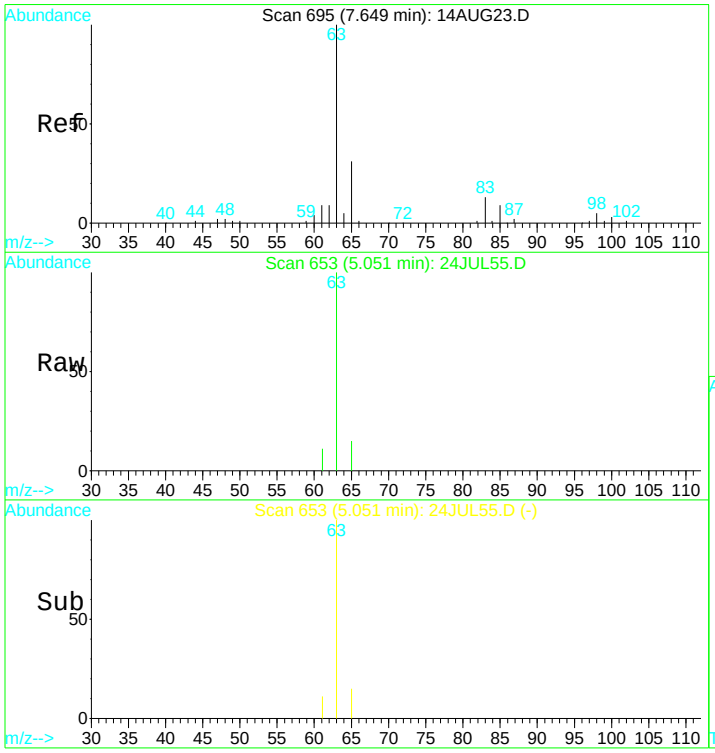


#12
T-1,2-dichloroethene
Concen: 2.84 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 96 Resp: 25213

Ion	Ratio	Lower	Upper
96	100		
61	177.4	129.4	240.4
98	62.0	41.5	77.1
63	56.4	39.3	73.1

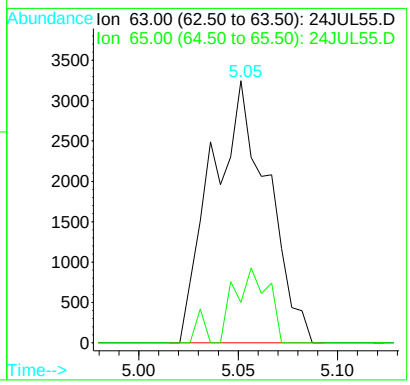


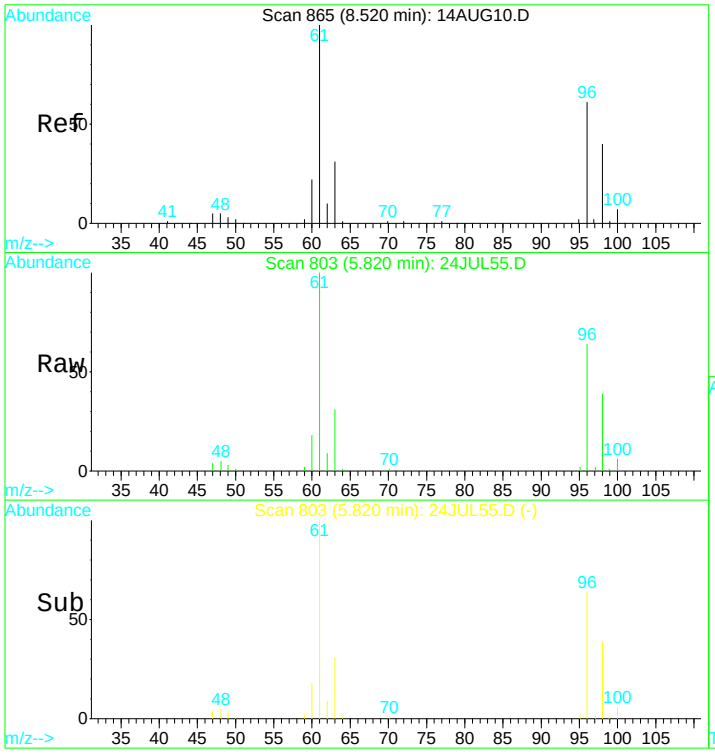


#13
1,1-Dichloroethane
Concen: 0.34 ug/L
RT: 5.05 min Scan# 653
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 63 Resp: 6363

Ion	Ratio	Lower	Upper
63	100		
65	17.1	20.8	38.6#

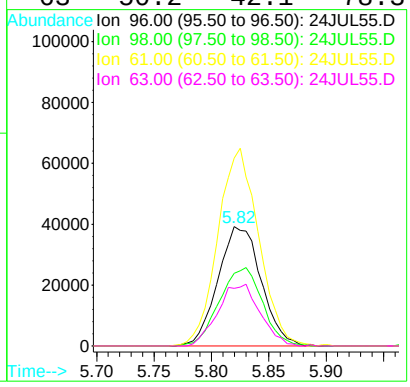


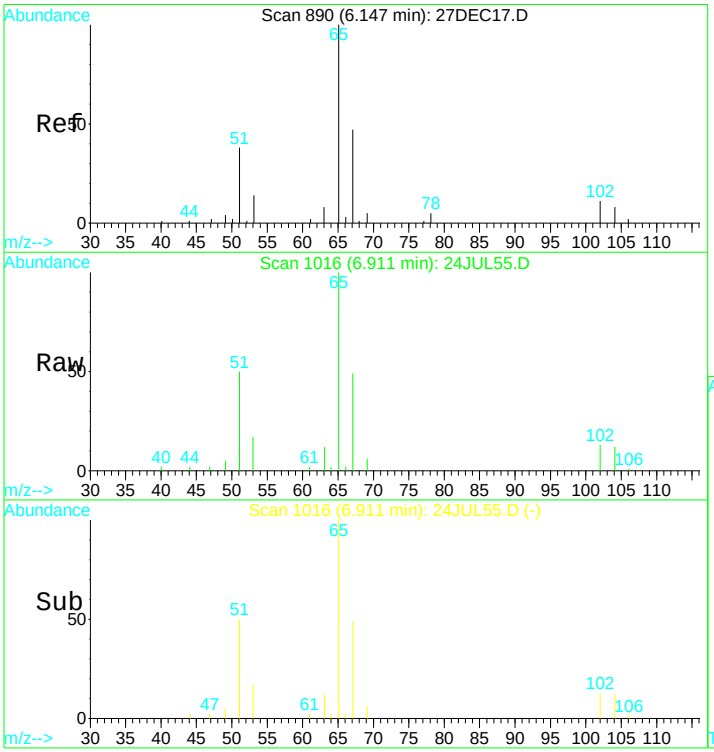


#15
Cis-1,2-dichloroethene
Concen: 11.10 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 96 Resp: 102838

Ion	Ratio	Lower	Upper
96	100		
98	65.2	51.9	96.3
61	156.5	122.8	228.0
63	50.2	42.1	78.3

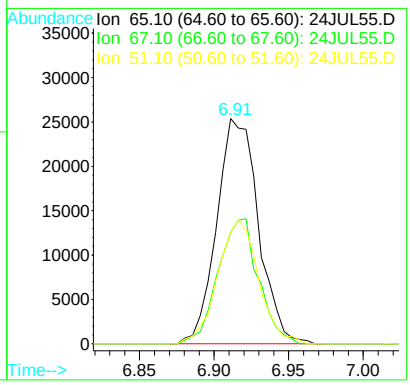


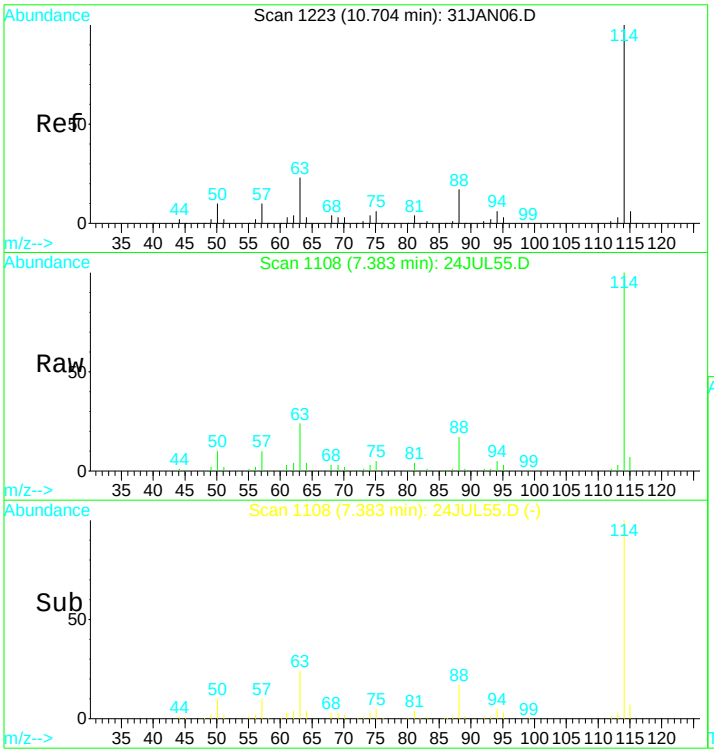


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 65 Resp: 49287

Ion	Ratio	Lower	Upper
65	100		
67	53.8	36.2	67.2
51	53.9	42.0	78.0

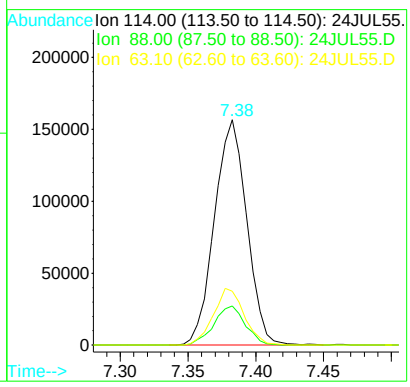


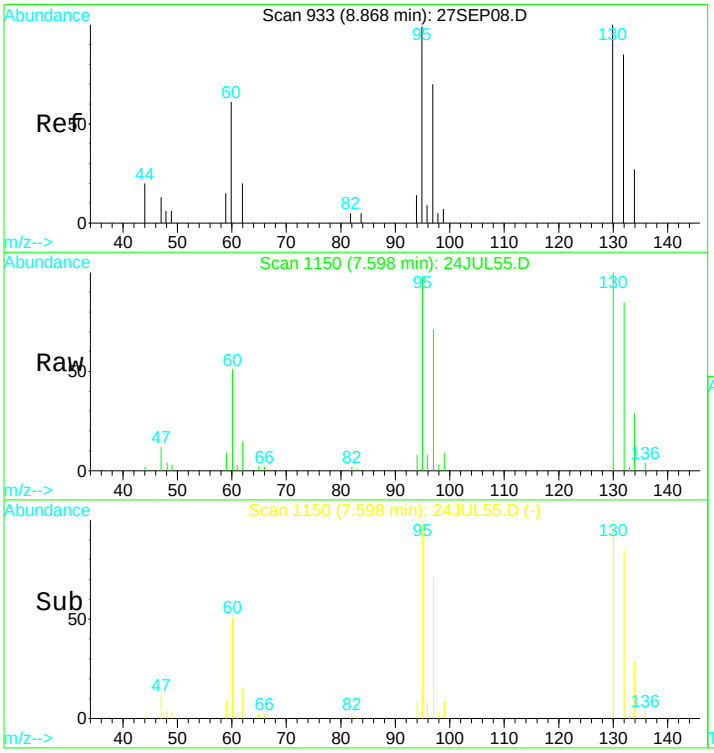


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion:114 Resp: 260503

Ion	Ratio	Lower	Upper
114	100		
88	16.9	11.7	21.7
63	23.9	16.7	30.9

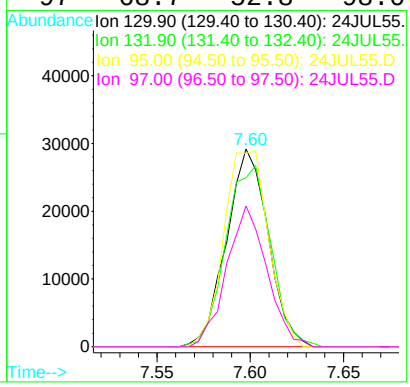


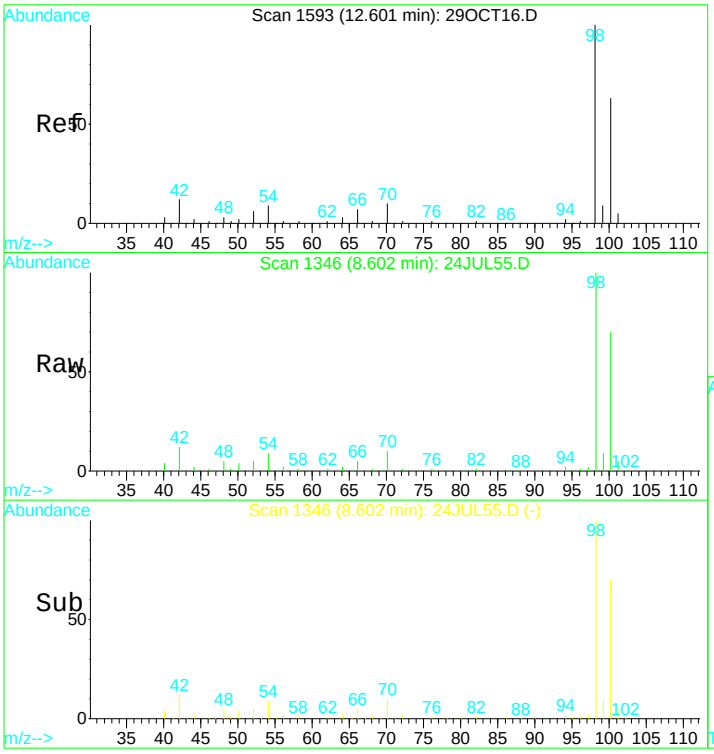


#25
Trichloroethene
Concen: 5.08 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion:130 Resp: 45426

Ion	Ratio	Lower	Upper
130	100		
132	98.5	66.1	122.7
95	106.3	86.1	159.9
97	68.7	52.8	98.0

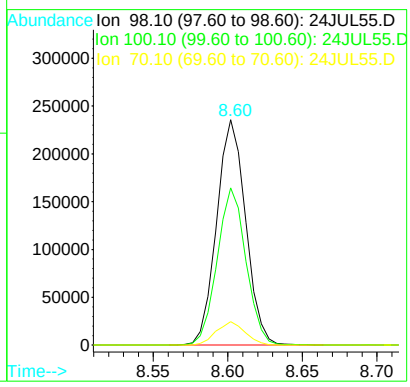


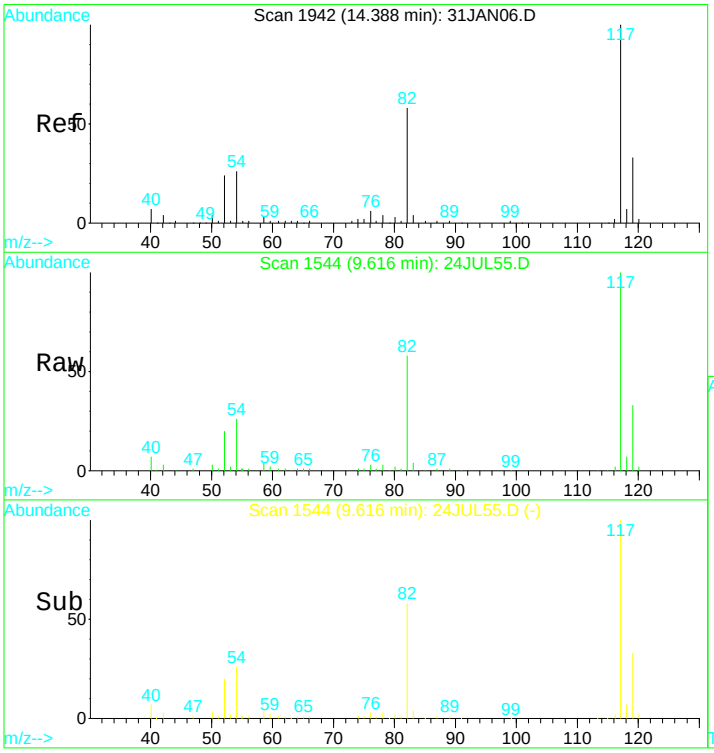


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 98 Resp: 319550

Ion	Ratio	Lower	Upper
98	100		
100	69.1	49.7	92.3
70	10.4	7.3	13.7

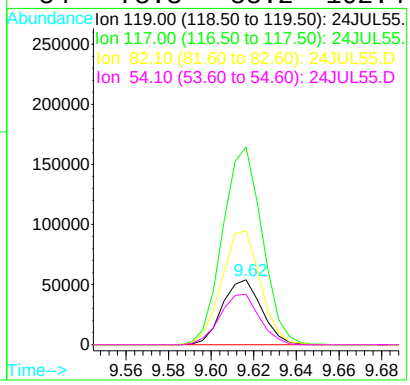


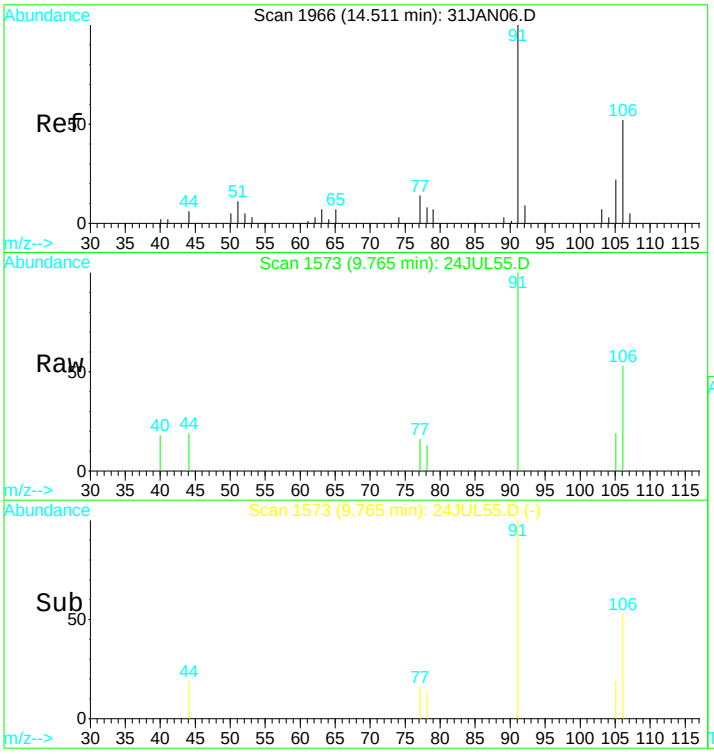


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion:119 Resp: 69569

Ion	Ratio	Lower	Upper
119	100		
117	306.5	214.5	398.4
82	173.8	117.7	218.7
54	78.3	55.2	102.4

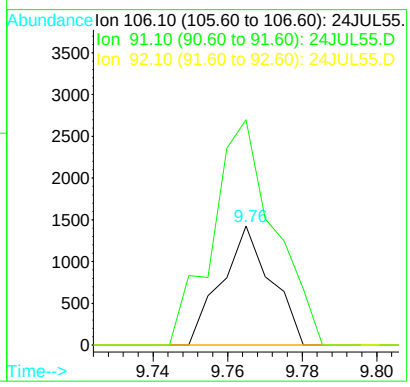


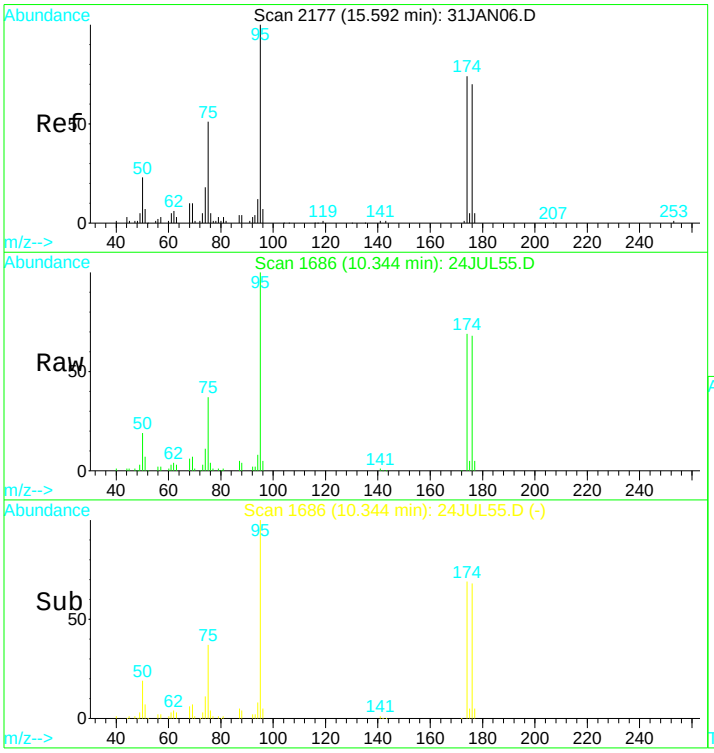


#43
P+m-Xylene
Concen: 0.08 ug/L
RT: 9.76 min Scan# 1573
Delta R.T. -0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion:106 Resp: 1316

Ion	Ratio	Lower	Upper
106	100		
91	236.6	135.0	250.6
92	0.0	10.3	19.1#

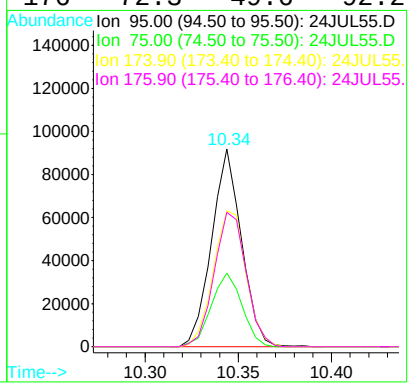




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL55.D
Acq: 25 Jul 2017 1:25 am

Tgt Ion: 95 Resp: 102899

Ion	Ratio	Lower	Upper
95	100		
75	38.2	29.5	54.7
174	74.9	52.3	97.1
176	72.3	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL55.D Vial: 55
Acq On : 25 Jul 2017 1:25 am Operator: MGC
Sample : 1720018-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:33 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177351	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	260503	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69569	10.00	ug/L	0.00

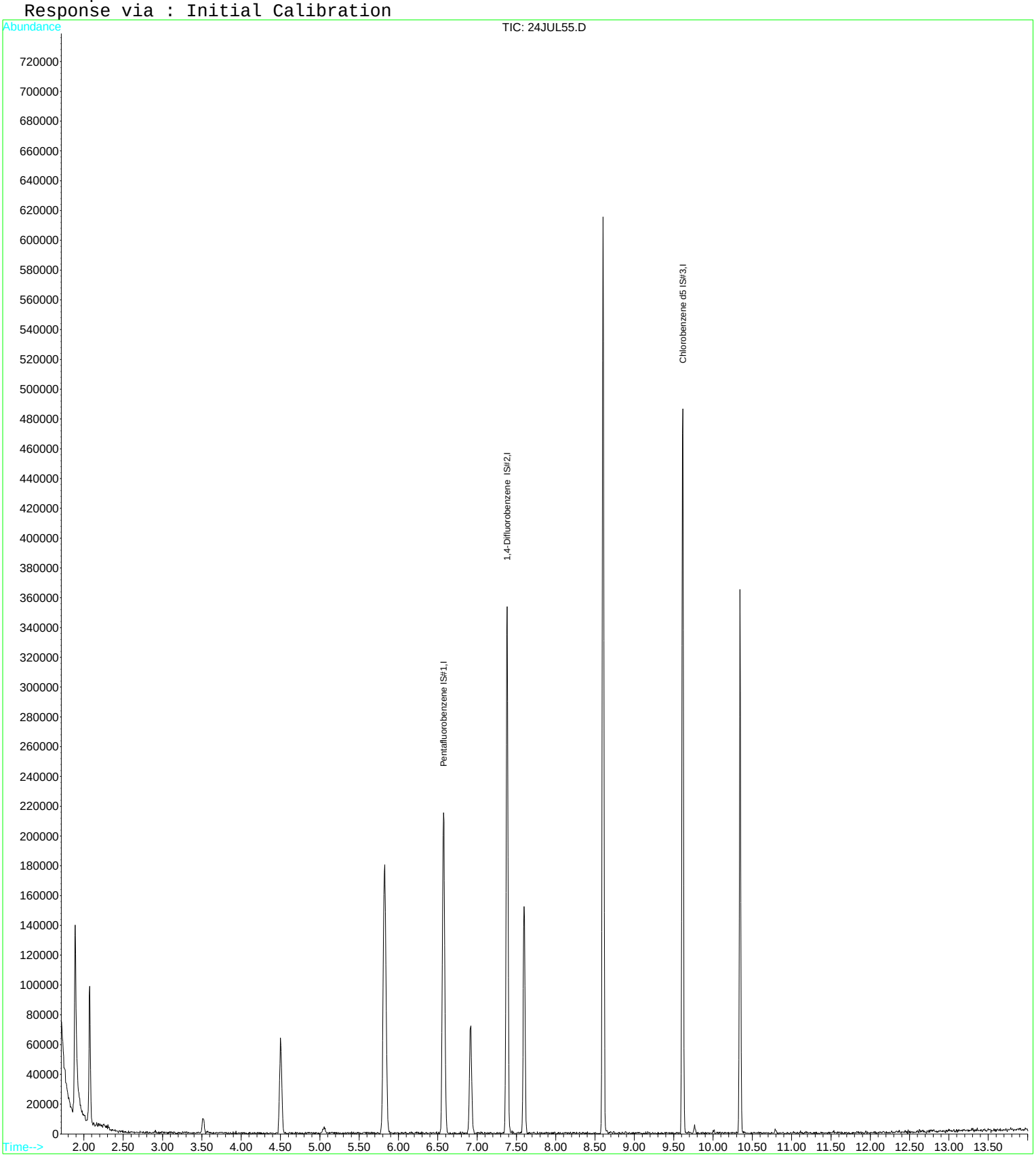
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL55.D Vial: 55
Acq On : 25 Jul 2017 1:25 am Operator: MGC
Sample : 1720018-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:33 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL56.D Vial: 56
Acq On : 25 Jul 2017 1:48 am Operator: MGC
Sample : 1720018-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:04 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	178961	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	264121	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	70197	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	50637	9.69	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 96.90%			
31) Toluene d8 SMC#2	8.60	98	330693	10.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.40%			
49) Bromofluorobenzene SMC#3	10.34	95	106755	10.18	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.80%			

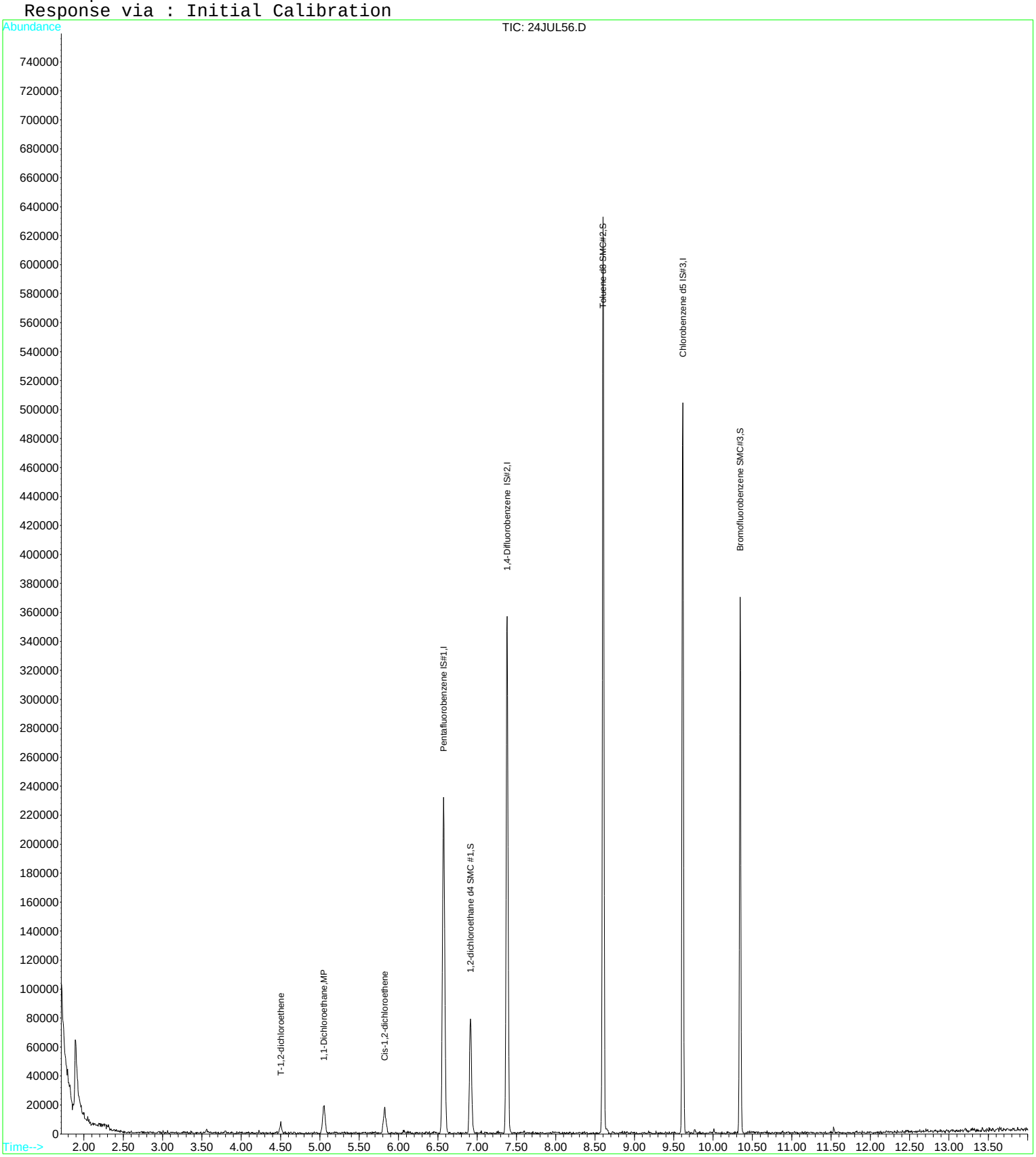
Target Compounds						Qvalue
12) T-1,2-dichloroethene	4.50	96	2588	0.29	ug/L	93
13) 1,1-Dichloroethane	5.05	63	25441	1.33	ug/L	97
15) Cis-1,2-dichloroethene	5.82	96	9357	1.00	ug/L	86

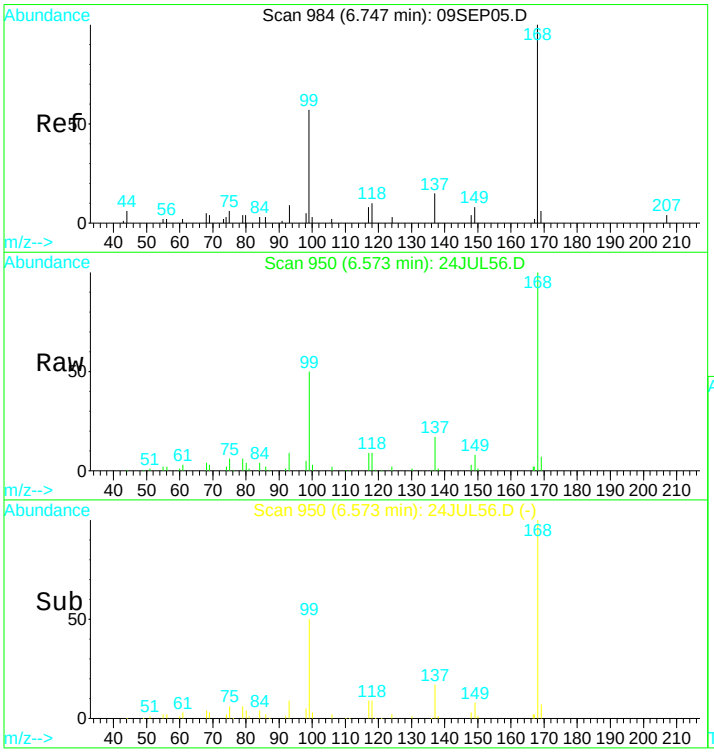
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL56.D Vial: 56
Acq On : 25 Jul 2017 1:48 am Operator: MGC
Sample : 1720018-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:04 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

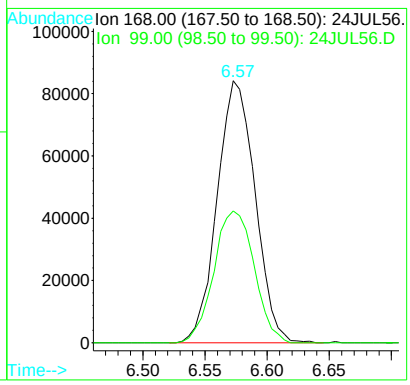


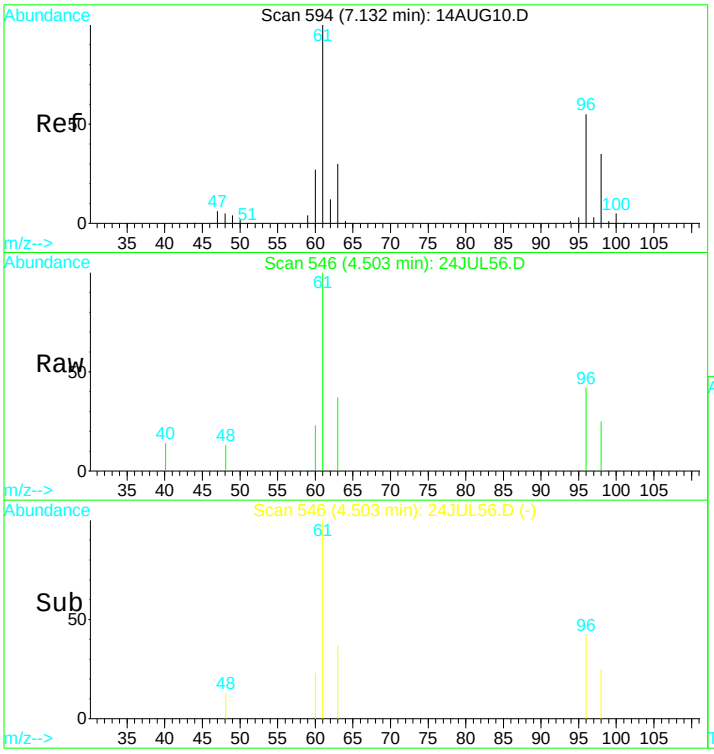


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion:168 Resp: 178961

Ion	Ratio	Lower	Upper
168	100		
99	53.4	38.7	71.9

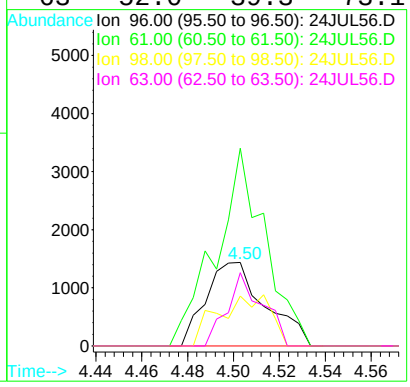


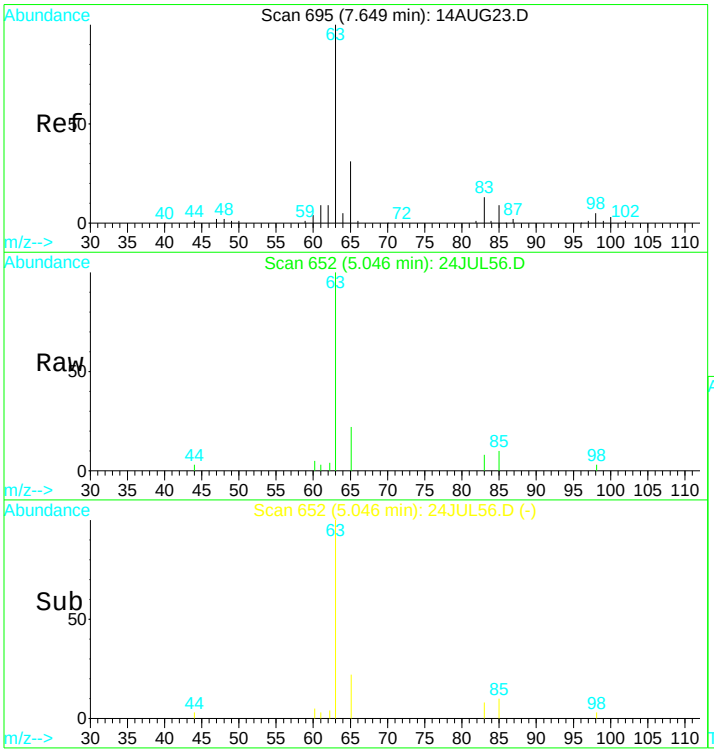


#12
T-1,2-dichloroethene
Concen: 0.29 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion: 96 Resp: 2588

Ion	Ratio	Lower	Upper
96	100		
61	195.8	129.4	240.4
98	53.7	41.5	77.1
63	52.0	39.3	73.1

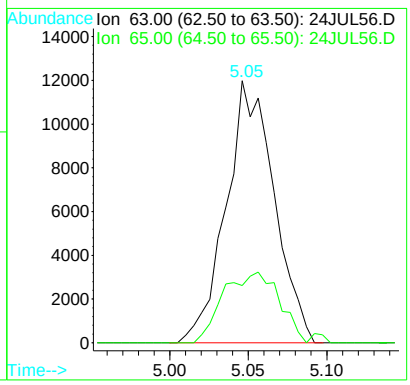


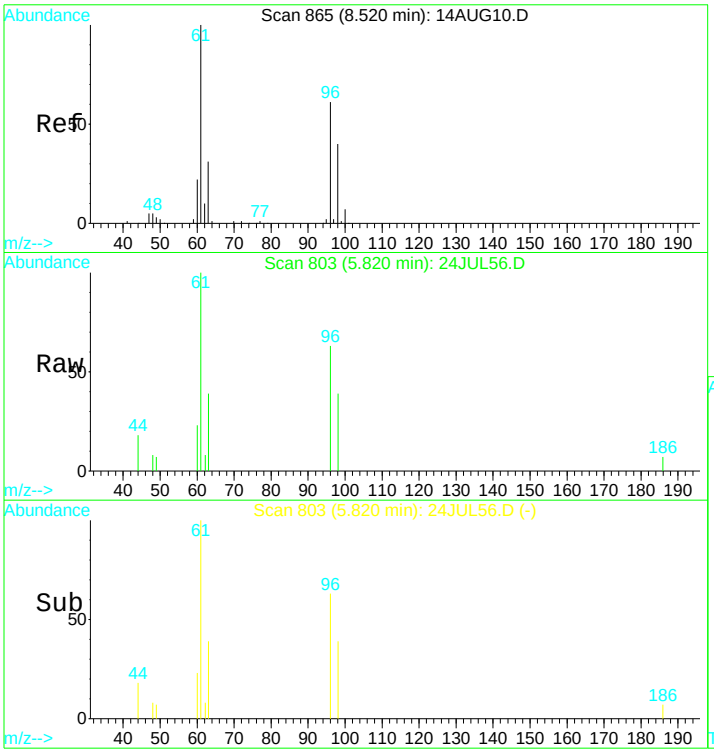


#13
1,1-Dichloroethane
Concen: 1.33 ug/L
RT: 5.05 min Scan# 652
Delta R.T. -0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion: 63 Resp: 25441

Ion	Ratio	Lower	Upper
63	100		
65	31.6	20.8	38.6

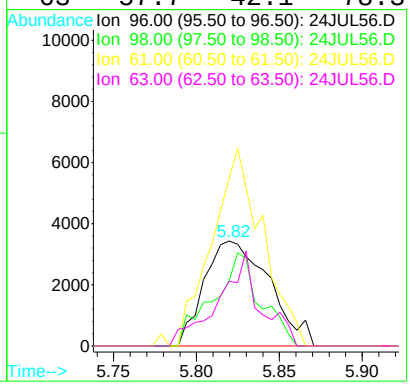


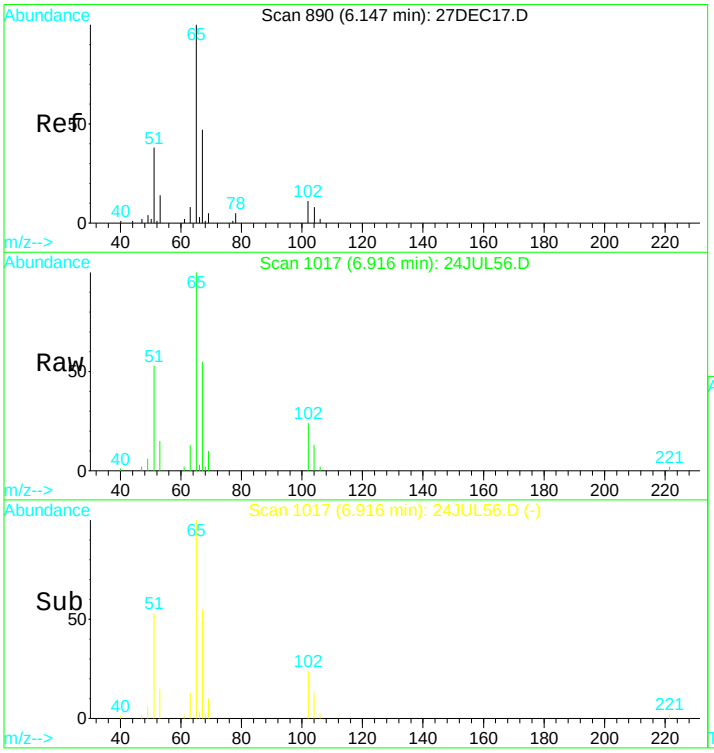


#15
Cis-1,2-dichloroethene
Concen: 1.00 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion: 96 Resp: 9357

Ion	Ratio	Lower	Upper
96	100		
98	64.7	51.9	96.3
61	148.1	122.8	228.0
63	57.7	42.1	78.3

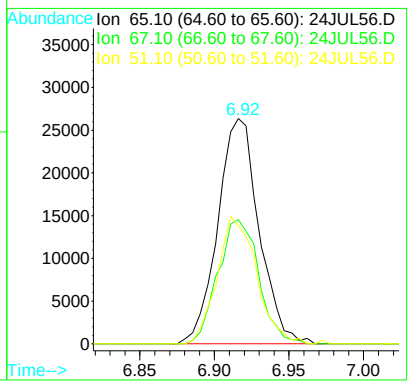


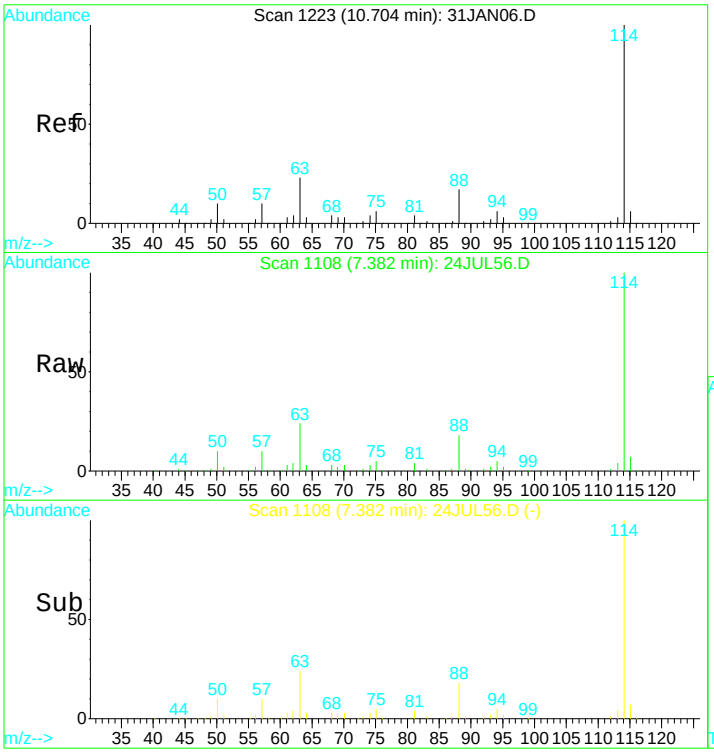


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion: 65 Resp: 50637

Ion	Ratio	Lower	Upper
65	100		
67	54.6	36.2	67.2
51	54.0	42.0	78.0

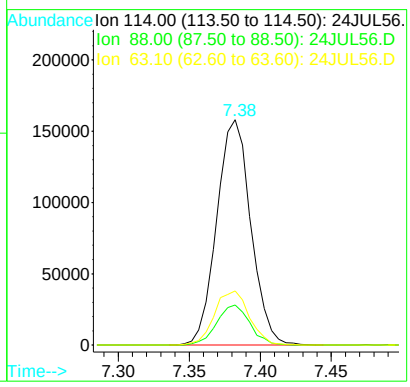


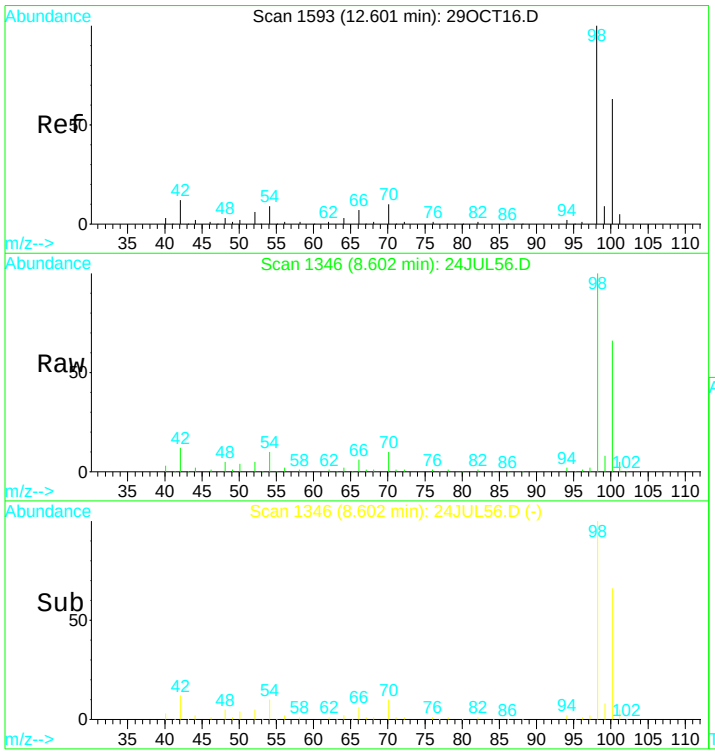


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion:114 Resp: 264121

Ion	Ratio	Lower	Upper
114	100		
88	17.3	11.7	21.7
63	24.6	16.7	30.9

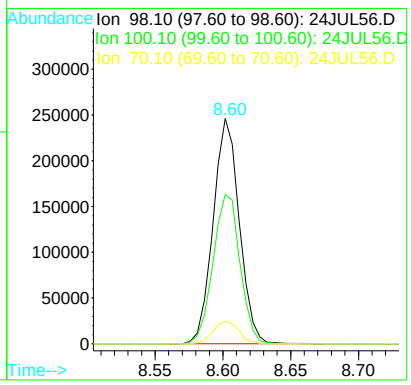


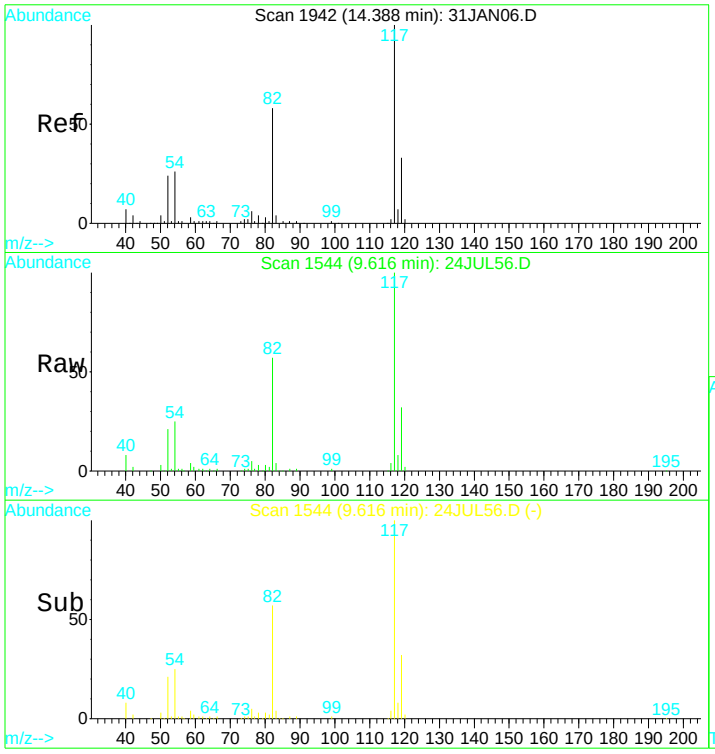


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion: 98 Resp: 330693

Ion	Ratio	Lower	Upper
98	100		
100	68.2	49.7	92.3
70	9.9	7.3	13.7

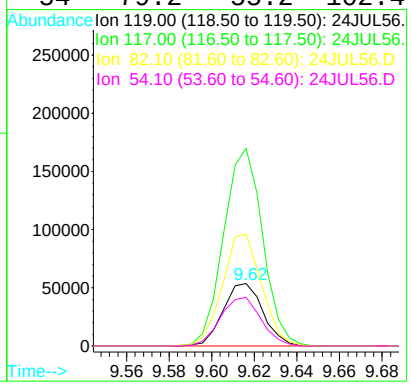


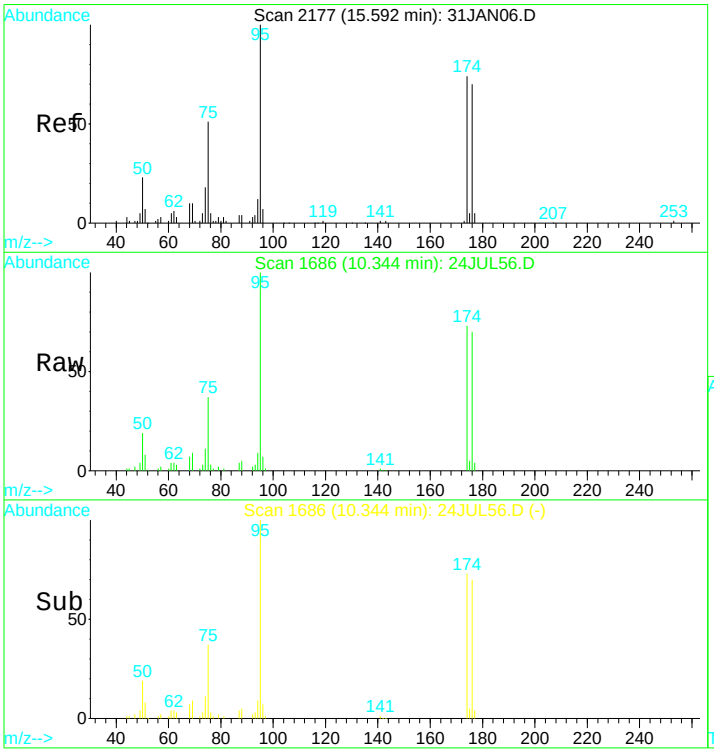


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion:119 Resp: 70197

Ion	Ratio	Lower	Upper
119	100		
117	308.3	214.5	398.4
82	175.0	117.7	218.7
54	79.2	55.2	102.4

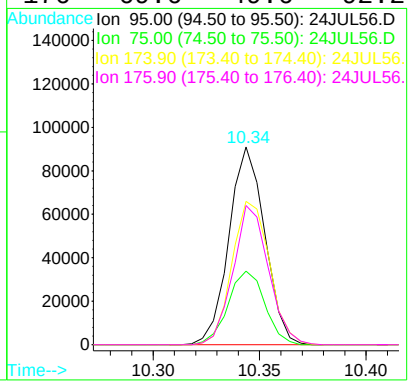




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL56.D
Acq: 25 Jul 2017 1:48 am

Tgt Ion: 95 Resp: 106755

Ion	Ratio	Lower	Upper
95	100		
75	38.1	29.5	54.7
174	75.7	52.3	97.1
176	69.6	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL56.D Vial: 56
Acq On : 25 Jul 2017 1:48 am Operator: MGC
Sample : 1720018-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:33 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	178961	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	264121	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	70197	10.00	ug/L	0.00

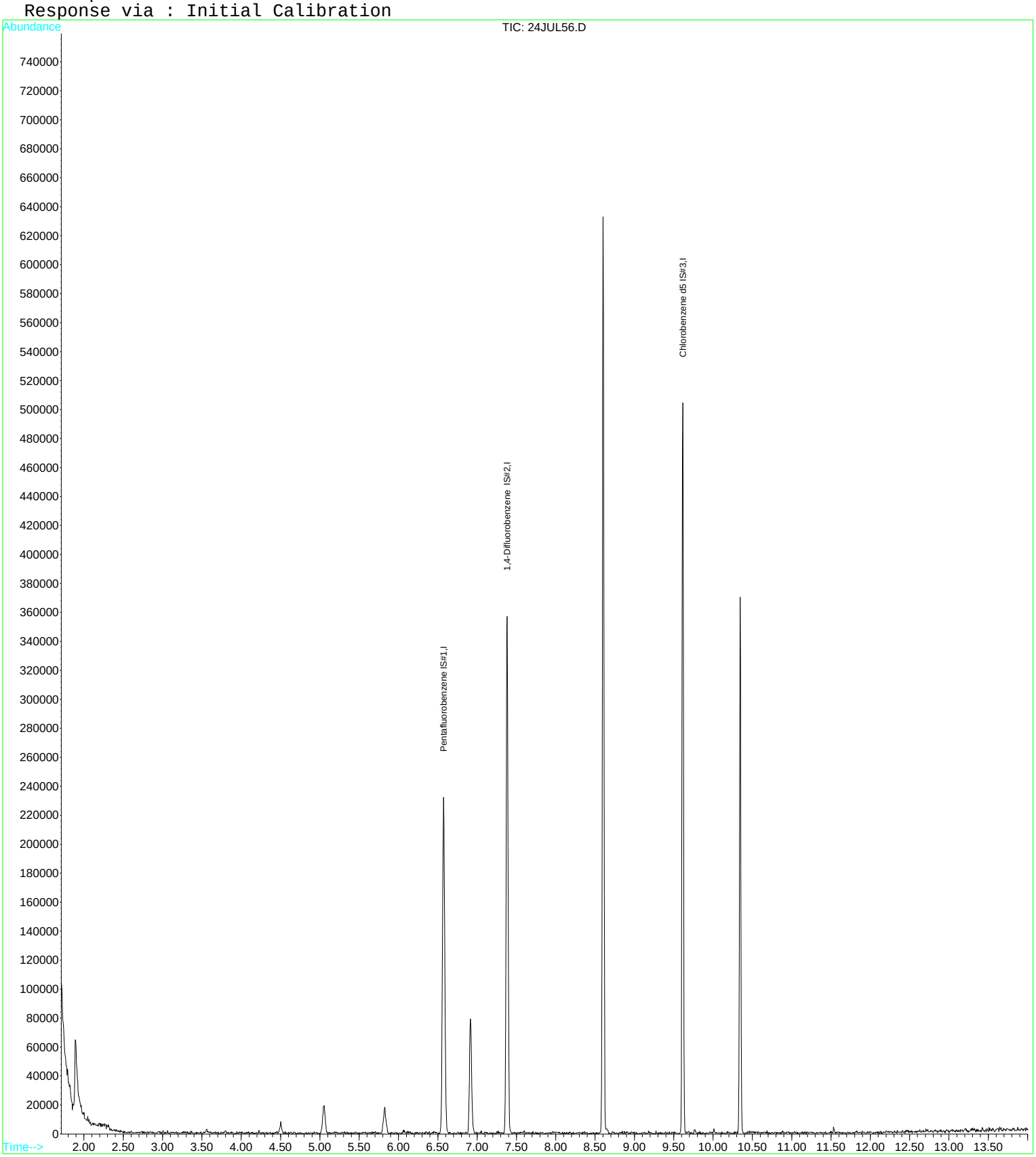
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL56.D Vial: 56
Acq On : 25 Jul 2017 1:48 am Operator: MGC
Sample : 1720018-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:33 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL26.D Vial: 26
Acq On : 24 Jul 2017 2:17 pm Operator: MGC
Sample : 1720018-08 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:08 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	182457	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	279624	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	74192	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52033	9.76	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 97.60%			
31) Toluene d8 SMC#2	8.60	98	341043	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.80%			
49) Bromofluorobenzene SMC#3	10.34	95	113081	10.21	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.10%			

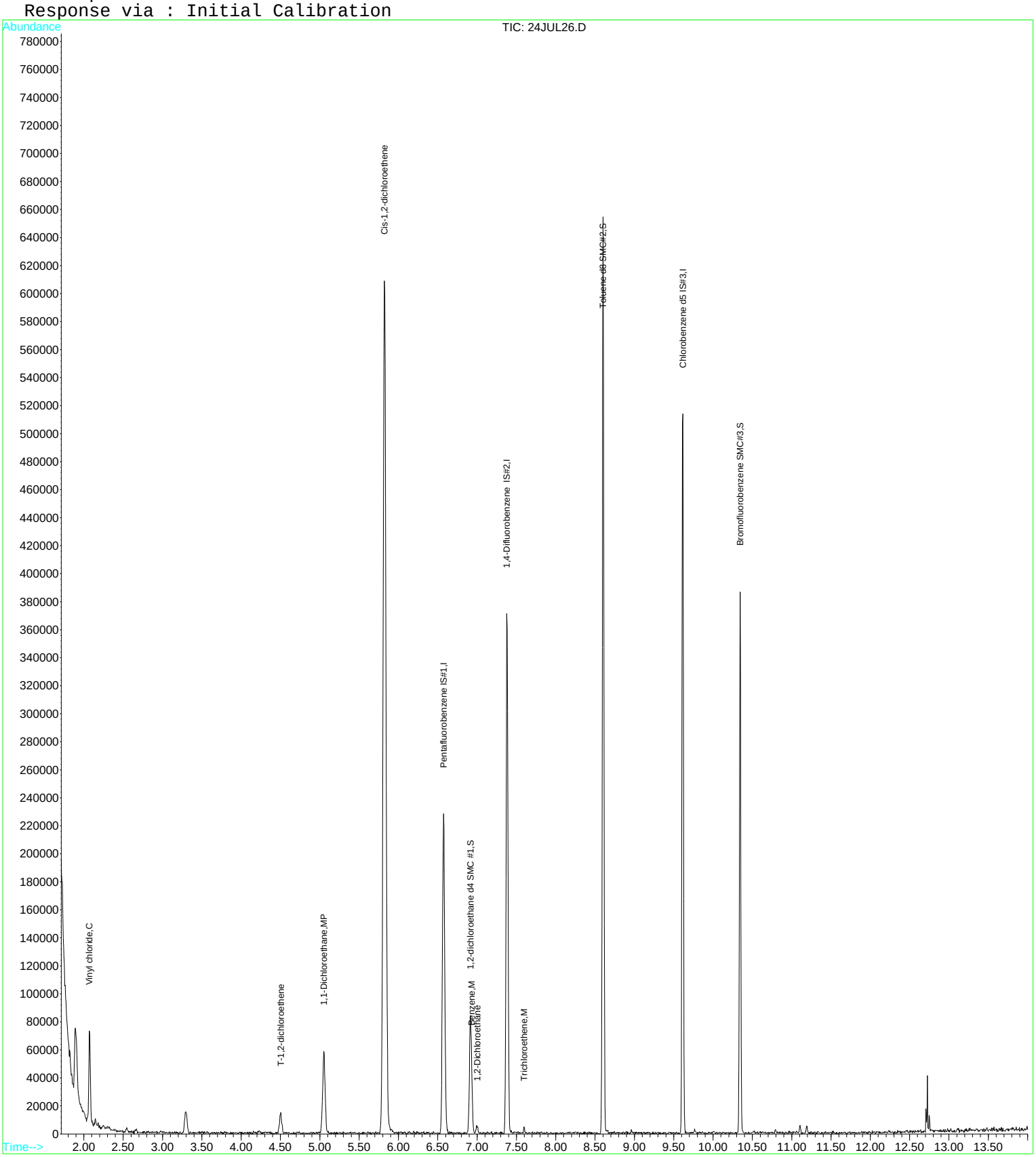
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	58429	4.27	ug/L	82
12) T-1,2-dichloroethene	4.50	96	5727	0.63	ug/L	93
13) 1,1-Dichloroethane	5.05	63	72405	3.71	ug/L	98
15) Cis-1,2-dichloroethene	5.82	96	343131	36.01	ug/L	86
22) 1,2-Dichloroethane	7.00	62	4725	0.64	ug/L	96
23) Benzene	6.94	78	9399	0.25	ug/L #	1
25) Trichloroethene	7.60	130	1246	0.13	ug/L #	72

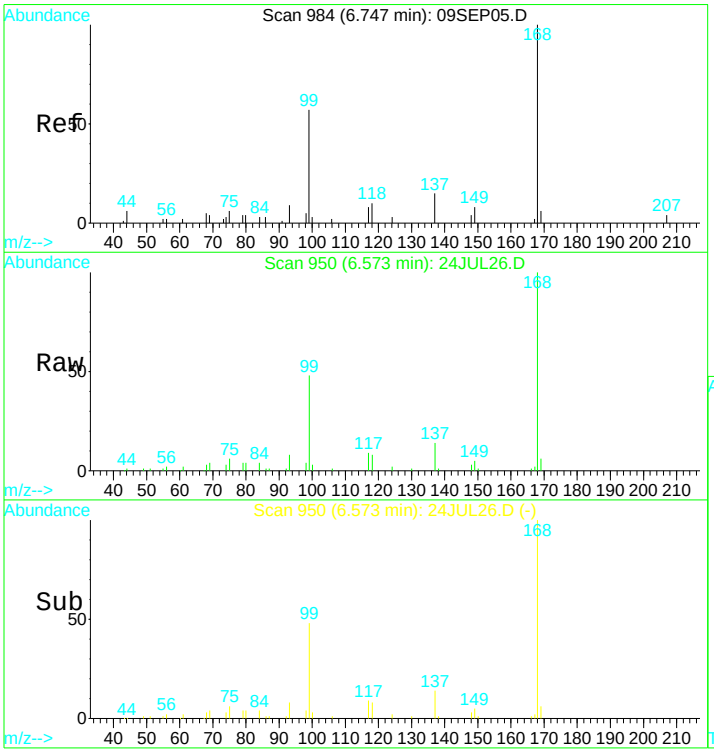
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL26.D Vial: 26
Acq On : 24 Jul 2017 2:17 pm Operator: MGC
Sample : 1720018-08 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:08 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

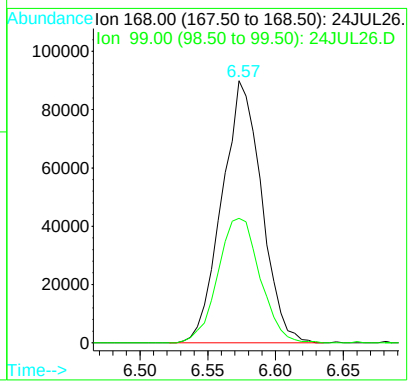


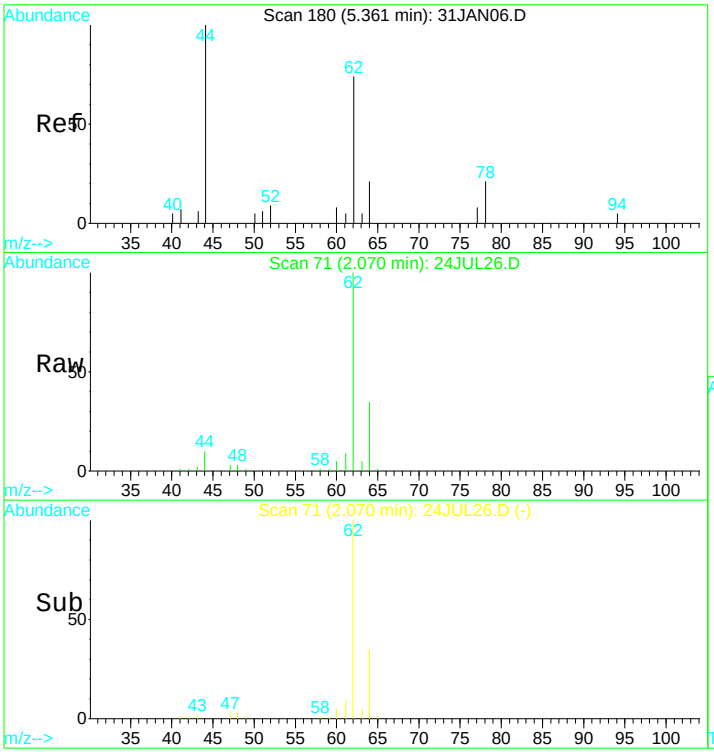


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:168 Resp: 182457

Ion	Ratio	Lower	Upper
168	100		
99	50.7	38.7	71.9

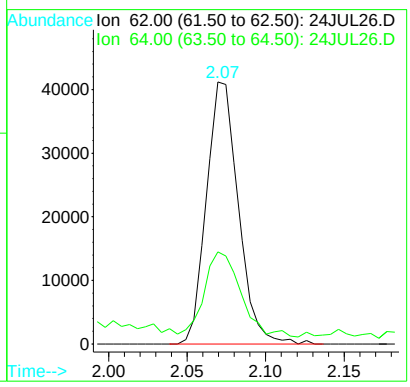


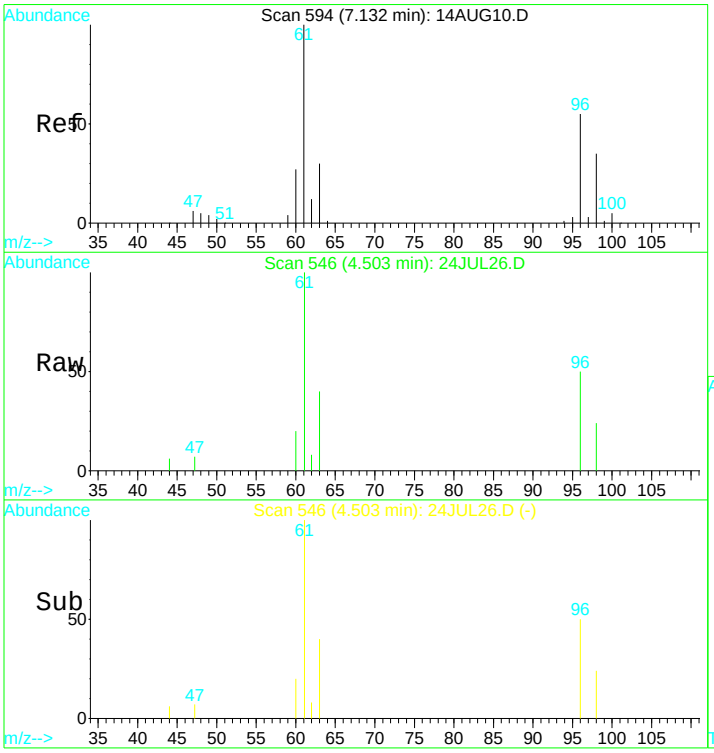


#4
Vinyl chloride
Concen: 4.27 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 62 Resp: 58429

Ion	Ratio	Lower	Upper
62	100		
64	42.8	39.3	72.9

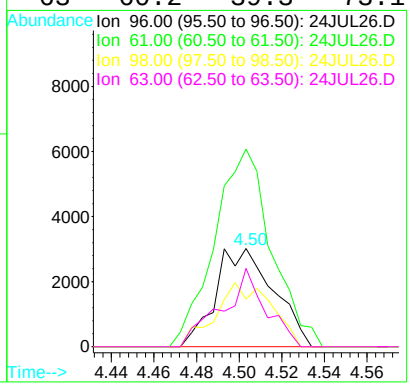


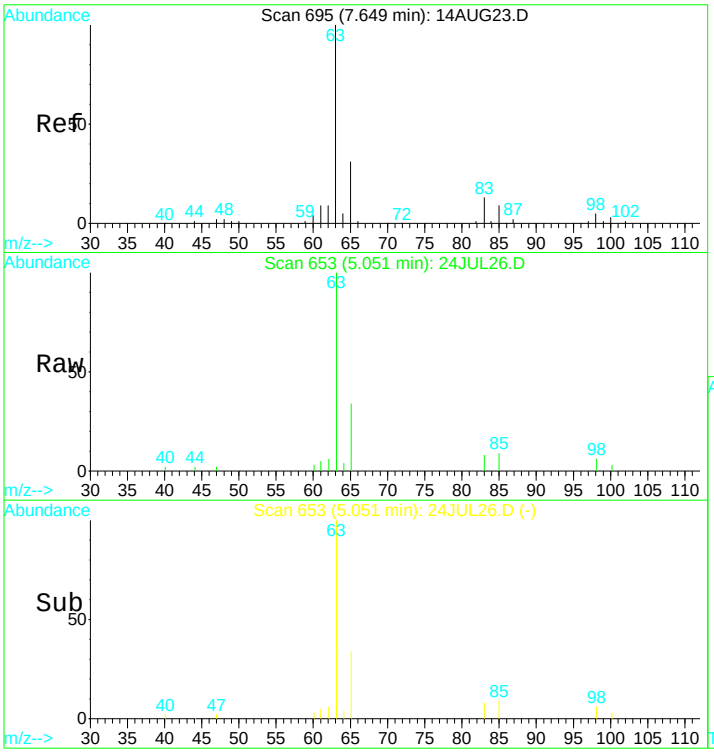


#12
T-1,2-dichloroethene
Concen: 0.63 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 96 Resp: 5727

Ion	Ratio	Lower	Upper
96	100		
61	197.7	129.4	240.4
98	62.6	41.5	77.1
63	60.2	39.3	73.1

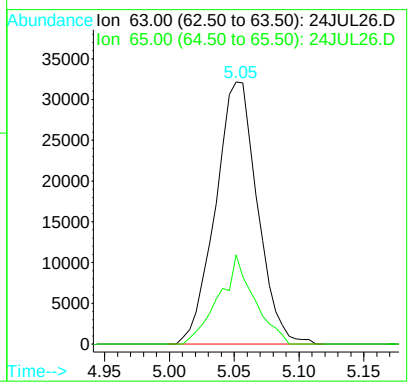


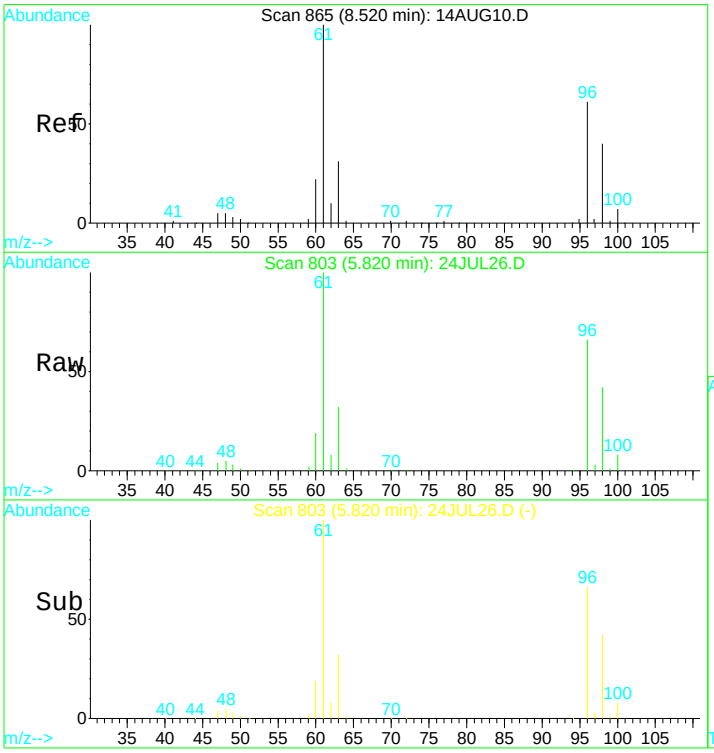


#13
1,1-Dichloroethane
Concen: 3.71 ug/L
RT: 5.05 min Scan# 653
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 63 Resp: 72405

Ion	Ratio	Lower	Upper
63	100		
65	28.7	20.8	38.6

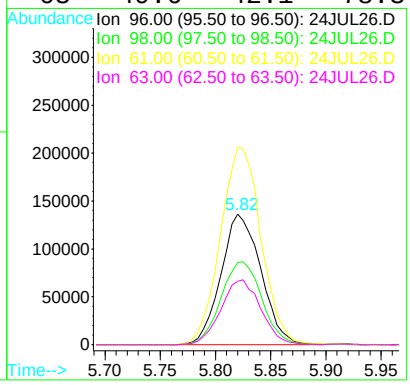


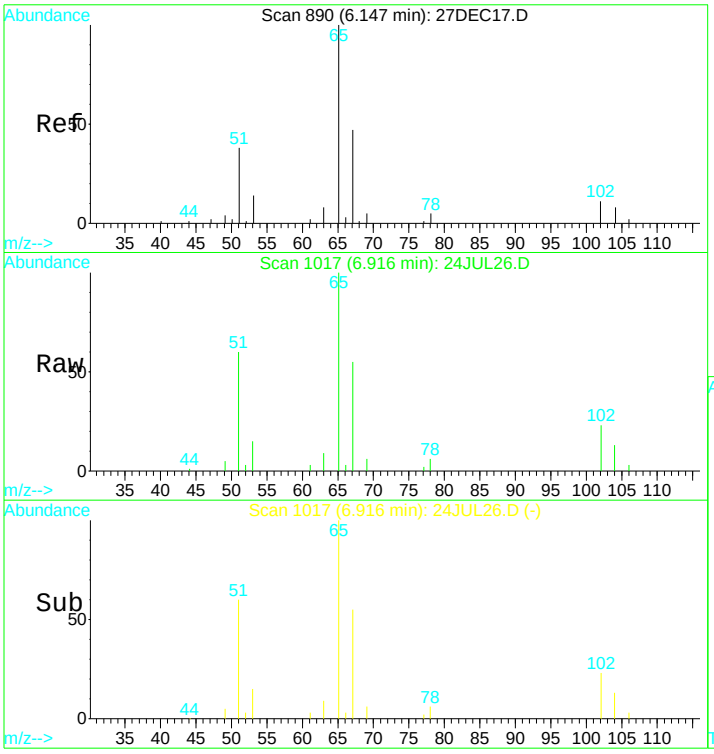


#15
Cis-1,2-dichloroethene
Concen: 36.01 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 96 Resp: 343131

Ion	Ratio	Lower	Upper
96	100		
98	64.8	51.9	96.3
61	153.5	122.8	228.0
63	49.6	42.1	78.3

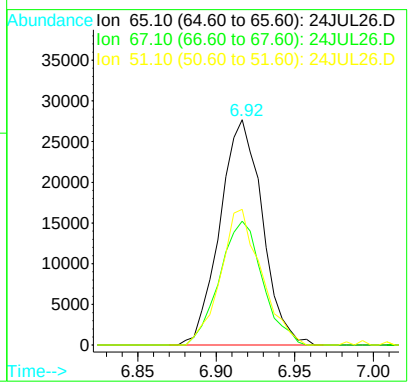


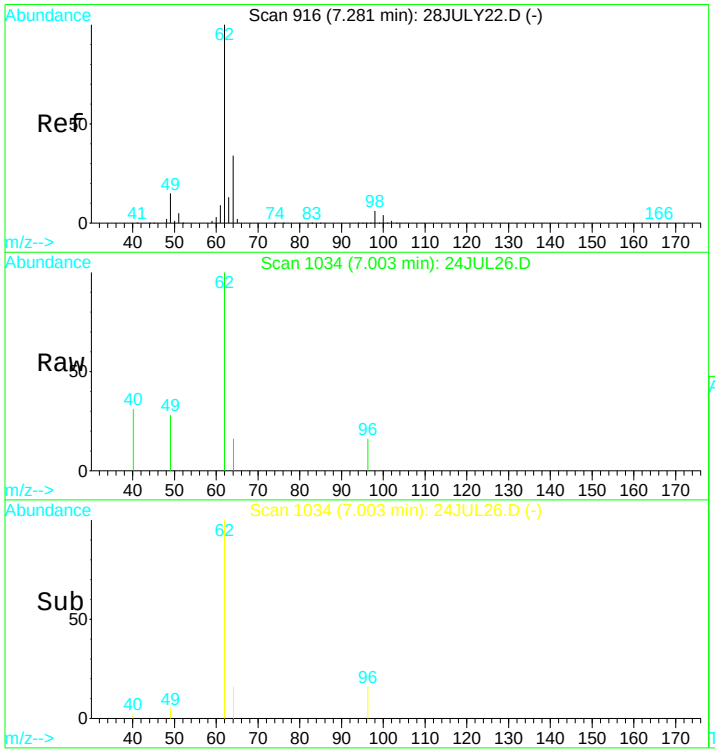


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 65 Resp: 52033

Ion	Ratio	Lower	Upper
65	100		
67	55.6	36.2	67.2
51	57.8	42.0	78.0

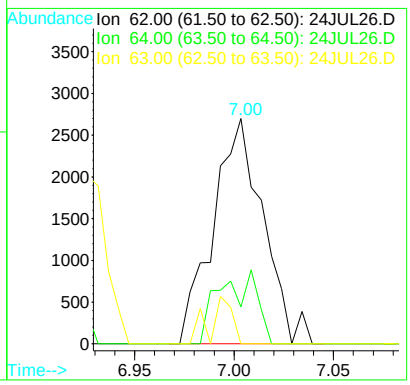


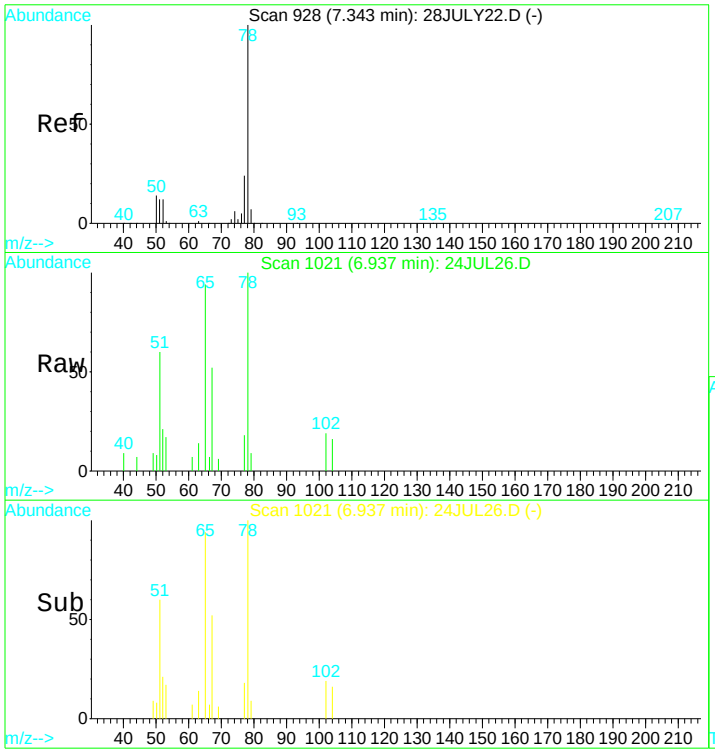


#22
1,2-Dichloroethane
Concen: 0.64 ug/L
RT: 7.00 min Scan# 1034
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 62 Resp: 4725

Ion	Ratio	Lower	Upper
62	100		
64	24.5	18.8	35.0
63	9.3	5.8	10.8

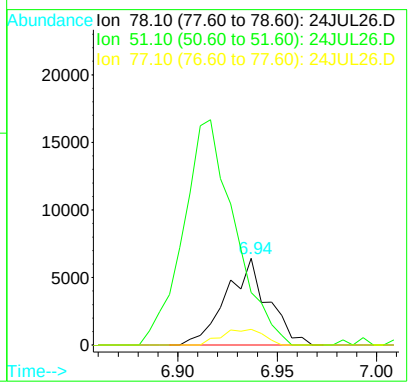


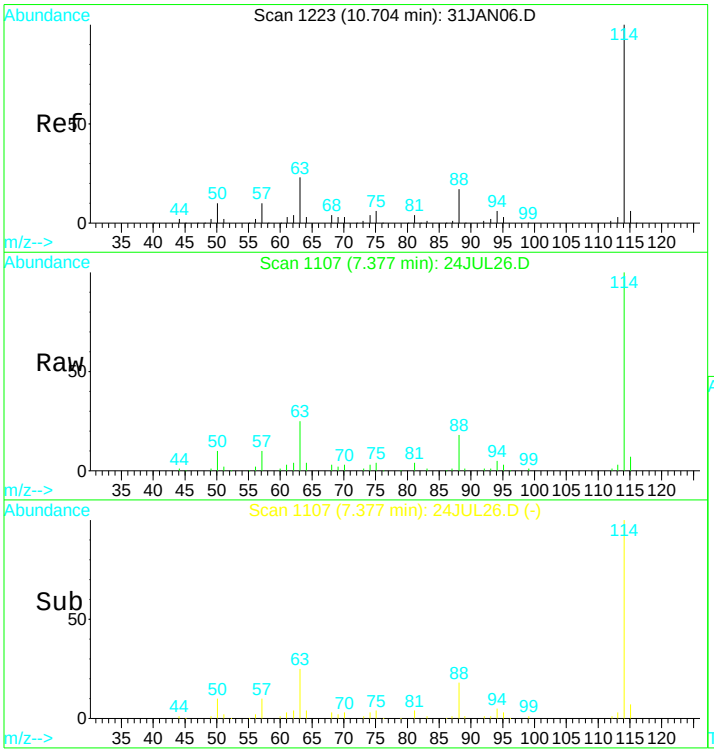


#23
Benzene
Concen: 0.25 ug/L
RT: 6.94 min Scan# 1021
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 78 Resp: 9399

Ion	Ratio	Lower	Upper
78	100		
51	319.8	114.8	213.2#
77	18.3	15.2	28.2

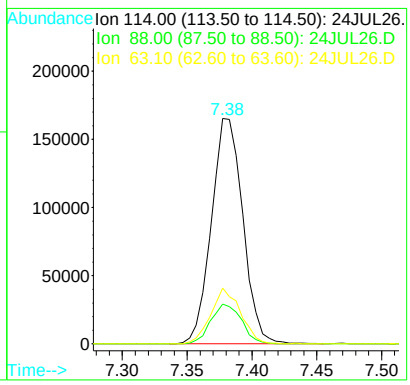


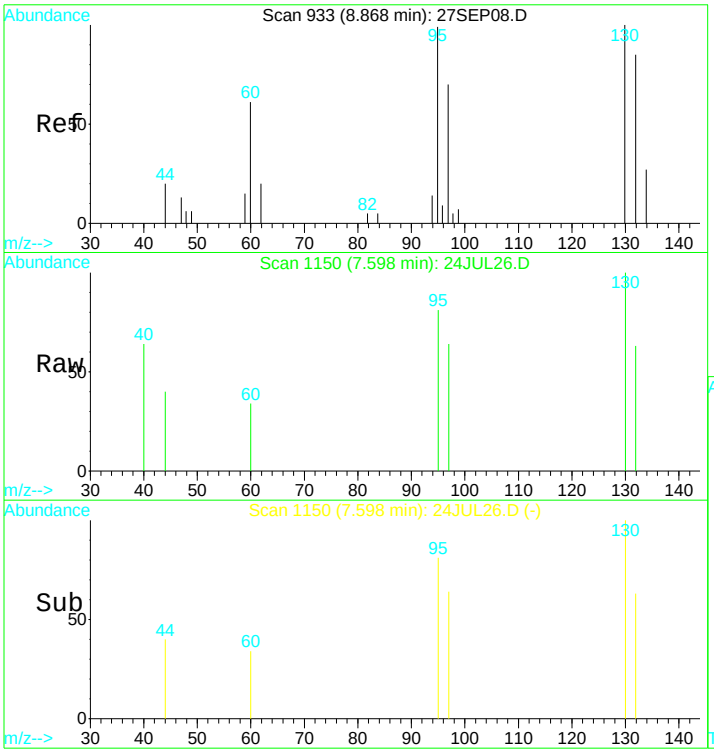


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:114 Resp: 279624

Ion	Ratio	Lower	Upper
114	100		
88	17.2	11.7	21.7
63	23.4	16.7	30.9

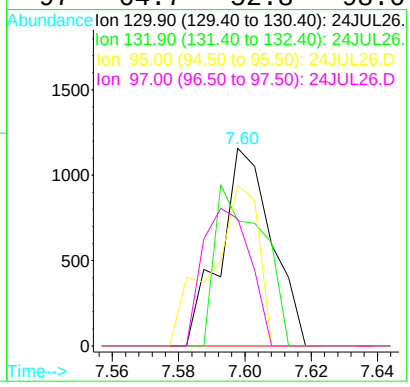


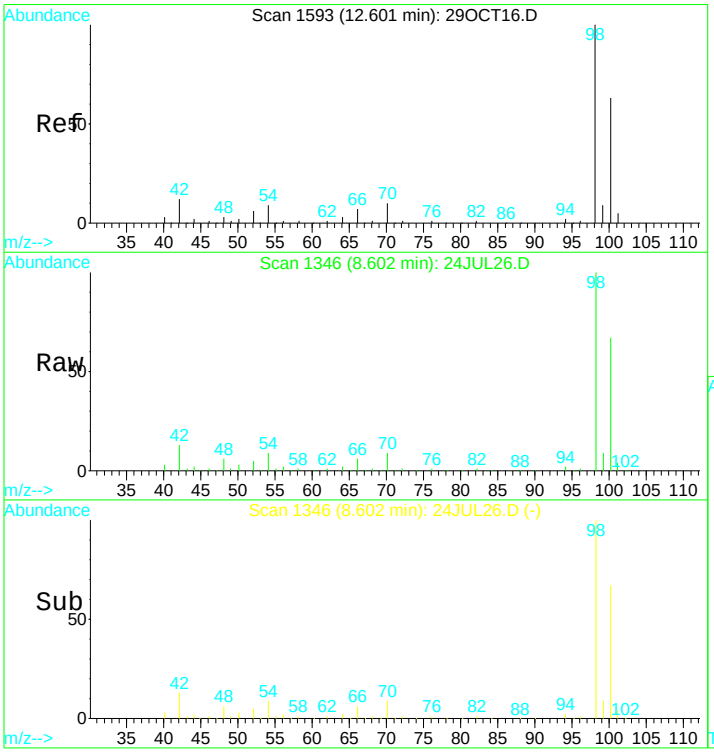


#25
Trichloroethene
Concen: 0.13 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:130 Resp: 1246

Ion	Ratio	Lower	Upper
130	100		
132	74.0	66.1	122.7
95	75.6	86.1	159.9#
97	64.7	52.8	98.0

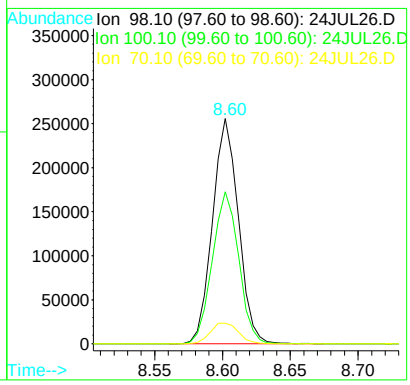


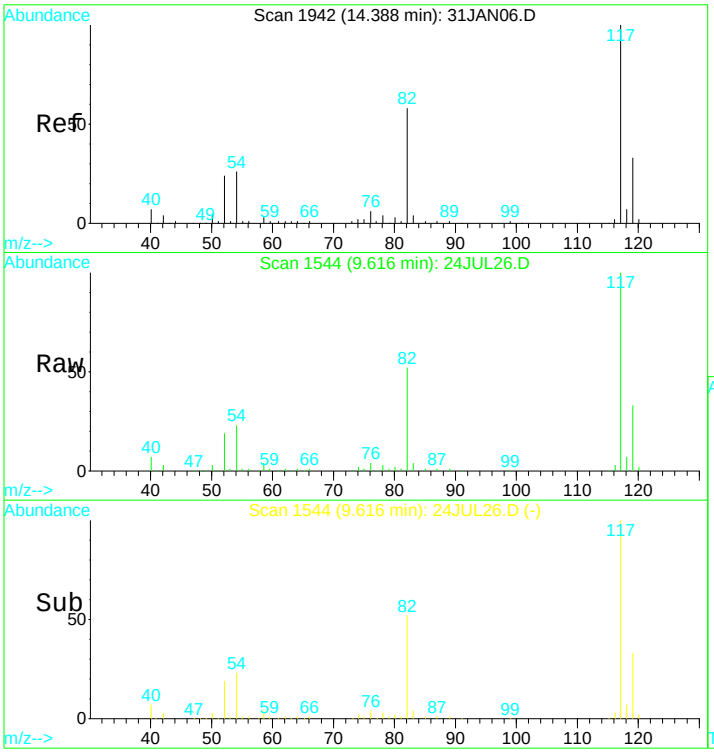


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 98 Resp: 341043

Ion	Ratio	Lower	Upper
98	100		
100	68.5	49.7	92.3
70	10.1	7.3	13.7

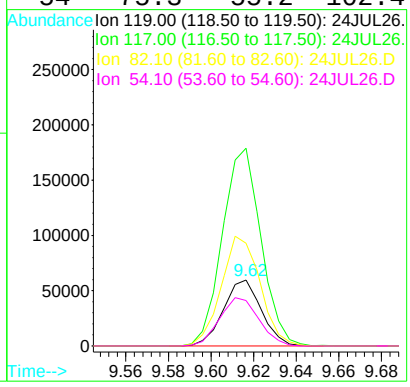


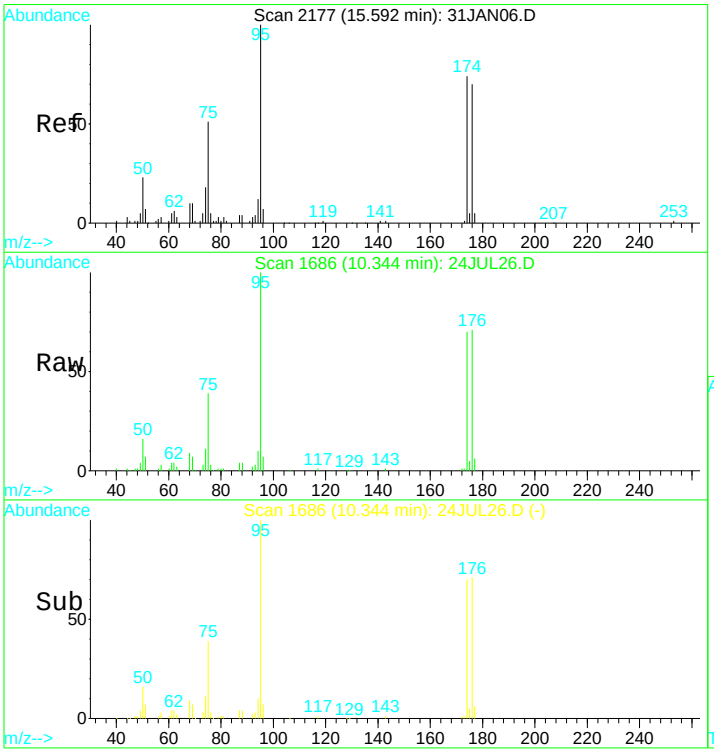


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:119 Resp: 74192

Ion	Ratio	Lower	Upper
119	100		
117	305.0	214.5	398.4
82	170.3	117.7	218.7
54	75.3	55.2	102.4

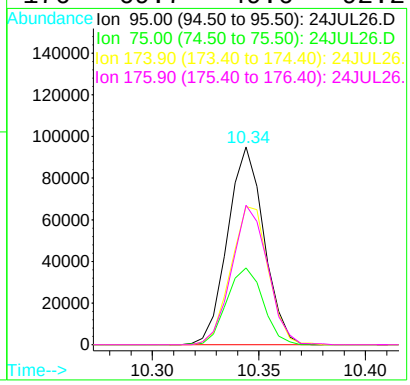




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 95 Resp: 113081

Ion	Ratio	Lower	Upper
95	100		
75	38.7	29.5	54.7
174	71.6	52.3	97.1
176	69.7	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL26.D Vial: 26
Acq On : 24 Jul 2017 2:17 pm Operator: MGC
Sample : 1720018-08 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:09 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	182457	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	279624	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74192	10.00	ug/L	0.00

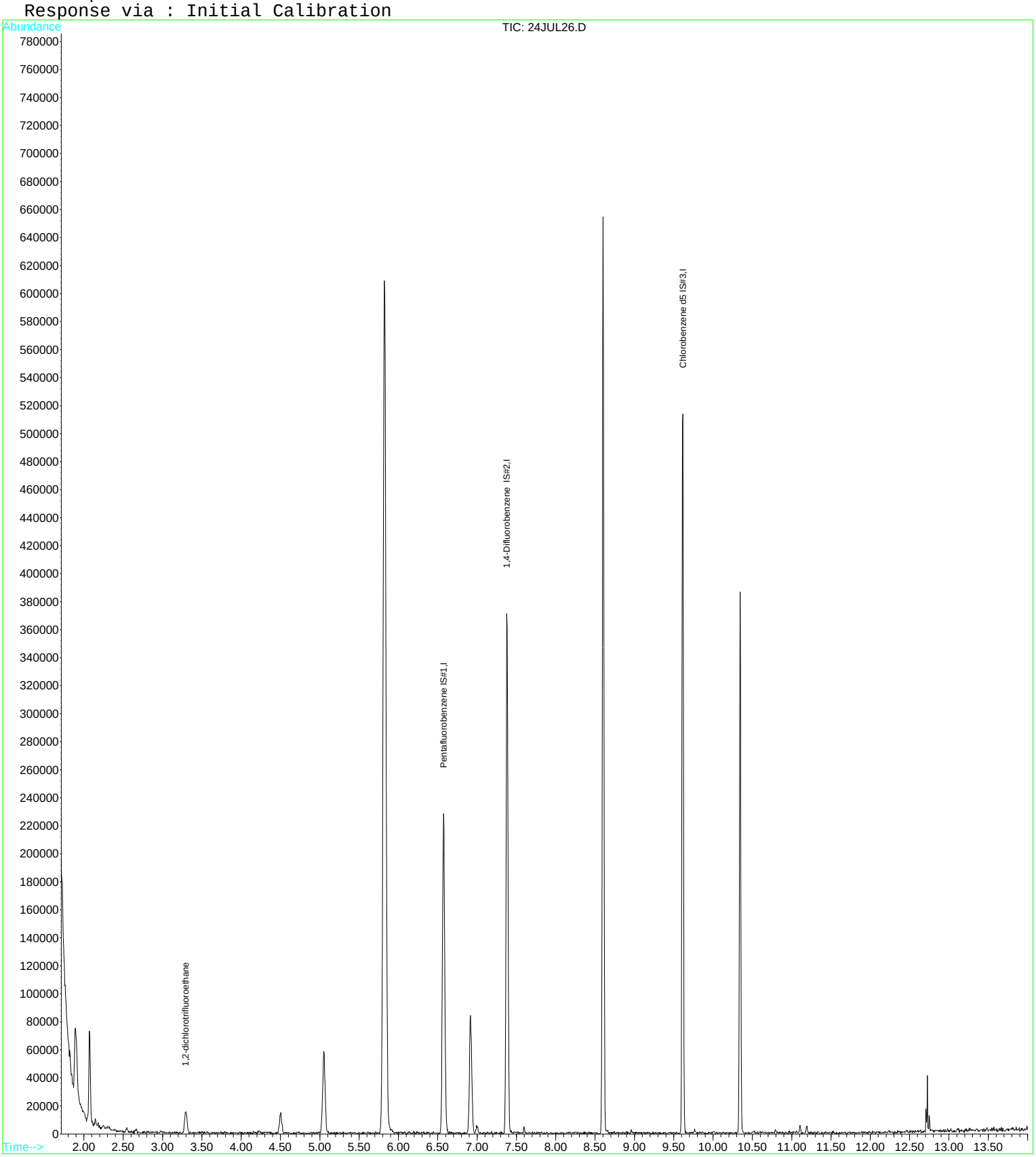
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.29	67	11236	0.93	ug/L #	76

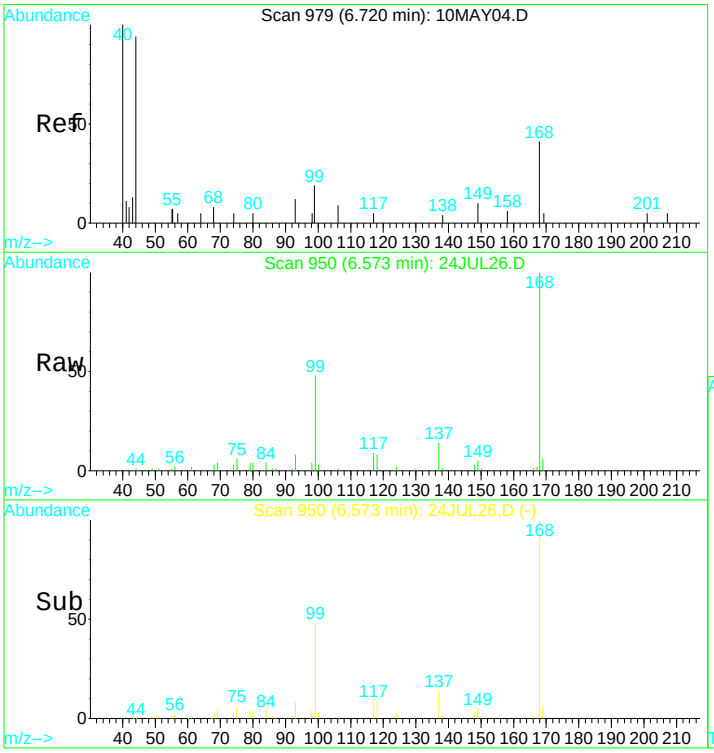
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL26.D Vial: 26
Acq On : 24 Jul 2017 2:17 pm Operator: MGC
Sample : 1720018-08 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:09 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration

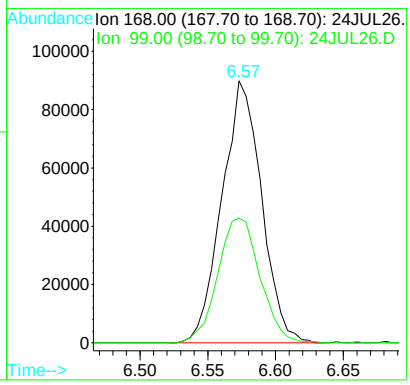


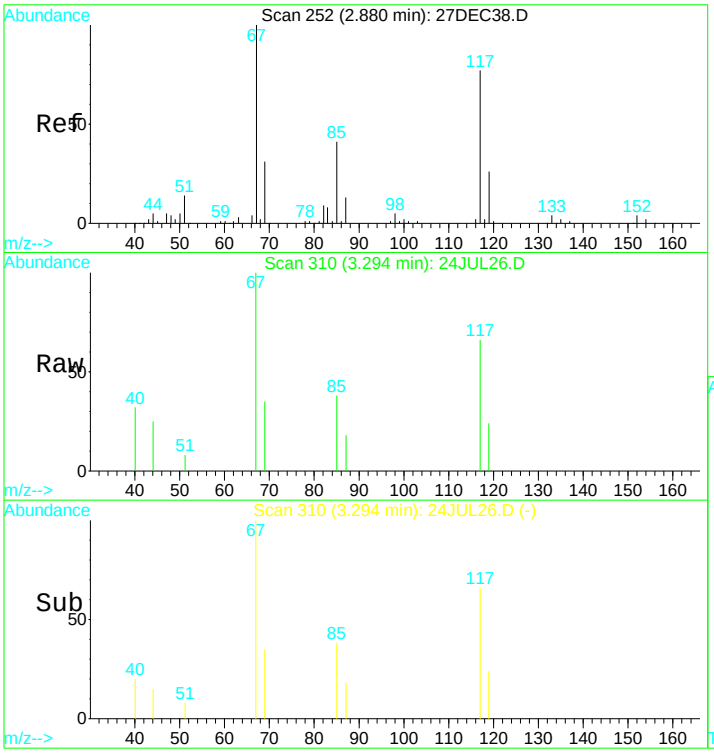


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:168 Resp: 182457

Ion	Ratio	Lower	Upper
168	100		
99	50.7	36.1	67.1

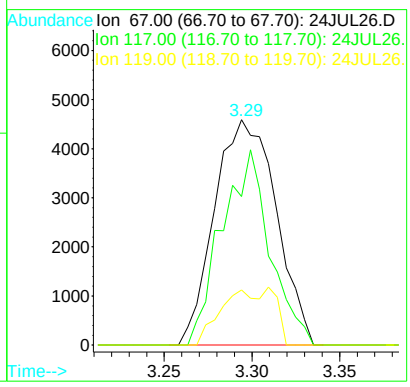


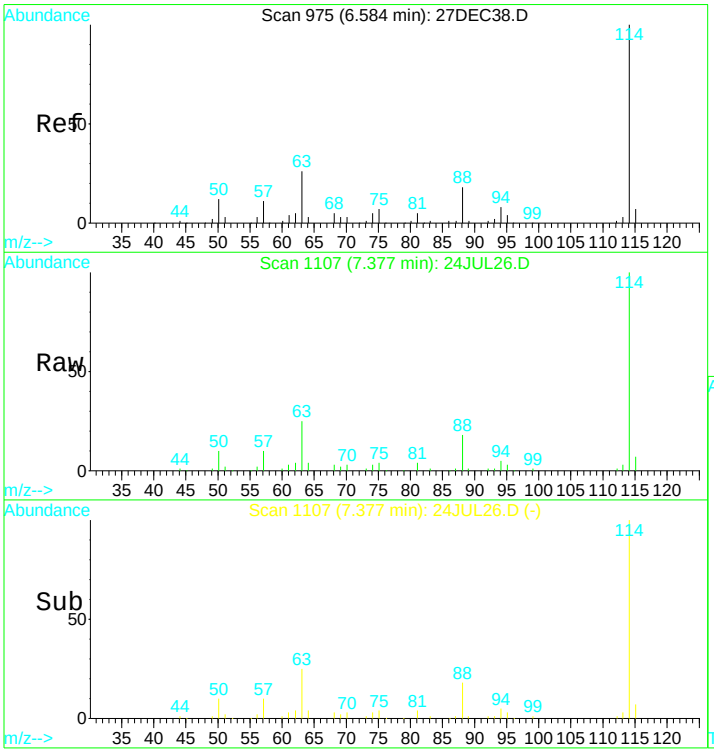


#4
1,2-dichlorotrifluoroethane
Concen: 0.93 ug/L
RT: 3.29 min Scan# 310
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion: 67 Resp: 11236

Ion	Ratio	Lower	Upper
67	100		
117	67.5	36.7	68.1
119	21.6	5.9	10.9#

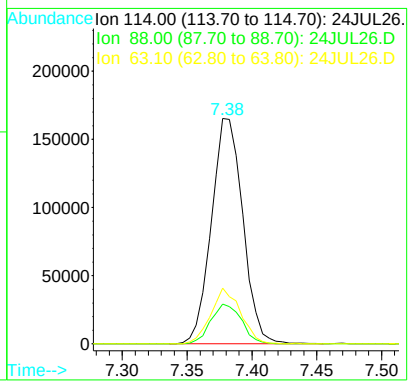


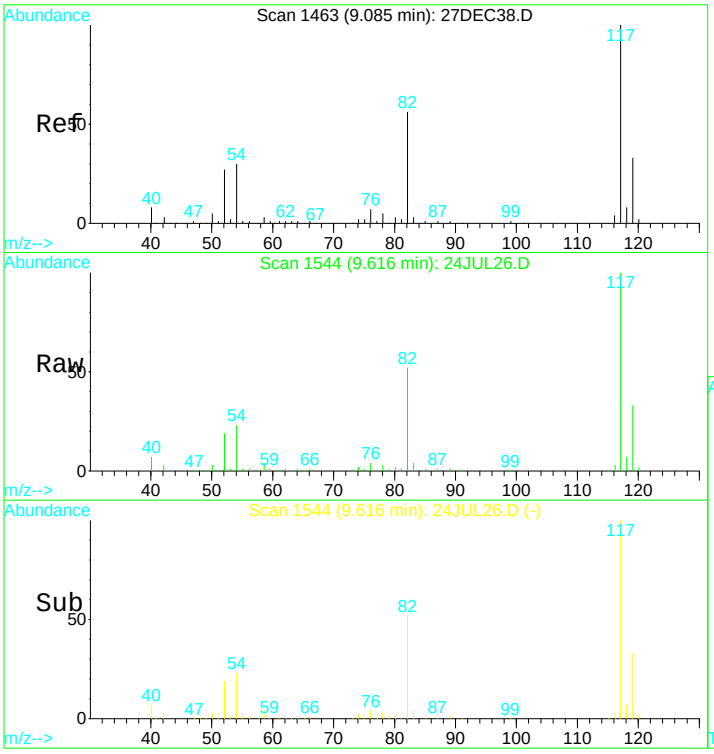


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:114 Resp: 279624

Ion	Ratio	Lower	Upper
114	100		
88	17.2	11.1	20.7
63	23.4	16.4	30.4

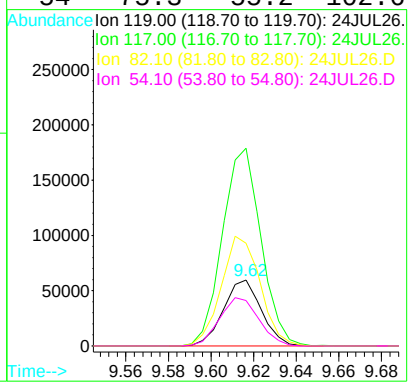




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL26.D
Acq: 24 Jul 2017 2:17 pm

Tgt Ion:119 Resp: 74192

Ion	Ratio	Lower	Upper
119	100		
117	305.0	217.1	403.3
82	170.3	122.7	227.9
54	75.3	55.2	102.6



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL57.D Vial: 57
Acq On : 25 Jul 2017 2:11 am Operator: MGC
Sample : 1720018-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 2:25 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171481	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	258688	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	67484	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50820	10.15	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.50%			
31) Toluene d8 SMC#2	8.60	98	313987	9.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.30%			
49) Bromofluorobenzene SMC#3	10.35	95	101575	10.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.80%			

Target Compounds

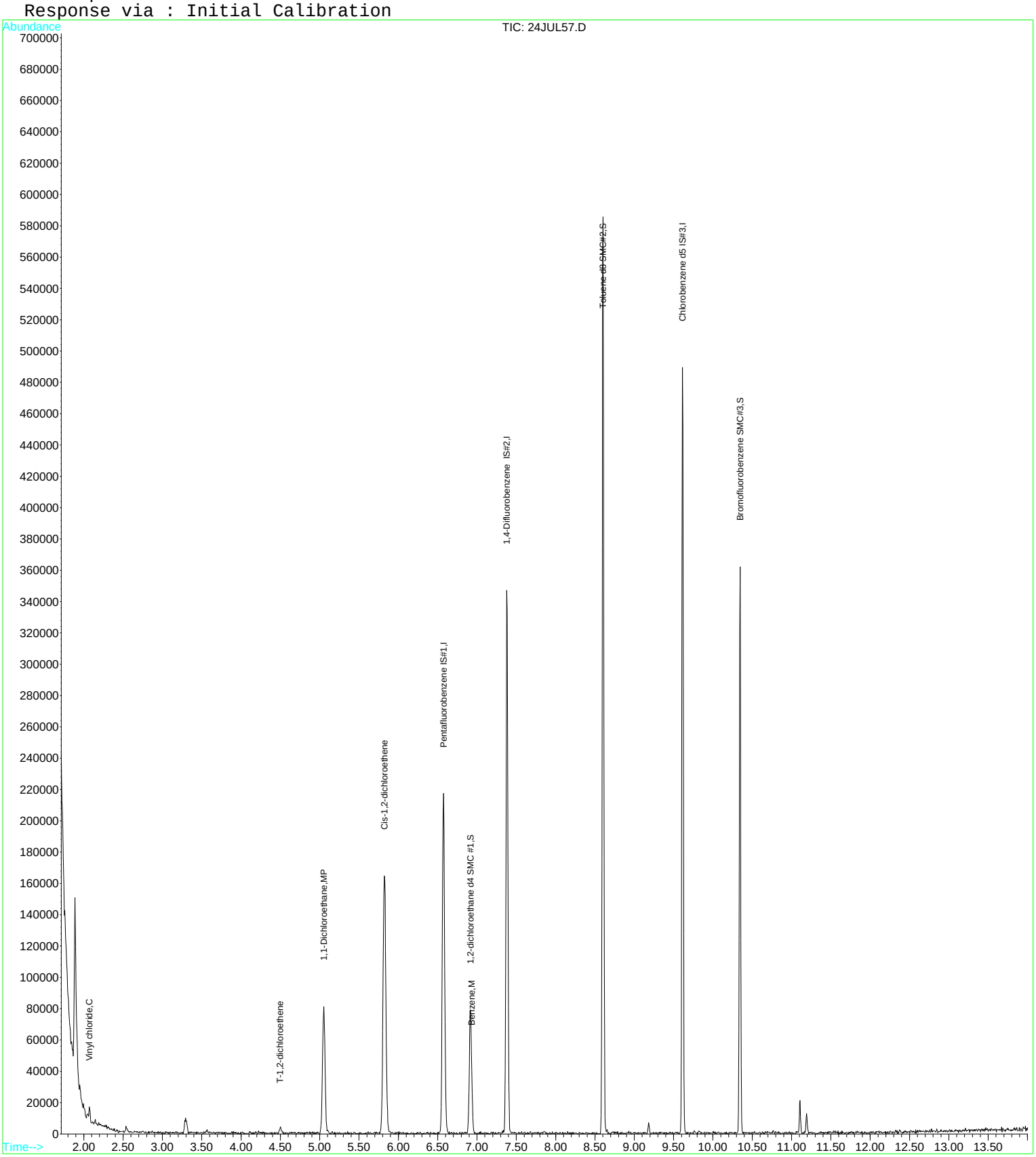
						Qvalue
4) Vinyl chloride	2.07	62	6901	0.54	ug/L #	23
12) T-1,2-dichloroethene	4.49	96	1800	0.21	ug/L #	75
13) 1,1-Dichloroethane	5.05	63	103208	5.62	ug/L	99
15) Cis-1,2-dichloroethene	5.82	96	94044	10.50	ug/L	85
23) Benzene	6.94	78	10232	0.29	ug/L #	33

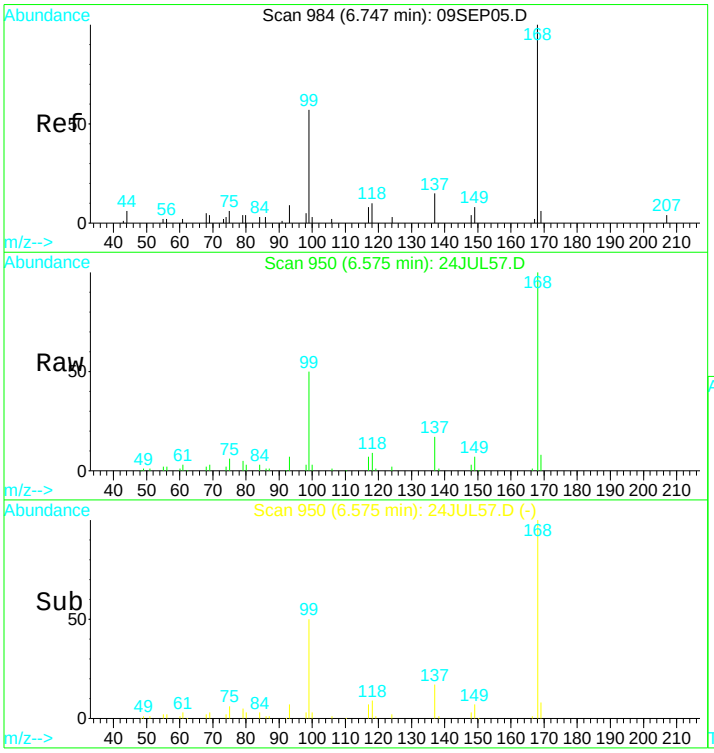
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL57.D Vial: 57
Acq On : 25 Jul 2017 2:11 am Operator: MGC
Sample : 1720018-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 2:25 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

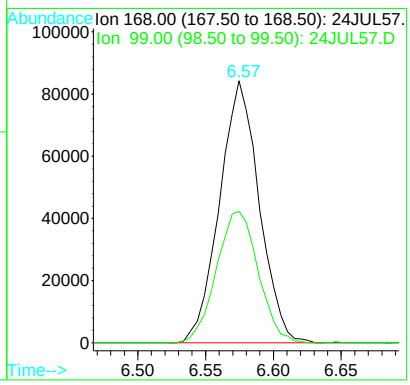


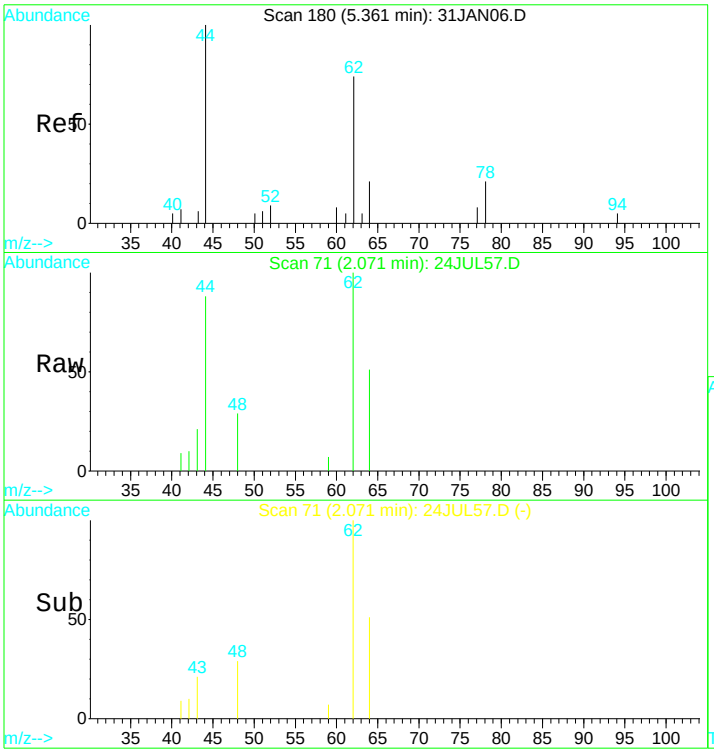


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion:168 Resp: 171481

Ion	Ratio	Lower	Upper
168	100		
99	52.8	38.7	71.9

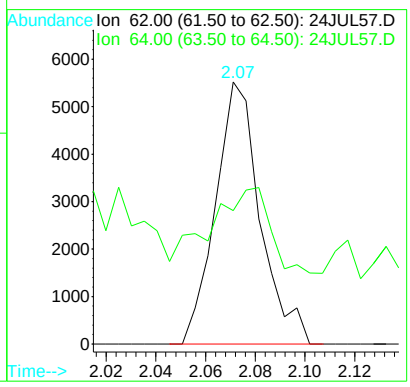


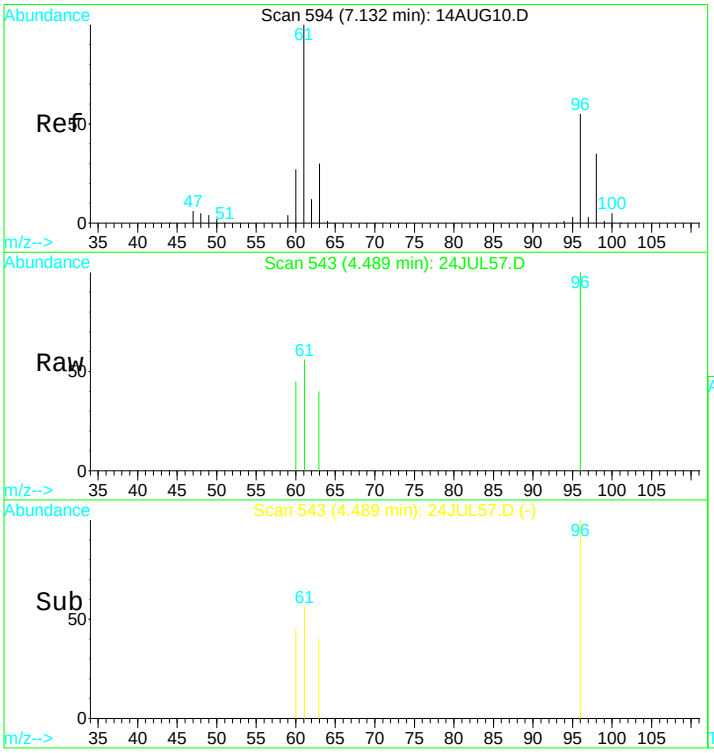


#4
Vinyl chloride
Concen: 0.54 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 62 Resp: 6901

Ion	Ratio	Lower	Upper
62	100		
64	0.0	39.3	72.9#

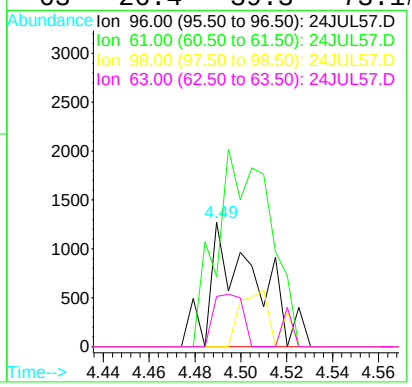


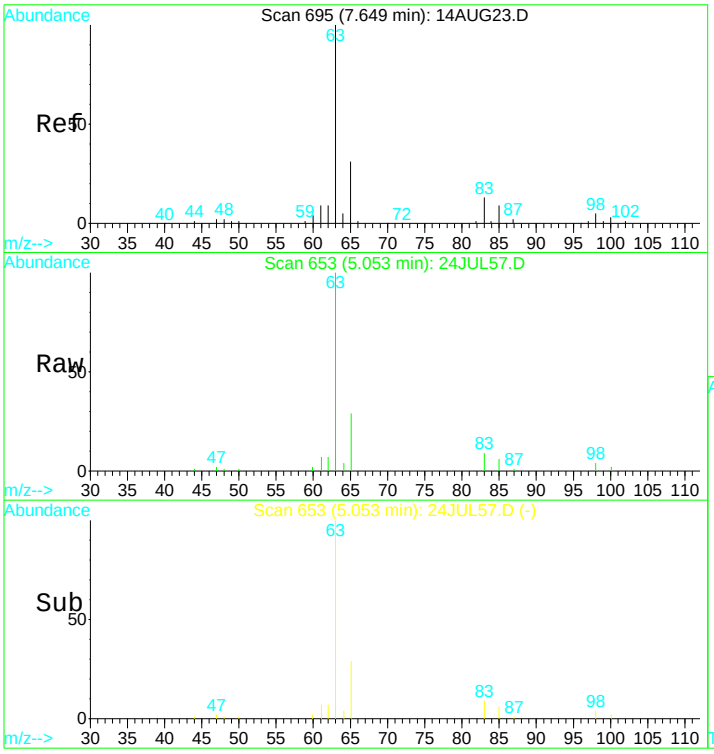


#12
T-1,2-dichloroethene
Concen: 0.21 ug/L
RT: 4.49 min Scan# 543
Delta R.T. -0.01 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 96 Resp: 1800

Ion	Ratio	Lower	Upper
96	100		
61	181.0	129.4	240.4
98	0.0	41.5	77.1#
63	26.4	39.3	73.1#

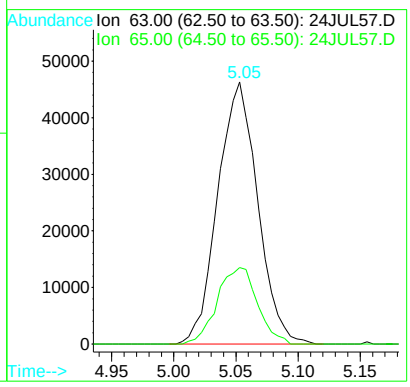


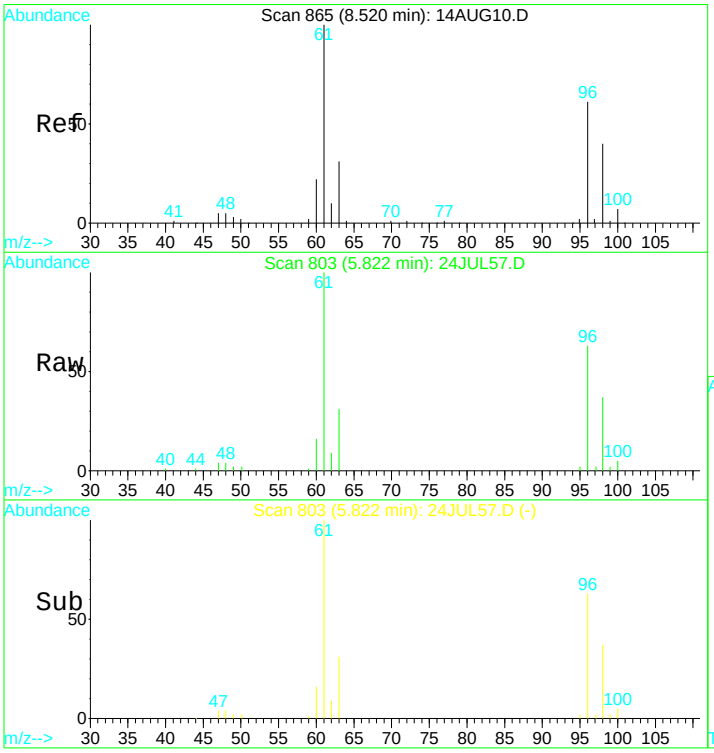


#13
1,1-Dichloroethane
Concen: 5.62 ug/L
RT: 5.05 min Scan# 653
Delta R.T. 0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 63 Resp: 103208

Ion	Ratio	Lower	Upper
63	100		
65	29.4	20.8	38.6

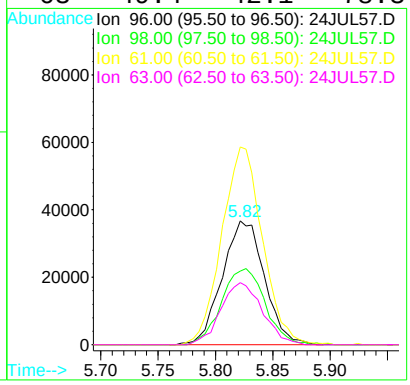


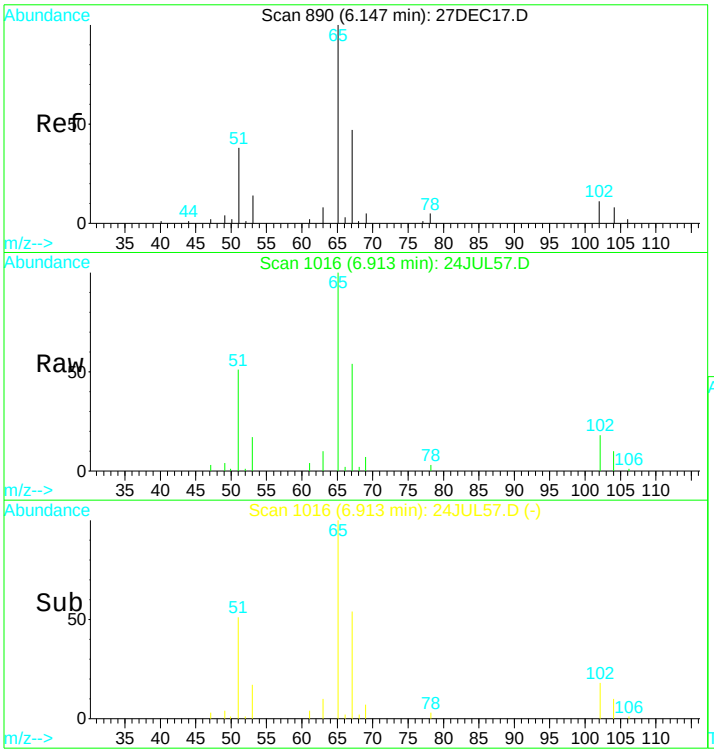


#15
Cis-1,2-dichloroethene
Concen: 10.50 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 96 Resp: 94044

Ion	Ratio	Lower	Upper
96	100		
98	63.0	51.9	96.3
61	153.6	122.8	228.0
63	49.4	42.1	78.3

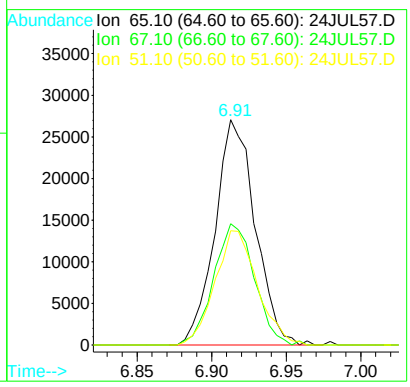


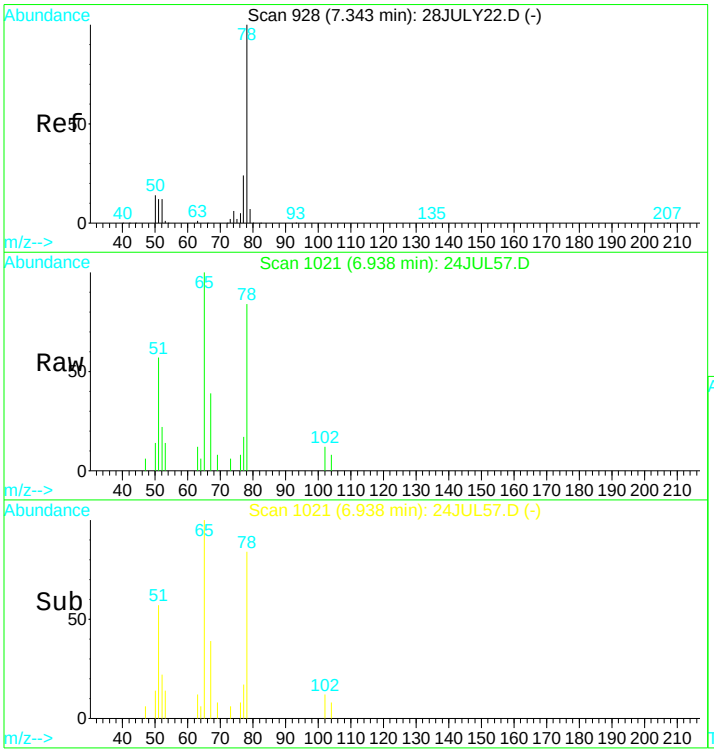


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 65 Resp: 50820

Ion	Ratio	Lower	Upper
65	100		
67	54.5	36.2	67.2
51	53.4	42.0	78.0

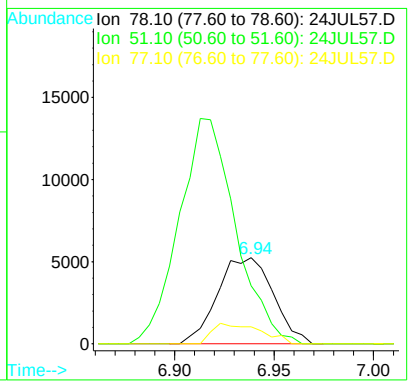


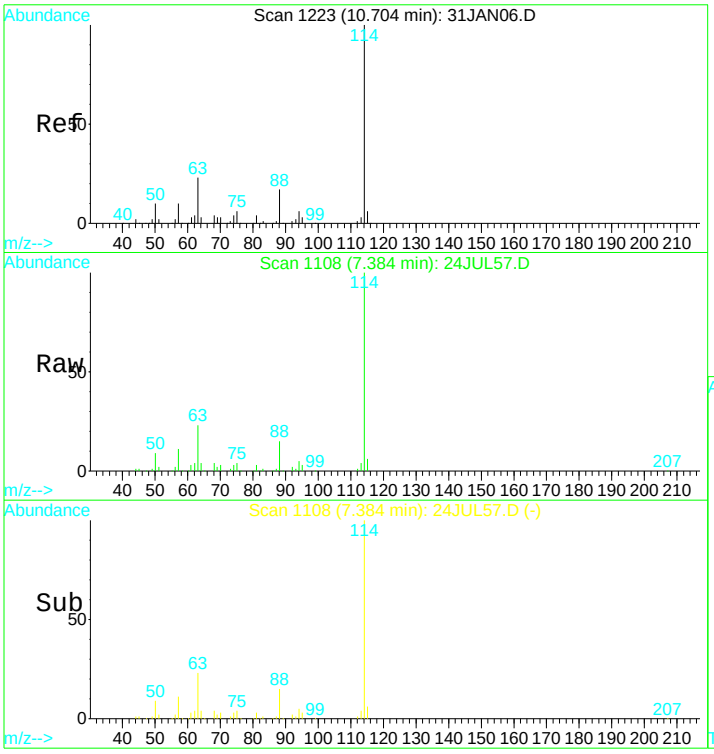


#23
Benzene
Concen: 0.29 ug/L
RT: 6.94 min Scan# 1021
Delta R.T. 0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 78 Resp: 10232

Ion	Ratio	Lower	Upper
78	100		
51	265.1	114.8	213.2#
77	20.6	15.2	28.2

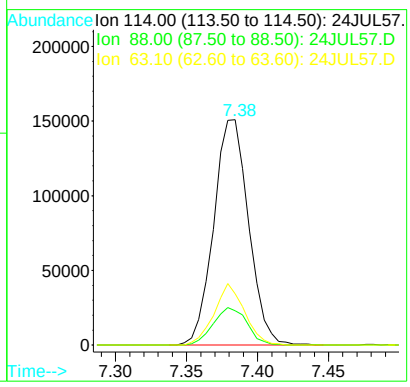


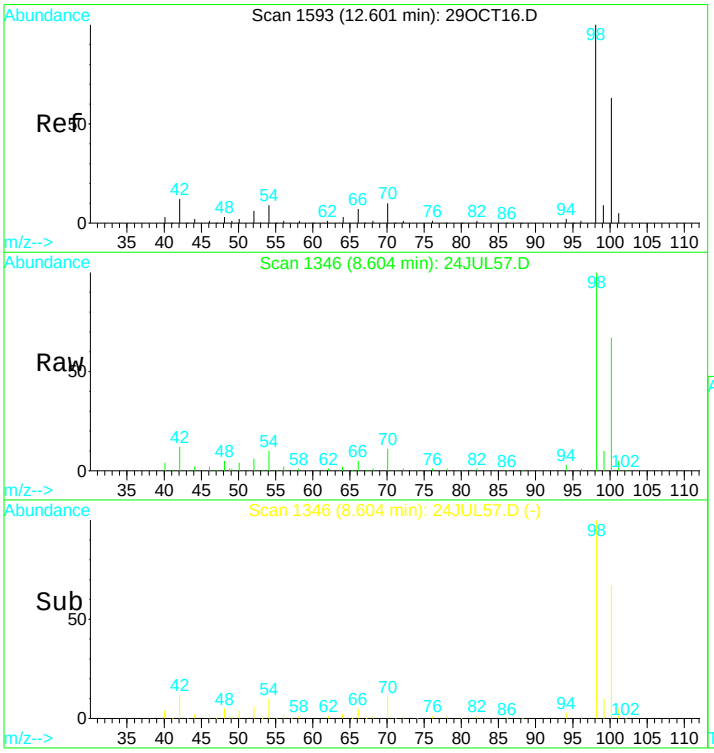


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion:114 Resp: 258688

Ion	Ratio	Lower	Upper
114	100		
88	16.1	11.7	21.7
63	23.8	16.7	30.9

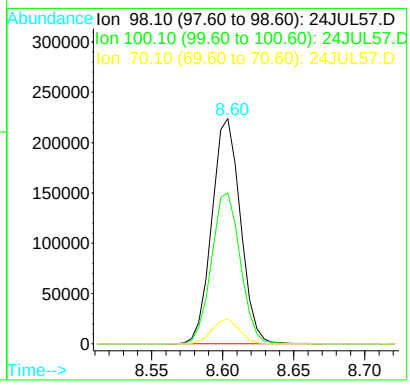


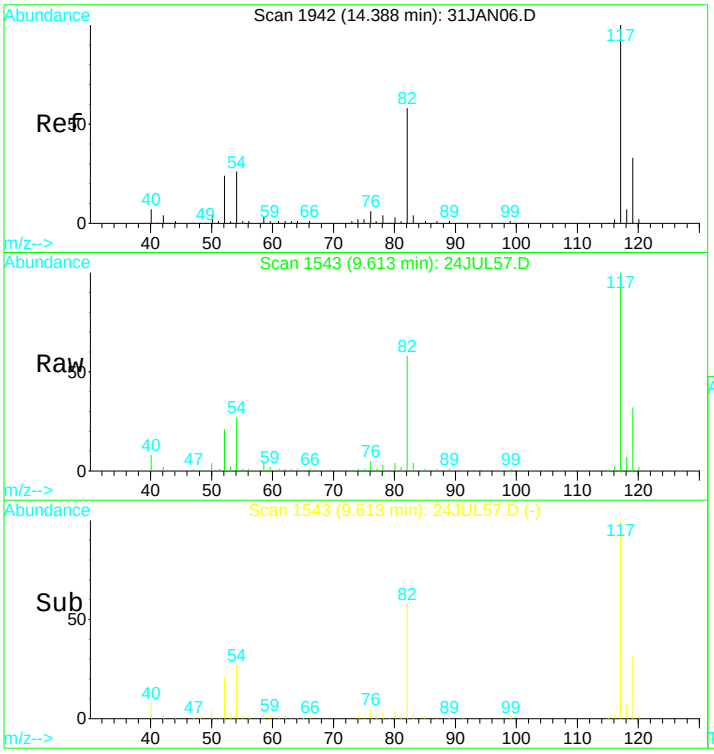


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 98 Resp: 313987

Ion	Ratio	Lower	Upper
98	100		
100	67.8	49.7	92.3
70	10.6	7.3	13.7

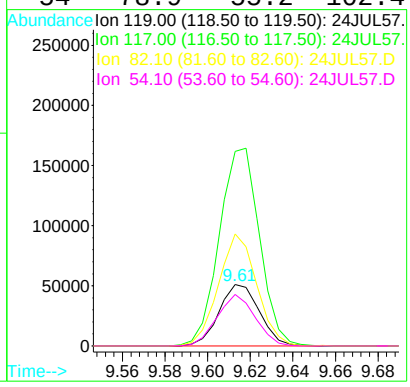


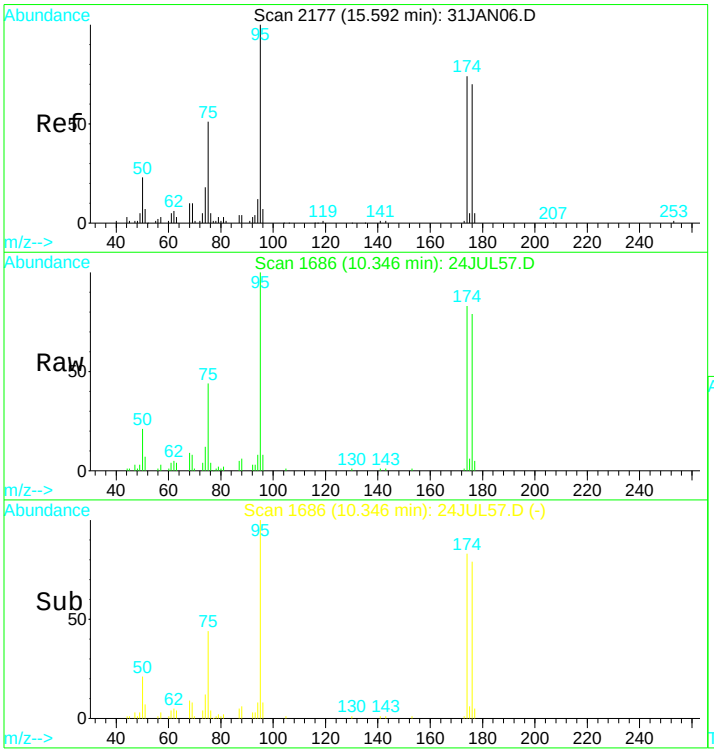


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion:119 Resp: 67484

Ion	Ratio	Lower	Upper
119	100		
117	319.9	214.5	398.4
82	172.7	117.7	218.7
54	78.9	55.2	102.4

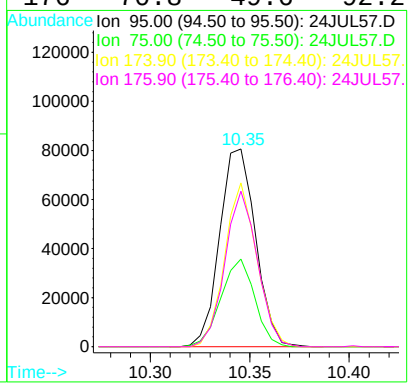




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL57.D
Acq: 25 Jul 2017 2:11 am

Tgt Ion: 95 Resp: 101575

Ion	Ratio	Lower	Upper
95	100		
75	41.5	29.5	54.7
174	74.0	52.3	97.1
176	70.8	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL57.D Vial: 57
Acq On : 25 Jul 2017 2:11 am Operator: MGC
Sample : 1720018-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:33 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171481	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	258688	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	67484	10.00	ug/L	0.00

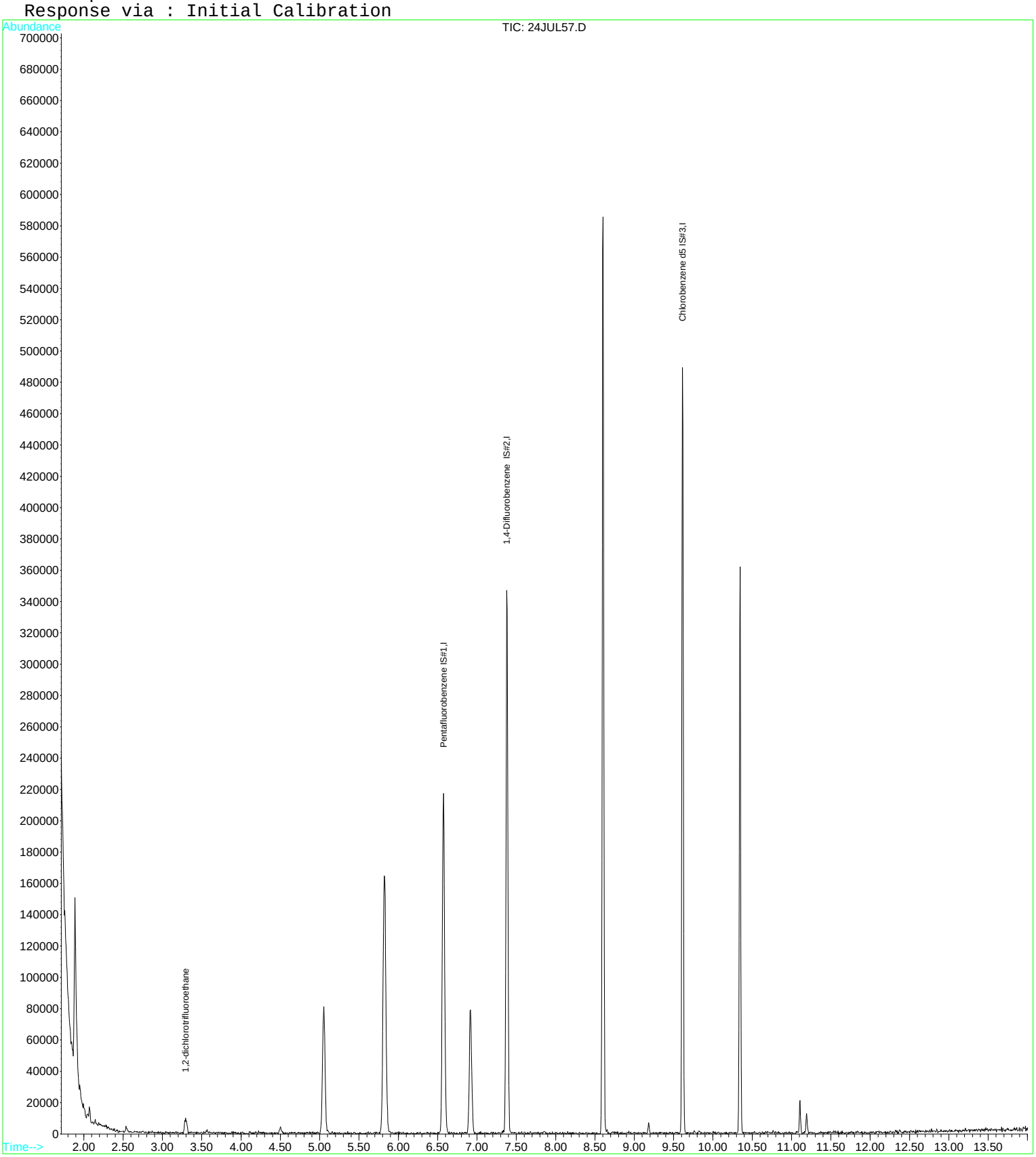
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	6897	0.61	ug/L #	81

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL57.D Vial: 57
Acq On : 25 Jul 2017 2:11 am Operator: MGC
Sample : 1720018-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:33 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL58.D Vial: 58
Acq On : 25 Jul 2017 2:34 am Operator: MGC
Sample : 1720018-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:05 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174255	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	263916	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	71494	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	54130	10.64	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 106.40%			
31) Toluene d8 SMC#2	8.60	98	323341	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.20%			
49) Bromofluorobenzene SMC#3	10.34	95	105810	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.10%			

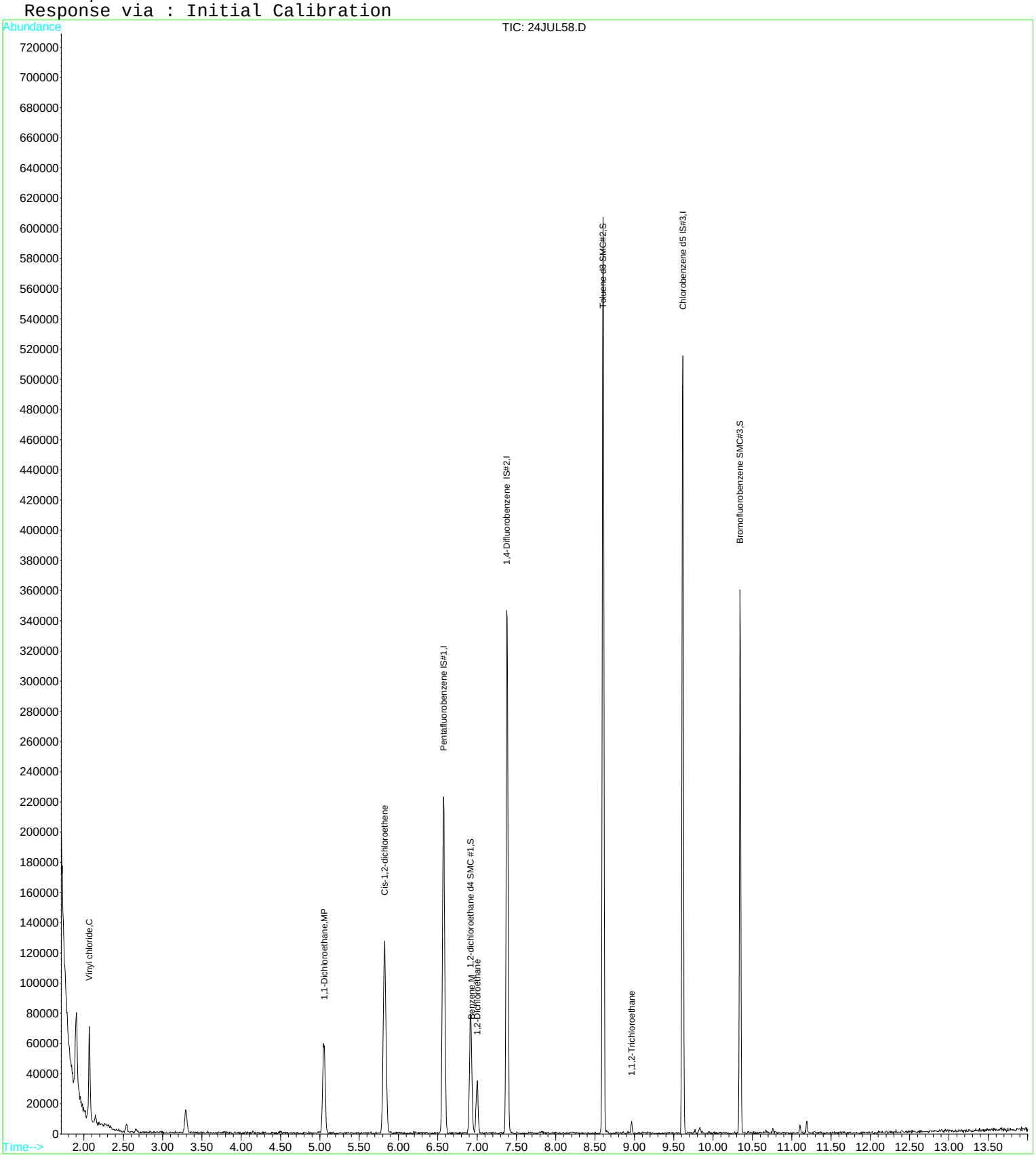
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	51162	3.92	ug/L	90
13) 1,1-Dichloroethane	5.06	63	76388	4.10	ug/L	99
15) Cis-1,2-dichloroethene	5.82	96	69276	7.61	ug/L	87
22) 1,2-Dichloroethane	7.00	62	26231	3.70	ug/L #	85
23) Benzene	6.94	78	8246	0.23	ug/L #	1
34) 1,1,2-Trichloroethane	8.97	97	2149	0.52	ug/L	82

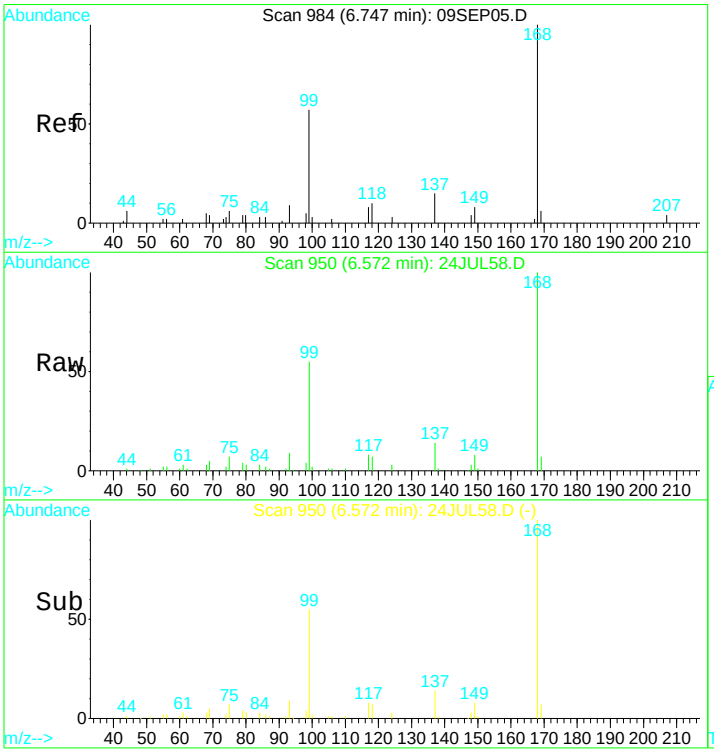
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL58.D Vial: 58
Acq On : 25 Jul 2017 2:34 am Operator: MGC
Sample : 1720018-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:05 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

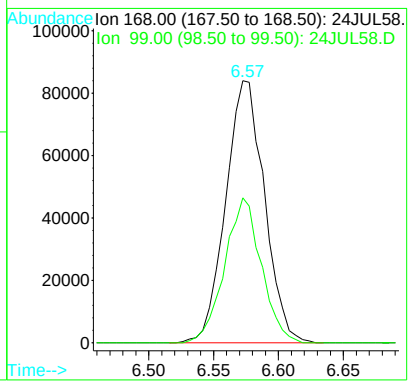


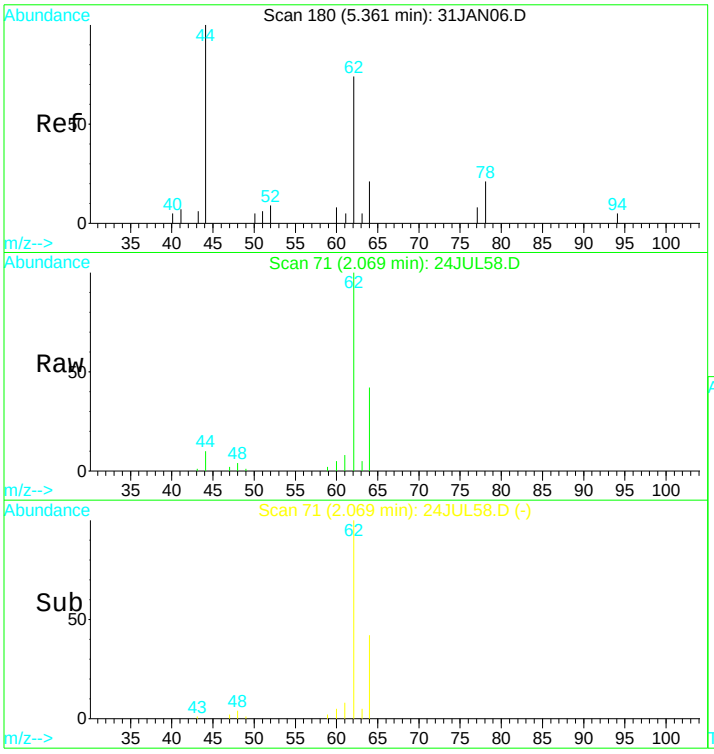


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion:168 Resp: 174255

Ion	Ratio	Lower	Upper
168	100		
99	52.2	38.7	71.9

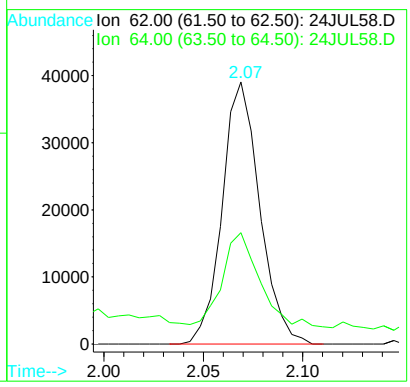


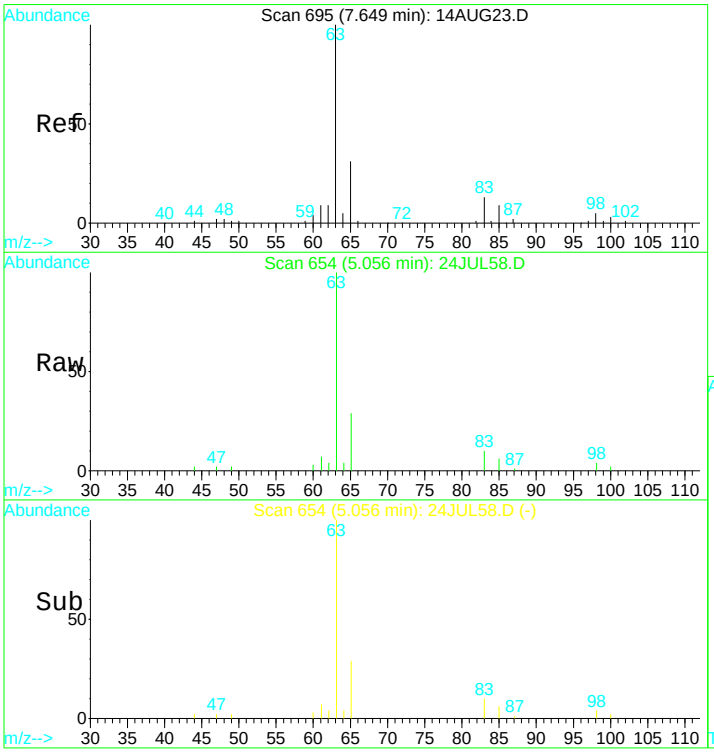


#4
Vinyl chloride
Concen: 3.92 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 62 Resp: 51162

Ion	Ratio	Lower	Upper
62	100		
64	63.4	39.3	72.9

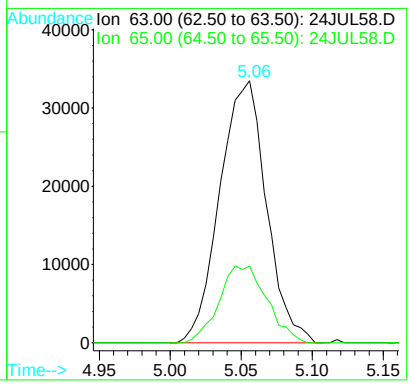


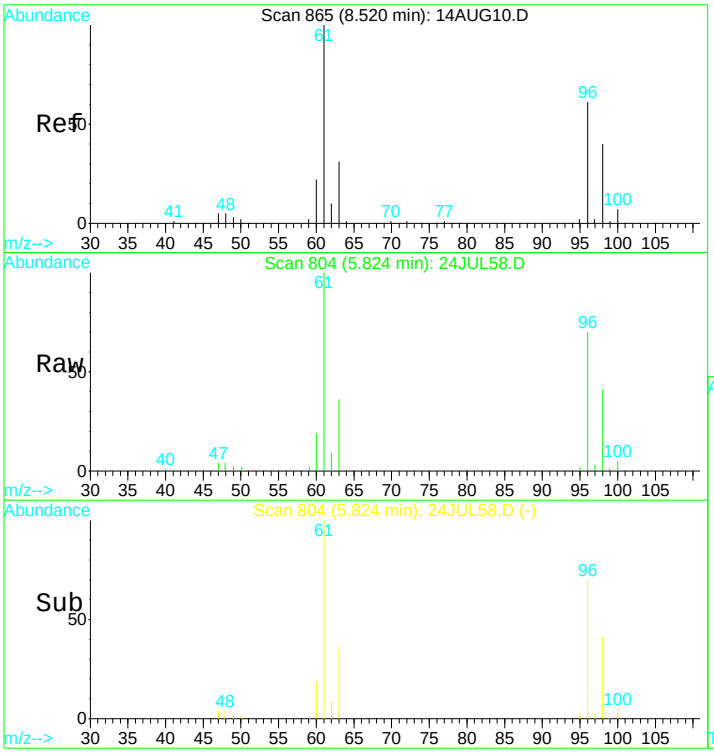


#13
1,1-Dichloroethane
Concen: 4.10 ug/L
RT: 5.06 min Scan# 654
Delta R.T. 0.01 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 63 Resp: 76388

Ion	Ratio	Lower	Upper
63	100		
65	30.1	20.8	38.6

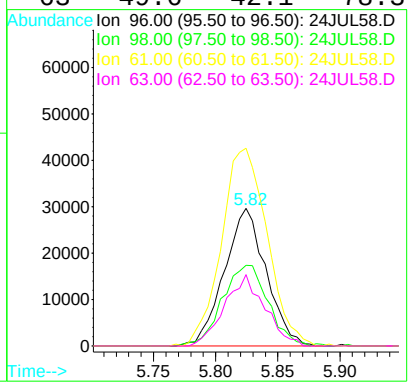


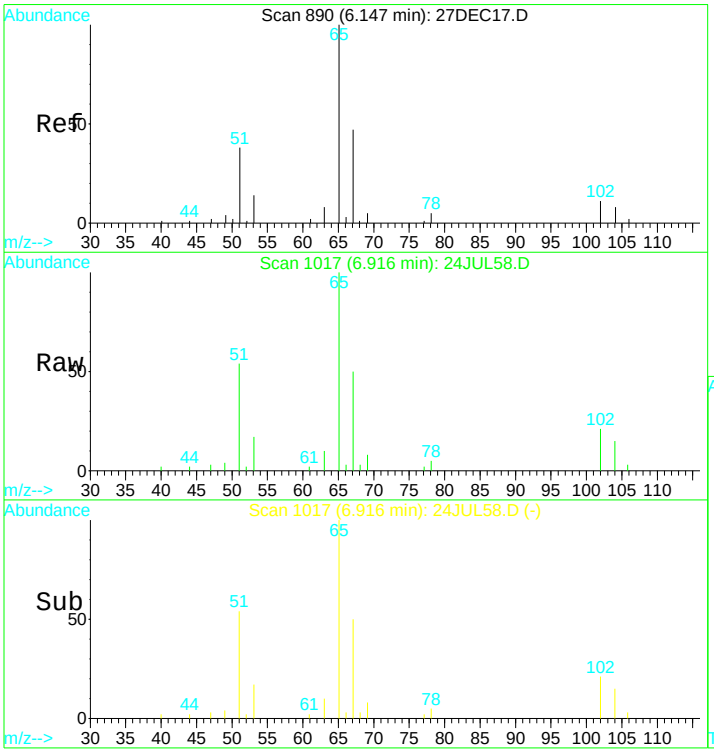


#15
Cis-1,2-dichloroethene
Concen: 7.61 ug/L
RT: 5.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 96 Resp: 69276

Ion	Ratio	Lower	Upper
96	100		
98	64.3	51.9	96.3
61	156.8	122.8	228.0
63	49.6	42.1	78.3

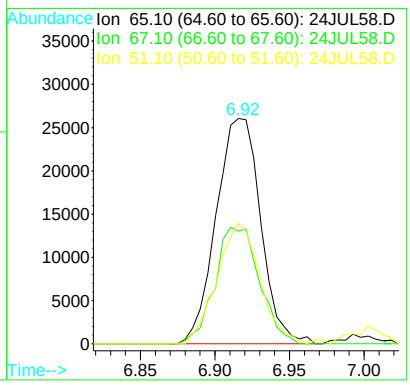


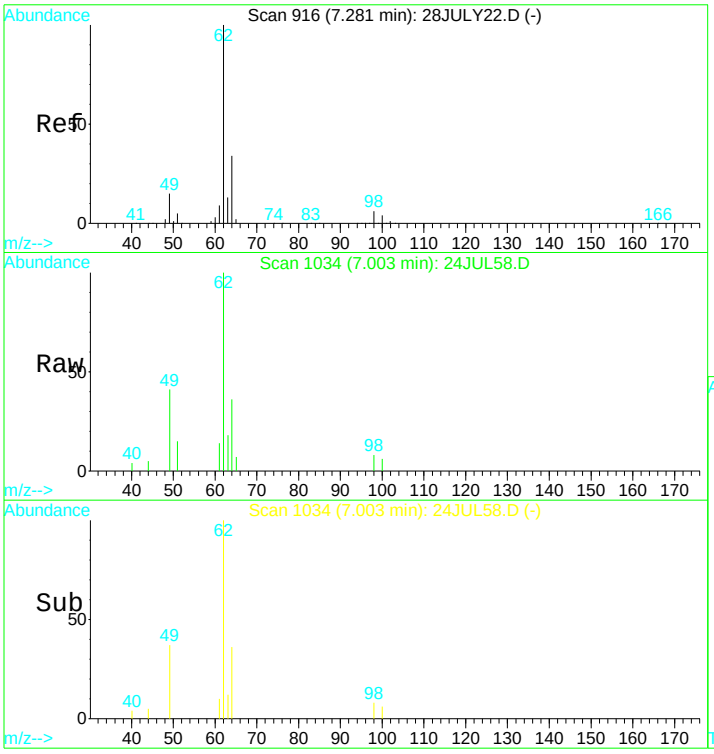


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 65 Resp: 54130

Ion	Ratio	Lower	Upper
65	100		
67	51.7	36.2	67.2
51	51.5	42.0	78.0

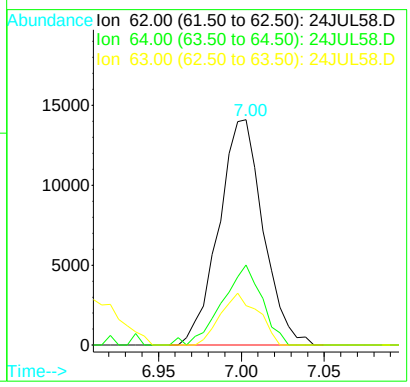


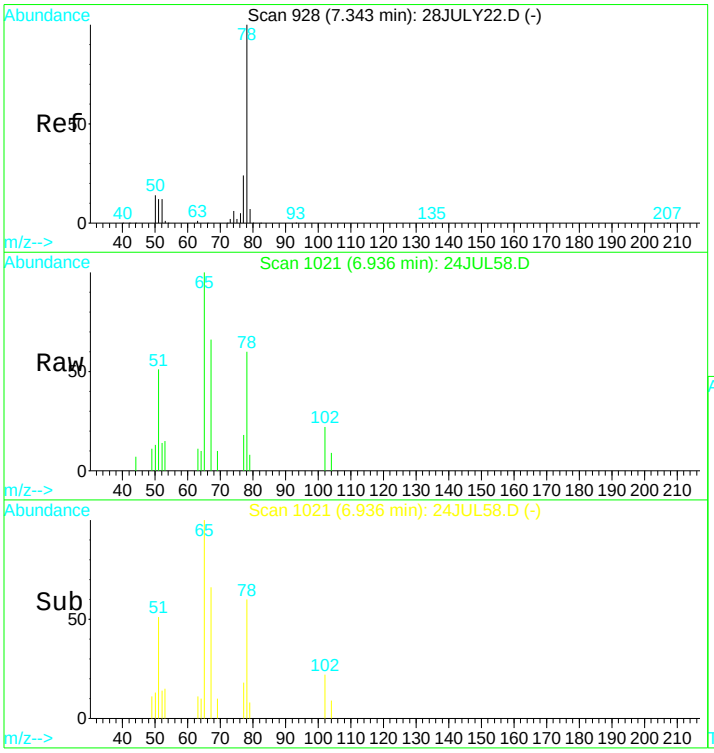


#22
1,2-Dichloroethane
Concen: 3.70 ug/L
RT: 7.00 min Scan# 1034
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 62 Resp: 26231

Ion	Ratio	Lower	Upper
62	100		
64	32.0	18.8	35.0
63	19.5	5.8	10.8#

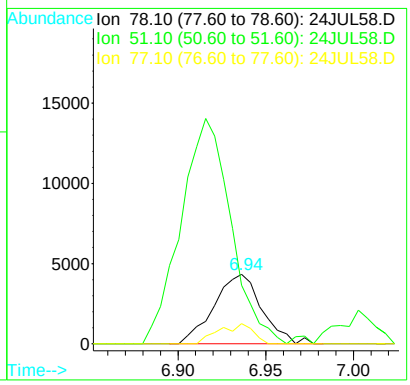


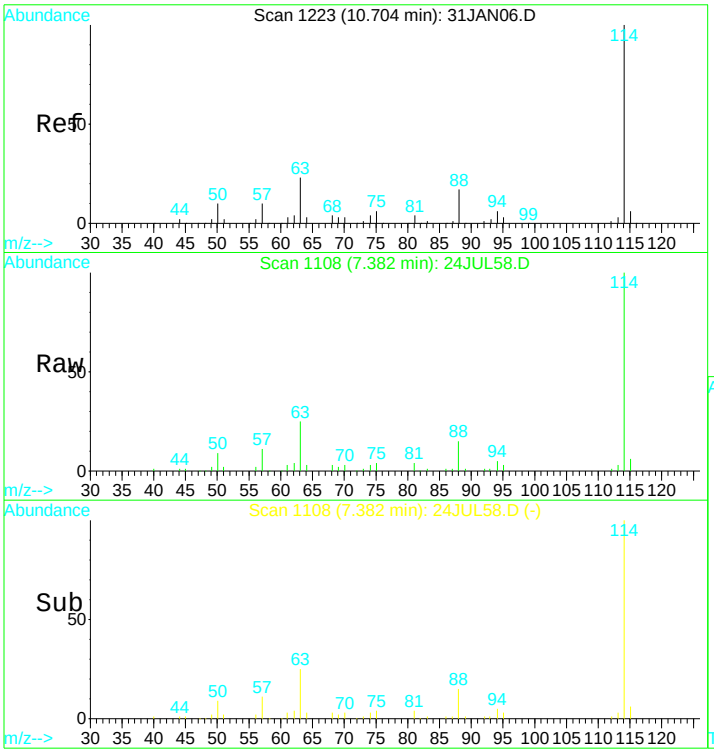


#23
Benzene
Concen: 0.23 ug/L
RT: 6.94 min Scan# 1021
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 78 Resp: 8246

Ion	Ratio	Lower	Upper
78	100		
51	338.4	114.8	213.2#
77	20.9	15.2	28.2

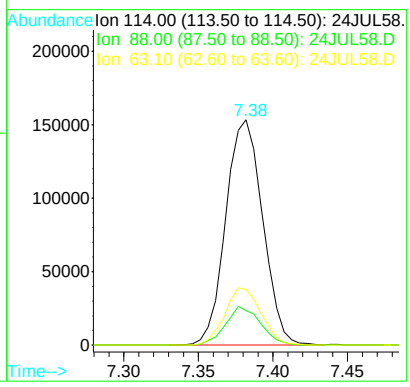


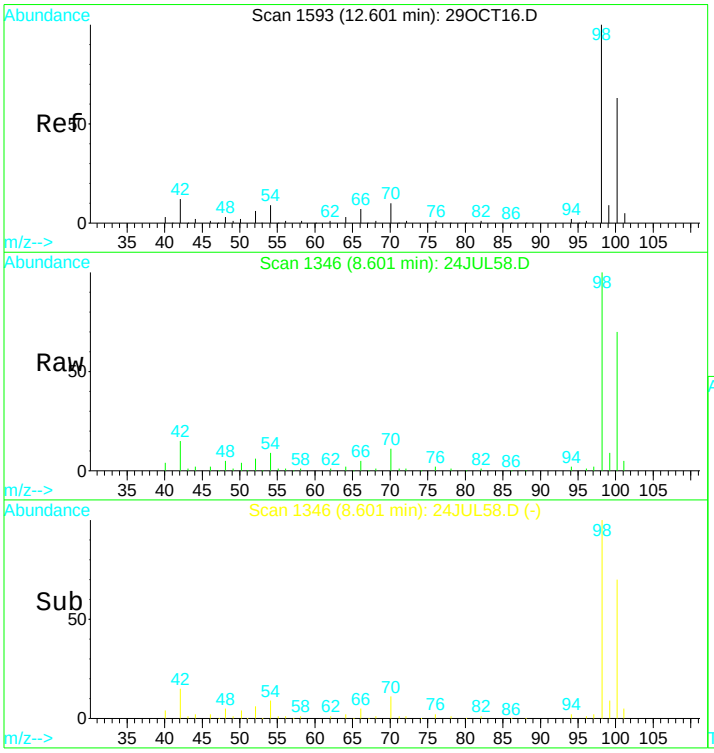


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion:114 Resp: 263916

Ion	Ratio	Lower	Upper
114	100		
88	16.2	11.7	21.7
63	24.7	16.7	30.9

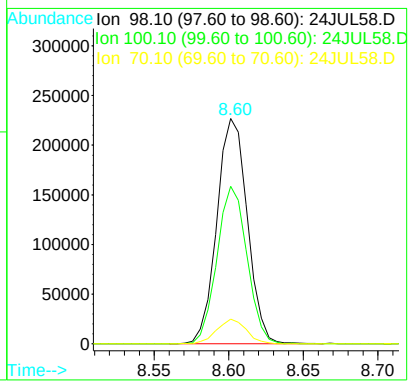


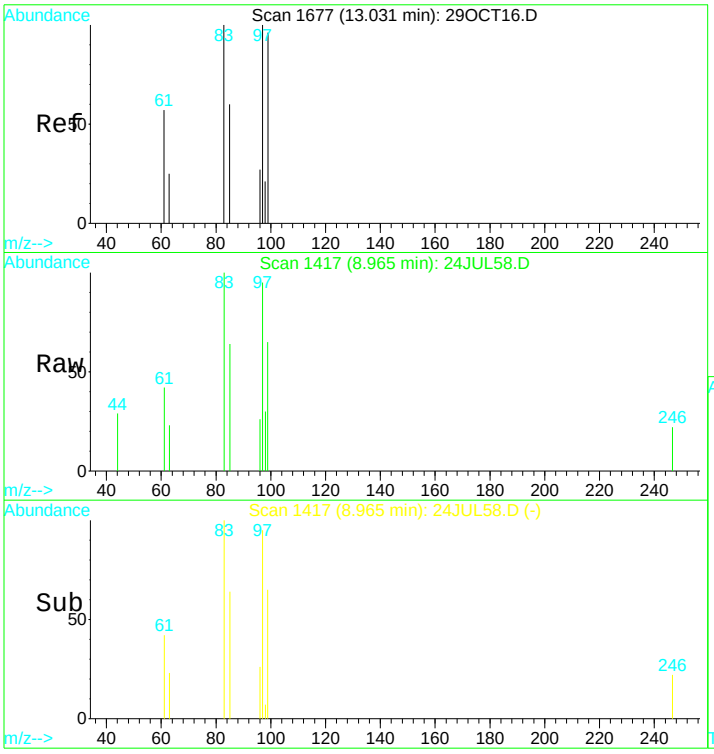


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 98 Resp: 323341

Ion	Ratio	Lower	Upper
98	100		
100	68.7	49.7	92.3
70	10.6	7.3	13.7

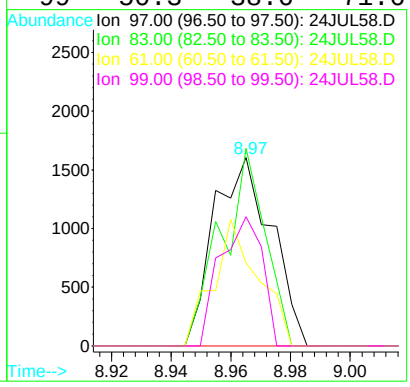


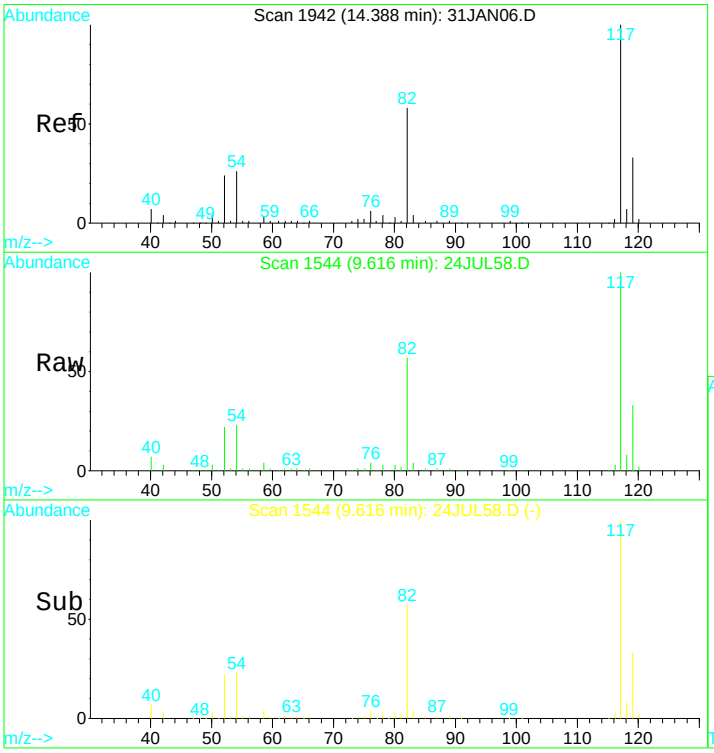


#34
1,1,2-Trichloroethane
Concen: 0.52 ug/L
RT: 8.97 min Scan# 1417
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 97 Resp: 2149

Ion	Ratio	Lower	Upper
97	100		
83	79.7	75.6	140.4
61	53.0	42.8	79.6
99	50.3	38.6	71.6

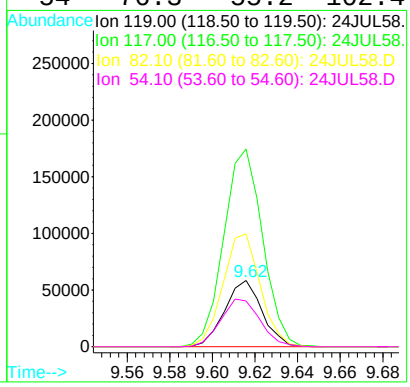


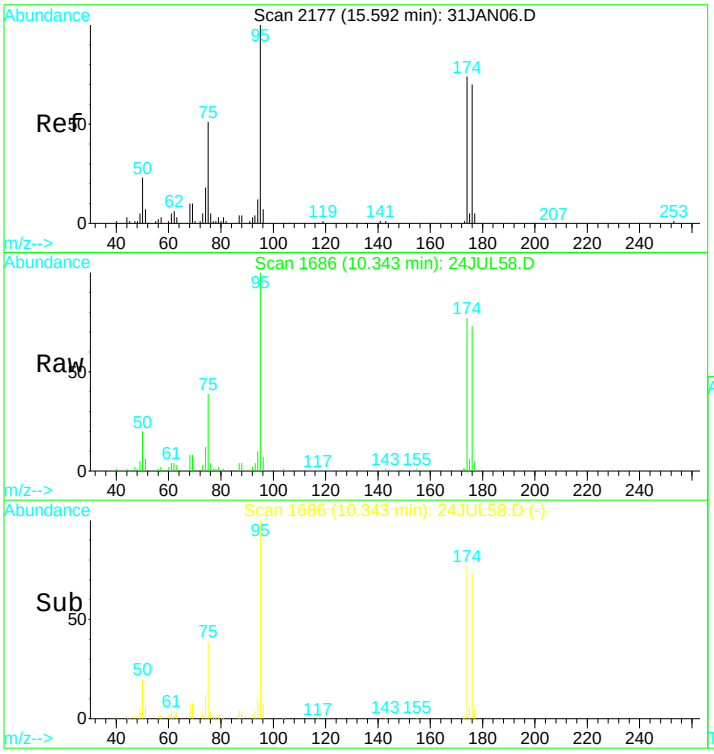


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion:119 Resp: 71494

Ion	Ratio	Lower	Upper
119	100		
117	310.4	214.5	398.4
82	170.8	117.7	218.7
54	76.3	55.2	102.4

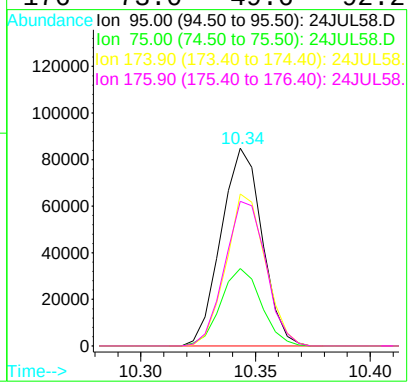




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL58.D
Acq: 25 Jul 2017 2:34 am

Tgt Ion: 95 Resp: 105810

Ion	Ratio	Lower	Upper
95	100		
75	38.6	29.5	54.7
174	73.6	52.3	97.1
176	73.0	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL58.D Vial: 58
Acq On : 25 Jul 2017 2:34 am Operator: MGC
Sample : 1720018-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:34 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174255	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	263916	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	71494	10.00	ug/L	0.00

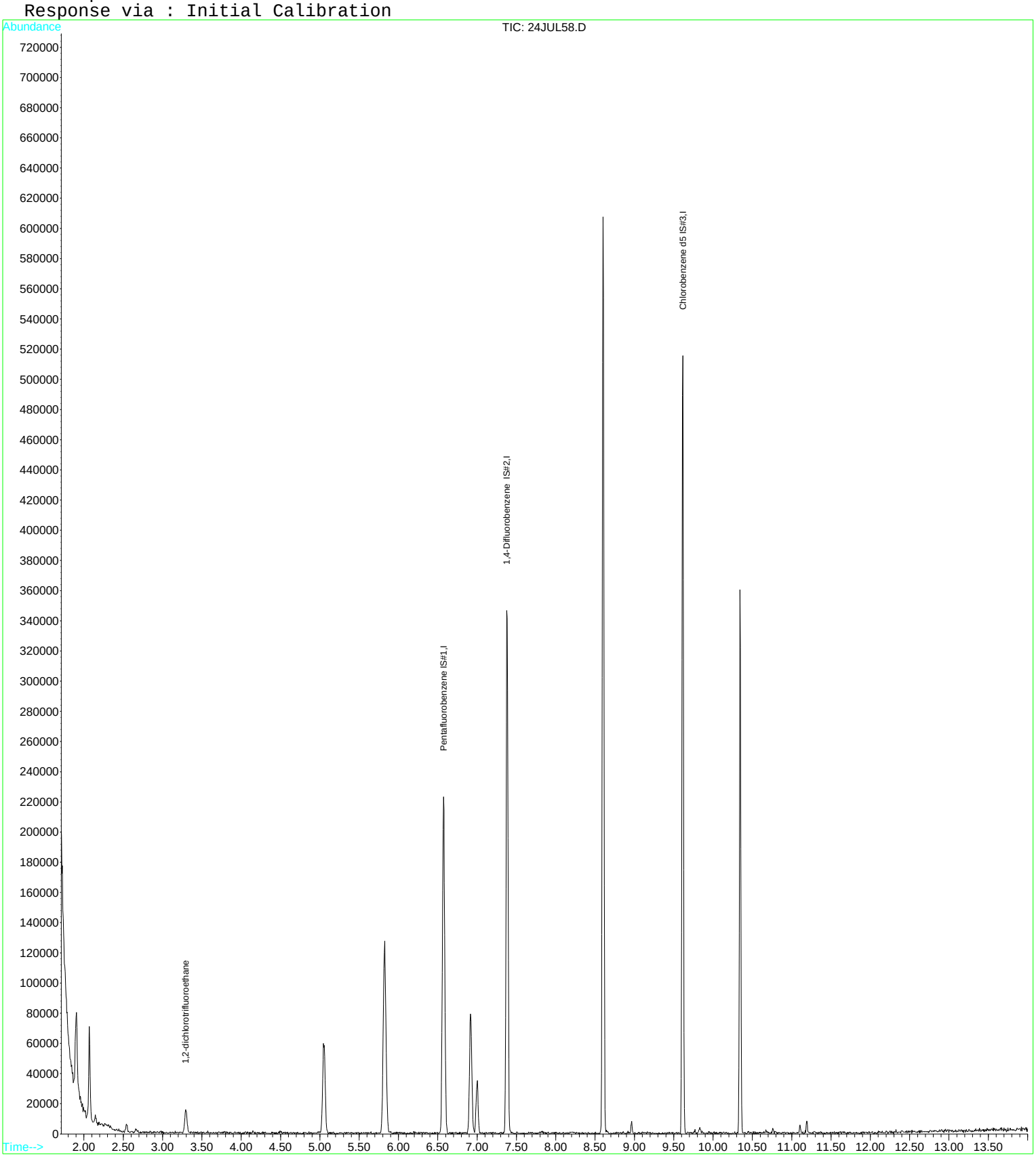
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	10784	0.94	ug/L #	76

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL58.D Vial: 58
Acq On : 25 Jul 2017 2:34 am Operator: MGC
Sample : 1720018-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:34 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL59.D Vial: 59
Acq On : 25 Jul 2017 2:57 am Operator: MGC
Sample : 1720018-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 3:11 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	177288	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	274312	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	72858	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	50551	9.76	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 97.60%			
31) Toluene d8 SMC#2	8.60	98	334289	9.87	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.70%			
49) Bromofluorobenzene SMC#3	10.34	95	107425	9.87	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.70%			

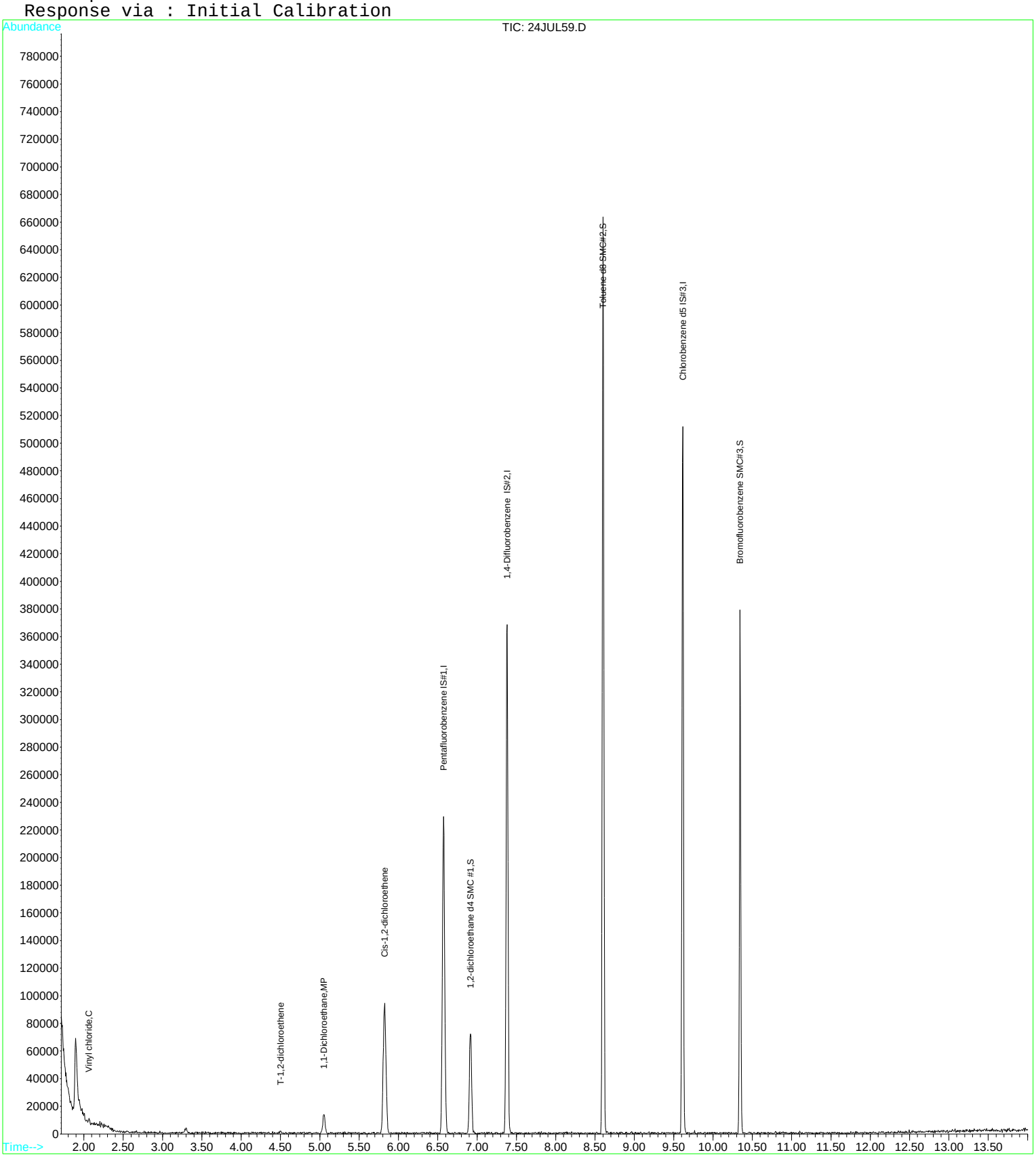
Target Compounds						Qvalue
4) Vinyl chloride	2.06	62	1229	0.09	ug/L #	23
12) T-1,2-dichloroethene	4.50	96	591	0.07	ug/L #	55
13) 1,1-Dichloroethane	5.06	63	18988	1.00	ug/L	89
15) Cis-1,2-dichloroethene	5.82	96	52373	5.66	ug/L	87

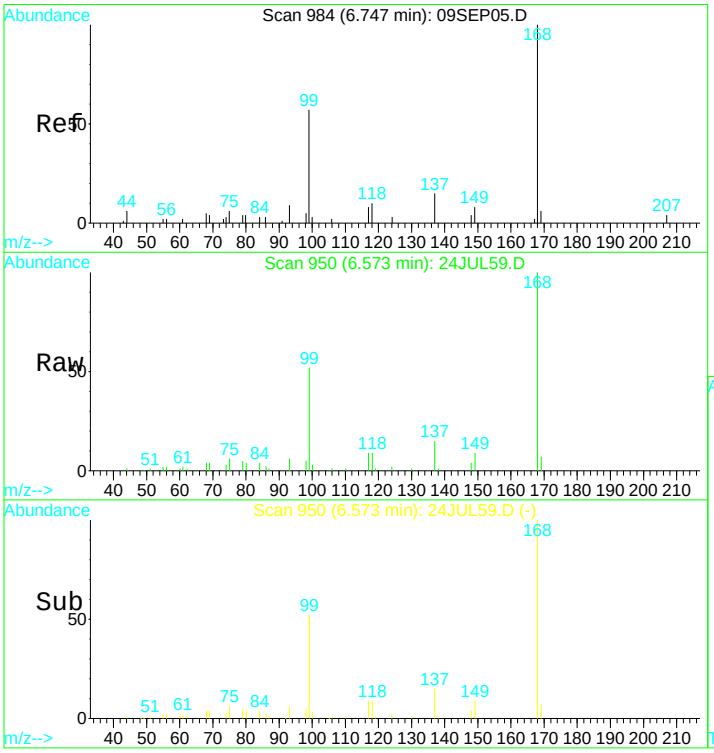
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL59.D Vial: 59
Acq On : 25 Jul 2017 2:57 am Operator: MGC
Sample : 1720018-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 3:11 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

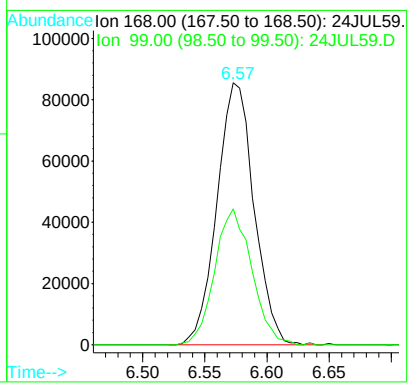


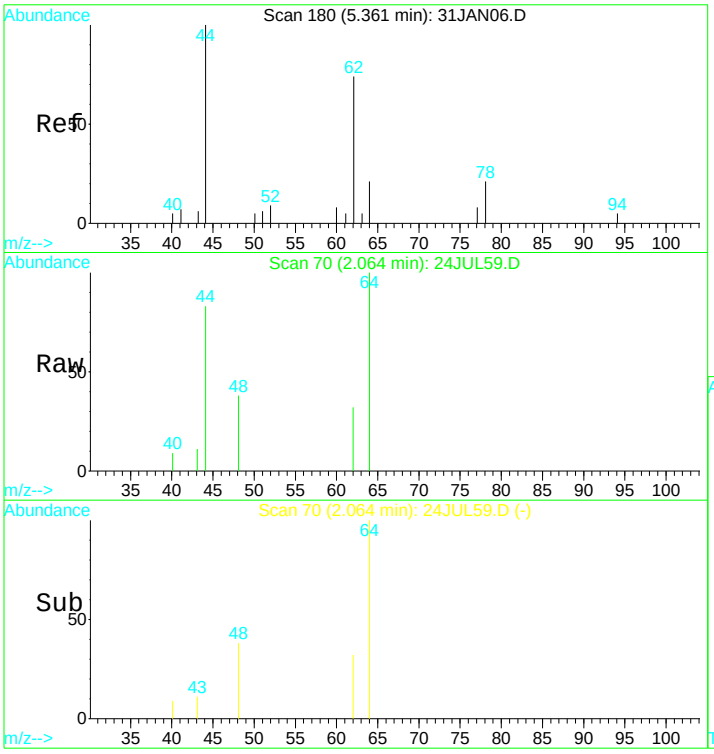


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion:168 Resp: 177288

Ion	Ratio	Lower	Upper
168	100		
99	51.8	38.7	71.9

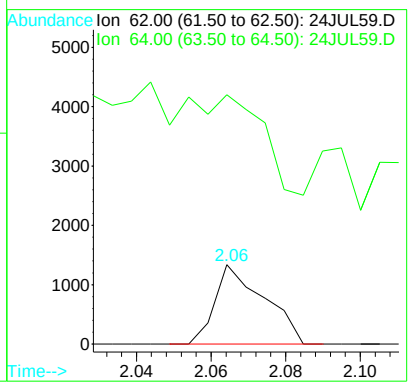


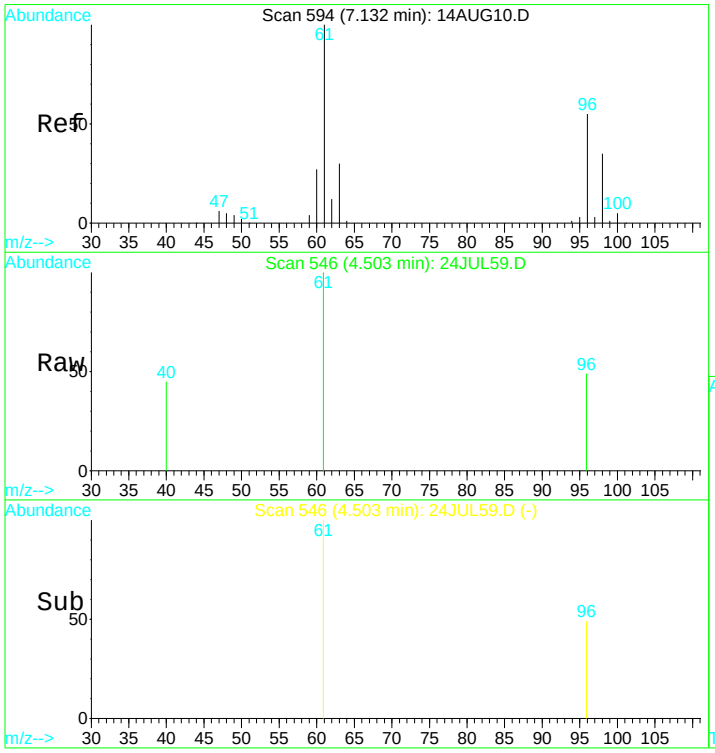


#4
Vinyl chloride
Concen: 0.09 ug/L
RT: 2.06 min Scan# 70
Delta R.T. -0.01 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 62 Resp: 1229

Ion	Ratio	Lower	Upper
62	100		
64	0.0	39.3	72.9#

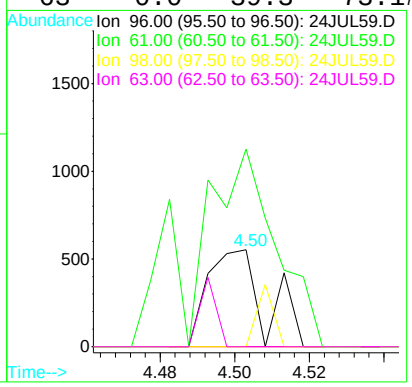


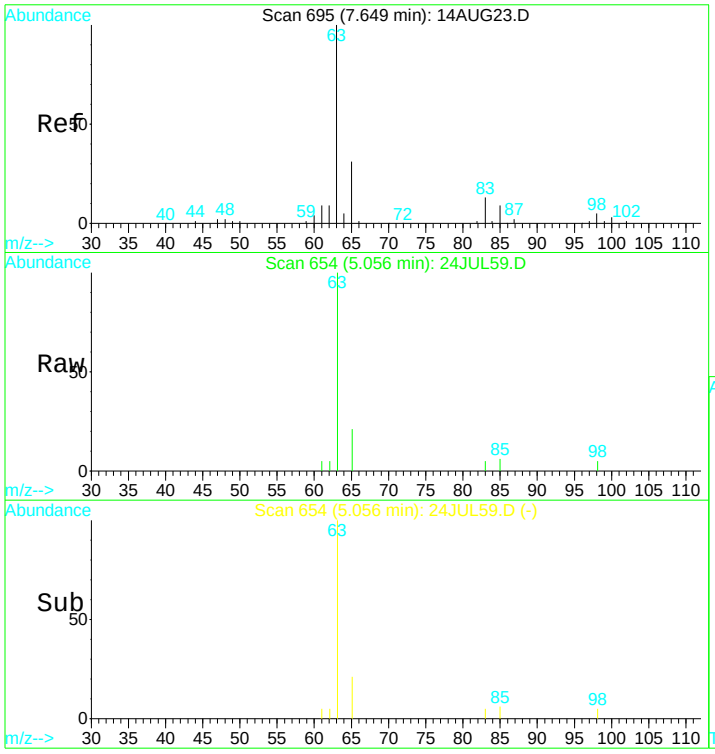


#12
T-1,2-dichloroethene
Concen: 0.07 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 96 Resp: 591

Ion	Ratio	Lower	Upper
96	100		
61	230.8	129.4	240.4
98	18.4	41.5	77.1#
63	0.0	39.3	73.1#

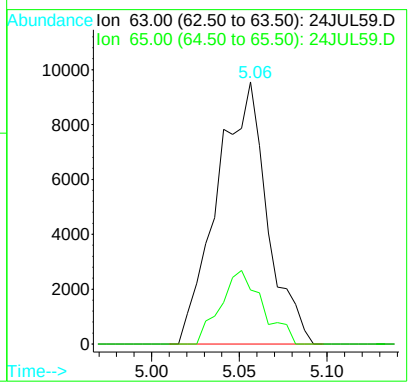


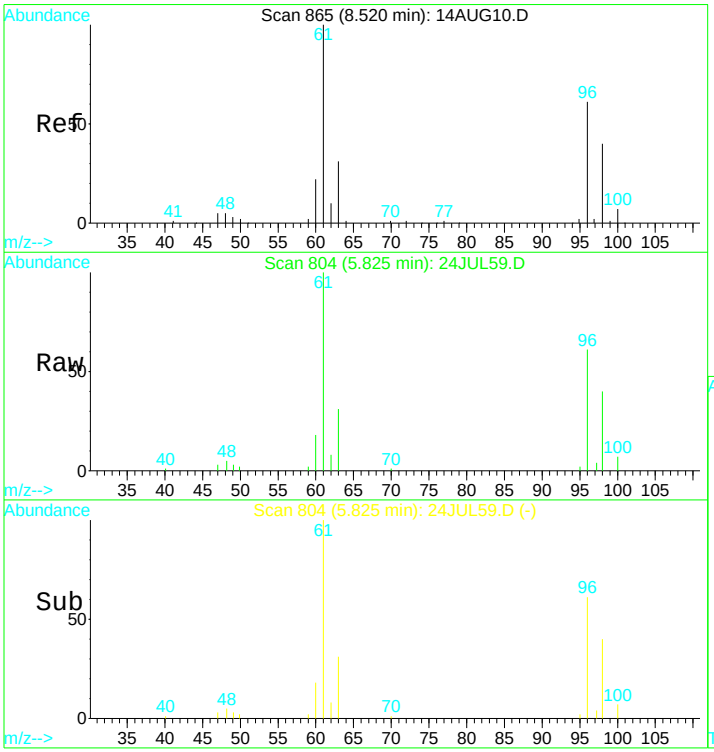


#13
1,1-Dichloroethane
Concen: 1.00 ug/L
RT: 5.06 min Scan# 654
Delta R.T. 0.01 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 63 Resp: 18988

Ion	Ratio	Lower	Upper
63	100		
65	23.5	20.8	38.6

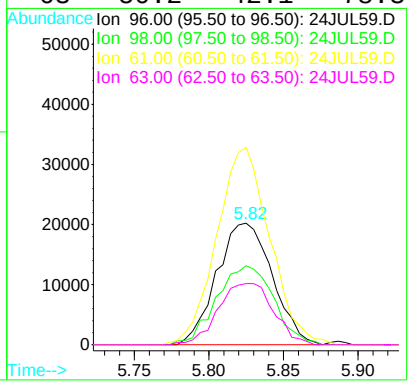


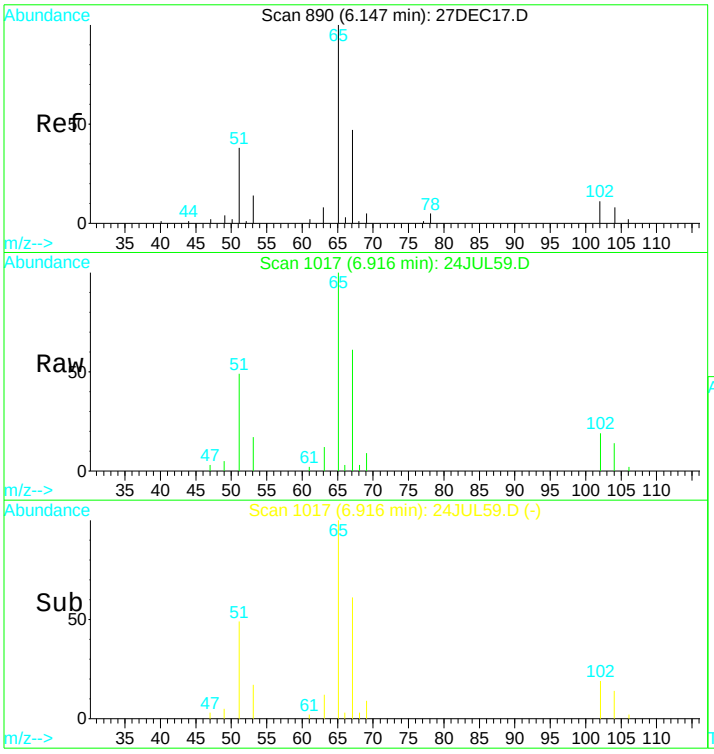


#15
Cis-1,2-dichloroethene
Concen: 5.66 ug/L
RT: 5.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 96 Resp: 52373

Ion	Ratio	Lower	Upper
96	100		
98	66.7	51.9	96.3
61	154.8	122.8	228.0
63	50.2	42.1	78.3

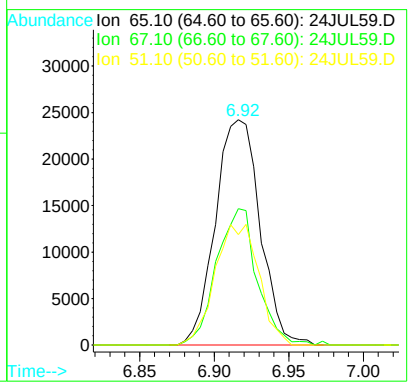


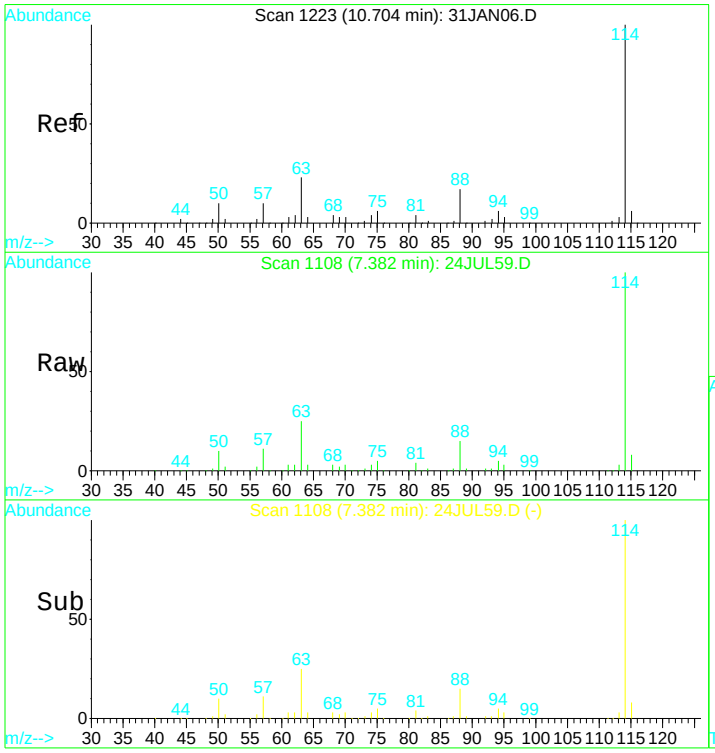


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 65 Resp: 50551

Ion	Ratio	Lower	Upper
65	100		
67	55.2	36.2	67.2
51	52.5	42.0	78.0

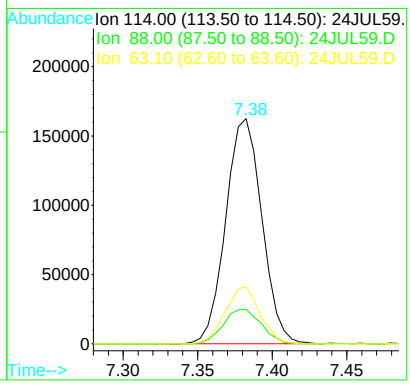


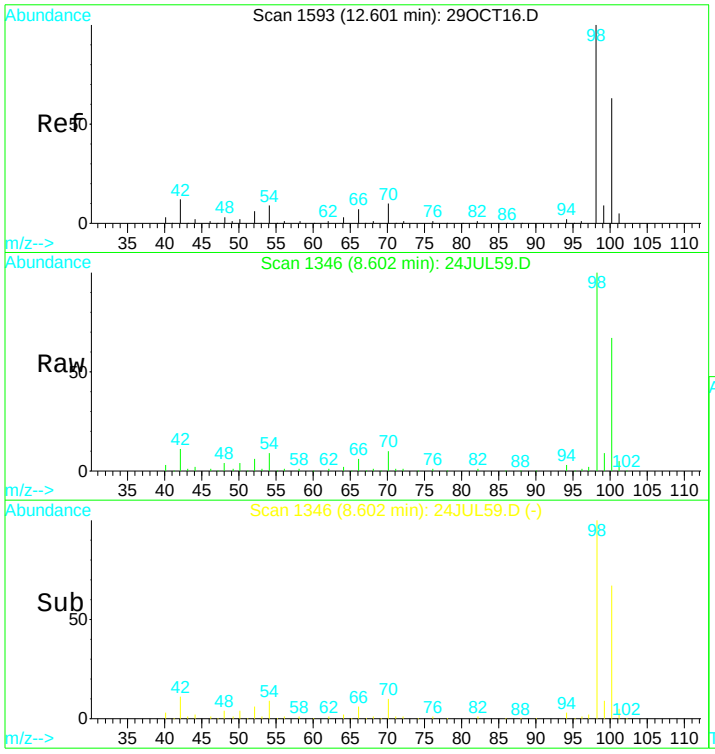


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion:114 Resp: 274312

Ion	Ratio	Lower	Upper
114	100		
88	16.2	11.7	21.7
63	24.3	16.7	30.9

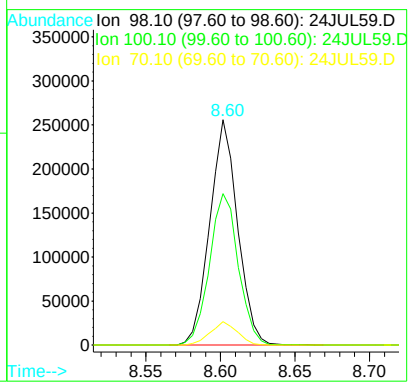


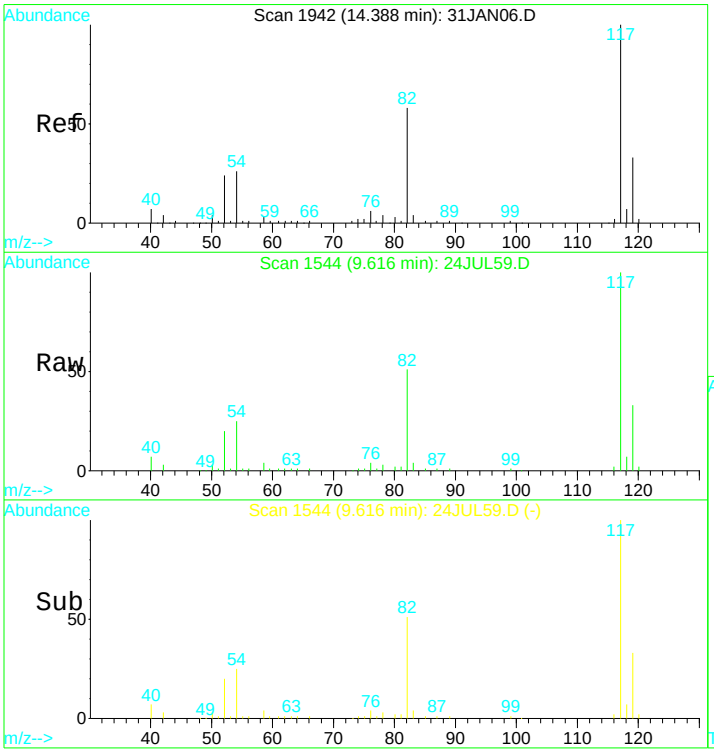


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 98 Resp: 334289

Ion	Ratio	Lower	Upper
98	100		
100	69.6	49.7	92.3
70	10.0	7.3	13.7

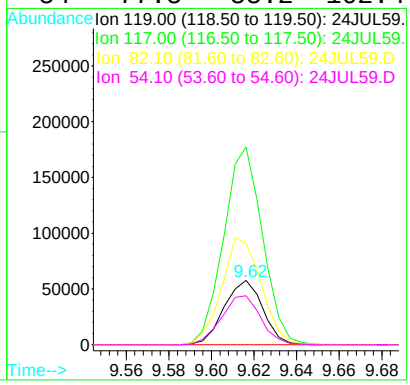


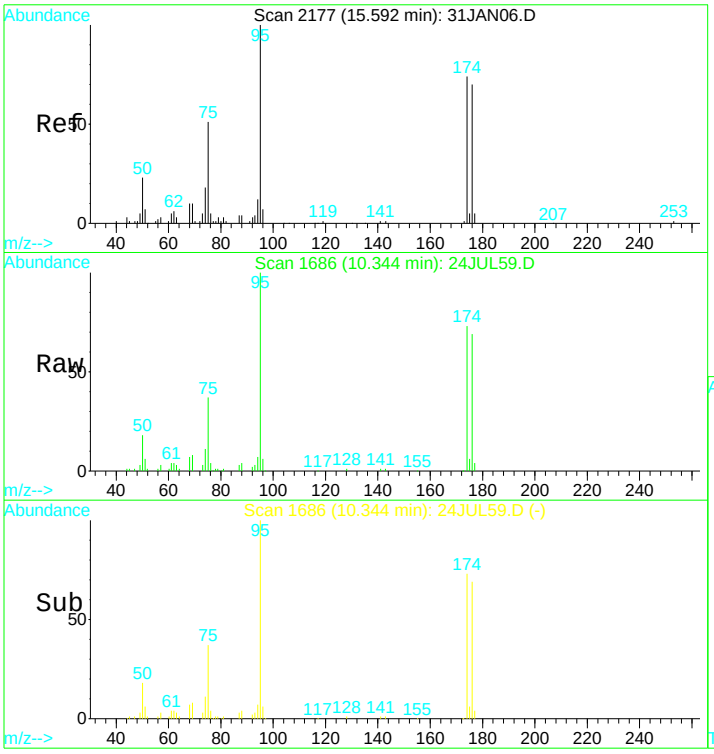


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion:119 Resp: 72858

Ion	Ratio	Lower	Upper
119	100		
117	309.3	214.5	398.4
82	170.4	117.7	218.7
54	77.5	55.2	102.4

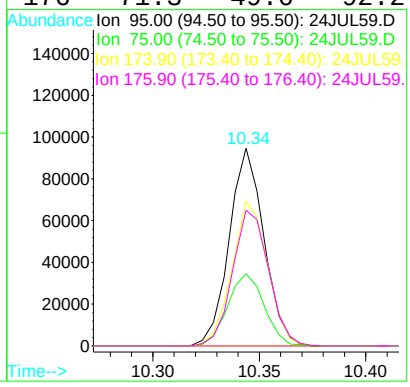




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 24JUL59.D
Acq: 25 Jul 2017 2:57 am

Tgt Ion: 95 Resp: 107425

Ion	Ratio	Lower	Upper
95	100		
75	38.3	29.5	54.7
174	75.0	52.3	97.1
176	71.3	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL59.D Vial: 59
Acq On : 25 Jul 2017 2:57 am Operator: MGC
Sample : 1720018-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:35 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	177288	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	274312	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	72858	10.00	ug/L	0.00

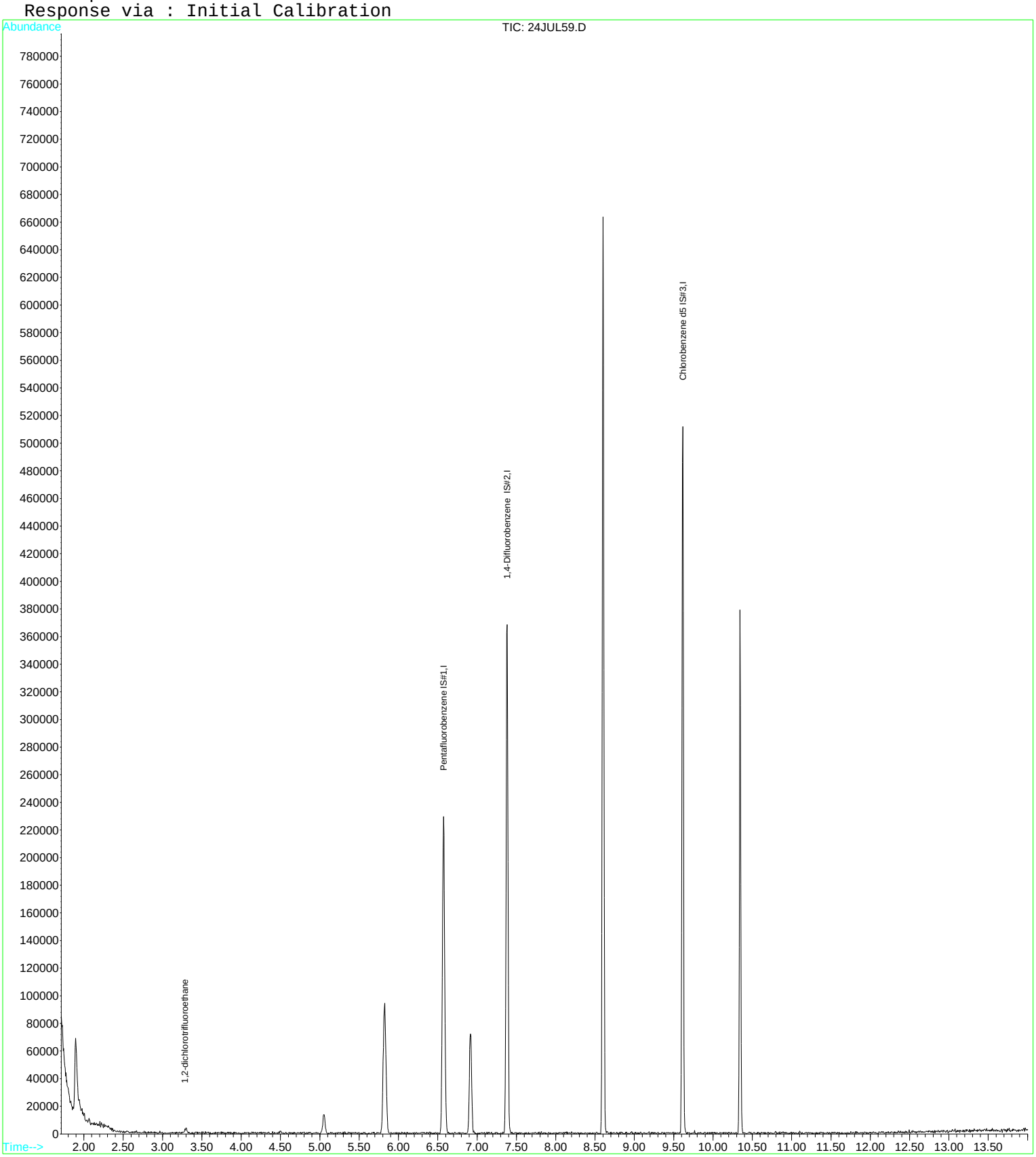
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.28	67	2547	0.22	ug/L #	36

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL59.D Vial: 59
Acq On : 25 Jul 2017 2:57 am Operator: MGC
Sample : 1720018-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:35 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL01.D Vial: 1
Acq On : 25 Jul 2017 5:38 am Operator: MGC
Sample : 1720018-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:24 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185958	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	285352	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	74781	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	54368	10.01	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.10%			
31) Toluene d8 SMC#2	8.60	98	341721	9.70	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.00%			
49) Bromofluorobenzene SMC#3	10.34	95	107254	9.61	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.10%			

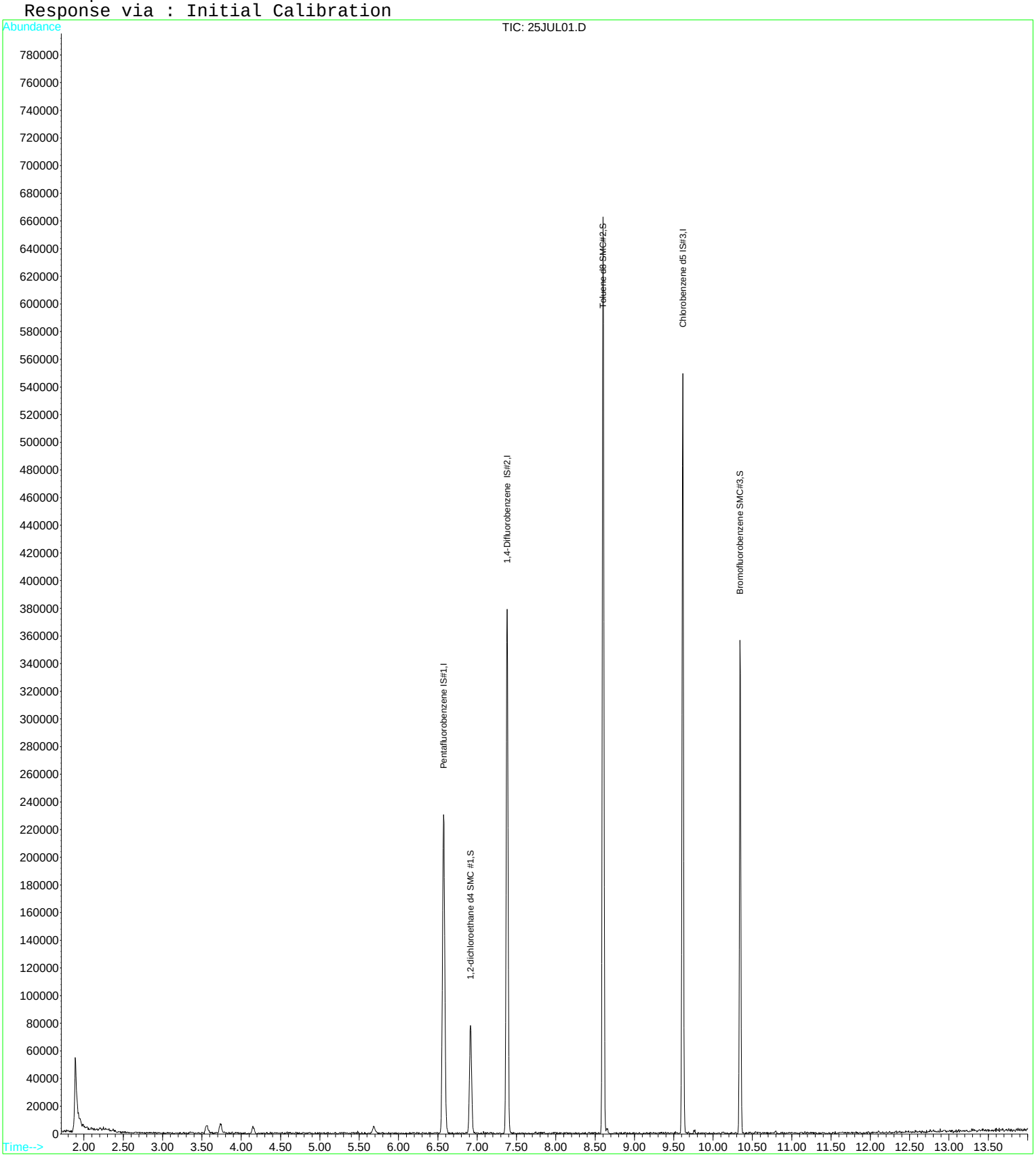
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL01.D Vial: 1
Acq On : 25 Jul 2017 5:38 am Operator: MGC
Sample : 1720018-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:24 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL01.D Vial: 1
Acq On : 25 Jul 2017 5:38 am Operator: MGC
Sample : 1720018-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:25 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185958	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	285352	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74781	10.00	ug/L	0.00

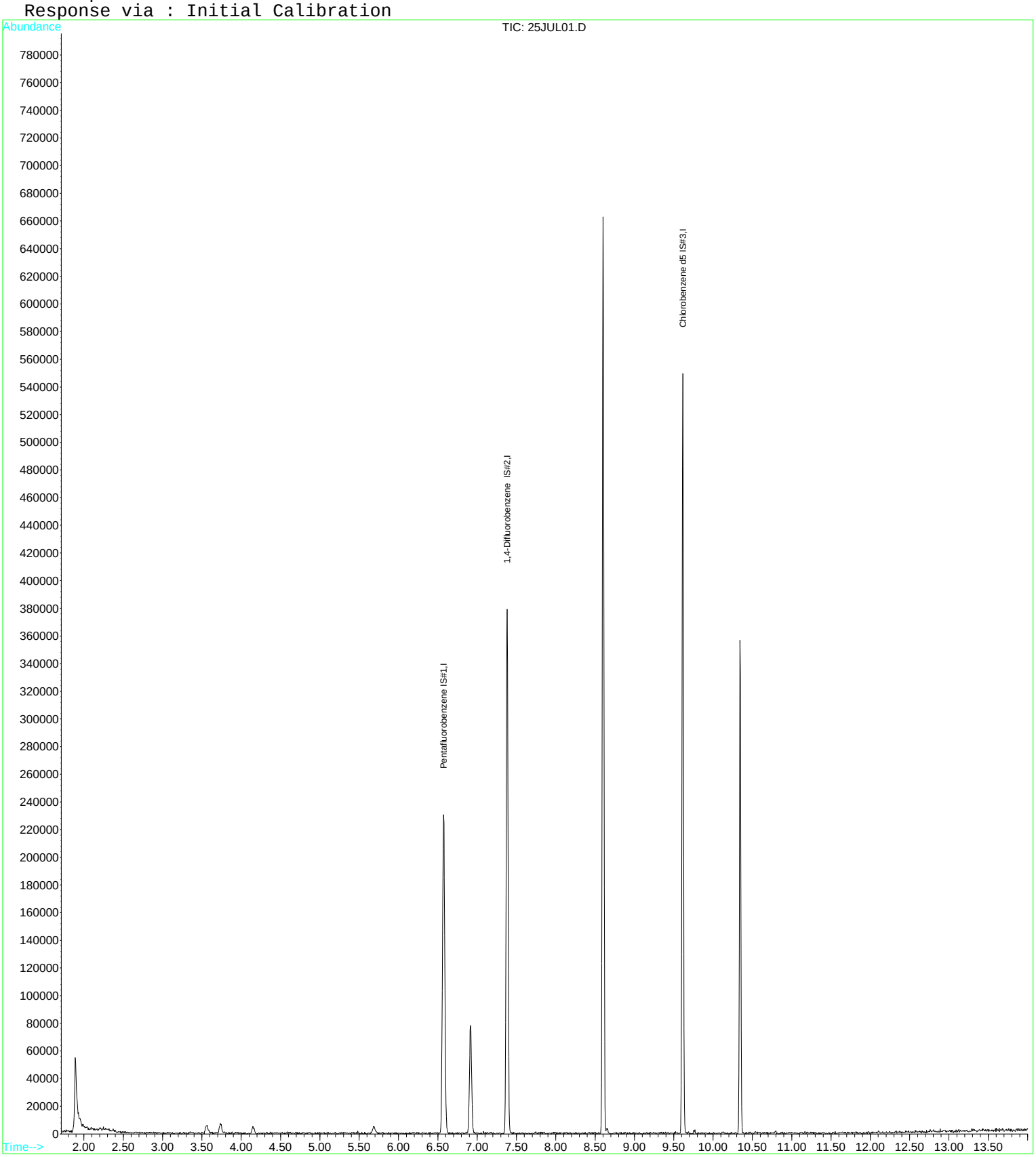
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL01.D Vial: 1
Acq On : 25 Jul 2017 5:38 am Operator: MGC
Sample : 1720018-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:25 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL02.D Vial: 2
Acq On : 25 Jul 2017 6:01 am Operator: MGC
Sample : 1720018-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:25 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	184699	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	274016	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	73730	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	52181	9.67	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 96.70%			
31) Toluene d8 SMC#2	8.60	98	333775	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			
49) Bromofluorobenzene SMC#3	10.35	95	106740	9.70	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.00%			

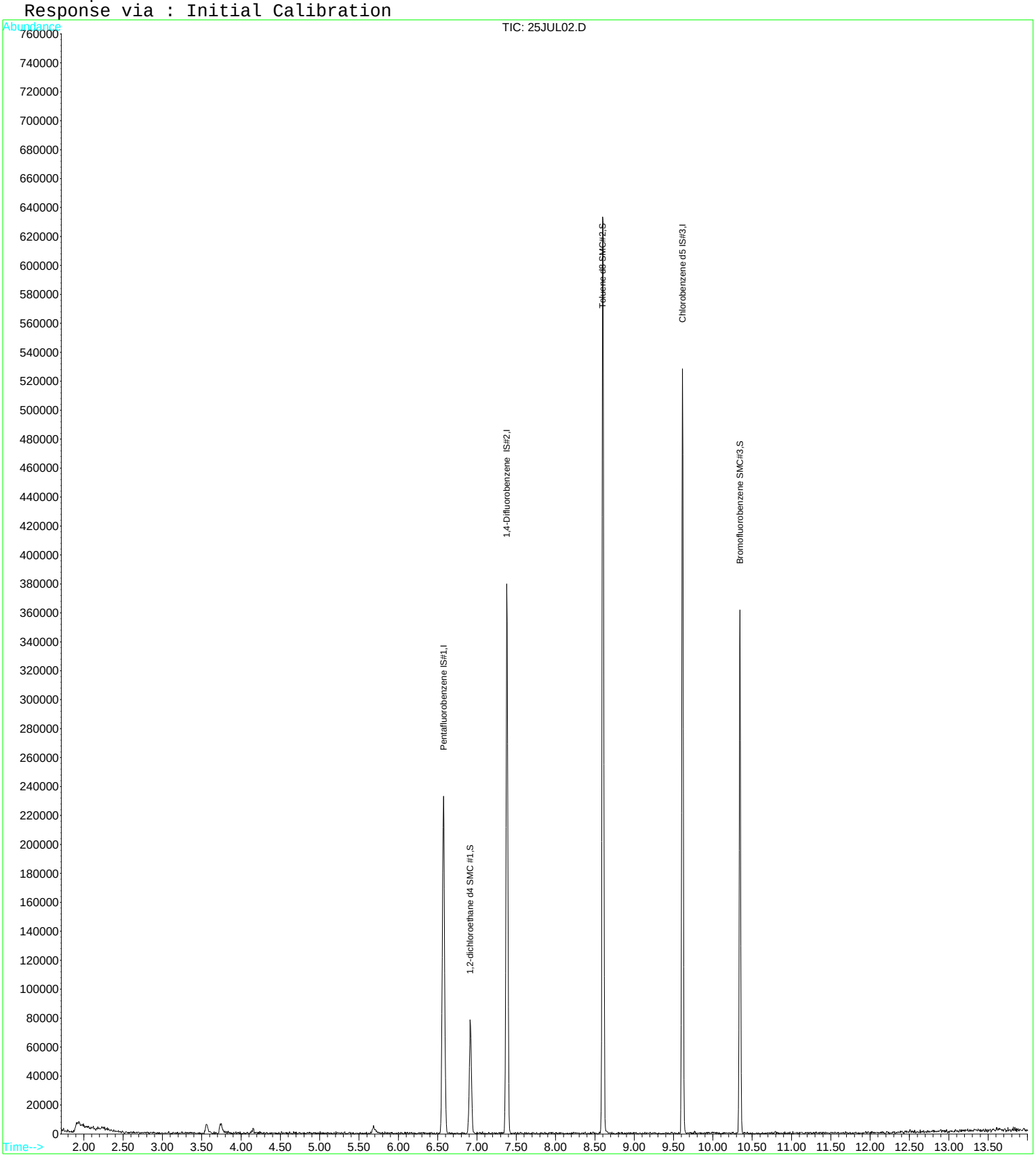
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL02.D Vial: 2
Acq On : 25 Jul 2017 6:01 am Operator: MGC
Sample : 1720018-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:25 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL02.D Vial: 2
Acq On : 25 Jul 2017 6:01 am Operator: MGC
Sample : 1720018-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:26 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	184699	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	274016	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	73730	10.00	ug/L	0.00

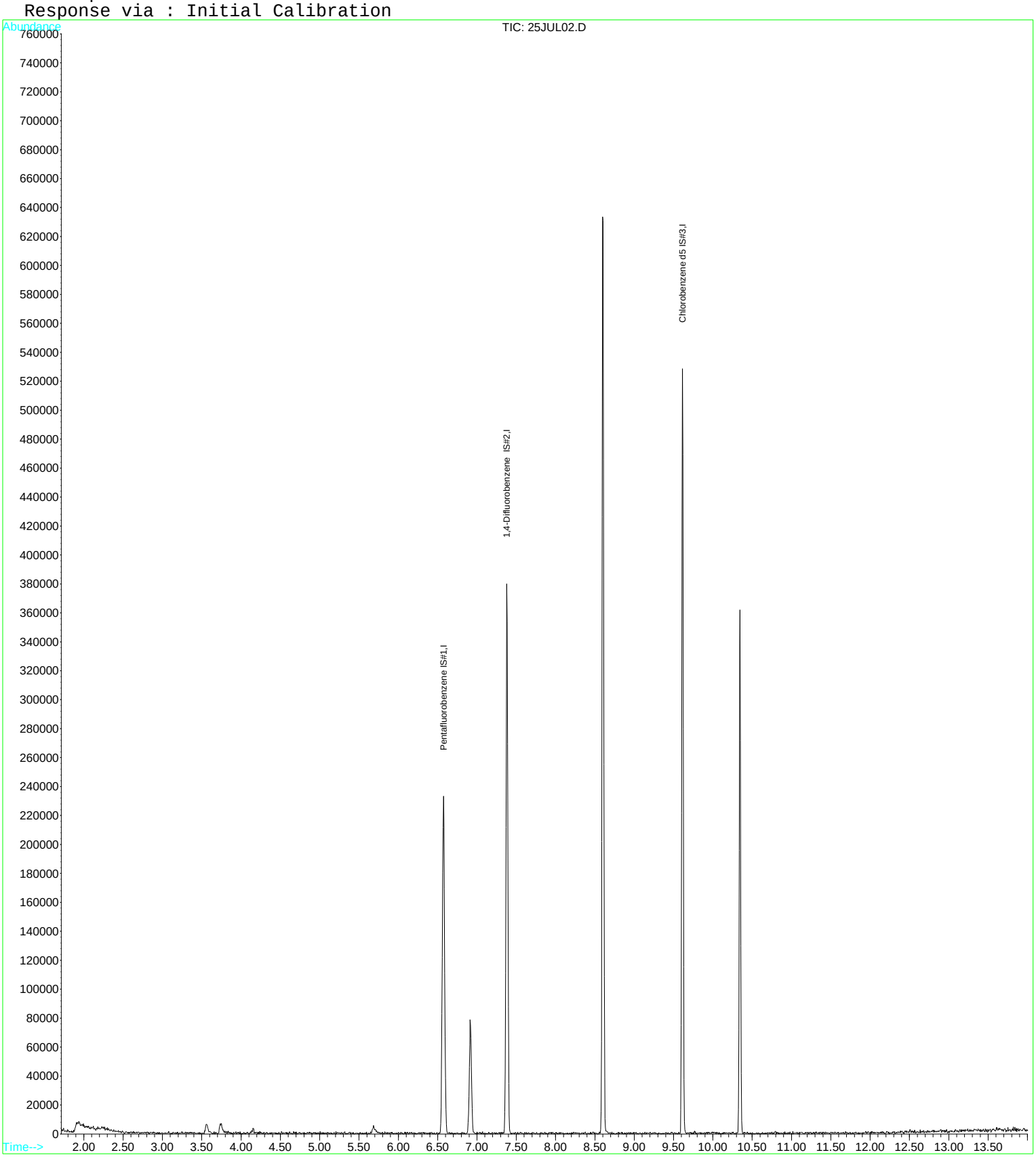
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL02.D Vial: 2
Acq On : 25 Jul 2017 6:01 am Operator: MGC
Sample : 1720018-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:26 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL03.D Vial: 3
Acq On : 25 Jul 2017 6:24 am Operator: MGC
Sample : 1720018-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:27 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	155121	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	237540	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	61668	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	45474	10.04	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.40%			
31) Toluene d8 SMC#2	8.60	98	288720	9.84	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.40%			
49) Bromofluorobenzene SMC#3	10.35	95	93178	10.12	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.20%			

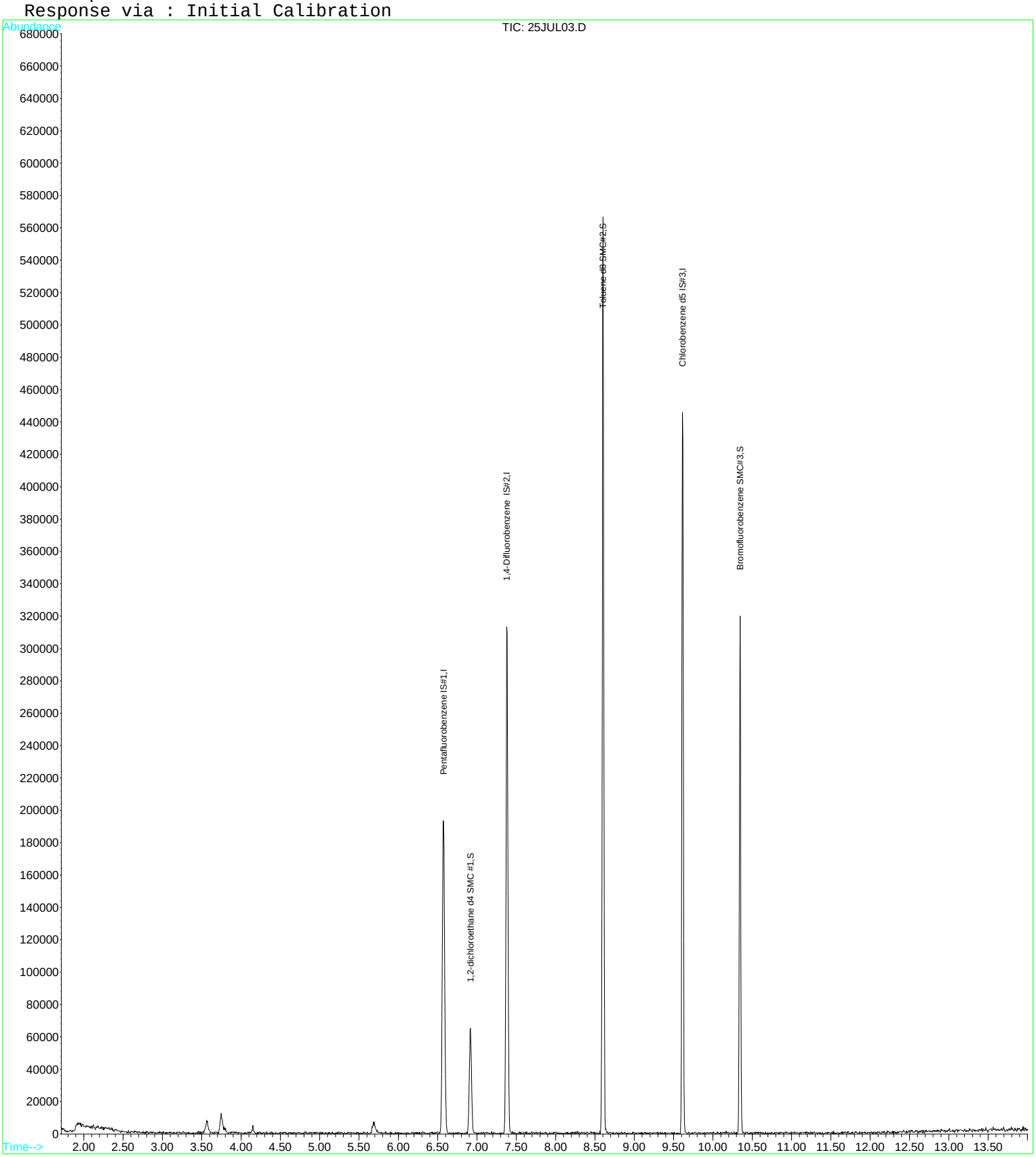
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL03.D Vial: 3
Acq On : 25 Jul 2017 6:24 am Operator: MGC
Sample : 1720018-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:27 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL03.D Vial: 3
Acq On : 25 Jul 2017 6:24 am Operator: MGC
Sample : 1720018-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:27 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	155121	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	237540	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	61668	10.00	ug/L	0.00

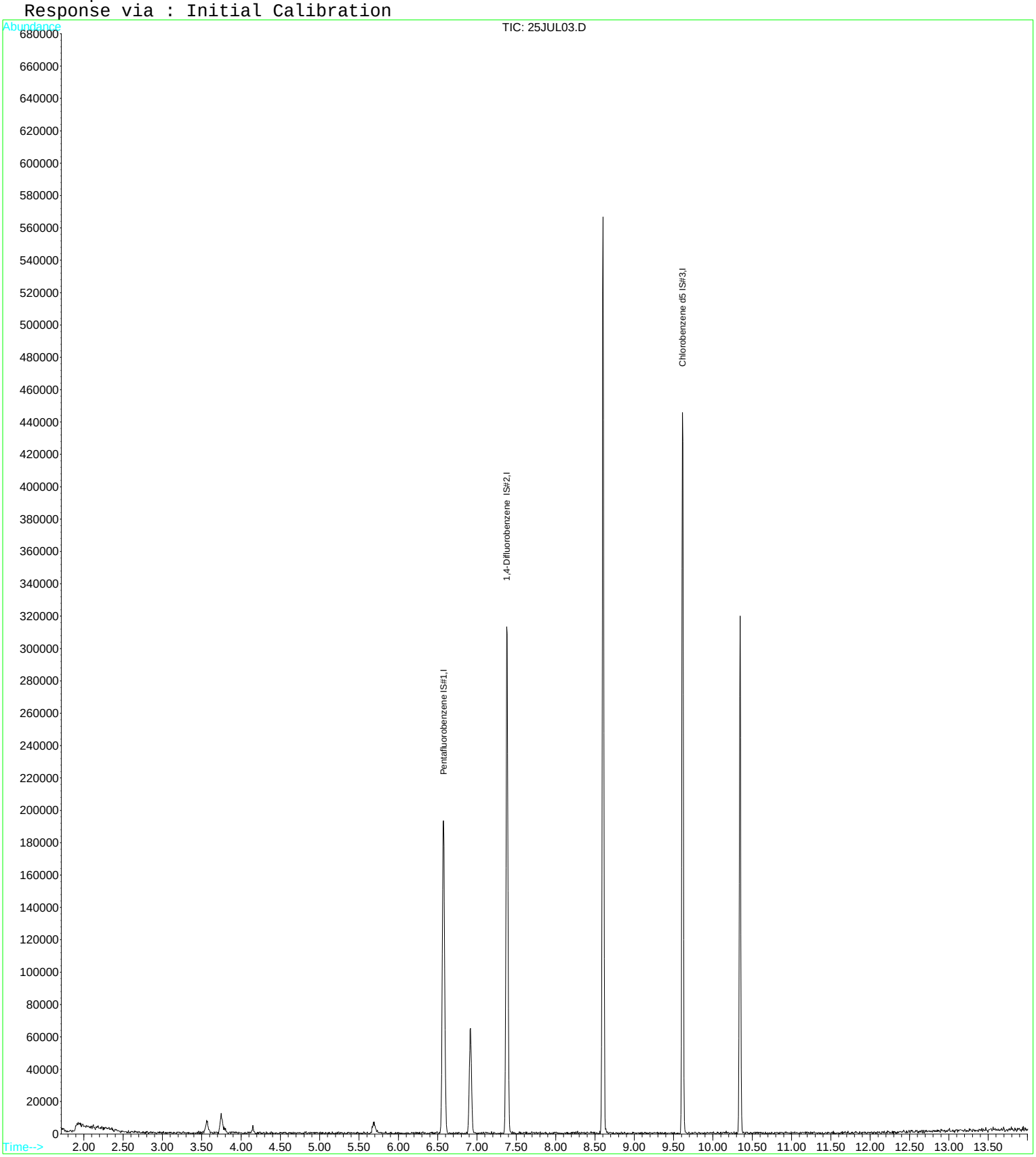
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL03.D Vial: 3
Acq On : 25 Jul 2017 6:24 am Operator: MGC
Sample : 1720018-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:27 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
Acq On : 20 Jul 2017 8:32 am Operator: MGC
Sample : 1712752-CAL1 Inst : MS-V5
Misc : 1 VO-109-70507;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	217011	10.00 ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	336200	10.00 ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	90897	10.00 ug/L	0.00

System Monitoring Compounds					
21) 1,2-dichloroethane d4 SMC	6.92	65	65374	10.06 ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.60%					
31) Toluene d8 SMC#2	8.60	98	410267	9.86 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.60%					
49) Bromofluorobenzene SMC#3	10.35	95	130298	9.68 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.80%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.76	85	4360	0.36 ug/L	90
3) Chloromethane	1.94	50	11998	0.58 ug/L	99
4) Vinyl chloride	2.07	62	8395	0.50 ug/L #	69
5) Bromomethane	2.43	94	4401	0.93 ug/L #	72
6) Chloroethane	2.57	64	6138	0.57 ug/L	93
7) Trichlorofluoromethane	2.86	101	6131	0.41 ug/L #	76
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	4044	0.42 ug/L #	84
9) 1,1-Dichloroethene	3.52	61	8614	0.47 ug/L	97
10) Methylene chloride	4.15	84	7409	0.78 ug/L	98
11) MTBE	4.49	73	6455	0.57 ug/L	85
12) T-1,2-dichloroethene	4.51	96	5712	0.50 ug/L	94
13) 1,1-Dichloroethane	5.05	63	12242	0.53 ug/L	100
14) 2,2-Dichloropropane	5.83	77	6502	3.22 ug/L #	1
15) Cis-1,2-dichloroethene	5.83	96	5837	0.52 ug/L	89
16) Bromochloromethane	6.18	128	1853	0.51 ug/L #	88
17) Chloroform	6.32	83	8555	0.51 ug/L	100
18) 1,1,1-Trichloroethane	6.53	97	6787	0.54 ug/L #	53
19) 1,1-Dichloropropene	6.73	75	7443	0.48 ug/L	94
20) Carbon tetrachloride	6.71	119	4464	1.80 ug/L #	74
22) 1,2-Dichloroethane	6.99	62	4167	0.45 ug/L #	99
23) Benzene	6.93	78	23929	0.53 ug/L	87
25) Trichloroethene	7.60	130	5562	0.45 ug/L	88
26) 1,2-Dichloropropane	7.84	63	6298	0.50 ug/L #	96
27) Dibromomethane	7.90	93	1490	0.46 ug/L #	73
28) Bromodichloromethane	8.06	83	4855	0.54 ug/L	90
29) 2-ceve	8.28	63	6159	1.92 ug/L #	95
30) Cis-1,3-dichloropropene	8.39	75	5596	1.85 ug/L #	87
32) Toluene	8.65	92	15200	0.50 ug/L	80
33) Trans-1,3-dichloropropene	8.82	75	3122	2.84 ug/L	85
34) 1,1,2-Trichloroethane	8.96	97	2429	0.48 ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	5719	0.51 ug/L #	87
36) 1,3-Dichloropropane	9.08	76	4332	0.53 ug/L #	81
37) Dibromochloromethane	9.24	129	2321	2.09 ug/L #	85
38) 1,2-Dibromoethane	9.32	107	2337	1.18 ug/L	69
40) Chlorobenzene	9.63	112	16901	0.56 ug/L	95
41) 1,1,1,2-Tetrachloroethane	9.69	131	3340	0.98 ug/L #	70
42) Ethylbenzene	9.69	106	8787	0.49 ug/L	85
43) P+m-Xylene	9.77	106	24229	1.12 ug/L	95
44) O-Xylene	10.01	106	9945	0.50 ug/L	93
45) Styrene	10.02	104	15101	0.50 ug/L	92
46) Bromoform	10.16	173	935	3.01 ug/L #	100
47) Isopropylbenzene	10.23	105	27332	0.53 ug/L	96
48) 1,1,2,2-Tetrachloroethane	10.41	83	2268	0.45 ug/L	86
50) 1,2,3-Trichloropropane	10.45	110	229	Below Cal #	100
51) n-propylbenzene	10.47	91	35646	0.54 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
Acq On : 20 Jul 2017 8:32 am Operator: MGC
Sample : 1712752-CAL1 Inst : MS-V5
Misc : 1 VO-109-70507;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

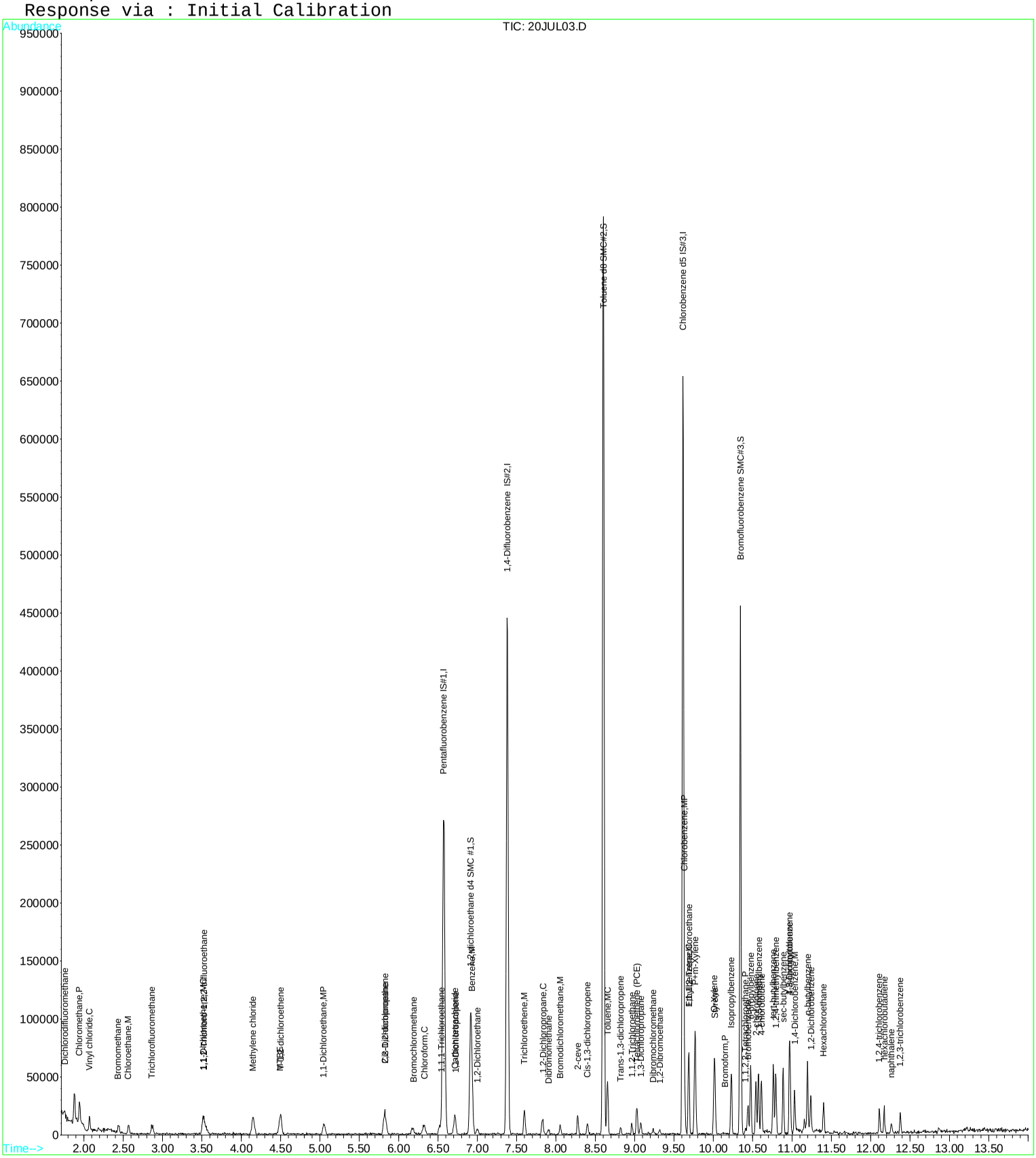
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	5541	0.53	ug/L		79
53)	1,3,5-trimethylbenzene	10.58	105	22586	0.53	ug/L		95
54)	2-chlorotoluene	10.54	91	21303	0.51	ug/L		94
55)	4-chlorotoluene	10.61	91	19917	0.51	ug/L		87
56)	tert-butylbenzene	10.77	119	21617	0.49	ug/L		98
57)	1,2,4-trimethylbenzene	10.80	105	22333	0.53	ug/L		97
58)	sec-butylbenzene	10.89	105	30496	0.53	ug/L		98
59)	4-isopropyltoluene	10.97	119	25793	0.55	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	11500	0.50	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	10889	0.47	ug/L		95
62)	n-butylbenzene	11.20	91	23084	0.53	ug/L		99
63)	1,2-Dichlorobenzene	11.24	146	10212	0.52	ug/L		96
64)	Hexachloroethane	11.40	117	2279	3.97	ug/L	#	6
66)	1,2,4-trichlorobenzene	12.11	180	5686	0.55	ug/L		94
67)	hexachlorobutadiene	12.17	225	4421	0.57	ug/L	#	70
68)	naphthalene	12.26	128	6587	0.53	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	4987	0.63	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
Acq On : 20 Jul 2017 8:32 am Operator: MGC
Sample : 1712752-CAL1 Inst : MS-V5
Misc : 1 VO-109-70507;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	219386	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	341653	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	89283	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	66214	10.08	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.80%						
31) Toluene d8 SMC#2	8.60	98	421815	9.98	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.80%						
49) Bromofluorobenzene SMC#3	10.34	95	133853	10.12	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.20%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	10205	0.84	ug/L	98
3) Chloromethane	1.95	50	21928	1.05	ug/L	97
4) Vinyl chloride	2.07	62	17214	1.01	ug/L #	76
5) Bromomethane	2.44	94	8855	1.39	ug/L #	79
6) Chloroethane	2.57	64	12085	1.10	ug/L	85
7) Trichlorofluoromethane	2.87	101	13464	0.88	ug/L #	74
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	8620	0.88	ug/L #	76
9) 1,1-Dichloroethene	3.52	61	18131	0.97	ug/L	93
10) Methylene chloride	4.15	84	10296	1.07	ug/L	86
11) MTBE	4.49	73	13643	1.20	ug/L	91
12) T-1,2-dichloroethene	4.50	96	10984	0.96	ug/L	92
13) 1,1-Dichloroethane	5.05	63	23710	1.01	ug/L	97
14) 2,2-Dichloropropane	5.83	77	12259	3.73	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	12328	1.10	ug/L #	81
16) Bromochloromethane	6.17	128	3878	1.06	ug/L #	100
17) Chloroform	6.33	83	17811	1.05	ug/L	94
18) 1,1,1-Trichloroethane	6.52	97	14284	1.11	ug/L #	74
19) 1,1-Dichloropropene	6.72	75	15992	1.02	ug/L	95
20) Carbon tetrachloride	6.71	119	8848	2.24	ug/L #	60
22) 1,2-Dichloroethane	7.00	62	9765	1.04	ug/L #	92
23) Benzene	6.93	78	48005	1.05	ug/L #	59
25) Trichloroethene	7.61	130	11662	0.94	ug/L	94
26) 1,2-Dichloropropane	7.83	63	13360	1.04	ug/L #	94
27) Dibromomethane	7.91	93	3278	0.99	ug/L #	75
28) Bromodichloromethane	8.05	83	8927	0.97	ug/L	94
29) 2-ceve	8.28	63	12934	3.96	ug/L	85
30) Cis-1,3-dichloropropene	8.40	75	11335	2.29	ug/L #	88
32) Toluene	8.65	92	29659	0.96	ug/L	82
33) Trans-1,3-dichloropropene	8.82	75	7084	3.30	ug/L	95
34) 1,1,2-Trichloroethane	8.97	97	5837	1.15	ug/L	89
35) Tetrachloroethene (PCE)	9.03	166	11556	1.01	ug/L #	89
36) 1,3-Dichloropropane	9.08	76	9108	1.10	ug/L	89
37) Dibromochloromethane	9.23	129	4037	2.38	ug/L #	87
38) 1,2-Dibromoethane	9.32	107	3858	1.51	ug/L	88
40) Chlorobenzene	9.64	112	31301	1.05	ug/L	96
41) 1,1,1,2-Tetrachloroethane	9.69	131	6727	1.47	ug/L #	59
42) Ethylbenzene	9.69	106	18778	1.06	ug/L	94
43) P+m-Xylene	9.77	106	44367	2.09	ug/L	96
44) O-Xylene	10.01	106	19724	1.01	ug/L	93
45) Styrene	10.02	104	31371	1.05	ug/L	96
46) Bromoform	10.16	173	1829	3.38	ug/L #	100
47) Isopropylbenzene	10.23	105	55335	1.09	ug/L	97
48) 1,1,2,2-Tetrachloroethane	10.41	83	4868	0.99	ug/L	96
50) 1,2,3-Trichloropropane	10.45	110	833	0.51	ug/L #	100
51) n-propylbenzene	10.47	91	67596	1.04	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

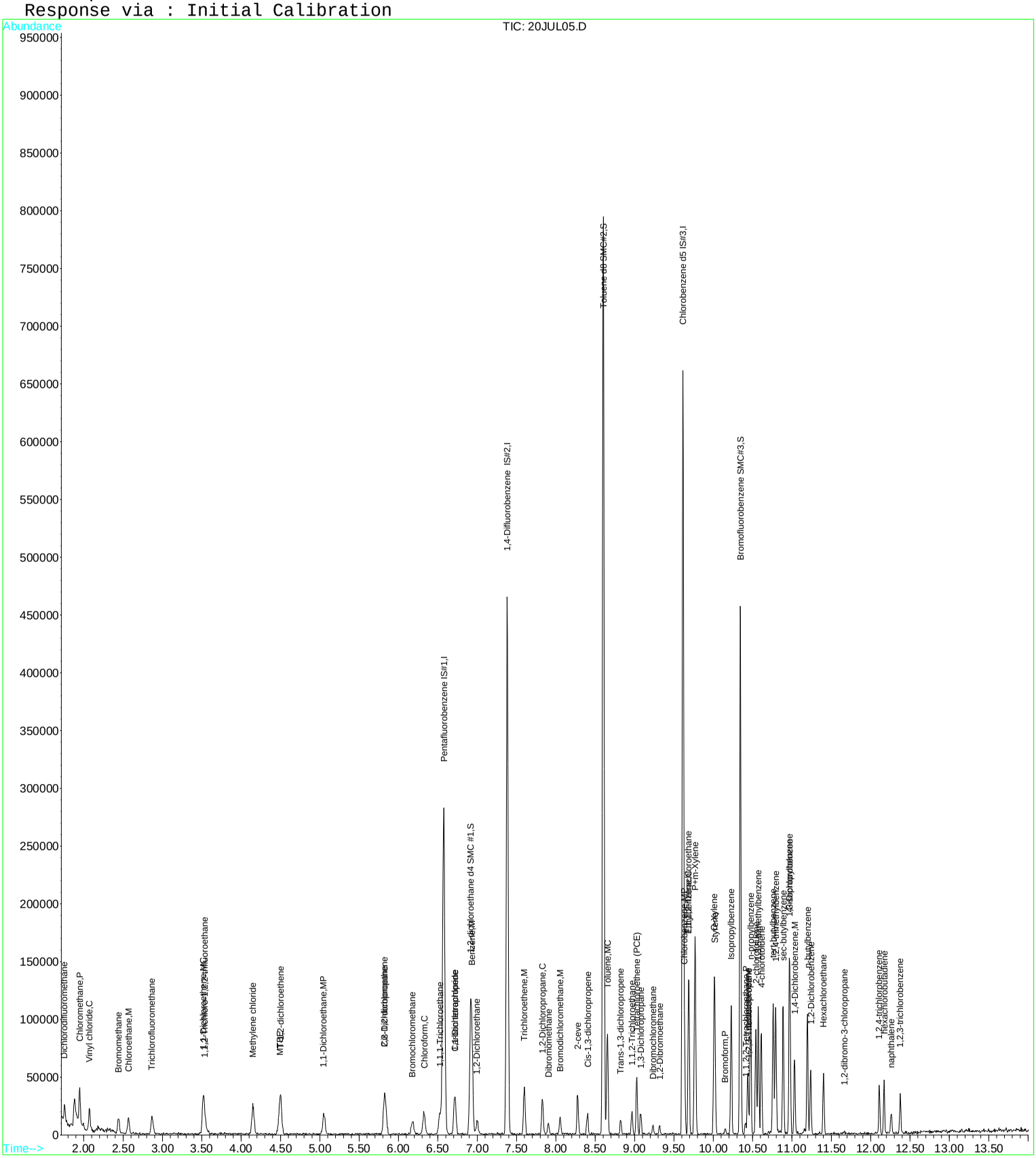
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) bromobenzene	10.44	156	10864	1.06 ug/L	85
53) 1,3,5-trimethylbenzene	10.57	105	42696	1.01 ug/L	97
54) 2-chlorotoluene	10.54	91	46110	1.12 ug/L	98
55) 4-chlorotoluene	10.61	91	40015	1.04 ug/L	95
56) tert-butylbenzene	10.76	119	41937	0.98 ug/L	96
57) 1,2,4-trimethylbenzene	10.79	105	45106	1.10 ug/L	95
58) sec-butylbenzene	10.89	105	59925	1.06 ug/L	100
59) 4-isopropyltoluene	10.97	119	48357	1.05 ug/L	99
60) 1,3-Dichlorobenzene	10.98	146	23254	1.02 ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	22114m	0.98 ug/L	
62) n-butylbenzene	11.20	91	45926	1.08 ug/L	97
63) 1,2-Dichlorobenzene	11.24	146	19114	1.00 ug/L	96
64) Hexachloroethane	11.40	117	4247	4.26 ug/L #	15
65) 1,2-dibromo-3-chloropropan	11.66	75	581	4.25 ug/L #	100
66) 1,2,4-trichlorobenzene	12.11	180	10744	1.07 ug/L	92
67) hexachlorobutadiene	12.18	225	7178	0.95 ug/L	87
68) naphthalene	12.26	128	11563	0.95 ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	8903	1.14 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

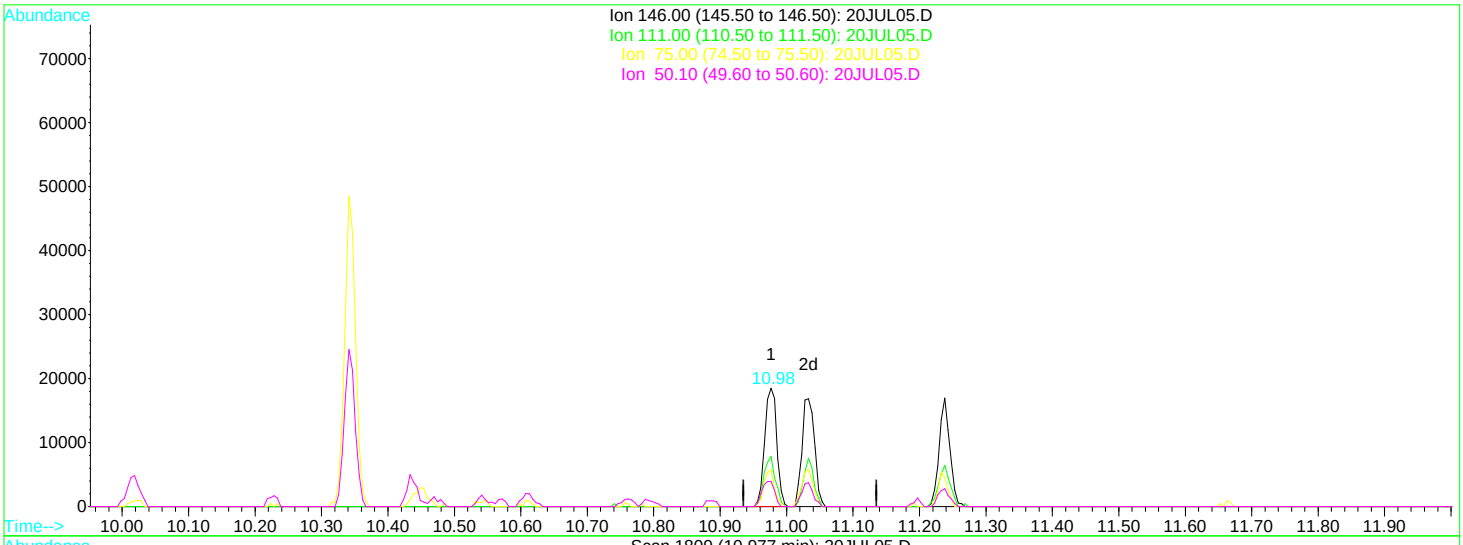
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration

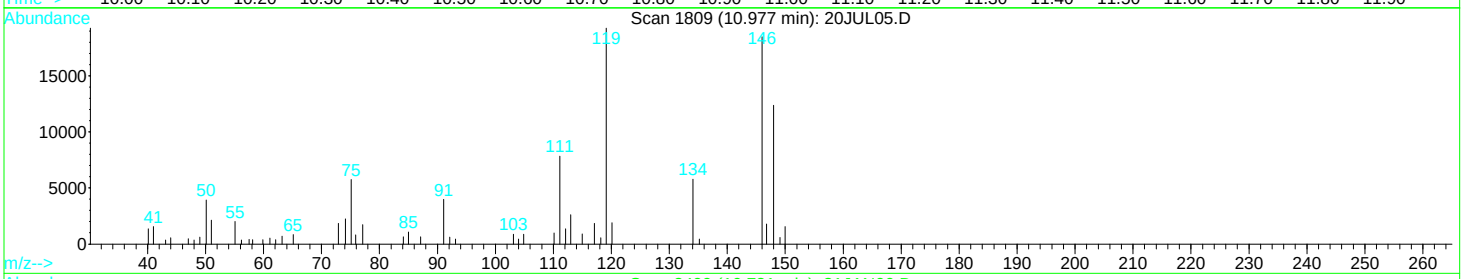


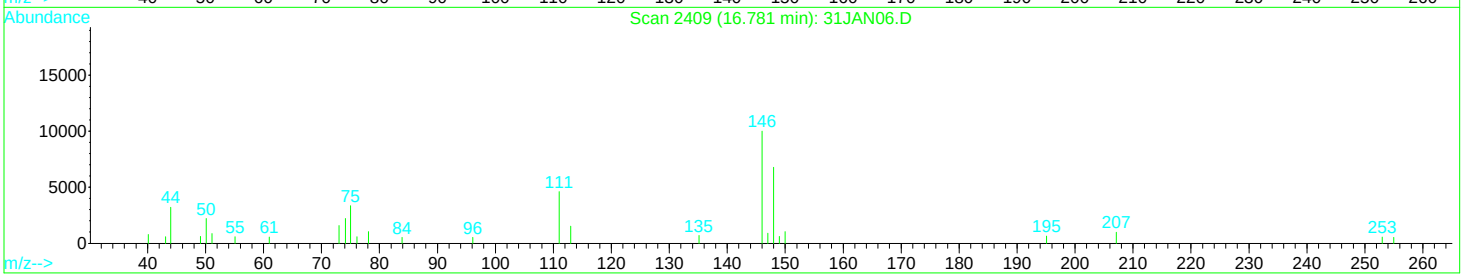
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:33 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL05.D

(61) 1,4-Dichlorobenzene (M)

10.98min 1.03ug/L

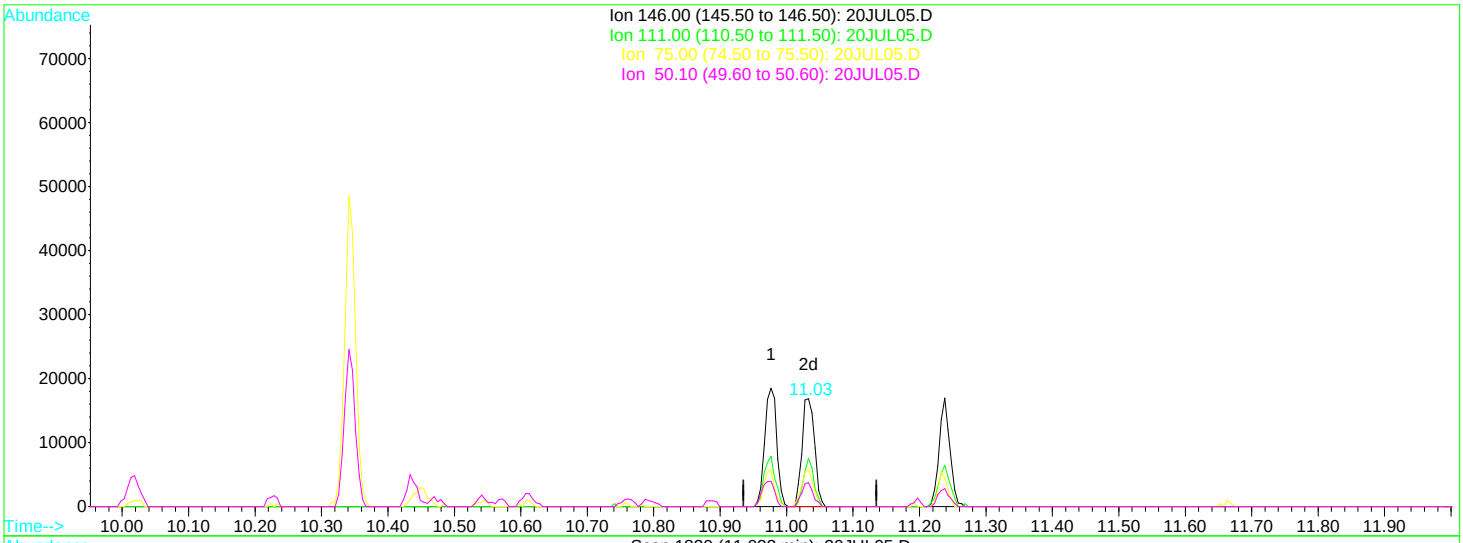
response 23250

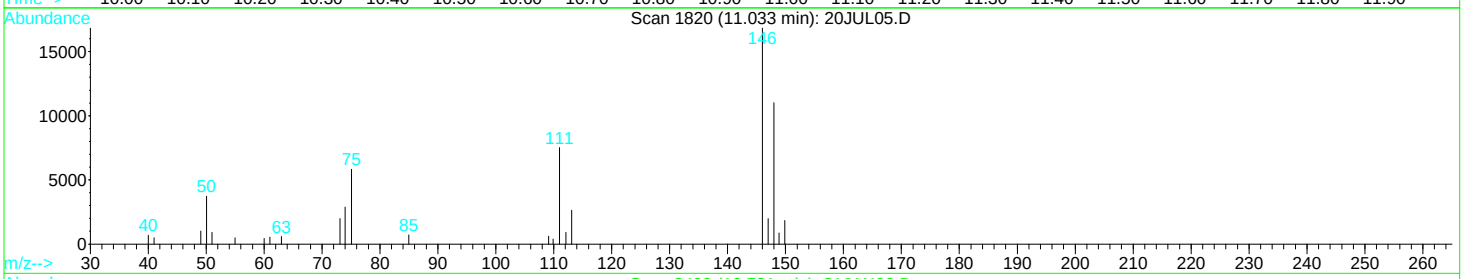
Ion	Exp%	Act%
146.00	100	100
111.00	41.60	39.83
75.00	24.40	27.84
50.10	20.80	22.45

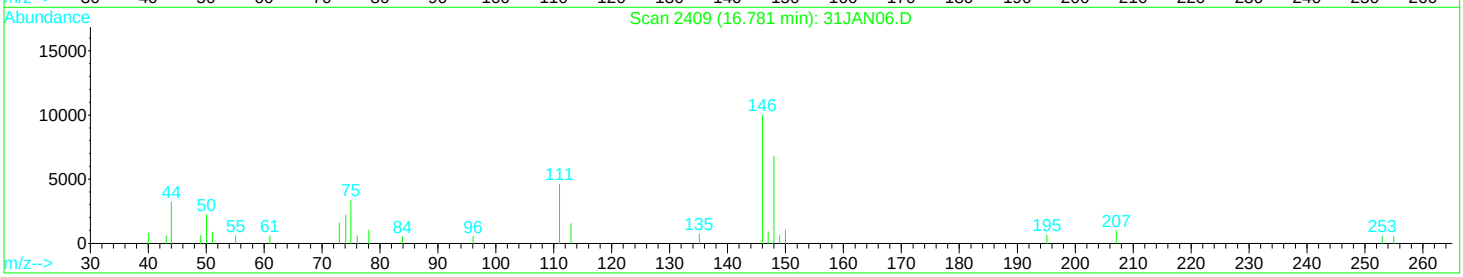
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL05.D

(61) 1,4-Dichlorobenzene (M)

11.03min 0.98ug/L m

response 22114

Ion	Exp%	Act%
146.00	100	100
111.00	41.60	41.88
75.00	24.40	29.27
50.10	20.80	23.60

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
Acq On : 20 Jul 2017 9:42 am Operator: MGC
Sample : 1712752-CAL3 Inst : MS-V5
Misc : 1 VO-109-70509;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	160100	10.00 ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	249503	10.00 ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	66101	10.00 ug/L	0.00

System Monitoring Compounds					
21) 1,2-dichloroethane d4 SMC	6.92	65	47251	9.86 ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 98.60%					
31) Toluene d8 SMC#2	8.60	98	305363	9.89 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.90%					
49) Bromofluorobenzene SMC#3	10.34	95	99307	10.14 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.40%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.76	85	93410	10.56 ug/L	97
3) Chloromethane	1.95	50	157755	10.37 ug/L	100
4) Vinyl chloride	2.07	62	127041	10.21 ug/L	93
5) Bromomethane	2.44	94	67152	10.11 ug/L #	82
6) Chloroethane	2.57	64	86319	10.80 ug/L	87
7) Trichlorofluoromethane	2.87	101	107360	9.66 ug/L #	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	76401	10.68 ug/L	83
9) 1,1-Dichloroethene	3.52	61	141074	10.35 ug/L	97
10) Methylene chloride	4.15	84	73501	10.52 ug/L	96
11) MTBE	4.48	73	100477	12.07 ug/L	95
12) T-1,2-dichloroethene	4.50	96	85020	10.16 ug/L	95
13) 1,1-Dichloroethane	5.05	63	180828	10.54 ug/L	99
14) 2,2-Dichloropropane	5.83	77	102464	15.11 ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	85789	10.46 ug/L	89
16) Bromochloromethane	6.17	128	27302	10.21 ug/L #	77
17) Chloroform	6.33	83	124834	10.10 ug/L	93
18) 1,1,1-Trichloroethane	6.53	97	109656	11.72 ug/L #	78
19) 1,1-Dichloropropene	6.72	75	116536	10.14 ug/L	98
20) Carbon tetrachloride	6.71	119	77032	12.04 ug/L #	71
22) 1,2-Dichloroethane	7.00	62	70301	10.30 ug/L #	84
23) Benzene	6.94	78	348744	10.48 ug/L #	17
25) Trichloroethene	7.60	130	89913	9.88 ug/L	93
26) 1,2-Dichloropropane	7.83	63	97205	10.36 ug/L #	94
27) Dibromomethane	7.91	93	25725	10.65 ug/L #	76
28) Bromodichloromethane	8.05	83	73643	10.96 ug/L	99
29) 2-ceve	8.27	63	104717	43.90 ug/L #	75
30) Cis-1,3-dichloropropene	8.40	75	92090	11.19 ug/L #	82
32) Toluene	8.65	92	234614	10.35 ug/L	89
33) Trans-1,3-dichloropropene	8.82	75	61028	12.36 ug/L	97
34) 1,1,2-Trichloroethane	8.96	97	40551	10.91 ug/L	91
35) Tetrachloroethene (PCE)	9.03	166	86256	10.34 ug/L	90
36) 1,3-Dichloropropane	9.08	76	62221	10.30 ug/L	87
37) Dibromochloromethane	9.24	129	37739	10.50 ug/L #	78
38) 1,2-Dibromoethane	9.32	107	34074	10.91 ug/L #	67
40) Chlorobenzene	9.64	112	223358	10.12 ug/L	94
41) 1,1,1,2-Tetrachloroethane	9.69	131	55627	11.02 ug/L #	72
42) Ethylbenzene	9.69	106	136417	10.36 ug/L	99
43) P+m-Xylene	9.77	106	342735	21.77 ug/L	97
44) O-Xylene	10.01	106	159918	11.03 ug/L	90
45) Styrene	10.02	104	239018	10.79 ug/L	94
46) Bromoform	10.15	173	15682	11.19 ug/L #	100
47) Isopropylbenzene	10.23	105	416077	11.04 ug/L	94
48) 1,1,2,2-Tetrachloroethane	10.41	83	35710	9.83 ug/L	90
50) 1,2,3-Trichloropropane	10.45	110	7290	8.79 ug/L #	100
51) n-propylbenzene	10.48	91	526001	10.88 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
Acq On : 20 Jul 2017 9:42 am Operator: MGC
Sample : 1712752-CAL3 Inst : MS-V5
Misc : 1 VO-109-70509;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

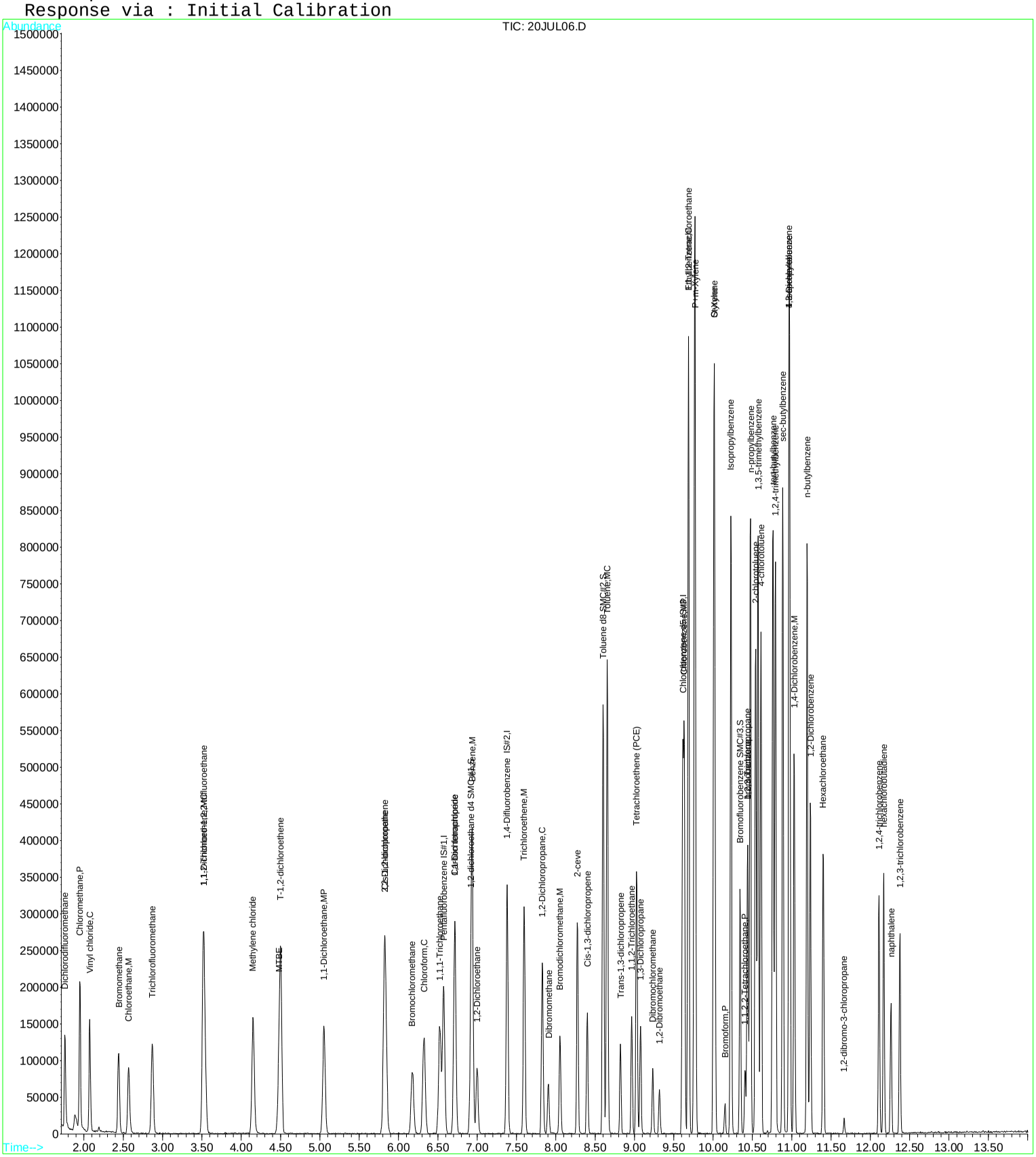
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52) bromobenzene	10.44	156	77430	10.19	ug/L		92
53) 1,3,5-trimethylbenzene	10.57	105	346993	11.13	ug/L		98
54) 2-chlorotoluene	10.54	91	333425	10.98	ug/L		97
55) 4-chlorotoluene	10.61	91	306897	10.82	ug/L		91
56) tert-butylbenzene	10.76	119	322495	10.13	ug/L		95
57) 1,2,4-trimethylbenzene	10.79	105	335852	11.03	ug/L		99
58) sec-butylbenzene	10.89	105	468278	11.21	ug/L		98
59) 4-isopropyltoluene	10.97	119	378285	11.11	ug/L		98
60) 1,3-Dichlorobenzene	10.97	146	178686	10.59	ug/L		92
61) 1,4-Dichlorobenzene	11.03	146	170376	10.17	ug/L		95
62) n-butylbenzene	11.19	91	345036	10.94	ug/L		99
63) 1,2-Dichlorobenzene	11.23	146	148352	10.47	ug/L		97
64) Hexachloroethane	11.40	117	44652	12.34	ug/L	#	1
65) 1,2-dibromo-3-chloropropan	11.66	75	4603	12.55	ug/L	#	100
66) 1,2,4-trichlorobenzene	12.11	180	81142	10.87	ug/L		96
67) hexachlorobutadiene	12.17	225	56205	10.05	ug/L		85
68) naphthalene	12.26	128	107810	11.94	ug/L		100
69) 1,2,3-trichlorobenzene	12.38	180	69823	12.11	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
Acq On : 20 Jul 2017 9:42 am Operator: MGC
Sample : 1712752-CAL3 Inst : MS-V5
Misc : 1 VO-109-70509;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
Acq On : 20 Jul 2017 10:05 am Operator: MGC
Sample : 1712752-CAL4 Inst : MS-V5
Misc : 1 VO-109-70510;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187618	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281102	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72968	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	55567	9.89	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 98.90%						
31) Toluene d8 SMC#2	8.60	98	350702	10.08	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.80%						
49) Bromofluorobenzene SMC#3	10.34	95	110978	10.27	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 102.70%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	233707	22.55	ug/L	95
3) Chloromethane	1.95	50	397043	22.27	ug/L	96
4) Vinyl chloride	2.07	62	330883	22.69	ug/L	89
5) Bromomethane	2.44	94	180127	22.55	ug/L #	82
6) Chloroethane	2.56	64	220423	23.54	ug/L	91
7) Trichlorofluoromethane	2.87	101	282193	21.68	ug/L #	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	196960	23.49	ug/L	84
9) 1,1-Dichloroethene	3.51	61	361355	22.61	ug/L	97
10) Methylene chloride	4.15	84	189832	23.17	ug/L	96
11) MTBE	4.48	73	268374	27.51	ug/L	95
12) T-1,2-dichloroethene	4.50	96	220131	22.45	ug/L	95
13) 1,1-Dichloroethane	5.05	63	474319	23.59	ug/L	100
14) 2,2-Dichloropropane	5.83	77	271108	30.80	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	227870	23.70	ug/L	87
16) Bromochloromethane	6.18	128	72379	23.10	ug/L #	84
17) Chloroform	6.32	83	330492	22.81	ug/L	94
18) 1,1,1-Trichloroethane	6.53	97	295919	26.99	ug/L #	73
19) 1,1-Dichloropropene	6.71	75	298538	22.18	ug/L	97
20) Carbon tetrachloride	6.71	119	208396	26.04	ug/L #	68
22) 1,2-Dichloroethane	7.00	62	180628	22.58	ug/L #	84
23) Benzene	6.94	78	899294	23.06	ug/L #	13
25) Trichloroethene	7.60	130	235207	22.95	ug/L	94
26) 1,2-Dichloropropane	7.83	63	261395	24.72	ug/L #	93
27) Dibromomethane	7.91	93	63746	23.43	ug/L #	75
28) Bromodichloromethane	8.05	83	200332	26.46	ug/L	98
29) 2-ceve	8.27	63	274355	102.09	ug/L #	76
30) Cis-1,3-dichloropropene	8.40	75	254046	25.36	ug/L #	83
32) Toluene	8.65	92	598158	23.41	ug/L	89
33) Trans-1,3-dichloropropene	8.82	75	172658	27.30	ug/L	96
34) 1,1,2-Trichloroethane	8.96	97	106093	25.33	ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	219320	23.35	ug/L	91
36) 1,3-Dichloropropane	9.08	76	171822	25.25	ug/L	89
37) Dibromochloromethane	9.24	129	109837	24.44	ug/L #	77
38) 1,2-Dibromoethane	9.32	107	87501	24.03	ug/L	74
40) Chlorobenzene	9.64	112	590580	24.23	ug/L	93
41) 1,1,1,2-Tetrachloroethane	9.69	131	157573	27.47	ug/L #	72
42) Ethylbenzene	9.69	106	352215	24.23	ug/L	98
43) P+m-Xylene	9.77	106	860494	49.52	ug/L	95
44) O-Xylene	10.01	106	412366	25.76	ug/L	89
45) Styrene	10.02	104	624390	25.53	ug/L	94
46) Bromoform	10.15	173	46962	25.84	ug/L #	100
47) Isopropylbenzene	10.23	105	1059489	25.47	ug/L	93
48) 1,1,2,2-Tetrachloroethane	10.41	83	103328	25.76	ug/L	92
50) 1,2,3-Trichloropropane	10.45	110	23022	25.64	ug/L #	100
51) n-propylbenzene	10.48	91	1289258	24.16	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
Acq On : 20 Jul 2017 10:05 am Operator: MGC
Sample : 1712752-CAL4 Inst : MS-V5
Misc : 1 VO-109-70510;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

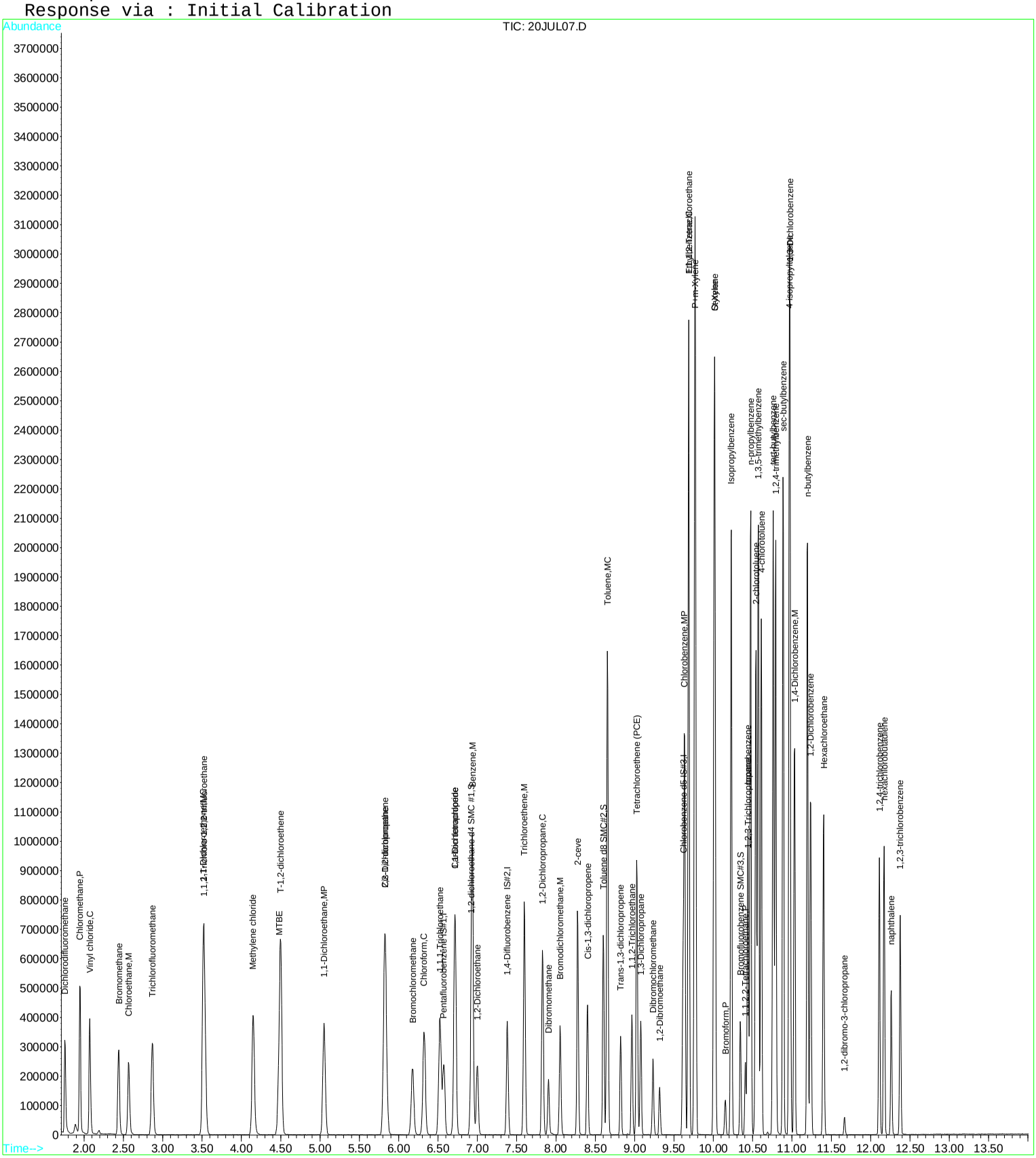
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	208206	24.82	ug/L		88
53)	1,3,5-trimethylbenzene	10.57	105	881972	25.63	ug/L		98
54)	2-chlorotoluene	10.54	91	849225	25.34	ug/L		97
55)	4-chlorotoluene	10.61	91	776277	24.79	ug/L		90
56)	tert-butylbenzene	10.76	119	911734	25.94	ug/L		89
57)	1,2,4-trimethylbenzene	10.79	105	846058	25.17	ug/L		97
58)	sec-butylbenzene	10.89	105	1197671	25.96	ug/L		99
59)	4-isopropyltoluene	10.97	119	962264	25.59	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	457160	24.54	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	450868	24.37	ug/L		96
62)	n-butylbenzene	11.20	91	877934	25.21	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	388191	24.82	ug/L		97
64)	Hexachloroethane	11.40	117	142974	28.86	ug/L	#	1
65)	1,2-dibromo-3-chloropropan	11.67	75	14154	28.88	ug/L	#	100
66)	1,2,4-trichlorobenzene	12.11	180	228207	27.70	ug/L		96
67)	hexachlorobutadiene	12.17	225	156478	25.35	ug/L		82
68)	naphthalene	12.26	128	294245	29.51	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	186210	29.25	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
Acq On : 20 Jul 2017 10:05 am Operator: MGC
Sample : 1712752-CAL4 Inst : MS-V5
Misc : 1 VO-109-70510;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
Acq On : 20 Jul 2017 10:28 am Operator: MGC
Sample : 1712752-CAL5 Inst : MS-V5
Misc : 1 VO-109-70511;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185328	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	283937	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	75612	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	52177	9.40	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 94.00%							
31) Toluene d8 SMC#2	8.60	98	352702	10.04	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.40%							
49) Bromofluorobenzene SMC#3	10.34	95	113132	10.10	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.00%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	489050	47.78	ug/L		95
3) Chloromethane	1.95	50	811231	46.07	ug/L		96
4) Vinyl chloride	2.07	62	680952	47.28	ug/L		90
5) Bromomethane	2.44	94	383525	48.08	ug/L	#	81
6) Chloroethane	2.57	64	450541	48.70	ug/L		91
7) Trichlorofluoromethane	2.87	101	583179	45.35	ug/L	#	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	406766	49.12	ug/L		82
9) 1,1-Dichloroethene	3.51	61	746260	47.28	ug/L		98
10) Methylene chloride	4.15	84	382650	47.29	ug/L		97
11) MTBE	4.48	73	565037	58.65	ug/L		96
12) T-1,2-dichloroethene	4.50	96	456593	47.14	ug/L		94
13) 1,1-Dichloroethane	5.05	63	985020	49.59	ug/L		99
14) 2,2-Dichloropropane	5.83	77	578292	63.44	ug/L	#	1
15) Cis-1,2-dichloroethene	5.82	96	470220	49.51	ug/L		87
16) Bromochloromethane	6.17	128	150553	48.65	ug/L	#	84
17) Chloroform	6.32	83	686790	47.99	ug/L		94
18) 1,1,1-Trichloroethane	6.53	97	626987	57.90	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	627972	47.22	ug/L		98
20) Carbon tetrachloride	6.71	119	445807	54.82	ug/L	#	65
22) 1,2-Dichloroethane	7.00	62	371453	47.00	ug/L	#	85
23) Benzene	6.94	78	1825949	47.40	ug/L	#	12
25) Trichloroethene	7.60	130	495793	47.88	ug/L		95
26) 1,2-Dichloropropane	7.83	63	539026	50.47	ug/L	#	93
27) Dibromomethane	7.90	93	138763	50.50	ug/L	#	76
28) Bromodichloromethane	8.05	83	423668	55.40	ug/L		98
29) 2-ceve	8.27	63	573300	211.21	ug/L	#	75
30) Cis-1,3-dichloropropene	8.40	75	542482	52.04	ug/L	#	84
32) Toluene	8.65	92	1203883	46.65	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	369933	55.15	ug/L		99
34) 1,1,2-Trichloroethane	8.96	97	215153	50.87	ug/L		92
35) Tetrachloroethene (PCE)	9.03	166	458944	48.37	ug/L		91
36) 1,3-Dichloropropane	9.08	76	359418	52.30	ug/L		89
37) Dibromochloromethane	9.23	129	236453	50.18	ug/L	#	79
38) 1,2-Dibromoethane	9.32	107	185626	49.73	ug/L		73
40) Chlorobenzene	9.64	112	1199627	47.50	ug/L		94
41) 1,1,1,2-Tetrachloroethane	9.69	131	335607	55.90	ug/L		74
42) Ethylbenzene	9.69	106	728758	48.38	ug/L		88
43) P+m-Xylene	9.77	106	1720122	95.52	ug/L		88
44) O-Xylene	10.01	106	820982	49.50	ug/L		89
45) Styrene	10.02	104	1265285	49.93	ug/L		94
46) Bromoform	10.15	173	103405	51.93	ug/L	#	100
47) Isopropylbenzene	10.23	105	2058135	47.75	ug/L		91
48) 1,1,2,2-Tetrachloroethane	10.40	83	209018	50.28	ug/L		88
50) 1,2,3-Trichloropropane	10.45	110	46293	49.99	ug/L	#	100
51) n-propylbenzene	10.48	91	2486908	44.98	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
Acq On : 20 Jul 2017 10:28 am Operator: MGC
Sample : 1712752-CAL5 Inst : MS-V5
Misc : 1 VO-109-70511;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

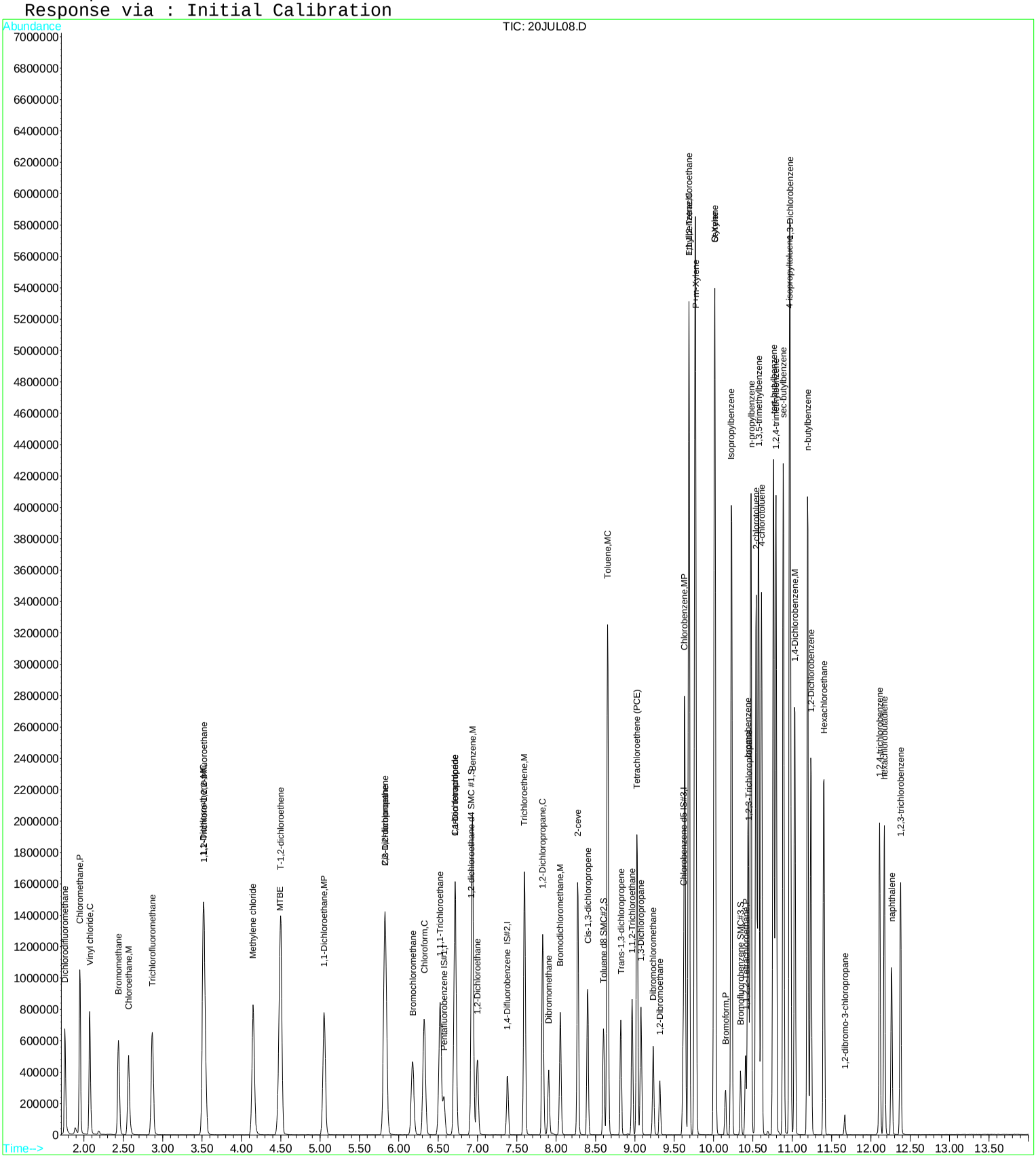
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	431566	49.65	ug/L		87
53)	1,3,5-trimethylbenzene	10.57	105	1748994	49.05	ug/L		96
54)	2-chlorotoluene	10.54	91	1732739	49.90	ug/L		94
55)	4-chlorotoluene	10.61	91	1522073	46.91	ug/L		86
56)	tert-butylbenzene	10.76	119	1651439	45.35	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	1707838	49.03	ug/L		94
58)	sec-butylbenzene	10.89	105	2289268	47.89	ug/L		95
59)	4-isopropyltoluene	10.97	119	1837385	47.16	ug/L		96
60)	1,3-Dichlorobenzene	10.98	146	927038	48.02	ug/L		93
61)	1,4-Dichlorobenzene	11.03	146	927481	48.39	ug/L		95
62)	n-butylbenzene	11.19	91	1757111	48.70	ug/L		96
63)	1,2-Dichlorobenzene	11.24	146	816300	50.36	ug/L		95
64)	Hexachloroethane	11.40	117	338530	61.25	ug/L	#	1
65)	1,2-dibromo-3-chloropropan	11.66	75	28130	52.27	ug/L	#	100
66)	1,2,4-trichlorobenzene	12.11	180	488995	57.27	ug/L		94
67)	hexachlorobutadiene	12.17	225	330304	51.64	ug/L		81
68)	naphthalene	12.26	128	645395	62.47	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	404558	61.33	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
Acq On : 20 Jul 2017 10:28 am Operator: MGC
Sample : 1712752-CAL5 Inst : MS-V5
Misc : 1 VO-109-70511;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	190235	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291095	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	79131	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52606	9.24	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 92.40%						
31) Toluene d8 SMC#2	8.60	98	361125	10.02	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.20%						
49) Bromofluorobenzene SMC#3	10.35	95	119244	10.17	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.70%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	968491	92.18	ug/L	94
3) Chloromethane	1.95	50	1582330	87.55	ug/L	95
4) Vinyl chloride	2.07	62	1339863	90.62	ug/L	90
5) Bromomethane	2.43	94	784813	95.38	ug/L #	82
6) Chloroethane	2.56	64	904760	95.28	ug/L	91
7) Trichlorofluoromethane	2.86	101	1169918	88.63	ug/L #	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	827800	97.39	ug/L	82
9) 1,1-Dichloroethene	3.51	61	1454487	89.77	ug/L	96
10) Methylene chloride	4.15	84	782570	94.22	ug/L	99
11) MTBE	4.48	73	1135341	114.80	ug/L	96
12) T-1,2-dichloroethene	4.50	96	923699	92.92	ug/L	91
13) 1,1-Dichloroethane	5.05	63	1917451	94.05	ug/L	99
14) 2,2-Dichloropropane	5.83	77	1166561	122.13	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	959200	98.40	ug/L	85
16) Bromochloromethane	6.18	128	311515	98.07	ug/L #	90
17) Chloroform	6.32	83	1363741	92.83	ug/L	92
18) 1,1,1-Trichloroethane	6.52	97	1261866	113.52	ug/L #	70
19) 1,1-Dichloropropene	6.72	75	1237502	90.66	ug/L	97
20) Carbon tetrachloride	6.71	119	903203	106.90	ug/L #	66
22) 1,2-Dichloroethane	7.00	62	735383	90.65	ug/L #	86
23) Benzene	6.94	78	3475353	87.89	ug/L #	12
25) Trichloroethene	7.60	130	1001087	94.31	ug/L	95
26) 1,2-Dichloropropane	7.83	63	1075561	98.23	ug/L #	92
27) Dibromomethane	7.90	93	286571	101.73	ug/L #	76
28) Bromodichloromethane	8.05	83	869037	110.85	ug/L	98
29) 2-ceve	8.28	63	1143478	410.90	ug/L #	74
30) Cis-1,3-dichloropropene	8.40	75	1103839	101.90	ug/L #	84
32) Toluene	8.65	92	2287718	86.47	ug/L	98
33) Trans-1,3-dichloropropene	8.82	75	767736	109.12	ug/L	99
34) 1,1,2-Trichloroethane	8.97	97	446863	103.05	ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	916653	94.22	ug/L	91
36) 1,3-Dichloropropane	9.07	76	715185	101.51	ug/L	88
37) Dibromochloromethane	9.23	129	501363	101.99	ug/L #	78
38) 1,2-Dibromoethane	9.32	107	385684	100.11	ug/L	73
40) Chlorobenzene	9.63	112	2281077	86.31	ug/L	93
41) 1,1,1,2-Tetrachloroethane	9.69	131	644759	102.17	ug/L #	71
42) Ethylbenzene	9.69	106	1369792	86.89	ug/L	71
43) P+m-Xylene	9.77	106	3044741	161.56	ug/L	75
44) O-Xylene	10.01	106	1555446	89.61	ug/L	81
45) Styrene	10.02	104	2310367	87.11	ug/L	94
46) Bromoform	10.15	173	232645	108.61	ug/L #	100
47) Isopropylbenzene	10.23	105	3519654	78.02	ug/L #	81
48) 1,1,2,2-Tetrachloroethane	10.41	83	442065	101.62	ug/L	90
50) 1,2,3-Trichloropropane	10.45	110	99524	102.96	ug/L #	100
51) n-propylbenzene	10.47	91	3994962	69.05	ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

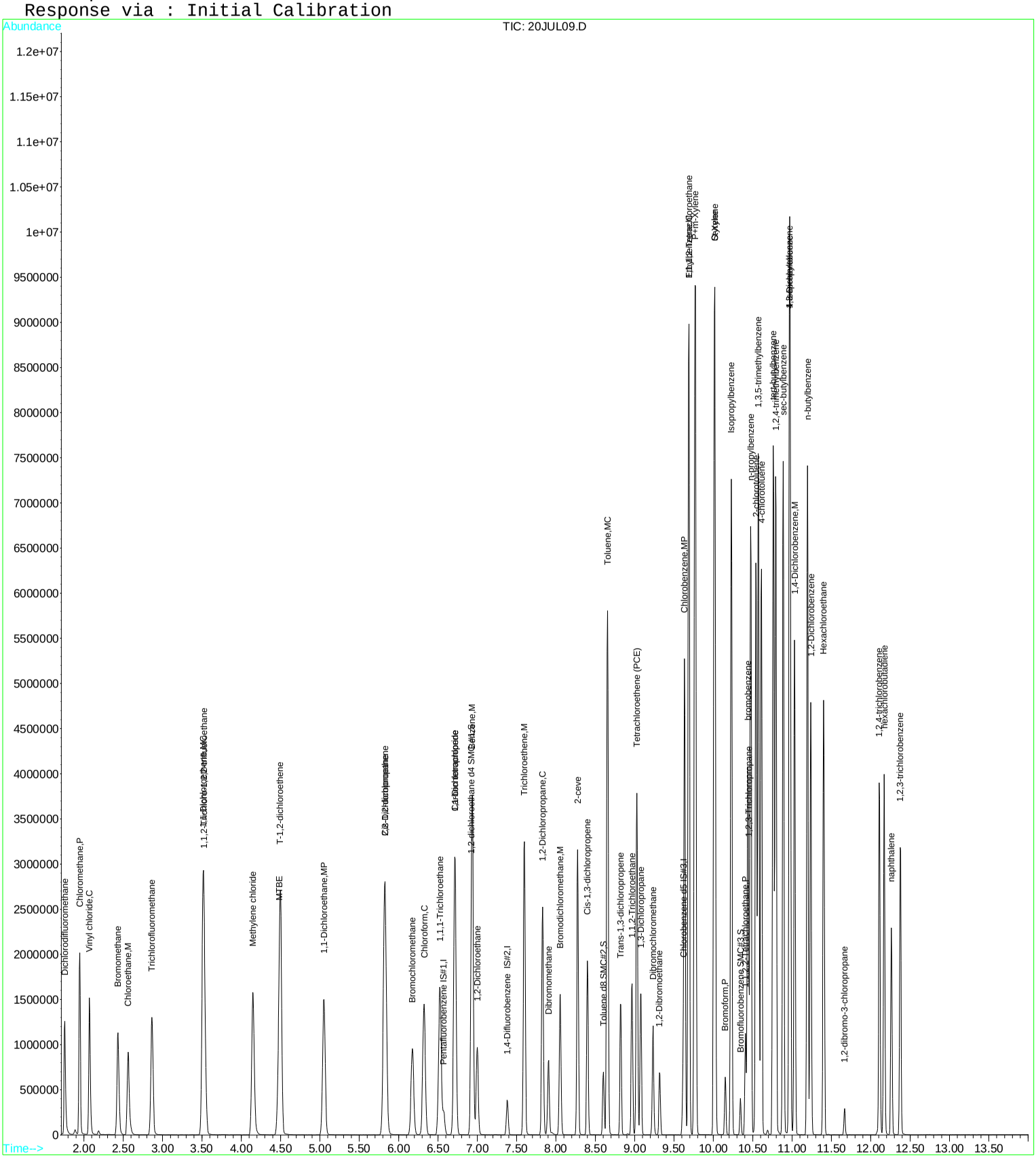
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	883596	97.12	ug/L		86
53)	1,3,5-trimethylbenzene	10.57	105	3042409	81.53	ug/L		88
54)	2-chlorotoluene	10.54	91	3108517	85.54	ug/L		88
55)	4-chlorotoluene	10.61	91	2812921m	82.84	ug/L		
56)	tert-butylbenzene	10.76	119	3375108	88.55	ug/L		90
57)	1,2,4-trimethylbenzene	10.79	105	3034120	83.23	ug/L		88
58)	sec-butylbenzene	10.89	105	3766201	75.29	ug/L	#	84
59)	4-isopropyltoluene	10.97	119	3123617	76.61	ug/L		90
60)	1,3-Dichlorobenzene	10.98	146	1743457	86.30	ug/L		92
61)	1,4-Dichlorobenzene	11.03	146	1807605	90.11	ug/L		96
62)	n-butylbenzene	11.20	91	3076408	81.47	ug/L	#	89
63)	1,2-Dichlorobenzene	11.24	146	1598367	94.22	ug/L		96
64)	Hexachloroethane	11.40	117	733609	122.92	ug/L	#	1
65)	1,2-dibromo-3-chloropropan	11.67	75	63145	108.23	ug/L	#	100
66)	1,2,4-trichlorobenzene	12.11	180	1002881	112.23	ug/L		95
67)	hexachlorobutadiene	12.17	225	656383	98.06	ug/L		83
68)	naphthalene	12.26	128	1360035	125.78	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	828865	120.07	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

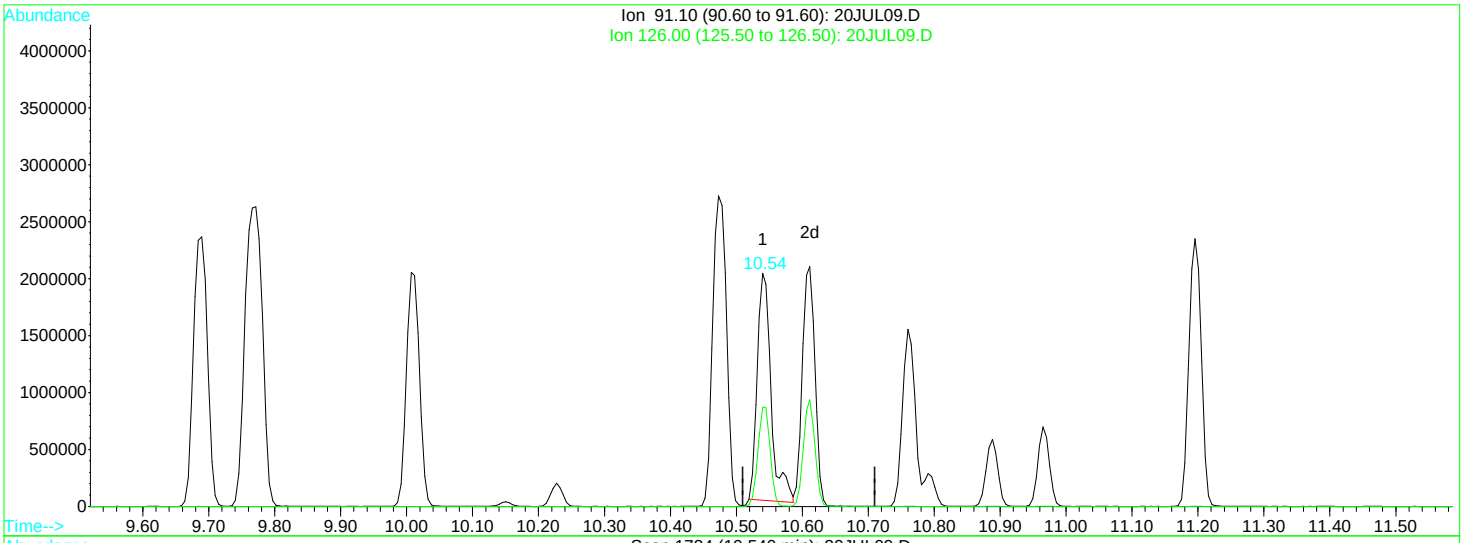
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration

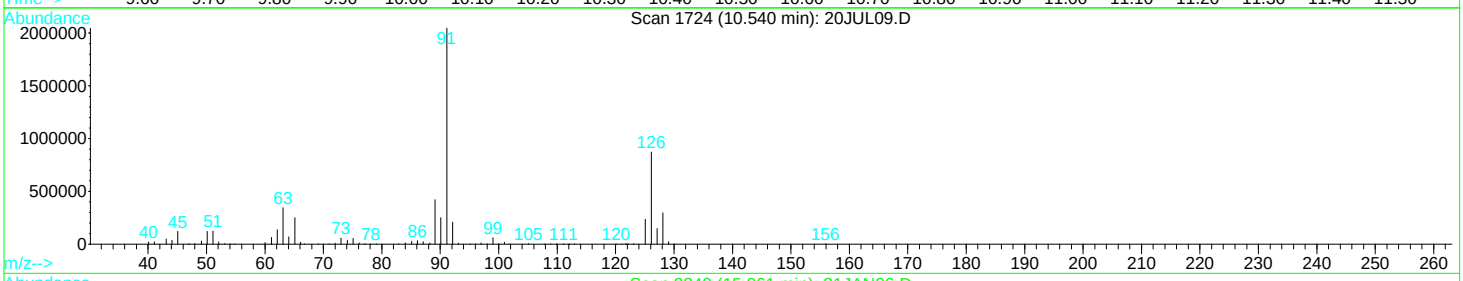


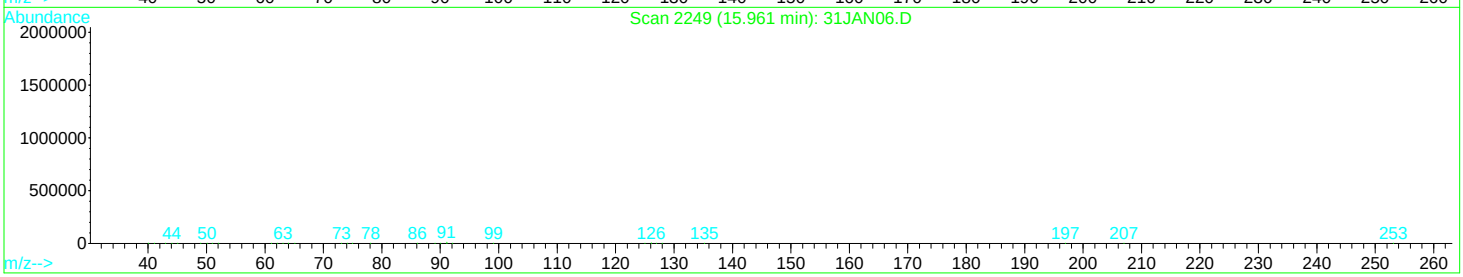
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:05 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL09.D

(55) 4-chlorotoluene

10.54min 85.95ug/L

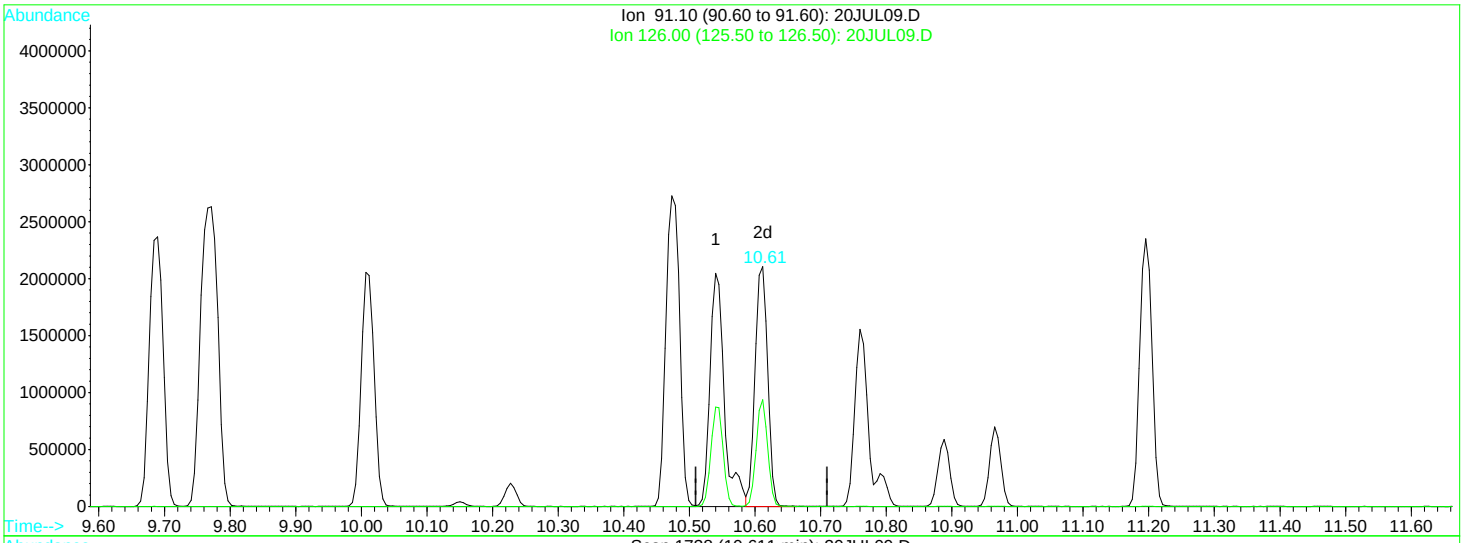
response 2918491

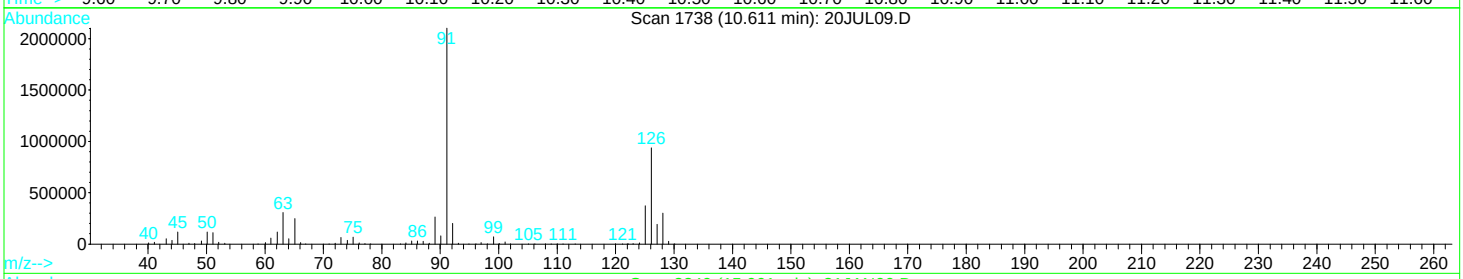
Ion	Exp%	Act%
91.10	100	100
126.00	29.80	38.19
0.00	0.00	0.00
0.00	0.00	0.00

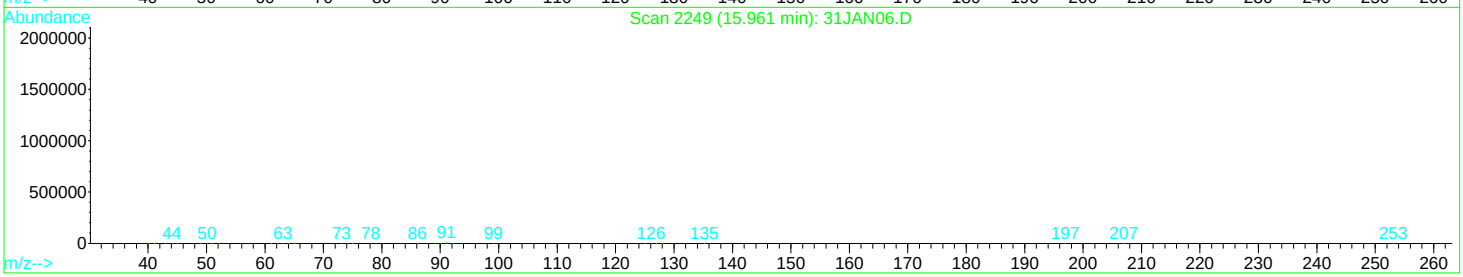
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL09.D

(55) 4-chlorotoluene

10.61min 82.84ug/L m

response 2812921

Ion	Exp%	Act%
91.10	100	100
126.00	29.80	39.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL15.D Vial: 15
Acq On : 20 Jul 2017 1:09 pm Operator: MGC
Sample : 1712752-CAL7 Inst : MS-V5
Misc : 1 VO-109-70524;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:52 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185398	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	284772	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	74464	10.00	ug/L		0.00

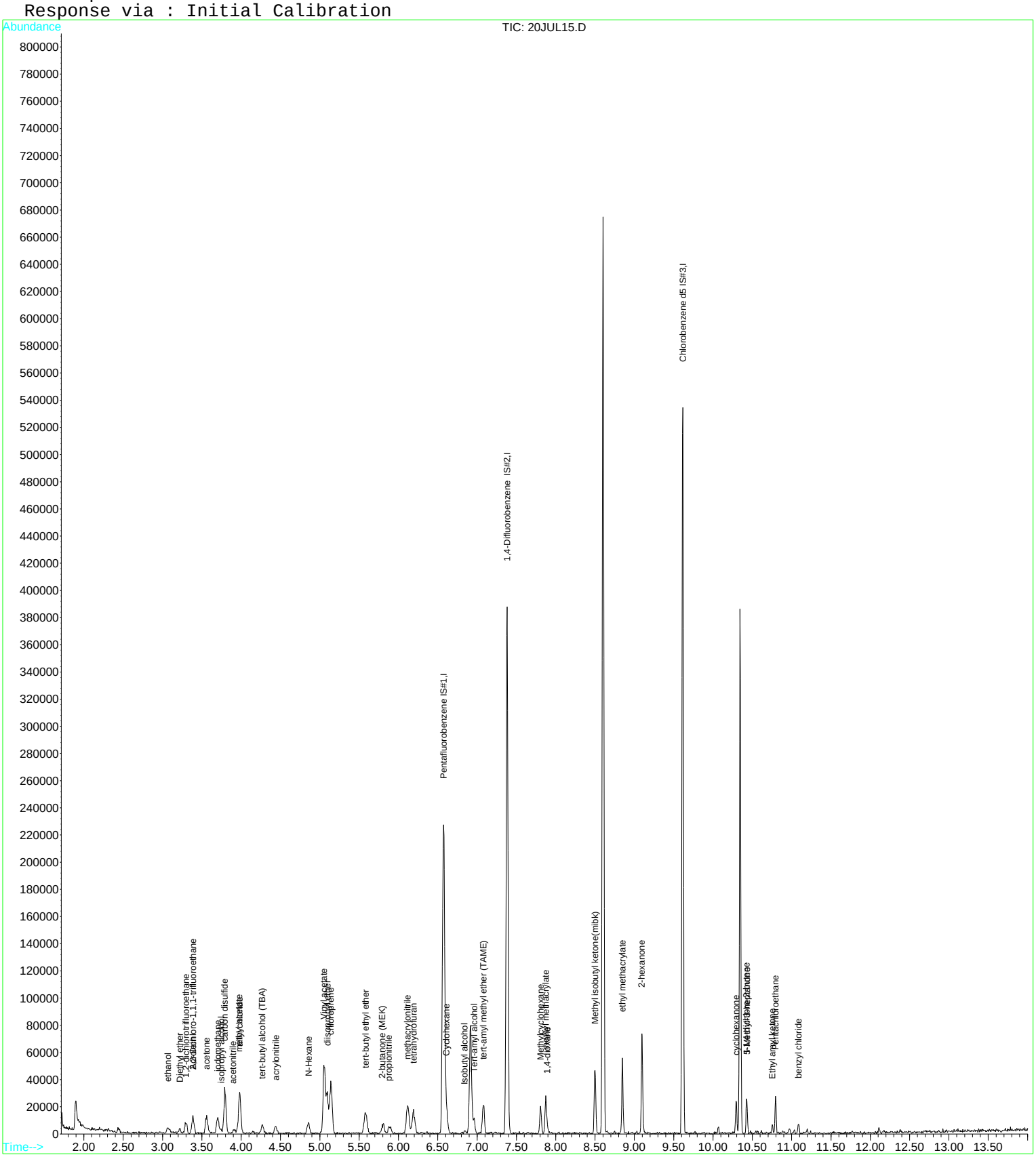
Target Compounds							Qvalue
2) ethanol	3.07	45	6669	237.41	ug/L	#	74
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	8420	0.48	ug/L	#	97
4) 1,2-dichlorotrifluoroethan	3.30	67	6359	0.54	ug/L		95
5) Diethyl ether	3.22	59	1957	0.40	ug/L		93
6) isopropyl alcohol	3.74	45	5048	38.17	ug/L	#	61
7) Acrolein	3.39	56	3657	7.77	ug/L		90
8) acetone	3.56	43	17541	21.07	ug/L		96
9) tert-butyl alcohol (TBA)	4.27	59	8481	49.09	ug/L		100
10) acetonitrile	3.90	41	3998	10.33	ug/L	#	17
11) methyl acetate	3.97	43	11350	4.98	ug/L		98
12) allyl chloride	3.98	41	31171	1.67	ug/L		99
13) iodomethane	3.70	142	15966	1.40	ug/L		99
14) acrylonitrile	4.44	53	5148	3.81	ug/L	#	94
15) carbon disulfide	3.79	76	47833	1.70	ug/L		97
16) N-Hexane	4.86	57	4627	0.37	ug/L	#	67
17) diisopropyl ether	5.10	87	6251	0.91	ug/L		97
18) Vinyl acetate	5.05	43	102573	11.40	ug/L		99
19) chloroprene	5.14	53	31785	1.57	ug/L		88
20) tert-butyl ethyl ether	5.59	59	20227	1.08	ug/L		93
21) 2-butanone (MEK)	5.79	43	12269	8.65	ug/L	#	75
22) propionitrile	5.88	54	8801	18.19	ug/L	#	93
23) Isobutyl alcohol	6.84	43	1703	58.05	ug/L	#	72
24) methacrylonitrile	6.12	67	11704	9.39	ug/L		88
25) Tert-amyl alcohol	6.96	59	7446	338.59	ug/L	#	66
26) tetrahydrofuran	6.19	42	16283	17.10	ug/L		95
27) Cyclohexane	6.61	56	13741	0.55	ug/L	#	68
28) tert-amyl methyl ether (TA	7.09	73	11082	1.05	ug/L	#	75
30) methyl methacrylate	7.87	69	9451	4.86	ug/L		99
31) Methylcyclohexane	7.80	55	7620	0.44	ug/L		89
32) 1,4-dioxane	7.89	88	2808	100.34	ug/L		84
33) Methyl isobutyl ketone(mib	8.50	43	29360	9.06	ug/L		96
34) ethyl methacrylate	8.85	69	21126	5.01	ug/L		94
35) 2-hexanone	9.09	43	40486	18.67	ug/L		98
37) 5-Methyl-3-heptanone	10.44	43	3036	0.90	ug/L	#	81
38) cyclohexanone	10.29	55	9469	52.48	ug/L		93
39) t-1,4-dichloro-2-butene	10.43	75	2405	8.17	ug/L	#	50
40) Ethyl amyl ketone	10.76	57	1285	0.43	ug/L	#	89
41) Pentachloroethane	10.79	167	2461	2.44	ug/L		89
42) benzyl chloride	11.09	91	5221	4.23	ug/L	#	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL15.D Vial: 15
Acq On : 20 Jul 2017 1:09 pm Operator: MGC
Sample : 1712752-CAL7 Inst : MS-V5
Misc : 1 VO-109-70524;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:52 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL17.D Vial: 17
Acq On : 20 Jul 2017 1:55 pm Operator: MGC
Sample : 1712752-CAL8 Inst : MS-V5
Misc : 1 VO-109-70525;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:21 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181609	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	282158	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.61	119	74489	10.00	ug/L		0.00

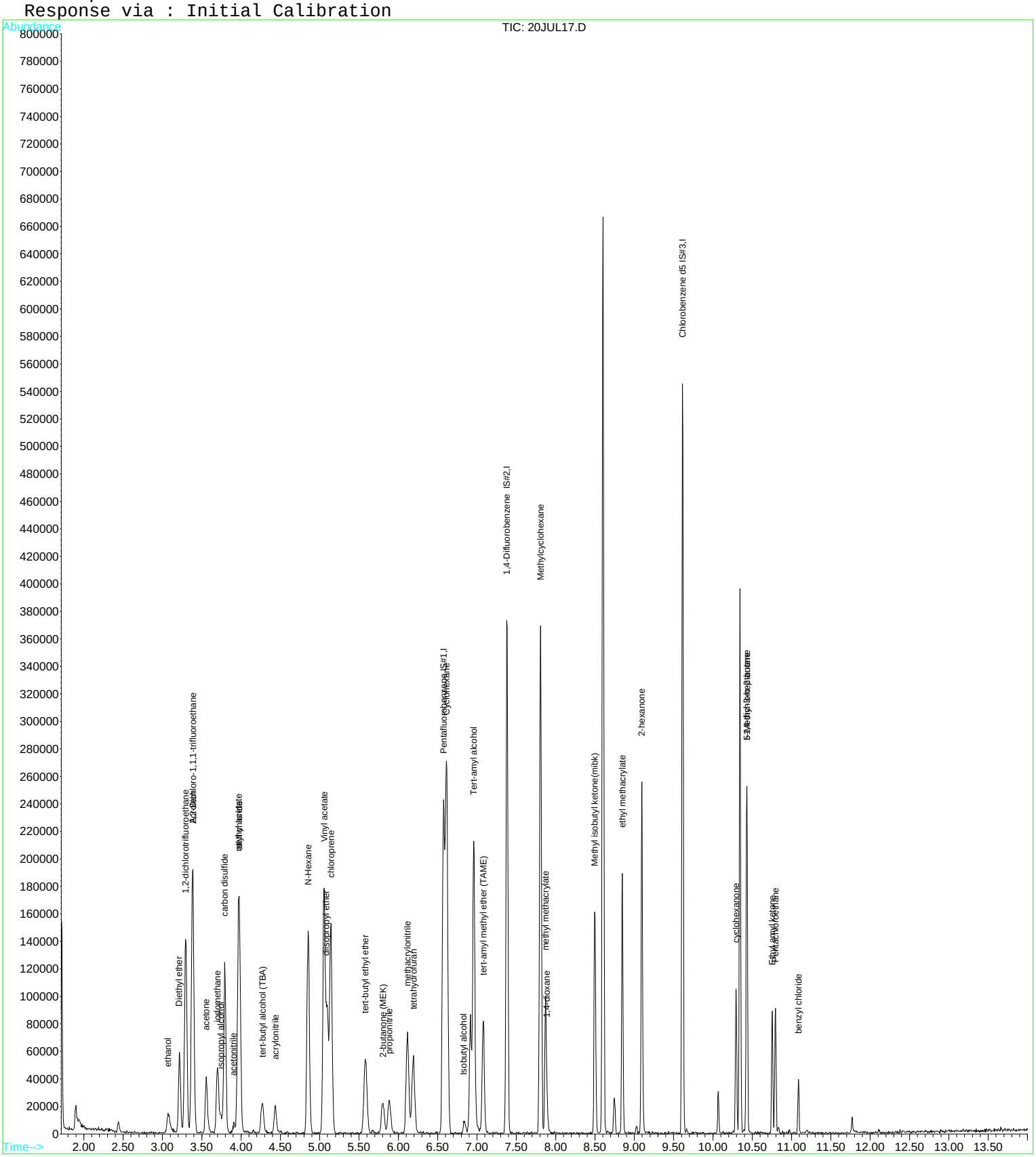
Target Compounds							Qvalue
2) ethanol	3.07	45	24231	880.61	ug/L	#	42
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	139435	8.06	ug/L	#	76
4) 1,2-dichlorotrifluoroethan	3.30	67	95716	8.30	ug/L	#	85
5) Diethyl ether	3.22	59	36853	7.68	ug/L		85
6) isopropyl alcohol	3.74	45	24483	188.97	ug/L	#	48
7) Acrolein	3.39	56	12111	26.26	ug/L	#	57
8) acetone	3.56	43	53458	65.55	ug/L		93
9) tert-butyl alcohol (TBA)	4.27	59	35214	208.08	ug/L		100
10) acetonitrile	3.90	41	11392	30.06	ug/L		92
11) methyl acetate	3.97	43	183134	81.98	ug/L		94
12) allyl chloride	3.98	41	121027	6.64	ug/L		100
13) iodomethane	3.70	142	65253	5.82	ug/L		96
14) acrylonitrile	4.44	53	19247	14.55	ug/L		88
15) carbon disulfide	3.79	76	184809	6.70	ug/L		98
16) N-Hexane	4.85	57	93481	7.68	ug/L	#	84
17) diisopropyl ether	5.09	87	21528	3.19	ug/L		96
18) Vinyl acetate	5.05	43	349748	39.68	ug/L		97
19) chloroprene	5.14	53	129340	6.52	ug/L		91
20) tert-butyl ethyl ether	5.59	59	72044	3.92	ug/L		96
21) 2-butanone (MEK)	5.80	43	44212	31.81	ug/L	#	88
22) propionitrile	5.88	54	37744	79.64	ug/L	#	91
23) Isobutyl alcohol	6.83	43	7785	131.68	ug/L	#	76
24) methacrylonitrile	6.12	67	38110	31.21	ug/L		93
25) Tert-amyl alcohol	6.96	59	138382	1103.30	ug/L	#	65
26) tetrahydrofuran	6.19	42	60102	64.44	ug/L		98
27) Cyclohexane	6.62	56	183532	7.51	ug/L	#	74
28) tert-amyl methyl ether (TA	7.08	73	39088	3.77	ug/L		79
30) methyl methacrylate	7.88	69	32411	16.83	ug/L		88
31) Methylcyclohexane	7.81	55	138472	8.11	ug/L		92
32) 1,4-dioxane	7.89	88	10018	361.29	ug/L		96
33) Methyl isobutyl ketone(mib	8.50	43	101652	31.67	ug/L		96
34) ethyl methacrylate	8.85	69	75440	18.04	ug/L		95
35) 2-hexanone	9.09	43	138228	64.34	ug/L		99
37) 5-Methyl-3-heptanone	10.43	43	54948	16.26	ug/L		97
38) cyclohexanone	10.29	55	39500	218.83	ug/L		97
39) t-1,4-dichloro-2-butene	10.43	75	10413	28.03	ug/L	#	41
40) Ethyl amyl ketone	10.75	57	22893	7.59	ug/L	#	75
41) Pentachloroethane	10.79	167	9109	4.69	ug/L	#	87
42) benzyl chloride	11.09	91	20812	11.38	ug/L	#	55

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL17.D Vial: 17
Acq On : 20 Jul 2017 1:55 pm Operator: MGC
Sample : 1712752-CAL8 Inst : MS-V5
Misc : 1 VO-109-70525;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:21 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL18.D Vial: 18
Acq On : 20 Jul 2017 2:18 pm Operator: MGC
Sample : 1712752-CAL9 Inst : MS-V5
Misc : 1 VO-109-70526;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177625	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	272450	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69283	10.00	ug/L	0.00

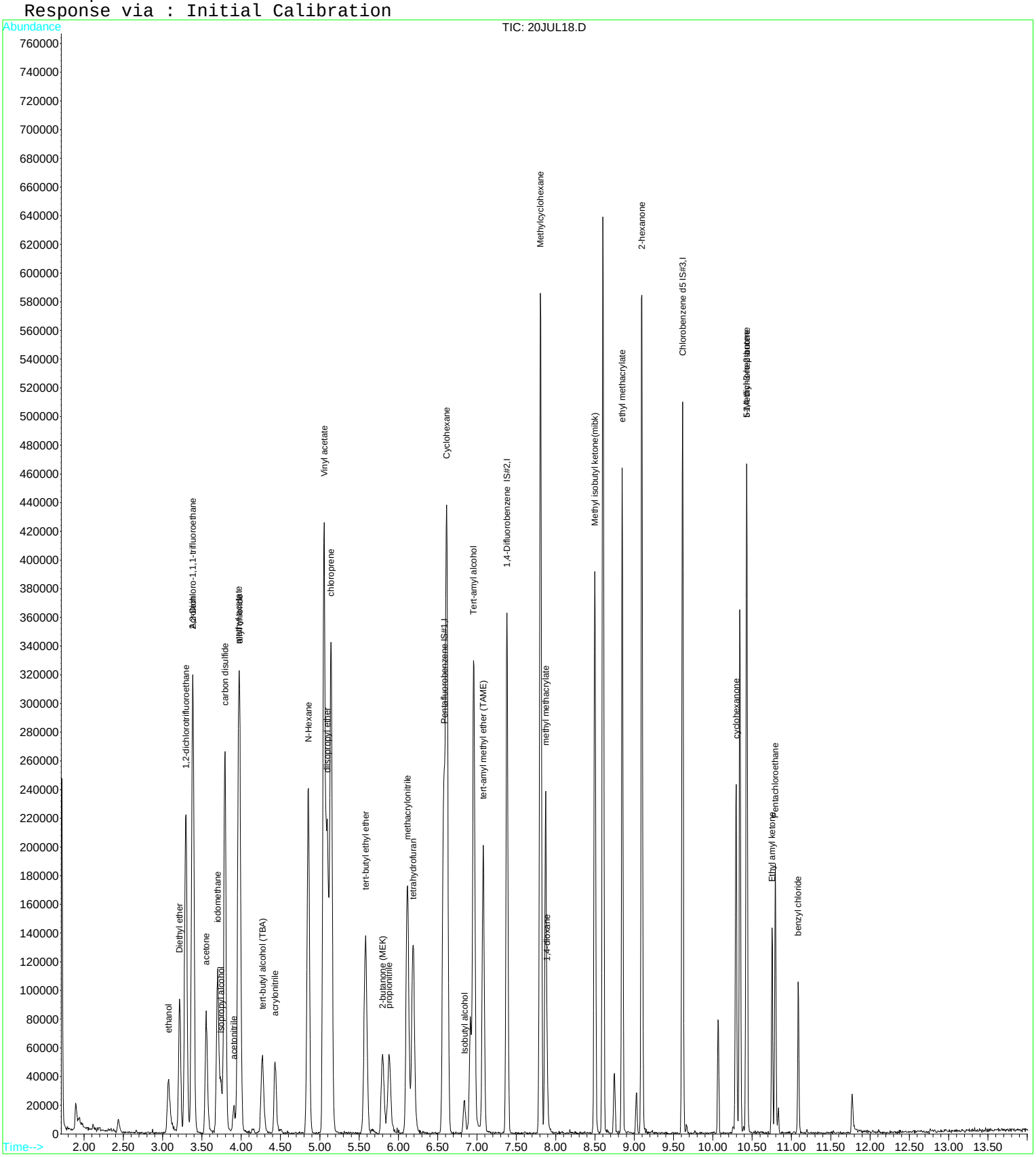
Target Compounds						Qvalue
2) ethanol	3.08	45	62213	2311.67	ug/L #	47
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	221656	13.09	ug/L #	75
4) 1,2-dichlorotrifluoroethan	3.30	67	150832	13.37	ug/L #	85
5) Diethyl ether	3.22	59	58599	12.49	ug/L	87
6) isopropyl alcohol	3.74	45	59618	470.49	ug/L #	44
7) Acrolein	3.39	56	30220	67.01	ug/L #	69
8) acetone	3.55	43	116631	146.21	ug/L	96
9) tert-butyl alcohol (TBA)	4.27	59	80745	487.83	ug/L	100
10) acetonitrile	3.91	41	27286	73.62	ug/L #	59
11) methyl acetate	3.96	43	288754	132.16	ug/L	94
12) allyl chloride	3.98	41	270178	15.15	ug/L	97
13) iodomethane	3.70	142	154713	14.12	ug/L	97
14) acrylonitrile	4.43	53	46773	36.15	ug/L	94
15) carbon disulfide	3.79	76	408149	15.12	ug/L	97
16) N-Hexane	4.86	57	150267	12.62	ug/L #	83
17) diisopropyl ether	5.10	87	52531	7.96	ug/L	91
18) Vinyl acetate	5.06	43	828062	96.05	ug/L	97
19) chloroprene	5.15	53	286537	14.77	ug/L	93
20) tert-butyl ethyl ether	5.58	59	170677	9.49	ug/L	96
21) 2-butanone (MEK)	5.80	43	102204	75.18	ug/L #	90
22) propionitrile	5.88	54	87903	189.63	ug/L #	90
23) Isobutyl alcohol	6.84	43	19916	283.09	ug/L #	71
24) methacrylonitrile	6.12	67	91400	76.53	ug/L	90
25) Tert-amyl alcohol	6.96	59	219925	1607.75	ug/L #	64
26) tetrahydrofuran	6.18	42	135022	148.01	ug/L	94
27) Cyclohexane	6.61	56	295091	12.35	ug/L #	72
28) tert-amyl methyl ether (TA	7.08	73	92322	9.10	ug/L #	76
30) methyl methacrylate	7.87	69	77276	41.56	ug/L	93
31) Methylcyclohexane	7.81	55	219815	13.33	ug/L	92
32) 1,4-dioxane	7.89	88	22981	858.33	ug/L	81
33) Methyl isobutyl ketone(mib	8.50	43	236406	76.27	ug/L	96
34) ethyl methacrylate	8.85	69	183288	45.39	ug/L	96
35) 2-hexanone	9.09	43	323658	156.02	ug/L	99
37) 5-Methyl-3-heptanone	10.43	43	87636	27.87	ug/L	96
38) cyclohexanone	10.30	55	94541	563.10	ug/L	95
39) t-1,4-dichloro-2-butene	10.43	75	25830	63.86	ug/L #	31
40) Ethyl amyl ketone	10.75	57	34434	12.27	ug/L #	78
41) Pentachloroethane	10.80	167	21823	9.53	ug/L	91
42) benzyl chloride	11.09	91	58763	26.60	ug/L #	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL18.D Vial: 18
Acq On : 20 Jul 2017 2:18 pm Operator: MGC
Sample : 1712752-CAL9 Inst : MS-V5
Misc : 1 VO-109-70526;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL19.D Vial: 19
Acq On : 20 Jul 2017 2:41 pm Operator: MGC
Sample : 1712752-CALA Inst : MS-V5
Misc : 1 VO-109-70527;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178179	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	269523	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.61	119	71971	10.00	ug/L		0.00

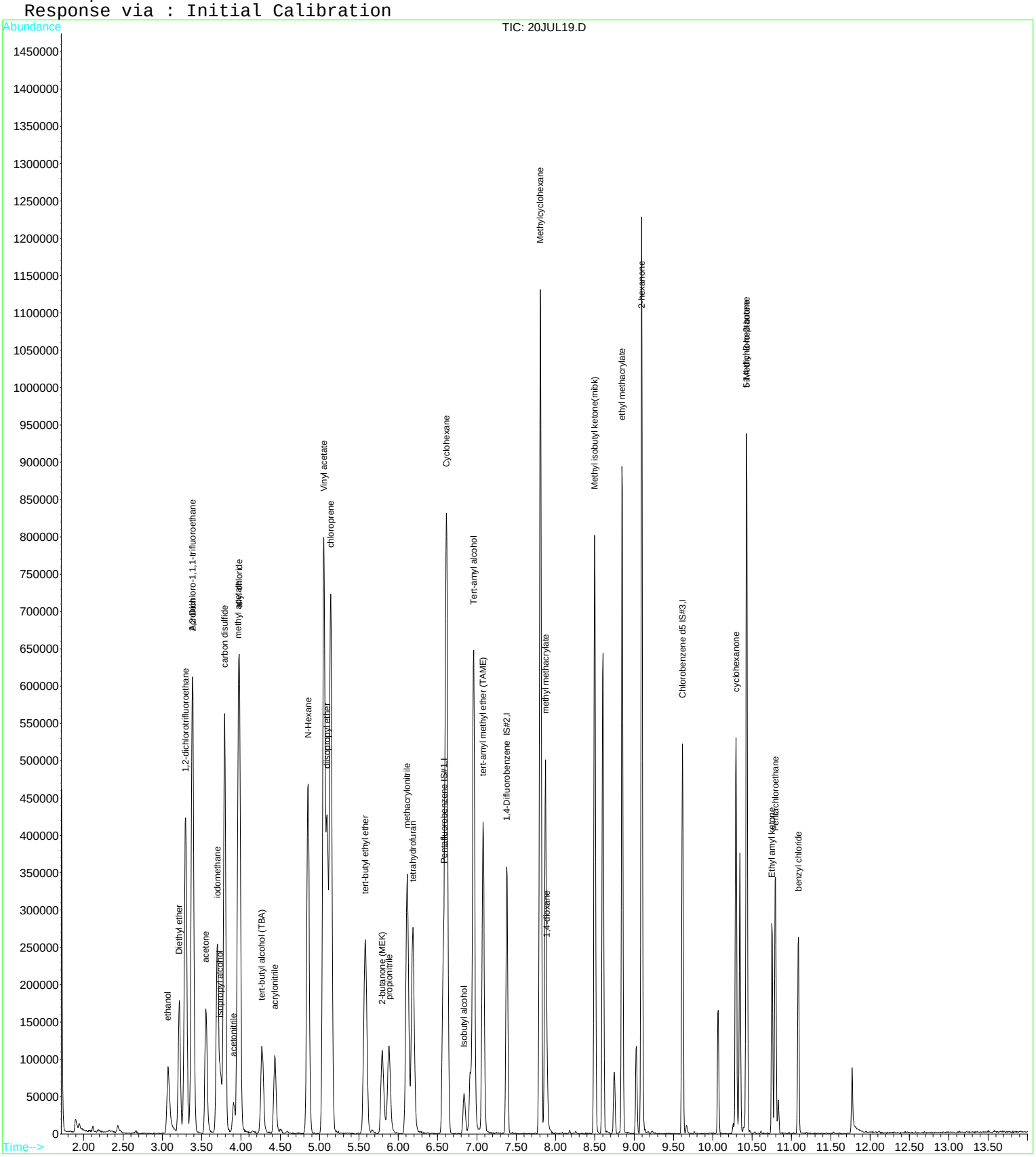
Target Compounds							Qvalue
2) ethanol	3.07	45	140530	5205.50	ug/L	#	43
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	425124	25.03	ug/L	#	73
4) 1,2-dichlorotrifluoroethan	3.30	67	284371	25.13	ug/L	#	83
5) Diethyl ether	3.22	59	114106	24.25	ug/L		85
6) isopropyl alcohol	3.74	45	131474	1034.33	ug/L	#	41
7) Acrolein	3.39	56	62901	139.04	ug/L	#	73
8) acetone	3.55	43	229854	287.26	ug/L		94
9) tert-butyl alcohol (TBA)	4.26	59	175269	1055.61	ug/L		100
10) acetonitrile	3.91	41	61133	164.42	ug/L	#	33
11) methyl acetate	3.96	43	550034	250.97	ug/L		95
12) allyl chloride	3.98	41	574268	32.11	ug/L		95
13) iodomethane	3.70	142	355621	32.35	ug/L		98
14) acrylonitrile	4.43	53	102774	79.19	ug/L		96
15) carbon disulfide	3.79	76	874992	32.31	ug/L		97
16) N-Hexane	4.85	57	297530	24.90	ug/L	#	84
17) diisopropyl ether	5.09	87	103764	15.68	ug/L		93
18) Vinyl acetate	5.05	43	1587903	183.61	ug/L		96
19) chloroprene	5.14	53	611898	31.45	ug/L		93
20) tert-butyl ethyl ether	5.58	59	340727	18.89	ug/L		96
21) 2-butanone (MEK)	5.80	43	200206	146.82	ug/L	#	86
22) propionitrile	5.88	54	183350	394.30	ug/L	#	88
23) Isobutyl alcohol	6.84	43	44239	580.76	ug/L	#	69
24) methacrylonitrile	6.12	67	186727	155.86	ug/L		88
25) Tert-amyl alcohol	6.95	59	433887	2875.85	ug/L	#	63
26) tetrahydrofuran	6.19	42	274573	300.05	ug/L		94
27) Cyclohexane	6.61	56	564683	23.55	ug/L	#	72
28) tert-amyl methyl ether (TA	7.08	73	186688	18.35	ug/L	#	73
30) methyl methacrylate	7.87	69	158389	86.10	ug/L		90
31) Methylcyclohexane	7.80	55	420775	25.80	ug/L		93
32) 1,4-dioxane	7.89	88	52189	1970.40	ug/L		86
33) Methyl isobutyl ketone(mib	8.50	43	475097	154.94	ug/L		95
34) ethyl methacrylate	8.84	69	369893	92.59	ug/L		95
35) 2-hexanone	9.10	43	657561	320.43	ug/L		100
37) 5-Methyl-3-heptanone	10.43	43	167434	51.27	ug/L		94
38) cyclohexanone	10.29	55	198878	1140.31	ug/L		94
39) t-1,4-dichloro-2-butene	10.42	75	61347	121.43	ug/L	#	27
40) Ethyl amyl ketone	10.75	57	72956	25.02	ug/L	#	73
41) Pentachloroethane	10.80	167	40327	15.69	ug/L		92
42) benzyl chloride	11.09	91	145825	49.60	ug/L	#	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL19.D Vial: 19
Acq On : 20 Jul 2017 2:41 pm Operator: MGC
Sample : 1712752-CALA Inst : MS-V5
Misc : 1 VO-109-70527;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL20.D Vial: 20
Acq On : 20 Jul 2017 3:04 pm Operator: MGC
Sample : 1712752-CALB Inst : MS-V5
Misc : 1 VO-109-70528;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174621	10.00 ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	263233	10.00 ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69099	10.00 ug/L	0.00

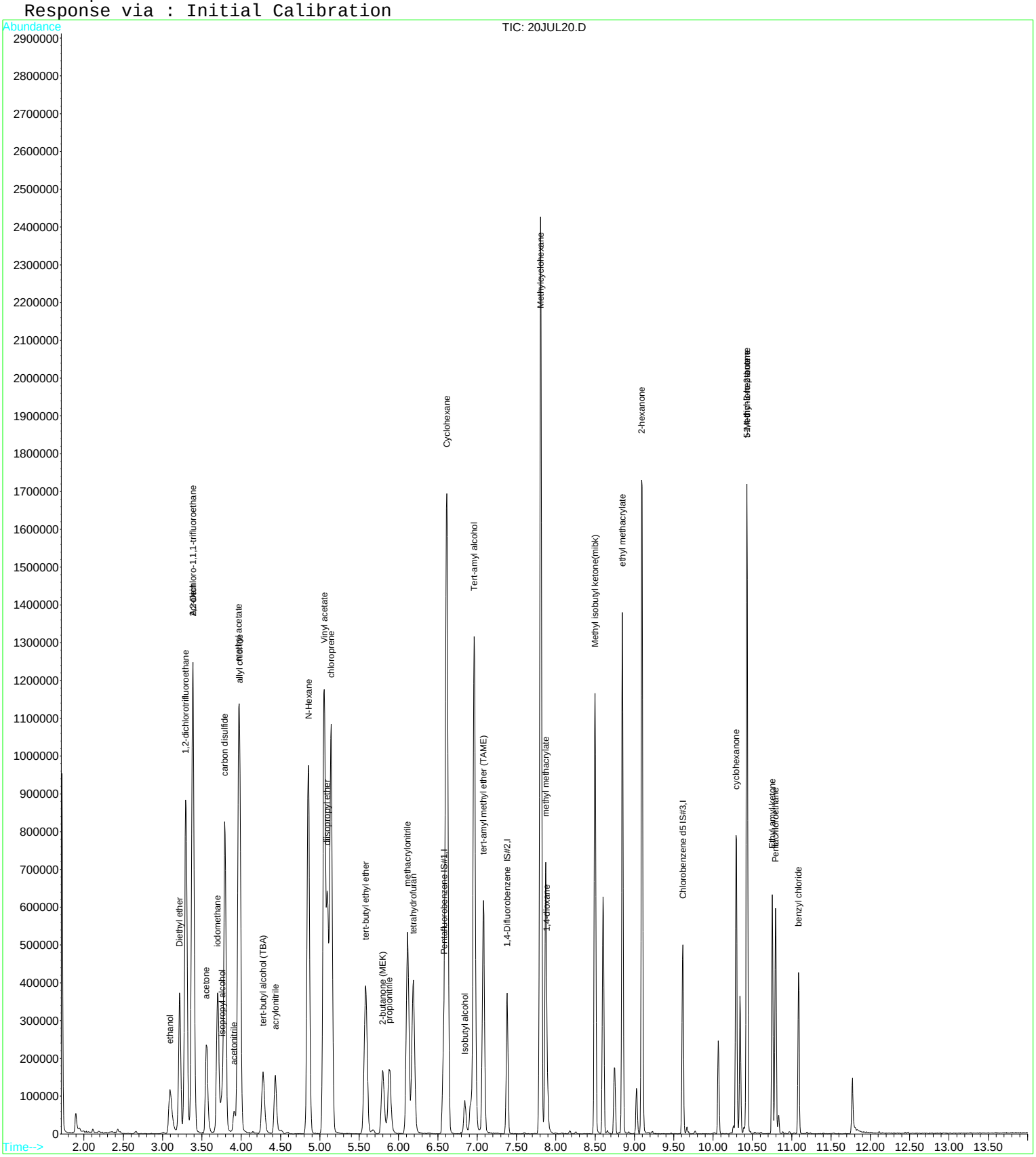
Target Compounds					Qvalue
2) ethanol	3.09	45	205730	7775.90 ug/L #	43
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	860452	51.70 ug/L #	76
4) 1,2-dichlorotrifluoroethan	3.29	67	590714	53.27 ug/L #	85
5) Diethyl ether	3.22	59	235219	51.00 ug/L	83
6) isopropyl alcohol	3.75	45	195278	1567.58 ug/L #	8
7) Acrolein	3.39	56	108941	245.71 ug/L #	69
8) acetone	3.55	43	344325	439.08 ug/L	95
9) tert-butyl alcohol (TBA)	4.28	59	252324	1550.67 ug/L	100
10) acetonitrile	3.91	41	83903	230.26 ug/L #	26
11) methyl acetate	3.96	43	1128055	525.19 ug/L	94
12) allyl chloride	3.98	41	862980	49.23 ug/L	96
13) iodomethane	3.70	142	539359	50.07 ug/L	98
14) acrylonitrile	4.44	53	154090	121.14 ug/L	95
15) carbon disulfide	3.79	76	1271472	47.91 ug/L	97
16) N-Hexane	4.86	57	623461	53.24 ug/L #	83
17) diisopropyl ether	5.10	87	157252	24.25 ug/L	89
18) Vinyl acetate	5.06	43	2385200	281.42 ug/L #	96
19) chloroprene	5.14	53	902085	47.31 ug/L	94
20) tert-butyl ethyl ether	5.58	59	505113	28.57 ug/L	95
21) 2-butanone (MEK)	5.80	43	302620	226.44 ug/L #	87
22) propionitrile	5.88	54	276513	606.77 ug/L #	89
23) Isobutyl alcohol	6.84	43	69599	909.31 ug/L #	76
24) methacrylonitrile	6.12	67	274890	234.12 ug/L	89
25) Tert-amyl alcohol	6.96	59	913464	5837.98 ug/L #	61
26) tetrahydrofuran	6.19	42	401837	448.07 ug/L	93
27) Cyclohexane	6.61	56	1165061	49.58 ug/L #	72
28) tert-amyl methyl ether (TA	7.08	73	285000	28.58 ug/L #	70
30) methyl methacrylate	7.87	69	241996	134.69 ug/L	95
31) Methylcyclohexane	7.81	55	877587	55.09 ug/L	93
32) 1,4-dioxane	7.89	88	73893	2856.51 ug/L	86
33) Methyl isobutyl ketone(mib	8.50	43	701682	234.30 ug/L	94
34) ethyl methacrylate	8.85	69	550973	141.22 ug/L	95
35) 2-hexanone	9.09	43	935679	466.85 ug/L	98
37) 5-Methyl-3-heptanone	10.43	43	334691	106.74 ug/L	94
38) cyclohexanone	10.29	55	313653	1873.15 ug/L	95
39) t-1,4-dichloro-2-butene	10.42	75	102481	180.83 ug/L #	20
40) Ethyl amyl ketone	10.75	57	152313	54.40 ug/L #	73
41) Pentachloroethane	10.79	167	70897	27.38 ug/L	91
42) benzyl chloride	11.09	91	232501	69.65 ug/L #	55

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL20.D Vial: 20
Acq On : 20 Jul 2017 3:04 pm Operator: MGC
Sample : 1712752-CALB Inst : MS-V5
Misc : 1 VO-109-70528;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL21.D Vial: 21
Acq On : 20 Jul 2017 3:27 pm Operator: MGC
Sample : 1712752-CALC Inst : MS-V5
Misc : 1 VO-109-70529;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191859	10.00 ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	287684	10.00 ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	76272	10.00 ug/L	0.00

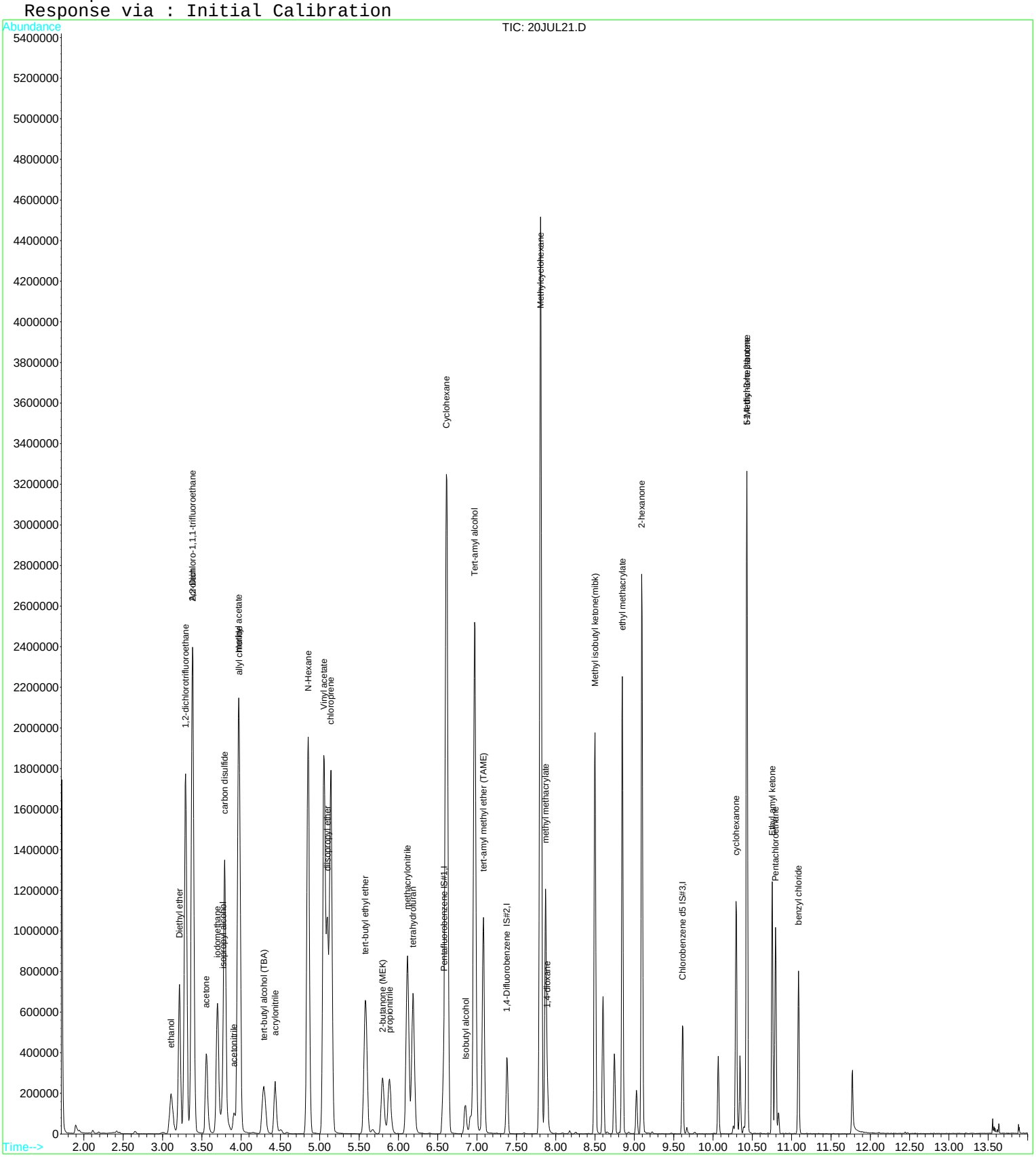
Target Compounds					Qvalue
2) ethanol	3.11	45	343157	11804.84 ug/L #	40
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	1694547	92.67 ug/L #	75
4) 1,2-dichlorotrifluoroethan	3.29	67	1178349	96.72 ug/L #	85
5) Diethyl ether	3.22	59	472236	93.20 ug/L	82
6) isopropyl alcohol	3.77	45	317937	2322.91 ug/L #	6
7) Acrolein	3.39	56	180190	369.90 ug/L #	72
8) acetone	3.56	43	577159	669.86 ug/L	96
9) tert-butyl alcohol (TBA)	4.29	59	450091	2517.53 ug/L	100
10) acetonitrile	3.91	41	136990	342.17 ug/L #	27
11) methyl acetate	3.97	43	2174902	921.60 ug/L	91
12) allyl chloride	3.98	41	1442058	74.88 ug/L	97
13) iodomethane	3.70	142	960471	81.15 ug/L	99
14) acrylonitrile	4.43	53	249855	178.78 ug/L	95
15) carbon disulfide	3.79	76	2158751	74.03 ug/L	97
16) N-Hexane	4.85	57	1257523	97.74 ug/L #	84
17) diisopropyl ether	5.10	87	262020	36.77 ug/L	91
18) Vinyl acetate	5.05	43	3834502	411.77 ug/L #	95
19) chloroprene	5.14	53	1510657	72.11 ug/L	96
20) tert-butyl ethyl ether	5.58	59	868719	44.72 ug/L	93
21) 2-butanone (MEK)	5.79	43	505064	343.97 ug/L #	87
22) propionitrile	5.89	54	430629	860.06 ug/L #	87
23) Isobutyl alcohol	6.85	43	115290	1351.66 ug/L #	76
24) methacrylonitrile	6.12	67	474660	367.94 ug/L	87
25) Tert-amyl alcohol	6.97	59	1893937	10754.08 ug/L #	59
26) tetrahydrofuran	6.18	42	681592	691.73 ug/L	94
27) Cyclohexane	6.61	56	2255697	87.37 ug/L #	73
28) tert-amyl methyl ether (TA	7.08	73	485199	44.28 ug/L #	70
30) methyl methacrylate	7.87	69	415597	211.66 ug/L	97
31) Methylcyclohexane	7.81	55	1673839	96.15 ug/L	94
32) 1,4-dioxane	7.90	88	128386	4541.24 ug/L	89
33) Methyl isobutyl ketone(mib	8.50	43	1152352	352.08 ug/L	93
34) ethyl methacrylate	8.85	69	909414	213.28 ug/L	96
35) 2-hexanone	9.09	43	1491577	680.96 ug/L	96
37) 5-Methyl-3-heptanone	10.43	43	646664	186.84 ug/L	93
38) cyclohexanone	10.29	55	449992	2434.64 ug/L	94
39) t-1,4-dichloro-2-butene	10.43	75	176499	244.62 ug/L #	20
40) Ethyl amyl ketone	10.75	57	306368	99.14 ug/L #	71
41) Pentachloroethane	10.79	167	132243	45.16 ug/L	91
42) benzyl chloride	11.09	91	435458	97.53 ug/L #	54

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL21.D Vial: 21
Acq On : 20 Jul 2017 3:27 pm Operator: MGC
Sample : 1712752-CALC Inst : MS-V5
Misc : 1 VO-109-70529;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL50.D Vial: 50
Acq On : 18 Jul 2017 12:00 am Operator: MGC
Sample : 1712538-CALD Inst : MS-V5
Misc : 1 VO-109-70472;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:12 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

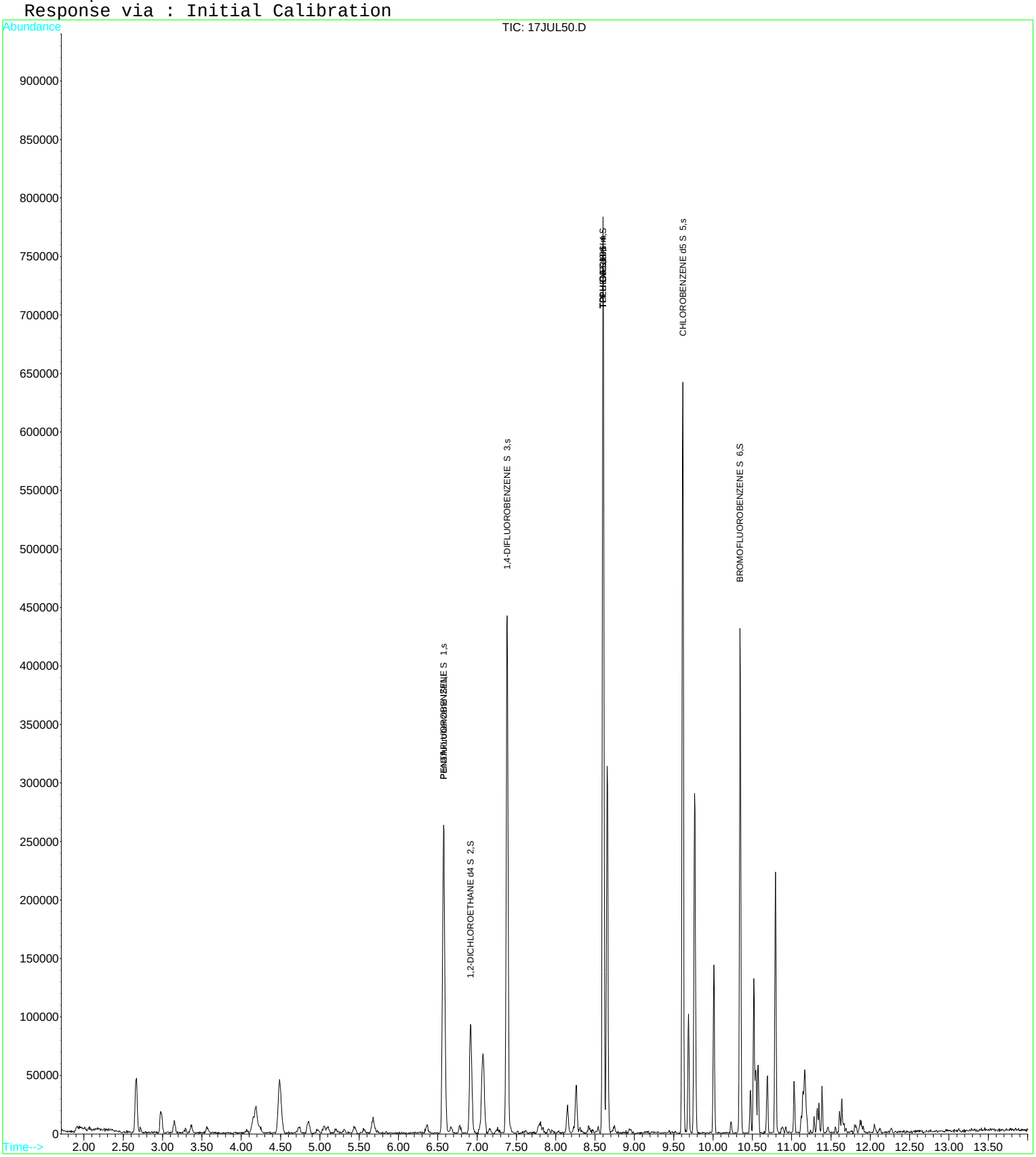
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	203330	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	560010m	5.20	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	196599m	3.33	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	759365m	6.84	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1067752m	11.21	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	813344m	11.95	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	534468m	11.94	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	8.60	TIC	3323551m	57.88	ug/L	
9) TPPH C6-C10	8.60	TIC	2289132m	59.15	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL50.D Vial: 50
Acq On : 18 Jul 2017 12:00 am Operator: MGC
Sample : 1712538-CALD Inst : MS-V5
Misc : 1 VO-109-70472;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:12 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL51.D Vial: 51
Acq On : 18 Jul 2017 12:23 am Operator: MGC
Sample : 1712538-CALE Inst : MS-V5
Misc : 1 VO-109-70473;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:13 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

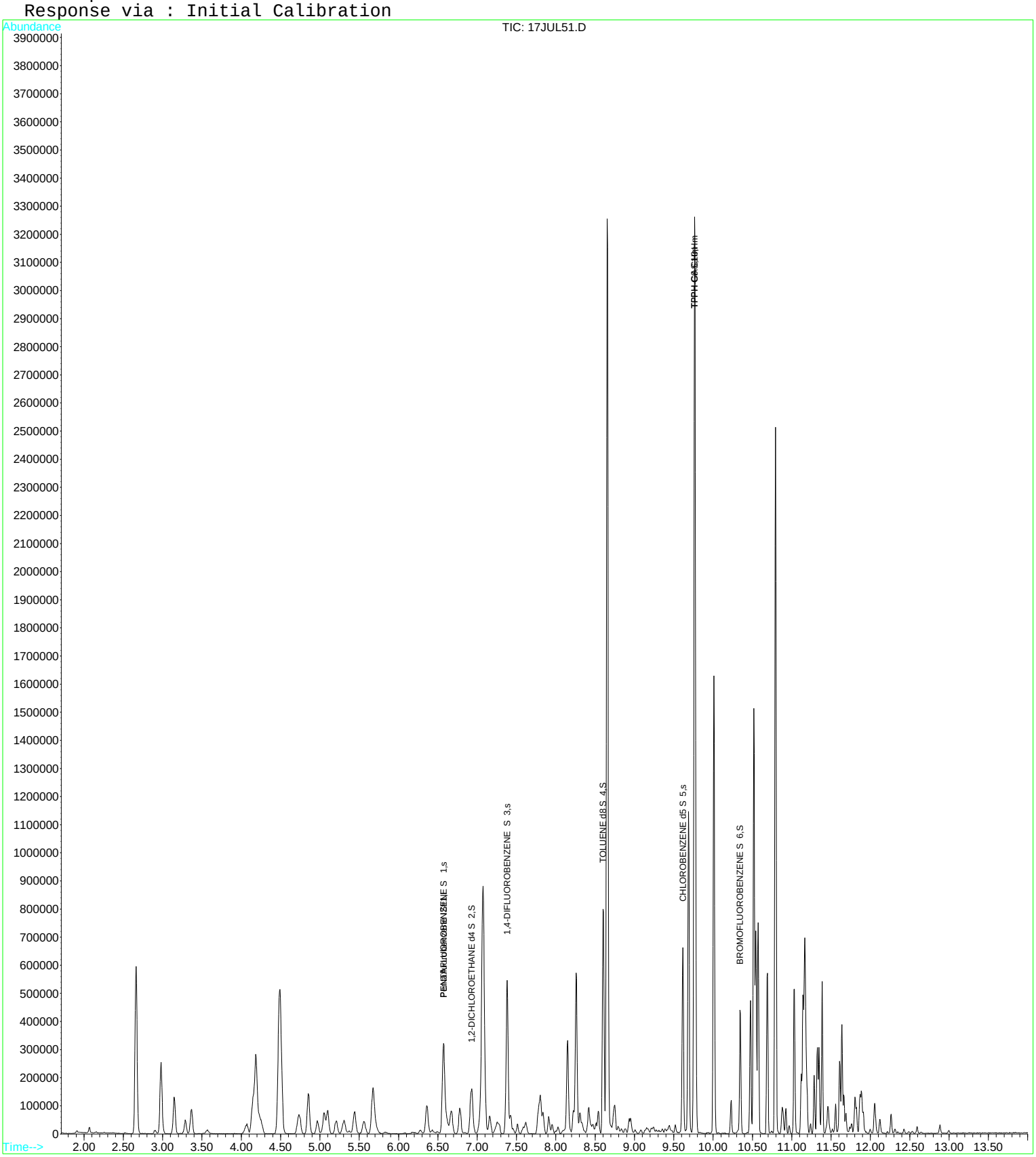
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	203353	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	851300m	7.90	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	412269m	6.97	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	997992m	8.99	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1156175m	12.13	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	854311m	12.55	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	563664m	12.59	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	39200624m	682.56	ug/L	
9) TPPH C6-C10	9.76	TIC	26681022m	689.37	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL51.D Vial: 51
Acq On : 18 Jul 2017 12:23 am Operator: MGC
Sample : 1712538-CALE Inst : MS-V5
Misc : 1 VO-109-70473;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:13 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL52.D Vial: 52
Acq On : 18 Jul 2017 12:46 am Operator: MGC
Sample : 1712538-CALF Inst : MS-V5
Misc : 1 VO-109-70474;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:16 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

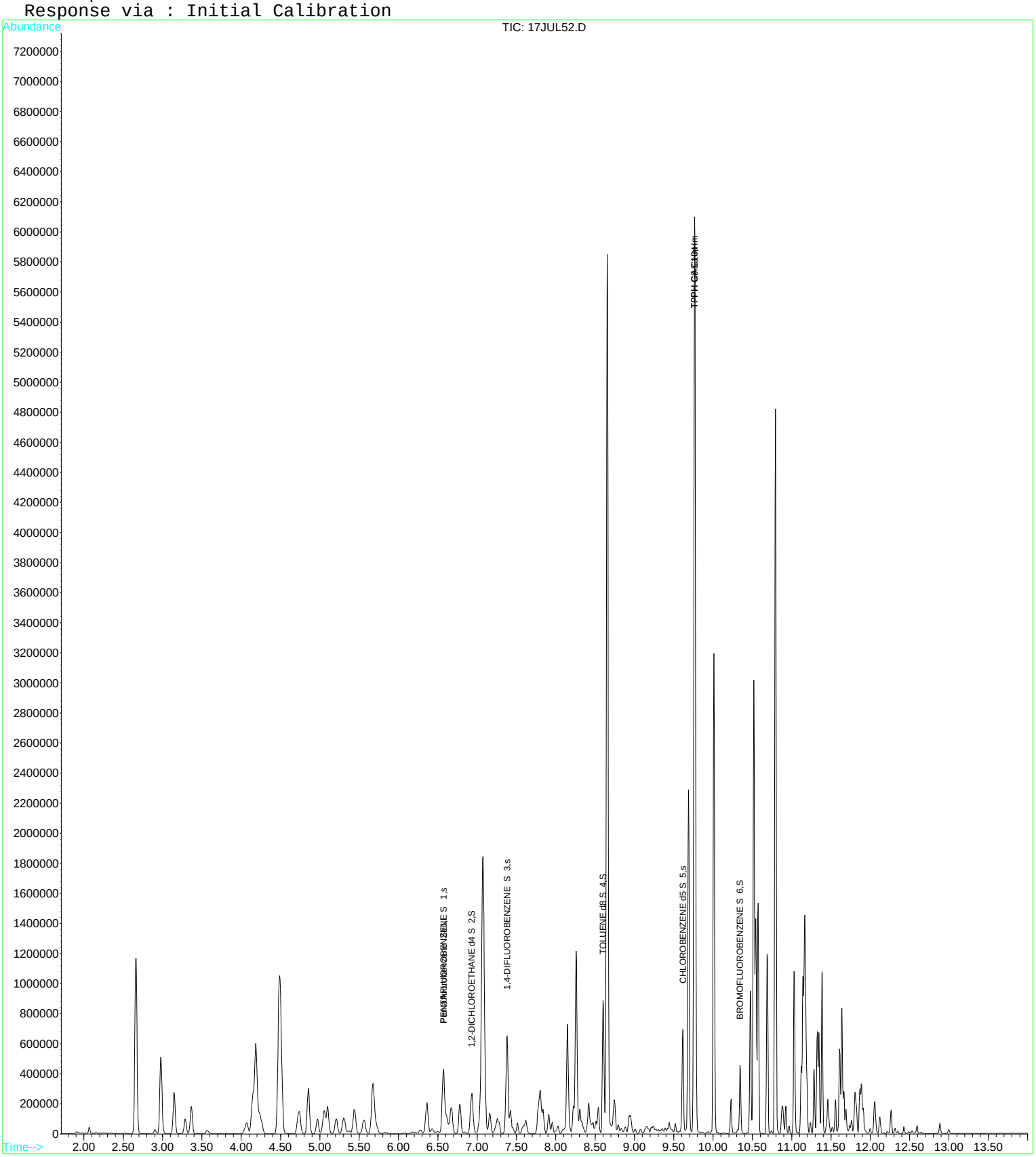
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	209806	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1172463m	10.55	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	663952m	10.89	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1294857m	11.31	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1296741m	13.19	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	944425m	13.45	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	592237m	12.82	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	80422572m	1357.26	ug/L	
9) TPPH C6-C10	9.76	TIC	54230618m	1358.10	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL52.D Vial: 52
Acq On : 18 Jul 2017 12:46 am Operator: MGC
Sample : 1712538-CALF Inst : MS-V5
Misc : 1 VO-109-70474;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:16 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL53.D Vial: 53
Acq On : 18 Jul 2017 1:09 am Operator: MGC
Sample : 1712538-CALG Inst : MS-V5
Misc : 1 VO-109-70475;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:18 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

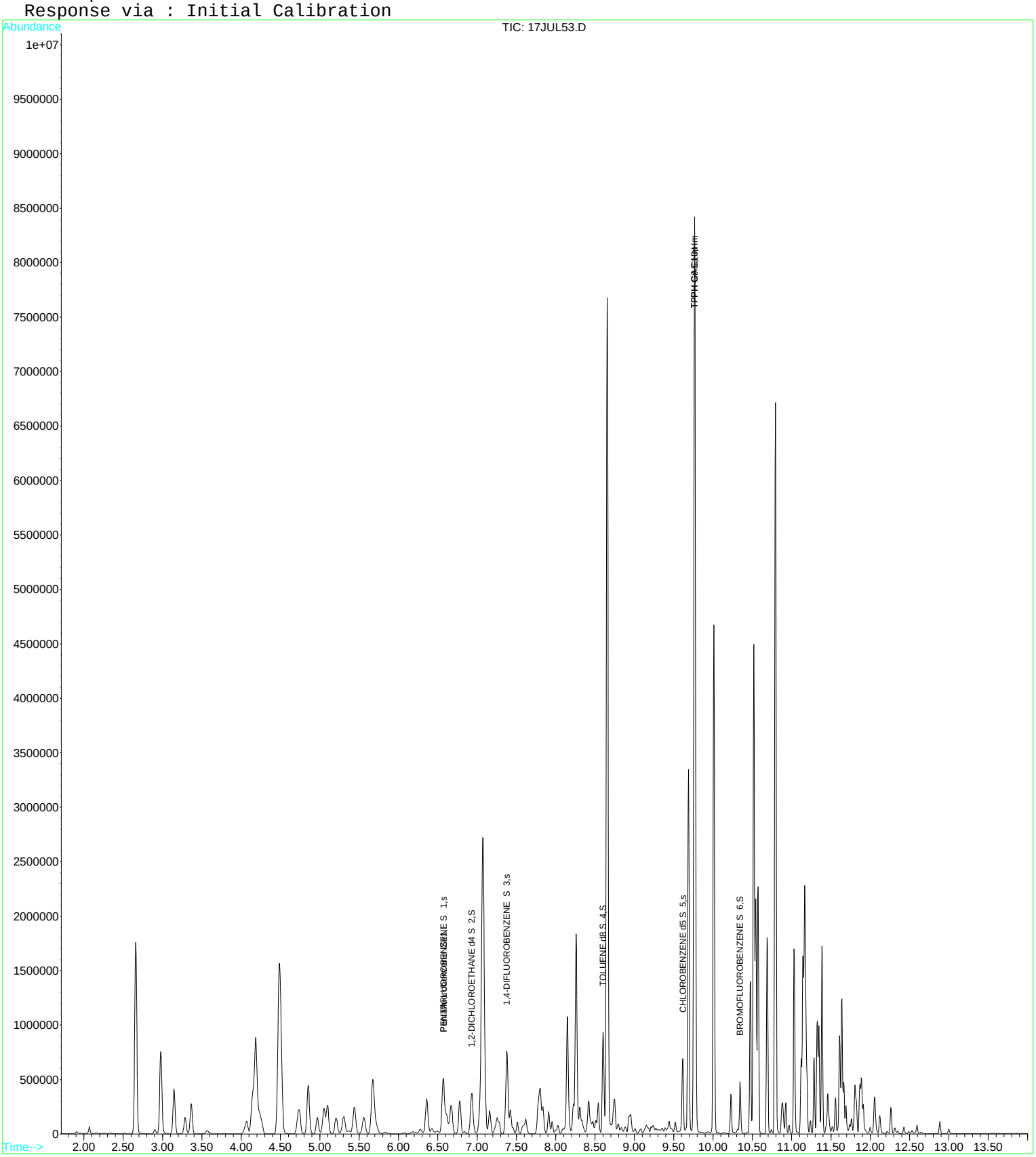
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	214428	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1509629m	13.29	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	903792m	14.50	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1605859m	13.72	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1364310m	13.58	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	977979m	13.63	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	633462m	13.42	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	118942110m	1964.06	ug/L	
9) TPPH C6-C10	9.76	TIC	79099535m	1938.19	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL53.D Vial: 53
Acq On : 18 Jul 2017 1:09 am Operator: MGC
Sample : 1712538-CALG Inst : MS-V5
Misc : 1 VO-109-70475;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:18 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL54.D Vial: 54
Acq On : 18 Jul 2017 1:32 am Operator: MGC
Sample : 1712538-CALH Inst : MS-V5
Misc : 1 VO-109-70476;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:19 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

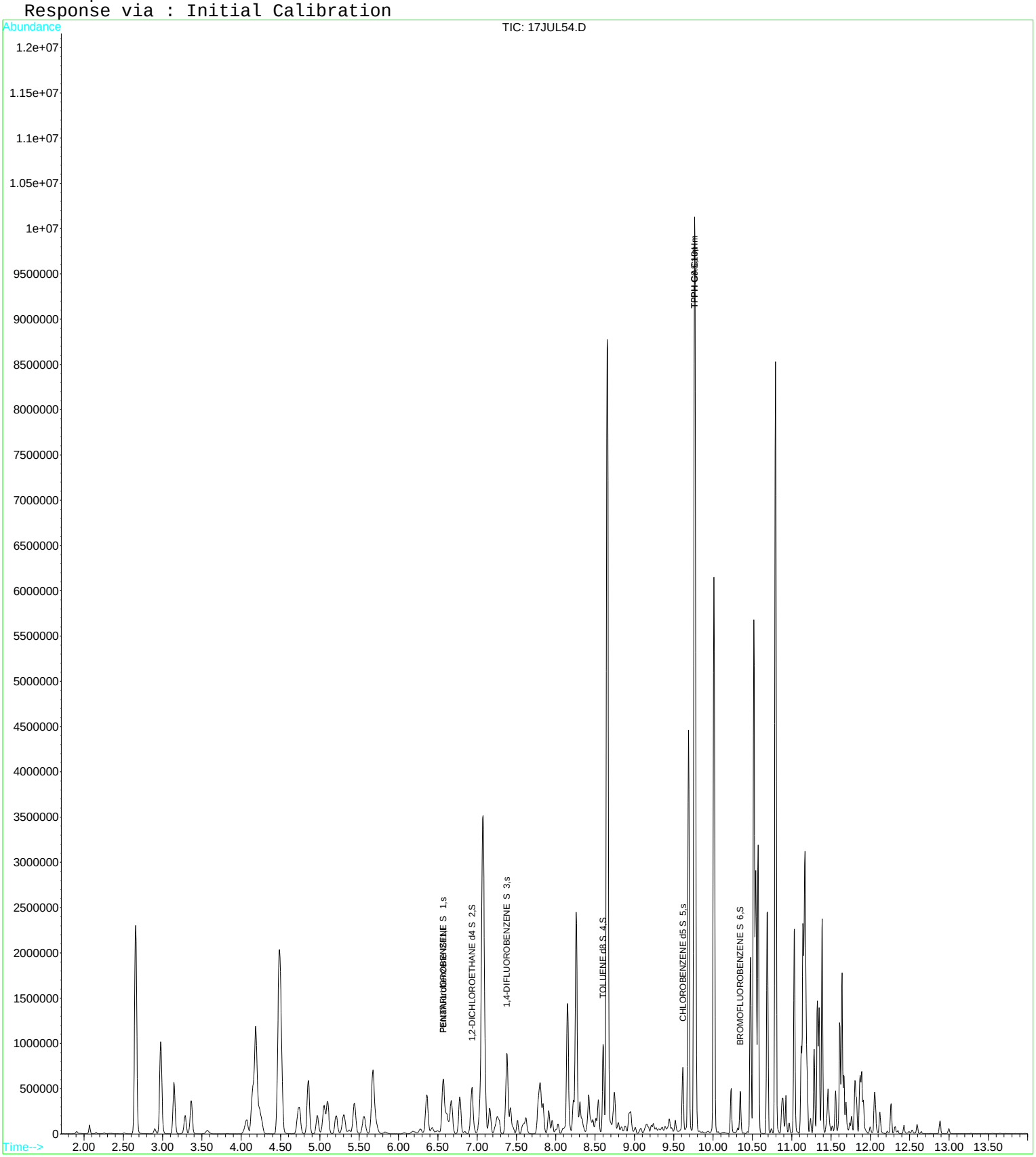
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	210761	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1839700m	16.47	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	1173334m	19.15	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1898061m	16.50	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1544544m	15.64	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	1056122m	14.97	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	631481m	13.61	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	158799376m	2667.84	ug/L	
9) TPPH C6-C10	9.76	TIC	104534866m	2606.00	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL54.D Vial: 54
Acq On : 18 Jul 2017 1:32 am Operator: MGC
Sample : 1712538-CALH Inst : MS-V5
Misc : 1 VO-109-70476;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:19 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL55.D Vial: 55
Acq On : 18 Jul 2017 1:55 am Operator: MGC
Sample : 1712538-CALI Inst : MS-V5
Misc : 1 VO-109-70477;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:20 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

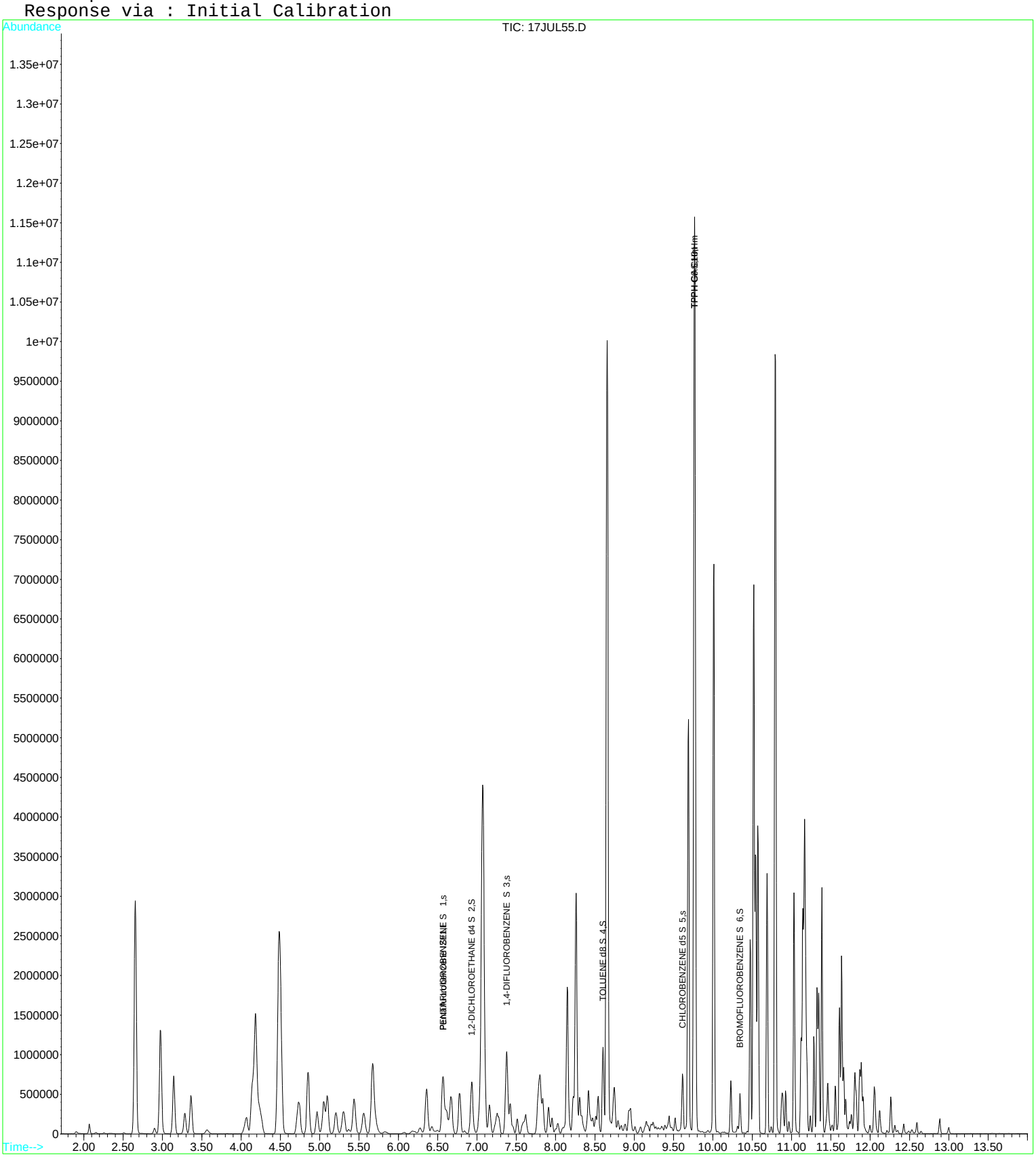
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	228564	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	2313492m	19.10	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	1481531m	22.30	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	2246811m	18.01	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1660426m	15.50	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	1178573m	15.40	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	685683m	13.63	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.77	TIC	198270607m	3071.51	ug/L	
9) TPPH C6-C10	9.77	TIC	129763331m	2982.96	ug/L	

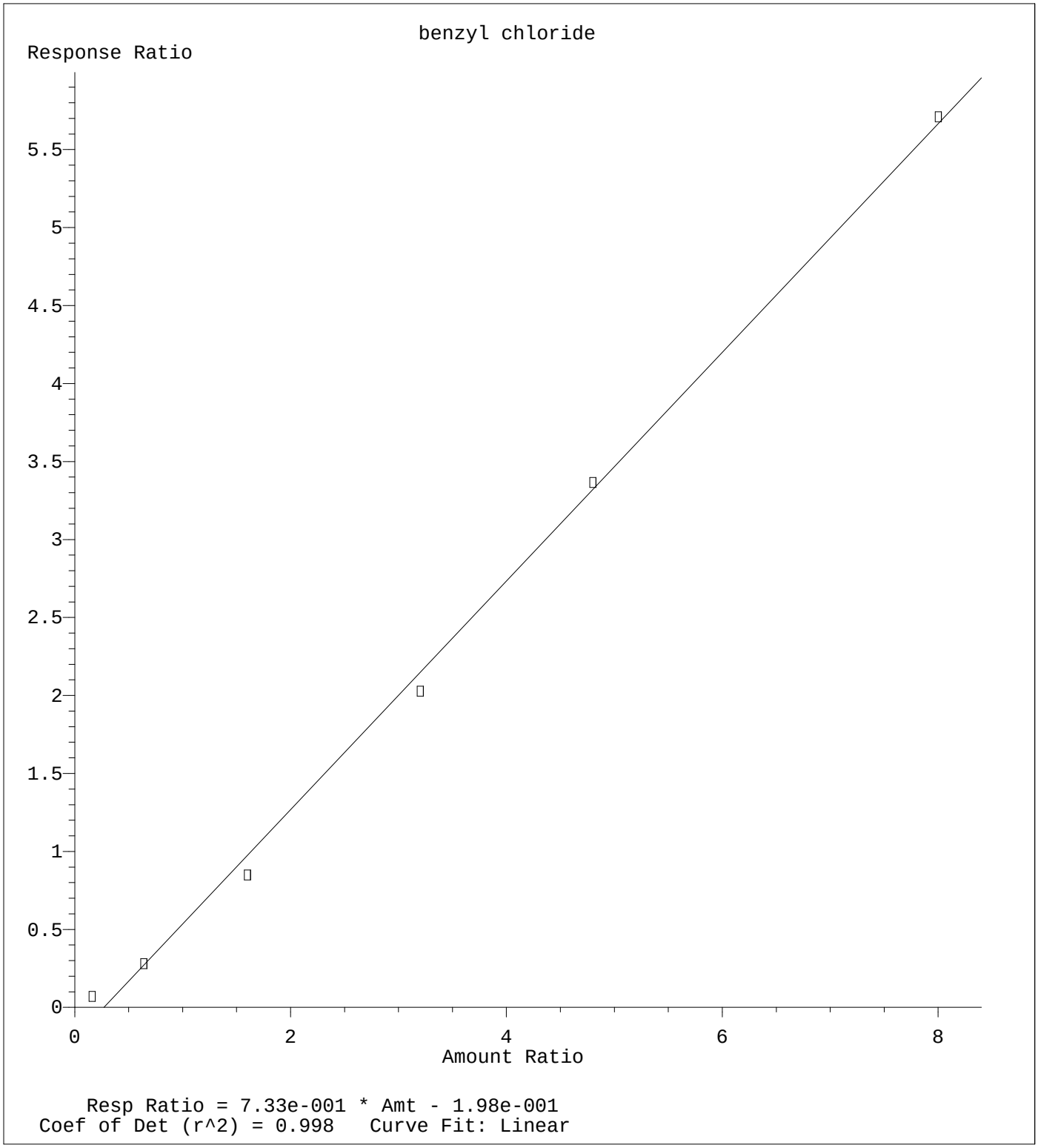
(#) = qualifier out of range (m) = manual integration

Quantitation Report

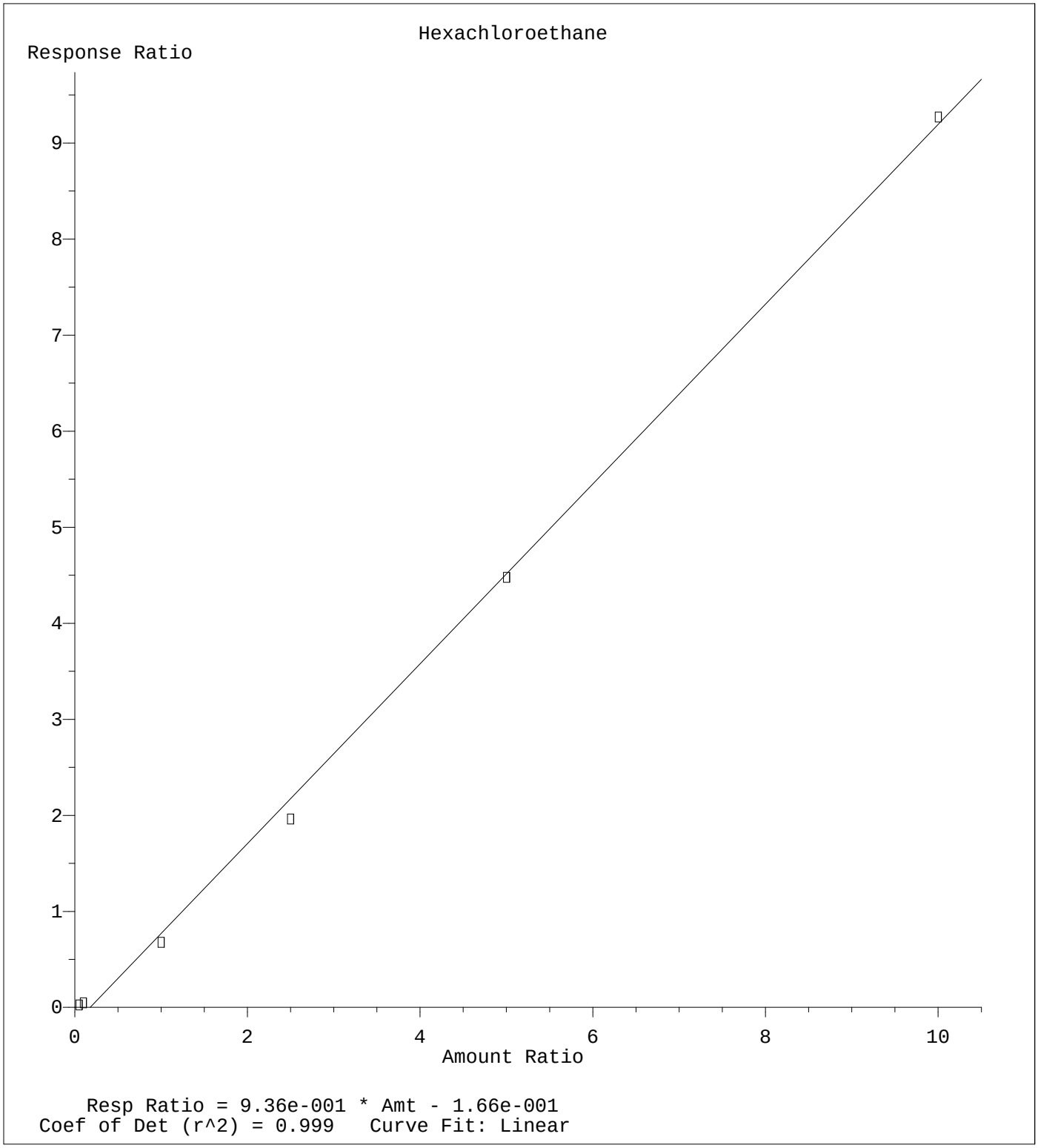
Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL55.D Vial: 55
Acq On : 18 Jul 2017 1:55 am Operator: MGC
Sample : 1712538-CALI Inst : MS-V5
Misc : 1 VO-109-70477;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:20 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M
Calibration Table Last Updated: Fri Jul 21 04:19:15 2017



Method Name: C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M
Calibration Table Last Updated: Thu Jul 20 11:28:22 2017

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
Acq On : 20 Jul 2017 12:00 pm Operator: MGC
Sample : 1712752-ICV1 Inst : MS-V5
Misc : 1 VO-109-70513;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184644	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	285117	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	74559	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	53963	10.01	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.10%							
31) Toluene d8 SMC#2	8.60	98	343093	9.74	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.40%							
49) Bromofluorobenzene SMC#3	10.34	95	115722	10.39	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 103.90%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	241916	26.33	ug/L		95
3) Chloromethane	1.95	50	378706	21.80	ug/L		99
4) Vinyl chloride	2.07	62	338693	24.48	ug/L	#	66
5) Bromomethane	2.44	94	188479	25.11	ug/L	#	89
6) Chloroethane	2.57	64	229100	24.11	ug/L		98
7) Trichlorofluoromethane	2.87	101	290783	25.57	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	206626	26.47	ug/L	#	83
9) 1,1-Dichloroethene	3.51	61	386451	25.94	ug/L		96
10) Methylene chloride	4.15	84	198309	24.89	ug/L		98
11) MTBE	4.48	73	285059	25.57	ug/L	#	77
12) T-1,2-dichloroethene	4.50	96	245512	26.54	ug/L		91
13) 1,1-Dichloroethane	5.05	63	503562	25.49	ug/L		100
14) 2,2-Dichloropropane	5.82	77	288286	25.93	ug/L		93
15) Cis-1,2-dichloroethene	5.82	96	244222	25.33	ug/L		95
16) Bromochloromethane	6.18	128	75372	24.53	ug/L	#	86
17) Chloroform	6.32	83	348453	24.93	ug/L		94
18) 1,1,1-Trichloroethane	6.53	97	312087	25.79	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	308677	24.42	ug/L		94
20) Carbon tetrachloride	6.71	119	211410	25.48	ug/L		91
22) 1,2-Dichloroethane	7.00	62	183710	24.46	ug/L	#	85
23) Benzene	6.94	78	941279	24.89	ug/L	#	7
25) Trichloroethene	7.60	130	248559	25.39	ug/L		90
26) 1,2-Dichloropropane	7.83	63	261996	24.22	ug/L		94
27) Dibromomethane	7.90	93	73001	26.74	ug/L		98
28) Bromodichloromethane	8.05	83	207514	25.28	ug/L		92
29) 2-ceve	8.27	63	285733	102.27	ug/L	#	75
30) Cis-1,3-dichloropropene	8.40	75	267335	26.09	ug/L		98
32) Toluene	8.65	92	616474	24.96	ug/L		93
33) Trans-1,3-dichloropropene	8.82	75	174804	26.13	ug/L	#	83
34) 1,1,2-Trichloroethane	8.97	97	111939	25.22	ug/L		85
35) Tetrachloroethene (PCE)	9.03	166	239008	25.47	ug/L		95
36) 1,3-Dichloropropane	9.08	76	170622	23.67	ug/L		97
37) Dibromochloromethane	9.23	129	113856	26.55	ug/L	#	95
38) 1,2-Dibromoethane	9.32	107	96637	26.20	ug/L		97
40) Chlorobenzene	9.64	112	577549	23.36	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	163410	26.86	ug/L		98
42) Ethylbenzene	9.69	106	374920	25.81	ug/L		82
43) P+m-Xylene	9.77	106	908616	51.13	ug/L		98
44) O-Xylene	10.01	106	421259	25.65	ug/L		90
45) Styrene	10.02	104	662005	26.45	ug/L		92
46) Bromoform	10.15	173	48942	26.74	ug/L	#	100
47) Isopropylbenzene	10.23	105	1115723	26.25	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.40	83	105100	25.92	ug/L		94
50) 1,2,3-Trichloropropane	10.45	110	22372	25.96	ug/L	#	18
51) n-propylbenzene	10.48	91	1339682	24.27	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
Acq On : 20 Jul 2017 12:00 pm Operator: MGC
Sample : 1712752-ICV1 Inst : MS-V5
Misc : 1 VO-109-70513;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

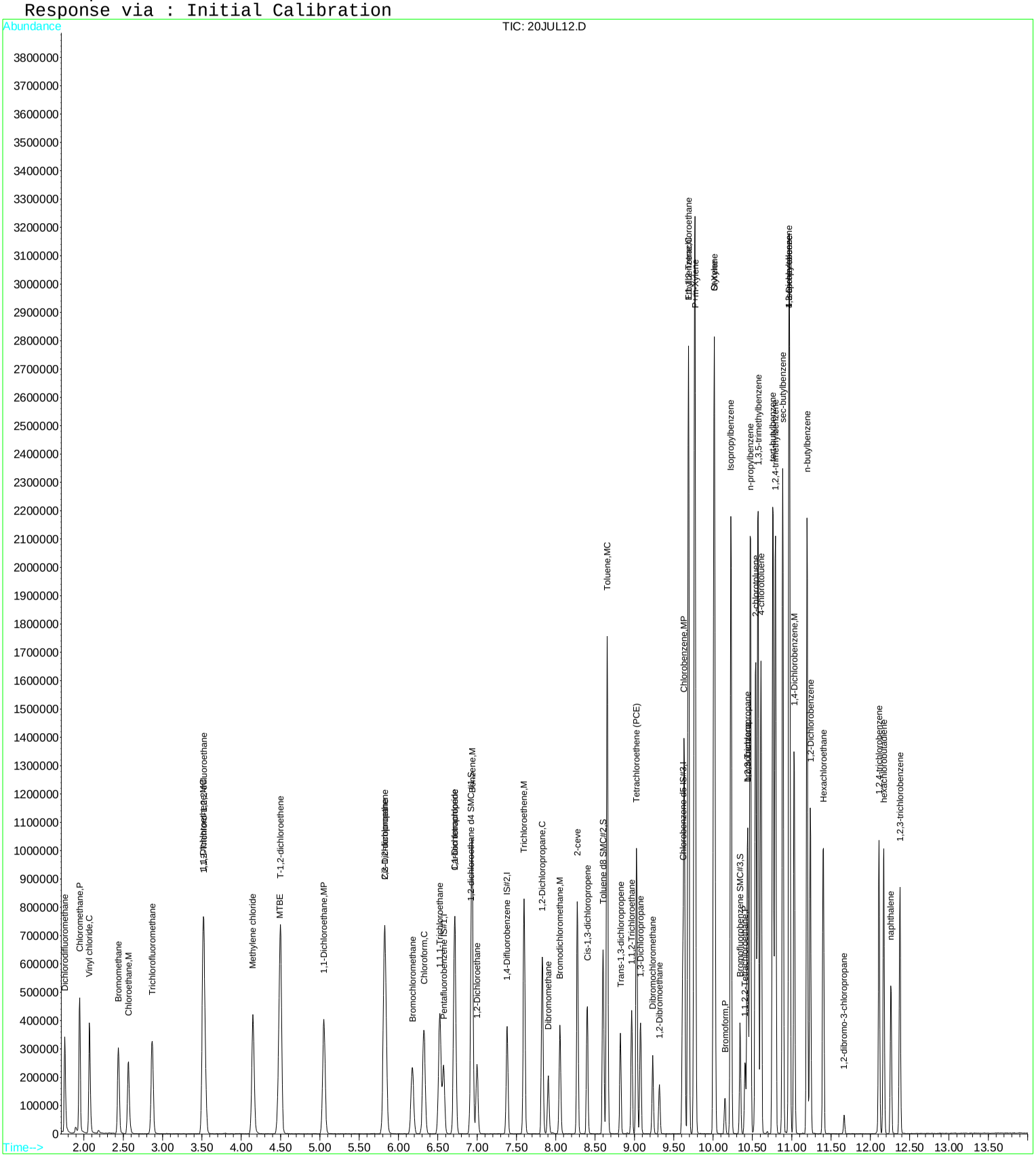
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	219690	25.23	ug/L		88
53)	1,3,5-trimethylbenzene	10.57	105	949684	27.00	ug/L		93
54)	2-chlorotoluene	10.54	91	842498	24.16	ug/L		98
55)	4-chlorotoluene	10.61	91	767453	24.37	ug/L		96
56)	tert-butylbenzene	10.76	119	882705	25.40	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	907566	26.05	ug/L		94
58)	sec-butylbenzene	10.89	105	1254394	26.64	ug/L		100
59)	4-isopropyltoluene	10.97	119	1024754	26.69	ug/L		97
60)	1,3-Dichlorobenzene	10.97	146	453670	24.34	ug/L		95
61)	1,4-Dichlorobenzene	11.03	146	444088	24.38	ug/L		96
62)	n-butylbenzene	11.19	91	933671	26.10	ug/L		99
63)	1,2-Dichlorobenzene	11.23	146	386179	24.02	ug/L		97
64)	Hexachloroethane	11.40	117	135394	21.18	ug/L	#	69
65)	1,2-dibromo-3-chloropropan	11.67	75	15398	28.17	ug/L		91
66)	1,2,4-trichlorobenzene	12.11	180	251966	27.06	ug/L		100
67)	hexachlorobutadiene	12.17	225	162539	25.21	ug/L	#	84
68)	naphthalene	12.26	128	310035	26.50	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	208438	26.67	ug/L	#	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
Acq On : 20 Jul 2017 12:00 pm Operator: MGC
Sample : 1712752-ICV1 Inst : MS-V5
Misc : 1 VO-109-70513;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL24.D Vial: 24
Acq On : 20 Jul 2017 4:36 pm Operator: MGC
Sample : 1712752-ICV2 Inst : MS-V5
Misc : 1 VO-109-70530;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:21 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	179876	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	278423	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74706	10.00	ug/L	0.00

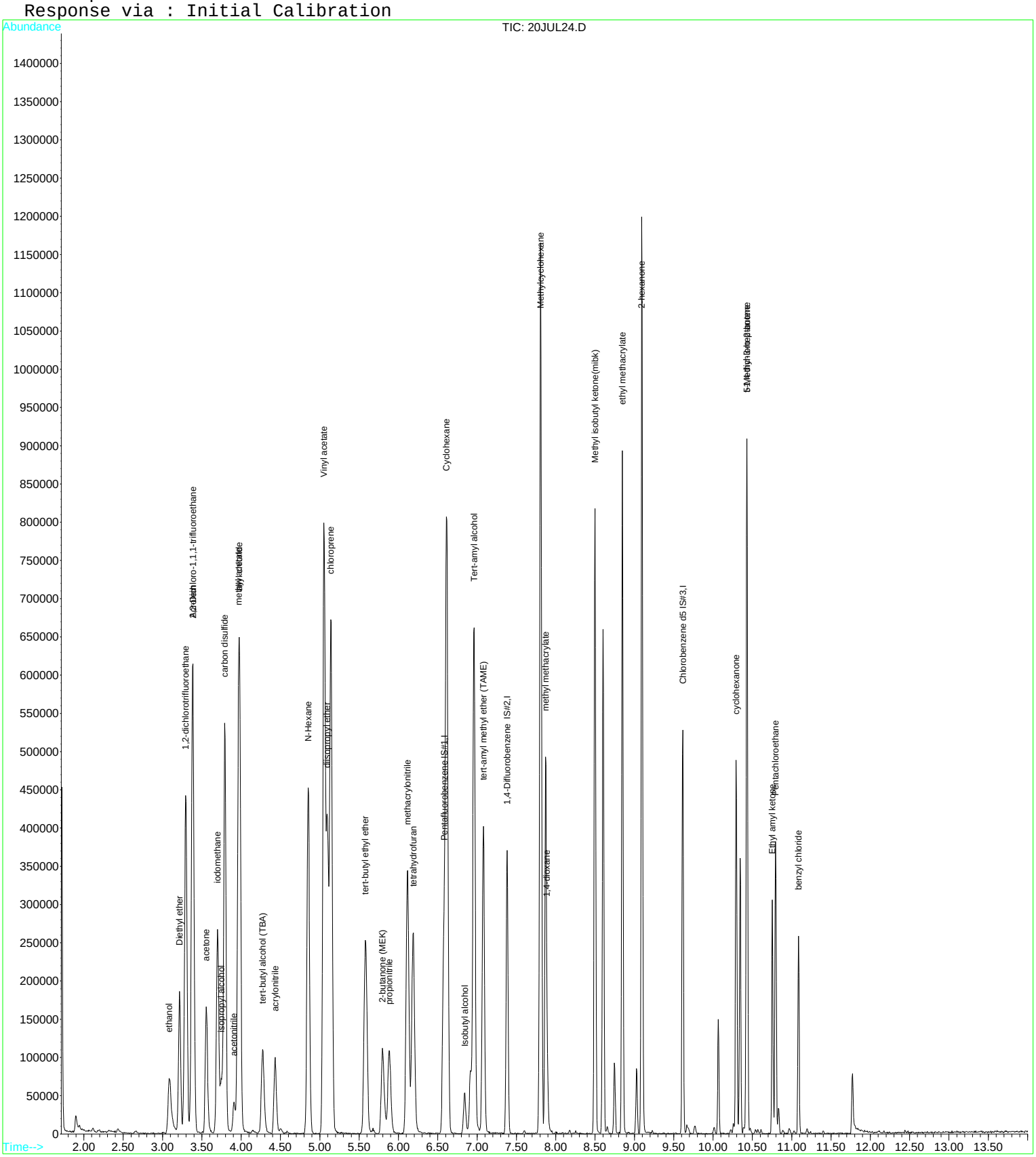
Target Compounds						Qvalue
2) ethanol	3.08	45	127453	3929.60	ug/L #	73
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	420319	24.64	ug/L #	87
4) 1,2-dichlorotrifluoroethan	3.29	67	292511	24.68	ug/L #	81
5) Diethyl ether	3.22	59	118802	26.41	ug/L	90
6) isopropyl alcohol	3.74	45	122507	819.41	ug/L #	1
7) Acrolein	3.39	56	63185	192.76	ug/L	81
8) acetone	3.56	43	230727	311.29	ug/L	100
9) tert-butyl alcohol (TBA)	4.27	59	165706	778.65	ug/L	100
10) acetonitrile	3.91	41	55234	156.48	ug/L	97
11) methyl acetate	3.97	43	568654	254.75	ug/L	91
12) allyl chloride	3.98	41	557738	30.91	ug/L	98
13) iodomethane	3.70	142	364725	34.40	ug/L	97
14) acrylonitrile	4.43	53	96813	79.22	ug/L	93
15) carbon disulfide	3.79	76	824259	30.22	ug/L	99
16) N-Hexane	4.85	57	287419	24.86	ug/L	87
17) diisopropyl ether	5.09	87	104607	15.56	ug/L	85
18) Vinyl acetate	5.05	43	1569127	149.46	ug/L	97
19) chloroprene	5.14	53	566479	29.87	ug/L	93
20) tert-butyl ethyl ether	5.58	59	328771	14.95	ug/L	98
21) 2-butanone (MEK)	5.79	43	197827	150.32	ug/L	91
22) propionitrile	5.88	54	172476	390.39	ug/L #	88
23) Isobutyl alcohol	6.84	43	44736	438.87	ug/L #	44
24) methacrylonitrile	6.12	67	184168	152.91	ug/L	99
25) Tert-amyl alcohol	6.96	59	447157	2592.35	ug/L	96
26) tetrahydrofuran	6.19	42	263903	298.79	ug/L	92
27) Cyclohexane	6.61	56	558244	23.71	ug/L #	75
28) tert-amyl methyl ether (TA	7.09	73	190513	15.74	ug/L	95
30) methyl methacrylate	7.87	69	159661	76.81	ug/L	92
31) Methylcyclohexane	7.81	55	427662	25.13	ug/L	94
32) 1,4-dioxane	7.89	88	49285	1946.96	ug/L	95
33) Methyl isobutyl ketone(mib	8.50	43	469794	150.81	ug/L	98
34) ethyl methacrylate	8.85	69	360408	75.79	ug/L	97
35) 2-hexanone	9.09	43	633115	300.02	ug/L	95
37) 5-Methyl-3-heptanone	10.43	43	169907	49.65	ug/L	88
38) cyclohexanone	10.29	55	183001	370.13	ug/L	100
39) t-1,4-dichloro-2-butene	10.43	75	62206	79.09	ug/L #	67
40) Ethyl amyl ketone	10.75	57	72626	24.56	ug/L #	79
41) Pentachloroethane	10.79	167	44898	15.02	ug/L	99
42) benzyl chloride	11.09	91	141546	28.55	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL24.D Vial: 24
Acq On : 20 Jul 2017 4:36 pm Operator: MGC
Sample : 1712752-ICV2 Inst : MS-V5
Misc : 1 VO-109-70530;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:21 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL14.D Vial: 14
Acq On : 20 Jul 2017 12:46 pm Operator: MGC
Sample : 1712752-ICB1 Inst : MS-V5
Misc : 1 ICB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:51 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181261	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281231	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	73863	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	55952	10.57	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 105.70%			
31) Toluene d8 SMC#2	8.60	98	342270	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			
49) Bromofluorobenzene SMC#3	10.35	95	109375	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.20%			

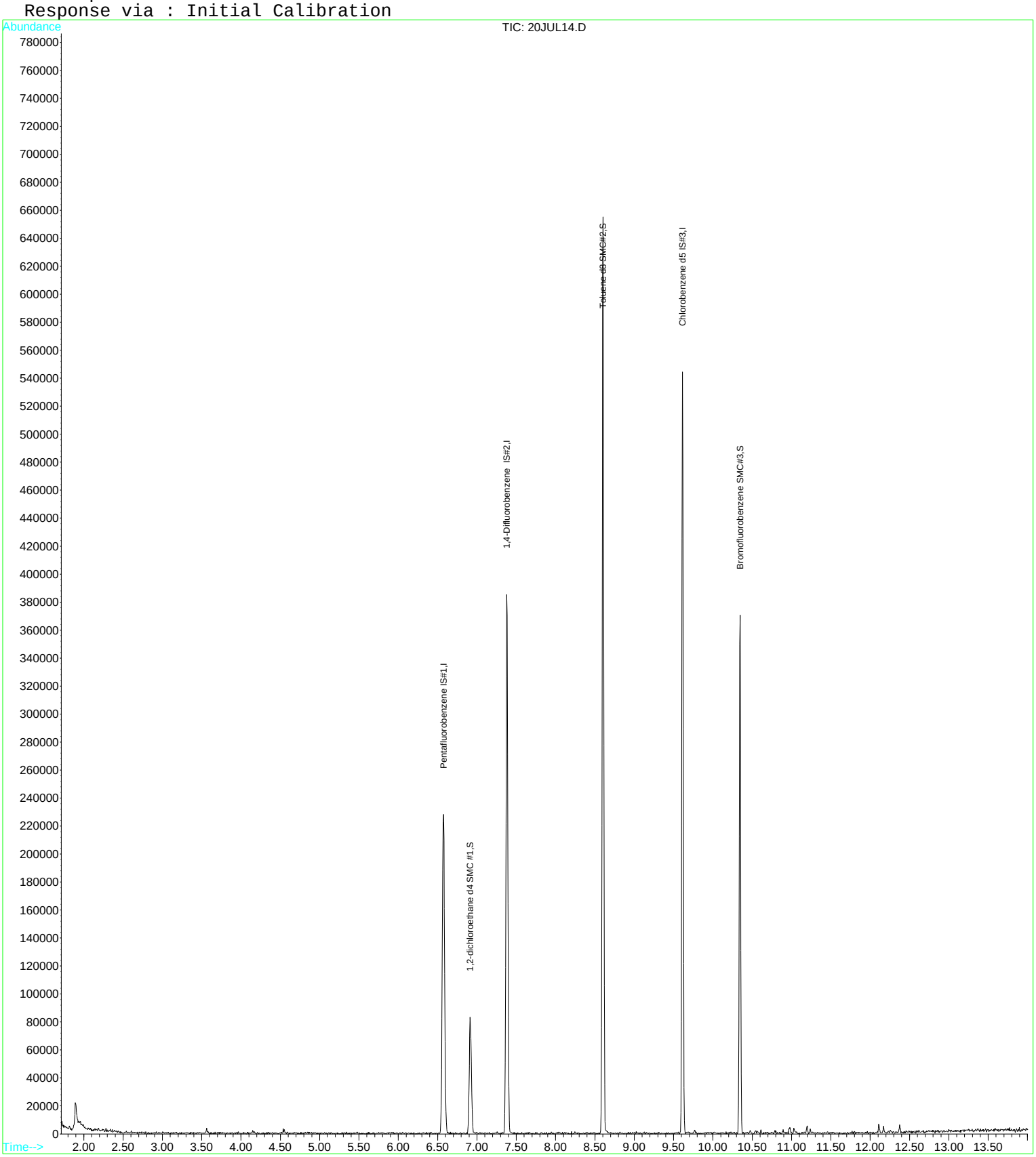
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL14.D Vial: 14
Acq On : 20 Jul 2017 12:46 pm Operator: MGC
Sample : 1712752-ICB1 Inst : MS-V5
Misc : 1 ICB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:51 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL26.D Vial: 26
Acq On : 20 Jul 2017 5:22 pm Operator: MGC
Sample : 1712752-ICB2 Inst : MS-V5
Misc : 1 ICB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:22 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171673	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	268403	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	71809	10.00	ug/L	0.00

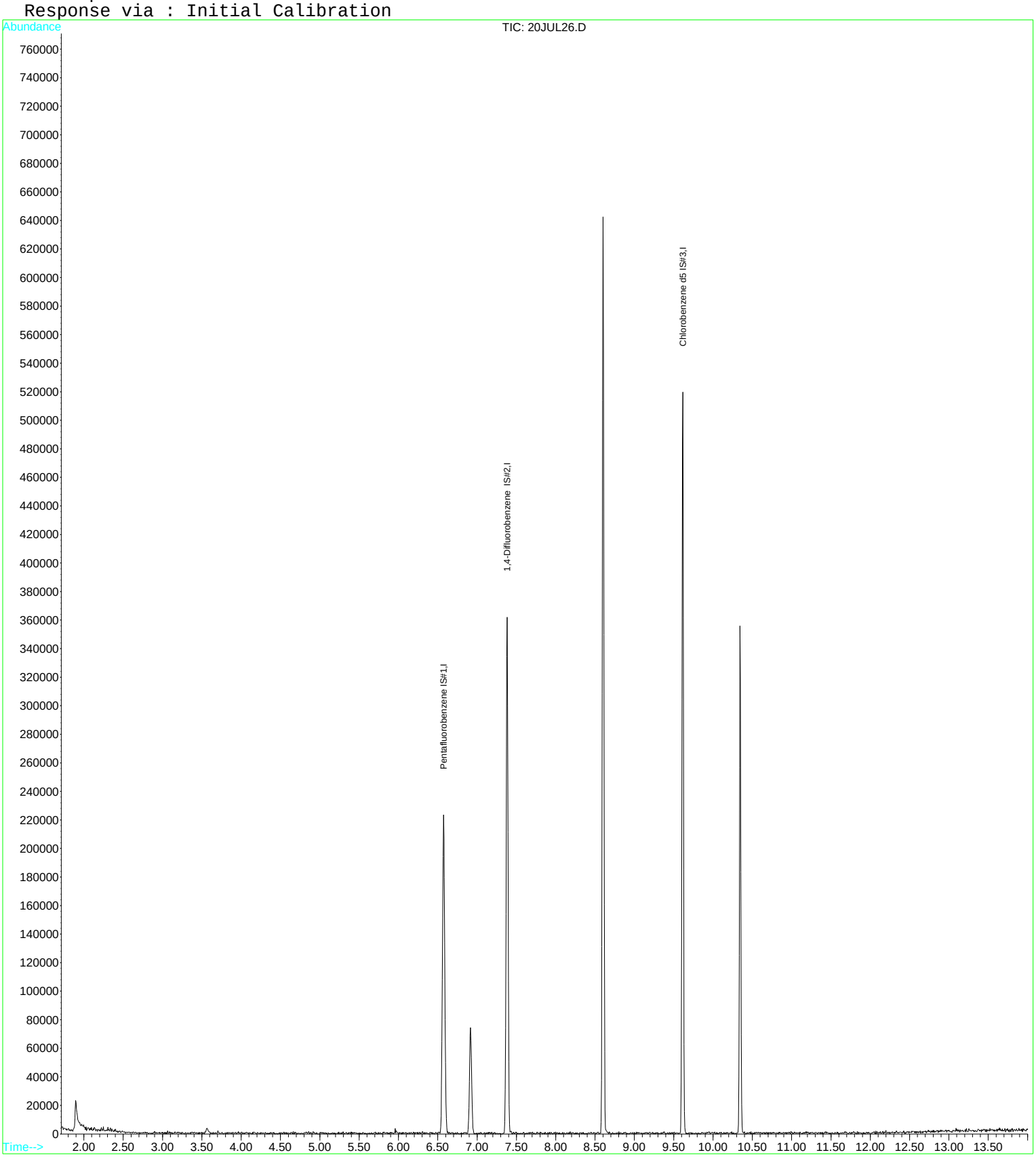
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL26.D Vial: 26
Acq On : 20 Jul 2017 5:22 pm Operator: MGC
Sample : 1712752-ICB2 Inst : MS-V5
Misc : 1 ICB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:22 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL02.D Vial: 2
Acq On : 24 Jul 2017 4:40 am Operator: MGC
Sample : 1712906-CCV1 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 4:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191086	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	299997	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.61	119	76029	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.91	65	54215	9.71	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 97.10%							
31) Toluene d8 SMC#2	8.60	98	357517	9.65	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.50%							
49) Bromofluorobenzene SMC#3	10.35	95	112301	9.89	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.90%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	247514	26.03	ug/L		96
3) Chloromethane	1.94	50	351078	19.53	ug/L		98
4) Vinyl chloride	2.07	62	351589	24.55	ug/L	#	66
5) Bromomethane	2.44	94	137238	17.67	ug/L		90
6) Chloroethane	2.57	64	249547	25.38	ug/L		97
7) Trichlorofluoromethane	2.87	101	300999	25.58	ug/L		99
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	225487	27.91	ug/L	#	83
9) 1,1-Dichloroethene	3.52	61	391922	25.42	ug/L		96
10) Methylene chloride	4.15	84	201316	24.42	ug/L		96
11) MTBE	4.48	73	273193	23.68	ug/L	#	80
12) T-1,2-dichloroethene	4.50	96	243097	25.40	ug/L		91
13) 1,1-Dichloroethane	5.05	63	515148	25.19	ug/L		99
14) 2,2-Dichloropropane	5.83	77	313095	27.21	ug/L		87
15) Cis-1,2-dichloroethene	5.82	96	249280	24.98	ug/L		95
16) Bromochloromethane	6.18	128	80806	25.41	ug/L	#	85
17) Chloroform	6.32	83	354188	24.48	ug/L		94
18) 1,1,1-Trichloroethane	6.53	97	318840	25.46	ug/L	#	76
19) 1,1-Dichloropropene	6.72	75	340231	26.01	ug/L		95
20) Carbon tetrachloride	6.71	119	225187	26.23	ug/L		93
22) 1,2-Dichloroethane	7.00	62	180786	23.26	ug/L	#	86
23) Benzene	6.93	78	1016021	25.97	ug/L	#	7
25) Trichloroethene	7.60	130	260620	25.30	ug/L		89
26) 1,2-Dichloropropane	7.83	63	284542	25.00	ug/L		93
27) Dibromomethane	7.91	93	70974	24.70	ug/L		98
28) Bromodichloromethane	8.06	83	213256	24.69	ug/L		91
29) 2-ceve	8.28	63	265176	90.21	ug/L	#	73
30) Cis-1,3-dichloropropene	8.40	75	286320	26.55	ug/L		97
32) Toluene	8.66	92	664213	25.56	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	185532	26.36	ug/L	#	85
34) 1,1,2-Trichloroethane	8.97	97	110341	23.63	ug/L		87
35) Tetrachloroethene (PCE)	9.03	166	247829	25.10	ug/L		94
36) 1,3-Dichloropropane	9.08	76	180820	23.84	ug/L		92
37) Dibromochloromethane	9.23	129	116877	25.90	ug/L	#	95
38) 1,2-Dibromoethane	9.32	107	92174	23.75	ug/L		96
40) Chlorobenzene	9.63	112	639705	25.37	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	171398	27.63	ug/L		98
42) Ethylbenzene	9.69	106	395526	26.70	ug/L		82
43) P+m-Xylene	9.77	106	940326	51.89	ug/L		100
44) O-Xylene	10.01	106	431989	25.80	ug/L		91
45) Styrene	10.02	104	678999	26.60	ug/L		92
46) Bromoform	10.16	173	51691	27.70	ug/L	#	100
47) Isopropylbenzene	10.23	105	1167207	26.93	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.41	83	107510	26.01	ug/L		92
50) 1,2,3-Trichloropropane	10.45	110	21410	24.36	ug/L	#	19
51) n-propylbenzene	10.47	91	1448245	25.73	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL02.D Vial: 2
Acq On : 24 Jul 2017 4:40 am Operator: MGC
Sample : 1712906-CCV1 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 4:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

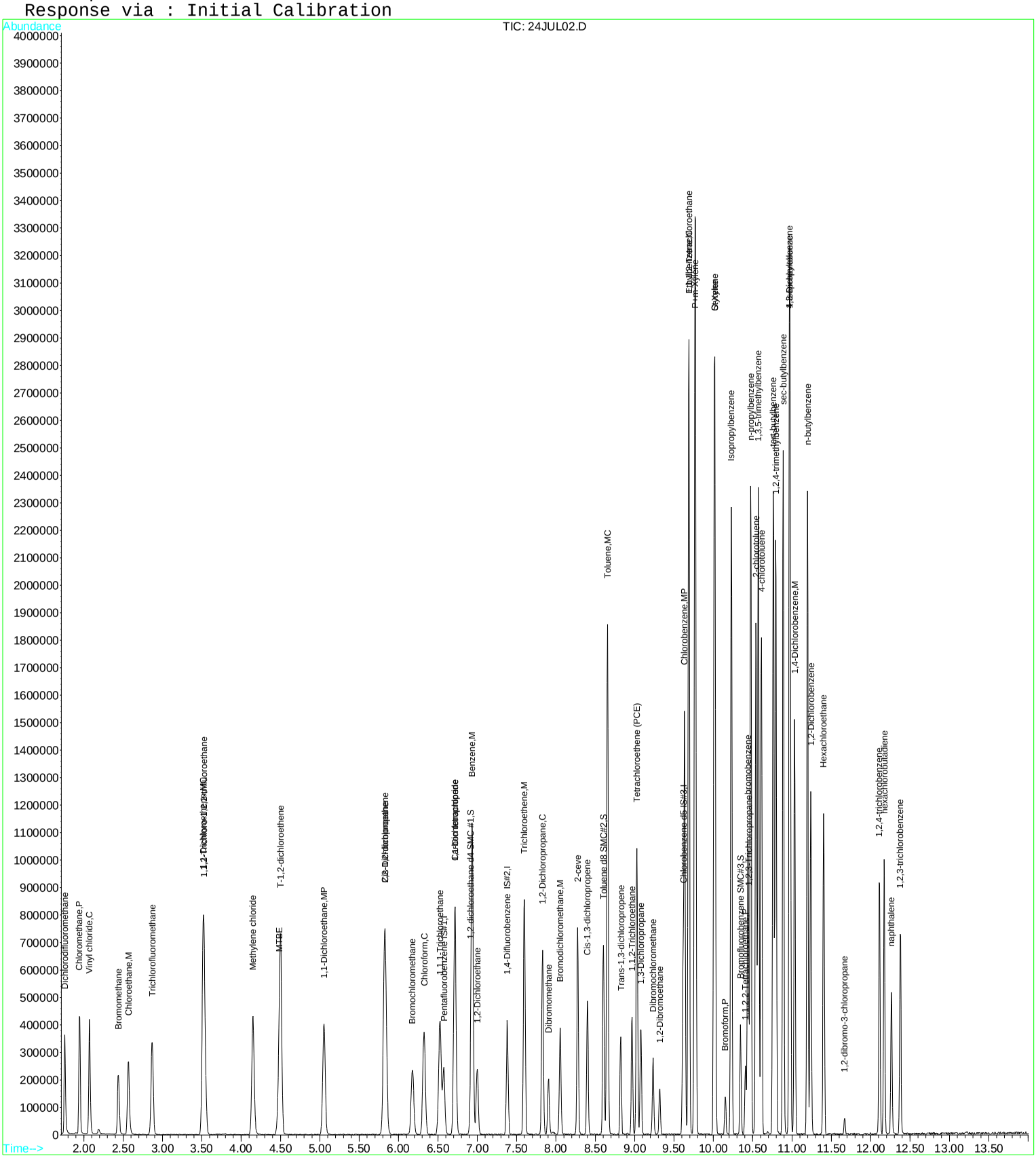
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	218683	24.63	ug/L		87
53)	1,3,5-trimethylbenzene	10.57	105	975328	27.19	ug/L		92
54)	2-chlorotoluene	10.54	91	930904	26.18	ug/L		99
55)	4-chlorotoluene	10.61	91	848709	26.43	ug/L		97
56)	tert-butylbenzene	10.76	119	920178	25.97	ug/L		97
57)	1,2,4-trimethylbenzene	10.79	105	929079	26.15	ug/L		96
58)	sec-butylbenzene	10.89	105	1328855	27.68	ug/L		99
59)	4-isopropyltoluene	10.97	119	1059945	27.07	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	503256	26.48	ug/L		93
61)	1,4-Dichlorobenzene	11.03	146	487827	26.26	ug/L		95
62)	n-butylbenzene	11.20	91	992023	27.19	ug/L		99
63)	1,2-Dichlorobenzene	11.24	146	413146	25.20	ug/L		98
64)	Hexachloroethane	11.40	117	162883	24.67	ug/L	#	66
65)	1,2-dibromo-3-chloropropan	11.67	75	14068	25.24	ug/L		96
66)	1,2,4-trichlorobenzene	12.11	180	235563	24.81	ug/L		99
67)	hexachlorobutadiene	12.17	225	161452	24.56	ug/L	#	86
68)	naphthalene	12.26	128	303955	25.48	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	184595	23.16	ug/L	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL02.D Vial: 2
Acq On : 24 Jul 2017 4:40 am Operator: MGC
Sample : 1712906-CCV1 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 4:54 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL03.D Vial: 3
Acq On : 24 Jul 2017 5:03 am Operator: MGC
Sample : 1712906-CCV2 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 5:21 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	187472	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	292956	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	75257	10.00	ug/L		0.00

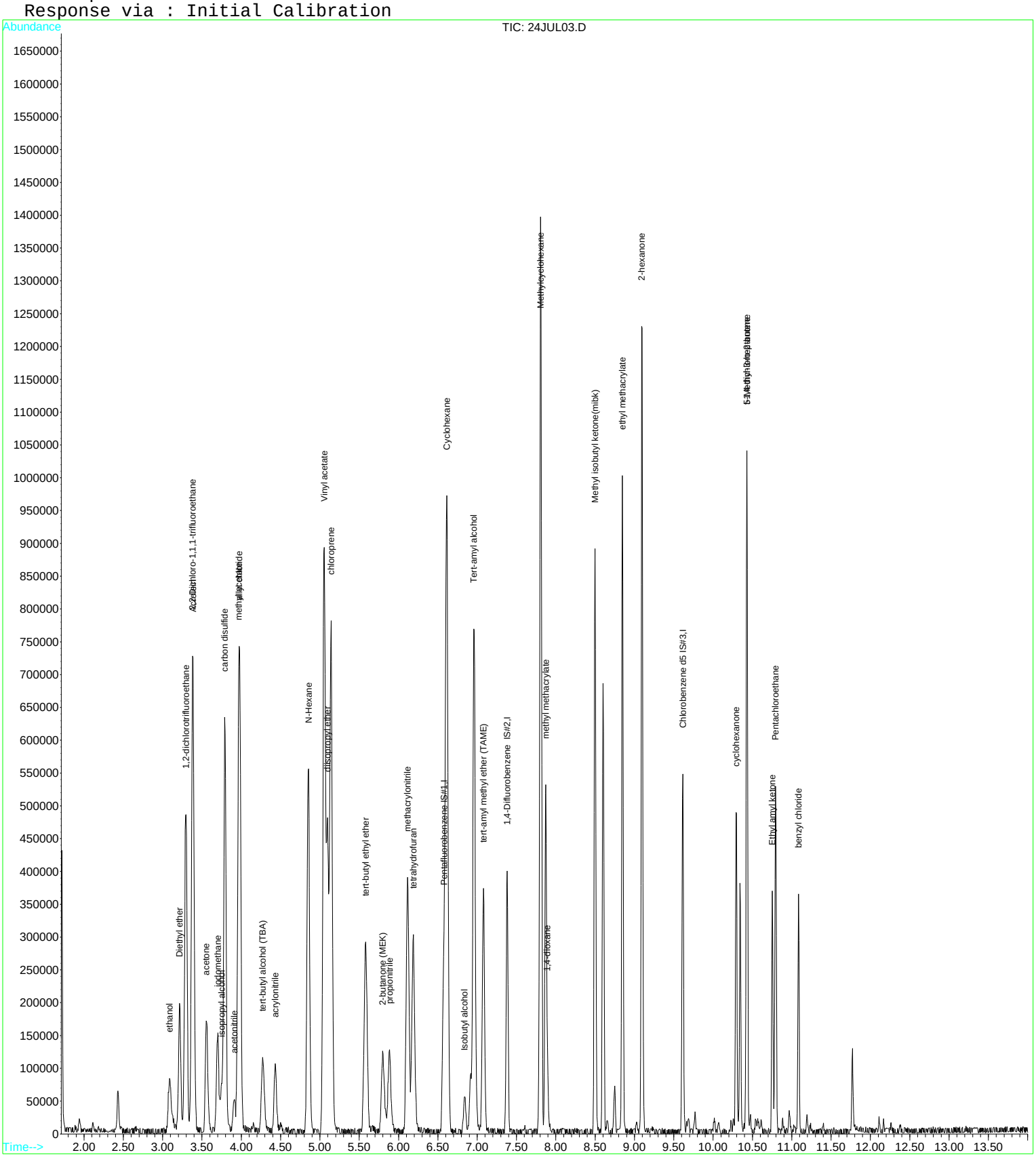
Target Compounds							Qvalue
2) ethanol	3.09	45	139885	4138.15	ug/L	#	72
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	508044	28.58	ug/L	#	89
4) 1,2-dichlorotrifluoroethan	3.30	67	338117	27.37	ug/L	#	84
5) Diethyl ether	3.22	59	123682	26.38	ug/L		89
6) isopropyl alcohol	3.75	45	131349	842.96	ug/L	#	1
7) Acrolein	3.39	56	80305	235.06	ug/L		85
8) acetone	3.56	43	242647	314.11	ug/L		96
9) tert-butyl alcohol (TBA)	4.28	59	178485	804.71	ug/L		100
10) acetonitrile	3.91	41	65088	176.92	ug/L		79
11) methyl acetate	3.96	43	602531	258.99	ug/L	#	88
12) allyl chloride	3.98	41	648253	34.47	ug/L		97
13) iodomethane	3.70	142	202321	18.31	ug/L		99
14) acrylonitrile	4.44	53	104762	82.25	ug/L		92
15) carbon disulfide	3.79	76	981829	34.54	ug/L		99
16) N-Hexane	4.86	57	355147	29.47	ug/L		86
17) diisopropyl ether	5.10	87	116163	16.58	ug/L		86
18) Vinyl acetate	5.05	43	1771226	161.88	ug/L		97
19) chloroprene	5.14	53	637726	32.26	ug/L		90
20) tert-butyl ethyl ether	5.58	59	362263	15.80	ug/L		98
21) 2-butanone (MEK)	5.80	43	211148	153.95	ug/L		94
22) propionitrile	5.89	54	190192	413.04	ug/L	#	91
23) Isobutyl alcohol	6.84	43	44883	422.48	ug/L	#	36
24) methacrylonitrile	6.12	67	208200	165.86	ug/L		98
25) Tert-amyl alcohol	6.96	59	539962	3003.55	ug/L		93
26) tetrahydrofuran	6.19	42	289121	314.08	ug/L	#	89
27) Cyclohexane	6.61	56	654979	26.70	ug/L	#	73
28) tert-amyl methyl ether (TA	7.08	73	210762	16.71	ug/L		89
30) methyl methacrylate	7.87	69	186245	85.15	ug/L		97
31) Methylcyclohexane	7.81	55	499454	27.89	ug/L		92
32) 1,4-dioxane	7.89	88	56784	2131.92	ug/L		95
33) Methyl isobutyl ketone(mib	8.50	43	517715	157.95	ug/L		99
34) ethyl methacrylate	8.85	69	409422	81.83	ug/L		96
35) 2-hexanone	9.09	43	672689	302.96	ug/L		95
37) 5-Methyl-3-heptanone	10.43	43	183816	53.32	ug/L		89
38) cyclohexanone	10.30	55	192490	386.47	ug/L		98
39) t-1,4-dichloro-2-butene	10.42	75	84267	106.35	ug/L	#	53
40) Ethyl amyl ketone	10.75	57	86002	28.87	ug/L	#	77
41) Pentachloroethane	10.80	167	64814	21.53	ug/L		98
42) benzyl chloride	11.09	91	193675	37.81	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL03.D Vial: 3
Acq On : 24 Jul 2017 5:03 am Operator: MGC
Sample : 1712906-CCV2 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 5:21 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL32.D Vial: 32
Acq On : 24 Jul 2017 4:35 pm Operator: MGC
Sample : 1712906-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 16:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	197596	10.00 ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	299126	10.00 ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	77983	10.00 ug/L	0.00

System Monitoring Compounds					
21) 1,2-dichloroethane d4 SMC	6.92	65	55124	9.55 ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 95.50%					
31) Toluene d8 SMC#2	8.60	98	365586	9.90 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.00%					
49) Bromofluorobenzene SMC#3	10.34	95	116058	9.97 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.70%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.76	85	224452	22.83 ug/L	96
3) Chloromethane	1.95	50	325443	17.51 ug/L	98
4) Vinyl chloride	2.07	62	319839	21.60 ug/L #	65
5) Bromomethane	2.44	94	138882	17.29 ug/L	91
6) Chloroethane	2.57	64	231161	22.73 ug/L	98
7) Trichlorofluoromethane	2.87	101	286767	23.56 ug/L	99
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	206173	24.68 ug/L #	83
9) 1,1-Dichloroethene	3.51	61	373242	23.41 ug/L	96
10) Methylene chloride	4.15	84	199931	23.45 ug/L	95
11) MTBE	4.49	73	278213	23.32 ug/L #	79
12) T-1,2-dichloroethene	4.50	96	231639	23.40 ug/L	91
13) 1,1-Dichloroethane	5.06	63	487808	23.07 ug/L	100
14) 2,2-Dichloropropane	5.83	77	274260	23.05 ug/L	95
15) Cis-1,2-dichloroethene	5.82	96	239640	23.22 ug/L	94
16) Bromochloromethane	6.18	128	77542	23.58 ug/L #	88
17) Chloroform	6.33	83	341804	22.85 ug/L	95
18) 1,1,1-Trichloroethane	6.53	97	295829	22.84 ug/L #	72
19) 1,1-Dichloropropene	6.72	75	320856	23.72 ug/L	94
20) Carbon tetrachloride	6.71	119	206349	23.24 ug/L	92
22) 1,2-Dichloroethane	7.00	62	181368	22.56 ug/L #	87
23) Benzene	6.94	78	958442	23.69 ug/L #	6
25) Trichloroethene	7.60	130	252342	24.57 ug/L	87
26) 1,2-Dichloropropane	7.83	63	270072	23.80 ug/L	93
27) Dibromomethane	7.90	93	68682	23.98 ug/L	94
28) Bromodichloromethane	8.05	83	208045	24.16 ug/L	92
29) 2-ceve	8.27	63	274425	93.63 ug/L #	74
30) Cis-1,3-dichloropropene	8.40	75	265647	24.71 ug/L	97
32) Toluene	8.66	92	628635	24.26 ug/L	93
33) Trans-1,3-dichloropropene	8.82	75	181569	25.87 ug/L #	86
34) 1,1,2-Trichloroethane	8.96	97	110367	23.70 ug/L	86
35) Tetrachloroethene (PCE)	9.03	166	236229	24.00 ug/L	94
36) 1,3-Dichloropropane	9.08	76	178756	23.64 ug/L	93
37) Dibromochloromethane	9.24	129	113696	25.27 ug/L #	96
38) 1,2-Dibromoethane	9.32	107	90753	23.45 ug/L	93
40) Chlorobenzene	9.64	112	616824	23.85 ug/L	90
41) 1,1,1,2-Tetrachloroethane	9.69	131	165157	25.95 ug/L	94
42) Ethylbenzene	9.69	106	376279	24.77 ug/L	80
43) P+m-Xylene	9.77	106	889369	47.85 ug/L	99
44) O-Xylene	10.01	106	425448	24.77 ug/L	90
45) Styrene	10.02	104	658963	25.17 ug/L	92
46) Bromoform	10.15	173	48187	25.17 ug/L #	100
47) Isopropylbenzene	10.23	105	1084151	24.39 ug/L	96
48) 1,1,2,2-Tetrachloroethane	10.41	83	110838	26.14 ug/L	89
50) 1,2,3-Trichloropropane	10.45	110	22937	25.44 ug/L #	16
51) n-propylbenzene	10.48	91	1365028	23.64 ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL32.D Vial: 32
Acq On : 24 Jul 2017 4:35 pm Operator: MGC
Sample : 1712906-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 16:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

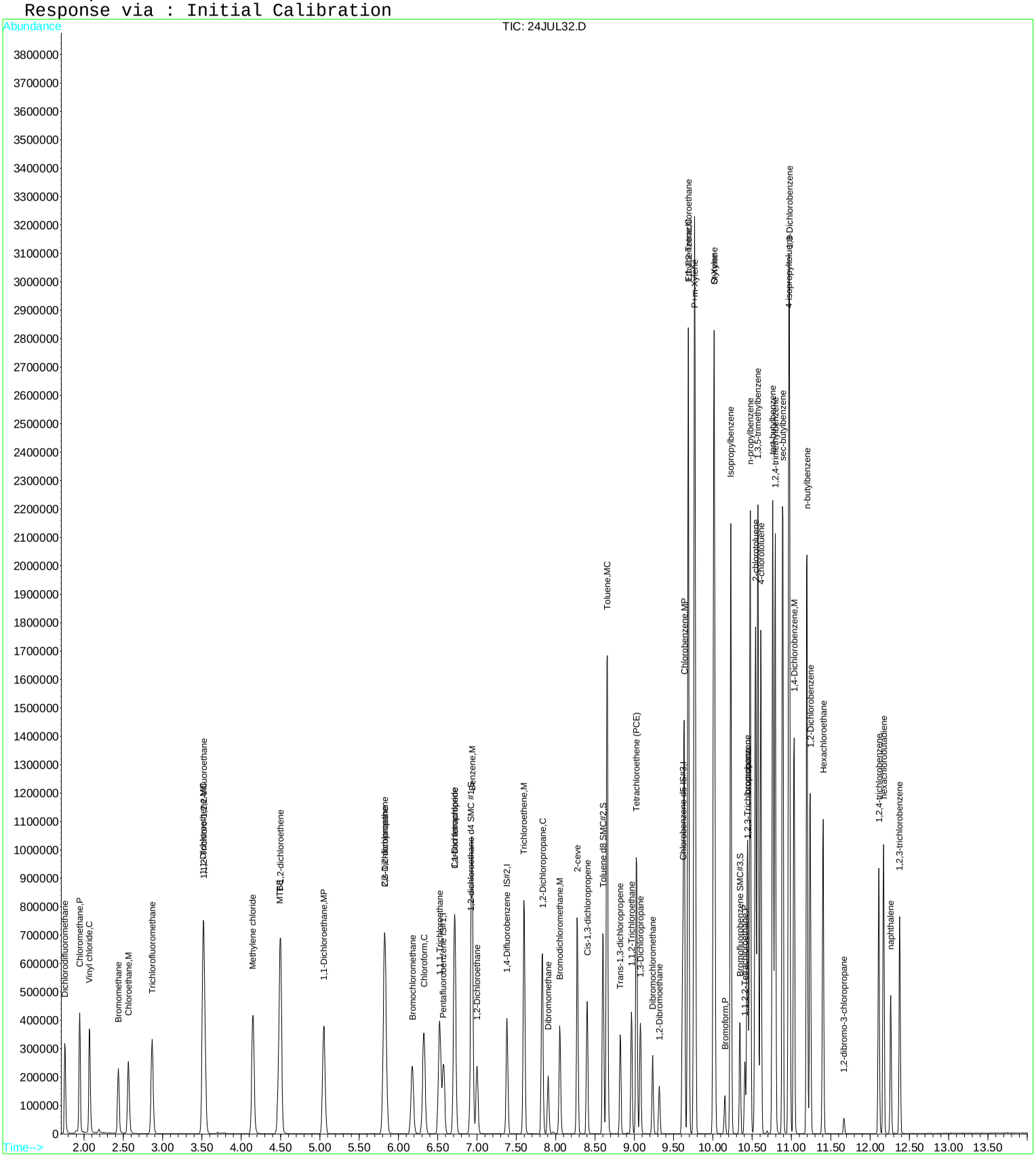
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	217323	23.86	ug/L		89
53)	1,3,5-trimethylbenzene	10.57	105	926106	25.17	ug/L		93
54)	2-chlorotoluene	10.54	91	898237	24.63	ug/L		99
55)	4-chlorotoluene	10.61	91	798397	24.24	ug/L		98
56)	tert-butylbenzene	10.76	119	968947	26.66	ug/L		87
57)	1,2,4-trimethylbenzene	10.79	105	884811	24.28	ug/L		93
58)	sec-butylbenzene	10.89	105	1230613	24.99	ug/L		99
59)	4-isopropyltoluene	10.97	119	998635	24.87	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	484895	24.87	ug/L		93
61)	1,4-Dichlorobenzene	11.03	146	474885	24.92	ug/L		94
62)	n-butylbenzene	11.20	91	902601	24.12	ug/L		99
63)	1,2-Dichlorobenzene	11.24	146	405418	24.11	ug/L		98
64)	Hexachloroethane	11.40	117	149115	22.21	ug/L	#	69
65)	1,2-dibromo-3-chloropropan	11.66	75	12985	22.72	ug/L		98
66)	1,2,4-trichlorobenzene	12.11	180	230928	23.71	ug/L		99
67)	hexachlorobutadiene	12.17	225	158949	23.57	ug/L	#	86
68)	naphthalene	12.26	128	289073	23.63	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	185367	22.68	ug/L	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL32.D Vial: 32
Acq On : 24 Jul 2017 4:35 pm Operator: MGC
Sample : 1712906-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 16:49 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL33.D Vial: 33
Acq On : 24 Jul 2017 4:58 pm Operator: MGC
Sample : 1712906-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:24 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	195524	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	301296	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	76855	10.00	ug/L		0.00

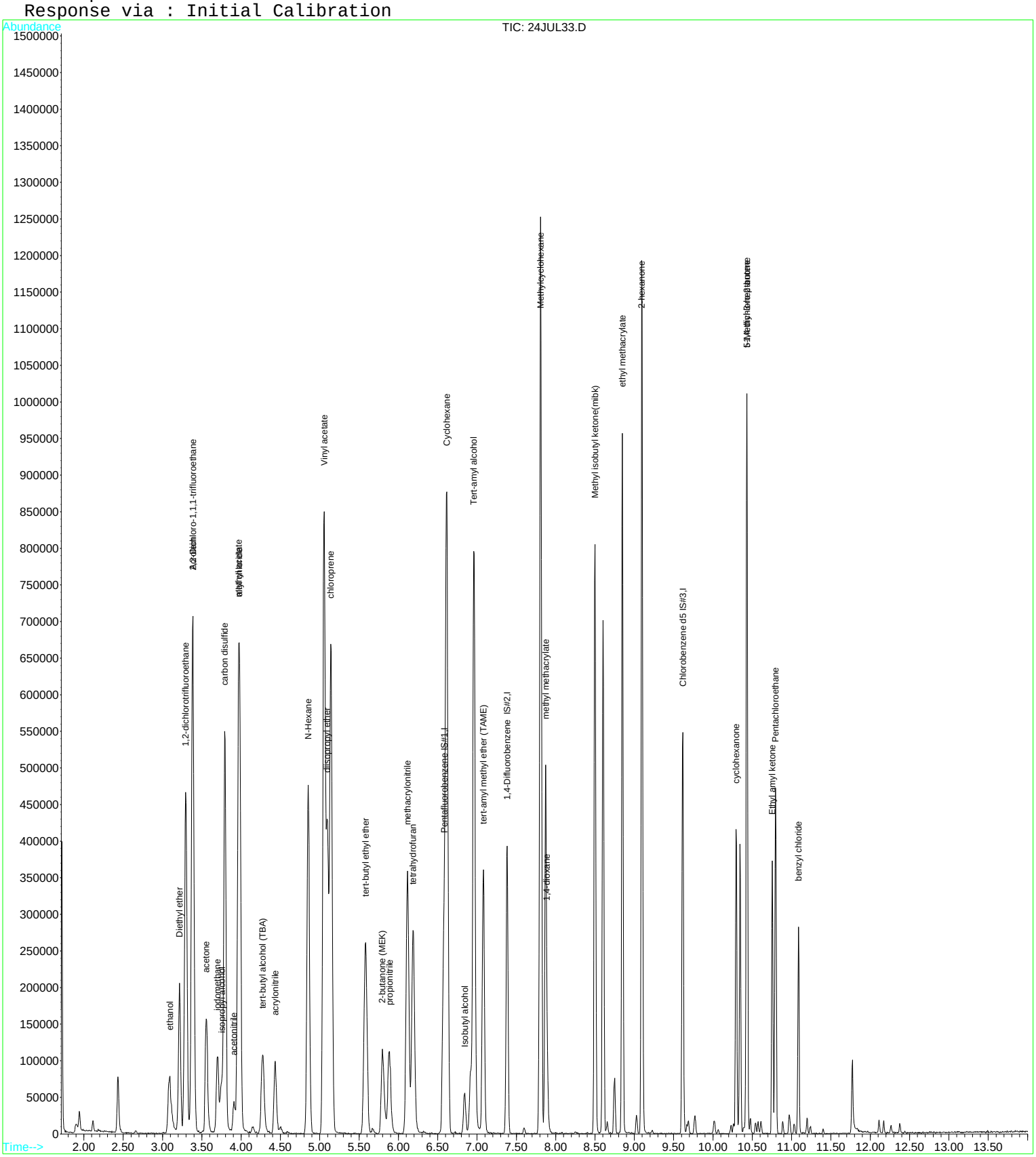
Target Compounds							Qvalue
2) ethanol	3.09	45	137756	3907.35	ug/L	#	75
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	466826	25.18	ug/L	#	88
4) 1,2-dichlorotrifluoroethan	3.30	67	316986	24.61	ug/L	#	81
5) Diethyl ether	3.22	59	132105	27.02	ug/L		88
6) isopropyl alcohol	3.75	45	130426	802.56	ug/L	#	1
7) Acrolein	3.39	56	92412	259.36	ug/L		83
8) acetone	3.56	43	230638	286.27	ug/L		99
9) tert-butyl alcohol (TBA)	4.27	59	174750	755.43	ug/L		100
10) acetonitrile	3.91	41	56417	147.04	ug/L		97
11) methyl acetate	3.97	43	618706	254.99	ug/L	#	89
12) allyl chloride	3.98	41	564840	28.80	ug/L		97
13) iodomethane	3.70	142	149905	13.01	ug/L		98
14) acrylonitrile	4.43	53	98327	74.02	ug/L		92
15) carbon disulfide	3.79	76	848486	28.62	ug/L		100
16) N-Hexane	4.85	57	297672	23.68	ug/L		86
17) diisopropyl ether	5.10	87	106385	14.56	ug/L		88
18) Vinyl acetate	5.06	43	1676062	146.87	ug/L		96
19) chloroprene	5.14	53	556382	26.99	ug/L		90
20) tert-butyl ethyl ether	5.58	59	336913	14.09	ug/L		100
21) 2-butanone (MEK)	5.79	43	205667	143.77	ug/L		90
22) propionitrile	5.89	54	181748	378.45	ug/L	#	91
23) Isobutyl alcohol	6.84	43	46419	418.94	ug/L	#	41
24) methacrylonitrile	6.12	67	195008	148.95	ug/L		96
25) Tert-amyl alcohol	6.96	59	563502	3005.40	ug/L		93
26) tetrahydrofuran	6.19	42	281082	292.77	ug/L	#	90
27) Cyclohexane	6.61	56	607601	23.74	ug/L	#	75
28) tert-amyl methyl ether (TA	7.08	73	200675	15.26	ug/L		90
30) methyl methacrylate	7.87	69	175819	78.16	ug/L		99
31) Methylcyclohexane	7.81	55	447794	24.32	ug/L		93
32) 1,4-dioxane	7.89	88	51379	1875.60	ug/L		94
33) Methyl isobutyl ketone(mib	8.50	43	484735	143.80	ug/L		99
34) ethyl methacrylate	8.85	69	387828	75.36	ug/L		95
35) 2-hexanone	9.09	43	643478	281.78	ug/L		95
37) 5-Methyl-3-heptanone	10.43	43	187335	53.22	ug/L		90
38) cyclohexanone	10.29	55	158633	311.87	ug/L		99
39) t-1,4-dichloro-2-butene	10.43	75	69345	85.70	ug/L	#	58
40) Ethyl amyl ketone	10.75	57	89488	29.42	ug/L	#	77
41) Pentachloroethane	10.80	167	57155	18.59	ug/L		95
42) benzyl chloride	11.09	91	150821	29.48	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL33.D Vial: 33
Acq On : 24 Jul 2017 4:58 pm Operator: MGC
Sample : 1712906-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:24 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL62.D Vial: 62
Acq On : 25 Jul 2017 4:06 am Operator: MGC
Sample : 1712906-CCV7 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 4:20 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	176401	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	265804	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	71558	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	49537	9.61	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 96.10%						
31) Toluene d8 SMC#2	8.60	98	326626	9.95	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.50%						
49) Bromofluorobenzene SMC#3	10.34	95	101553	9.50	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 95.00%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	220791	25.15	ug/L	96
3) Chloromethane	1.95	50	305619	18.42	ug/L	98
4) Vinyl chloride	2.07	62	313735	23.73	ug/L #	68
5) Bromomethane	2.44	94	78501	10.95	ug/L #	89
6) Chloroethane	2.57	64	217231	23.93	ug/L	96
7) Trichlorofluoromethane	2.87	101	285188	26.25	ug/L	99
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	195098	26.16	ug/L #	85
9) 1,1-Dichloroethene	3.51	61	360586	25.33	ug/L	95
10) Methylene chloride	4.15	84	183719	24.14	ug/L	97
11) MTBE	4.49	73	257616	24.18	ug/L #	79
12) T-1,2-dichloroethene	4.50	96	220913	25.00	ug/L	93
13) 1,1-Dichloroethane	5.05	63	465613	24.67	ug/L	98
14) 2,2-Dichloropropane	5.83	77	212030	19.96	ug/L	83
15) Cis-1,2-dichloroethene	5.82	96	225495	24.48	ug/L	93
16) Bromochloromethane	6.18	128	71829	24.47	ug/L #	89
17) Chloroform	6.33	83	325101	24.34	ug/L	93
18) 1,1,1-Trichloroethane	6.53	97	290586	25.13	ug/L #	73
19) 1,1-Dichloropropene	6.72	75	301164	24.94	ug/L	93
20) Carbon tetrachloride	6.71	119	198136	25.00	ug/L	92
22) 1,2-Dichloroethane	7.00	62	180342	25.13	ug/L #	89
23) Benzene	6.94	78	903743	25.02	ug/L #	7
25) Trichloroethene	7.60	130	250805	27.48	ug/L	89
26) 1,2-Dichloropropane	7.83	63	256517	25.44	ug/L	94
27) Dibromomethane	7.90	93	67150	26.38	ug/L	98
28) Bromodichloromethane	8.05	83	196322	25.66	ug/L	91
29) 2-ceve	8.27	63	248751	95.51	ug/L #	75
30) Cis-1,3-dichloropropene	8.40	75	238953	25.01	ug/L	96
32) Toluene	8.65	92	594004	25.80	ug/L	92
33) Trans-1,3-dichloropropene	8.82	75	161008	25.82	ug/L #	86
34) 1,1,2-Trichloroethane	8.97	97	101530	24.54	ug/L	86
35) Tetrachloroethene (PCE)	9.03	166	238555	27.27	ug/L	94
36) 1,3-Dichloropropane	9.08	76	164103	24.42	ug/L	94
37) Dibromochloromethane	9.23	129	105606	26.41	ug/L #	94
38) 1,2-Dibromoethane	9.32	107	84310	24.52	ug/L	97
40) Chlorobenzene	9.63	112	580864	24.48	ug/L	90
41) 1,1,1,2-Tetrachloroethane	9.69	131	156938	26.88	ug/L	96
42) Ethylbenzene	9.69	106	355760	25.52	ug/L	81
43) P+m-Xylene	9.77	106	852445	49.98	ug/L	99
44) O-Xylene	10.01	106	399097	25.32	ug/L	90
45) Styrene	10.02	104	613969	25.56	ug/L	93
46) Bromoform	10.15	173	45070	25.66	ug/L #	100
47) Isopropylbenzene	10.23	105	1064888	26.10	ug/L	99
48) 1,1,2,2-Tetrachloroethane	10.40	83	86796	22.31	ug/L	99
50) 1,2,3-Trichloropropane	10.45	110	21757	26.30	ug/L #	14
51) n-propylbenzene	10.48	91	1287189	24.30	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL62.D Vial: 62
Acq On : 25 Jul 2017 4:06 am Operator: MGC
Sample : 1712906-CCV7 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 4:20 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

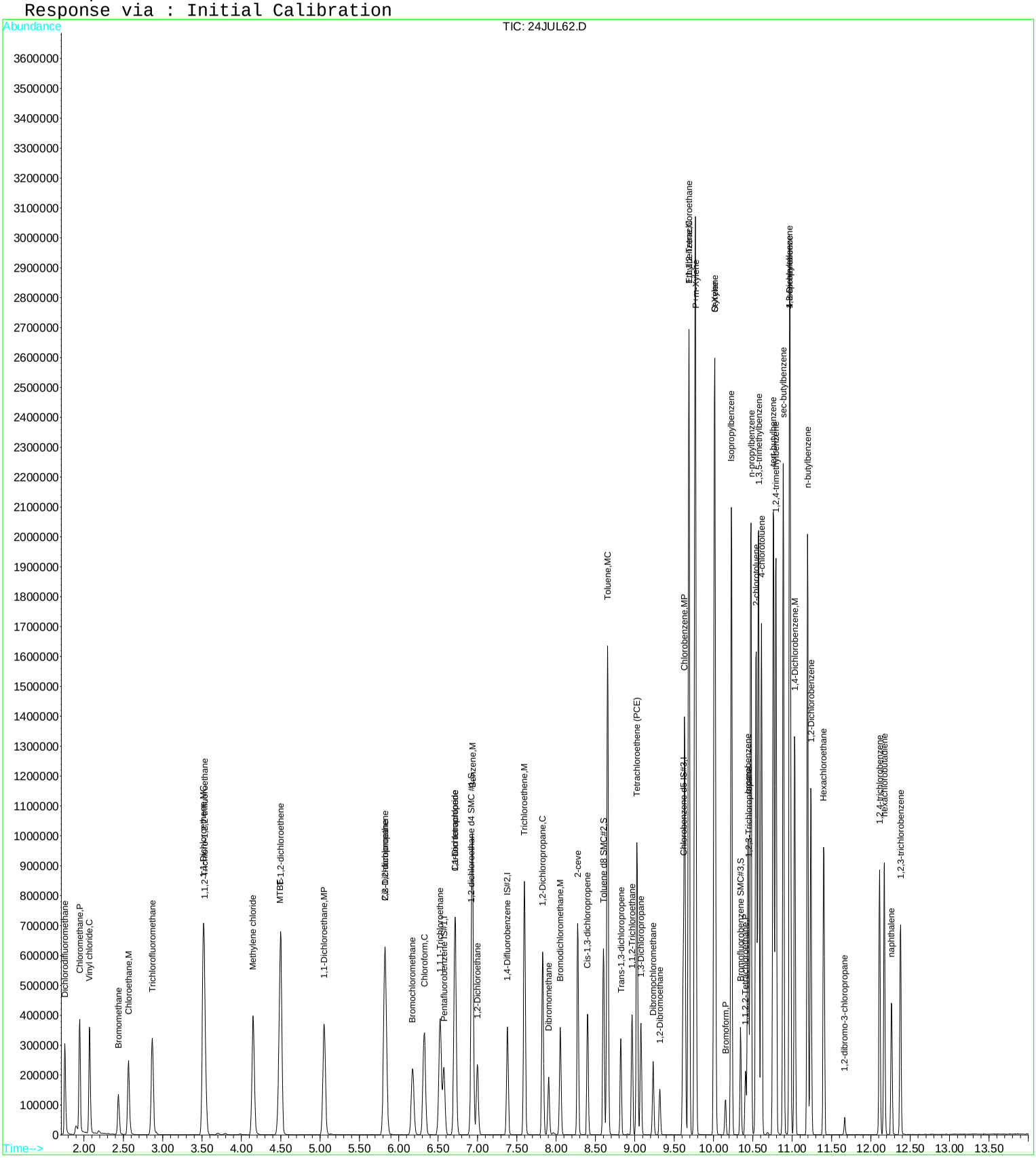
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	208398	24.94	ug/L		91
53)	1,3,5-trimethylbenzene	10.57	105	873692	25.88	ug/L		93
54)	2-chlorotoluene	10.54	91	850192	25.40	ug/L		98
55)	4-chlorotoluene	10.61	91	761285	25.19	ug/L		98
56)	tert-butylbenzene	10.76	119	833202	24.98	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	844400	25.25	ug/L		96
58)	sec-butylbenzene	10.89	105	1180287	26.12	ug/L		99
59)	4-isopropyltoluene	10.97	119	933417	25.33	ug/L		97
60)	1,3-Dichlorobenzene	10.97	146	458134	25.61	ug/L		94
61)	1,4-Dichlorobenzene	11.04	146	444976	25.45	ug/L		95
62)	n-butylbenzene	11.19	91	847799	24.69	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	392002	25.40	ug/L		98
64)	Hexachloroethane	11.40	117	125027	20.45	ug/L	#	71
65)	1,2-dibromo-3-chloropropan	11.67	75	12761	24.33	ug/L		95
66)	1,2,4-trichlorobenzene	12.11	180	213000	23.83	ug/L		98
67)	hexachlorobutadiene	12.17	225	150586	24.34	ug/L	#	85
68)	naphthalene	12.26	128	273117	24.33	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	181441	24.19	ug/L	#	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL62.D Vial: 62
Acq On : 25 Jul 2017 4:06 am Operator: MGC
Sample : 1712906-CCV7 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 4:20 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL63.D Vial: 63
Acq On : 25 Jul 2017 4:29 am Operator: MGC
Sample : 1712906-CCV8 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:37 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	189099	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	283395	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74567	10.00	ug/L	0.00

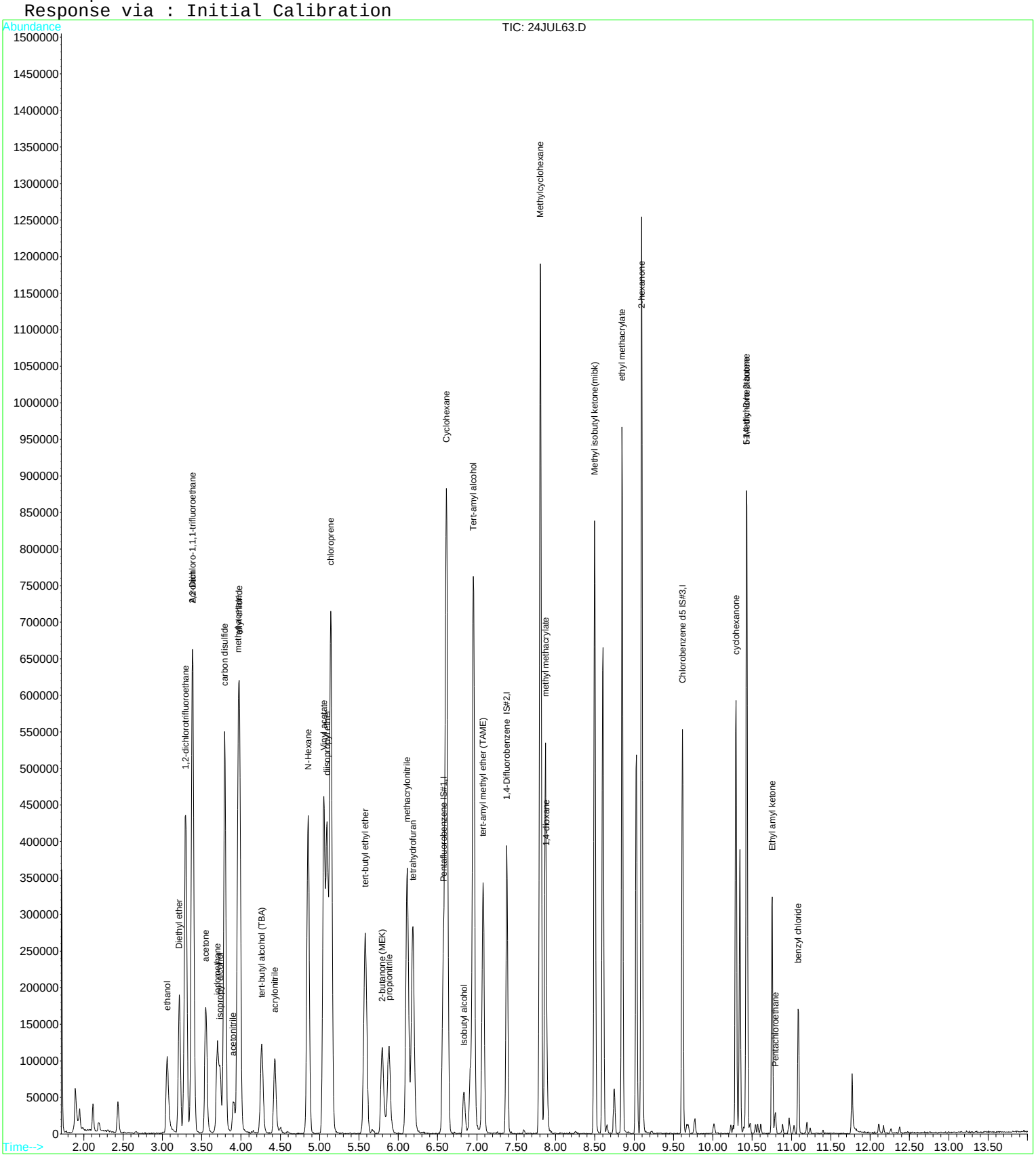
Target Compounds						Qvalue
2) ethanol	3.06	45	149231	4376.65	ug/L #	73
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	447246	24.94	ug/L #	88
4) 1,2-dichlorotrifluoroethan	3.30	67	298187	23.93	ug/L #	79
5) Diethyl ether	3.22	59	123701	26.16	ug/L	88
6) isopropyl alcohol	3.73	45	134780	857.54	ug/L #	73
7) Acrolein	3.38	56	88721	257.46	ug/L	90
8) acetone	3.55	43	248781	319.28	ug/L	99
9) tert-butyl alcohol (TBA)	4.26	59	175756	785.59	ug/L	100
10) acetonitrile	3.90	41	62657	168.85	ug/L	87
11) methyl acetate	3.96	43	588156	250.64	ug/L #	90
12) allyl chloride	3.98	41	558558	29.44	ug/L	99
13) iodomethane	3.70	142	161406	14.48	ug/L	100
14) acrylonitrile	4.43	53	100060	77.88	ug/L	89
15) carbon disulfide	3.79	76	855709	29.85	ug/L	100
16) N-Hexane	4.85	57	276414	22.74	ug/L	85
17) diisopropyl ether	5.09	87	102108	14.45	ug/L	95
18) Vinyl acetate	5.05	43	981976	88.97	ug/L	99
19) chloroprene	5.14	53	595818	29.88	ug/L	92
20) tert-butyl ethyl ether	5.58	59	346773	15.00	ug/L	99
21) 2-butanone (MEK)	5.80	43	211724	153.04	ug/L	92
22) propionitrile	5.88	54	183327	394.71	ug/L #	88
23) Isobutyl alcohol	6.83	43	48299	450.72	ug/L #	36
24) methacrylonitrile	6.11	67	191622	151.34	ug/L	98
25) Tert-amyl alcohol	6.95	59	514846	2839.20	ug/L	96
26) tetrahydrofuran	6.18	42	291359	313.79	ug/L	94
27) Cyclohexane	6.61	56	599234	24.21	ug/L #	76
28) tert-amyl methyl ether (TA	7.08	73	195889	15.40	ug/L	91
30) methyl methacrylate	7.87	69	169056	79.90	ug/L	97
31) Methylcyclohexane	7.80	55	445625	25.73	ug/L	95
32) 1,4-dioxane	7.89	88	53879	2091.10	ug/L	96
33) Methyl isobutyl ketone(mib	8.50	43	493966	155.79	ug/L	100
34) ethyl methacrylate	8.84	69	389522	80.47	ug/L	96
35) 2-hexanone	9.10	43	673227	313.43	ug/L	96
37) 5-Methyl-3-heptanone	10.43	43	182517	53.44	ug/L	89
38) cyclohexanone	10.29	55	231367	468.82	ug/L	100
39) t-1,4-dichloro-2-butene	10.42	75	51711	65.87	ug/L #	64
40) Ethyl amyl ketone	10.75	57	81909	27.75	ug/L #	75
41) Pentachloroethane	10.80	167	1796	0.60	ug/L	90
42) benzyl chloride	11.08	91	96318	20.33	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL63.D Vial: 63
Acq On : 25 Jul 2017 4:29 am Operator: MGC
Sample : 1712906-CCV8 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:37 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL28.D Vial: 28
Acq On : 25 Jul 2017 4:02 pm Operator: MGC
Sample : 1713088-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 16:16 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185391	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281755	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	74177	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.91	65	52394	9.68	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 96.80%							
31) Toluene d8 SMC#2	8.60	98	334319	9.61	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.10%							
49) Bromofluorobenzene SMC#3	10.34	95	107456	9.70	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.00%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	215575	23.37	ug/L		94
3) Chloromethane	1.95	50	311938	17.89	ug/L		97
4) Vinyl chloride	2.07	62	310725	22.36	ug/L	#	66
5) Bromomethane	2.44	94	121601	16.13	ug/L		89
6) Chloroethane	2.57	64	215003	22.54	ug/L		100
7) Trichlorofluoromethane	2.87	101	270063	23.65	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	195483	24.94	ug/L	#	84
9) 1,1-Dichloroethene	3.51	61	354258	23.68	ug/L		95
10) Methylene chloride	4.15	84	190805	23.85	ug/L		96
11) MTBE	4.48	73	266102	23.77	ug/L	#	77
12) T-1,2-dichloroethene	4.50	96	217818	23.45	ug/L		94
13) 1,1-Dichloroethane	5.05	63	472616	23.82	ug/L		99
14) 2,2-Dichloropropane	5.83	77	271785	24.34	ug/L		92
15) Cis-1,2-dichloroethene	5.82	96	227335	23.48	ug/L		96
16) Bromochloromethane	6.18	128	75045	24.32	ug/L	#	87
17) Chloroform	6.32	83	328261	23.39	ug/L		96
18) 1,1,1-Trichloroethane	6.53	97	287642	23.67	ug/L	#	72
19) 1,1-Dichloropropene	6.72	75	302277	23.82	ug/L		94
20) Carbon tetrachloride	6.72	119	200641	24.09	ug/L		92
22) 1,2-Dichloroethane	7.00	62	180166	23.89	ug/L	#	87
23) Benzene	6.94	78	897731	23.65	ug/L	#	7
25) Trichloroethene	7.60	130	239951	24.80	ug/L		88
26) 1,2-Dichloropropane	7.83	63	259391	24.27	ug/L		94
27) Dibromomethane	7.90	93	65767	24.37	ug/L		96
28) Bromodichloromethane	8.05	83	199987	24.66	ug/L		91
29) 2-ceve	8.27	63	261454	94.70	ug/L	#	76
30) Cis-1,3-dichloropropene	8.40	75	258234	25.50	ug/L		96
32) Toluene	8.65	92	603344	24.72	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	167759	25.38	ug/L	#	82
34) 1,1,2-Trichloroethane	8.97	97	104868	23.91	ug/L		86
35) Tetrachloroethene (PCE)	9.03	166	230189	24.83	ug/L		95
36) 1,3-Dichloropropane	9.08	76	174841	24.54	ug/L		91
37) Dibromochloromethane	9.23	129	111228	26.24	ug/L	#	96
38) 1,2-Dibromoethane	9.32	107	89252	24.48	ug/L		94
40) Chlorobenzene	9.63	112	596684	24.26	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	161470	26.68	ug/L		97
42) Ethylbenzene	9.69	106	362339	25.07	ug/L		81
43) P+m-Xylene	9.77	106	868893	49.15	ug/L		99
44) O-Xylene	10.01	106	407998	24.97	ug/L		90
45) Styrene	10.02	104	629730	25.29	ug/L		92
46) Bromoform	10.15	173	47351	26.01	ug/L	#	100
47) Isopropylbenzene	10.23	105	1064621	25.18	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.41	83	103597	25.69	ug/L		96
50) 1,2,3-Trichloropropane	10.45	110	23253	27.12	ug/L	#	19
51) n-propylbenzene	10.48	91	1308312	23.82	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL28.D Vial: 28
Acq On : 25 Jul 2017 4:02 pm Operator: MGC
Sample : 1713088-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 16:16 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

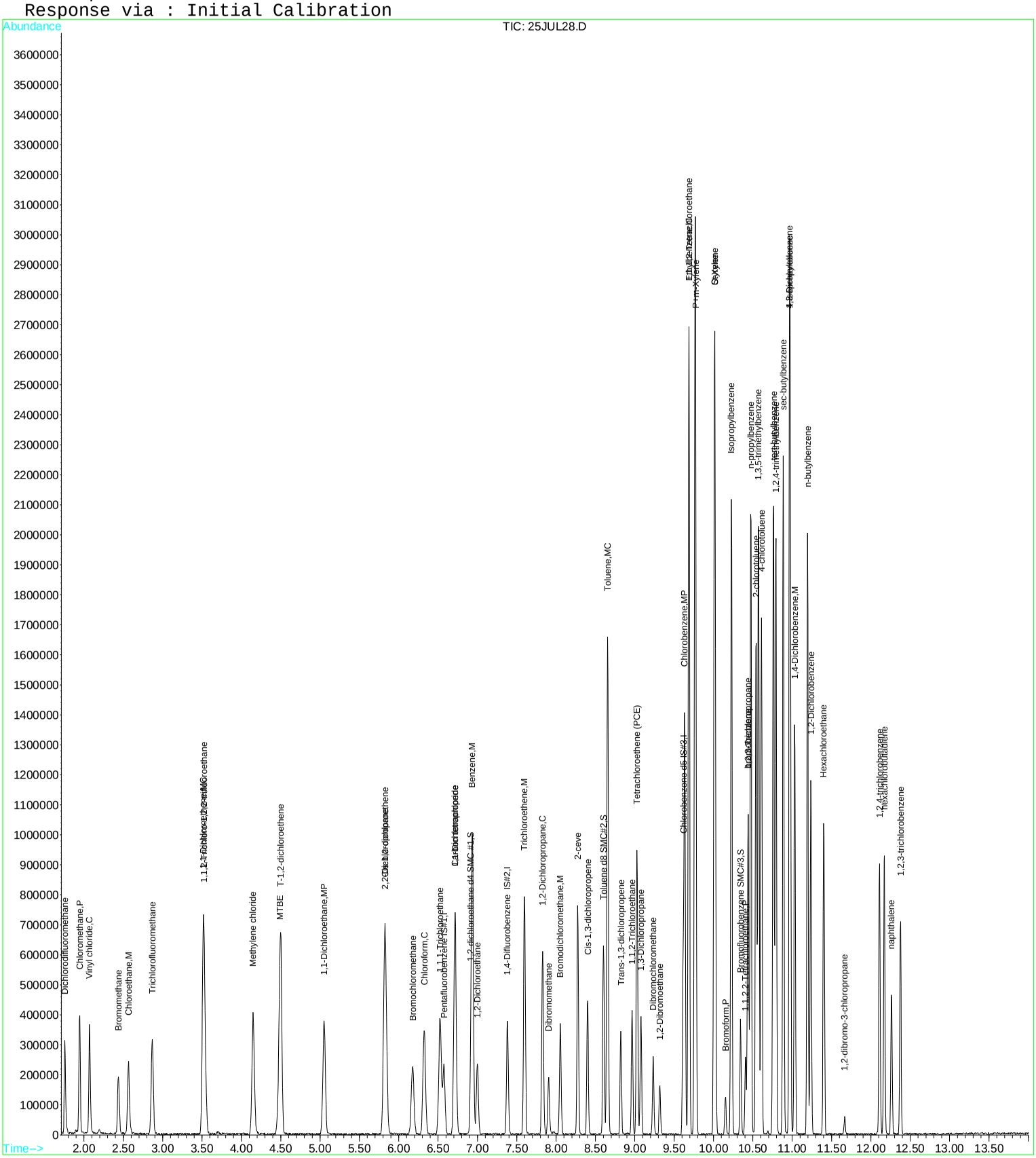
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52) bromobenzene	10.44	156	214160	24.72	ug/L		90
53) 1,3,5-trimethylbenzene	10.57	105	882937	25.23	ug/L		93
54) 2-chlorotoluene	10.54	91	850610	24.52	ug/L		99
55) 4-chlorotoluene	10.61	91	781154	24.93	ug/L		97
56) tert-butylbenzene	10.76	119	831455	24.05	ug/L		97
57) 1,2,4-trimethylbenzene	10.79	105	848481	24.48	ug/L		95
58) sec-butylbenzene	10.89	105	1190097	25.41	ug/L		100
59) 4-isopropyltoluene	10.96	119	953242	24.96	ug/L		97
60) 1,3-Dichlorobenzene	10.97	146	471946	25.45	ug/L		93
61) 1,4-Dichlorobenzene	11.03	146	463384	25.57	ug/L		95
62) n-butylbenzene	11.19	91	863306	24.25	ug/L		99
63) 1,2-Dichlorobenzene	11.24	146	400716	25.05	ug/L		95
64) Hexachloroethane	11.40	117	139864	21.93	ug/L	#	70
65) 1,2-dibromo-3-chloropropan	11.67	75	13760	25.31	ug/L		93
66) 1,2,4-trichlorobenzene	12.11	180	224598	24.24	ug/L		99
67) hexachlorobutadiene	12.17	225	156170	24.35	ug/L	#	84
68) naphthalene	12.26	128	286239	24.59	ug/L		100
69) 1,2,3-trichlorobenzene	12.38	180	184643	23.75	ug/L	#	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL28.D Vial: 28
Acq On : 25 Jul 2017 4:02 pm Operator: MGC
Sample : 1713088-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 16:16 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL29.D Vial: 29
Acq On : 25 Jul 2017 4:25 pm Operator: MGC
Sample : 1713088-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:24 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	183539	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	282647	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	71623	10.00	ug/L	0.00

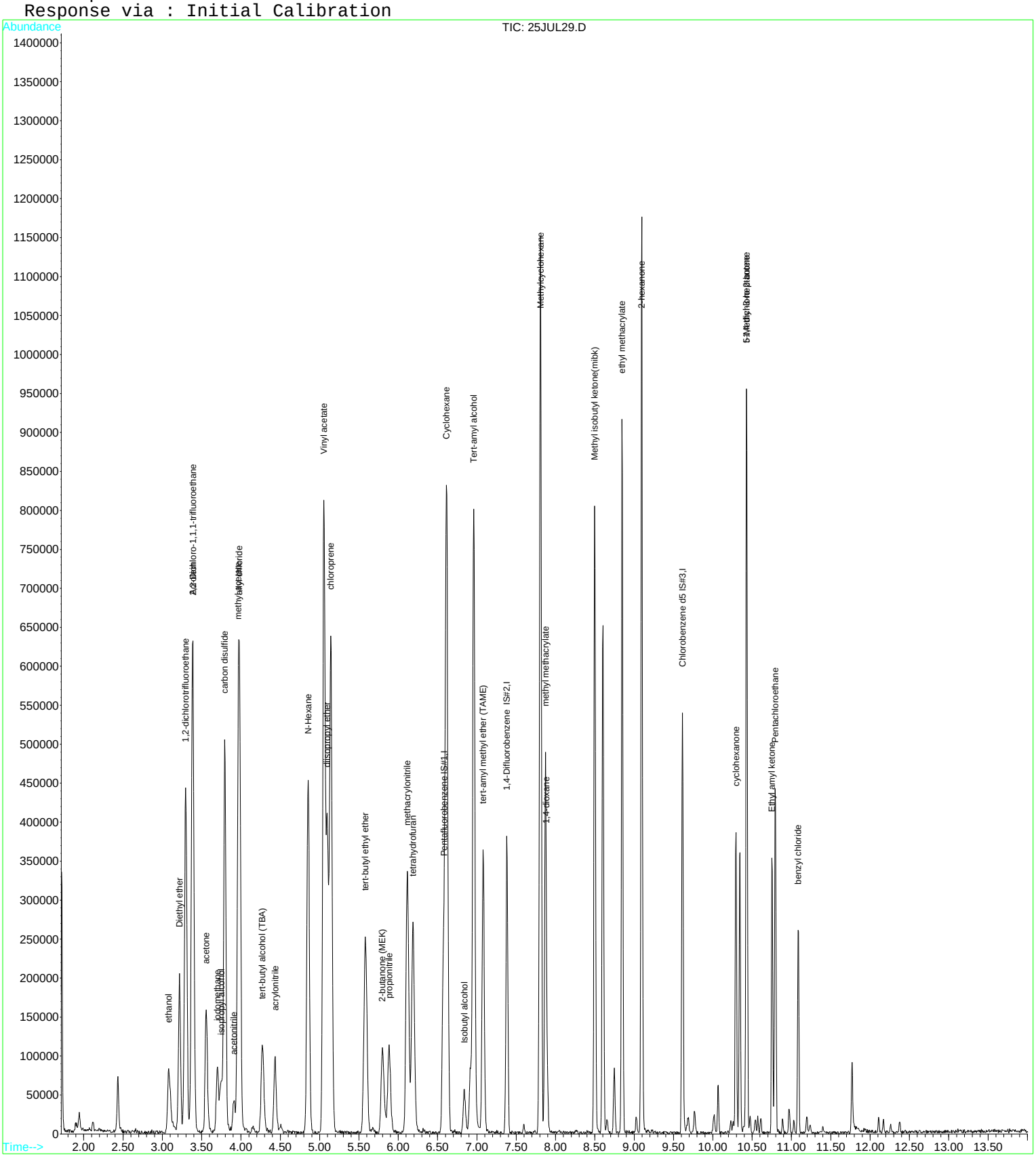
Target Compounds						Qvalue
2) ethanol	3.08	45	132800	4012.74	ug/L #	74
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	422951	24.30	ug/L #	87
4) 1,2-dichlorotrifluoroethan	3.30	67	296515	24.52	ug/L #	80
5) Diethyl ether	3.22	59	123811	26.98	ug/L	87
6) isopropyl alcohol	3.75	45	120793	791.83	ug/L #	1
7) Acrolein	3.39	56	83961	251.03	ug/L	87
8) acetone	3.56	43	224457	296.79	ug/L	100
9) tert-butyl alcohol (TBA)	4.28	59	169030	778.41	ug/L	100
10) acetonitrile	3.91	41	58951	163.67	ug/L	100
11) methyl acetate	3.96	43	601434	264.06	ug/L #	90
12) allyl chloride	3.98	41	519271	28.20	ug/L	96
13) iodomethane	3.70	142	114117	10.55	ug/L	95
14) acrylonitrile	4.43	53	91901	73.70	ug/L	88
15) carbon disulfide	3.79	76	778964	27.99	ug/L	99
16) N-Hexane	4.85	57	287973	24.41	ug/L	87
17) diisopropyl ether	5.09	87	100026	14.58	ug/L	87
18) Vinyl acetate	5.05	43	1586649	148.12	ug/L	97
19) chloroprene	5.14	53	533720	27.58	ug/L	93
20) tert-butyl ethyl ether	5.58	59	322195	14.36	ug/L	99
21) 2-butanone (MEK)	5.80	43	194107	144.55	ug/L	89
22) propionitrile	5.88	54	168383	373.52	ug/L #	89
23) Isobutyl alcohol	6.84	43	45008	432.73	ug/L #	33
24) methacrylonitrile	6.12	67	182408	148.43	ug/L	98
25) Tert-amyl alcohol	6.96	59	540906	3073.27	ug/L	94
26) tetrahydrofuran	6.19	42	268831	298.30	ug/L	91
27) Cyclohexane	6.61	56	573437	23.87	ug/L #	77
28) tert-amyl methyl ether (TA	7.08	73	183529	14.86	ug/L	92
30) methyl methacrylate	7.87	69	165637	78.49	ug/L	99
31) Methylcyclohexane	7.81	55	419089	24.26	ug/L	93
32) 1,4-dioxane	7.89	88	49603	1930.24	ug/L	92
33) Methyl isobutyl ketone(mib	8.50	43	464412	146.86	ug/L	99
34) ethyl methacrylate	8.85	69	377212	78.14	ug/L	97
35) 2-hexanone	9.10	43	623379	290.99	ug/L	95
37) 5-Methyl-3-heptanone	10.43	43	176283	53.73	ug/L	91
38) cyclohexanone	10.30	55	150235	316.93	ug/L	97
39) t-1,4-dichloro-2-butene	10.42	75	65620	87.02	ug/L #	61
40) Ethyl amyl ketone	10.75	57	84561	29.83	ug/L #	78
41) Pentachloroethane	10.80	167	55893	19.51	ug/L	97
42) benzyl chloride	11.08	91	148108	30.92	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL29.D Vial: 29
Acq On : 25 Jul 2017 4:25 pm Operator: MGC
Sample : 1713088-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:24 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:44 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191728	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291569	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74667	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50970	9.10	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 91.00%			
31) Toluene d8 SMC#2	8.61	98	348946	9.69	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.90%			
49) Bromofluorobenzene SMC#3	10.34	95	108634	9.74	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.40%			

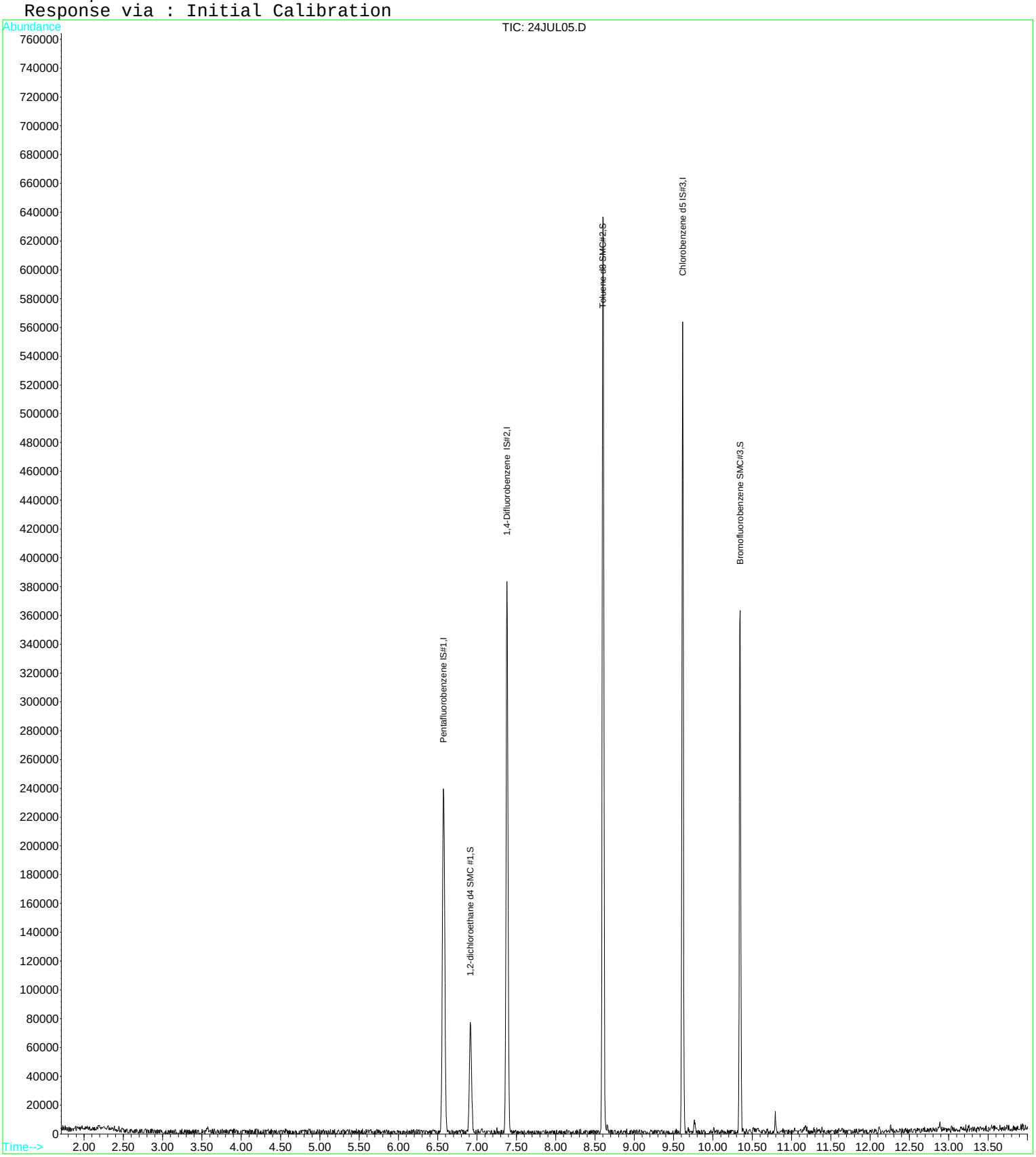
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:44 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:44 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191728	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	291569	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74667	10.00	ug/L	0.00

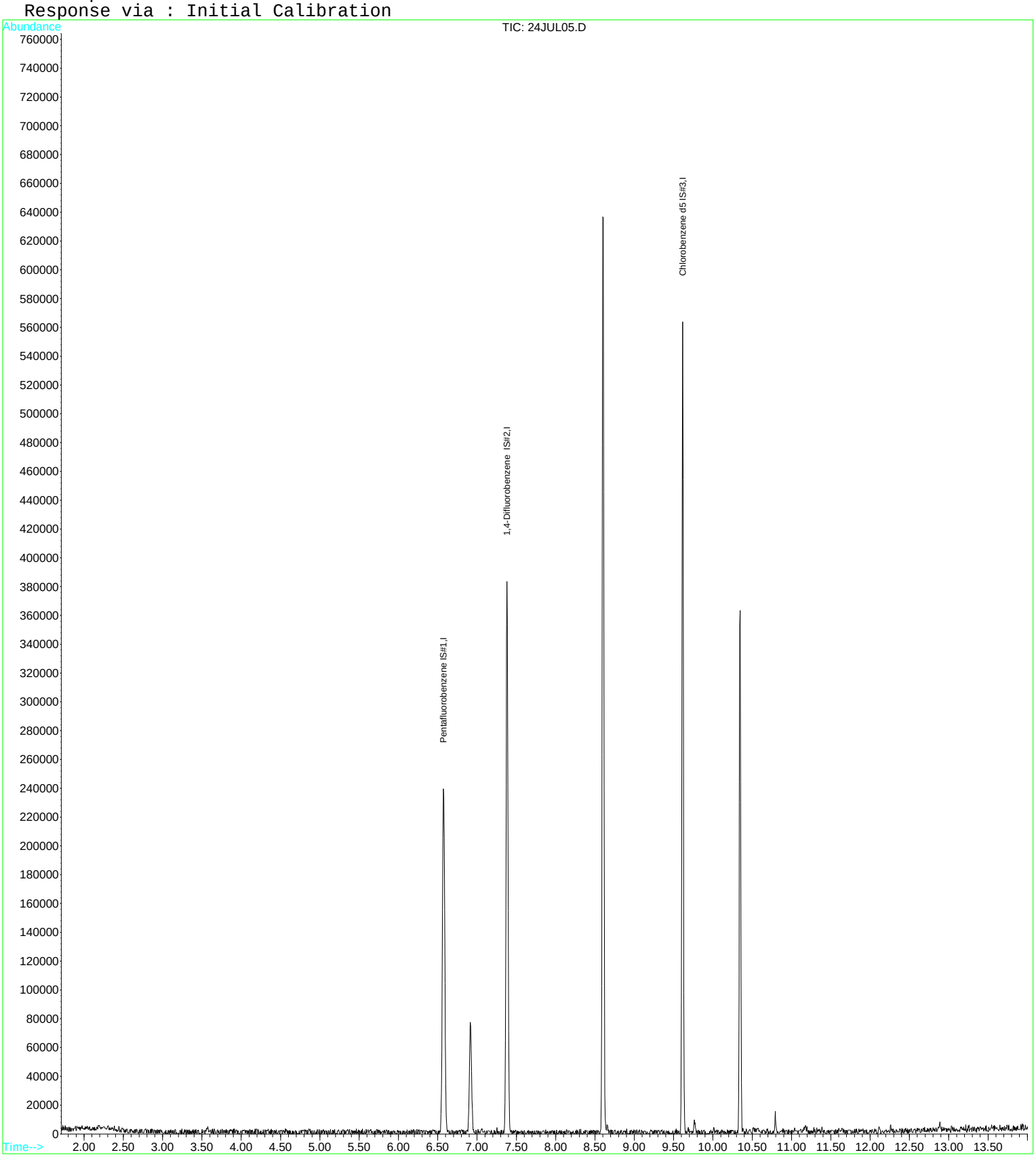
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:44 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:45 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191728	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	503000m	4.10	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	157839m	2.20	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	654561m	4.98	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	929279m	7.64	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	697431m	7.96	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	458363m	8.35	ug/L	0.00

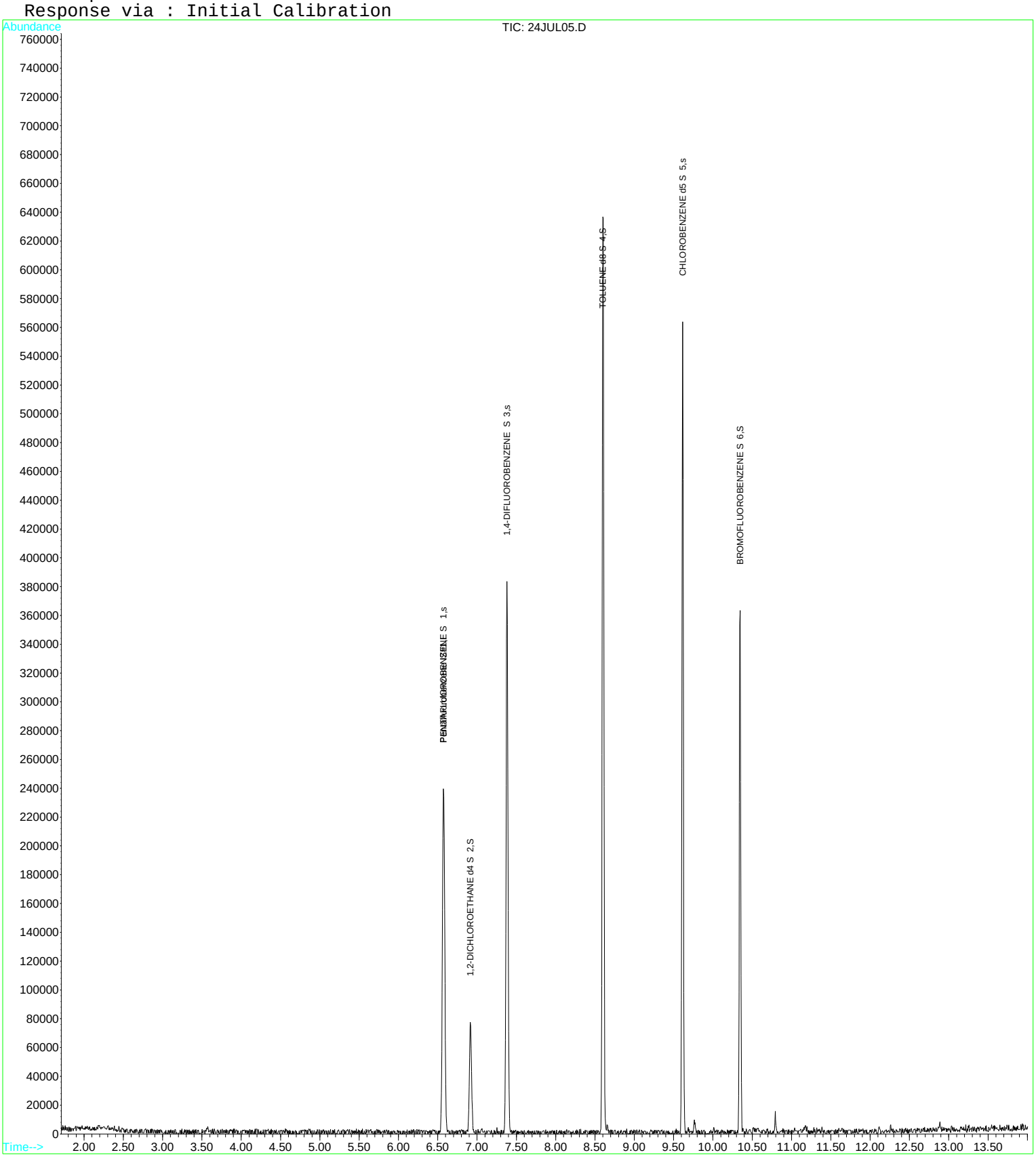
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL05.D Vial: 5
Acq On : 24 Jul 2017 5:49 am Operator: MGC
Sample : 1712906-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 9:45 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	192938	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	290446	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	76046	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50581	8.98	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 89.80%			
31) Toluene d8 SMC#2	8.61	98	351938	9.81	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.10%			
49) Bromofluorobenzene SMC#3	10.34	95	114361	10.07	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.70%			

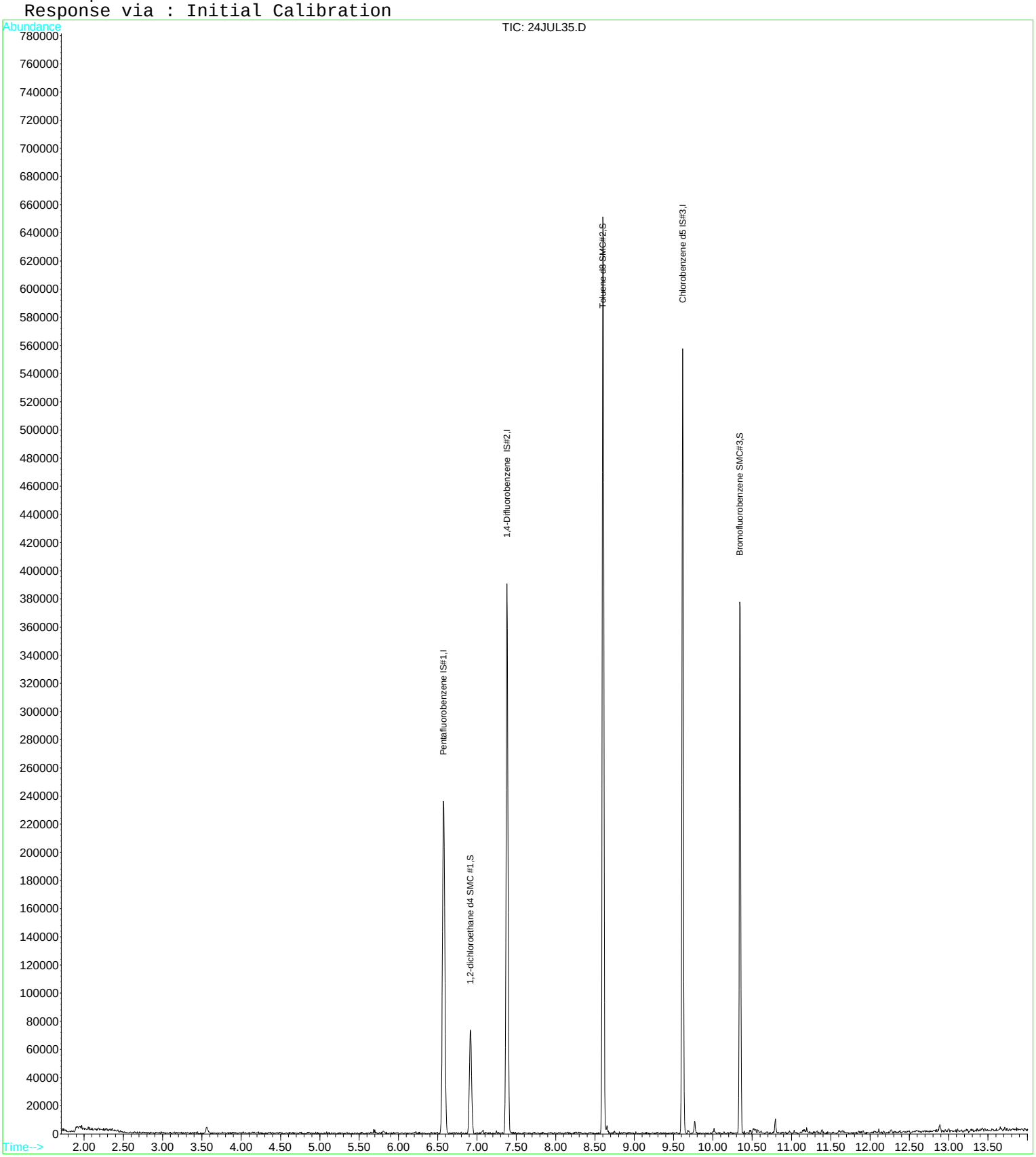
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	192938	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	290446	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	76046	10.00	ug/L	0.00

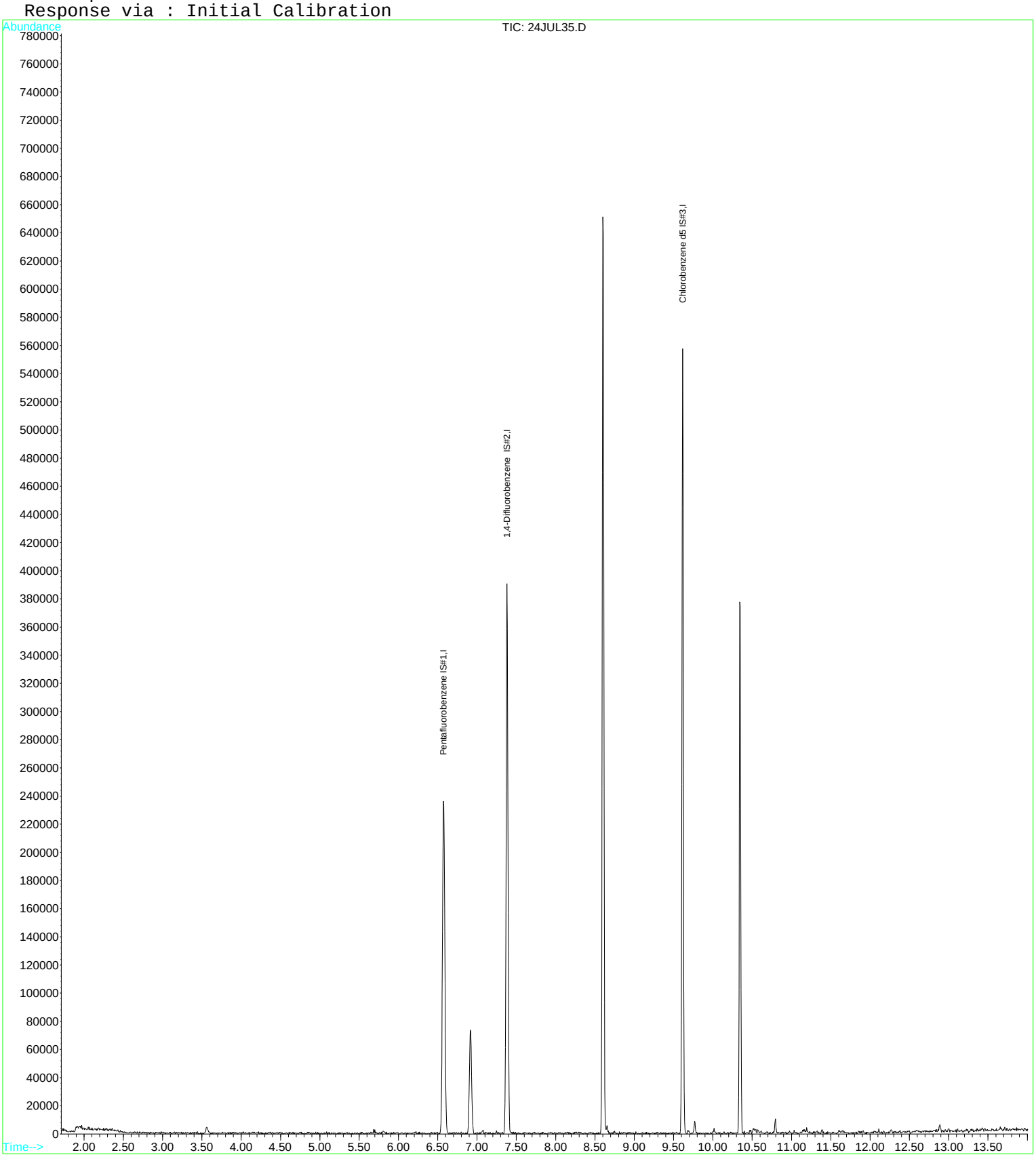
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:40 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:41 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	192938	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	492735m	3.99	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	149120m	2.07	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	646092m	4.88	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	921473m	7.53	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	689305m	7.81	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	467219m	8.46	ug/L	0.00

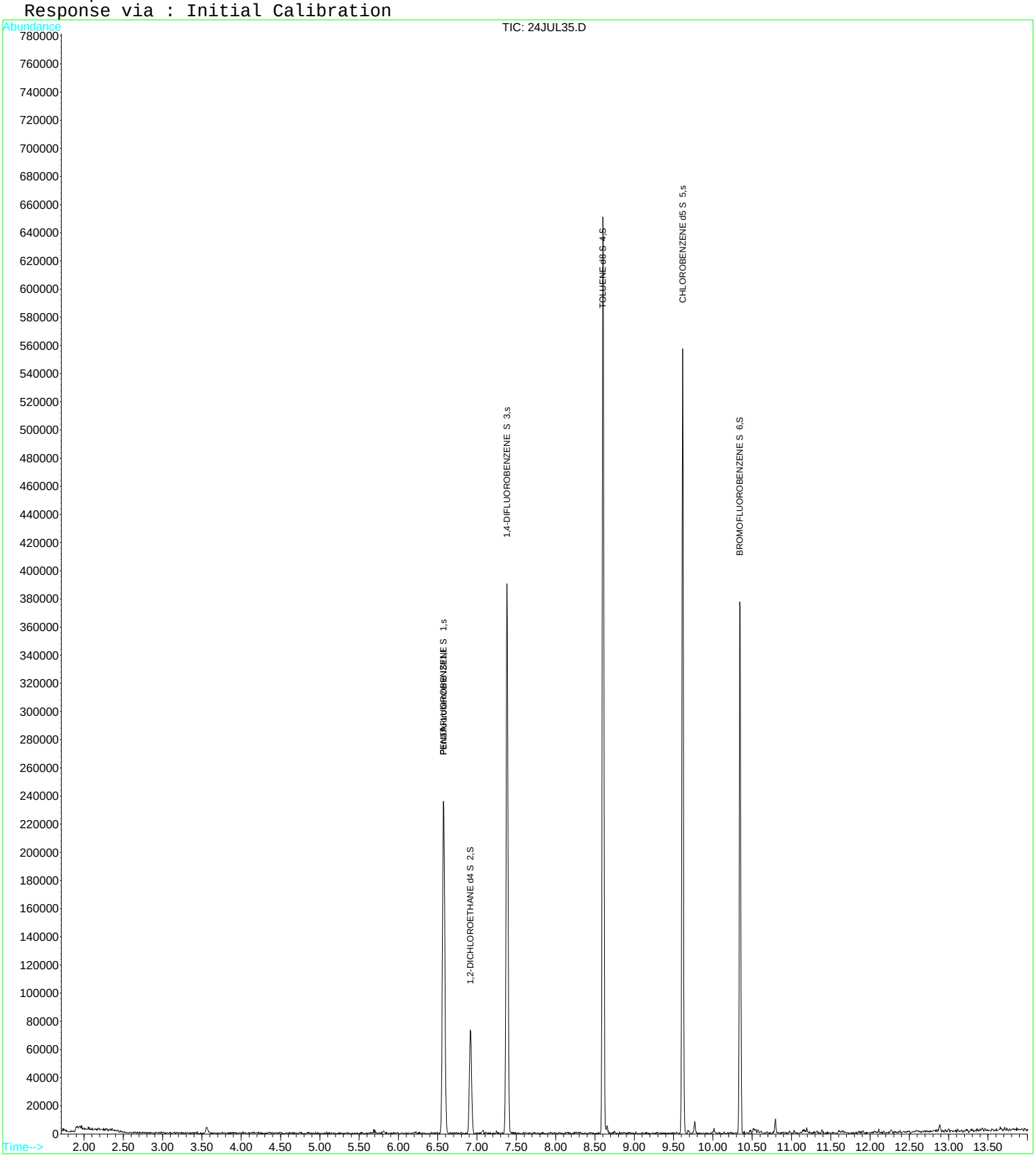
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL35.D Vial: 35
Acq On : 24 Jul 2017 5:44 pm Operator: MGC
Sample : 1712906-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 11:41 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187880	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	284268	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74687	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50669	9.23	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 92.30%			
31) Toluene d8 SMC#2	8.60	98	347630	9.90	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.00%			
49) Bromofluorobenzene SMC#3	10.34	95	109422	9.81	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.10%			

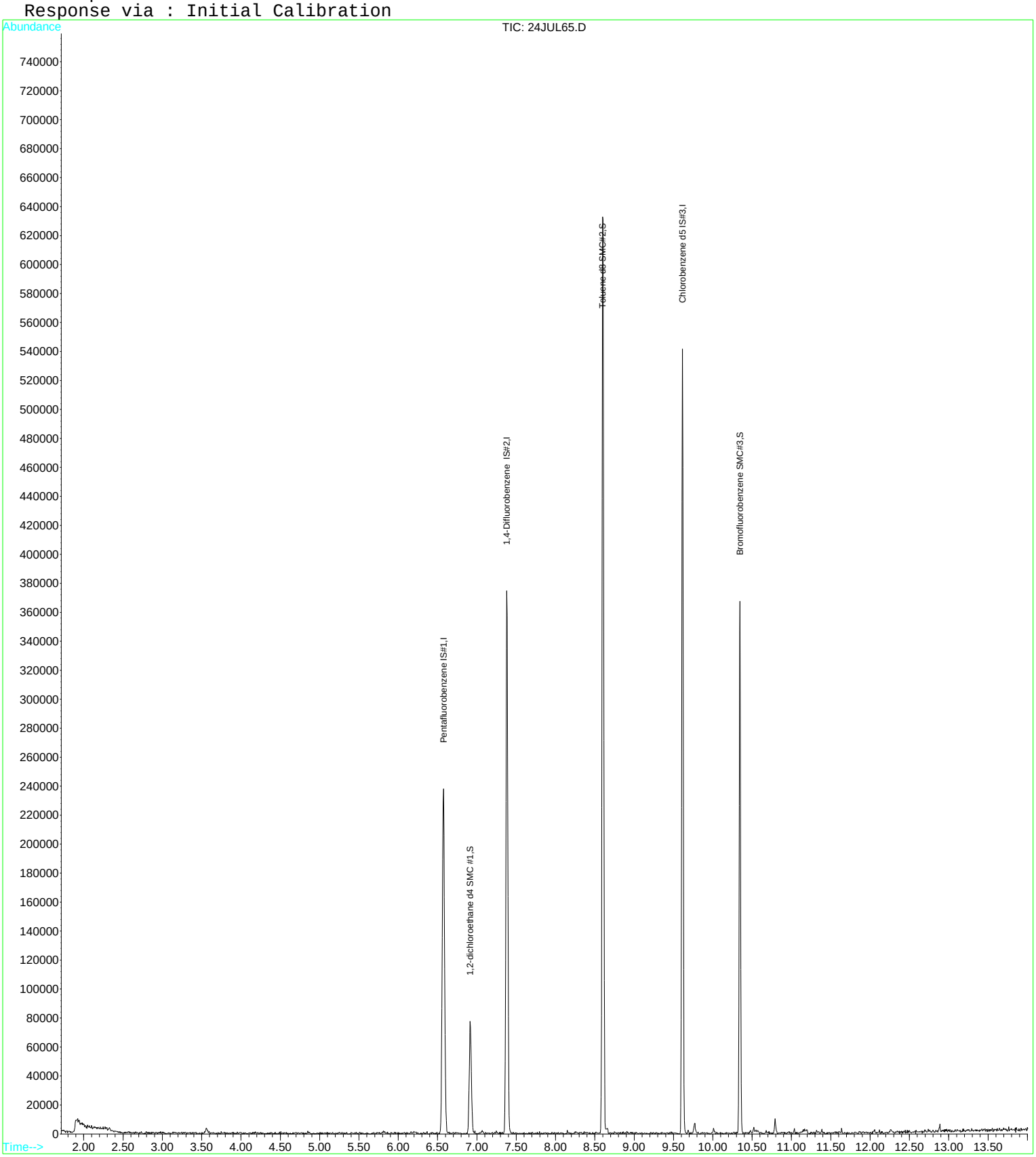
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187880	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	284268	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74687	10.00	ug/L	0.00

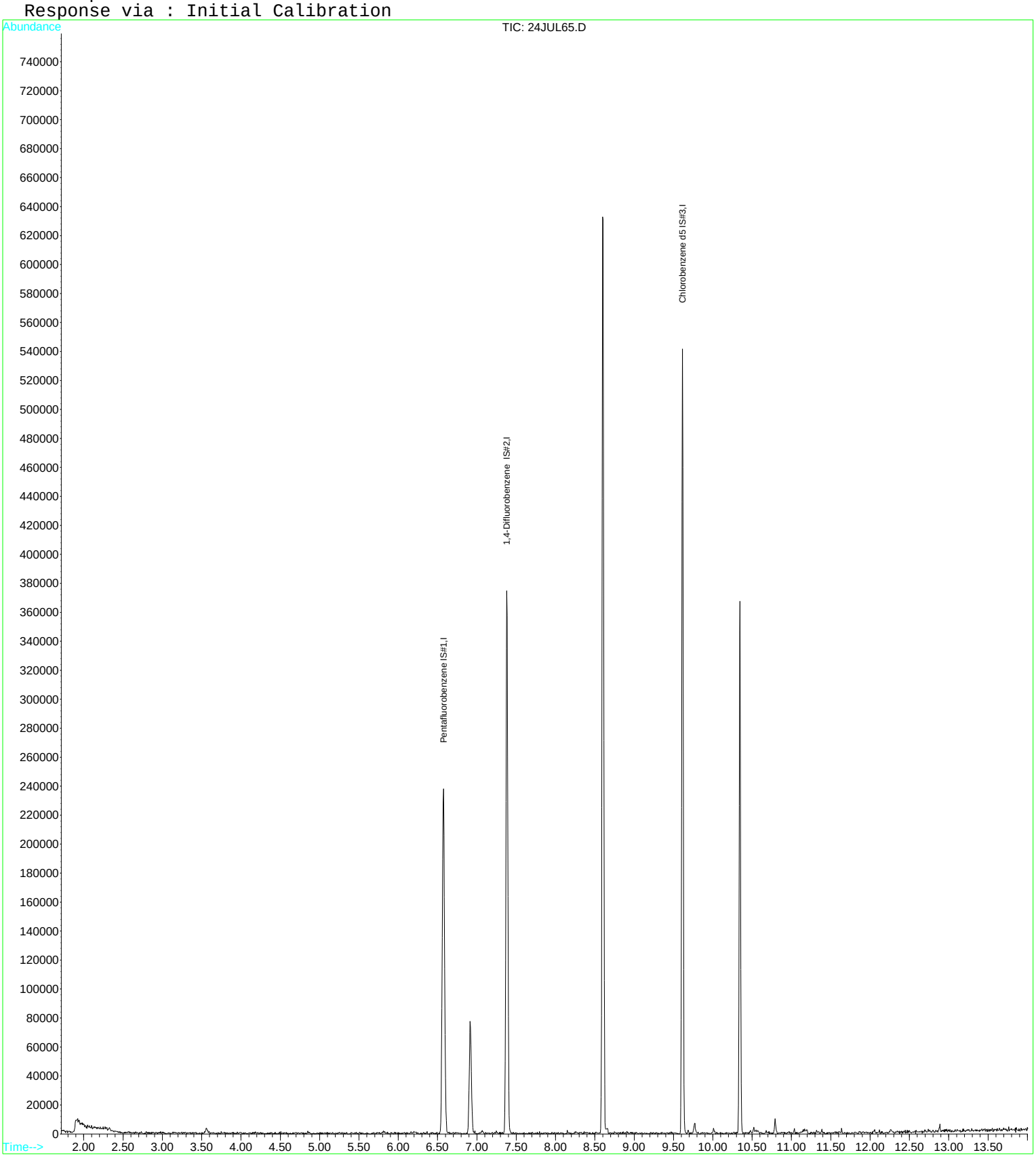
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:39 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:40 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187880	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.58	TIC	492121m	4.09	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	149783m	2.13	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	631977m	4.91	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	912483m	7.65	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	677770m	7.89	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	455949m	8.48	ug/L	0.00

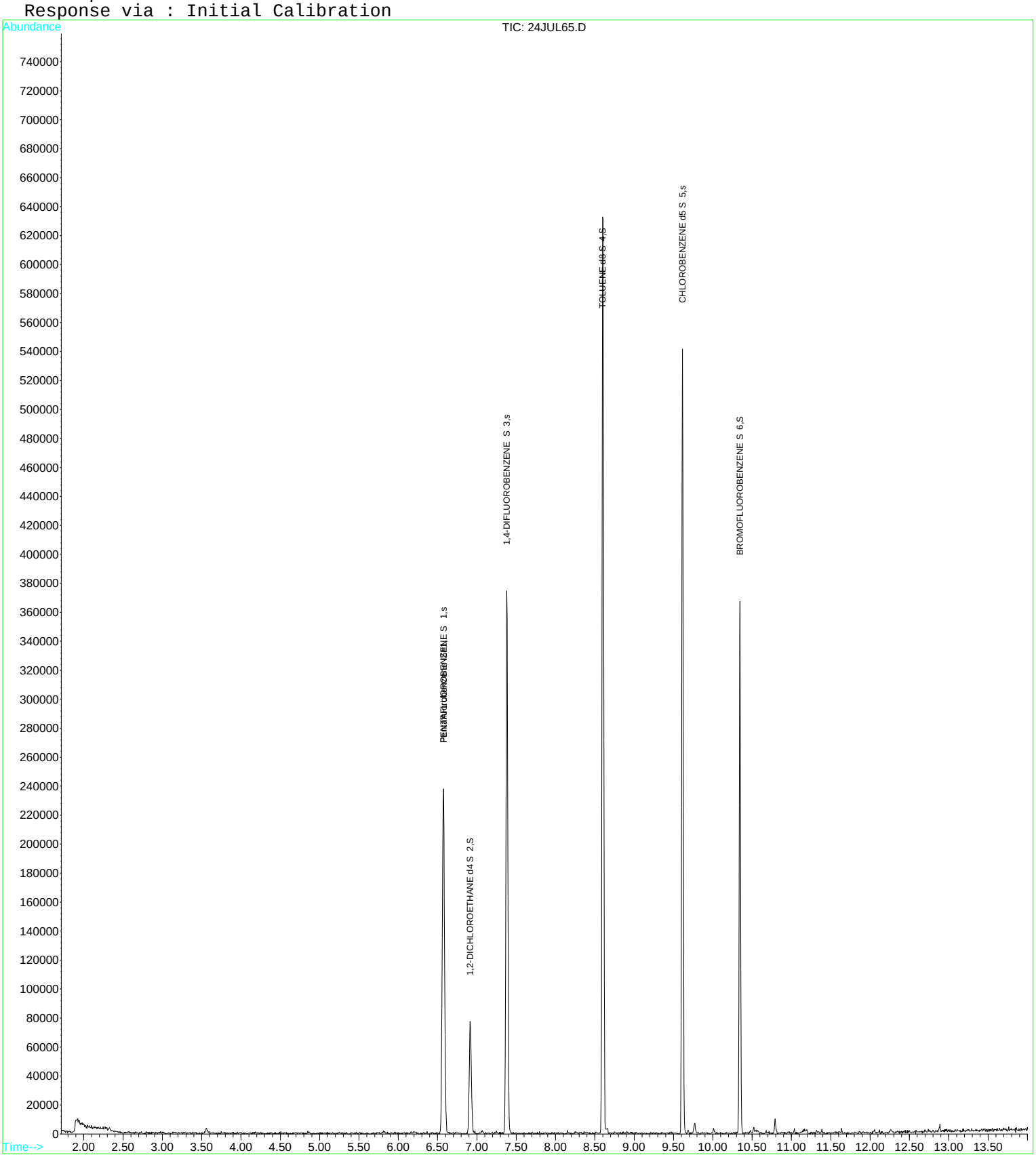
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL65.D Vial: 65
Acq On : 25 Jul 2017 5:15 am Operator: MGC
Sample : 1712906-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:40 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	188077	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	290748	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	77709	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	51436	9.36	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 93.60%			
31) Toluene d8 SMC#2	8.60	98	349218	9.73	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.30%			
49) Bromofluorobenzene SMC#3	10.34	95	112112	9.66	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.60%			

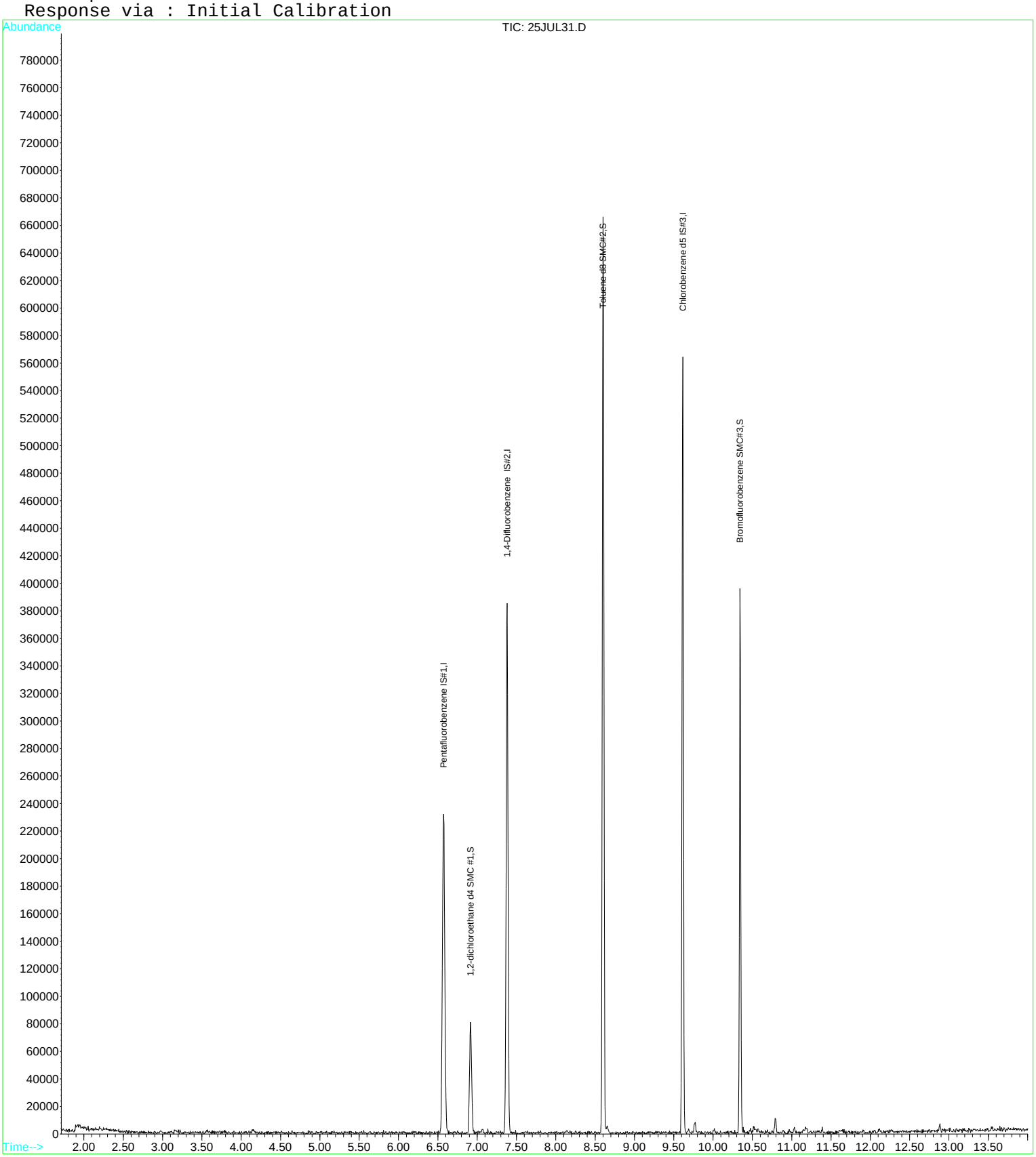
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	188077	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	290748	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	77709	10.00	ug/L	0.00

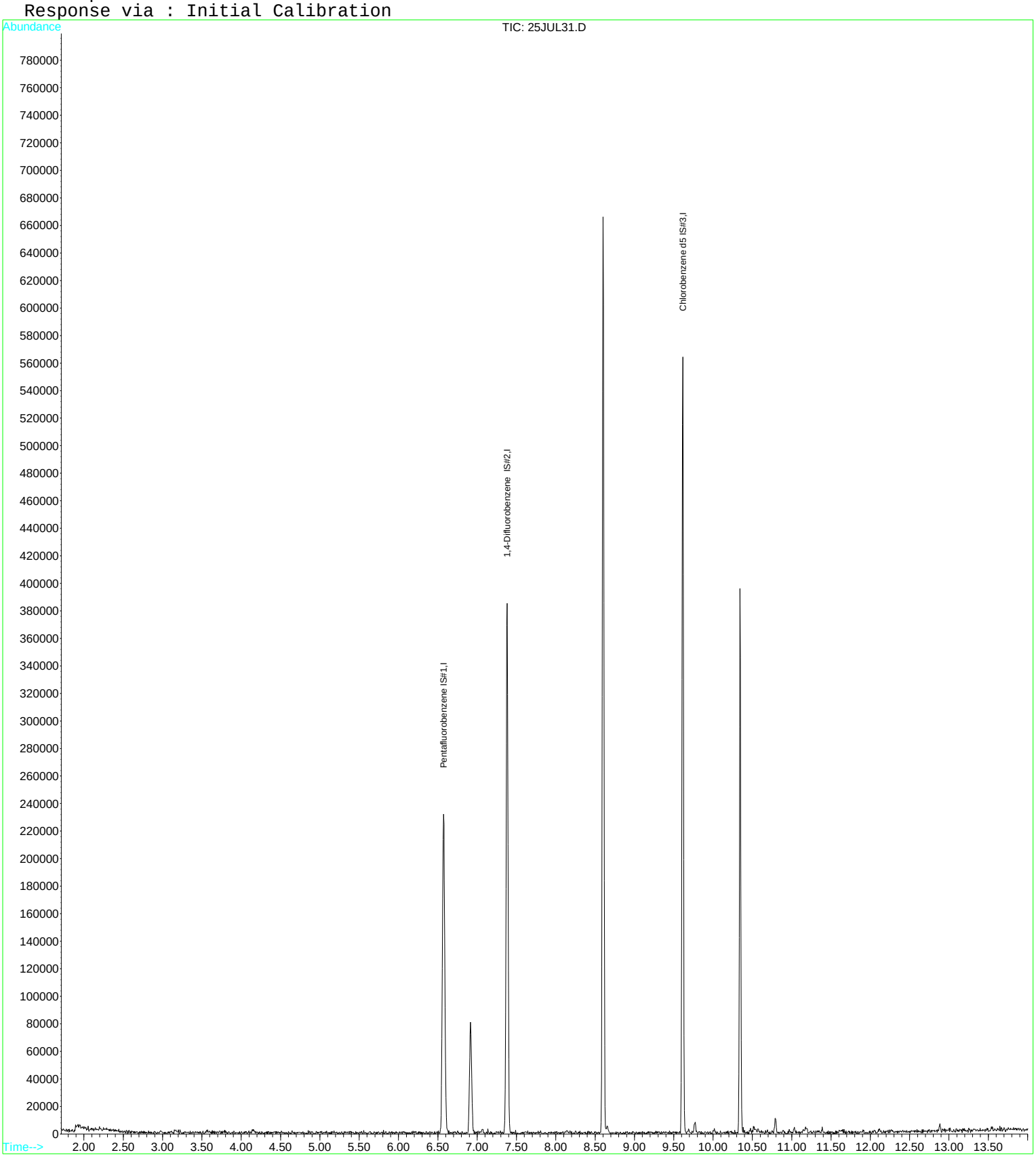
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:27 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	188077	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	499062m	4.14	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	157373m	2.24	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	646033m	5.01	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	921793m	7.72	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	709433m	8.25	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	468520m	8.70	ug/L	0.00

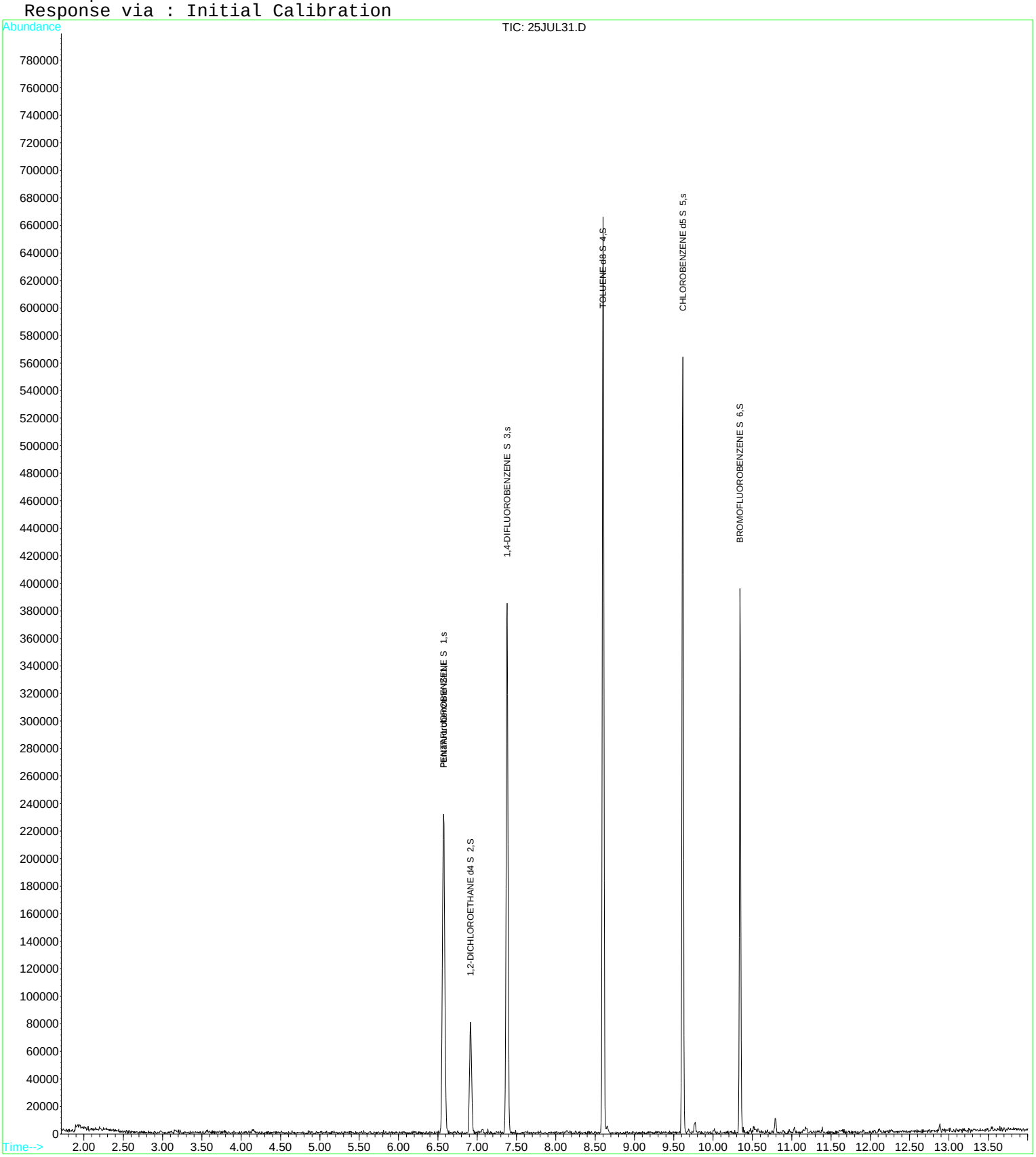
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:27 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Raw Data - Tune

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL02.D Vial: 2
Acq On : 20 Jul 2017 8:09 am Operator: MGC
Sample : 1712752-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	52073	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	84177	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	24018	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	15808	10.14	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.40%			
31) Toluene d8 SMC#2	8.60	98	102649	9.85	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.50%			
49) Bromofluorobenzene SMC#3	10.34	95	29842	8.39	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 83.90%			

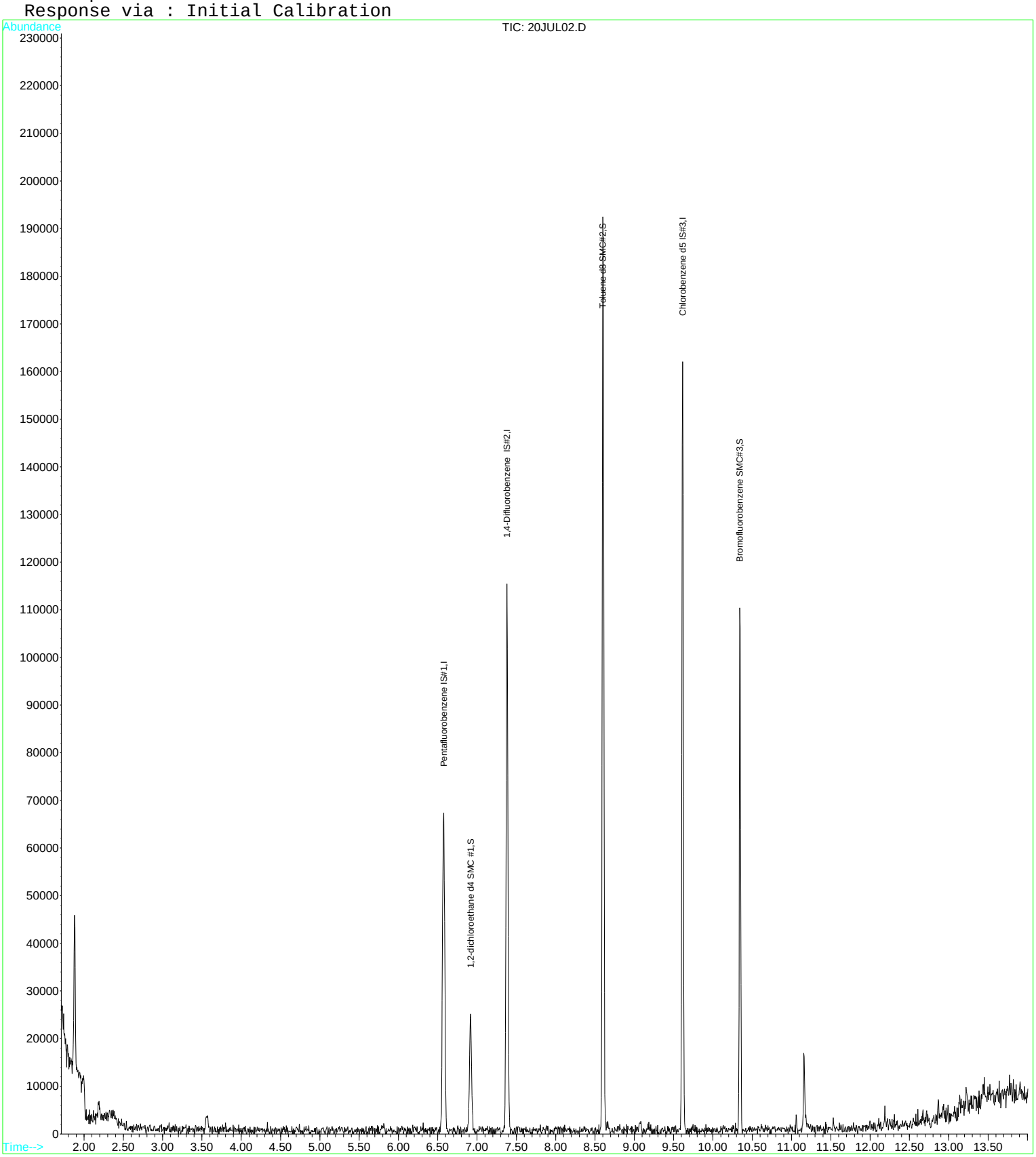
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL02.D Vial: 2
Acq On : 20 Jul 2017 8:09 am Operator: MGC
Sample : 1712752-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL49.D Vial: 49
Acq On : 17 Jul 2017 11:37 pm Operator: MGC
Sample : 1712538-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:07 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	46206	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	85071	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	22393	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	17323	12.52	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 125.20%#			
31) Toluene d8 SMC#2	8.60	98	103755	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			
49) Bromofluorobenzene SMC#3	10.35	95	31164	9.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.00%			

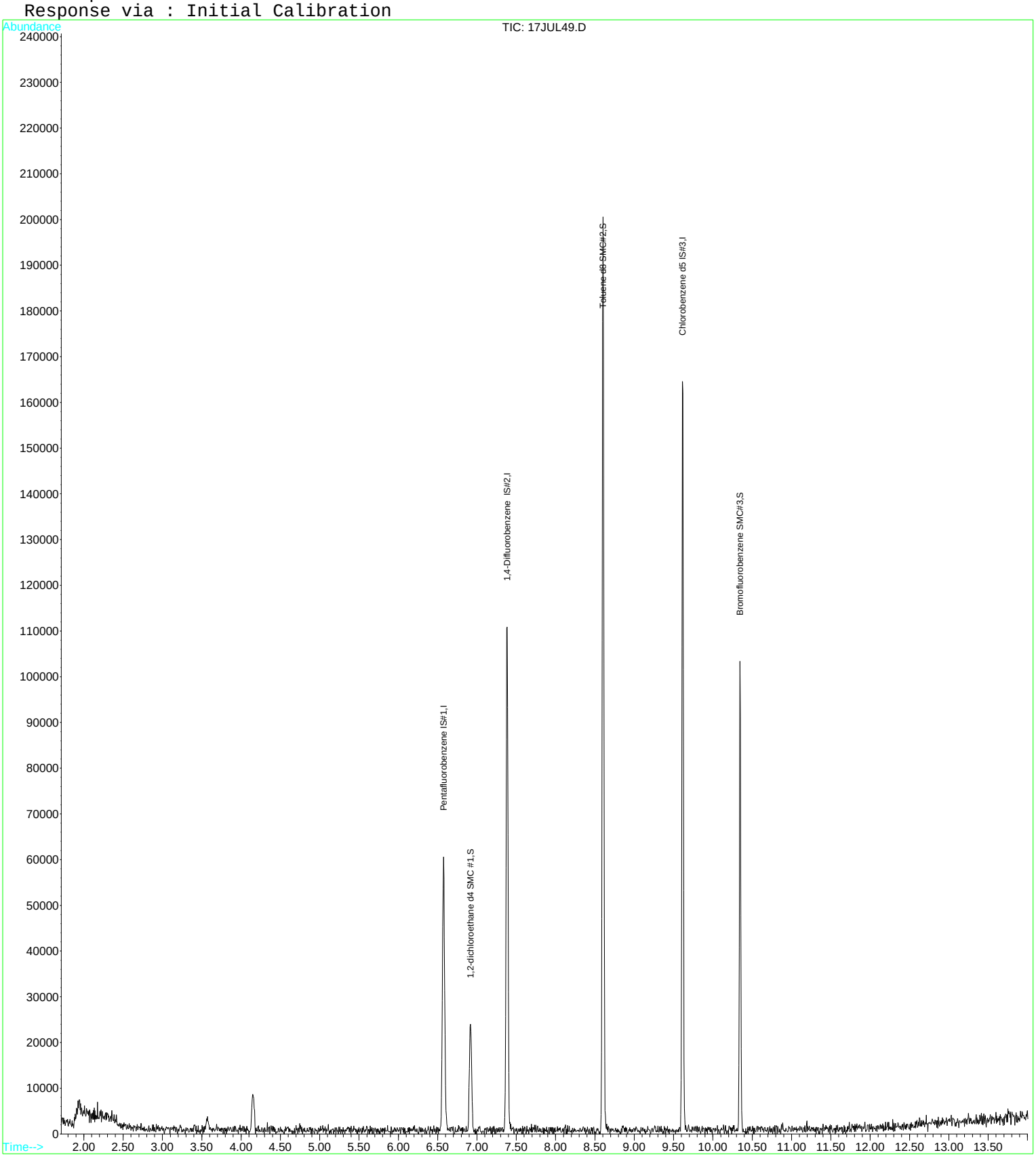
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL49.D Vial: 49
Acq On : 17 Jul 2017 11:37 pm Operator: MGC
Sample : 1712538-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:07 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL01.D Vial: 1
Acq On : 24 Jul 2017 4:17 am Operator: MGC
Sample : 1712906-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 4:32 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	61427	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	97683	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	23504	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	16189	9.02	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 90.20%			
31) Toluene d8 SMC#2	8.60	98	119827	9.93	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
49) Bromofluorobenzene SMC#3	10.35	95	34469	9.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%			

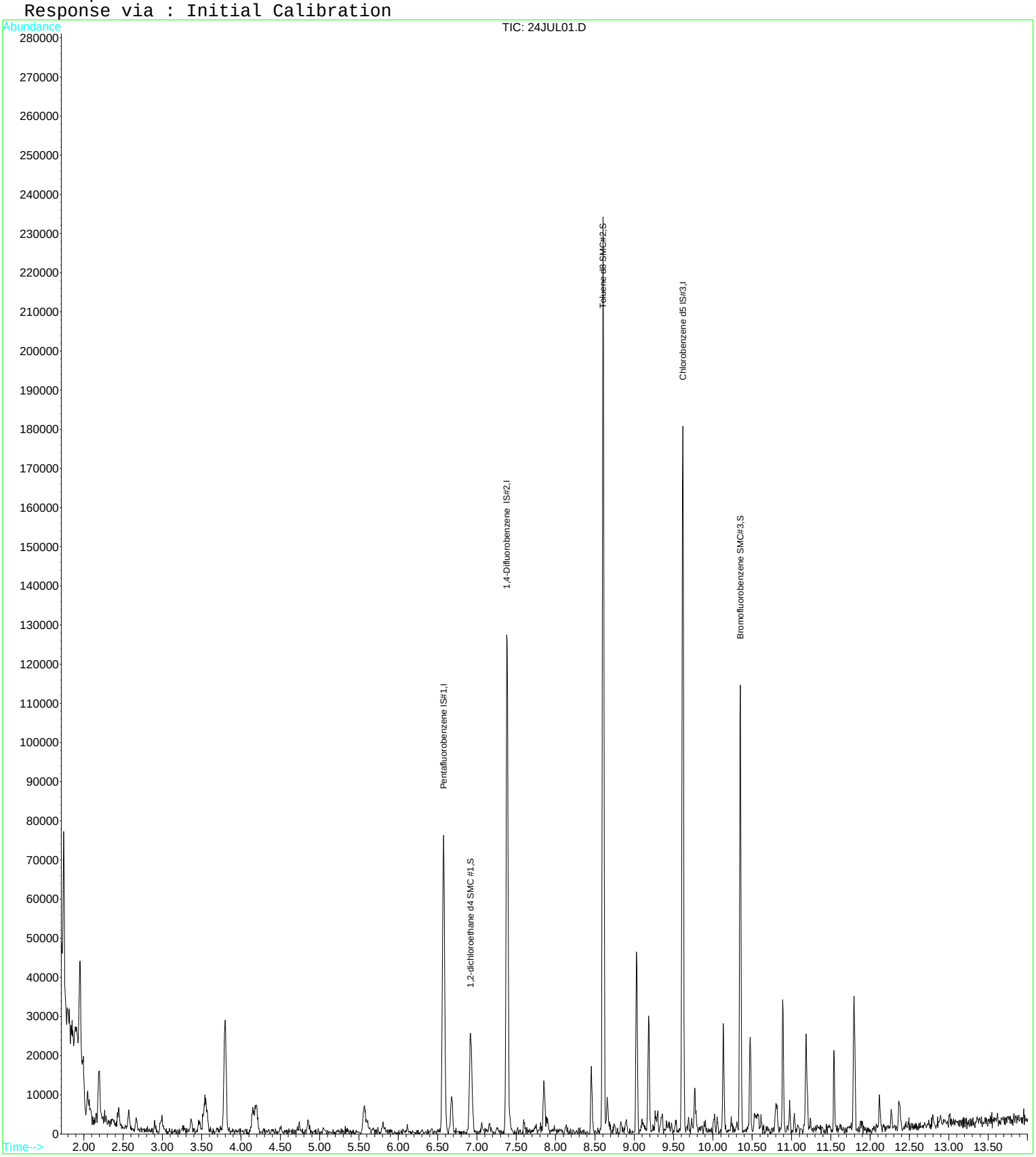
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL01.D Vial: 1
Acq On : 24 Jul 2017 4:17 am Operator: MGC
Sample : 1712906-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 4:32 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL31.D Vial: 31
Acq On : 24 Jul 2017 4:12 pm Operator: MGC
Sample : 1712906-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:23 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	47373	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	85427	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	23149	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	15919	11.51	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 115.10%			
31) Toluene d8 SMC#2	8.60	98	105387	9.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.90%			
49) Bromofluorobenzene SMC#3	10.34	95	33301	9.63	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.30%			

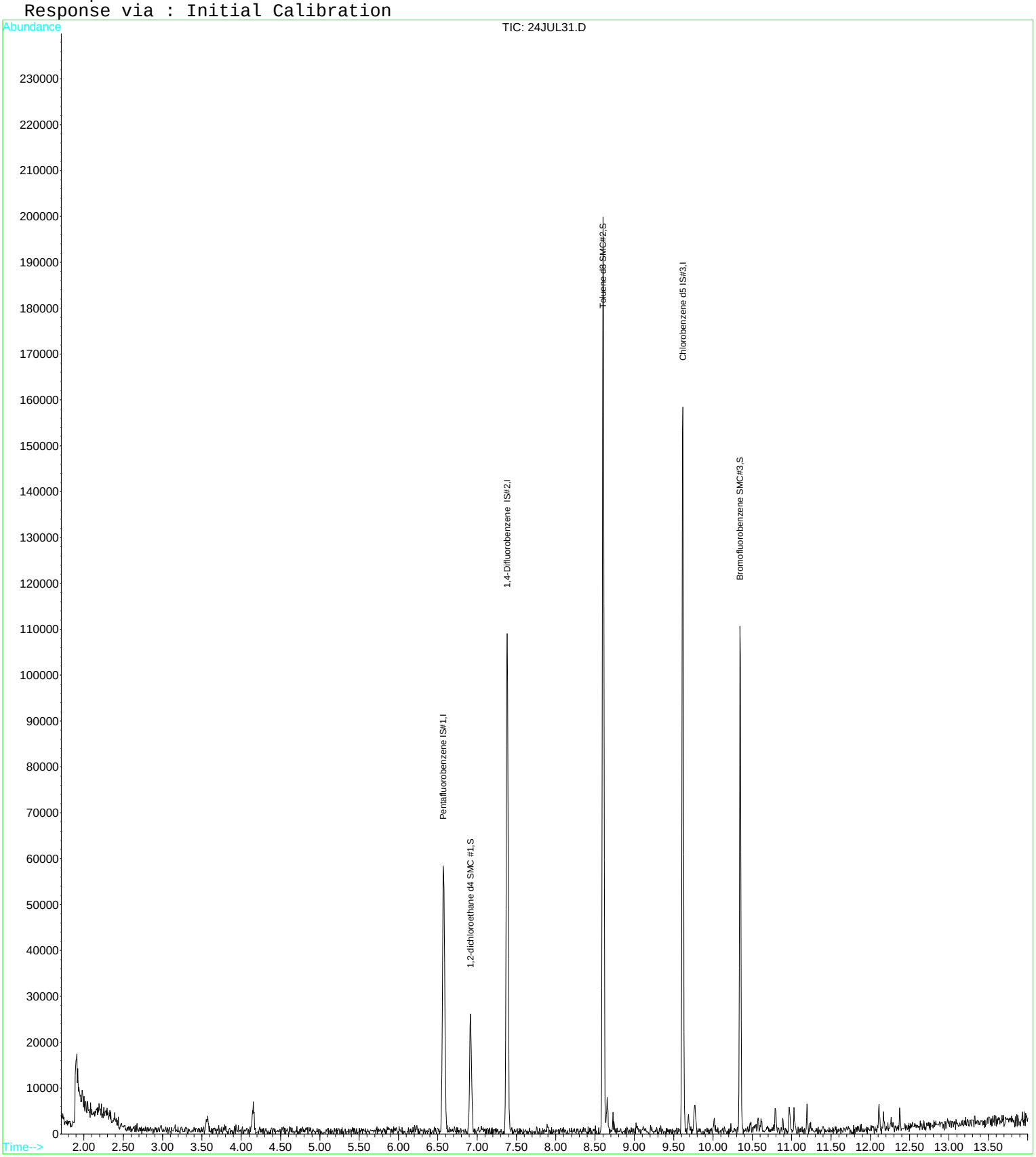
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL31.D Vial: 31
Acq On : 24 Jul 2017 4:12 pm Operator: MGC
Sample : 1712906-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:23 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL61.D Vial: 61
Acq On : 25 Jul 2017 3:43 am Operator: MGC
Sample : 1712906-TUN3 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:36 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	35839	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	66631	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	18264	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	14369	13.73	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 137.30%#			
31) Toluene d8 SMC#2	8.60	98	80883	9.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.30%			
49) Bromofluorobenzene SMC#3	10.34	95	24829	9.10	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.00%			

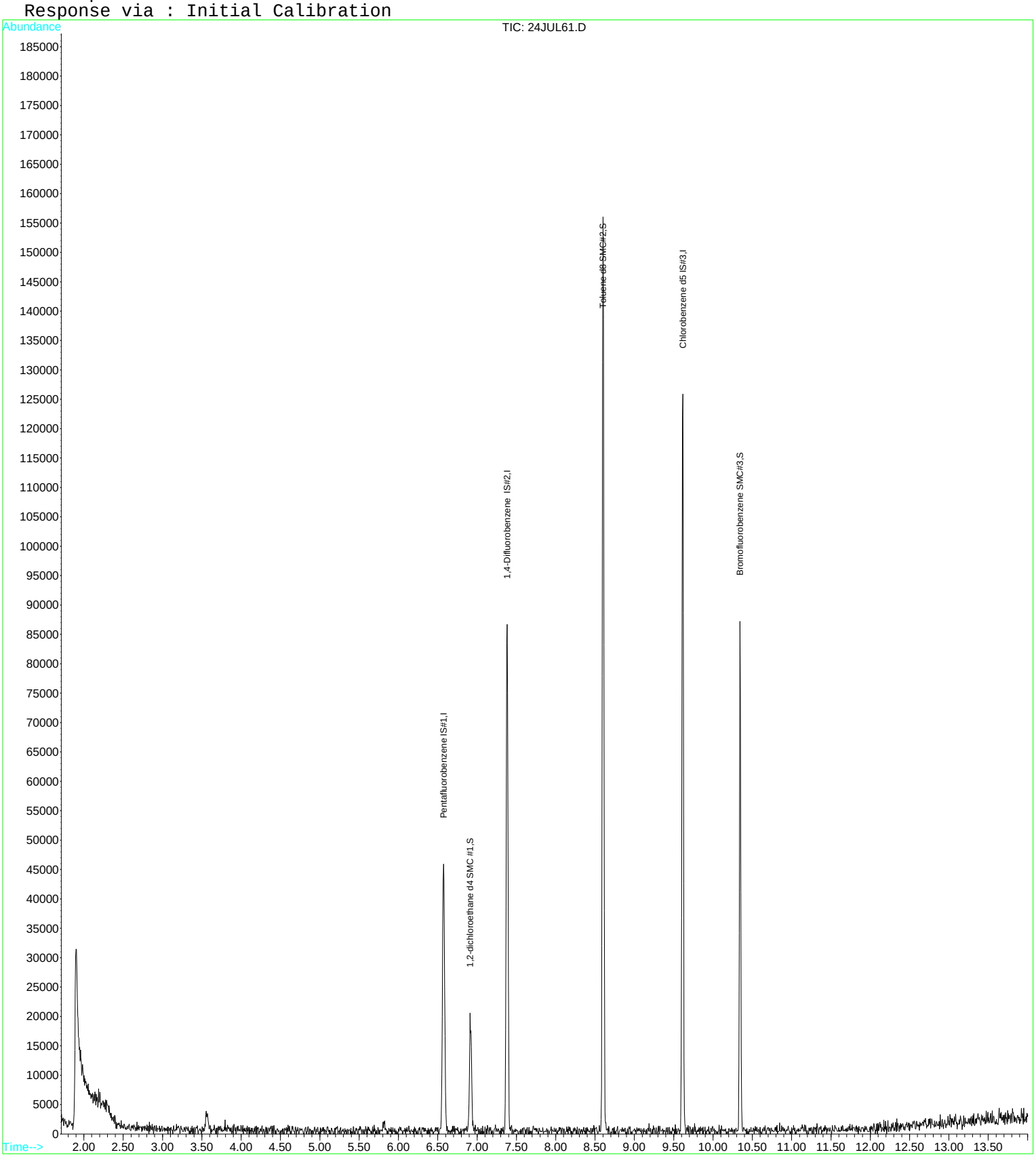
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL61.D Vial: 61
Acq On : 25 Jul 2017 3:43 am Operator: MGC
Sample : 1712906-TUN3 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 12:36 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL27.D Vial: 27
Acq On : 25 Jul 2017 3:38 pm Operator: MGC
Sample : 1713088-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:18 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	44846	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	78200	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	19220	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	13880	10.60	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 106.00%			
31) Toluene d8 SMC#2	8.60	98	93201	9.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.50%			
49) Bromofluorobenzene SMC#3	10.34	95	28698	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.00%			

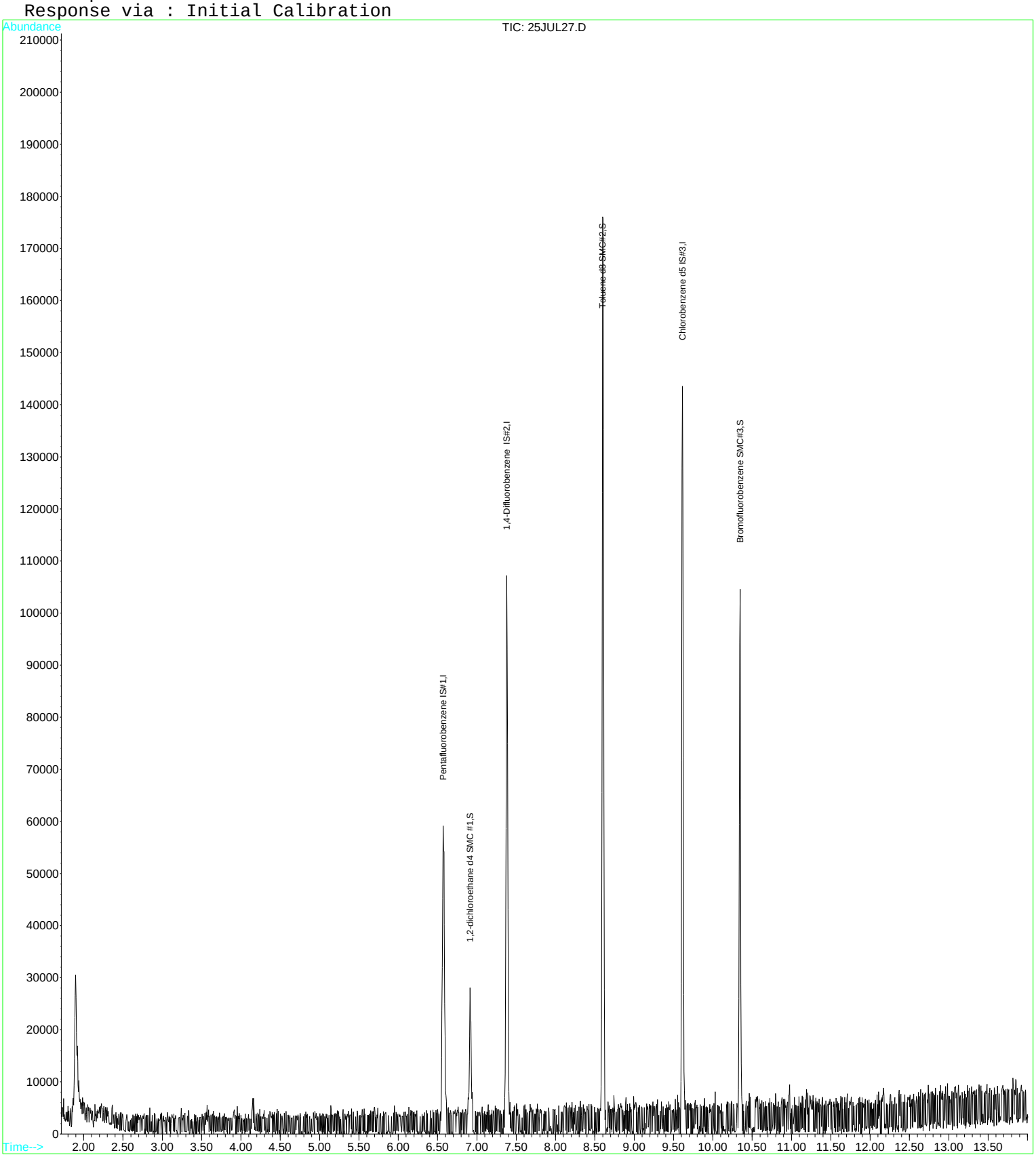
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL27.D Vial: 27
Acq On : 25 Jul 2017 3:38 pm Operator: MGC
Sample : 1713088-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:18 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL25.D Vial: 25
Acq On : 24 Jul 2017 1:54 pm Operator: MGC
Sample : B[G1853-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:05 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185355	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	287767	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	74719	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	52115	9.63	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 96.30%			
31) Toluene d8 SMC#2	8.60	98	347288	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			
49) Bromofluorobenzene SMC#3	10.34	95	112529	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%			

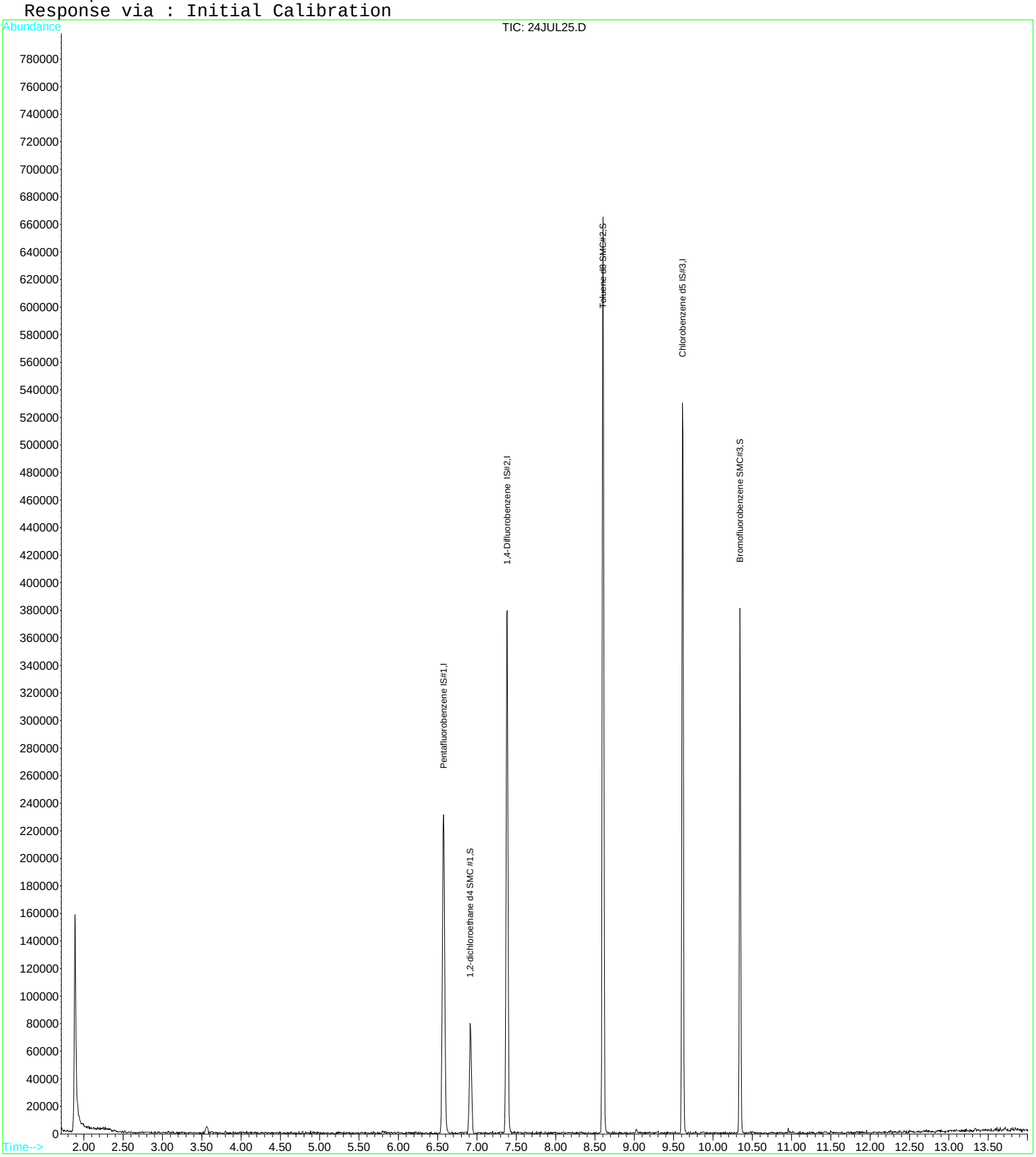
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL25.D Vial: 25
Acq On : 24 Jul 2017 1:54 pm Operator: MGC
Sample : B[G1853-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:05 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL25.D Vial: 25
Acq On : 24 Jul 2017 1:54 pm Operator: MGC
Sample : B[G1853-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:06 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185355	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	287767	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	74719	10.00	ug/L	0.00

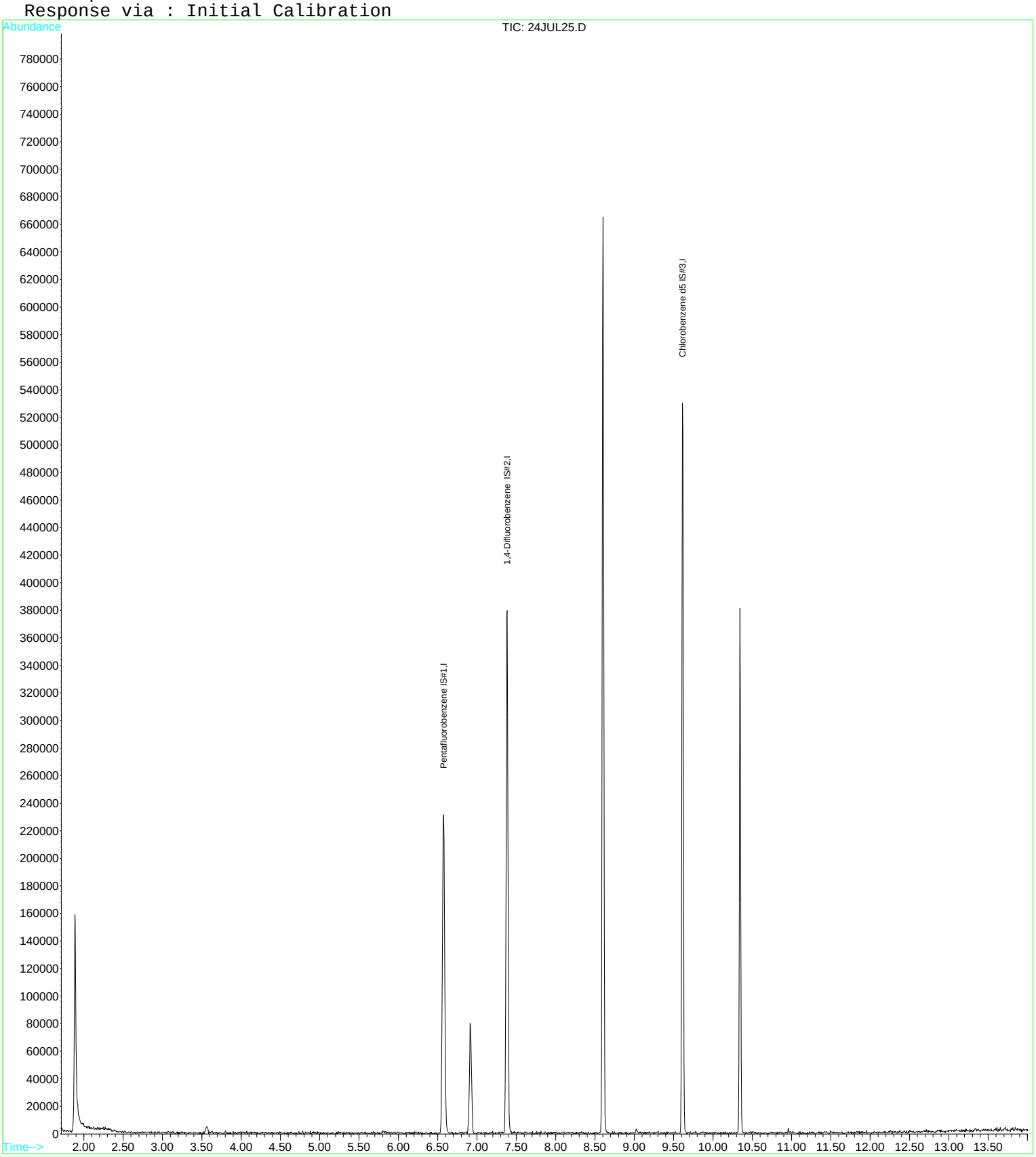
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL25.D Vial: 25
Acq On : 24 Jul 2017 1:54 pm Operator: MGC
Sample : B[G1853-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:06 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL25.D Vial: 25
Acq On : 24 Jul 2017 1:54 pm Operator: MGC
Sample : B[G1853-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:06 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185355	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	490477m	4.13	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	153150m	2.21	ug/L	-0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	639136m	5.03	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	913563m	7.77	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	684827m	8.08	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	457386m	8.62	ug/L	0.00

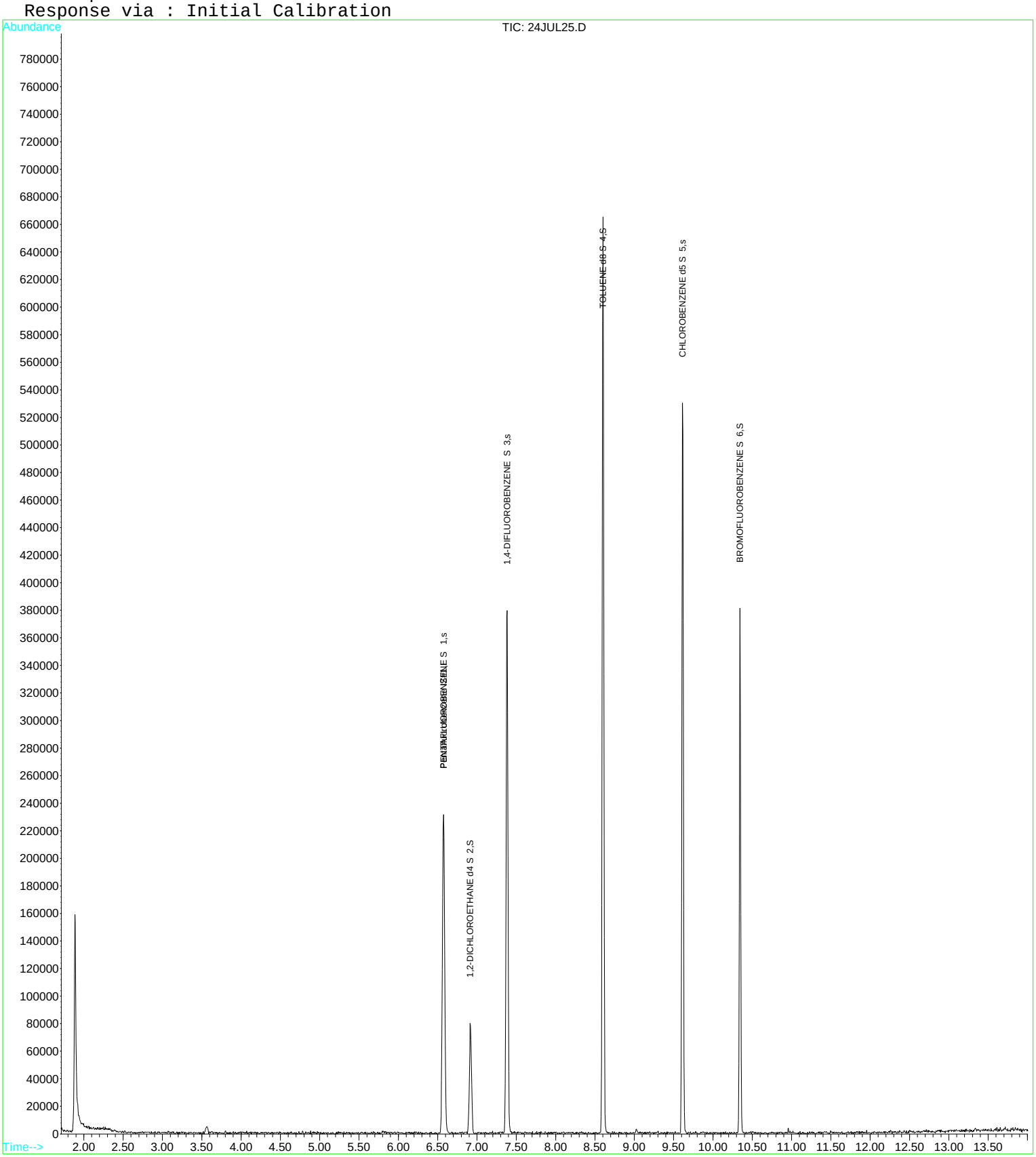
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL25.D Vial: 25
Acq On : 24 Jul 2017 1:54 pm Operator: MGC
Sample : B[G1853-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:06 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Raw Data - Matrix Spike

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL28.D Vial: 28
Acq On : 24 Jul 2017 3:03 pm Operator: MGC
Sample : B[G1853-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 15:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191699	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	294564	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	78309	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	53449	9.55	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 95.50%							
31) Toluene d8 SMC#2	8.60	98	355440	9.77	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.70%							
49) Bromofluorobenzene SMC#3	10.34	95	114087	9.76	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.60%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	274458	28.77	ug/L		96
3) Chloromethane	1.95	50	431875	23.95	ug/L		100
4) Vinyl chloride	2.07	62	483632	33.66	ug/L	#	67
5) Bromomethane	2.44	94	193561	24.84	ug/L	#	91
6) Chloroethane	2.57	64	273625	27.74	ug/L		100
7) Trichlorofluoromethane	2.87	101	340402	28.83	ug/L		98
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	255787	31.56	ug/L	#	83
9) 1,1-Dichloroethene	3.51	61	475036	30.71	ug/L		96
10) Methylene chloride	4.15	84	233698	28.25	ug/L		94
11) MTBE	4.48	73	332682	28.74	ug/L	#	80
12) T-1,2-dichloroethene	4.50	96	296891	30.92	ug/L		92
13) 1,1-Dichloroethane	5.05	63	655131	31.94	ug/L		99
14) 2,2-Dichloropropane	5.83	77	357095	30.93	ug/L	#	5
15) Cis-1,2-dichloroethene	5.82	96	629362	62.87	ug/L		89
16) Bromochloromethane	6.17	128	92115	28.87	ug/L	#	90
17) Chloroform	6.32	83	403622	27.81	ug/L		93
18) 1,1,1-Trichloroethane	6.53	97	365430	29.09	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	376822	28.71	ug/L		94
20) Carbon tetrachloride	6.71	119	257192	29.86	ug/L		93
22) 1,2-Dichloroethane	7.00	62	215856	27.68	ug/L	#	87
23) Benzene	6.94	78	1142773	29.11	ug/L	#	6
25) Trichloroethene	7.60	130	300669	29.72	ug/L		88
26) 1,2-Dichloropropane	7.83	63	314872	28.17	ug/L		93
27) Dibromomethane	7.90	93	84206	29.85	ug/L		96
28) Bromodichloromethane	8.05	83	239824	28.28	ug/L		91
30) Cis-1,3-dichloropropene	8.40	75	317122	29.95	ug/L		98
32) Toluene	8.65	92	741753	29.07	ug/L		93
33) Trans-1,3-dichloropropene	8.82	75	215313	31.16	ug/L	#	85
34) 1,1,2-Trichloroethane	8.96	97	127908	27.90	ug/L		88
35) Tetrachloroethene (PCE)	9.03	166	290109	29.93	ug/L		95
36) 1,3-Dichloropropane	9.08	76	206771	27.76	ug/L		95
37) Dibromochloromethane	9.24	129	136301	30.76	ug/L	#	92
38) 1,2-Dibromoethane	9.32	107	112860	29.61	ug/L		96
40) Chlorobenzene	9.64	112	687911	26.49	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	196506	30.75	ug/L		99
42) Ethylbenzene	9.69	106	444637	29.14	ug/L		81
43) P+m-Xylene	9.77	106	1065521	57.09	ug/L		99
44) O-Xylene	10.01	106	500479	29.02	ug/L		90
45) Styrene	10.02	104	799968	30.43	ug/L		92
46) Bromoform	10.15	173	60562	31.51	ug/L	#	100
47) Isopropylbenzene	10.23	105	1310305	29.35	ug/L		97
48) 1,1,2,2-Tetrachloroethane	10.41	83	128465	30.17	ug/L		96
50) 1,2,3-Trichloropropane	10.45	110	27982	30.91	ug/L	#	16
51) n-propylbenzene	10.48	91	1587404	27.38	ug/L		93
52) bromobenzene	10.44	156	271834	29.72	ug/L		85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL28.D Vial: 28
Acq On : 24 Jul 2017 3:03 pm Operator: MGC
Sample : B[G1853-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 15:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

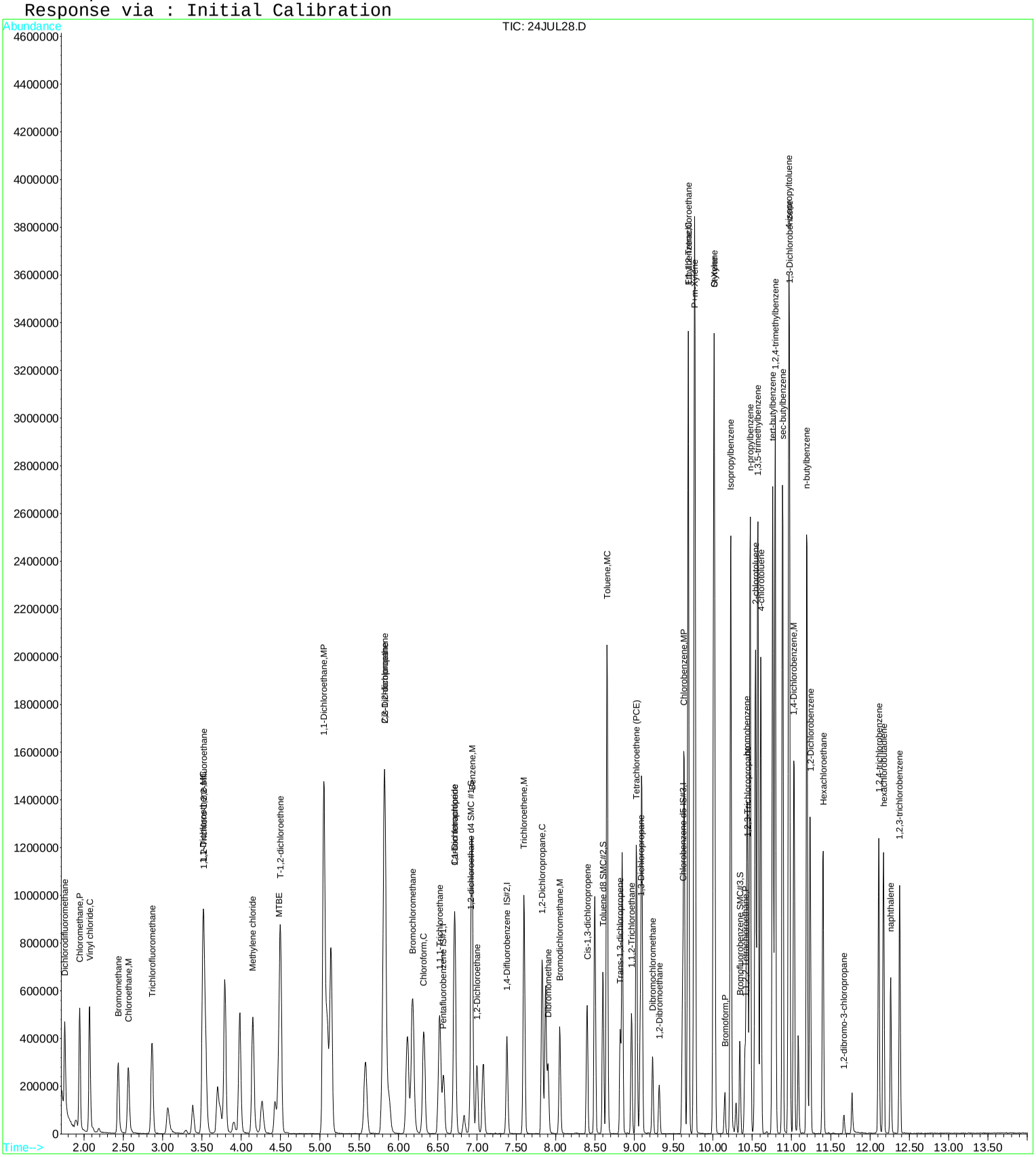
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	1,3,5-trimethylbenzene	10.57	105	1099527	29.76	ug/L		93
54)	2-chlorotoluene	10.54	91	1016927	27.77	ug/L		98
55)	4-chlorotoluene	10.61	91	906845	27.42	ug/L		98
56)	tert-butylbenzene	10.76	119	1039582	28.48	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	1057415	28.90	ug/L		94
58)	sec-butylbenzene	10.89	105	1483063	29.99	ug/L		99
59)	4-isopropyltoluene	10.97	119	1186635	29.43	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	536777	27.42	ug/L		93
61)	1,4-Dichlorobenzene	11.03	146	529498	27.67	ug/L		95
62)	n-butylbenzene	11.19	91	1101581	29.32	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	458092	27.13	ug/L		97
64)	Hexachloroethane	11.40	117	175650	25.75	ug/L	#	66
65)	1,2-dibromo-3-chloropropan	11.67	75	16222	28.26	ug/L		95
66)	1,2,4-trichlorobenzene	12.11	180	303778	31.06	ug/L		99
67)	hexachlorobutadiene	12.17	225	191425	28.27	ug/L	#	87
68)	naphthalene	12.26	128	387156	31.51	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	254890	31.05	ug/L	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL28.D Vial: 28
Acq On : 24 Jul 2017 3:03 pm Operator: MGC
Sample : B[G1853-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 15:17 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL28.D Vial: 28
Acq On : 24 Jul 2017 3:03 pm Operator: MGC
Sample : B[G1853-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:19 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	191699	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	294564	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	78309	10.00	ug/L	0.00

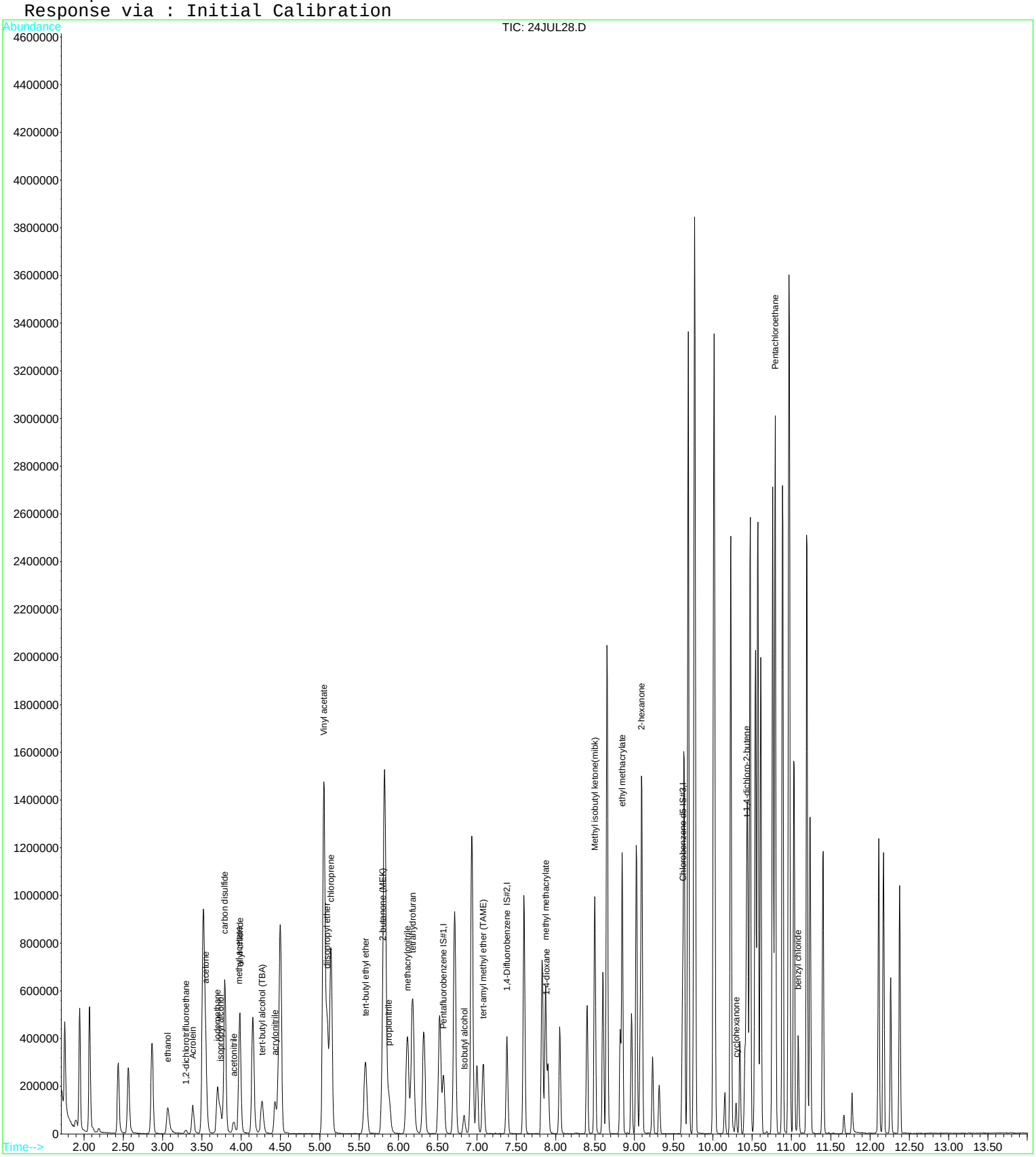
Target Compounds						Qvalue
2) ethanol	3.07	45	175571	5079.31	ug/L #	75
4) 1,2-dichlorotrifluoroethan	3.30	67	11545	0.91	ug/L #	88
6) isopropyl alcohol	3.74	45	162161	1017.75	ug/L #	72
7) Acrolein	3.39	56	134813	385.90	ug/L	98
8) acetone	3.55	43	251794	318.76	ug/L	96
9) tert-butyl alcohol (TBA)	4.27	59	211105	930.79	ug/L	100
10) acetonitrile	3.90	41	68143	181.14	ug/L	97
11) methyl acetate	3.97	43	4889	2.06	ug/L #	42
12) allyl chloride	3.98	41	630811	32.80	ug/L	96
13) iodomethane	3.70	142	289821	25.65	ug/L	99
14) acrylonitrile	4.43	53	130100	99.89	ug/L	96
15) carbon disulfide	3.79	76	1007823	34.68	ug/L	99
17) diisopropyl ether	5.10	87	127296	17.77	ug/L	76
18) Vinyl acetate	5.05	43	1920183	171.62	ug/L	96
19) chloroprene	5.14	53	646209	31.97	ug/L	89
20) tert-butyl ethyl ether	5.58	59	385291	16.44	ug/L	100
21) 2-butanone (MEK)	5.79	43	235406	167.85	ug/L	95
22) propionitrile	5.88	54	224962	477.78	ug/L #	88
23) Isobutyl alcohol	6.83	43	61532	566.42	ug/L #	44
24) methacrylonitrile	6.12	67	231839	180.62	ug/L	96
26) tetrahydrofuran	6.19	42	317681	337.49	ug/L #	89
28) tert-amyl methyl ether (TA	7.08	73	221903	17.21	ug/L	85
30) methyl methacrylate	7.87	69	201956	91.83	ug/L	98
32) 1,4-dioxane	7.89	88	66234	2473.14	ug/L	92
33) Methyl isobutyl ketone(mib	8.50	43	580341	176.09	ug/L	97
34) ethyl methacrylate	8.85	69	475577	94.53	ug/L	96
35) 2-hexanone	9.10	43	771112	345.39	ug/L	94
38) cyclohexanone	10.30	55	50210	96.88	ug/L	98
39) t-1,4-dichloro-2-butene	10.42	75	215763	261.70	ug/L #	12
41) Pentachloroethane	10.79	167	72186	23.04	ug/L #	74
42) benzyl chloride	11.09	91	222524	41.47	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL28.D Vial: 28
Acq On : 24 Jul 2017 3:03 pm Operator: MGC
Sample : B[G1853-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:19 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Matrix Spike Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL29.D Vial: 29
Acq On : 24 Jul 2017 3:26 pm Operator: MGC
Sample : B[G1853-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 15:40 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185324	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291602	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.61	119	77365	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.91	65	55480	10.25	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 102.50%							
31) Toluene d8 SMC#2	8.60	98	358045	9.94	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.40%							
49) Bromofluorobenzene SMC#3	10.34	95	116324	10.07	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.70%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.75	85	267852	29.05	ug/L		96
3) Chloromethane	1.94	50	408282	23.42	ug/L		97
4) Vinyl chloride	2.07	62	452836	32.61	ug/L	#	67
5) Bromomethane	2.44	94	201845	26.79	ug/L	#	91
6) Chloroethane	2.56	64	267901	28.09	ug/L		98
7) Trichlorofluoromethane	2.87	101	331037	29.00	ug/L		98
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	242246	30.92	ug/L	#	83
9) 1,1-Dichloroethene	3.51	61	463340	30.98	ug/L		96
10) Methylene chloride	4.15	84	226941	28.38	ug/L		94
11) MTBE	4.48	73	327600	29.27	ug/L	#	78
12) T-1,2-dichloroethene	4.50	96	289556	31.19	ug/L		90
13) 1,1-Dichloroethane	5.05	63	631112	31.82	ug/L		99
14) 2,2-Dichloropropane	5.83	77	337640	30.25	ug/L	#	1
15) Cis-1,2-dichloroethene	5.82	96	617671	63.82	ug/L		90
16) Bromochloromethane	6.18	128	90350	29.29	ug/L	#	88
17) Chloroform	6.32	83	394832	28.14	ug/L		94
18) 1,1,1-Trichloroethane	6.52	97	358146	29.49	ug/L	#	73
19) 1,1-Dichloropropene	6.71	75	358226	28.24	ug/L		95
20) Carbon tetrachloride	6.71	119	254513	30.56	ug/L		94
22) 1,2-Dichloroethane	7.00	62	207952	27.58	ug/L	#	85
23) Benzene	6.93	78	1117208	29.44	ug/L	#	7
25) Trichloroethene	7.60	130	289117	28.87	ug/L		89
26) 1,2-Dichloropropane	7.83	63	302330	27.33	ug/L		93
27) Dibromomethane	7.90	93	82335	29.48	ug/L		96
28) Bromodichloromethane	8.05	83	232330	27.68	ug/L		90
30) Cis-1,3-dichloropropene	8.40	75	310407	29.62	ug/L		98
32) Toluene	8.66	92	724899	28.70	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	205266	30.00	ug/L	#	84
34) 1,1,2-Trichloroethane	8.96	97	129510	28.53	ug/L		86
35) Tetrachloroethene (PCE)	9.03	166	283203	29.51	ug/L		95
36) 1,3-Dichloropropane	9.08	76	205313	27.85	ug/L		92
37) Dibromochloromethane	9.23	129	132933	30.30	ug/L	#	95
38) 1,2-Dibromoethane	9.32	107	114069	30.24	ug/L		96
40) Chlorobenzene	9.63	112	674419	26.29	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	188751	29.90	ug/L		97
42) Ethylbenzene	9.69	106	435389	28.89	ug/L		79
43) P+m-Xylene	9.77	106	1033556	56.05	ug/L		99
44) O-Xylene	10.01	106	484658	28.44	ug/L		90
45) Styrene	10.02	104	766920	29.53	ug/L		91
46) Bromoform	10.15	173	63413	33.39	ug/L	#	100
47) Isopropylbenzene	10.23	105	1271575	28.83	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.41	83	130472	31.02	ug/L		95
50) 1,2,3-Trichloropropane	10.45	110	28775	32.17	ug/L	#	13
51) n-propylbenzene	10.47	91	1548521	27.04	ug/L		92
52) bromobenzene	10.44	156	260566	28.84	ug/L		82

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL29.D Vial: 29
Acq On : 24 Jul 2017 3:26 pm Operator: MGC
Sample : B[G1853-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 15:40 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

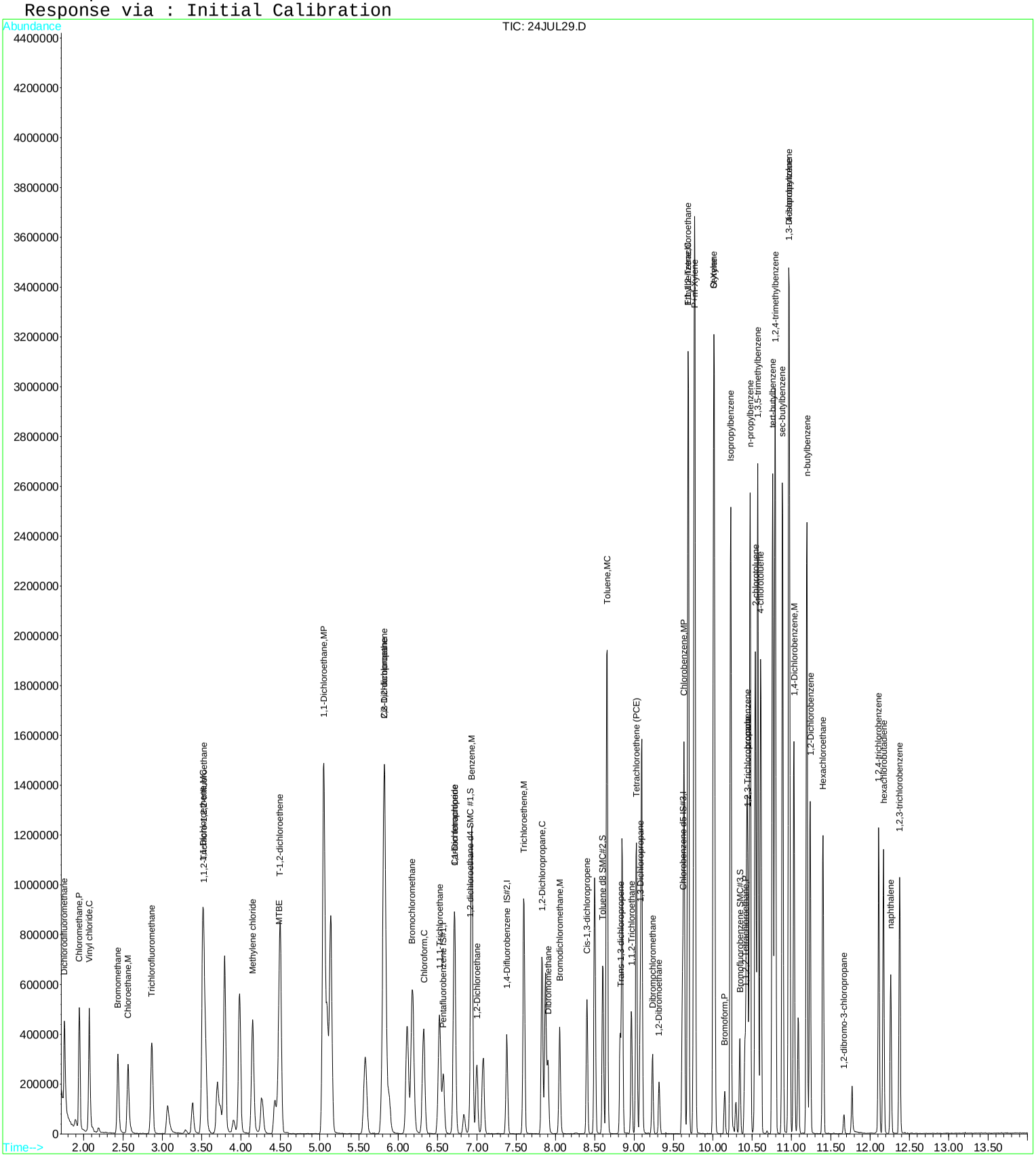
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	1,3,5-trimethylbenzene	10.57	105	1073346	29.41	ug/L		93
54)	2-chlorotoluene	10.54	91	971504	26.85	ug/L		97
55)	4-chlorotoluene	10.61	91	873867	26.74	ug/L		99
56)	tert-butylbenzene	10.76	119	1008144	27.96	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	1019542	28.20	ug/L		92
58)	sec-butylbenzene	10.88	105	1435803	29.39	ug/L		98
59)	4-isopropyltoluene	10.97	119	1162830	29.19	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	523699	27.08	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	523194	27.68	ug/L		94
62)	n-butylbenzene	11.20	91	1072896	28.90	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	449291	26.93	ug/L		97
64)	Hexachloroethane	11.40	117	170983	25.39	ug/L	#	65
65)	1,2-dibromo-3-chloropropan	11.67	75	17277	30.47	ug/L		96
66)	1,2,4-trichlorobenzene	12.11	180	298061	30.85	ug/L		99
67)	hexachlorobutadiene	12.17	225	185567	27.74	ug/L	#	85
68)	naphthalene	12.26	128	384515	31.68	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	254300	31.36	ug/L	#	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL29.D Vial: 29
Acq On : 24 Jul 2017 3:26 pm Operator: MGC
Sample : B[G1853-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 15:40 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL29.D Vial: 29
Acq On : 24 Jul 2017 3:26 pm Operator: MGC
Sample : B[G1853-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:20 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185324	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	291602	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	77365	10.00	ug/L	0.00

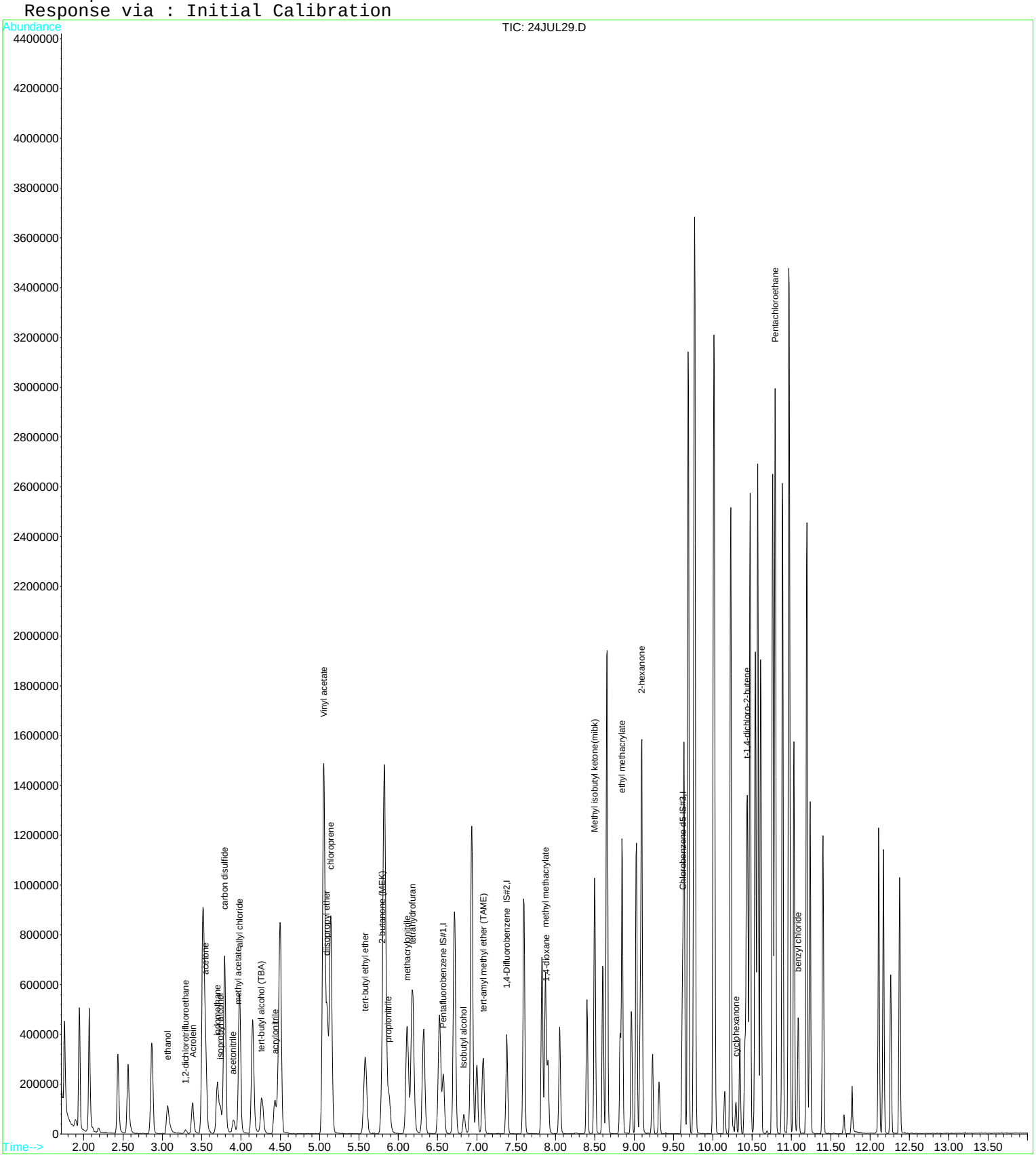
Target Compounds						Qvalue
2) ethanol	3.07	45	177064	5298.71	ug/L #	71
4) 1,2-dichlorotrifluoroethan	3.30	67	11013	0.90	ug/L #	84
6) isopropyl alcohol	3.74	45	172886	1122.39	ug/L #	69
7) Acrolein	3.38	56	138331	409.60	ug/L	90
8) acetone	3.55	43	269908	353.45	ug/L	96
9) tert-butyl alcohol (TBA)	4.26	59	224492	1023.87	ug/L	100
10) acetonitrile	3.90	41	73370	201.75	ug/L	97
11) methyl acetate	3.96	43	5404	2.35	ug/L #	31
12) allyl chloride	3.98	41	710277	38.20	ug/L	94
13) iodomethane	3.70	142	292882	26.81	ug/L	98
14) acrylonitrile	4.43	53	137208	108.97	ug/L	95
15) carbon disulfide	3.79	76	1124855	40.03	ug/L	99
17) diisopropyl ether	5.09	87	132556	19.14	ug/L	76
18) Vinyl acetate	5.05	43	1990913	184.06	ug/L	96
19) chloroprene	5.14	53	729152	37.32	ug/L	89
20) tert-butyl ethyl ether	5.58	59	400222	17.66	ug/L	99
21) 2-butanone (MEK)	5.79	43	251969	185.84	ug/L	95
22) propionitrile	5.88	54	237928	522.70	ug/L #	90
23) Isobutyl alcohol	6.83	43	63079	600.63	ug/L #	40
24) methacrylonitrile	6.11	67	242544	195.46	ug/L	96
26) tetrahydrofuran	6.19	42	336431	369.71	ug/L #	88
28) tert-amyl methyl ether (TA	7.08	73	232301	18.63	ug/L	84
30) methyl methacrylate	7.87	69	210835	96.84	ug/L	96
32) 1,4-dioxane	7.89	88	69310	2614.28	ug/L	87
33) Methyl isobutyl ketone(mib	8.50	43	610789	187.21	ug/L	98
34) ethyl methacrylate	8.85	69	499200	100.23	ug/L	97
35) 2-hexanone	9.10	43	807634	365.43	ug/L	94
38) cyclohexanone	10.30	55	51445	100.47	ug/L	99
39) t-1,4-dichloro-2-butene	10.43	75	226049	277.52	ug/L #	14
41) Pentachloroethane	10.80	167	81822	26.44	ug/L #	77
42) benzyl chloride	11.08	91	255624	47.78	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL29.D Vial: 29
Acq On : 24 Jul 2017 3:26 pm Operator: MGC
Sample : B[G1853-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:20 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL27.D Vial: 27
Acq On : 24 Jul 2017 2:40 pm Operator: MGC
Sample : B[G1853-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 14:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191745	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	289829	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	77642	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	52702	9.41	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 94.10%							
31) Toluene d8 SMC#2	8.60	98	359946	10.06	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.60%							
49) Bromofluorobenzene SMC#3	10.34	95	115046	9.92	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.20%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	240614	25.22	ug/L		95
3) Chloromethane	1.95	50	363668	20.16	ug/L		99
4) Vinyl chloride	2.07	62	348121	24.23	ug/L	#	66
5) Bromomethane	2.44	94	154104	19.77	ug/L	#	90
6) Chloroethane	2.57	64	237745	24.10	ug/L		96
7) Trichlorofluoromethane	2.87	101	294874	24.97	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	215047	26.53	ug/L	#	83
9) 1,1-Dichloroethene	3.51	61	410112	26.50	ug/L		96
10) Methylene chloride	4.15	84	205567	24.85	ug/L		95
11) MTBE	4.48	73	282448	24.39	ug/L	#	80
12) T-1,2-dichloroethene	4.50	96	248869	25.91	ug/L		93
13) 1,1-Dichloroethane	5.05	63	503931	24.56	ug/L		97
14) 2,2-Dichloropropane	5.83	77	300465	26.02	ug/L		92
15) Cis-1,2-dichloroethene	5.82	96	250569	25.02	ug/L		96
16) Bromochloromethane	6.18	128	79013	24.76	ug/L	#	87
17) Chloroform	6.33	83	368182	25.36	ug/L		95
18) 1,1,1-Trichloroethane	6.53	97	318662	25.36	ug/L	#	73
19) 1,1-Dichloropropene	6.72	75	318150	24.24	ug/L		94
20) Carbon tetrachloride	6.71	119	216399	25.12	ug/L		91
22) 1,2-Dichloroethane	7.00	62	187112	23.99	ug/L	#	87
23) Benzene	6.94	78	982794	25.03	ug/L	#	6
25) Trichloroethene	7.60	130	258645	25.99	ug/L		88
26) 1,2-Dichloropropane	7.83	63	278943	25.37	ug/L		94
27) Dibromomethane	7.90	93	70123	25.26	ug/L		94
28) Bromodichloromethane	8.05	83	209429	25.10	ug/L		91
29) 2-ceve	8.27	63	281927	99.27	ug/L	#	73
30) Cis-1,3-dichloropropene	8.40	75	277689	26.66	ug/L		97
32) Toluene	8.65	92	655194	26.10	ug/L		93
33) Trans-1,3-dichloropropene	8.82	75	182690	26.87	ug/L	#	86
34) 1,1,2-Trichloroethane	8.96	97	111699	24.76	ug/L		87
35) Tetrachloroethene (PCE)	9.03	166	250890	26.31	ug/L		95
36) 1,3-Dichloropropane	9.08	76	181271	24.74	ug/L		93
37) Dibromochloromethane	9.24	129	117792	27.02	ug/L	#	96
38) 1,2-Dibromoethane	9.32	107	96021	25.61	ug/L		94
40) Chlorobenzene	9.64	112	607698	23.60	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	170690	26.94	ug/L		98
42) Ethylbenzene	9.69	106	386617	25.56	ug/L		83
43) P+m-Xylene	9.77	106	940967	50.85	ug/L		99
44) O-Xylene	10.01	106	441387	25.81	ug/L		90
45) Styrene	10.02	104	685395	26.30	ug/L		92
46) Bromoform	10.15	173	51261	26.90	ug/L	#	100
47) Isopropylbenzene	10.23	105	1155167	26.10	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.41	83	105113	24.90	ug/L		97
50) 1,2,3-Trichloropropane	10.45	110	22556	25.13	ug/L	#	15
51) n-propylbenzene	10.48	91	1411619	24.56	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL27.D Vial: 27
Acq On : 24 Jul 2017 2:40 pm Operator: MGC
Sample : B[G1853-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 14:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

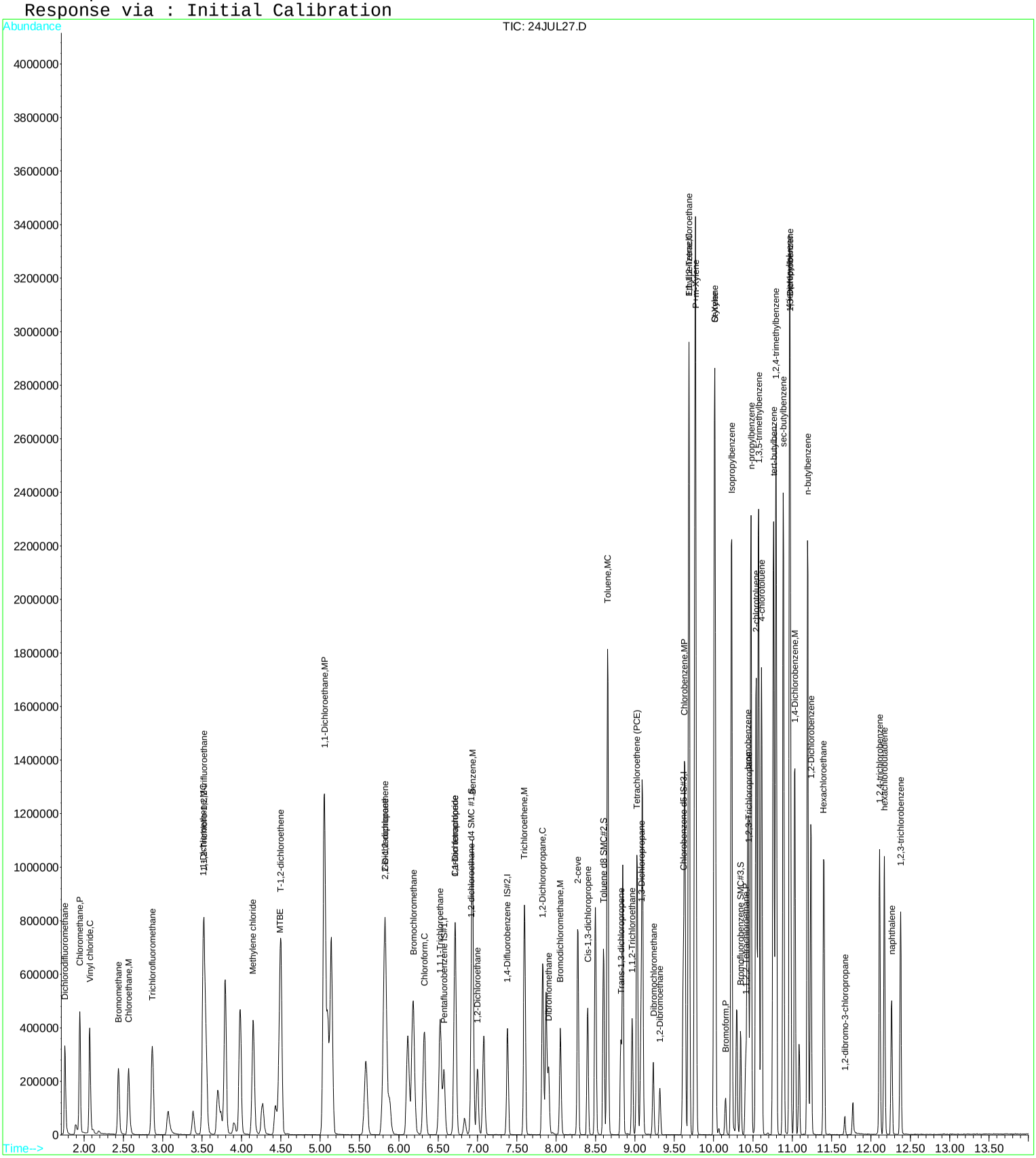
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	bromobenzene	10.44	156	228994	25.26 ug/L	81
53)	1,3,5-trimethylbenzene	10.57	105	978434	26.71 ug/L	93
54)	2-chlorotoluene	10.54	91	888193	24.46 ug/L	98
55)	4-chlorotoluene	10.61	91	804342	24.53 ug/L	96
56)	tert-butylbenzene	10.76	119	906732	25.06 ug/L	95
57)	1,2,4-trimethylbenzene	10.79	105	926049	25.52 ug/L	94
58)	sec-butylbenzene	10.89	105	1300229	26.52 ug/L	99
59)	4-isopropyltoluene	10.97	119	1068279	26.72 ug/L	98
60)	1,3-Dichlorobenzene	10.98	146	463917	23.90 ug/L	95
61)	1,4-Dichlorobenzene	11.03	146	457021	24.09 ug/L	95
62)	n-butylbenzene	11.19	91	973043	26.12 ug/L	99
63)	1,2-Dichlorobenzene	11.24	146	396366	23.67 ug/L	96
64)	Hexachloroethane	11.40	117	146305	21.91 ug/L #	69
65)	1,2-dibromo-3-chloropropan	11.66	75	13973	24.55 ug/L	98
66)	1,2,4-trichlorobenzene	12.11	180	255559	26.35 ug/L	98
67)	hexachlorobutadiene	12.17	225	166723	24.83 ug/L #	86
68)	naphthalene	12.26	128	299723	24.60 ug/L	100
69)	1,2,3-trichlorobenzene	12.38	180	205907	25.30 ug/L #	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL27.D Vial: 27
Acq On : 24 Jul 2017 2:40 pm Operator: MGC
Sample : B[G1853-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 24 14:54 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL27.D Vial: 27
Acq On : 24 Jul 2017 2:40 pm Operator: MGC
Sample : B[G1853-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:18 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191745	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	289829	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	77642	10.00	ug/L	0.00

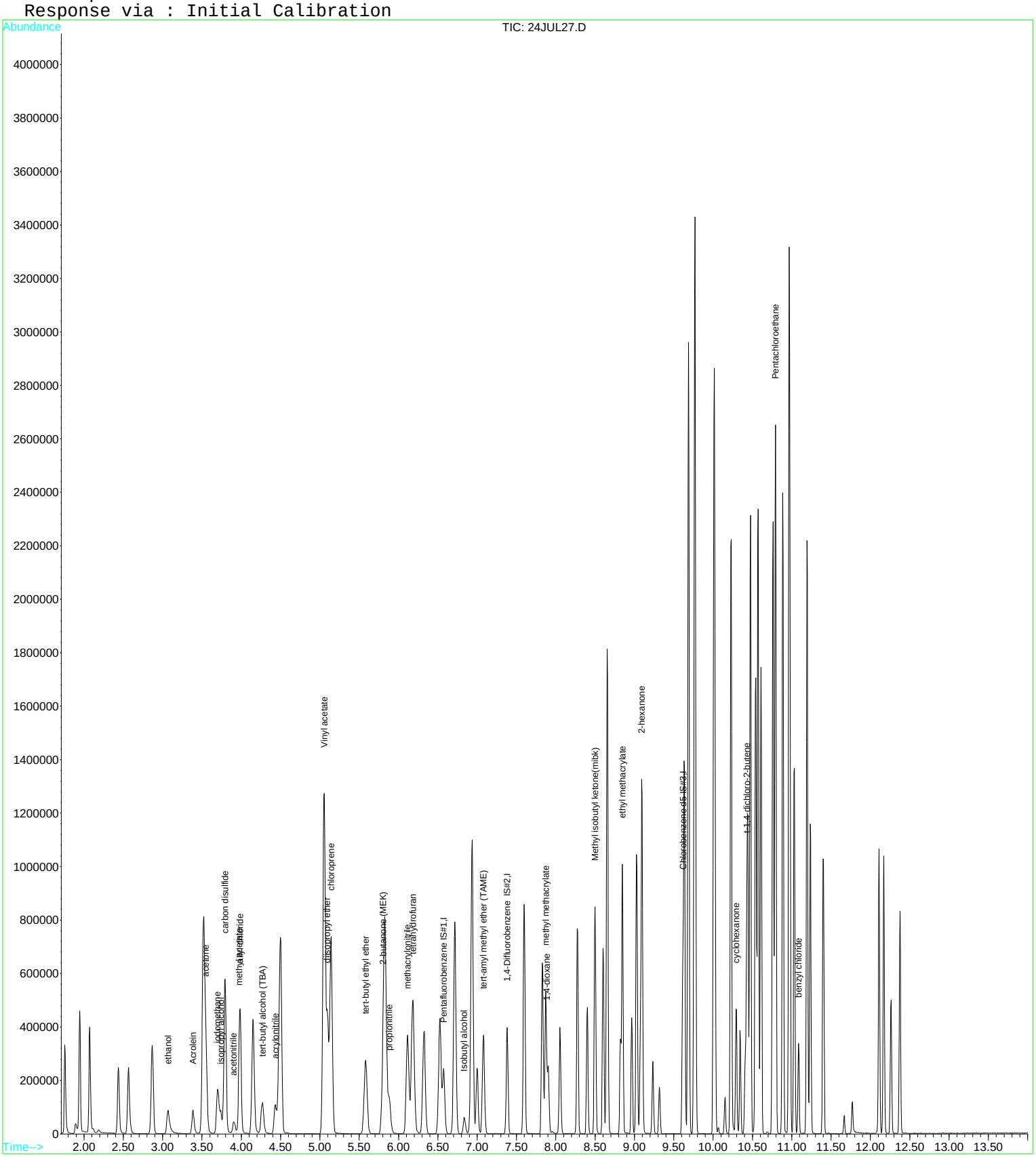
Target Compounds						Qvalue
2) ethanol	3.07	45	141604	4095.65	ug/L #	75
6) isopropyl alcohol	3.74	45	129061	809.82	ug/L #	71
7) Acrolein	3.38	56	95920	274.51	ug/L	93
8) acetone	3.55	43	236554	299.40	ug/L	99
9) tert-butyl alcohol (TBA)	4.27	59	173517	764.88	ug/L	100
10) acetonitrile	3.90	41	62001	164.78	ug/L	95
11) methyl acetate	3.97	43	5429	2.28	ug/L #	40
12) allyl chloride	3.98	41	596258	31.00	ug/L	97
13) iodomethane	3.70	142	238326	21.08	ug/L	98
14) acrylonitrile	4.44	53	107880	82.81	ug/L	94
15) carbon disulfide	3.79	76	914186	31.45	ug/L	100
17) diisopropyl ether	5.10	87	116917	16.32	ug/L	79
18) Vinyl acetate	5.06	43	1723573	154.01	ug/L	96
19) chloroprene	5.14	53	606346	29.99	ug/L	90
20) tert-butyl ethyl ether	5.58	59	351367	14.99	ug/L	99
21) 2-butanone (MEK)	5.80	43	216683	154.46	ug/L	93
22) propionitrile	5.88	54	190800	405.13	ug/L #	90
23) Isobutyl alcohol	6.83	43	48027	442.00	ug/L #	33
24) methacrylonitrile	6.12	67	205159	159.79	ug/L	94
26) tetrahydrofuran	6.19	42	286574	304.37	ug/L #	89
28) tert-amyl methyl ether (TA	7.08	73	195952	15.19	ug/L	89
30) methyl methacrylate	7.87	69	176977	81.79	ug/L	95
32) 1,4-dioxane	7.89	88	54944	2085.09	ug/L	91
33) Methyl isobutyl ketone(mib	8.50	43	507164	156.40	ug/L	98
34) ethyl methacrylate	8.85	69	405018	81.82	ug/L	97
35) 2-hexanone	9.09	43	673578	306.63	ug/L	95
38) cyclohexanone	10.30	55	184228	358.52	ug/L	99
39) t-1,4-dichloro-2-butene	10.42	75	180931	221.34	ug/L #	13
41) Pentachloroethane	10.79	167	63274	20.37	ug/L #	72
42) benzyl chloride	11.09	91	189437	35.99	ug/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL24\24JUL27.D Vial: 27
Acq On : 24 Jul 2017 2:40 pm Operator: MGC
Sample : B[G1853-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 9:18 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1853

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Volatiles - GC/MS - EPA 5030 Water MS | SurrogateUsed: 7G20041

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-01 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-02 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-03 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-04 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-05 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-06 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-07 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-08 A	g8260w BTXE	7/24/2017 12:00PM		25	25				4	
1720018-08 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-09 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-10 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-11 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-12 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-13 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720018-14 A	gm8260w Full QC Navy	7/24/2017 12:00PM	MGC	25	25				4	
1720247-01 A	g8260w BTXE	7/25/2017 7:00AM	MGC	25	25				4	
1720247-02 A	g8260w BTXE	7/25/2017 7:00AM	MGC	25	25				4	
1720247-03 A	g8260w BTXE	7/25/2017 7:00AM	MGC	25	25				4	
1720247-04 A	g8260w BTXE	7/25/2017 7:00AM	MGC	25	25				4	
B[G1853-BLK1	QC	7/24/2017 12:00PM	MGC	25	25				4	
B[G1853-BS1	QC	7/24/2017 12:00PM	MGC	25	25	7G21007		12.5	4	
B[G1853-MS1	QC	7/24/2017 12:00PM	MGC	25	25	7G21007	1720018-08	12.5	4	
B[G1853-MSD1	QC	7/24/2017 12:00PM	MGC	25	25	7G21007	1720018-08	12.5	4	

Surrogate Mixes	Description	Solvent	Prepared	Expires
7G20041	8260 V5 WORK SURR. STD BATCH	Methanol VRL-15-5590	7/20/2017 by Miguel Chavez	10/20/2017
7G21007	8260 V5 I SPIKE COMBO	meoh	7/20/2017 by Miguel Chavez	10/20/2017

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1712752

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/18/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712752-TUN1	QC		1		7F24002		
1712752-CAL1	QC		2		7G20044		
1712752-CAL2	QC		3		7G20045		
1712752-CAL3	QC		4		7G20046		
1712752-CAL4	QC		5		7G20047		
1712752-CAL5	QC		6		7G20048		
1712752-CAL6	QC		7		7G20049		
1712752-CAL7	QC		8		7G20056		
1712752-CAL8	QC		9		7G20057		
1712752-CAL9	QC		10		7G20058		
1712752-CALA	QC		11		7G20059		
1712752-CALB	QC		12		7G20060		
1712752-CALC	QC		13		7G20061		
1712752-TUN2	QC		14		7F24002		
1712752-CALD	QC		15		7G20063		
1712752-CALE	QC		16		7G20064		
1712752-CALF	QC		17		7G20065		
1712752-CALG	QC		18		7G20066		
1712752-CALH	QC		19		7G20067		
1712752-CALI	QC		20		7G20068		

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1712906

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/24/2017 Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712906-ICV1	QC		1		7G20050		
1712906-ICB1	QC		2		7G21006		
1712906-ICV2	QC		3		7G20062		
1712906-ICB2	QC		4		7G21006		
1712906-TUN1	QC		5		7F24002		
1712906-CCV1	QC		6		7G21004		
1712906-CCV2	QC		7		7G21005		
1712906-CCV3	QC		8		7G21008		
1712906-CCB1	QC		9		7G21006		
B[G1819-BLK1	QC		10			7G20040	
1719849-10	gm8260w Full QC Navy	A	11			7G20040	Full SAP LIST
B[G1819-BS1	QC		12			7G20040	
B[G1819-MS1	QC		13			7G20040	
B[G1819-MSD1	QC		14			7G20040	
1719849-10RE1	g8260w	B	15			7G20040	BatchQC
1719849-10RE1	g8260w BTXE	B	16			7G20040	BatchQC
1719849-10RE1	g8260w Full	B	17			7G20040	BatchQC
1719849-10RE1	gm8260w Full QC Navy	B	18			7G20040	Full SAP LIST
1719849-10RE1	gm8260w Full2 QC Navy	B	19			7G20040	BatchQC
1720077-01	g8260w BTXE	A	20			7G20040	
1720077-02	g8260w BTXE	A	21			7G20040	
1720077-03	g8260w BTXE	A	22			7G20040	
1720077-04	g8260w BTXE	A	23			7G20040	
1719849-05RE1	gm8260w Full QC Navy	D	24			7G20040	Full SAP LIST
1719843-07RE1	gm8260w Full2 QC Navy	B	25			7G20040	Btex,mtbe,tba only
1719985-01RE1	gm8260w Full QC Navy	B	26			7G20040	standard list + TBA & tph gas
1719849-01RE1	gm8260w Full QC Navy	B	27			7G20040	Full SAP LIST
1719851-09RE1	g8260w 8010 List	B	28			7G20040	Added 7/25/2017 by MGC
B[G1853-BLK1	QC		29			7G20040	
1720018-08	g8260w BTXE	A	30			7G20040	BatchQC
1720018-08	gm8260w Full QC Navy	A	31			7G20040	Full SAP LIST
B[G1853-BS1	QC		32			7G20040	
B[G1853-MS1	QC		33			7G20040	
B[G1853-MSD1	QC		34			7G20040	
1712906-TUN2	QC		35		7F24002		
1712906-CCV4	QC		36		7G21004		
1712906-CCV5	QC		37		7G21005		
1712906-CCV6	QC		38		7G21008		
1712906-CCB2	QC		39		7G21006		

ANALYSIS SEQUENCE

1712906

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/24/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719849-04	gm8260w Full QC Navy	A	40			7G20040	Full SAP LIST
1719849-06	gm8260w Full QC Navy	A	41			7G20040	Full SAP LIST
1719849-07	gm8260w Full QC Navy	A	42			7G20040	Full SAP LIST
1719849-08	gm8260w Full QC Navy	A	43			7G20040	Full SAP LIST
1719849-09	gm8260w Full QC Navy	A	44			7G20040	Full SAP LIST
1719849-11	gm8260w Full QC Navy	A	45			7G20040	Full SAP LIST
1719849-12	gm8260w Full QC Navy	A	46			7G20040	Full SAP LIST
1719853-01	gm8260w Full2 QC Navy	A	47			7G20040	short list - Benzene & Ethylbenzen only
1719853-02	gm8260w Full2 QC Navy	A	48			7G20040	short list - Benzene & Ethylbenzen only
1719853-03	gm8260w Full2 QC Navy	A	49			7G20040	short list - Benzene & Ethylbenzen only
1719853-04	gm8260w Full2 QC Navy	A	50			7G20040	short list - Benzene & Ethylbenzen only
1719853-05	gm8260w Full2 QC Navy	A	51			7G20040	short list - Benzene & Ethylbenzen only
1719853-06	gm8260w Full2 QC Navy	A	52			7G20040	short list - Benzene & Ethylbenzen only
1719853-07	gm8260w Full2 QC Navy	A	53			7G20040	short list - Benzene & Ethylbenzen only
1720018-01	gm8260w Full QC Navy	A	54			7G20040	Full SAP LIST
1720018-02	gm8260w Full QC Navy	A	55			7G20040	Full SAP LIST
1720018-03	gm8260w Full QC Navy	A	56			7G20040	Full SAP LIST
1720018-04	gm8260w Full QC Navy	A	57			7G20040	Full SAP LIST
1720018-05	gm8260w Full QC Navy	A	58			7G20040	Full SAP LIST
1720018-06	gm8260w Full QC Navy	A	59			7G20040	Full SAP LIST
1720018-07	gm8260w Full QC Navy	A	60			7G20040	Full SAP LIST
1720018-09	gm8260w Full QC Navy	A	61			7G20040	Full SAP LIST
1720018-10	gm8260w Full QC Navy	A	62			7G20040	Full SAP LIST
1720018-11	gm8260w Full QC Navy	A	63			7G20040	Full SAP LIST
1712906-TUN3	QC		64		7F24002		
1712906-CCV7	QC		65		7G21004		
1712906-CCV8	QC		66		7G21005		
1712906-CCV9	QC		67		7G21008		
1712906-CCB3	QC		68		7G21006		

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713088

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/25/2017 Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713088-ICV1	QC		1		7G20050		
1713088-ICB1	QC		2		7G21006		
1713088-ICV2	QC		3		7G20062		
1713088-ICB2	QC		4		7G21006		
1713088-TUN1	QC		5		7F24002		
1713088-CCV1	QC		6		7G21004		
1713088-CCV2	QC		7		7G21005		
1713088-CCV3	QC		8		7G21008		
1713088-CCB1	QC		9		7G21006		
1720018-12	gm8260w Full QC Navy	A	10			7G20040	Full SAP LIST
1720018-13	gm8260w Full QC Navy	A	11			7G20040	Full SAP LIST
1720018-14	gm8260w Full QC Navy	A	12			7G20040	Full SAP LIST
1719995-01	g8260w Full	A	13			7G20040	
1719849-09RE1	gm8260w Full QC Navy	B	14			7G20040	Full SAP LIST
1720247-01	g8260w BTXE	A	15			7G20040	
1720247-02	g8260w BTXE	A	16			7G20040	
1720247-03	g8260w BTXE	A	17			7G20040	
1720247-04	g8260w BTXE	A	18			7G20040	
1719995-02	g8260w Full	A	19			7G20040	
1719995-02	g8260w TICs	A	20			7G20040	
1719995-03	g8260w Full	A	21			7G20040	
1719995-03	g8260w TICs	A	22			7G20040	
1719995-04	g8260w Full	A	23			7G20040	
1719995-04	g8260w TICs	A	24			7G20040	
1719852-09	g8260w	A	25			7G20040	
1719852-34	g8260w	A	26			7G20040	
1720134-01	g8260w	C	27			7G20040	
1719890-01	g8260w Full	A	28			7G20040	Influent list w/Hexane, IPA, & Acetone
1720286-02	g8260w	A	29			7G20040	
B[G2055-BLK1	QC		30			7G20040	
1720029-16	g8260w Full3	A	31			7G20040	BatchQC
1720029-16	g8260w	A	32			7G20040	BatchQC
1720029-16	gm8260w Full QC Navy	A	33			7G20040	Full SAP LIST
B[G2055-BS1	QC		34			7G20040	
B[G2055-MS1	QC		35			7G20040	
B[G2055-MSD1	QC		36			7G20040	
1713088-TUN2	QC		37		7F24002		
1713088-CCV4	QC		38		7G21004		

ANALYSIS SEQUENCE

1713088

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713088-CCV5	QC		39		7G21005		
1713088-CCV6	QC		40		7G21008		
1713088-CCB2	QC		41		7G21006		
1719849-13	gm8260w Full QC Navy	A	42			7G20040	Full SAP LIST
1720029-01	gm8260w Full QC Navy	A	43			7G20040	Full SAP LIST
1720029-02	gm8260w Full QC Navy	A	44			7G20040	Full SAP LIST
1720029-03	gm8260w Full QC Navy	A	45			7G20040	Full SAP LIST
1720029-04	gm8260w Full QC Navy	A	46			7G20040	Full SAP LIST
1720029-06	gm8260w Full QC Navy	A	47			7G20040	Full SAP LIST
1720029-07	gm8260w Full QC Navy	A	48			7G20040	Full SAP LIST
1720029-08	gm8260w Full QC Navy	A	49			7G20040	Full SAP LIST
1720029-09	gm8260w Full QC Navy	A	50			7G20040	Full SAP LIST
1720029-10	gm8260w Full QC Navy	A	51			7G20040	Full SAP LIST
1720029-12	gm8260w Full QC Navy	A	52			7G20040	Full SAP LIST
1720029-13	gm8260w Full QC Navy	A	53			7G20040	Full SAP LIST
1720029-14	gm8260w Full QC Navy	A	54			7G20040	Full SAP LIST
1720029-15	gm8260w Full QC Navy	A	55			7G20040	Full SAP LIST
1720029-17	gm8260w Full QC Navy	A	56			7G20040	Full SAP LIST
1720029-18	gm8260w Full QC Navy	A	57			7G20040	Full SAP LIST
1720121-02	gm8260w Full QC Navy	A	58			7G20040	Full SAP LIST
1720121-03	gm8260w Full QC Navy	A	59			7G20040	Full SAP LIST
1720121-04	gm8260w Full QC Navy	A	60			7G20040	Full SAP LIST
1720121-05	gm8260w Full QC Navy	A	61			7G20040	Full SAP LIST
1720121-06	gm8260w Full QC Navy	A	62			7G20040	Full SAP LIST
1720121-07	gm8260w Full QC Navy	A	63			7G20040	Full SAP LIST
1720121-08	gm8260w Full QC Navy	A	64			7G20040	Full SAP LIST
1720121-09	gm8260w Full QC Navy	A	65			7G20040	Full SAP LIST
1713088-TUN3	QC		66		7F24002		
1713088-CCV7	QC		67		7G21004		
1713088-CCV8	QC		68		7G21005		
1713088-CCV9	QC		69		7G21008		
1713088-CCB3	QC		70		7G21006		
B[G2094-BLK1	QC		71			7G20040	
1720121-01	gm8260w Full QC Navy	A	72			7G20040	Full SAP LIST
1720121-01	g8260w Full	A	73			7G20040	BatchQC
1720121-01	g8260w Full3	A	74			7G20040	BatchQC
B[G2094-BS1	QC		75			7G20040	
B[G2094-MS1	QC		76			7G20040	
B[G2094-MSD1	QC		77			7G20040	

ANALYSIS SEQUENCE

1713088

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-05RE1	gm8260w Full QC Navy	B	78			7G20040	Full SAP LIST
1720349-04	g8260w Full3	A	79			7G20040	napthalene only
1720349-01	g8260w Full	A	80			7G20040	full scan,tpph
1720349-02	g8260w Full3	A	81			7G20040	napthalene only
1720349-03	g8260w Full3	A	82			7G20040	napthalene only
1719962-02	g8260w	B	83			7G20040	
1720279-01	g8260w	A	84			7G20040	
1720029-11RE1	gm8260w Full QC Navy	B	85			7G20040	Full SAP LIST
1720029-05	gm8260w Full QC Navy	A	86			7G20040	Full SAP LIST
1720029-11	gm8260w Full QC Navy	A	87			7G20040	Full SAP LIST
1719962-01	g8260w	B	88			7G20040	
1720121-10	gm8260w Full QC Navy	A	89			7G20040	Full SAP LIST
1720121-11	gm8260w Full QC Navy	A	90			7G20040	Full SAP LIST
1713088-TUN4	QC		91		7F24002		
1713088-CCVA	QC		92		7G21004		
1713088-CCVB	QC		93		7G21005		
1713088-CCVC	QC		94		7G21008		
1713088-CCB4	QC		95		7G21006		

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **WET**
Method: **EPA-160.1**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
26MW03_170720	1720018-01
26MW08_170720	1720018-02

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MANUAL

Analyte	DL	LOD	LOQ	Units
Total Dissolved Solids @ 180 C	10	10	10	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

26MW03_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-01
File ID:
Sampled: 07/20/17 13:50
Prepared: 07/26/17 12:00
Analyzed: 07/26/17 12:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[G2200
Sequence: 1713436
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	17000	1000	1000	1000	100	D	EPA-160.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-160.1

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02
File ID:
Sampled: 07/20/17 13:25
Prepared: 07/26/17 12:00
Analyzed: 07/26/17 12:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 100 ml / 100 ml
Batch: B[G2200
Sequence: 1713436
Calibration: UNASSIGNED
Instrument: MANUAL

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Dissolved Solids @ 180 C	18000	1000	1000	1000	100	D	EPA-160.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-160.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2200
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW03_170720	1720018-01		07/26/17 12:00	
26MW08_170720	1720018-02		07/26/17 12:00	
Blank	B[G2200-BLK1		07/26/17 12:00	
LCS	B[G2200-BS1		07/26/17 12:00	
26MW03_170720	B[G2200-DUP1		07/26/17 12:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-160.1

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2200-BLK1	File ID:	
Prepared:	07/26/17 12:00	Preparation:	No Prep	Initial/Final:	100 ml / 100 ml
Analyzed:	07/26/17 12:00	Instrument:	MANUAL		
Batch:	B[G2200	Sequence:	1713436	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Dissolved Solids @ 180 C	6.7	6.7	6.7	6.7	UD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

26MW03_170720

DUPLICATES
EPA-160.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G2200
Preparation: No Prep
Source Sample Name: 26MW03_170720

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G2200-DUP1
Lab Source ID: 1720018-01
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Dissolved Solids @ 180 C	10	17400		17000		2.33		EPA-160.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-160.1

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G2200	Laboratory ID:	B[G2200-BS1
Preparation:	No Prep	Initial/Final:	20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Dissolved Solids @ 180 C	586.00	600.00	102	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-160.1

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713436	Instrument:	MANUAL
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	B[G2200-BLK1		07/26/17 12:00
LCS	B[G2200-BS1		07/26/17 12:00
26MW03_170720	1720018-01		07/26/17 12:00
26MW03_170720	B[G2200-DUP1		07/26/17 12:00
26MW08_170720	1720018-02		07/26/17 12:00

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-160.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/26/17 12:00	6.00	7.00	07/26/17 12:00	6.00	7.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/26/17 12:00	6.00	7.00	07/26/17 12:00	6.00	7.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MANUAL

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2200

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1719970-01 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1719971-01 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1719972-01 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1719973-01 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1719986-01 I	iSM2540Cw TDS	7/26/2017 12:00PM	CAD	100	100					
1719995-02 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1719995-03 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1719995-04 D	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1720018-01 E	iSM2540Cw TDS	7/26/2017 12:00PM		100	100					
1720018-01 E	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
1720018-02 F	i160.1w TDS	7/26/2017 12:00PM	CAD	100	100					
B[G2200-BLK1	QC	7/26/2017 12:00PM	CAD	100	100					
B[G2200-BS1	QC	7/26/2017 12:00PM	CAD	20	20	7F28063		20000		
B[G2200-DUP1	QC	7/26/2017 12:00PM	CAD	100	100		1720018-01			

Spike Mixes	Description	Solvent	Prepared	Expires
7F28063	TDS LCSW WORKING	H20 (DI)	6/28/2017 by Carla De la Torre	12/28/2017

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1713436

Instrument: MANUAL
Calibration ID:
Sequence Date: 07/26/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[G2200-BLK1	QC		1				
B[G2201-BLK1	QC		2				
B[G2200-BS1	QC		3				
1720018-01	i160.1w TDS	E	4				
1720018-01	iSM2540Cw TDS	E	4				BatchQC
B[G2200-DUP1	QC		5				
1720018-02	i160.1w TDS	F	6				
1719970-01	i160.1w TDS	D	7				
1719971-01	i160.1w TDS	D	8				
1719972-01	i160.1w TDS	D	9				
1719973-01	i160.1w TDS	D	10				
1719986-01	iSM2540Cw TDS	I	11				
1719995-02	i160.1w TDS	D	12				
1719995-03	i160.1w TDS	D	13				
1719995-04	i160.1w TDS	D	14				
B[G2201-BS1	QC		15				
1720143-01	i160.1w TDS	B	16				BatchQC
1720143-01	iSM2540Cw TDS	B	16				
B[G2201-DUP1	QC		17				
1720021-01	iSM2540Cw TDS	H	18				
1720021-02	iSM2540Cw TDS	H	19				
1720021-04	iSM2540Cw TDS	H	20				
1720021-05	iSM2540Cw TDS	H	21				
1720021-06	iSM2540Cw TDS	H	22				
1720021-07	iSM2540Cw TDS	H	23				
1720021-08	iSM2540Cw TDS	H	24				
1720021-09	iSM2540Cw TDS	H	25				
1719968-01	i160.1w TDS	D	26				

BC LABORATORIES, INC.

Solids Logbook

☑ W-TDS-ALL ☐ W-TOTAL-SOLIDS-ALL ☐ VOLATILES

Date: 07/26/17	Analyst: CAD	QC #1 RPD	Reviewed by:	LCSW ID: BW062817	Batch # BCG 2200	Oven Temp. 180
Run# 01	Time: 12:00	PQL: 10 mg/l	QC #2 RPD	Date Reviewed:	Comments:	Batch # BCG 2201	Oven # 16
		Balance # 25		TDS		Sequence # 1713436	TH# 203

Samp. #	Lab ID #	EC	mls	Beg. wt. #1	#2	Final Wt. #1	#2	#3	#4
Prep ~~A1~~	BLK		100	1.8358		1.8360	1.8356		
LCS ~~A2~~	BS1		20	1.8165		1.8287	1.8285		
1. ~~A3~~	20018-01 E	26420	1	1.8230		1.8401	1.8404		
1. Dup ~~A4~~	DUP	26420	1	1.8248		1.8419	1.8418		
2. ~~A5~~	02 F	28400	1	1.8869		1.9043	1.9046		
3. ~~A6~~	19970-01D	7380	2	1.8511		1.8603	1.8606		
4. ~~A7~~	19971-01D	6400	5	1.8769		1.9012	1.9017	500	1.8991
5. ~~A8~~	19972-01D	1967	20	1.8729		1.8999	1.9004		
6. ~~A9~~	19973-01D	1438	20	1.8744		1.8989	1.8984	500	1.8938
7. ~~A10~~	19986-01 I	479	50	1.8896		1.9051	1.9054		
8. ~~A11~~	19995-02 P	12800	2	1.8812		1.8935	1.8940		
9. ~~A12~~	03 P	15200	2	1.8666		1.8852	1.8849		
10. ~~A13~~	04 P	9440	2	1.8261		1.8368	1.8367		
LCS ~~A14~~	BS2		20	1.8567		1.8688	1.8685		
11. ~~A15~~	20143-01B	2143	10	1.8321		1.8438	1.8443		
11. Dup ~~A16~~	DUP	2143	10	1.8297		1.8417	1.8422		
12. ~~A17~~	20021-01 H	1058	30	1.8377		1.8575	1.8576		
13. ~~A18~~	02 H	677	50	1.8133		1.8365	1.8362		
14. ~~A19~~	04 H	661	50	1.8872		1.9087	1.9087		
15. ~~A20~~	05 H	981	30	1.8365		1.8563	1.8562		
16. ~~A21~~	06 H	479	50	1.8608		1.8784	1.8784		
17. ~~A22~~	07 H	526	50	1.8302		1.8495	1.8497		
18 ~~A23~~	08 H	676	50	1.8207		1.8432	1.8434		
19. ~~A24~~	09 H	612	50	1.8266		1.8472	1.8469		
20. ~~A25~~	19968-01D	2426	100	~~1.8502~~ 7/27 7/25	4.0219	4.0236	4.0239		

BC LABORATORIES, INC

BALANCE LOGBOOK

Balance # 25	PDL # 10	Type: Analytical # 8	Troemner Serial # 4000014590/27365
Made: Mettler Toledo			Model: AB204-S
Serial:1128300138			Month: July / Year: 2017

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
0.1005g																															
0.1004g																															
0.1003g																															
0.1002g																															
0.1001g						X							X																		
0.1000g			X		X										X																
0.0999g				X						X	X			X			X	X		X	X				X		X	X	X	X	X
0.0998g		X																	X							X					
0.0997g	X								X			X				X								X							
0.0996g							X	X														X	X								
0.0995g																															
200.0013g																															
200.0012g																															
200.0011g																															
200.0010g						X																									
200.0009g																															
200.0008g																															
200.0007g							X																								
200.0006g								X	X																						
200.0005g																															
200.0004g																															
200.0003g					X							X								X											
200.0002g																		X													
200.0001g											X			X	X	X							X				X		X	X	
200.0000g																			X		X	X		X							
199.9999g		X	X	X									X															X			
199.9998g																															
199.9997g																	X									X					X
199.9996g	X																														
199.9995g										X															X						
199.9994g																															
199.9993g																															
199.9992g																															
199.9991g																															
199.9990g																															
199.9989g																															
199.9988g																															
199.9987g																															
199.9986g																															

DAY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
INIT	[illegible]	[illegible]	[illegible]	[illegible]	CLS	CLS	CLS	[illegible]	[illegible]	CLS	CLS	CLS	CLS	CLS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	CLS

UPPER CONTROL LIMIT: 0.1005g
UPPER CONTROL LIMIT: 200.0005g
LOWER CONTROL LIMIT: 0.0995 g
LOWER CONTROL LIMIT: 199.9995g

Note: Used 100mg = 0.1g (Acceptance Limit between 0.1005g and 0.0995g)

S:WPDOCS\WordPerfect\LAB_DOCS\LOGBOOK\BALNCL25LG

Page ____ of 12

Note: **This balance is monitor on weekends. Check list on back of logbook.**

BC Laboratories, Inc, Page 802 of 1211

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported:	8/21/2017 11:47:01AM
Project:	Alameda
Project Number:	5023146096
Project Manager:	Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG:	**17-20018**
Class:	**WET**
Method:	**EPA-300.0**

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
26MW03_170720	1720018-01
26MW08_170720	1720018-02
26MW08_170720	1720018-02RE1
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-17R_170720	1720018-08RE2
M14-18_170720	1720018-09
M14-18_170720	1720018-09RE2
M14-18_170720	1720018-09RE3
M14-20D_170720	1720018-10
M14-20D_170720	1720018-10RE1
M14-21_170720	1720018-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: IC1

Analyte	DL	LOD	LOQ	Units
Chloride	0.077	0.1	0.5	mg/L
Nitrate as NO3	0.092	0.23	0.44	mg/L
Nitrate as N	0.021	0.05	0.1	mg/L
Sulfate	0.13	0.2	1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26MW03_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-01
File ID: A072117A.seq-05
Sampled: 07/20/17 13:50
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 02:21
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	8700	3.8	5.0	25	50	D	EPA-300.0
14797-55-8	Nitrate as N	2.5	1.0	2.5	5.0	50	UD	EPA-300.0
14808-79-8	Sulfate	340	6.5	10	50	50	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02
File ID: A072117A.seq-06
Sampled: 07/20/17 13:25
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 02:39
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	2.5	1.0	2.5	5.0	50	UD	EPA-300.0
14808-79-8	Sulfate	21	6.5	10	50	50	JD	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02RE1
File ID: A072817.seq-18
Sampled: 07/20/17 13:25
Prepared: 07/28/17 15:00
Analyzed: 07/28/17 20:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G2477
Sequence: 1713497
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	10000	7.7	10	50	100	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID: A072117A.seq-07
Sampled: 07/20/17 08:35
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 02:57
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	510	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	1700	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID: A072117A.seq-08
Sampled: 07/20/17 10:55
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 03:14
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	21	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	1100	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-09S_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-06
File ID: A072117A.seq-09
Sampled: 07/20/17 12:35
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 03:32
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	7.9	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	1	U	EPA-300.0
14808-79-8	Sulfate	150	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID: A072117A.seq-10
Sampled: 07/20/17 09:40
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 03:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	27	0.15	0.20	1.0	2	D	EPA-300.0
14797-55-8	Nitrate as N	0.10	0.042	0.10	0.20	2	UD	EPA-300.0
14808-79-8	Sulfate	550	0.26	0.40	2.0	2	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID: A072117A.seq-11
Sampled: 07/20/17 13:30
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 04:07
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	720	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08RE2
File ID: A072117A.seq-55
Sampled: 07/20/17 13:30
Prepared: 07/22/17 01:00
Analyzed: 07/23/17 19:59
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14808-79-8	Sulfate	2200	1.3	2.0	10	10	D	EPA-300.0

AMEC Environmental & Infrastructure-
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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID: A072117A.seq-12
Sampled: 07/20/17 12:00
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 04:24
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09RE2
File ID: A080117A.seq-46
Sampled: 07/20/17 12:00
Prepared: 08/01/17 23:00
Analyzed: 08/02/17 10:16
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[H0114
Sequence: 1713762
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14808-79-8	Sulfate	1900	1.3	2.0	10	10	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09RE3
File ID: A080117A.seq-47
Sampled: 07/20/17 12:00
Prepared: 08/01/17 23:00
Analyzed: 08/02/17 10:34
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[H0114
Sequence: 1713762
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	64	0.38	0.50	2.5	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID: A072117A.seq-15
Sampled: 07/20/17 11:15
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 05:17
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	650	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10RE1
File ID: A072117A.seq-54
Sampled: 07/20/17 11:15
Prepared: 07/22/17 01:00
Analyzed: 07/23/17 19:42
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14808-79-8	Sulfate	2200	1.3	2.0	10	10	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID: A072117A.seq-16
Sampled: 07/20/17 10:20
Prepared: 07/22/17 01:00
Analyzed: 07/22/17 05:34
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1814
Sequence: 1713201
Calibration: UNASSIGNED
Instrument: IC1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	85	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	800	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1814
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW03_170720	1720018-01	A072117A.seq-05	07/22/17 01:00	
26MW08_170720	1720018-02	A072117A.seq-06	07/22/17 01:00	
M14-06_170720	1720018-04	A072117A.seq-07	07/22/17 01:00	
M14-09D_170720	1720018-05	A072117A.seq-08	07/22/17 01:00	
M14-09S_170720	1720018-06	A072117A.seq-09	07/22/17 01:00	
M14-14_170720	1720018-07	A072117A.seq-10	07/22/17 01:00	
M14-17R_170720	1720018-08	A072117A.seq-11	07/22/17 01:00	
M14-17R_170720	1720018-08RE2	A072117A.seq-55	07/22/17 01:00	Added 7/26/2017 by JSW
M14-18_170720	1720018-09	A072117A.seq-12	07/22/17 01:00	
M14-20D_170720	1720018-10	A072117A.seq-15	07/22/17 01:00	
M14-20D_170720	1720018-10RE1	A072117A.seq-54	07/22/17 01:00	Added 7/26/2017 by JSW
M14-21_170720	1720018-11	A072117A.seq-16	07/22/17 01:00	
Blank	B[G1814-BLK1	A072117A.seq-03	07/22/17 01:00	
LCS	B[G1814-BS1	A072117A.seq-04	07/22/17 01:00	
M14-17R_170720	B[G1814-DUP1	A072117A.seq-56	07/22/17 01:00	
M14-17R_170720	B[G1814-MS1	A072117A.seq-57	07/22/17 01:00	
M14-17R_170720	B[G1814-MSD1	A072117A.seq-58	07/22/17 01:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2477
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW08_170720	1720018-02RE1	A072817.seq-18	07/28/17 15:00	Re-extract added 7/27/2017 by TMS
Blank	B[G2477-BLK1	A072817.seq-03	07/28/17 15:00	
LCS	B[G2477-BS1	A072817.seq-04	07/28/17 15:00	
Duplicate	B[G2477-DUP1	A072817.seq-15	07/28/17 15:00	
Matrix Spike	B[G2477-MS1	A072817.seq-16	07/28/17 15:00	
Matrix Spike Dup	B[G2477-MSD1	A072817.seq-17	07/28/17 15:00	

AMEC Environmental & Infrastructure-
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Project: Alameda
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Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[H0114
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
M14-18_170720	1720018-09RE2	A080117A.seq-46	08/01/17 23:00	Re-extract added 8/1/2017 by TMS
M14-18_170720	1720018-09RE3	A080117A.seq-47	08/01/17 23:00	Re-extract added 8/1/2017 by TMS
Blank	B[H0114-BLK1	A080117A.seq-34	08/01/17 23:00	
LCS	B[H0114-BS1	A080117A.seq-35	08/01/17 23:00	
Duplicate	B[H0114-DUP1	A080117A.seq-39	08/01/17 23:00	
Matrix Spike	B[H0114-MS1	A080117A.seq-40	08/01/17 23:00	
Matrix Spike Dup	B[H0114-MSD1	A080117A.seq-41	08/01/17 23:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1814-BLK1	File ID:	A072117A.seq-03
Prepared:	07/22/17 01:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/22/17 01:46	Instrument:	IC1		
Batch:	B[G1814	Sequence:	1713201	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.16500	0.077	0.10	0.50	J
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.13	0.20	1.0	U

AMEC Environmental & Infrastructure-
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Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2477-BLK1	File ID:	A072817.seq-03
Prepared:	07/28/17 15:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/28/17 16:26	Instrument:	IC1		
Batch:	B[G2477	Sequence:	1713497	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.077	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.13	0.20	1.0	U

AMEC Environmental & Infrastructure-
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Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[H0114-BLK1	File ID:	A080117A.seq-34
Prepared:	08/01/17 23:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	08/02/17 06:46	Instrument:	IC1		
Batch:	B[H0114	Sequence:	1713762	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.077	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.13	0.20	1.0	U

AMEC Environmental & Infrastructure-
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Project Number: 5023146096
Project Manager: Kevin Olness

M14-17R_170720

DUPLICATES
EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1814
Preparation: No Prep
Source Sample Name: M14-17R_170720

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G1814-DUP1
Lab Source ID: 1720018-08RE2
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	749.86		754.30		0.590		EPA-300.0
Nitrate as NO3	10	0.0000		ND				EPA-300.0
Nitrate as N	10	0.0000		ND				EPA-300.0
Sulfate	10	2167.4		2179.7		0.565		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Duplicate

DUPLICATES

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G2477
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G2477-DUP1
Lab Source ID: 1720785-01
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	17.849		17.889		0.224		EPA-300.0
Nitrate as NO3	10	29.257		29.540		0.964		EPA-300.0
Nitrate as N	10	6.6090		6.6730		0.964		EPA-300.0
Sulfate	10	21.320		21.366		0.216		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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Duplicate

DUPLICATES

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[H0114
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-20018
Project: Alameda
Laboratory ID: B[H0114-DUP1
Lab Source ID: 1721107-01
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	60.662		60.788		0.207		EPA-300.0
Nitrate as NO3	10	26.251		26.517		1.01		EPA-300.0
Nitrate as N	10	5.9300		5.9900		1.01		EPA-300.0
Sulfate	10	68.874		68.835		0.0566		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1814
Laboratory ID: B[G1814-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1720018-08RE2

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	505.05	749.86	1279.3	105	80 - 120
Nitrate as NO3	223.58	ND	226.53	101	80 - 120
Nitrate as N	50.505	ND	51.172	101	80 - 120
Sulfate	1010.1	2167.4	3194.1	102	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	505.05	1282.1	105	0.221	10	80 - 120
Nitrate as NO3	223.58	226.57	101	0.0197	10	80 - 120
Nitrate as N	50.505	51.182	101	0.0197	10	80 - 120
Sulfate	1010.1	3201.8	102	0.239	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2477
Laboratory ID: B[G2477-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1720785-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	50.505	17.849	72.788	109	80 - 120
Nitrate as NO3	22.358	29.257	52.603	104	80 - 120
Nitrate as N	5.0505	6.6090	11.883	104	80 - 120
Sulfate	101.01	21.320	128.31	106	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	50.505	72.932	109	0.198	10	80 - 120
Nitrate as NO3	22.358	52.719	105	0.221	10	80 - 120
Nitrate as N	5.0505	11.909	105	0.221	10	80 - 120
Sulfate	101.01	128.42	106	0.0866	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[H0114
Laboratory ID: B[H0114-MS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Source Sample Number: 1721107-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	50.000	60.662	113.55	106	80 - 120
Nitrate as NO3	22.134	26.251	49.385	105	80 - 120
Nitrate as N	5.0000	5.9300	11.156	105	80 - 120
Sulfate	100.00	68.874	178.05	109	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	50.000	113.68	106	0.109	10	80 - 120
Nitrate as NO3	22.134	49.208	104	0.359	10	80 - 120
Nitrate as N	5.0000	11.116	104	0.359	10	80 - 120
Sulfate	100.00	177.68	109	0.205	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1814
Laboratory ID: B[G1814-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	49.458	98.9	90 - 110
Nitrate as NO3	22.134	21.793	98.5	90 - 110
Nitrate as N	5.0000	4.9230	98.5	90 - 110
Sulfate	100.00	98.401	98.4	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2477
Laboratory ID: B[G2477-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	51.327	103	90 - 110
Nitrate as NO3	22.134	22.709	103	90 - 110
Nitrate as N	5.0000	5.1300	103	90 - 110
Sulfate	100.00	101.89	102	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[H0114
Laboratory ID: B[H0114-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	51.948	104	90 - 110
Nitrate as NO3	22.134	22.842	103	90 - 110
Nitrate as N	5.0000	5.1600	103	90 - 110
Sulfate	100.00	103.94	104	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713201
Instrument: IC1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713201-ICV1	A072117A.seq-01	07/22/17 01:11
Initial Cal Blank	1713201-ICB1	A072117A.seq-02	07/22/17 01:29
Blank	B[G1814-BLK1	A072117A.seq-03	07/22/17 01:46
LCS	B[G1814-BS1	A072117A.seq-04	07/22/17 02:04
26MW03_170720	1720018-01	A072117A.seq-05	07/22/17 02:21
26MW08_170720	1720018-02	A072117A.seq-06	07/22/17 02:39
M14-06_170720	1720018-04	A072117A.seq-07	07/22/17 02:57
M14-09D_170720	1720018-05	A072117A.seq-08	07/22/17 03:14
M14-09S_170720	1720018-06	A072117A.seq-09	07/22/17 03:32
M14-14_170720	1720018-07	A072117A.seq-10	07/22/17 03:49
M14-17R_170720	1720018-08	A072117A.seq-11	07/22/17 04:07
M14-18_170720	1720018-09	A072117A.seq-12	07/22/17 04:24
Calibration Check	1713201-CCV1	A072117A.seq-13	07/22/17 04:42
Calibration Blank	1713201-CCB1	A072117A.seq-14	07/22/17 04:59
M14-20D_170720	1720018-10	A072117A.seq-15	07/22/17 05:17
M14-21_170720	1720018-11	A072117A.seq-16	07/22/17 05:34
Calibration Check	1713201-CCV2	A072117A.seq-25	07/22/17 08:12
Calibration Blank	1713201-CCB2	A072117A.seq-26	07/22/17 08:29
Calibration Check	1713201-CCV3	A072117A.seq-31	07/22/17 09:57
Calibration Blank	1713201-CCB3	A072117A.seq-32	07/22/17 10:15
Calibration Check	1713201-CCV4	A072117A.seq-39	07/22/17 12:17
Calibration Blank	1713201-CCB4	A072117A.seq-40	07/22/17 12:35
Calibration Check	1713201-CCV5	A072117A.seq-41	07/22/17 12:52
Calibration Blank	1713201-CCB5	A072117A.seq-42	07/22/17 13:10
Calibration Check	1713201-CCV6	A072117A.seq-48	07/22/17 14:55
Calibration Blank	1713201-CCB6	A072117A.seq-49	07/22/17 15:12

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713201	Instrument:	IC1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713201-CCV7	A072117A.seq-52	07/23/17 19:07
Calibration Blank	1713201-CCB7	A072117A.seq-53	07/23/17 19:24
M14-20D_170720	1720018-10RE1	A072117A.seq-54	07/23/17 19:42
M14-17R_170720	1720018-08RE2	A072117A.seq-55	07/23/17 19:59
M14-17R_170720	B[G1814-DUP1	A072117A.seq-56	07/23/17 20:17
M14-17R_170720	B[G1814-MS1	A072117A.seq-57	07/23/17 20:34
M14-17R_170720	B[G1814-MSD1	A072117A.seq-58	07/23/17 20:52
Calibration Check	1713201-CCV8	A072117A.seq-59	07/23/17 21:09
Calibration Blank	1713201-CCB8	A072117A.seq-60	07/23/17 21:27

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713497
Instrument: IC1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713497-ICV1	A072817.seq-01	07/28/17 15:51
Initial Cal Blank	1713497-ICB1	A072817.seq-02	07/28/17 16:09
Blank	B[G2477-BLK1	A072817.seq-03	07/28/17 16:26
LCS	B[G2477-BS1	A072817.seq-04	07/28/17 16:44
Calibration Check	1713497-CCV1	A072817.seq-13	07/28/17 19:21
Calibration Blank	1713497-CCB1	A072817.seq-14	07/28/17 19:39
Duplicate	B[G2477-DUP1	A072817.seq-15	07/28/17 19:56
Matrix Spike	B[G2477-MS1	A072817.seq-16	07/28/17 20:14
Matrix Spike Dup	B[G2477-MSD1	A072817.seq-17	07/28/17 20:31
26MW08_170720	1720018-02RE1	A072817.seq-18	07/28/17 20:49
Calibration Check	1713497-CCV2	A072817.seq-25	07/28/17 22:52
Calibration Blank	1713497-CCB2	A072817.seq-26	07/28/17 23:09
Calibration Check	1713497-CCV3	A072817.seq-37	07/29/17 02:22
Calibration Blank	1713497-CCB3	A072817.seq-38	07/29/17 02:39
Calibration Check	1713497-CCV4	A072817.seq-44	07/29/17 04:25
Calibration Blank	1713497-CCB4	A072817.seq-45	07/29/17 04:42

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713762
Instrument: IC1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713762-ICV1	A080117A.seq-01	08/01/17 21:08
Initial Cal Blank	1713762-ICB1	A080117A.seq-02	08/01/17 21:25
Calibration Check	1713762-CCV1	A080117A.seq-13	08/02/17 00:38
Calibration Blank	1713762-CCB1	A080117A.seq-14	08/02/17 00:55
Calibration Check	1713762-CCV2	A080117A.seq-25	08/02/17 04:08
Calibration Blank	1713762-CCB2	A080117A.seq-26	08/02/17 04:26
Blank	B[H0114-BLK1	A080117A.seq-34	08/02/17 06:46
LCS	B[H0114-BS1	A080117A.seq-35	08/02/17 07:03
Calibration Check	1713762-CCV3	A080117A.seq-37	08/02/17 07:38
Calibration Blank	1713762-CCB3	A080117A.seq-38	08/02/17 07:56
Duplicate	B[H0114-DUP1	A080117A.seq-39	08/02/17 08:13
Matrix Spike	B[H0114-MS1	A080117A.seq-40	08/02/17 08:31
Matrix Spike Dup	B[H0114-MSD1	A080117A.seq-41	08/02/17 08:48
M14-18_170720	1720018-09RE2	A080117A.seq-46	08/02/17 10:16
M14-18_170720	1720018-09RE3	A080117A.seq-47	08/02/17 10:34
Calibration Check	1713762-CCV4	A080117A.seq-49	08/02/17 11:09
Calibration Blank	1713762-CCB4	A080117A.seq-50	08/02/17 11:26
Calibration Check	1713762-CCV5	A080117A.seq-52	08/02/17 12:01
Calibration Blank	1713762-CCB5	A080117A.seq-53	08/02/17 12:19

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Project: Alameda
Sequence: 1713201
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713201-ICB1	Chloride	0.18300	0.077		0.50	mg/L	J	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.24300	0.13		1.0	mg/L	J	EPA-300.0
1713201-CCB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713201-CCB2	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713201-CCB3	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713201-CCB4	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713201-CCB5	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713201-CCB6	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Project: Alameda
Sequence: 1713201
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713201-CCB7	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713201-CCB8	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0

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Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Project: Alameda
Sequence: 1713497
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713497-ICB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713497-CCB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713497-CCB2	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713497-CCB3	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713497-CCB4	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Project: Alameda
Sequence: 1713762
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713762-ICB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713762-CCB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713762-CCB2	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713762-CCB3	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713762-CCB4	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713762-CCB5	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713201

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713201-ICV1	Chloride	50.000	50.857	102	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.200	100	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0150	100	mg/L	EPA-300.0
	Sulfate	100.00	97.712	97.7	mg/L	EPA-300.0
1713201-CCV1	Chloride	50.000	50.160	100	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.855	98.7	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9370	98.7	mg/L	EPA-300.0
	Sulfate	100.00	100.15	100	mg/L	EPA-300.0
1713201-CCV2	Chloride	50.000	49.660	99.3	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.651	97.8	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8910	97.8	mg/L	EPA-300.0
	Sulfate	100.00	99.310	99.3	mg/L	EPA-300.0
1713201-CCV3	Chloride	50.000	49.657	99.3	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.682	98.0	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8980	98.0	mg/L	EPA-300.0
	Sulfate	100.00	98.720	98.7	mg/L	EPA-300.0
1713201-CCV4	Chloride	50.000	49.335	98.7	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.510	97.2	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8590	97.2	mg/L	EPA-300.0
	Sulfate	100.00	98.270	98.3	mg/L	EPA-300.0
1713201-CCV5	Chloride	50.000	49.526	99.1	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.753	98.3	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9140	98.3	mg/L	EPA-300.0
	Sulfate	100.00	98.392	98.4	mg/L	EPA-300.0
1713201-CCV6	Chloride	50.000	49.479	99.0	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.532	97.3	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8640	97.3	mg/L	EPA-300.0
	Sulfate	100.00	98.252	98.3	mg/L	EPA-300.0
1713201-CCV7	Chloride	50.000	50.860	102	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.860	98.8	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9380	98.8	mg/L	EPA-300.0

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713201

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713201-CCV7	Sulfate	100.00	99.922	99.9	mg/L	EPA-300.0
1713201-CCV8	Chloride	50.000	49.798	99.6	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.855	98.7	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9370	98.7	mg/L	EPA-300.0
	Sulfate	100.00	99.338	99.3	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713497

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713497-ICV1	Chloride	50.000	48.998	98.0	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.585	97.5	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8760	97.5	mg/L	EPA-300.0
	Sulfate	100.00	96.216	96.2	mg/L	EPA-300.0
1713497-CCV1	Chloride	50.000	52.087	104	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.639	102	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.1140	102	mg/L	EPA-300.0
	Sulfate	100.00	103.13	103	mg/L	EPA-300.0
1713497-CCV2	Chloride	50.000	49.932	99.9	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.913	99.0	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9500	99.0	mg/L	EPA-300.0
	Sulfate	100.00	98.679	98.7	mg/L	EPA-300.0
1713497-CCV3	Chloride	50.000	49.795	99.6	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.948	99.2	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9580	99.2	mg/L	EPA-300.0
	Sulfate	100.00	99.560	99.6	mg/L	EPA-300.0
1713497-CCV4	Chloride	50.000	49.029	98.1	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.643	97.8	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.8890	97.8	mg/L	EPA-300.0
	Sulfate	100.00	97.471	97.5	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC1
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713762

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713762-ICV1	Chloride	50.000	50.596	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.316	101	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0410	101	mg/L	EPA-300.0
	Sulfate	100.00	99.214	99.2	mg/L	EPA-300.0
1713762-CCV1	Chloride	50.000	50.459	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.174	100	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0090	100	mg/L	EPA-300.0
	Sulfate	100.00	100.82	101	mg/L	EPA-300.0
1713762-CCV2	Chloride	50.000	50.354	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.107	99.9	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9940	99.9	mg/L	EPA-300.0
	Sulfate	100.00	99.646	99.6	mg/L	EPA-300.0
1713762-CCV3	Chloride	50.000	50.130	100	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.214	100	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0180	100	mg/L	EPA-300.0
	Sulfate	100.00	102.41	102	mg/L	EPA-300.0
1713762-CCV4	Chloride	50.000	49.989	100	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.913	99.0	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9500	99.0	mg/L	EPA-300.0
	Sulfate	100.00	99.258	99.3	mg/L	EPA-300.0
1713762-CCV5	Chloride	50.000	50.353	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.103	99.9	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9930	99.9	mg/L	EPA-300.0
	Sulfate	100.00	99.856	99.9	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 02:21	2.00	28.00	
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/22/17 01:00	1.52	2.00	07/22/17 02:21	1.52	2.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/22/17 01:00	1.55	2.00	07/22/17 02:39	1.55	2.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 02:39	2.00	28.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/28/17 15:00	8.00	28.00	07/28/17 20:49	8.00	28.00	
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/22/17 01:00	1.77	2.00	07/22/17 02:57	1.77	2.00	
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 02:57	2.00	28.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/22/17 01:00	1.68	2.00	07/22/17 03:14	1.68	2.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 03:14	2.00	28.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/22/17 01:00	1.62	2.00	07/22/17 03:32	1.62	2.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 03:32	2.00	28.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 03:49	2.00	28.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/22/17 01:00	1.76	2.00	07/22/17 03:49	1.76	2.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 04:07	2.00	28.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/22/17 01:00	1.61	2.00	07/22/17 04:07	1.61	2.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/22/17 01:00	3.00	28.00	07/23/17 19:59	3.00	28.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/22/17 01:00	1.68	2.00	07/22/17 04:24	1.68	2.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	08/01/17 23:00	13.00	28.00	08/02/17 10:16	13.00	28.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	08/01/17 23:00	13.00	28.00	08/02/17 10:34	13.00	28.00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/22/17 01:00	1.75	2.00	07/22/17 05:17	1.75	2.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 05:17	2.00	28.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/22/17 01:00	3.00	28.00	07/23/17 19:42	3.00	28.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/22/17 01:00	1.80	2.00	07/22/17 05:34	1.80	2.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/22/17 01:00	2.00	28.00	07/22/17 05:34	2.00	28.00	

* Holding time not met

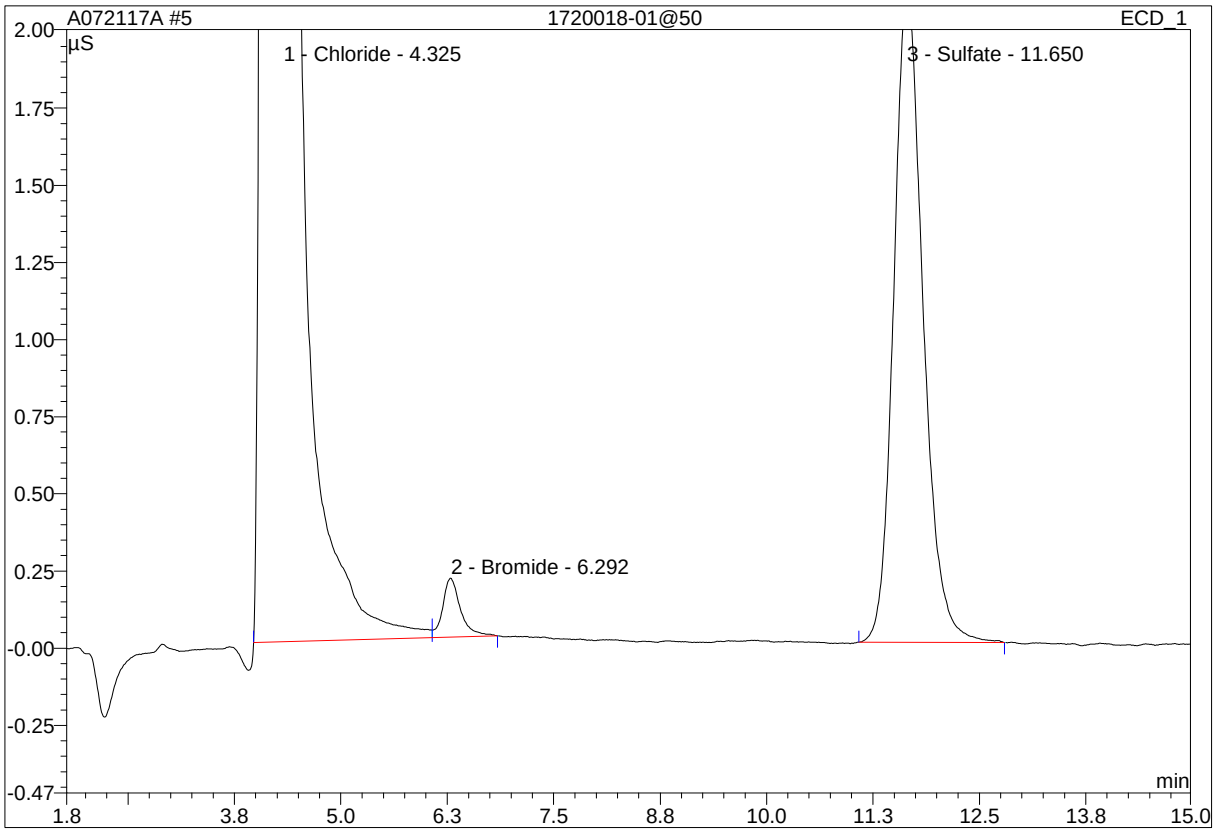
Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument IC1

Raw Data - Samples

5 1720018-01@50

Sample Name:	**1720018-01@50**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 2:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



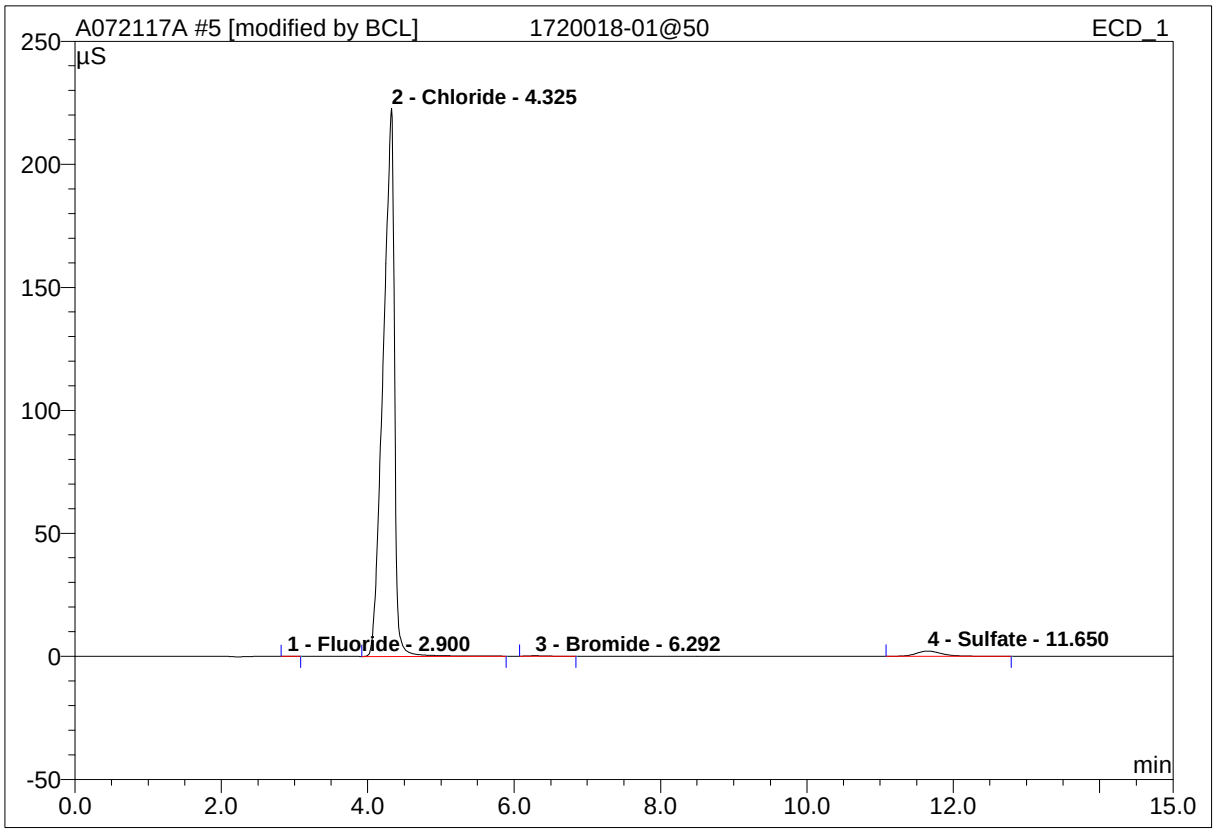
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.33	Chloride	222.732	39.624	97.80	173.869	BM
2	6.29	Bromide	0.191	0.047	0.11	0.778	MB
3	11.65	Sulfate	2.121	0.845	2.09	6.741	BMB
Total:			225.044	40.515	100.00	181.388	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 1720018-01@50

Sample Name:	**1720018-01@50**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 2:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



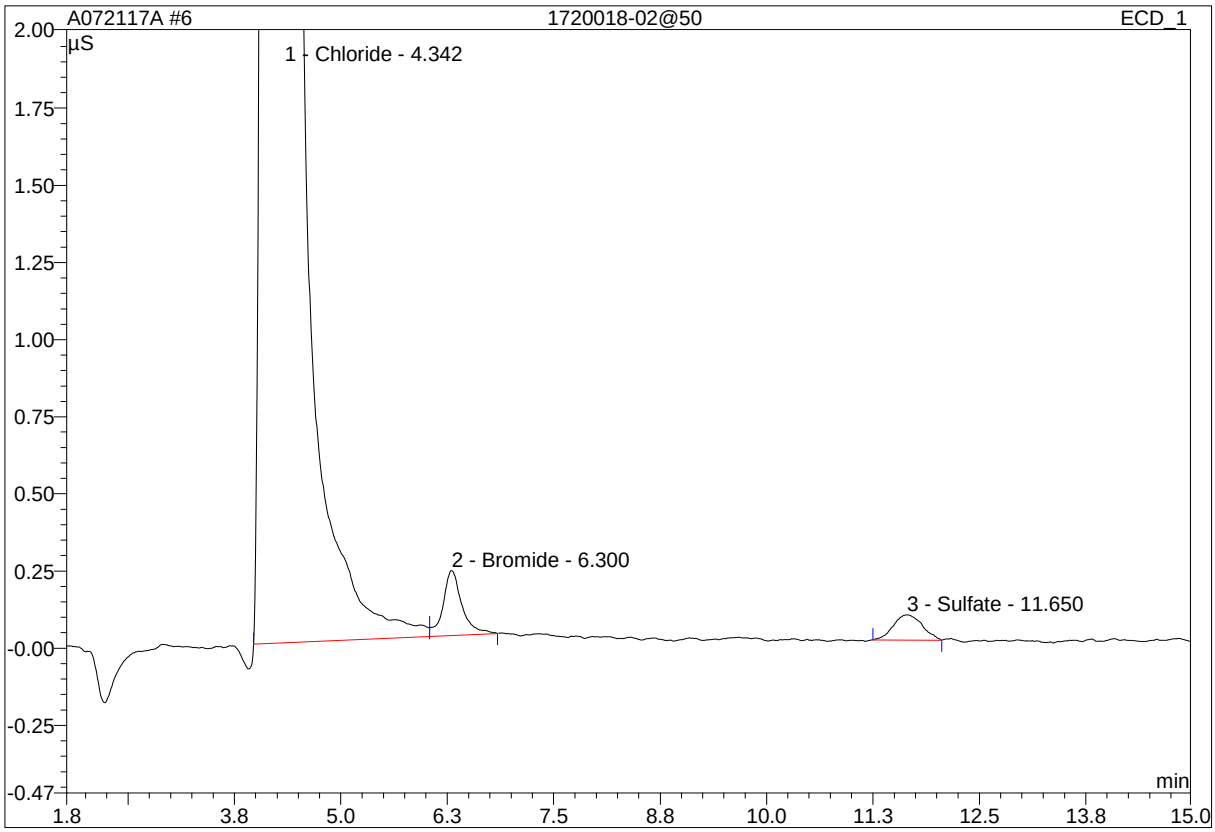
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.023	0.003	0.01	0.023	BMB*
2	4.33	Chloride	222.797	39.673	97.82	174.055	BMB*
3	6.29	Bromide	0.174	0.037	0.09	0.626	BMB*
4	11.65	Sulfate	2.121	0.845	2.08	6.741	BMB
Total:			225.114	40.558	100.00	181.446	

modified on: 07.23.17 18:17 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 1720018-02@50

Sample Name:	**1720018-02@50**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 2:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



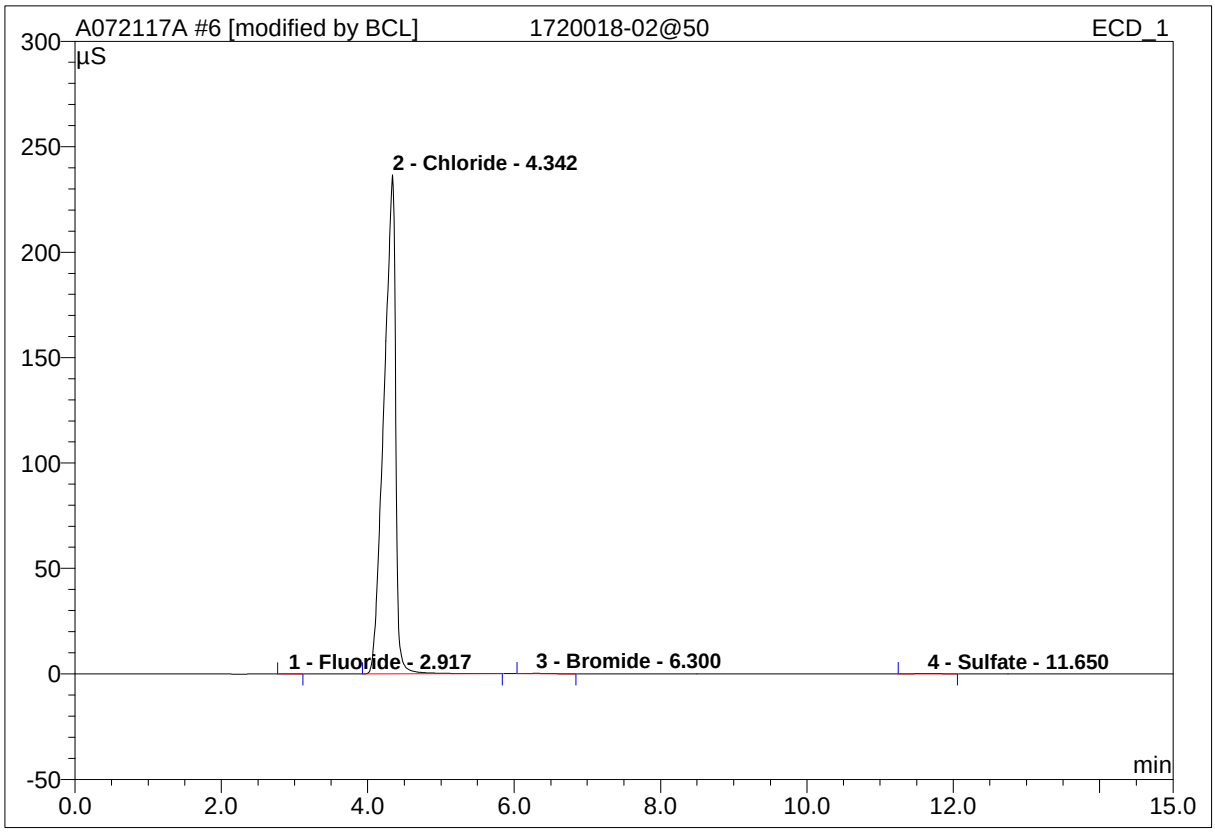
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.34	Chloride	236.668	43.781	99.80	189.274	BM
2	6.30	Bromide	0.210	0.054	0.12	0.900	MB
3	11.65	Sulfate	0.082	0.032	0.07	0.425	BMB
Total:			236.960	43.867	100.00	190.598	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 1720018-02@50

Sample Name:	**1720018-02@50**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 2:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



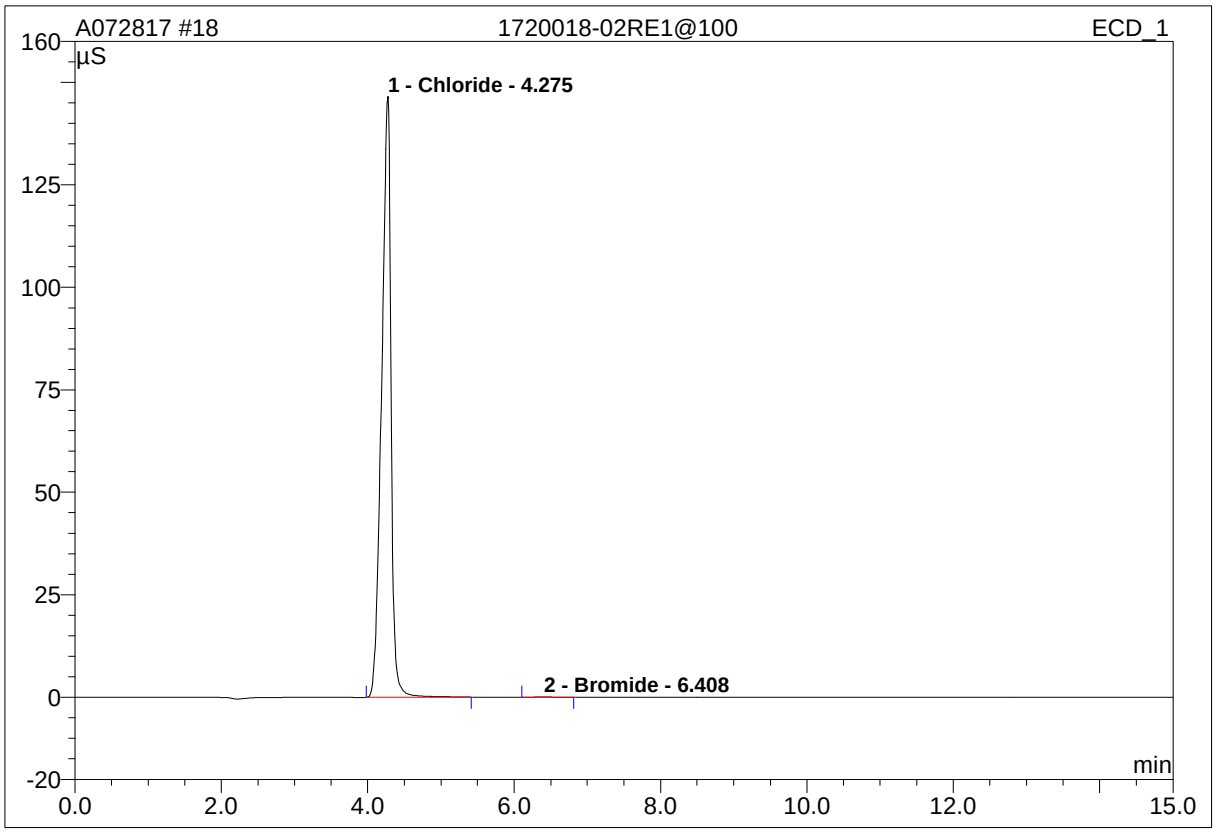
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	0.013	0.002	0.00	0.020	BMB*
2	4.34	Chloride	236.722	43.810	99.83	189.381	BMB*
3	6.30	Bromide	0.191	0.043	0.10	0.715	BMB*
4	11.65	Sulfate	0.082	0.032	0.07	0.425	BMB
Total:			237.008	43.887	100.00	190.540	

modified on: 07.23.17 18:17 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

18 1720018-02RE1@100

Sample Name:	**1720018-02RE1@100**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 20:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.28	Chloride	146.504	21.755	99.87	101.637	BMB
2	6.41	Bromide	0.112	0.028	0.13	0.460	BMB
Total:			146.616	21.783	100.00	102.097	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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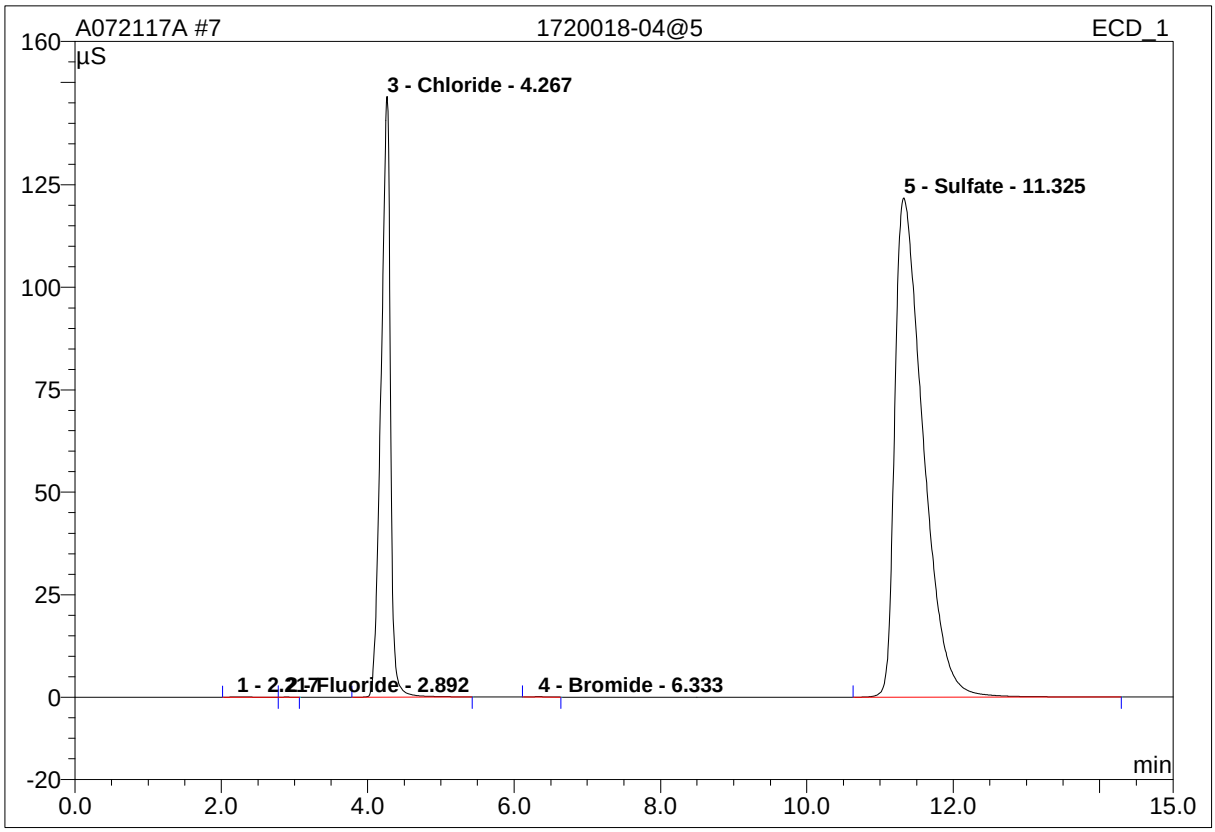
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 1720018-04@5

Sample Name:	**1720018-04@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 2:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



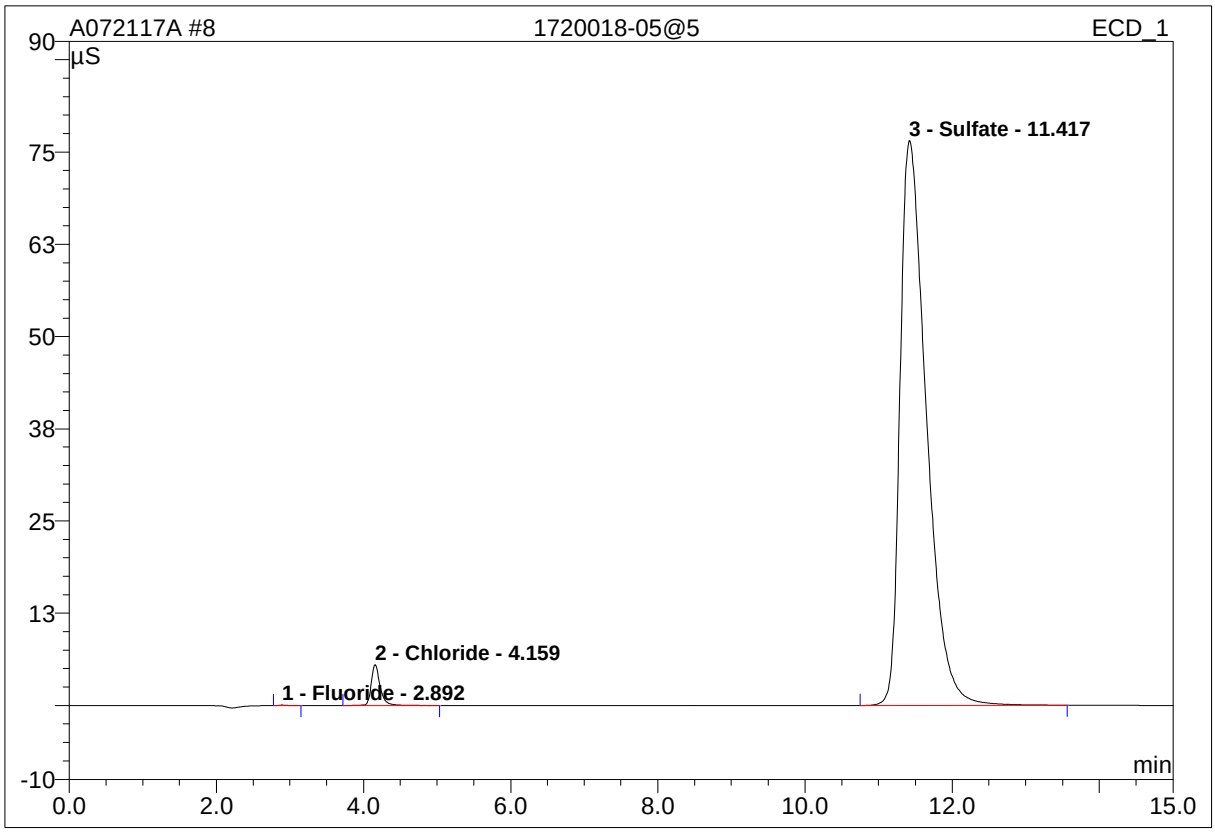
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.22	n.a.	0.070	0.024	0.03	n.a.	BM
2	2.89	Fluoride	0.050	0.006	0.01	0.036	MB
3	4.27	Chloride	146.518	21.740	28.53	102.534	BMB
4	6.33	Bromide	0.094	0.020	0.03	0.334	BMB
5	11.33	Sulfate	121.781	54.402	71.40	342.501	BMB
Total:			268.512	76.192	100.00	445.405	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 1720018-05@5

Sample Name:	**1720018-05@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 3:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.076	0.009	0.03	0.052	BMB
2	4.16	Chloride	5.536	0.787	2.42	4.255	BMB
3	11.42	Sulfate	76.537	31.693	97.55	215.110	BMB
Total:			82.148	32.489	100.00	219.417	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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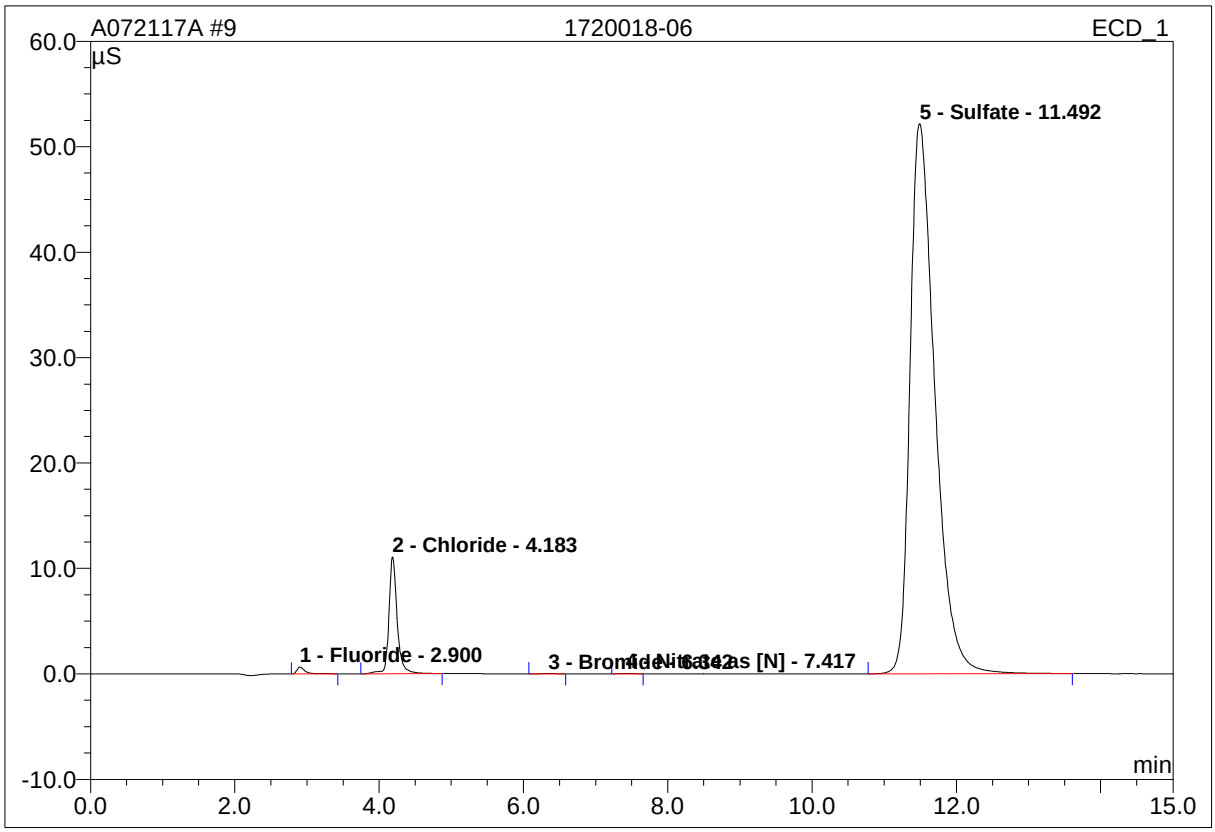
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

9 1720018-06

Sample Name:	**1720018-06**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 3:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



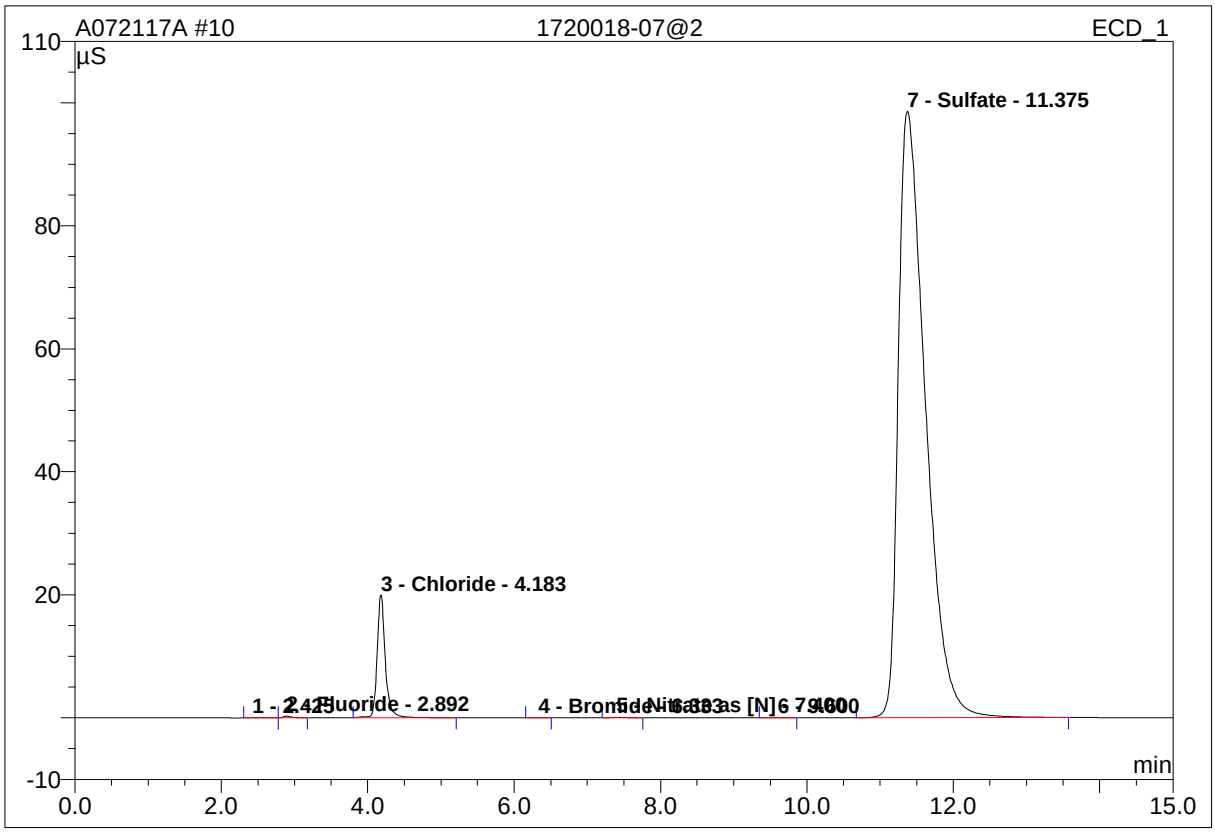
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.655	0.085	0.38	0.386	BMB
2	4.18	Chloride	11.085	1.484	6.63	7.880	BMB
3	6.34	Bromide	0.019	0.004	0.02	0.077	BMB
4	7.42	Nitrate as [N]	0.028	0.006	0.03	0.016	BMB
5	11.49	Sulfate	52.171	20.805	92.95	147.361	BMB
Total:			63.957	22.385	100.00	155.720	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

10 1720018-07@2

Sample Name:	**1720018-07@2**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 3:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.43	n.a.	0.019	0.005	0.01	n.a.	BMb
2	2.89	Fluoride	0.264	0.032	0.07	0.153	bMB
3	4.18	Chloride	19.915	2.585	5.75	13.549	BMB
4	6.33	Bromide	0.021	0.004	0.01	0.071	BMB
5	7.40	Nitrate as [N]	0.068	0.016	0.04	0.045	BMB
6	9.60	n.a.	0.021	0.006	0.01	n.a.	BMB
7	11.38	Sulfate	98.608	42.287	94.11	276.585	BMB
Total:			118.917	44.935	100.00	290.402	

modified on: n.a. By: OLH/EMW

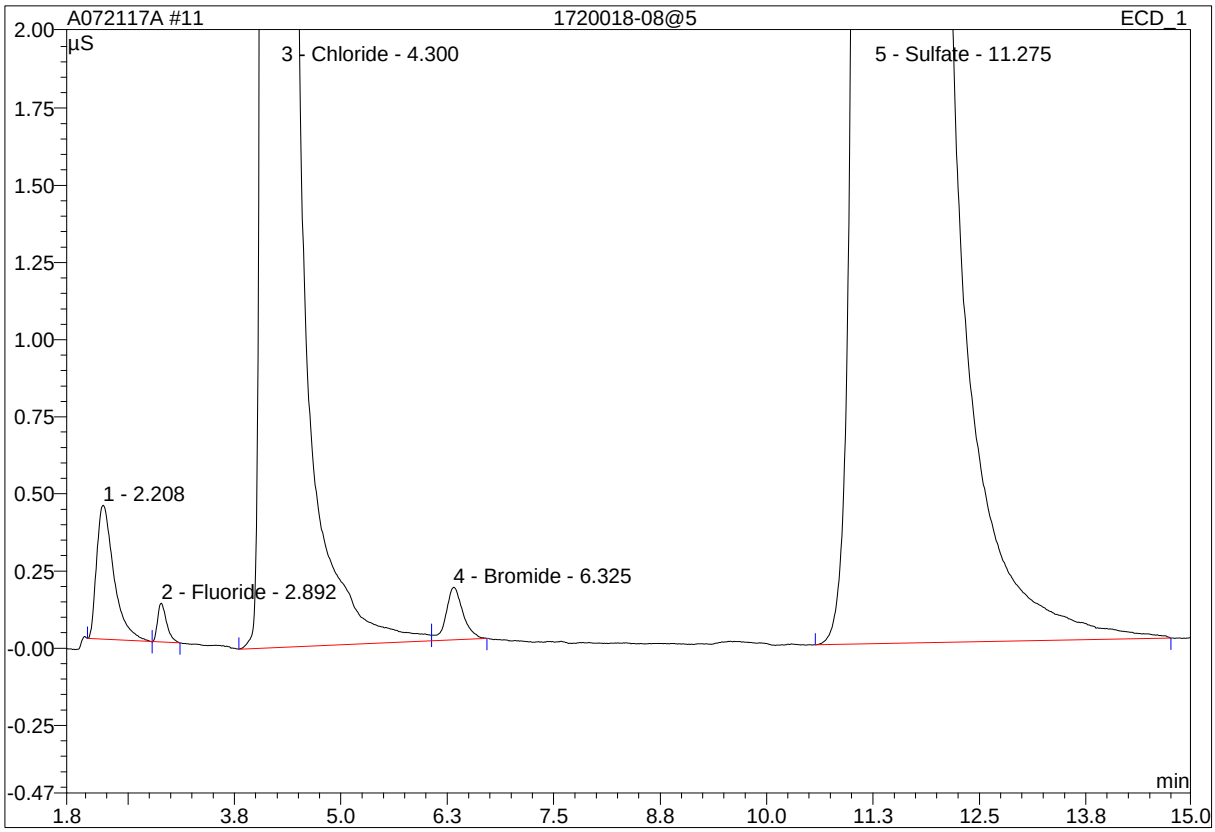
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

11 1720018-08@5

QC1

Sample Name:	**1720018-08@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.434	0.102	0.10	n.a.	BM
2	2.89	Fluoride	0.126	0.015	0.02	0.079	MB
3	4.30	Chloride	194.289	31.786	31.73	143.700	BM
4	6.33	Bromide	0.171	0.040	0.04	0.664	MB
5	11.28	Sulfate	146.649	68.230	68.11	413.026	BMB
Total:			341.668	100.173	100.00	557.468	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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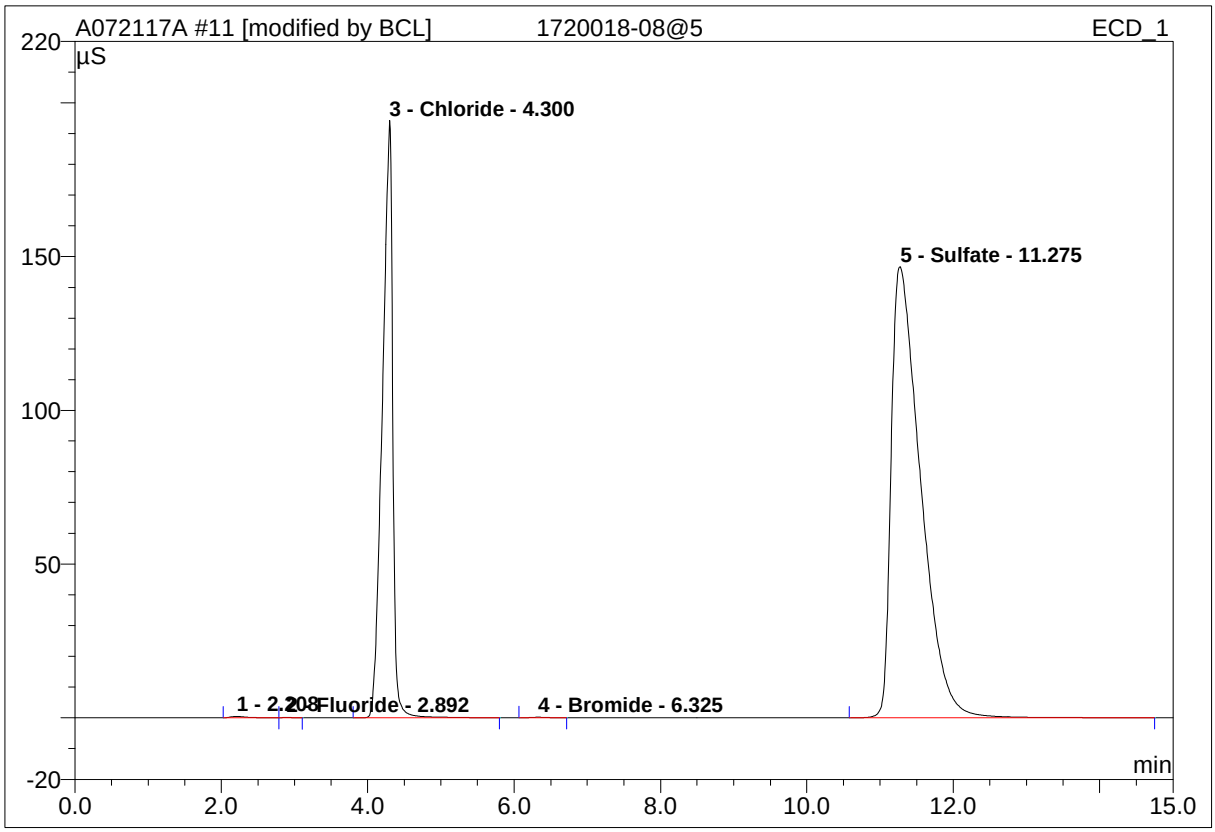
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

11 1720018-08@5

QC1

Sample Name:	**1720018-08@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



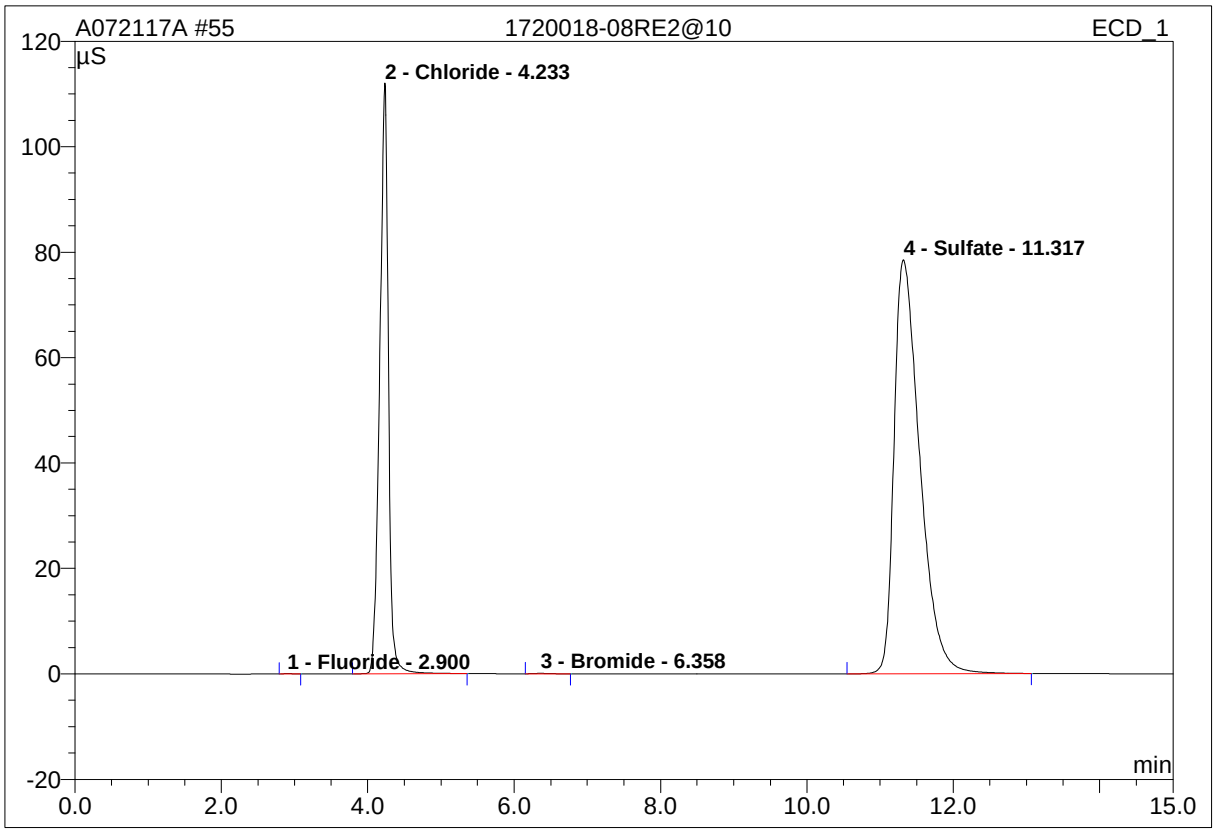
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.434	0.102	0.10	n.a.	BM
2	2.89	Fluoride	0.126	0.015	0.02	0.079	MB
3	4.30	Chloride	194.281	31.750	31.71	143.557	BMB*
4	6.33	Bromide	0.160	0.034	0.03	0.567	BMB*
5	11.28	Sulfate	146.649	68.230	68.14	413.026	BMB
Total:			341.650	100.131	100.00	557.229	

modified on: 07.23.17 18:18 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

55 1720018-08RE2@10

Sample Name:	**1720018-08RE2@10**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



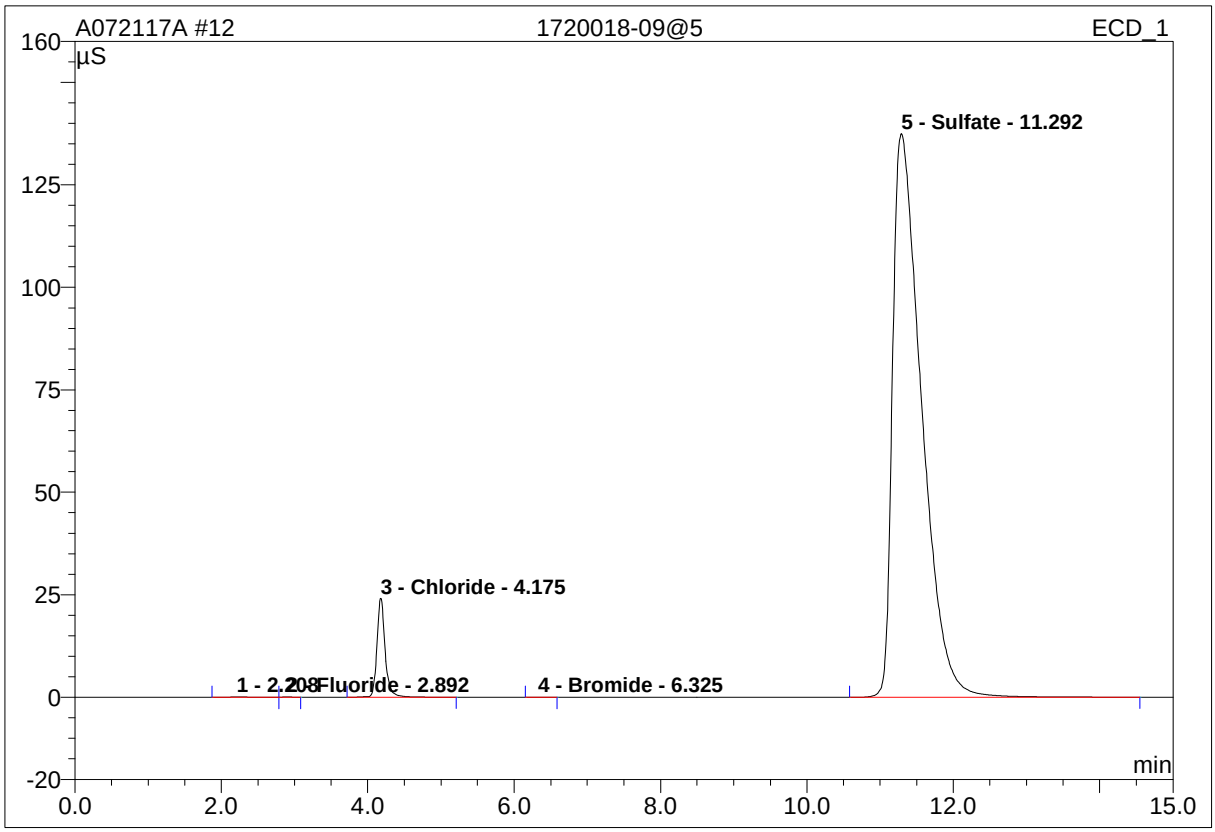
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.052	0.007	0.01	0.040	BMB
2	4.23	Chloride	112.068	15.436	32.55	74.986	BMB
3	6.36	Bromide	0.081	0.018	0.04	0.311	BMB
4	11.32	Sulfate	78.531	31.966	67.40	216.743	BMB
Total:			190.731	47.426	100.00	292.080	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

12 1720018-09@5

Sample Name:	**1720018-09@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.085	0.029	0.04	n.a.	BM
2	2.89	Fluoride	0.123	0.014	0.02	0.074	MB
3	4.18	Chloride	24.146	3.164	4.79	16.495	BMB
4	6.33	Bromide	0.031	0.006	0.01	0.109	BMB
5	11.29	Sulfate	137.468	62.890	95.14	386.326	BMB
Total:			161.852	66.103	100.00	403.005	

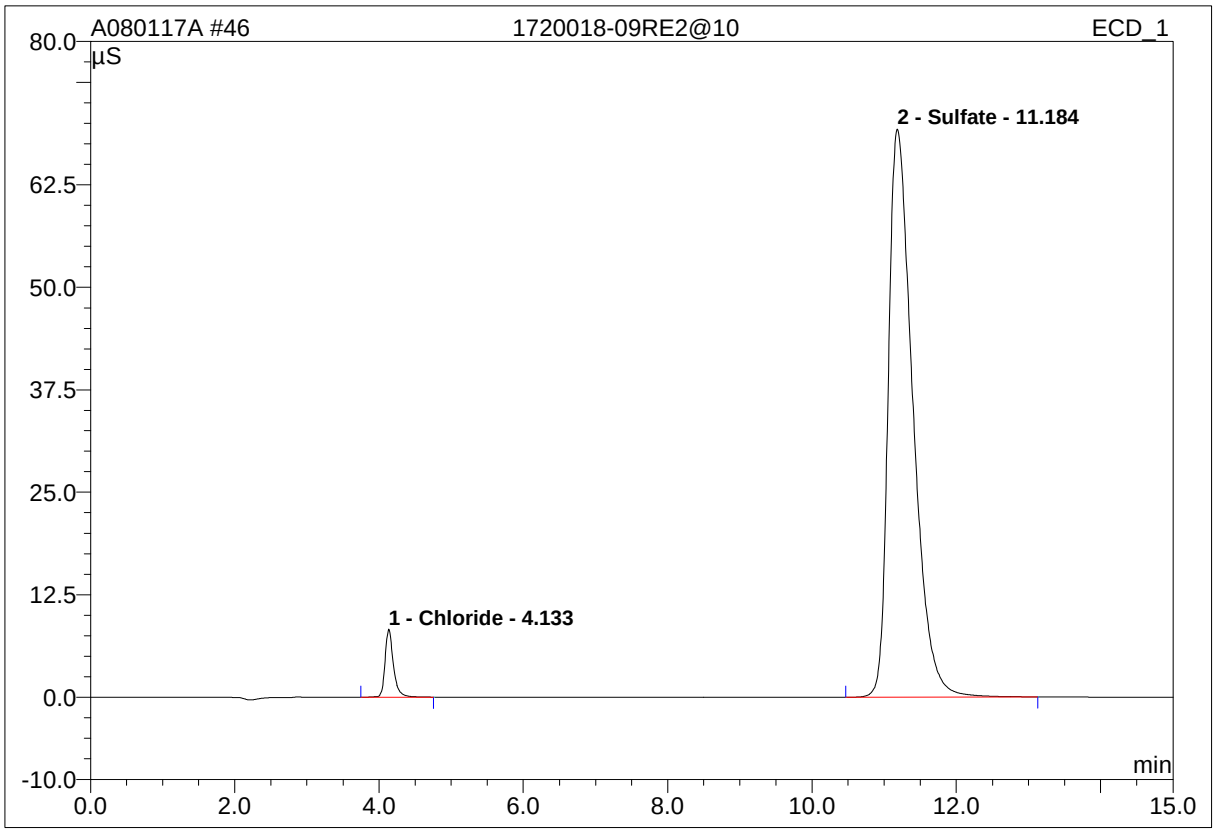
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

46 1720018-09RE2@10

PER TERESA

Sample Name:	**1720018-09RE2@10**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 10:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	8.299	1.125	3.96	6.050	BMB
2	11.18	Sulfate	69.290	27.277	96.04	187.553	BMB
Total:			77.589	28.402	100.00	193.604	

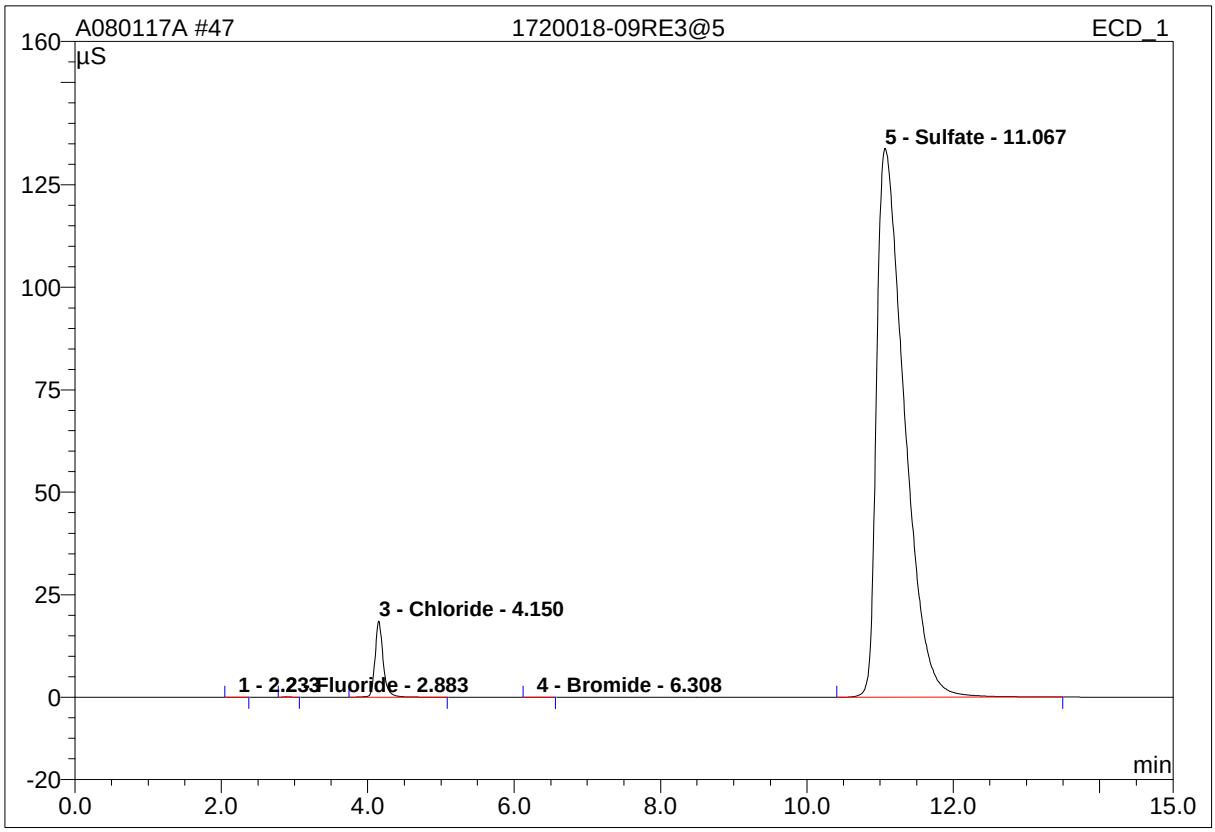
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

47 1720018-09RE3@5

PER TERESA

Sample Name:	**1720018-09RE3@5**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 10:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



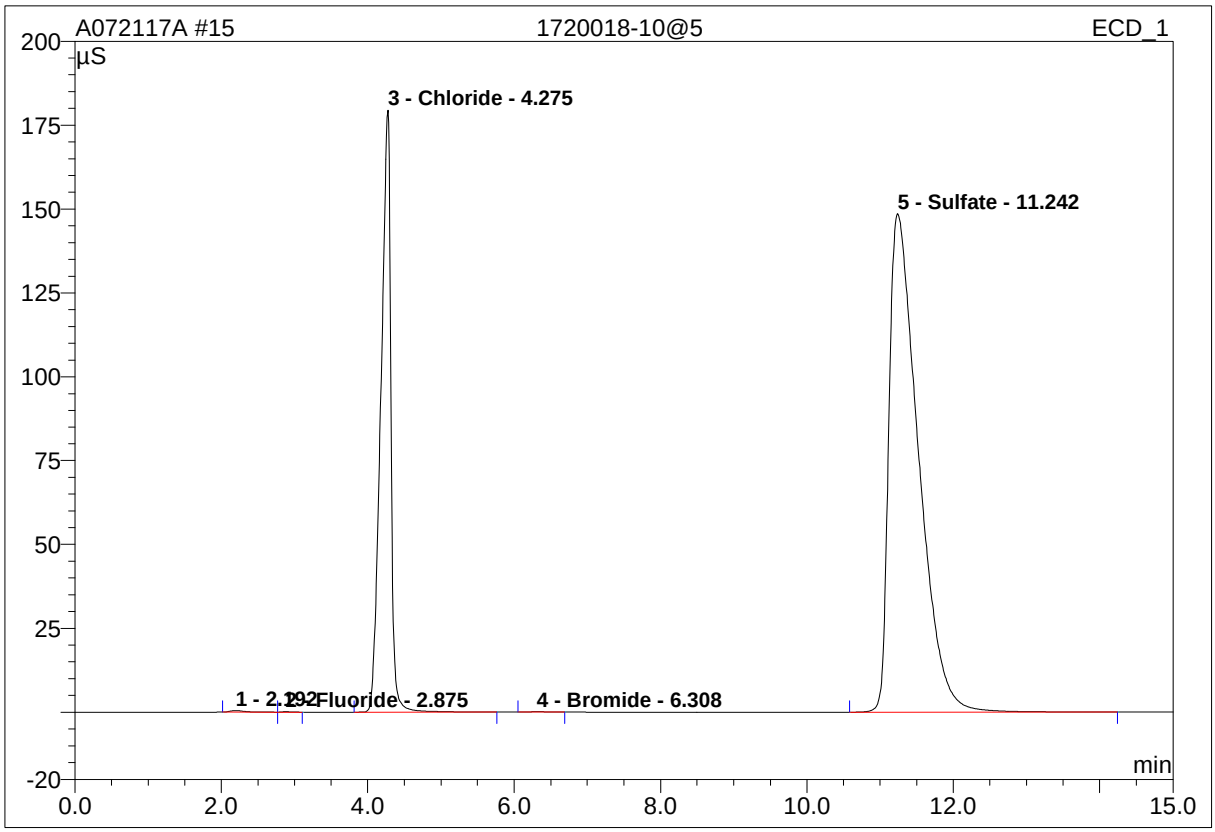
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.23	n.a.	0.018	0.004	0.01	n.a.	BMB
2	2.88	Fluoride	0.125	0.014	0.02	0.072	BMB
3	4.15	Chloride	18.599	2.426	3.98	12.791	BMB
4	6.31	Bromide	0.040	0.009	0.01	0.150	BMB
5	11.07	Sulfate	133.872	58.570	95.98	362.627	BMB
Total:			152.653	61.022	100.00	375.639	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

15 1720018-10@5

Sample Name:	**1720018-10@5**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



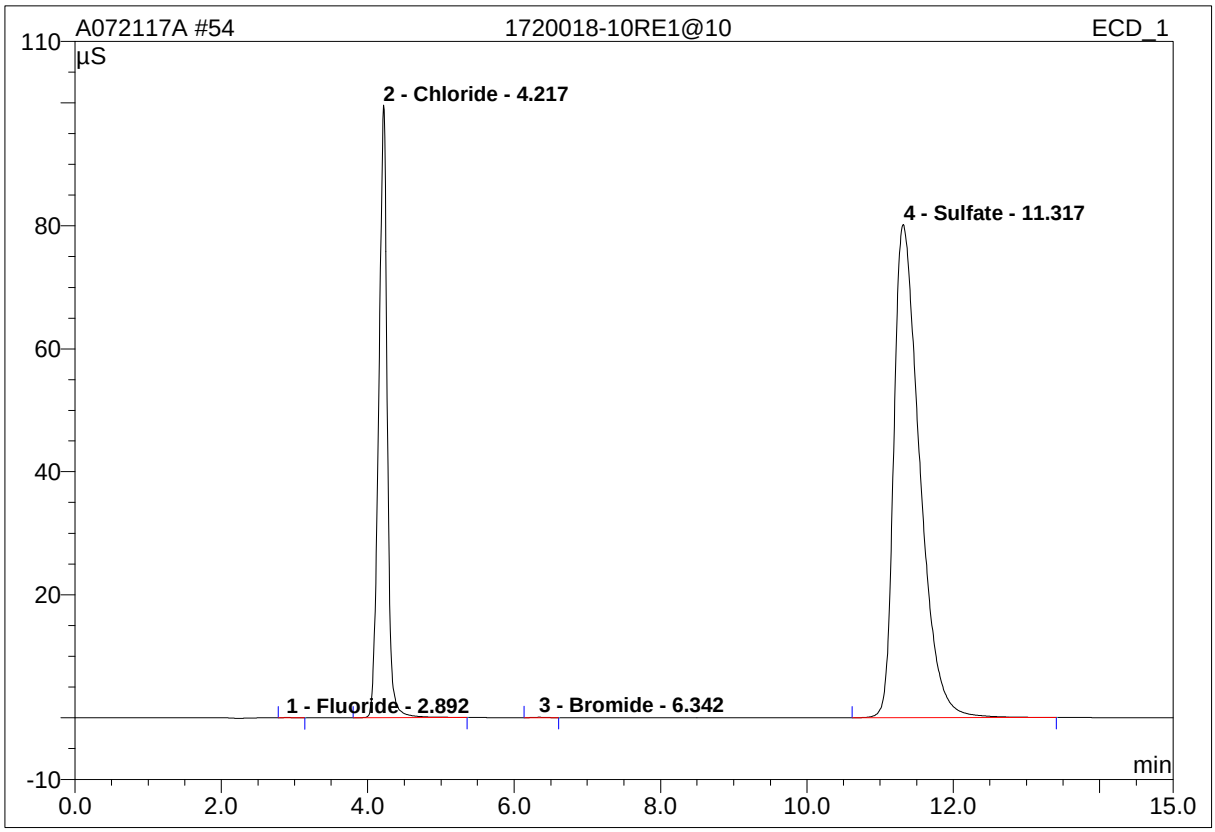
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.19	n.a.	0.466	0.107	0.11	n.a.	BMB
2	2.88	Fluoride	0.141	0.017	0.02	0.088	bMB
3	4.28	Chloride	179.466	28.379	29.05	130.078	BMB
4	6.31	Bromide	0.142	0.031	0.03	0.518	BMB
5	11.24	Sulfate	148.609	69.143	70.79	417.526	BMB
Total:			328.824	97.677	100.00	548.210	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

54 1720018-10RE1@10

Sample Name:	**1720018-10RE1@10**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



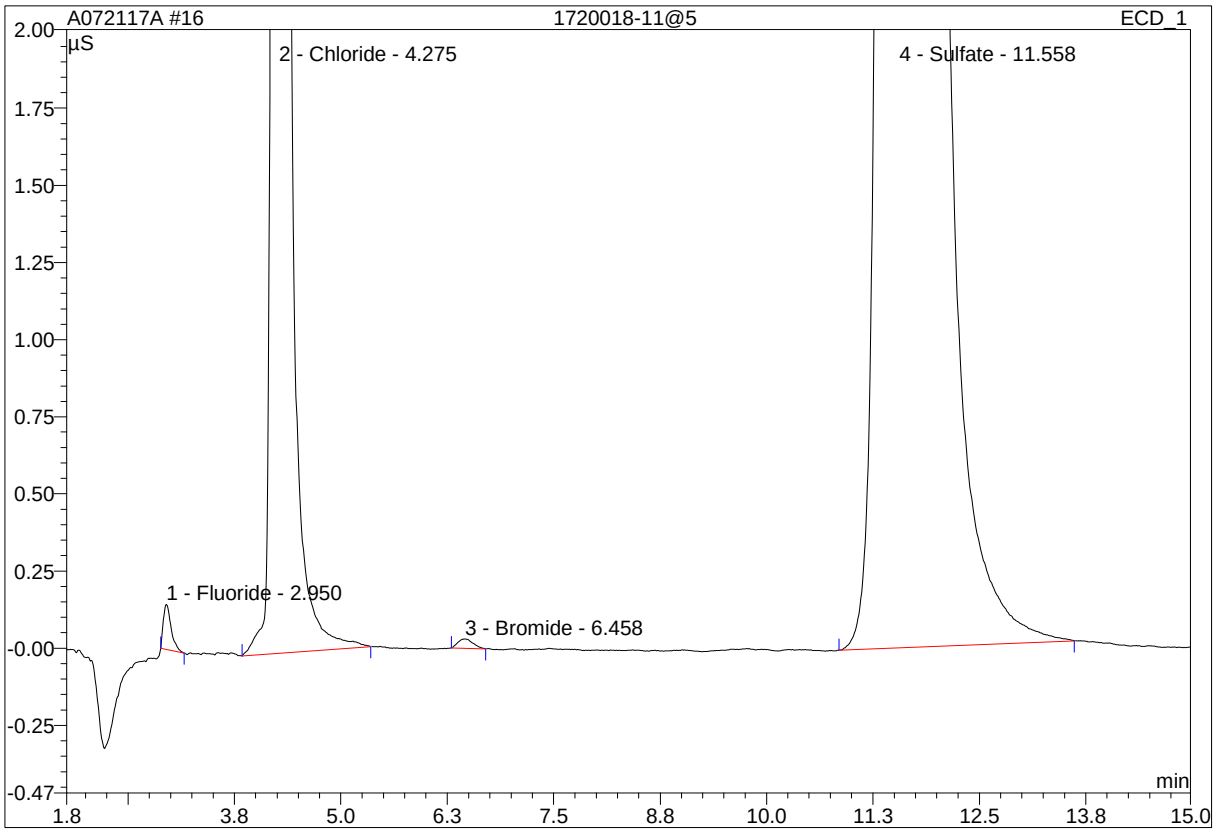
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.057	0.008	0.02	0.046	BMB
2	4.22	Chloride	99.607	13.513	29.22	66.277	BMB
3	6.34	Bromide	0.072	0.015	0.03	0.251	BMB
4	11.32	Sulfate	80.181	32.705	70.73	221.159	BMB
Total:			179.917	46.240	100.00	287.733	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

16 1720018-11@5

Sample Name:	**1720018-11@5**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



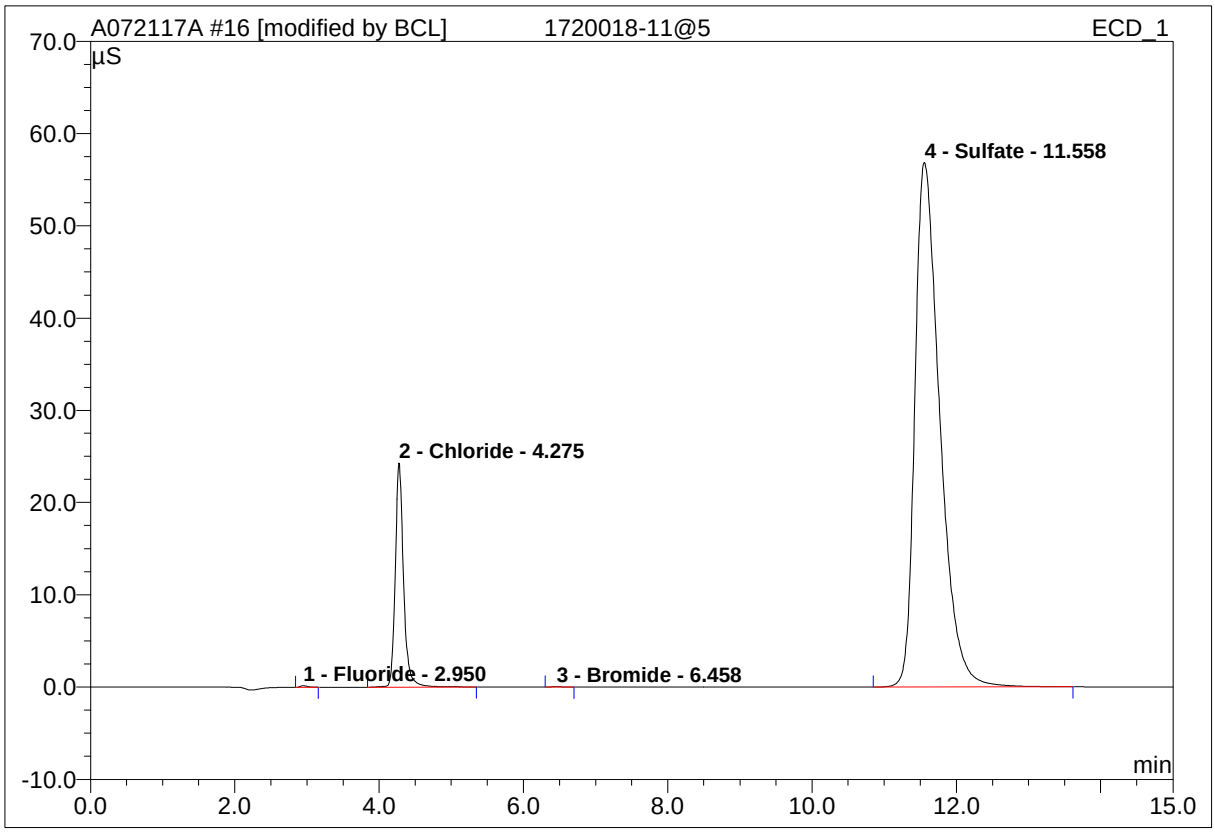
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.95	Fluoride	0.146	0.016	0.06	0.080	BMB
2	4.28	Chloride	24.296	3.245	12.45	16.908	BMB
3	6.46	Bromide	0.030	0.006	0.02	0.111	BMB
4	11.56	Sulfate	56.882	22.791	87.46	160.106	BMB
Total:			81.354	26.057	100.00	177.205	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

16 1720018-11@5

Sample Name:	**1720018-11@5**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.95	Fluoride	0.169	0.020	0.08	0.100	BMB*
2	4.28	Chloride	24.296	3.245	12.45	16.908	BMB
3	6.46	Bromide	0.030	0.006	0.02	0.111	BMB
4	11.56	Sulfate	56.882	22.791	87.45	160.106	BMB
Total:			81.377	26.062	100.00	177.226	

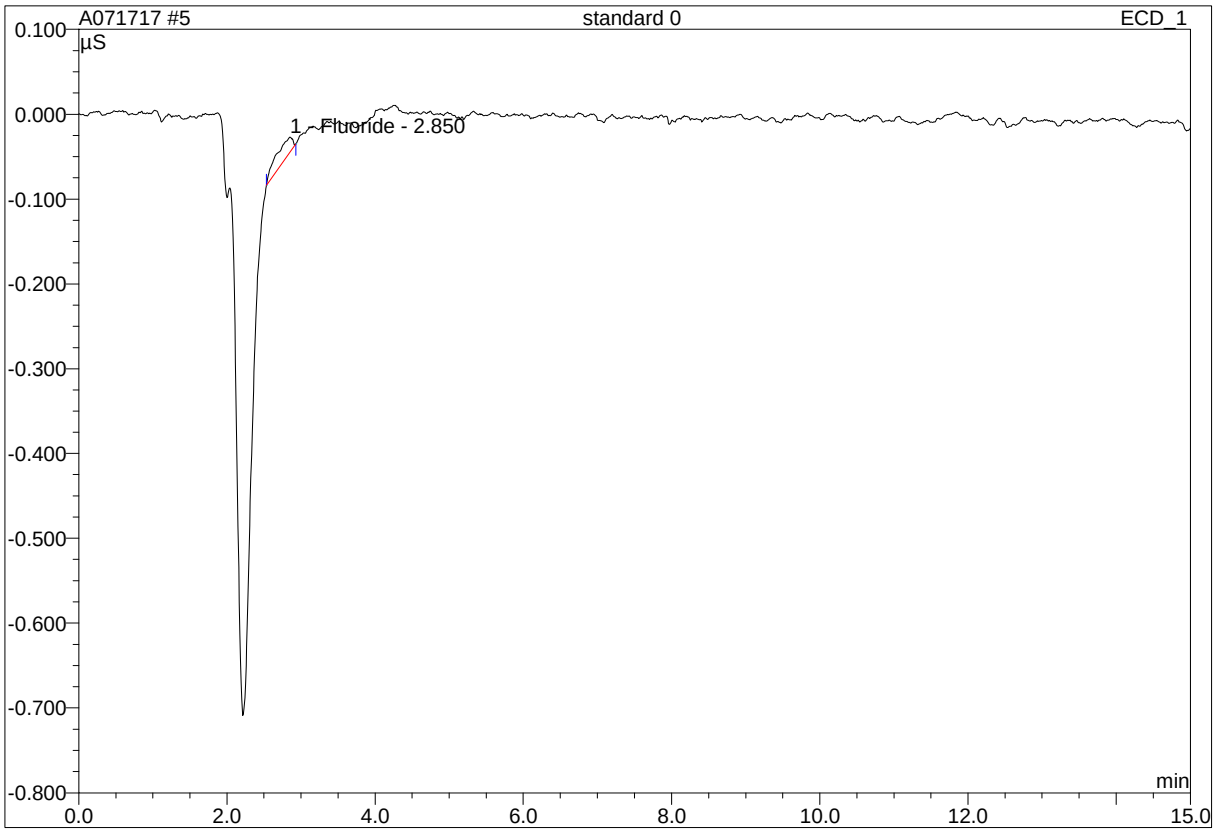
modified on: 07.23.17 18:19 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Calibration Standards

5 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 9:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



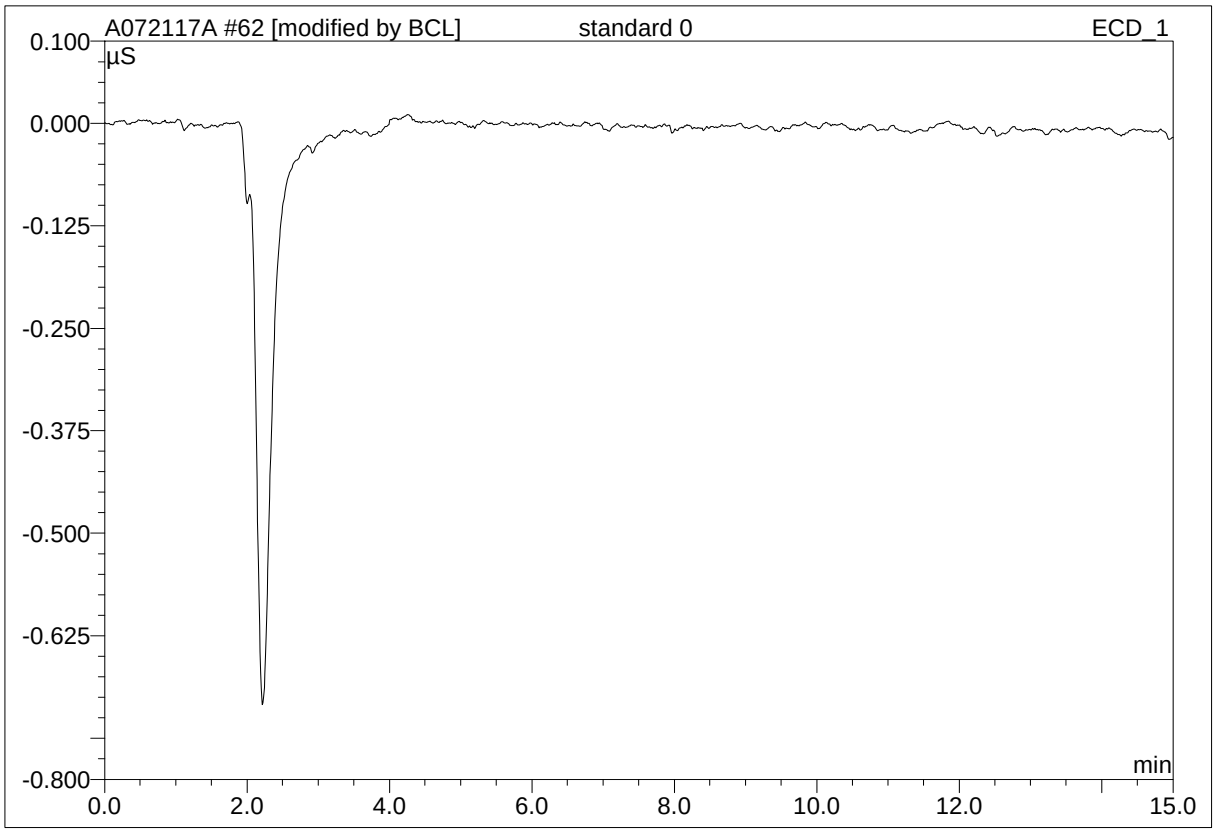
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.85	Fluoride	0.018	0.006	100.00	0.037	BMB
Total:			0.018	0.006	100.00	0.037	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

62 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 9:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



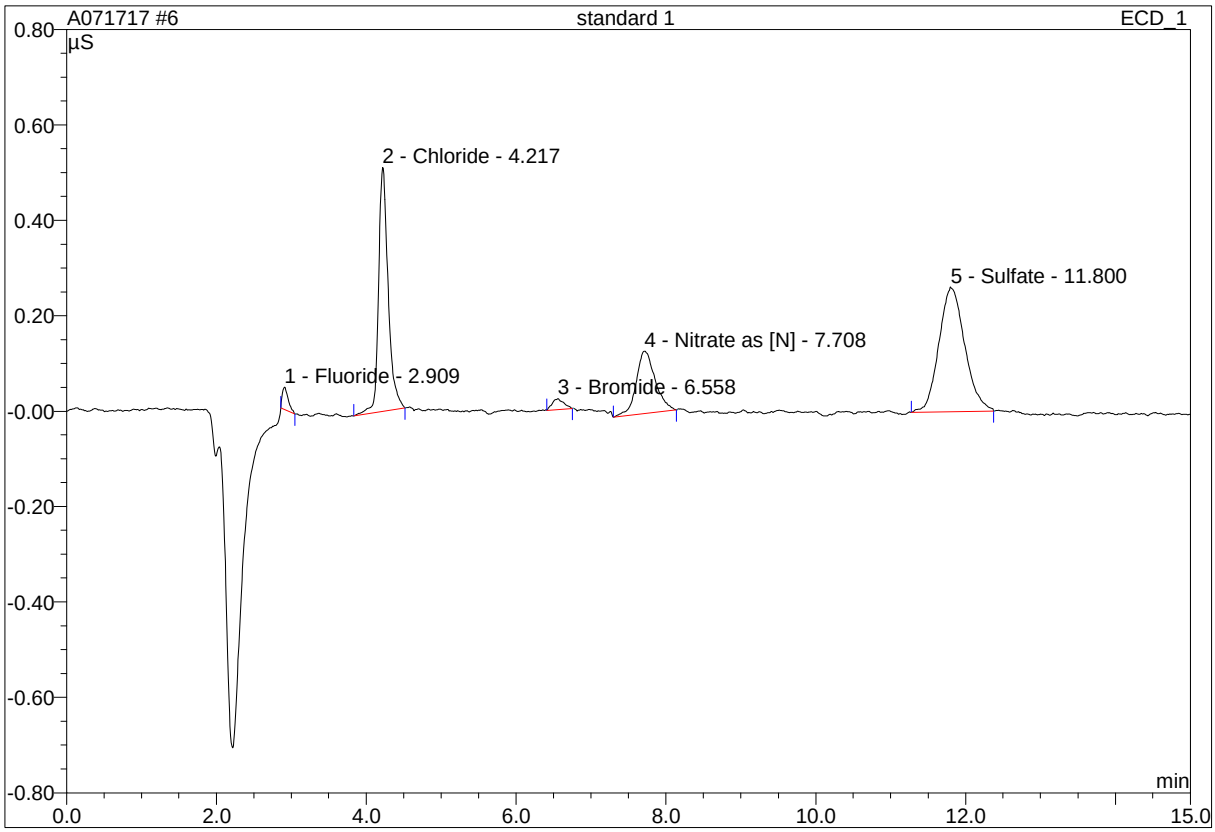
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.17.17 12:22 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



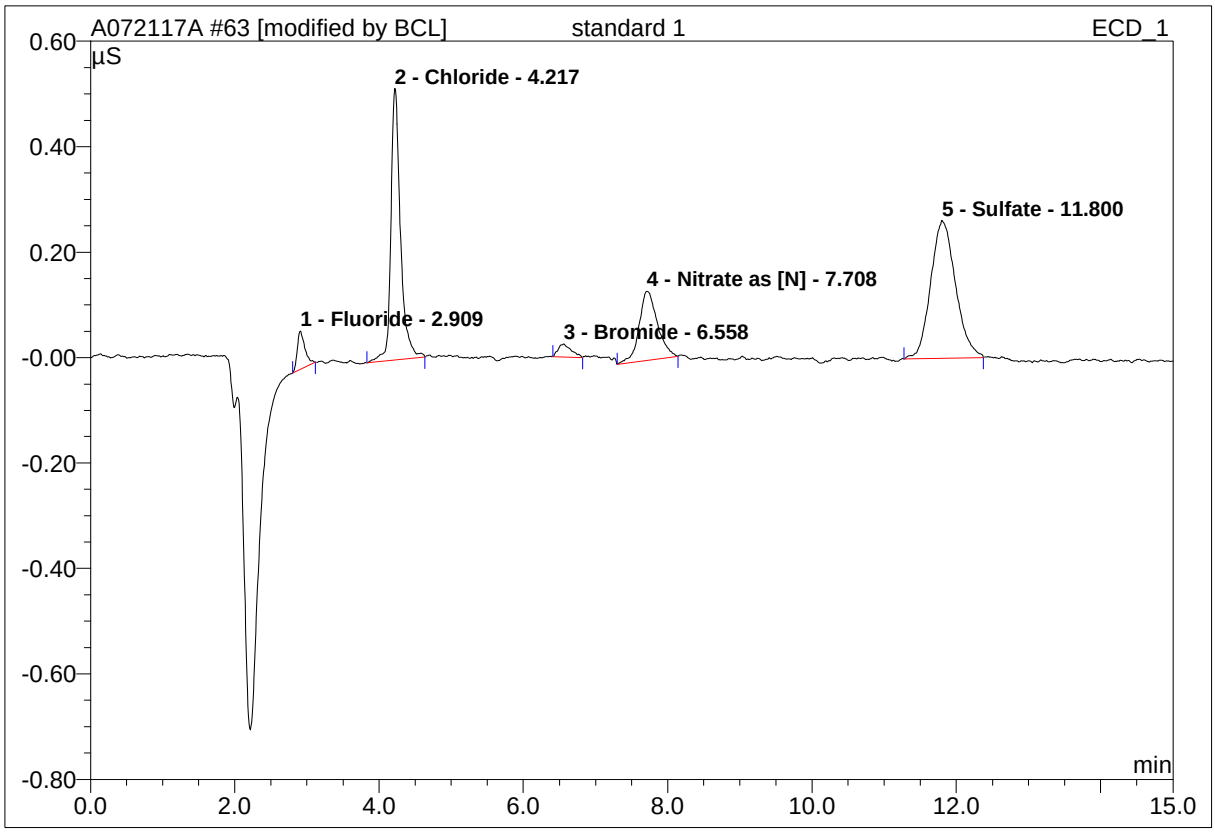
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	0.046	0.004	1.86	0.043	BMB
2	4.22	Chloride	0.511	0.076	33.41	0.537	BMB
3	6.56	Bromide	0.023	0.004	1.78	0.089	BMB
4	7.71	Nitrate as [N]	0.131	0.039	16.99	0.107	BMB
5	11.80	Sulfate	0.261	0.104	45.96	0.989	BMB
Total:			0.973	0.227	100.00	1.765	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

63 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



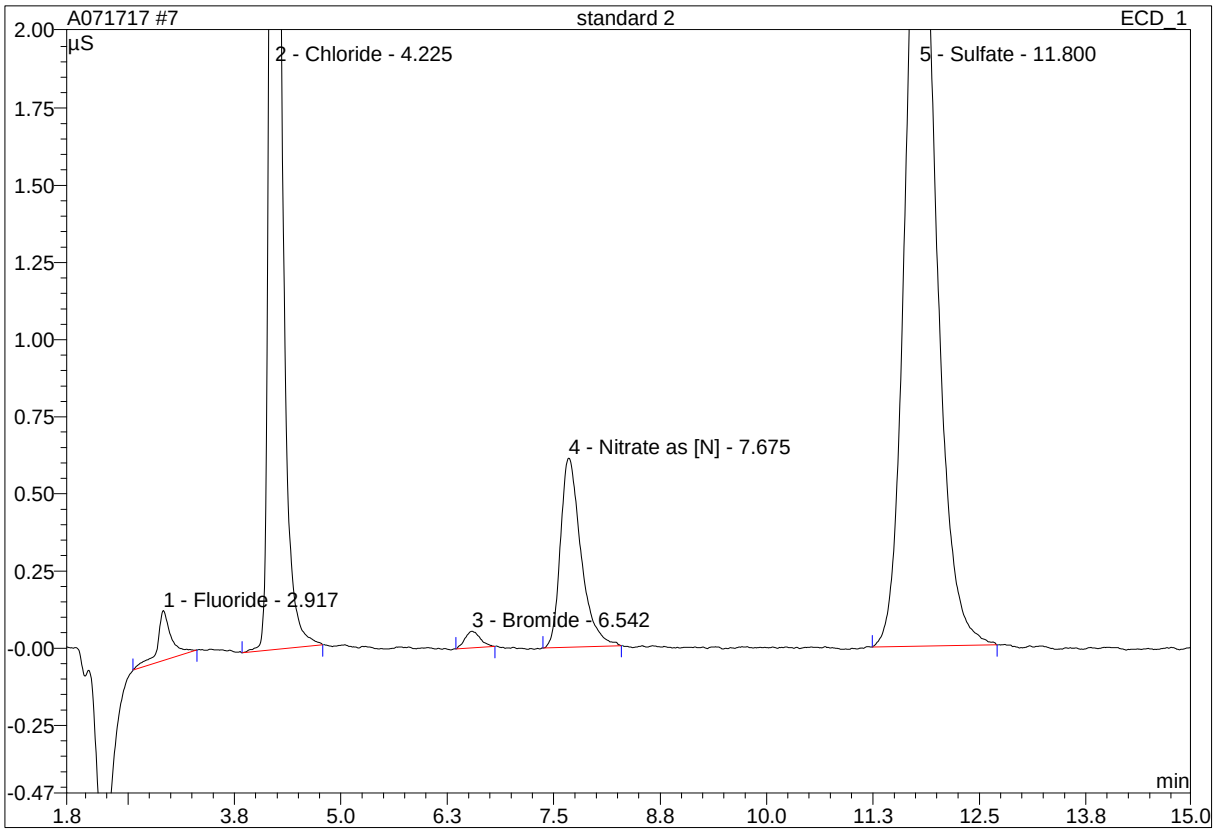
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	0.072	0.009	3.74	0.050	BMB*
2	4.22	Chloride	0.515	0.079	33.52	0.544	BMB*
3	6.56	Bromide	0.025	0.005	2.19	0.095	BMB*
4	7.71	Nitrate as [N]	0.131	0.039	16.34	0.107	BMB
5	11.80	Sulfate	0.261	0.104	44.20	0.989	BMB
Total:			1.005	0.236	100.00	1.785	

modified on: 07.17.17 12:22 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



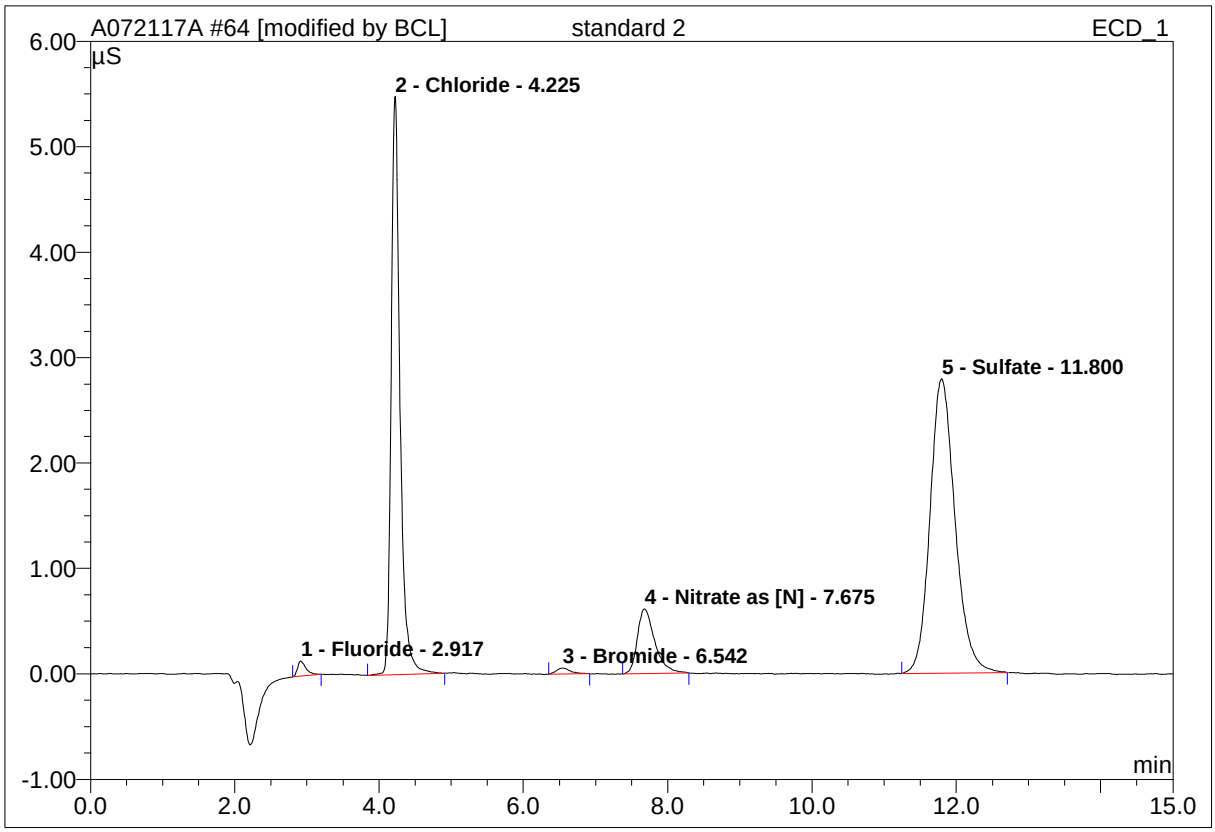
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	0.162	0.030	1.43	0.131	BMB
2	4.23	Chloride	5.481	0.775	36.71	4.195	BMB
3	6.54	Bromide	0.054	0.011	0.53	0.201	BMB
4	7.68	Nitrate as [N]	0.612	0.171	8.11	0.478	BMB
5	11.80	Sulfate	2.794	1.123	53.22	8.892	BMB
Total:			9.102	2.111	100.00	13.897	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

64 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



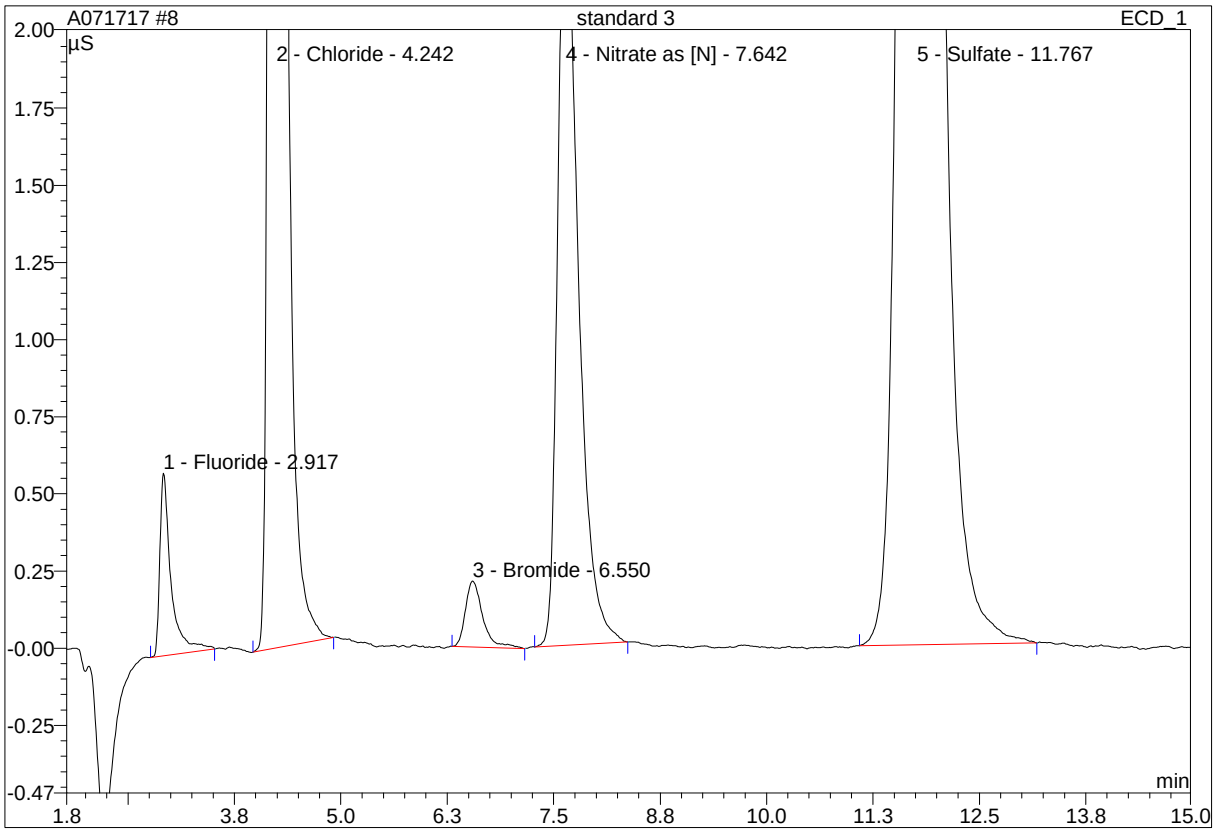
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	0.143	0.019	0.92	0.097	BMB*
2	4.23	Chloride	5.484	0.779	37.00	4.215	BMB*
3	6.54	Bromide	0.056	0.013	0.60	0.217	BMB*
4	7.68	Nitrate as [N]	0.612	0.171	8.13	0.478	BMB
5	11.80	Sulfate	2.794	1.123	53.36	8.892	BMB
Total:			9.088	2.105	100.00	13.898	

modified on: 07.17.17 12:22 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



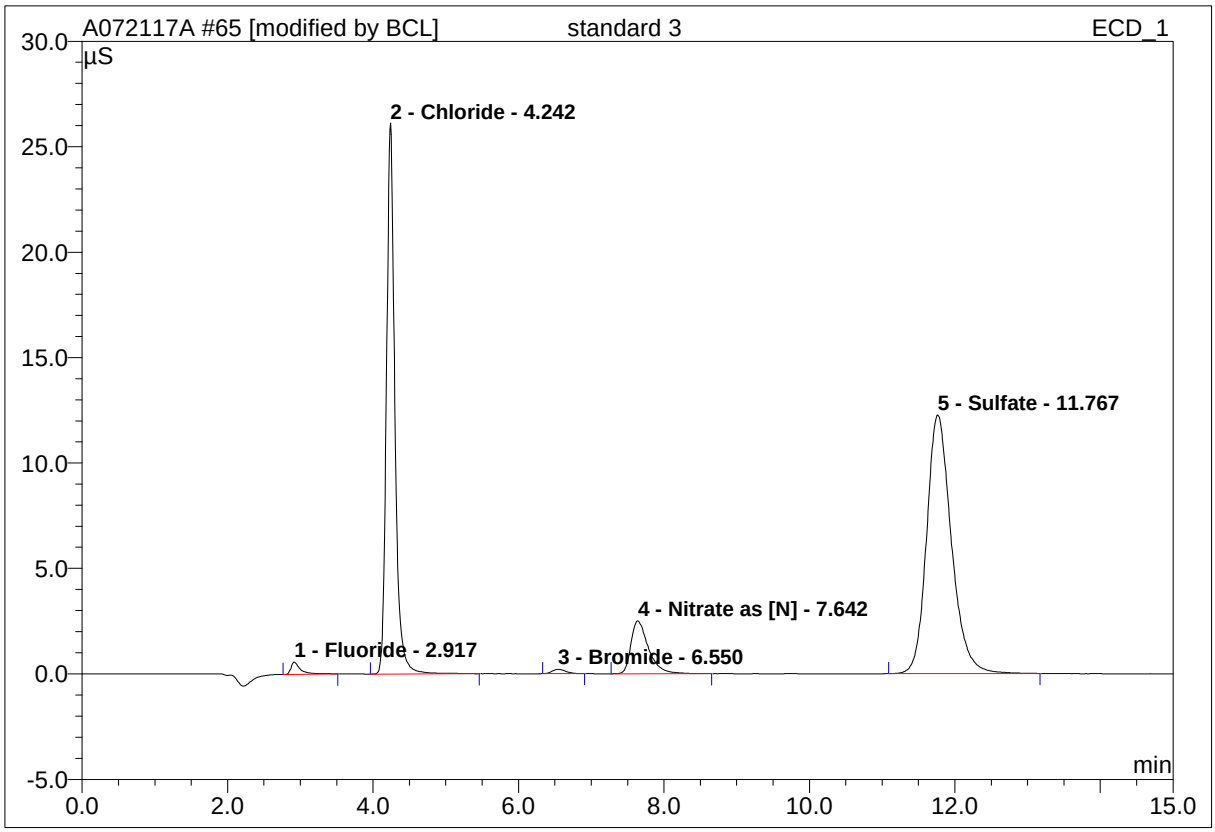
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	0.591	0.090	0.99	0.408	BMB
2	4.24	Chloride	26.121	3.478	37.99	18.117	BMB
3	6.55	Bromide	0.214	0.050	0.55	0.819	BMB
4	7.64	Nitrate as [N]	2.505	0.693	7.57	1.909	BMB
5	11.77	Sulfate	12.269	4.843	52.90	37.024	BMB
Total:			41.700	9.154	100.00	58.278	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

65 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



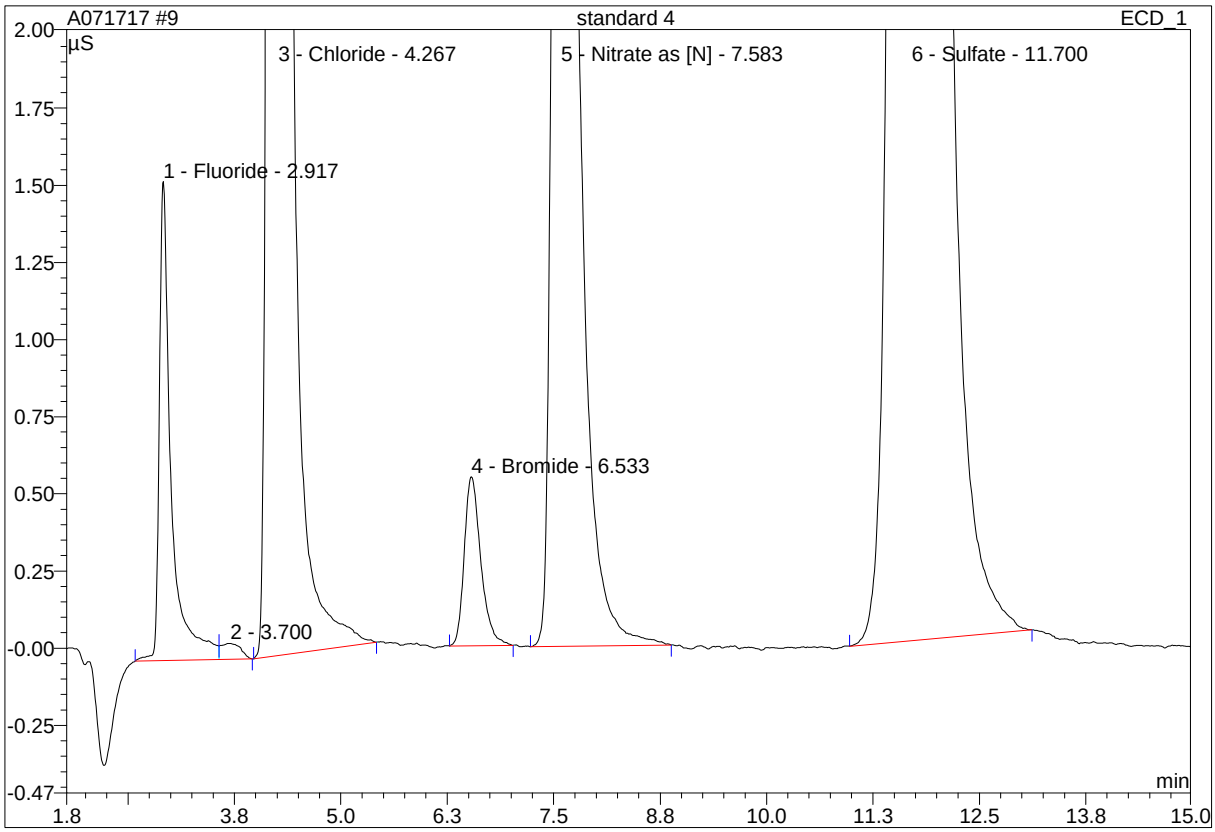
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	0.591	0.090	0.98	0.408	BMB
2	4.24	Chloride	26.131	3.504	38.15	18.221	BMB*
3	6.55	Bromide	0.208	0.044	0.48	0.744	BMB*
4	7.64	Nitrate as [N]	2.509	0.703	7.65	1.930	BMB*
5	11.77	Sulfate	12.269	4.843	52.73	37.024	BMB
Total:			41.709	9.184	100.00	58.329	

modified on: 07.17.17 12:22 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

9 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



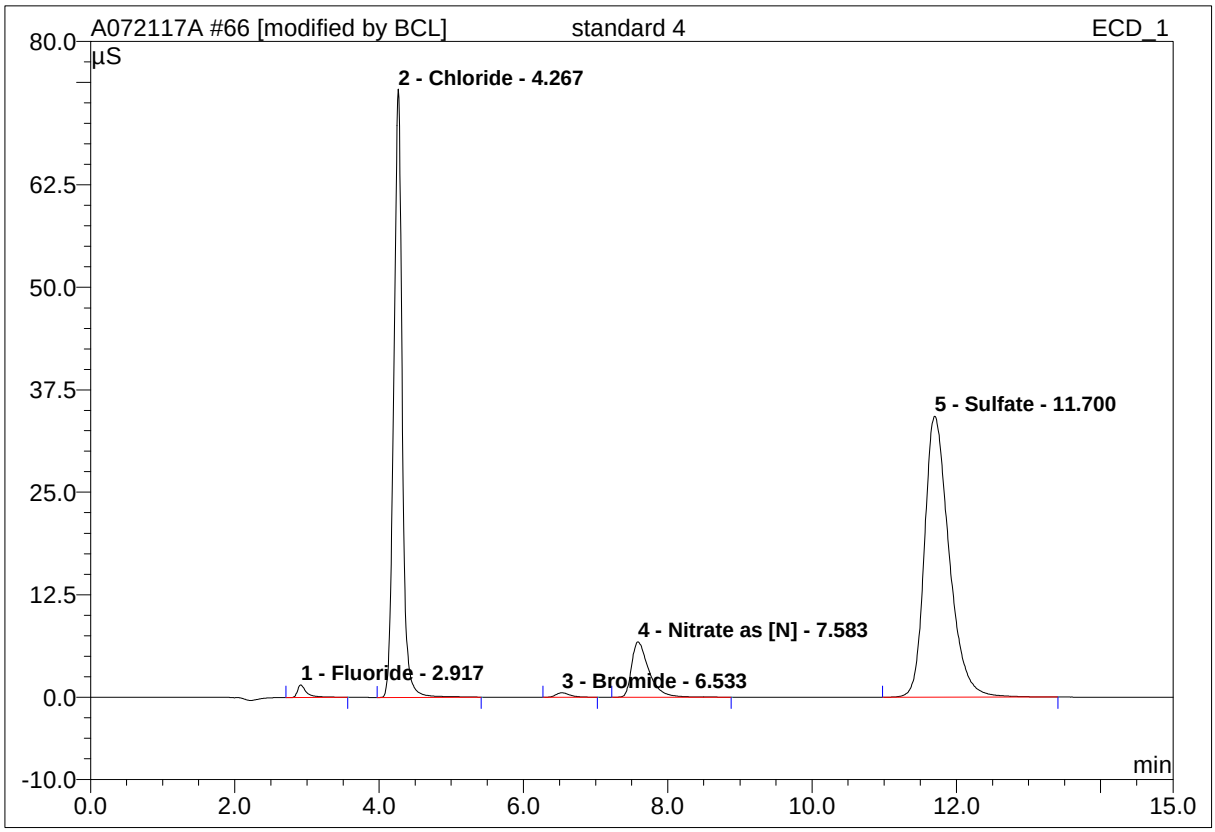
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	1.551	0.250	0.97	1.056	BM
2	3.70	n.a.	0.051	0.014	0.05	n.a.	MB
3	4.27	Chloride	74.178	10.004	38.80	49.980	BMB
4	6.53	Bromide	0.547	0.123	0.48	2.024	BMB
5	7.58	Nitrate as [N]	6.747	1.883	7.30	4.982	BMB
6	11.70	Sulfate	34.293	13.512	52.40	98.910	BMB
Total:			117.369	25.786	100.00	156.952	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

66 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



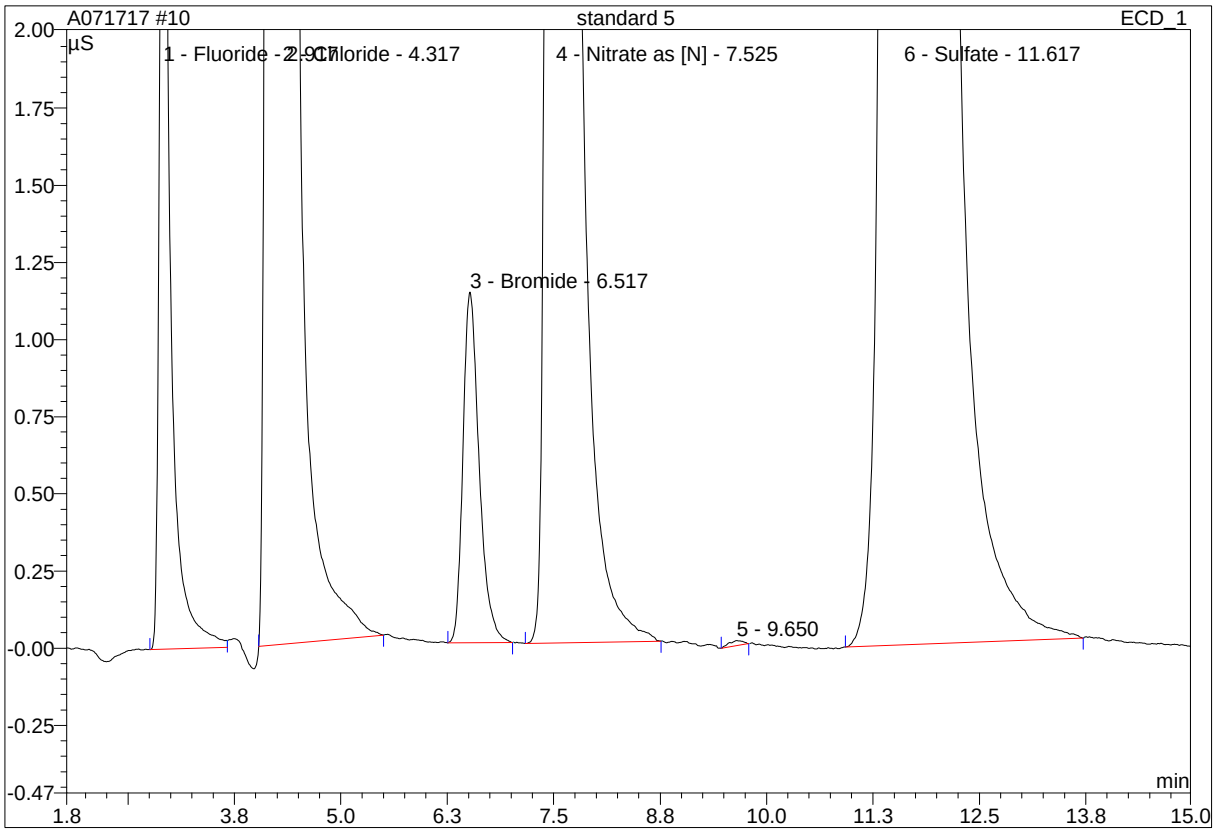
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	1.531	0.225	0.87	0.994	BMB*
2	4.27	Chloride	74.178	10.004	38.80	49.980	BMB
3	6.53	Bromide	0.547	0.123	0.48	2.024	BMB
4	7.58	Nitrate as [N]	6.747	1.883	7.30	4.982	BMB
5	11.70	Sulfate	34.303	13.550	52.55	99.070	BMB*
Total:			117.308	25.785	100.00	157.051	

modified on: 07.17.17 12:22 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

10 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



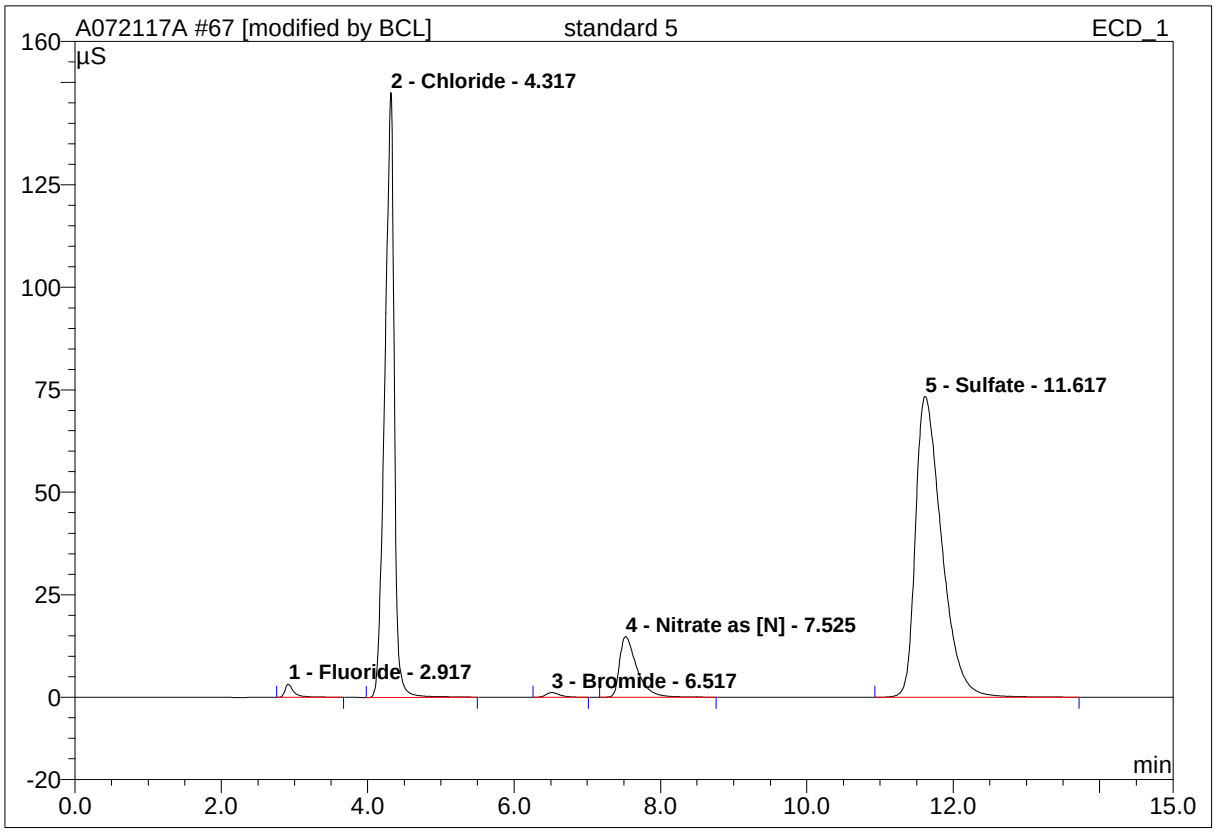
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	3.232	0.469	0.82	2.023	BM
2	4.32	Chloride	147.486	22.012	38.47	103.773	BMB
3	6.52	Bromide	1.137	0.251	0.44	4.036	BMB
4	7.53	Nitrate as [N]	14.790	4.079	7.13	10.152	BMB
5	9.65	n.a.	0.017	0.003	0.01	n.a.	BMB
6	11.62	Sulfate	73.398	30.403	53.14	207.345	BMB
Total:			240.058	57.217	100.00	327.330	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

67 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.92	Fluoride	3.228	0.459	0.80	1.999	BMB*
2	4.32	Chloride	147.542	22.064	38.54	103.909	BMB*
3	6.52	Bromide	1.137	0.251	0.44	4.036	BMB
4	7.53	Nitrate as [N]	14.790	4.079	7.12	10.152	BMB
5	11.62	Sulfate	73.398	30.403	53.10	207.345	BMB
Total:			240.094	57.256	100.00	327.442	

modified on: 07.17.17 12:23 By: OLH/EMW

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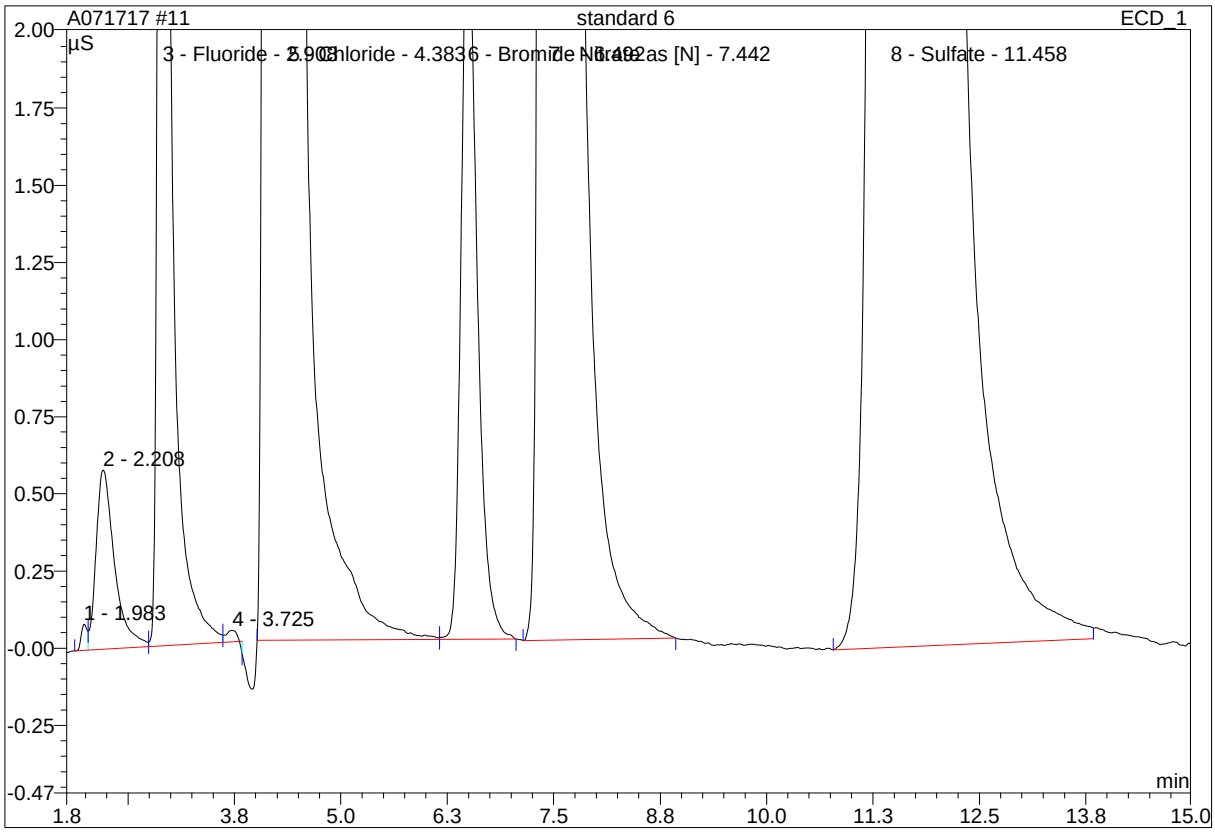
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

11 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.98	n.a.	0.084	0.007	0.01	n.a.	BM
2	2.21	n.a.	0.581	0.146	0.12	n.a.	M
3	2.91	Fluoride	6.646	0.956	0.79	4.004	M
4	3.73	n.a.	0.037	0.005	0.00	n.a.	M
5	4.38	Chloride	246.414	46.154	37.91	198.452	BM
6	6.49	Bromide	2.351	0.514	0.42	7.982	MB
7	7.44	Nitrate as [N]	31.862	8.913	7.32	19.945	BMB
8	11.46	Sulfate	140.795	65.037	53.43	397.347	BM
Total:			428.770	121.731	100.00	627.731	

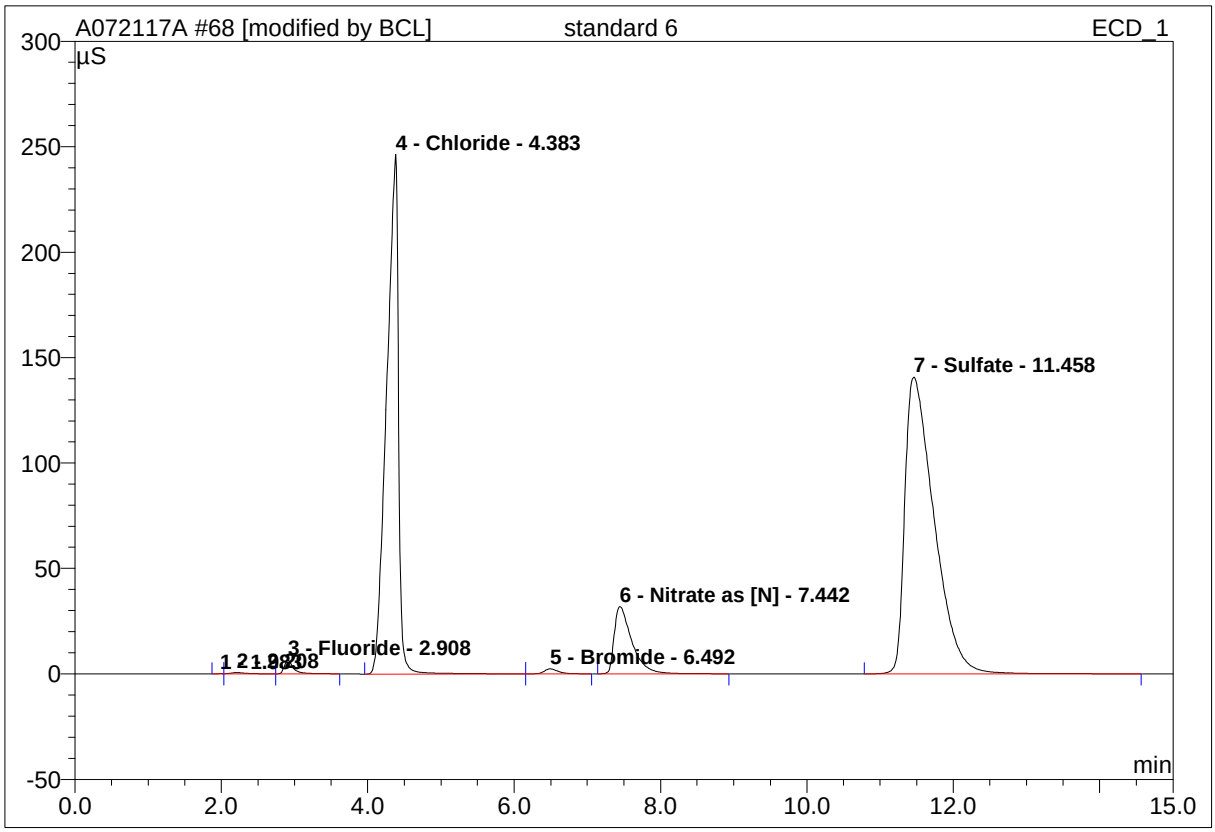
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main

R = Rider
BMB = This peak type is for resolved peaks.

68 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.98	n.a.	0.067	0.005	0.00	n.a.	BM *
2	2.21	n.a.	0.558	0.132	0.11	n.a.	Mb*
3	2.91	Fluoride	6.630	0.940	0.77	4.001	bMB*
4	4.38	Chloride	246.541	46.319	38.00	198.492	BM *
5	6.49	Bromide	2.351	0.514	0.42	7.982	MB*
6	7.44	Nitrate as [N]	31.862	8.913	7.31	19.945	BMB
7	11.46	Sulfate	140.799	65.082	53.39	397.361	BMB*
Total:			428.807	121.904	100.00	627.782	

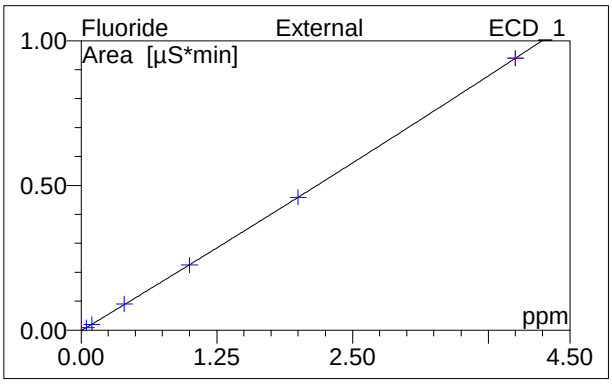
modified on: 07.17.17 12:23 By: OLH/EMW

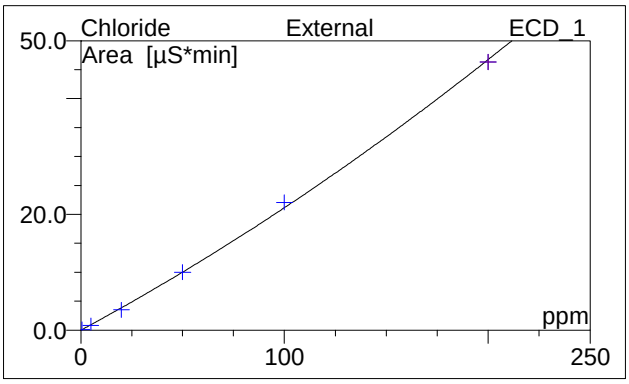
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

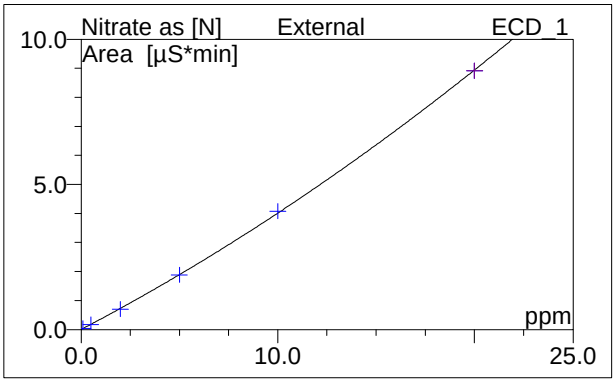
BMB = This peak type is for resolved peaks.

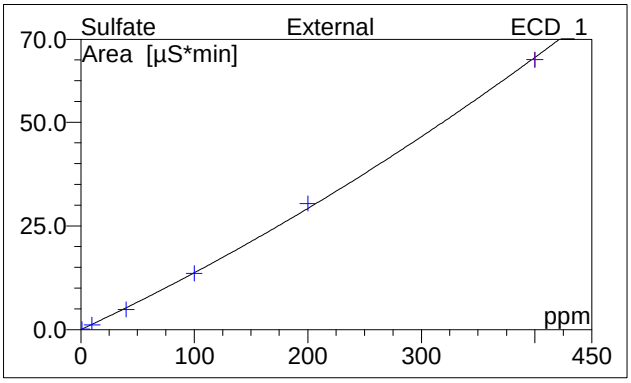
68 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**





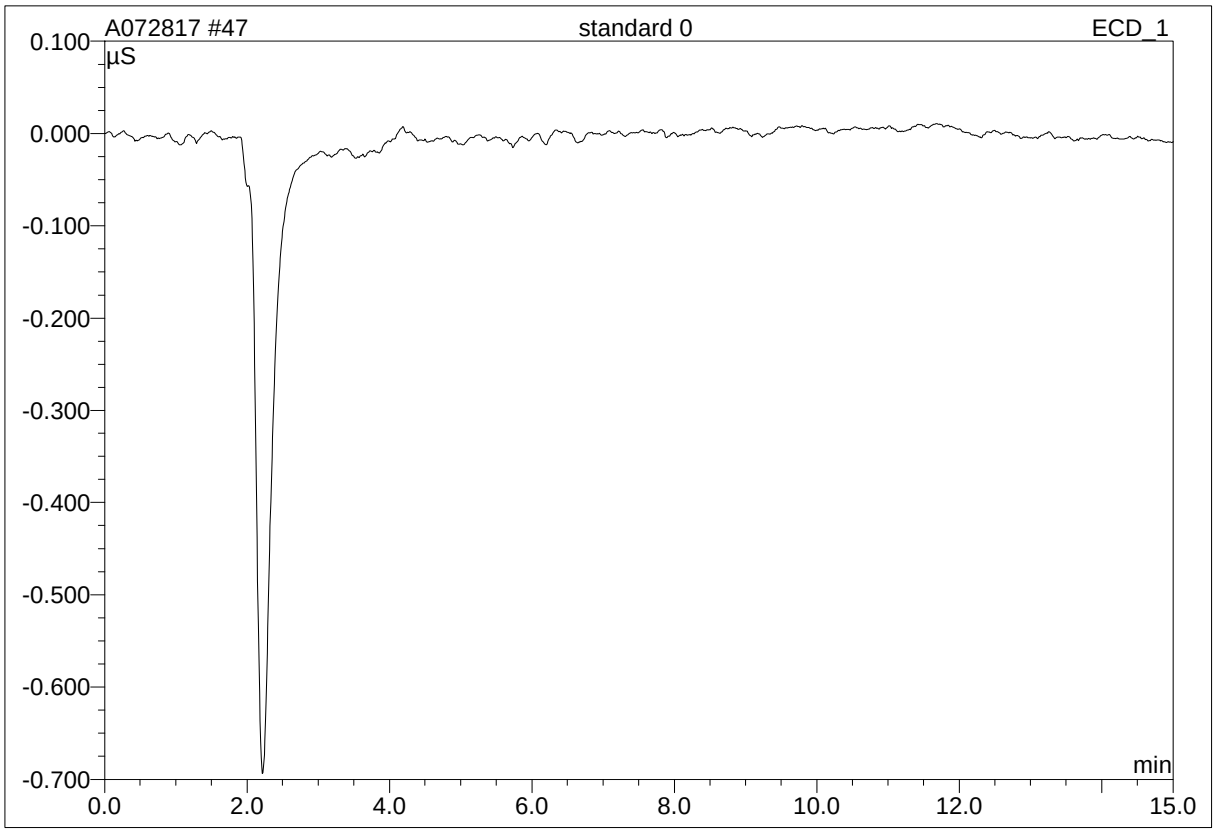




No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	1.98	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.21	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	2.91	Fluoride	XA0QOff	6	99.9900	-0.0026	0.2262	0.0023
4	4.38	Chloride	XA0QOff	6	99.7339	-0.0241	0.1896	0.0002
5	6.49	Bromide	XA0QOff	6	99.9547	-0.0006	0.0601	0.0005
6	7.44	Nitrate as [N]	XA0QOff	6	99.7366	0.0005	0.3550	0.0046
7	11.46	Sulfate	XA0QOff	6	99.6736	-0.0225	0.1281	0.0001
Average:					99.8178	-0.0099	0.1918	0.0016

47 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 7:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



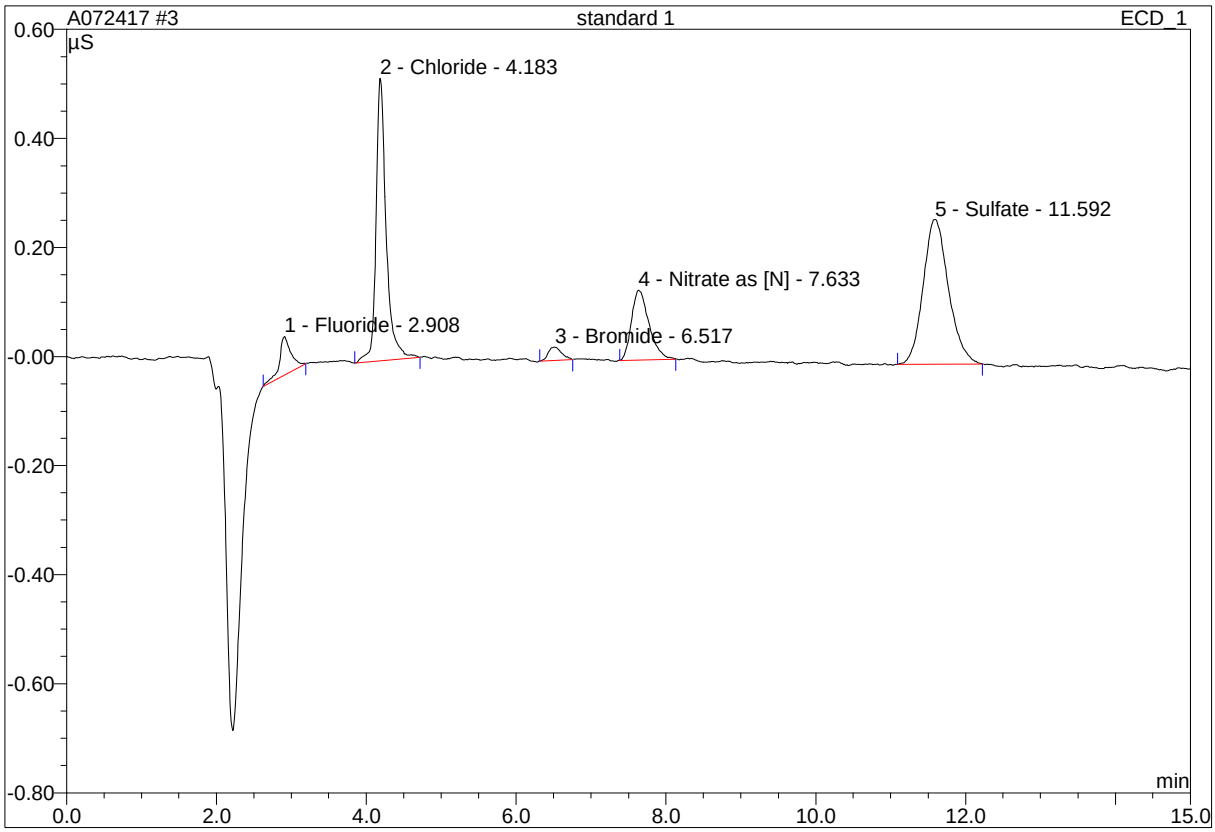
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 8:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



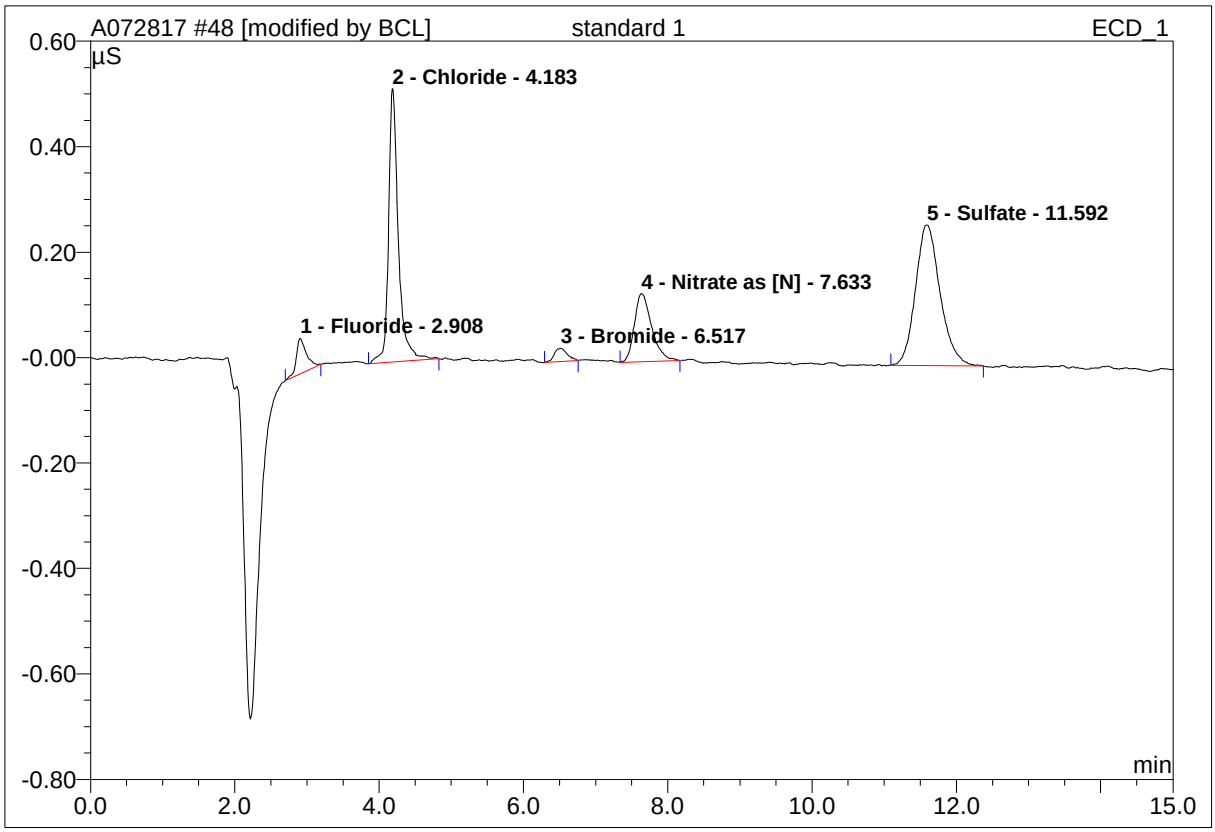
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	0.070	0.012	5.25	0.049	BMB
2	4.18	Chloride	0.518	0.081	34.12	0.552	BMB
3	6.52	Bromide	0.025	0.005	2.14	0.097	BMB
4	7.63	Nitrate as [N]	0.128	0.035	14.66	0.105	BMB
5	11.59	Sulfate	0.265	0.104	43.83	0.989	BMB
Total:			1.006	0.237	100.00	1.792	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

48 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 8:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



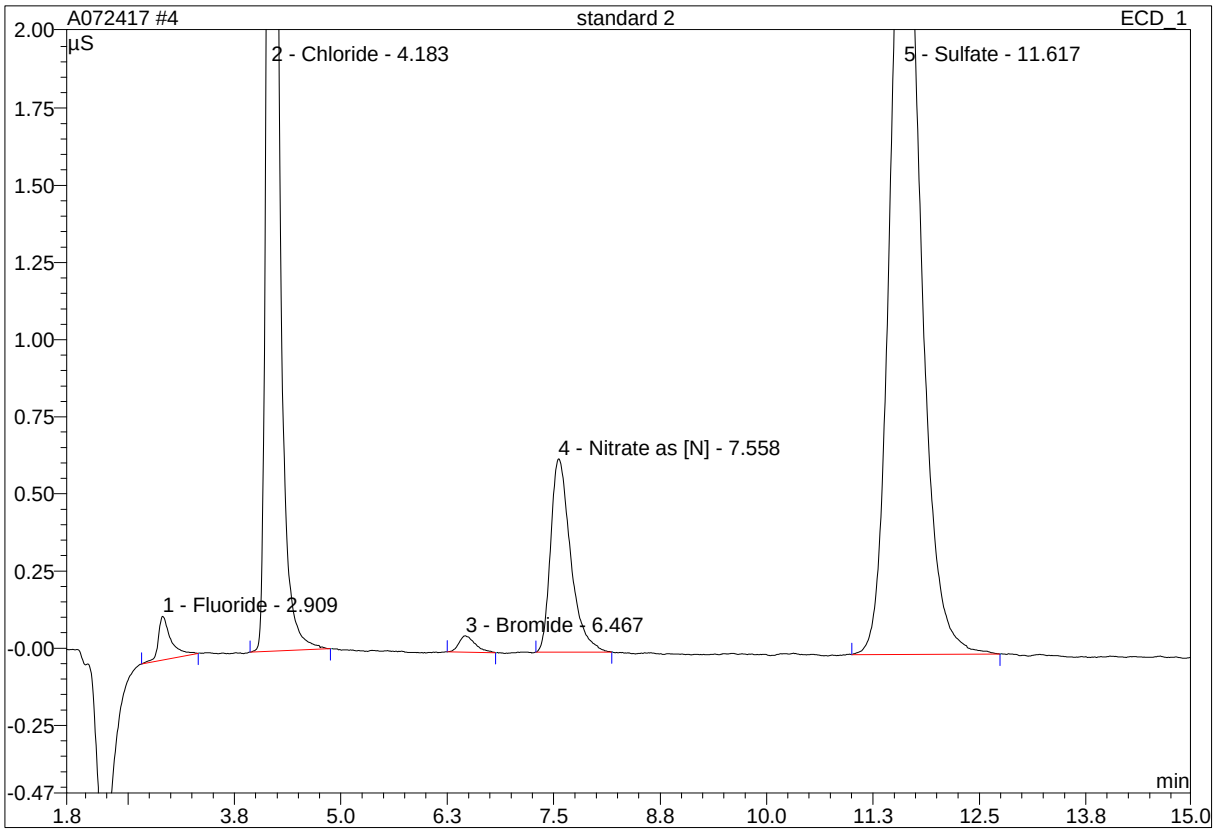
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	0.067	0.011	4.59	0.052	BMB*
2	4.18	Chloride	0.518	0.082	34.26	0.554	BMB*
3	6.52	Bromide	0.025	0.005	2.23	0.098	BMB*
4	7.63	Nitrate as [N]	0.129	0.036	14.91	0.106	BMB*
5	11.59	Sulfate	0.266	0.105	44.01	0.993	BMB*
Total:			1.007	0.239	100.00	1.802	

modified on: 07.24.17 10:11 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 8:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



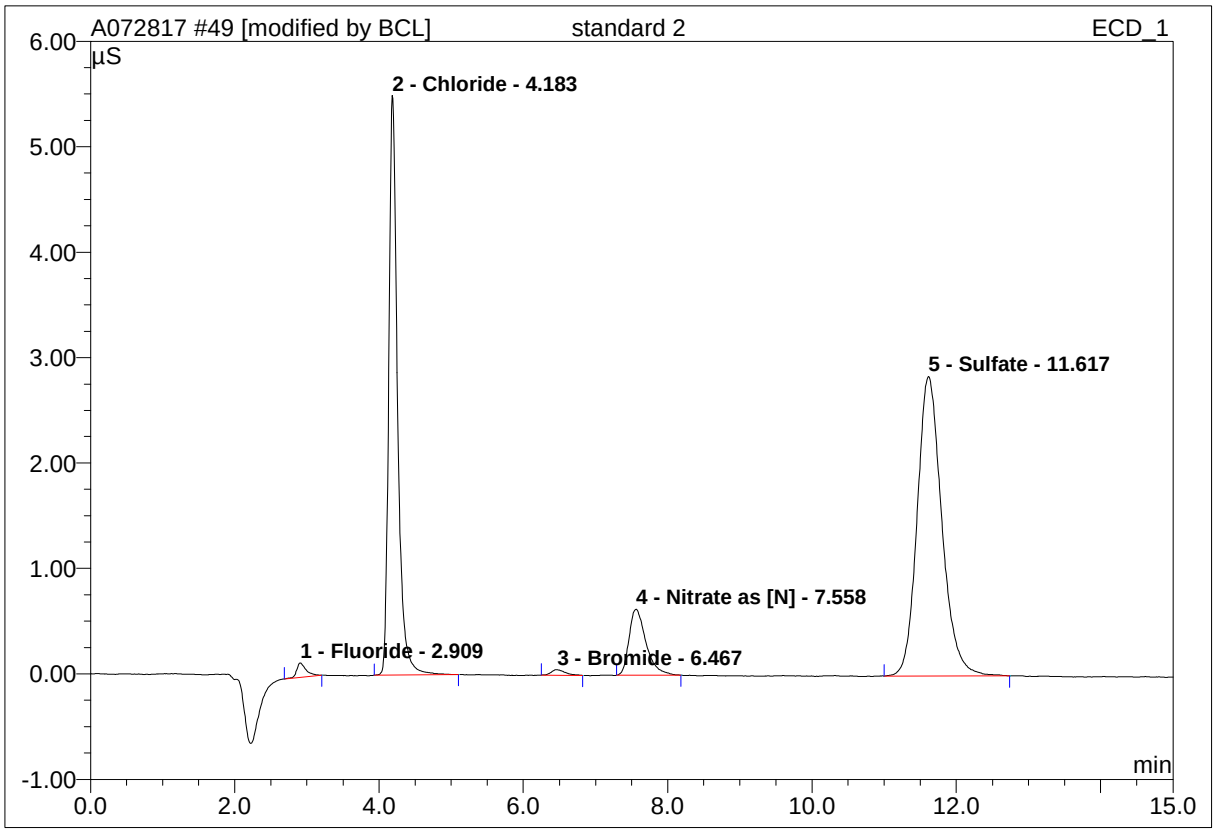
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	0.141	0.024	1.16	0.103	BMB
2	4.18	Chloride	5.495	0.772	36.70	4.143	BMB
3	6.47	Bromide	0.053	0.012	0.56	0.206	BMB
4	7.56	Nitrate as [N]	0.626	0.170	8.07	0.484	BMB
5	11.62	Sulfate	2.843	1.126	53.50	8.814	BMB
Total:			9.157	2.105	100.00	13.750	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

49 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 8:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



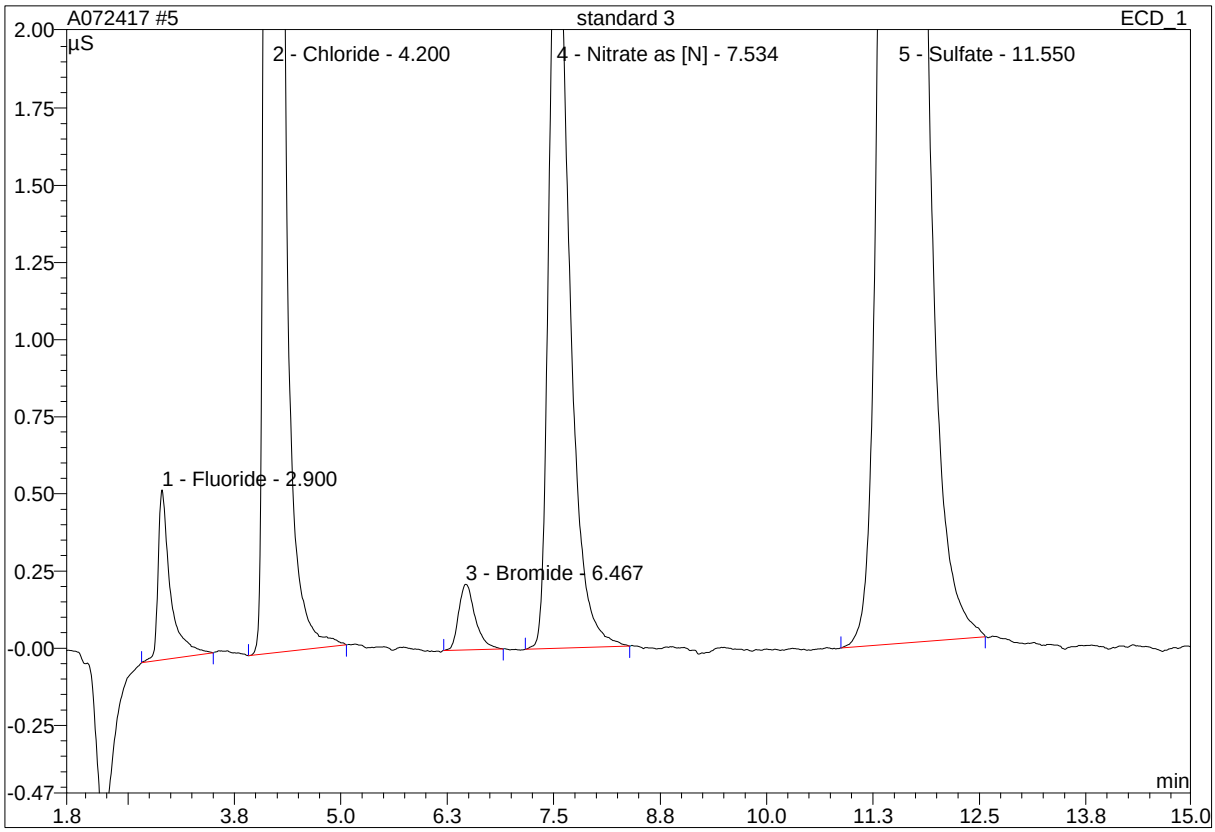
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	0.136	0.021	0.98	0.095	BMB*
2	4.18	Chloride	5.496	0.776	36.87	4.156	BMB*
3	6.47	Bromide	0.053	0.012	0.56	0.203	BMB
4	7.56	Nitrate as [N]	0.626	0.170	8.08	0.482	BMB
5	11.62	Sulfate	2.843	1.126	53.51	8.795	BMB
Total:			9.153	2.104	100.00	13.730	

modified on: 07.24.17 10:11 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 8:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



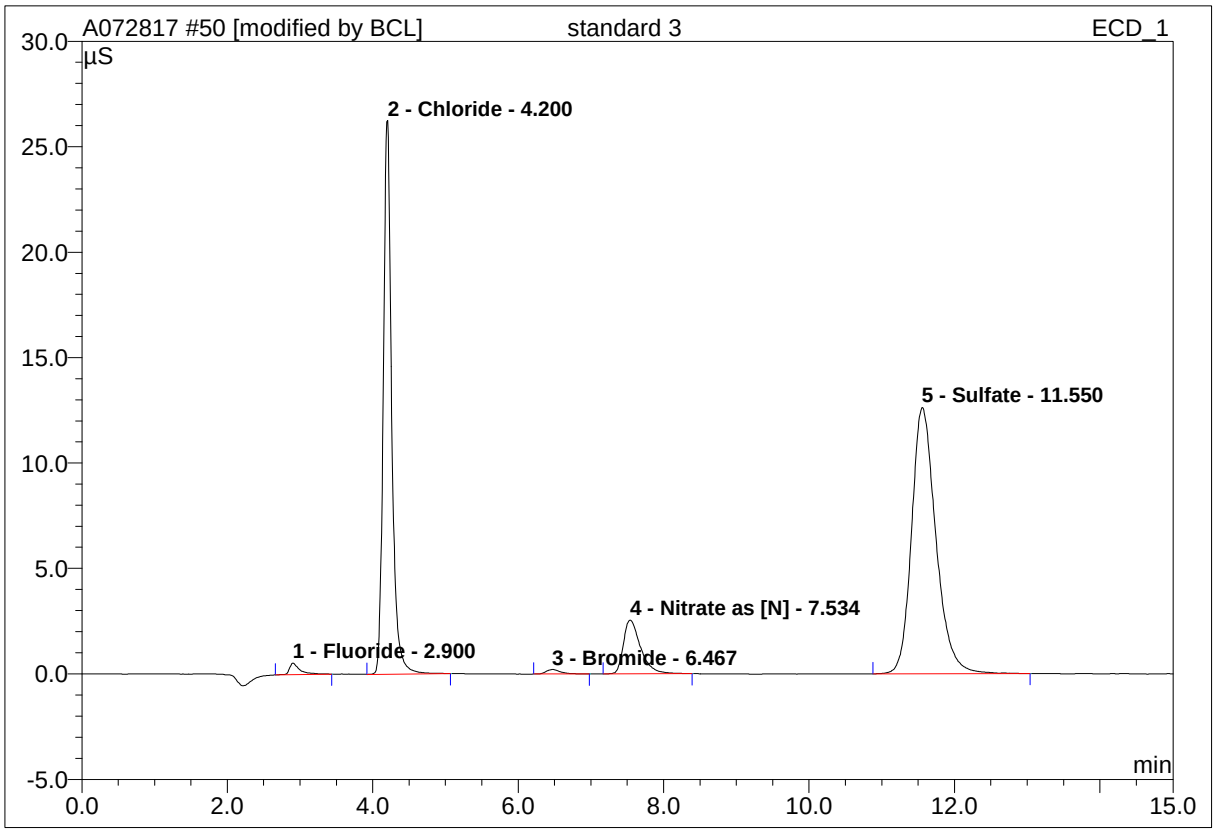
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.550	0.093	1.01	0.410	BMB
2	4.20	Chloride	26.257	3.504	38.05	18.055	BMB
3	6.47	Bromide	0.213	0.048	0.52	0.791	BMB
4	7.53	Nitrate as [N]	2.554	0.700	7.60	1.935	BMB
5	11.55	Sulfate	12.626	4.865	52.83	36.744	BMB
Total:			42.201	9.210	100.00	57.935	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

50 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 8:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.548	0.090	0.97	0.409	BMB*
2	4.20	Chloride	26.257	3.504	37.93	18.039	BMB
3	6.47	Bromide	0.214	0.049	0.53	0.804	BMB*
4	7.53	Nitrate as [N]	2.554	0.700	7.58	1.929	BMB
5	11.55	Sulfate	12.637	4.895	52.99	36.898	BMB*
Total:			42.210	9.238	100.00	58.079	

modified on: 07.24.17 10:11 By: OLH/EMW

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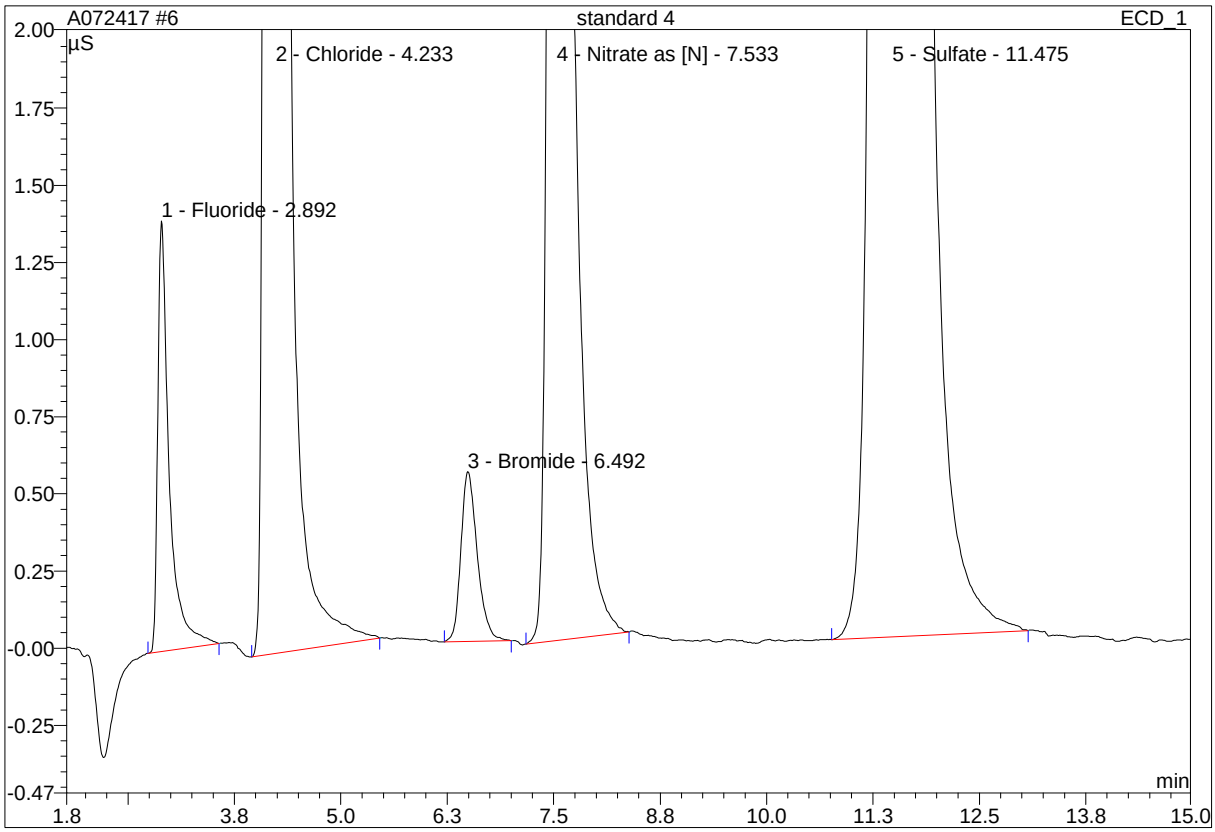
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



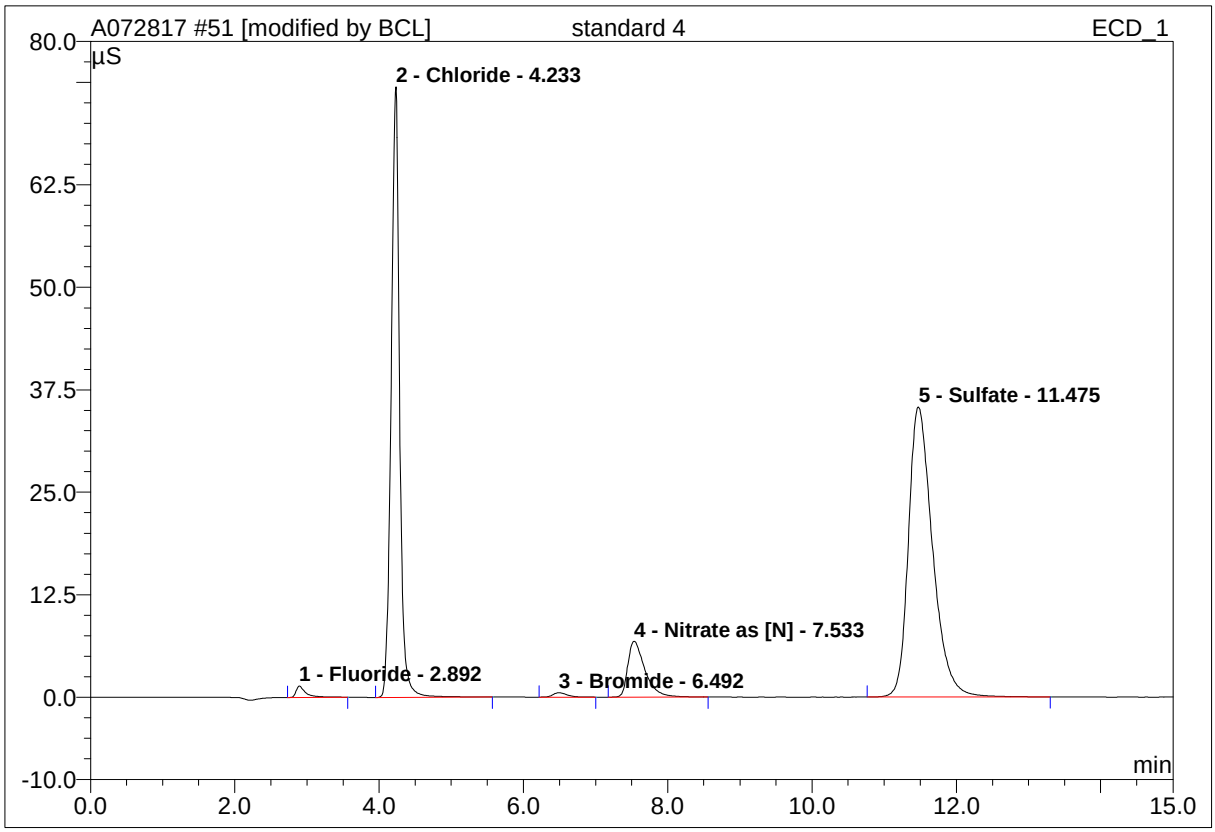
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.396	0.218	0.84	0.970	BMB
2	4.23	Chloride	74.475	10.094	38.81	49.997	BMB
3	6.49	Bromide	0.550	0.123	0.47	1.988	BMB
4	7.53	Nitrate as [N]	6.807	1.862	7.16	4.937	BMB
5	11.48	Sulfate	35.385	13.712	52.72	99.001	BMB
Total:			118.613	26.009	100.00	156.893	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

51 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.396	0.218	0.84	0.981	BMB
2	4.23	Chloride	74.476	10.099	38.78	49.935	BMB*
3	6.49	Bromide	0.550	0.123	0.47	1.984	BMB
4	7.53	Nitrate as [N]	6.812	1.873	7.19	4.955	BMB*
5	11.48	Sulfate	35.389	13.732	52.72	99.005	BMB*
Total:			118.623	26.045	100.00	156.860	

modified on: 07.24.17 10:11 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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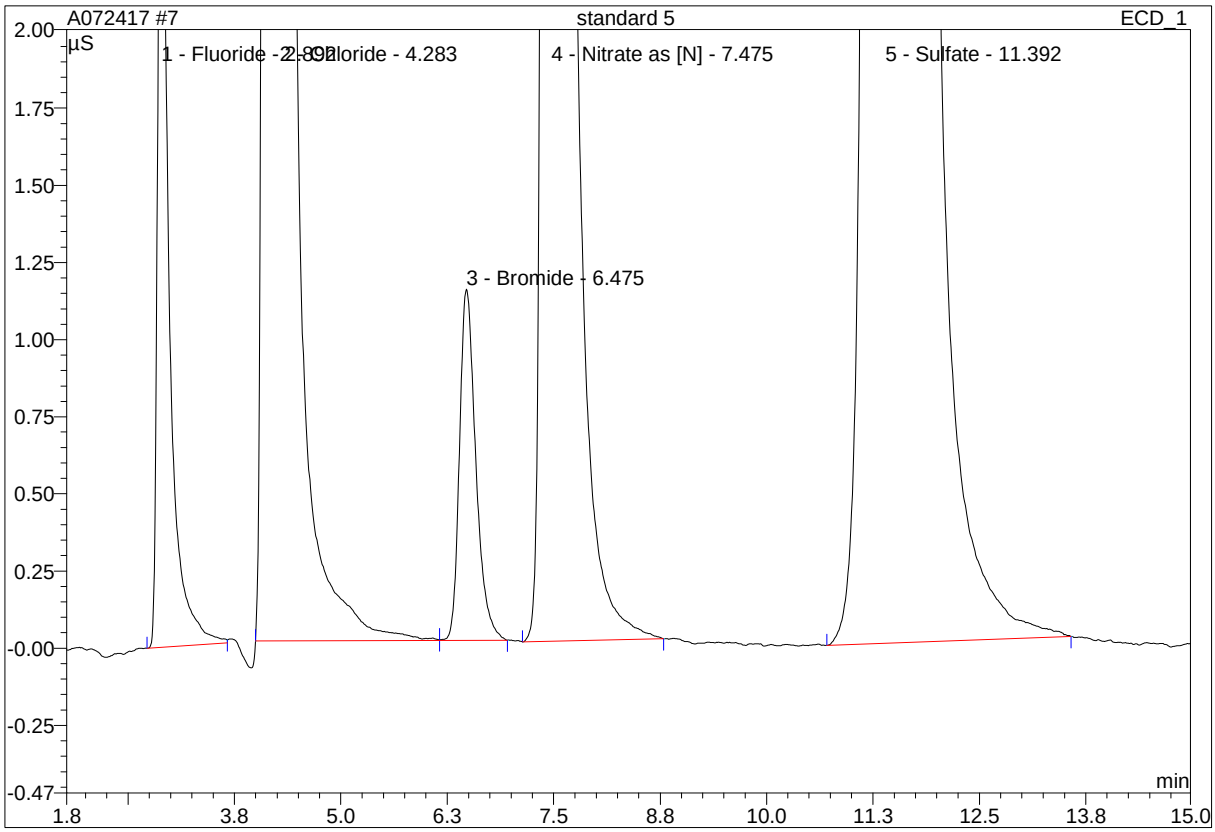
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



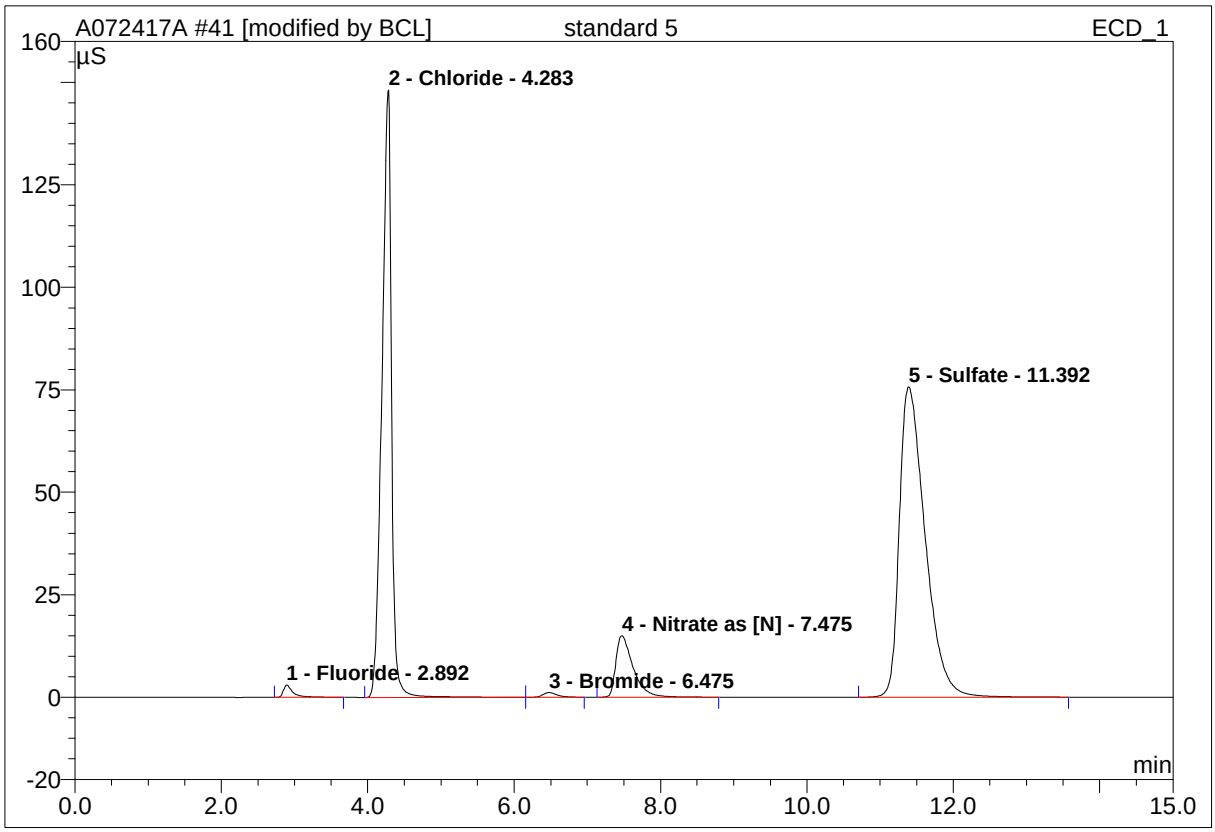
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	3.008	0.456	0.79	2.024	BM
2	4.28	Chloride	148.081	22.303	38.44	104.256	BM
3	6.48	Bromide	1.138	0.253	0.44	4.030	MB
4	7.48	Nitrate as [N]	14.986	4.109	7.08	10.196	BMB
5	11.39	Sulfate	75.744	30.898	53.26	207.966	BMB
Total:			242.956	58.018	100.00	328.472	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

41 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



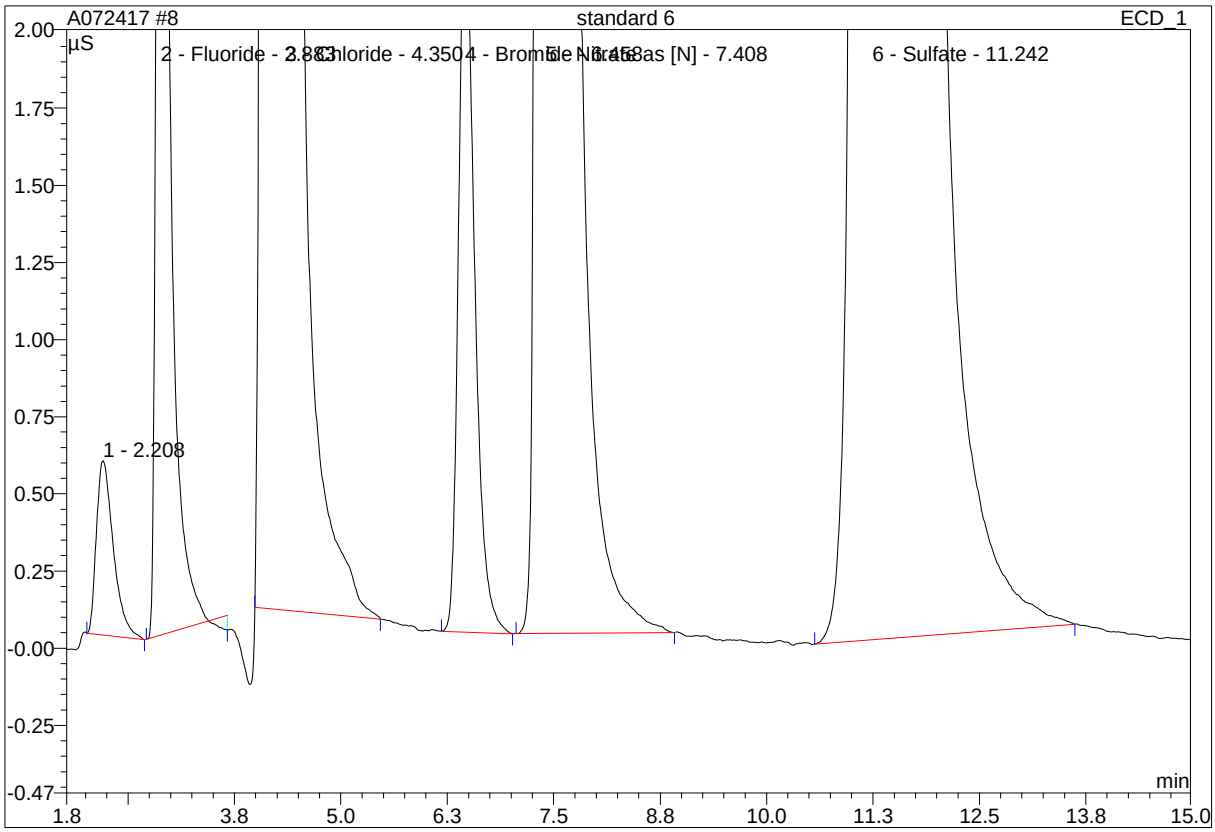
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	3.008	0.456	0.78	2.018	BM
2	4.28	Chloride	148.154	22.393	38.54	104.322	BMb*
3	6.48	Bromide	1.137	0.252	0.43	4.017	bMB*
4	7.48	Nitrate as [N]	14.986	4.109	7.07	10.184	BMB
5	11.39	Sulfate	75.744	30.898	53.17	207.763	BMB
Total:			243.028	58.108	100.00	328.305	

modified on: 07.24.17 10:12 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



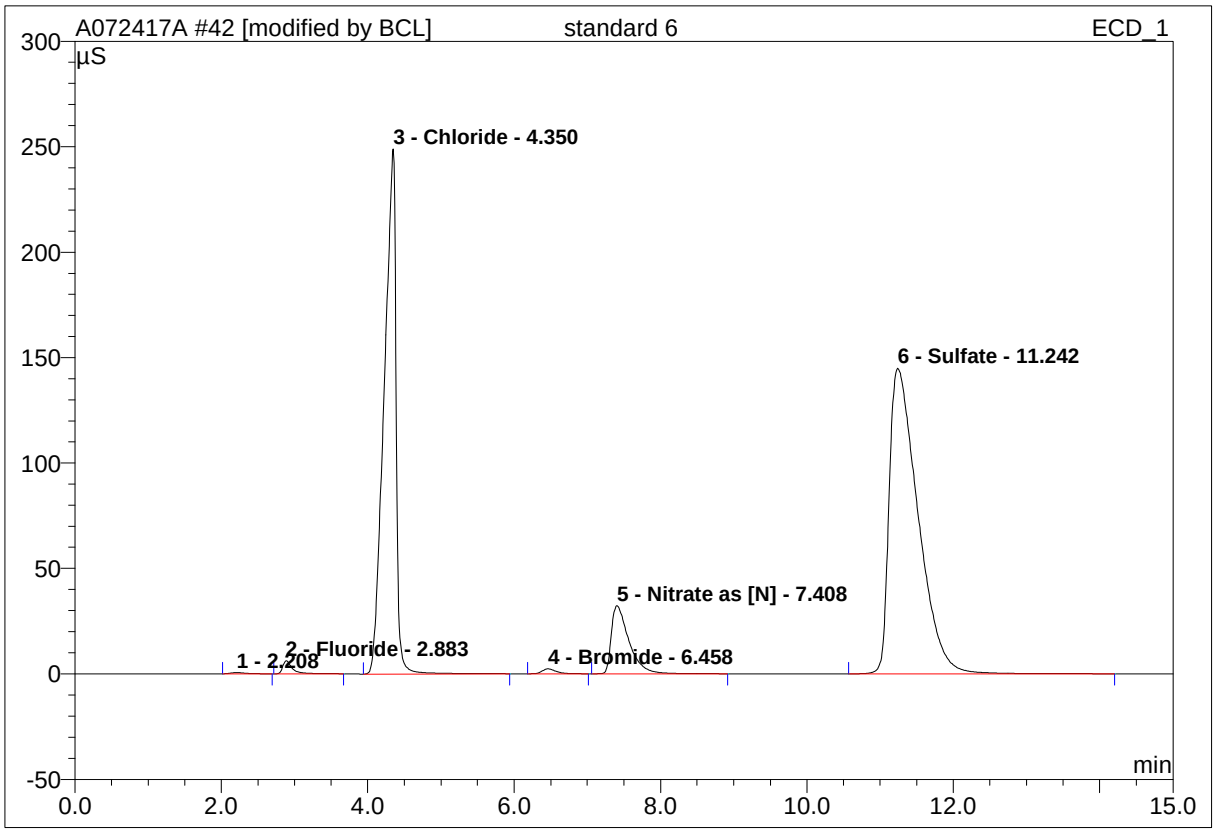
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.564	0.130	0.11	n.a.	BMB
2	2.88	Fluoride	6.239	0.912	0.74	3.994	BM
3	4.35	Chloride	248.860	46.504	37.83	198.350	BMB
4	6.46	Bromide	2.337	0.512	0.42	7.989	BMB
5	7.41	Nitrate as [N]	32.220	8.983	7.31	19.935	BMB
6	11.24	Sulfate	144.934	65.874	53.59	397.137	BMB
Total:			435.153	122.914	100.00	627.406	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

42 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



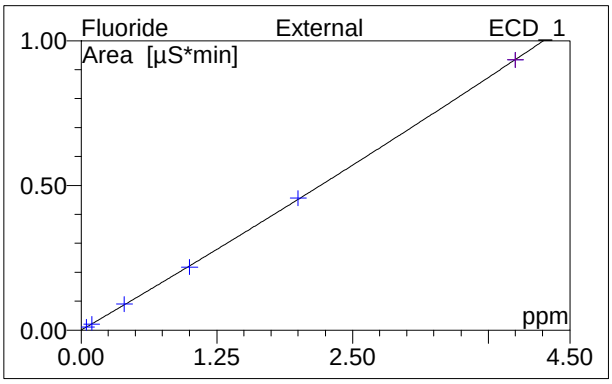
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.564	0.130	0.11	n.a.	BMB
2	2.88	Fluoride	6.247	0.934	0.76	3.995	BMB*
3	4.35	Chloride	249.064	46.765	37.94	198.340	BMB*
4	6.46	Bromide	2.337	0.512	0.42	7.995	BMB
5	7.41	Nitrate as [N]	32.220	8.983	7.29	19.937	BMB
6	11.24	Sulfate	144.942	65.934	53.49	397.209	BMB*
Total:			435.373	123.258	100.00	627.476	

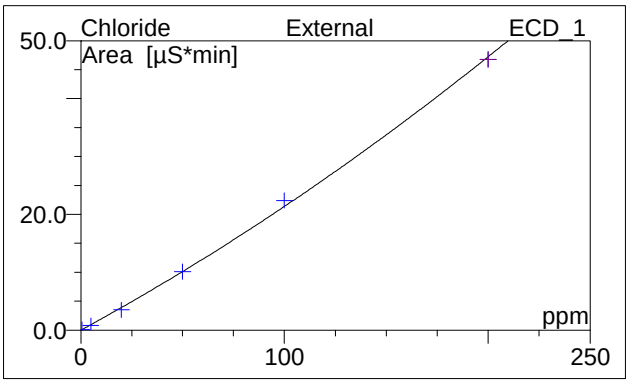
modified on: 07.24.17 10:12 By: OLH/EMW

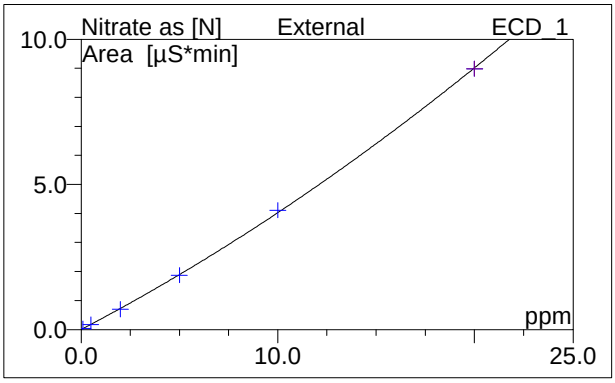
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

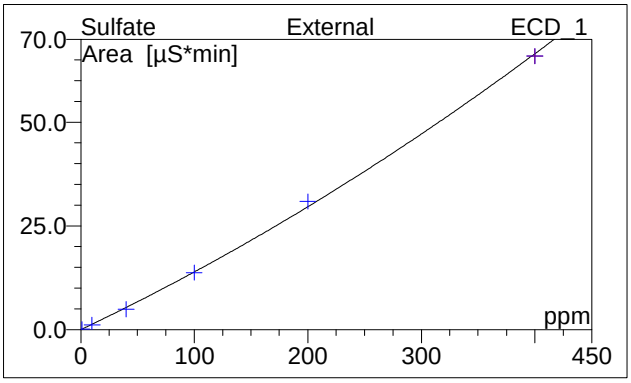
42 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/24/2017 9:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**





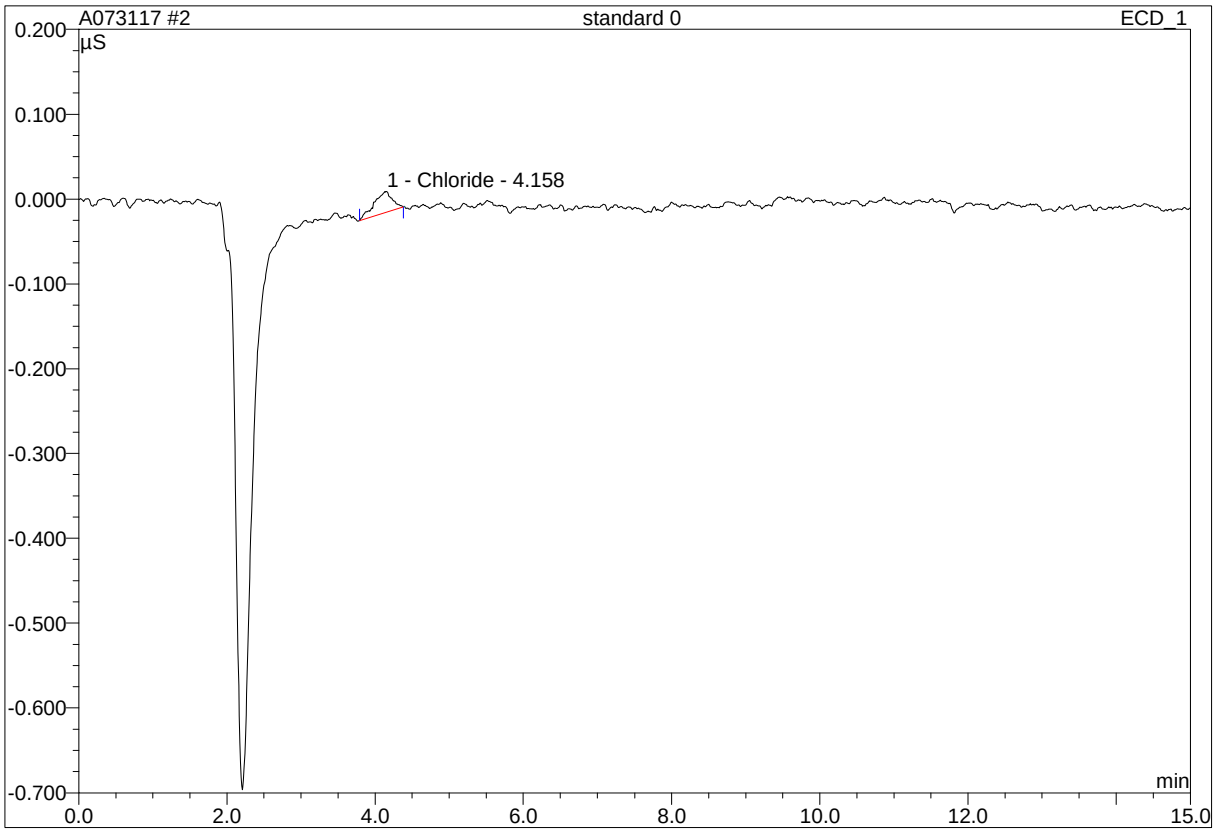




No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	2.21	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.88	Fluoride	XA0QOff	6	99.9692	-0.0003	0.2183	0.0039
3	4.35	Chloride	XA0QOff	6	99.7218	-0.0241	0.1916	0.0002
4	6.46	Bromide	XA0QOff	6	99.9913	-0.0007	0.0616	0.0003
5	7.41	Nitrate as [N]	XA0QOff	6	99.7152	-0.0019	0.3546	0.0048
6	11.24	Sulfate	XA0QOff	6	99.6714	-0.0238	0.1299	0.0001
Average:					99.8138	-0.0102	0.1912	0.0019

2 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 10:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



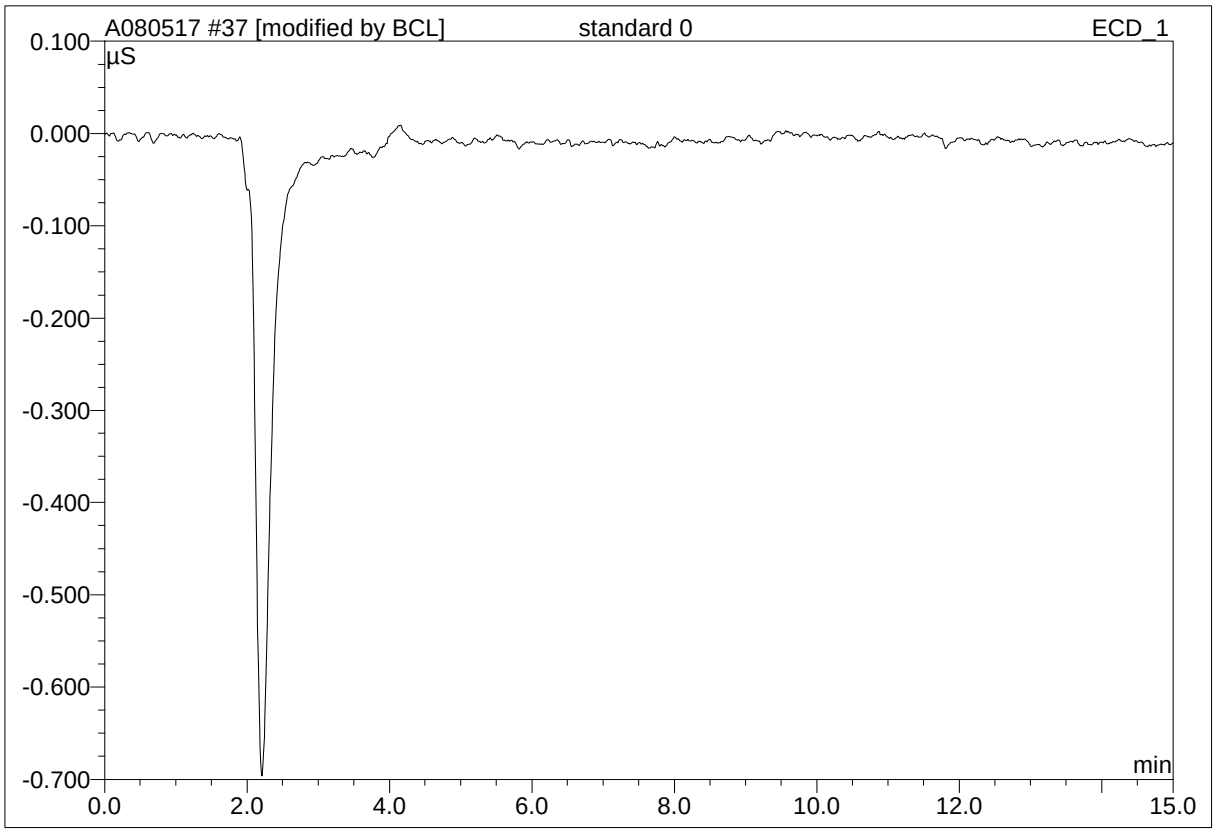
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.024	0.007	100.00	0.129	BMB
Total:			0.024	0.007	100.00	0.129	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

37 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 10:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



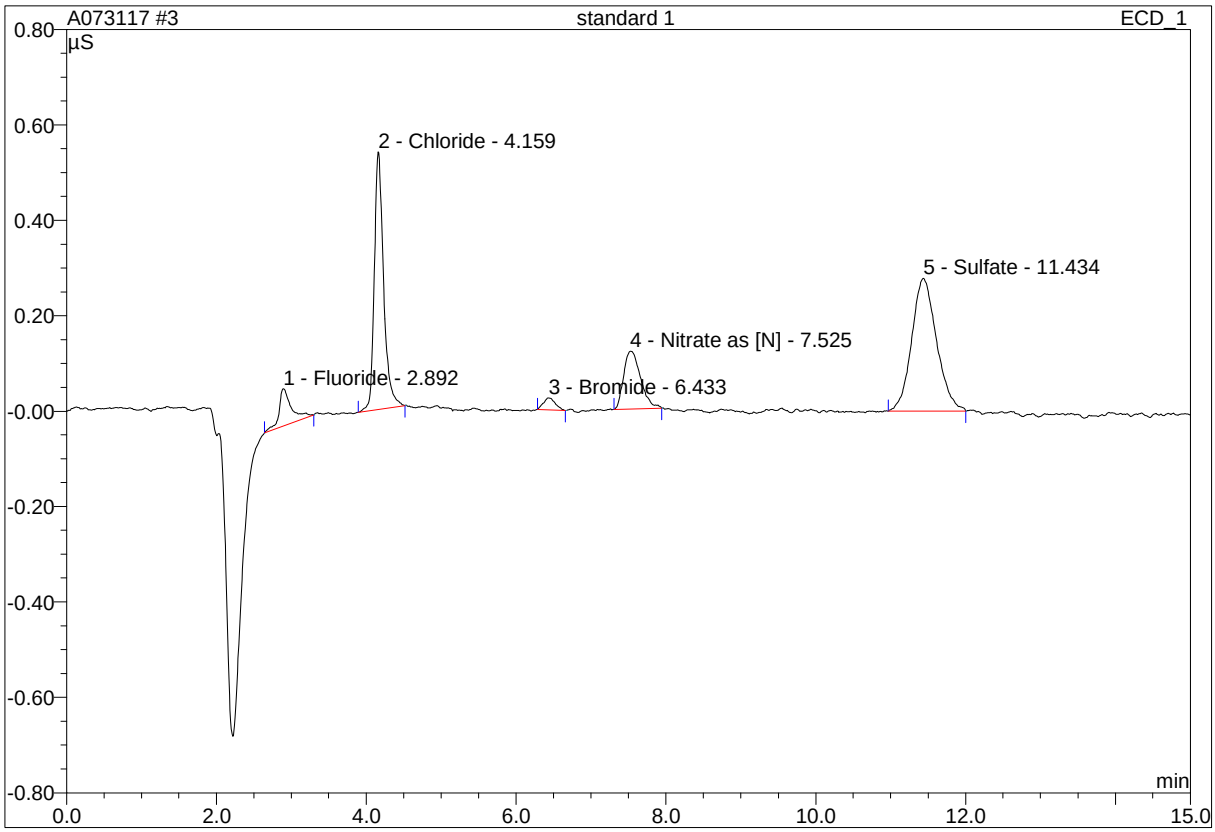
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.31.17 13:36 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



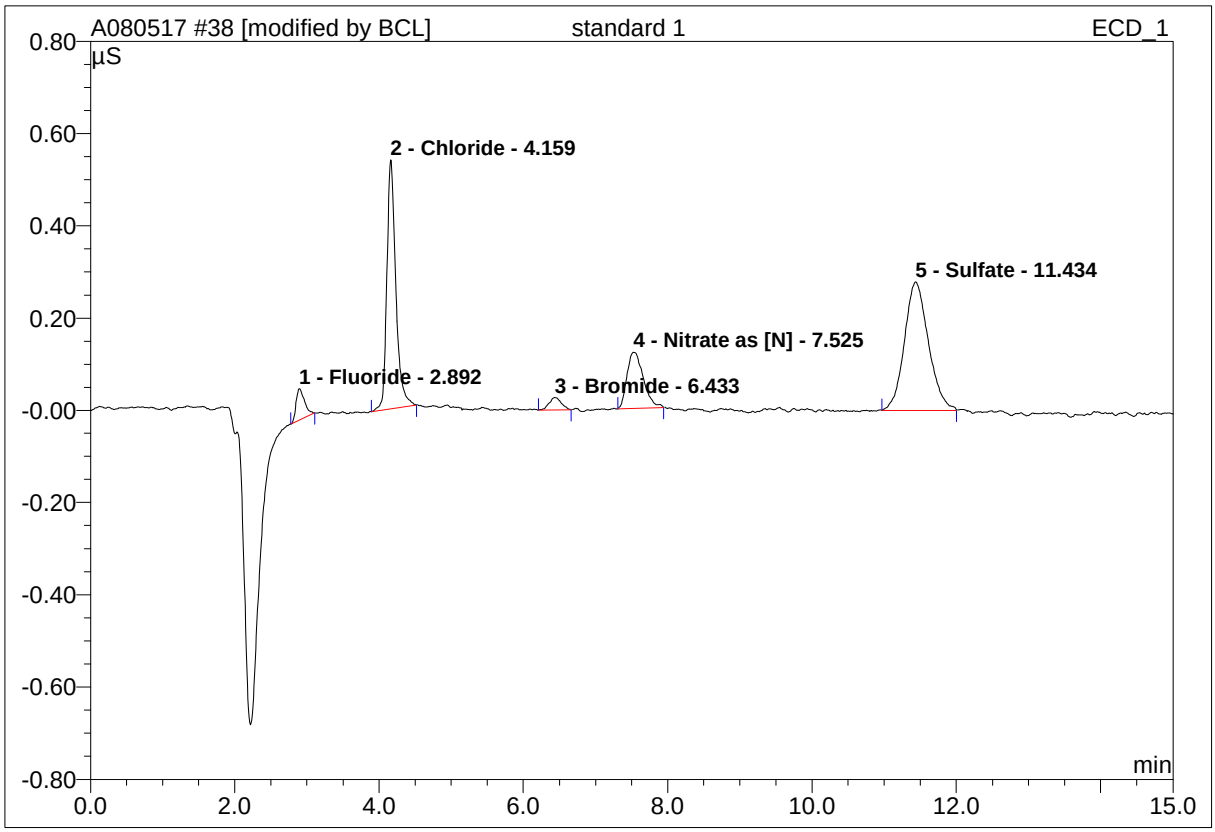
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.078	0.015	6.30	0.057	BMB
2	4.16	Chloride	0.540	0.078	32.84	0.544	BMB
3	6.43	Bromide	0.025	0.005	1.98	0.091	BMB
4	7.53	Nitrate as [N]	0.121	0.032	13.49	0.105	BMB
5	11.43	Sulfate	0.278	0.107	45.38	1.004	BMB
Total:			1.043	0.236	100.00	1.802	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



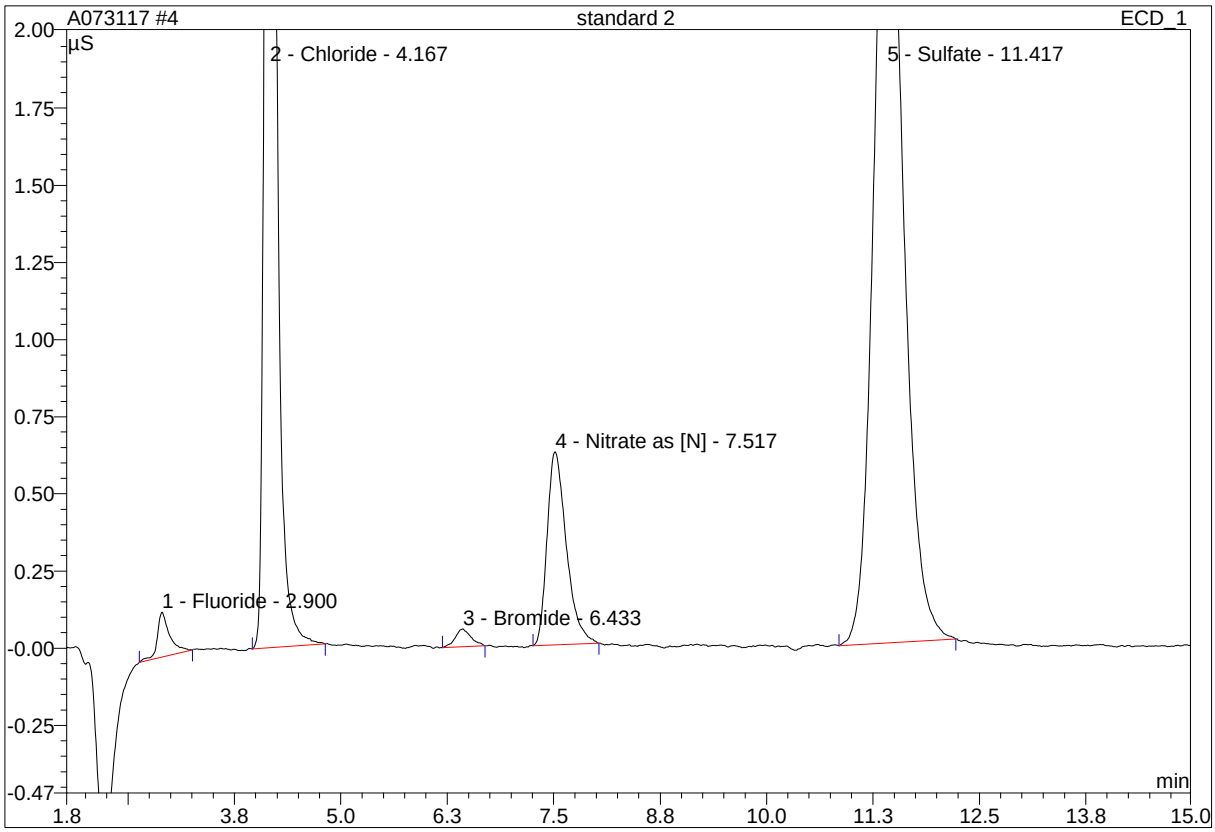
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.068	0.009	3.95	0.048	BMB*
2	4.16	Chloride	0.540	0.078	33.57	0.544	BMB
3	6.43	Bromide	0.027	0.005	2.28	0.095	BMB*
4	7.53	Nitrate as [N]	0.121	0.032	13.80	0.105	BMB
5	11.43	Sulfate	0.278	0.107	46.40	1.004	BMB
Total:			1.035	0.231	100.00	1.796	

modified on: 07.31.17 13:36 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



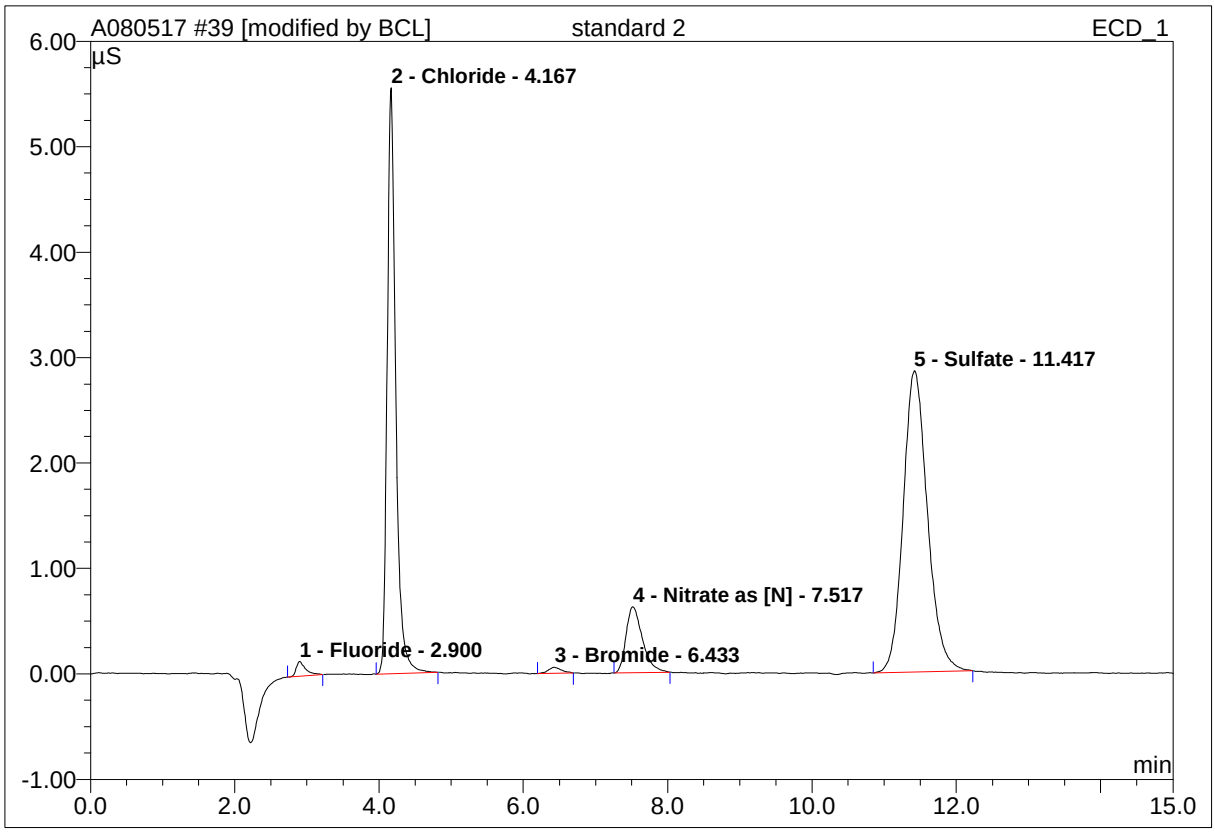
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.146	0.024	1.17	0.114	BMB
2	4.17	Chloride	5.557	0.767	36.87	4.177	BMB
3	6.43	Bromide	0.058	0.012	0.59	0.211	BMB
4	7.52	Nitrate as [N]	0.625	0.164	7.88	0.479	BMB
5	11.42	Sulfate	2.860	1.113	53.48	8.781	BMB
Total:			9.245	2.080	100.00	13.762	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

39 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



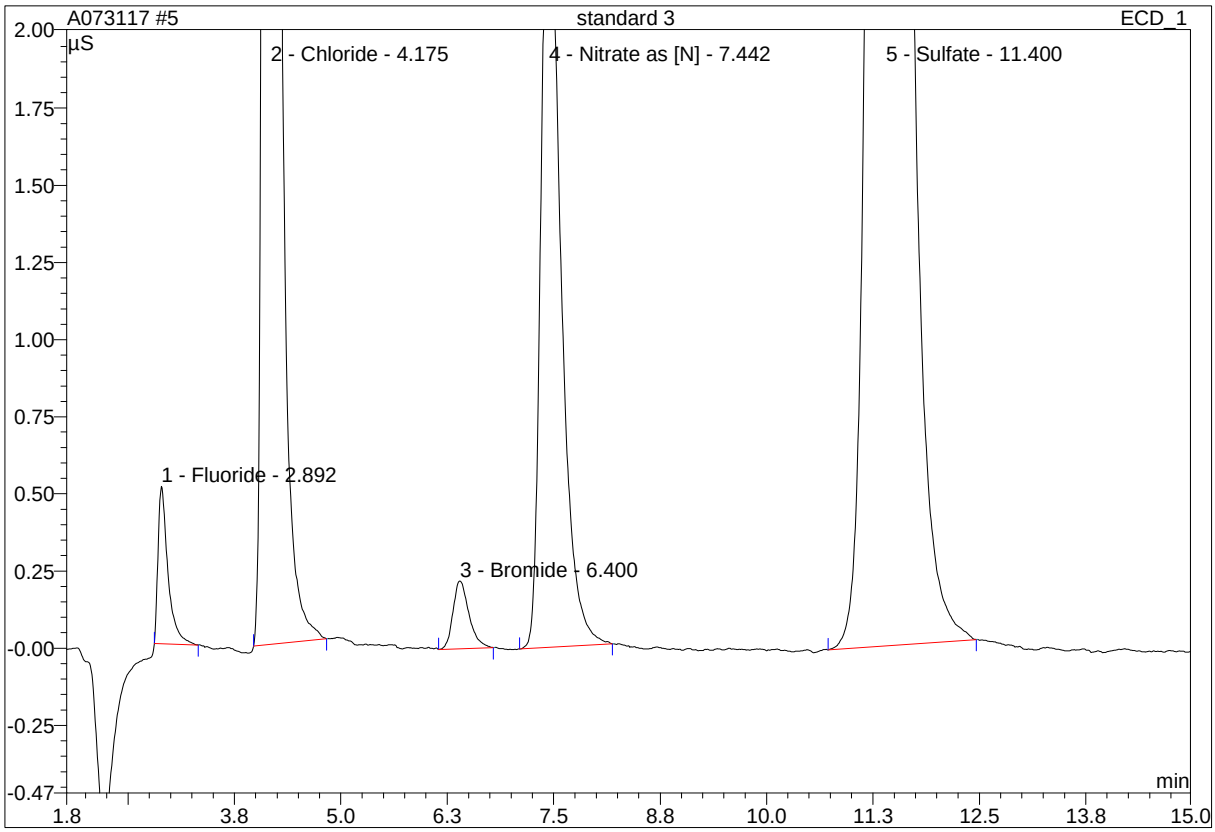
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.139	0.021	1.02	0.103	BMB*
2	4.17	Chloride	5.557	0.767	36.93	4.177	BMB
3	6.43	Bromide	0.058	0.012	0.59	0.211	BMB
4	7.52	Nitrate as [N]	0.625	0.164	7.89	0.479	BMB
5	11.42	Sulfate	2.860	1.113	53.57	8.781	BMB
Total:			9.238	2.077	100.00	13.751	

modified on: 07.31.17 13:37 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

5 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.510	0.069	0.76	0.338	BMB
2	4.18	Chloride	26.459	3.467	37.99	18.134	BMB
3	6.40	Bromide	0.219	0.048	0.52	0.788	BMB
4	7.44	Nitrate as [N]	2.609	0.690	7.56	1.932	BMB
5	11.40	Sulfate	12.754	4.851	53.16	36.978	BMB
Total:			42.552	9.124	100.00	58.170	

modified on: n.a. By: OLH/EMW

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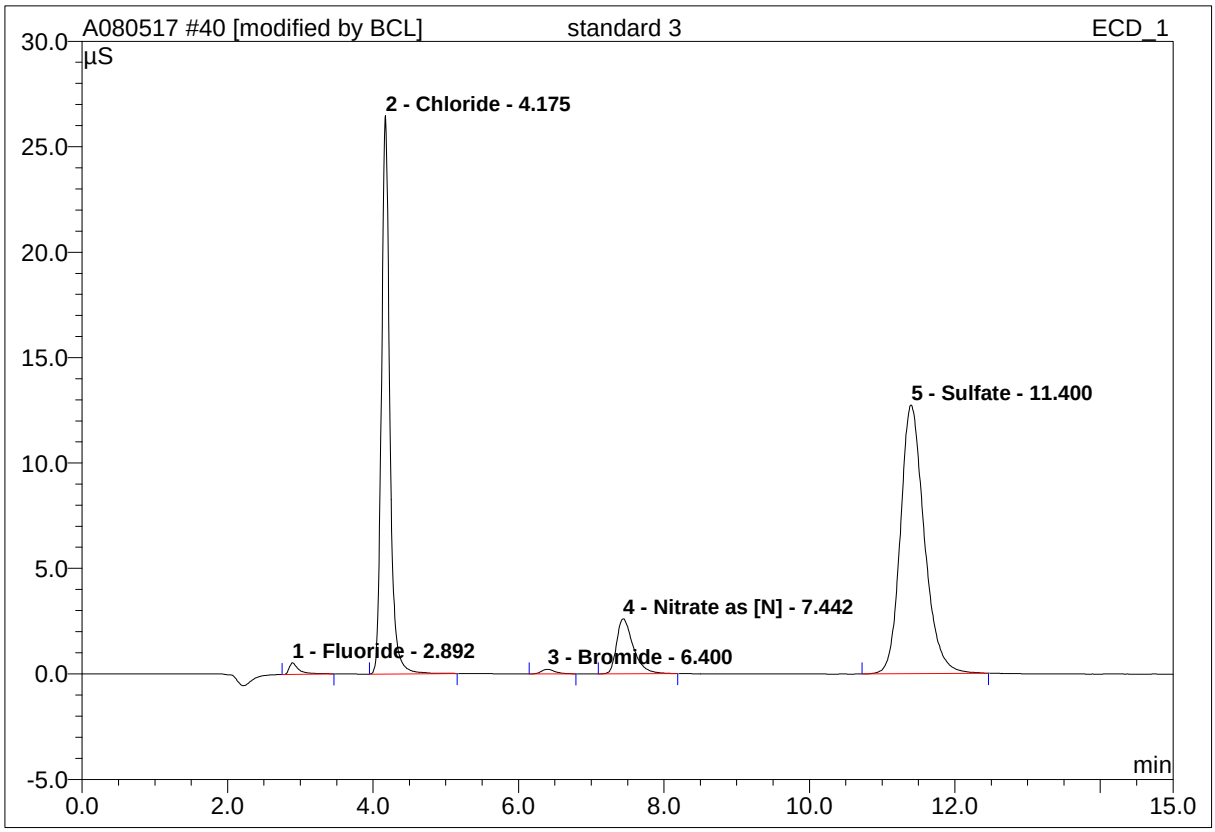
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

40 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



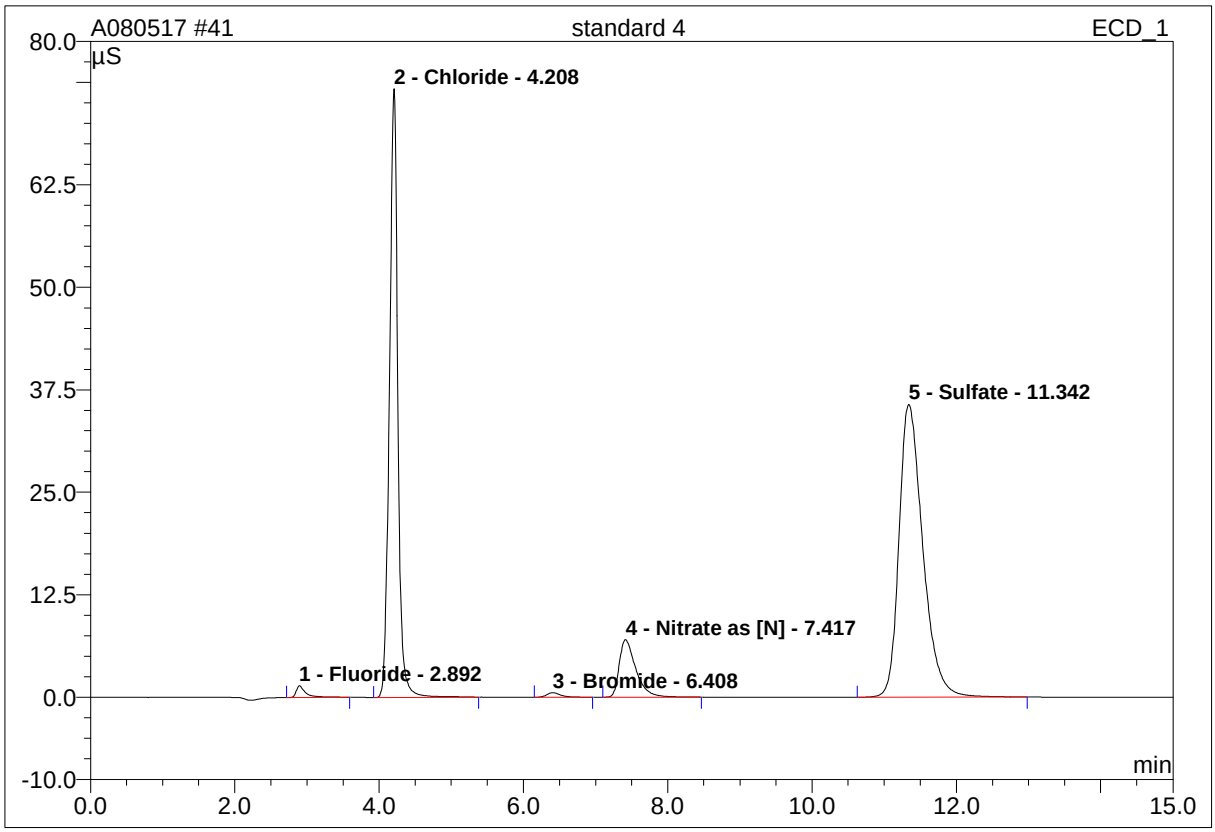
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.550	0.086	0.94	0.403	BMB*
2	4.18	Chloride	26.479	3.491	38.09	18.232	BMB*
3	6.40	Bromide	0.219	0.048	0.52	0.788	BMB
4	7.44	Nitrate as [N]	2.609	0.690	7.53	1.932	BMB
5	11.40	Sulfate	12.754	4.851	52.92	36.978	BMB
Total:			42.611	9.166	100.00	58.333	

modified on: 07.31.17 13:37 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

41 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 11:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



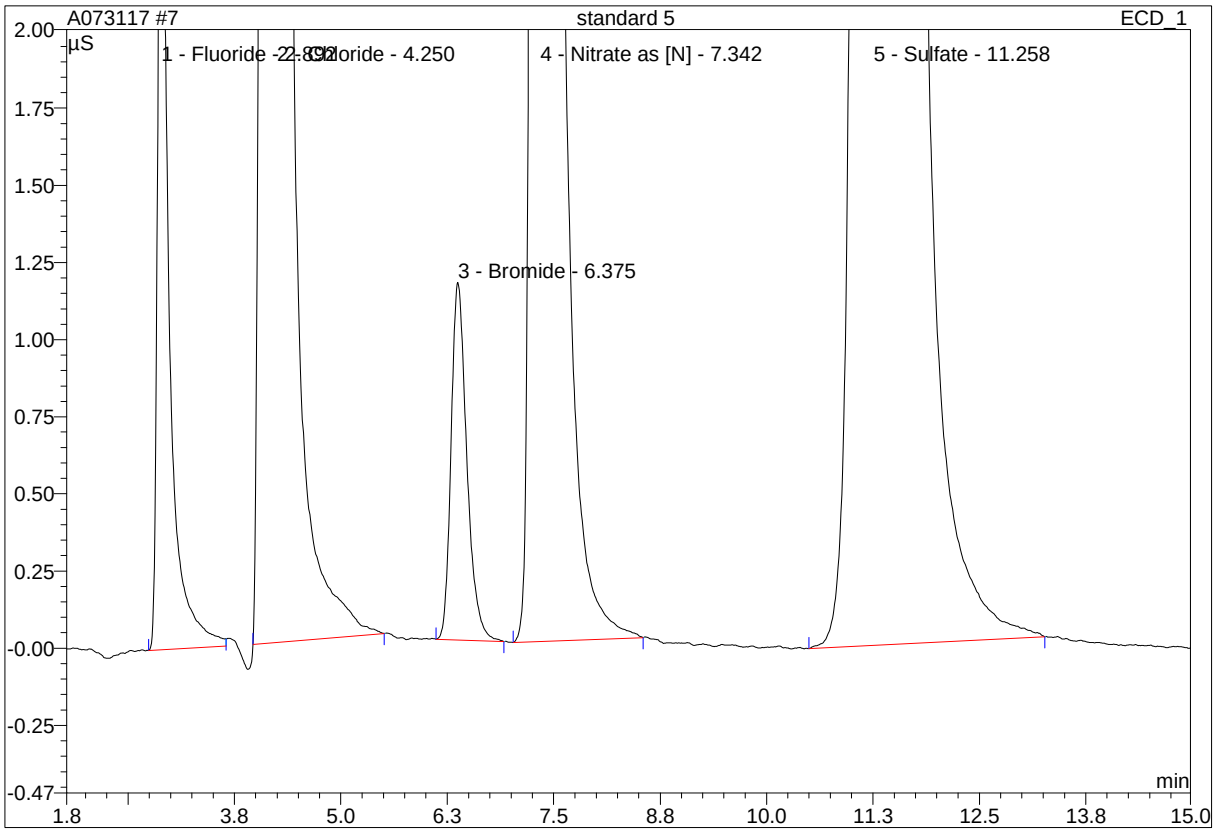
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.422	0.219	0.85	1.001	BMB
2	4.21	Chloride	74.239	9.991	38.69	50.049	BMB
3	6.41	Bromide	0.560	0.123	0.48	2.006	BMB
4	7.42	Nitrate as [N]	7.005	1.863	7.21	4.984	BMB
5	11.34	Sulfate	35.736	13.628	52.77	99.290	BMB
Total:			118.962	25.823	100.00	157.329	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 12:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



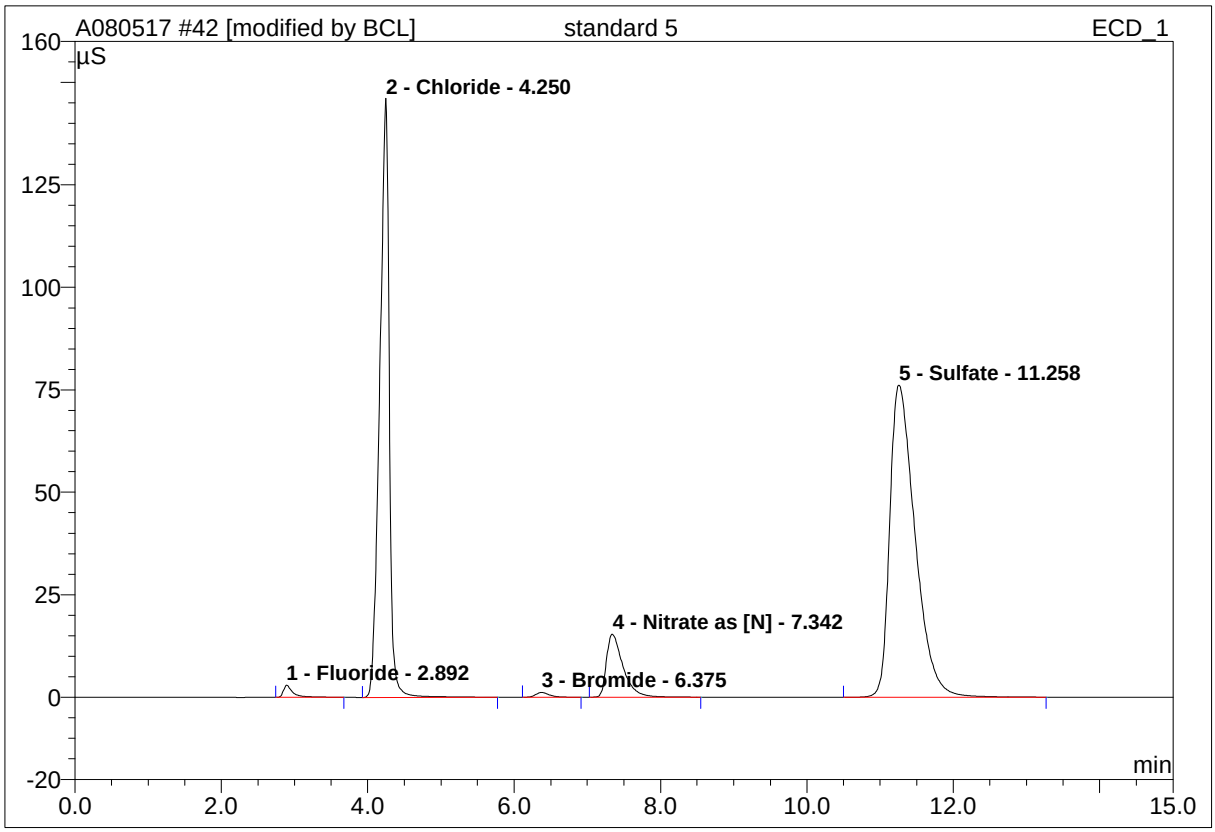
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	2.968	0.454	0.79	2.020	BM
2	4.25	Chloride	146.042	21.942	38.35	103.598	BMB
3	6.38	Bromide	1.159	0.248	0.43	4.002	BMB
4	7.34	Nitrate as [N]	15.385	4.052	7.08	10.147	BMB
5	11.26	Sulfate	76.185	30.517	53.34	207.249	BMB
Total:			241.739	57.214	100.00	327.016	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

42 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 12:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	2.964	0.443	0.77	1.992	BMB*
2	4.25	Chloride	146.111	22.032	38.46	103.835	BMB*
3	6.38	Bromide	1.159	0.248	0.43	4.002	BMB
4	7.34	Nitrate as [N]	15.385	4.052	7.07	10.147	BMB
5	11.26	Sulfate	76.185	30.517	53.27	207.249	BMB
Total:			241.804	57.293	100.00	327.225	

modified on: 07.31.17 13:37 By: OLH/EMW

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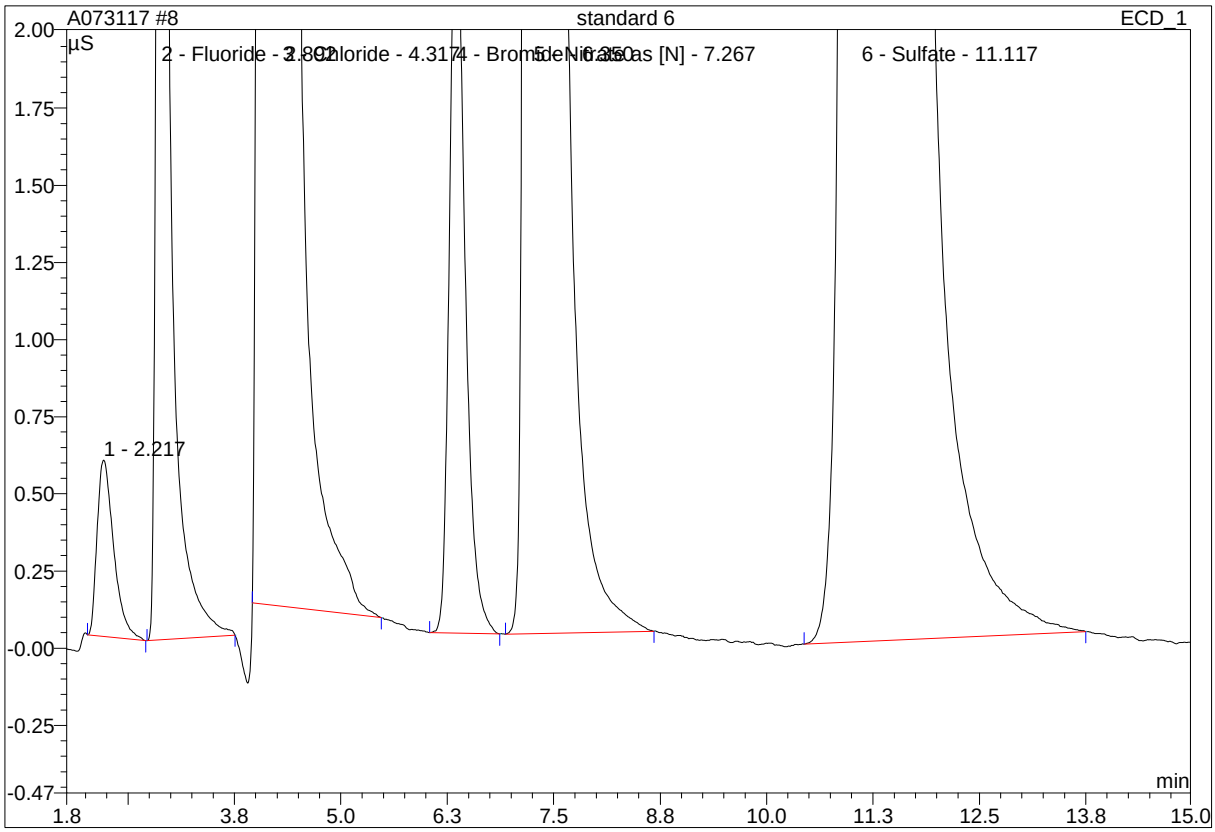
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 12:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



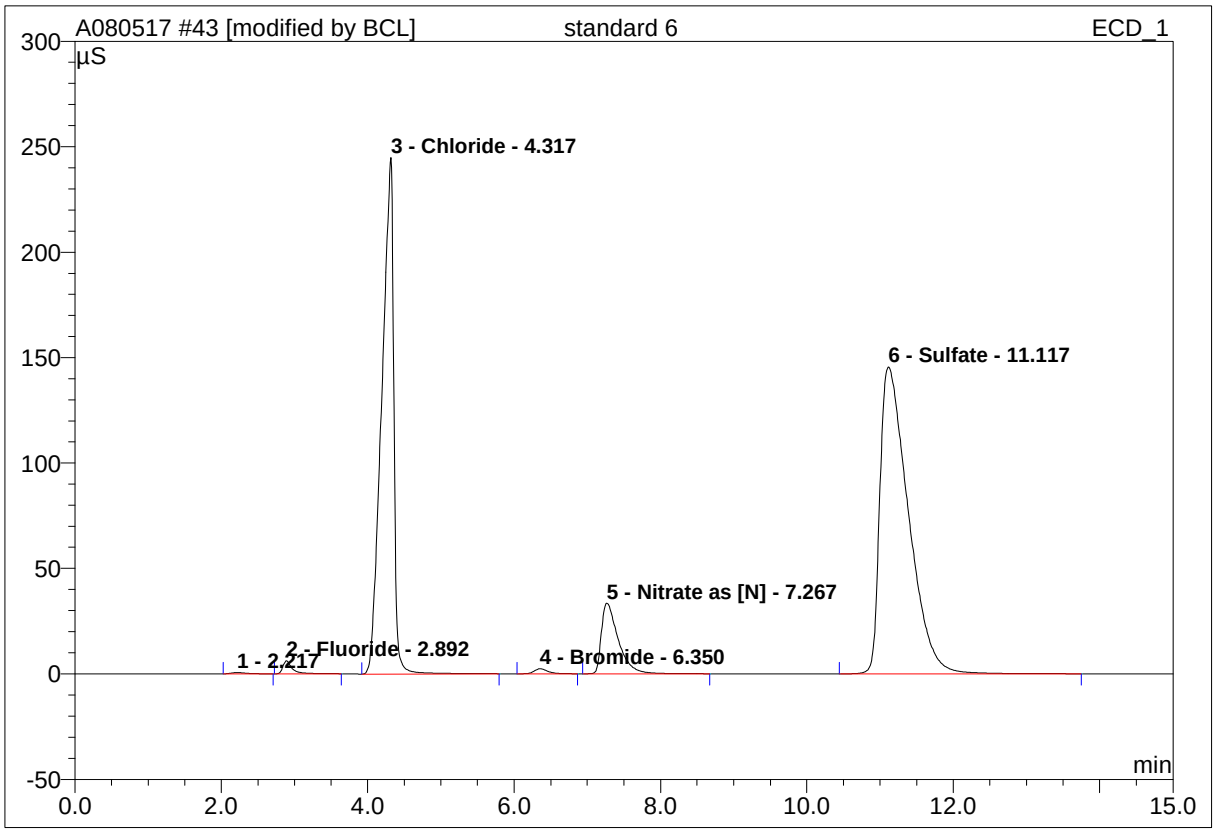
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.22	n.a.	0.571	0.129	0.11	n.a.	BMB
2	2.89	Fluoride	6.184	0.927	0.76	4.005	BMB
3	4.32	Chloride	244.711	46.189	37.82	198.456	BMB
4	6.35	Bromide	2.389	0.508	0.42	7.999	BMB
5	7.27	Nitrate as [N]	33.416	8.922	7.31	19.948	BMB
6	11.12	Sulfate	145.545	65.447	53.59	397.370	BMB
Total:			432.815	122.122	100.00	627.777	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

43 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**IC1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 12:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



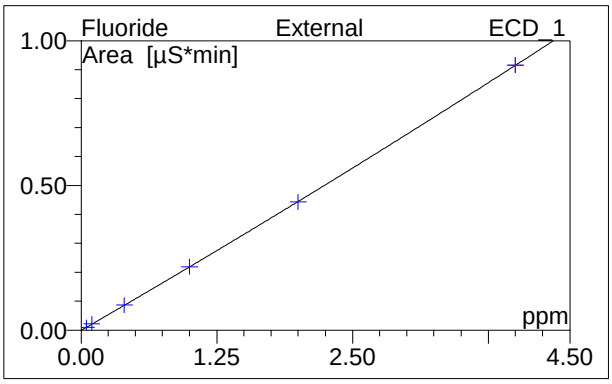
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.22	n.a.	0.571	0.129	0.11	n.a.	BMB
2	2.89	Fluoride	6.181	0.916	0.75	4.003	BMB*
3	4.32	Chloride	244.919	46.444	37.96	198.517	BMB*
4	6.35	Bromide	2.389	0.508	0.42	7.999	BMB
5	7.27	Nitrate as [N]	33.416	8.922	7.29	19.948	BMB
6	11.12	Sulfate	145.545	65.447	53.48	397.370	BMB
Total:			433.019	122.367	100.00	627.837	

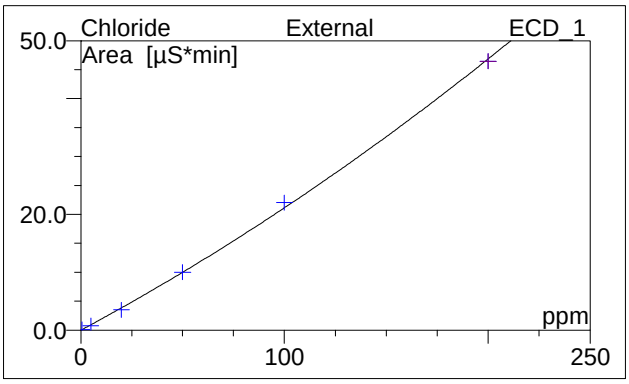
modified on: 07.31.17 13:38 By: OLH/EMW

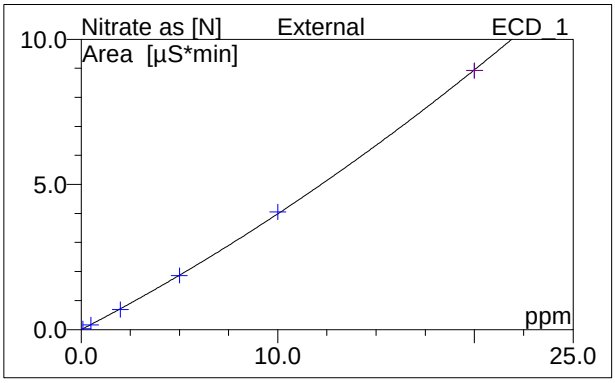
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

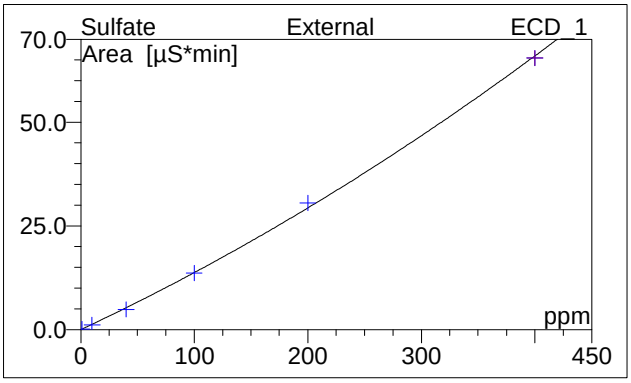
43 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**25.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/31/2017 12:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**







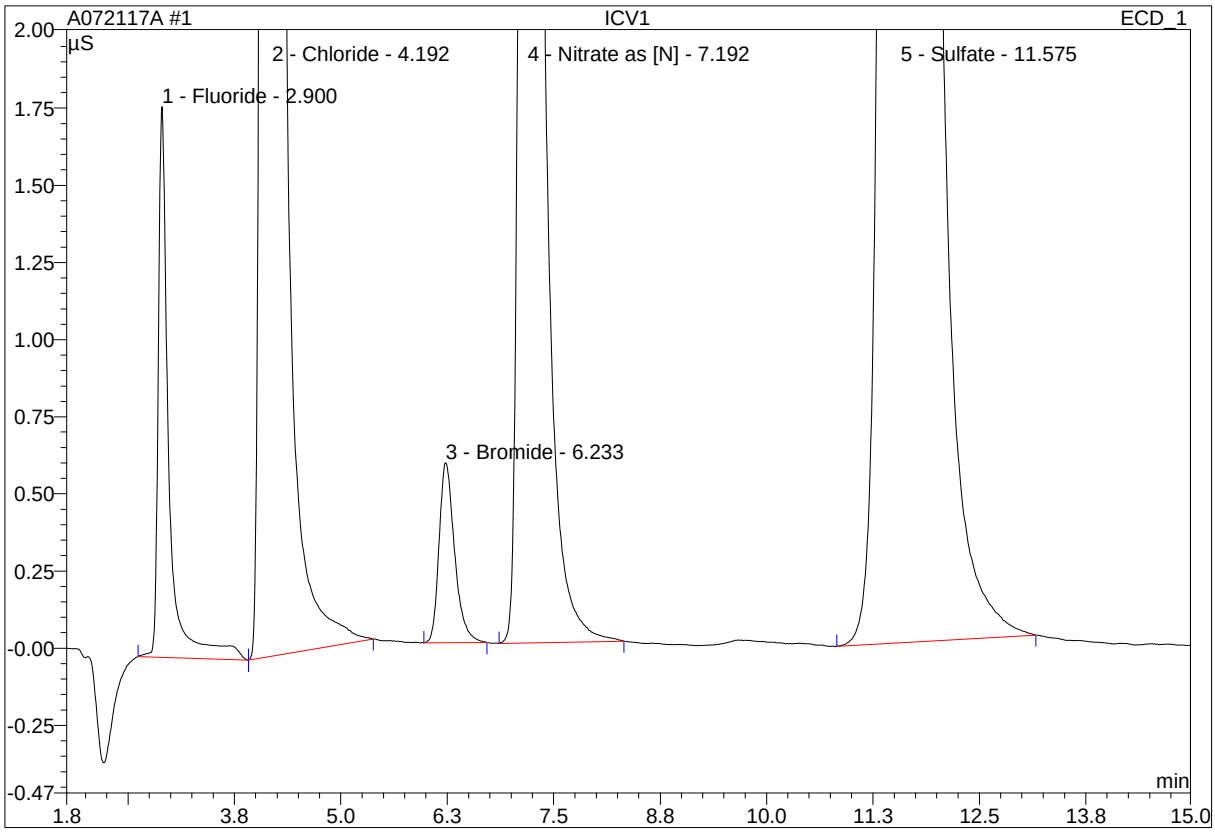


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	2.22	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.89	Fluoride	XA0QOff	6	99.9831	-0.0013	0.2166	0.0031
3	4.32	Chloride	XA0QOff	6	99.7198	-0.0251	0.1887	0.0002
4	6.35	Bromide	XA0QOff	6	99.9863	-0.0005	0.0608	0.0004
5	7.27	Nitrate as [N]	XA0QOff	6	99.7092	-0.0051	0.3505	0.0049
6	11.12	Sulfate	XA0QOff	6	99.6654	-0.0219	0.1284	0.0001
Average:					99.8128	-0.0108	0.1890	0.0017

Raw Data - ICV

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



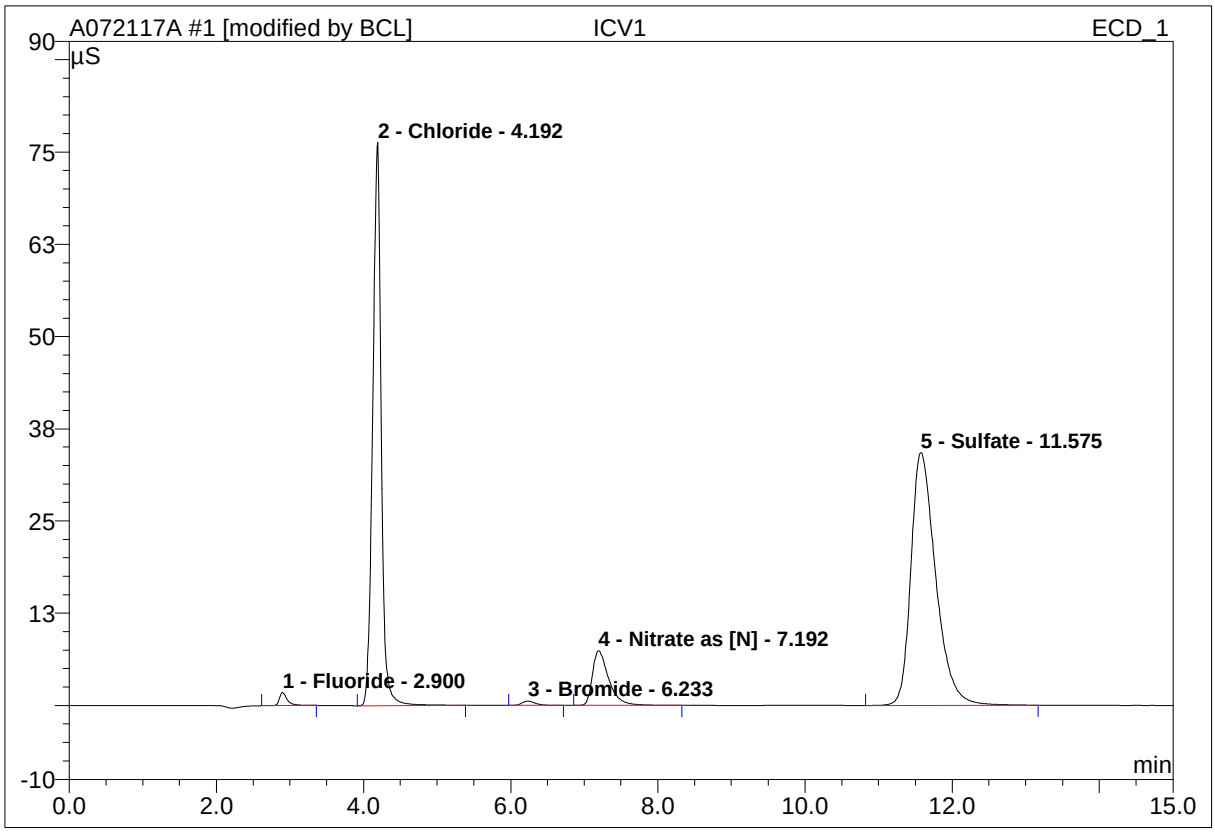
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.784	0.258	1.00	1.139	BMb
2	4.19	Chloride	76.327	10.190	39.47	50.857	bMB
3	6.23	Bromide	0.583	0.123	0.48	2.026	BMB
4	7.19	Nitrate as [N]	7.406	1.896	7.35	5.015	BMB
5	11.58	Sulfate	34.234	13.352	51.71	97.712	BMB
Total:			120.333	25.820	100.00	156.749	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



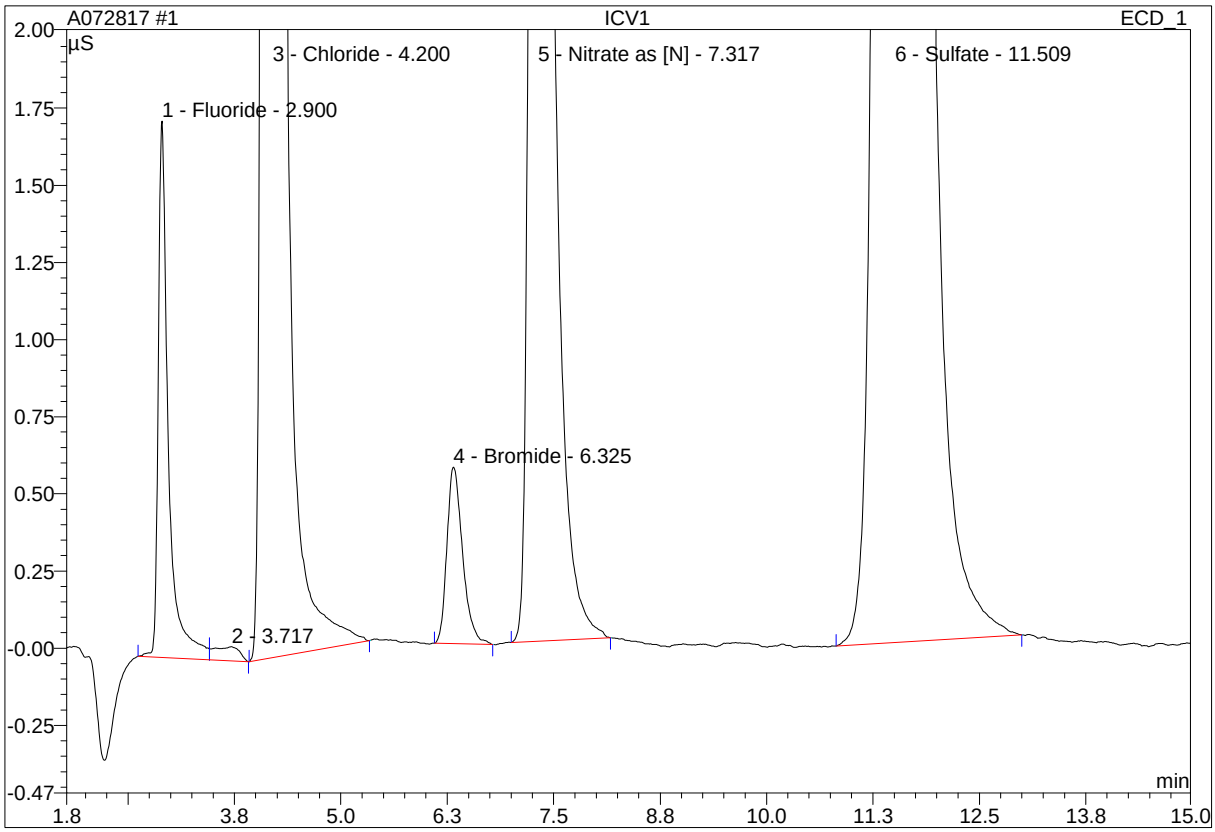
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.766	0.220	0.86	0.976	BMB*
2	4.19	Chloride	76.327	10.190	39.52	50.857	BMB*
3	6.23	Bromide	0.583	0.123	0.48	2.026	BMB
4	7.19	Nitrate as [N]	7.406	1.896	7.36	5.015	BMB
5	11.58	Sulfate	34.234	13.352	51.79	97.712	BMB
Total:			120.315	25.782	100.00	156.586	

modified on: 07.22.17 01:38 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 15:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



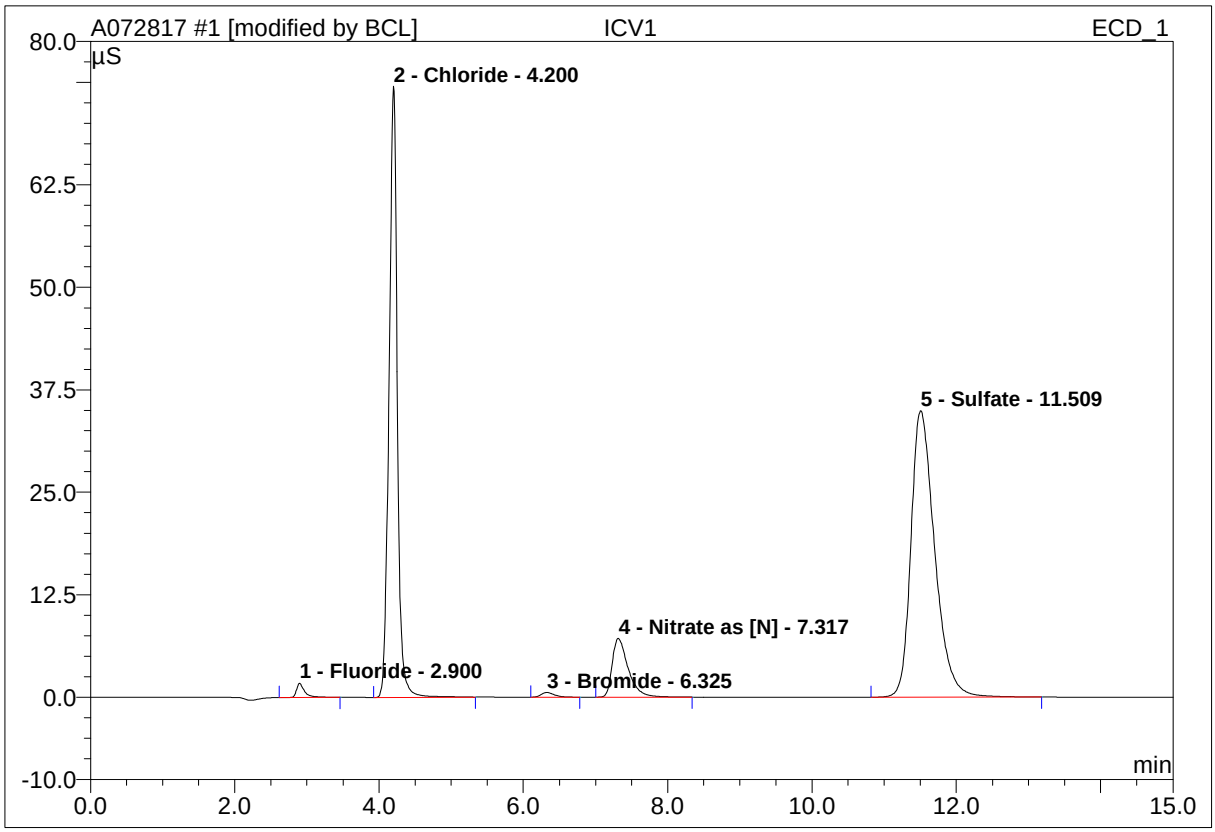
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.738	0.240	0.94	1.081	BM
2	3.72	n.a.	0.046	0.015	0.06	n.a.	MB
3	4.20	Chloride	74.533	9.899	38.95	48.998	BMB
4	6.33	Bromide	0.572	0.122	0.48	1.973	BMB
5	7.32	Nitrate as [N]	7.168	1.835	7.22	4.861	BMB
6	11.51	Sulfate	34.957	13.305	52.35	96.110	BMB
Total:			119.015	25.417	100.00	153.022	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 15:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



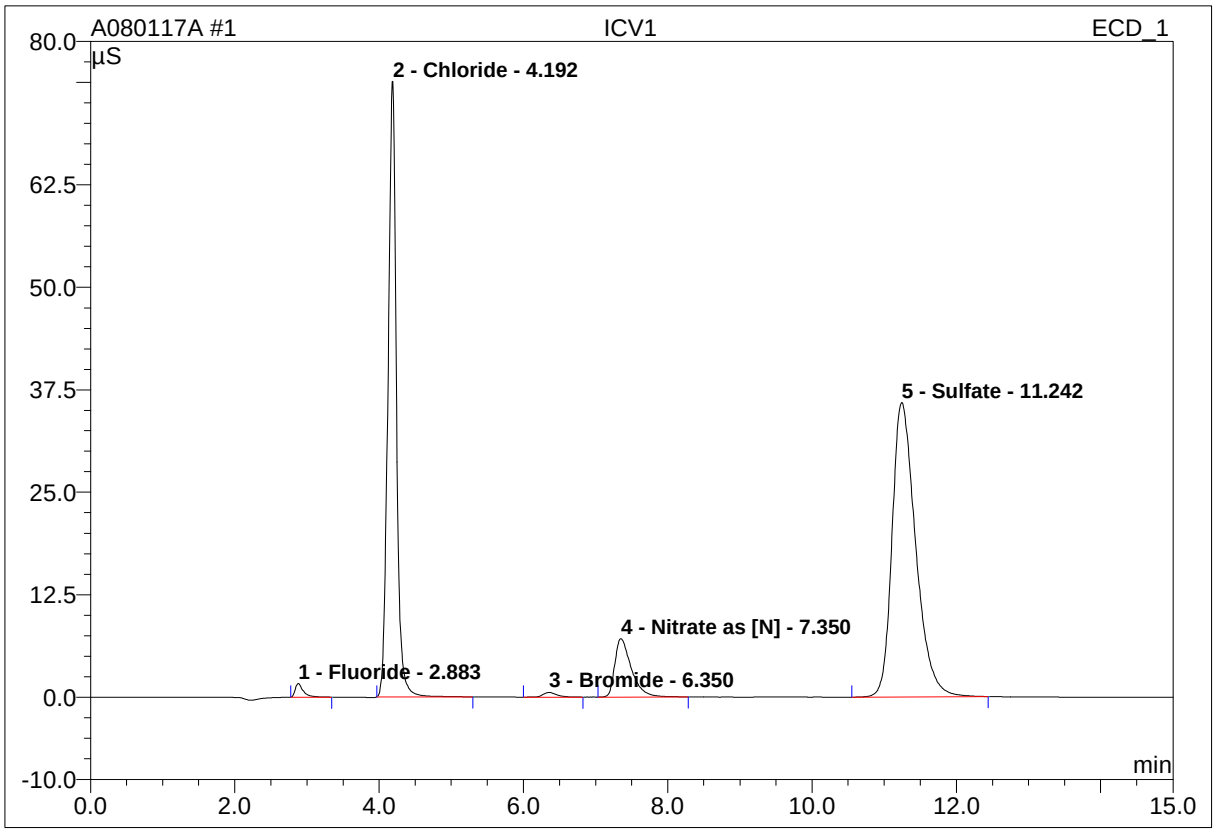
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.727	0.226	0.89	1.016	BMB*
2	4.20	Chloride	74.533	9.899	38.96	48.998	BMB
3	6.33	Bromide	0.572	0.122	0.48	1.973	BMB
4	7.32	Nitrate as [N]	7.170	1.842	7.25	4.876	BMB*
5	11.51	Sulfate	34.961	13.320	52.42	96.216	BMB*
Total:			118.963	25.408	100.00	153.078	

modified on: 07.28.17 17:25 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/1/2017 21:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.659	0.216	0.83	0.987	BMB
2	4.19	Chloride	75.074	10.107	38.94	50.596	BMB
3	6.35	Bromide	0.573	0.128	0.49	2.085	BMB
4	7.35	Nitrate as [N]	7.098	1.886	7.27	5.041	BMB
5	11.24	Sulfate	35.917	13.617	52.47	99.214	BMB
Total:			120.322	25.953	100.00	157.923	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
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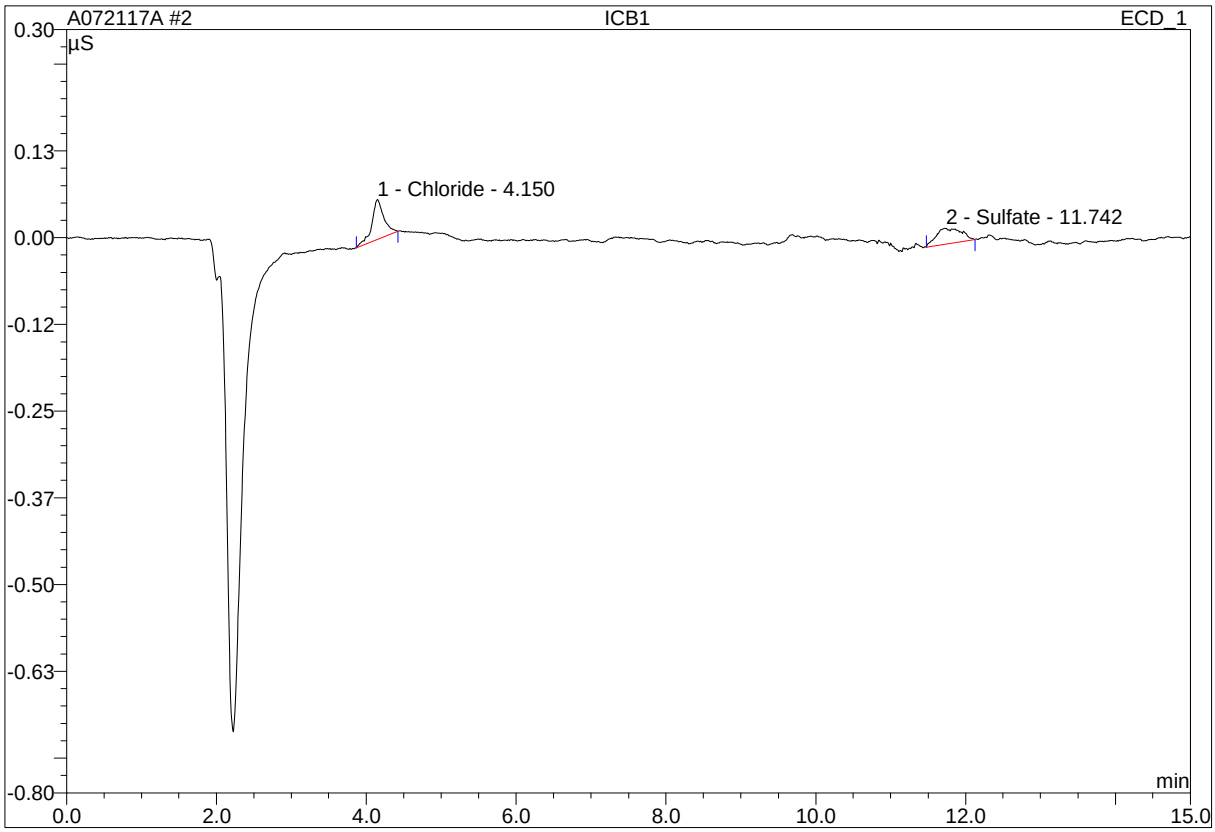
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - ICB

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.15	Chloride	0.057	0.011	55.29	0.183	BMB
2	11.74	Sulfate	0.022	0.009	44.71	0.243	BMB
Total:			0.080	0.019	100.00	0.426	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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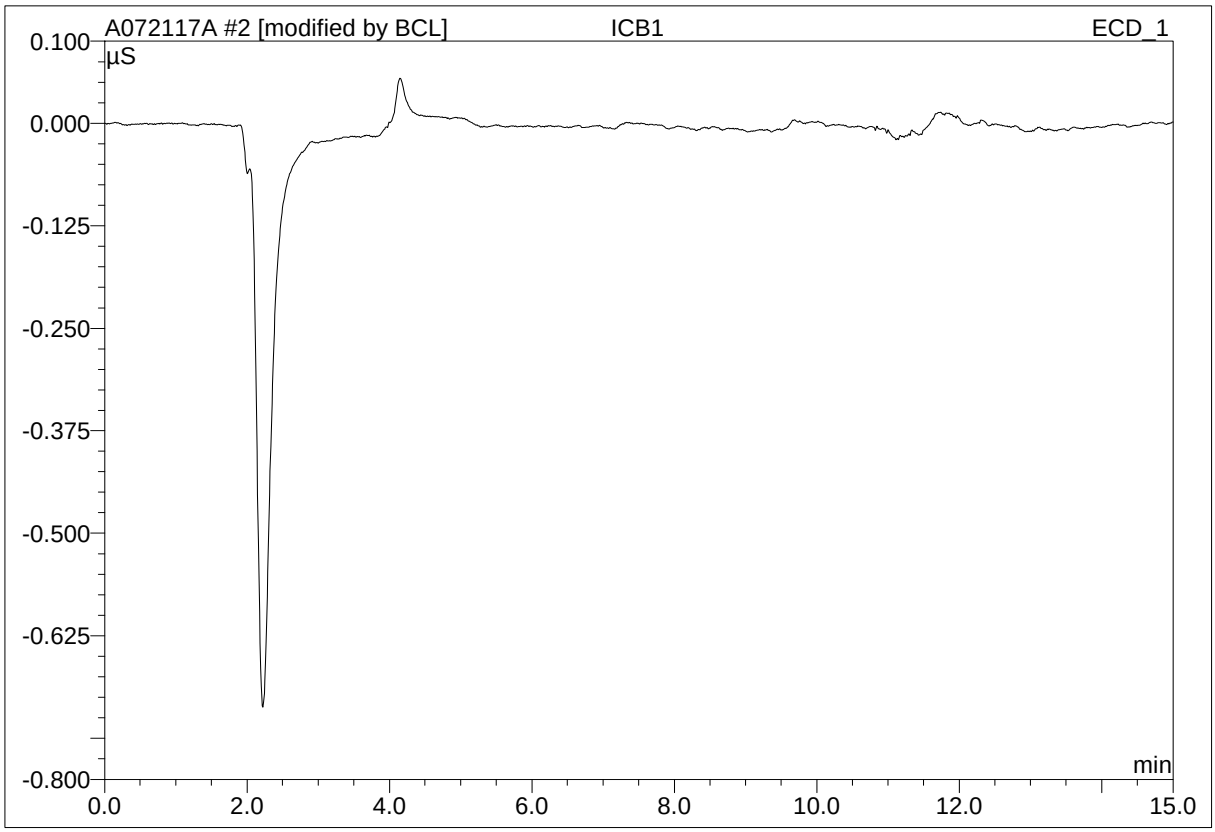
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



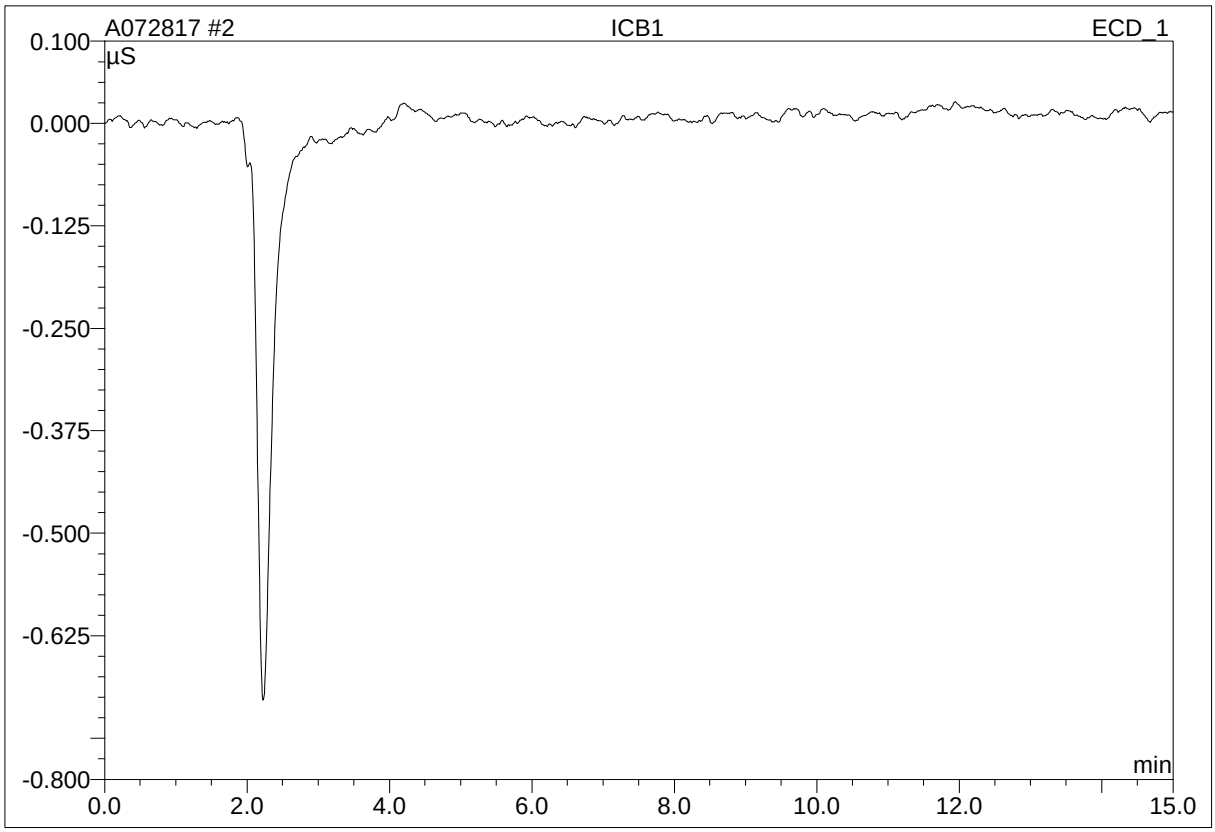
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.26.17 17:53 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 16:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



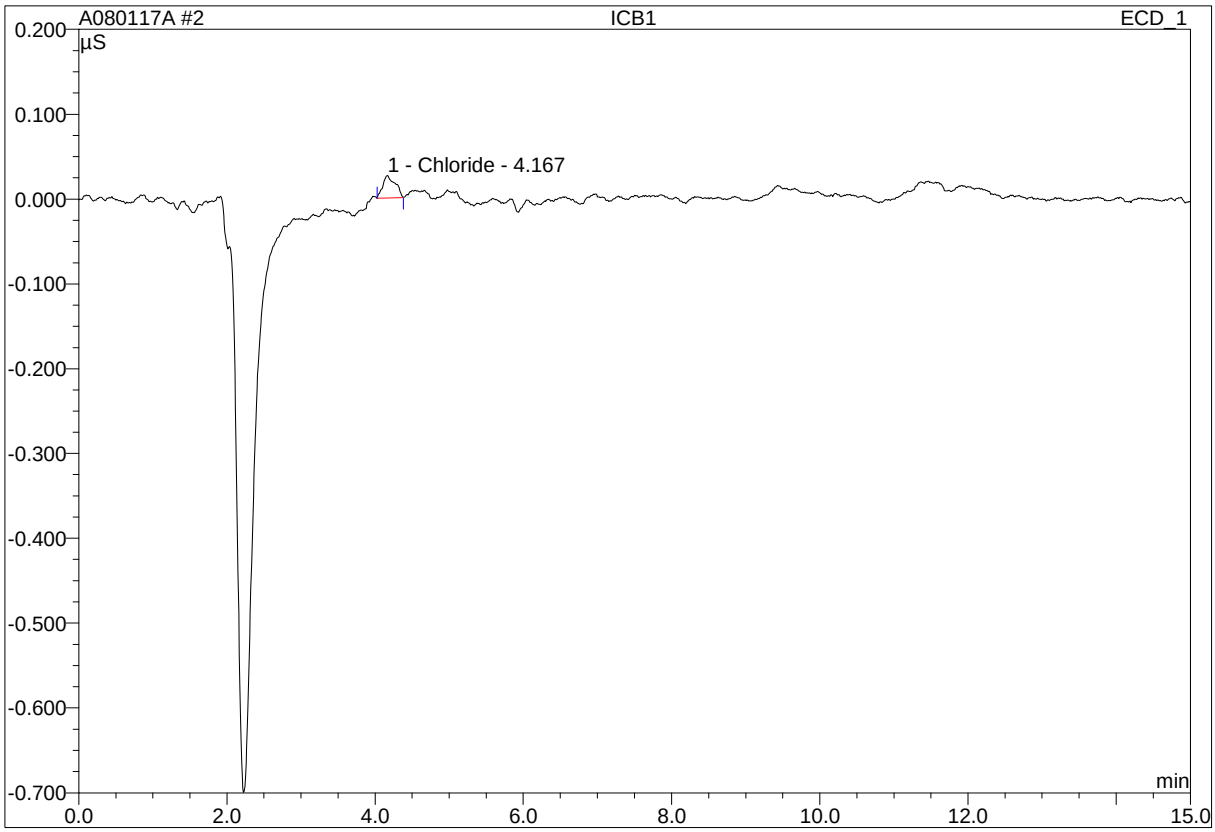
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/1/2017 21:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



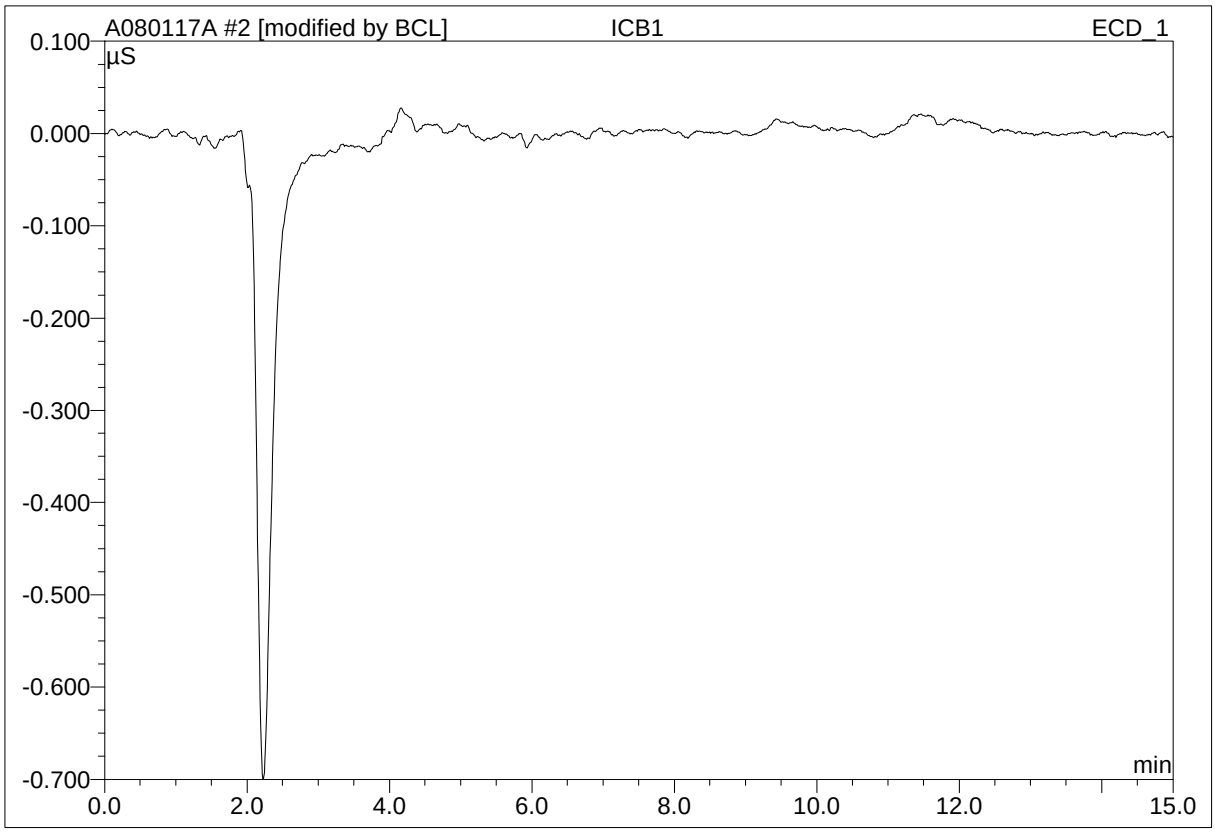
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.027	0.005	100.00	0.161	BMB
Total:			0.027	0.005	100.00	0.161	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/1/2017 21:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

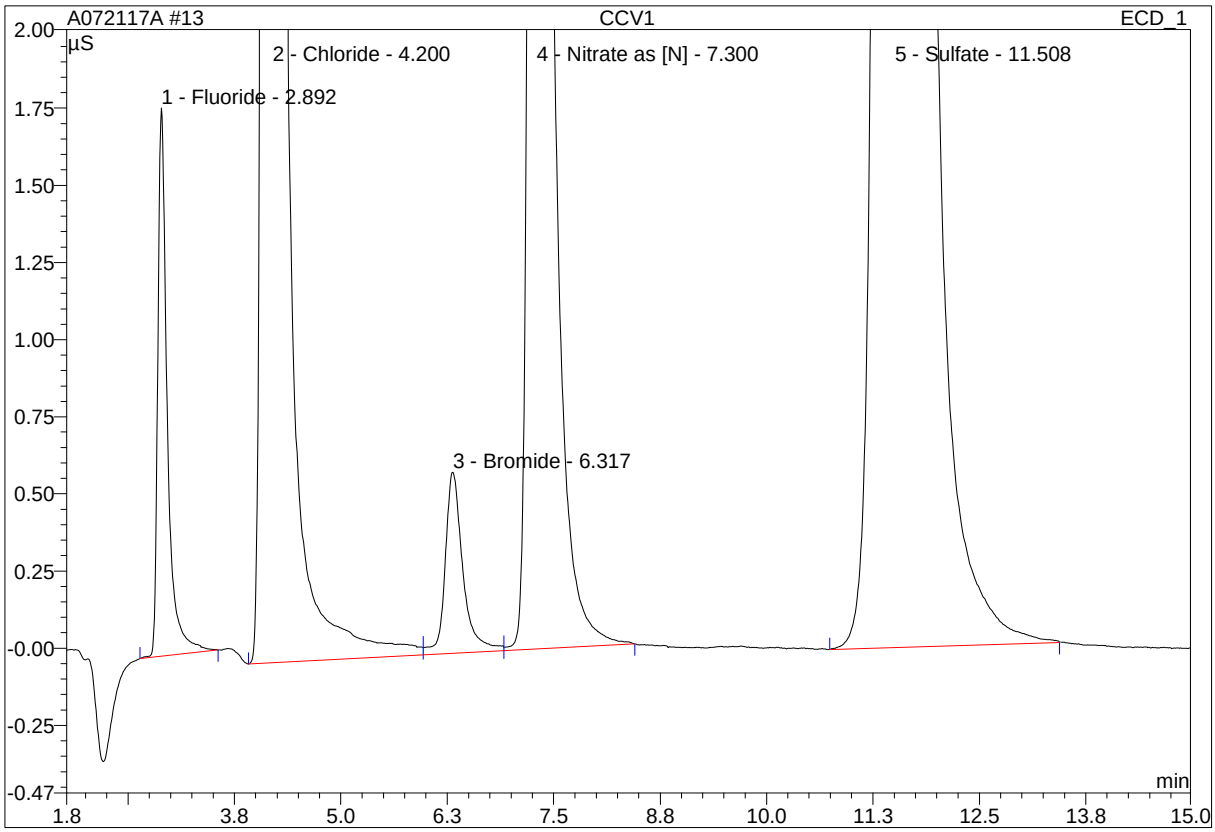
modified on: 08.01.17 22:47 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - CCV

13 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



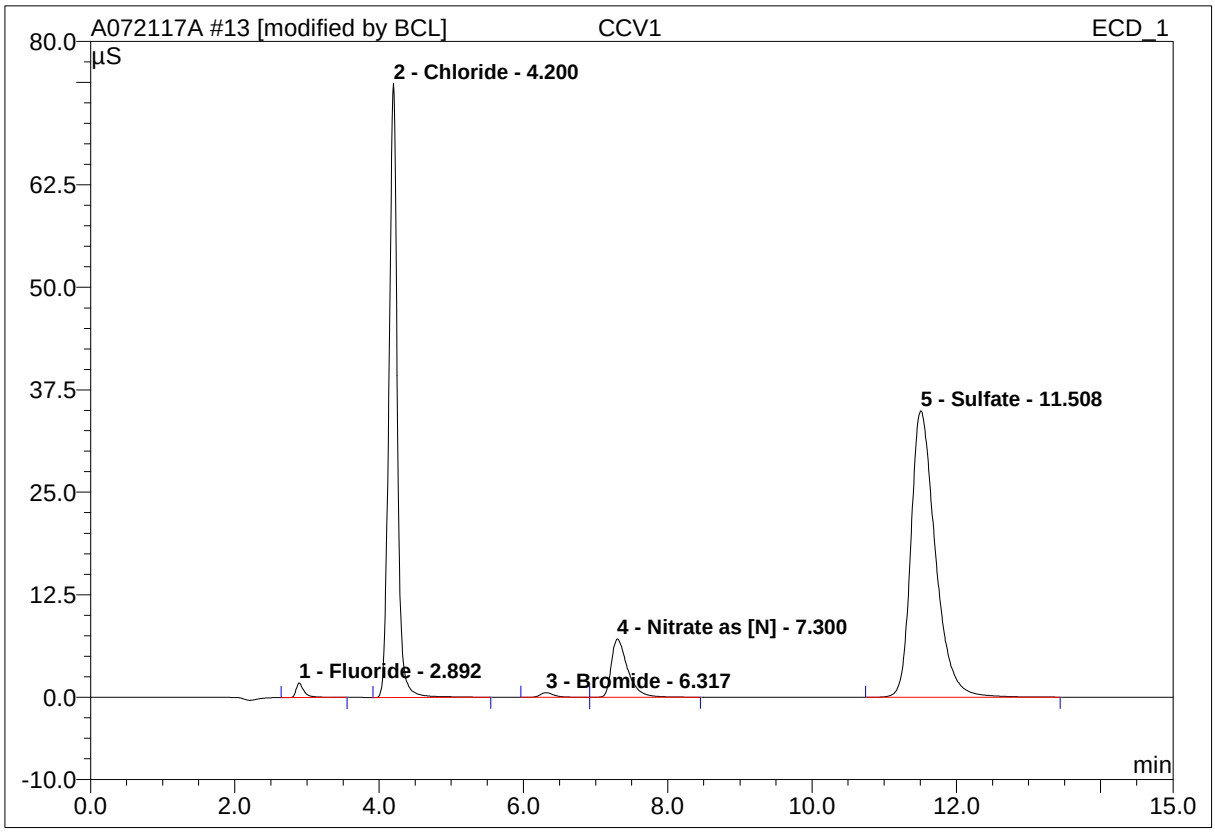
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.776	0.230	0.88	1.017	BMB
2	4.20	Chloride	74.868	10.092	38.75	50.395	BM
3	6.32	Bromide	0.587	0.142	0.54	2.320	M
4	7.30	Nitrate as [N]	7.111	1.876	7.20	4.964	MB
5	11.51	Sulfate	34.963	13.707	52.62	100.149	BMB
Total:			119.304	26.047	100.00	158.846	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

13 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



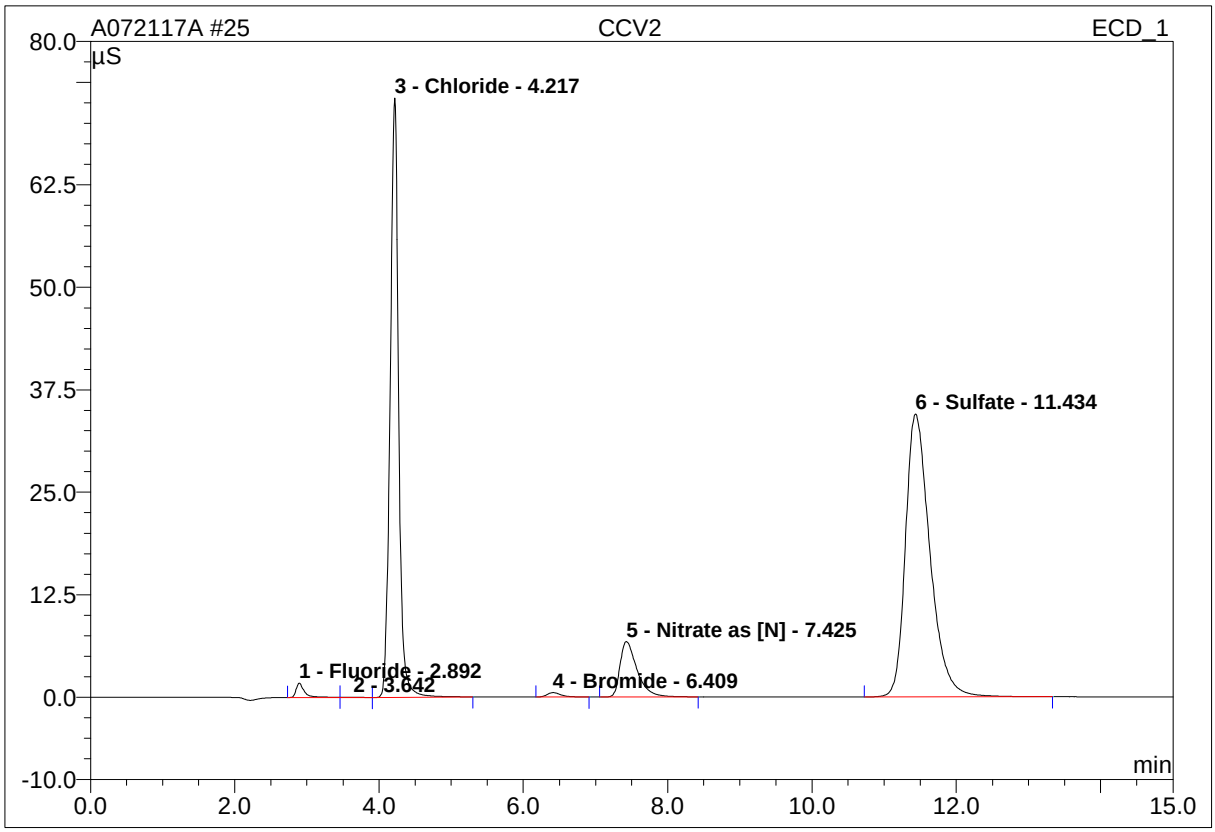
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.776	0.230	0.89	1.017	BMB
2	4.20	Chloride	74.860	10.042	38.67	50.160	BMB*
3	6.32	Bromide	0.567	0.124	0.48	2.031	BM *
4	7.30	Nitrate as [N]	7.100	1.865	7.18	4.937	MB*
5	11.51	Sulfate	34.963	13.707	52.78	100.149	BMB
Total:			119.266	25.968	100.00	158.294	

modified on: 07.23.17 18:18 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

25 CCV2

Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 8:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



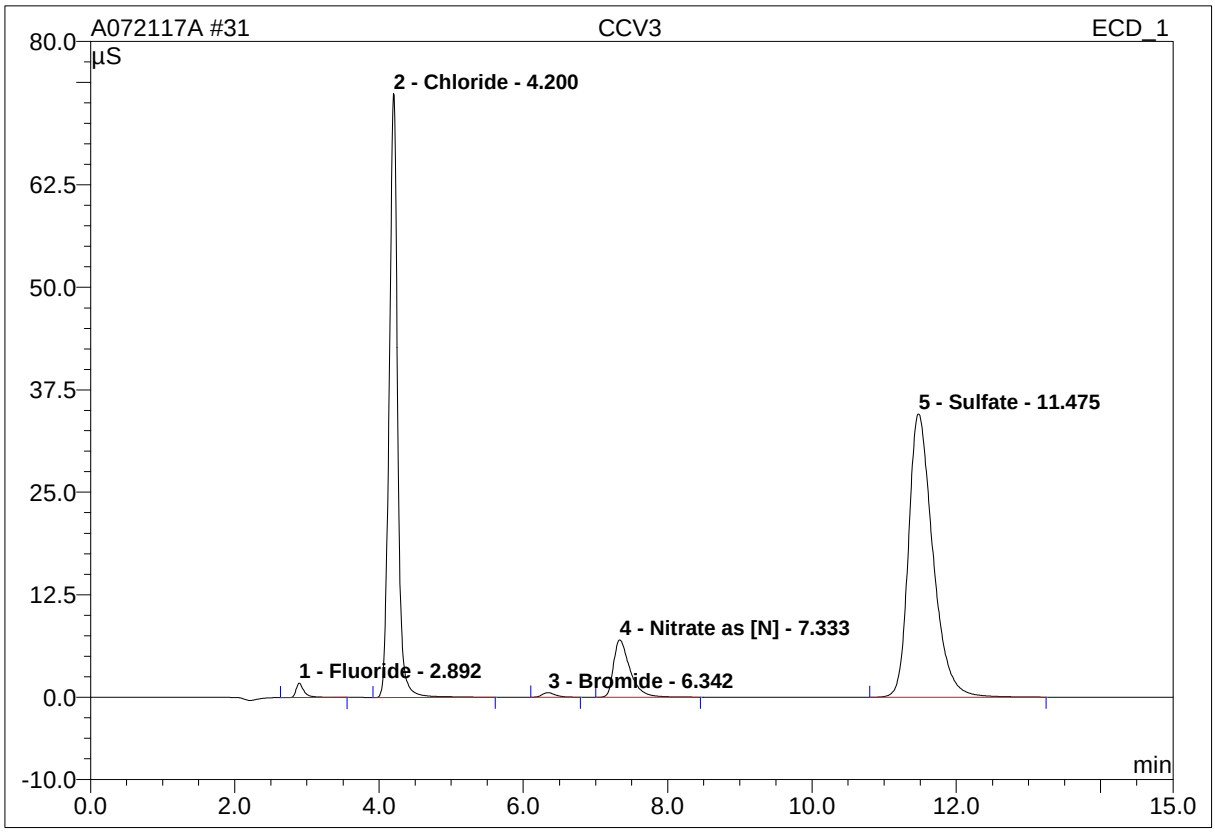
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.759	0.239	0.93	1.055	BM
2	3.64	n.a.	0.046	0.013	0.05	n.a.	MB
3	4.22	Chloride	73.111	9.936	38.61	49.660	bMB
4	6.41	Bromide	0.537	0.119	0.46	1.948	BMB
5	7.43	Nitrate as [N]	6.765	1.847	7.17	4.891	BMB
6	11.43	Sulfate	34.526	13.585	52.78	99.310	BMB
Total:			116.744	25.738	100.00	156.864	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

31 CCV3

Sample Name:	**CCV3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 9:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



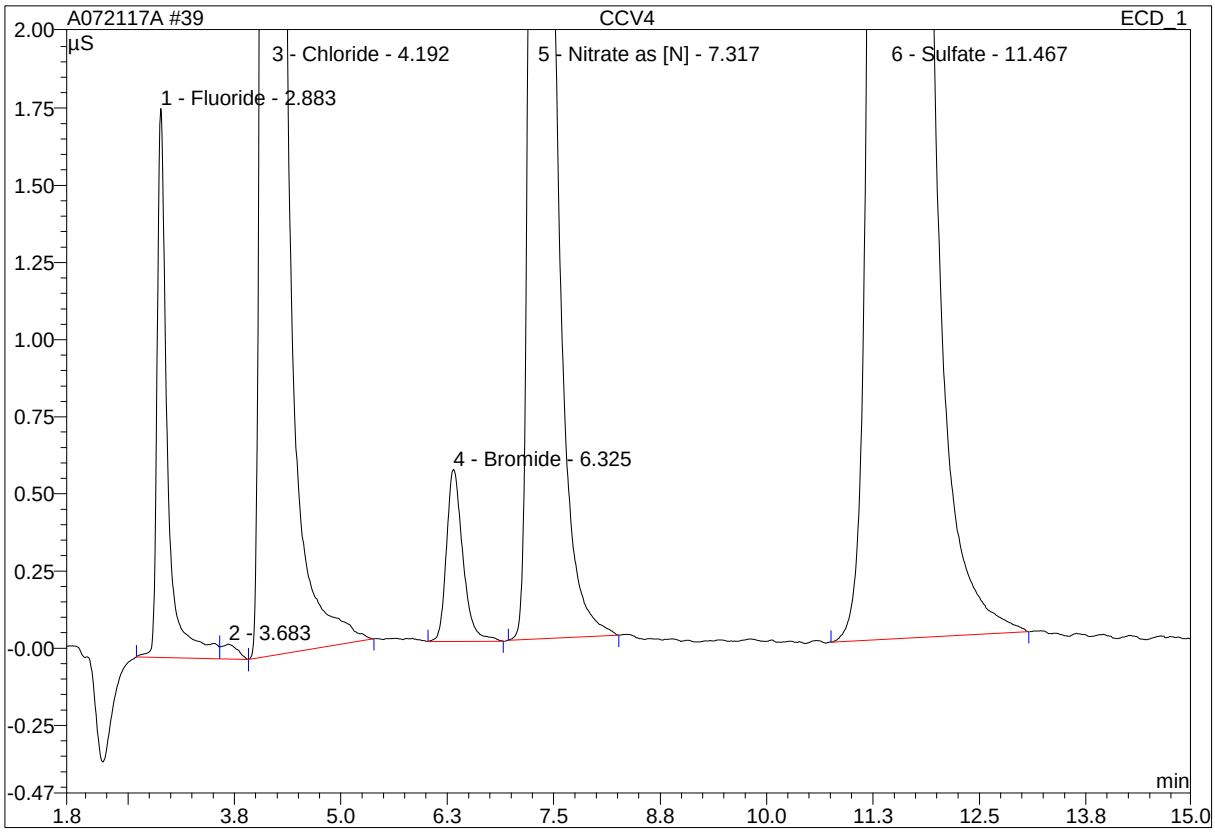
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.758	0.229	0.89	1.011	BMB
2	4.20	Chloride	73.670	9.936	38.76	49.657	BMB
3	6.34	Bromide	0.553	0.119	0.47	1.960	BMB
4	7.33	Nitrate as [N]	6.982	1.850	7.22	4.898	BMB
5	11.48	Sulfate	34.580	13.498	52.66	98.720	BMB
Total:			117.543	25.632	100.00	156.246	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

39 CCV4

Sample Name:	**CCV4**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



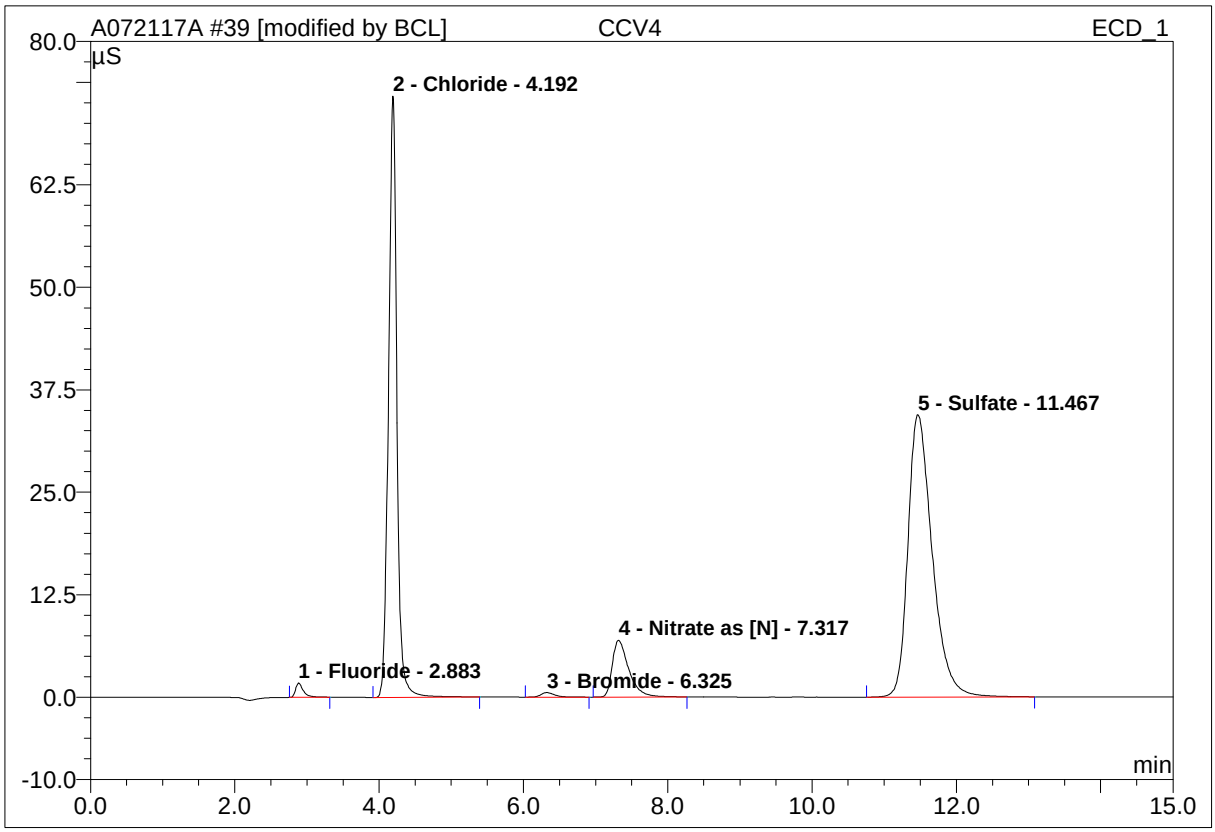
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.778	0.252	0.99	1.111	BM
2	3.68	n.a.	0.048	0.011	0.04	n.a.	MB
3	4.19	Chloride	73.345	9.868	38.67	49.335	bMB
4	6.33	Bromide	0.557	0.124	0.49	2.033	BMB
5	7.32	Nitrate as [N]	6.921	1.834	7.19	4.859	BMB
6	11.47	Sulfate	34.462	13.433	52.64	98.270	BMB
Total:			117.111	25.521	100.00	155.608	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

39 CCV4

Sample Name:	**CCV4**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



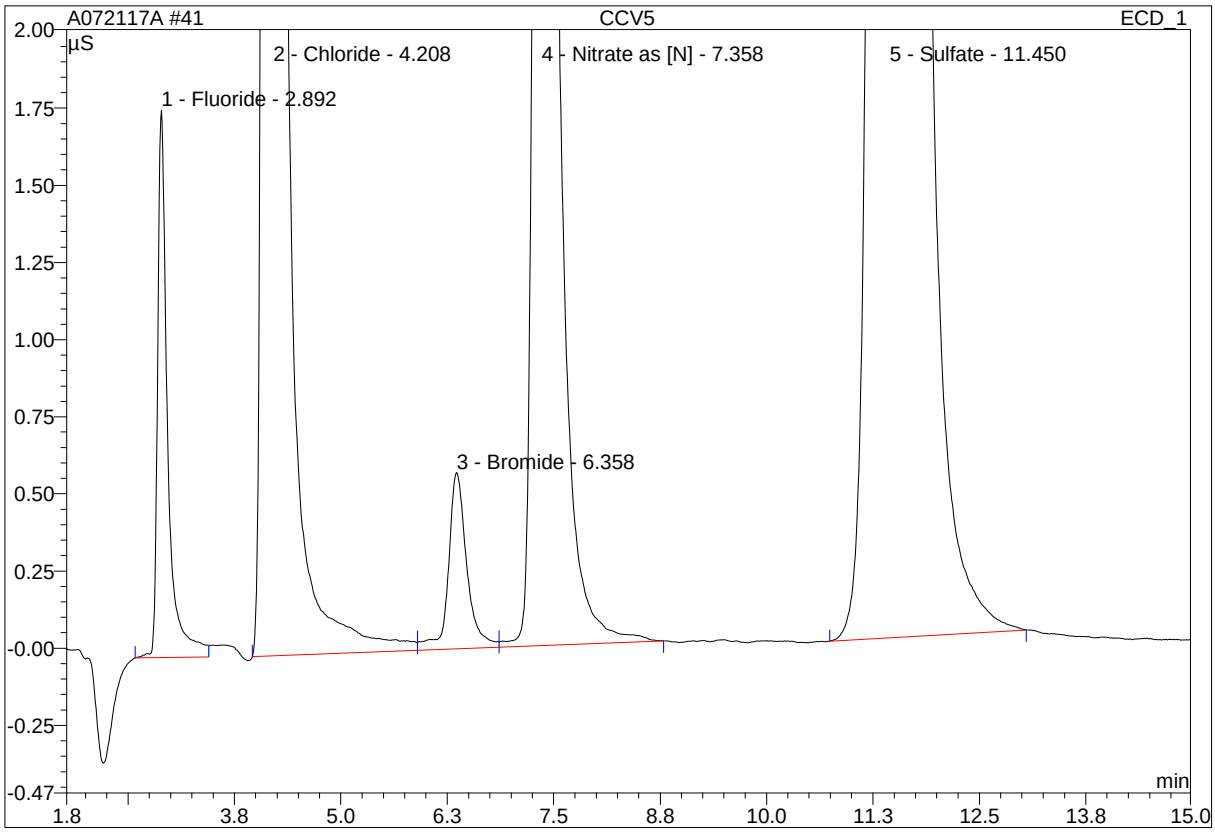
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.751	0.217	0.85	0.961	BMB*
2	4.19	Chloride	73.345	9.868	38.73	49.335	BMB*
3	6.33	Bromide	0.557	0.124	0.49	2.033	BMB
4	7.32	Nitrate as [N]	6.921	1.834	7.20	4.859	BMB
5	11.47	Sulfate	34.462	13.433	52.73	98.270	BMB
Total:			117.035	25.475	100.00	155.458	

modified on: 07.23.17 18:34 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

41 CCV5

Sample Name:	**CCV5**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



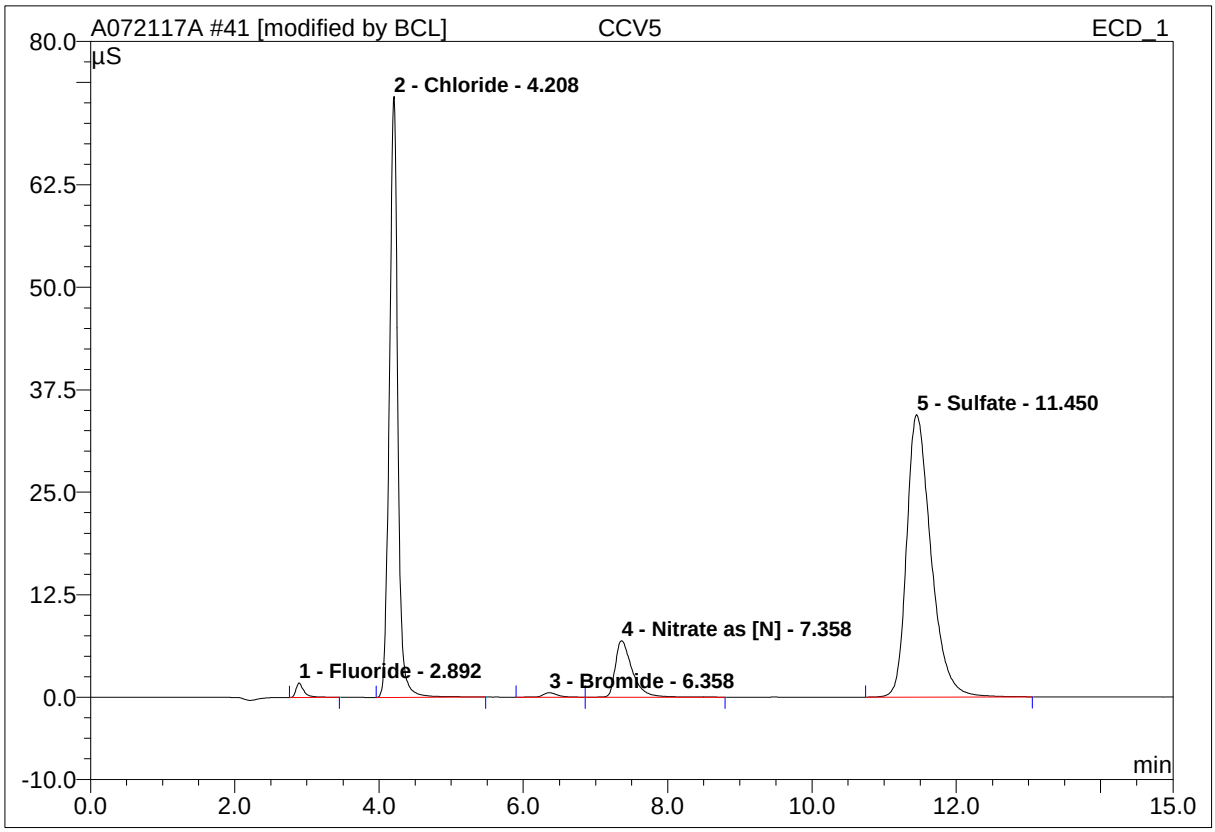
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.773	0.244	0.95	1.076	BM
2	4.21	Chloride	73.283	9.953	38.78	49.739	BM
3	6.36	Bromide	0.571	0.143	0.56	2.335	M
4	7.36	Nitrate as [N]	6.888	1.872	7.30	4.955	MB
5	11.45	Sulfate	34.458	13.451	52.41	98.392	BMB
Total:			116.973	25.663	100.00	156.497	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

41 CCV5

Sample Name:	**CCV5**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



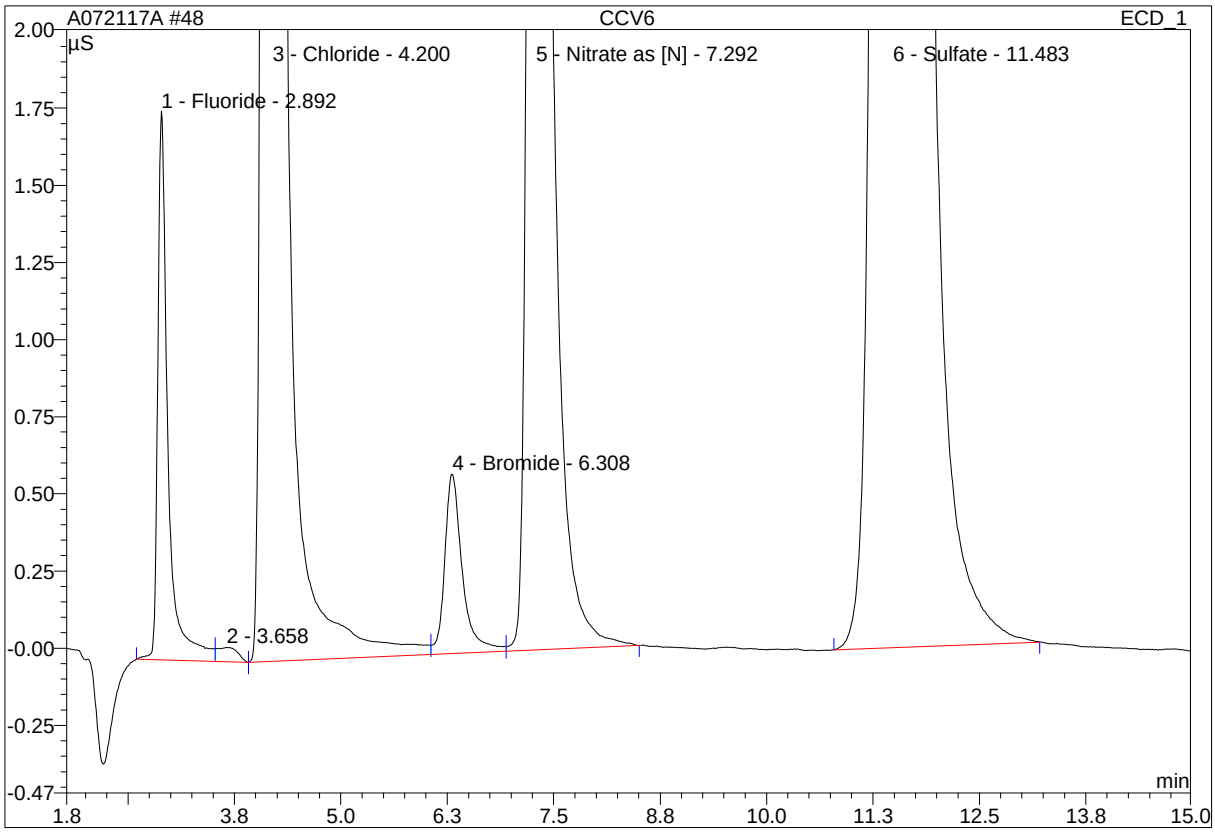
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.756	0.225	0.88	0.997	BMB*
2	4.21	Chloride	73.276	9.908	38.76	49.526	BMB*
3	6.36	Bromide	0.549	0.122	0.48	2.009	BM *
4	7.36	Nitrate as [N]	6.875	1.856	7.26	4.914	MB*
5	11.45	Sulfate	34.458	13.451	52.62	98.392	BMB
Total:			116.915	25.562	100.00	155.837	

modified on: 07.23.17 18:34 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

48 CCV6

Sample Name:	**CCV6**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 14:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



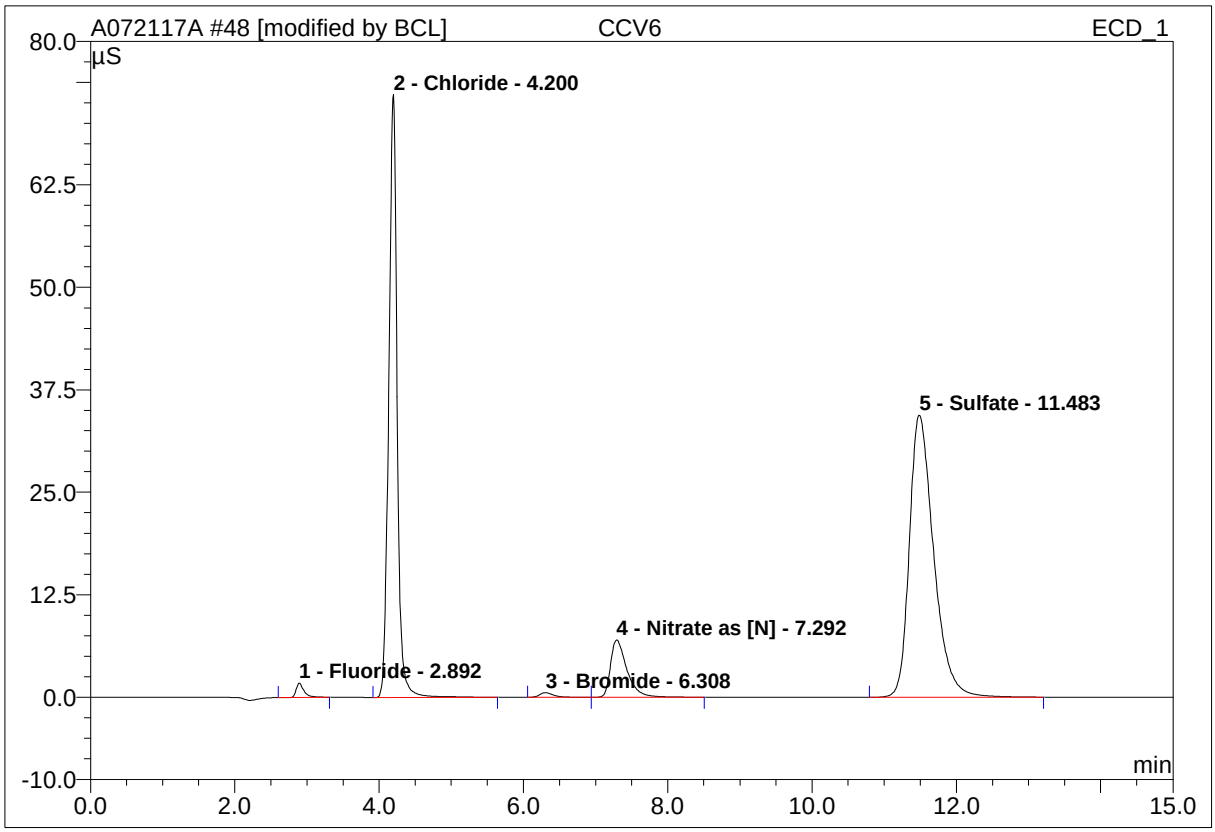
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.776	0.247	0.96	1.091	BM
2	3.66	n.a.	0.046	0.013	0.05	n.a.	MB
3	4.20	Chloride	73.563	9.946	38.81	49.707	bM
4	6.31	Bromide	0.581	0.140	0.55	2.291	M
5	7.29	Nitrate as [N]	7.007	1.851	7.22	4.901	MB
6	11.48	Sulfate	34.414	13.430	52.41	98.252	BMB
Total:			117.388	25.627	100.00	156.242	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

48 CCV6

Sample Name:	**CCV6**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 14:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



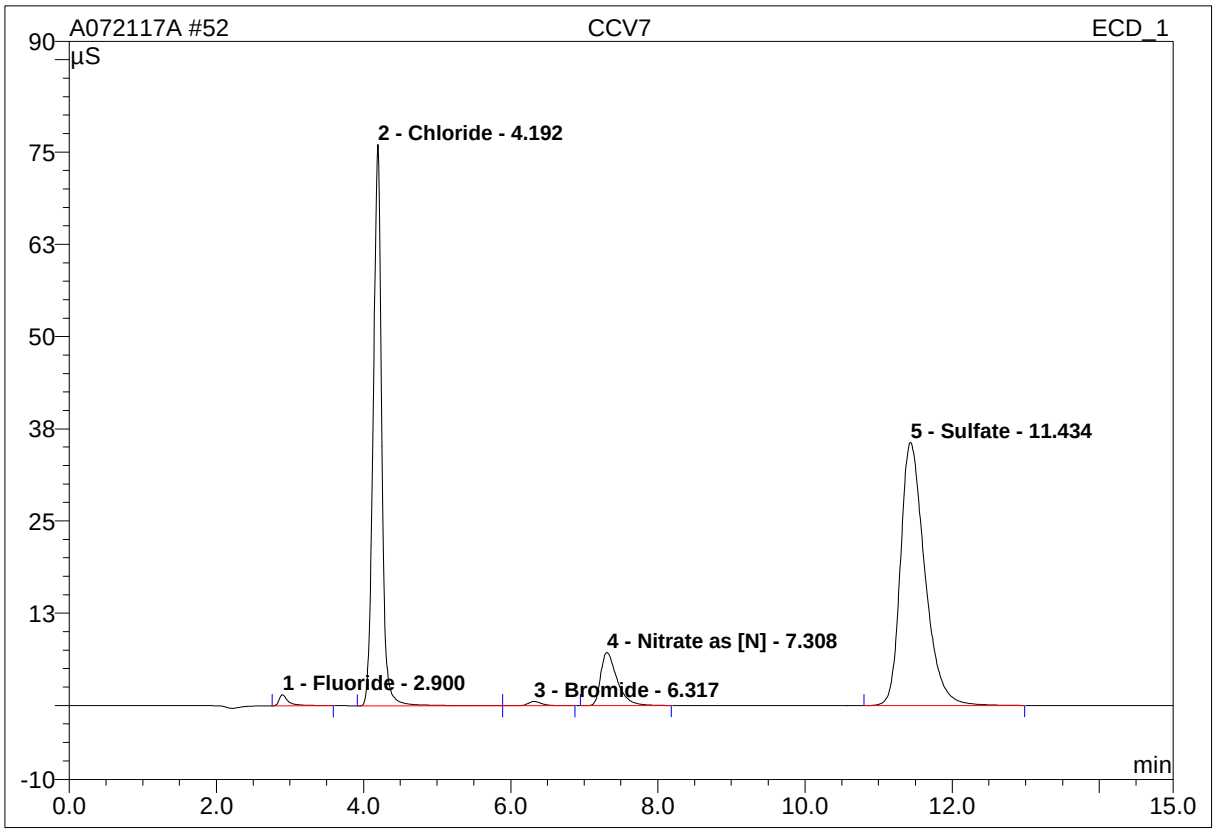
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.754	0.218	0.85	0.965	BMB*
2	4.20	Chloride	73.557	9.898	38.82	49.479	BMB*
3	6.31	Bromide	0.555	0.119	0.47	1.950	BM *
4	7.29	Nitrate as [N]	6.992	1.836	7.20	4.864	MB*
5	11.48	Sulfate	34.414	13.430	52.67	98.252	BMB
Total:			117.272	25.501	100.00	155.510	

modified on: 07.23.17 18:35 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

52 CCV7

Sample Name:	**CCV7**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



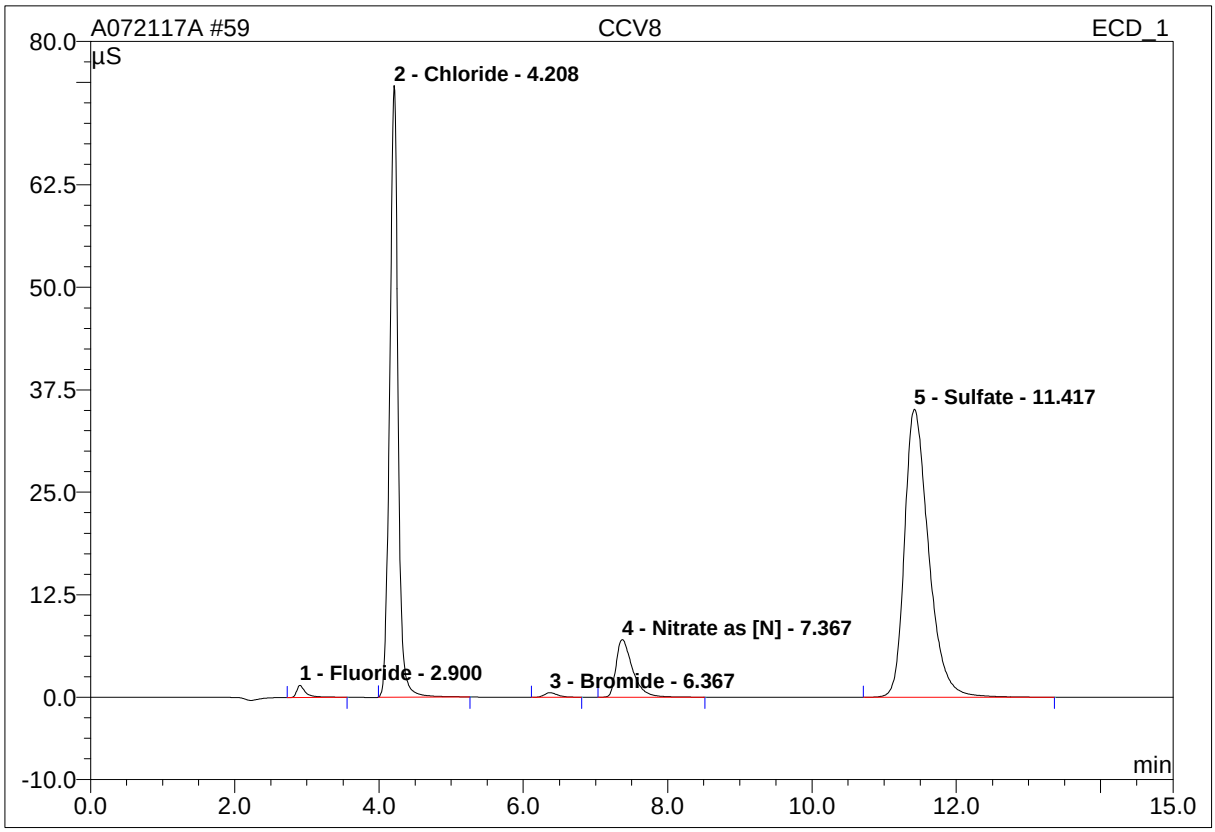
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.483	0.221	0.85	0.981	BMB
2	4.19	Chloride	76.085	10.191	39.07	50.860	BM
3	6.32	Bromide	0.582	0.130	0.50	2.133	MB
4	7.31	Nitrate as [N]	7.196	1.865	7.15	4.938	BMB
5	11.43	Sulfate	35.640	13.674	52.43	99.922	BMB
Total:			120.985	26.081	100.00	158.833	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

59 CCV8

Sample Name:	**CCV8**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 21:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



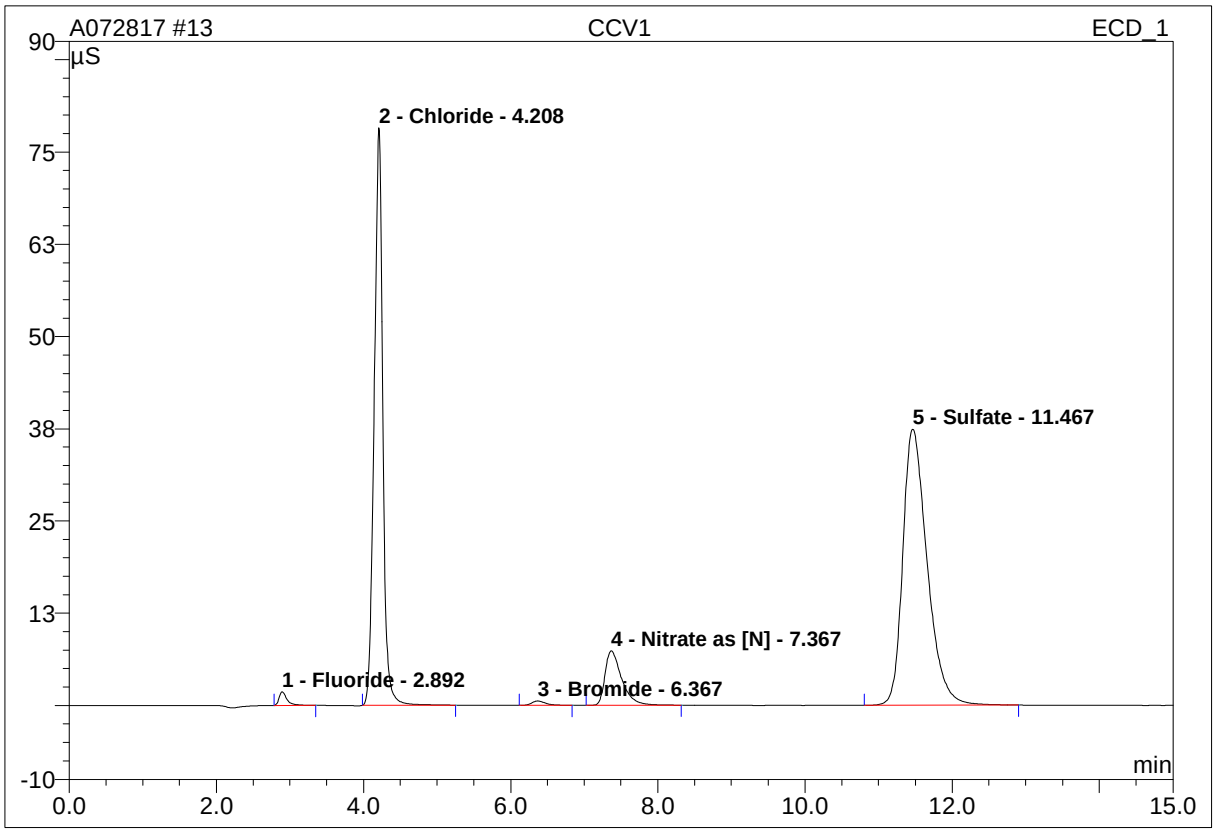
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.491	0.220	0.86	0.976	BMB
2	4.21	Chloride	74.571	9.966	38.69	49.798	BMB
3	6.37	Bromide	0.559	0.120	0.47	1.971	BMB
4	7.37	Nitrate as [N]	7.039	1.865	7.24	4.937	BMB
5	11.42	Sulfate	35.163	13.589	52.75	99.338	BMB
Total:			118.823	25.760	100.00	157.019	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

13 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 19:21**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



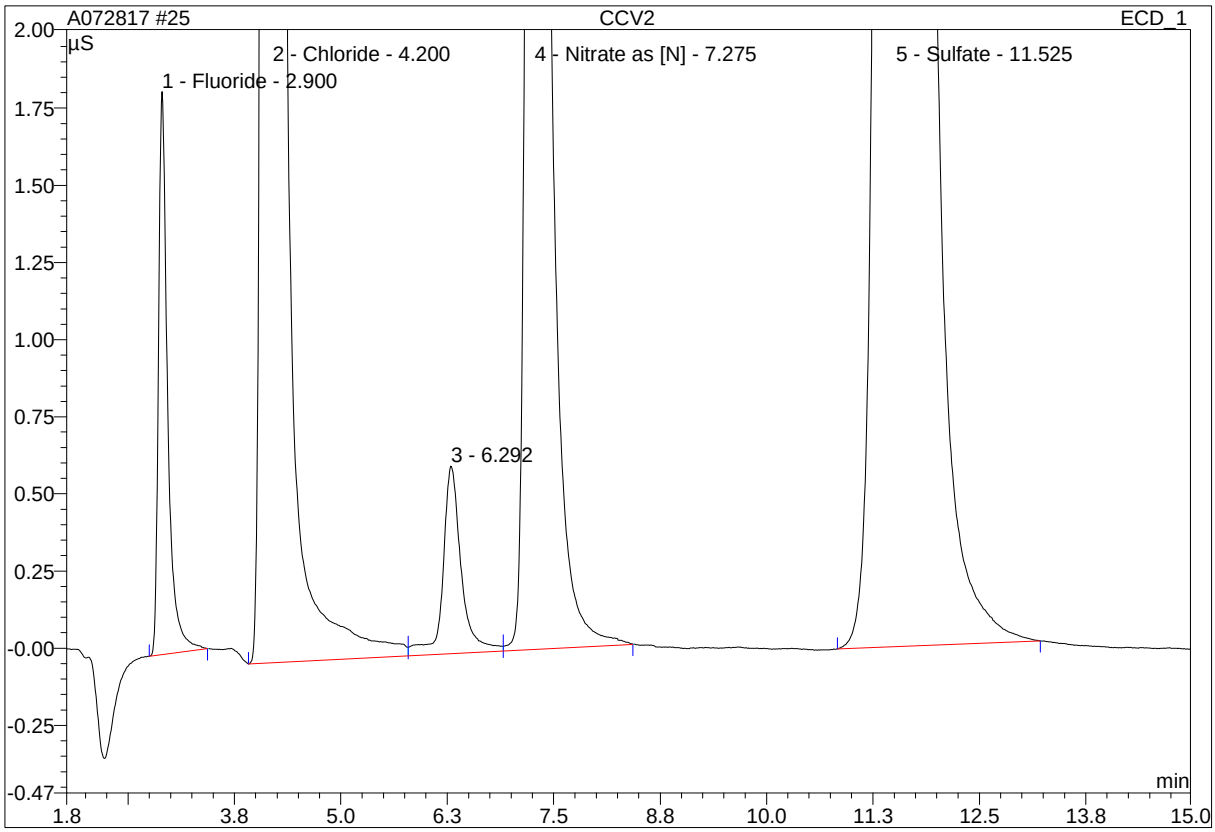
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.866	0.232	0.85	1.045	BMB
2	4.21	Chloride	78.275	10.560	38.82	52.087	BMB
3	6.37	Bromide	0.596	0.128	0.47	2.062	BMB
4	7.37	Nitrate as [N]	7.390	1.937	7.12	5.114	BMB
5	11.47	Sulfate	37.417	14.345	52.73	103.134	BMB
Total:			125.544	27.202	100.00	163.441	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

25 CCV2

Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 22:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



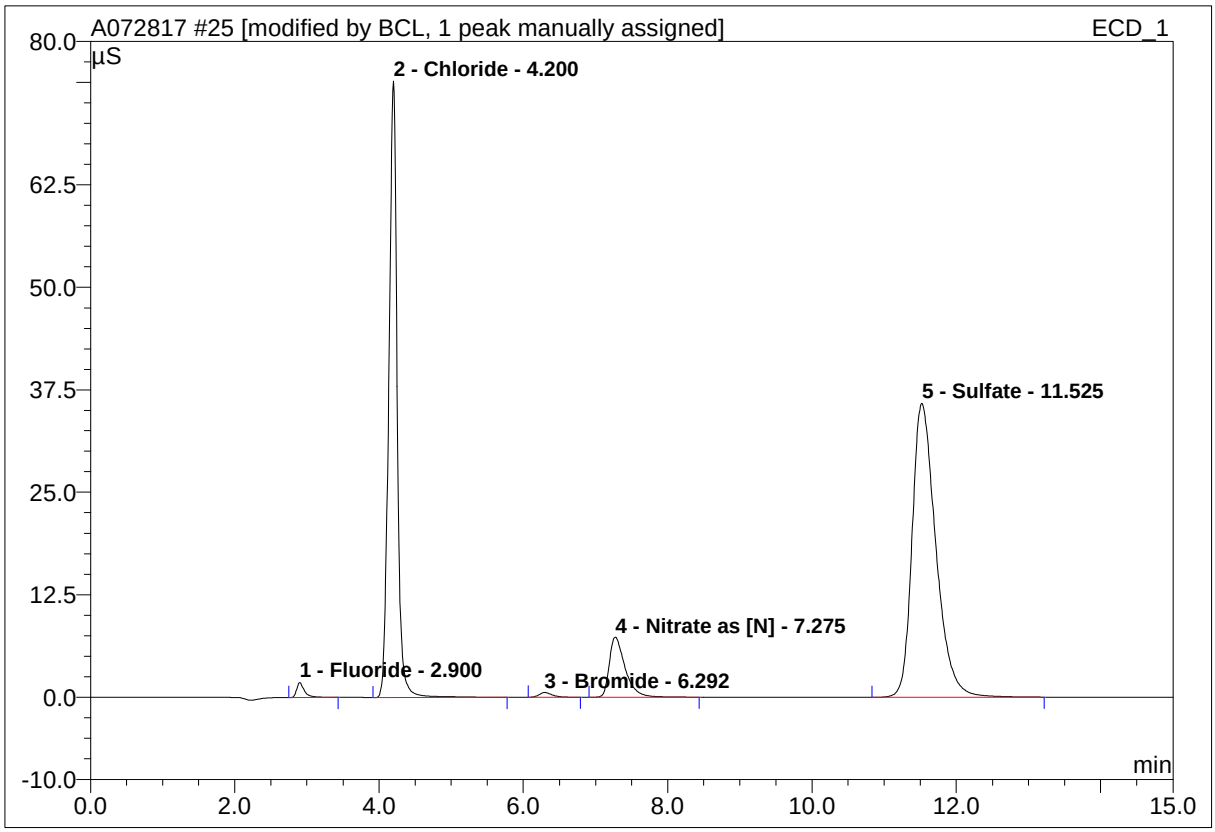
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.824	0.228	0.87	1.026	BMB
2	4.20	Chloride	75.191	10.125	38.84	50.058	BM
3	6.29	n.a.	0.607	0.151	0.58	n.a.	M
4	7.28	Nitrate as [N]	7.336	1.883	7.22	4.979	MB
5	11.53	Sulfate	35.870	13.684	52.49	98.679	BMB
Total:			120.828	26.072	100.00	154.742	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

25 CCV2

Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 22:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



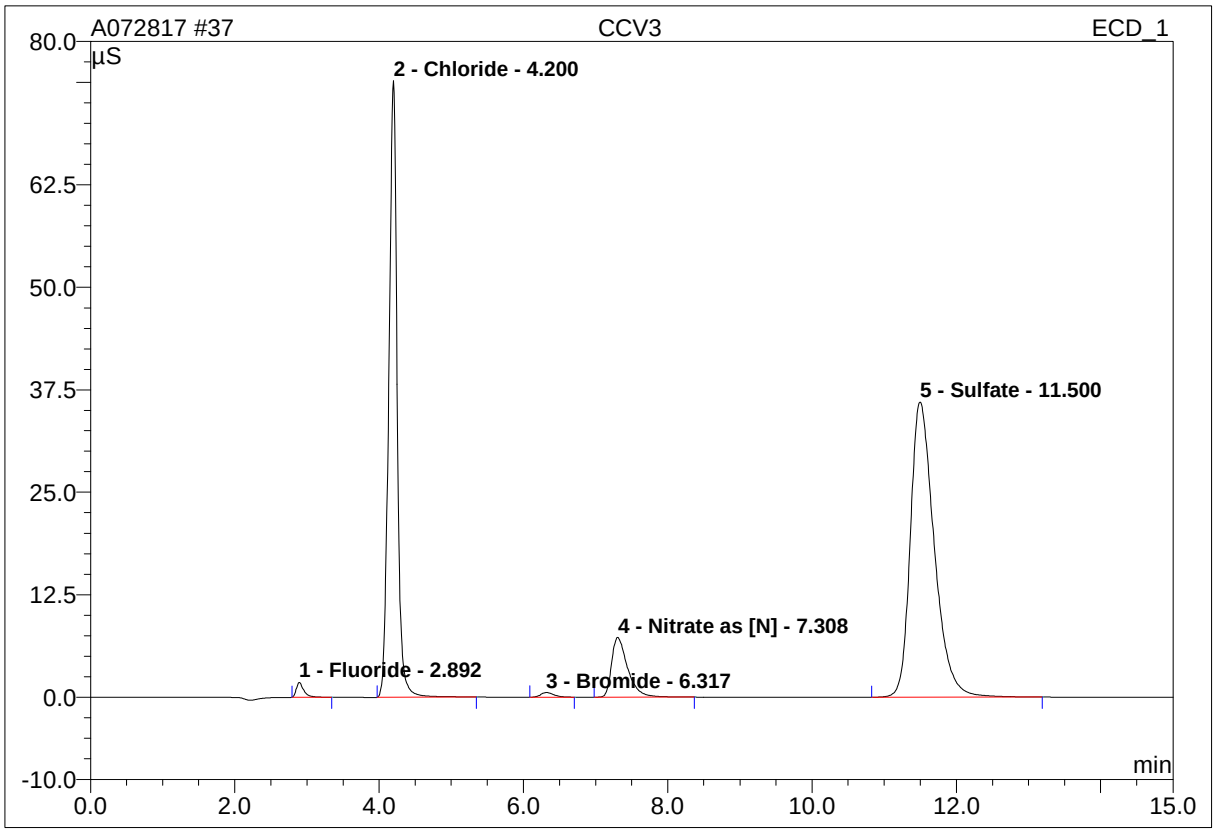
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.824	0.228	0.88	1.026	BMB
2	4.20	Chloride	75.187	10.098	38.84	49.932	BMB*
3	6.29	Bromide	0.577	0.121	0.46	1.951	BMB*^
4	7.28	Nitrate as [N]	7.325	1.871	7.20	4.950	BMB*
5	11.53	Sulfate	35.870	13.684	52.63	98.679	BMB
Total:			120.782	26.002	100.00	156.538	

modified on: 07.29.17 10:13 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

37 CCV3

Sample Name:	**CCV3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/29/2017 2:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



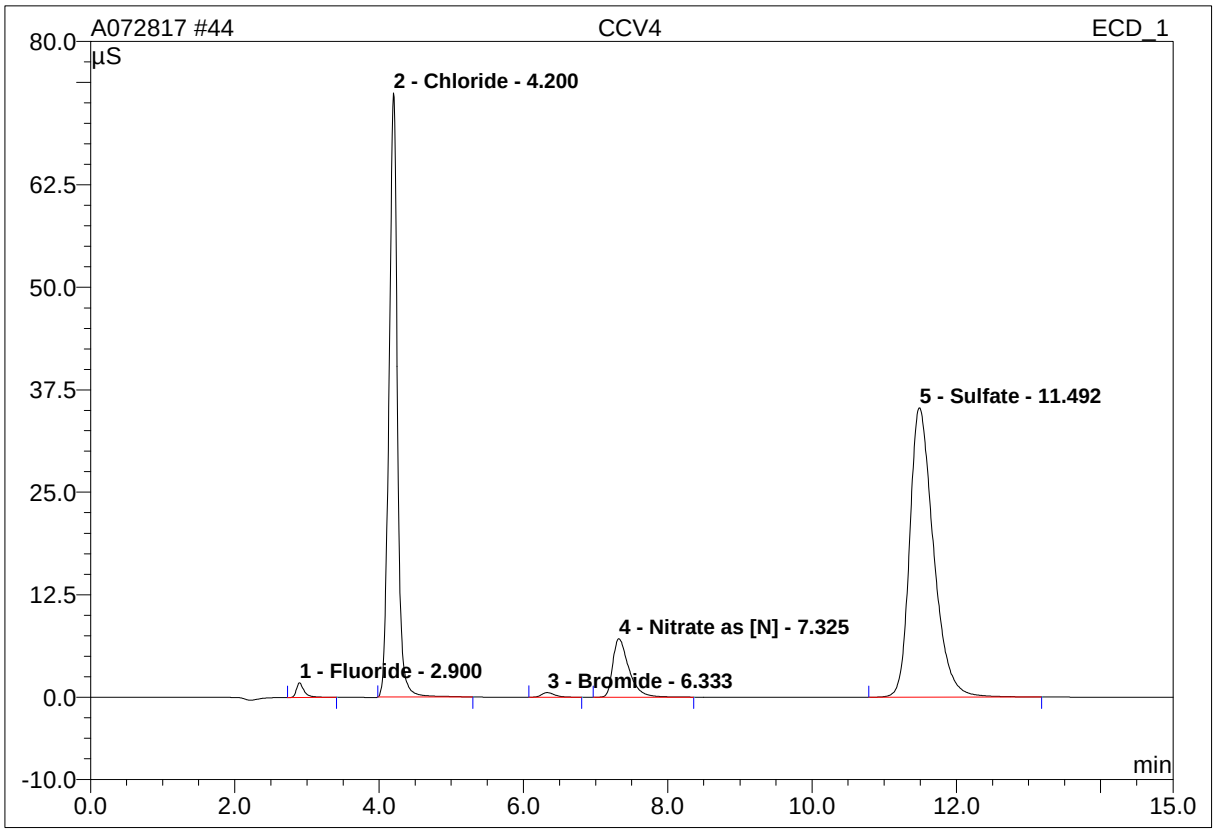
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.813	0.218	0.84	0.984	BMB
2	4.20	Chloride	75.159	10.069	38.59	49.795	BMB
3	6.32	Bromide	0.571	0.120	0.46	1.934	BMB
4	7.31	Nitrate as [N]	7.277	1.874	7.18	4.958	BMB
5	11.50	Sulfate	36.020	13.814	52.94	99.560	BMB
Total:			120.840	26.095	100.00	157.230	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

44 CCV4

Sample Name:	**CCV4**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/29/2017 4:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



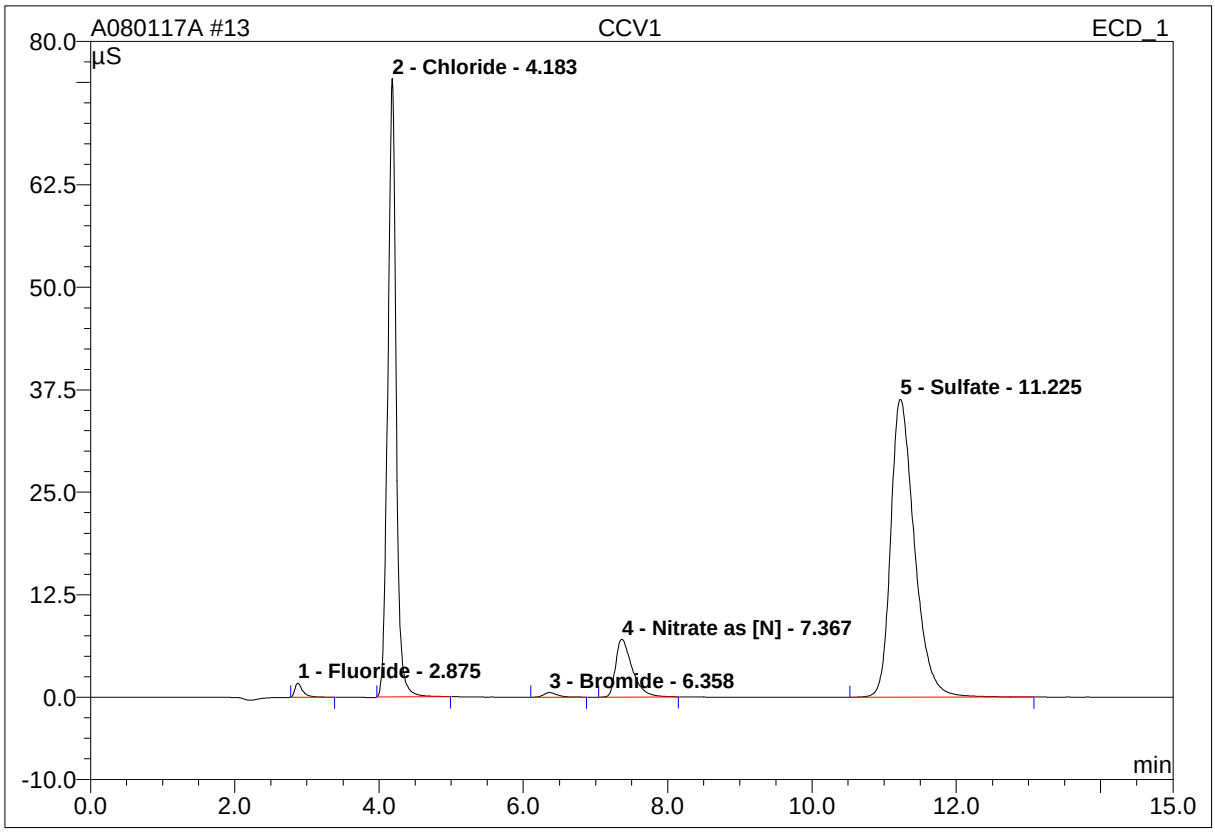
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	1.793	0.224	0.87	1.009	BMB
2	4.20	Chloride	73.676	9.905	38.69	49.029	BMB
3	6.33	Bromide	0.565	0.121	0.47	1.949	BMB
4	7.33	Nitrate as [N]	7.139	1.847	7.21	4.889	BMB
5	11.49	Sulfate	35.300	13.505	52.75	97.471	BMB
Total:			118.474	25.602	100.00	154.347	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

13 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 0:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



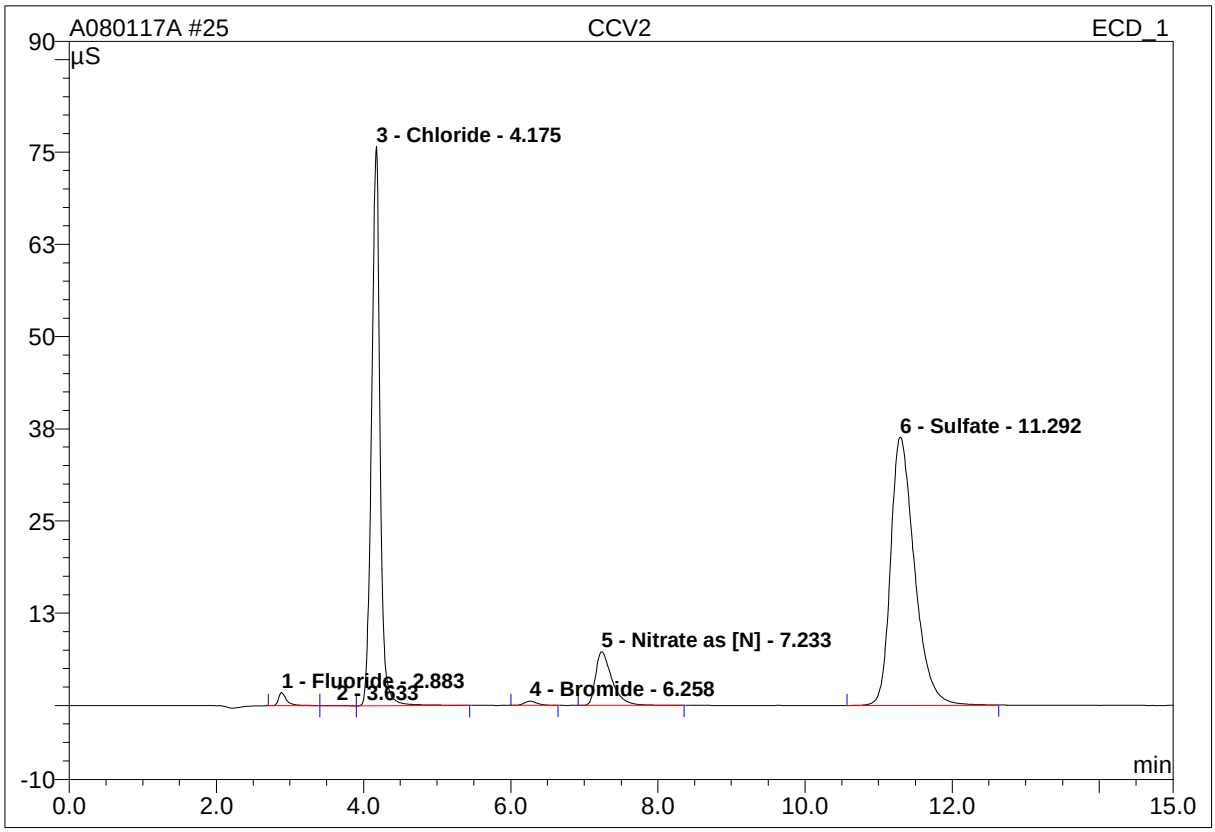
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.713	0.218	0.83	0.996	BMB
2	4.18	Chloride	75.400	10.078	38.55	50.459	BMB
3	6.36	Bromide	0.562	0.124	0.48	2.029	BMB
4	7.37	Nitrate as [N]	7.048	1.873	7.16	5.009	BMB
5	11.23	Sulfate	36.361	13.853	52.98	100.823	BMB
Total:			121.083	26.145	100.00	159.316	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

25 CCV2

Sample Name:	**CCV2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 4:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



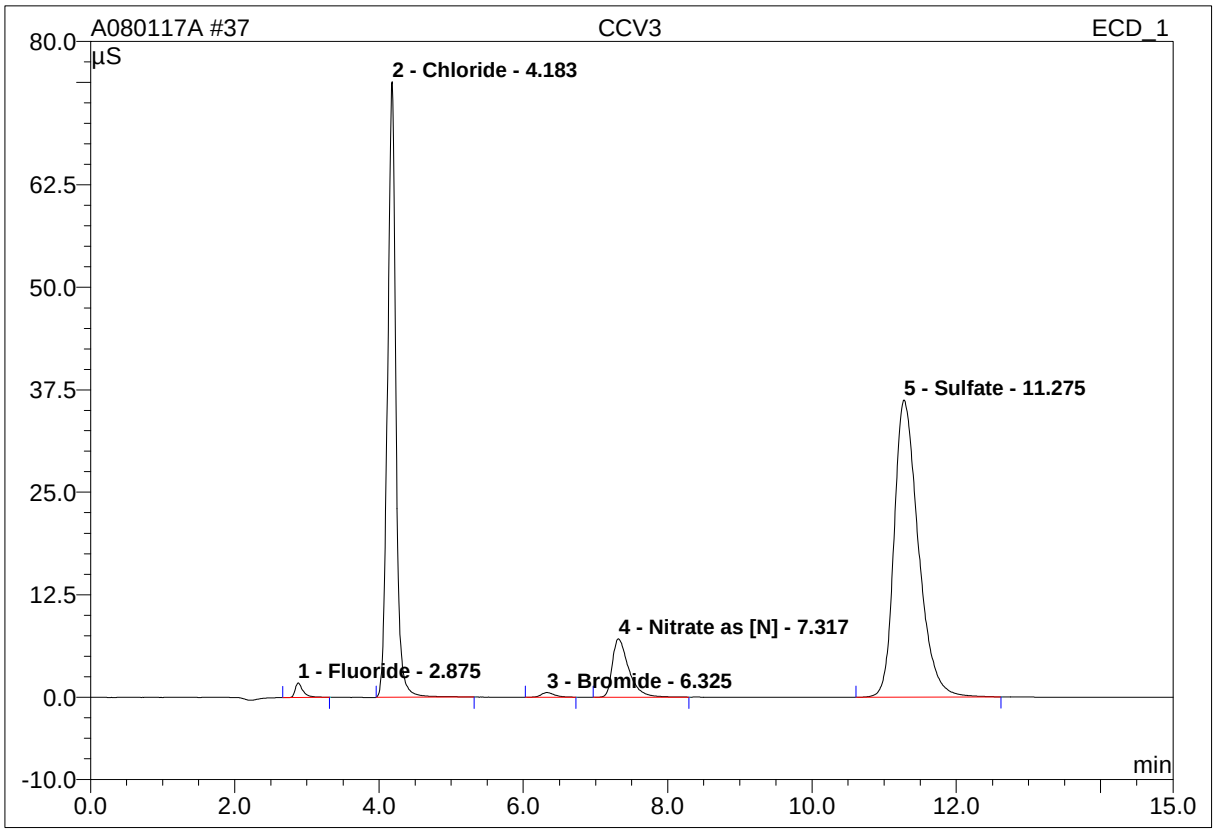
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.791	0.241	0.93	1.099	BM
2	3.63	n.a.	0.053	0.019	0.07	n.a.	MB
3	4.18	Chloride	75.800	10.056	38.71	50.354	bMB
4	6.26	Bromide	0.562	0.117	0.45	1.907	BMB
5	7.23	Nitrate as [N]	7.242	1.867	7.19	4.994	BMB
6	11.29	Sulfate	36.280	13.680	52.66	99.646	BMB
Total:			121.729	25.978	100.00	158.000	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

37 CCV3

Sample Name:	**CCV3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 7:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



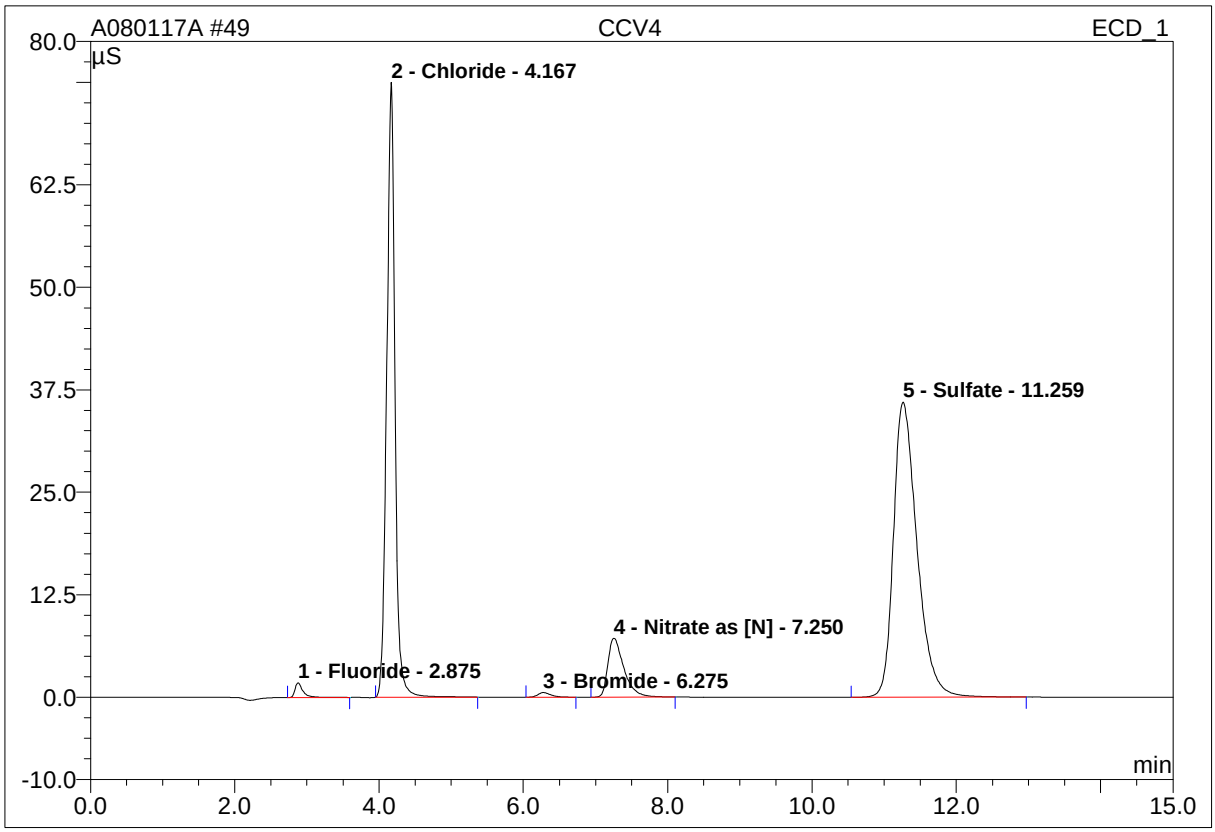
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.782	0.225	0.86	1.030	BMB
2	4.18	Chloride	75.054	10.008	38.02	50.130	BMB
3	6.33	Bromide	0.571	0.124	0.47	2.024	BMB
4	7.32	Nitrate as [N]	7.126	1.876	7.13	5.018	BMB
5	11.28	Sulfate	36.256	14.087	53.52	102.413	BMB
Total:			120.789	26.320	100.00	160.615	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

49 CCV4

Sample Name:	**CCV4**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 11:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



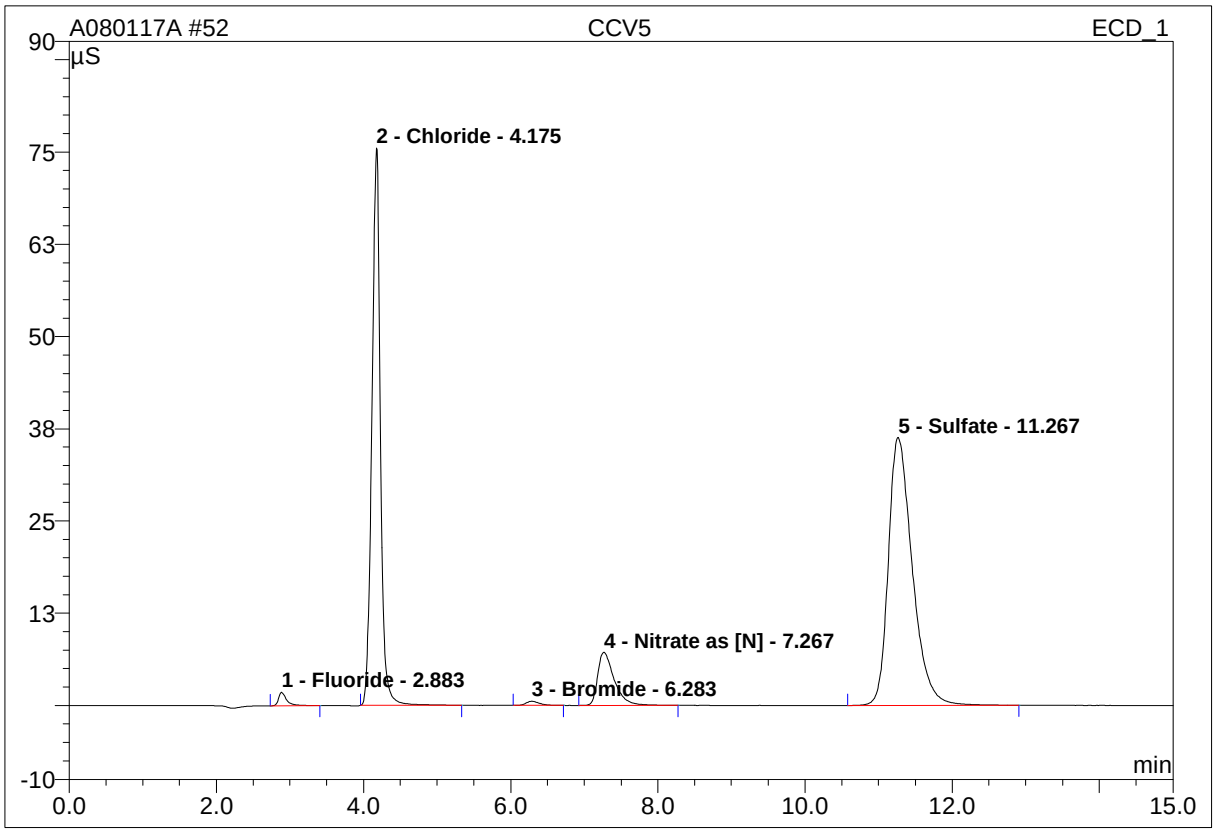
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.802	0.233	0.90	1.066	BMB
2	4.17	Chloride	74.972	9.978	38.67	49.989	BMB
3	6.28	Bromide	0.567	0.121	0.47	1.978	BMB
4	7.25	Nitrate as [N]	7.179	1.849	7.17	4.950	BMB
5	11.26	Sulfate	36.013	13.623	52.79	99.258	BMB
Total:			120.534	25.805	100.00	157.241	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

52 CCV5

Sample Name:	**CCV5**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 12:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.821	0.231	0.89	1.057	BMB
2	4.18	Chloride	75.535	10.055	38.70	50.353	BMB
3	6.28	Bromide	0.568	0.119	0.46	1.940	BMB
4	7.27	Nitrate as [N]	7.214	1.866	7.18	4.993	BMB
5	11.27	Sulfate	36.290	13.711	52.77	99.856	BMB
Total:			121.428	25.982	100.00	158.199	

modified on: n.a. By: OLH/EMW

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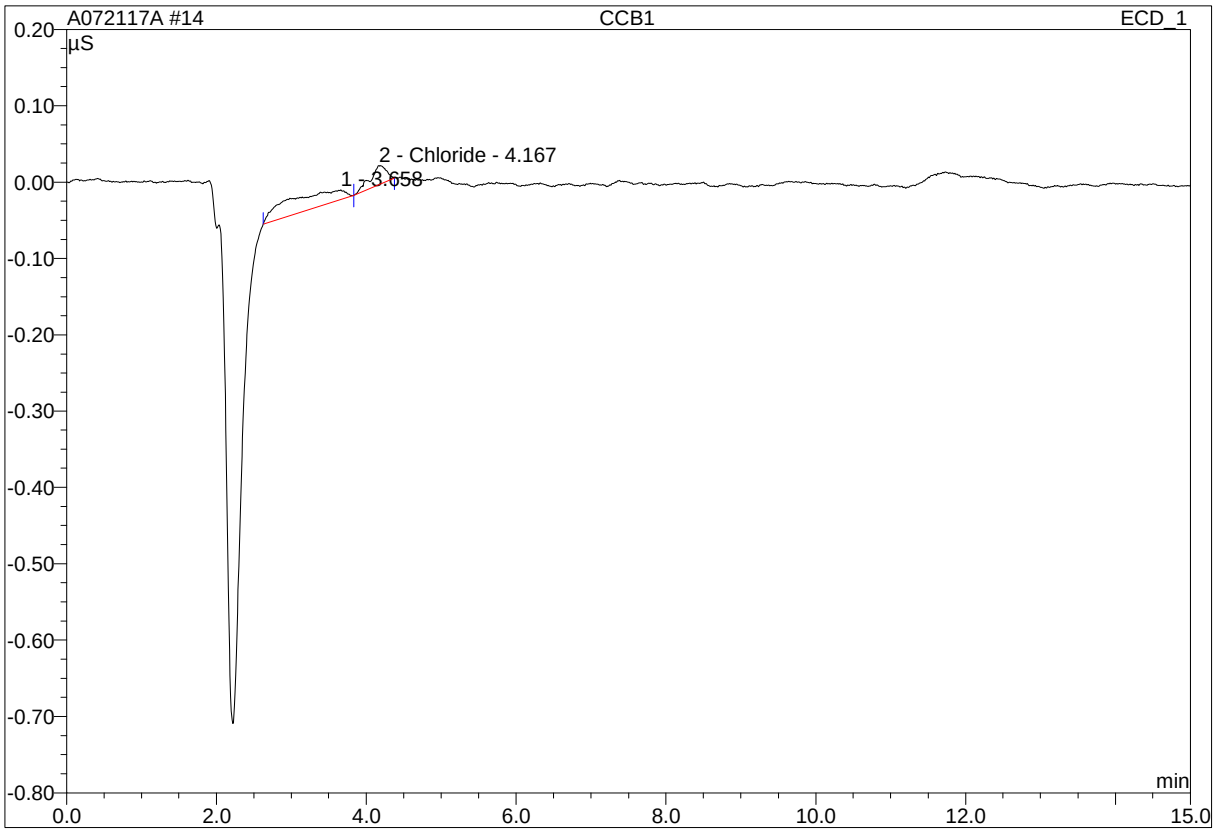
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - CCB

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



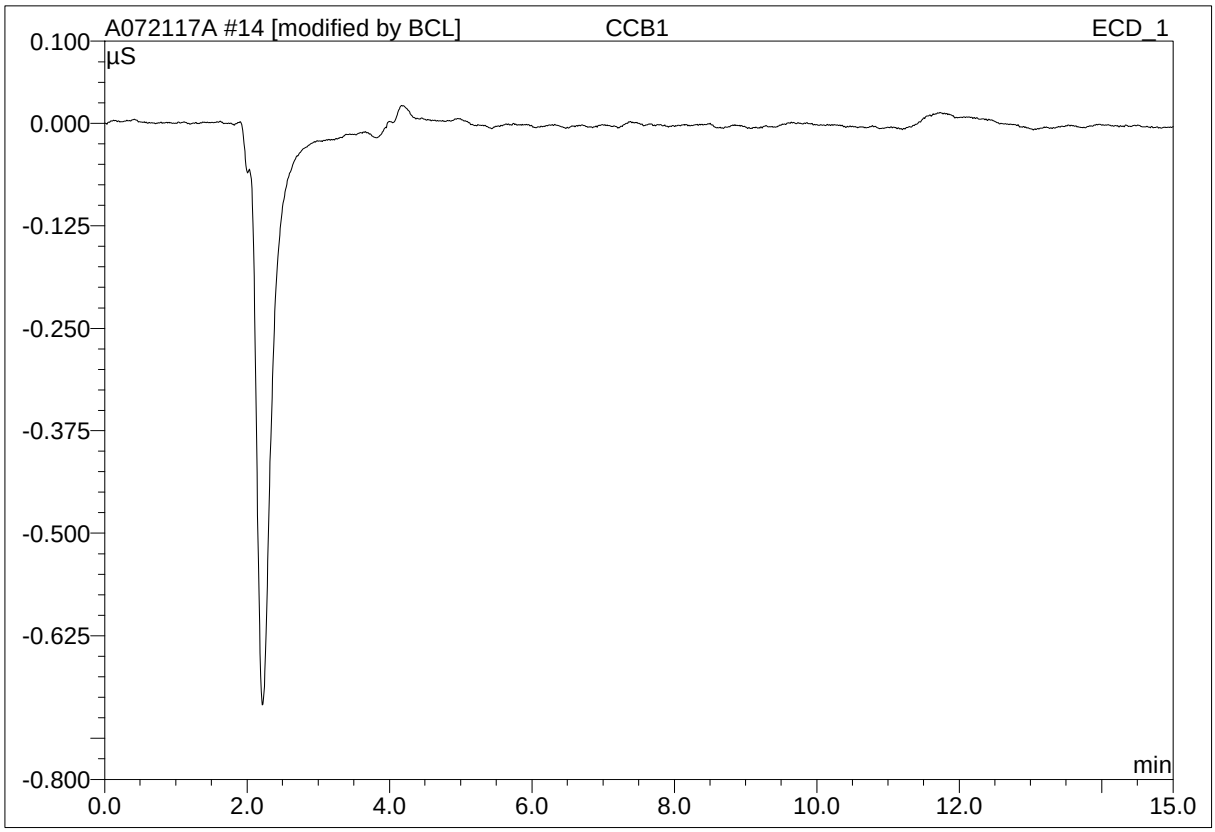
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.66	n.a.	0.013	0.018	74.51	n.a.	BMb
2	4.17	Chloride	0.025	0.006	25.49	0.160	bMB
Total:			0.038	0.024	100.00	0.160	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



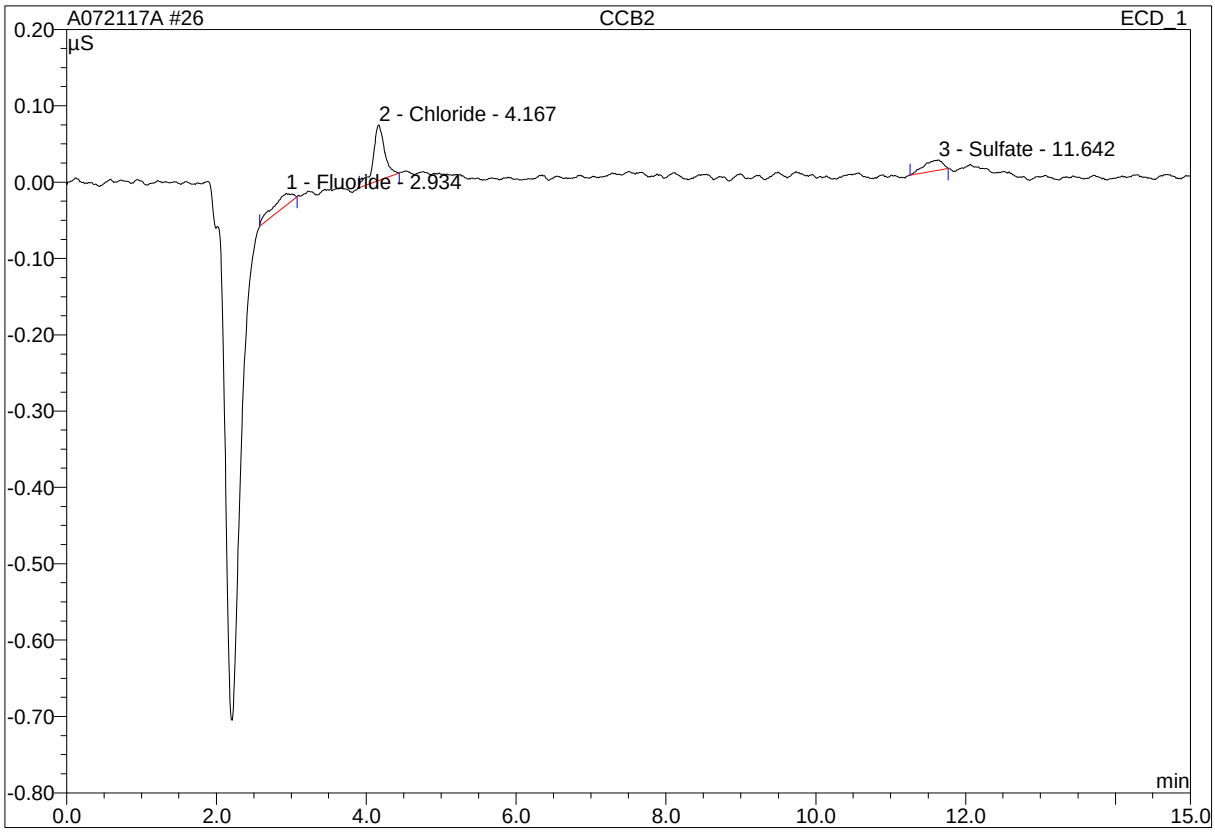
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:18 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 8:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



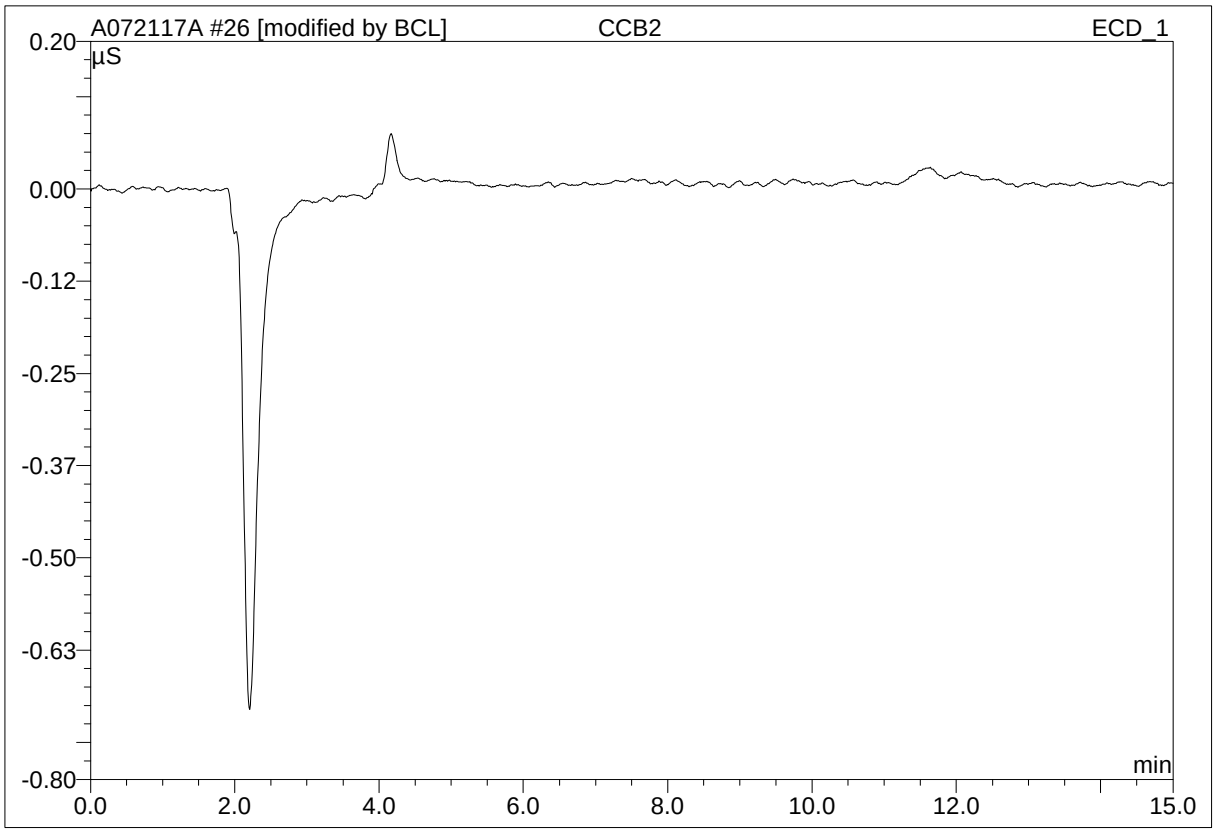
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.93	Fluoride	0.015	0.005	22.92	0.034	BMB
2	4.17	Chloride	0.073	0.013	58.42	0.195	BMB
3	11.64	Sulfate	0.014	0.004	18.66	0.208	BMB
Total:			0.101	0.022	100.00	0.436	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 8:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



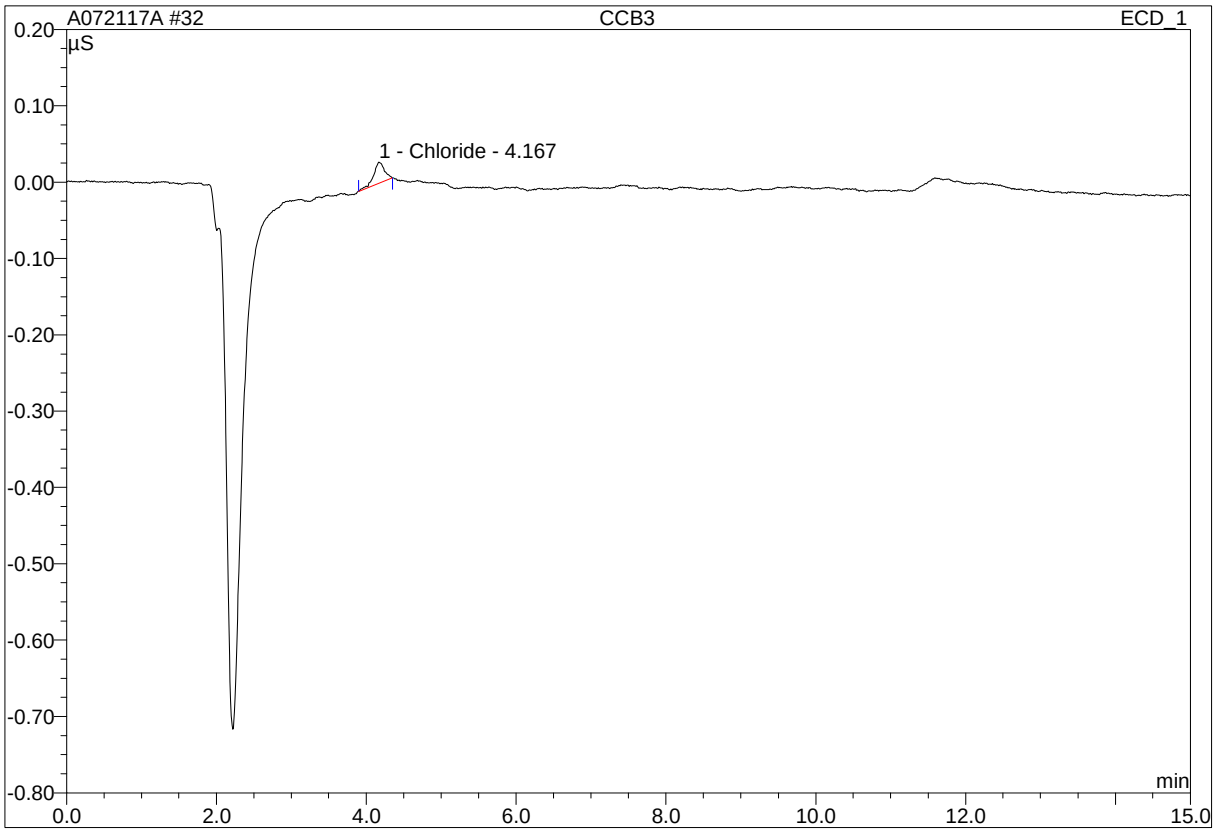
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:21 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

32 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 10:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.028	0.005	100.00	0.152	BMB
Total:			0.028	0.005	100.00	0.152	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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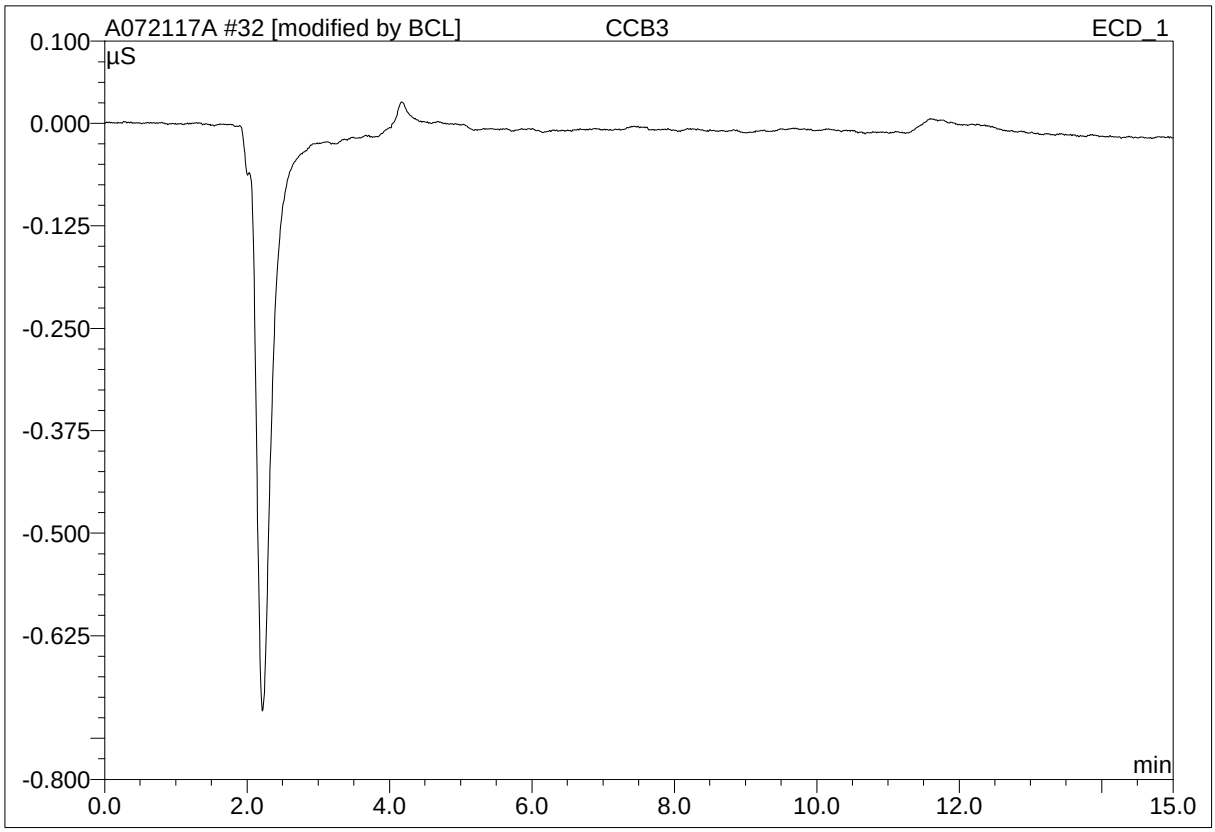
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

32 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 10:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:22 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
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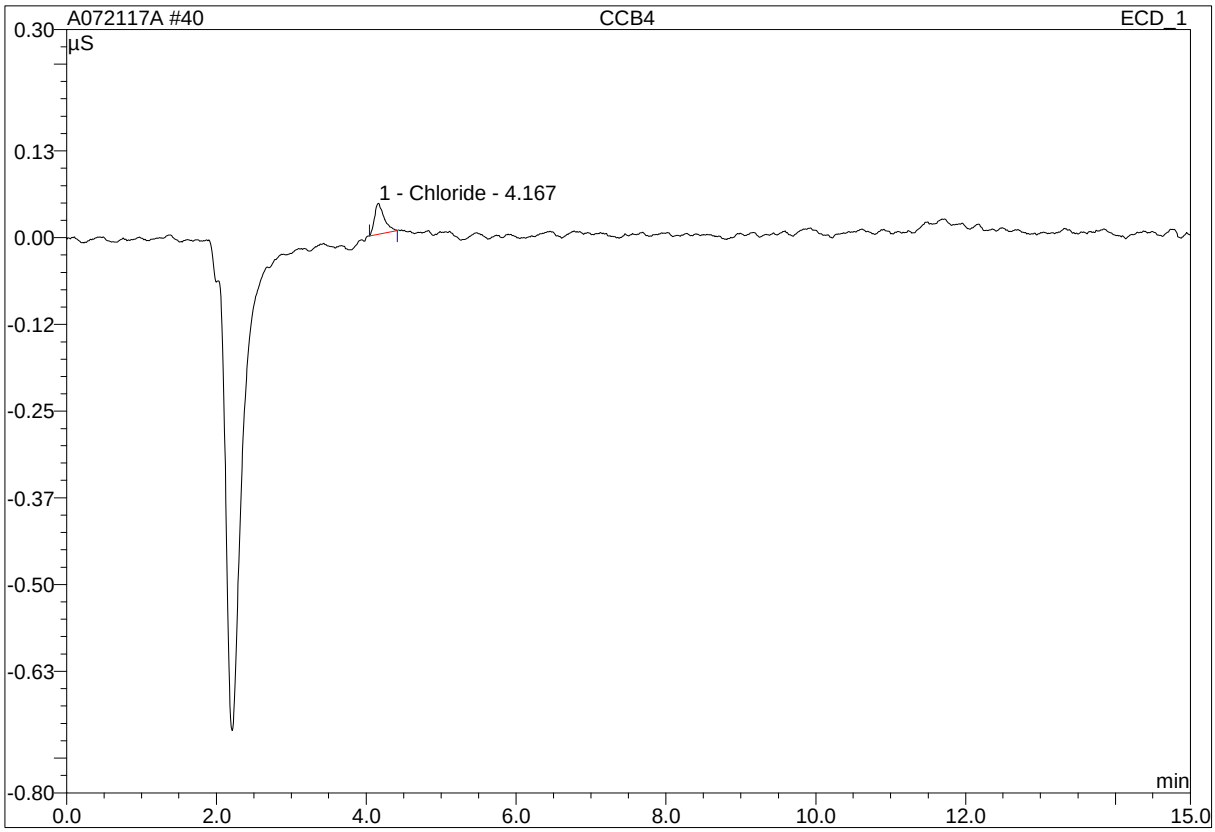
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

40 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.044	0.007	100.00	0.162	BMB
Total:			0.044	0.007	100.00	0.162	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
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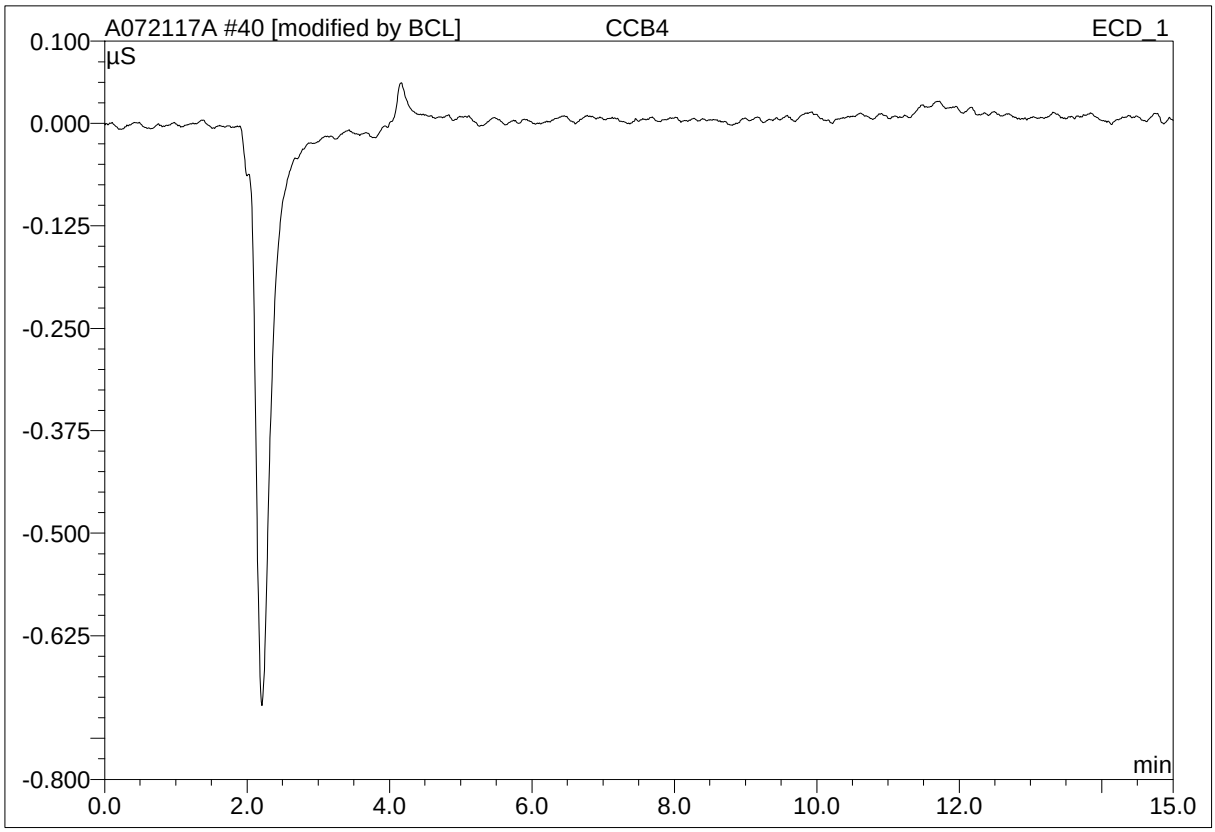
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

40 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



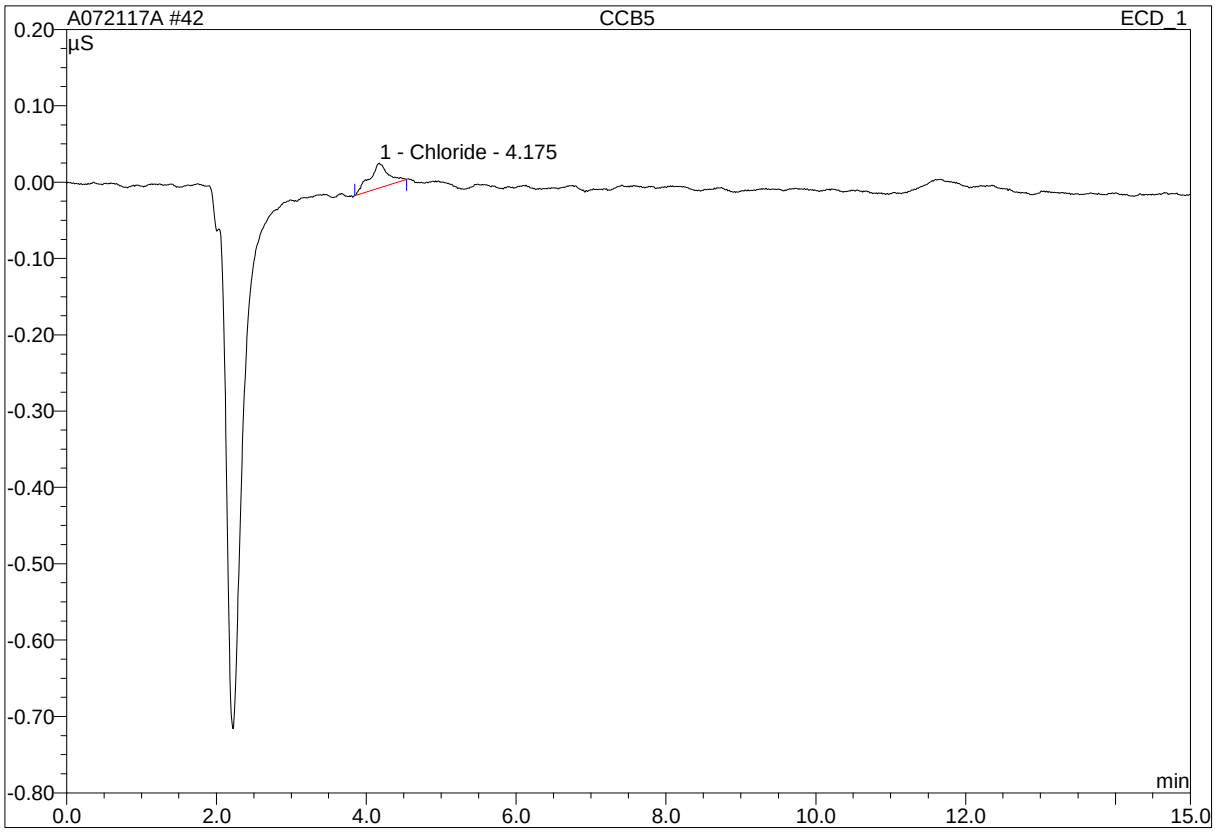
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:34 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

42 CCB5

Sample Name:	**CCB5**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 13:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



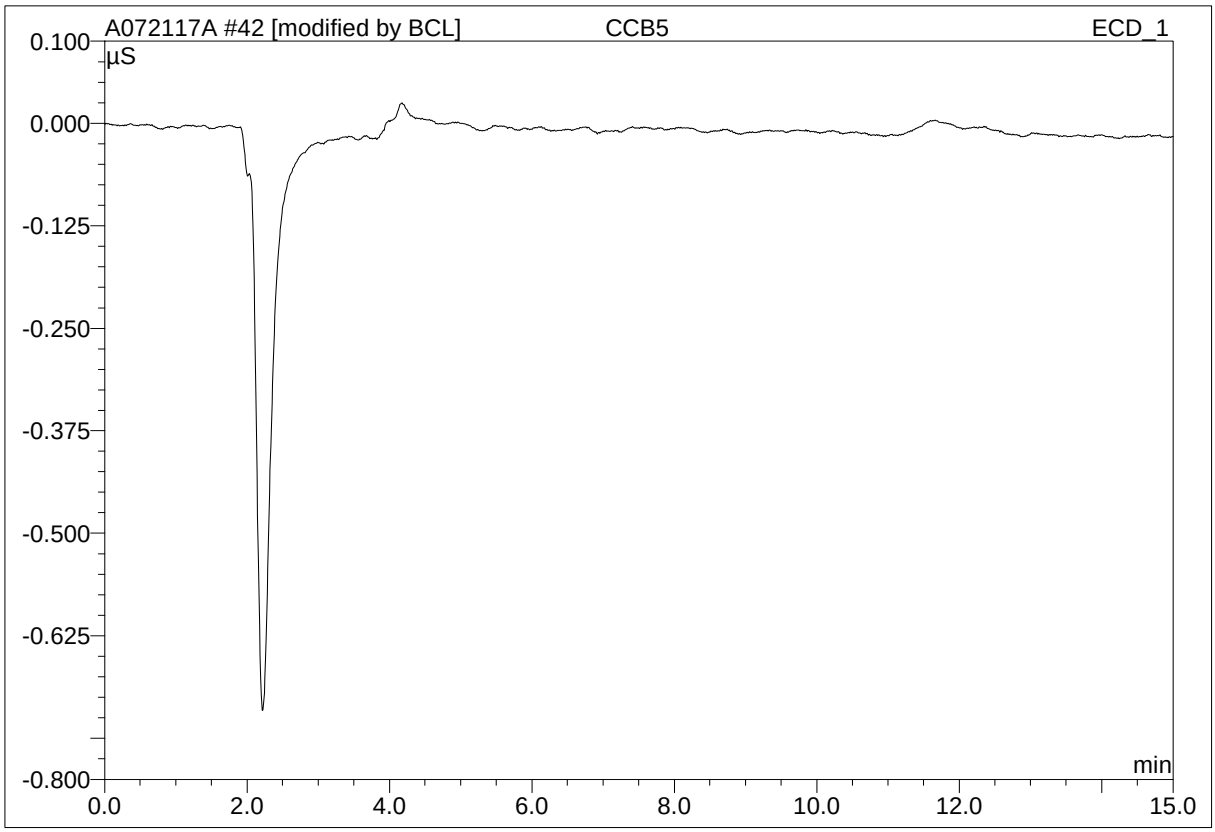
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.18	Chloride	0.033	0.009	100.00	0.177	BMB
Total:			0.033	0.009	100.00	0.177	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

42 CCB5

Sample Name:	**CCB5**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 13:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



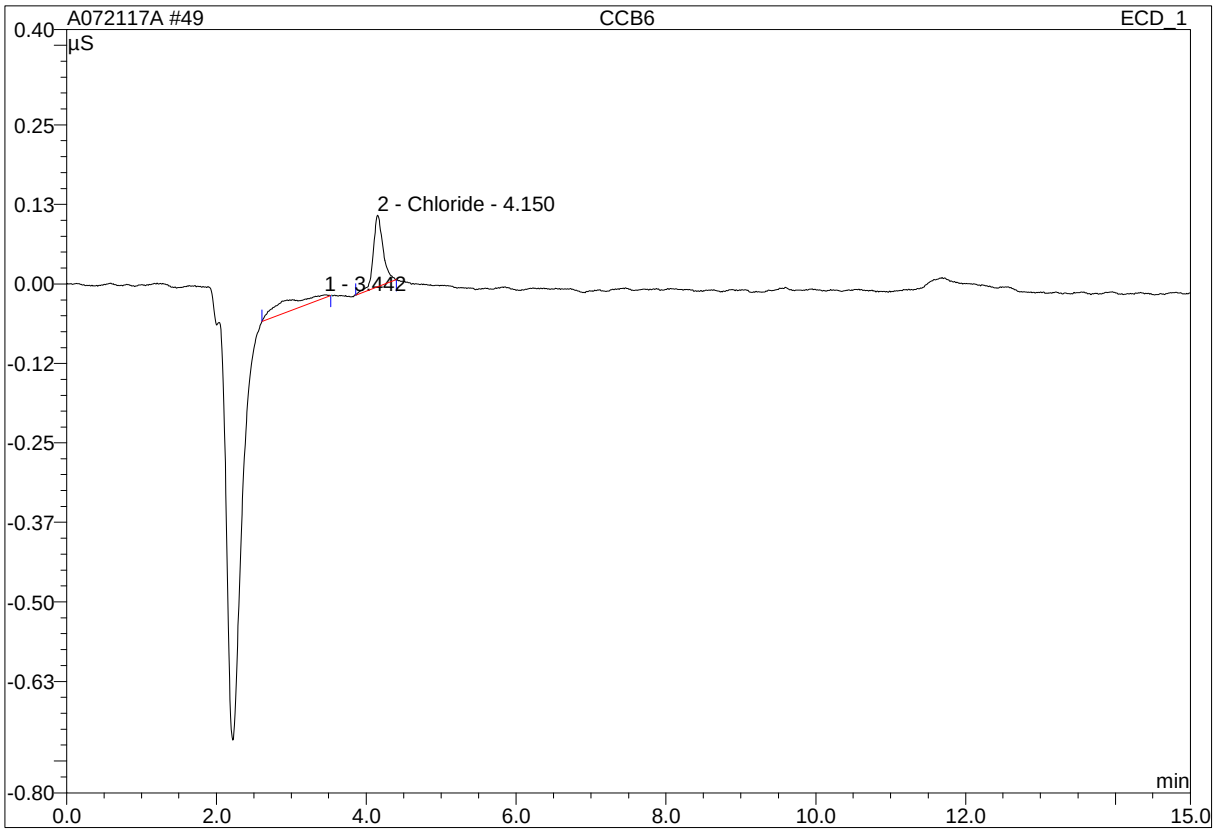
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:34 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

49 CCB6

Sample Name:	**CCB6**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



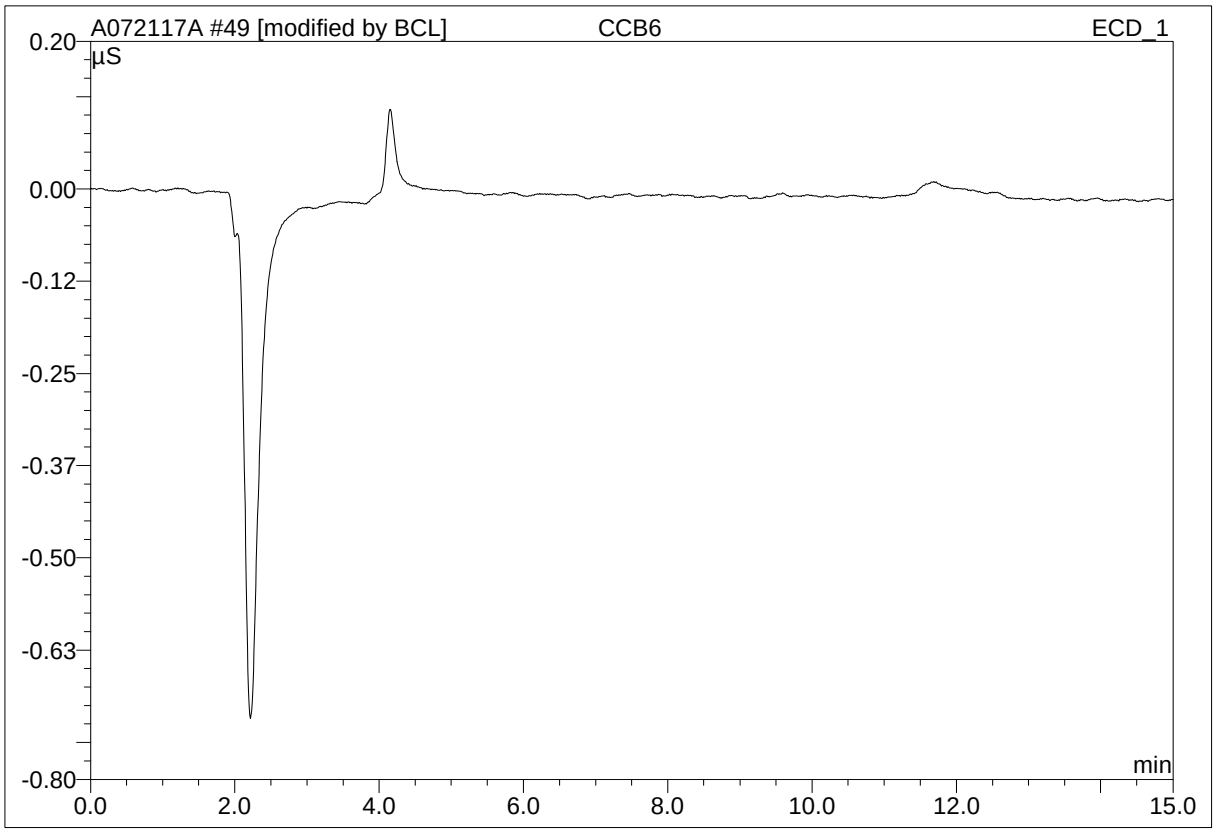
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.44	n.a.	0.005	0.010	36.57	n.a.	BMB
2	4.15	Chloride	0.112	0.017	63.43	0.217	BMB
Total:			0.117	0.027	100.00	0.217	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

49 CCB6

Sample Name:	**CCB6**	*Injection Volume:*	**25.0**
Vial Number:	**24**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 15:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



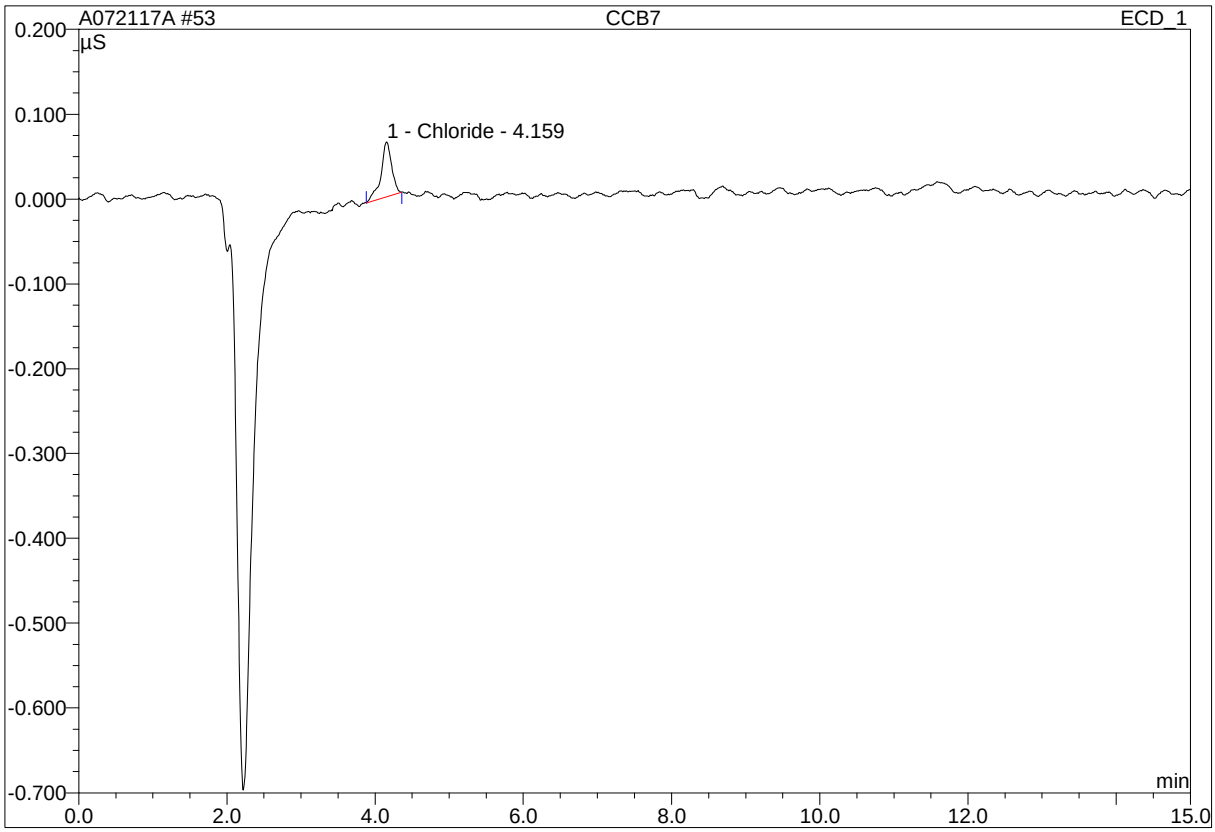
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:35 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

53 CCB7

Sample Name:	**CCB7**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



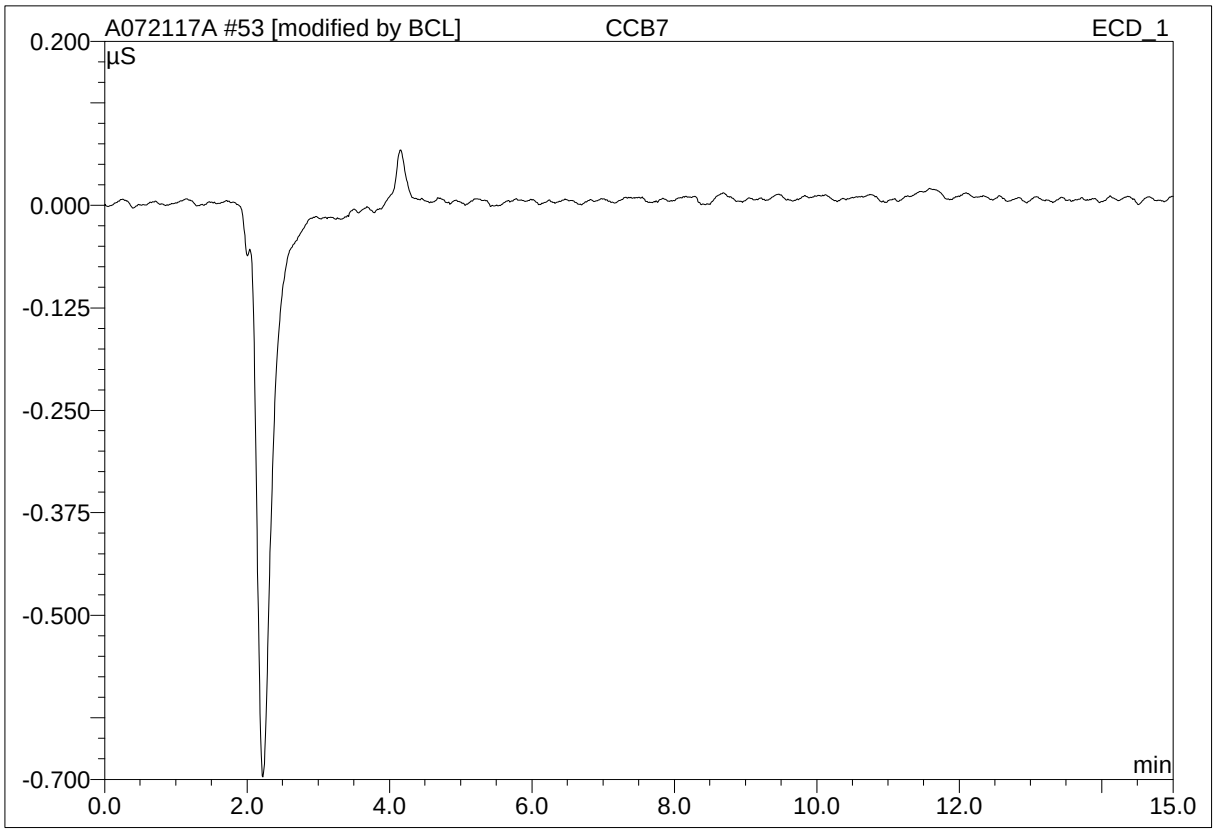
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.065	0.011	100.00	0.184	BMB
Total:			0.065	0.011	100.00	0.184	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

53 CCB7

Sample Name:	**CCB7**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



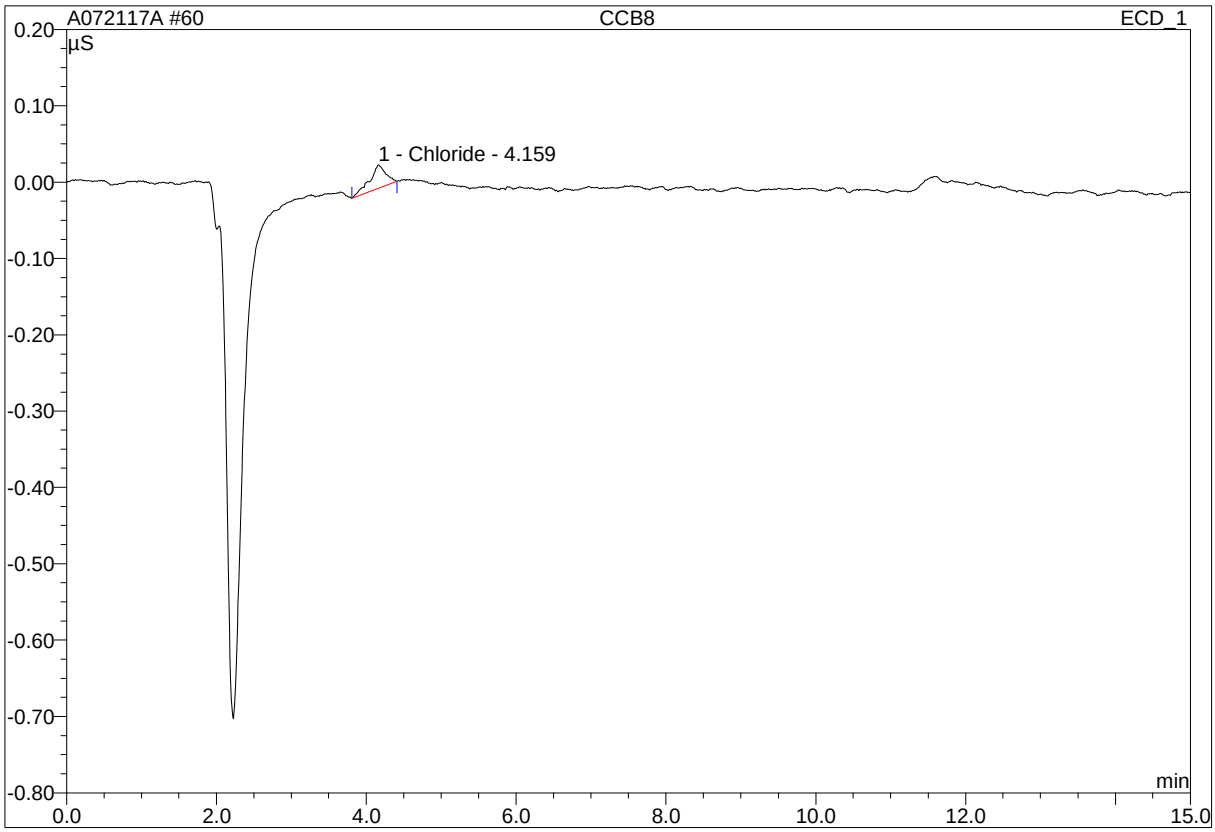
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 22:24 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

60 CCB8

Sample Name:	**CCB8**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 21:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



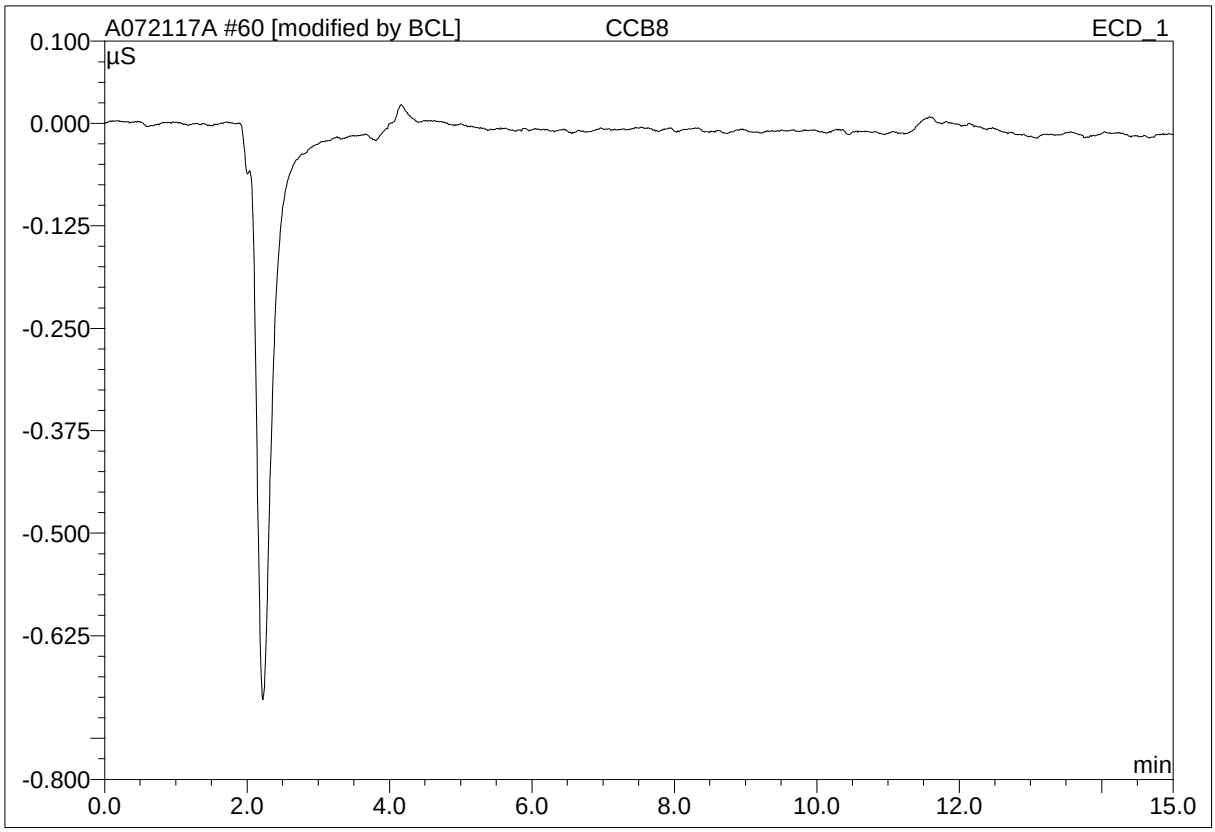
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.031	0.008	100.00	0.168	BMB
Total:			0.031	0.008	100.00	0.168	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

60 CCB8

Sample Name:	**CCB8**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 21:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



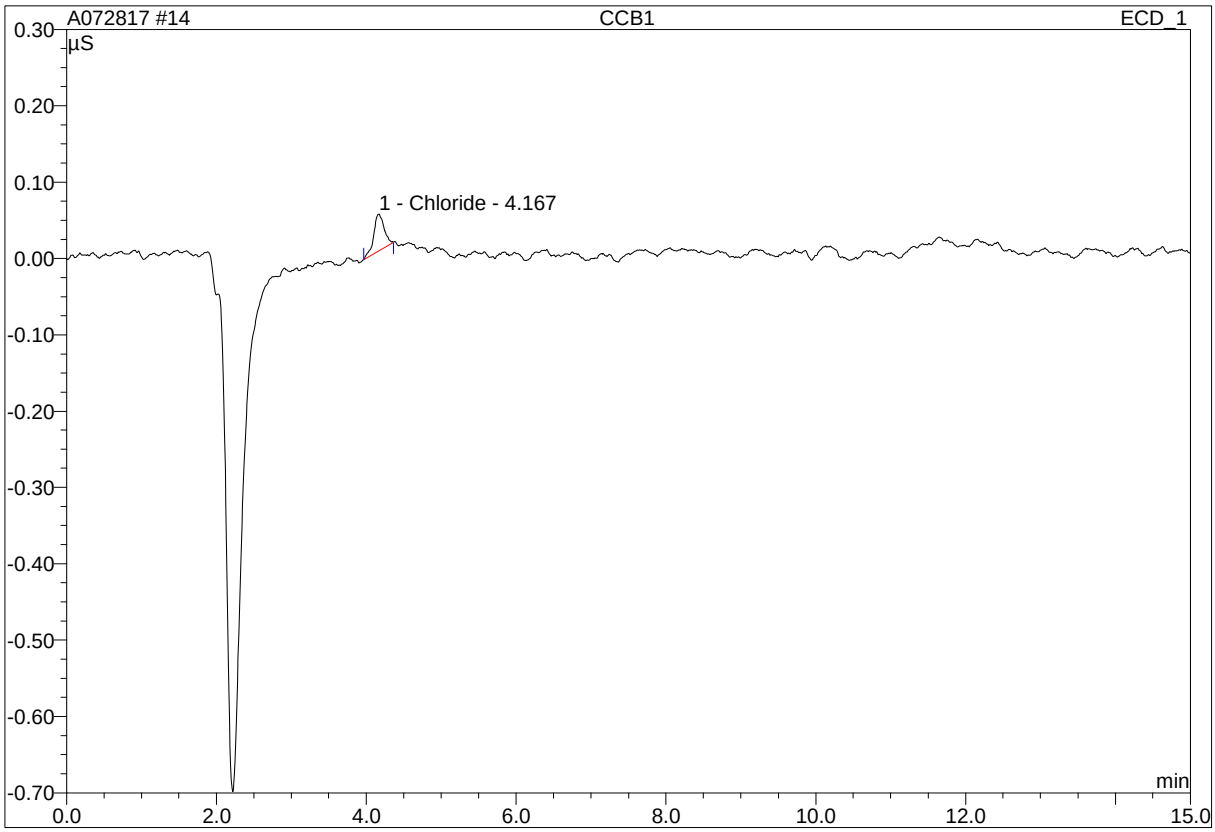
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 22:25 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 19:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



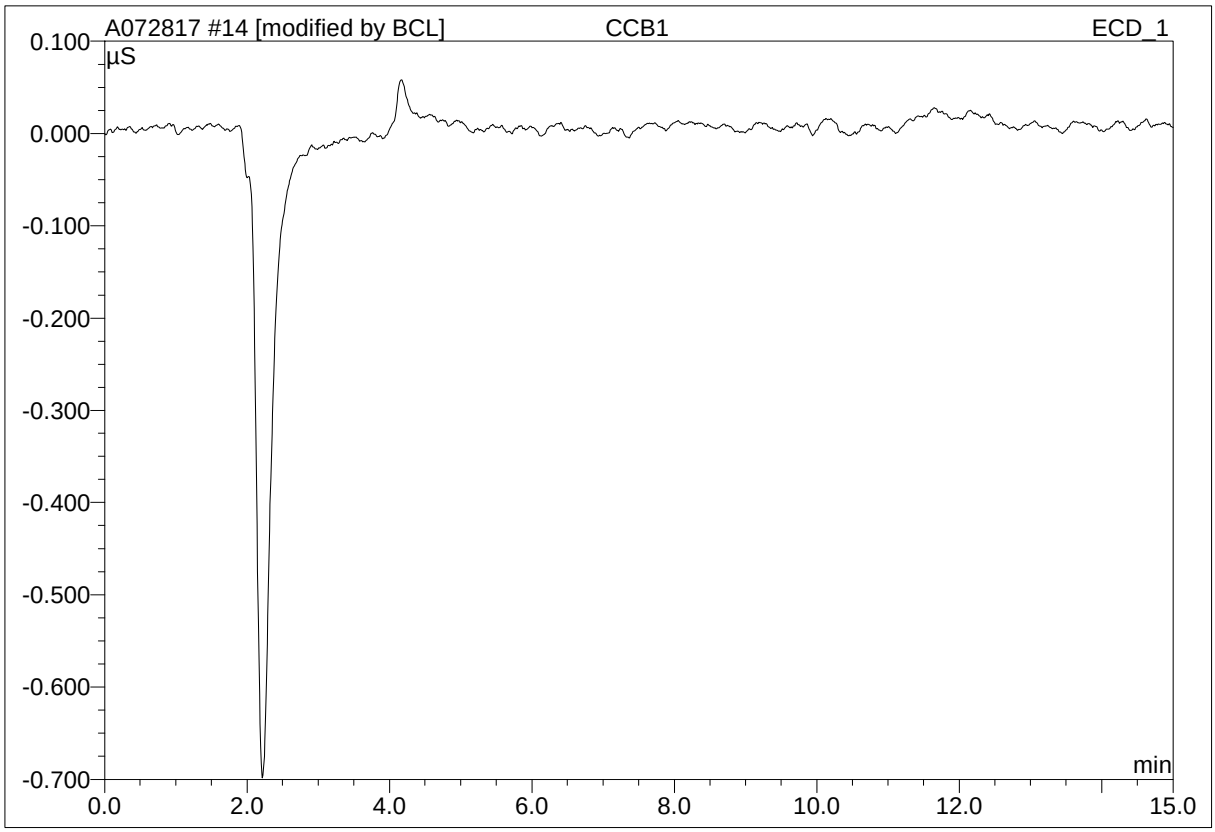
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.048	0.008	100.00	0.166	BMB
Total:			0.048	0.008	100.00	0.166	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 19:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



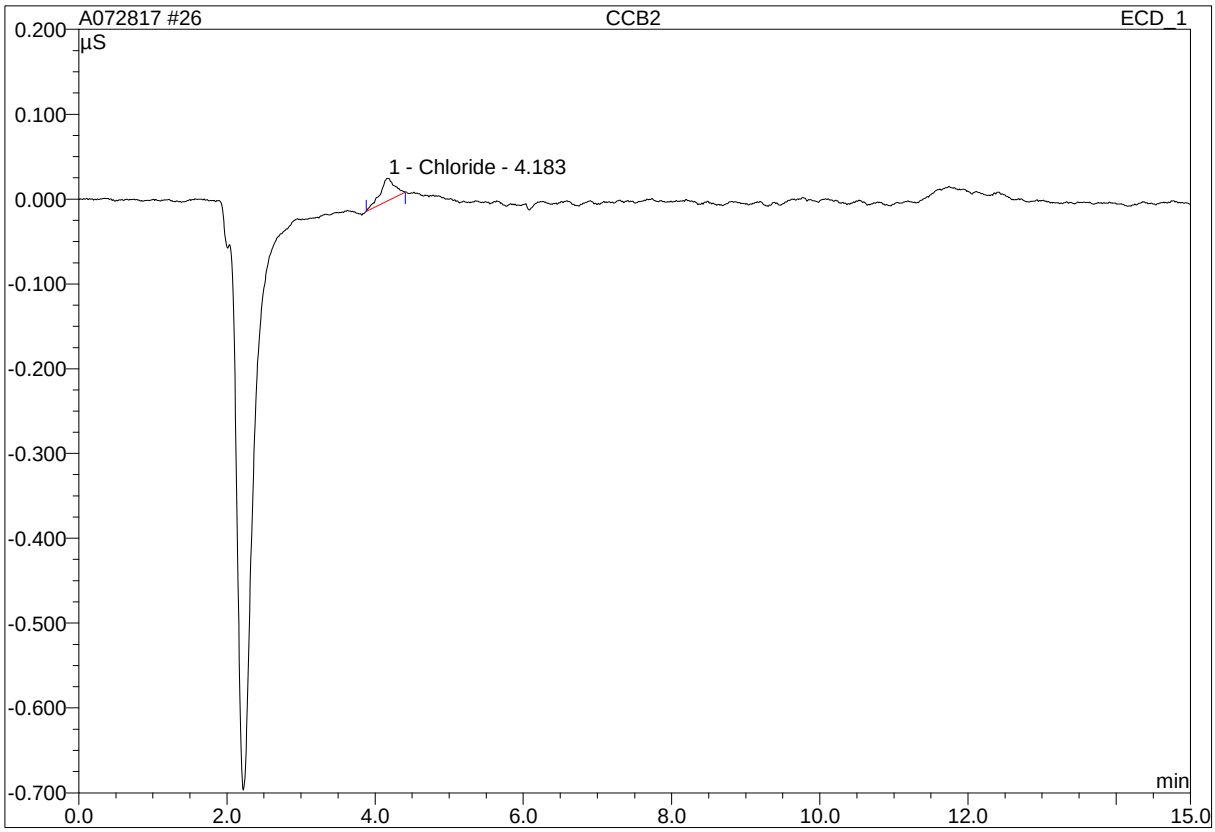
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.28.17 20:43 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 23:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



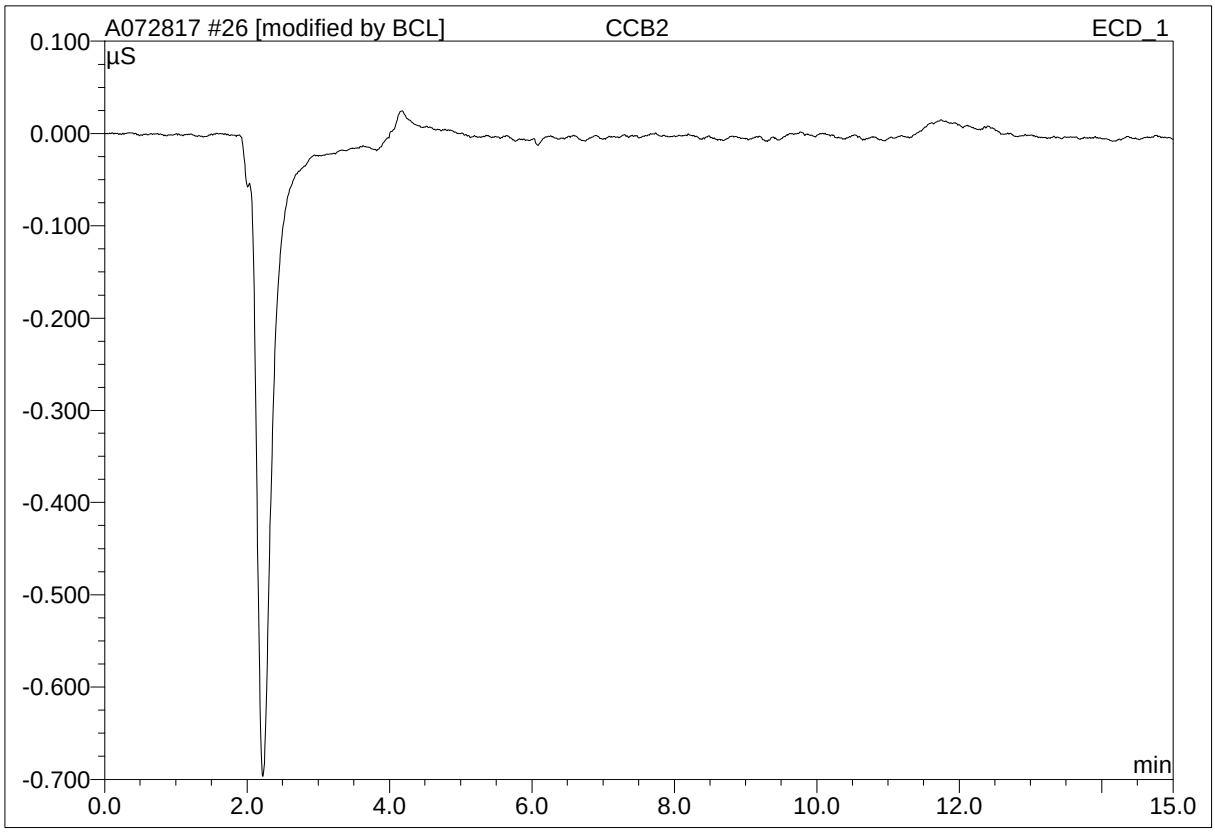
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.18	Chloride	0.026	0.006	100.00	0.158	BMB
Total:			0.026	0.006	100.00	0.158	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 23:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



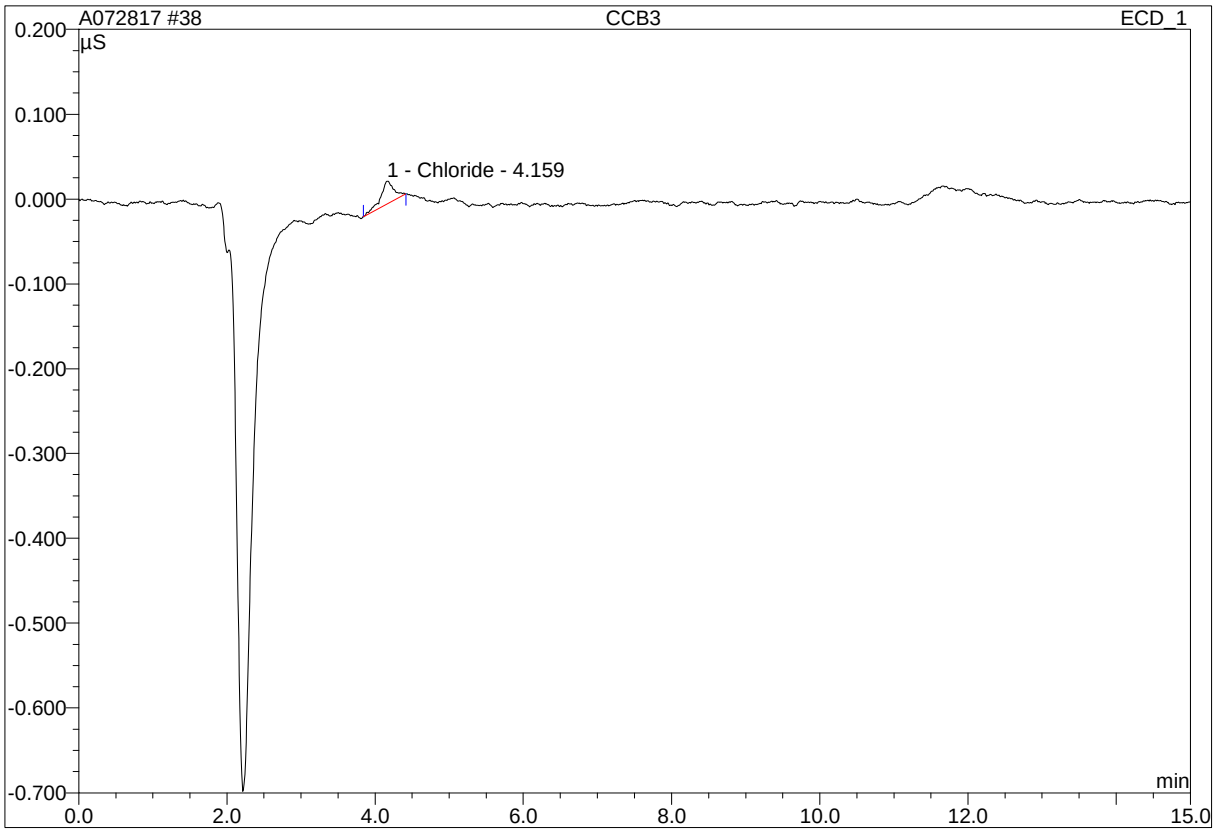
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.29.17 10:13 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/29/2017 2:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



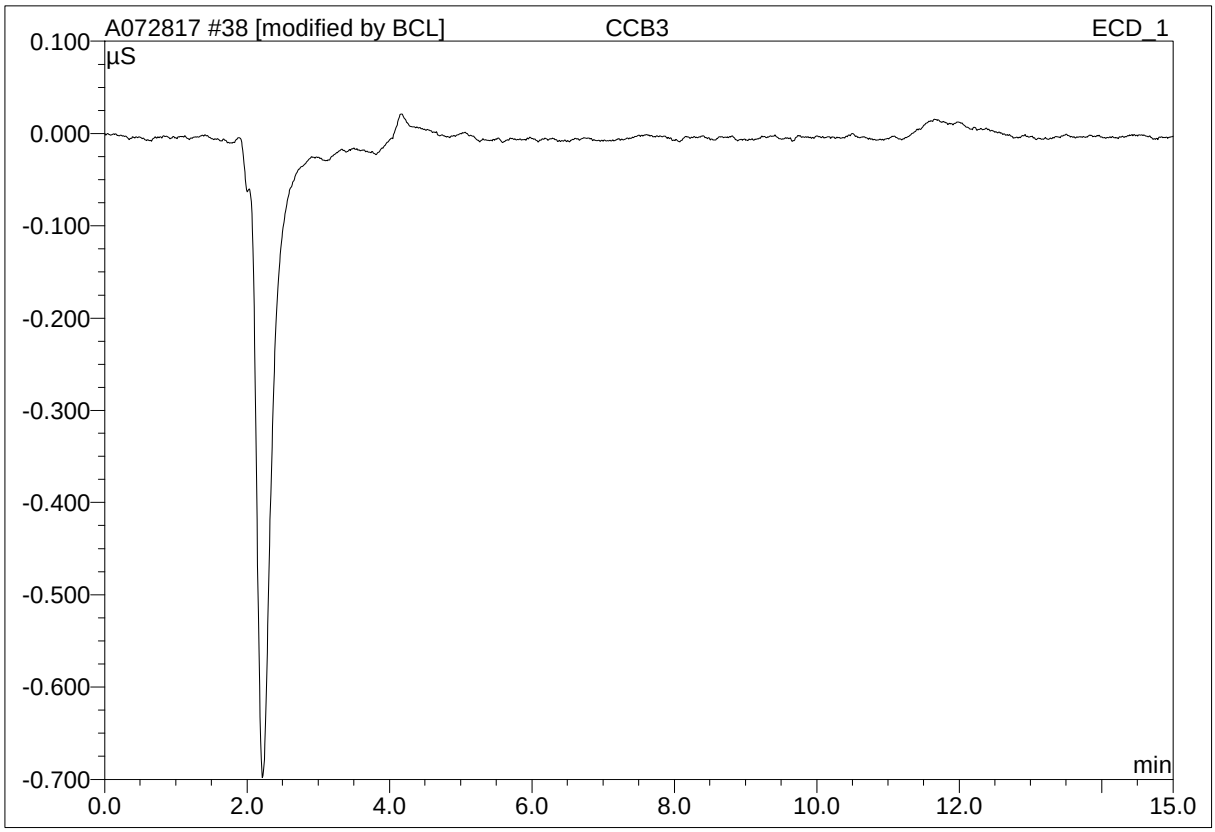
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.027	0.006	100.00	0.155	BMB
Total:			0.027	0.006	100.00	0.155	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/29/2017 2:39**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



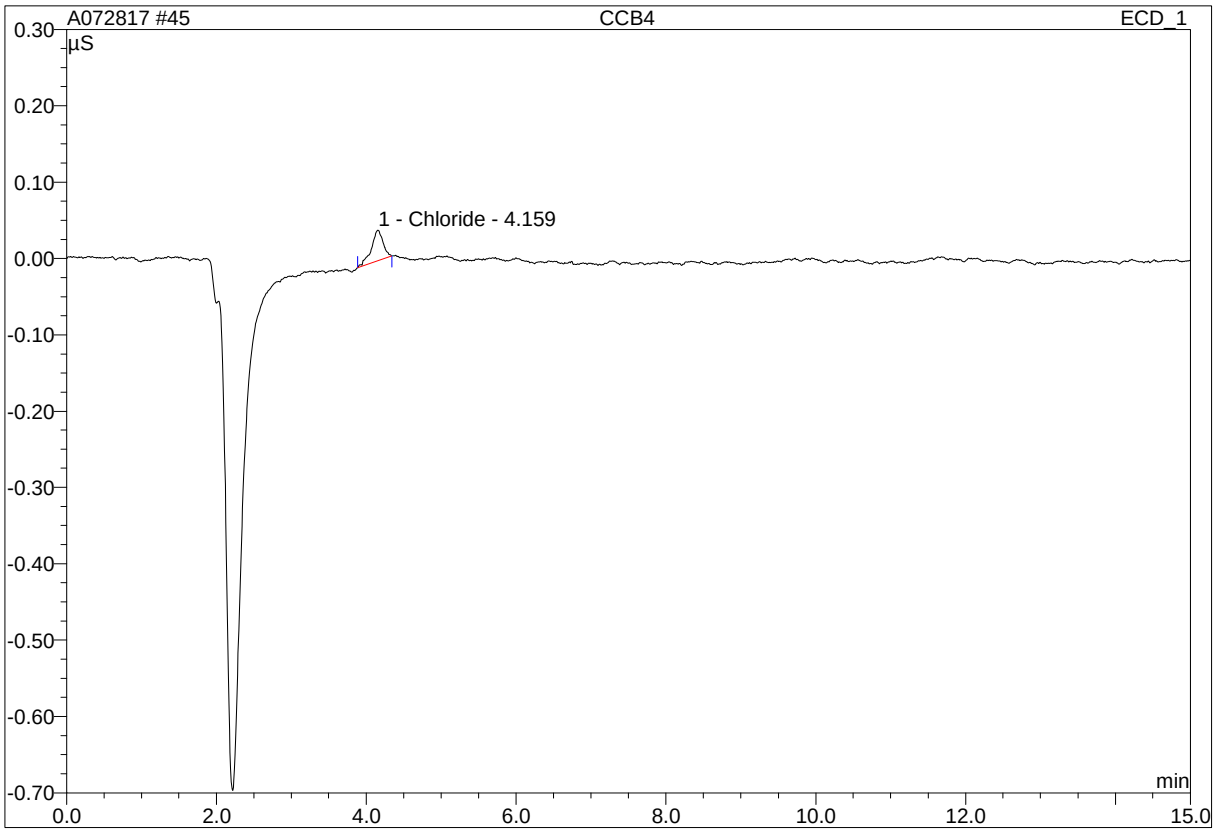
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.29.17 10:17 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

45 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/29/2017 4:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



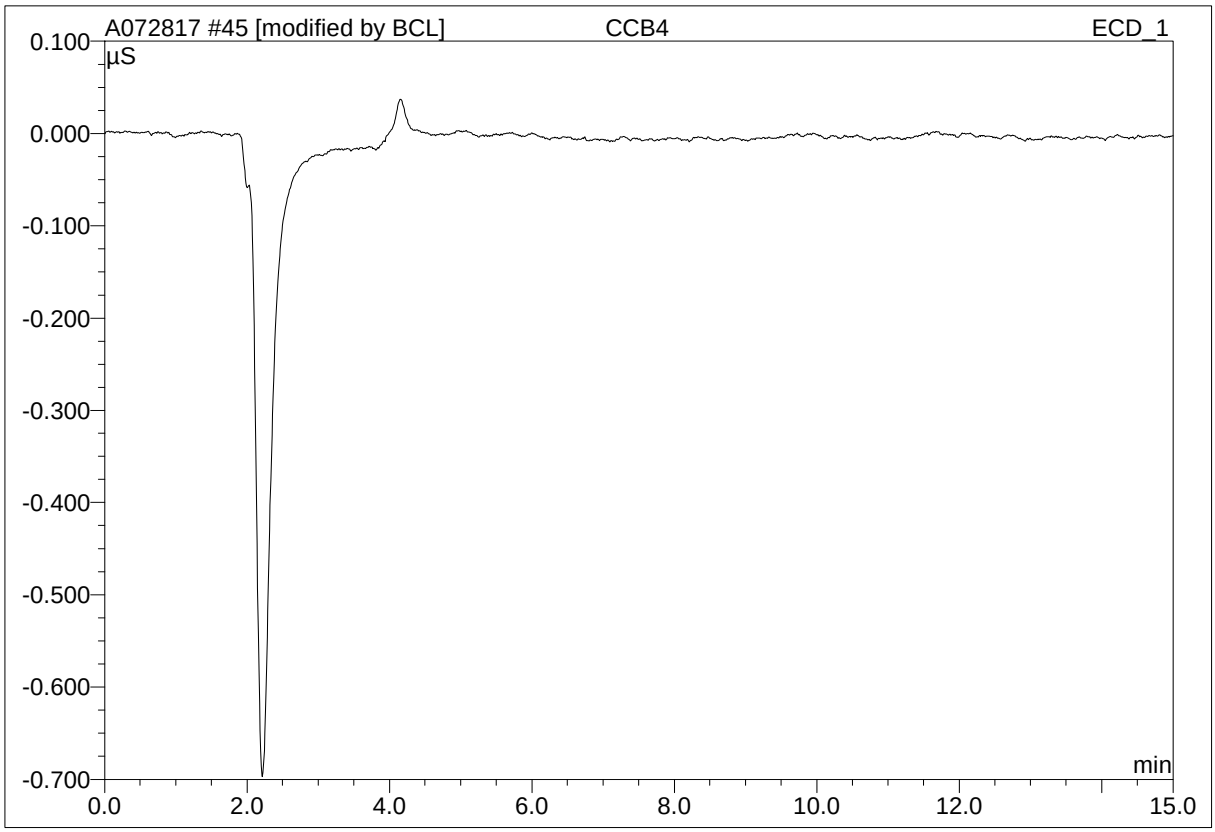
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.040	0.007	100.00	0.163	BMB
Total:			0.040	0.007	100.00	0.163	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

45 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/29/2017 4:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



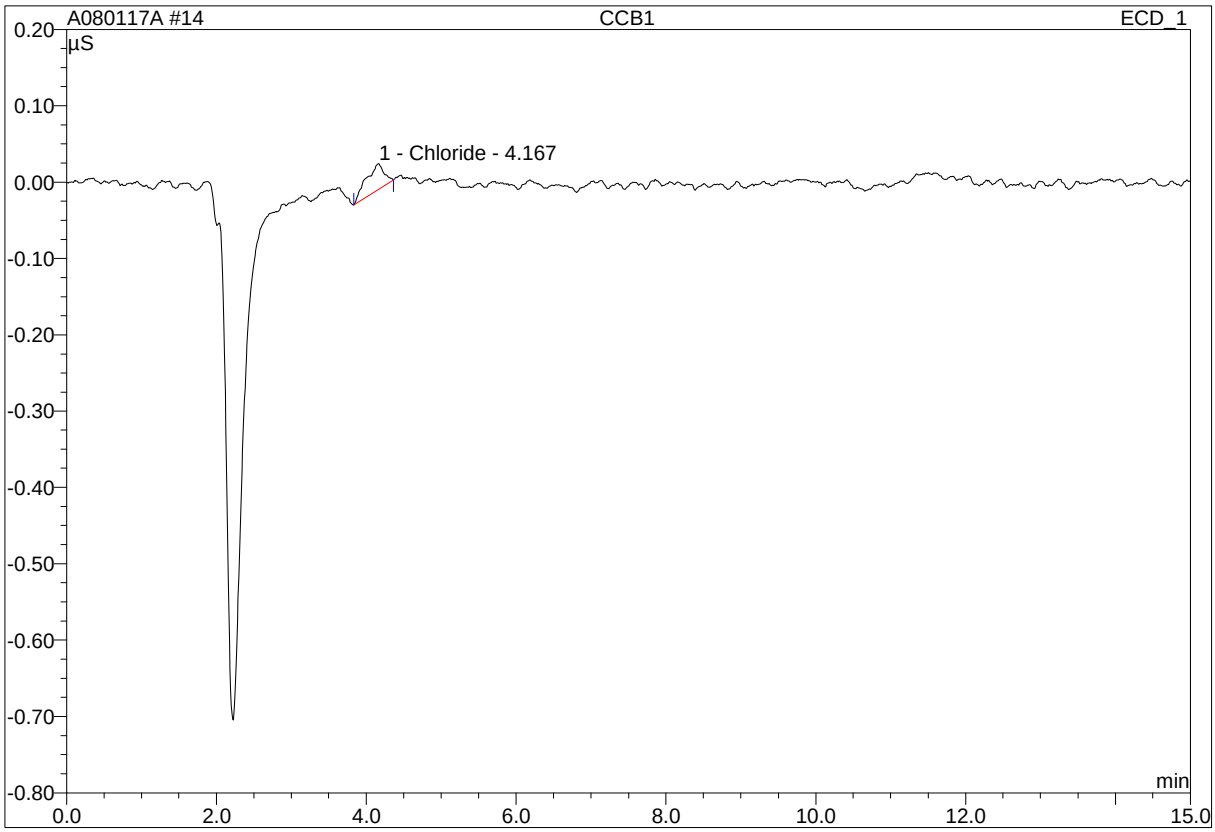
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.29.17 10:24 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 0:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



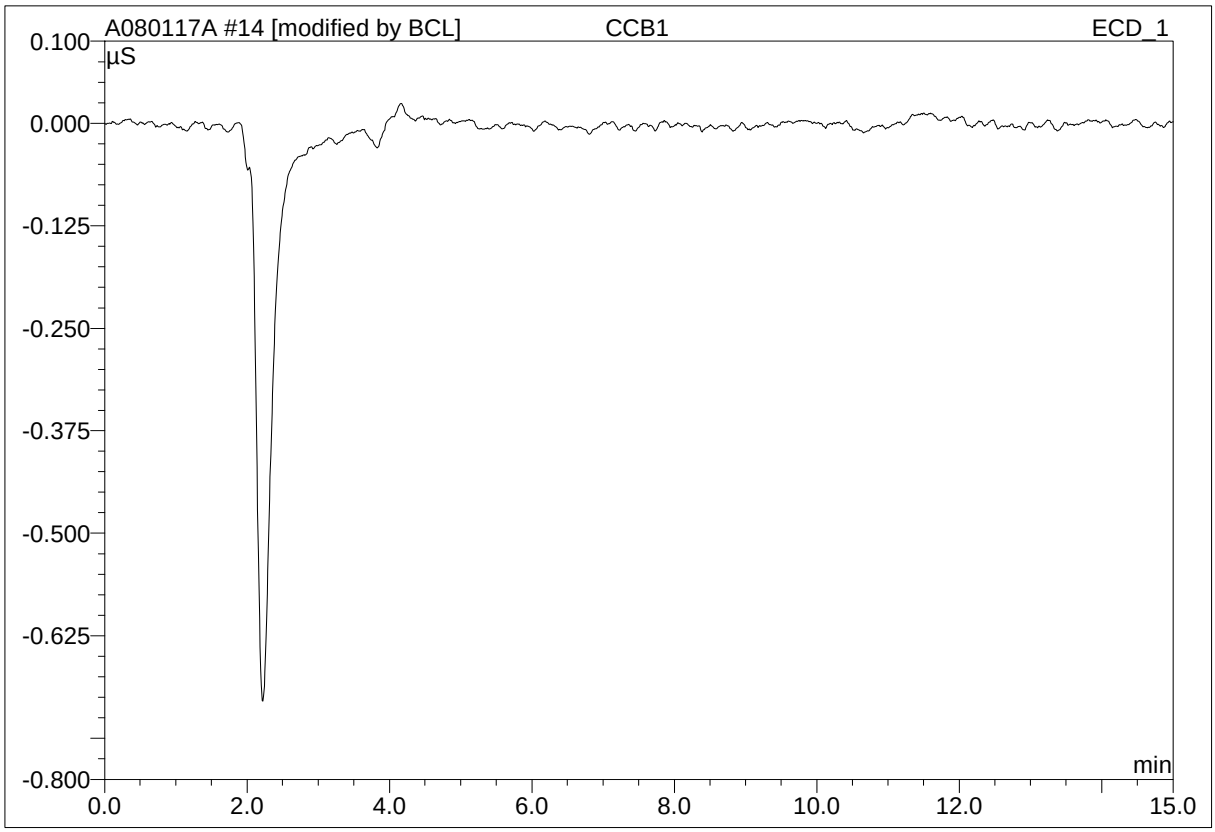
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.034	0.010	100.00	0.185	BMB
Total:			0.034	0.010	100.00	0.185	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 0:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



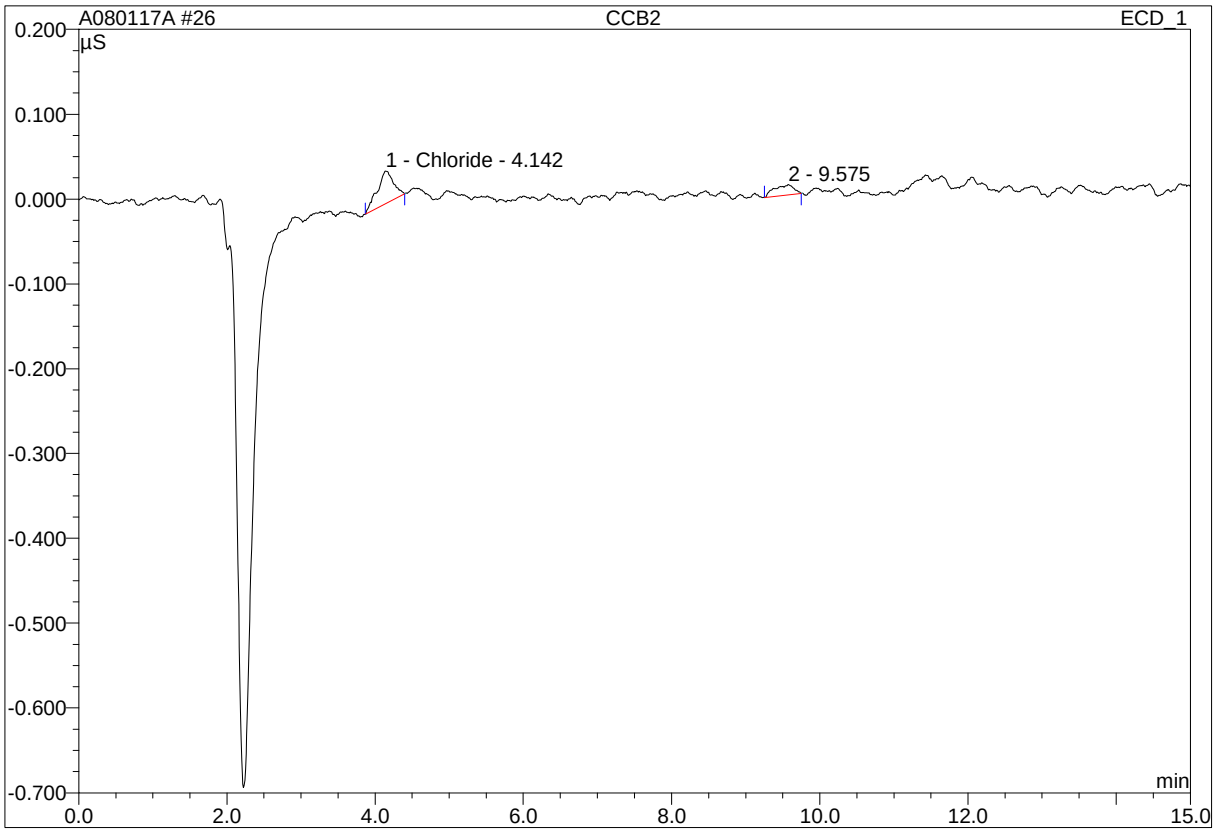
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 08.02.17 07:50 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 4:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



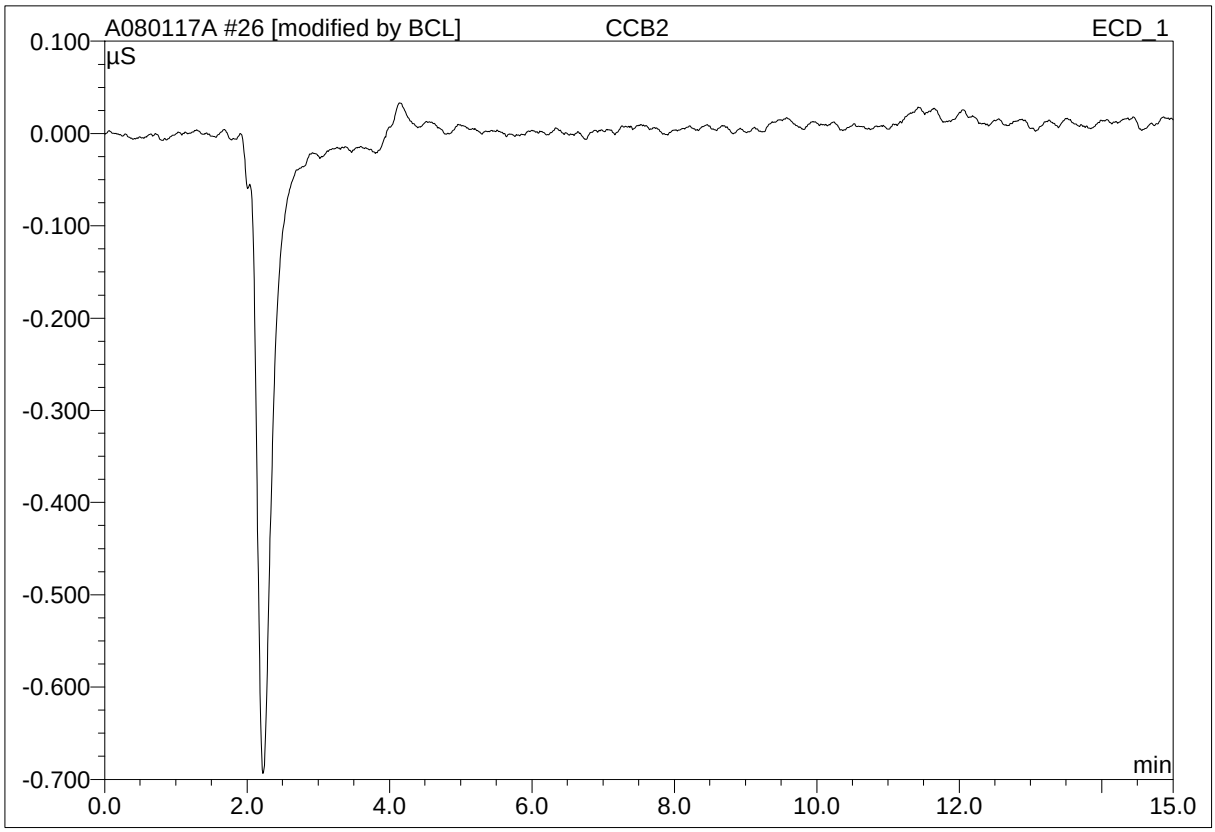
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.14	Chloride	0.039	0.010	72.35	0.185	BMB
2	9.58	n.a.	0.012	0.004	27.65	n.a.	BMB
Total:			0.051	0.014	100.00	0.185	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 4:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



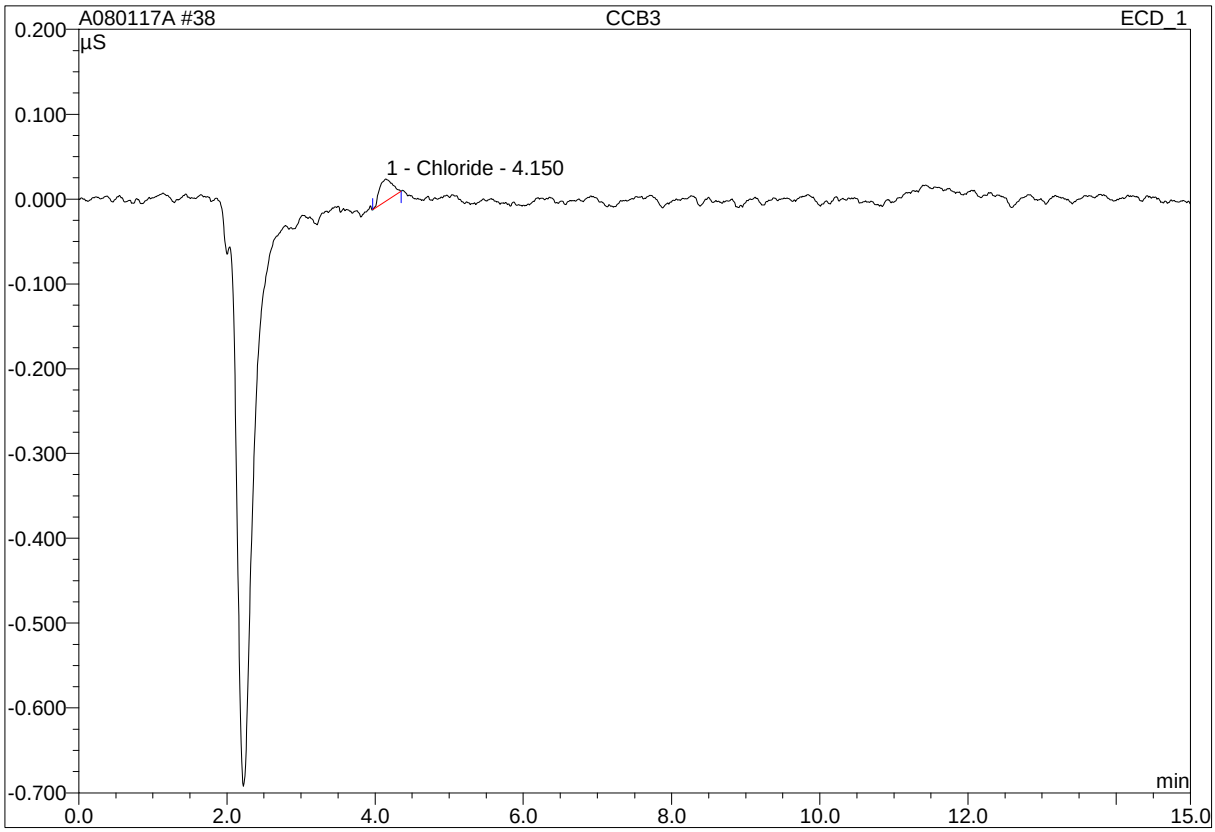
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 08.02.17 07:51 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 7:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



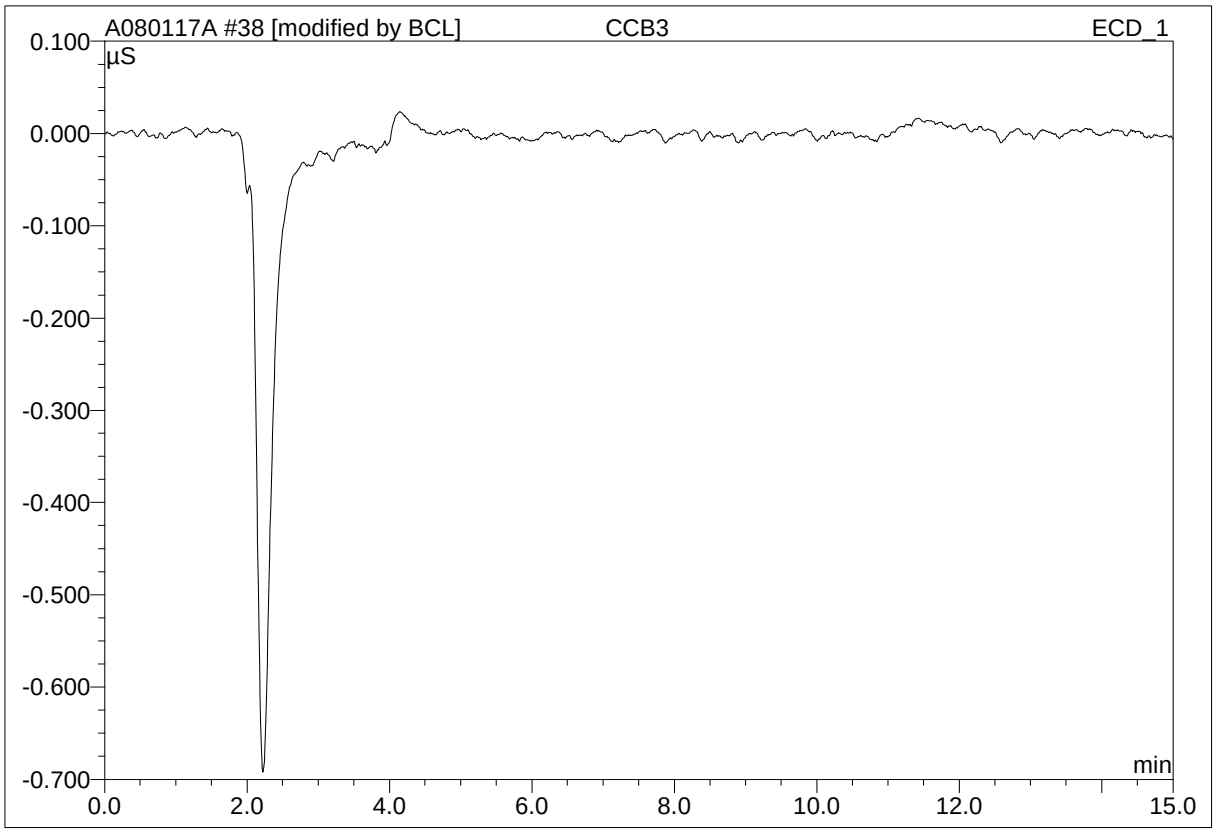
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.15	Chloride	0.026	0.005	100.00	0.162	BMB
Total:			0.026	0.005	100.00	0.162	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 7:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



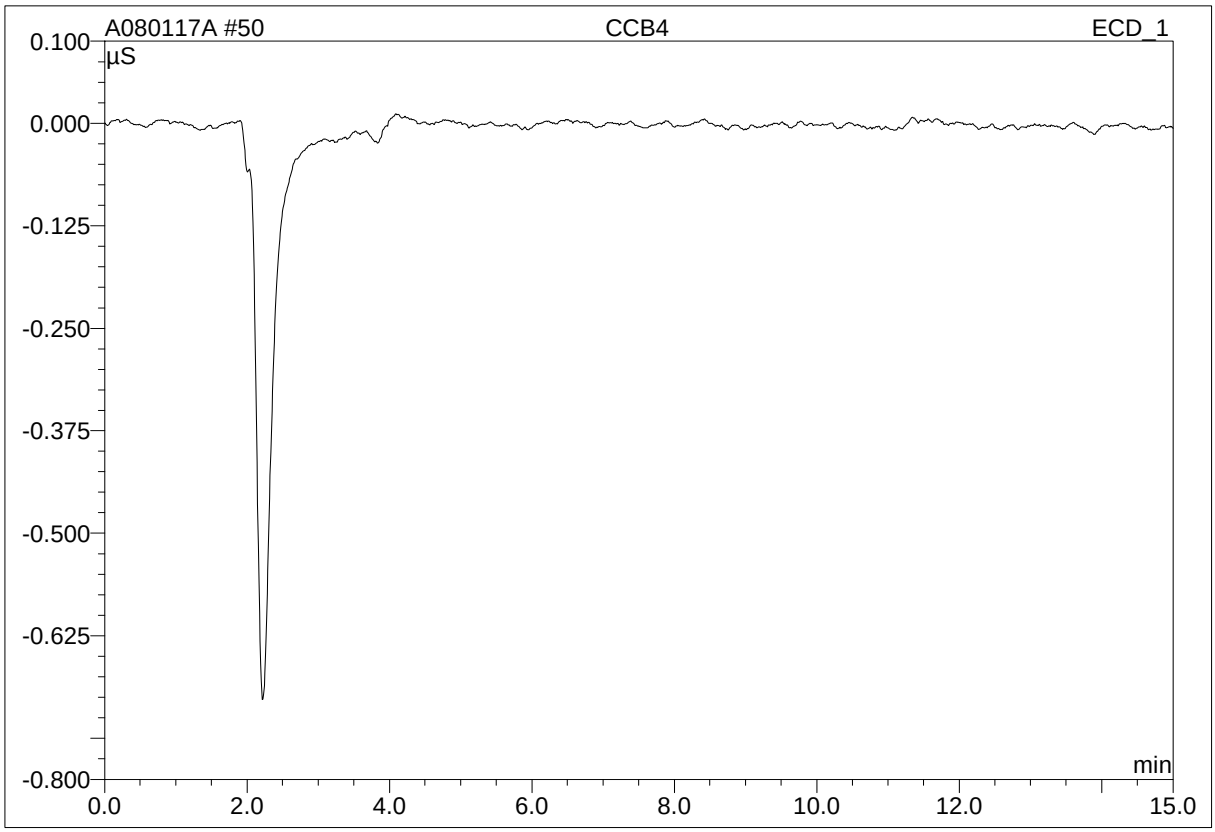
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 08.02.17 12:12 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

50 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 11:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



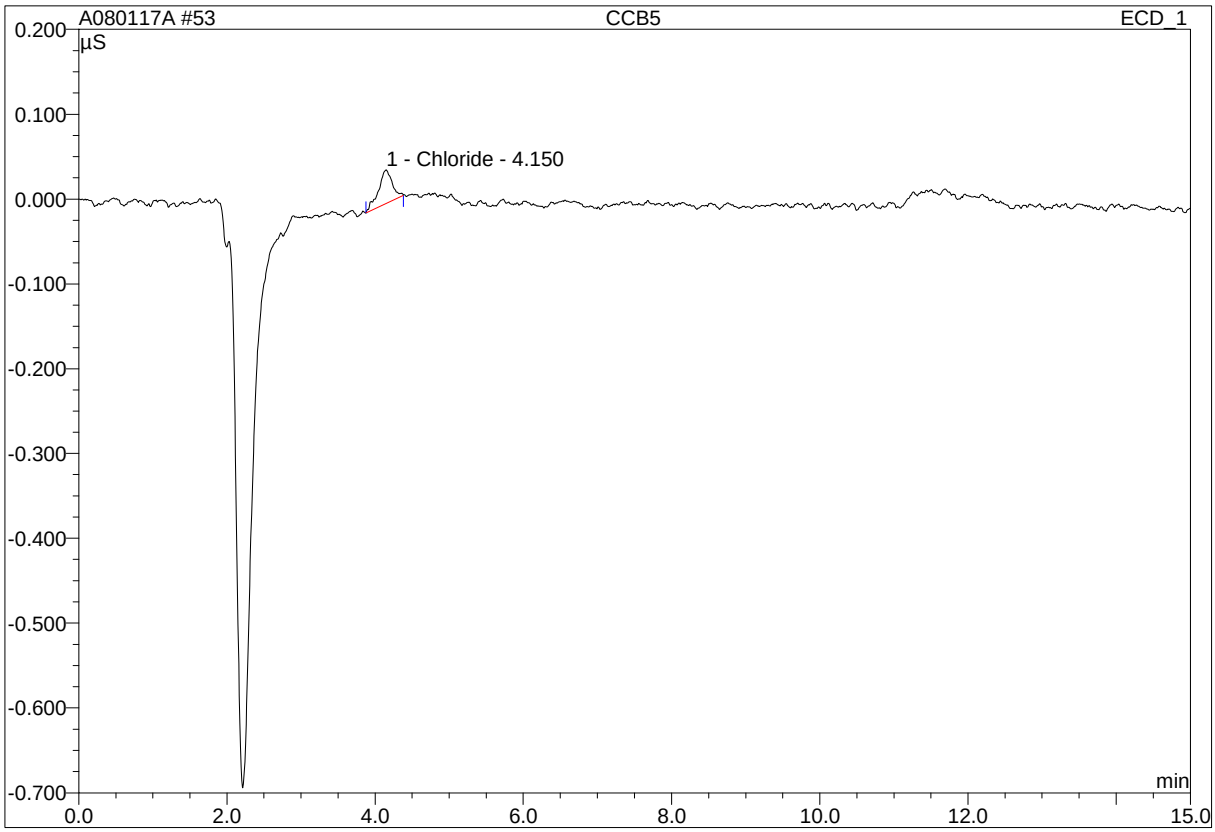
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

53 CCB5

Sample Name:	**CCB5**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 12:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



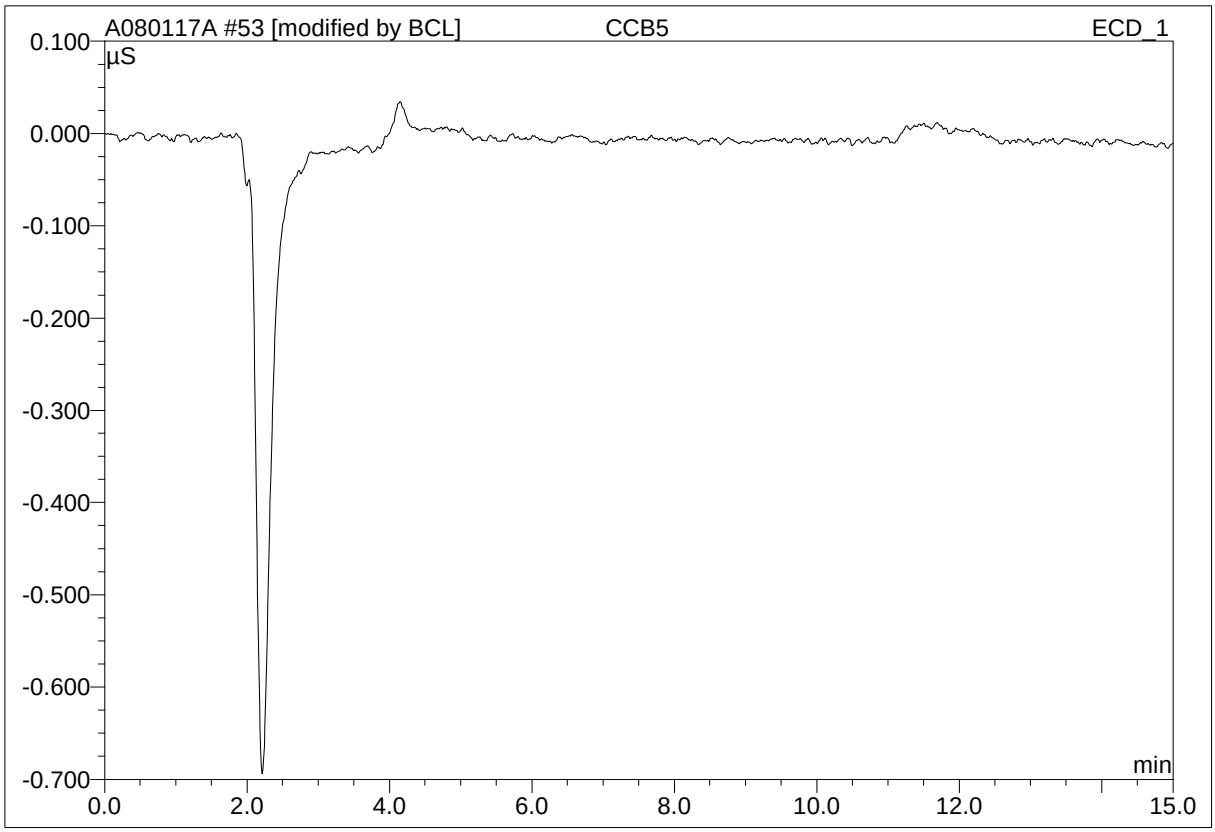
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.15	Chloride	0.040	0.009	100.00	0.179	BMB
Total:			0.040	0.009	100.00	0.179	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

53 CCB5

Sample Name:	**CCB5**	*Injection Volume:*	**25.0**
Vial Number:	**25**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 12:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

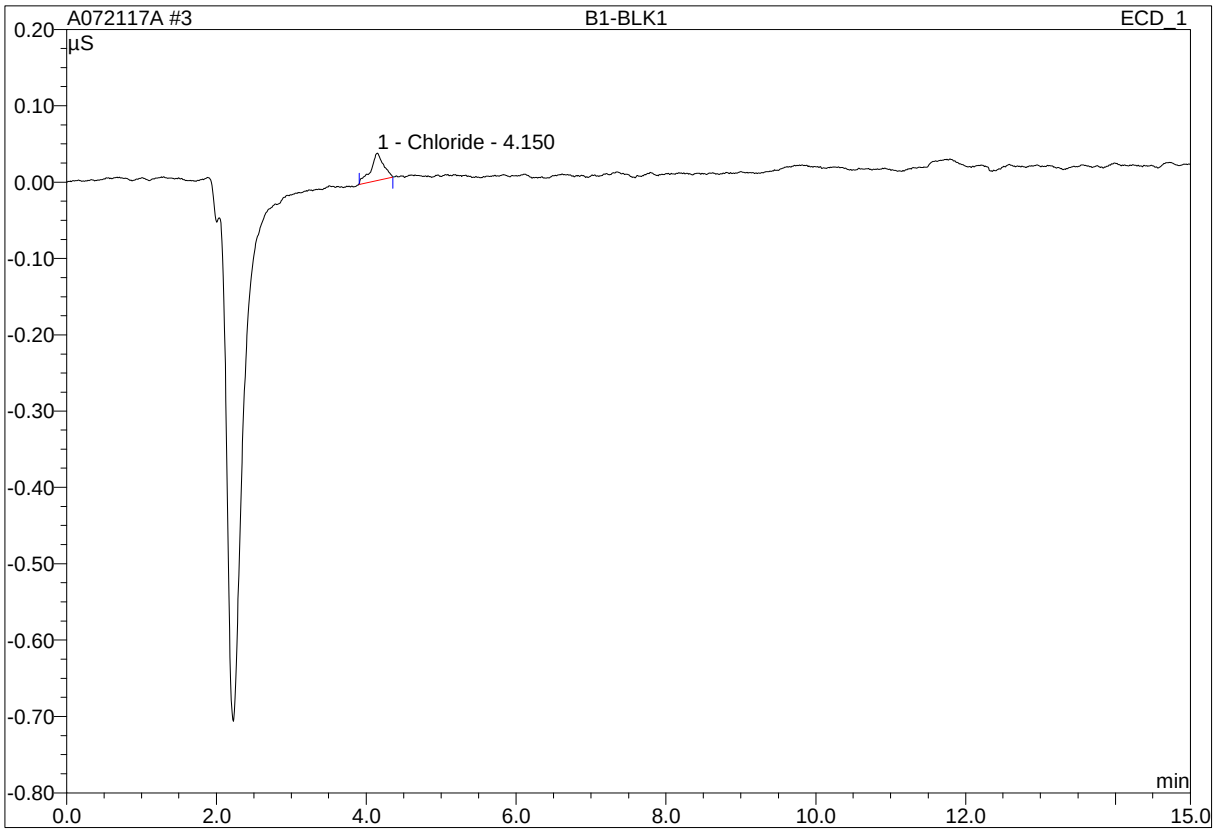
modified on: 08.02.17 12:57 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Method Blank

3 B1-BLK1

Sample Name:	**B1-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



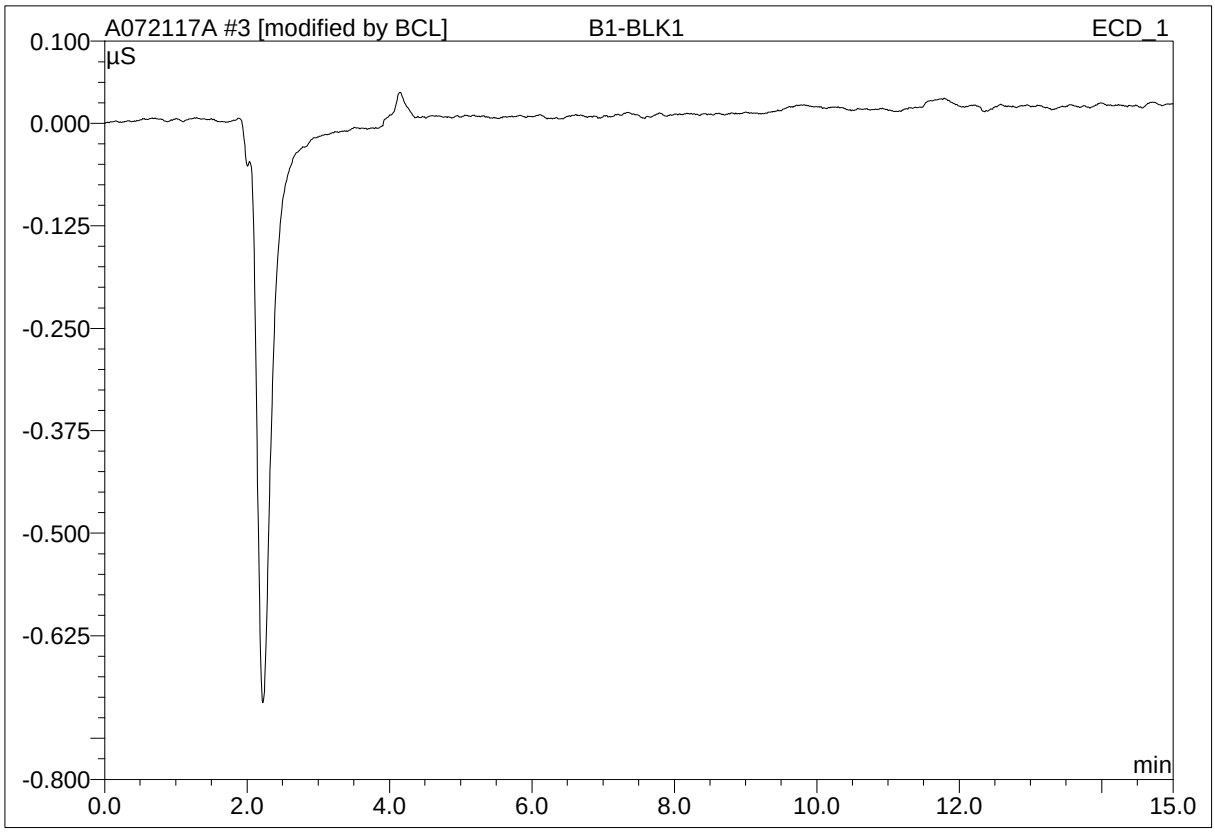
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.15	Chloride	0.036	0.007	100.00	0.165	BMB
Total:			0.036	0.007	100.00	0.165	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 B1-BLK1

Sample Name:	**B1-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



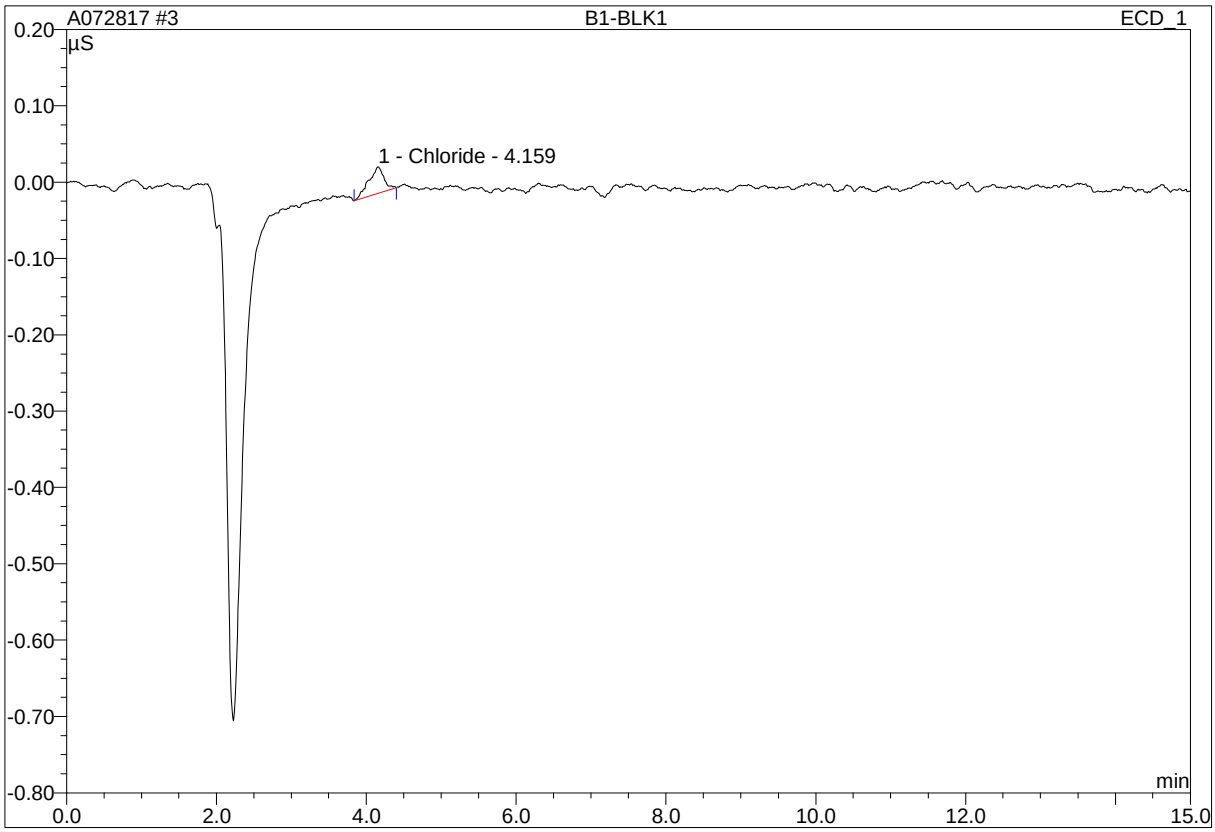
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.26.17 17:53 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 B1-BLK1

Sample Name:	**B1-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 16:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



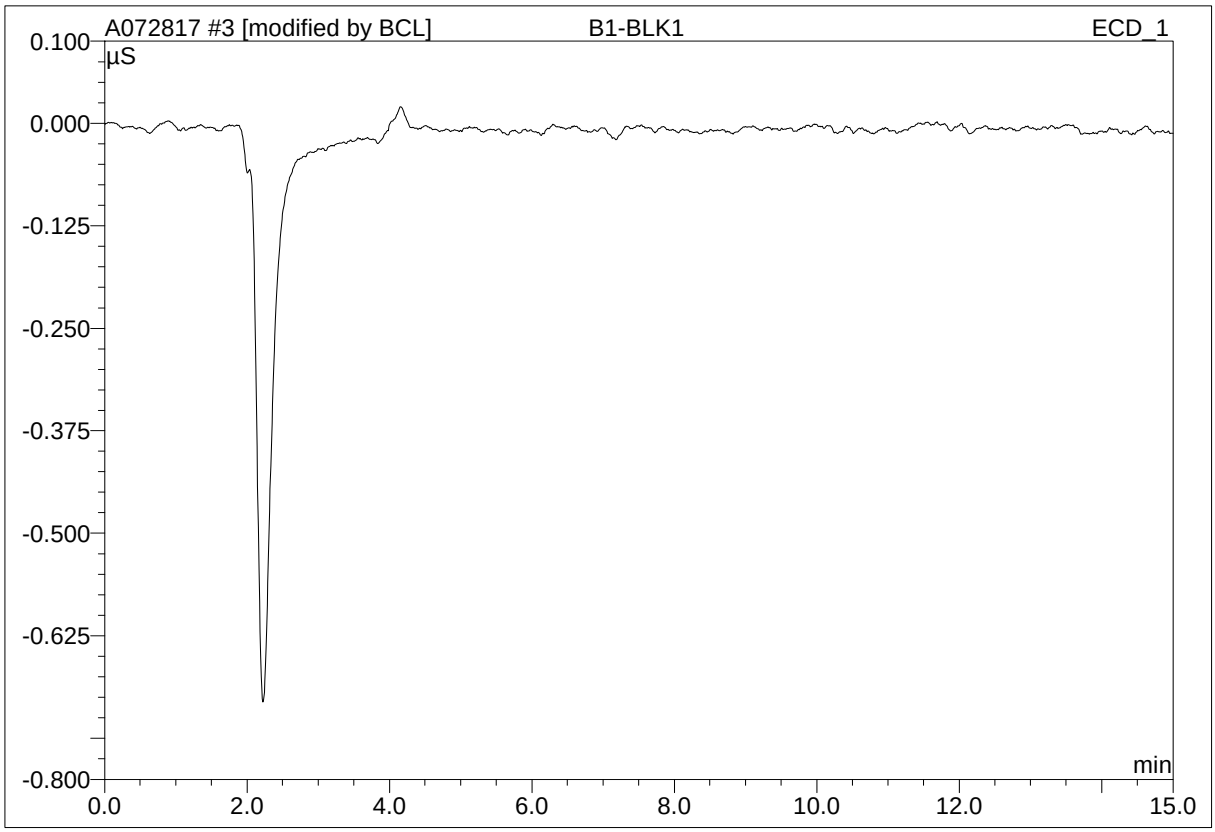
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.16	Chloride	0.035	0.008	100.00	0.169	BMB
Total:			0.035	0.008	100.00	0.169	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

3 B1-BLK1

Sample Name:	**B1-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 16:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



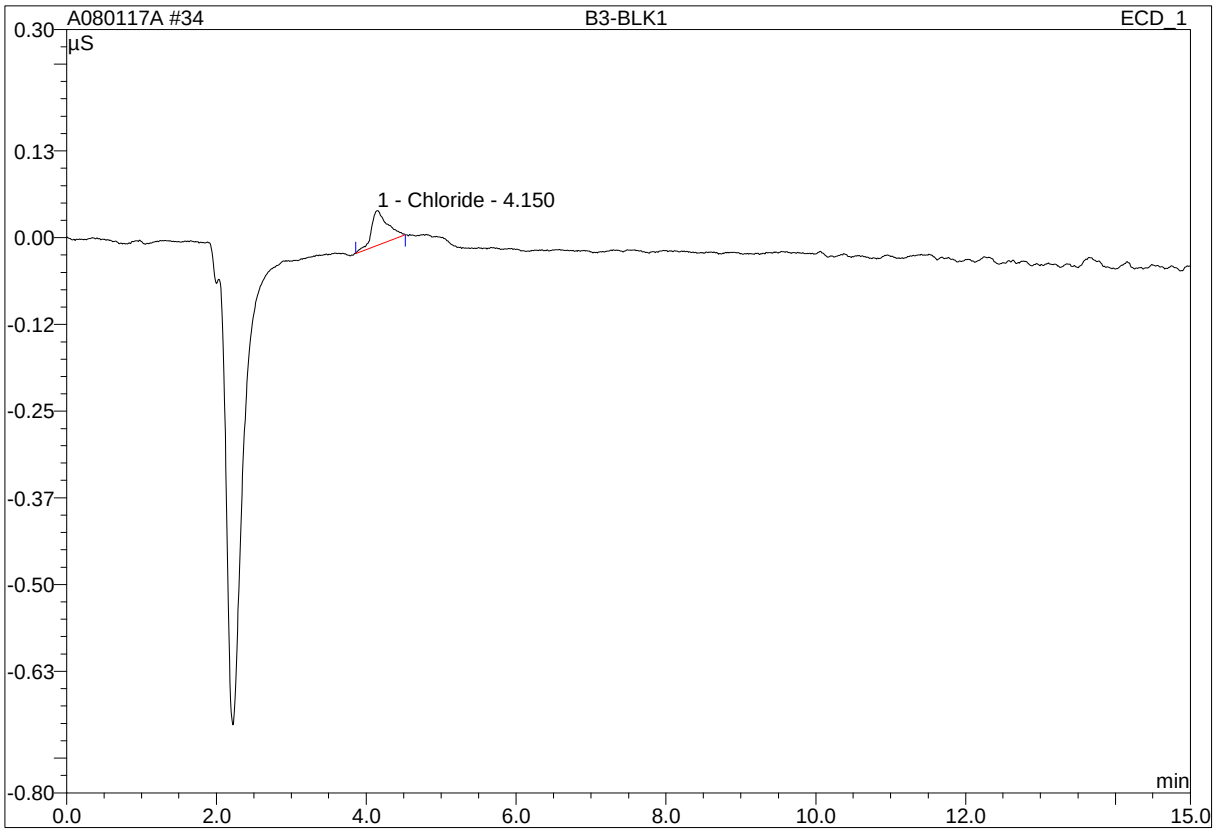
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.28.17 17:25 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

34 B3-BLK1

Sample Name:	**B3-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 6:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



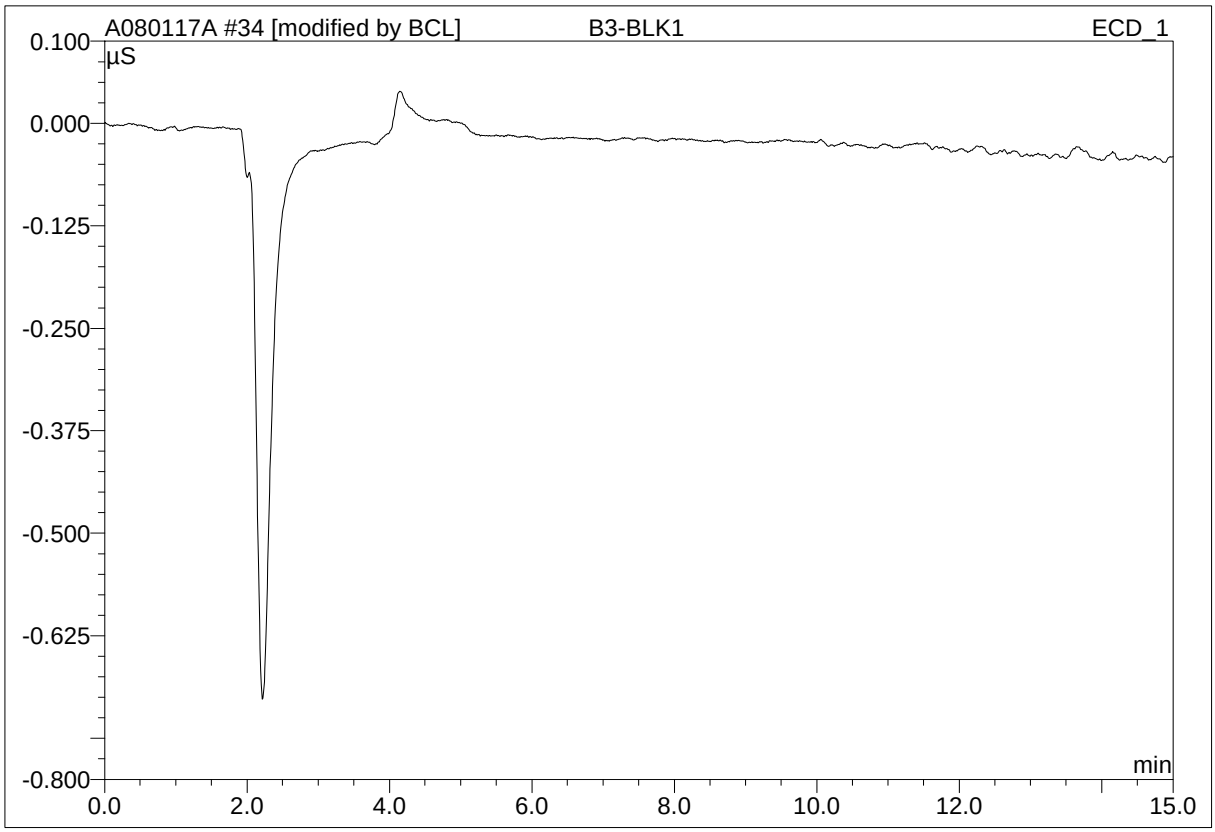
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.15	Chloride	0.050	0.013	100.00	0.200	BMB
Total:			0.050	0.013	100.00	0.200	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

34 B3-BLK1

Sample Name:	**B3-BLK1**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 6:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

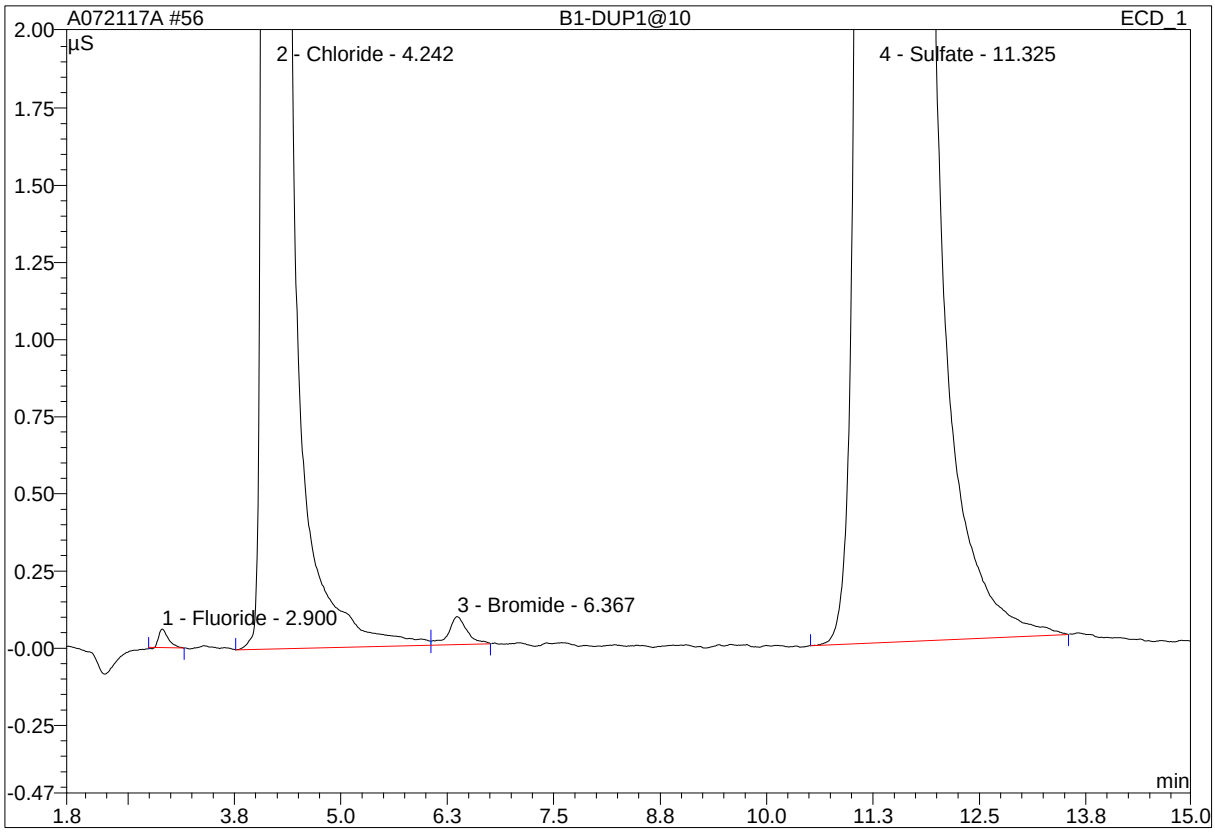
modified on: 08.02.17 07:53 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Duplicate

56 B1-DUP1@10

Sample Name:	**B1-DUP1@10**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 20:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



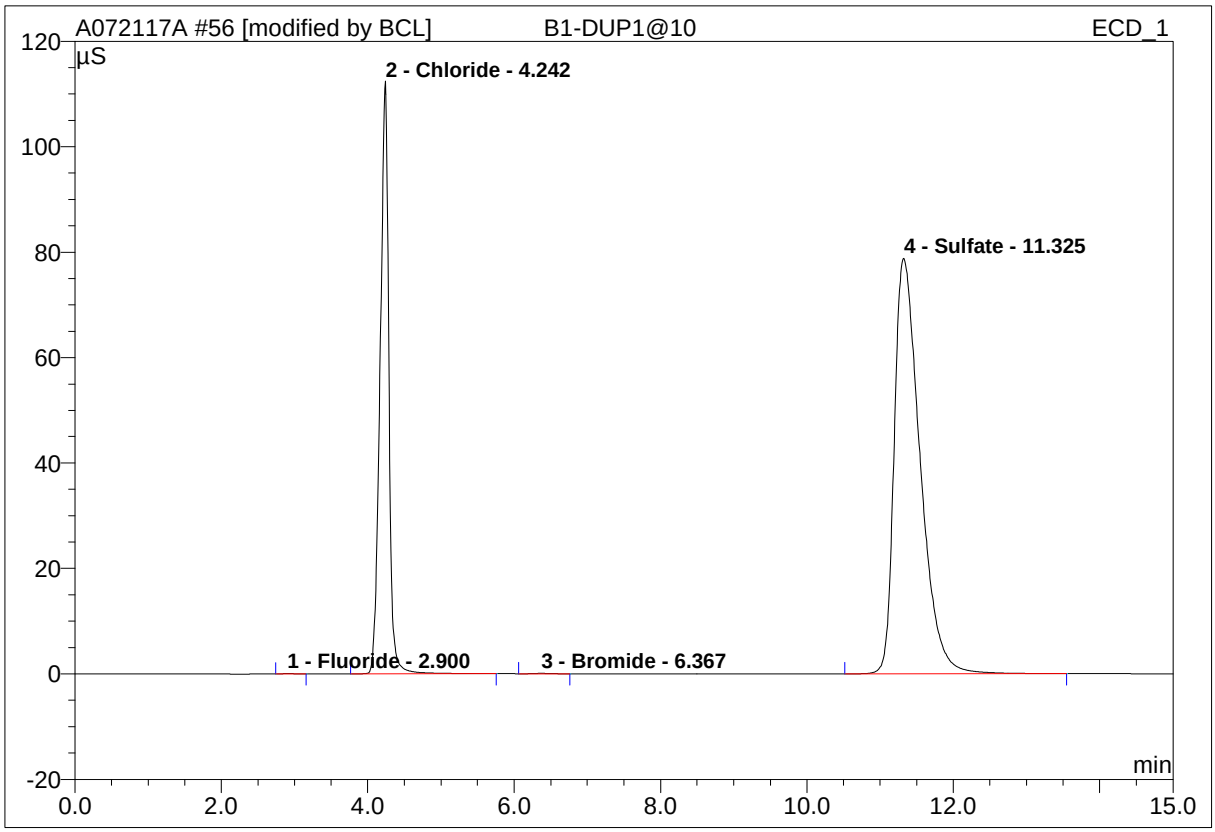
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.060	0.008	0.02	0.045	MB
2	4.24	Chloride	112.428	15.565	32.59	75.563	BM
3	6.37	Bromide	0.091	0.023	0.05	0.389	MB
4	11.33	Sulfate	78.817	32.171	67.35	217.970	BMB
Total:			191.397	47.766	100.00	293.968	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

56 B1-DUP1@10

Sample Name:	**B1-DUP1@10**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 20:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



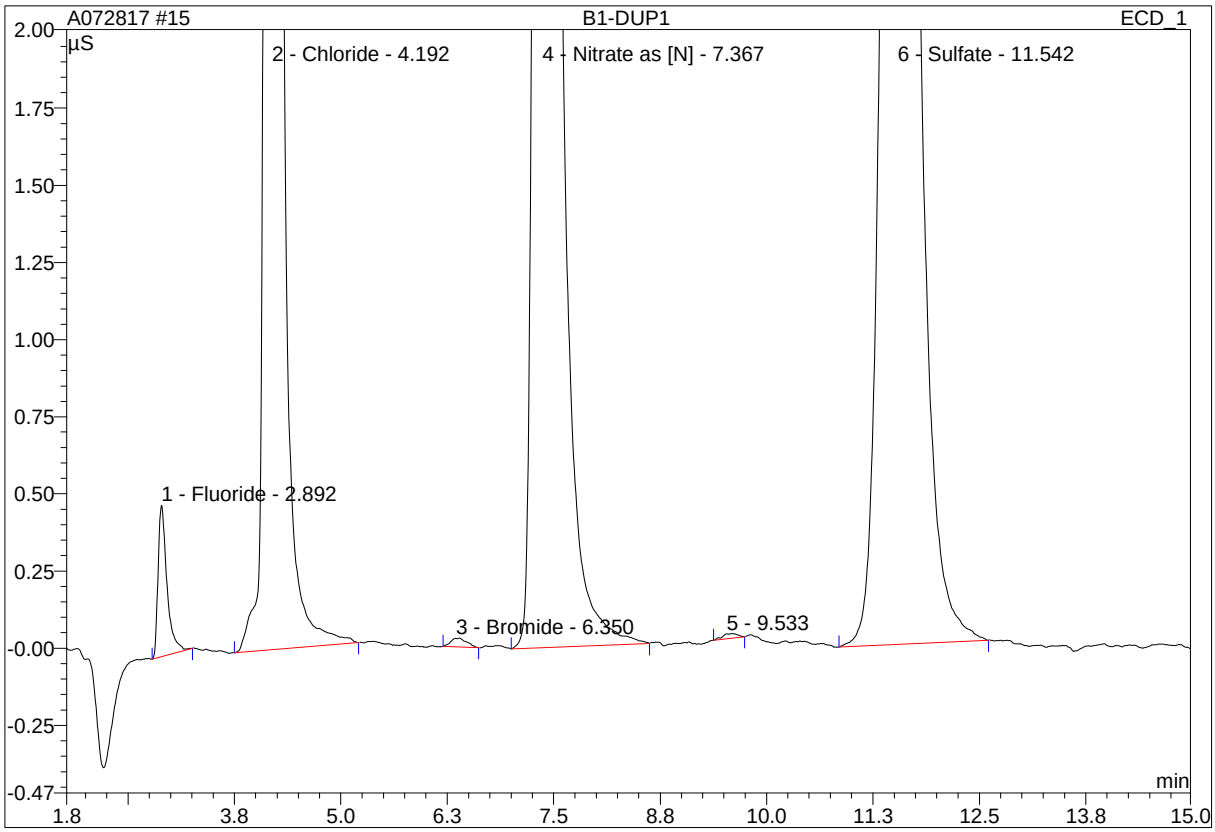
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.90	Fluoride	0.060	0.008	0.02	0.045	MB
2	4.24	Chloride	112.423	15.535	32.55	75.430	BMB*
3	6.37	Bromide	0.084	0.019	0.04	0.318	BMB*
4	11.33	Sulfate	78.817	32.171	67.40	217.970	BMB
Total:			191.384	47.732	100.00	293.764	

modified on: 07.23.17 22:25 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

15 B1-DUP1

Sample Name:	**B1-DUP1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 19:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



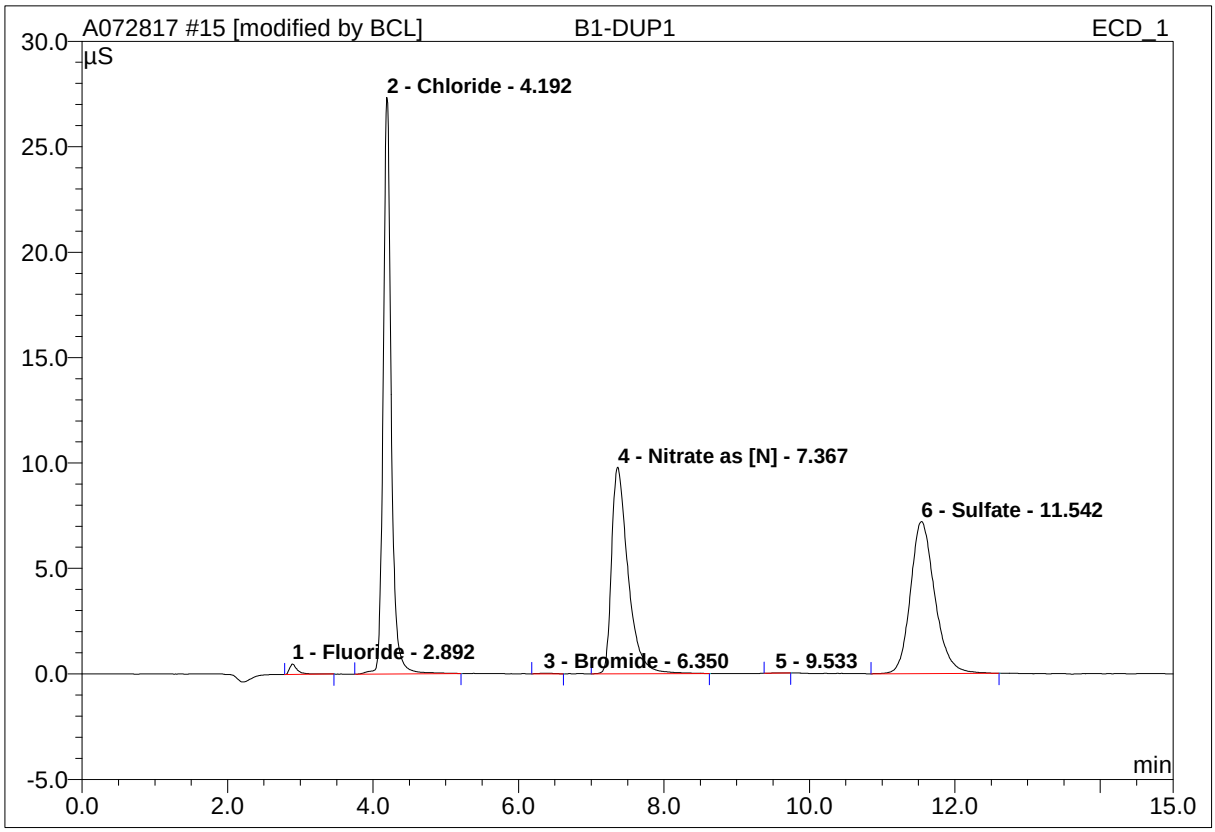
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.491	0.060	0.67	0.273	BMB
2	4.19	Chloride	27.336	3.474	38.97	17.889	BMB
3	6.35	Bromide	0.027	0.006	0.07	0.110	BMB
4	7.37	Nitrate as [N]	9.793	2.579	28.92	6.673	BMB
5	9.53	n.a.	0.016	0.003	0.03	n.a.	BMB
6	11.54	Sulfate	7.213	2.794	31.34	21.366	BMB
Total:			44.876	8.916	100.00	46.311	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

15 B1-DUP1

Sample Name:	**B1-DUP1**	*Injection Volume:*	**25.0**
Vial Number:	**16**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 19:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



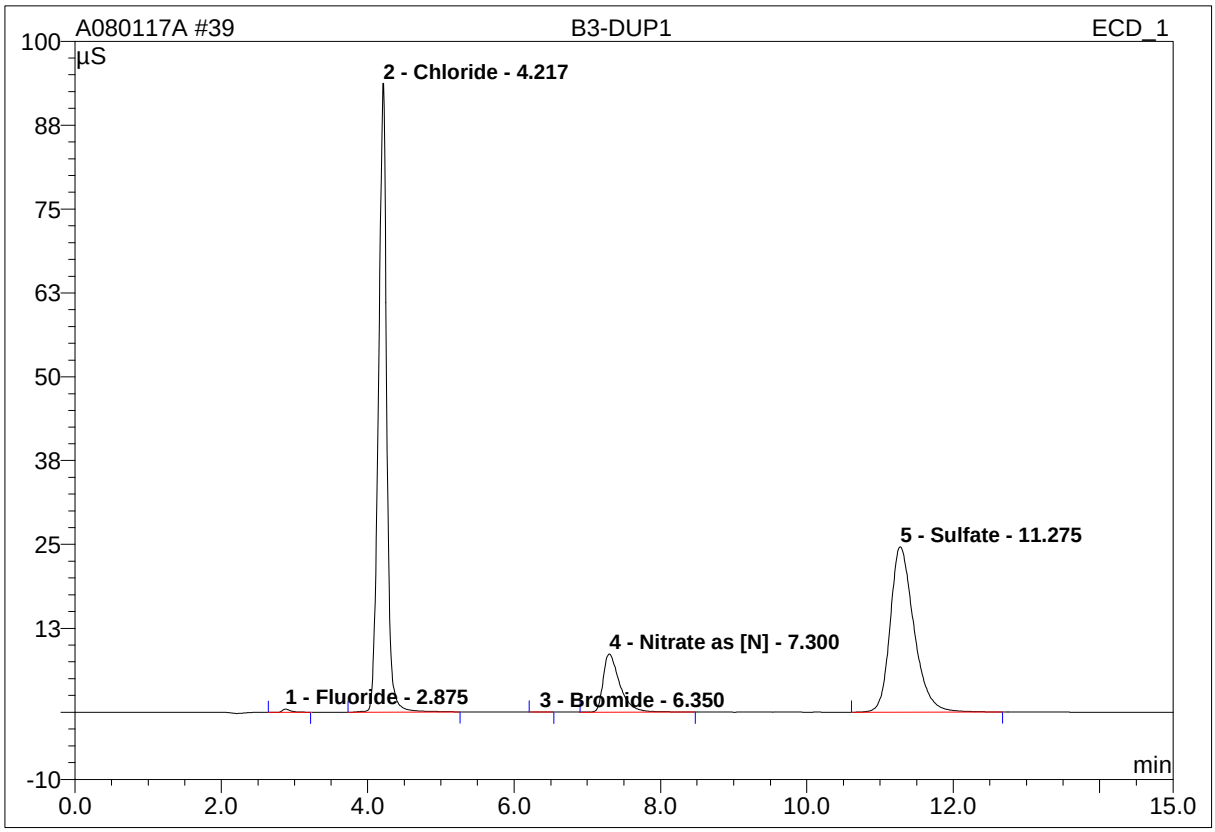
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	0.495	0.065	0.73	0.298	BMB*
2	4.19	Chloride	27.336	3.474	38.94	17.889	BMB
3	6.35	Bromide	0.028	0.006	0.07	0.112	BMB*
4	7.37	Nitrate as [N]	9.793	2.579	28.90	6.673	BMB
5	9.53	n.a.	0.016	0.003	0.03	n.a.	BMB
6	11.54	Sulfate	7.213	2.794	31.32	21.366	BMB
Total:			44.880	8.921	100.00	46.338	

modified on: 07.29.17 10:09 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

39 B3-DUP1

Sample Name:	**B3-DUP1**	*Injection Volume:*	**25.0**
Vial Number:	**22**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 8:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	0.467	0.055	0.23	0.258	MB
2	4.22	Chloride	93.735	12.289	51.49	60.788	BMB
3	6.35	Bromide	0.023	0.004	0.02	0.079	BMB
4	7.30	Nitrate as [N]	8.669	2.269	9.51	5.990	BMB
5	11.28	Sulfate	24.623	9.249	38.75	68.835	BMB
Total:			127.517	23.867	100.00	135.951	

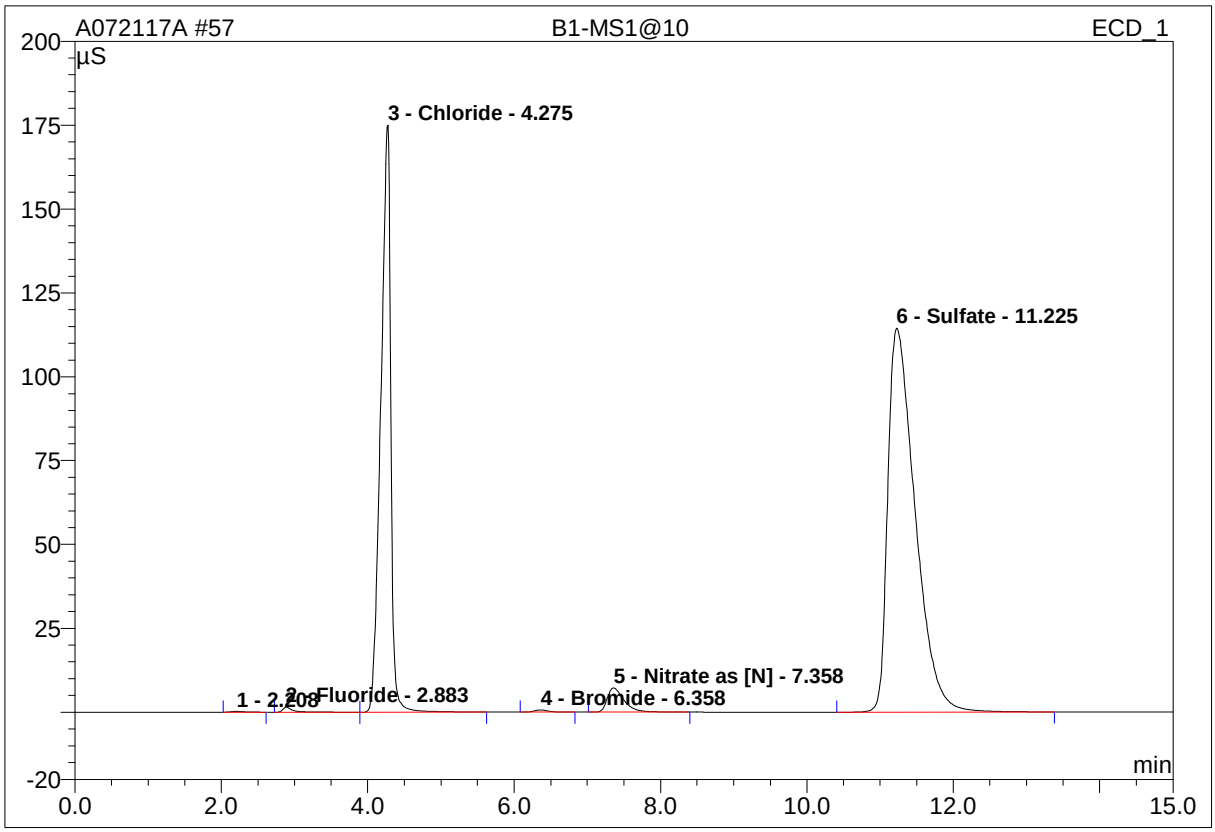
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Matrix Spike

57 B1-MS1@10

Sample Name:	**B1-MS1@10**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 20:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



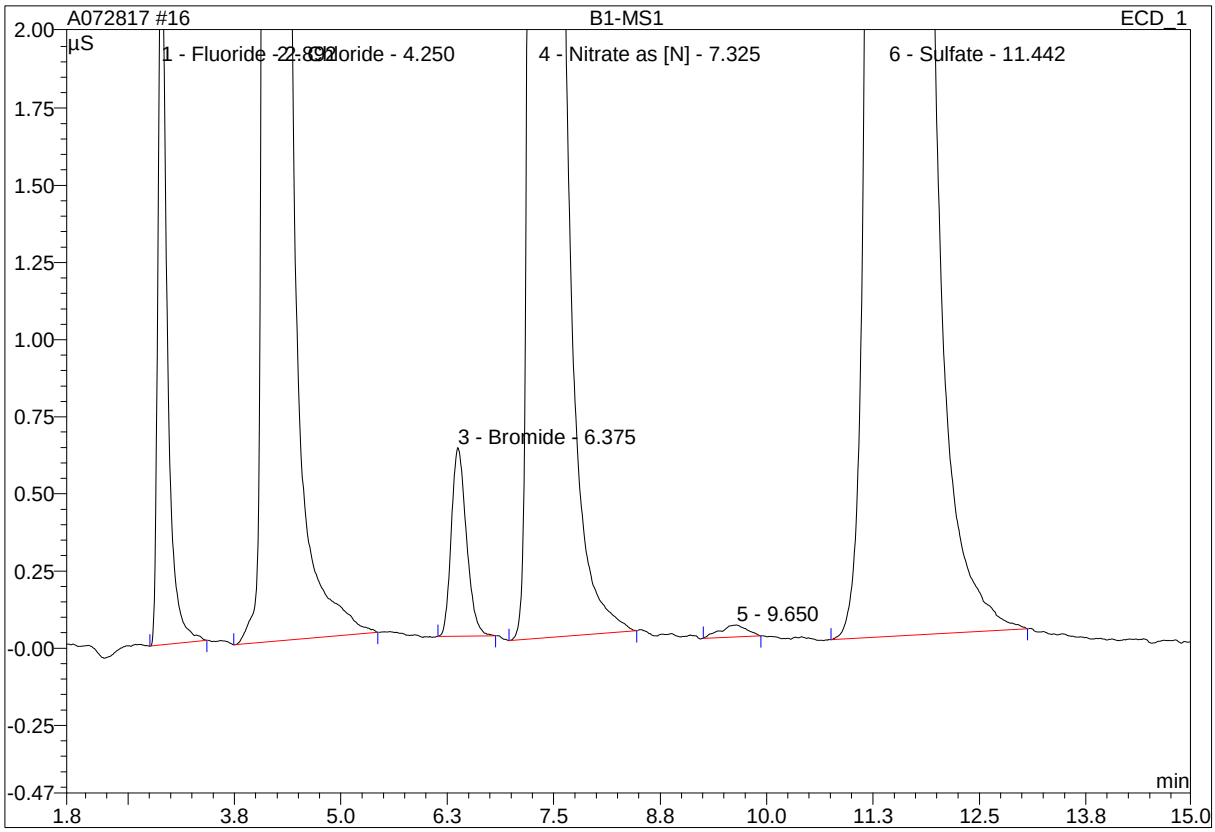
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.215	0.046	0.06	n.a.	BMB
2	2.88	Fluoride	1.499	0.254	0.32	1.120	BMB
3	4.28	Chloride	174.975	27.534	34.69	126.648	bMB
4	6.36	Bromide	0.657	0.142	0.18	2.315	BMB
5	7.36	Nitrate as [N]	7.238	1.917	2.41	5.066	BMB
6	11.23	Sulfate	114.442	49.477	62.34	316.216	BMB
Total:			299.025	79.369	100.00	451.366	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

16 B1-MS1

Sample Name:	**B1-MS1**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 20:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



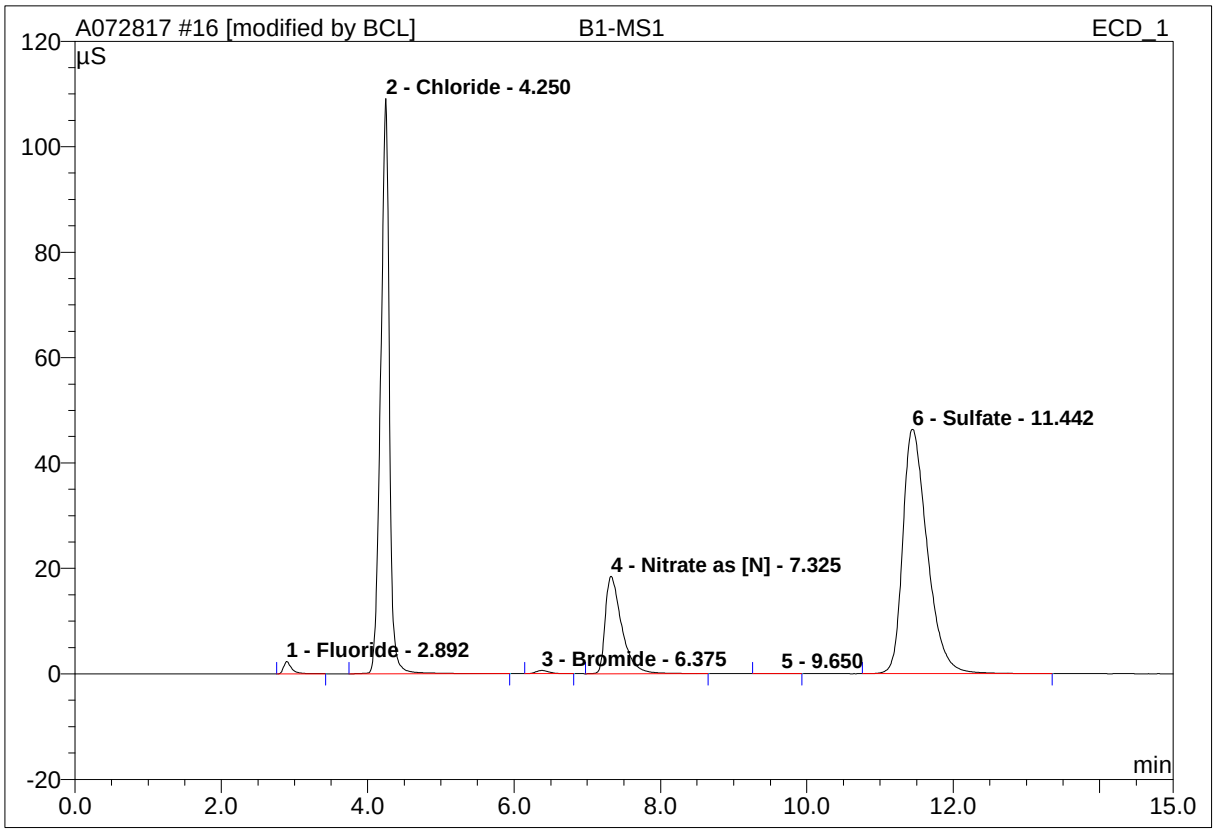
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	2.321	0.294	0.77	1.319	BMB
2	4.25	Chloride	109.058	14.917	39.16	71.955	BMB
3	6.38	Bromide	0.611	0.125	0.33	2.023	BMB
4	7.33	Nitrate as [N]	18.461	4.823	12.66	11.736	BMB
5	9.65	n.a.	0.038	0.014	0.04	n.a.	BMB
6	11.44	Sulfate	46.378	17.922	47.04	126.847	BMB
Total:			176.868	38.096	100.00	213.880	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

16 B1-MS1

Sample Name:	**B1-MS1**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 20:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



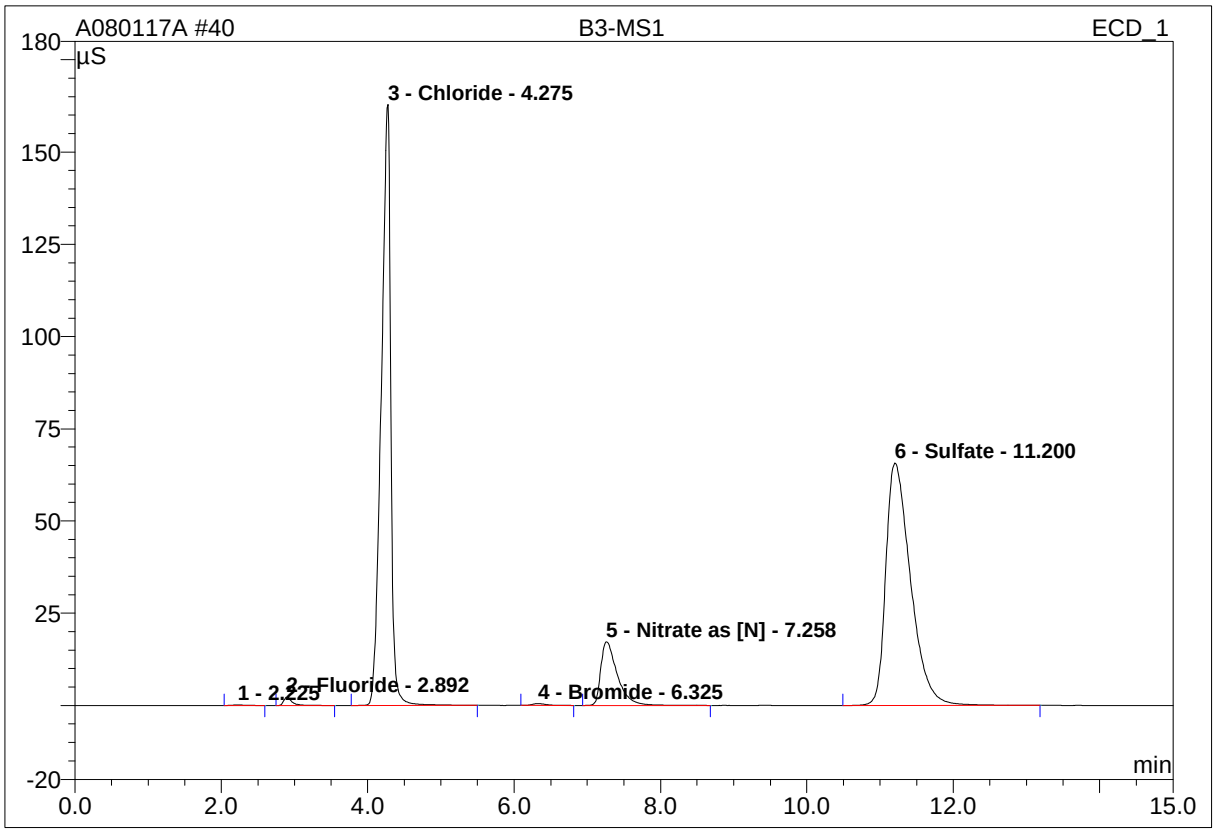
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	2.321	0.294	0.77	1.319	BMB
2	4.25	Chloride	109.064	14.941	39.15	72.060	BMB*
3	6.38	Bromide	0.611	0.125	0.33	2.023	BMB
4	7.33	Nitrate as [N]	18.465	4.836	12.67	11.764	BMB*
5	9.65	n.a.	0.038	0.014	0.04	n.a.	BMB
6	11.44	Sulfate	46.384	17.948	47.04	127.022	BMB*
Total:			176.883	38.159	100.00	214.188	

modified on: 07.29.17 10:10 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

40 B3-MS1

Sample Name:	**B3-MS1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 8:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.23	n.a.	0.137	0.032	0.06	n.a.	BMB
2	2.89	Fluoride	2.275	0.304	0.55	1.380	BMB
3	4.28	Chloride	162.849	24.349	44.24	113.553	BMB
4	6.33	Bromide	0.501	0.107	0.19	1.756	BMB
5	7.26	Nitrate as [N]	17.248	4.511	8.19	11.156	BMB
6	11.20	Sulfate	65.641	25.739	46.76	178.048	BMB
Total:			248.651	55.041	100.00	305.893	

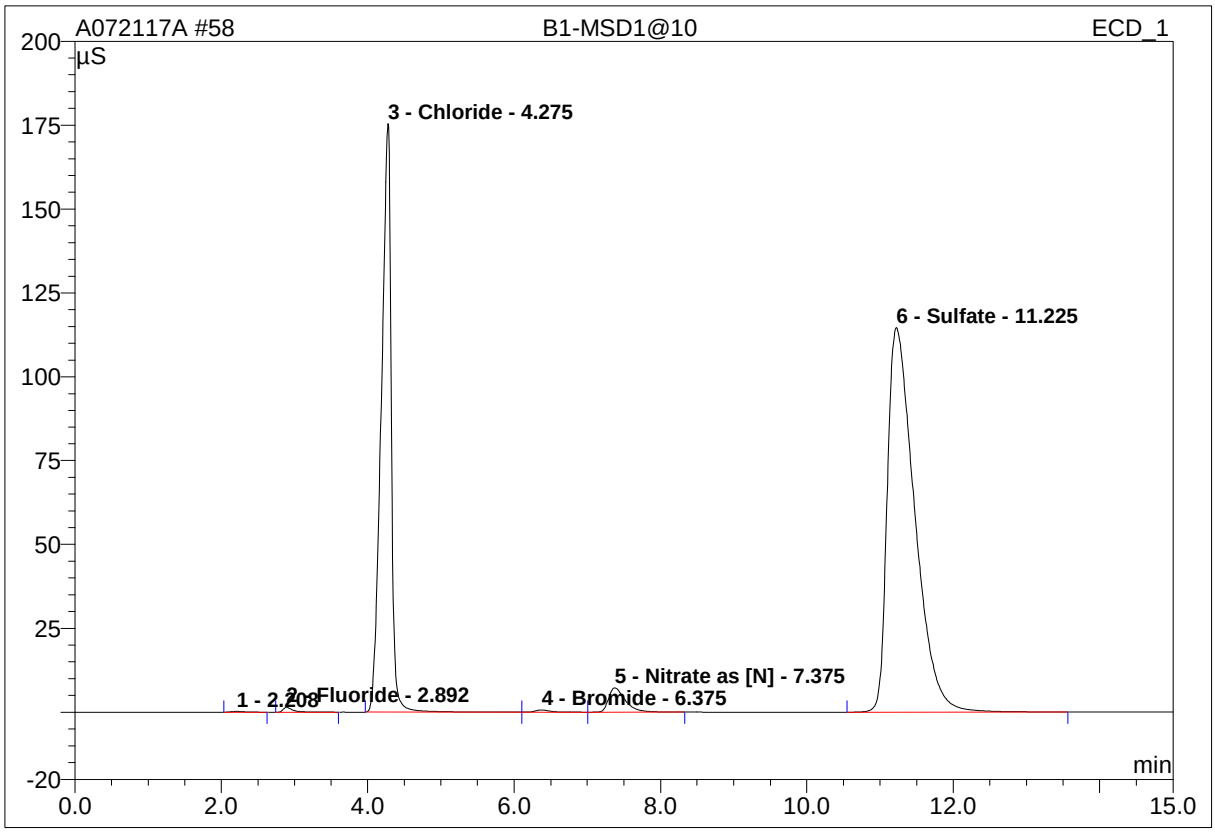
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Matrix Spike Duplicate

58 B1-MSD1@10

Sample Name:	**B1-MSD1@10**	*Injection Volume:*	**25.0**
Vial Number:	**26**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 20:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



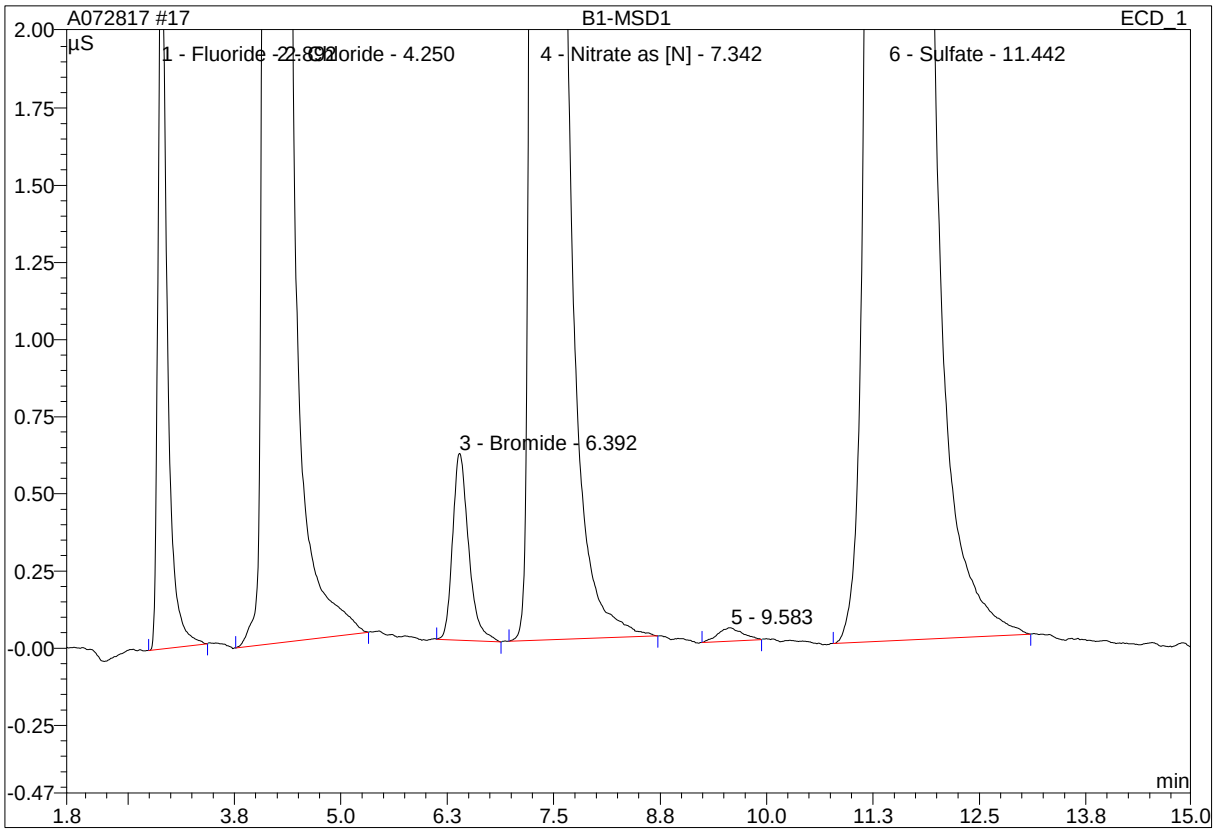
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.218	0.047	0.06	n.a.	BMB
2	2.89	Fluoride	1.518	0.230	0.29	1.017	BM
3	4.28	Chloride	175.399	27.603	34.69	126.928	BM
4	6.38	Bromide	0.666	0.150	0.19	2.446	MB
5	7.38	Nitrate as [N]	7.226	1.917	2.41	5.067	bMB
6	11.23	Sulfate	114.655	49.617	62.36	316.974	BMB
Total:			299.682	79.564	100.00	452.430	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

17 B1-MSD1

Sample Name:	**B1-MSD1**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 20:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



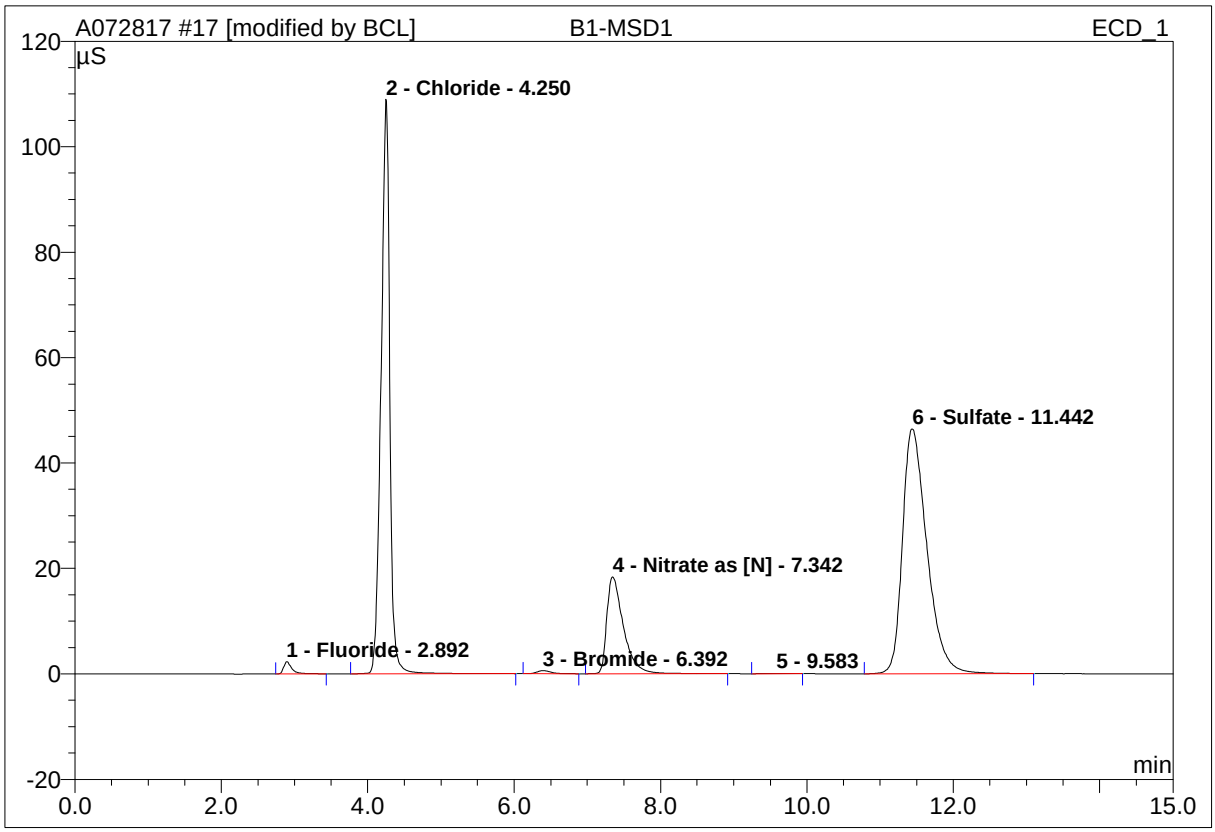
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	2.320	0.295	0.77	1.322	BMB
2	4.25	Chloride	108.965	14.934	39.12	72.030	BMB
3	6.39	Bromide	0.605	0.132	0.35	2.127	BMB
4	7.34	Nitrate as [N]	18.377	4.838	12.67	11.767	BMB
5	9.58	n.a.	0.043	0.015	0.04	n.a.	BMB
6	11.44	Sulfate	46.431	17.965	47.06	127.132	BMB
Total:			176.742	38.179	100.00	214.378	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

17 B1-MSD1

Sample Name:	**B1-MSD1**	*Injection Volume:*	**25.0**
Vial Number:	**17**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 20:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



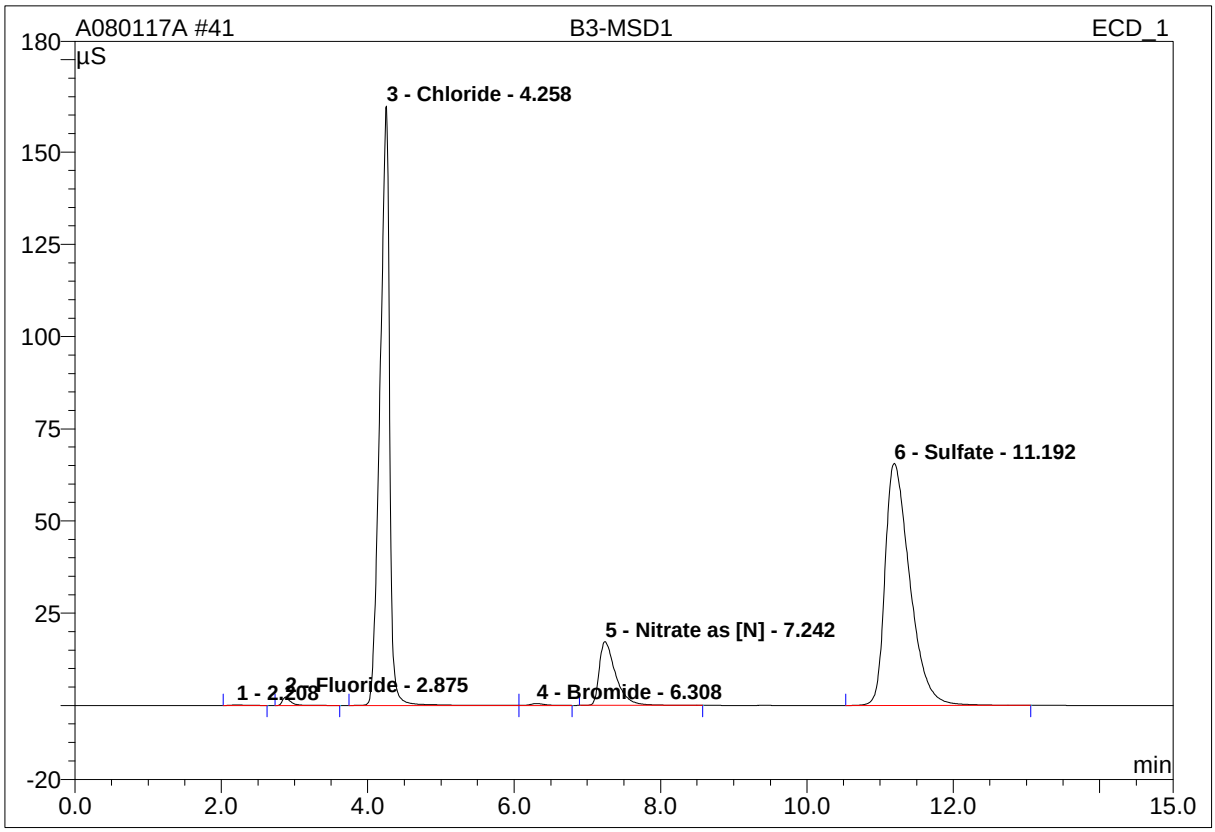
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	2.320	0.295	0.77	1.322	BMB
2	4.25	Chloride	108.976	14.973	39.17	72.203	BMB*
3	6.39	Bromide	0.605	0.132	0.34	2.127	BMB
4	7.34	Nitrate as [N]	18.380	4.848	12.68	11.790	BMB*
5	9.58	n.a.	0.043	0.015	0.04	n.a.	BMB
6	11.44	Sulfate	46.431	17.965	46.99	127.132	BMB
Total:			176.755	38.228	100.00	214.574	

modified on: 07.29.17 10:10 By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

41 B3-MSD1

Sample Name:	**B3-MSD1**	*Injection Volume:*	**25.0**
Vial Number:	**23**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 8:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.21	n.a.	0.142	0.036	0.07	n.a.	BMB
2	2.88	Fluoride	2.276	0.304	0.55	1.384	BMB
3	4.26	Chloride	162.453	24.379	44.32	113.677	BM
4	6.31	Bromide	0.507	0.114	0.21	1.869	MB
5	7.24	Nitrate as [N]	17.291	4.492	8.17	11.116	BMB
6	11.19	Sulfate	65.563	25.680	46.69	177.683	BMB
Total:			248.233	55.005	100.00	305.728	

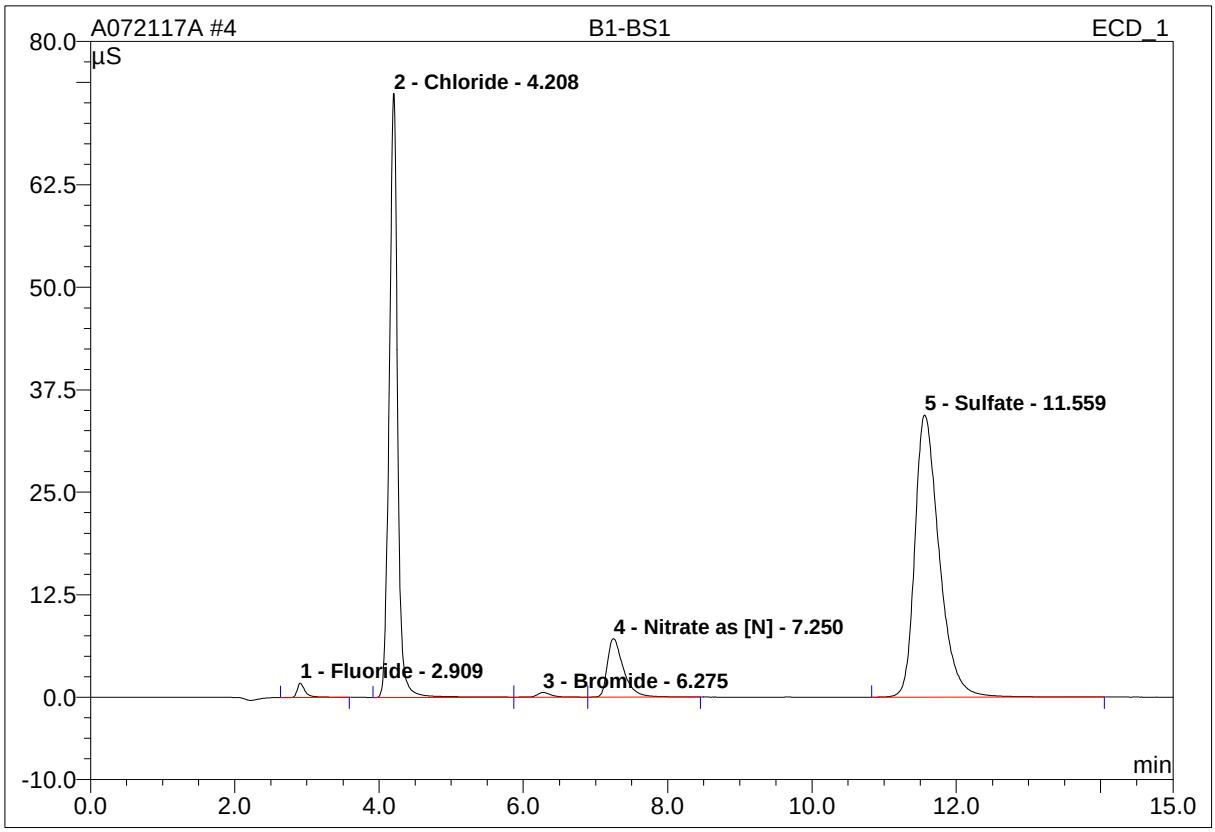
modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Lab Control Sample

4 B1-BS1

Sample Name:	**B1-BS1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 2:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



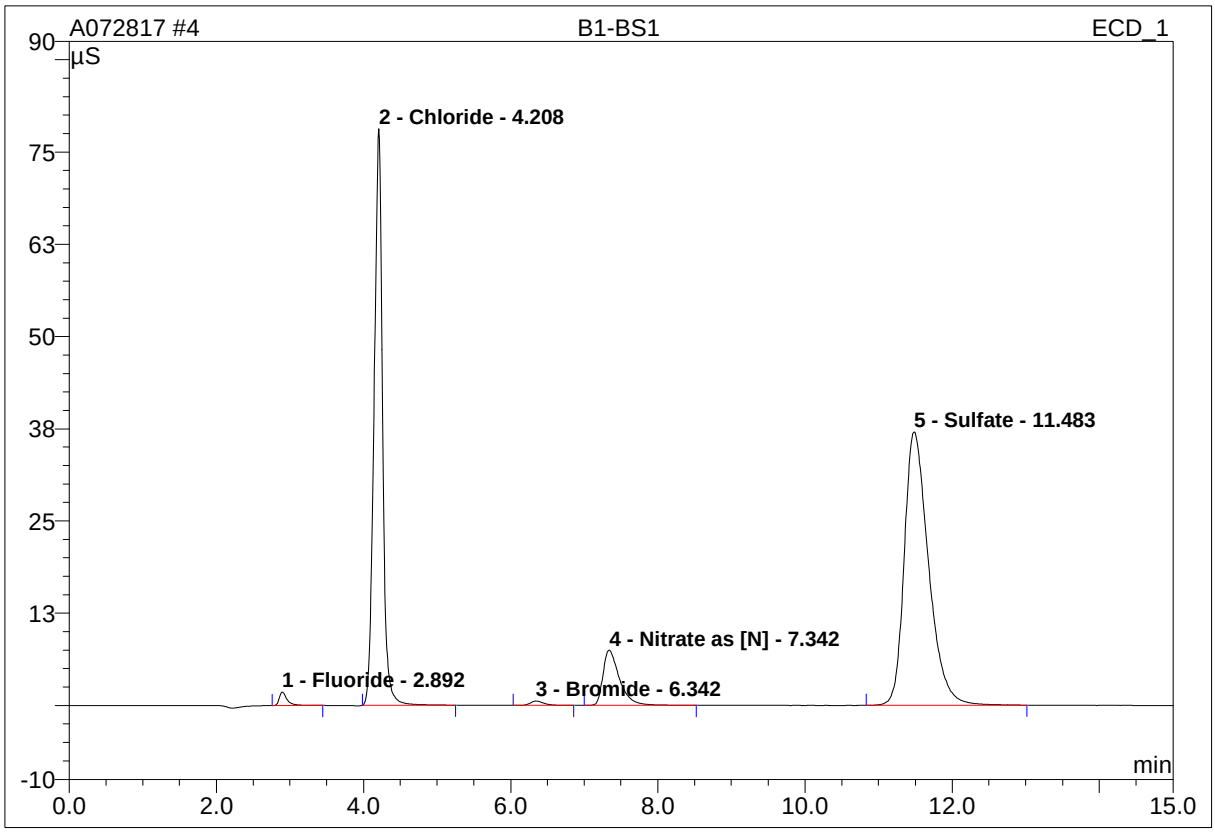
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.91	Fluoride	1.754	0.227	0.89	1.006	BMB
2	4.21	Chloride	73.638	9.894	38.68	49.458	BM
3	6.28	Bromide	0.593	0.147	0.57	2.400	M
4	7.25	Nitrate as [N]	7.144	1.860	7.27	4.923	MB
5	11.56	Sulfate	34.421	13.452	52.59	98.401	BMB
Total:			117.549	25.580	100.00	156.188	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

4 B1-BS1

Sample Name:	**B1-BS1**	*Injection Volume:*	**25.0**
Vial Number:	**15**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/28/2017 16:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



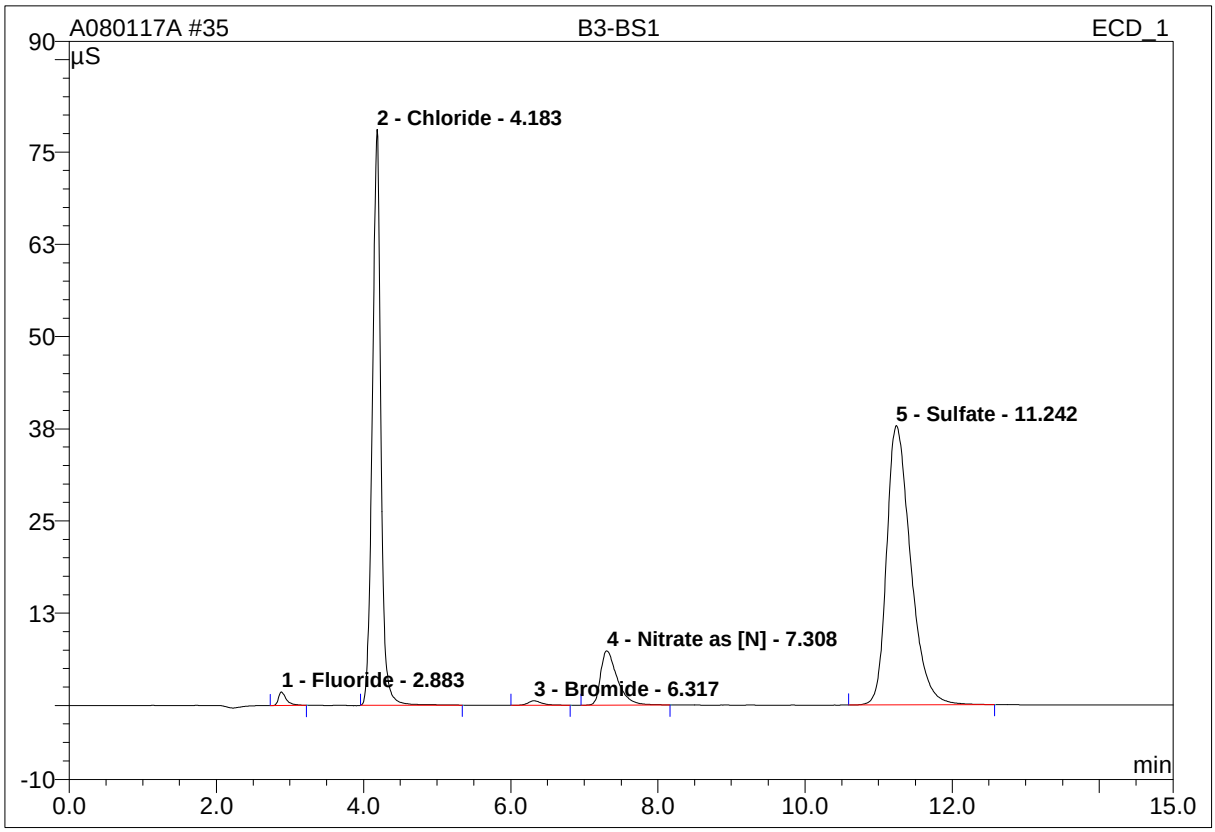
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.89	Fluoride	1.833	0.231	0.86	1.040	BMB
2	4.21	Chloride	78.102	10.397	38.71	51.327	BMB
3	6.34	Bromide	0.593	0.129	0.48	2.076	BMB
4	7.34	Nitrate as [N]	7.459	1.944	7.24	5.130	BMB
5	11.48	Sulfate	37.018	14.160	52.72	101.890	BMB
Total:			125.005	26.860	100.00	161.464	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

35 B3-BS1

Sample Name:	**B3-BS1**	*Injection Volume:*	**25.0**
Vial Number:	**21**	*Channel:*	**IC1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC1 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**8/2/2017 7:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.00**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.88	Fluoride	1.845	0.230	0.85	1.050	BMB
2	4.18	Chloride	78.034	10.394	38.49	51.948	BMB
3	6.32	Bromide	0.602	0.132	0.49	2.156	BMB
4	7.31	Nitrate as [N]	7.365	1.933	7.16	5.160	BMB
5	11.24	Sulfate	37.862	14.311	53.01	103.939	BMB
Total:			125.709	27.000	100.00	164.254	

modified on: n.a. By: OLH/EMW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on left or right side of peak.
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1814

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-01 F	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-01 F	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-01 F	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-02 F	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-02 F	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-02 F	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-04 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-04 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-04 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-05 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-05 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-05 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-06 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-06 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-06 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-07 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-07 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-07 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-08 S	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-08 S	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-08 S	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-08RE1 S	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-08RE1 S	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-08RE1 S	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-08RE2 S	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1814

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-08RE2 S	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-08RE2 S	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-09 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-09 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-09 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-10 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-10 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-10 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-10RE1 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
1720018-10RE1 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-10RE1 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-11 H	i300.0w Chloride	7/22/2017 1:00AM	EMW	20	20					
1720018-11 H	i300.0w Nitrate as N	7/22/2017 1:00AM	EMW	20	20					
1720018-11 H	i300.0w Sulfate	7/22/2017 1:00AM	EMW	20	20					
B[G1814-BLK1	QC	7/22/2017 1:00AM	EMW	20	20					
B[G1814-BS1	QC	7/22/2017 1:00AM	EMW	20	20	7D25031		200		
B[G1814-DUP1	QC	7/22/2017 1:00AM	EMW	20	20		1720018-08RE2			
B[G1814-MS1	QC	7/22/2017 1:00AM	EMW	19.8	20	7D25031	1720018-08RE2	2000		
B[G1814-MSD1	QC	7/22/2017 1:00AM	EMW	19.8	20	7D25031	1720018-08RE2	2000		

Spike Mixes	Description	Solvent	Prepared	Expires
7D25031	300.0 HSSS-SPIKE	DI WATER	4/25/2017 by Emily Wells	10/25/2017

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B|G2477

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-02RE1 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720018-02RE1 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720018-02RE1 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720018-09RE1 G	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720018-09RE1 G	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720018-09RE1 G	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE2 J	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE2 J	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE2 J	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE3 J	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE3 J	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE3 J	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE4 J	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE4 J	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720029-05RE4 J	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720725-01 A	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720736-02 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720736-02 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720736-02 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720736-02RE1 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720736-02RE1 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720736-02RE1 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720736-03 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720736-03 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720736-03 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720736-04 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720736-04 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720736-04 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720743-01 A	i300.0w Nitrate as NO3	7/28/2017 3:00PM	EMW	20	20					
1720751-01 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720751-01 D	i300.0w Fluoride	7/28/2017 3:00PM	EMW	20	20					
1720751-01 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720751-01 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720751-01RE1 D	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720751-01RE1 D	i300.0w Sulfate	7/28/2017 3:00PM	EMW	20	20					
1720751-01RE1 D	i300.0w Fluoride	7/28/2017 3:00PM	EMW	20	20					
1720751-01RE1 D	i300.0w Chloride	7/28/2017 3:00PM	EMW	20	20					
1720785-01 A	i300.0w Fluoride	7/28/2017 3:00PM		20	20					

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2477

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720785-01 A	i300.0w Nitrate as N	7/28/2017 3:00PM	EMW	20	20					
1720785-01 A	i300.0w Nitrate as NO3	7/28/2017 3:00PM		20	20					
1720785-01 A	i300.0w Sulfate	7/28/2017 3:00PM		20	20					
1720785-01 A	i300.0w Chloride	7/28/2017 3:00PM		20	20					
B[G2477-BLK1	QC	7/28/2017 3:00PM	EMW	20	20					
B[G2477-BS1	QC	7/28/2017 3:00PM	EMW	20	20	7D25031		200		
B[G2477-DUP1	QC	7/28/2017 3:00PM	EMW	20	20		1720785-01			
B[G2477-MS1	QC	7/28/2017 3:00PM	EMW	19.8	20	7D25031	1720785-01	200		
B[G2477-MSD1	QC	7/28/2017 3:00PM	EMW	19.8	20	7D25031	1720785-01	200		

Spike Mixes	Description	Solvent	Prepared	Expires
7D25031	300.0 HSSS-SPIKE	DI WATER	4/25/2017 by Emily Wells	10/25/2017

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[H0114

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-09RE2 G	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1720018-09RE2 G	i300.0w Sulfate	8/1/2017 11:00PM	EMW	20	20					
1720018-09RE2 G	i300.0w Chloride	8/1/2017 11:00PM	EMW	20	20					
1720018-09RE3 G	i300.0w Chloride	8/1/2017 11:00PM	EMW	20	20					
1720018-09RE3 G	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1720018-09RE3 G	i300.0w Sulfate	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE2 D	i300.0w Chloride	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE2 D	i300.0w Fluoride	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE2 D	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE2 D	i300.0w Sulfate	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE3 D	i300.0w Chloride	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE3 D	i300.0w Fluoride	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE3 D	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1720751-01RE3 D	i300.0w Sulfate	8/1/2017 11:00PM	EMW	20	20					
1721024-01 A	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1721024-01 A	i300.0w Chloride	8/1/2017 11:00PM	EMW	20	20					
1721024-01 A	i300.0w Sulfate	8/1/2017 11:00PM	EMW	20	20					
1721024-01 A	i300.0w Fluoride	8/1/2017 11:00PM	EMW	20	20					
1721107-01 A	i300.0w Chloride	8/1/2017 11:00PM	EMW	20	20					
1721107-01 A	i300.0w Fluoride	8/1/2017 11:00PM	EMW	20	20					
1721107-01 A	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1721107-01 A	i300.0w Sulfate	8/1/2017 11:00PM	EMW	20	20					
1721107-02 A	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1721107-03 A	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
1721108-01 A	i300.0w Nitrate as N	8/1/2017 11:00PM	EMW	20	20					
B[H0114-BLK1	QC	8/1/2017 11:00PM	EMW	20	20					
B[H0114-BS1	QC	8/1/2017 11:00PM	EMW	20	20	7D25031		200		
B[H0114-DUP1	QC	8/1/2017 11:00PM	EMW	20	20		1721107-01			
B[H0114-MS1	QC	8/1/2017 11:00PM	EMW	20	20	7D25031	1721107-01	200		
B[H0114-MSD1	QC	8/1/2017 11:00PM	EMW	20	20	7D25031	1721107-01	200		

Spike Mixes	Description	Solvent	Prepared	Expires
7D25031	300.0 HSSS-SPIKE	DI WATER	4/25/2017 by Emily Wells	10/25/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713201

Instrument: IC1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713201-ICV1	QC		1		7G12051		
1713201-ICB1	QC		2				
B[G1814-BLK1	QC		3				
B[G1814-BS1	QC		4				
1720018-01	i300.0w Chloride	F	5				
1720018-01	i300.0w Nitrate as N	F	5				
1720018-01	i300.0w Sulfate	F	5				
1720018-02	i300.0w Chloride	F	6				
1720018-02	i300.0w Nitrate as N	F	6				
1720018-02	i300.0w Sulfate	F	6				
1720018-04	i300.0w Chloride	H	7				
1720018-04	i300.0w Nitrate as N	H	7				
1720018-04	i300.0w Sulfate	H	7				
1720018-05	i300.0w Chloride	H	8				
1720018-05	i300.0w Nitrate as N	H	8				
1720018-05	i300.0w Sulfate	H	8				
1720018-06	i300.0w Chloride	H	9				
1720018-06	i300.0w Nitrate as N	H	9				
1720018-06	i300.0w Sulfate	H	9				
1720018-07	i300.0w Chloride	H	10				
1720018-07	i300.0w Nitrate as N	H	10				
1720018-07	i300.0w Sulfate	H	10				
1720018-08	i300.0w Chloride	S	11				
1720018-08	i300.0w Nitrate as N	S	11				
1720018-08	i300.0w Sulfate	S	11				
1720018-09	i300.0w Chloride	H	12				
1720018-09	i300.0w Nitrate as N	H	12				
1720018-09	i300.0w Sulfate	H	12				
1713201-CCV1	QC		13		7G12050		
1713201-CCB1	QC		14				
1720018-10	i300.0w Chloride	H	15				
1720018-10	i300.0w Nitrate as N	H	15				
1720018-10	i300.0w Sulfate	H	15				
1720018-11	i300.0w Chloride	H	16				
1720018-11	i300.0w Nitrate as N	H	16				
1720018-11	i300.0w Sulfate	H	16				
B[G1815-BLK1	QC		17				
B[G1815-BS1	QC		18				
1720029-05	i300.0w Chloride	L	19				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713201

Instrument: IC1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-05	i300.0w Nitrate as N	L	19				
1720029-05	i300.0w Sulfate	L	19				
1720029-11	i300.0w Chloride	L	20				
1720029-11	i300.0w Nitrate as N	L	20				
1720029-11	i300.0w Sulfate	L	20				
1720062-01	i300.0w Chloride	A	21				
1720062-01	i300.0w Nitrate as N	A	21				
1720062-01	i300.0w Sulfate	A	21				
1720062-02	i300.0w Chloride	A	22				
1720062-02	i300.0w Nitrate as N	A	22				
1720062-02	i300.0w Sulfate	A	22				
1720060-01	i300.0w Chloride	D	23				
1720060-01	i300.0w Nitrate as N	D	23				
1720060-01	i300.0w Sulfate	D	23				
1720060-02	i300.0w Chloride	D	24				
1720060-02	i300.0w Nitrate as N	D	24				
1720060-02	i300.0w Sulfate	D	24				
1713201-CCV2	QC		25		7G12050		
1713201-CCB2	QC		26				
1720060-03	i300.0w Chloride	D	27				
1720060-03	i300.0w Nitrate as N	D	27				
1720060-03	i300.0w Sulfate	D	27				
1720060-04	i300.0w Chloride	D	28				
1720060-04	i300.0w Nitrate as N	D	28				
1720060-04	i300.0w Sulfate	D	28				
1720058-01	i300.0w Nitrate as N	A	29				
1720058-02	i300.0w Nitrate as N	A	30				
1713201-CCV3	QC		31		7G12050		
1713201-CCB3	QC		32				
B[G1815-DUP1	QC		33				
B[G1815-MS1	QC		34				
B[G1815-MSD1	QC		35				
1713201-CCV4	QC		36		7G12050		
1713201-CCB4	QC		37				
1713201-CCV5	QC		38		7G12050		
1713201-CCB5	QC		39				
1720062-02RE1	i300.0w Chloride	A	40				Added 7/26/2017 by JSW
1720062-02RE1	i300.0w Nitrate as N	A	40				Added 7/26/2017 by JSW
1720062-02RE1	i300.0w Sulfate	A	40				Added 7/26/2017 by JSW

ANALYSIS SEQUENCE

1713201

Instrument: IC1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720062-02RE2	i300.0w Chloride	A	41				Added 7/26/2017 by JSW
1720062-02RE2	i300.0w Nitrate as N	A	41				Added 7/26/2017 by JSW
1720062-02RE2	i300.0w Sulfate	A	41				Added 7/26/2017 by JSW
1720029-05RE1	i300.0w Chloride	L	42				Added 7/26/2017 by JSW
1720029-05RE1	i300.0w Nitrate as N	L	42				Added 7/26/2017 by JSW
1720029-05RE1	i300.0w Sulfate	L	42				Added 7/26/2017 by JSW
1720060-01RE1	i300.0w Chloride	D	43				
1720060-01RE1	i300.0w Nitrate as N	D	43				
1720060-01RE1	i300.0w Sulfate	D	43				
1720018-08RE1	i300.0w Chloride	S	44				Added 7/26/2017 by JSW
1720018-08RE1	i300.0w Nitrate as N	S	44				Added 7/26/2017 by JSW
1720018-08RE1	i300.0w Sulfate	S	44				Added 7/26/2017 by JSW
1713201-CCV6	QC		45		7G12050		
1713201-CCB6	QC		46				
1713201-CCV7	QC		47		7G12050		
1713201-CCB7	QC		48				
1720018-10RE1	i300.0w Chloride	H	49				Added 7/26/2017 by JSW
1720018-10RE1	i300.0w Nitrate as N	H	49				Added 7/26/2017 by JSW
1720018-10RE1	i300.0w Sulfate	H	49				Added 7/26/2017 by JSW
1720018-08RE2	i300.0w Chloride	S	50				Added 7/26/2017 by JSW
1720018-08RE2	i300.0w Nitrate as N	S	50				Added 7/26/2017 by JSW
1720018-08RE2	i300.0w Sulfate	S	50				Added 7/26/2017 by JSW
B[G1814-DUP1	QC		51				
B[G1814-MS1	QC		52				
B[G1814-MSD1	QC		53				
1713201-CCV8	QC		54		7G12050		
1713201-CCB8	QC		55				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713497

Instrument: IC1
Calibration ID:
Sequence Date: 07/28/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713497-ICV1	QC		1		7G12051		
1713497-ICB1	QC		2				
B[G2477-BLK1	QC		3				
B[G2477-BS1	QC		4				
1720736-02	i300.0w Chloride	D	5				
1720736-02	i300.0w Nitrate as N	D	5				
1720736-02	i300.0w Sulfate	D	5				
1720736-03	i300.0w Chloride	D	6				
1720736-03	i300.0w Nitrate as N	D	6				
1720736-03	i300.0w Sulfate	D	6				
1720736-04	i300.0w Chloride	D	7				
1720736-04	i300.0w Nitrate as N	D	7				
1720736-04	i300.0w Sulfate	D	7				
1720725-01	i300.0w Chloride	A	8				
1720743-01	i300.0w Nitrate as NO3	A	9				
1720751-01	i300.0w Chloride	D	10				
1720751-01	i300.0w Fluoride	D	10				
1720751-01	i300.0w Nitrate as N	D	10				
1720751-01	i300.0w Sulfate	D	10				
1720785-01	i300.0w Chloride	A	11				BatchQC
1720785-01	i300.0w Fluoride	A	11				BatchQC
1720785-01	i300.0w Nitrate as N	A	11				
1720785-01	i300.0w Nitrate as NO3	A	11				BatchQC
1720785-01	i300.0w Sulfate	A	11				BatchQC
1713497-CCV1	QC		12		7G26021		
1713497-CCB1	QC		13				
B[G2477-DUP1	QC		14				
B[G2477-MS1	QC		15				
B[G2477-MSD1	QC		16				
1720018-02RE1	i300.0w Chloride	D	17				Re-extract added 7/27/2017 by TMS
1720018-02RE1	i300.0w Nitrate as N	D	17				Re-extract added 7/27/2017 by TMS
1720018-02RE1	i300.0w Sulfate	D	17				Re-extract added 7/27/2017 by TMS
1720018-09RE1	i300.0w Chloride	G	18				Re-extract added 7/27/2017 by TMS
1720018-09RE1	i300.0w Nitrate as N	G	18				Re-extract added 7/27/2017 by TMS
1720018-09RE1	i300.0w Sulfate	G	18				Re-extract added 7/27/2017 by TMS

ANALYSIS SEQUENCE

1713497

Instrument: IC1
Calibration ID:
Sequence Date: 07/28/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-05RE2	i300.0w Chloride	J	19				Re-extract added 7/27/2017 by TMS
1720029-05RE2	i300.0w Nitrate as N	J	19				Re-extract added 7/27/2017 by TMS
1720029-05RE2	i300.0w Sulfate	J	19				Re-extract added 7/27/2017 by TMS
1720029-05RE3	i300.0w Chloride	J	20				Re-extract added 7/27/2017 by TMS
1720029-05RE3	i300.0w Nitrate as N	J	20				Re-extract added 7/27/2017 by TMS
1720029-05RE3	i300.0w Sulfate	J	20				Re-extract added 7/27/2017 by TMS
1713497-CCV2	QC		21		7G26021		
1713497-CCB2	QC		22				
1713497-CCV3	QC		23		7G26021		
1713497-CCB3	QC		24				
1720736-02RE1	i300.0w Chloride	D	25				Added 7/31/2017 by EMW
1720736-02RE1	i300.0w Nitrate as N	D	25				Added 7/31/2017 by EMW
1720736-02RE1	i300.0w Sulfate	D	25				Added 7/31/2017 by EMW
1720029-05RE4	i300.0w Chloride	J	26				Re-extract added 7/27/2017 by TMS
1720029-05RE4	i300.0w Nitrate as N	J	26				Re-extract added 7/27/2017 by TMS
1720029-05RE4	i300.0w Sulfate	J	26				Re-extract added 7/27/2017 by TMS
1720751-01RE1	i300.0w Chloride	D	27				Added 7/31/2017 by EMW
1720751-01RE1	i300.0w Fluoride	D	27				Added 7/31/2017 by EMW
1720751-01RE1	i300.0w Nitrate as N	D	27				Added 7/31/2017 by EMW
1720751-01RE1	i300.0w Sulfate	D	27				Added 7/31/2017 by EMW
1713497-CCV4	QC		28		7G26021		
1713497-CCB4	QC		29				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713762

Instrument: IC1
Calibration ID:
Sequence Date: 08/01/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713762-ICV1	QC		1		7G12051		
1713762-ICB1	QC		2				
B[H0112-BLK1	QC		3				
B[H0112-BS1	QC		4				
1721111-01	i300.0w Nitrate as N	A	5				
B[H0112-DUP1	QC		6				
B[H0112-MS1	QC		7				
B[H0112-MSD1	QC		8				
1721111-02	i300.0w Nitrate as N	A	9				
1721111-03	i300.0w Nitrate as N	A	10				
1721111-04	i300.0w Nitrate as N	A	11				
1721111-05	i300.0w Nitrate as N	A	12				
1713762-CCV1	QC		13		7G26021		
1713762-CCB1	QC		14				
1721111-06	i300.0w Nitrate as N	A	15				
1721111-07	i300.0w Nitrate as N	A	16				
1721111-08	i300.0w Nitrate as N	A	17				
1721111-09	i300.0w Nitrate as N	A	18				
1721111-10	i300.0w Nitrate as N	A	19				
1721111-11	i300.0w Nitrate as N	A	20				
1721111-12	i300.0w Nitrate as N	A	21				
1721111-13	i300.0w Nitrate as N	A	22				
1721111-14	i300.0w Nitrate as N	A	23				
B[H0113-BLK1	QC		24				
1713762-CCV2	QC		25		7G26021		
1713762-CCB2	QC		26				
B[H0113-BS1	QC		27				
1721112-01	i300.0w Sulfate	A	28				BatchQC
1721112-01	i300.0w Nitrate as NO3	A	29				
1721112-01	i300.0w Nitrate as N	A	30				BatchQC
1721112-01	i300.0w Chloride	A	31				BatchQC
B[H0113-DUP1	QC		32				
B[H0113-MS1	QC		33				
B[H0113-MSD1	QC		34				
1721112-02	i300.0w Nitrate as NO3	A	35				
1721113-01	i300.0w Sulfate	A	36				
1721113-01	i300.0w Nitrate as N	A	37				
1721113-01	i300.0w Chloride	A	38				
B[H0114-BLK1	QC		39				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713762

Instrument: IC1
Calibration ID:
Sequence Date: 08/01/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[H0114-BS1	QC		40				
1721107-01	i300.0w Sulfate	A	41				BatchQC
1721107-01	i300.0w Nitrate as N	A	42				
1721107-01	i300.0w Fluoride	A	43				BatchQC
1721107-01	i300.0w Chloride	A	44				BatchQC
1713762-CCV3	QC		45		7G26021		
1713762-CCB3	QC		46				
B[H0114-DUP1	QC		47				
B[H0114-MS1	QC		48				
B[H0114-MSD1	QC		49				
1721107-02	i300.0w Nitrate as N	A	50				
1721107-03	i300.0w Nitrate as N	A	51				
1721108-01	i300.0w Nitrate as N	A	52				
1721024-01	i300.0w Sulfate	A	53				
1721024-01	i300.0w Nitrate as N	A	54				
1721024-01	i300.0w Fluoride	A	55				
1721024-01	i300.0w Chloride	A	56				
1720018-09RE2	i300.0w Sulfate	G	57				Re-extract added 8/1/2017 by TMS
1720018-09RE2	i300.0w Nitrate as N	G	58				Re-extract added 8/1/2017 by TMS
1720018-09RE2	i300.0w Chloride	G	59				Re-extract added 8/1/2017 by TMS
1720018-09RE3	i300.0w Sulfate	G	60				Re-extract added 8/1/2017 by TMS
1720018-09RE3	i300.0w Nitrate as N	G	61				Re-extract added 8/1/2017 by TMS
1720018-09RE3	i300.0w Chloride	G	62				Re-extract added 8/1/2017 by TMS
1720751-01RE2	i300.0w Sulfate	D	63				Re-extract added 8/1/2017 by TMS
1720751-01RE2	i300.0w Nitrate as N	D	64				Re-extract added 8/1/2017 by TMS
1720751-01RE2	i300.0w Fluoride	D	65				Re-extract added 8/1/2017 by TMS
1720751-01RE2	i300.0w Chloride	D	66				Re-extract added 8/1/2017 by TMS
1713762-CCV4	QC		67		7G26021		
1713762-CCB4	QC		68				
1720751-01RE3	i300.0w Sulfate	D	69				Re-extract added 8/1/2017 by TMS
1720751-01RE3	i300.0w Nitrate as N	D	70				Re-extract added 8/1/2017 by TMS
1720751-01RE3	i300.0w Fluoride	D	71				Re-extract added 8/1/2017 by TMS
1720751-01RE3	i300.0w Chloride	D	72				Re-extract added 8/1/2017 by TMS
1713762-CCV5	QC		73		7G26021		
1713762-CCB5	QC		74				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **WET**
Method: **EPA-310.1**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
26MW03_170720	1720018-01
26MW08_170720	1720018-02
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-18_170720	1720018-09
M14-20D_170720	1720018-10
M14-21_170720	1720018-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MET-1

Analyte	DL	LOD	LOQ	Units
Total Alkalinity as CaCO3	4.1	4.1	4.1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

26MW03_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-01
File ID: Tiamo072517-078
Sampled: 07/20/17 13:50
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 14:22
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	1400	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02
File ID: Tiamo072517-080
Sampled: 07/20/17 13:25
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 14:32
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	1900	8.2	8.2	8.2	2	D	EPA-310.1

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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID: Tiamo072517-082
Sampled: 07/20/17 08:35
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 14:42
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	460	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
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Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID: Tiamo072517-084
Sampled: 07/20/17 10:55
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 14:51
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	300	8.2	8.2	8.2	2	D	EPA-310.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-09S_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-06
File ID: Tiamo072517-086
Sampled: 07/20/17 12:35
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 14:59
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	200	4.1	4.1	4.1	1		EPA-310.1

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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID: Tiamo072517-088
Sampled: 07/20/17 09:40
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 15:06
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	410	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID: Tiamo072517-075
Sampled: 07/20/17 13:30
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 14:07
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	750	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID: Tiamo072517-090
Sampled: 07/20/17 12:00
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 15:15
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	740	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID: Tiamo072517-092
Sampled: 07/20/17 11:15
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 15:23
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	740	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID: Tiamo072517-094
Sampled: 07/20/17 10:20
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 15:32
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1461
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	420	8.2	8.2	8.2	2	D	EPA-310.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1461
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW03_170720	1720018-01	Tiamo072517-078	07/25/17 08:00	
26MW08_170720	1720018-02	Tiamo072517-080	07/25/17 08:00	
M14-06_170720	1720018-04	Tiamo072517-082	07/25/17 08:00	
M14-09D_170720	1720018-05	Tiamo072517-084	07/25/17 08:00	
M14-09S_170720	1720018-06	Tiamo072517-086	07/25/17 08:00	
M14-14_170720	1720018-07	Tiamo072517-088	07/25/17 08:00	
M14-17R_170720	1720018-08	Tiamo072517-075	07/25/17 08:00	
M14-18_170720	1720018-09	Tiamo072517-090	07/25/17 08:00	
M14-20D_170720	1720018-10	Tiamo072517-092	07/25/17 08:00	
M14-21_170720	1720018-11	Tiamo072517-094	07/25/17 08:00	
Blank	B[G1461-BLK1	Tiamo072517-074	07/25/17 08:00	
LCS	B[G1461-BS3	Tiamo072517-073	07/25/17 08:00	
M14-17R_170720	B[G1461-DUP1	Tiamo072517-076	07/25/17 08:00	

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Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1461-BLK1	File ID:	Tiamo072517-074
Prepared:	07/25/17 08:00	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	07/25/17 14:02	Instrument:	MET-1		
Batch:	B[G1461	Sequence:	1713172	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

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M14-17R_170720

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1461
Preparation: No Prep
Source Sample Name: M14-17R_170720

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G1461-DUP1
Lab Source ID: 1720018-08
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	745.75		743.32		0.326		EPA-310.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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Project Number: 5023146096
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LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G1461	Laboratory ID:	B[G1461-BS3
Preparation:	No Prep	Initial/Final:	50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	91.740	91.7	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713172	Instrument:	MET-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[G1461-BS3	Tiamo072517-073	07/25/17 13:56
Blank	B[G1461-BLK1	Tiamo072517-074	07/25/17 14:02
M14-17R_170720	1720018-08	Tiamo072517-075	07/25/17 14:07
M14-17R_170720	B[G1461-DUP1	Tiamo072517-076	07/25/17 14:14
26MW03_170720	1720018-01	Tiamo072517-078	07/25/17 14:22
26MW08_170720	1720018-02	Tiamo072517-080	07/25/17 14:32
M14-06_170720	1720018-04	Tiamo072517-082	07/25/17 14:42
M14-09D_170720	1720018-05	Tiamo072517-084	07/25/17 14:51
M14-09S_170720	1720018-06	Tiamo072517-086	07/25/17 14:59
M14-14_170720	1720018-07	Tiamo072517-088	07/25/17 15:06
M14-18_170720	1720018-09	Tiamo072517-090	07/25/17 15:15
M14-20D_170720	1720018-10	Tiamo072517-092	07/25/17 15:23
M14-21_170720	1720018-11	Tiamo072517-094	07/25/17 15:32

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 14:22	5.00	14.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 14:32	5.00	14.00	
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 14:42	5.00	14.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 14:51	5.00	14.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 14:59	5.00	14.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 15:06	5.00	14.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 14:07	5.00	14.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 15:15	5.00	14.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 15:23	5.00	14.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/25/17 08:00	5.00	14.00	07/25/17 15:32	5.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MET-1

Raw Data - Analytical Runs

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
							Alkalinity as CaCO3, mg/l		
	Determination start	2017-07-25 08:18:13					Method.	BCL-CAL Cond	
EC Calibration		(23.4 ºC) 1411							
	Determination start	2017-07-25 08:22:10					Method.	BCL-Cond	
ICV1@COND		(23.2 ºC) 997.70							
	Determination start	2017-07-25 08:23:47					Method.	BCL-Cond	
B1-BS1@COND		(23.1 ºC) 307.00							
	Determination start	2017-07-25 08:25:22					Method.	BCL-CAL-pH-5 BUFFERS	
pH Calibration									
	Determination start	2017-07-25 08:41:55					Method.	BCL-pH	
B1-BS2@pH			(24.2 ºC) 7.02						
	Determination start	2017-07-25 08:45:16			Titer	0.076	Method.	BCL-Cond-pH-Alk	
B1-BS3@Alk	50	(23.5 ºC) 215.40	(24.4 ºC) 10.24	0.524	1.234	0.00	79.72	14.15	93.87
	Determination start	2017-07-25 08:50:47			Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1.	
B1-BLK1@Alk	50	(23.3 ºC) 1.30	(24.3 ºC) 4.63	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start	2017-07-25 08:55:48			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719674-02@A	50	(12.9 ºC) 85.90	(18.2 ºC) 7.49	0.000	0.496	0.00	0.00	37.73	37.73
	Determination start	2017-07-25 09:01:36			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719674-02@A	50	(14.0 ºC) 86.40	(18.5 ºC) 7.46	0.000	0.468	0.00	0.00	35.60	35.60
		. . . 2017-07-25 09:07:17							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start . . .				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B1-DUP1	50	(14.6 ºC) 86.40	(18.9 ºC) 7.46	0.000	0.518	0.00	0.00	39.40	39.40
	Determination start	2017-07-25 09:13:00					Method.	BCL-Cond	
BLK1		(23.4 ºC) 1.40							
	Determination start	2017-07-25 09:14:41			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1718847-01@ARE1	50	(15.6 ºC) 984.60	(19.8 ºC) 8.27	0.000	3.606	0.00	0.00	274.29	274.29
	Determination start	2017-07-25 09:20:47					Method.	BCL-Cond	
BLK1		(23.2 ºC) 2.30							
	Determination start	2017-07-25 09:22:29			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720081-01@A	25	(16.6 ºC) 1119.20	(21.1 ºC) 4.87	0.000	0.404	0.00	0.00	61.46	61.46
	Determination start	2017-07-25 09:27:53					Method.	BCL-Cond	
BLK1		(22.9 ºC) 3.60							
	Determination start	2017-07-25 09:29:36			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720196-01@A	50	(17.5 ºC) 431.20	(20.8 ºC) 8.68	0.068	0.704	0.00	10.35	43.21	53.55
	Determination start	2017-07-25 09:35:33					Method.	BCL-Cond	
BLK1		(22.9 ºC) 1.90							
	Determination start	2017-07-25 09:37:15			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720265-01@B	25	(18.4 ºC) 2278.50	(22.0 ºC) 6.80	0.000	1.522	0.00	0.00	231.55	231.55

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 09:43:20						Method. BCL-Cond		
BLK1		(22.9 ºC) 5.70							
	Determination start 2017-07-25 09:45:14				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720266-01@B	25	(18.5 ºC) 2434.60	(22.3 ºC) 7.62	0.000	1.704	0.00	0.00	259.23	259.23
	Determination start 2017-07-25 09:51:01						Method. BCL-Cond		
BLK1		(22.8 ºC) 5.20							
	Determination start 2017-07-25 09:52:48				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720266-02@B	25	(19.2 ºC) 1521.10	(22.6 ºC) 6.83	0.000	1.348	0.00	0.00	205.07	205.07
	Determination start 2017-07-25 09:58:48						Method. BCL-Cond		
BLK1		(22.8 ºC) 5.30							
	Determination start 2017-07-25 10:00:30				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720266-03@B	25	(19.3 ºC) 3509.30	(22.8 ºC) 7.03	0.000	2.046	0.00	0.00	311.26	311.26
	Determination start 2017-07-25 10:07:02						Method. BCL-Cond		
BLK1		(22.8 ºC) 8.10							
	Determination start 2017-07-25 10:08:44				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720266-04@B	25	(19.7 ºC) 2132.60	(23.1 ºC) 6.07	0.000	1.522	0.00	0.00	231.55	231.55
	Determination start 2017-07-25 10:15:23						Method. BCL-Cond		
BLK1		(22.8 ºC) 6.20							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 10:17:05				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.2 ºC)	(23.4 ºC)						
1720266-05@B	25	2491.40	7.46	0.000	1.678	0.00	0.00	255.28	255.28
	Determination start 2017-07-25 10:23:16						Method.	BCL-Cond	
		(22.8 ºC)							
BLK1		6.90							
	Determination start 2017-07-25 10:24:55						Method.	BCL-Cond	
		(21.5 ºC)							
B2-BS1@COND		308.30							
	Determination start 2017-07-25 10:26:43						Method.	BCL-pH	
			(24.1 ºC)						
B2-BS2@PH			7.01						
	Determination start 2017-07-25 10:29:57				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.7 ºC)	(23.7 ºC)						
B2-BS3@ALK	50	208.70	10.14	0.476	1.208	0.00	72.42	19.47	91.89
	Determination start 2017-07-25 10:35:26				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1	
		(21.8 ºC)	(23.6 ºC)						
B2-BLK1	50	3.30	4.86	0.000	0.020	0.00	0.00	1.52	1.52
	Determination start 2017-07-25 10:40:51				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.7 ºC)	(23.1 ºC)						
1719891-01@D	50	824.70	7.79	0.000	3.624	0.00	0.00	275.66	275.66
	Determination start 2017-07-25 10:46:47				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.7 ºC)	(23.1 ºC)						
B2-DUP1	50	824.90	7.79	0.000	3.676	0.00	0.00	279.62	279.62
	Determination start 2017-07-25 10:52:46				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.1 ºC)	(23.3 ºC)						
1719674-03@A	50	93.30	7.39	0.000	0.560	0.00	0.00	42.60	42.60

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start	2017-07-25 10:58:12					Method.	BCL-Cond	
BLK1		(23.2 ºC) 3.40							
	Determination start	2017-07-25 10:59:55			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719674-04@A	50	(21.4 ºC) 86.70	(23.5 ºC) 7.37	0.000	0.522	0.00	0.00	39.71	39.71
	Determination start	2017-07-25 11:05:06					Method.	BCL-Cond	
BLK1		(23.3 ºC) 3.30							
	Determination start	2017-07-25 11:06:49			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719714-05@D	50	(21.8 ºC) 524.40	(23.8 ºC) 7.75	0.000	3.776	0.00	0.00	287.23	287.23
	Determination start	2017-07-25 11:12:40			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719740-01@A	50	(22.1 ºC) 853.10	(24.1 ºC) 7.94	0.000	2.708	0.00	0.00	205.99	205.99
	Determination start	2017-07-25 11:18:21			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719740-02@A	50	(22.3 ºC) 605.20	(24.2 ºC) 7.96	0.000	2.256	0.00	0.00	171.61	171.61
	Determination start	2017-07-25 11:23:55			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719749-01@A	50	(22.0 ºC) 715.70	(24.0 ºC) 5.82	0.000	2.184	0.00	0.00	166.13	166.13
	Determination start	2017-07-25 11:31:02					Method.	BCL-Cond	
BLK1		(23.6 ºC) 4.30							
	Determination start	2017-07-25 11:32:44			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719811-01@P	25	(22.1 ºC) 46347.50	(24.6 ºC) 7.57	0.000	18.898	0.00	0.00	2875.00	2875.00

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 11:43:28						Method. BCL-Cond		
BLK1		(23.9 ºC) 29.40							
	Determination start 2017-07-25 11:45:28				Titer	0.076	Method. BCL-Cond-pH-Alk		
1719845-01@A	50	(22.6 ºC) 658.50	(24.7 ºC) 5.76	0.000	1.808	0.00	0.00	137.53	137.53
	Determination start 2017-07-25 11:52:07						Method. BCL-Cond		
BLK1		(23.9 ºC) 8.40							
	Determination start 2017-07-25 11:53:50				Titer	0.076	Method. BCL-Cond-pH-Alk		
1719891-02@D	25	(23.0 ºC) 1137.20	(25.2 ºC) 7.70	0.000	3.060	0.00	0.00	465.53	465.53
	Determination start 2017-07-25 12:00:06						Method. BCL-Cond		
B3-BS1@COND		(23.1 ºC) 311.90							
	Determination start 2017-07-25 12:01:41						Method. BCL-pH		
B3-BS2@PH			(25.6 ºC) 7.01						
	Determination start 2017-07-25 12:05:02				Titer	0.076	Method. BCL-Cond-pH-Alk		
B3-BS3@ALK	50	(23.1 ºC) 201.50	(25.4 ºC) 9.99	0.394	1.208	0.00	59.94	31.95	91.89
	Determination start 2017-07-25 12:10:35				Titer	0.076	Method. BCL-Cond-pH-Alk-BLK1		
B3-BLK1	50	(23.2 ºC) 1.60	(25.4 ºC) 4.87	0.000	0.024	0.00	0.00	1.83	1.83
	Determination start 2017-07-25 12:16:00				Titer	0.076	Method. BCL-Cond-pH-Alk		
1719983-04@A	25	(23.1 ºC) 1063.80	(25.8 ºC) 7.91	0.000	0.672	0.00	0.00	102.23	102.23

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 12:21:28				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.1 ºC)	(25.9 ºC)						
B3-DUP1	25	1064.30	7.92	0.000	0.664	0.00	0.00	101.02	101.02
	Determination start 2017-07-25 12:26:50				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.3 ºC)	(26.1 ºC)						
1719891-03@D	25	1636.30	7.64	0.000	2.088	0.00	0.00	317.65	317.65
	Determination start 2017-07-25 12:32:53						Method.	BCL-Cond	
		(24.1 ºC)							
BLK1		3.90							
	Determination start 2017-07-25 12:34:36				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(26.2 ºC)						
1719969-01@D	25	5087.60	8.38	0.144	9.620	0.00	43.81	1419.70	1463.52
	Determination start 2017-07-25 12:42:00						Method.	BCL-Cond	
		(24.2 ºC)							
BLK1		8.40							
	Determination start 2017-07-25 12:44:01				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(25.7 ºC)						
1719983-05@A	50	873.50	8.03	0.000	2.404	0.00	0.00	182.86	182.86
	Determination start 2017-07-25 12:49:40				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.5 ºC)	(25.7 ºC)						
1719983-06@A	50	804.80	8.14	0.000	2.424	0.00	0.00	184.38	184.38
	Determination start 2017-07-25 12:55:15				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.5 ºC)	(26.1 ºC)						
1719995-02@D	25	13110.80	7.75	0.000	30.740	0.00	0.00	4676.55	4676.55
	Determination start 2017-07-25 13:07:37						Method.	BCL-Cond	
		(24.7 ºC)							
BLK1		14.40							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 13:09:38				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(26.3 ºC)						
1719995-03@D	25	15745.40	7.69	0.000	37.624	0.00	0.00	5723.83	5723.83
	Determination start 2017-07-25 13:23:44						Method.	BCL-Cond	
		(24.7 ºC)							
BLK1		13.20							
	Determination start 2017-07-25 13:25:26				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(26.2 ºC)						
1719995-04@D	25	9722.00	7.63	0.000	23.092	0.00	0.00	3513.04	3513.04
	Determination start 2017-07-25 13:36:10						Method.	BCL-Cond	
		(24.9 ºC)							
BLK1		13.30							
	Determination start 2017-07-25 13:37:52				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(26.3 ºC)						
1719997-02@A	25	1610.20	7.61	0.000	2.842	0.00	0.00	432.36	432.36
	Determination start 2017-07-25 13:44:28						Method.	BCL-Cond	
		(24.8 ºC)							
BLK1		6.50							
	Determination start 2017-07-25 13:46:09				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.8 ºC)	(25.8 ºC)						
1720006-01@A	50	257.90	7.77	0.000	0.866	0.00	0.00	65.87	65.87
	Determination start 2017-07-25 13:51:53						Method.	BCL-Cond	
		(23.9 ºC)							
B4-BS1@COND		312.60							
	Determination start 2017-07-25 13:53:35						Method.	BCL-pH	
			(26.2 ºC)						
B4-BS2@PH			7.01						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 13:56:57				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(24.5 ºC)	(26.3 ºC)						
B4-BS3@ALK	50	198.10	9.86	0.350	1.206	0.00	53.25	38.49	91.74
	Determination start 2017-07-25 14:02:29				Titer 0.076		Method. BCL-Cond-pH-Alk-BLK1.		
		(24.6 ºC)	(26.3 ºC)						
B4-BLK1	50	2.20	4.69	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start 2017-07-25 14:07:37				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(24.4 ºC)	(26.5 ºC)						
1720018-08@S	25	6668.10	7.16	0.000	4.902	0.00	0.00	745.75	745.75
	Determination start 2017-07-25 14:14:16				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(24.5 ºC)	(26.6 ºC)						
B4-DUP1	25	6668.10	7.17	0.000	4.886	0.00	0.00	743.32	743.32
	Determination start 2017-07-25 14:21:08						Method. BCL-Cond		
		(25.1 ºC)							
BLK1		15.40							
	Determination start 2017-07-25 14:22:49				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(24.4 ºC)	(26.5 ºC)						
1720018-01@E	25	26517.20	7.25	0.000	9.420	0.00	0.00	1433.09	1433.09
	Determination start 2017-07-25 14:30:32						Method. BCL-Cond		
		(25.2 ºC)							
BLK1		25.50							
	Determination start 2017-07-25 14:32:32				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(24.5 ºC)	(26.5 ºC)						
1720018-02@F	25	28580.70	7.25	0.000	12.552	0.00	0.00	1909.57	1909.57
	Determination start 2017-07-25 14:40:54						Method. BCL-Cond		
		(25.2 ºC)							
BLK1		22.10							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 14:42:54				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.4 ºC)						
1720018-04@H	25	4806.60	7.02	0.000	3.034	0.00	0.00	461.57	461.57
	Determination start 2017-07-25 14:49:32						Method.	BCL-Cond	
		(25.2 ºC)							
BLK1		17.80							
	Determination start 2017-07-25 14:51:32				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.5 ºC)						
1720018-05@H	25	2524.20	7.18	0.000	1.994	0.00	0.00	303.35	303.35
	Determination start 2017-07-25 14:57:44						Method.	BCL-Cond	
		(25.2 ºC)							
BLK1		14.40							
	Determination start 2017-07-25 14:59:36				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.6 ºC)	(26.4 ºC)						
1720018-06@G	50	728.70	7.46	0.000	2.628	0.00	0.00	199.90	199.90
	Determination start 2017-07-25 15:05:14						Method.	BCL-Cond	
		(25.2 ºC)							
BLK1		10.60							
	Determination start 2017-07-25 15:06:56				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.6 ºC)	(26.6 ºC)						
1720018-07@G	25	1737.40	7.59	0.000	2.690	0.00	0.00	409.24	409.24
	Determination start 2017-07-25 15:13:18						Method.	BCL-Cond	
		(25.3 ºC)							
BLK1		13.90							
	Determination start 2017-07-25 15:15:09				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.5 ºC)						
1720018-09@G	25	4444.60	7.36	0.000	4.890	0.00	0.00	743.93	743.93

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 15:21:55						Method. BCL-Cond		
BLK1		(25.2 ºC) 19.10							
	Determination start 2017-07-25 15:23:40				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-10@G	25	(24.5 ºC) 6753.80	(26.5 ºC) 7.24	0.000	4.852	0.00	0.00	738.15	738.15
	Determination start 2017-07-25 15:30:23						Method. BCL-Cond		
BLK1		(25.3 ºC) 19.70							
	Determination start 2017-07-25 15:32:23				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-11@G	25	(24.5 ºC) 2390.00	(26.5 ºC) 7.61	0.000	2.772	0.00	0.00	421.71	421.71
	Determination start 2017-07-25 15:38:59						Method. BCL-Cond		
BLK1		(25.2 ºC) 15.20							
	Determination start 2017-07-25 15:40:58						Method. BCL-Cond		
B5-BS1@COND		(24.5 ºC) 318.00							
	Determination start 2017-07-25 15:42:44						Method. BCL-pH		
B5-BS2@PH			(26.5 ºC) 7.01						
	Determination start 2017-07-25 15:46:04				Titer 0.076		Method. BCL-Cond-pH-Alk		
B5-BS3@ALK	50	(24.2 ºC) 212.50	(26.0 ºC) 9.97	0.388	1.216	0.00	59.03	33.47	92.50
	Determination start 2017-07-25 15:51:36				Titer 0.076		Method. BCL-Cond-pH-Alk-BLK1.		
B5-BLK1	50	(24.1 ºC) 3.50	(25.9 ºC) 4.83	0.000	0.022	0.00	0.00	1.67	1.67

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 15:57:02				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.1 ºC)	(25.9 ºC)						
1720060-02@D	50	312.90	7.55	0.000	1.024	0.00	0.00	77.89	77.89
	Determination start 2017-07-25 16:02:18				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.9 ºC)	(25.7 ºC)						
B5-DUP1	50	312.50	7.56	0.000	1.000	0.00	0.00	76.07	76.07
	Determination start 2017-07-25 16:07:34				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.0 ºC)	(26.1 ºC)						
1720029-05@J	25	1384.40	7.59	0.000	3.936	0.00	0.00	598.79	598.79
	Determination start 2017-07-25 16:14:36						Method.	BCL-Cond	
		(25.8 ºC)							
BLK1		2.00							
	Determination start 2017-07-25 16:16:17				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.3 ºC)						
1720029-11@J	25	1660.20	6.94	0.000	2.214	0.00	0.00	336.82	336.82
	Determination start 2017-07-25 16:22:34						Method.	BCL-Cond	
		(25.5 ºC)							
BLK1		2.20							
	Determination start 2017-07-25 16:24:14				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.4 ºC)						
1720053-01@A	25	2280.60	8.01	0.000	2.500	0.00	0.00	380.33	380.33
	Determination start 2017-07-25 16:30:17						Method.	BCL-Cond	
		(25.3 ºC)							
BLK1		1.60							
	Determination start 2017-07-25 16:31:58				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.3 ºC)						
1720060-01@D	25	1417.80	7.58	0.000	4.222	0.00	0.00	642.30	642.30

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 16:38:39				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.0 ºC)						
1720060-03@D	50	281.50	7.56	0.000	0.584	0.00	0.00	44.42	44.42
	Determination start 2017-07-25 16:43:47				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.1 ºC)						
1720060-04@D	50	350.50	7.58	0.000	1.112	0.00	0.00	84.59	84.59
	Determination start 2017-07-25 16:49:04				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.0 ºC)	(25.9 ºC)						
1720064-01@D	50	359.40	8.08	0.000	1.140	0.00	0.00	86.72	86.72
	Determination start 2017-07-25 16:54:15						Method.	BCL-Cond	
		(26.5 ºC)							
BLK1		0.80							
	Determination start 2017-07-25 16:55:56				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.8 ºC)	(26.1 ºC)						
1720066-01@D	25	1077.50	7.96	0.000	2.300	0.00	0.00	349.90	349.90
	Determination start 2017-07-25 17:01:26						Method.	BCL-Cond	
		(26.0 ºC)							
BLK1		1.80							
	Determination start 2017-07-25 17:03:09				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.1 ºC)	(25.3 ºC)						
1720068-01@D	50	378.50	8.48	0.076	1.984	0.00	11.56	139.35	150.92
	Determination start 2017-07-25 17:08:47						Method.	BCL-Cond	
		(25.7 ºC)							
BLK1		1.10							
	Determination start 2017-07-25 17:10:27						Method.	BCL-Cond	
		(23.0 ºC)							
B6-BS1@COND		315.90							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start	2017-07-25 17:12:00					Method .	BCL-pH	
B6-BS2@PH			(25.5 ºC) 7.01						
	Determination start	2017-07-25 17:15:18			Titer	0.076	Method .	BCL-Cond-pH-Alk	
B6-BS3@ALK	50	(23.1 ºC) 196.30	(25.4 ºC) 9.98	0.378	1.184	0.00	57.51	32.56	90.06
	Determination start	2017-07-25 17:20:45			Titer	0.076	Method .	BCL-Cond-pH-Alk-BLK1.	
B6-BLK1	50	(23.1 ºC) 2.50	(25.3 ºC) 4.62	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start	2017-07-25 17:25:44			Titer	0.076	Method .	BCL-Cond-pH-Alk	
1720070-01@C	25	(22.9 ºC) 1214.80	(25.6 ºC) 7.56	0.000	1.734	0.00	0.00	263.80	263.80
	Determination start	2017-07-25 17:31:14			Titer	0.076	Method .	BCL-Cond-pH-Alk	
B6-DUP1	25	(23.0 ºC) 1216.50	(25.8 ºC) 7.58	0.000	1.718	0.00	0.00	261.36	261.36
	Determination start	2017-07-25 17:36:54			Titer	0.076	Method .	BCL-Cond-pH-Alk	
1720079-01@J	25	(23.4 ºC) 42209.20	(26.0 ºC) 7.54	0.000	18.398	0.00	0.00	2798.93	2798.93
	Determination start	2017-07-25 17:47:47					Method .	BCL-Cond	
BLK1		(25.1 ºC) 22.20							
	Determination start	2017-07-25 17:49:29			Titer	0.076	Method .	BCL-Cond-pH-Alk	
1720080-01@I	25	(23.8 ºC) 49462.10	(26.2 ºC) 7.57	0.000	17.764	0.00	0.00	2702.48	2702.48
	Determination start	2017-07-25 18:00:18					Method .	BCL-Cond	
BLK1		(24.9 ºC) 20.90							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 18:01:59				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(23.9 ºC)	(25.9 ºC)						
1720082-01@A	50	562.70	5.99	0.000	1.968	0.00	0.00	149.70	149.70
	Determination start 2017-07-25 18:08:48						Method. BCL-Cond		
		(24.5 ºC)							
BLK1		5.00							
	Determination start 2017-07-25 18:10:30				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(23.6 ºC)	(25.7 ºC)						
1720084-01@D	50	743.40	7.76	0.000	3.594	0.00	0.00	273.38	273.38
	Determination start 2017-07-25 18:16:22						Method. BCL-Cond		
		(24.6 ºC)							
BLK1		5.50							
	Determination start 2017-07-25 18:18:03				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(22.8 ºC)	(25.6 ºC)						
1720109-01@B	25	2235.20	4.88	0.000	2.632	0.00	0.00	400.41	400.41
	Determination start 2017-07-25 18:28:19						Method. BCL-Cond		
		(24.6 ºC)							
BLK1		8.70							
	Determination start 2017-07-25 18:30:20				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(22.3 ºC)	(25.5 ºC)						
1720121-01@S	25	18132.50	7.52	0.000	2.150	0.00	0.00	327.08	327.08
	Determination start 2017-07-25 18:36:38						Method. BCL-Cond		
		(24.6 ºC)							
BLK1		20.70							
	Determination start 2017-07-25 18:38:38				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(22.4 ºC)	(25.0 ºC)						
1720121-03@H	50	883.30	7.72	0.000	3.990	0.00	0.00	303.50	303.50

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 18:44:34						Method.	BCL-Cond	
BLK1		(24.4 ºC) 8.10							
	Determination start 2017-07-25 18:46:19				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720121-06@G	50	(22.7 ºC) 783.80	(25.0 ºC) 8.27	0.000	4.562	0.00	0.00	347.01	347.01
	Determination start 2017-07-25 18:52:18						Method.	BCL-Cond	
BLK1		(24.4 ºC) 8.20							
	Determination start 2017-07-25 18:54:00				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720121-07@G	25	(23.0 ºC) 29718.00	(25.7 ºC) 6.67	0.000	0.562	0.00	0.00	85.50	85.50
	Determination start 2017-07-25 18:59:42						Method.	BCL-Cond	
BLK1		(24.5 ºC) 27.60							
	Determination start 2017-07-25 19:01:40						Method.	BCL-Cond	
B7-BS1@COND		(23.4 ºC) 317.20							
	Determination start 2017-07-25 19:03:23						Method.	BCL-pH	
B7-BS2@PH			(25.8 ºC) 7.01						
	Determination start 2017-07-25 19:06:51				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B7-BS3@ALK	50	(23.4 ºC) 200.90	(25.5 ºC) 10.02	0.406	1.204	0.00	61.77	29.82	91.58
	Determination start 2017-07-25 19:12:23				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1.	
B7-BLK1	50	(23.3 ºC) 2.70	(25.5 ºC) 4.94	0.000	0.026	0.00	0.00	1.98	1.98

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 19:17:54				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(25.6 ºC)						
1720121-08@G	50	843.00	8.03	0.000	3.076	0.00	0.00	233.98	233.98
	Determination start 2017-07-25 19:23:40				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.7 ºC)						
B7-DUP1	50	843.70	8.05	0.000	3.068	0.00	0.00	233.37	233.37
	Determination start 2017-07-25 19:29:24						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		10.70							
	Determination start 2017-07-25 19:31:16				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.7 ºC)						
1720121-09@G	50	784.20	9.88	1.136	3.406	0.00	172.82	86.26	259.08
	Determination start 2017-07-25 19:37:42						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		12.00							
	Determination start 2017-07-25 19:39:22				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720121-10@G	50	246.70	8.05	0.000	1.208	0.00	0.00	91.89	91.89
	Determination start 2017-07-25 19:45:10						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		10.70							
	Determination start 2017-07-25 19:46:51				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.9 ºC)						
1720121-11@G	25	6107.30	7.49	0.000	5.764	0.00	0.00	876.89	876.89
	Determination start 2017-07-25 19:53:36						Method.	BCL-Cond	
		(24.6 ºC)							
BLK1		19.40							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 19:55:37				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.9 ºC)						
1720121-12@H	25	3678.30	7.36	0.000	3.430	0.00	0.00	521.81	521.81
	Determination start 2017-07-25 20:02:06						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		19.40							
	Determination start 2017-07-25 20:03:53				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720121-13@H	50	526.30	7.68	0.000	2.366	0.00	0.00	179.97	179.97
	Determination start 2017-07-25 20:09:26						Method.	BCL-Cond	
		(24.4 ºC)							
BLK1		12.10							
	Determination start 2017-07-25 20:11:07				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(25.7 ºC)						
1720121-14@G	25	2999.10	8.07	0.000	1.482	0.00	0.00	225.46	225.46
	Determination start 2017-07-25 20:16:33						Method.	BCL-Cond	
		(24.4 ºC)							
BLK1		16.80							
	Determination start 2017-07-25 20:18:14				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.8 ºC)						
1720122-03@L	25	10859.60	7.79	0.000	7.818	0.00	0.00	1189.37	1189.37
	Determination start 2017-07-25 20:25:29						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		24.50							
	Determination start 2017-07-25 20:27:29				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.6 ºC)						
1720122-04@K	50	777.50	7.46	0.000	4.716	0.00	0.00	358.73	358.73

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 20:33:31						Method. BCL-Cond		
BLK1		(24.5 ºC) 14.40							
	Determination start 2017-07-25 20:35:18				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720122-05@G	50	(23.6 ºC) 654.70	(25.5 ºC) 8.14	0.000	3.594	0.00	0.00	273.38	273.38
	Determination start 2017-07-25 20:41:07						Method. BCL-Cond		
BLK1		(24.5 ºC) 14.20							
	Determination start 2017-07-25 20:42:46						Method. BCL-Cond		
B8-BS1@COND		(23.7 ºC) 324.10							
	Determination start 2017-07-25 20:44:27						Method. BCL-pH		
B8-BS2@PH			(25.8 ºC) 7.01						
	Determination start 2017-07-25 20:47:44				Titer	0.076	Method. BCL-Cond-pH-Alk		
B8-BS3@ALK	50	(23.6 ºC) 212.70	(25.5 ºC) 9.71	0.294	1.210	0.00	44.73	47.31	92.04
	Determination start 2017-07-25 20:53:38				Titer	0.076	Method. BCL-Cond-pH-Alk-BLK1.		
B8-BLK1	50	(23.6 ºC) 4.40	(25.5 ºC) 4.64	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start 2017-07-25 20:58:47				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720122-06@H	25	(23.4 ºC) 5868.40	(25.7 ºC) 7.98	0.000	3.880	0.00	0.00	590.27	590.27
	Determination start 2017-07-25 21:05:00				Titer	0.076	Method. BCL-Cond-pH-Alk		
B8-DUP1	25	(23.4 ºC) 5864.80	(25.7 ºC) 7.99	0.000	3.880	0.00	0.00	590.27	590.27

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 21:11:25						Method.	BCL-Cond	
BLK1		(24.5 ºC) 20.80							
	Determination start 2017-07-25 21:13:08				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-01@A	50	(23.3 ºC) 720.80	(25.2 ºC) 7.31	0.000	2.330	0.00	0.00	177.23	177.23
	Determination start 2017-07-25 21:19:02						Method.	BCL-Cond	
BLK1		(24.5 ºC) 15.20							
	Determination start 2017-07-25 21:20:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-02@B	25	(23.4 ºC) 1629.70	(25.5 ºC) 7.11	0.000	5.796	0.00	0.00	881.76	881.76
	Determination start 2017-07-25 21:27:49						Method.	BCL-Cond	
BLK1		(24.5 ºC) 16.90							
	Determination start 2017-07-25 21:29:31				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-03@A	25	(23.2 ºC) 1532.80	(25.4 ºC) 7.48	0.000	5.488	0.00	0.00	834.90	834.90
	Determination start 2017-07-25 21:36:17				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-04@A	25	(23.3 ºC) 1603.80	(25.5 ºC) 7.59	0.000	5.574	0.00	0.00	847.99	847.99
	Determination start 2017-07-25 21:42:39				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-05@A	25	(23.5 ºC) 1021.90	(25.6 ºC) 7.72	0.000	3.720	0.00	0.00	565.93	565.93
	Determination start 2017-07-25 21:48:48				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-06@A	50	(23.4 ºC) 440.40	(25.3 ºC) 7.94	0.000	2.198	0.00	0.00	167.19	167.19

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 21:54:23				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720147-07@B	25	1007.70	8.00	0.000	2.794	0.00	0.00	425.06	425.06
	Determination start 2017-07-25 22:00:22				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.5 ºC)	(25.4 ºC)						
1720147-08@A	50	477.20	7.48	0.000	2.762	0.00	0.00	210.10	210.10
	Determination start 2017-07-25 22:06:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720147-09@A	25	1864.00	7.48	0.000	7.288	0.00	0.00	1108.74	1108.74
	Determination start 2017-07-25 22:13:46						Method.	BCL-Cond	
		(24.6 ºC)							
BLK1		18.10							
	Determination start 2017-07-25 22:15:43						Method.	BCL-Cond	
		(23.7 ºC)							
10000		10174.60							
	Determination start 2017-07-25 22:17:42						Method.	BCL-Cond	
		(23.4 ºC)							
303		327.00							
	Determination start 2017-07-25 22:19:17						Method.	BCL-Cond	
		(23.6 ºC)							
303		321.70							
	Determination start 2017-07-25 22:21:02						Method.	BCL-Cond	
		(23.6 ºC)							
303		326.20							
	Determination start 2017-07-25 22:22:44						Method.	BCL-pH	
			(25.5 ºC)						
7.00			7.01						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start	2017-07-25 22:25:55					Method .	BCL-pH	
7.00		(25.5 ºC)	7.02						
	Determination start	2017-07-25 22:29:22					Method .	BCL-pH	
7.00		(25.6 ºC)	7.02						

Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1461

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water

Prepared using: Wet Chem - No Prep

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-01 D	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-02 D	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-04 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-05 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-06 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-07 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-08 S	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-09 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-10 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720018-11 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
B[G1461-BLK1	QC	7/25/2017 8:00AM	RML	50	50					
B[G1461-BS3	QC	7/25/2017 8:00AM	RML	50	50	7G27013		5000		
B[G1461-DUP1	QC	7/25/2017 8:00AM	RML	50	50		1720018-08			

Spike Mixes	Description	Solvent	Prepared	Expires
7G27013	ALK NA2CO3	H2O	5/31/2017 by Rosa Ledesma	10/31/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713172-ICV1	QC		1		7B07020		
B[G1458-BS1	QC		2				
B[G1458-BS2	QC		3				
B[G1458-BS3	QC		4				
B[G1458-BLK1	QC		5				
1719674-02	i120.1w EC	A	6				
1719674-02	i150.1w pH	A	6				BatchQC
1719674-02	i310.1w CO3	A	6				BatchQC
1719674-02	i310.1w CO3 Alk as CaCO3	A	6				
1719674-02	i310.1w HCO3	A	6				BatchQC
1719674-02	i310.1w HCO3 Alk as CaCO3	A	6				
1719674-02	i310.1w OH Alk as CaCO3	A	6				
1719674-02	i310.1w Tot Alk as CaCO3	A	6				
1719674-02	iSM2320Bw CO3	A	6				BatchQC
1719674-02	iSM2320Bw HCO3	A	6				BatchQC
1719674-02	iSM2320Bw OH	A	6				BatchQC
1719674-02	ISM2510Bw EC	A	6				BatchQC
B[G1458-DUP1	QC		7				
1720081-01	i120.1w EC	A	8				
1720196-01	i150.1w pH	A	9				
1720196-01	iSM2320Bw CO3	A	9				
1720196-01	iSM2320Bw HCO3	A	9				
1720196-01	iSM2320Bw OH	A	9				
1720196-01	ISM2510Bw EC	A	9				
1720265-01	i150.1w pH	A	10				
1720266-01	i150.1w pH	A	11				
1720266-02	i150.1w pH	A	12				
1720266-03	i150.1w pH	A	13				
1720266-04	i150.1w pH	A	14				
1720266-05	i150.1w pH	A	15				
B[G1459-BS1	QC		16				
B[G1459-BS2	QC		17				
B[G1459-BS3	QC		18				
B[G1459-BLK1	QC		19				
1719891-01	i120.1w EC	D	20				BatchQC
1719891-01	i150.1w pH	D	20				BatchQC
1719891-01	i310.1w CO3 Alk as CaCO3	D	20				BatchQC
1719891-01	i310.1w HCO3 Alk as CaCO3	D	20				BatchQC
1719891-01	i310.1w OH Alk as CaCO3	D	20				BatchQC

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719891-01	i310.1w Tot Alk as CaCO3	D	20				BatchQC
1719891-01	iSM2320Bw CO3	D	20				BatchQC
1719891-01	iSM2320Bw CO3 Alk as CaCO3	D	20				
1719891-01	iSM2320Bw HCO3	D	20				BatchQC
1719891-01	iSM2320Bw HCO3 Alk as CaC(	D	20				
1719891-01	iSM2320Bw OH	D	20				BatchQC
1719891-01	iSM2320Bw OH Alk as CaCO3	D	20				BatchQC
1719891-01	iSM2320Bw Tot Alk as CaCO3	D	20				BatchQC
1719891-01	ISM2510Bw EC	D	20				BatchQC
B[G1459-DUP1	QC		21				
1719674-03	i120.1w EC	A	22				
1719674-03	i310.1w CO3 Alk as CaCO3	A	22				
1719674-03	i310.1w HCO3 Alk as CaCO3	A	22				
1719674-03	i310.1w OH Alk as CaCO3	A	22				
1719674-03	i310.1w Tot Alk as CaCO3	A	22				
1719674-04	i120.1w EC	A	23				
1719674-04	i310.1w CO3 Alk as CaCO3	A	23				
1719674-04	i310.1w HCO3 Alk as CaCO3	A	23				
1719674-04	i310.1w OH Alk as CaCO3	A	23				
1719674-04	i310.1w Tot Alk as CaCO3	A	23				
1719714-05	i310.1w CO3 Alk as CaCO3	D	24				
1719714-05	i310.1w HCO3 Alk as CaCO3	D	24				
1719714-05	i310.1w OH Alk as CaCO3	D	24				
1719714-05	i310.1w Tot Alk as CaCO3	D	24				
1719740-01	i150.1w pH	A	25				
1719740-01	iSM2320Bw CO3	A	25				
1719740-01	iSM2320Bw HCO3	A	25				
1719740-01	iSM2320Bw OH	A	25				
1719740-01	ISM2510Bw EC	A	25				
1719740-02	i150.1w pH	A	26				
1719740-02	iSM2320Bw CO3	A	26				
1719740-02	iSM2320Bw HCO3	A	26				
1719740-02	iSM2320Bw OH	A	26				
1719740-02	ISM2510Bw EC	A	26				
1719749-01	i120.1w EC	A	27				
1719749-01	i150.1w pH	A	27				
1719811-01	i150.1w pH	I	28				
1719811-01	iSM2320Bw CO3 Alk as CaCO3	I	28				
1719811-01	iSM2320Bw HCO3 Alk as CaC(	I	28				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719811-01	iSM2320Bw OH Alk as CaCO3	I	28				
1719811-01	iSM2320Bw Tot Alk as CaCO3	I	28				
1719845-01	i120.1w EC	A	29				
1719891-02	iSM2320Bw CO3 Alk as CaCO3	D	30				
1719891-02	iSM2320Bw HCO3 Alk as CaC(	D	30				
B[G1460-BS1	QC		31				
B[G1460-BS2	QC		32				
B[G1460-BS3	QC		33				
B[G1460-BLK1	QC		34				
1719983-04	i120.1w EC	A	35				
1719983-04	i150.1w pH	A	35				
1719983-04	i310.1w CO3	A	35				
1719983-04	i310.1w HCO3	A	35				
1719983-04	i310.1w OH	A	35				
1719983-04	iSM2320Bw CO3 Alk as CaCO3	A	35				BatchQC
1719983-04	iSM2320Bw HCO3 Alk as CaC(	A	35				BatchQC
1719983-04	ISM2510Bw EC	A	35				BatchQC
B[G1460-DUP1	QC		36				
1719891-03	iSM2320Bw CO3 Alk as CaCO3	D	37				
1719891-03	iSM2320Bw HCO3 Alk as CaC(	D	37				
1719969-01	i150.1w pH	D	38				
1719983-05	i120.1w EC	A	39				
1719983-05	i150.1w pH	A	39				
1719983-05	i310.1w CO3	A	39				
1719983-05	i310.1w HCO3	A	39				
1719983-05	i310.1w OH	A	39				
1719983-06	i120.1w EC	A	40				
1719983-06	i150.1w pH	A	40				
1719983-06	i310.1w CO3	A	40				
1719983-06	i310.1w HCO3	A	40				
1719983-06	i310.1w OH	A	40				
1719995-02	i120.1w EC	D	41				
1719995-02	i150.1w pH	D	41				
1719995-02	i310.1w CO3	D	41				
1719995-02	i310.1w HCO3	D	41				
1719995-03	i120.1w EC	D	42				
1719995-03	i150.1w pH	D	42				
1719995-03	i310.1w CO3	D	42				
1719995-03	i310.1w HCO3	D	42				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719995-04	i120.1w EC	D	43				
1719995-04	i150.1w pH	D	43				
1719995-04	i310.1w CO3	D	43				
1719995-04	i310.1w HCO3	D	43				
1719997-02	ISM2510Bw EC	A	44				
1720006-01	ISM2510Bw EC	A	45				
B[G1461-BS3	QC		46				
B[G1461-BLK1	QC		47				
1720018-08	i310.1w Tot Alk as CaCO3	S	48				
B[G1461-DUP1	QC		49				
1720018-01	i310.1w Tot Alk as CaCO3	D	50				
1720018-02	i310.1w Tot Alk as CaCO3	D	51				
1720018-04	i310.1w Tot Alk as CaCO3	G	52				
1720018-05	i310.1w Tot Alk as CaCO3	G	53				
1720018-06	i310.1w Tot Alk as CaCO3	G	54				
1720018-07	i310.1w Tot Alk as CaCO3	G	55				
1720018-09	i310.1w Tot Alk as CaCO3	G	56				
1720018-10	i310.1w Tot Alk as CaCO3	G	57				
1720018-11	i310.1w Tot Alk as CaCO3	G	58				
B[G1462-BS1	QC		59				
B[G1462-BS2	QC		60				
B[G1462-BS3	QC		61				
B[G1462-BLK1	QC		62				
1720060-02	i150.1w pH	D	63				BatchQC
1720060-02	i310.1w CO3	D	63				
1720060-02	i310.1w HCO3	D	63				
1720060-02	i310.1w Tot Alk as CaCO3	D	63				BatchQC
1720060-02	iSM2320Bw CO3	D	63				BatchQC
1720060-02	iSM2320Bw HCO3	D	63				BatchQC
1720060-02	iSM2320Bw OH	D	63				BatchQC
1720060-02	ISM2510Bw EC	D	63				BatchQC
1720060-02	iSM4500HBw pH	D	63				BatchQC
B[G1462-DUP1	QC		64				
1720029-05	i310.1w Tot Alk as CaCO3	J	65				
1720029-11	i310.1w Tot Alk as CaCO3	J	66				
1720053-01	ISM2510Bw EC	B	67				
1720053-01	iSM4500HBw pH	B	67				
1720060-01	i310.1w CO3	D	68				
1720060-01	i310.1w HCO3	D	68				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720060-03	i310.1w CO3	D	69				
1720060-03	i310.1w HCO3	D	69				
1720060-04	i310.1w CO3	D	70				
1720060-04	i310.1w HCO3	D	70				
1720064-01	i150.1w pH	D	71				
1720064-01	iSM2320Bw CO3	D	71				
1720064-01	iSM2320Bw HCO3	D	71				
1720064-01	iSM2320Bw OH	D	71				
1720064-01	ISM2510Bw EC	D	71				
1720066-01	i150.1w pH	D	72				
1720066-01	iSM2320Bw CO3	D	72				
1720066-01	iSM2320Bw HCO3	D	72				
1720066-01	iSM2320Bw OH	D	72				
1720066-01	ISM2510Bw EC	D	72				
1720068-01	i150.1w pH	D	73				
1720068-01	iSM2320Bw CO3	D	73				
1720068-01	iSM2320Bw HCO3	D	73				
1720068-01	iSM2320Bw OH	D	73				
1720068-01	ISM2510Bw EC	D	73				
B[G1463-BS1	QC		74				
B[G1463-BS2	QC		75				
B[G1463-BS3	QC		76				
B[G1463-BLK1	QC		77				
1720070-01	i120.1w EC	C	78				BatchQC
1720070-01	i150.1w pH	C	78				
1720070-01	i310.1w CO3	C	78				BatchQC
1720070-01	i310.1w HCO3	C	78				BatchQC
1720070-01	i310.1w OH	C	78				BatchQC
1720070-01	i310.1w Tot Alk as CaCO3	C	78				BatchQC
1720070-01	iSM2320Bw CO3	C	78				
1720070-01	iSM2320Bw CO3 Alk as CaCO3	C	78				BatchQC
1720070-01	iSM2320Bw HCO3	C	78				
1720070-01	iSM2320Bw HCO3 Alk as CaC(	C	78				BatchQC
1720070-01	iSM2320Bw OH	C	78				
1720070-01	iSM2320Bw OH Alk as CaCO3	C	78				BatchQC
1720070-01	iSM2320Bw Tot Alk as CaCO3	C	78				BatchQC
1720070-01	ISM2510Bw EC	C	78				
B[G1463-DUP1	QC		79				
1720079-01	i150.1w pH	I	80				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720079-01	iSM2320Bw CO3 Alk as CaCO3	I	80				
1720079-01	iSM2320Bw HCO3 Alk as CaC(	I	80				
1720079-01	iSM2320Bw OH Alk as CaCO3	I	80				
1720079-01	iSM2320Bw Tot Alk as CaCO3	I	80				
1720080-01	i150.1w pH	I	81				
1720080-01	iSM2320Bw CO3 Alk as CaCO3	I	81				
1720080-01	iSM2320Bw HCO3 Alk as CaC(	I	81				
1720080-01	iSM2320Bw OH Alk as CaCO3	I	81				
1720080-01	iSM2320Bw Tot Alk as CaCO3	I	81				
1720082-01	i120.1w EC	A	82				
1720084-01	i120.1w EC	D	83				
1720084-01	i150.1w pH	D	83				
1720084-01	iSM2320Bw CO3	D	83				
1720084-01	iSM2320Bw HCO3	D	83				
1720084-01	iSM2320Bw OH	D	83				
1720109-01	i150.1w pH	A	84				
1720109-01	i310.1w CO3	A	84				
1720109-01	i310.1w HCO3	A	84				
1720109-01	i310.1w OH	A	84				
1720121-01	i310.1w Tot Alk as CaCO3	S	85				
1720121-03	i310.1w Tot Alk as CaCO3	G	86				
1720121-06	i310.1w Tot Alk as CaCO3	G	87				
1720121-07	i310.1w Tot Alk as CaCO3	G	88				
B[G1464-BS3	QC		89				
B[G1464-BLK1	QC		90				
1720121-08	i310.1w Tot Alk as CaCO3	G	91				
B[G1464-DUP1	QC		92				
1720121-09	i310.1w Tot Alk as CaCO3	G	93				
1720121-10	i310.1w Tot Alk as CaCO3	G	94				
1720121-11	i310.1w Tot Alk as CaCO3	G	95				
1720121-12	i310.1w Tot Alk as CaCO3	G	96				
1720121-13	i310.1w Tot Alk as CaCO3	G	97				
1720121-14	i310.1w Tot Alk as CaCO3	G	98				
1720122-03	i310.1w Tot Alk as CaCO3	J	99				
1720122-04	i310.1w Tot Alk as CaCO3	J	100				
1720122-05	i310.1w Tot Alk as CaCO3	G	101				
B[G2098-BS1	QC		102				
B[G2098-BS2	QC		103				
B[G2098-BS3	QC		104				

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[G2098-BLK1	QC		105				
1720122-06	i310.1w Tot Alk as CaCO3	G	106				
1720122-06	iSM2320Bw CO3 Alk as CaCO3	G	106				BatchQC
1720122-06	iSM2320Bw HCO3 Alk as CaC(	G	106				BatchQC
1720122-06	ISM2510Bw EC	G	106				BatchQC
B[G2098-DUP1	QC		107				
1720147-01	iSM2320Bw CO3 Alk as CaCO3	A	108				
1720147-01	iSM2320Bw HCO3 Alk as CaC(	A	108				
1720147-01	ISM2510Bw EC	A	108				
1720147-02	iSM2320Bw CO3 Alk as CaCO3	A	109				
1720147-02	iSM2320Bw HCO3 Alk as CaC(	A	109				
1720147-02	ISM2510Bw EC	A	109				
1720147-03	iSM2320Bw CO3 Alk as CaCO3	A	110				
1720147-03	iSM2320Bw HCO3 Alk as CaC(	A	110				
1720147-03	ISM2510Bw EC	A	110				
1720147-04	iSM2320Bw CO3 Alk as CaCO3	A	111				
1720147-04	iSM2320Bw HCO3 Alk as CaC(	A	111				
1720147-04	ISM2510Bw EC	A	111				
1720147-05	iSM2320Bw CO3 Alk as CaCO3	A	112				
1720147-05	iSM2320Bw HCO3 Alk as CaC(	A	112				
1720147-05	ISM2510Bw EC	A	112				
1720147-06	iSM2320Bw CO3 Alk as CaCO3	A	113				
1720147-06	iSM2320Bw HCO3 Alk as CaC(	A	113				
1720147-06	ISM2510Bw EC	A	113				
1720147-07	iSM2320Bw CO3 Alk as CaCO3	A	114				
1720147-07	iSM2320Bw HCO3 Alk as CaC(	A	114				
1720147-07	ISM2510Bw EC	A	114				
1720147-08	iSM2320Bw CO3 Alk as CaCO3	A	115				
1720147-08	iSM2320Bw HCO3 Alk as CaC(	A	115				
1720147-08	ISM2510Bw EC	A	115				
1720147-09	iSM2320Bw CO3 Alk as CaCO3	A	116				
1720147-09	iSM2320Bw HCO3 Alk as CaC(	A	116				
1720147-09	ISM2510Bw EC	A	116				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported:	8/21/2017 11:47:01AM
Project:	Alameda
Project Number:	5023146096
Project Manager:	Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG:	**17-20018**
Class:	**WET**
Method:	**EPA-353.2**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
26MW03_170720	1720018-01
26MW08_170720	1720018-02
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-18_170720	1720018-09
M14-20D_170720	1720018-10
M14-21_170720	1720018-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: KONE-1

Analyte	DL	LOD	LOQ	Units
Nitrite as N	0.01	0.03	0.05	mg/L
Nitrite as NO2	0.04	0.1	0.17	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

26MW03_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-01
File ID: 170721 0719 NO2-108
Sampled: 07/20/17 13:50
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:32
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02
File ID: 170721 0719 NO2-109
Sampled: 07/20/17 13:25
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:32
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID: 170721 0719 NO2-158
Sampled: 07/20/17 08:35
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 12:12
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID: 170721 0719 NO2-113
Sampled: 07/20/17 10:55
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:37
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-09S_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-06
File ID: 170721 0719 NO2-114
Sampled: 07/20/17 12:35
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:37
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID: 170721 0719 NO2-104
Sampled: 07/20/17 09:40
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:32
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID: 170721 0719 NO2-115
Sampled: 07/20/17 13:30
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:37
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID: 170721 0719 NO2-116
Sampled: 07/20/17 12:00
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:37
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID: 170721 0719 NO2-161
Sampled: 07/20/17 11:15
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 12:16
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID: 170721 0719 NO2-118
Sampled: 07/20/17 10:20
Prepared: 07/21/17 07:19
Analyzed: 07/21/17 11:37
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1937
Sequence: 1713142
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1937
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW03_170720	1720018-01	170721 0719 NO2-108	07/21/17 07:19	
26MW08_170720	1720018-02	170721 0719 NO2-109	07/21/17 07:19	
M14-06_170720	1720018-04	170721 0719 NO2-158	07/21/17 07:19	
M14-09D_170720	1720018-05	170721 0719 NO2-113	07/21/17 07:19	
M14-09S_170720	1720018-06	170721 0719 NO2-114	07/21/17 07:19	
M14-14_170720	1720018-07	170721 0719 NO2-104	07/21/17 07:19	
M14-17R_170720	1720018-08	170721 0719 NO2-115	07/21/17 07:19	
M14-18_170720	1720018-09	170721 0719 NO2-116	07/21/17 07:19	
M14-20D_170720	1720018-10	170721 0719 NO2-161	07/21/17 07:19	
M14-21_170720	1720018-11	170721 0719 NO2-118	07/21/17 07:19	
Blank	B[G1937-BLK1	170721 0719 NO2-103	07/21/17 07:19	
LCS	B[G1937-BS1	170721 0719 NO2-102	07/21/17 07:19	
M14-14_170720	B[G1937-DUP1	170721 0719 NO2-105	07/21/17 07:19	
M14-14_170720	B[G1937-MS1	170721 0719 NO2-106	07/21/17 07:19	
M14-14_170720	B[G1937-MSD1	170721 0719 NO2-107	07/21/17 07:19	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-353.2

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1937-BLK1	File ID:	170721 0719 NO2-103
Prepared:	07/21/17 07:19	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/21/17 11:32	Instrument:	KONE-1		
Batch:	B[G1937	Sequence:	1713142	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

M14-14_170720

DUPLICATES
EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1937
Preparation: No Prep
Source Sample Name: M14-14_170720

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G1937-DUP1
Lab Source ID: 1720018-07
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Nitrite as N	10	0.0060870		ND				EPA-353.2
Nitrite as NO2	10	0.019993		ND				EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-353.2

M14-14 170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1937
Laboratory ID: B[G1937-MS1
Preparation: No Prep
Initial/Final: 19 ml / 20 ml
Source Sample Number: 1720018-07

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Nitrite as N	0.52632	ND	0.53347	101	90 - 110
Nitrite as NO2	1.7289	ND	1.7522	101	90 - 110

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Nitrite as N	0.52632	0.53482	102	0.253	10	90 - 110
Nitrite as NO2	1.7289	1.7566	102	0.253	10	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1937
Laboratory ID: B[G1937-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Nitrite as N	0.50000	0.50637	101	90 - 110
Nitrite as NO2	1.6425	1.6632	101	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713142
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713142-CCV1	170721 0719 NO2-001	07/21/17 07:19
Calibration Blank	1713142-CCB1	170721 0719 NO2-002	07/21/17 07:19
Calibration Check	1713142-CCV2	170721 0719 NO2-011	07/21/17 07:20
Calibration Blank	1713142-CCB2	170721 0719 NO2-012	07/21/17 07:20
Calibration Check	1713142-CCV3	170721 0719 NO2-021	07/21/17 07:37
Calibration Blank	1713142-CCB3	170721 0719 NO2-022	07/21/17 07:37
Calibration Check	1713142-CCV4	170721 0719 NO2-027	07/21/17 07:46
Calibration Blank	1713142-CCB4	170721 0719 NO2-028	07/21/17 07:46
Calibration Check	1713142-CCV5	170721 0719 NO2-033	07/21/17 07:57
Calibration Blank	1713142-CCB5	170721 0719 NO2-034	07/21/17 07:57
Calibration Check	1713142-CCV6	170721 0719 NO2-037	07/21/17 08:05
Calibration Blank	1713142-CCB6	170721 0719 NO2-038	07/21/17 08:05
Calibration Check	1713142-CCV7	170721 0719 NO2-039	07/21/17 08:19
Calibration Blank	1713142-CCB7	170721 0719 NO2-040	07/21/17 08:19
Calibration Check	1713142-CCV8	170721 0719 NO2-043	07/21/17 08:21
Calibration Blank	1713142-CCB8	170721 0719 NO2-044	07/21/17 08:21
Calibration Check	1713142-CCV9	170721 0719 NO2-045	07/21/17 08:32
Calibration Blank	1713142-CCB9	170721 0719 NO2-046	07/21/17 08:32
Calibration Check	1713142-CCVA	170721 0719 NO2-049	07/21/17 08:34
Calibration Blank	1713142-CCBA	170721 0719 NO2-050	07/21/17 08:34
Calibration Check	1713142-CCVB	170721 0719 NO2-053	07/21/17 08:44
Calibration Blank	1713142-CCBB	170721 0719 NO2-054	07/21/17 08:44
Calibration Check	1713142-CCVC	170721 0719 NO2-055	07/21/17 08:55
Calibration Blank	1713142-CCBC	170721 0719 NO2-056	07/21/17 08:55
Calibration Check	1713142-CCVD	170721 0719 NO2-061	07/21/17 09:09
Calibration Blank	1713142-CCBD	170721 0719 NO2-062	07/21/17 09:09

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713142
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713142-CCVE	170721 0719 NO2-065	07/21/17 09:11
Calibration Blank	1713142-CCBE	170721 0719 NO2-066	07/21/17 09:11
Calibration Check	1713142-CCVF	170721 0719 NO2-067	07/21/17 09:29
Calibration Blank	1713142-CCBF	170721 0719 NO2-068	07/21/17 09:29
Calibration Check	1713142-CCVG	170721 0719 NO2-079	07/21/17 09:35
Calibration Blank	1713142-CCBG	170721 0719 NO2-080	07/21/17 09:35
Calibration Check	1713142-CCVH	170721 0719 NO2-091	07/21/17 09:36
Calibration Blank	1713142-CCBH	170721 0719 NO2-092	07/21/17 09:36
Calibration Check	1713142-CCVI	170721 0719 NO2-096	07/21/17 09:45
Calibration Blank	1713142-CCBI	170721 0719 NO2-097	07/21/17 09:45
Calibration Check	1713142-CCVJ	170721 0719 NO2-098	07/21/17 11:32
Calibration Blank	1713142-CCBJ	170721 0719 NO2-099	07/21/17 11:32
LCS	B[G1937-BS1	170721 0719 NO2-102	07/21/17 11:32
Blank	B[G1937-BLK1	170721 0719 NO2-103	07/21/17 11:32
M14-14_170720	1720018-07	170721 0719 NO2-104	07/21/17 11:32
M14-14_170720	B[G1937-DUP1	170721 0719 NO2-105	07/21/17 11:32
M14-14_170720	B[G1937-MS1	170721 0719 NO2-106	07/21/17 11:32
M14-14_170720	B[G1937-MSD1	170721 0719 NO2-107	07/21/17 11:32
26MW03_170720	1720018-01	170721 0719 NO2-108	07/21/17 11:32
26MW08_170720	1720018-02	170721 0719 NO2-109	07/21/17 11:32
Calibration Check	1713142-CCVK	170721 0719 NO2-110	07/21/17 11:37
Calibration Blank	1713142-CCBK	170721 0719 NO2-111	07/21/17 11:37
M14-09D_170720	1720018-05	170721 0719 NO2-113	07/21/17 11:37
M14-09S_170720	1720018-06	170721 0719 NO2-114	07/21/17 11:37
M14-17R_170720	1720018-08	170721 0719 NO2-115	07/21/17 11:37
M14-18_170720	1720018-09	170721 0719 NO2-116	07/21/17 11:37

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713142
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
M14-21_170720	1720018-11	170721 0719 NO2-118	07/21/17 11:37
Calibration Check	1713142-CCVL	170721 0719 NO2-122	07/21/17 11:43
Calibration Blank	1713142-CCBL	170721 0719 NO2-123	07/21/17 11:43
Calibration Check	1713142-CCVM	170721 0719 NO2-134	07/21/17 11:48
Calibration Blank	1713142-CCBM	170721 0719 NO2-135	07/21/17 11:48
Calibration Check	1713142-CCVN	170721 0719 NO2-146	07/21/17 11:52
Calibration Blank	1713142-CCBN	170721 0719 NO2-147	07/21/17 11:52
Calibration Check	1713142-CCVO	170721 0719 NO2-151	07/21/17 11:55
Calibration Blank	1713142-CCBO	170721 0719 NO2-152	07/21/17 11:55
Calibration Check	1713142-CCVP	170721 0719 NO2-156	07/21/17 12:06
Calibration Blank	1713142-CCBP	170721 0719 NO2-157	07/21/17 12:06
M14-06_170720	1720018-04	170721 0719 NO2-158	07/21/17 12:12
Calibration Check	1713142-CCVQ	170721 0719 NO2-159	07/21/17 12:14
Calibration Blank	1713142-CCBQ	170721 0719 NO2-160	07/21/17 12:15
M14-20D_170720	1720018-10	170721 0719 NO2-161	07/21/17 12:16
Calibration Check	1713142-CCVR	170721 0719 NO2-162	07/21/17 12:18
Calibration Blank	1713142-CCBR	170721 0719 NO2-163	07/21/17 12:18
Calibration Check	1713142-CCVS	170721 0719 NO2-164	07/21/17 16:02
Calibration Blank	1713142-CCBS	170721 0719 NO2-165	07/21/17 16:02
Calibration Check	1713142-CCVT	170721 0719 NO2-172	07/21/17 16:03
Calibration Blank	1713142-CCBT	170721 0719 NO2-173	07/21/17 16:03

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1713142
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713142-CCB1	Nitrite as N	0.0026400	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0086711	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB2	Nitrite as N	0.0020310	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0066708	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB3	Nitrite as N	0.0023450	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0077022	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB4	Nitrite as N	0.0022170	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0072817	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB5	Nitrite as N	0.0012780	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0041976	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB6	Nitrite as N	0.0021830	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0071701	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB7	Nitrite as N	0.0021470	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0070518	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB8	Nitrite as N	0.0021320	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0070026	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCB9	Nitrite as N	0.0018960	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0062274	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBA	Nitrite as N	0.0013850	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0045490	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBB	Nitrite as N	0.0019300	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.0063391	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBC	Nitrite as N	0.0033270	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.010928	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBD	Nitrite as N	0.0039540	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.012987	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBE	Nitrite as N	0.0038010	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.012484	0.040		0.17	mg/L	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1713142
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713142-CCBF	Nitrite as N	0.0059550	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.019559	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBG	Nitrite as N	0.0066550	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.021858	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBH	Nitrite as N	0.0059460	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.019530	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBI	Nitrite as N	0.0055260	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.018150	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBJ	Nitrite as N	0.0050000	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.016422	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBK	Nitrite as N	0.0048410	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015900	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBL	Nitrite as N	0.0048170	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015821	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBM	Nitrite as N	0.0047900	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015733	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBN	Nitrite as N	0.0042210	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.013864	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBO	Nitrite as N	0.0044990	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.014777	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBP	Nitrite as N	0.0046890	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015401	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBQ	Nitrite as N	0.0040900	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.013434	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBR	Nitrite as N	0.0042460	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.013946	0.040		0.17	mg/L	U	EPA-353.2
1713142-CCBS	Nitrite as N	0.0043930	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.014429	0.040		0.17	mg/L	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1713142
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713142-CCBT	Nitrite as N	0.0047210	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.015506	0.040		0.17	mg/L	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713142

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713142-CCV1	Nitrite as N	0.50000	0.50224	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6496	100	mg/L	EPA-353.2
1713142-CCV2	Nitrite as N	0.50000	0.50212	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6492	100	mg/L	EPA-353.2
1713142-CCV3	Nitrite as N	0.50000	0.49834	99.7	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6368	99.7	mg/L	EPA-353.2
1713142-CCV4	Nitrite as N	0.50000	0.50182	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6482	100	mg/L	EPA-353.2
1713142-CCV5	Nitrite as N	0.50000	0.51443	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6896	103	mg/L	EPA-353.2
1713142-CCV6	Nitrite as N	0.50000	0.49901	99.8	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6390	99.8	mg/L	EPA-353.2
1713142-CCV7	Nitrite as N	0.50000	0.50114	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6460	100	mg/L	EPA-353.2
1713142-CCV8	Nitrite as N	0.50000	0.50546	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6602	101	mg/L	EPA-353.2
1713142-CCV9	Nitrite as N	0.50000	0.50271	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6512	101	mg/L	EPA-353.2
1713142-CCVA	Nitrite as N	0.50000	0.50329	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6531	101	mg/L	EPA-353.2
1713142-CCVB	Nitrite as N	0.50000	0.50175	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6480	100	mg/L	EPA-353.2
1713142-CCVC	Nitrite as N	0.50000	0.50408	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6556	101	mg/L	EPA-353.2
1713142-CCVD	Nitrite as N	0.50000	0.50626	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6628	101	mg/L	EPA-353.2
1713142-CCVE	Nitrite as N	0.50000	0.50325	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6529	101	mg/L	EPA-353.2
1713142-CCVF	Nitrite as N	0.50000	0.50742	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6666	101	mg/L	EPA-353.2
1713142-CCVG	Nitrite as N	0.50000	0.50818	102	mg/L	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713142

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713142-CCVG	Nitrite as NO2	1.6425	1.6691	102	mg/L	EPA-353.2
1713142-CCVH	Nitrite as N	0.50000	0.51128	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6793	102	mg/L	EPA-353.2
1713142-CCVI	Nitrite as N	0.50000	0.51247	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6832	102	mg/L	EPA-353.2
1713142-CCVJ	Nitrite as N	0.50000	0.51030	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6761	102	mg/L	EPA-353.2
1713142-CCVK	Nitrite as N	0.50000	0.51370	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6873	103	mg/L	EPA-353.2
1713142-CCVL	Nitrite as N	0.50000	0.50901	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6718	102	mg/L	EPA-353.2
1713142-CCVM	Nitrite as N	0.50000	0.50808	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6688	102	mg/L	EPA-353.2
1713142-CCVN	Nitrite as N	0.50000	0.50567	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6609	101	mg/L	EPA-353.2
1713142-CCVO	Nitrite as N	0.50000	0.50941	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6732	102	mg/L	EPA-353.2
1713142-CCVP	Nitrite as N	0.50000	0.50897	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6717	102	mg/L	EPA-353.2
1713142-CCVQ	Nitrite as N	0.50000	0.51669	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6971	103	mg/L	EPA-353.2
1713142-CCVR	Nitrite as N	0.50000	0.50752	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6669	101	mg/L	EPA-353.2
1713142-CCVS	Nitrite as N	0.50000	0.49707	99.4	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6326	99.4	mg/L	EPA-353.2
1713142-CCVT	Nitrite as N	0.50000	0.49306	98.6	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6194	98.6	mg/L	EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/21/17 07:19	0.90	2.00	07/21/17 11:32	0.90	2.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/21/17 07:19	0.92	2.00	07/21/17 11:32	0.92	2.00	
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/21/17 07:19	1.15	2.00	07/21/17 12:12	1.15	2.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/21/17 07:19	1.03	2.00	07/21/17 11:37	1.03	2.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/21/17 07:19	0.96	2.00	07/21/17 11:37	0.96	2.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/21/17 07:19	1.08	2.00	07/21/17 11:32	1.08	2.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/21/17 07:19	0.92	2.00	07/21/17 11:37	0.92	2.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/21/17 07:19	0.98	2.00	07/21/17 11:37	0.98	2.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/21/17 07:19	1.04	2.00	07/21/17 12:16	1.04	2.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/21/17 07:19	1.05	2.00	07/21/17 11:37	1.05	2.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument KONE-1

Raw Data - Analytical Runs

Test results Aquakem 7.2AQ1 Page: 1

Laboratory
Analyzer User

24.07.2017 07:19

Test: NO2

Sample Id	Result	Dil. 1 +	Response		Errors
CCV-NO2	0.50224	0.0	0.267		
CCB-NO2	0.00264	0.0	0.005		
B1N-BS1	0.50128	0.0	0.266		
B1N-BLK1	0.00355	0.0	0.005		
1719985-01	0.06958	0.0	0.040		
1719985-03	0.35692	0.0	0.190		
1719985-07	0.00820	0.0	0.008		
1719985-09	0.00216	0.0	0.004		
1719985-10	0.00570	0.0	0.006		
1719985-11	0.00359	0.0	0.005		
CCV-NO2	0.50212	0.0	0.266		
CCB-NO2	0.00203	0.0	0.004		
CCV-NO2	0.49949	0.0	0.265		
CCB-NO2	0.02775	0.0	0.018		Rule 1 violated
1719985-01	0.06879	0.0	0.039		
1719985-01	0.06956	0.0	0.040		
1719985-03	0.00429	0.0	0.006		
1719985-03	0.00523	0.0	0.006		
1719985-07	0.00959	0.0	0.008	R	
B1N-DUP1	0.00435	0.0	0.006	R	
B1N-MS1	0.00833	0.0	0.008	R	
B1N-MSD1	0.50491	0.0	0.268	R	
CCV-NO2	0.49834	0.0	0.264		
CCB-NO2	0.00235	0.0	0.004		
1719985-07	0.00485	0.0	0.006	R	
B1N-DUP1	0.00155	0.0	0.004	R	
B1N-MS1	0.00671	0.0	0.007	R	
B1N-MSD1	0.50806	0.0	0.270	R	
CCV-NO2	0.50182	0.0	0.266		
CCB-NO2	0.00222	0.0	0.004		
1719985-07	0.00621	0.0	0.007		
B1N-DUP1	0.00199	0.0	0.004		
B1N-MS1	0.00667	0.0	0.007		
B1N-MSD1	0.50651	0.0	0.269		
CCV-NO2	0.51443	0.0	0.273		
CCB-NO2	0.00128	0.0	0.004		
1719985-11	0.00036	0.0	0.003		
B1N-DUP1	0.00209	0.0	0.004		
CCV-NO2	0.49901	0.0	0.265		
CCB-NO2	0.00218	0.0	0.004		
CCV-NO2	0.50114	0.0	0.266		
CCB-NO2	0.00215	0.0	0.004		
1719985-11	0.00107	0.0	0.004		
B1N-DUP1	0.00331	0.0	0.005		
CCV-NO2	0.50546	0.0	0.268		
CCB-NO2	0.00213	0.0	0.004		
CCV-NO2	0.50271	0.0	0.267		
CCB-NO2	0.00190	0.0	0.004		
B1N-MS1	0.03497	0.0	0.022		
B1N-MSD1	0.50653	0.0	0.269		
CCV-NO2	0.50329	0.0	0.267		
CCB-NO2	0.00139	0.0	0.004		
B1N-MS1	0.00679	0.0	0.007		
B1N-MSD1	0.50688	0.0	0.269		
CCV-NO2	0.50175	0.0	0.266		
CCB-NO2	0.00193	0.0	0.004		
CCV-NO2	0.50407	0.0	0.267		
CCB-NO2	0.00333	0.0	0.005		

Laboratory
Analyzer User

24.07.2017 07:19

Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
B1N-MS1	0.00839	0.0	0.008	
B1N-MSD1	0.50508	0.0	0.268	
CCV-NO2	0.50307	0.0	0.267	
CCB-NO2	0.01382	0.0	0.011	Rule 1 violated
CCV-NO2	0.50626	0.0	0.269	
CCB-NO2	0.00395	0.0	0.005	
B1N-MS1	0.50101	0.0	0.266	
B1N-MSD1	0.51275	0.0	0.272	
CCV-NO2	0.50325	0.0	0.267	
CCB-NO2	0.00380	0.0	0.005	
CCV-NO2	0.50741	0.0	0.269	
CCB-NO2	0.00596	0.0	0.006	
B2N-BS1	0.50226	0.0	0.267	
B2N-BLK1	0.00784	0.0	0.007	
1719924-01	0.00814	0.0	0.008	
B2N-DUP1	0.00954	0.0	0.008	
B2N-MS1	0.50946	0.0	0.270	
B2N-MSD1	0.51059	0.0	0.271	
1719984-01	0.01134	0.0	0.009	
1719984-02	0.03111	0.0	0.020	
1719986-01	0.01458	0.0	0.011	
1719987-01	0.00750	0.0	0.007	
CCV-NO2	0.50818	0.0	0.270	
CCB-NO2	0.00666	0.0	0.007	
1719987-02	0.00734	0.0	0.007	
B3N-BS1	0.50189	0.0	0.266	
B3N-BLK1	0.00795	0.0	0.007	
1719993-02	0.13631	0.0	0.075	
B3N-DUP1	0.13591	0.0	0.075	
B3N-MS1	0.63175	0.0	0.334	
B3N-MSD1	0.63388	0.0	0.336	
1719992-01	1.35172	0.0	0.712	R Dil. limit high
1719992-02	2.04174	0.0	1.073	R Dil. limit high
1719992-03	2.13234	0.0	1.121	R Dil. limit high
CCV-NO2	0.51128	0.0	0.271	
CCB-NO2	0.00595	0.0	0.006	
1719992-01	1.32540	4.0	0.142	R
1719992-02	2.00571	4.0	0.214	R
1719992-03	2.11267	4.0	0.225	R
CCV-NO2	0.51247	0.0	0.272	
CCB-NO2	0.00553	0.0	0.006	
CCV-NO2	0.51030	0.0	0.271	
CCB-NO2	0.00500	0.0	0.006	
1719923-01	0.00518	0.0	0.006	
1719923-02	0.00473	0.0	0.006	
B4N-BS1	0.50637	0.0	0.269	
B4N-BLK1	0.00555	0.0	0.006	
1720018-07	0.00609	0.0	0.006	
B4N-DUP1	0.00631	0.0	0.007	
B4N-MS1	0.50679	0.0	0.269	
B4N-MSD1	0.50808	0.0	0.270	
1720018-01	0.00305	0.0	0.005	
1720018-02	0.00549	0.0	0.006	
CCV-NO2	0.51370	0.0	0.273	
CCB-NO2	0.00484	0.0	0.006	
1720018-04	-0.00418	0.0	0.001	
1720018-05	0.00607	0.0	0.006	
1720018-06	0.00752	0.0	0.007	

Laboratory
Analyzer User

24.07.2017 07:19

Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
1720018-08	-0.00039	0.0	0.003	
1720018-09	0.00219	0.0	0.004	
1720018-10	-0.01548	0.0	-0.005	
1720018-11	0.00463	0.0	0.006	
B5N-BS1	0.51145	0.0	0.271	
B5N-BLK1	0.00500	0.0	0.006	
1720019-01	0.00866	0.0	0.008	
CCV-NO2	0.50901	0.0	0.270	
CCB-NO2	0.00482	0.0	0.006	
B5N-DUP1	0.00785	0.0	0.007	
B5N-MS1	0.50710	0.0	0.269	
B5N-MSD1	0.50684	0.0	0.269	
1720019-02	0.00546	0.0	0.006	
1720019-10	0.03643	0.0	0.022	
1720019-12	0.00816	0.0	0.008	
1720019-13	0.00530	0.0	0.006	
1720019-14	0.00513	0.0	0.006	
1720019-15	0.00451	0.0	0.006	
1720019-16	0.00787	0.0	0.007	
CCV-NO2	0.50809	0.0	0.270	
CCB-NO2	0.00479	0.0	0.006	
B6N-BS1	0.51531	0.0	0.273	
B6N-BLK1	0.00505	0.0	0.006	
1720021-01	0.00889	0.0	0.008	
B6N-DUP1	0.00894	0.0	0.008	
B6N-MS1	0.51404	0.0	0.273	
B6N-MSD1	0.51127	0.0	0.271	
1720021-02	0.00622	0.0	0.007	
1720021-04	0.03552	0.0	0.022	
1720021-05	0.00580	0.0	0.006	
1720021-06	0.00628	0.0	0.007	
CCV-NO2	0.50567	0.0	0.268	
CCB-NO2	0.00422	0.0	0.005	
1720021-07	0.39596	0.0	0.211	
1720021-08	0.00473	0.0	0.006	
1720021-09	0.00723	0.0	0.007	
CCV-NO2	0.50941	0.0	0.270	
CCB-NO2	0.00450	0.0	0.006	
1720018-04	-0.02617	0.0	-0.010	
1720018-04	-0.02454	0.0	-0.010	
1720018-10	-0.05305	0.0	-0.025	
1720018-10	-0.05048	0.0	-0.023	
1720021-07	0.00422	0.0	0.005	
1720021-07	0.00454	0.0	0.006	
CCV-NO2	0.50897	0.0	0.270	
CCB-NO2	0.00469	0.0	0.006	
1720018-04	0.01271	0.0	0.010	
1720018-04	0.00925	0.0	0.008	
CCV-NO2	0.51669	0.0	0.274	
CCB-NO2	0.00409	0.0	0.005	
1720018-10	0.00431	0.0	0.006	
1720018-10	0.00411	0.0	0.005	
CCV-NO2	0.50752	0.0	0.269	
CCB-NO2	0.00425	0.0	0.005	
CCB-NO2	-	0.0	-	Aut. rejected, Batch inco
CCV-NO2	-	0.0	-	Aut. rejected, Batch inco
CCV-NO2	0.49707	0.0	0.264	
CCB-NO2	0.00439	0.0	0.006	

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Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
1720062-01	0.00496	0.0	0.006	
1720062-02	0.00485	0.0	0.006	
1720064-01	0.02117	0.0	0.014	
1720066-01	0.00438	0.0	0.006	
1720068-01	0.00451	0.0	0.006	
1720070-01	0.00812	0.0	0.008	
CCV-NO2	0.49306	0.0	0.262	
CCB-NO2	0.00472	0.0	0.006	
CCV-NO2	0.51449	0.0	0.273	
CCB-NO2	0.00873	0.0	0.008	
B7N-BS1	0.49754	0.0	0.264	
B7N-BLK1	0.00809	0.0	0.008	
1720121-01	0.00957	0.0	0.008	
B7N-DUP1	0.00959	0.0	0.008	
B7N-MS1	0.51219	0.0	0.272	
B7N-MSD1	0.50571	0.0	0.268	
1720121-03	0.01020	0.0	0.009	
1720121-06	0.00912	0.0	0.008	
1720121-07	0.01599	0.0	0.012	
1720121-08	0.00843	0.0	0.008	
CCV-NO2	0.51542	0.0	0.273	
CCB-NO2	0.00954	0.0	0.008	
1720121-09	0.01223	0.0	0.010	
1720121-10	0.00930	0.0	0.008	
1720121-11	0.01054	0.0	0.009	
1720121-12	0.01158	0.0	0.009	
1720121-13	0.01002	0.0	0.009	
1720121-14	0.01345	0.0	0.010	
1720079-01	0.05889	0.0	0.034	
1720080-01	0.01392	0.0	0.011	
CCV-NO2	0.51019	0.0	0.271	
CCB-NO2	0.00860	0.0	0.008	
CCV-NO2	0.51390	0.0	0.273	
CCB-NO2	0.00980	0.0	0.008	
B7N-BS1	0.50171	0.0	0.266	
B7N-BLK1	0.00996	0.0	0.008	
1720121-01	0.00933	0.0	0.008	
B7N-DUP1	0.00990	0.0	0.008	
B7N-MS1	0.50819	0.0	0.270	
B7N-MSD1	0.50930	0.0	0.270	
1720121-03	0.01180	0.0	0.009	
1720121-06	0.01075	0.0	0.009	
1720121-07	0.01630	0.0	0.012	
1720121-08	0.00950	0.0	0.008	
CCV-NO2	0.52178	0.0	0.277	
CCB-NO2	0.00990	0.0	0.008	
1720121-09	0.01317	0.0	0.010	
1720121-10	0.01062	0.0	0.009	
1720121-11	0.00618	0.0	0.007	
1720121-12	0.00631	0.0	0.007	
1720121-13	0.01067	0.0	0.009	
1720121-14	0.01528	0.0	0.011	
1720079-01	0.06621	0.0	0.038	
1720080-01	0.01569	0.0	0.011	
CCV-NO2	0.51918	0.0	0.275	
CCB-NO2	0.01058	0.0	0.009	Rule 1 violated
CCV-NO2	0.51934	0.0	0.275	
CCB-NO2	0.00983	0.0	0.008	

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Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
B8N-BS1	0.51274	0.0	0.272	
B8N-BLK1	0.00917	0.0	0.008	
1720110-12	0.08819	0.0	0.049	
B8N-DUP1	0.08842	0.0	0.050	
B8N-MS1	0.58199	0.0	0.308	
B8N-MSD1	0.58293	0.0	0.309	
1720110-02	0.01110	0.0	0.009	
1720110-03	0.00981	0.0	0.008	
1720110-10	0.00985	0.0	0.008	
1720110-11	0.08378	0.0	0.047	
CCV-NO2	0.51921	0.0	0.275	
CCB-NO2	0.00934	0.0	0.008	
1720122-03	0.00784	0.0	0.007	
1720122-04	0.00967	0.0	0.008	
1720122-05	0.00913	0.0	0.008	
1720122-06	0.00932	0.0	0.008	
CCV-NO2	0.52268	0.0	0.277	
CCB-NO2	0.00927	0.0	0.008	
CCV-NO2	0.52315	0.0	0.277	
CCB-NO2	0.00976	0.0	0.008	
B8N-BS1	0.50683	0.0	0.269	
B8N-BLK1	0.01022	0.0	0.009	
1720110-12	0.08885	0.0	0.050	
B8N-DUP1	0.08977	0.0	0.050	
B8N-MS1	0.58424	0.0	0.309	
B8N-MSD1	0.57967	0.0	0.307	
1720110-02	0.01135	0.0	0.009	
1720110-03	0.01011	0.0	0.009	
1720110-10	0.00945	0.0	0.008	
1720110-11	0.08353	0.0	0.047	
CCV-NO2	0.51923	0.0	0.275	
CCB-NO2	0.00943	0.0	0.008	
1720122-03	0.00920	0.0	0.008	
1720122-04	0.00681	0.0	0.007	
1720122-05	0.00833	0.0	0.008	
1720122-06	0.01048	0.0	0.009	
CCV-NO2	0.52520	0.0	0.279	
CCB-NO2	0.00950	0.0	0.008	
CCV-NO2	0.50114	0.0	0.266	
CCB-NO2	0.00795	0.0	0.007	
B9N-BS1	0.50560	0.0	0.268	
B9N-BLK1	0.00854	0.0	0.008	
1720138-01	0.00925	0.0	0.008	
B9N-DUP1	0.00953	0.0	0.008	
B9N-MS1	0.49834	0.0	0.264	
B9N-MSD1	0.49906	0.0	0.265	
CCV-NO2	0.50517	0.0	0.268	
CCB-NO2	0.00852	0.0	0.008	

N	188
Mean	0.18112
SD	0.370418
CV%	204.51

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Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50224	21.07.2017 07:19		
CCB-NO2	0.00264	21.07.2017 07:19		
B1N-BS1	0.50128	21.07.2017 07:19		
B1N-BLK1	0.00355	21.07.2017 07:19		
1719985-01	0.06958	21.07.2017 07:19		
1719985-03	0.35692	21.07.2017 07:19		
1719985-07	0.00820	21.07.2017 07:19		
1719985-09	0.00216	21.07.2017 07:19		
1719985-10	0.00570	21.07.2017 07:19		
1719985-11	0.00359	21.07.2017 07:19		
CCV-NO2	0.50212	21.07.2017 07:20		
CCB-NO2	0.00203	21.07.2017 07:20		
CCV-NO2	0.49949	21.07.2017 07:35		
CCB-NO2	0.02775	21.07.2017 07:35		
1719985-01	0.06879	21.07.2017 07:35		
1719985-01	0.06956	21.07.2017 07:35		
1719985-03	0.00429	21.07.2017 07:35		
1719985-03	0.00523	21.07.2017 07:35		
1719985-07	_____	-	R	
B1N-DUP1	_____	-	R	
B1N-MS1	_____	-	R	
B1N-MSD1	_____	-	R	
CCV-NO2	0.49834	21.07.2017 07:37		
CCB-NO2	0.00235	21.07.2017 07:37		
1719985-07	0.00485	21.07.2017 07:45	R	
B1N-DUP1	0.00155	21.07.2017 07:45	R	
B1N-MS1	0.00671	21.07.2017 07:45	R	
B1N-MSD1	0.50806	21.07.2017 07:45	R	
CCV-NO2	0.50182	21.07.2017 07:46		
CCB-NO2	0.00222	21.07.2017 07:46		
1719985-07	0.00621	21.07.2017 07:55		
B1N-DUP1	0.00199	21.07.2017 07:55		
B1N-MS1	0.00667	21.07.2017 07:55		
B1N-MSD1	0.50651	21.07.2017 07:55		
CCV-NO2	0.51443	21.07.2017 07:57		
CCB-NO2	0.00128	21.07.2017 07:57		
1719985-11	0.00036	21.07.2017 08:04		
B1N-DUP1	0.00209	21.07.2017 08:04		
CCV-NO2	0.49901	21.07.2017 08:05		
CCB-NO2	0.00218	21.07.2017 08:05		
CCV-NO2	0.50114	21.07.2017 08:19		
CCB-NO2	0.00215	21.07.2017 08:19		
1719985-11	0.00107	21.07.2017 08:19		
B1N-DUP1	0.00331	21.07.2017 08:19		
CCV-NO2	0.50546	21.07.2017 08:21		
CCB-NO2	0.00213	21.07.2017 08:21		
CCV-NO2	0.50271	21.07.2017 08:32		
CCB-NO2	0.00190	21.07.2017 08:32		
B1N-MS1	0.03497	21.07.2017 08:32		
B1N-MSD1	0.50653	21.07.2017 08:32		
CCV-NO2	0.50329	21.07.2017 08:34		
CCB-NO2	0.00139	21.07.2017 08:34		
B1N-MS1	0.00679	21.07.2017 08:42		
B1N-MSD1	0.50688	21.07.2017 08:42		
CCV-NO2	0.50175	21.07.2017 08:44		
CCB-NO2	0.00193	21.07.2017 08:44		

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Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50407	21.07.2017 08:55		
CCB-NO2	0.00333	21.07.2017 08:55		
B1N-MS1	0.00839	21.07.2017 08:55		
B1N-MSD1	0.50508	21.07.2017 08:55		
CCV-NO2	0.50307	21.07.2017 08:57		
CCB-NO2	0.01382	21.07.2017 08:57		
CCV-NO2	0.50626	21.07.2017 09:09		
CCB-NO2	0.00395	21.07.2017 09:09		
B1N-MS1	0.50101	21.07.2017 09:09		
B1N-MSD1	0.51275	21.07.2017 09:09		
CCV-NO2	0.50325	21.07.2017 09:11		
CCB-NO2	0.00380	21.07.2017 09:11		
CCV-NO2	0.50741	21.07.2017 09:29		
CCB-NO2	0.00596	21.07.2017 09:29		
B2N-BS1	0.50226	21.07.2017 09:29		
B2N-BLK1	0.00784	21.07.2017 09:29		
1719924-01	0.00814	21.07.2017 09:29		
B2N-DUP1	0.00954	21.07.2017 09:29		
B2N-MS1	0.50946	21.07.2017 09:29		
B2N-MSD1	0.51059	21.07.2017 09:29		
1719984-01	0.01134	21.07.2017 09:29		
1719984-02	0.03111	21.07.2017 09:29		
1719986-01	0.01458	21.07.2017 09:29		
1719987-01	0.00750	21.07.2017 09:29		
CCV-NO2	0.50818	21.07.2017 09:35		
CCB-NO2	0.00666	21.07.2017 09:35		
1719987-02	0.00734	21.07.2017 09:35		
B3N-BS1	0.50189	21.07.2017 09:35		
B3N-BLK1	0.00795	21.07.2017 09:35		
1719993-02	0.13631	21.07.2017 09:35		
B3N-DUP1	0.13591	21.07.2017 09:35		
B3N-MS1	0.63175	21.07.2017 09:35		
B3N-MSD1	0.63388	21.07.2017 09:35		
1719992-01	_____	-	R	
1719992-02	_____	-	R	
1719992-03	_____	-	R	
CCV-NO2	0.51128	21.07.2017 09:36		
CCB-NO2	0.00595	21.07.2017 09:36		
1719992-01	1.32540	21.07.2017 09:43	R	1+4.0
1719992-02	2.00571	21.07.2017 09:43	R	1+4.0
1719992-03	2.11267	21.07.2017 09:43	R	1+4.0
CCV-NO2	0.51247	21.07.2017 09:45		
CCB-NO2	0.00553	21.07.2017 09:45		
CCV-NO2	0.51030	21.07.2017 11:32		
CCB-NO2	0.00500	21.07.2017 11:32		
1719923-01	0.00518	21.07.2017 11:32		
1719923-02	0.00473	21.07.2017 11:32		
B4N-BS1	0.50637	21.07.2017 11:32		
B4N-BLK1	0.00555	21.07.2017 11:32		
1720018-07	0.00609	21.07.2017 11:32		
B4N-DUP1	0.00631	21.07.2017 11:32		
B4N-MS1	0.50679	21.07.2017 11:32		
B4N-MSD1	0.50808	21.07.2017 11:32		
1720018-01	0.00305	21.07.2017 11:32		
1720018-02	0.00549	21.07.2017 11:32		
CCV-NO2	0.51370	21.07.2017 11:37		

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Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCB-NO2	0.00484	21.07.2017 11:37		
1720018-04	-0.00418	21.07.2017 11:37		
1720018-05	0.00607	21.07.2017 11:37		
1720018-06	0.00752	21.07.2017 11:37		
1720018-08	-0.00039	21.07.2017 11:37		
1720018-09	0.00219	21.07.2017 11:37		
1720018-10	-0.01548	21.07.2017 11:37		
1720018-11	0.00463	21.07.2017 11:37		
B5N-BS1	0.51145	21.07.2017 11:37		
B5N-BLK1	0.00500	21.07.2017 11:37		
1720019-01	0.00866	21.07.2017 11:37		
CCV-NO2	0.50901	21.07.2017 11:43		
CCB-NO2	0.00482	21.07.2017 11:43		
B5N-DUP1	0.00785	21.07.2017 11:43		
B5N-MS1	0.50710	21.07.2017 11:43		
B5N-MSD1	0.50684	21.07.2017 11:43		
1720019-02	0.00546	21.07.2017 11:43		
1720019-10	0.03643	21.07.2017 11:43		
1720019-12	0.00816	21.07.2017 11:43		
1720019-13	0.00530	21.07.2017 11:43		
1720019-14	0.00513	21.07.2017 11:43		
1720019-15	0.00451	21.07.2017 11:43		
1720019-16	0.00787	21.07.2017 11:43		
CCV-NO2	0.50809	21.07.2017 11:48		
CCB-NO2	0.00479	21.07.2017 11:48		
B6N-BS1	0.51531	21.07.2017 11:48		
B6N-BLK1	0.00505	21.07.2017 11:49		
1720021-01	0.00889	21.07.2017 11:49		
B6N-DUP1	0.00894	21.07.2017 11:49		
B6N-MS1	0.51404	21.07.2017 11:49		
B6N-MSD1	0.51127	21.07.2017 11:49		
1720021-02	0.00622	21.07.2017 11:49		
1720021-04	0.03552	21.07.2017 11:49		
1720021-05	0.00580	21.07.2017 11:49		
1720021-06	0.00628	21.07.2017 11:49		
CCV-NO2	0.50567	21.07.2017 11:52		
CCB-NO2	0.00422	21.07.2017 11:52		
1720021-07	0.39596	21.07.2017 11:52		
1720021-08	0.00473	21.07.2017 11:52		
1720021-09	0.00723	21.07.2017 11:52		
CCV-NO2	0.50941	21.07.2017 11:55		
CCB-NO2	0.00450	21.07.2017 11:55		
1720018-04	-0.02617	21.07.2017 12:02		
1720018-04	-0.02454	21.07.2017 12:02		
1720018-10	-0.05305	21.07.2017 12:04		
1720018-10	-0.05048	21.07.2017 12:04		
1720021-07	0.00422	21.07.2017 12:04		
1720021-07	0.00454	21.07.2017 12:04		
CCV-NO2	0.50897	21.07.2017 12:06		
CCB-NO2	0.00469	21.07.2017 12:06		
1720018-04	0.01271	21.07.2017 12:12		
1720018-04	0.00925	21.07.2017 12:12		
CCV-NO2	0.51669	21.07.2017 12:14		
CCB-NO2	0.00409	21.07.2017 12:15		
1720018-10	0.00431	21.07.2017 12:16		
1720018-10	0.00411	21.07.2017 12:16		

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Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50752	21.07.2017 12:18		
CCB-NO2	0.00425	21.07.2017 12:18		
CCB-NO2	_____	-		
CCV-NO2	_____	-		
CCV-NO2	0.49707	21.07.2017 16:02		
CCB-NO2	0.00439	21.07.2017 16:02		
1720062-01	0.00496	21.07.2017 16:02		
1720062-02	0.00485	21.07.2017 16:02		
1720064-01	0.02117	21.07.2017 16:02		
1720066-01	0.00438	21.07.2017 16:02		
1720068-01	0.00451	21.07.2017 16:02		
1720070-01	0.00812	21.07.2017 16:02		
CCV-NO2	0.49306	21.07.2017 16:03		
CCB-NO2	0.00472	21.07.2017 16:03		
CCV-NO2	0.51449	21.07.2017 23:44		
CCB-NO2	0.00873	21.07.2017 23:44		
B7N-BS1	0.49754	21.07.2017 23:44		
B7N-BLK1	0.00809	21.07.2017 23:44		
1720121-01	0.00957	21.07.2017 23:44		
B7N-DUP1	0.00959	21.07.2017 23:44		
B7N-MS1	0.51219	21.07.2017 23:44		
B7N-MSD1	0.50571	21.07.2017 23:44		
1720121-03	0.01020	21.07.2017 23:44		
1720121-06	0.00912	21.07.2017 23:44		
1720121-07	0.01599	21.07.2017 23:44		
1720121-08	0.00843	21.07.2017 23:44		
CCV-NO2	0.51542	21.07.2017 23:49		
CCB-NO2	0.00954	21.07.2017 23:49		
1720121-09	0.01223	21.07.2017 23:49		
1720121-10	0.00930	21.07.2017 23:49		
1720121-11	0.01054	21.07.2017 23:49		
1720121-12	0.01158	21.07.2017 23:49		
1720121-13	0.01002	21.07.2017 23:49		
1720121-14	0.01345	21.07.2017 23:49		
1720079-01	0.05889	21.07.2017 23:49		
1720080-01	0.01392	21.07.2017 23:49		
CCV-NO2	0.51019	21.07.2017 23:50		
CCB-NO2	0.00860	21.07.2017 23:50		
CCV-NO2	0.51390	22.07.2017 00:04		
CCB-NO2	0.00980	22.07.2017 00:04		
B7N-BS1	0.50171	22.07.2017 00:04		
B7N-BLK1	0.00996	22.07.2017 00:04		
1720121-01	0.00933	22.07.2017 00:04		
B7N-DUP1	0.00990	22.07.2017 00:04		
B7N-MS1	0.50819	22.07.2017 00:04		
B7N-MSD1	0.50930	22.07.2017 00:04		
1720121-03	0.01180	22.07.2017 00:04		
1720121-06	0.01075	22.07.2017 00:04		
1720121-07	0.01630	22.07.2017 00:04		
1720121-08	0.00950	22.07.2017 00:04		
CCV-NO2	0.52178	22.07.2017 00:09		
CCB-NO2	0.00990	22.07.2017 00:09		
1720121-09	0.01317	22.07.2017 00:09		
1720121-10	0.01062	22.07.2017 00:09		
1720121-11	0.00618	22.07.2017 00:09		
1720121-12	0.00631	22.07.2017 00:09		

Laboratory
Analyzer User

Date : 24.07.2017
Time : 07:19

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
1720121-13	0.01067	22.07.2017 00:09		
1720121-14	0.01528	22.07.2017 00:09		
1720079-01	0.06621	22.07.2017 00:09		
1720080-01	0.01569	22.07.2017 00:09		
CCV-NO2	0.51918	22.07.2017 00:10		
CCB-NO2	0.01058	22.07.2017 00:10		
CCV-NO2	0.51934	22.07.2017 00:30		
CCB-NO2	0.00983	22.07.2017 00:30		
B8N-BS1	0.51274	22.07.2017 00:30		
B8N-BLK1	0.00917	22.07.2017 00:30		
1720110-12	0.08819	22.07.2017 00:30		
B8N-DUP1	0.08842	22.07.2017 00:30		
B8N-MS1	0.58199	22.07.2017 00:30		
B8N-MSD1	0.58293	22.07.2017 00:30		
1720110-02	0.01110	22.07.2017 00:30		
1720110-03	0.00981	22.07.2017 00:30		
1720110-10	0.00985	22.07.2017 00:30		
1720110-11	0.08378	22.07.2017 00:30		
CCV-NO2	0.51921	22.07.2017 00:34		
CCB-NO2	0.00934	22.07.2017 00:34		
1720122-03	0.00784	22.07.2017 00:34		
1720122-04	0.00967	22.07.2017 00:34		
1720122-05	0.00913	22.07.2017 00:34		
1720122-06	0.00932	22.07.2017 00:34		
CCV-NO2	0.52268	22.07.2017 00:37		
CCB-NO2	0.00927	22.07.2017 00:37		
CCV-NO2	0.52315	22.07.2017 00:56		
CCB-NO2	0.00976	22.07.2017 00:56		
B8N-BS1	0.50683	22.07.2017 00:56		
B8N-BLK1	0.01022	22.07.2017 00:56		
1720110-12	0.08885	22.07.2017 00:56		
B8N-DUP1	0.08977	22.07.2017 00:56		
B8N-MS1	0.58424	22.07.2017 00:56		
B8N-MSD1	0.57967	22.07.2017 00:56		
1720110-02	0.01135	22.07.2017 00:56		
1720110-03	0.01011	22.07.2017 00:56		
1720110-10	0.00945	22.07.2017 00:56		
1720110-11	0.08353	22.07.2017 00:56		
CCV-NO2	0.51923	22.07.2017 00:59		
CCB-NO2	0.00943	22.07.2017 00:59		
1720122-03	0.00920	22.07.2017 00:59		
1720122-04	0.00681	22.07.2017 00:59		
1720122-05	0.00833	22.07.2017 00:59		
1720122-06	0.01048	22.07.2017 00:59		
CCV-NO2	0.52520	22.07.2017 01:02		
CCB-NO2	0.00950	22.07.2017 01:02		
CCV-NO2	0.50114	22.07.2017 12:46		
CCB-NO2	0.00795	22.07.2017 12:46		
B9N-BS1	0.50560	22.07.2017 12:46		
B9N-BLK1	0.00854	22.07.2017 12:47		
1720138-01	0.00925	22.07.2017 12:47		
B9N-DUP1	0.00953	22.07.2017 12:47		
B9N-MS1	0.49834	22.07.2017 12:47		
B9N-MSD1	0.49906	22.07.2017 12:47		
CCV-NO2	0.50517	22.07.2017 12:48		
CCB-NO2	0.00852	22.07.2017 12:48		

Raw Data - Calibration Summary

Laboratory
Analyzer User

11.05.2017 10:15

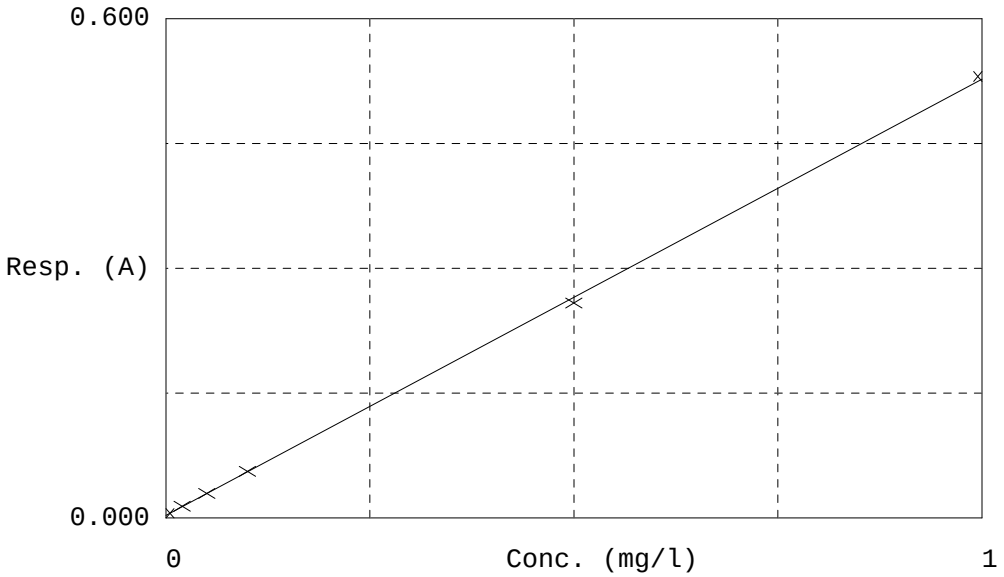
Test NO2

Accepted 11.05.2017 10:15

Factor 1.90791
Bias 0.00327

Coeff. of det. 0.999701

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	NO2-0	0.00553	0.00431	0.00000	
2	NO2-0.02	0.01421	0.02088	0.02000	
3	NO2-0.05	0.02971	0.05045	0.05000	
4	NO2-0.10	0.05629	0.10116	0.10000	
5	NO2-0.50	0.25838	0.48673	0.50000	
6	NO2-1.00	0.53080	1.00648	1.00000	
7	ICB-NO2(control	0.00546	0.00419	0.00000	
8	ICV-NO2(control	0.27245	0.51357	0.50000	

NO2 Laboratory
Analyzer User
Date : 11.05.2017
Time : 10:15

Last change date 04.02.2016 12:17
Tick length (sec) 7.0

Full name	Nitrite as N				
Online Name		Test In Use	YES		
Test type	Photometric		LOW	HIGH	
		Test limit	*	5.00000 mg/l	
Result unit	mg/l	Initial absorbance	-0.050	*	A
Number of Decim.	5	Dilution limit	*	1.000000 mg/l	
		Secondary dil 1+	0.0	4.0	
		Critical limit	*	*	mg/l
		Reflex test limit	*	*	mg/l
		Reflex test			

Acceptance	Manual	Reference class	LOW	HIGH	In Use
Dilution 1+	0.0				
Sample type	Water	Correction factor	1.00		
	Raw water	Correction bias	0.00	mg/l	
	Sewage				
Calibration type	Linear				
Curve direction	Ascending				
Repeat time (d)	0	Abs error (mA)	*		
Points/cal.	Single	Rel error (%)	*		
Acceptance	Manual				
Response limit (mA)	MIN	MAX			
	*	*			
Bias correction in use	NO				
Cd reduction	NO				
Type of Calibrators	Separate				
Calibrator	Conc.	Dil. ratio			
NO2-0	0.000	1+0.0			
NO2-0.02	0.020	1+0.0			
NO2-0.05	0.050	1+0.0			
NO2-0.10	0.100	1+0.0			
NO2-0.50	0.500	1+0.0			
NO2-1.00	1.000	1+0.0			
Manual QC in Use	YES	Routine QC in Use	YES		
Acceptance	Manual	Interval Requests	10		
		Additional condition	NO		

Control	Mean	SD	Control	Mean	SD
ICB-NO2	0.00	0.01	CCB-NO2	0.00	0.01
ICV-NO2	0.50	0.05	CCV-NO2	0.50	0.05

Rules in Use	1:1.0*SD	Rules in Use	1:1.0*SD
Blank	YES		
		Normal cuvette	
Sample		Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Dilution with	Water	Wash reagent	None

NO2 Laboratory
Analyzer User
Date : 11.05.2017
Time : 10:15

Reagent	NO2 Buffer	Volume (ul)	120
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Measurement	End point	Blank	
Resp. Min(A)	*	Resp. Max(A)	*
Reagent	NO2 color	Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Incubation		Time (sec)	360
Measurement	End point		
Wavelength (nm)	540 nm	Side wavel. (nm)	None
Meas. type	Fixed timing		

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1937

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water

Prepared using: Wet Chem - No Prep

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-01 D	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-02 D	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-04 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-05 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-06 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-07 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-08 S	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-09 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-10 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
1720018-11 G	i353.2wm NO2 as N	7/21/2017 7:19AM	RCC	20	20					
B[G1937-BLK1	QC	7/21/2017 7:19AM	RCC	20	20					
B[G1937-BS1	QC	7/21/2017 7:19AM	RCC	20	20	7F23021		1000		
B[G1937-DUP1	QC	7/21/2017 7:19AM	RCC	20	20		1720018-07			
B[G1937-MS1	QC	7/21/2017 7:19AM	RCC	19	20	7F23021	1720018-07	1000		
B[G1937-MSD1	QC	7/21/2017 7:19AM	RCC	19	20	7F23021	1720018-07	1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7F23021	PO4/NO2 SPIKE	DI WATER	6/23/2017 by Roxanne Cantorna	12/23/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713142

Instrument: KONE-1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713142-CCV1	QC		1		7E02060		
1713142-CCB1	QC		2				
B[G1933-BS1	QC		3				
B[G1933-BLK1	QC		4				
1719985-01	i353.2wm NO2 as N	D	5				
1719985-09	i353.2wm NO2 as N	D	6				
1719985-10	i353.2wm NO2 as N	D	7				
1719985-11	i353.2wm NO2 as N	D	8				
1713142-CCV2	QC		9		7E02060		
1713142-CCB2	QC		10				
1719985-03	i353.2wm NO2 as N	D	11				
1713142-CCV3	QC		12		7E02060		
1713142-CCB3	QC		13				
1719985-07	i353.2wm NO2 as N	D	14				
B[G1933-DUP1	QC		15				
1713142-CCV4	QC		16		7E02060		
1713142-CCB4	QC		17				
1713142-CCV5	QC		18		7E02060		
1713142-CCB5	QC		19				
1713142-CCV6	QC		20		7E02060		
1713142-CCB6	QC		21				
1713142-CCV7	QC		22		7E02060		
1713142-CCB7	QC		23				
1713142-CCV8	QC		24		7E02060		
1713142-CCB8	QC		25				
1713142-CCV9	QC		26		7E02060		
1713142-CCB9	QC		27				
1713142-CCVA	QC		28		7E02060		
1713142-CCBA	QC		29				
1713142-CCVB	QC		30		7E02060		
1713142-CCBB	QC		31				
1713142-CCVC	QC		32		7E02060		
1713142-CCBC	QC		33				
1713142-CCVD	QC		34		7E02060		
1713142-CCBD	QC		35				
B[G1933-MS1	QC		36				
B[G1933-MSD1	QC		37				
1713142-CCVE	QC		38		7E02060		
1713142-CCBE	QC		39				

ANALYSIS SEQUENCE

1713142

Instrument: KONE-1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713142-CCVF	QC		40		7E02060		
1713142-CCBF	QC		41				
B[G1935-BS1	QC		42				
B[G1935-BLK1	QC		43				
1719924-01	i353.2wb NO2 as N	A	44				BatchQC
1719924-01	i353.2wm NO2 as N	A	44				
B[G1935-DUP1	QC		45				
B[G1935-MS1	QC		46				
B[G1935-MSD1	QC		47				
1719984-01	i353.2wm NO2 as N	D	48				
1719984-02	i353.2wm NO2 as N	C	49				
1719986-01	i353.2wm NO2 as N	I	50				
1719987-01	i353.2wb NO2 as N	G	51				
1713142-CCVG	QC		52		7E02060		
1713142-CCBG	QC		53				
1719987-02	i353.2wb NO2 as N	I	54				
1713142-CCVH	QC		55		7E02060		
1713142-CCBH	QC		56				
1713142-CCVI	QC		57		7E02060		
1713142-CCBI	QC		58				
1713142-CCVJ	QC		59		7E02060		
1713142-CCBJ	QC		60				
1719923-01	i353.2wm NO2 as N	A	61				
1719923-02	i353.2wm NO2 as N	A	62				
B[G1937-BS1	QC		63				
B[G1937-BLK1	QC		64				
1720018-07	i353.2wm NO2 as N	G	65				
B[G1937-DUP1	QC		66				
B[G1937-MS1	QC		67				
B[G1937-MSD1	QC		68				
1720018-01	i353.2wm NO2 as N	D	69				
1720018-02	i353.2wm NO2 as N	D	70				
1713142-CCVK	QC		71		7E02060		
1713142-CCBK	QC		72				
1720018-05	i353.2wm NO2 as N	G	73				
1720018-06	i353.2wm NO2 as N	G	74				
1720018-08	i353.2wm NO2 as N	S	75				
1720018-09	i353.2wm NO2 as N	G	76				
1720018-11	i353.2wm NO2 as N	G	77				

ANALYSIS SEQUENCE

1713142

Instrument: KONE-1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[G1938-BS1	QC		78				
B[G1938-BLK1	QC		79				
1720019-01	i353.2wm NO2 as N	D	80				
1713142-CCVL	QC		81		7E02060		
1713142-CCBL	QC		82				
B[G1938-DUP1	QC		83				
B[G1938-MS1	QC		84				
B[G1938-MSD1	QC		85				
1720019-02	i353.2wm NO2 as N	A	86				
1720019-10	i353.2wm NO2 as N	A	87				
1720019-12	i353.2wm NO2 as N	A	88				
1720019-13	i353.2wm NO2 as N	A	89				
1720019-14	i353.2wm NO2 as N	A	90				
1720019-15	i353.2wm NO2 as N	A	91				
1720019-16	i353.2wm NO2 as N	A	92				
1713142-CCVM	QC		93		7E02060		
1713142-CCBM	QC		94				
B[G1939-BS1	QC		95				
B[G1939-BLK1	QC		96				
1720021-01	i353.2wm NO2 as N	H	97				
B[G1939-DUP1	QC		98				
B[G1939-MS1	QC		99				
B[G1939-MSD1	QC		100				
1720021-02	i353.2wm NO2 as N	H	101				
1720021-04	i353.2wm NO2 as N	H	102				
1720021-05	i353.2wm NO2 as N	H	103				
1720021-06	i353.2wm NO2 as N	H	104				
1713142-CCVN	QC		105		7E02060		
1713142-CCBN	QC		106				
1720021-08	i353.2wm NO2 as N	H	107				
1720021-09	i353.2wm NO2 as N	H	108				
1713142-CCVO	QC		109		7E02060		
1713142-CCBO	QC		110				
1720021-07	i353.2wm NO2 as N	H	111				
1713142-CCVP	QC		112		7E02060		
1713142-CCBP	QC		113				
1720018-04	i353.2wm NO2 as N	G	114				
1713142-CCVQ	QC		115		7E02060		
1713142-CCBQ	QC		116				

ANALYSIS SEQUENCE

1713142

Instrument: KONE-1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720018-10	i353.2wm NO2 as N	G	117				
1713142-CCVR	QC		118		7E02060		
1713142-CCBR	QC		119				
1713142-CCVS	QC		120		7E02060		
1713142-CCBS	QC		121				
1720062-01	i353.2wm NO2 as N	A	122				
1720062-02	i353.2wm NO2 as N	A	123				
1713142-CCVT	QC		124		7E02060		
1713142-CCBT	QC		125				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **WET**
Method: **EPA-415.1**

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-18_170720	1720018-09
M14-20D_170720	1720018-10
M14-21_170720	1720018-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: TOC2

Analyte	DL	LOD	LOQ	Units
Non-Volatile Organic Carbon	0.3	0.3	1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID: 20170721_1438-071
Sampled: 07/20/17 08:35
Prepared: 07/21/17 09:00
Analyzed: 07/22/17 07:58
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	16	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID: 20170721_1438-072
Sampled: 07/20/17 10:55
Prepared: 07/21/17 09:00
Analyzed: 07/22/17 08:13
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	13	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-09S_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-06
File ID: 20170721_1438-073
Sampled: 07/20/17 12:35
Prepared: 07/21/17 09:00
Analyzed: 07/22/17 08:27
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	9.7	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID: 20170721_1438-074
Sampled: 07/20/17 09:40
Prepared: 07/21/17 09:00
Analyzed: 07/22/17 08:41
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	17	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID: 20170721_1438-066
Sampled: 07/20/17 13:30
Prepared: 07/21/17 09:00
Analyzed: 07/22/17 06:46
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	23	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID: 20170724_0811-005
Sampled: 07/20/17 12:00
Prepared: 07/21/17 09:00
Analyzed: 07/24/17 09:14
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	44	3.0	3.0	10	10	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID: 20170724_0811-006
Sampled: 07/20/17 11:15
Prepared: 07/21/17 09:00
Analyzed: 07/24/17 09:28
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	22	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID: 20170724_0811-007
Sampled: 07/20/17 10:20
Prepared: 07/21/17 09:00
Analyzed: 07/24/17 09:42
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1720
Sequence: 1713147
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	16	1.5	1.5	5.0	5	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1720
Batch Matrix: Water
Preparation: General Preparation

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
M14-06_170720	1720018-04	20170721_1438-071	07/21/17 09:00	
M14-09D_170720	1720018-05	20170721_1438-072	07/21/17 09:00	
M14-09S_170720	1720018-06	20170721_1438-073	07/21/17 09:00	
M14-14_170720	1720018-07	20170721_1438-074	07/21/17 09:00	
M14-17R_170720	1720018-08	20170721_1438-066	07/21/17 09:00	
M14-18_170720	1720018-09	20170724_0811-005	07/21/17 09:00	
M14-20D_170720	1720018-10	20170724_0811-006	07/21/17 09:00	
M14-21_170720	1720018-11	20170724_0811-007	07/21/17 09:00	
Blank	B[G1720-BLK1	20170721_1438-062	07/21/17 09:00	
LCS	B[G1720-BS1	20170721_1438-065	07/21/17 09:00	
M14-17R_170720	B[G1720-DUP1	20170721_1438-068	07/21/17 09:00	
M14-17R_170720	B[G1720-MS1	20170721_1438-069	07/21/17 09:00	
M14-17R_170720	B[G1720-MSD1	20170721_1438-070	07/21/17 09:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-415.1

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1720-BLK1	File ID:	20170721_1438-062
Prepared:	07/21/17 09:00	Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml
Analyzed:	07/22/17 05:48	Instrument:	TOC2		
Batch:	B[G1720	Sequence:	1713147	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Non-Volatile Organic Carbon	0.30	0.30	0.30	1.0	U

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kevin Olness

M14-17R_170720

DUPLICATES
EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1720
Preparation: General Preparation
Source Sample Name: M14-17R_170720

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G1720-DUP1
Lab Source ID: 1720018-08
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Non-Volatile Organic Carbon	10	23.280		23.440		0.685		EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-415.1

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1720
Laboratory ID: B[G1720-MS1
Preparation: General Preparation
Initial/Final: 99.5 ml / 100 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	25.126	23.280	49.819	106	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Non-Volatile Organic Carbon	25.126	49.709	105	0.222	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1720
Laboratory ID: B[G1720-BS1
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0000	5.4710	109	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713147
Instrument: TOC2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713147-ICV1	20170721_1438-003	07/21/17 15:39
Initial Cal Blank	1713147-ICB1	20170721_1438-004	07/21/17 15:53
MRL Check	1713147-CRL1	20170721_1438-005	07/21/17 16:08
Calibration Check	1713147-CCV1	20170721_1438-015	07/21/17 18:31
Calibration Blank	1713147-CCB1	20170721_1438-016	07/21/17 18:45
Calibration Check	1713147-CCV2	20170721_1438-027	07/21/17 21:23
Calibration Blank	1713147-CCB2	20170721_1438-028	07/21/17 21:38
Calibration Check	1713147-CCV3	20170721_1438-039	07/22/17 00:16
Calibration Blank	1713147-CCB3	20170721_1438-040	07/22/17 00:30
Calibration Check	1713147-CCV4	20170721_1438-051	07/22/17 03:08
Calibration Blank	1713147-CCB4	20170721_1438-052	07/22/17 03:23
Blank	B[G1720-BLK1	20170721_1438-062	07/22/17 05:48
Calibration Check	1713147-CCV5	20170721_1438-063	07/22/17 06:02
Calibration Blank	1713147-CCB5	20170721_1438-064	07/22/17 06:16
LCS	B[G1720-BS1	20170721_1438-065	07/22/17 06:32
M14-17R_170720	1720018-08	20170721_1438-066	07/22/17 06:46
M14-17R_170720	B[G1720-DUP1	20170721_1438-068	07/22/17 07:15
M14-17R_170720	B[G1720-MS1	20170721_1438-069	07/22/17 07:29
M14-17R_170720	B[G1720-MSD1	20170721_1438-070	07/22/17 07:44
M14-06_170720	1720018-04	20170721_1438-071	07/22/17 07:58
M14-09D_170720	1720018-05	20170721_1438-072	07/22/17 08:13
M14-09S_170720	1720018-06	20170721_1438-073	07/22/17 08:27
M14-14_170720	1720018-07	20170721_1438-074	07/22/17 08:41
Calibration Check	1713147-CCV6	20170721_1438-075	07/22/17 08:56
Calibration Blank	1713147-CCB6	20170721_1438-076	07/22/17 09:10
Calibration Check	1713147-CCV8	20170724_0811-001	07/24/17 08:17

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713147	Instrument:	TOC2
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1713147-CCB8	20170724_0811-002	07/24/17 08:30
M14-18_170720	1720018-09	20170724_0811-005	07/24/17 09:14
M14-20D_170720	1720018-10	20170724_0811-006	07/24/17 09:28
M14-21_170720	1720018-11	20170724_0811-007	07/24/17 09:42
Calibration Check	1713147-CCV9	20170724_0811-010	07/24/17 10:25
Calibration Blank	1713147-CCB9	20170724_0811-011	07/24/17 10:39

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: TOC2
Project: Alameda
Sequence: 1713147
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713147-ICB1	Non-Volatile Organic Carbon	0.094000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB1	Non-Volatile Organic Carbon	0.044000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB2	Non-Volatile Organic Carbon	0.075000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB3	Non-Volatile Organic Carbon	0.014000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB4	Non-Volatile Organic Carbon	0.033000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB5	Non-Volatile Organic Carbon	0.013000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB6	Non-Volatile Organic Carbon	0.036000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB8	Non-Volatile Organic Carbon	0.0000	0.30		1.0	mg/L	U	EPA-415.1
1713147-CCB9	Non-Volatile Organic Carbon	0.027000	0.30		1.0	mg/L	U	EPA-415.1

AMEC Environmental & Infrastructure-
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INITIAL AND CONTINUING CALIBRATION CHECK

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: TOC2
Control Limt: +/- 10.00%

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713147

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713147-ICV1	Non-Volatile Organic Carbon	5.0000	5.3910	108	mg/L	EPA-415.1
1713147-CCV1	Non-Volatile Organic Carbon	5.0000	5.3470	107	mg/L	EPA-415.1
1713147-CCV2	Non-Volatile Organic Carbon	5.0000	5.4360	109	mg/L	EPA-415.1
1713147-CCV3	Non-Volatile Organic Carbon	5.0000	5.3150	106	mg/L	EPA-415.1
1713147-CCV4	Non-Volatile Organic Carbon	5.0000	5.3490	107	mg/L	EPA-415.1
1713147-CCV5	Non-Volatile Organic Carbon	5.0000	5.3740	107	mg/L	EPA-415.1
1713147-CCV6	Non-Volatile Organic Carbon	5.0000	5.4410	109	mg/L	EPA-415.1
1713147-CCV8	Non-Volatile Organic Carbon	5.0000	5.4610	109	mg/L	EPA-415.1
1713147-CCV9	Non-Volatile Organic Carbon	5.0000	5.3430	107	mg/L	EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/21/17 09:00	2.00	28.00	07/22/17 07:58	2.00	28.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/21/17 09:00	2.00	28.00	07/22/17 08:13	2.00	28.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/21/17 09:00	2.00	28.00	07/22/17 08:27	2.00	28.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/21/17 09:00	2.00	28.00	07/22/17 08:41	2.00	28.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/21/17 09:00	2.00	28.00	07/22/17 06:46	2.00	28.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/21/17 09:00	4.00	28.00	07/24/17 09:14	4.00	28.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/21/17 09:00	4.00	28.00	07/24/17 09:28	4.00	28.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/21/17 09:00	4.00	28.00	07/24/17 09:42	4.00	28.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument TOC2

Raw Data - Analytical Runs

BC Laboratories

Sample Results

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:38 pm			4,832	0.000	
2	2:46 pm			6,554	0.000	
3	2:54 pm			4,195	0.000	
4	3:02 pm			4,452	0.000	
		Clean Up	**Avg.**	5,008	**0.000**	

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:14 pm			4,715	0.000	
2	3:20 pm			5,024	0.000	
		QC Blank	**Avg.**	4,869	**0.000**	< PQL

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:33 pm			106,161	5.445	
2	3:39 pm			104,145	5.337	
		ICV1	**Avg.**	105,153	**5.391**	2.00

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:48 pm			6,375	0.080	
2	3:53 pm			6,853	0.107	
		ICB1	**Avg.**	6,614	**0.093**	< PQL

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:02 pm			10,240	0.289	
2	4:08 pm			10,652	0.311	
		CRL1	**Avg.**	10,446	**0.300**	7.33

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:16 pm			5,293	0.023	
2	4:22 pm			5,705	0.044	
		B[G1717-BLK1	**Avg.**	5,499	**0.034**	< PQL

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:31 pm			109,696	5.636	
2	4:37 pm			109,114	5.604	
		B[G1717-BS1	**Avg.**	109,405	**5.620**	0.57

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:45 pm			31,504	1.595	
2	4:51 pm			32,102	1.627	
		1719890-01@F	**Avg.**	31,803	**1.611**	1.99

BC Laboratories

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:59 pm			30,716	1.553	
2	5:05 pm			32,767	1.663	
		B[G1717-ICC@F	**Avg.**	31,742	**1.608**	6.84

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:14 pm			32,500	1.648	
2	5:20 pm			34,348	1.748	
		B[G1717-DUP1@F	**Avg.**	33,424	**1.698**	5.89

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:28 pm			133,562	7.082	
2	5:34 pm			133,761	7.092	
		B[G1717-MS1@F	**Avg.**	133,662	**7.087**	0.14

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:42 pm			133,584	7.083	
2	5:48 pm			133,774	7.093	
		B[G1717-MSD1@F	**Avg.**	133,679	**7.088**	0.14

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:56 pm			51,626	2.677	
2	6:02 pm			52,406	2.719	
		1719890-02@F	**Avg.**	52,016	**2.698**	1.56

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:11 pm			109,204	5.772	
2	6:17 pm			108,702	5.745	
		1719840-01@2D	**Avg.**	108,953	**5.759**	0.47

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:25 pm			104,481	5.355	
2	6:31 pm			104,177	5.339	
		CCV1	**Avg.**	104,329	**5.347**	0.30

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:39 pm			5,579	0.038	
2	6:45 pm			5,820	0.051	
		CCB1	**Avg.**	5,700	**0.045**	< PQL

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:54 pm			75,996	3.987	
2	7:00 pm			75,972	3.986	
		1719840-02@D	**Avg.**	75,984	**3.986**	0.03

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Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:08 pm			52,915	2.746	
2	7:14 pm			53,631	2.784	
		1719840-03@D	**Avg.**	53,273	**2.765**	1.37

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:22 pm			17,333	0.833	
2	7:28 pm			17,765	0.856	
		1719840-04@D	**Avg.**	17,549	**0.845**	2.72

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:37 pm			96,149	5.070	
2	7:43 pm			97,439	5.140	
		1719834-01@20H	**Avg.**	96,794	**5.105**	1.37

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:51 pm			75,032	3.935	
2	7:57 pm			74,797	3.922	
		1719912-01@500E	**Avg.**	74,914	**3.929**	0.33

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:05 pm			80,362	4.222	
2	8:11 pm			79,834	4.193	
		1719957-01@50D	**Avg.**	80,098	**4.208**	0.69

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:20 pm			645,100	34.582	
2	8:26 pm			758,270	40.666	
		1719957-02@D	**Avg.**	701,685	**37.624**	16.17

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:34 pm			9,540	0.251	
2	8:40 pm			9,755	0.263	
		B[G1718-BLK1	**Avg.**	9,647	**0.257**	4.67

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:48 pm			111,100	5.710	
2	8:54 pm			111,248	5.719	
		B[G1718-BS1	**Avg.**	111,174	**5.715**	0.16

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:03 pm			131,114	6.950	
2	9:09 pm			132,681	7.034	
		1719849-10@2AK	**Avg.**	131,898	**6.992**	1.20

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Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:17 pm			105,788	5.425	
2	9:23 pm			106,183	5.447	
		CCV2	**Avg.**	105,985	**5.436**	0.40

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:31 pm			6,142	0.069	
2	9:37 pm			6,371	0.081	
		CCB2	**Avg.**	6,257	**0.075**	< PQL

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:46 pm			116,543	6.167	
2	9:52 pm			118,586	6.276	
		B[G1718-ICC@2AK	**Avg.**	117,565	**6.221**	1.75

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:00 pm			129,027	6.838	
2	10:06 pm			130,534	6.919	
		B[G1718-DUP1@2AK	**Avg.**	129,781	**6.879**	1.18

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:15 pm			225,267	12.012	
2	10:20 pm			226,570	12.082	
		B[G1718-MS1@2AK	**Avg.**	225,919	**12.047**	0.58

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:29 pm			226,221	12.063	
2	10:35 pm			225,240	12.010	
		B[G1718-MSD1@2AK	**Avg.**	225,731	**12.037**	0.44

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:43 pm			117,692	6.228	
2	10:49 pm			118,030	6.247	
		1719849-09@2O	**Avg.**	117,861	**6.238**	0.30

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:57 pm			119,680	6.335	
2	11:03 pm			119,712	6.337	
		1719849-11@2O	**Avg.**	119,696	**6.336**	0.03

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:12 pm			20,698	1.014	
2	11:18 pm			21,175	1.040	
		1719891-01@G	**Avg.**	20,936	**1.027**	2.53

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Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:26 pm			16,228	0.774	
2	11:32 pm			17,075	0.819	
		1719891-02@G	**Avg.**	16,651	**0.797**	5.65

Rep #	Time	Date: 07/21/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:41 pm			11,804	0.536	
2	11:47 pm			12,903	0.595	
		1719891-03@G	**Avg.**	12,353	**0.565**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:55 pm			35,961	1.835	
2	12:01 am			36,429	1.860	
		1719673-01@D	**Avg.**	36,195	**1.848**	1.35

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:10 am			104,064	5.333	
2	12:16 am			103,418	5.297	
		CCV3	**Avg.**	103,741	**5.315**	0.68

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:24 am			4,800	0.000	
2	12:30 am			5,387	0.028	
		CCB3	**Avg.**	5,094	**0.014**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:39 am			15,606	0.740	
2	12:44 am			16,008	0.762	
		1719689-02@G	**Avg.**	15,807	**0.751**	2.93

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:53 am			15,929	0.758	
2	12:59 am			17,271	0.830	
		1719689-03@G	**Avg.**	16,600	**0.794**	9.07

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:07 am			68,222	3.569	
2	1:13 am			68,517	3.585	
		1719961-01@A	**Avg.**	68,370	**3.577**	0.45

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:21 am			6,142	0.068	
2	1:27 am			7,152	0.123	
		B[G1719-BLK1	**Avg.**	6,647	**0.096**	< PQL

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Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:36 am			106,496	5.463	
2	1:42 am			107,230	5.503	
		B[G1719-BS1	**Avg.**	106,863	**5.483**	0.73

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:50 am			21,040	1.032	
2	1:56 am			23,897	1.186	
		1719985-01@5F	**Avg.**	22,468	**1.109**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:05 am			20,716	1.015	
2	2:11 am			23,512	1.165	
		B[G1719-ICC@5F	**Avg.**	22,114	**1.090**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:19 am			20,560	1.007	
2	2:25 am			23,156	1.146	
		B[G1719-DUP1@5F	**Avg.**	21,858	**1.077**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:34 am			111,567	5.899	
2	2:39 am			116,382	6.158	
		B[G1719-MS1@5F	**Avg.**	113,974	**6.029**	4.30

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:48 am			111,638	5.903	
2	2:54 am			117,065	6.195	
		B[G1719-MSD1@5F	**Avg.**	114,351	**6.049**	4.83

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:02 am			104,568	5.360	
2	3:08 am			104,177	5.339	
		CCV4	**Avg.**	104,372	**5.350**	0.39

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:17 am			5,313	0.024	
2	3:23 am			5,640	0.042	
		CCB4	**Avg.**	5,477	**0.033**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:31 am			39,224	2.010	
2	3:37 am			39,288	2.013	
		1719985-03@5F	**Avg.**	39,256	**2.012**	0.15

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Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:46 am			95,833	5.053	
2	3:52 am			101,952	5.382	
		1719985-07@5F	**Avg.**	98,893	**5.218**	6.31

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:00 am			32,791	1.664	
2	4:06 am			32,926	1.671	
		1719985-09@5F	**Avg.**	32,859	**1.668**	0.42

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:15 am			40,993	2.105	
2	4:20 am			42,345	2.178	
		1719985-10@2F	**Avg.**	41,669	**2.142**	3.41

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:29 am			60,987	3.180	
2	4:35 am			66,506	3.477	
		1719985-11@F	**Avg.**	63,747	**3.329**	8.92

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:43 am			61,985	3.234	
2	4:49 am			68,302	3.573	
		1719985-12@F	**Avg.**	65,143	**3.404**	9.96

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:58 am			26,491	1.325	
2	5:04 am			26,443	1.323	
		1719995-02@500G	**Avg.**	26,467	**1.324**	0.15

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:13 am			30,347	1.533	
2	5:18 am			30,200	1.525	
		1719995-03@500G	**Avg.**	30,274	**1.529**	0.52

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:27 am			19,604	0.955	
2	5:33 am			19,850	0.968	
		1719995-04@500G	**Avg.**	19,727	**0.962**	1.35

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:42 am			4,899	0.002	
2	5:47 am			5,168	0.016	
		B[G1720-BLK1	**Avg.**	5,033	**0.009**	< PQL

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Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:56 am		105,637	5.417	
2	6:02 am		104,039	5.331	
		CCV5 Avg.	104,838	**5.374**	1.60

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:10 am		5,084	0.012	
2	6:16 am		5,109	0.013	
		CCB5 Avg.	5,097	**0.013**	8.00

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:25 am		107,273	5.505	
2	6:31 am		105,995	5.437	
		B[G1720-BS1 Avg.	106,634	**5.471**	1.24

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:40 am		88,409	4.654	
2	6:46 am		88,455	4.657	
		1720018-08@5X Avg.	88,432	**4.656**	0.06

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:54 am		82,720	4.348	
2	7:00 am		82,439	4.333	
		B[G1720-ICC@5X Avg.	82,579	**4.341**	0.35

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:09 am		89,398	4.707	
2	7:15 am		88,676	4.668	
		B[G1720-DUP1@5X Avg.	89,037	**4.688**	0.83

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:23 am		186,228	9.913	
2	7:29 am		186,243	9.914	
		B[G1720-MS1@5X Avg.	186,235	**9.914**	0.01

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:38 am		185,642	9.881	
2	7:44 am		186,039	9.903	
		B[G1720-MSD1@5X Avg.	185,840	**9.892**	0.22

Rep #	Time	Date: 07/22/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:52 am		61,894	3.229	
2	7:58 am		61,281	3.196	
		1720018-04@5J Avg.	61,588	**3.213**	1.03

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Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:07 am			52,657	2.732	
2	8:13 am			51,340	2.661	
		1720018-05@5J	**Avg.**	51,998	**2.696**	2.63

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:21 am			37,125	1.897	
2	8:27 am			38,522	1.972	
		1720018-06@5J	**Avg.**	37,823	**1.934**	3.88

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:35 am			63,761	3.328	
2	8:41 am			63,949	3.339	
		1720018-07@5J	**Avg.**	63,855	**3.334**	0.33

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:50 am			107,098	5.496	
2	8:56 am			105,046	5.386	
		CCV6	**Avg.**	106,072	**5.441**	2.02

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:05 am			5,456	0.032	
2	9:10 am			5,586	0.039	
		CCB6	**Avg.**	5,521	**0.035**	< PQL

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:19 am			84,531	4.446	
2	9:25 am			83,463	4.388	
		1720018-09@10J	**Avg.**	83,997	**4.417**	1.31

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:34 am			83,679	4.400	
2	9:40 am			84,201	4.428	
		1720018-10@5J	**Avg.**	83,940	**4.414**	0.63

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:48 am			58,395	3.041	
2	9:54 am			57,378	2.986	
		1720018-11@5J	**Avg.**	57,887	**3.014**	1.83

Rep #	Time	Date: 07/22/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:03 am			330,754	17.683	
2	10:09 am			322,829	17.256	
		1719968-01@200F	**Avg.**	326,792	**17.470**	2.44

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Rep #	Time	Date: 07/22/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:17 am				84,247	4.430	
2	10:23 am				83,523	4.391	
			1719968-02@A	**Avg.**	83,885	**4.411**	0.88

Rep #	Time	Date: 07/22/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:32 am				107,321	5.508	
2	10:38 am				106,892	5.485	
			CCV7	**Avg.**	107,106	**5.496**	0.42

Rep #	Time	Date: 07/22/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:46 am				106,447	5.461	
2	10:52 am				106,175	5.446	
			CCB7	**Avg.**	106,311	**5.454**	0.28

BC Laboratories

Sample Results

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:11 am			107,038	5.493	
2	8:17 am			105,850	5.429	
		CCV8	**Avg.**	106,444	**5.461**	1.17

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:25 am			3,753	0.000	
2	8:30 am			3,704	0.000	
		CCB8	**Avg.**	3,728	**0.000**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:39 am			117,541	6.220	
2	8:45 am			119,441	6.322	
		1719957-02@10D	**Avg.**	118,491	**6.271**	1.63

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:54 am			37,234	1.903	
2	8:59 am			36,989	1.890	
		1719995-04@200G	**Avg.**	37,112	**1.897**	0.69

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:08 am			84,758	4.458	
2	9:14 am			84,172	4.426	
		1720018-09@10J	**Avg.**	84,465	**4.442**	0.72

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:22 am			83,897	4.412	
2	9:28 am			84,862	4.463	
		1720018-10@5J	**Avg.**	84,379	**4.438**	1.15

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:36 am			60,741	3.167	
2	9:42 am			61,760	3.222	
		1720018-11@5J	**Avg.**	61,251	**3.194**	1.72

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:51 am			143,808	7.632	
2	9:57 am			141,720	7.520	
		1719968-01@500F	**Avg.**	142,764	**7.576**	1.48

BC Laboratories

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:05 am				80,221	4.214	
2	10:11 am				80,934	4.252	
			1719968-02@A	**Avg.**	80,577	**4.233**	0.90

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:19 am				103,782	5.318	
2	10:25 am				104,738	5.369	
			CCV9	**Avg.**	104,260	**5.344**	0.95

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:33 am				4,909	0.002	
2	10:39 am				5,833	0.052	
			CCB9	**Avg.**	5,371	**0.027**	< PQL

Raw Data - Calibration Summary

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Customer ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	6	6	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TIC	282	0.000	0.000	111	39.38	
									TOC	4,910	0.000	0.000	479	9.76	
3	1	TOC-RW	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	6,686	0.000	0.000	608	9.10	
4	2	TOC-Std#1-1.000 PPM	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	26,062	5.000	1.000	233	0.89	
5	3	TOC-Std#2-5.000 PPM	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	100,281	25.000	5.000	477	0.48	
6	4	TOC-Std#3-10.000 PPM	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	192,988	50.000	10.000	1,456	0.75	

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 06/29/2017 **Status:** Passed
Vial #: - **Method :** DefaultCleanUpMethod **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	3:14 pm	447	0.000	0.000	5,230	0.000	0.000
2	3:22 pm	167	0.000	0.000	5,734	0.000	0.000
3	3:29 pm	147	0.000	0.000	4,610	0.000	0.000
4	3:37 pm	290	0.000	0.000	4,772	0.000	0.000
5	3:44 pm	314	0.000	0.000	4,618	0.000	0.000
6	3:52 pm	330	0.000	0.000	4,493	0.000	0.000
	Avg.	282	0.000	0.000	4,910	0.000	0.000
	Std.Dev.	111			479		
	% RSD.	39.38			9.76		

Spl #: 3 **Sample ID :** TOC-RW **Type :** Standard **Date:** 06/29/2017 **Status:** Passed
Vial #: 1 **Method :** 170629 - 5 mls - Jun 29, 2017; **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	4:21 pm	-	-	-	5,975	0.000	0.000
2	4:27 pm	-	-	-	7,250	0.000	0.000
3	4:33 pm	-	-	-	6,387	0.000	0.000
4	4:39 pm	-	-	-	7,130	0.000	0.000
	Avg.	-	-	-	6,686	0.000	0.000
	Std.Dev.				608		
	% RSD.				9.10		

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	4	**Sample ID :**	TOC-Std#1-1.000 PPM	**Type :**	Standard	**Date:**	06/29/2017	**Status:**	Passed
Vial #:	2	**Method :**	170629 - 5 mls - Jun 29, 2017;	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	4:48 pm	-	-	-	26,199	5.000	1.000
2	4:54 pm	-	-	-	26,116	5.000	1.000
3	5:00 pm	-	-	-	25,718	5.000	1.000
4	5:05 pm	-	-	-	26,214	5.000	1.000
	Avg.	-	-	-	26,062	5.000	1.000
	Std.Dev.				233		
	% RSD.				0.89		

Spl #:	5	**Sample ID :**	TOC-Std#2-5.000 PPM	**Type :**	Standard	**Date:**	06/29/2017	**Status:**	Passed
Vial #:	3	**Method :**	170629 - 5 mls - Jun 29, 2017;	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	5:14 pm	-	-	-	100,930	25.000	5.000
2	5:19 pm	-	-	-	99,990	25.000	5.000
3	5:26 pm	-	-	-	100,341	25.000	5.000
4	5:31 pm	-	-	-	99,865	25.000	5.000
	Avg.	-	-	-	100,281	25.000	5.000
	Std.Dev.				477		
	% RSD.				0.48		

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	6	**Sample ID :**	TOC-Std#3-10.000 PPM	**Type :**	Standard	**Date:**	06/29/2017	**Status:**	Passed
Vial #:	4	**Method :**	170629 - 5 mls - Jun 29, 2017;	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	5:40 pm	-	-	-	194,519	50.000	10.000
2	5:46 pm	-	-	-	192,526	50.000	10.000
3	5:52 pm	-	-	-	193,725	50.000	10.000
4	5:57 pm	-	-	-	191,182	50.000	10.000
	Avg.	-	-	-	192,988	50.000	10.000
	Std.Dev.				1,456		
	% RSD.				0.75		

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Method Summary

Method Details

Method Name:	170629 - 5 mls - Jun 29, 2017
Date Created:	06/29/2017
Time Created:	15:01
Created By:	ALW

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1
Sample Stirring in A/S:	Enabled

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:15

Temp

	React	Detect
TIC	70	70
TOC	98	98

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Outlier Removal Criteria

Additional Replicates:	0
Max. % RSD.	3.00

Peak Detection Parameters

Signal-to-Noise Ratio:	3
Minimum Peak Width (min:sec):	00:30
Peak Resolution to BaseLine(%):	99

Volumes

Sample Volume (mL):	5.000
Acid Volume (mL):	0.500
Persulfate Volume(mL):	1.000

Rinses

Rinse Volume (mL):	10.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Other

SysPressure:	20.00

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Pass/Fail Criteria

Parameter	Low	High	Failure
RF (ugC/K-cts)	-	-	-
R2	0.995	1.000	Abort
Offset (area) (cts)	-	-	-
Offset (mass) (ugC)	-	-	-

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10,000.00	Continue	Continue
QC #1	5.000	10,000.00	Continue	Continue
QC #2	5.000	15,000.00	Continue	Continue
QC #3	1.000	50,000.00	Continue	Continue
QC #4	0.001	100,000.00	Continue	Continue
SST	0.000	0.00	Continue	Continue

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Calibration Details

Calibration Mode:	TOC	
Date Calibrated:	06/29/2017	
Time Calibrated:	5:57 pm	
Calibrated By:	ALW	
RF (ugC/k-cts):		0.2688
R2:		0.9999
Offset (area)(cts):		7099
Offset (mass)(ugC):		-1.908
Reagent Blank (cts):		1,837

Calibration Settings

Stock Conc. For Dilutions: (PPM)	1,000.000
# of Reagent Blanks:	2
Total Flowrate w/EFC:	50 ml/min
Check Standards:	Subtract Offset
Regression type:	Unweighted

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1720

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water

Prepared using: Wet Chem - General Preparation

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-04 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-05 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-06 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-07 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-08 X	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-09 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-10 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
1720018-11 J	i415.1w NVOC	7/21/2017 9:00AM	ALW	100	100					
B[G1720-BLK1	QC	7/21/2017 9:00AM	ALW	100	100					
B[G1720-BS1	QC	7/21/2017 9:00AM	ALW	100	100	7D13023		500		
B[G1720-DUP1	QC	7/21/2017 9:00AM	ALW	100	100		1720018-08			
B[G1720-MS1	QC	7/21/2017 9:00AM	ALW	99.5	100	7D13023	1720018-08	2500		
B[G1720-MSD1	QC	7/21/2017 9:00AM	ALW	99.5	100	7D13023	1720018-08	2500		

Spike Mixes	Description	Solvent	Prepared	Expires
7D13023	TOC KHP 1000 /SPIKE	H3P04 IN WATER	4/13/2017 by ** Vendor **	3/31/2018

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713147

Instrument: TOC2
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713147-ICV1	QC		1		7F15031		
1713147-ICB1	QC		2				
1713147-CRL1	QC		3		7G24019		
B[G1717-BLK1	QC		4				
B[G1717-BS1	QC		5				
1719890-01	i415.1w NVOC	F	6				BatchQC
1719890-01	iSM5310Cw NVOC	F	6				
B[G1717-DUP1	QC		7				
B[G1717-MS1	QC		8				
B[G1717-MSD1	QC		9				
1719890-02	iSM5310Cw NVOC	F	10				
1719840-01	iSM5310Cw NVOC	D	11				
1713147-CCV1	QC		12		7G24020		
1713147-CCB1	QC		13				
1719840-02	iSM5310Cw NVOC	D	14				
1719840-03	iSM5310Cw NVOC	D	15				
1719840-04	iSM5310Cw NVOC	D	16				
1719834-01	iSM5310Cw NVOC	H	17				
1719912-01	i415.1w NVOC	E	18				
B[G1718-BLK1	QC		19				
B[G1718-BS1	QC		20				
1719849-10	i415.1w NVOC	AK	21				
1719849-10	iSM5310Cw NVOC	AK	21				BatchQC
1713147-CCV2	QC		22		7G24020		
1713147-CCB2	QC		23				
B[G1718-DUP1	QC		24				
B[G1718-MS1	QC		25				
B[G1718-MSD1	QC		26				
1719849-09	i415.1w NVOC	O	27				
1719849-11	i415.1w NVOC	O	28				
1719891-01	iSM5310Cw NVOC	G	29				
1719891-02	iSM5310Cw NVOC	G	30				
1719891-03	iSM5310Cw NVOC	G	31				
1719673-01	iSM5310Cw NVOC	D	32				
1713147-CCV3	QC		33		7G24020		
1713147-CCB3	QC		34				
1719689-02	i415.1w NVOC	G	35				Panel 9
1719689-03	i415.1w NVOC	G	36				Panel 9
1719961-01	i415.1w NVOC	A	37				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713147

Instrument: TOC2
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[G1719-BLK1	QC		38				
B[G1719-BS1	QC		39				
1719985-01	i415.1w NVOC	F	40				
B[G1719-DUP1	QC		41				
B[G1719-MS1	QC		42				
B[G1719-MSD1	QC		43				
1713147-CCV4	QC		44		7G24020		
1713147-CCB4	QC		45				
1719985-03	i415.1w NVOC	F	46				
1719985-07	i415.1w NVOC	F	47				
1719985-09	i415.1w NVOC	F	48				
1719985-10	i415.1w NVOC	F	49				
1719985-11	i415.1w NVOC	F	50				
1719985-12	i415.1w NVOC	F	51				
1719995-02	i415.1w NVOC	G	52				Panel 9
1719995-03	i415.1w NVOC	G	53				Panel 9
1719995-04	i415.1w NVOC	G	54				Panel 9
B[G1720-BLK1	QC		55				
1713147-CCV5	QC		56		7G24020		
1713147-CCB5	QC		57				
B[G1720-BS1	QC		58				
1720018-08	i415.1w NVOC	X	59				
B[G1720-DUP1	QC		60				
B[G1720-MS1	QC		61				
B[G1720-MSD1	QC		62				
1720018-04	i415.1w NVOC	J	63				
1720018-05	i415.1w NVOC	J	64				
1720018-06	i415.1w NVOC	J	65				
1720018-07	i415.1w NVOC	J	66				
1713147-CCV6	QC		67		7G24020		
1713147-CCB6	QC		68				
1713147-CCV8	QC		69		7G24020		
1713147-CCB8	QC		70				
1720018-09	i415.1w NVOC	J	71				
1720018-10	i415.1w NVOC	J	72				
1720018-11	i415.1w NVOC	J	73				
1713147-CCV9	QC		74		7G24020		
1713147-CCB9	QC		75				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20018**
Class: **WET**
Method: **SM-4500SD**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
26MW03_170720	1720018-01
26MW08_170720	1720018-02
M14-06_170720	1720018-04
M14-09D_170720	1720018-05
M14-09S_170720	1720018-06
M14-14_170720	1720018-07
M14-17R_170720	1720018-08
M14-18_170720	1720018-09
M14-20D_170720	1720018-10
M14-21_170720	1720018-11

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-21-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: SPEC06

Analyte	DL	LOD	LOQ	Units
Total Sulfide	0.05	0.1	0.1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

26MW03_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-01
File ID:
Sampled: 07/20/17 13:50
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

26MW08_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-02
File ID:
Sampled: 07/20/17 13:25
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-06_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-04
File ID:
Sampled: 07/20/17 08:35
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-09D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-05
File ID:
Sampled: 07/20/17 10:55
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-09S_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-06
File ID:
Sampled: 07/20/17 12:35
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-14_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-07
File ID:
Sampled: 07/20/17 09:40
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-08
File ID:
Sampled: 07/20/17 13:30
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-18_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-09
File ID:
Sampled: 07/20/17 12:00
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-20D_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-10
File ID:
Sampled: 07/20/17 11:15
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-21_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720018-11
File ID:
Sampled: 07/20/17 10:20
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2243
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2243
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
26MW03_170720	1720018-01		07/26/17 09:00	
26MW08_170720	1720018-02		07/26/17 09:00	
M14-06_170720	1720018-04		07/26/17 09:00	
M14-09D_170720	1720018-05		07/26/17 09:00	
M14-09S_170720	1720018-06		07/26/17 09:00	
M14-14_170720	1720018-07		07/26/17 09:00	
M14-17R_170720	1720018-08		07/26/17 09:00	
M14-18_170720	1720018-09		07/26/17 09:00	
M14-20D_170720	1720018-10		07/26/17 09:00	
M14-21_170720	1720018-11		07/26/17 09:00	
Blank	B[G2243-BLK1		07/26/17 09:00	
LCS	B[G2243-BS1		07/26/17 09:00	
M14-17R_170720	B[G2243-DUP1		07/26/17 09:00	
M14-17R_170720	B[G2243-MS1		07/26/17 09:00	
M14-17R_170720	B[G2243-MSD1		07/26/17 09:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2243-BLK1	File ID:	
Prepared:	07/26/17 09:00	Preparation:	No Prep	Initial/Final:	25 ml / 25 ml
Analyzed:	07/26/17 09:00	Instrument:	SPEC06		
Batch:	B[G2243	Sequence:	1713328	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

M14-17R_170720

DUPLICATES
SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G2243
Preparation: No Prep
Source Sample Name: M14-17R_170720

SDG: 17-20018
Project: Alameda
Laboratory ID: B[G2243-DUP1
Lab Source ID: 1720018-08
Initial/Final: 25 ml / 25 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Sulfide	10	0.025760		ND				SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

M14-17R_170720

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2243
Laboratory ID: B[G2243-MS1
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720018-08

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	ND	0.40071	80.1	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Sulfide	0.50000	0.40432	80.9	0.897	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2243
Laboratory ID: B[G2243-BS1
Preparation: No Prep
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	0.49097	98.2	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-20018
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713328	Instrument:	SPEC06
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713328-ICV1		07/26/17 09:00
Initial Cal Blank	1713328-ICB1		07/26/17 09:00
LCS	B[G2243-BS1		07/26/17 09:00
Blank	B[G2243-BLK1		07/26/17 09:00
M14-17R_170720	1720018-08		07/26/17 09:00
M14-17R_170720	B[G2243-DUP1		07/26/17 09:00
M14-17R_170720	B[G2243-MS1		07/26/17 09:00
M14-17R_170720	B[G2243-MSD1		07/26/17 09:00
26MW03_170720	1720018-01		07/26/17 09:00
26MW08_170720	1720018-02		07/26/17 09:00
M14-06_170720	1720018-04		07/26/17 09:00
M14-09D_170720	1720018-05		07/26/17 09:00
Calibration Check	1713328-CCV1		07/26/17 09:00
Calibration Blank	1713328-CCB1		07/26/17 09:00
M14-09S_170720	1720018-06		07/26/17 09:00
M14-14_170720	1720018-07		07/26/17 09:00
M14-18_170720	1720018-09		07/26/17 09:00
M14-20D_170720	1720018-10		07/26/17 09:00
M14-21_170720	1720018-11		07/26/17 09:00
Calibration Check	1713328-CCV2		07/26/17 09:00
Calibration Blank	1713328-CCB2		07/26/17 09:00
Calibration Check	1713328-CCV3		07/26/17 09:00
Calibration Blank	1713328-CCB3		07/26/17 09:00

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Project: Alameda
Sequence: 1713328
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713328-CCB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713328-CCB2	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713328-CCB3	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713328-ICB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Control Limt: +/- %

SDG: 17-20018
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713328

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713328-CCV1	Total Sulfide	0.50000	0.49097	98.2	mg/L	SM-4500SD
1713328-CCV2	Total Sulfide	0.50000	0.49097	98.2	mg/L	SM-4500SD
1713328-CCV3	Total Sulfide	0.50000	0.49097	98.2	mg/L	SM-4500SD
1713328-ICV1	Total Sulfide	0.50000	0.50722	101	mg/L	SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20018
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
26MW03_170720	07/20/17 13:50	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
26MW08_170720	07/20/17 13:25	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-06_170720	07/20/17 08:35	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-09D_170720	07/20/17 10:55	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-09S_170720	07/20/17 12:35	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-14_170720	07/20/17 09:40	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-17R_170720	07/20/17 13:30	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-18_170720	07/20/17 12:00	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-20D_170720	07/20/17 11:15	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	
M14-21_170720	07/20/17 10:20	07/20/17 23:10	07/26/17 09:00	6.00	7.00	07/26/17 09:00	6.00	7.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument SPEC06

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2243

BC Laboratories

Printed: 8/21/2017 11:47:01AM

Matrix: Water

Prepared using: Wet Chem - No Prep

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720018-01 G	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-02 G	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-04 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-05 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-06 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-07 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-08 U	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-09 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-10 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720018-11 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
B[G2243-BLK1	QC	7/26/2017 9:00AM	DIW	25	25					
B[G2243-BS1	QC	7/26/2017 9:00AM	DIW	25	25	7G06078		2500		
B[G2243-DUP1	QC	7/26/2017 9:00AM	DIW	25	25		1720018-08			
B[G2243-MS1	QC	7/26/2017 9:00AM	DIW	25	25	7G06078	1720018-08	2500		
B[G2243-MSD1	QC	7/26/2017 9:00AM	DIW	25	25	7G06078	1720018-08	2500		

Spike Mixes	Description	Solvent	Prepared	Expires
7G06078	SULFIDE 5.0 WORK	H2O	7/6/2017 by Daniel Wenceslao	1/8/2018

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1713328

Instrument: SPEC06
Calibration ID:
Sequence Date: 07/26/2017
Printed: 8/21/2017 11:47:01AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713328-ICV1	QC		1		7G07020		
1713328-ICB1	QC		2				
B[G2243-BS1	QC		3				
B[G2245-BS1	QC		4				
B[G2243-BLK1	QC		5				
B[G2245-BLK1	QC		6				
1720018-08	iSM4500SDw Total Sulfide	U	7				
B[G2243-DUP1	QC		8				
B[G2243-MS1	QC		9				
B[G2243-MSD1	QC		10				
1720018-01	iSM4500SDw Total Sulfide	G	11				
1720018-02	iSM4500SDw Total Sulfide	G	12				
1720018-04	iSM4500SDw Total Sulfide	I	13				
1720018-05	iSM4500SDw Total Sulfide	I	14				
1713328-CCV1	QC		15		7G07021		
1713328-CCB1	QC		16				
1720018-06	iSM4500SDw Total Sulfide	I	17				
1720018-07	iSM4500SDw Total Sulfide	I	18				
1720018-09	iSM4500SDw Total Sulfide	I	19				
1720018-10	iSM4500SDw Total Sulfide	I	20				
1720018-11	iSM4500SDw Total Sulfide	I	21				
1720121-01	iSM4500SDw Total Sulfide	U	22				
B[G2245-DUP1	QC		23				
B[G2245-MS1	QC		24				
B[G2245-MSD1	QC		25				
1720029-05	iSM4500SDw Total Sulfide	U	26				
1713328-CCV2	QC		27		7G07021		
1713328-CCB2	QC		28				
1720029-11	iSM4500SDw Total Sulfide	N	29				
1720121-03	iSM4500SDw Total Sulfide	I	30				
1720121-06	iSM4500SDw Total Sulfide	H	31				
1720121-07	iSM4500SDw Total Sulfide	H	32				
1720121-08	iSM4500SDw Total Sulfide	H	33				
1720121-09	iSM4500SDw Total Sulfide	H	34				
1720121-10	iSM4500SDw Total Sulfide	H	35				
1713328-CCV3	QC		36		7G07021		
1713328-CCB3	QC		37				

Data Review Report

Sequence and Sample #	Sample Name	Batch #	Analysed
1713328			
1	1713328-ICV1	1713328	7/26/2017 9:00:00AM
2	1713328-ICB1	1713328	7/26/2017 9:00:00AM
3	B[G2243-BS1	B[G2243	7/26/2017 9:00:00AM
4	B[G2245-BS1	B[G2245	7/26/2017 9:00:00AM
5	B[G2243-BLK1	B[G2243	7/26/2017 9:00:00AM
6	B[G2245-BLK1	B[G2245	7/26/2017 9:00:00AM
7	1720018-08	B[G2243	7/26/2017 9:00:00AM
8	B[G2243-DUP1	B[G2243	7/26/2017 9:00:00AM
9	B[G2243-MS1	B[G2243	7/26/2017 9:00:00AM
10	B[G2243-MSD1	B[G2243	7/26/2017 9:00:00AM
11	1720018-01	B[G2243	7/26/2017 9:00:00AM
12	1720018-02	B[G2243	7/26/2017 9:00:00AM
13	1720018-04	B[G2243	7/26/2017 9:00:00AM
14	1720018-05	B[G2243	7/26/2017 9:00:00AM
15	1713328-CCV1	1713328	7/26/2017 9:00:00AM
16	1713328-CCB1	1713328	7/26/2017 9:00:00AM
17	1720018-06	B[G2243	7/26/2017 9:00:00AM
18	1720018-07	B[G2243	7/26/2017 9:00:00AM
19	1720018-09	B[G2243	7/26/2017 9:00:00AM
20	1720018-10	B[G2243	7/26/2017 9:00:00AM
21	1720018-11	B[G2243	7/26/2017 9:00:00AM
22	1720121-01	B[G2245	7/26/2017 9:00:00AM
23	B[G2245-DUP1	B[G2245	7/26/2017 9:00:00AM
24	B[G2245-MS1	B[G2245	7/26/2017 9:00:00AM
25	B[G2245-MSD1	B[G2245	7/26/2017 9:00:00AM
26	1720029-05	B[G2245	7/26/2017 9:00:00AM
27	1713328-CCV2	1713328	7/26/2017 9:00:00AM
28	1713328-CCB2	1713328	7/26/2017 9:00:00AM
29	1720029-11	B[G2245	7/26/2017 9:00:00AM
30	1720121-03	B[G2245	7/26/2017 9:00:00AM
31	1720121-06	B[G2245	7/26/2017 9:00:00AM
32	1720121-07	B[G2245	7/26/2017 9:00:00AM
33	1720121-08	B[G2245	7/26/2017 9:00:00AM
34	1720121-09	B[G2245	7/26/2017 9:00:00AM
35	1720121-10	B[G2245	7/26/2017 9:00:00AM
36	1713328-CCV3	1713328	7/26/2017 9:00:00AM
37	1713328-CCB3	1713328	7/26/2017 9:00:00AM

7/28/17 8:23 Sequence #: 1713328	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sequence # 1713328								
Sample ID: 1713328-ICV1	Sequence Sample # 1							
SM4500SDw Total Sulfide	0.50722		mg/L	1.00			Y	101
Sample ID: 1713328-ICB1	Sequence Sample # 2							
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	
Sample ID: B[G2243-BS1	Sequence Sample # 3		Batch # B[G2243					
SM4500SDw Total Sulfide	0.49097		mg/L	1.00	0.050	0.10	Y	98.2
Sample ID: B[G2245-BS1	Sequence Sample # 4		Batch # B[G2245					
SM4500SDw Total Sulfide	0.49097		mg/L	1.00	0.050	0.10	Y	98.2
Sample ID: B[G2243-BLK1	Sequence Sample # 5		Batch # B[G2243					
SM4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y	
Sample ID: B[G2245-BLK1	Sequence Sample # 6		Batch # B[G2245					
SM4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y	

Sequence #: 1713328	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD	
Sample ID: 1720018-08	Sequence Sample # 7		Batch # B[G2243						
iSM4500SDw Total Sulfide	0.026		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2243-DUP1	Sequence Sample # 8		Batch # B[G2243		Source ID: 1720018-08				
iSM4500SDw Total Sulfide	0.027270		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2243-MS1	Sequence Sample # 9		Batch # B[G2243		Source ID: 1720018-08				
iSM4500SDw Total Sulfide	0.40071		mg/L	1.00	0.050	0.10	Y	80.1	
Sample ID: B[G2243-MSD1	Sequence Sample # 10		Batch # B[G2243		Source ID: 1720018-08				
iSM4500SDw Total Sulfide	0.40432		mg/L	1.00	0.050	0.10	Y	80.9	0.897
Sample ID: 1720018-01	Sequence Sample # 11		Batch # B[G2243						
SM4500SDw Total Sulfide	0.023		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-02	Sequence Sample # 12		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-04	Sequence Sample # 13		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0076		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-05	Sequence Sample # 14		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1713328-CCV1	Sequence Sample # 15								
SM4500SDw Total Sulfide	0.49097		mg/L	1.00			Y	98.2	
Sample ID: 1713328-CCB1	Sequence Sample # 16								
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
Sample ID: 1720018-06	Sequence Sample # 17		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0076		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-07	Sequence Sample # 18		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0091		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-09	Sequence Sample # 19		Batch # B[G2243						
SM4500SDw Total Sulfide	0.017		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-10	Sequence Sample # 20		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-11	Sequence Sample # 21		Batch # B[G2243						
SM4500SDw Total Sulfide	0.032		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-01	Sequence Sample # 22		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2245-DUP1	Sequence Sample # 23		Batch # B[G2245		Source ID: 1720121-01				
SM4500SDw Total Sulfide	0.0045500		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2245-MS1	Sequence Sample # 24		Batch # B[G2245		Source ID: 1720121-01				
SM4500SDw Total Sulfide	0.46750		mg/L	1.00	0.050	0.10	Y	93.5	
Sample ID: B[G2245-MSD1	Sequence Sample # 25		Batch # B[G2245		Source ID: 1720121-01				
SM4500SDw Total Sulfide	0.46209		mg/L	1.00	0.050	0.10	Y	92.4	1.16
Sample ID: 1720029-05	Sequence Sample # 26		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1713328-CCV2	Sequence Sample # 27								
SM4500SDw Total Sulfide	0.49097		mg/L	1.00			Y	98.2	
Sample ID: 1713328-CCB2	Sequence Sample # 28								
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
Sample ID: 1720029-11	Sequence Sample # 29		Batch # B[G2245						
SM4500SDw Total Sulfide	0.033		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-03	Sequence Sample # 30		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-06	Sequence Sample # 31		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0076		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-07	Sequence Sample # 32		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-08	Sequence Sample # 33		Batch # B[G2245						
SM4500SDw Total Sulfide	0.021		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-09	Sequence Sample # 34		Batch # B[G2245						
SM4500SDw Total Sulfide	0.79	A07	mg/L	10.00	0.50	1.0	Y		

Sequence #: 1713328	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sample ID: 1720121-10	Sequence Sample # 35		Batch # B[G2245					
iSM4500SDw Total Sulfide	0.098	A07	mg/L	5.00	0.25	0.50	Y	
Sample ID: 1713328-CCV3	Sequence Sample # 36							
iSM4500SDw Total Sulfide	0.49097		mg/L	1.00			Y	98.2
Sample ID: 1713328-CCB3	Sequence Sample # 37							
iSM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	

Recovery and RPD Out of Control Report

Sample ID	Analyte	Rpt	Qual.	% Rec	RPD	Limits

Hold Time Out of Control Report

Analyte	Sample ID	Sample Date	Prep Date	Prep Expires	Date Analyzed	Analysis Exp.	SO5 Fl

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 07/26/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 07-26-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Standards

Conc	Reading
0	0.000
0.05	0.033
0.1	0.059
0.2	0.122
0.5	0.276
1.0	0.559

Correlation Coefficient: 0.999787076129343

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1713328-ICV1	0.285	0.50722	1	07/26/2017	09:00	SPEC06	DIW
1713328-ICB1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-BS1	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-BS1	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-BLK1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-BLK1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720018-08	0.017	0.02576	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-DUP1	0.018	0.02727	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-MS1	0.226	0.40071	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-MSD1	0.228	0.40432	1	07/26/2017	09:00	SPEC06	DIW
1720018-01	0.015	0.02273	1	07/26/2017	09:00	SPEC06	DIW
1720018-02	0.002	0.00303	1	07/26/2017	09:00	SPEC06	DIW
1720018-04	0.005	0.00758	1	07/26/2017	09:00	SPEC06	DIW
1720018-05	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCV1	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCB1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720018-06	0.005	0.00758	1	07/26/2017	09:00	SPEC06	DIW

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 07/26/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 07-26-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1720018-07	0.006	0.00909	1	07/26/2017	09:00	SPEC06	DIW
1720018-09	0.011	0.01667	1	07/26/2017	09:00	SPEC06	DIW
1720018-10	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720018-11	0.021	0.03182	1	07/26/2017	09:00	SPEC06	DIW
1720121-01	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-DUP1	0.003	0.00455	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-MS1	0.263	0.46750	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-MSD1	0.260	0.46209	1	07/26/2017	09:00	SPEC06	DIW
1720029-05	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCV2	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCB2	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720029-11	0.022	0.03333	1	07/26/2017	09:00	SPEC06	DIW
1720121-03	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
1720121-06	0.005	0.00758	1	07/26/2017	09:00	SPEC06	DIW
1720121-07	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
1720121-08	0.014	0.02121	1	07/26/2017	09:00	SPEC06	DIW
1720121-09	0.048	0.07936	10	07/26/2017	09:00	SPEC06	DIW
1720121-10	0.013	0.01970	5	07/26/2017	09:00	SPEC06	DIW
1713328-CCV3	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCB3	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW

WET CHEMISTRY RUNLOG

BC LABORATORIES, INC.

Reveiwed by: **Date :**

Run ID # 01

- ☐ W-Hz-Sulfide-376.1
- ☐ W-Hz-Sulfide-376.2 Sulfide

CONC	RESPONSE	IDENTIFICATION #
0.05	0.033	S- 07/26/17 0.05
0.1	0.059	S- 0.1
0.2	0.122	S- 0.2
0.5	0.276	S- 0.5
1.0	0.559	S- 1.0

Comments:

Analyte:	Sulfide	**ml Spike:**	2.5 mls
Method:	376.2	**Conc Spike:**	5 mg/L
Analyst:	DIW	**ml Sample:**	22.5 mls
Date:	07/26/17	**Spike ID #:**	S-070617 5-
Time:	09:00	**BS1 ID #:**	S- 5-
Corr Coef:	0.99978	**ICV #:**	S- 5-

	Lab ID #	Dil	Abs/tit	Result	P/R		Lab ID #	Dil	Abs/tit	Result	P/R
1	ICV		0.285			21	Dup		0.003		
2	ICB		0.000			22	MS		0.263		
3	BS1		0.276			23	MSD		0.260		
4	BLK1		0.000			24	~~20018-11 I~~ 20029-5H		0.162	0.000	✓
5	20018-8H		0.017		✓	25	CCV2		0.276		
6	Dup		0.018			26	CCB2		0.000		
7	MS		0.226			27	20029-11 N		0.220	0.022	✓
8	MSD		0.228			28	20121-3 I		0.004		✓
9	20018-1 G		0.015		✓	29	-6 H		0.005		✓
10	-2 G		0.058	0.002	✓	30	-7 H		0.004		✓
11	-4 I		0.005		✓	31	-8 H		0.014		✓
12	-5 I		0.088	0.004	✓	32	-9 H	B X10	0.059	0.048	✓
13	CCV1		0.276			33	-10 H	T X5	0.066	0.013	✓
14	CCB1		0.000			34	CCV3		0.276		
15	20018-6 I		0.005		✓	35	CCB3		0.000		
16	-7 I		0.006		✓	36	~~20018~~ Blank		Subtract		
17	-9 I		0.011		✓	37	20018-2		0.056		
18	-10 I	T	0.075	0.000	✓	38	-5		0.084		
19	-11 I		0.021		✓	39	-10		0.075		
20	20121-14		0.004		✓	40	20121-9	X10	0.011		

Batch # BEG 2243 **Batch #** BEG 2245 **Sequence #**

20121-10 X5 = 0.053

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/21/2017 11:47:01AM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.