



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

August 22, 2017

PJ Arsenault
Balchem Corporation
2007 Route 284
Slate Hill, NY 10973

TEL: (845) 355-5308

FAX:

Work Order No: 170801036

PO#: MRO-1-6719

RE: Groundwater Monitoring
Former Drum Disposal Area

Dear PJ Arsenault:

Adirondack Environmental Services, Inc received 6 samples on 8/1/2017 for the analyses presented in the following report.

"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

A handwritten signature in black ink, appearing to read "Tara Daniels", written in a cursive style.

Tara Daniels
Laboratory Director

Workorder Sample Summary

Client: Balchem Corporation

Work Order: 170801036

ProjectName: Groundwater Monitoring

ProjLocation: Former Drum Disposal Area

AES Sample No	ClientSampID	Matrix	CollectionDate	DateReceived
170801036-001	MW-4S	Groundwater	8/1/2017 11:25:00 AM	8/1/2017
170801036-002	MW-2	Groundwater	8/1/2017 12:00:00 PM	8/1/2017
170801036-003	PZ-7	Groundwater	8/1/2017 12:30:00 PM	8/1/2017
170801036-004	PZ-6	Groundwater	8/1/2017 12:28:00 PM	8/1/2017
170801036-005	Sump	Groundwater	8/1/2017 10:43:00 AM	8/1/2017
170801036-006	Trip Blank	Trip Blank	8/1/2017	8/1/2017



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Case Narrative

Client: Balchem – Former Drum Disposal Area

Case: 170801036

SDG: MW-2

Volatile Organics

- 1) The samples were analyzed for Target Compound List Analytes as specified on the chain of custody using EPA Method 8260 following the criteria for NYSDEC ASP.
- 2) The samples received on 8/1/17 had a temperature of 4 °C.
- 3) The water samples were preserved with HCl to a pH of less than 2. All samples were analyzed within the required holding times.
- 4) The calibration curve was judged against the limits listed in NYSDEC ASP manual, Exhibit E table 10.
- 5) The %D for the compound 1,2,4-Trichlorobenzene in the continuing calibration analyzed on 8/10/17 was outside the criteria established by the method. The %D for this compound was 29.0 %. According to the protocol, two volatile organic compounds may exceed the %D limit of 25.0 % as long as the %D is less than 40 % and the RRF is above 0.010. The %D was less than 40 % and the RRF was greater than 0.010 for this compound. This compound was not present in any of the samples. No further action was taken.
- 6) Sample PZ-7 (AES sample number 170801036-003) was used for the matrix spike sample. The recoveries for 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane and Bromomethane were outside specified limits for the matrix spike. The compounds 2-Butanone, Acetone, Benzene, Bromomethane, Chloroethane and Methyl Acetate were outside specified limits for the matrix spike duplicate. A matrix spike blank (LCS) was analyzed and the compounds Bromomethane and Methyl Acetate had low recoveries. All samples are flagged with a "S" to denote the low recoveries for the LCS and sample PZ-7 is flagged with an "N" to denote the low recovery for Bromomethane that was outside limits in both the matrix spike and matrix spike duplicate.
- 7) The method blank, MBLK, analyzed on 8/10/17 had the compounds 1,2,4-Trichlorobenzene and Acetone present. The levels present were within the acceptable range as specified by the protocol. Samples with this compound present that are associated with this blank are flagged with a "B" as required by the protocol.



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- 8) The column used in Instrument D for analysis was a DB-624, 20 meters long with an internal diameter of 0.18 mm. The trap used for this instrument is a VOCARB 4000 with Carboxen C&B / Carboxen 1000 & 1001.

Inorganics – Metals

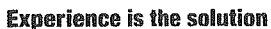
- 1) The samples were analyzed for Lead as specified on the chain of custody.
- 2) The recovery for Aluminum, Calcium, Iron and Magnesium in the ICSA and the ICSAB check standards may be outside the required limit. The required concentration for these analytes in the check standards is 500,000 ug/L, 500,000 ug/L, 200,000 ug/L and 500,000 ug/L, respectively. The linear range on this instrument for Aluminum, Calcium, Iron and Magnesium is 250,000 ug/L, 250,000 ug/L, 100,000 ug/L and 250,000 ug/L, respectively. At this level accurate recovery of Aluminum, Calcium, Iron and Magnesium in the check standards is not possible. No further action is required.
- 3) Sample PZ-7 (AES sample number 170801036-003) was used as the matrix spike sample. All recoveries were within acceptable limits.
- 4) Sample PZ-7 (AES sample number 170801036-003) was used as the duplicate sample. All recoveries were within acceptable limits.

“I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.”

A handwritten signature in black ink, appearing to read "Tara Davis", is written over a horizontal line.

Laboratory Director

Date: 8/22/17



CHAIN OF CUSTODY RECORD

AES Work Order #

170901038

A full service analytical research laboratory offering solutions to environmental concerns

[illegible]

Shipment Arrived Via: FedEx UPS Client AES Other: _____		CC Report To / Special Instructions/Remarks: PE-7 includes volume for ms/msd PE-6 Observations = well Dry	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal CLP ☐ 2 Day ☐ 5 Day Note: Samples received after 3:30 pm are considered next business day			
Relinquished by: (Signature)		Received by: (Signature) _____ Date/Time 8/1/2017 3:00PM	
Relinquished by: (Signature) _____		Received by: (Signature) _____ Date/Time _____	
Relinquished by: (Signature) _____		Received for Laboratory by: Date/Time 8/1/17 2:59 PM	
TEMPERATURE Ambient or Chilled Notes: 40C		AES Bottles Y ☒ N ☐	PROPERLY PRESERVED Y ☒ N ☐
		RECEIVED WITHIN HOLDING TIMES Y ☒ N ☐	Notes: _____

YELLOW - Sampler Copy

Adirondack Environmental Series



170801036

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: MW-4S

Work Order: 170801036

Collection Date: 8/1/2017 11:25:00 AM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-001

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	ND	3.00		µg/L	1	8/15/2017 3:52:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 3:49:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Acetone	3.4	10	JB	µg/L	1	8/10/2017 3:49:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 3:49:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 3:49:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: MW-4S

Work Order: 170801036

Collection Date: 8/1/2017 11:25:00 AM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-001

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 3:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Surr: 1,2-Dichloroethane-d4	92.2	80.3-122		%REC	1	8/10/2017 3:49:00 PM
Surr: 4-Bromofluorobenzene	93.4	74.1-124		%REC	1	8/10/2017 3:49:00 PM
Surr: Toluene-d8	101	79.6-110		%REC	1	8/10/2017 3:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: MW-2

Work Order: 170801036

Collection Date: 8/1/2017 12:00:00 PM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-002

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	2.86	3.00	J	µg/L	1	8/15/2017 3:56:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 4:10:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Acetone	1.8	10	JB	µg/L	1	8/10/2017 4:10:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 4:10:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 4:10:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: MW-2

Work Order: 170801036

Collection Date: 8/1/2017 12:00:00 PM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-002

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 4:10:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	80.3-122		%REC	1	8/10/2017 4:10:00 PM
Surr: 4-Bromofluorobenzene	95.9	74.1-124		%REC	1	8/10/2017 4:10:00 PM
Surr: Toluene-d8	100	79.6-110		%REC	1	8/10/2017 4:10:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: PZ-7

Work Order: 170801036

Collection Date: 8/1/2017 12:30:00 PM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-003

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	ND	3.00		µg/L	1	8/15/2017 4:02:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Bromomethane	ND	10	SN	µg/L	1	8/10/2017 4:32:00 PM
Vinyl chloride	3.3	10	J	µg/L	1	8/10/2017 4:32:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Acetone	3.2	10	JB	µg/L	1	8/10/2017 4:32:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
cis-1,2-Dichloroethene	3.5	5.0	J	µg/L	1	8/10/2017 4:32:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dichloroethane	4.6	5.0	J	µg/L	1	8/10/2017 4:32:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 4:32:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Benzene	180	5.0		µg/L	1	8/10/2017 4:32:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 4:32:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: PZ-7

Work Order: 170801036

Collection Date: 8/1/2017 12:30:00 PM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-003

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 4:32:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Surr: 1,2-Dichloroethane-d4	92.9	80.3-122		%REC	1	8/10/2017 4:32:00 PM
Surr: 4-Bromofluorobenzene	94.5	74.1-124		%REC	1	8/10/2017 4:32:00 PM
Surr: Toluene-d8	99.1	79.6-110		%REC	1	8/10/2017 4:32:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 22-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** PZ-6**Work Order:** 170801036**Collection Date:** 8/1/2017 12:28:00 PM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-004**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
FIELD-PH, RES CL2, AND TEMP ARE NOT ELAP CERTIFIABLE						Analyst: FLD
Observation	Well Dry			NA		8/1/2017 12:28:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation
Work Order: 170801036
Reference: Groundwater Monitoring / Former Drum Dis
PO#: MRO-1-6719

Client Sample ID: Sump
Collection Date: 8/1/2017 10:43:00 AM
Lab Sample ID: 170801036-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	ND	3.00		µg/L	1	8/15/2017 4:36:00 PM
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 4:53:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Acetone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: Sump

Work Order: 170801036

Collection Date: 8/1/2017 10:43:00 AM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-005

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
o-Xylene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 4:53:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Surr: 1,2-Dichloroethane-d4	96.5	80.3-122		%REC	1	8/10/2017 4:53:00 PM
Surr: 4-Bromofluorobenzene	95.6	74.1-124		%REC	1	8/10/2017 4:53:00 PM
Surr: Toluene-d8	99.6	79.6-110		%REC	1	8/10/2017 4:53:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: Trip Blank

Work Order: 170801036

Collection Date: 8/1/2017

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-006

PO#: MRO-1-6719

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 5:14:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Acetone	1.8	10	JB	µg/L	1	8/10/2017 5:14:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 5:14:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 5:14:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
o-Xylene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 5:14:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 22-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** Trip Blank**Work Order:** 170801036**Collection Date:** 8/1/2017**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-006**PO#:** MRO-1-6719**Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Surr: 1,2-Dichloroethane-d4	92.5	80.3-122		%REC	1	8/10/2017 5:14:00 PM
Surr: 4-Bromofluorobenzene	98.9	74.1-124		%REC	1	8/10/2017 5:14:00 PM
Surr: Toluene-d8	101	79.6-110		%REC	1	8/10/2017 5:14:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: MW-4S

Work Order: 170801036

Collection Date: 8/1/2017 11:25:00 AM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-001

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 3:49:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Acetone	3.4	10	JB	µg/L	1	8/10/2017 3:49:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 3:49:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 3:49:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
o-Xylene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 3:49:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 22-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** MW-4S**Work Order:** 170801036**Collection Date:** 8/1/2017 11:25:00 AM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-001**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 3:49:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 3:49:00 PM
Surr: 1,2-Dichloroethane-d4	92.2	80.3-122		%REC	1	8/10/2017 3:49:00 PM
Surr: 4-Bromofluorobenzene	93.4	74.1-124		%REC	1	8/10/2017 3:49:00 PM
Surr: Toluene-d8	101	79.6-110		%REC	1	8/10/2017 3:49:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: MW-2

Work Order: 170801036

Collection Date: 8/1/2017 12:00:00 PM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-002

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 4:10:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Acetone	1.8	10	JB	µg/L	1	8/10/2017 4:10:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 4:10:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 4:10:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
o-Xylene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 4:10:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation**Client Sample ID:** MW-2**Work Order:** 170801036**Collection Date:** 8/1/2017 12:00:00 PM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-002**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 4:10:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:10:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	80.3-122		%REC	1	8/10/2017 4:10:00 PM
Surr: 4-Bromofluorobenzene	95.9	74.1-124		%REC	1	8/10/2017 4:10:00 PM
Surr: Toluene-d8	100	79.6-110		%REC	1	8/10/2017 4:10:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: PZ-7

Work Order: 170801036

Collection Date: 8/1/2017 12:30:00 PM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-003

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Bromomethane	ND	10	SN	µg/L	1	8/10/2017 4:32:00 PM
Vinyl chloride	3.3	10	J	µg/L	1	8/10/2017 4:32:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Acetone	3.2	10	JB	µg/L	1	8/10/2017 4:32:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
cis-1,2-Dichloroethene	3.5	5.0	J	µg/L	1	8/10/2017 4:32:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dichloroethane	4.6	5.0	J	µg/L	1	8/10/2017 4:32:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 4:32:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Benzene	180	5.0		µg/L	1	8/10/2017 4:32:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 4:32:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
o-Xylene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 4:32:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 22-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** PZ-7**Work Order:** 170801036**Collection Date:** 8/1/2017 12:30:00 PM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-003**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 4:32:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:32:00 PM
Surr: 1,2-Dichloroethane-d4	92.9	80.3-122		%REC	1	8/10/2017 4:32:00 PM
Surr: 4-Bromofluorobenzene	94.5	74.1-124		%REC	1	8/10/2017 4:32:00 PM
Surr: Toluene-d8	99.1	79.6-110		%REC	1	8/10/2017 4:32:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation
Work Order: 170801036
Reference: Groundwater Monitoring / Former Drum Dis
PO#: MRO-1-6719

Client Sample ID: Sump
Collection Date: 8/1/2017 10:43:00 AM
Lab Sample ID: 170801036-005
Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 4:53:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Acetone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
o-Xylene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 4:53:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate
S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: Sump

Work Order: 170801036

Collection Date: 8/1/2017 10:43:00 AM

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-005

PO#: MRO-1-6719

Matrix: GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 4:53:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 4:53:00 PM
Surr: 1,2-Dichloroethane-d4	96.5	80.3-122		%REC	1	8/10/2017 4:53:00 PM
Surr: 4-Bromofluorobenzene	95.6	74.1-124		%REC	1	8/10/2017 4:53:00 PM
Surr: Toluene-d8	99.6	79.6-110		%REC	1	8/10/2017 4:53:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: Trip Blank

Work Order: 170801036

Collection Date: 8/1/2017

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-006

PO#: MRO-1-6719

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS EPA 8260C (SW5030C PREP)						Analyst: SMD
Chloromethane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Bromomethane	ND	10	S	µg/L	1	8/10/2017 5:14:00 PM
Vinyl chloride	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Chloroethane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Methylene chloride	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Acetone	1.8	10	JB	µg/L	1	8/10/2017 5:14:00 PM
Carbon disulfide	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Chloroform	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
2-Butanone	ND	10		µg/L	1	8/10/2017 5:14:00 PM
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dichloropropane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Benzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Bromoform	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/10/2017 5:14:00 PM
2-Hexanone	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Toluene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Chlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Styrene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
m,p-Xylene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
o-Xylene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Dichlorodifluoromethane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Methyl Acetate	ND	5.0	S	µg/L	1	8/10/2017 5:14:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc

Date: 22-Aug-17

CLIENT: Balchem Corporation

Client Sample ID: Trip Blank

Work Order: 170801036

Collection Date: 8/1/2017

Reference: Groundwater Monitoring / Former Drum Dis

Lab Sample ID: 170801036-006

PO#: MRO-1-6719

Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS EPA 8260C (SW5030C PREP)

Analyst: SMD

1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Trichlorofluoromethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Cyclohexane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
Methyl Cyclohexane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dibromoethane	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,3-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Isopropylbenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,4-Dichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
1,2-Dibromo-3-chloropropane	ND	10		µg/L	1	8/10/2017 5:14:00 PM
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	8/10/2017 5:14:00 PM
Surr: 1,2-Dichloroethane-d4	92.5	80.3-122		%REC	1	8/10/2017 5:14:00 PM
Surr: 4-Bromofluorobenzene	98.9	74.1-124		%REC	1	8/10/2017 5:14:00 PM
Surr: Toluene-d8	101	79.6-110		%REC	1	8/10/2017 5:14:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level
 E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
 Z - RPD outside accepted recovery limits
 N - Matrix Spike below accepted limits (+ above)
 T - Tentatively Identified Compound-Estimated Conc.

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT**BatchID: R150148**

mbk	SeqNo: 2233246	TestNo: SW8260C	RunNo: 150148
	Samp ID: vblk	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2,4-Trichlorobenzene	3.86	5.0									J
1,2-Dibromo-3-chloropropane	ND	10									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Butanone	ND	10									
2-Hexanone	ND	10									
4-Methyl-2-pentanone	ND	10									
Acetone	3.57	10									J
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	10									
Carbon disulfide	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	10									
Chloroform	ND	5.0									
Chloromethane	ND	10									
cis-1,2-Dichloroethene	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Cyclohexane	ND	10									

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

mbk	SeqNo: 2233246	TestNo: SW8260C	RunNo: 150148
	Samp ID: vblk	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	5.0									
Dichlorodifluoromethane	ND	10									
Ethylbenzene	ND	5.0									
Isopropylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methyl Acetate	ND	5.0									
Methyl Cyclohexane	ND	5.0									
Methyl tert-butyl ether	ND	5.0									
Methylene chloride	ND	5.0									
o-Xylene	ND	5.0									
Styrene	ND	5.0									
Tetrachloroethene	ND	5.0									
Toluene	ND	5.0									
trans-1,2-Dichloroethene	ND	5.0									
trans-1,3-Dichloropropene	ND	5.0									
Trichloroethene	ND	5.0									
Trichlorofluoromethane	ND	5.0									
Vinyl chloride	ND	10									
Surr: 1,2-Dichloroethane-d4	49.03	5.0	50	0	98.1	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	47.58	5.0	50	0	95.2	74.1	124	0	0		
Surr: Toluene-d8	50.35	5.0	50	0	101	79.6	110	0	0		

ics	SeqNo: 2233254	TestNo: SW8260C	RunNo: 150148
	Samp ID: ics	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	49.15	5.0	50	0	98.3	75.6	127	0	0		
1,1,2,2-Tetrachloroethane	39.05	5.0	50	0	78.1	72.1	126	0	0		
1,1,2-Trichloro-1,2,2-trifluoroethane	20.43	5.0	25	0	81.7	67.5	132	0	0		
1,1,2-Trichloroethane	46.57	5.0	50	0	93.1	76	122	0	0		
1,1-Dichloroethane	41.23	5.0	50	0	82.5	73.8	127	0	0		
1,1-Dichloroethene	40.95	5.0	50	0	81.9	68.1	134	0	0		
1,2,4-Trichlorobenzene	59.09	5.0	50	0	118	69.1	127	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Page 2 of 7

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

ICS	SeqNo: 2233254	TestNo: SW8260C	RunNo: 150148
	Samp ID: ics	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromo-3-chloropropane	50.25	10	50	0	101	72.6	126	0	0		
1,2-Dibromoethane	45.03	5.0	50	0	90.1	73.6	122	0	0		
1,2-Dichlorobenzene	50.63	5.0	50	0	101	72.3	115	0	0		
1,2-Dichloroethane	41.08	5.0	50	0	82.2	73.9	124	0	0		
1,2-Dichloropropane	44.47	5.0	50	0	88.9	72	125	0	0		
1,3-Dichlorobenzene	48.04	5.0	50	0	96.1	71.1	123	0	0		
1,4-Dichlorobenzene	48.24	5.0	50	0	96.5	71.2	113	0	0		
2-Butanone	32.8	10	50	0	65.6	63.4	129	0	0		
2-Hexanone	33.26	10	50	0	66.5	65	137	0	0		
4-Methyl-2-pentanone	34.29	10	50	0	68.6	68.2	126	0	0		
Acetone	32.86	10	50	0	65.7	59.8	139	0	0		B
Benzene	47.07	5.0	50	0	94.1	73.3	129	0	0		
Bromodichloromethane	45.55	5.0	50	0	91.1	73.6	127	0	0		
Bromoform	48.63	5.0	50	0	97.3	65.8	120	0	0		
Bromomethane	26.61	10	50	0	53.2	64	120	0	0		S
Carbon disulfide	19.5	5.0	25	0	78	62	134	0	0		
Carbon tetrachloride	50.17	5.0	50	0	100	61.3	123	0	0		
Chlorobenzene	47.55	5.0	50	0	95.1	69.1	128	0	0		
Chloroethane	41.69	10	50	0	83.4	63.9	138	0	0		
Chloroform	42.5	5.0	50	0	85	74.1	122	0	0		
Chloromethane	38.87	10	50	0	77.7	46.7	123	0	0		
cis-1,2-Dichloroethene	36.45	5.0	50	0	72.9	71.5	128	0	0		
cis-1,3-Dichloropropene	44.78	5.0	50	0	89.6	67	128	0	0		
Cyclohexane	19.68	10	25	0	78.7	72.6	130	0	0		
Dibromochloromethane	48.84	5.0	50	0	97.7	70.6	124	0	0		
Dichlorodifluoromethane	32.28	10	50	0	64.6	52	116	0	0		
Ethylbenzene	46.42	5.0	50	0	92.8	74.2	127	0	0		
Isopropylbenzene	45.8	5.0	50	0	91.6	76	127	0	0		
m,p-Xylene	91	5.0	100	0	91	69.7	129	0	0		
Methyl Acetate	15.57	5.0	25	0	62.3	66.5	131	0	0		S
Methyl Cyclohexane	20.78	5.0	25	0	83.1	70	127	0	0		
Methyl tert-butyl ether	20.04	5.0	25	0	80.2	70.2	125	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

ics	SeqNo: 2233254	TestNo: SW8260C	RunNo: 150148
	Samp ID: ics	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	40.67	5.0	50	0	81.3	62.1	127	0	0		
o-Xylene	47.1	5.0	50	0	94.2	72.7	131	0	0		
Styrene	45.63	5.0	50	0	91.3	70	126	0	0		
Tetrachloroethene	54.09	5.0	50	0	108	66.4	129	0	0		
Toluene	45.9	5.0	50	0	91.8	74	127	0	0		
trans-1,2-Dichloroethene	43.94	5.0	50	0	87.9	72.1	127	0	0		
trans-1,3-Dichloropropene	42.61	5.0	50	0	85.2	70.9	126	0	0		
Trichloroethene	51.44	5.0	50	0	103	72.9	128	0	0		
Trichlorofluoromethane	45.35	5.0	50	0	90.7	63	140	0	0		
Vinyl chloride	38.13	10	50	0	76.3	63	137	0	0		
Surr: 1,2-Dichloroethane-d4	46.26	5.0	50	0	92.5	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	49.09	5.0	50	0	98.2	74.1	124	0	0		
Surr: Toluene-d8	52.07	5.0	50	0	104	79.6	110	0	0		

ms	SeqNo: 2233252	TestNo: SW8260C	RunNo: 150148
	Samp ID: 170801036-003a (PZ-7)	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	45.2	5.0	50	0	90.4	74.1	131	0	0		
1,1,2,2-Tetrachloroethane	32.52	5.0	50	0	65	68.1	133	0	0		S
1,1,2-Trichloro-1,2,2-trifluoroethane	22.21	5.0	25	0	88.8	65.5	128	0	0		
1,1,2-Trichloroethane	42.69	5.0	50	0	85.4	68.3	131	0	0		
1,1-Dichloroethane	39.29	5.0	50	0	78.6	69.4	128	0	0		
1,1-Dichloroethene	42.19	5.0	50	0	84.4	63.4	134	0	0		
1,2,4-Trichlorobenzene	40.78	5.0	50	0	81.6	63.4	134	0	0		
1,2-Dibromo-3-chloropropane	31.95	10	50	0	63.9	67.4	121	0	0		S
1,2-Dibromoethane	41.42	5.0	50	0	82.8	70.1	123	0	0		
1,2-Dichlorobenzene	39.49	5.0	50	0	79	68	130	0	0		
1,2-Dichloroethane	43.36	5.0	50	4.57	77.6	70.8	129	0	0		
1,2-Dichloropropane	40.89	5.0	50	0	81.8	69	125	0	0		
1,3-Dichlorobenzene	38.84	5.0	50	0	77.7	73.6	124	0	0		
1,4-Dichlorobenzene	39.22	5.0	50	0	78.4	73.4	123	0	0		
2-Butanone	32.46	10	50	0	64.9	58.6	113	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

ms	SeqNo: 2233252	TestNo: SW8260C	RunNo: 150148
	Samp ID: 170801036-003a (PZ-7)	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Hexanone	31.67	10	50	0	63.3	60.9	130	0	0		
4-Methyl-2-pentanone	31.83	10	50	0	63.7	49.2	122	0	0		
Acetone	31.83	10	50	3.21	57.2	54.7	134	0	0		B
Benzene	216.8	5.0	50	179.8	74.1	69.6	129	0	0		E
Bromodichloromethane	43.54	5.0	50	0	87.1	75.7	125	0	0		
Bromoform	44.17	5.0	50	0	88.3	72.7	120	0	0		
Bromomethane	23.67	10	50	0	47.3	54.7	140	0	0		S
Carbon disulfide	18.71	5.0	25	0	74.8	63.8	120	0	0		
Carbon tetrachloride	49.14	5.0	50	0	98.3	60.7	132	0	0		
Chlorobenzene	39.42	5.0	50	0	78.8	73.5	129	0	0		
Chloroethane	40.46	10	50	0	80.9	68	141	0	0		
Chloroform	39.63	5.0	50	0	79.3	72.6	128	0	0		
Chloromethane	39.01	10	50	0	78	52.3	124	0	0		
cis-1,2-Dichloroethene	38.86	5.0	50	3.53	70.7	65	133	0	0		
cis-1,3-Dichloropropene	41	5.0	50	0	82	71	122	0	0		
Cyclohexane	19.28	10	25	0	77.1	70.4	127	0	0		
Dibromochloromethane	43.1	5.0	50	0	86.2	69.4	125	0	0		
Dichlorodifluoromethane	35.11	10	50	0	70.2	41.6	130	0	0		
Ethylbenzene	39.85	5.0	50	0	79.7	65.1	121	0	0		
Isopropylbenzene	39.77	5.0	50	0	79.5	66.2	129	0	0		
m,p-Xylene	78.69	5.0	100	0	78.7	72.6	124	0	0		
Methyl Acetate	14.85	5.0	25	0	59.4	56.6	116	0	0		
Methyl Cyclohexane	20.82	5.0	25	0	83.3	60.2	118	0	0		
Methyl tert-butyl ether	19.06	5.0	25	0	76.2	66.2	108	0	0		
Methylene chloride	38.45	5.0	50	0	76.9	62.3	113	0	0		
o-Xylene	39.31	5.0	50	0	78.6	70	122	0	0		
Styrene	38.53	5.0	50	0	77.1	63.8	112	0	0		
Tetrachloroethene	50.4	5.0	50	0	101	74	122	0	0		
Toluene	42.77	5.0	50	0	85.5	73.6	119	0	0		
trans-1,2-Dichloroethene	44.16	5.0	50	0	88.3	66.7	119	0	0		
trans-1,3-Dichloropropene	40.22	5.0	50	0	80.4	67.8	105	0	0		
Trichloroethene	47.15	5.0	50	0	94.3	72.1	129	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

ms	SeqNo: 2233252	TestNo: SW8260C	RunNo: 150148
	Samp ID: 170801036-003a (PZ-7)	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane	49.78	5.0	50	0	99.6	67	145	0	0		
Vinyl chloride	40.99	10	50	3.27	75.4	57.5	139	0	0		
Surr: 1,2-Dichloroethane-d4	46.65	5.0	50	0	93.3	80.3	122	0	0		
Surr: 4-Bromofluorobenzene	47	5.0	50	0	94	74.1	124	0	0		
Surr: Toluene-d8	51.52	5.0	50	0	103	79.6	110	0	0		

msd	SeqNo: 2233253	TestNo: SW8260C	RunNo: 150148
	Samp ID: 170801036-003a (PZ-7)	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	44.88	5.0	50	0	89.8	74.1	131	45.2	0.710	20.4	
1,1,2,2-Tetrachloroethane	37.73	5.0	50	0	75.5	68.1	133	32.52	14.8	18.6	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.63	5.0	25	0	82.5	65.5	128	22.21	7.38	20	
1,1,2-Trichloroethane	42.51	5.0	50	0	85	68.3	131	42.69	0.423	20	
1,1-Dichloroethane	37.7	5.0	50	0	75.4	69.4	128	39.29	4.13	19.2	
1,1-Dichloroethene	40.27	5.0	50	0	80.5	63.4	134	42.19	4.66	16.1	
1,2,4-Trichlorobenzene	52.63	5.0	50	0	105	63.4	134	40.78	25.4	20	Z
1,2-Dibromo-3-chloropropane	45.12	10	50	0	90.2	67.4	121	31.95	34.2	20.6	Z
1,2-Dibromoethane	43.12	5.0	50	0	86.2	70.1	123	41.42	4.02	18.7	
1,2-Dichlorobenzene	45.94	5.0	50	0	91.9	68	130	39.49	15.1	17.9	
1,2-Dichloroethane	44.07	5.0	50	4.57	79	70.8	129	43.36	1.62	15.6	
1,2-Dichloropropane	39.84	5.0	50	0	79.7	69	125	40.89	2.60	21.8	
1,3-Dichlorobenzene	43.74	5.0	50	0	87.5	73.6	124	38.84	11.9	14.3	
1,4-Dichlorobenzene	44.5	5.0	50	0	89	73.4	123	39.22	12.6	14.4	
2-Butanone	28.81	10	50	0	57.6	58.6	113	32.46	11.9	15	S
2-Hexanone	31.09	10	50	0	62.2	60.9	130	31.67	1.85	11.6	
4-Methyl-2-pentanone	32.33	10	50	0	64.7	49.2	122	31.83	1.56	11.9	
Acetone	27.04	10	50	3.21	47.7	54.7	134	31.83	16.3	10.6	BSZ
Benzene	201.9	5.0	50	179.8	44.3	69.6	129	216.8	7.10	18.4	SE
Bromodichloromethane	41.42	5.0	50	0	82.8	75.7	125	43.54	4.99	25.6	
Bromoform	44.82	5.0	50	0	89.6	72.7	120	44.17	1.46	12	
Bromomethane	23.88	10	50	0	47.8	54.7	140	23.67	0.883	16.9	S
Carbon disulfide	19.62	5.0	25	0	78.5	63.8	120	18.71	4.75	13.1	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

msd	SeqNo: 2233253	TestNo: SW8260C	RunNo: 150148
	Samp ID: 170801036-003a (PZ-7)	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon tetrachloride	45.34	5.0	50	0	90.7	60.7	132	49.14	8.04	20.3	
Chlorobenzene	45.29	5.0	50	0	90.6	73.5	129	39.42	13.9	19.6	
Chloroethane	31.89	10	50	0	63.8	68	141	40.46	23.7	27.8	S
Chloroform	39.34	5.0	50	0	78.7	72.6	128	39.63	0.734	20.3	
Chloromethane	41.41	10	50	0	82.8	52.3	124	39.01	5.97	18.4	
cis-1,2-Dichloroethene	39.67	5.0	50	3.53	72.3	65	133	38.86	2.06	11.3	
cis-1,3-Dichloropropene	40.42	5.0	50	0	80.8	71	122	41	1.42	21.5	
Cyclohexane	19.45	10	25	0	77.8	70.4	127	19.28	0.878	19.1	
Dibromochloromethane	44.05	5.0	50	0	88.1	69.4	125	43.1	2.18	18.8	
Dichlorodifluoromethane	35.08	10	50	0	70.2	41.6	130	35.11	0.0855	27.3	
Ethylbenzene	45.9	5.0	50	0	91.8	65.1	121	39.85	14.1	16.3	
Isopropylbenzene	44.36	5.0	50	0	88.7	66.2	129	39.77	10.9	20	
m,p-Xylene	89.14	5.0	100	0	89.1	72.6	124	78.69	12.5	16.1	
Methyl Acetate	13.83	5.0	25	0	55.3	56.6	116	14.85	7.11	15	S
Methyl Cyclohexane	19.48	5.0	25	0	77.9	60.2	118	20.82	6.65	25.4	
Methyl tert-butyl ether	18.66	5.0	25	0	74.6	66.2	108	19.06	2.12	17.9	
Methylene chloride	36.65	5.0	50	0	73.3	62.3	113	38.45	4.79	21.4	
o-Xylene	45.51	5.0	50	0	91	70	122	39.31	14.6	13	Z
Styrene	43.72	5.0	50	0	87.4	63.8	112	38.53	12.6	21.4	
Tetrachloroethene	48.46	5.0	50	0	96.9	74	122	50.4	3.92	20.9	
Toluene	43.68	5.0	50	0	87.4	73.6	119	42.77	2.11	19.4	
trans-1,2-Dichloroethene	42.8	5.0	50	0	85.6	66.7	119	44.16	3.13	16.1	
trans-1,3-Dichloropropene	40.41	5.0	50	0	80.8	67.8	105	40.22	0.471	20.3	
Trichloroethene	47.04	5.0	50	0	94.1	72.1	129	47.15	0.234	16.6	
Trichlorofluoromethane	48.12	5.0	50	0	96.2	67	145	49.78	3.39	22.8	
Vinyl chloride	41.85	10	50	3.27	77.2	57.5	139	40.99	2.08	20.5	
Surr: 1,2-Dichloroethane-d4	47.74	5.0	50	0	95.5	80.3	122	0	0	0	
Surr: 4-Bromofluorobenzene	48.93	5.0	50	0	97.9	74.1	124	0	0	0	
Surr: Toluene-d8	50.36	5.0	50	0	101	79.6	110	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC Batch Summary Report

Batch: R150148

Analyst: SM

SampID	SampType	TestName:	Analysis Date/Time:
bfb	tune	BFB tune	7/25/2017 9:54:00 AM
vstd005	lcal	EPA-8260	7/25/2017 12:31:00 PM
vstd010	ical	EPA-8260	7/25/2017 12:55:00 PM
vstd050	ical	EPA-8260	7/25/2017 1:16:00 PM
vstd100	ical	EPA-8260	7/25/2017 1:40:00 PM
vstd200	ical	EPA-8260	7/25/2017 2:01:00 PM
bfb	tune	BFB tune	8/10/2017 12:38:00 PM
vstd050	ccv	EPA-8260	8/10/2017 2:24:00 PM
vblk	mblk	EPA-8260	8/10/2017 3:28:00 PM
170801036-001a	samp	EPA-8260	8/10/2017 3:49:00 PM
170801036-002a	samp	EPA-8260	8/10/2017 4:10:00 PM
170801036-003a	samp	EPA-8260	8/10/2017 4:32:00 PM
170801036-005a	samp	EPA-8260	8/10/2017 4:53:00 PM
170801036-006a	samp	EPA-8260	8/10/2017 5:14:00 PM
170801036-003ams	ms	EPA-8260	8/10/2017 5:36:00 PM
170801036-003amsd	msd	EPA-8260	8/10/2017 5:57:00 PM
lcs	lcs	EPA-8260	8/10/2017 6:18:00 PM

Adirondack Environmental Servies, Inc.

Client: Balchem Corporation
WorkOrder 170801036
Project: Groundwater Monitoring
Test: E8260w

Internal Standard Summary Report

Batch: R150148

SampID	Analysis Time	1,4-Dichlorobenzene-d4	1,4-Difluorobenzene	Chlorobenzene-d5
vstd005	7/25/2017 12:31:00 PM	60155 RT: 12.11	139161 RT: 6.55	127218 RT: 10.11
vstd010	7/25/2017 12:55:00 PM	65656 RT: 12.11	158083 RT: 6.56	143824 RT: 10.11
vstd050	7/25/2017 1:16:00 PM	85573 RT: 12.39	215794 RT: 6.57	186739 RT: 10.11
vstd100	7/25/2017 1:40:00 PM	86911 RT: 12.39	197052 RT: 6.57	174773 RT: 10.11
vstd200	7/25/2017 2:01:00 PM	89671 RT: 12.39	175689 RT: 6.56	166498 RT: 10.11
vstd050	8/10/2017 2:24:00 PM	100414 RT: 12.39	235428 RT: 6.56	197061 RT: 10.11
vblk	8/10/2017 3:28:00 PM	81213 RT: 12.39	198082 RT: 6.56	174799 RT: 10.11
170801036-001A	8/10/2017 3:49:00 PM	79356 RT: 12.39	203916 RT: 6.56	171105 RT: 10.11
170801036-002A	8/10/2017 4:10:00 PM	77788 RT: 12.39	188012 RT: 6.56	163869 RT: 10.11
170801036-003A	8/10/2017 4:32:00 PM	79311 RT: 12.39	196957 RT: 6.57	168053 RT: 10.11
170801036-005A	8/10/2017 4:53:00 PM	81306 RT: 12.39	201051 RT: 6.57	176162 RT: 10.11
170801036-006A	8/10/2017 5:14:00 PM	80171 RT: 12.39	211405 RT: 6.57	178133 RT: 10.11
170801036-003a	8/10/2017 5:36:00 PM	79889 RT: 12.39	186133 RT: 6.56	156630 RT: 10.11
170801036-003a	8/10/2017 5:57:00 PM	86647 RT: 12.39	210935 RT: 6.56	185964 RT: 10.11
lcs	8/10/2017 6:18:00 PM	88755 RT: 12.39	224829 RT: 6.56	185589 RT: 10.11

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 19-Apr-17

Type	Analyte	MDL	PQL
A	1,1,1,2-Tetrachloroethane	1.57	5
A	1,1,1-Trichloroethane	1.98	5
A	1,1,2,2-Tetrachloroethane	1.9	5
A	1,1,2-Trichloro-1,2,2-trifluoroethane	1.88	5
A	1,1,2-Trichloroethane	2.01	5
A	1,1-Dichloroethane	1.88	5
A	1,1-Dichloroethene	1.94	5
A	1,1-Dichloropropene	1.8	5
A	1,2,3-Trichlorobenzene	3.64	5
A	1,2,3-Trichloropropane	2.07	5
A	1,2,4-Trichlorobenzene	2.7	5
A	1,2,4-Trimethylbenzene	1.97	5
A	1,2-Dibromo-3-chloropropane	3.09	10
A	1,2-Dibromoethane	1.88	5
A	1,2-Dichlorobenzene	2.15	5
A	1,2-Dichloroethane	1.23	5
A	1,2-Dichloropropane	2.3	5
A	1,3,5-Trimethylbenzene	2.15	5
A	1,3-Dichlorobenzene	2.2	5
A	1,3-Dichloropropane	1.9	5
A	1,4-Dichlorobenzene	2.2	5
A	1,4-Dioxane	17	100
A	1-Bromopropane		10
A	1-Propanol		100
A	2,2-Dichloropropane	0.75	5
A	2-Butanone	1.15	10
A	2-Chloroethanol		10
A	2-Chloroethyl vinyl ether		10
A	2-Chlorotoluene	2.16	5
A	2-Hexanone	0.9	10
A	2-Hydroxypropionitrile		10
A	2-Methyl-1,3-dioxolane		100
A	2-Nitropropane		10
A	2-Pentanone		10
A	2-Picoline		10
A	2-Propanol		100
A	3-Chloropropionitrile		10
A	3-Methyl Thiophene		10
A	4-Chlorotoluene	2.26	5
A	4-Isopropyltoluene	1.76	5
A	4-Methyl-2-pentanone	1.17	10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

Updated: 13-Jan-17

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	MDL	PQL
A	Acetone	1.22	10
A	Acetonitrile	43.1	200
A	Acrolein	5.93	100
A	Acrylonitrile	6.15	25
A	Allyl alcohol		10
A	Allyl chloride	1.39	10
A	Benzene	2.09	5
A	Benzyl chloride		10
A	beta-Propiolactone		10
A	bis-(2-Chloroethyl) Sulfide		10
A	Bromoacetone		10
A	Bromobenzene	2.66	5
A	Bromochloromethane	1.91	5
A	Bromodichloromethane	2.08	5
A	Bromoform	1.88	5
A	Bromomethane	1.2	10
A	Carbon disulfide	2.19	5
A	Carbon tetrachloride	1.43	5
A	Chlorobenzene	2.02	5
A	Chloroethane	2.36	10
A	Chloroform	2.01	5
A	Chloromethane	1.52	10
A	Chloroprene	2.3	20
A	cis-1,2-Dichloroethene	1.64	5
A	cis-1,3-Dichloropropene	1.94	5
A	cis-1,4-Dichloro-2-butene		10
A	Cyclohexane	1.35	5
A	Cyclohexanone		100
A	Dibromochloromethane	1.68	5
A	Dibromomethane	2.29	5
A	Dichlorodifluoromethane	1.06	10
A	Diethyl Ether		5
A	Diisobutylene		5
A	Ethanol	21.4	100
A	Ethyl acetate		50
A	Ethyl Ether		10
A	Ethyl methacrylate		10
A	Ethylbenzene	1.91	5
A	Heptane	1.17	10
A	Hexachlorobutadiene	2.83	10
A	Hexachloroethane		10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water

Units: µg/L

Updated: 13-Jan-17

**METHOD DETECTION /
REPORTING LIMITS**

Type	Analyte	MDL	PQL
A	Hexane		10
A	Iodomethane	1.43	10
A	Isobutyl Alcohol	28.5	200
A	Isopropyl Alcohol		100
A	Isopropyl ether		50
A	Isopropylbenzene	2.01	5
A	m,p-Xylene	4.36	10
A	Malononitrile		10
A	Methacrylonitrile	16	100
A	Methanol		500
A	Methyl Acetate	0.39	5
A	Methyl Cyclohexane	1.69	5
A	Methyl Formate		10
A	Methyl methacrylate	1.95	5
A	Methyl tert-butyl ether	2.47	5
A	Methylene chloride	1.63	5
A	Naphthalene	2.55	5
A	n-Butanol		100
A	n-Butylbenzene	1.79	5
A	Nitrobenzene		10
A	N-Nitroso-di-n-butylamine		10
A	n-Propylamine		10
A	n-Propylbenzene	1.99	5
A	o-Toluidine		10
A	o-Xylene	2.27	5
A	Paraldehyde		100
A	Pentachloroethane		10
A	Propionitrile	14.3	100
A	Pyridine		10
A	sec-Butylbenzene	1.93	5
A	Styrene	2.13	5
A	t-Amyl Methyl Ether		100
A	t-Butyl alcohol		100
A	tert-Butylbenzene	1.96	5
A	Tetrachloroethene	2.09	5
A	Tetrahydrofuran	4.67	10
A	Toluene	2.08	5
A	Total Volatiles		100
A	trans-1,2-Dichloroethene	1.8	5
A	trans-1,3-Dichloropropene	1.5	5
A	trans-1,4-Dichloro-2-butene	0.78	10

Test Code: E8260W

Test Number: SW8260C

Test Name: EPA-8260

Matrix: Water Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 13-Jan-17

Type	Analyte	MDL	PQL
A	Trichloroethene	2.18	5
A	Trichlorofluoromethane	1.31	5
A	Vinyl acetate	8.12	10
A	Vinyl chloride	1.32	10
A	Xylenes, Total		5
I	1,4-Dichlorobenzene-d4		0
I	1,4-Difluorobenzene		0
I	Chlorobenzene-d5		0
S	1,2-Dichloroethane-d4		5
S	4-Bromofluorobenzene		5
S	Toluene-d8		5

Method Path : C:\msdchem\1\qtmethods\
 Method File : fixedw8260-072517.M
 Title : Voa Calibration 8260 Water
 Last Update : Tue Aug 08 12:43:57 2017
 Response Via : Initial Calibration

Calibration Files

200 =d6034.D 100 =d6033.D 50 =d6032.D 5 =d6030.D 10 =d6031.D

	Compound	200	100	50	5	10	Avg	%RSD
1) I	1,4-Difluorobenzene	-----ISTD-----						
2)	Dichlorodifluo...	0.255	0.260	0.280	0.337	0.327	0.292	12.99
3)	Chloromethane	0.365	0.374	0.393	0.452	0.466	0.410	11.21
4)	Vinyl Chloride	0.353	0.357	0.374	0.405	0.417	0.381	7.48
5)	Bromomethane	0.161	0.181	0.180	0.267	0.251	0.208	22.91
6)	Chloroethane	0.230	0.266	0.245	0.328	0.298	0.273	14.59
7)	Acrolein	0.078	0.075	0.069	0.085	0.081	0.077	7.76
8)	Trichlorofluor...	0.490	0.515	0.531	0.672	0.576	0.557	12.87
9)	Freon113	0.295	0.301	0.305	0.372	0.341	0.323	10.20
10)	1,1-Dichloroet...	0.274	0.278	0.276	0.346	0.292	0.293	10.36
11)	Allyl Chloride	1.694	1.660	1.599	1.794	1.889	1.727	6.64
12)	Carbon Disulfide	0.892	0.885	0.864	0.993	0.905	0.908	5.47
13)	Acetone	0.242	0.239	0.242	0.343	0.310	0.275	17.45
14)	Iodomethane	0.452	0.442	0.413	0.338	0.347	0.398	13.34
15)	Acetonitrile	0.063	0.062	0.060	0.134	0.108	0.086	39.63
16)	Methyl Acetate	0.484	0.487	0.481	0.578	0.536	0.513	8.35
17)	Methylene Chlo...	0.346	0.339	0.345	0.411	0.406	0.369	9.77
18)	Acrylonitrile	0.224	0.209	0.198	0.184	0.225	0.208	8.41
19)	trans-1,2-Dich...	0.322	0.312	0.314	0.334	0.333	0.323	3.20
20)	Mtbe	1.371	1.341	1.366	1.535	1.428	1.408	5.53
21)	1,1-Dichloroet...	0.728	0.715	0.722	0.817	0.777	0.752	5.85
22)	Hexane	0.264	0.280	0.270	0.336	0.314	0.293	10.51
23)	cis-1,2-Dichlo...	0.686	0.668	0.660	0.766	0.725	0.701	6.28
24)	2,2-Dichloropr...	0.601	0.607	0.599	0.647	0.666	0.624	4.92
25)	Propionitrile	0.090	0.083	0.074	0.076	0.081	0.081	7.61
26)	Bromochloromet...	0.188	0.181	0.175	0.186	0.180	0.182	2.84
27)	Methacrylonitrile	0.230	0.227	0.211	0.240	0.235	0.229	4.86
28)	Chloroform	0.725	0.716	0.704	0.832	0.762	0.748	6.96
29)	Cyclohexane	0.494	0.500	0.515	0.647	0.590	0.549	12.12
30)	1,1-Dichloro-1...	0.518	0.525	0.520	0.586	0.557	0.541	5.49
31)	1,2-Dichloroet...	0.732	0.703	0.689	0.739	0.763	0.725	4.05
32)	2-Butanone	0.305	0.306	0.282	0.399	0.353	0.329	14.24
33) s	1,2-Dichloroet...	0.473	0.466	0.444	0.465	0.497	0.469	4.04
34) I	Chlorobenzene-d5	-----ISTD-----						
35)	1,1,1-Trichlor...	0.674	0.714	0.724	0.797	0.797	0.741	7.30
36)	Carbon Tetrach...	0.591	0.623	0.637	0.634	0.670	0.631	4.53
37)	Benzene	1.627	1.697	1.763	1.791	1.762	1.728	3.82
38)	Isobutanol	0.035	0.034	0.031	0.038	0.042	0.036	11.37
39)	Heptane	0.560	0.658	0.639	0.777	0.718	0.670	12.28
40)	Trichloroethene	0.374	0.405	0.404	0.357	0.425	0.393	6.83
41)	Methyl Cyclohe...	0.609	0.664	0.675	0.795	0.751	0.699	10.58
42)	1,2-Dichloropr...	0.450	0.480	0.474	0.439	0.494	0.467	4.79
43)	Vinyl Acetate	1.113	1.137	1.146	0.946	1.033	1.075	7.88

Method Path : C:\msdchem\1\qtmethods\ Method File : fixedw8260-072517.M								
44)	Dibromomethane	0.254	0.246	0.251	0.261	0.263	0.255	2.78
45)	1,4-Dioxane	0.007	0.007	0.006	0.007	0.010	0.008	20.83
46)	Methyl Methacr...	0.132	0.147	0.149	0.165	0.179	0.154	11.71
47)	Bromodichlorom...	0.644	0.650	0.676	0.688	0.688	0.669	3.12
48)	2-Chloroethyl ...	0.007					0.007	0.00
49)	cis-1,3-Dichlo...	0.716	0.734	0.720	0.709	0.741	0.724	1.84
50)	trans-1,3-Dich...	0.717	0.696	0.702	0.740	0.692	0.709	2.71
51)	1,1,2-Trichlor...	0.390	0.381	0.380	0.434	0.380	0.393	5.94
52)	1,3-Dichloropr...	0.733	0.725	0.753	0.790	0.734	0.747	3.50
53)	1,2-Dibromoethane	0.394	0.389	0.386	0.401	0.397	0.393	1.53
54)	Dibromochlorom...	0.478	0.463	0.473	0.509	0.489	0.482	3.63
55)	Bromoform	0.325	0.311	0.300	0.320	0.334	0.318	4.14
56)	4-Methyl-2-Pen...	0.765	0.796	0.770	0.993	0.922	0.849	12.08
57) s	Toluene-d8	1.280	1.369	1.359	1.342	1.352	1.340	2.63
58)	Toluene	1.009	1.059	1.054	1.143	1.073	1.068	4.54
59)	Ethyl Metacrylate	0.763	0.748	0.743	0.829	0.755	0.768	4.58
60)	Tetrachloroethene	0.296	0.306	0.306	0.352	0.288	0.310	8.06
61)	2-Hexanone	0.553	0.567	0.515	0.467	0.620	0.544	10.55
-----ISTD-----								
62) I	1,4-Dichlorobenzen...							
63)	Chlorobenzene	2.064	2.219	2.372	2.675	2.508	2.368	10.09
64)	1,1,1,2-Tetrac...	0.753	0.815	0.898	0.897	0.907	0.854	7.95
65)	Ethylbenzene	1.130	1.267	1.324	1.334	1.439	1.299	8.70
66)	m,p-Xylene	3.008	3.356	3.556	3.843	3.757	3.504	9.57
67)	o-Xylene	1.384	1.519	1.620	1.769	1.727	1.604	9.78
68)	Styrene	2.424	2.533	2.647	2.789	2.717	2.622	5.55
69)	Isopropylbenzene	3.703	4.083	4.259	4.485	4.714	4.249	9.09
70)	Chloroprene	0.249	0.261	0.243	0.279	0.284	0.263	6.83
71)	trans-1,4-Dich...	0.180	0.180	0.170	0.147	0.193	0.174	9.84
72)	Bromobenzene	1.974	2.071	2.143	2.244	2.358	2.158	6.92
73)	1,2,3-Trichlor...	1.437	1.506	1.508	1.600	1.721	1.554	7.06
74)	2-Chlorotoluene	2.669	2.850	2.917	3.379	3.152	2.993	9.24
75)	4-Chlorotoluene	3.123	3.309	3.348	3.411	3.496	3.337	4.17
76)	1,3,5-Trimethy...	3.191	3.491	3.620	3.871	3.708	3.576	7.16
77)	tert-Butylbenzene	2.602	2.845	2.923	2.822	3.107	2.860	6.38
78)	1,2,4-Trimethy...	3.316	3.519	3.620	3.914	3.827	3.639	6.59
79) S	Bromofluoroben...	1.113	1.141	1.224	1.172	1.182	1.166	3.61
80)	1,1,2,2-Tetrac...	1.035	1.079	1.122	1.289	1.285	1.162	10.19
81)	n-Propylbenzene	4.357	4.762	4.891	4.922	5.233	4.833	6.57
82)	1,3-Dichlorobe...	1.552	1.600	1.582	1.708	1.761	1.641	5.45
83)	sec-Butylbenzene	3.705	4.084	4.074	4.276	4.431	4.114	6.62
84)	4-Isopropyltol...	3.223	3.493	3.491	3.789	3.705	3.540	6.23
85)	1,4-Dichlorobe...	1.548	1.552	1.554	1.771	1.566	1.598	6.06
86)	1,2-Dichlorobe...	1.427	1.464	1.456	1.524	1.600	1.494	4.60
87)	n-Butylbenzene	2.755	2.978	2.903	3.084	3.081	2.960	4.65
88)	1,2-Dibromo-3-...	0.138	0.145	0.120	0.172	0.187	0.153	17.59
89)	1,2,4-Trichlor...	0.543	0.534	0.434	0.557	0.495	0.513	9.70
90)	Hexachlorobuta...	0.351	0.387	0.374	0.453	0.398	0.393	9.67
91)	Naphthalene	0.913	0.840	0.486	0.817	0.803	0.772	21.40
92)	1,2,3-Trichlor...	0.327	0.314	0.217	0.443	0.358	0.332	24.63

(#) = Out of Range

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6640.D
 Acq On : 10 Aug 2017 12:59
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 13:45:28 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Difluorobenzene	1.000	1.000	0.0	121	0.02
2	Dichlorodifluoromethane	0.292	0.248	15.1	107	0.03
3	Chloromethane	0.410	0.383	6.6	118	0.03
4	Vinyl Chloride	0.381	0.302	20.7	98	0.03
5	Bromomethane	0.208	0.129	38.0#	87	0.04
6	Chloroethane	0.273	0.177	35.2#	87	0.05
7	Acrolein	0.077	0.061	20.8	106	0.03
8	Trichlorofluoromethane	0.557	0.520	6.6	119	0.04
9	Freon113	0.323	0.290	10.2	115	0.03
10	1,1-Dichloroethene	0.293	0.238	18.8	105	0.04
11	Allyl Chloride	1.727	1.276	26.1#	97	0.03
12	Carbon Disulfide	0.908	0.705	22.4	99	0.04
13	Acetone	0.275	0.208	24.4	104	0.03
14	Iodomethane	0.398	0.340	14.6	100	0.04
15	Acetonitrile	0.086	0.042	51.2#	85	0.03
16	Methyl Acetate	0.513	0.421	17.9	106	0.03
17	Methylene Chloride	0.369	0.311	15.7	109	0.03
18	Acrylonitrile	0.208	0.161	22.6	98	0.03
19	trans-1,2-Dichloroethene	0.323	0.274	15.2	106	0.03
20	Mtbe	1.408	1.132	19.6	100	0.03
21	1,1-Dichloroethane	0.752	0.627	16.6	105	0.02
22	Hexane	0.293	0.202	31.1#	91	0.03
23	cis-1,2-Dichloroethene	0.701	0.565	19.4	104	0.02
24	2,2-Dichloropropane	0.624	0.555	11.1	112	0.02
25	Propionitrile	0.081	0.060	25.9#	98	0.00
26	Bromochloromethane	0.182	0.174	4.4	120	0.02
27	Methacrylonitrile	0.229	0.180	21.4	104	0.00
28	Chloroform	0.748	0.639	14.6	110	0.02
29	Cyclohexane	0.549	0.465	15.3	109	0.02
30	1,1-Dichloro-1-propene	0.541	0.440	18.7	102	0.02
31	1,2-Dichloroethane	0.725	0.616	15.0	108	0.02
32	2-Butanone	0.329	0.233	29.2#	100	0.02
33 s	1,2-Dichloroethane-d4	0.469	0.437	6.8	119	0.02
34 I	Chlorobenzene-d5	1.000	1.000	0.0	122	0.00
35	1,1,1-Trichloroethane	0.741	0.686	7.4	115	0.02
36	Carbon Tetrachloride	0.631	0.602	4.6	115	0.02
37	Benzene	1.728	1.491	13.7	103	0.01
38	Isobutanol	0.036	0.024	33.3#	95	-0.01
39	Heptane	0.670	0.499	25.5#	95	0.01
40	Trichloroethene	0.393	0.387	1.5	117	0.01
41	Methyl Cyclohexane	0.699	0.637	8.9	115	0.01
42	1,2-Dichloropropane	0.467	0.397	15.0	102	0.01
43	Vinyl Acetate	1.075	0.913	15.1	97	0.02
44	Dibromomethane	0.255	0.266	-4.3	129	0.00
45	1,4-Dioxane	0.008	0.006	25.0	114	0.00
46	Methyl Methacrylate	0.154	0.128	16.9	104	0.01
47	Bromodichloromethane	0.669	0.611	8.7	110	0.01
48	2-Chloroethyl vinyl ether	0.007	0.000	100.0#	0#	-8.07#
49	cis-1,3-Dichloropropene	0.724	0.632	12.7	107	0.00
50	trans-1,3-Dichloropropene	0.709	0.589	16.9	102	0.00
51	1,1,2-Trichloroethane	0.393	0.367	6.6	118	0.00
52	1,3-Dichloropropane	0.747	0.653	12.6	106	0.00
53	1,2-Dibromoethane	0.393	0.366	6.9	115	0.00

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6640.D
 Acq On : 10 Aug 2017 12:59
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 13:45:28 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	Dibromochloromethane	0.482	0.457	5.2	117	0.00
55	Bromoform	0.318	0.293	7.9	119	0.00
56	4-Methyl-2-Pentanone	0.849	0.607	28.5#	96	0.00
57 s	Toluene-d8	1.340	1.383	-3.2	124	0.01
58	Toluene	1.068	0.975	8.7	113	0.00
59	Ethyl Metacrylate	0.768	0.640	16.7	105	0.00
60	Tetrachloroethene	0.310	0.320	-3.2	127	0.00
61	2-Hexanone	0.544	0.394	27.6#	93	0.00
62 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	0.00
63	Chlorobenzene	2.368	2.224	6.1	115	0.00
64	1,1,1,2-Tetrachloroethane	0.854	0.909	-6.4	124	0.00
65	Ethylbenzene	1.299	1.248	3.9	115	0.00
66	m,p-Xylene	3.504	3.246	7.4	112	0.00
67	o-Xylene	1.604	1.522	5.1	115	0.00
68	Styrene	2.622	2.305	12.1	106	0.00
69	Isopropylbenzene	4.249	3.988	6.1	114	0.00
70	Chloroprene	0.263	0.175	33.5#	88	0.00
71	trans-1,4-Dichloro-2-butene	0.174	0.118	32.2#	85	0.00
72	Bromobenzene	2.158	1.747	19.0	100	0.00
73	1,2,3-Trichloropropane	1.554	1.146	26.3#	93	0.00
74	2-Chlorotoluene	2.993	2.523	15.7	106	0.00
75	4-Chlorotoluene	3.337	2.786	16.5	102	0.00
76	1,3,5-Trimethylbenzene	3.576	3.191	10.8	108	0.00
77	tert-Butylbenzene	2.860	2.724	4.8	114	0.00
78	1,2,4-Trimethylbenzene	3.639	3.120	14.3	105	0.00
79 S	Bromofluorobenzene	1.166	1.130	3.1	113	0.00
80	1,1,2,2-Tetrachloroethane	1.162	0.885	23.8	96	0.00
81	n-Propylbenzene	4.833	4.200	13.1	105	0.00
82	1,3-Dichlorobenzene	1.641	1.383	15.7	107	0.00
83	sec-Butylbenzene	4.114	3.620	12.0	109	0.00
84	4-Isopropyltoluene	3.540	3.097	12.5	108	0.00
85	1,4-Dichlorobenzene	1.598	1.323	17.2	104	0.00
86	1,2-Dichlorobenzene	1.494	1.258	15.8	106	0.00
87	n-Butylbenzene	2.960	2.271	23.3	96	0.00
88	1,2-Dibromo-3-Chloropr	0.153	0.104	32.0#	105	0.00
89	1,2,4-Trichlorobenzene	0.513	0.364	29.0#	103	0.00
90	Hexachlorobutadiene	0.393	0.380	3.3	124	0.00
91	Naphthalene	0.772	0.274	64.5#	69	0.00
92	1,2,3-Trichlorobenzene	0.332	0.154	53.6#	87	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT**BatchID: R150148**

CCV	SeqNo: 2233245	TestNo: SW8260C	RunNo: 150148
	Samp ID: vstd050	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	54.55	5.0	50	0	109	80	120	0	0		
1,1,2,2-Tetrachloroethane	38.64	5.0	50	0	77.3	80	120	0	0		S
1,1,2-Trichloro-1,2,2-trifluoroethane	53.36	5.0	50	0	107	80	120	0	0		
1,1,2-Trichloroethane	49.77	5.0	50	0	99.5	80	120	0	0		
1,1-Dichloroethane	44.46	5.0	50	0	88.9	80	120	0	0		
1,1-Dichloroethene	47.19	5.0	50	0	94.4	80	120	0	0		
1,2,4-Trichlorobenzene	40.25	5.0	50	0	80.5	80	120	0	0		
1,2-Dibromo-3-chloropropane	35.76	10	50	0	71.5	80	120	0	0		S
1,2-Dibromoethane	50.28	5.0	50	0	101	80	120	0	0		
1,2-Dichlorobenzene	44.69	5.0	50	0	89.4	80	120	0	0		
1,2-Dichloroethane	46.7	5.0	50	0	93.4	80	120	0	0		
1,2-Dichloropropane	49.05	5.0	50	0	98.1	80	120	0	0		
1,3-Dichlorobenzene	45.66	5.0	50	0	91.3	80	120	0	0		
1,4-Dichlorobenzene	43.94	5.0	50	0	87.9	80	120	0	0		
2-Butanone	40.28	10	50	0	80.6	80	120	0	0		
2-Hexanone	38.39	10	50	0	76.8	80	120	0	0		S
4-Methyl-2-pentanone	38	10	50	0	76	80	120	0	0		S
Acetone	40.31	10	50	0	80.6	80	120	0	0		
Benzene	50.02	5.0	50	0	100	80	120	0	0		
Bromodichloromethane	51.56	5.0	50	0	103	80	120	0	0		
Bromoform	50.37	5.0	50	0	101	80	120	0	0		
Bromomethane	31.79	10	50	0	63.6	80	120	0	0		S
Carbon disulfide	42.94	5.0	50	0	85.9	80	120	0	0		
Carbon tetrachloride	57.37	5.0	50	0	115	80	120	0	0		
Chlorobenzene	46.71	5.0	50	0	93.4	80	120	0	0		
Chloroethane	40.52	10	50	0	81	80	120	0	0		
Chloroform	48.37	5.0	50	0	96.7	80	120	0	0		
Chloromethane	50.71	10	50	0	101	80	120	0	0		
cis-1,2-Dichloroethene	45.4	5.0	50	0	90.8	80	120	0	0		
cis-1,3-Dichloropropene	48.91	5.0	50	0	97.8	80	120	0	0		
Cyclohexane	50.36	10	50	0	101	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: R150148

CCV	SeqNo: 2233245	TestNo: SW8260C	RunNo: 150148
	Samp ID: vstd050	Units: µg/L	Analysis Date: 8/10/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dibromochloromethane	52.29	5.0	50	0	105	80	120	0	0		
Dichlorodifluoromethane	47.74	10	50	0	95.5	80	120	0	0		
Ethylbenzene	46.64	5.0	50	0	93.3	80	120	0	0		
Isopropylbenzene	46.09	5.0	50	0	92.2	80	120	0	0		
m,p-Xylene	90.36	5.0	100	0	90.4	80	120	0	0		
Methyl Acetate	43.43	5.0	50	0	86.9	80	120	0	0		
Methyl Cyclohexane	53.83	5.0	50	0	108	80	120	0	0		
Methyl tert-butyl ether	92.93	5.0	100	0	92.9	80	120	0	0		
Methylene chloride	47.57	5.0	50	0	95.1	80	120	0	0		
o-Xylene	46.44	5.0	50	0	92.9	80	120	0	0		
Styrene	45.16	5.0	50	0	90.3	80	120	0	0		
Tetrachloroethene	57.44	5.0	50	0	115	80	120	0	0		
Toluene	51.19	5.0	50	0	102	80	120	0	0		
trans-1,2-Dichloroethene	46.96	5.0	50	0	93.9	80	120	0	0		
trans-1,3-Dichloropropene	45.98	5.0	50	0	92	80	120	0	0		
Trichloroethene	56.82	5.0	50	0	114	80	120	0	0		
Trichlorofluoromethane	56.33	5.0	50	0	113	80	120	0	0		
Vinyl chloride	43.04	10	50	0	86.1	80	120	0	0		
1,4-Dichlorobenzene-d4	50	0	0	0	0	0	0	0	0		
1,4-Difluorobenzene	50	0	0	0	0	0	0	0	0		
Chlorobenzene-d5	50	0	0	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	46.99	5.0	50	0	94	80.7	120	0	0		
Surr: 4-Bromofluorobenzene	45.89	5.0	50	0	91.8	80.2	127	0	0		
Surr: Toluene-d8	51.55	5.0	50	0	103	79.9	127	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

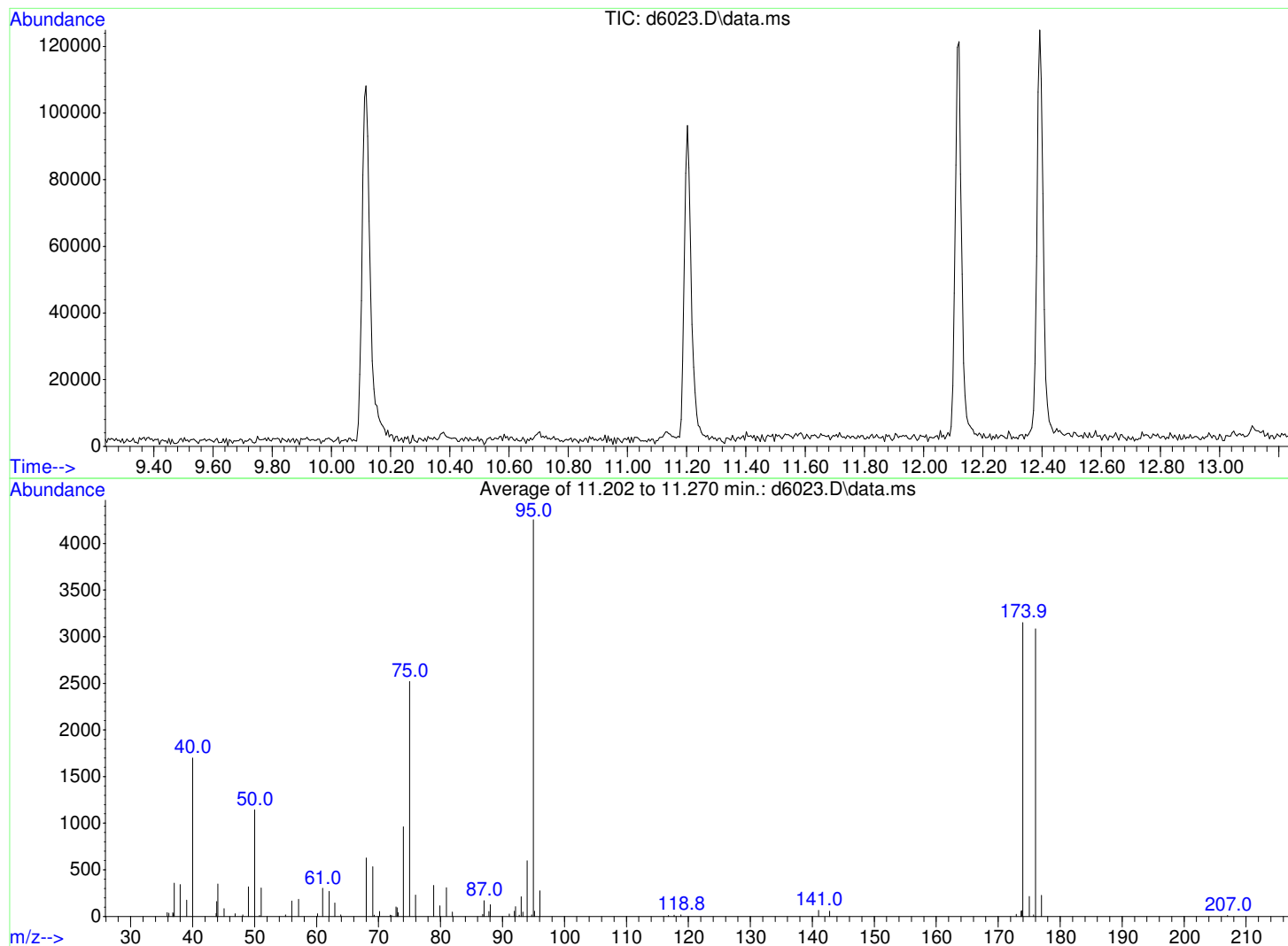
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Data Path : C:\msdchem\1\DATA\072517\
Data File : d6023.D
Acq On : 25 Jul 2017 9:54
Operator :
Sample : bfb
Misc : tune bfb
ALS Vial : 50 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Title : Voa Calibration 8260 Water
Last Update : Tue Aug 08 12:43:57 2017



Spectrum Information: Average of 11.202 to 11.270 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	26.9	1143	PASS
75	95	30	60	59.3	2521	PASS
95	95	100	100	100.0	4254	PASS
96	95	5	9	6.4	274	PASS
173	174	0.00	2	0.7	23	PASS
174	95	50	100	74.1	3152	PASS
175	174	5	9	6.8	214	PASS
176	174	95	101	97.9	3085	PASS
177	176	5	9	7.4	227	PASS

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6031.D
 Acq On : 25 Jul 2017 12:55
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 12:39:33 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:31:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	158083	50.00	ug	0.01
34) Chlorobenzene-d5	10.112	117	143824	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.114	152	65656	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	78492	53.39	ug	0.02
57) Toluene-d8	8.413	98	194462	50.39	ug	0.00
79) Bromofluorobenzene	11.197	95	77623	50.42	ug	0.00
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	10354	9.73	ug	# 92
3) Chloromethane	1.670	50	14735	10.32	ug	95
4) Vinyl Chloride	1.767	62	13174	10.28	ug	90
5) Bromomethane	2.059	94	7950	9.43	ug	91
6) Chloroethane	2.156	64	9435	9.11	ug	99
7) Acrolein	2.850	56	10267	38.34	ug	# 79
8) Trichlorofluoromethane	2.415	101	18201	8.57	ug	98
9) Freon113	2.971	101	10767	9.15	ug	82
10) 1,1-Dichloroethene	2.971	96	9242	8.46	ug	# 57
11) Allyl Chloride	3.374	41	59727	10.53	ug	74
12) Carbon Disulfide	3.196	76	28620	9.12	ug	100
13) Acetone	3.023	43	9791	9.03	ug	82
14) Iodomethane	3.128	142	10968	10.26	ug	# 73
15) Acetonitrile	3.348	40	34128m	81.58	ug	
16) Methyl Acetate	3.416	43	16962	9.28	ug	# 84
17) Methylene Chloride	3.505	84	12840	9.87	ug	# 29
18) Acrylonitrile	3.804	53	28515	49.00	ug	99
19) trans-1,2-Dichloroethene	3.851	96	10525	9.96	ug	# 76
20) Mtbe	3.857	73	90309	18.61	ug	96
21) 1,1-Dichloroethane	4.334	63	24563	9.51	ug	91
22) Hexane	4.203	43	9932	9.36	ug	# 84
23) cis-1,2-Dichloroethene	5.036	61	22912	9.46	ug	# 75
24) 2,2-Dichloropropane	5.026	77	21071	10.31	ug	# 43
25) Propionitrile	5.115	54	25491	106.51	ug	94
26) Bromochloromethane	5.309	128	5694	9.69	ug	# 1
27) Methacrylonitrile	5.298	67	74323	98.10	ug	# 48
28) Chloroform	5.419	83	24107	9.16	ug	92
29) Cyclohexane	5.707	84	18669	9.13	ug	# 54
30) 1,1-Dichloro-1-propene	5.849	75	17611	9.50	ug	# 58
31) 1,2-Dichloroethane	6.095	62	24109	10.32	ug	95
32) 2-Butanone	5.068	43	11153	8.85	ug	95
35) 1,1,1-Trichloroethane	5.634	97	22913	10.00	ug	96
36) Carbon Tetrachloride	5.838	117	19272	10.56	ug	98
37) Benzene	6.085	78	50679	9.84	ug	100
38) Isobutanol	6.017	43	24186	223.62	ug	# 69
39) Heptane	6.457	43	20651	9.24	ug	# 77
40) Trichloroethene	6.877	130	12211	11.88	ug	92
41) Methyl Cyclohexane	7.123	83	21614	9.45	ug	# 81
42) 1,2-Dichloropropane	7.144	63	14197	11.25	ug	89
43) Vinyl Acetate	4.428	43	29711	10.91	ug	# 100
44) Dibromomethane	7.296	174	7554	10.06	ug	# 55
45) 1,4-Dioxane	7.338	88	5905	553.89	ug	# 71
46) Methyl Methacrylate	7.128	69	5158	10.88	ug	# 1
47) Bromodichloromethane	7.495	83	19795	10.01	ug	86
49) cis-1,3-Dichloropropene	8.077	75	21328	10.46	ug	96
50) trans-1,3-Dichloropropene	8.785	75	19918	9.36	ug	97
51) 1,1,2-Trichloroethane	9.011	97	10927	8.76	ug	79
52) 1,3-Dichloropropane	9.226	76	21113	9.29	ug	# 30

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6031.D
 Acq On : 25 Jul 2017 12:55
 Operator :
 Sample : vstd010
 Misc : ical e8260w
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 12:39:33 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:31:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	11432	9.91	ug	95
54) Dibromochloromethane	9.488	129	14061	9.60	ug	99
55) Bromoform	10.914	173	9612	10.43	ug	95
56) 4-Methyl-2-Pentanone	8.282	43	26508	9.28	ug	80
58) Toluene	8.507	92	30856	9.38	ug	88
59) Ethyl Metacrylate	8.948	69	21726	9.11	ug	# 95
60) Tetrachloroethene	9.210	164	8277	8.17	ug	84
61) 2-Hexanone	9.367	43	17828	13.28	ug	77
63) Chlorobenzene	10.143	112	32939	9.38	ug	99
64) 1,1,1,2-Tetrachloroethane	10.232	133	11912	10.11	ug	94
65) Ethylbenzene	10.269	106	18891	10.78	ug	93
66) m,p-Xylene	10.384	91	98669	19.55	ug	91
67) o-Xylene	10.746	106	22676	9.76	ug	87
68) Styrene	10.762	104	35682	9.74	ug	73
69) Isopropylbenzene	11.076	105	61896	10.51	ug	96
70) Chloroprene	11.123	53	7458	20.33	ug	# 67
71) trans-1,4-Dichloro-2-b...	11.365	88	2535	13.12	ug	# 1
72) Bromobenzene	11.323	77	30965	10.51	ug	# 58
73) 1,2,3-Trichloropropane	11.349	75	22597	10.76	ug	# 73
74) 2-Chlorotoluene	11.485	91	41383	9.33	ug	94
75) 4-Chlorotoluene	11.569	91	45902	10.25	ug	96
76) 1,3,5-Trimethylbenzene	11.564	105	48688	9.58	ug	95
77) tert-Butylbenzene	11.821	119	40794	11.01	ug	99
78) 1,2,4-Trimethylbenzene	11.858	105	50247	9.78	ug	94
80) 1,1,2,2-Tetrachloroethane	11.317	83	16877	9.97	ug	95
81) n-Propylbenzene	11.422	91	68718	10.63	ug	96
82) 1,3-Dichlorobenzene	12.067	146	23123	10.31	ug	# 87
83) sec-Butylbenzene	11.989	105	58185	10.36	ug	100
84) 4-Isopropyltoluene	12.099	119	48654	9.78	ug	# 90
85) 1,4-Dichlorobenzene	12.130	146	20570	8.84	ug	# 23
86) 1,2-Dichlorobenzene	12.408	146	21004	10.49	ug	# 47
87) n-Butylbenzene	12.398	91	40462	9.99	ug	90
88) 1,2-Dibromo-3-Chloropr	12.953	157	2457	10.86	ug	# 42
89) 1,2,4-Trichlorobenzene	13.520	180	6502	8.88	ug	# 69
90) Hexachlorobutadiene	13.630	225	5228	8.79	ug	# 92
91) Naphthalene	13.682	128	10541	9.83	ug	100
92) 1,2,3-Trichlorobenzene	13.839	180	4705	8.09	ug	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6032.D
 Acq On : 25 Jul 2017 13:16
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 12:41:12 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:32:00 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	215794	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	186739	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	85573	50.00	ug	0.28

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.012	65	95768	46.16	ug	0.00
57) Toluene-d8	8.418	98	253730	50.44	ug	0.00
79) Bromofluorobenzene	11.197	95	104717	51.97	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.524	85	60417	42.16	ug	97
3) Chloromethane	1.690	50	84876	42.86	ug	97
4) Vinyl Chloride	1.787	62	80703	45.49	ug	99
5) Bromomethane	2.069	94	38799m	34.71	ug	
6) Chloroethane	2.176	64	52805m	39.09	ug	
7) Acrolein	2.866	56	59621	166.55	ug	92
8) Trichlorofluoromethane	2.436	101	114569	42.56	ug	97
9) Freon113	2.992	101	65921	42.86	ug	84
10) 1,1-Dichloroethene	2.981	96	59521	43.23	ug	# 64
11) Allyl Chloride	3.395	41	345102	43.42	ug	74
12) Carbon Disulfide	3.222	76	186524	45.54	ug	100
13) Acetone	3.044	43	52259m	37.11	ug	
14) Iodomethane	3.144	142	89070	60.26	ug	# 70
15) Acetonitrile	3.359	40	128862m	288.34	ug	
16) Methyl Acetate	3.437	43	103717	43.13	ug	# 83
17) Methylene Chloride	3.537	84	74392	42.17	ug	# 28
18) Acrylonitrile	3.820	53	171258	193.78	ug	97
19) trans-1,2-Dichloroethene	3.862	96	67813	47.11	ug	# 78
20) Mtbe	3.878	73	589412	92.17	ug	98
21) 1,1-Dichloroethane	4.350	63	155811	45.29	ug	90
22) Hexane	4.208	43	58203	41.52	ug	# 88
23) cis-1,2-Dichloroethene	5.047	61	142451	44.29	ug	# 75
24) 2,2-Dichloropropane	5.042	77	129218	45.60	ug	# 50
25) Propionitrile	5.120	54	160240	475.02	ug	97
26) Bromochloromethane	5.320	128	37717	47.76	ug	# 1
27) Methacrylonitrile	5.314	67	454374	443.57	ug	# 58
28) Chloroform	5.430	83	151831	44.12	ug	97
29) Cyclohexane	5.718	84	111232	41.66	ug	# 55
30) 1,1-Dichloro-1-propene	5.849	75	112266	45.50	ug	# 64
31) 1,2-Dichloroethane	6.106	62	148724	45.90	ug	99
32) 2-Butanone	5.073	43	60765	37.48	ug	90
35) 1,1,1-Trichloroethane	5.650	97	135139	45.42	ug	97
36) Carbon Tetrachloride	5.849	117	118959	48.84	ug	96
37) Benzene	6.090	78	329192	49.62	ug	100
38) Isobutanol	6.033	43	115537	776.86	ug	# 73
39) Heptane	6.463	43	119386	42.76	ug	# 76
40) Trichloroethene	6.887	130	75459	51.68	ug	93
41) Methyl Cyclohexane	7.134	83	126042	43.65	ug	# 80
42) 1,2-Dichloropropane	7.155	63	88607	50.89	ug	88
43) Vinyl Acetate	4.439	43	214064	57.91	ug	# 100
44) Dibromomethane	7.291	174	46814	47.88	ug	# 42
45) 1,4-Dioxane	7.333	88	22746	871.88	ug	# 72
46) Methyl Methacrylate	7.134	69	27916	43.45	ug	# 1
47) Bromodichloromethane	7.501	83	126202	49.12	ug	88
49) cis-1,3-Dichloropropene	8.072	75	134466	49.64	ug	97
50) trans-1,3-Dichloropropene	8.790	75	131151	49.04	ug	98
51) 1,1,2-Trichloroethane	9.016	97	70875	46.65	ug	91
52) 1,3-Dichloropropane	9.226	76	140690	49.43	ug	# 46

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6032.D
 Acq On : 25 Jul 2017 13:16
 Operator :
 Sample : vstd050
 Misc : ical e8260w
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 08 12:41:12 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:32:00 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	72076	48.35	ug	100
54) Dibromochloromethane	9.488	129	88348	47.42	ug	95
55) Bromoform	10.909	173	55995	45.82	ug	95
56) 4-Methyl-2-Pentanone	8.287	43	143824	40.23	ug	83
58) Toluene	8.502	92	196908	47.58	ug	94
59) Ethyl Metacrylate	8.953	69	138716	46.89	ug	96
60) Tetrachloroethene	9.210	164	57179	47.86	ug	96
61) 2-Hexanone	9.357	43	96108	47.37	ug	78
63) Chlorobenzene	10.148	112	202946	45.75	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	76844	49.77	ug	96
65) Ethylbenzene	10.269	106	113288	47.75	ug	95
66) m,p-Xylene	10.384	91	608576	93.57	ug	89
67) o-Xylene	10.746	106	138640	46.34	ug	# 84
68) Styrene	10.762	104	226491	48.06	ug	73
69) Isopropylbenzene	11.076	105	364426	46.30	ug	94
70) Chloroprene	11.124	53	41667	86.43	ug	# 75
71) trans-1,4-Dichloro-2-b...	11.370	88	14584	50.10	ug	# 1
72) Bromobenzene	11.318	77	183365	46.56	ug	# 60
73) 1,2,3-Trichloropropane	11.354	75	129034	45.41	ug	# 68
74) 2-Chlorotoluene	11.485	91	249581	44.66	ug	99
75) 4-Chlorotoluene	11.569	91	286495	48.48	ug	95
76) 1,3,5-Trimethylbenzene	11.564	105	309759	47.76	ug	100
77) tert-Butylbenzene	11.821	119	250152	49.31	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	309783	46.77	ug	93
80) 1,1,2,2-Tetrachloroethane	11.318	83	95976	43.57	ug	94
81) n-Propylbenzene	11.422	91	418512	48.16	ug	96
82) 1,3-Dichlorobenzene	12.067	146	135352	45.59	ug	# 83
83) sec-Butylbenzene	11.989	105	348612	46.79	ug	98
84) 4-Isopropyltoluene	12.094	119	298764	46.59	ug	# 92
85) 1,4-Dichlorobenzene	12.130	146	133001	46.57	ug	# 74
86) 1,2-Dichlorobenzene	12.408	146	124612	46.61	ug	# 83
87) n-Butylbenzene	12.398	91	248388	47.08	ug	# 89
88) 1,2-Dibromo-3-Chloropr	12.948	157	10305	33.51	ug	# 1
89) 1,2,4-Trichlorobenzene	13.514	180	37115m	41.21	ug	
90) Hexachlorobutadiene	13.625	225	32023	43.98	ug	# 94
91) Naphthalene	13.682	128	41595	30.01	ug	98
92) 1,2,3-Trichlorobenzene	13.834	180	18528m	27.02	ug	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6033.D
 Acq On : 25 Jul 2017 13:40
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 12:42:53 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:32:44 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	197052	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	174773	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	86911	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.006	65	91771	49.71	ug	0.00
57) Toluene-d8	8.413	98	239218	50.66	ug	0.00
79) Bromofluorobenzene	11.197	95	99160	47.83	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.515	85	102442	82.61	ug	99
3) Chloromethane	1.680	50	147372	85.57	ug	98
4) Vinyl Chloride	1.777	62	140879	89.66	ug	99
5) Bromomethane	2.050	94	71263m	77.74	ug	
6) Chloroethane	2.157	64	104696m	98.02	ug	
7) Acrolein	2.855	56	117752	381.49	ug	95
8) Trichlorofluoromethane	2.425	101	202897	86.85	ug	98
9) Freon113	2.981	101	118483	88.58	ug	83
10) 1,1-Dichloroethene	2.966	96	109399	91.13	ug	# 64
11) Allyl Chloride	3.380	41	654314m	94.29	ug	
12) Carbon Disulfide	3.207	76	348951	96.16	ug	100
13) Acetone	3.034	43	94314m	81.32	ug	
14) Iodomethane	3.128	142	174193	120.79	ug	# 74
15) Acetonitrile	3.343	40	245515m	718.74	ug	
16) Methyl Acetate	3.422	43	191894	91.59	ug	# 83
17) Methylene Chloride	3.521	84	133549	87.47	ug	# 25
18) Acrylonitrile	3.804	53	330006	413.21	ug	97
19) trans-1,2-Dichloroethene	3.852	96	122876	95.31	ug	# 77
20) Mtbe	3.867	73	1056868	185.84	ug	98
21) 1,1-Dichloroethane	4.339	63	281637	92.56	ug	89
22) Hexane	4.203	43	110298	91.33	ug	# 85
23) cis-1,2-Dichloroethene	5.037	61	263211	93.16	ug	# 77
24) 2,2-Dichloropropane	5.031	77	239377	95.31	ug	# 54
25) Propionitrile	5.115	54	326339	1077.37	ug	96
26) Bromochloromethane	5.320	128	71206	100.23	ug	# 1
27) Methacrylonitrile	5.309	67	895415	994.68	ug	# 60
28) Chloroform	5.419	83	282013	93.41	ug	96
29) Cyclohexane	5.713	84	197244	85.67	ug	# 53
30) 1,1-Dichloro-1-propene	5.844	75	207072	94.75	ug	# 65
31) 1,2-Dichloroethane	6.101	62	276878	96.21	ug	97
32) 2-Butanone	5.063	43	120590	88.87	ug	90
35) 1,1,1-Trichloroethane	5.639	97	249408	92.38	ug	100
36) Carbon Tetrachloride	5.844	117	217735	96.25	ug	97
37) Benzene	6.085	78	593075	95.76	ug	100
38) Isobutanol	6.027	43	241038	1870.84	ug	# 73
39) Heptane	6.457	43	230108	92.52	ug	# 70
40) Trichloroethene	6.882	130	141632	102.49	ug	95
41) Methyl Cyclohexane	7.128	83	232178	89.71	ug	# 78
42) 1,2-Dichloropropane	7.149	63	167782	102.35	ug	88
43) Vinyl Acetate	4.428	43	397511	109.15	ug	# 100
44) Dibromomethane	7.286	174	85883	95.20	ug	# 45
45) 1,4-Dioxane	7.328	88	50250m	2149.83	ug	
46) Methyl Methacrylate	7.123	69	51210	89.05	ug	# 1
47) Bromodichloromethane	7.490	83	227036	94.97	ug	89
49) cis-1,3-Dichloropropene	8.067	75	256701	101.50	ug	98
50) trans-1,3-Dichloropropene	8.785	75	243350	97.85	ug	98
51) 1,1,2-Trichloroethane	9.016	97	133090	95.73	ug	92
52) 1,3-Dichloropropane	9.220	76	253533	95.54	ug	# 44

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6033.D
 Acq On : 25 Jul 2017 13:40
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 4 Sample Multiplier: 1

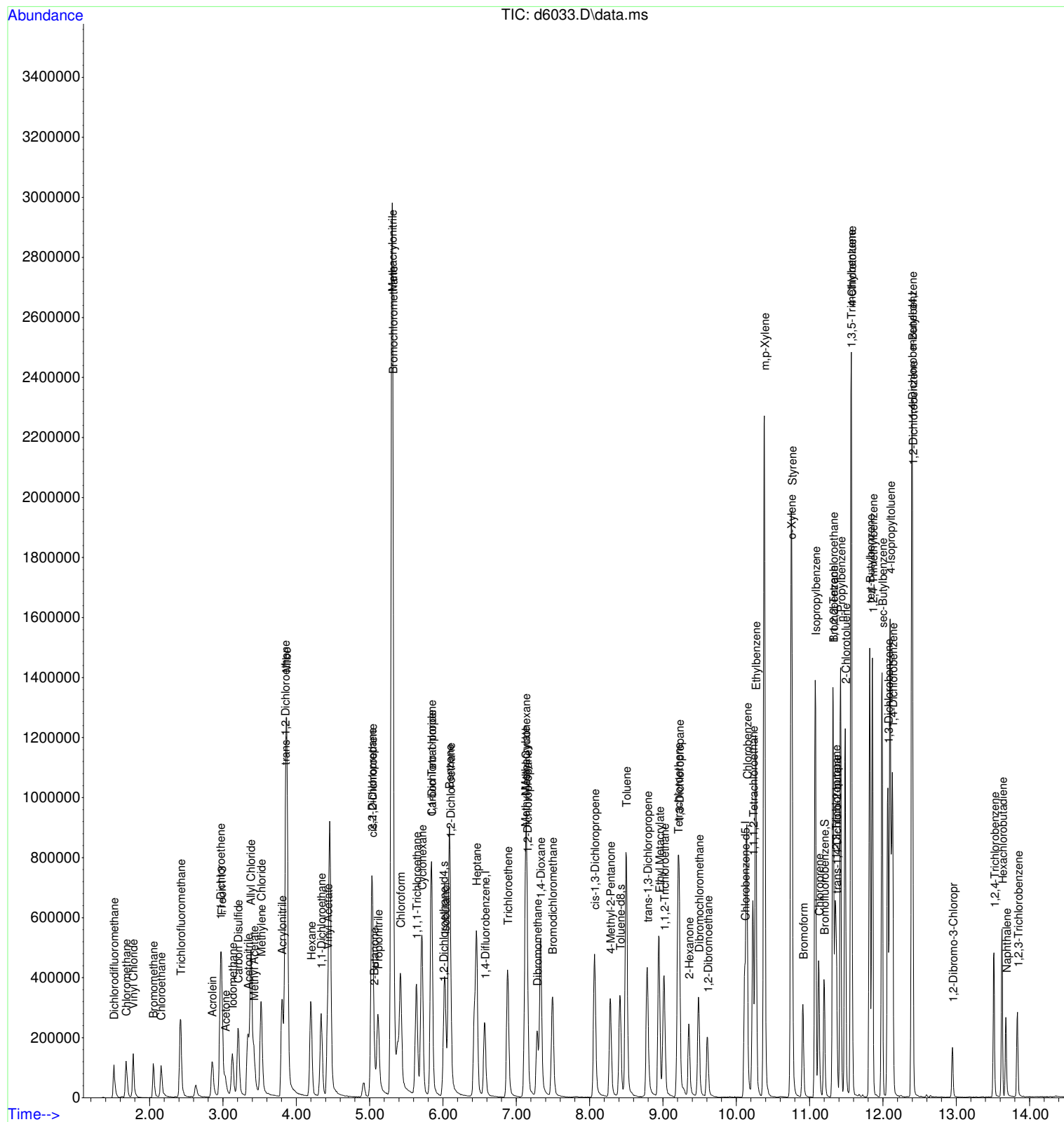
Quant Time: Aug 08 12:42:53 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:32:44 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	136093	98.63	ug	97
54) Dibromochloromethane	9.488	129	161903	94.47	ug	92
55) Bromoform	10.909	173	108772	97.83	ug	99
56) 4-Methyl-2-Pentanone	8.282	43	278177	88.93	ug	83
58) Toluene	8.497	92	370277	97.17	ug	97
59) Ethyl Metacrylate	8.948	69	261520	96.45	ug	97
60) Tetrachloroethene	9.205	164	106963	97.05	ug	97
61) 2-Hexanone	9.352	43	198350	106.32	ug	78
63) Chlorobenzene	10.143	112	385728	88.11	ug	98
64) 1,1,1,2-Tetrachloroethane	10.227	133	141592	90.43	ug	97
65) Ethylbenzene	10.264	106	220156	92.75	ug	98
66) m,p-Xylene	10.384	91	1166794	180.50	ug	90
67) o-Xylene	10.746	106	264081	89.08	ug	# 85
68) Styrene	10.757	104	440368	93.22	ug	72
69) Isopropylbenzene	11.076	105	709698	91.02	ug	96
70) Chloroprene	11.124	53	90800	194.24	ug	# 76
71) trans-1,4-Dichloro-2-b...	11.365	88	31368	106.03	ug	# 1
72) Bromobenzene	11.318	77	360072	92.14	ug	# 60
73) 1,2,3-Trichloropropane	11.354	75	261804	93.57	ug	# 69
74) 2-Chlorotoluene	11.485	91	495406	90.50	ug	98
75) 4-Chlorotoluene	11.569	91	575194	96.81	ug	95
76) 1,3,5-Trimethylbenzene	11.564	105	606753	93.51	ug	99
77) tert-Butylbenzene	11.821	119	494548	96.43	ug	99
78) 1,2,4-Trimethylbenzene	11.858	105	611691	92.93	ug	93
80) 1,1,2,2-Tetrachloroethane	11.318	83	187531	87.57	ug	95
81) n-Propylbenzene	11.423	91	827815	94.96	ug	95
82) 1,3-Dichlorobenzene	12.067	146	278110	95.03	ug	# 85
83) sec-Butylbenzene	11.989	105	709846	95.85	ug	98
84) 4-Isopropyltoluene	12.099	119	607221	95.40	ug	# 93
85) 1,4-Dichlorobenzene	12.130	146	269820	95.20	ug	# 78
86) 1,2-Dichlorobenzene	12.403	146	254432	95.88	ug	# 90
87) n-Butylbenzene	12.398	91	517564	98.51	ug	89
88) 1,2-Dibromo-3-Chloropr	12.948	157	25209	90.69	ug	# 25
89) 1,2,4-Trichlorobenzene	13.515	180	92790m	108.19	ug	
90) Hexachlorobutadiene	13.625	225	67207	94.67	ug	# 93
91) Naphthalene	13.677	128	145946	119.62	ug	# 95
92) 1,2,3-Trichlorobenzene	13.834	180	54547m	92.73	ug	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6033.D
 Acq On : 25 Jul 2017 13:40
 Operator :
 Sample : vstd100
 Misc : ical e8260w
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 12:42:53 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:32:44 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6034.D
 Acq On : 25 Jul 2017 14:01
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 12:43:52 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:33:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	175689	50.00	ug	-0.01
34) Chlorobenzene-d5	10.117	117	166498	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	89671	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.001	65	83051m	50.53	ug	0.00
57) Toluene-d8	8.408	98	213069	47.21	ug	0.00
79) Bromofluorobenzene	11.197	95	99772	47.15	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.495	85	179534	169.76	ug	98
3) Chloromethane	1.661	50	256725	173.45	ug	98
4) Vinyl Chloride	1.758	62	248058	181.77	ug	99
5) Bromomethane	2.030	94	113032m	147.22	ug	
6) Chloroethane	2.127	64	161453m	180.36	ug	
7) Acrolein	2.840	56	217943	801.22	ug	98
8) Trichlorofluoromethane	2.399	101	344103	170.82	ug	99
9) Freon113	2.965	101	207083	178.75	ug	83
10) 1,1-Dichloroethene	2.950	96	192272	183.71	ug	# 63
11) Allyl Chloride	3.364	41	1190711m	195.24	ug	
12) Carbon Disulfide	3.191	76	627039	195.68	ug	100
13) Acetone	3.018	43	170402m	178.53	ug	
14) Iodomethane	3.112	142	317841	234.99	ug	# 74
15) Acetonitrile	3.332	40	444587m	1606.71	ug	
16) Methyl Acetate	3.411	43	339856	185.84	ug	# 86
17) Methylene Chloride	3.505	84	242985	184.28	ug	# 30
18) Acrylonitrile	3.794	53	629675	877.06	ug	96
19) trans-1,2-Dichloroethene	3.836	96	226499	199.39	ug	# 78
20) Mtbe	3.857	73	1926560	386.81	ug	98
21) 1,1-Dichloroethane	4.329	63	511877	192.26	ug	90
22) Hexane	4.187	43	185828	176.40	ug	# 85
23) cis-1,2-Dichloroethene	5.026	61	482295	194.79	ug	# 78
24) 2,2-Dichloropropane	5.021	77	422124	190.74	ug	# 54
25) Propionitrile	5.115	54	629769	2287.67	ug	96
26) Bromochloromethane	5.309	128	131999	208.28	ug	# 1
27) Methacrylonitrile	5.309	67	1617404	2017.86	ug	# 59
28) Chloroform	5.414	83	509697	192.52	ug	96
29) Cyclohexane	5.708	84	347400	175.52	ug	# 54
30) 1,1-Dichloro-1-propene	5.833	75	363885	189.23	ug	# 66
31) 1,2-Dichloroethane	6.096	62	514466	202.42	ug	97
32) 2-Butanone	5.057	43	214123	182.06	ug	92
35) 1,1,1-Trichloroethane	5.634	97	449174	178.03	ug	100
36) Carbon Tetrachloride	5.833	117	393370	184.27	ug	100
37) Benzene	6.080	78	1083719	185.64	ug	100
38) Isobutanol	6.038	43	471251	3902.45	ug	# 73
39) Heptane	6.452	43	372625	160.27	ug	# 70
40) Trichloroethene	6.877	130	249190	188.12	ug	90
41) Methyl Cyclohexane	7.123	83	405453	168.79	ug	# 80
42) 1,2-Dichloropropane	7.144	63	299748	190.82	ug	87
43) Vinyl Acetate	4.418	43	741379	208.91	ug	# 100
44) Dibromomethane	7.286	174	168942	198.96	ug	# 53
45) 1,4-Dioxane	7.333	88	93357m	4154.59	ug	
46) Methyl Methacrylate	7.123	69	88020	165.19	ug	# 1
47) Bromodichloromethane	7.490	83	429227	190.87	ug	87
49) cis-1,3-Dichloropropene	8.067	75	477040	197.26	ug	97
50) trans-1,3-Dichloropropene	8.785	75	477325	202.56	ug	98
51) 1,1,2-Trichloroethane	9.016	97	259446	198.01	ug	95
52) 1,3-Dichloropropane	9.220	76	488411	195.37	ug	# 44

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6034.D
 Acq On : 25 Jul 2017 14:01
 Operator :
 Sample : vstd200
 Misc : ical e8260w
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 08 12:43:52 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:33:18 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.603	107	262286	200.21	ug	96
54) Dibromochloromethane	9.488	129	318058	197.54	ug	93
55) Bromoform	10.909	173	216676	205.68	ug	98
56) 4-Methyl-2-Pentanone	8.282	43	509570	175.87	ug	84
58) Toluene	8.497	92	672249	186.50	ug	94
59) Ethyl Metacrylate	8.943	69	507882	198.38	ug	96
60) Tetrachloroethene	9.205	164	196993	189.01	ug	97
61) 2-Hexanone	9.351	43	368146	203.92	ug	80
63) Chlorobenzene	10.143	112	740496	168.97	ug	100
64) 1,1,1,2-Tetrachloroethane	10.227	133	269964	171.21	ug	97
65) Ethylbenzene	10.264	106	405220	168.52	ug	96
66) m,p-Xylene	10.384	91	2157529	331.58	ug	91
67) o-Xylene	10.746	106	496292	166.82	ug	# 84
68) Styrene	10.762	104	869456	181.46	ug	76
69) Isopropylbenzene	11.076	105	1328264	168.90	ug	96
70) Chloroprene	11.124	53	178456	372.69	ug	79
71) trans-1,4-Dichloro-2-b...	11.370	88	64553	208.34	ug	# 1
72) Bromobenzene	11.318	77	707917	179.09	ug	# 61
73) 1,2,3-Trichloropropane	11.354	75	515271	181.41	ug	# 68
74) 2-Chlorotoluene	11.485	91	957303	173.62	ug	100
75) 4-Chlorotoluene	11.569	91	1120121	184.20	ug	96
76) 1,3,5-Trimethylbenzene	11.564	105	1144605	173.79	ug	100
77) tert-Butylbenzene	11.821	119	933120	177.93	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	1189298	178.27	ug	96
80) 1,1,2,2-Tetrachloroethane	11.318	83	371168	173.38	ug	94
81) n-Propylbenzene	11.422	91	1562703	175.96	ug	96
82) 1,3-Dichlorobenzene	12.067	146	556723	186.70	ug	# 84
83) sec-Butylbenzene	11.989	105	1328766	175.73	ug	99
84) 4-Isopropyltoluene	12.099	119	1155901	178.06	ug	# 93
85) 1,4-Dichlorobenzene	12.130	146	555174	192.15	ug	# 82
86) 1,2-Dichlorobenzene	12.408	146	511806	188.87	ug	92
87) n-Butylbenzene	12.392	91	988158	182.98	ug	89
88) 1,2-Dibromo-3-Chloropr	12.948	157	49525	176.80	ug	# 41
89) 1,2,4-Trichlorobenzene	13.514	180	194710m	214.50	ug	
90) Hexachlorobutadiene	13.625	225	125877	174.18	ug	# 95
91) Naphthalene	13.677	128	327382	247.91	ug	# 95
92) 1,2,3-Trichlorobenzene	13.834	180	117259m	196.42	ug	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6030.D
 Acq On : 25 Jul 2017 12:31
 Operator :
 Sample : vstd005
 Misc : Ical E8260w
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 08 12:38:57 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-060617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Jun 23 10:18:56 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.557	114	139161	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	127218	50.00	ug	0.01
62) 1,4-Dichlorobenzene-d4	12.115	152	60155	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.991	65	64705	66.74	ug	0.00
57) Toluene-d8	8.408	98	170680	57.02	ug	0.00
79) Bromofluorobenzene	11.197	95	70520	68.39	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.476	85	4683	5.69	ug	# 94
3) Chloromethane	1.651	50	6285	11.34	ug	97
4) Vinyl Chloride	1.748	62	5641	9.84	ug	88
5) Bromomethane	2.040	94	3709	10.24	ug	100
6) Chloroethane	2.137	64	4559	12.61	ug	86
7) Acrolein	2.824	56	4715	48.63	ug	96
8) Trichlorofluoromethane	2.389	101	9349	6.39	ug	96
9) Freon113	2.955	101	5179	7.17	ug	83
10) 1,1-Dichloroethene	2.939	96	4811	6.81	ug	# 70
11) Allyl Chloride	3.359	41	24966	17.08	ug	75
12) Carbon Disulfide	3.180	76	13816	7.94	ug	100
13) Acetone	3.007	43	4773	13.48	ug	82
14) Iodomethane	3.097	142	4705	6.68	ug	# 73
15) Acetonitrile	3.338	40	18709m	295.05	ug	
16) Methyl Acetate	3.411	43	8041	17.72	ug	# 81
17) Methylene Chloride	3.500	84	5724	6.91	ug	# 9
18) Acrylonitrile	3.799	53	10246	37.53	ug	99
19) trans-1,2-Dichloroethene	3.831	96	4651	5.73	ug	# 72
20) Mtbe	3.852	73	42728	15.63	ug	97
21) 1,1-Dichloroethane	4.318	63	11373	9.34	ug	89
22) Hexane	4.177	43	4669	21.62	ug	# 80
23) cis-1,2-Dichloroethene	5.026	61	10658m	9.37	ug	
24) 2,2-Dichloropropane	5.016	77	8999	7.29	ug	# 31
25) Propionitrile	5.110	54	10534	90.89	ug	94
26) Bromochloromethane	5.304	128	2587	4.63	ug	# 1
27) Methacrylonitrile	5.293	67	33346	84.65	ug	# 55
28) Chloroform	5.414	83	11581	7.08	ug	96
29) Cyclohexane	5.708	84	9000	8.72	ug	# 62
30) 1,1-Dichloro-1-propene	5.833	75	8161	7.84	ug	# 57
31) 1,2-Dichloroethane	6.090	62	10284	6.84	ug	94
32) 2-Butanone	5.073	43	5546	17.04	ug	73
35) 1,1,1-Trichloroethane	5.624	97	10138	5.81	ug	98
36) Carbon Tetrachloride	5.833	117	8071	5.43	ug	95
37) Benzene	6.075	78	22783	7.17	ug	100
38) Isobutanol	6.017	43	9567	315.32	ug	# 69
39) Heptane	6.452	43	9889	21.15	ug	# 40
40) Trichloroethene	6.882	130	4547	3.98	ug	# 69
41) Methyl Cyclohexane	7.113	83	10112	9.00	ug	# 83
42) 1,2-Dichloropropane	7.149	63	5583	9.04	ug	85
43) Vinyl Acetate	4.423	43	12041	12.89	ug	# 100
44) Dibromomethane	7.302	174	3320	3.24	ug	# 32
45) 1,4-Dioxane	7.328	88	1867m	118.69	ug	
46) Methyl Methacrylate	7.108	69	2096	10.78	ug	# 1
47) Bromodichloromethane	7.496	83	8750	6.71	ug	94
49) cis-1,3-Dichloropropene	8.062	75	9020	7.48	ug	95
50) trans-1,3-Dichloropropene	8.796	75	9409	7.90	ug	96
51) 1,1,2-Trichloroethane	9.011	97	5518	6.46	ug	93
52) 1,3-Dichloropropane	9.220	76	10053	7.46	ug	# 35

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6030.D
 Acq On : 25 Jul 2017 12:31
 Operator :
 Sample : vstd005
 Misc : Ical E8260w
 ALS Vial : 2 Sample Multiplier: 1

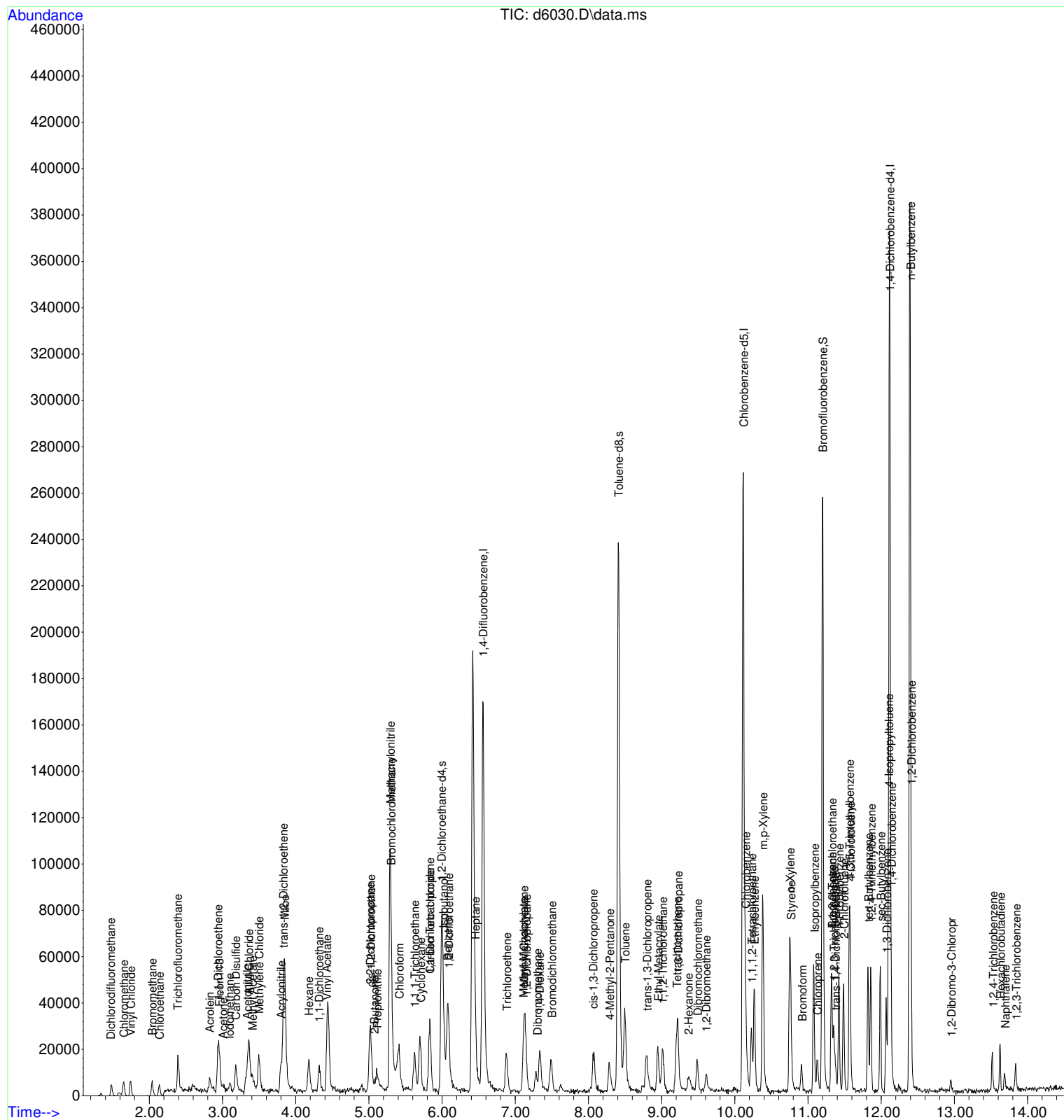
Quant Time: Aug 08 12:38:57 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-060617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Jun 23 10:18:56 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.603	107	5100	5.60	ug	90
54) Dibromochloromethane	9.488	129	6475	5.16	ug	95
55) Bromoform	10.914	173	4074	3.75	ug	87
56) 4-Methyl-2-Pentanone	8.287	43	12632	18.83	ug	79
58) Toluene	8.497	92	14546	6.21	ug	91
59) Ethyl Metacrylate	8.948	69	10547	9.04	ug	# 87
60) Tetrachloroethene	9.205	164	4478	3.94	ug	93
61) 2-Hexanone	9.362	43	5938	12.69	ug	80
63) Chlorobenzene	10.143	112	16093	6.95	ug	94
64) 1,1,1,2-Tetrachloroethane	10.227	133	5397	5.62	ug	84
65) Ethylbenzene	10.264	106	8025	6.63	ug	# 87
66) m,p-Xylene	10.379	91	46240	15.26	ug	86
67) o-Xylene	10.751	106	10643	7.34	ug	89
68) Styrene	10.762	104	16779	7.12	ug	78
69) Isopropylbenzene	11.082	105	26978	7.09	ug	89
70) Chloroprene	11.124	53	3361	28.72	ug	# 68
71) trans-1,4-Dichloro-2-b...	11.370	88	885	7.85	ug	# 1
72) Bromobenzene	11.323	77	13498	8.74	ug	# 59
73) 1,2,3-Trichloropropane	11.349	75	9625	9.54	ug	# 73
74) 2-Chlorotoluene	11.485	91	20329	7.94	ug	91
75) 4-Chlorotoluene	11.575	91	20516	7.17	ug	95
76) 1,3,5-Trimethylbenzene	11.564	105	23288	7.06	ug	98
77) tert-Butylbenzene	11.821	119	16974	5.93	ug	95
78) 1,2,4-Trimethylbenzene	11.858	105	23545	7.31	ug	89
80) 1,1,2,2-Tetrachloroethane	11.323	83	7755	9.99	ug	89
81) n-Propylbenzene	11.423	91	29608	7.86	ug	96
82) 1,3-Dichlorobenzene	12.067	146	10276	5.49	ug	# 88
83) sec-Butylbenzene	11.989	105	25724	7.59	ug	96
84) 4-Isopropyltoluene	12.099	119	22793	7.20	ug	# 90
85) 1,4-Dichlorobenzene	12.136	146	10654	5.74	ug	# 1
86) 1,2-Dichlorobenzene	12.408	146	9170	5.23	ug	# 1
87) n-Butylbenzene	12.398	91	18549	9.44	ug	# 85
88) 1,2-Dibromo-3-Chloropr	12.954	157	1036	5.91	ug	# 36
89) 1,2,4-Trichlorobenzene	13.520	180	3353	5.30	ug	96
90) Hexachlorobutadiene	13.625	225	2724	4.39	ug	# 87
91) Naphthalene	13.688	128	4914	7.14	ug	# 92
92) 1,2,3-Trichlorobenzene	13.834	180	2665	6.07	ug	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\072517\
 Data File : d6030.D
 Acq On : 25 Jul 2017 12:31
 Operator :
 Sample : vstd005
 Misc : Ical E8260w
 ALS Vial : 2 Sample Multiplier: 1

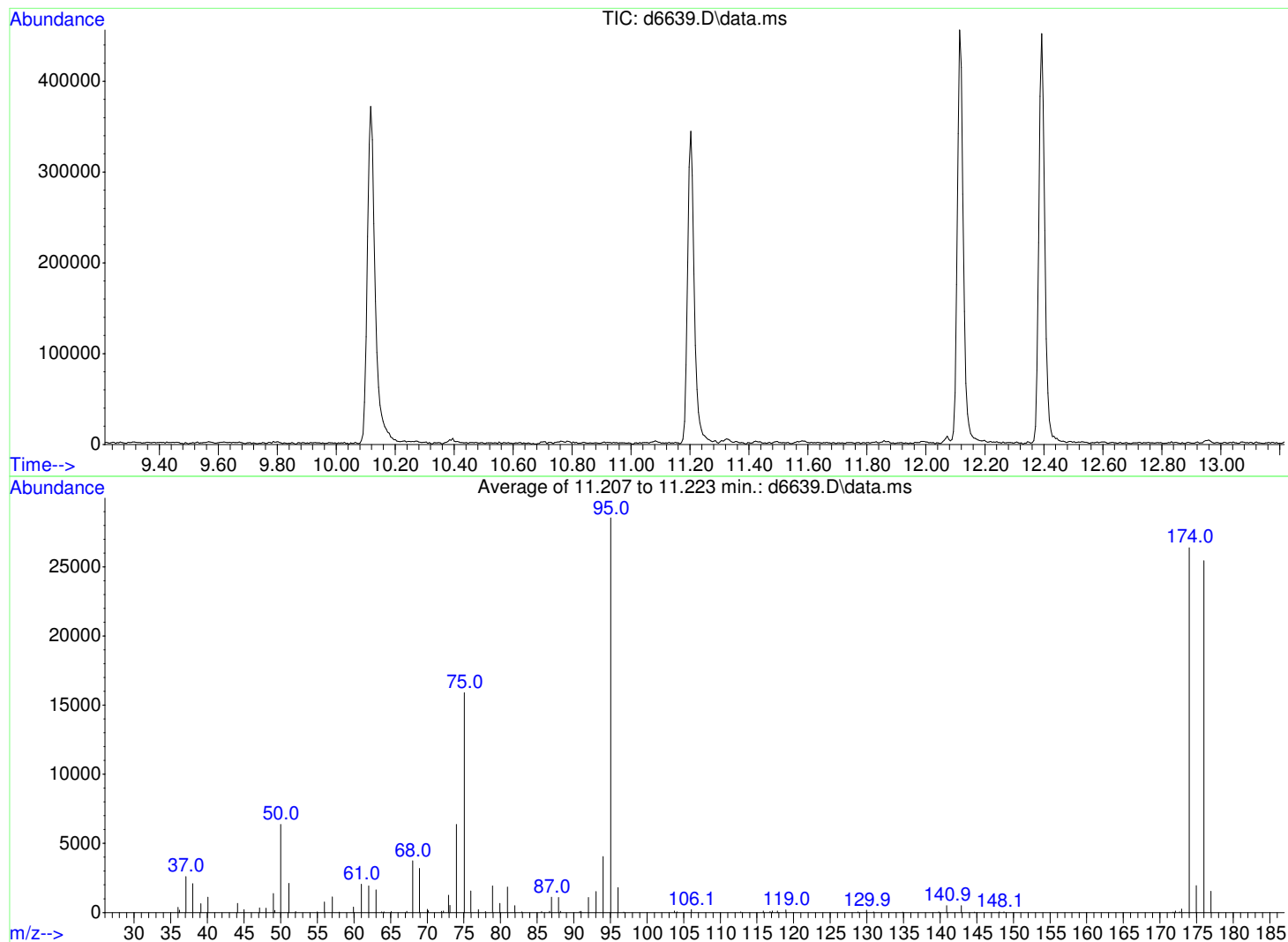
Quant Time: Aug 08 12:38:57 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-060617.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Fri Jun 23 10:18:56 2017
 Response via : Initial Calibration



Data Path : C:\msdchem\1\DATA\081017\
Data File : d6639.D
Acq On : 10 Aug 2017 12:38
Operator :
Sample : bfb
Misc : tune bfb
ALS Vial : 51 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Title : Voa Calibration 8260 Water
Last Update : Tue Aug 08 12:43:57 2017



Spectrum Information: Average of 11.207 to 11.223 min.

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	22.3	6377	PASS
75	95	30	60	55.7	15904	PASS
95	95	100	100	100.0	28553	PASS
96	95	5	9	6.3	1802	PASS
173	174	0.00	2	1.0	261	PASS
174	95	50	100	92.4	26386	PASS
175	174	5	9	7.4	1953	PASS
176	174	95	101	96.5	25453	PASS
177	176	5	9	6.1	1545	PASS

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6640.D
 Acq On : 10 Aug 2017 12:59
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 13:45:28 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.578	114	261383	50.00	ug	0.02
34) Chlorobenzene-d5	10.117	117	227288	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	104609	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.017	65	114264m	46.63	ug	0.02
57) Toluene-d8	8.418	98	314353	51.60	ug	0.01
79) Bromofluorobenzene	11.197	95	118229	48.45	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.524	85	64749	42.44	ug	99
3) Chloromethane	1.690	50	100228	46.76	ug	98
4) Vinyl Chloride	1.787	62	79034	39.65	ug	98
5) Bromomethane	2.069	94	33668m	30.98	ug	
6) Chloroethane	2.176	64	46191m	32.34	ug	
7) Acrolein	2.871	56	63481	156.81	ug	99
8) Trichlorofluoromethane	2.436	101	135956	46.73	ug	99
9) Freon113	2.997	101	75873	44.98	ug	89
10) 1,1-Dichloroethene	2.986	96	62243	40.64	ug	# 69
11) Allyl Chloride	3.395	41	333398m	36.92	ug	
12) Carbon Disulfide	3.228	76	184202m	38.81	ug	
13) Acetone	3.049	43	54468m	37.84	ug	
14) Iodomethane	3.149	142	88779	42.63	ug	# 69
15) Acetonitrile	3.359	40	109446	244.77	ug	# 82
16) Methyl Acetate	3.443	43	109936m	40.99	ug	
17) Methylene Chloride	3.537	84	81376	42.14	ug	# 50
18) Acrylonitrile	3.825	53	168646	154.91	ug	# 92
19) trans-1,2-Dichloroethene	3.867	96	71702	42.45	ug	# 83
20) Mtbe	3.883	73	591762	80.39	ug	100
21) 1,1-Dichloroethane	4.350	63	163994m	41.72	ug	
22) Hexane	4.213	43	52921	34.58	ug	95
23) cis-1,2-Dichloroethene	5.042	61	147734	40.32	ug	# 81
24) 2,2-Dichloropropane	5.042	77	145157	44.50	ug	# 65
25) Propionitrile	5.120	54	157739	374.37	ug	96
26) Bromochloromethane	5.325	128	45417	47.77	ug	# 32
27) Methacrylonitrile	5.314	67	471576	394.75	ug	# 70
28) Chloroform	5.430	83	167032	42.73	ug	98
29) Cyclohexane	5.729	84	121505	42.30	ug	# 72
30) 1,1-Dichloro-1-propene	5.854	75	115026	40.64	ug	# 73
31) 1,2-Dichloroethane	6.111	62	160939	42.46	ug	100
32) 2-Butanone	5.078	43	60914m	35.45	ug	
35) 1,1,1-Trichloroethane	5.650	97	155840	46.26	ug	98
36) Carbon Tetrachloride	5.849	117	136897	47.73	ug	94
37) Benzene	6.090	78	338787	43.13	ug	100
38) Isobutanol	6.027	43	110193	671.73	ug	# 75
39) Heptane	6.463	43	113394	37.20	ug	# 82
40) Trichloroethene	6.887	130	87945	49.22	ug	95
41) Methyl Cyclohexane	7.134	83	144821	45.59	ug	# 85
42) 1,2-Dichloropropane	7.155	63	90200	42.45	ug	86
43) Vinyl Acetate	4.439	43	207554	42.46	ug	# 100
44) Dibromomethane	7.291	174	60571	52.31	ug	# 72
45) 1,4-Dioxane	7.333	88	26009	755.04	ug	# 78
46) Methyl Methacrylate	7.134	69	29027	41.34	ug	# 1
47) Bromodichloromethane	7.501	83	138979	45.69	ug	88
49) cis-1,3-Dichloropropene	8.072	75	143640	43.63	ug	98
50) trans-1,3-Dichloropropene	8.790	75	133940	41.53	ug	97
51) 1,1,2-Trichloroethane	9.021	97	83370	46.70	ug	97
52) 1,3-Dichloropropane	9.226	76	148529	43.73	ug	# 57

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6640.D
 Acq On : 10 Aug 2017 12:59
 Operator :
 Sample : vstd050
 Misc : ccv e8260w
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 10 13:45:28 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) 1,2-Dibromoethane	9.608	107	83155	46.49	ug	97
54) Dibromochloromethane	9.488	129	103807	47.35	ug	90
55) Bromoform	10.909	173	66591	46.04	ug	97
56) 4-Methyl-2-Pentanone	8.287	43	137908m	35.73	ug	
58) Toluene	8.502	92	221552	45.64	ug	97
59) Ethyl Metacrylate	8.948	69	145405	41.67	ug	98
60) Tetrachloroethene	9.210	164	72625	51.61	ug	97
61) 2-Hexanone	9.357	43	89490m	36.17	ug	
63) Chlorobenzene	10.143	112	232651	46.96	ug	98
64) 1,1,1,2-Tetrachloroethane	10.227	133	95078	53.22	ug	95
65) Ethylbenzene	10.269	106	130575	48.06	ug	99
66) m,p-Xylene	10.384	91	679022	92.62	ug	93
67) o-Xylene	10.751	106	159203	47.45	ug	89
68) Styrene	10.762	104	241105	43.95	ug	76
69) Isopropylbenzene	11.076	105	417148	46.93	ug	96
70) Chloroprene	11.124	53	36552	66.34	ug	82
71) trans-1,4-Dichloro-2-b...	11.370	88	12361	33.91	ug	# 1
72) Bromobenzene	11.323	77	182774	40.48	ug	# 66
73) 1,2,3-Trichloropropane	11.349	75	119832	36.85	ug	# 74
74) 2-Chlorotoluene	11.485	91	263880	42.14	ug	98
75) 4-Chlorotoluene	11.574	91	291468	41.75	ug	98
76) 1,3,5-Trimethylbenzene	11.564	105	333850	44.62	ug	99
77) tert-Butylbenzene	11.821	119	284908	47.62	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	326350	42.86	ug	94
80) 1,1,2,2-Tetrachloroethane	11.318	83	92550	38.07	ug	96
81) n-Propylbenzene	11.422	91	439405	43.46	ug	98
82) 1,3-Dichlorobenzene	12.067	146	144634	42.14	ug	# 91
83) sec-Butylbenzene	11.989	105	378732	44.00	ug	100
84) 4-Isopropyltoluene	12.099	119	324012	43.74	ug	# 92
85) 1,4-Dichlorobenzene	12.130	146	138429	41.39	ug	# 78
86) 1,2-Dichlorobenzene	12.408	146	131590	42.09	ug	# 87
87) n-Butylbenzene	12.398	91	237545	38.36	ug	92
88) 1,2-Dibromo-3-Chloropr	12.948	157	10845	33.97	ug	# 32
89) 1,2,4-Trichlorobenzene	13.514	180	38122	35.55	ug	97
90) Hexachlorobutadiene	13.624	225	39721	48.36	ug	95
91) Naphthalene	13.682	128	28672	17.76	ug	98
92) 1,2,3-Trichlorobenzene	13.834	180	16125	23.23	ug	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6647.D
 Acq On : 10 Aug 2017 15:28
 Operator :
 Sample : vblk
 Misc : mblk e8260w
 ALS Vial : 8 Sample Multiplier: 1

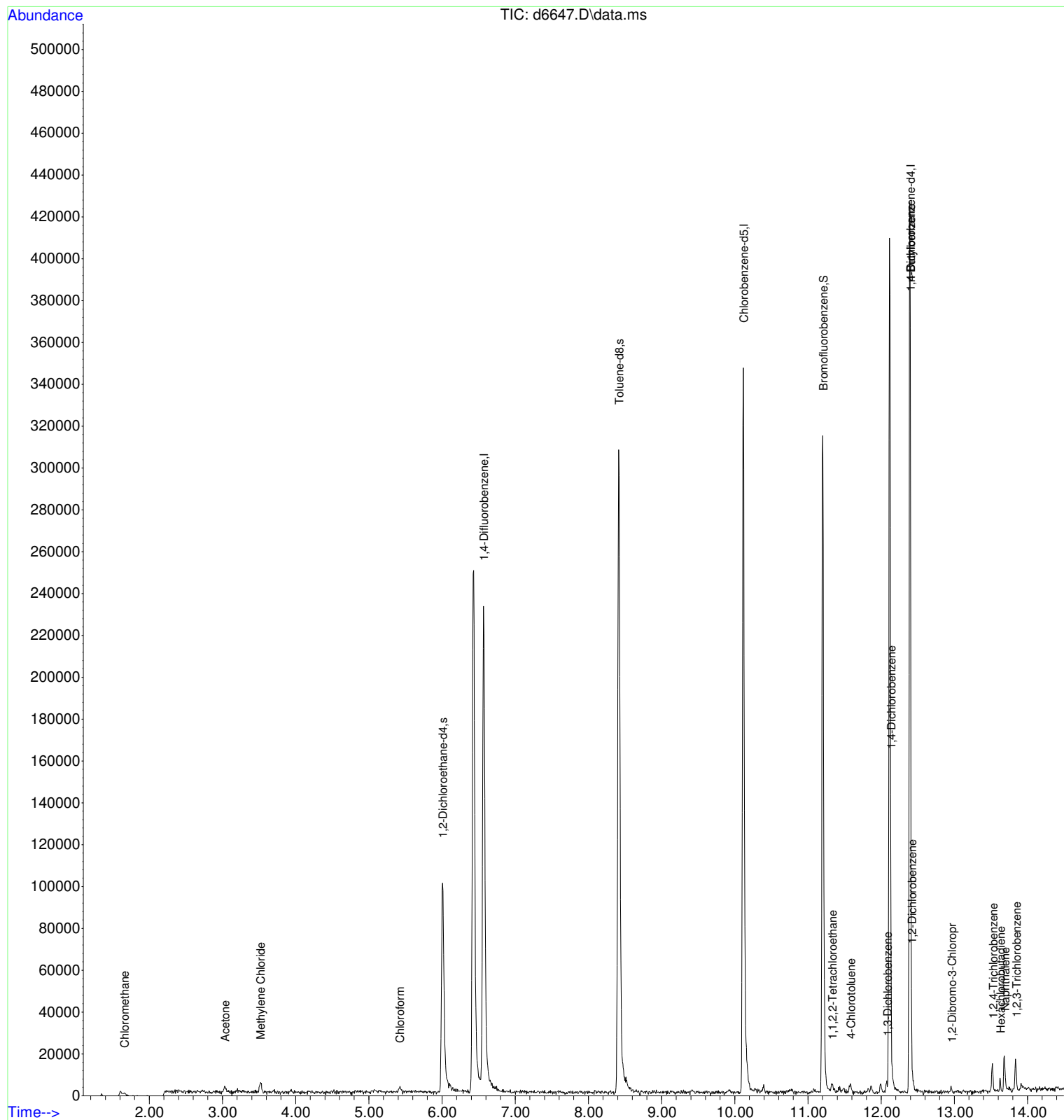
Quant Time: Aug 11 08:58:48 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

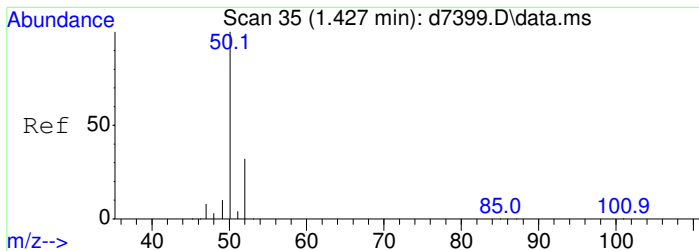
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	198082	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	174799	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	81213	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	91041	49.03	ug	0.00
57) Toluene-d8	8.413	98	235914	50.35	ug	0.00
79) Bromofluorobenzene	11.202	95	90132	47.58	ug	0.00
Target Compounds						Qvalue
3) Chloromethane	1.661	50	1027	0.63	ug	# 63
13) Acetone	3.034	43	3890	3.57	ug	80
17) Methylene Chloride	3.516	84	1853	1.27	ug	# 38
28) Chloroform	5.419	83	2010	0.68	ug	88
75) 4-Chlorotoluene	11.580	91	2299	0.42	ug	94
80) 1,1,2,2-Tetrachloroethane	11.328	83	876	0.46	ug	# 90
82) 1,3-Dichlorobenzene	12.078	146	1934	0.73	ug	# 89
85) 1,4-Dichlorobenzene	12.130	146	2460	0.95	ug	# 1
86) 1,2-Dichlorobenzene	12.413	146	2047	0.84	ug	# 1
87) n-Butylbenzene	12.398	91	3125	0.65	ug	89
88) 1,2-Dibromo-3-Chloropr	12.959	157	736	2.97	ug	92
89) 1,2,4-Trichlorobenzene	13.520	180	3217	3.86	ug	98
90) Hexachlorobutadiene	13.625	225	1165	1.83	ug	# 88
91) Naphthalene	13.682	128	12630	10.08	ug	100
92) 1,2,3-Trichlorobenzene	13.840	180	3759	6.98	ug	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6647.D
Acq On : 10 Aug 2017 15:28
Operator :
Sample : vblk
Misc : mblk e8260w
ALS Vial : 8 Sample Multiplier: 1

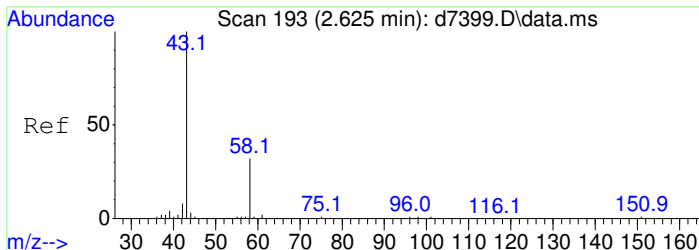
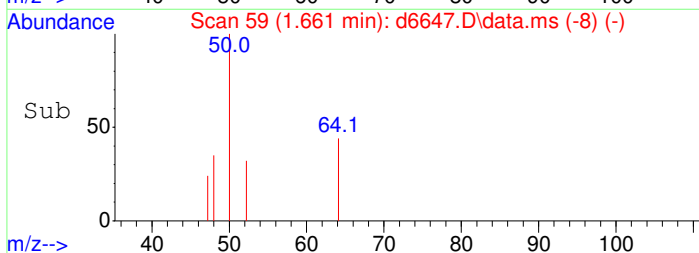
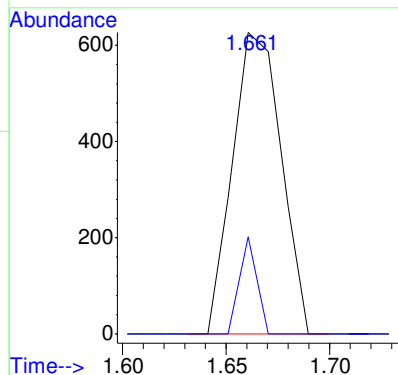
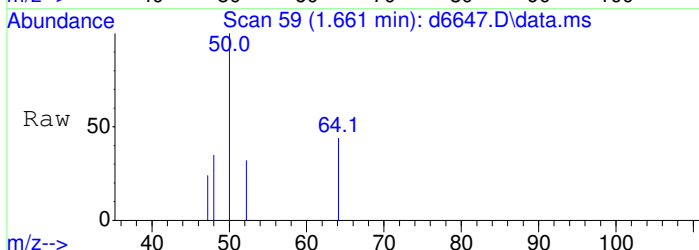
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Response via : Initial Calibration





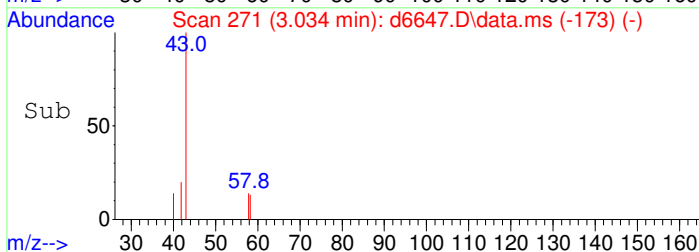
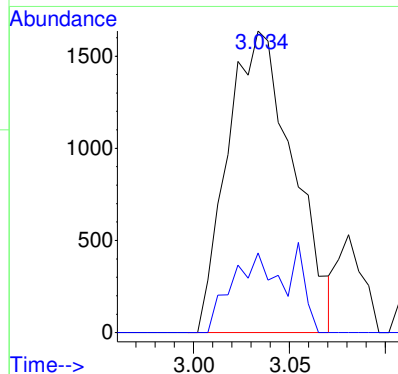
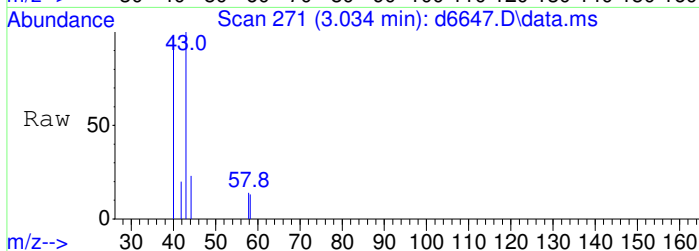
#3
Chloromethane
Concen: 0.63 ug
RT: 1.661 min Scan# 59
Delta R.T. 0.000 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

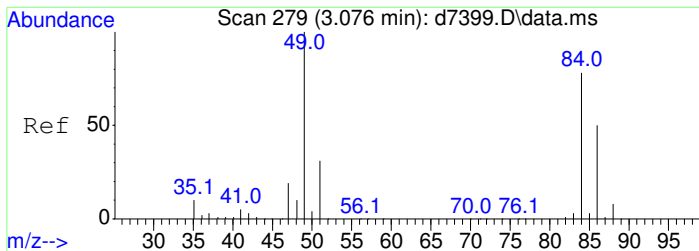
Tgt Ion: 50 Resp: 1027
Ion Ratio Lower Upper
50 100
52 11.5 25.8 38.6#



#13
Acetone
Concen: 3.57 ug
RT: 3.034 min Scan# 271
Delta R.T. 0.016 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

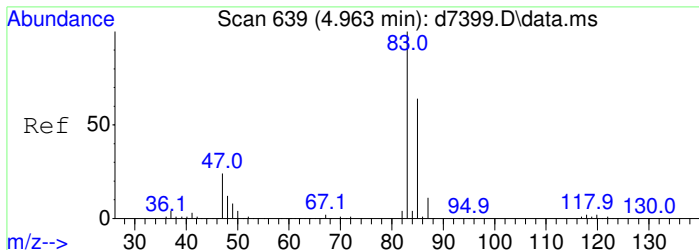
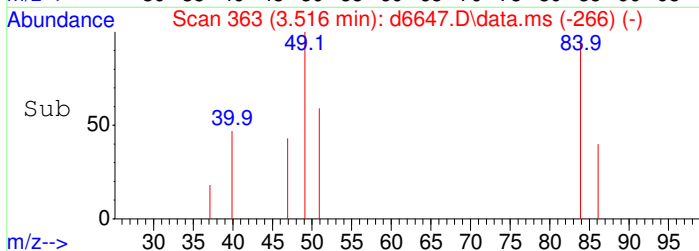
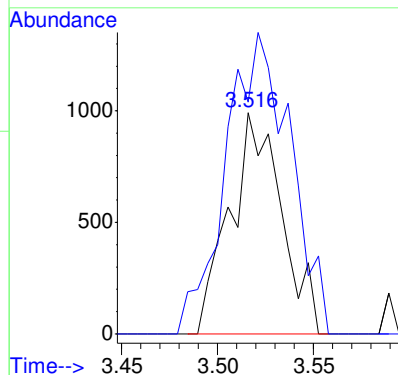
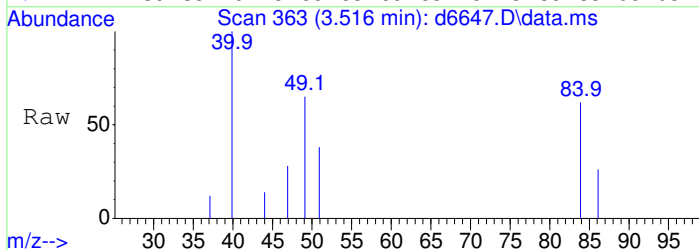
Tgt Ion: 43 Resp: 3890
Ion Ratio Lower Upper
43 100
58 18.6 9.5 49.5





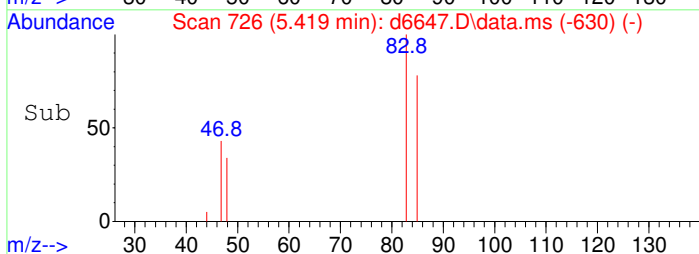
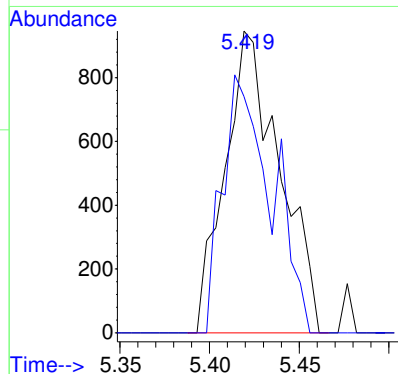
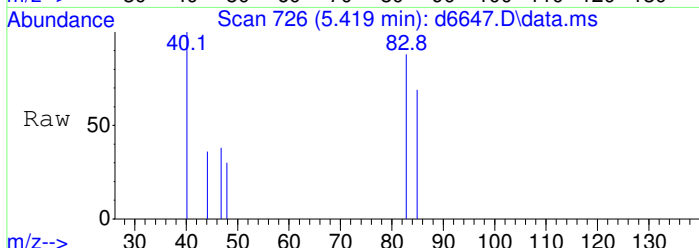
#17
Methylene Chloride
Concen: 1.27 ug
RT: 3.516 min Scan# 363
Delta R.T. 0.010 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

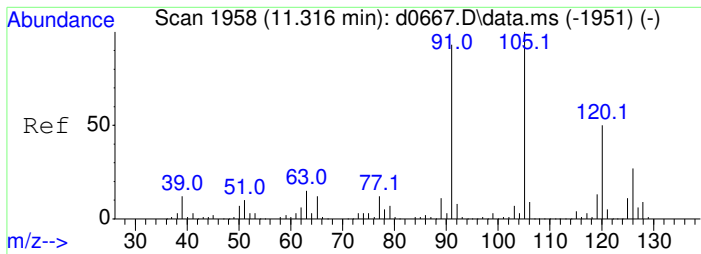
Tgt Ion: 84 Resp: 1853
Ion Ratio Lower Upper
84 100
49 169.9 85.6 125.6#



#28
Chloroform
Concen: 0.68 ug
RT: 5.419 min Scan# 726
Delta R.T. 0.005 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

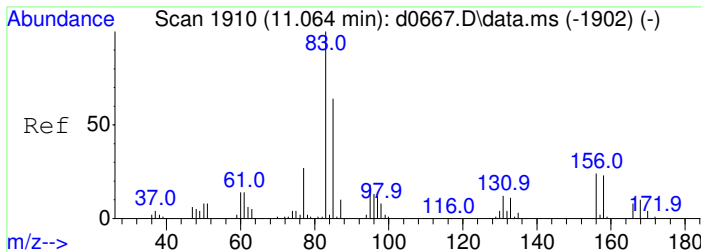
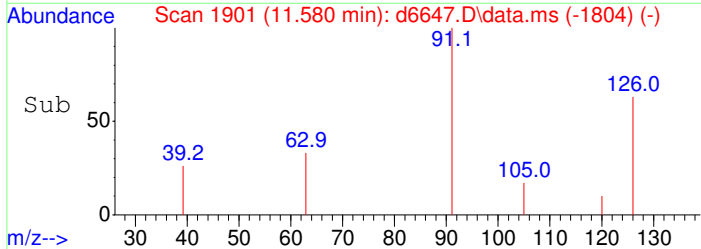
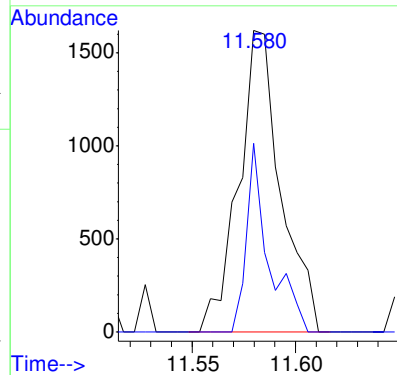
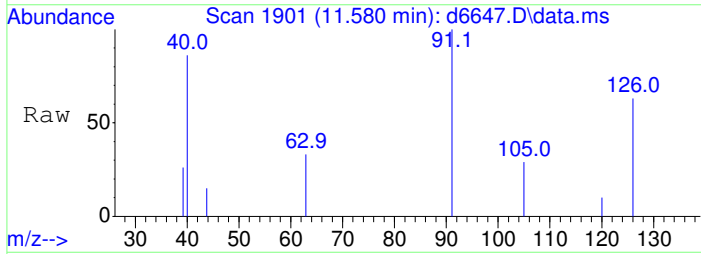
Tgt Ion: 83 Resp: 2010
Ion Ratio Lower Upper
83 100
85 76.5 46.7 86.7





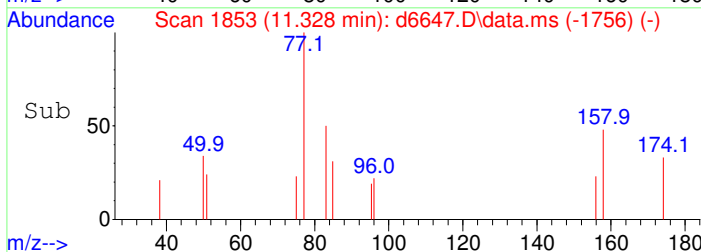
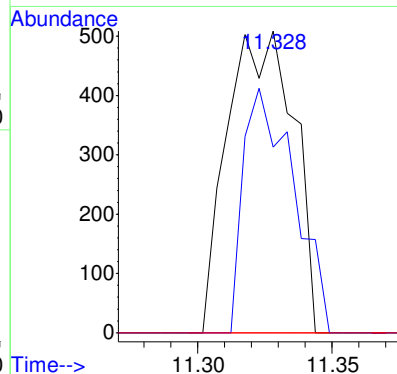
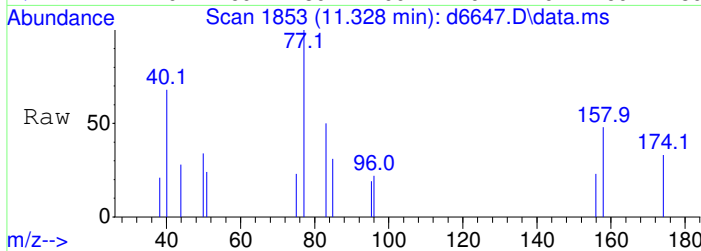
#75
4-Chlorotoluene
Concen: 0.42 ug
RT: 11.580 min Scan# 1901
Delta R.T. 0.010 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

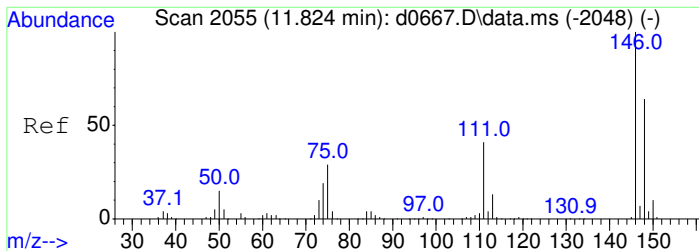
Tgt Ion: 91 Resp: 2299
Ion Ratio Lower Upper
91 100
126 32.8 23.5 35.3



#80
1,1,2,2-Tetrachloroethane
Concen: 0.46 ug
RT: 11.328 min Scan# 1853
Delta R.T. 0.010 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

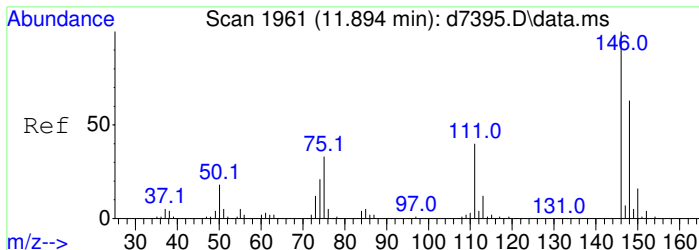
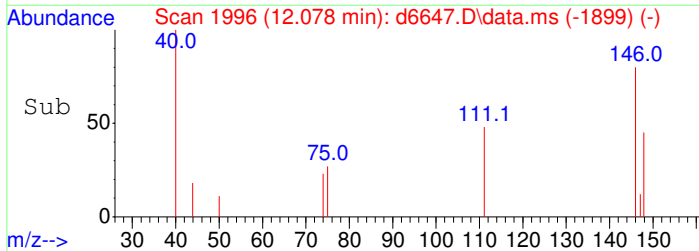
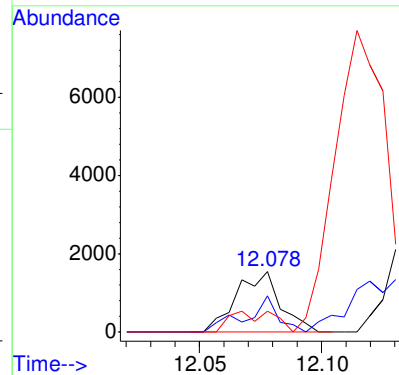
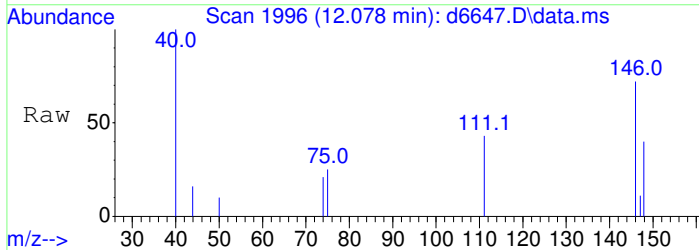
Tgt Ion: 83 Resp: 876
Ion Ratio Lower Upper
83 100
85 61.4 43.0 83.0
168 0.0 0.0 36.6





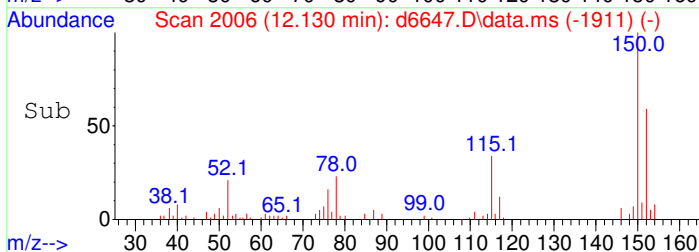
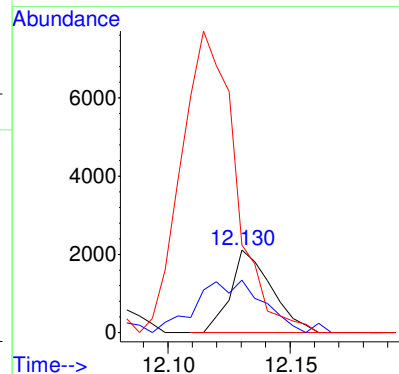
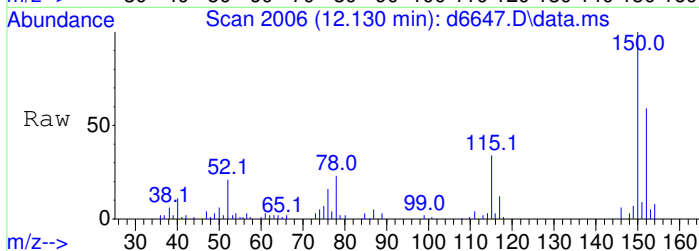
#82
 1,3-Dichlorobenzene
 Concen: 0.73 ug
 RT: 12.078 min Scan# 1996
 Delta R.T. 0.010 min
 Lab File: d6647.D
 Acq: 10 Aug 2017 15:28

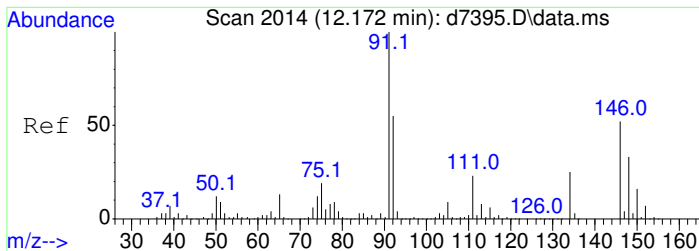
Tgt Ion:146	Resp:	1934	
Ion Ratio	Lower	Upper	
146	100		
111	43.2	29.4	44.2
75	34.3	22.8	34.2#



#85
 1,4-Dichlorobenzene
 Concen: 0.95 ug
 RT: 12.130 min Scan# 2006
 Delta R.T. 0.000 min
 Lab File: d6647.D
 Acq: 10 Aug 2017 15:28

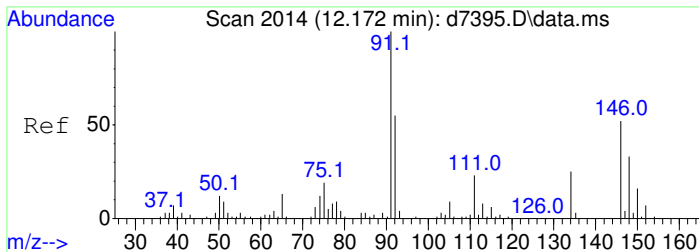
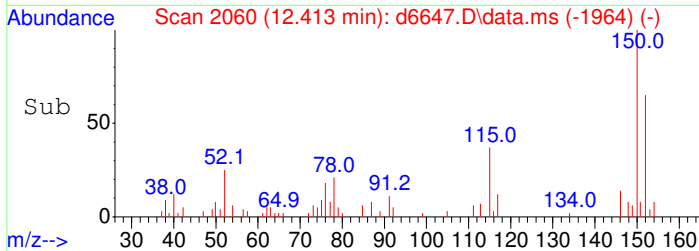
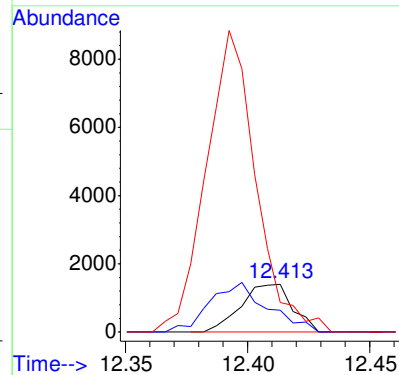
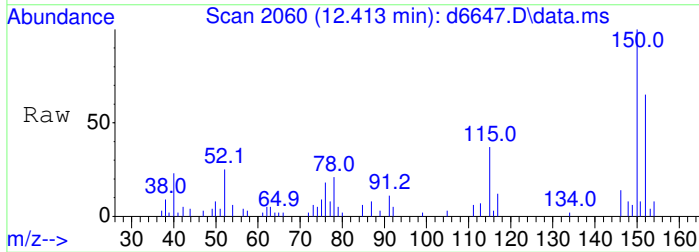
Tgt Ion:146	Resp:	2460	
Ion Ratio	Lower	Upper	
146	100		
111	102.9	29.0	43.6#
75	487.4	21.4	32.2#





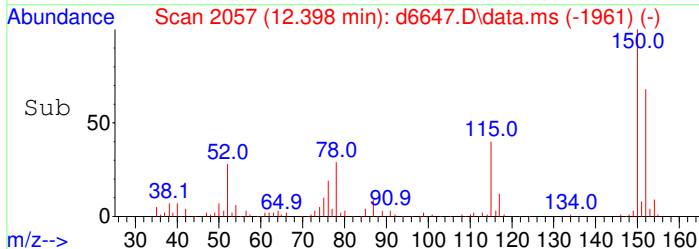
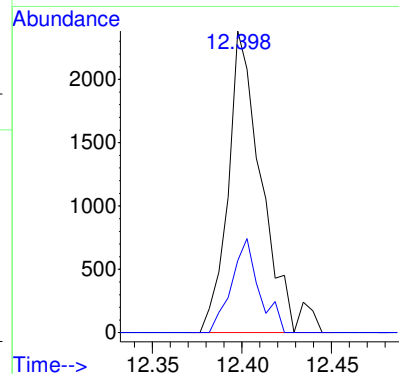
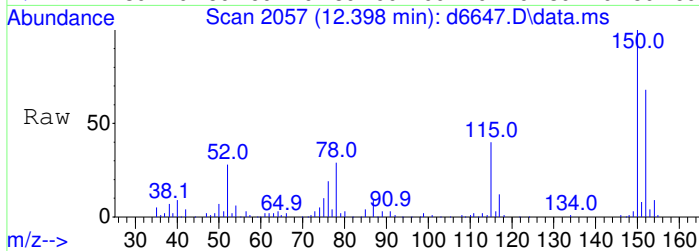
#86
1,2-Dichlorobenzene
Concen: 0.84 ug
RT: 12.413 min Scan# 2060
Delta R.T. 0.005 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

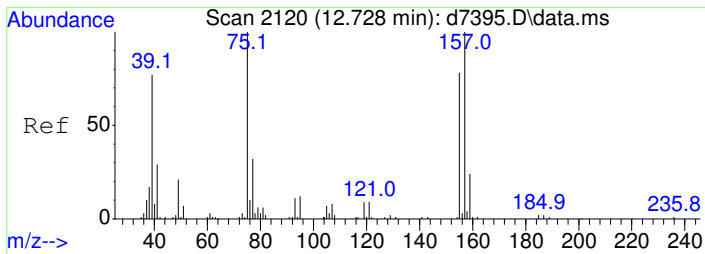
Tgt Ion: 146 Resp: 2047
Ion Ratio Lower Upper
146 100
111 115.8 33.5 50.3#
75 612.5 29.3 43.9#



#87
n-Butylbenzene
Concen: 0.65 ug
RT: 12.398 min Scan# 2057
Delta R.T. 0.005 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

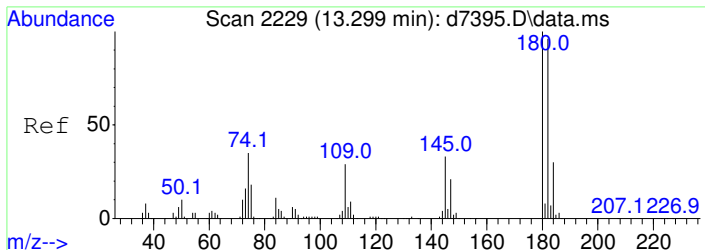
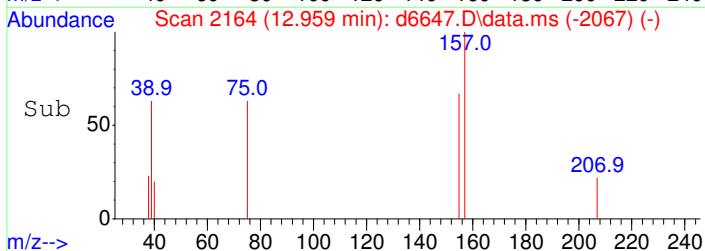
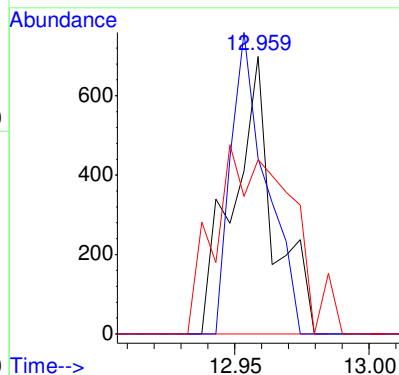
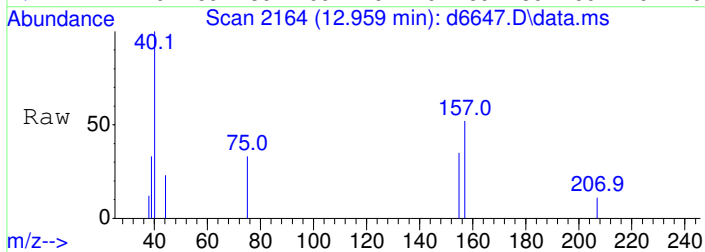
Tgt Ion: 91 Resp: 3125
Ion Ratio Lower Upper
91 100
134 25.5 25.4 38.0





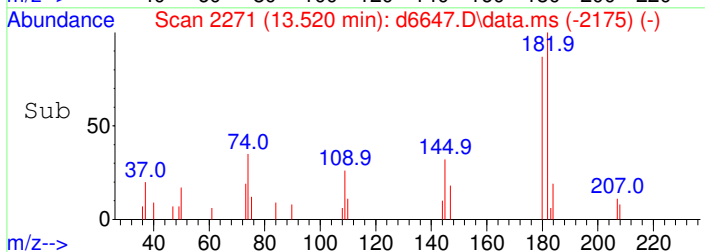
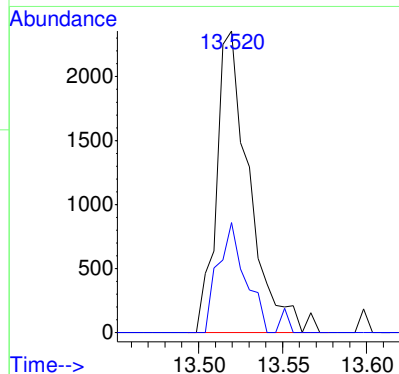
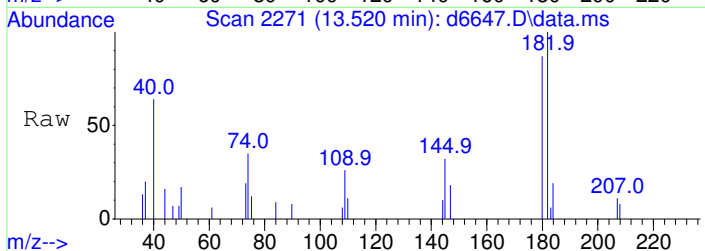
#88
 1,2-Dibromo-3-Chloropr
 Concen: 2.97 ug
 RT: 12.959 min Scan# 2164
 Delta R.T. 0.011 min
 Lab File: d6647.D
 Acq: 10 Aug 2017 15:28

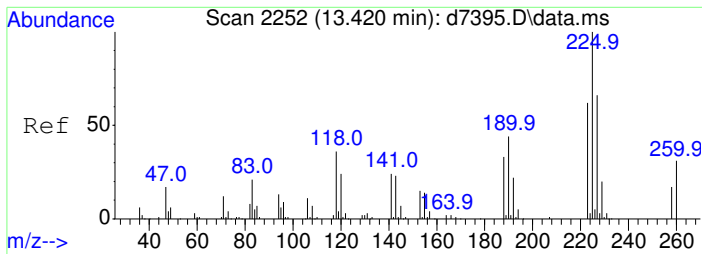
Tgt Ion:157 Resp: 736
 Ion Ratio Lower Upper
 157 100
 75 63.2 56.9 85.3
 39 62.8 47.1 70.7



#89
 1,2,4-Trichlorobenzene
 Concen: 3.86 ug
 RT: 13.520 min Scan# 2271
 Delta R.T. 0.005 min
 Lab File: d6647.D
 Acq: 10 Aug 2017 15:28

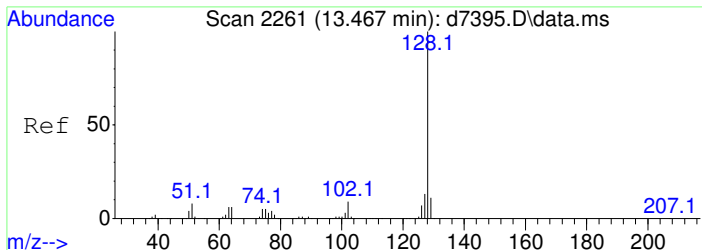
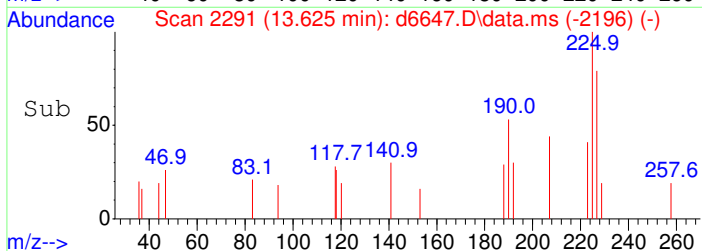
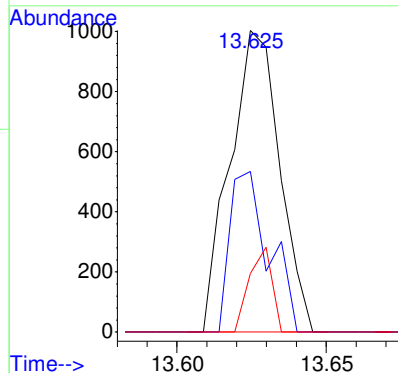
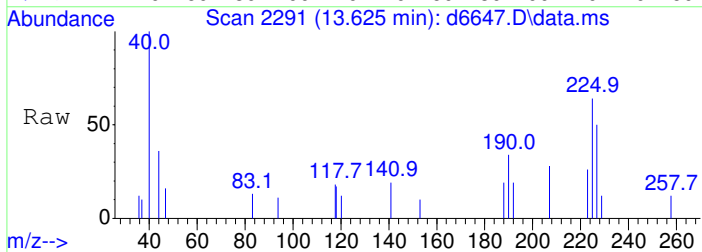
Tgt Ion:180 Resp: 3217
 Ion Ratio Lower Upper
 180 100
 145 30.1 23.0 34.6





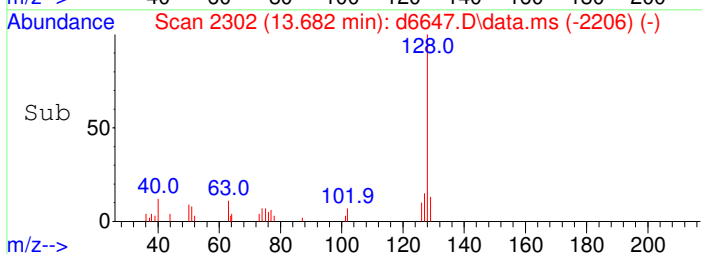
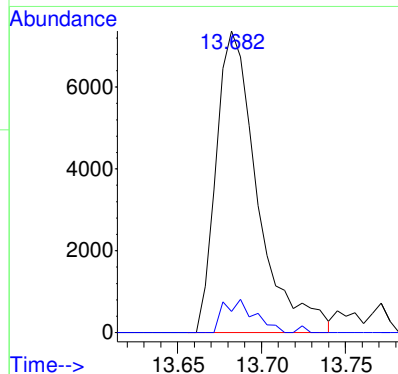
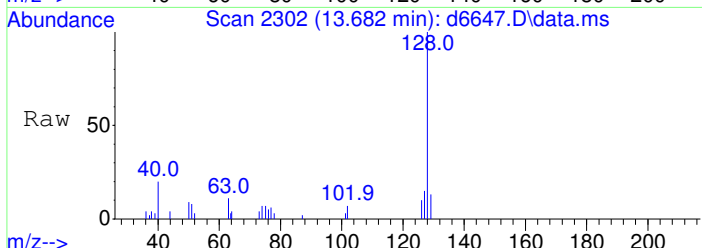
#90
Hexachlorobutadiene
Concen: 1.83 ug
RT: 13.625 min Scan# 2291
Delta R.T. 0.000 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

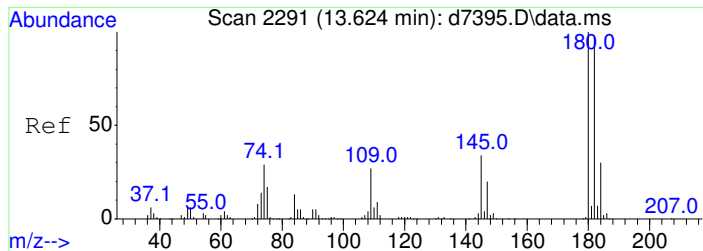
Tgt Ion:225	Resp:	1165	
Ion Ratio	Lower	Upper	
225	100		
190	41.7	38.0	57.0
258	12.9	17.8	26.6#



#91
Naphthalene
Concen: 10.08 ug
RT: 13.682 min Scan# 2302
Delta R.T. 0.005 min
Lab File: d6647.D
Acq: 10 Aug 2017 15:28

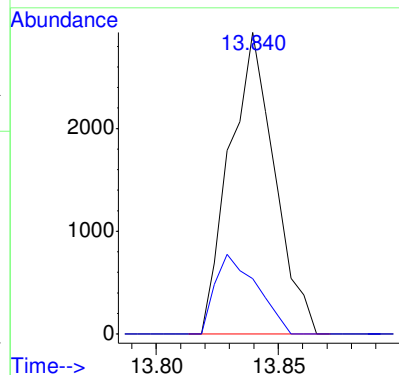
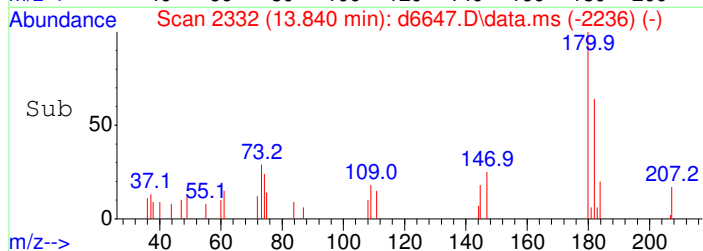
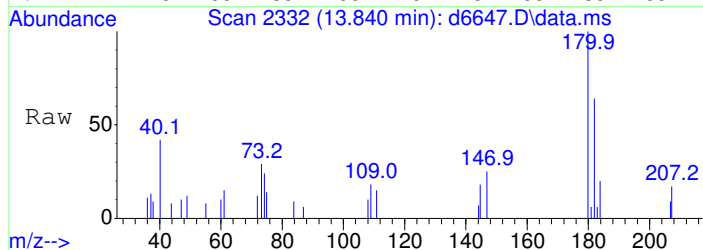
Tgt Ion:128	Resp:	12630	
Ion Ratio	Lower	Upper	
128	100		
102	8.3	6.6	9.8





#92
 1,2,3-Trichlorobenzene
 Concen: 6.98 ug
 RT: 13.840 min Scan# 2332
 Delta R.T. 0.005 min
 Lab File: d6647.D
 Acq: 10 Aug 2017 15:28

Tgt Ion:180 Resp: 3759
 Ion Ratio Lower Upper
 180 100
 145 24.6 24.6 36.8



Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6648.D
 Acq On : 10 Aug 2017 15:49
 Operator :
 Sample : 170801036-001a
 Misc : samp e8260w
 ALS Vial : 9 Sample Multiplier: 1

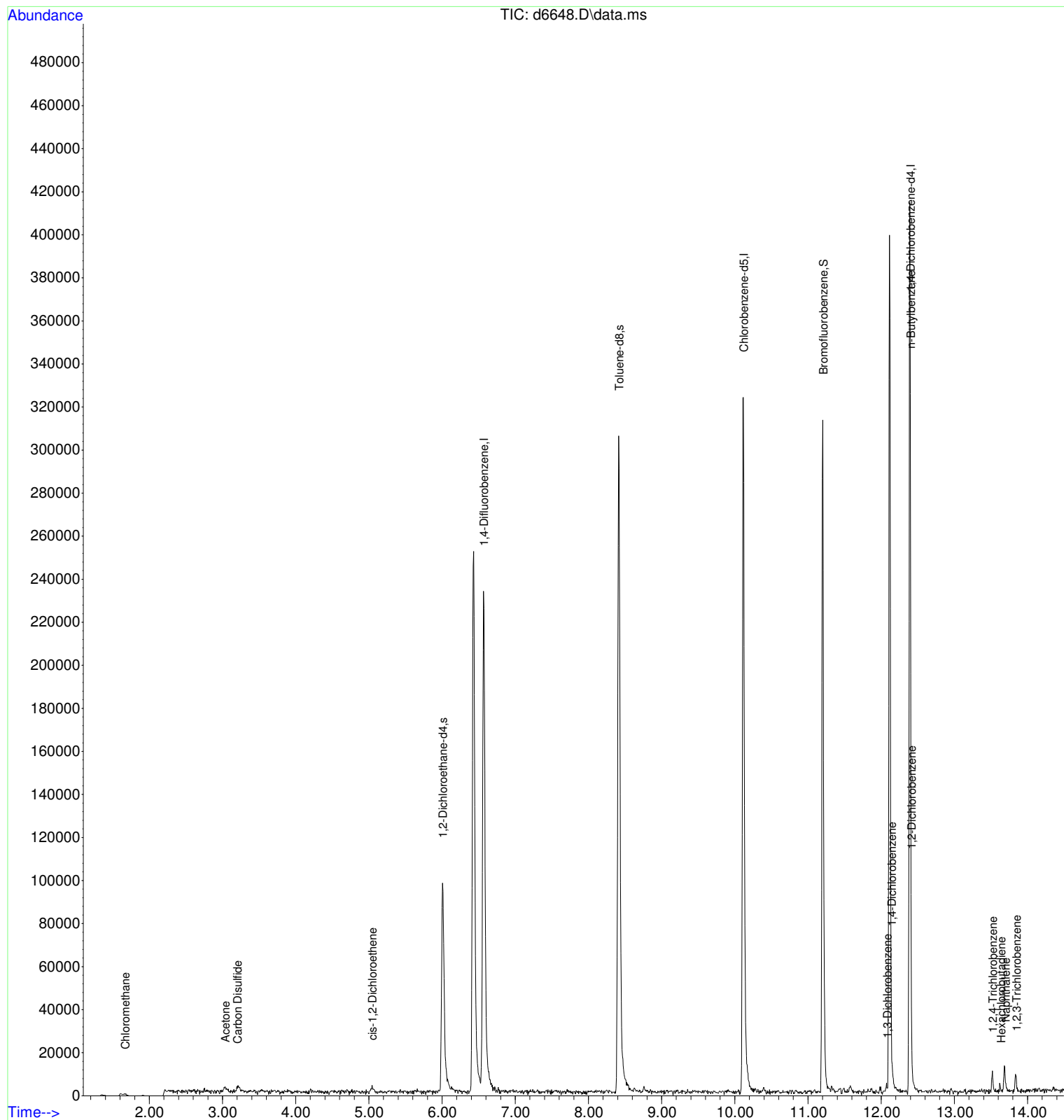
Quant Time: Aug 11 09:00:27 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

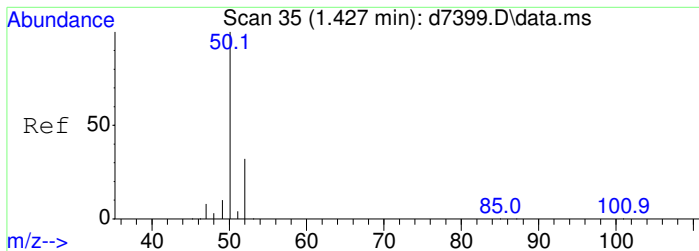
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	203916	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	171105	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	79356	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	88176	46.12	ug	0.00
57) Toluene-d8	8.413	98	231793	50.54	ug	0.00
79) Bromofluorobenzene	11.202	95	86496	46.72	ug	0.00
Target Compounds						Qvalue
3) Chloromethane	1.670	50	1055	0.63	ug	# 61
12) Carbon Disulfide	3.201	76	1737	0.47	ug	100
13) Acetone	3.039	43	3799	3.38	ug	74
23) cis-1,2-Dichloroethene	5.042	61	1502	0.53	ug	99
82) 1,3-Dichlorobenzene	12.072	146	1172	0.45	ug	# 73
85) 1,4-Dichlorobenzene	12.135	146	1469	0.58	ug	# 1
86) 1,2-Dichlorobenzene	12.408	146	1517	0.64	ug	# 1
87) n-Butylbenzene	12.398	91	2234	0.48	ug	# 86
89) 1,2,4-Trichlorobenzene	13.514	180	2106	2.59	ug	97
90) Hexachlorobutadiene	13.630	225	486	0.78	ug	# 68
91) Naphthalene	13.687	128	9431	7.70	ug	# 94
92) 1,2,3-Trichlorobenzene	13.839	180	2182m	4.14	ug	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6648.D
Acq On : 10 Aug 2017 15:49
Operator :
Sample : 170801036-001a
Misc : samp e8260w
ALS Vial : 9 Sample Multiplier: 1

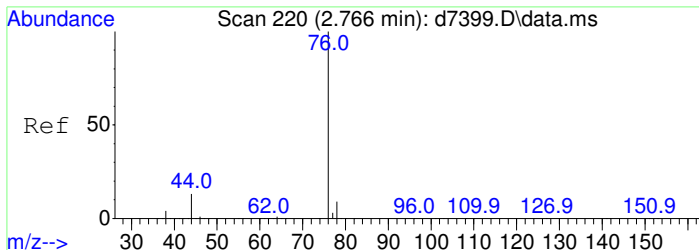
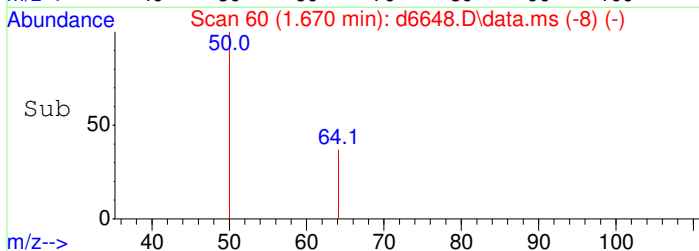
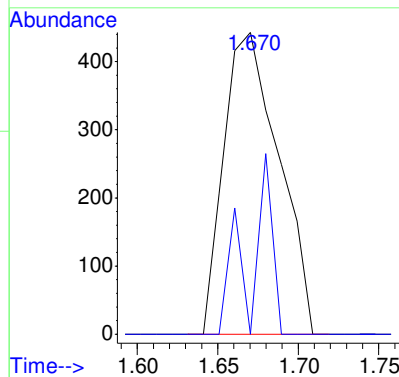
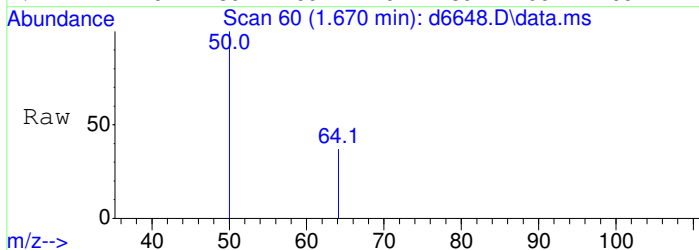
Quant Time: Aug 11 09:00:27 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration





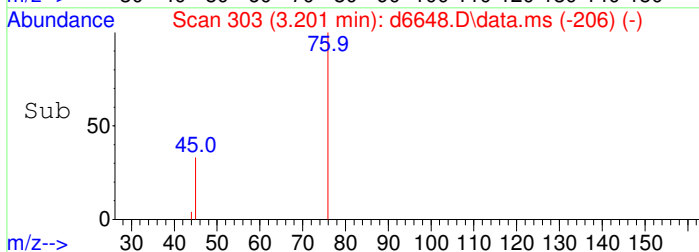
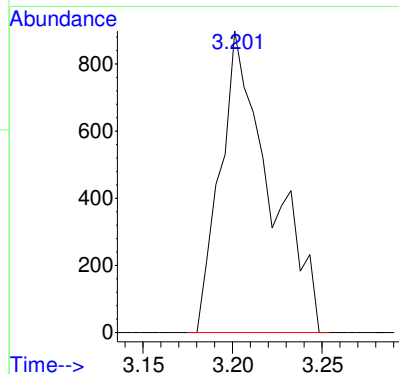
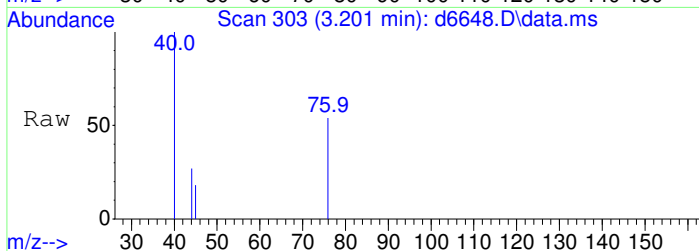
#3
Chloromethane
Concen: 0.63 ug
RT: 1.670 min Scan# 60
Delta R.T. 0.010 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

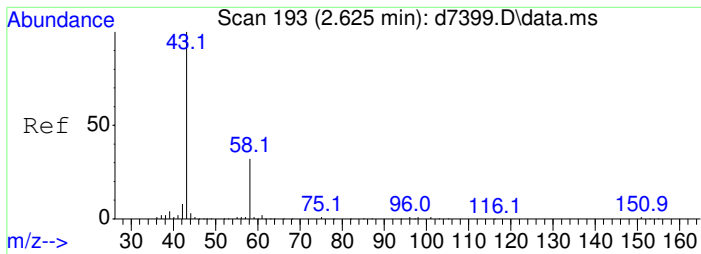
Tgt Ion: 50 Resp: 1055
Ion Ratio Lower Upper
50 100
52 10.2 25.8 38.6#



#12
Carbon Disulfide
Concen: 0.47 ug
RT: 3.201 min Scan# 303
Delta R.T. 0.010 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

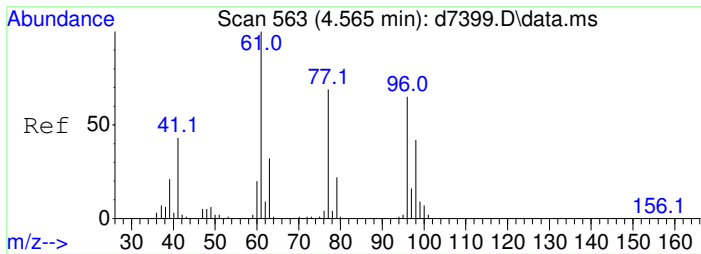
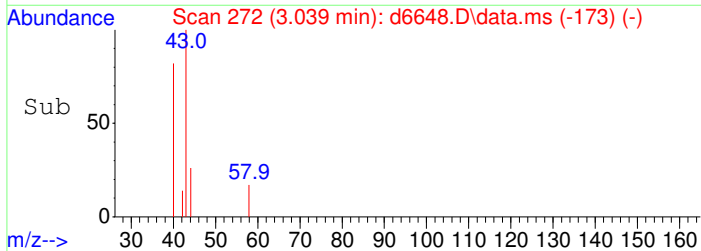
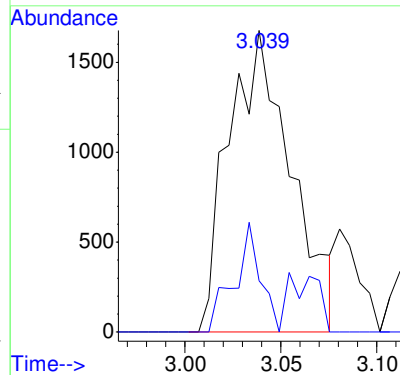
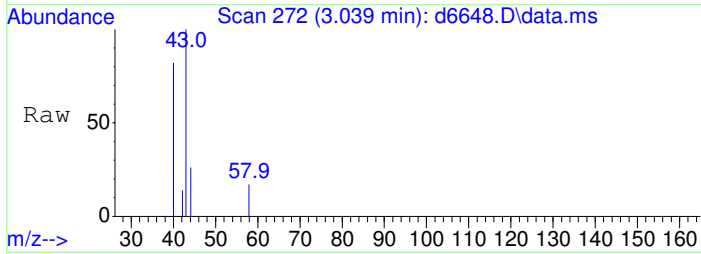
Tgt Ion: 76 Resp: 1737





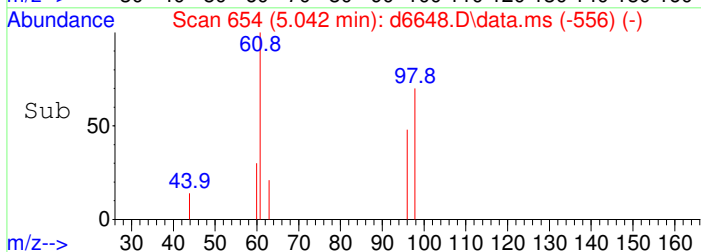
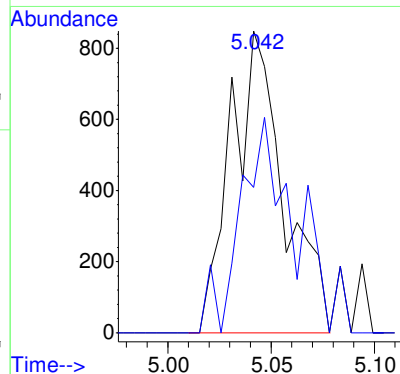
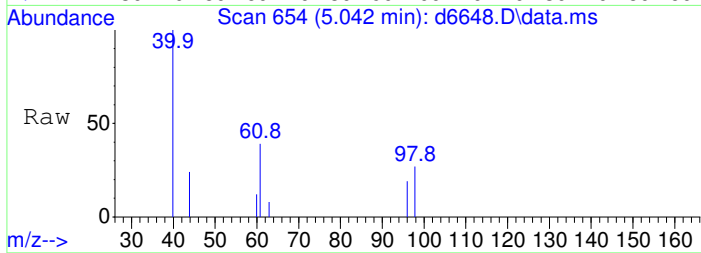
#13
Acetone
Concen: 3.38 ug
RT: 3.039 min Scan# 272
Delta R.T. 0.021 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

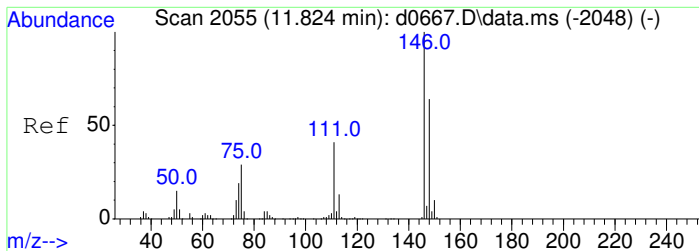
Tgt Ion: 43 Resp: 3799
Ion Ratio Lower Upper
43 100
58 15.3 9.5 49.5



#23
cis-1,2-Dichloroethene
Concen: 0.53 ug
RT: 5.042 min Scan# 654
Delta R.T. 0.016 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

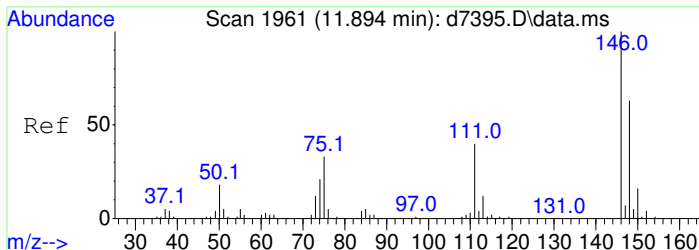
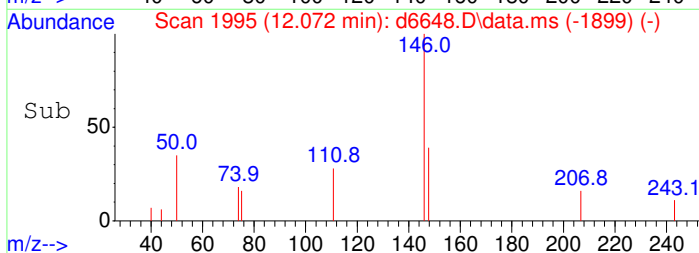
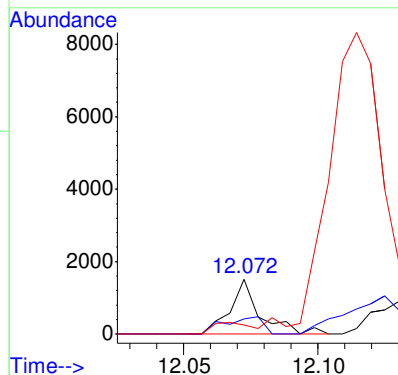
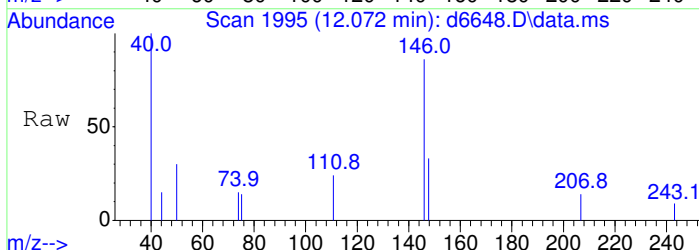
Tgt Ion: 61 Resp: 1502
Ion Ratio Lower Upper
61 100
96 75.4 59.7 89.5





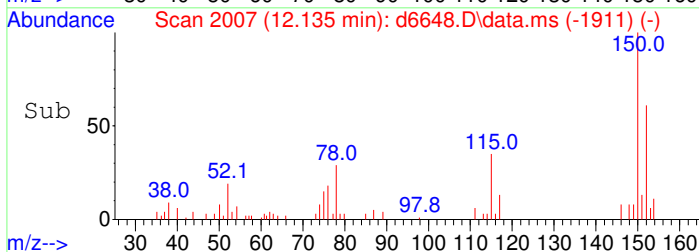
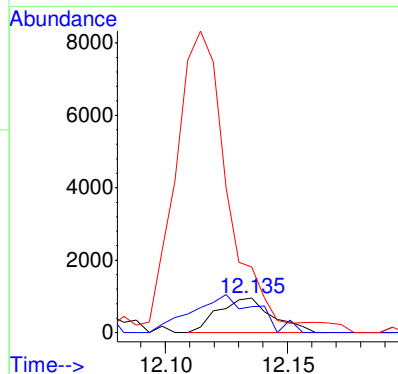
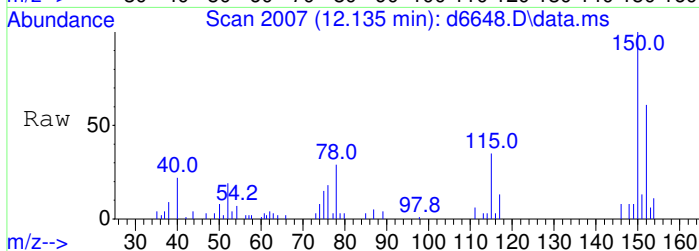
#82
 1,3-Dichlorobenzene
 Concen: 0.45 ug
 RT: 12.072 min Scan# 1995
 Delta R.T. 0.005 min
 Lab File: d6648.D
 Acq: 10 Aug 2017 15:49

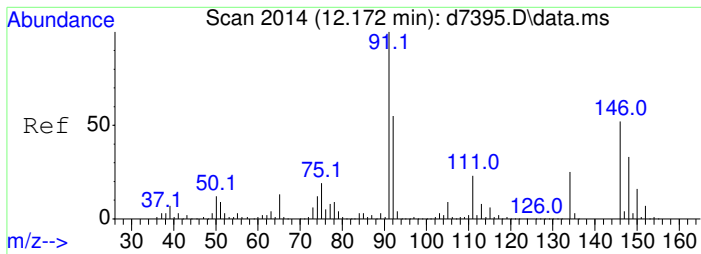
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.5	29.4	44.2
75	0.0	22.8	34.2#



#85
 1,4-Dichlorobenzene
 Concen: 0.58 ug
 RT: 12.135 min Scan# 2007
 Delta R.T. 0.005 min
 Lab File: d6648.D
 Acq: 10 Aug 2017 15:49

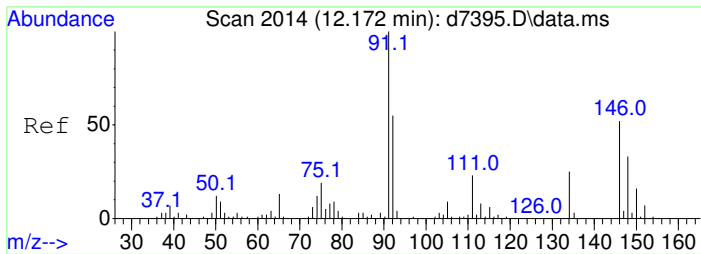
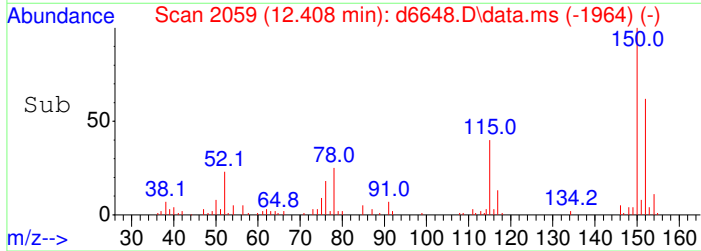
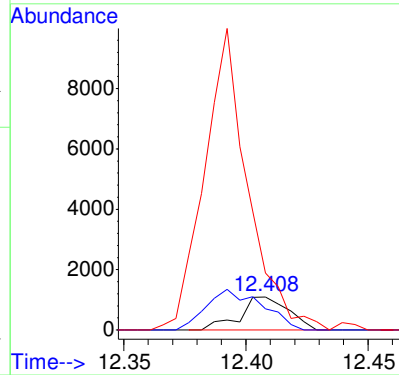
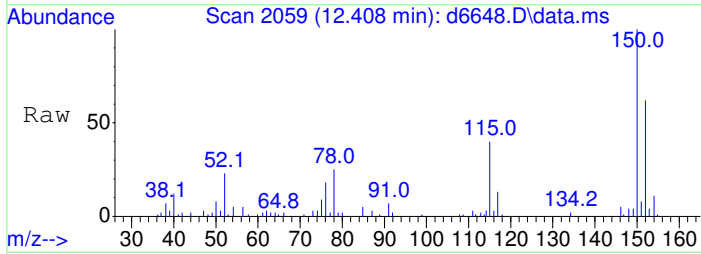
Tgt Ion	Ratio	Lower	Upper
146	100		
111	132.5	29.0	43.6#
75	880.1	21.4	32.2#





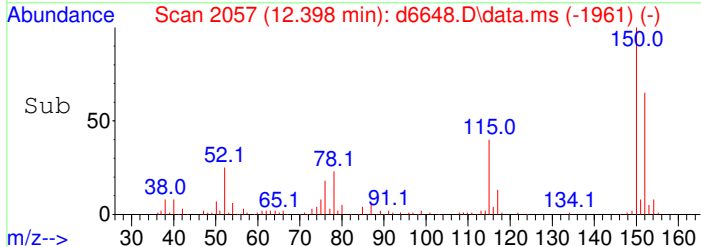
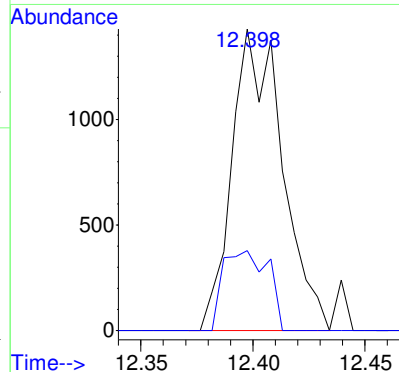
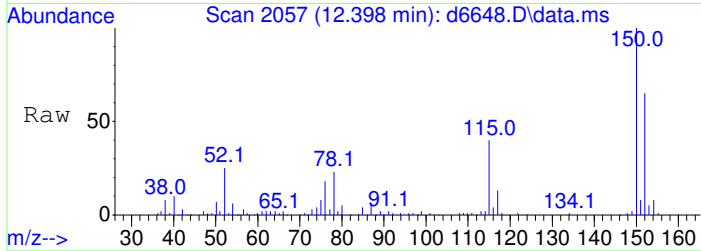
#86
1,2-Dichlorobenzene
Concen: 0.64 ug
RT: 12.408 min Scan# 2059
Delta R.T. -0.000 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

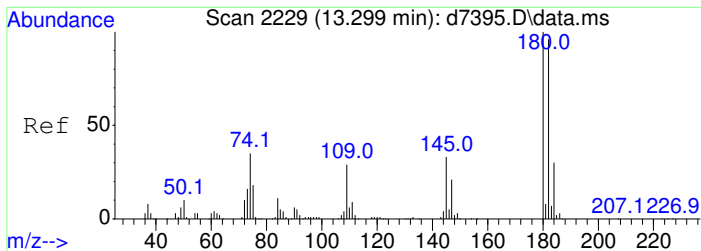
Tgt Ion: 146 Resp: 1517
Ion Ratio Lower Upper
146 100
111 141.9 33.5 50.3#
75 820.1 29.3 43.9#



#87
n-Butylbenzene
Concen: 0.48 ug
RT: 12.398 min Scan# 2057
Delta R.T. 0.005 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

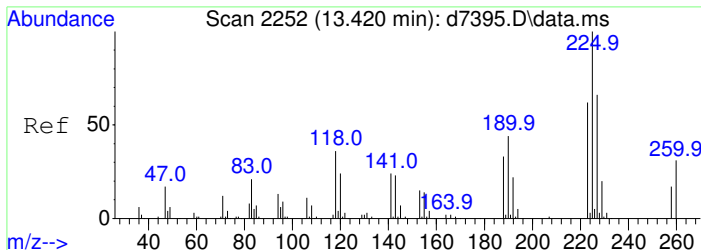
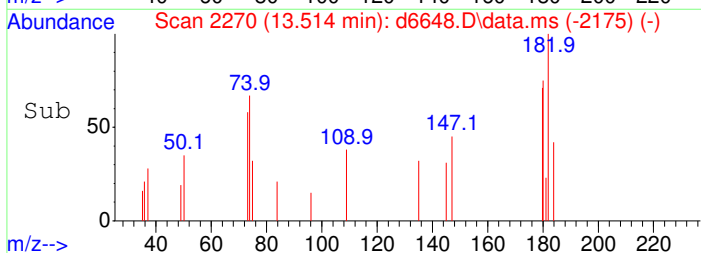
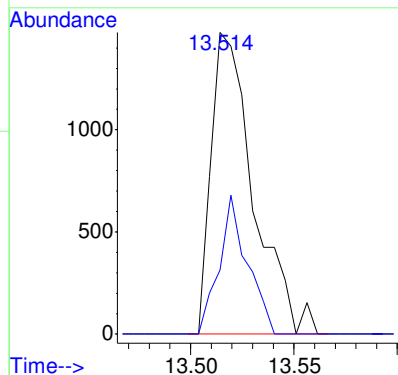
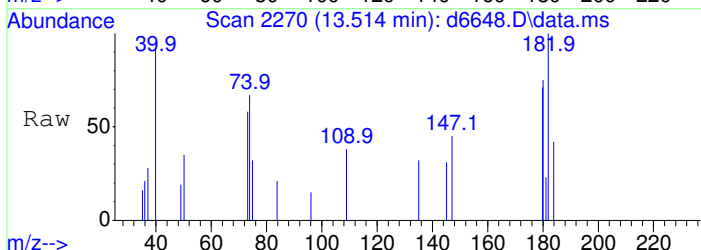
Tgt Ion: 91 Resp: 2234
Ion Ratio Lower Upper
91 100
134 23.8 25.4 38.0#





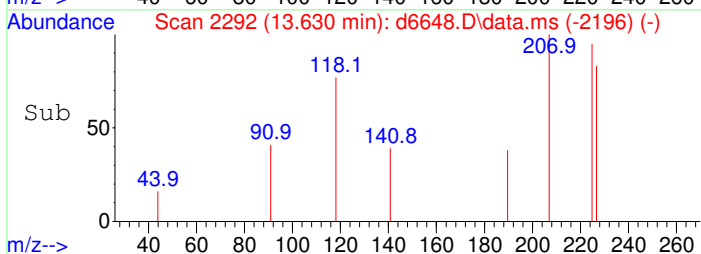
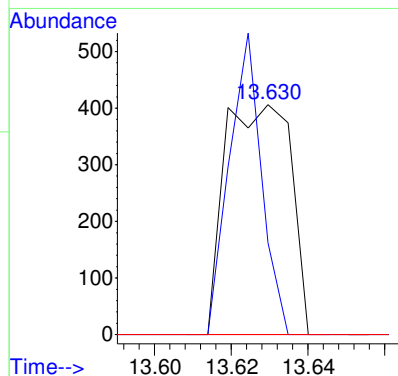
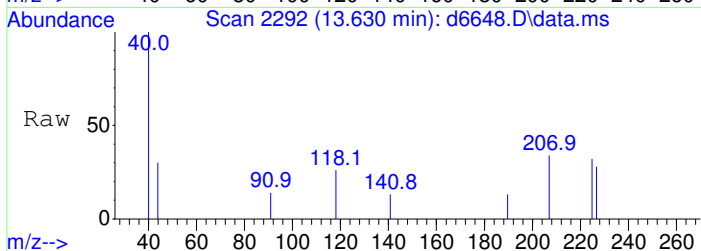
#89
1,2,4-Trichlorobenzene
Concen: 2.59 ug
RT: 13.514 min Scan# 2270
Delta R.T. -0.000 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

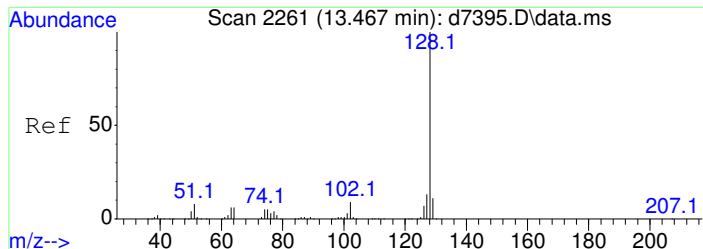
Tgt Ion:180 Resp: 2106
Ion Ratio Lower Upper
180 100
145 30.5 23.0 34.6



#90
Hexachlorobutadiene
Concen: 0.78 ug
RT: 13.630 min Scan# 2292
Delta R.T. 0.005 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

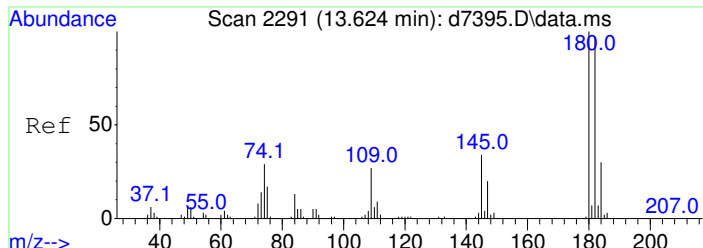
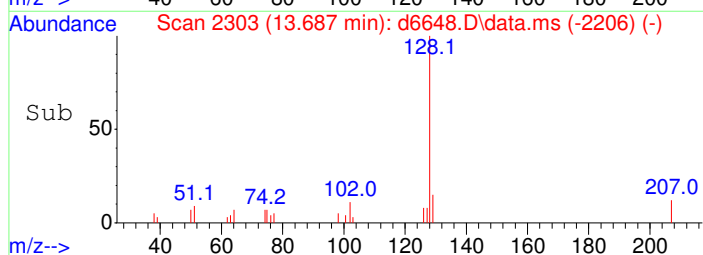
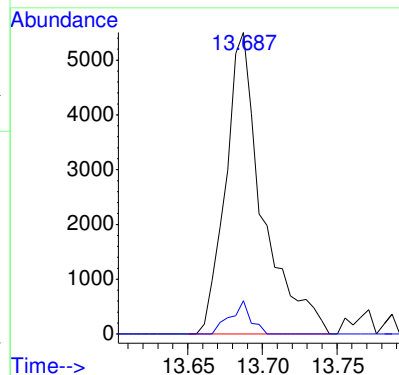
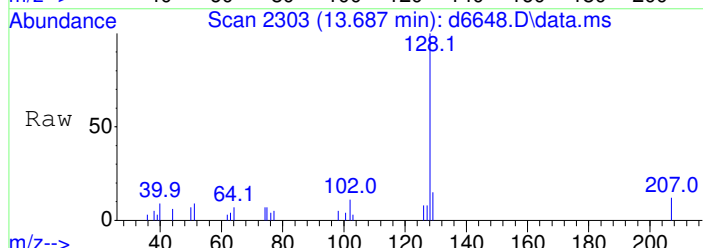
Tgt Ion:225 Resp: 486
Ion Ratio Lower Upper
225 100
190 64.2 38.0 57.0#
258 0.0 17.8 26.6#





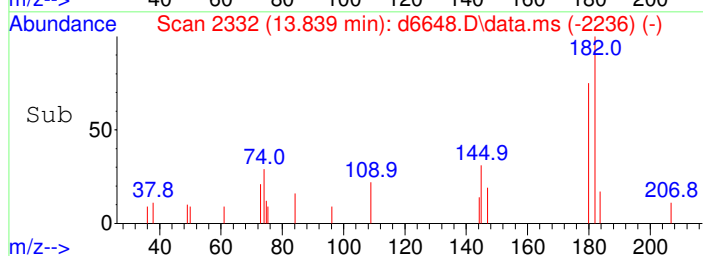
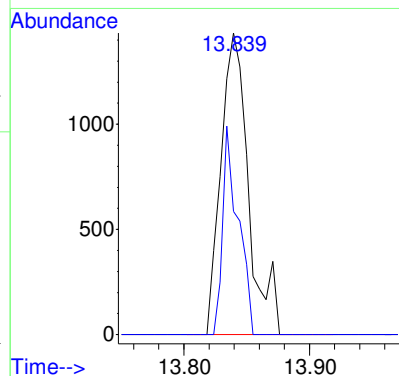
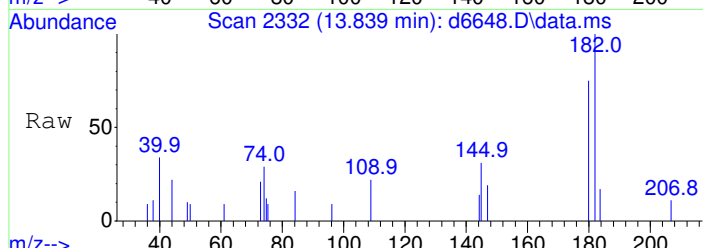
#91
Naphthalene
Concen: 7.70 ug
RT: 13.687 min Scan# 2303
Delta R.T. 0.010 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

Tgt Ion	Ratio	Lower	Upper
128	100		
102	6.1	6.6	9.8#



#92
1,2,3-Trichlorobenzene
Concen: 4.14 ug m
RT: 13.839 min Scan# 2332
Delta R.T. 0.005 min
Lab File: d6648.D
Acq: 10 Aug 2017 15:49

Tgt Ion	Ratio	Lower	Upper
180	100		
145	29.4	24.6	36.8



Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6649.D
 Acq On : 10 Aug 2017 16:10
 Operator :
 Sample : 170801036-002a
 Misc : samp e8260w
 ALS Vial : 10 Sample Multiplier: 1

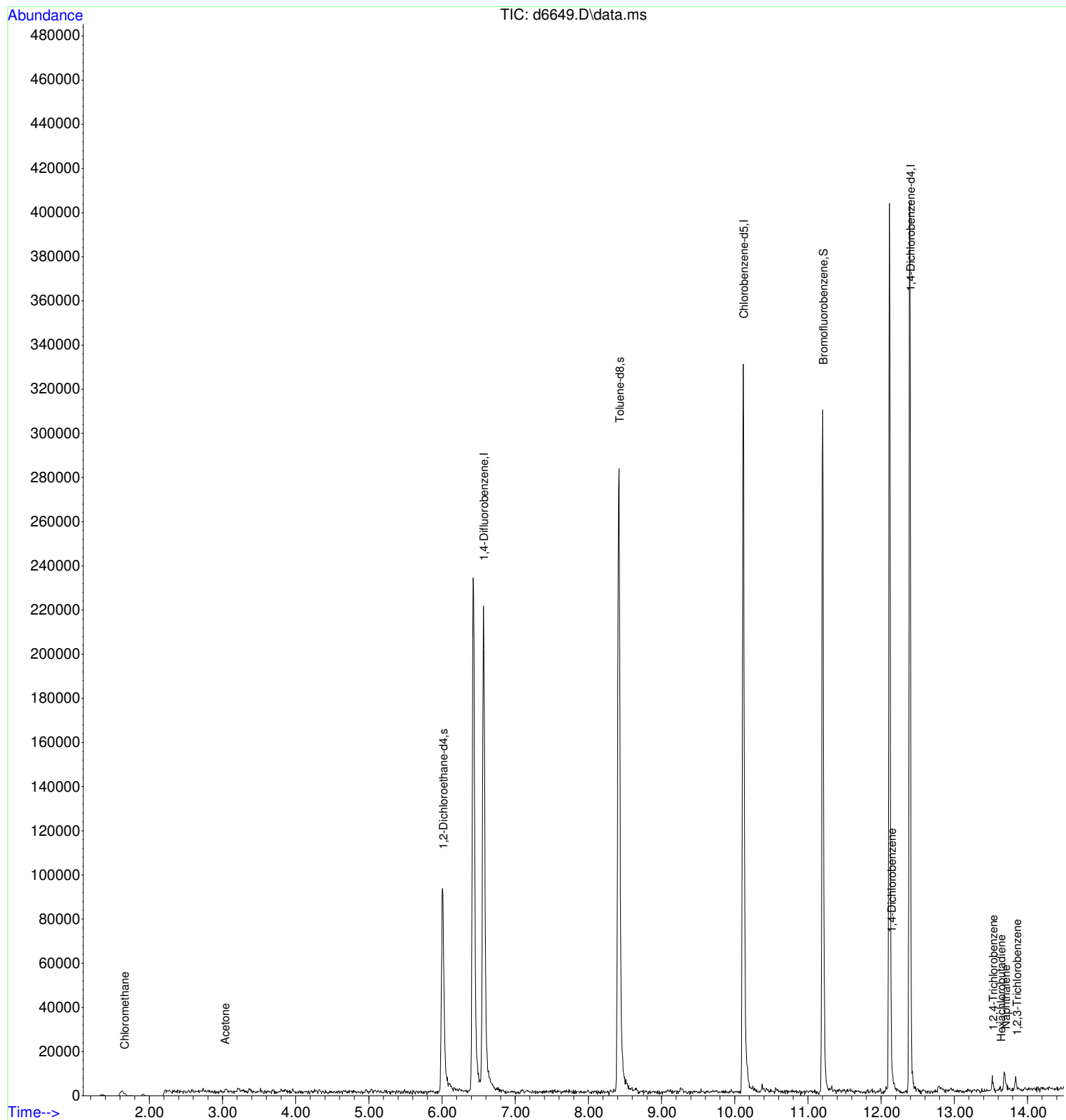
Quant Time: Aug 11 09:01:07 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

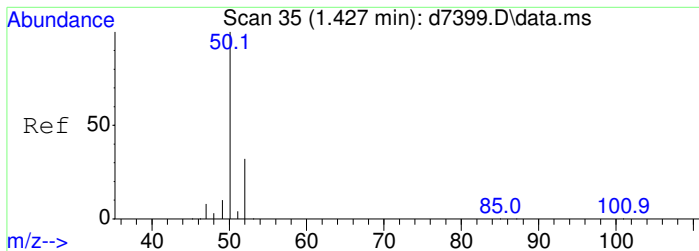
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	188012	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	163869	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	77788	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.012	65	80272	45.54	ug	0.01
57) Toluene-d8	8.418	98	220157	50.12	ug	0.01
79) Bromofluorobenzene	11.202	95	87029	47.96	ug	0.00
Target Compounds						Qvalue
3) Chloromethane	1.661	50	904	0.59	ug	# 60
13) Acetone	3.034	43	1865	1.80	ug	# 89
85) 1,4-Dichlorobenzene	12.135	146	1346	0.54	ug	# 1
89) 1,2,4-Trichlorobenzene	13.520	180	1291	1.62	ug	# 81
90) Hexachlorobutadiene	13.630	225	497	0.81	ug	# 72
91) Naphthalene	13.693	128	5412	4.51	ug	# 88
92) 1,2,3-Trichlorobenzene	13.845	180	1784	3.46	ug	# 78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6649.D
Acq On : 10 Aug 2017 16:10
Operator :
Sample : 170801036-002a
Misc : samp e8260w
ALS Vial : 10 Sample Multiplier: 1

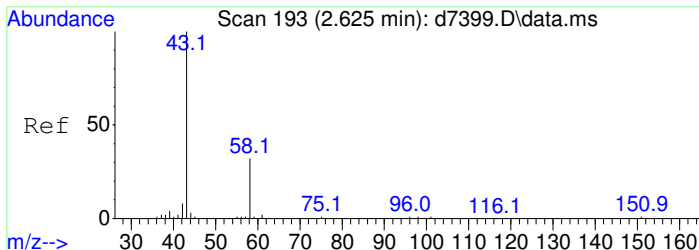
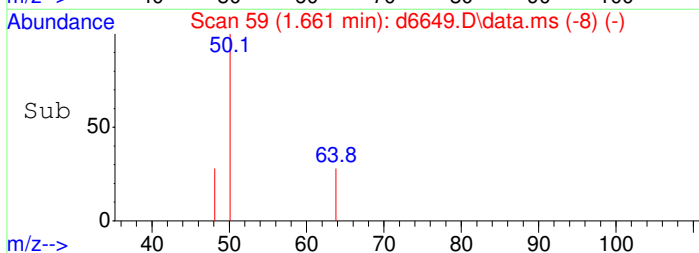
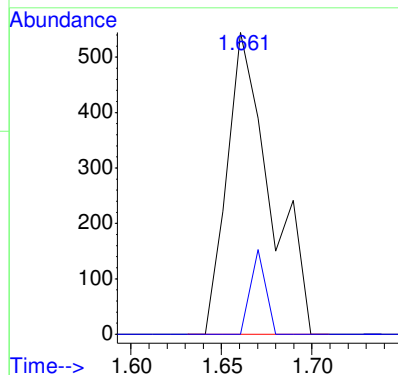
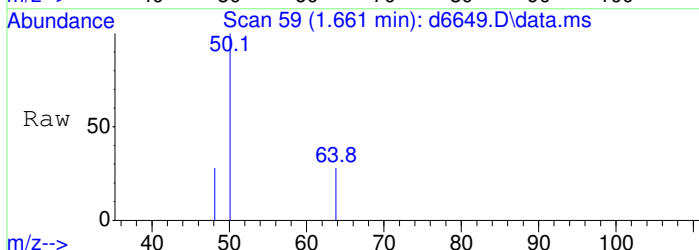
Quant Time: Aug 11 09:01:07 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration





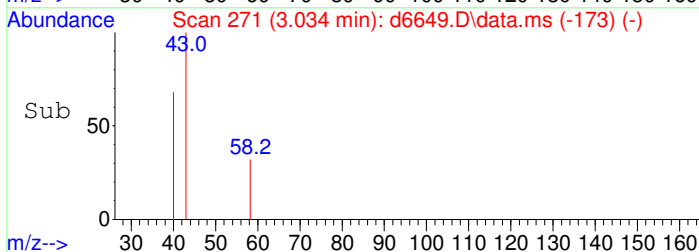
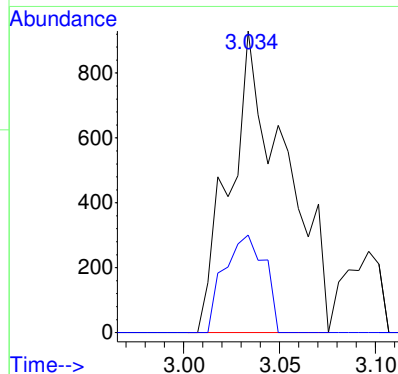
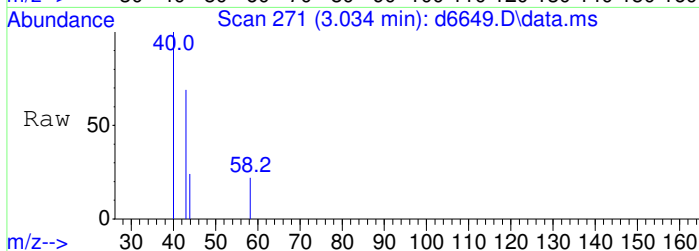
#3
Chloromethane
Concen: 0.59 ug
RT: 1.661 min Scan# 59
Delta R.T. -0.000 min
Lab File: d6649.D
Acq: 10 Aug 2017 16:10

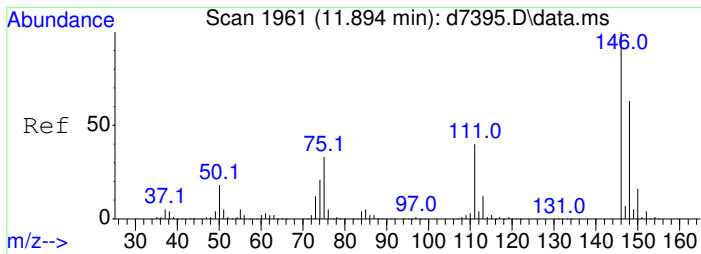
Tgt Ion: 50 Resp: 904
Ion Ratio Lower Upper
50 100
52 9.8 25.8 38.6#



#13
Acetone
Concen: 1.80 ug
RT: 3.034 min Scan# 271
Delta R.T. 0.016 min
Lab File: d6649.D
Acq: 10 Aug 2017 16:10

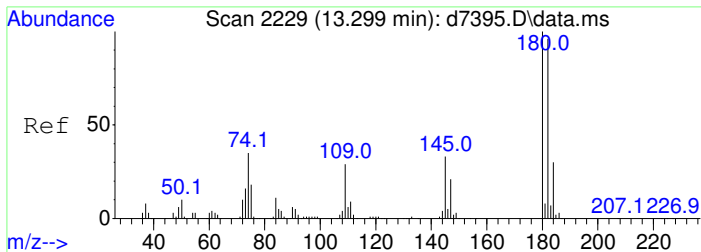
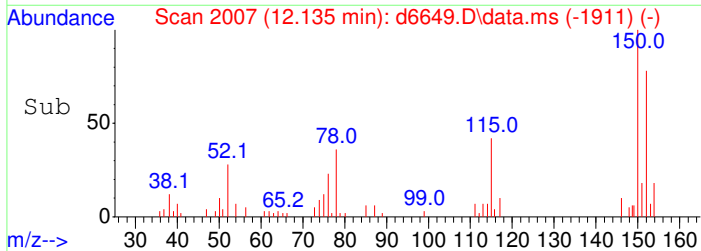
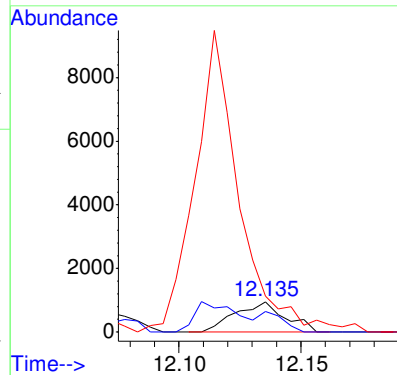
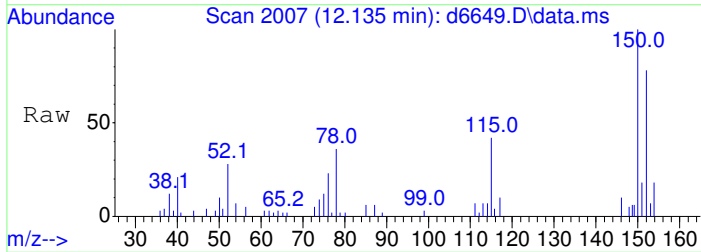
Tgt Ion: 43 Resp: 1865
Ion Ratio Lower Upper
43 100
58 23.7 9.5 49.5





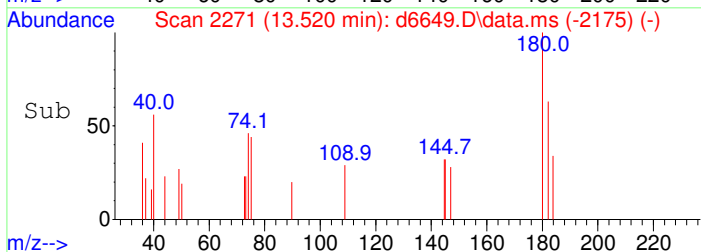
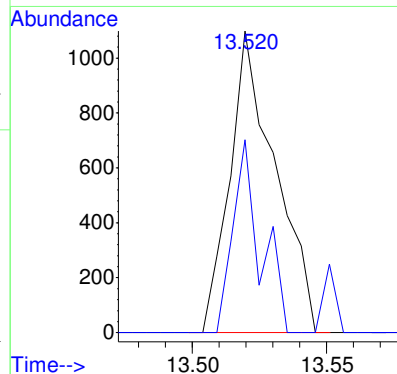
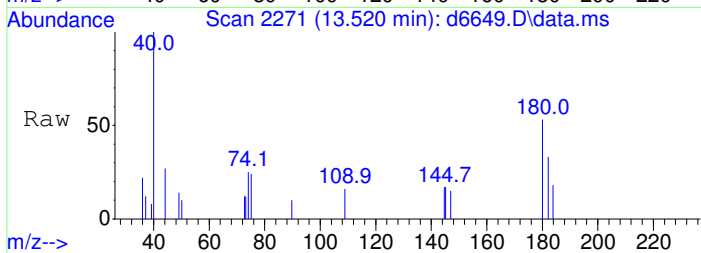
#85
 1,4-Dichlorobenzene
 Concen: 0.54 ug
 RT: 12.135 min Scan# 2007
 Delta R.T. 0.005 min
 Lab File: d6649.D
 Acq: 10 Aug 2017 16:10

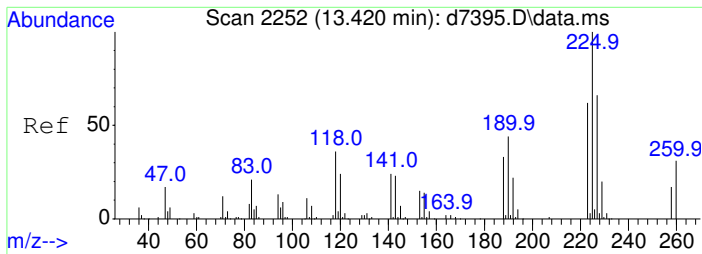
Tgt Ion	Ratio	Lower	Upper
146	100		
111	84.8	29.0	43.6#
75	892.6	21.4	32.2#



#89
 1,2,4-Trichlorobenzene
 Concen: 1.62 ug
 RT: 13.520 min Scan# 2271
 Delta R.T. 0.005 min
 Lab File: d6649.D
 Acq: 10 Aug 2017 16:10

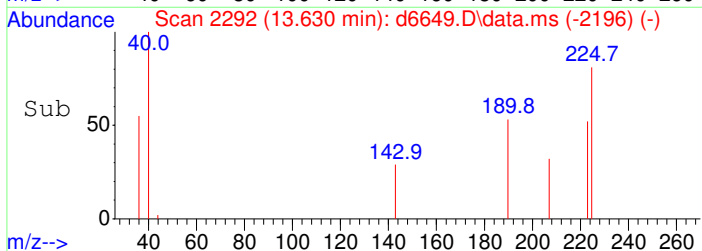
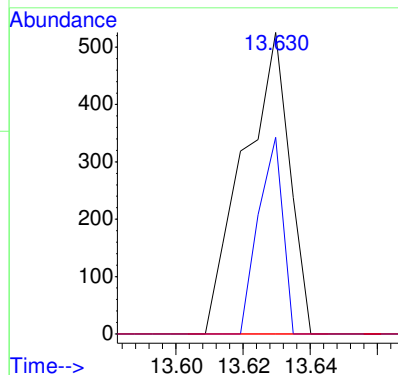
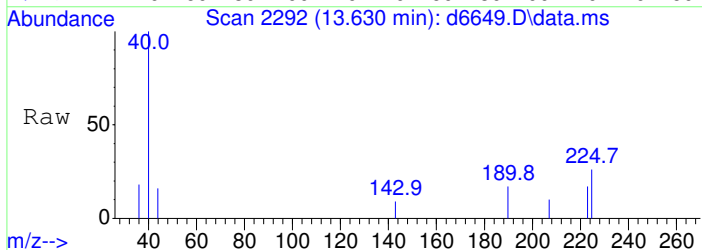
Tgt Ion	Ratio	Lower	Upper
180	100		
145	38.9	23.0	34.6#





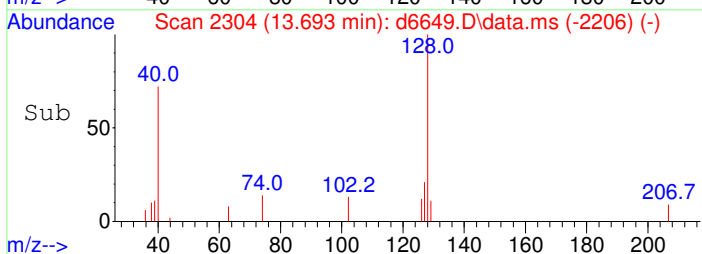
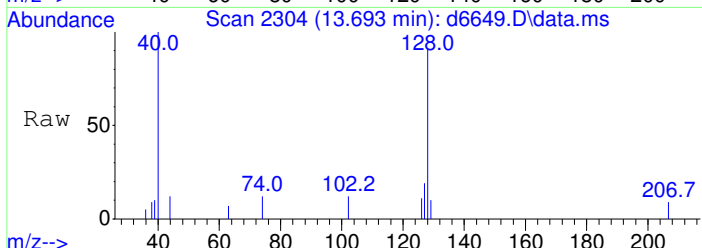
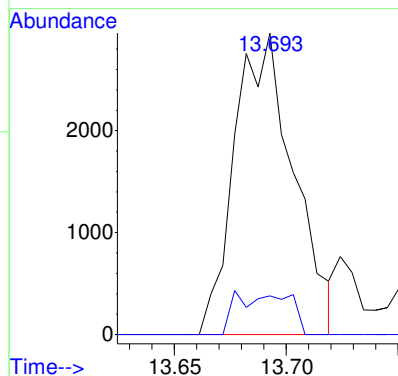
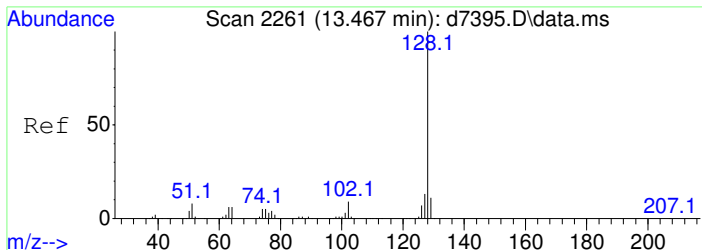
#90
Hexachlorobutadiene
Concen: 0.81 ug
RT: 13.630 min Scan# 2292
Delta R.T. 0.005 min
Lab File: d6649.D
Acq: 10 Aug 2017 16:10

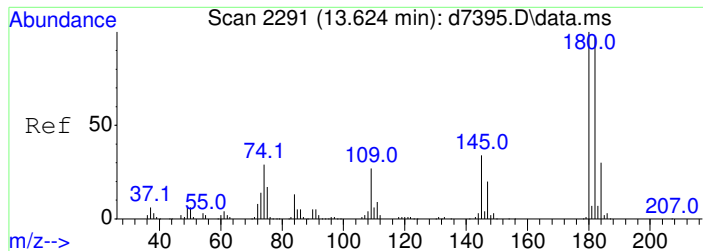
Tgt Ion:225	Resp:	497
Ion Ratio	Lower	Upper
225	100	
190	34.8	38.0 57.0#
258	0.0	17.8 26.6#



#91
Naphthalene
Concen: 4.51 ug
RT: 13.693 min Scan# 2304
Delta R.T. 0.016 min
Lab File: d6649.D
Acq: 10 Aug 2017 16:10

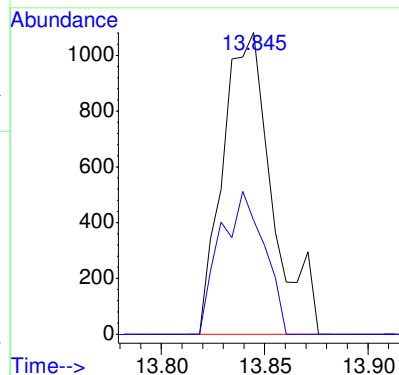
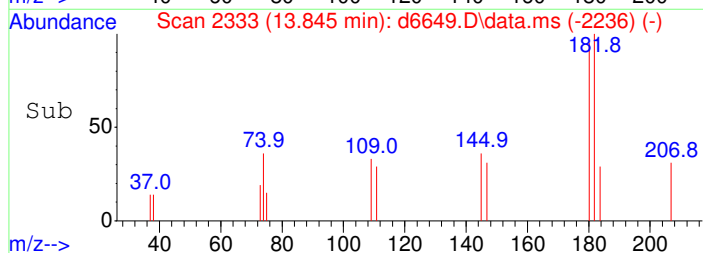
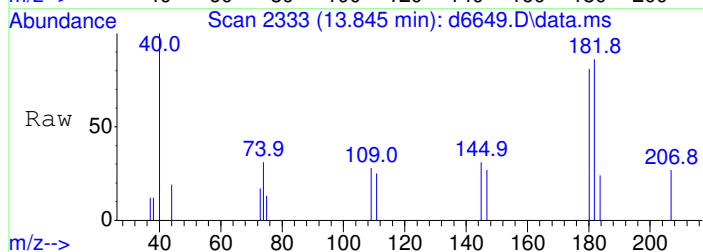
Tgt Ion:128	Resp:	5412
Ion Ratio	Lower	Upper
128	100	
102	12.6	6.6 9.8#





#92
 1,2,3-Trichlorobenzene
 Concen: 3.46 ug
 RT: 13.845 min Scan# 2333
 Delta R.T. 0.010 min
 Lab File: d6649.D
 Acq: 10 Aug 2017 16:10

Tgt Ion:180 Resp: 1784
 Ion Ratio Lower Upper
 180 100
 145 42.6 24.6 36.8#



Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6650.D
 Acq On : 10 Aug 2017 16:32
 Operator :
 Sample : 170801036-003a
 Misc : samp e8260w
 ALS Vial : 11 Sample Multiplier: 1

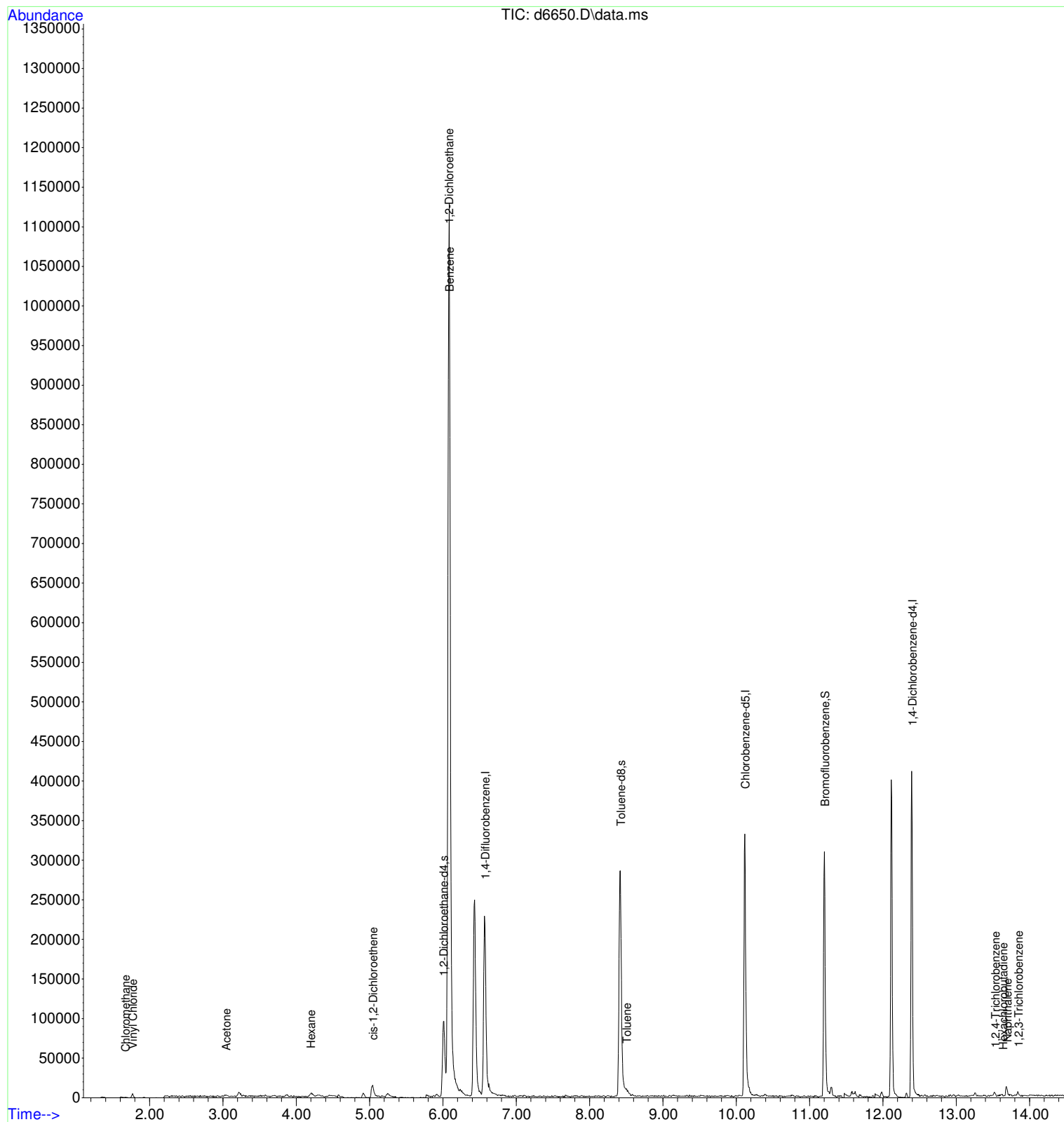
Quant Time: Aug 11 09:02:20 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

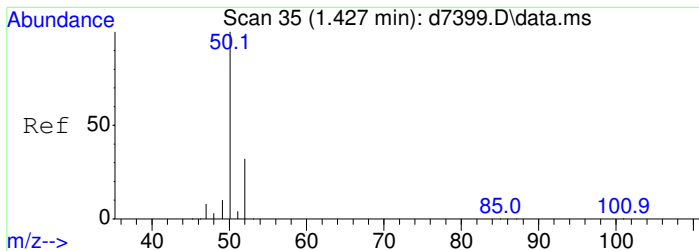
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	196957	50.00	ug	0.01
34) Chlorobenzene-d5	10.117	117	168053	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	79311	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.006	65	85813	46.47	ug	0.00
57) Toluene-d8	8.418	98	223119	49.53	ug	0.01
79) Bromofluorobenzene	11.202	95	87418	47.25	ug	0.00
Target Compounds						Qvalue
3) Chloromethane	1.670	50	917	0.57	ug	# 71
4) Vinyl Chloride	1.768	62	4908	3.27	ug	86
13) Acetone	3.044	43	3481m	3.21	ug	
22) Hexane	4.198	43	958	0.83	ug	# 84
23) cis-1,2-Dichloroethene	5.042	61	9760m	3.53	ug	
31) 1,2-Dichloroethane	6.080	62	13053	4.57	ug	89
37) Benzene	6.085	78	1044034	179.77	ug	100
58) Toluene	8.502	92	2495	0.70	ug	89
89) 1,2,4-Trichlorobenzene	13.525	180	1312m	1.61	ug	
90) Hexachlorobutadiene	13.630	225	534	0.86	ug	# 74
91) Naphthalene	13.688	128	9840	8.04	ug	# 95
92) 1,2,3-Trichlorobenzene	13.840	180	1203	2.29	ug	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6650.D
Acq On : 10 Aug 2017 16:32
Operator :
Sample : 170801036-003a
Misc : samp e8260w
ALS Vial : 11 Sample Multiplier: 1

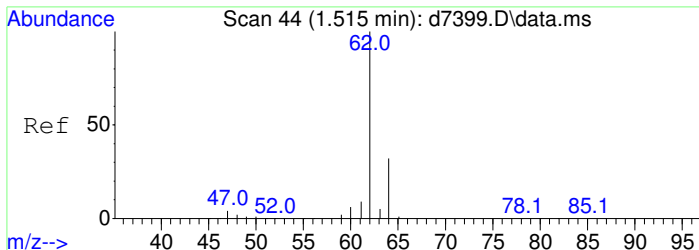
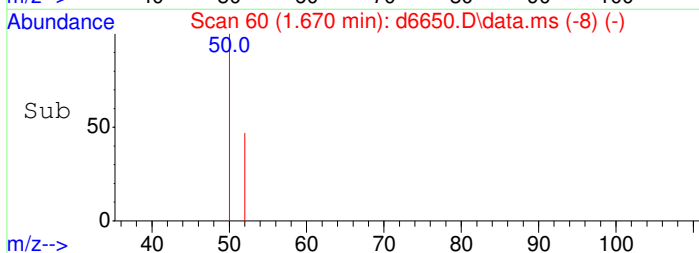
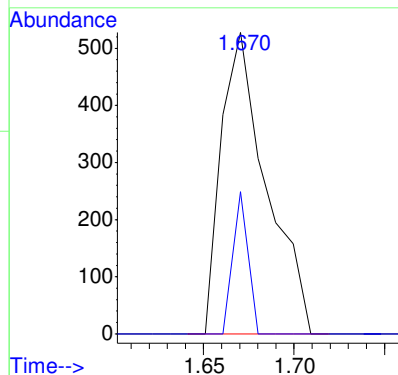
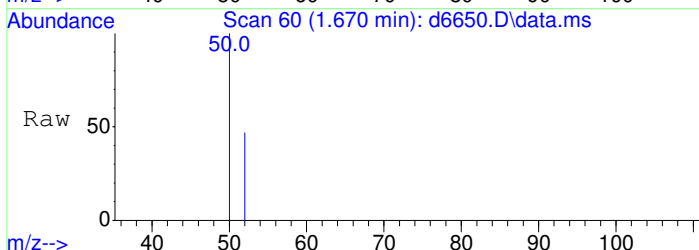
Quant Time: Aug 11 09:02:20 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration





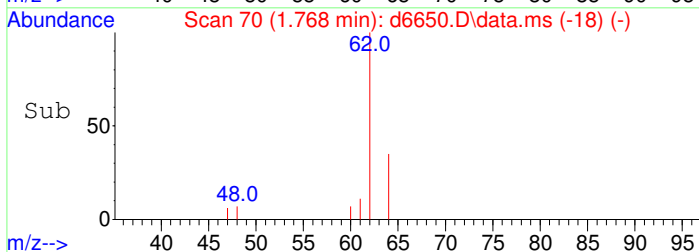
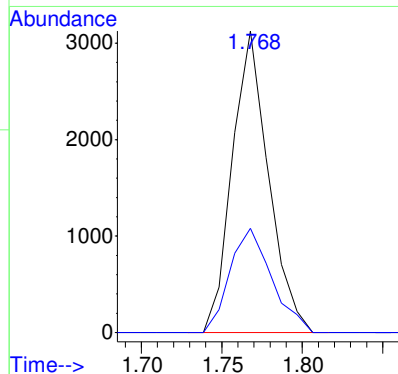
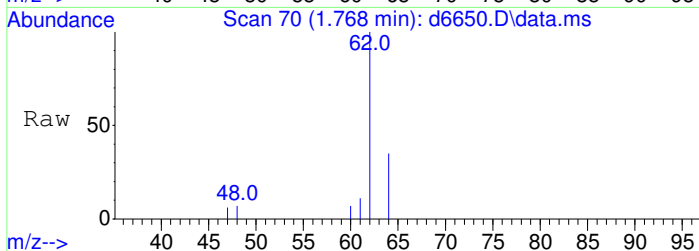
#3
Chloromethane
Concen: 0.57 ug
RT: 1.670 min Scan# 60
Delta R.T. 0.010 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

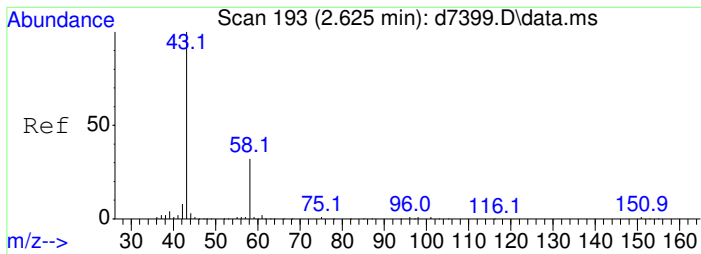
Tgt Ion: 50 Resp: 917
Ion Ratio Lower Upper
50 100
52 15.8 25.8 38.6#



#4
Vinyl Chloride
Concen: 3.27 ug
RT: 1.768 min Scan# 70
Delta R.T. 0.010 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

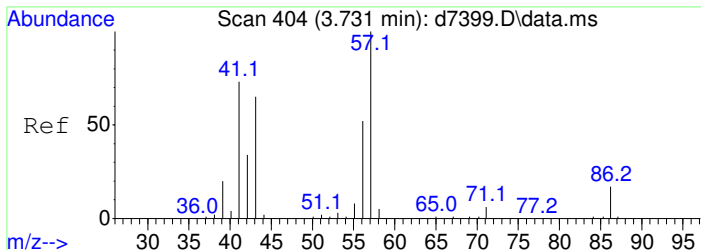
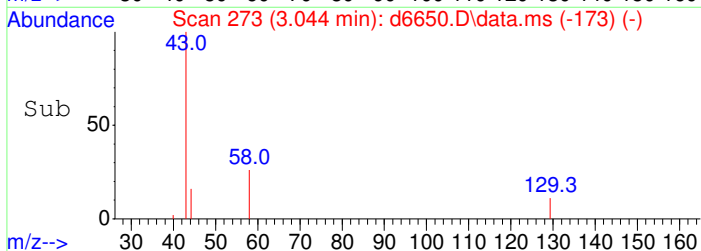
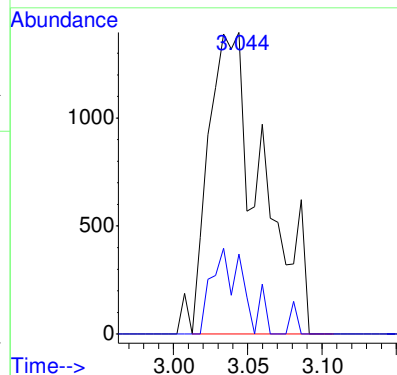
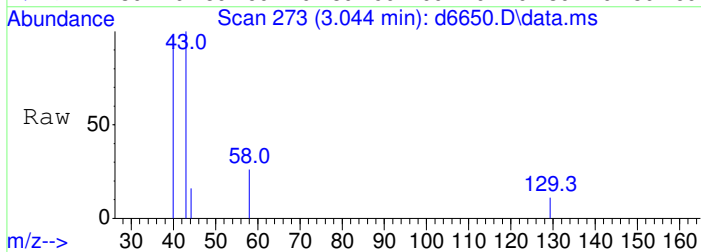
Tgt Ion: 62 Resp: 4908
Ion Ratio Lower Upper
62 100
64 39.9 12.2 52.2





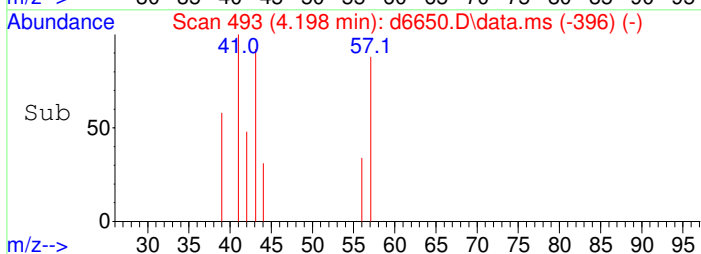
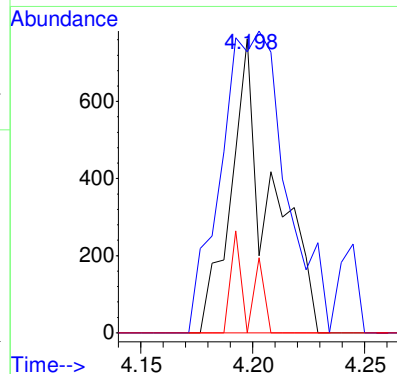
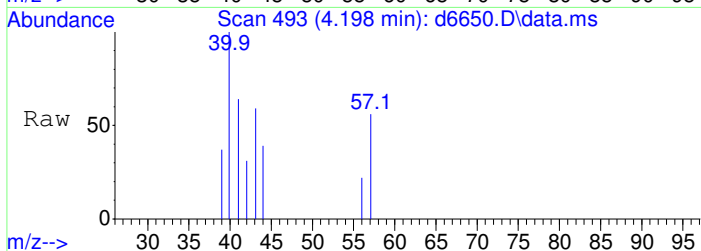
#13
 Acetone
 Concen: 3.21 ug m
 RT: 3.044 min Scan# 273
 Delta R.T. 0.026 min
 Lab File: d6650.D
 Acq: 10 Aug 2017 16:32

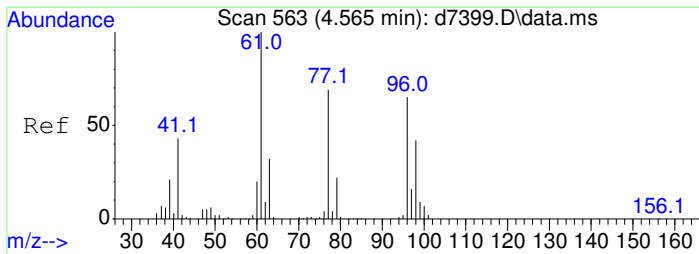
Tgt Ion: 43 Resp: 3481
 Ion Ratio Lower Upper
 43 100
 58 14.8 9.5 49.5



#22
 Hexane
 Concen: 0.83 ug
 RT: 4.198 min Scan# 493
 Delta R.T. 0.011 min
 Lab File: d6650.D
 Acq: 10 Aug 2017 16:32

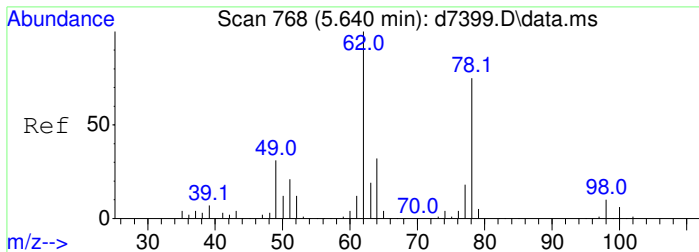
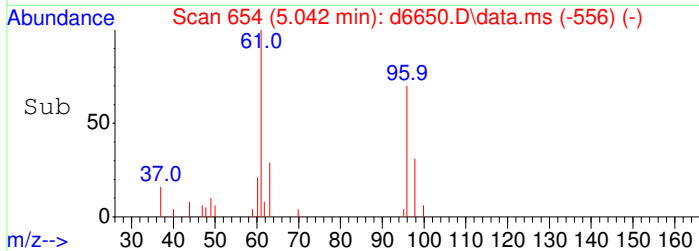
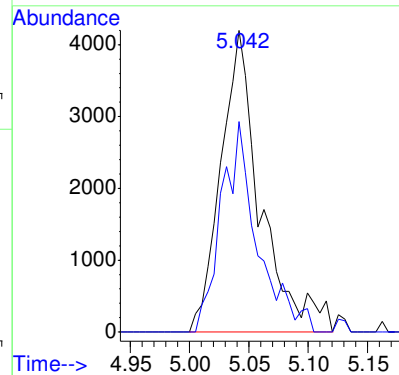
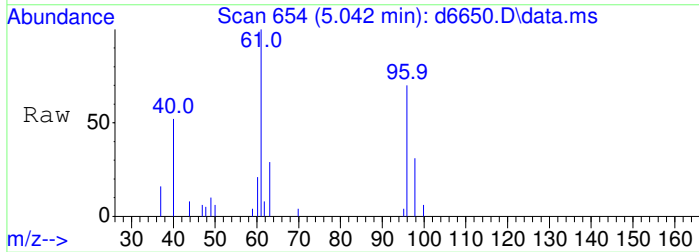
Tgt Ion: 43 Resp: 958
 Ion Ratio Lower Upper
 43 100
 57 164.7 119.8 179.6
 86 15.0 28.3 42.5#





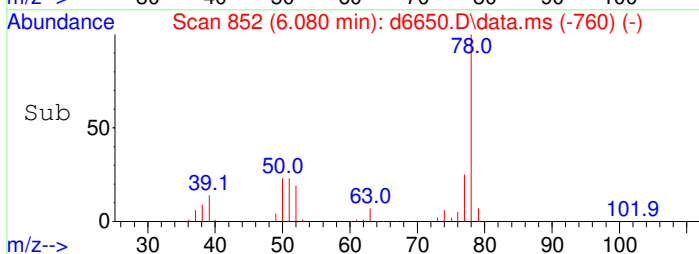
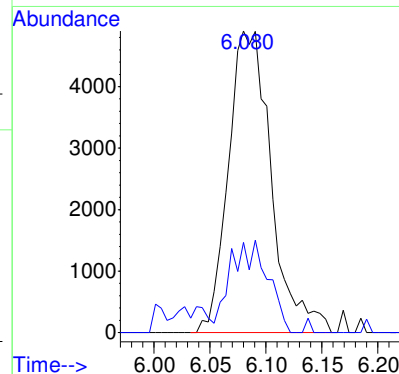
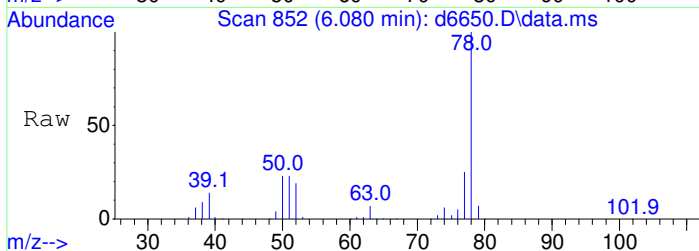
#23
 cis-1,2-Dichloroethene
 Concen: 3.53 ug m
 RT: 5.042 min Scan# 654
 Delta R.T. 0.016 min
 Lab File: d6650.D
 Acq: 10 Aug 2017 16:32

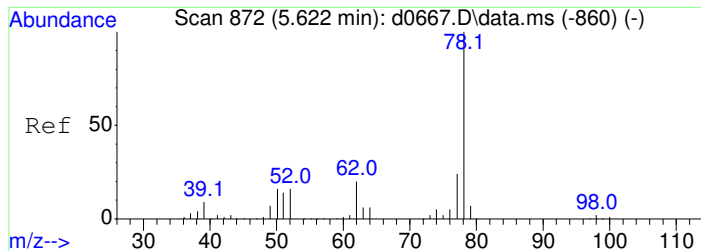
Tgt Ion: 61 Resp: 9760
 Ion Ratio Lower Upper
 61 100
 96 63.4 59.7 89.5



#31
 1,2-Dichloroethane
 Concen: 4.57 ug
 RT: 6.080 min Scan# 852
 Delta R.T. -0.016 min
 Lab File: d6650.D
 Acq: 10 Aug 2017 16:32

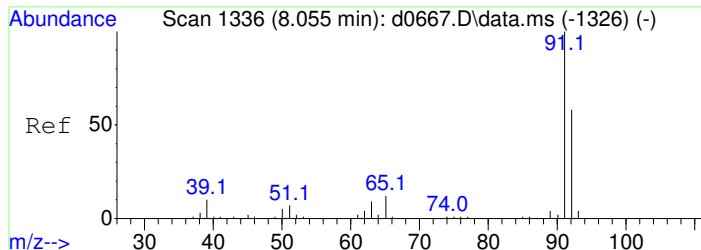
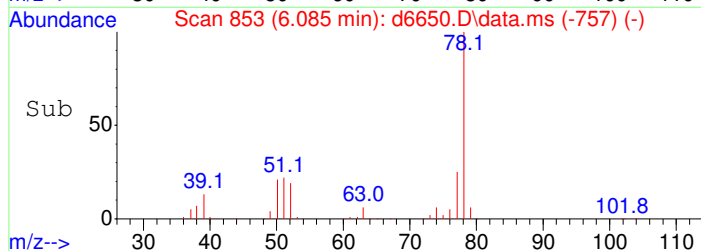
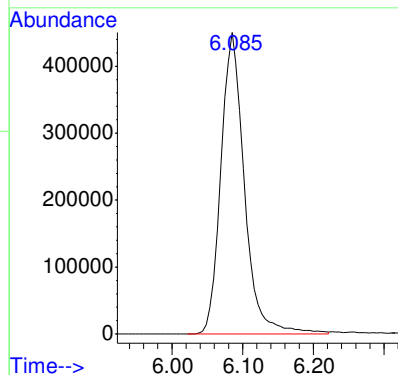
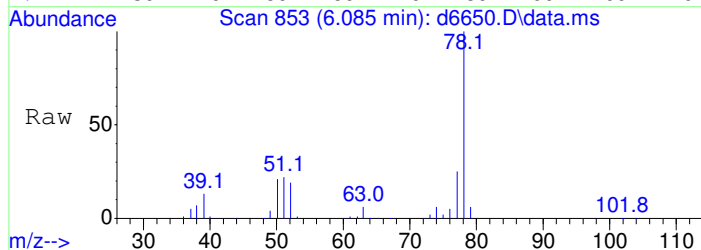
Tgt Ion: 62 Resp: 13053
 Ion Ratio Lower Upper
 62 100
 64 26.4 12.7 52.7





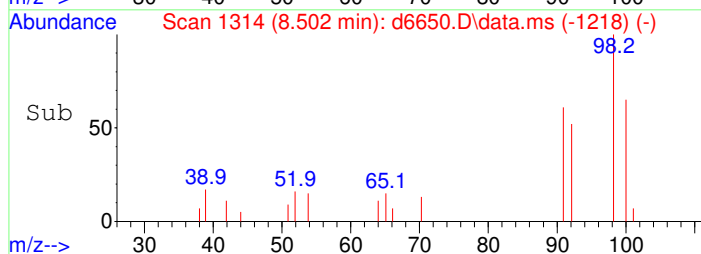
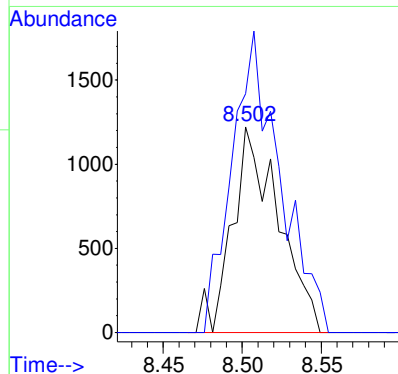
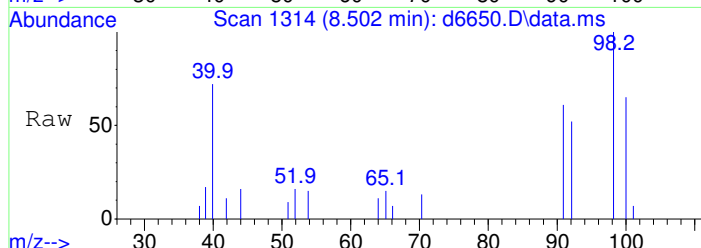
#37
Benzene
Concen: 179.77 ug
RT: 6.085 min Scan# 853
Delta R.T. 0.005 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

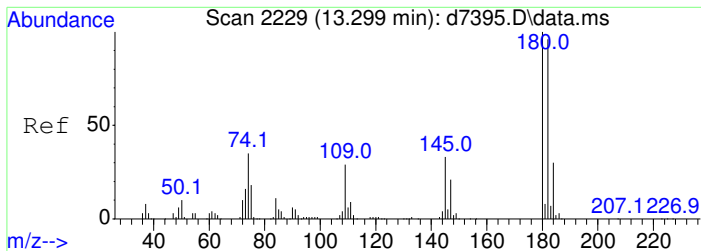
Tgt Ion: 78 Resp: 1044034



#58
Toluene
Concen: 0.70 ug
RT: 8.502 min Scan# 1314
Delta R.T. 0.005 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

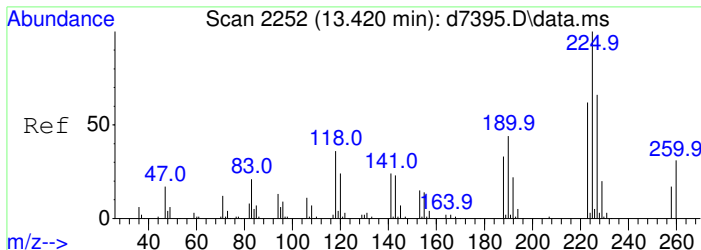
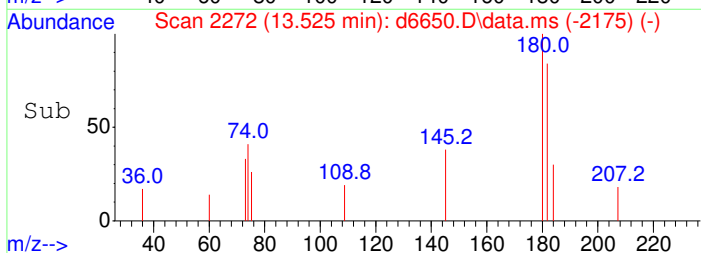
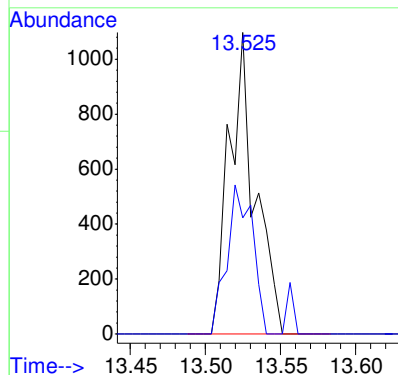
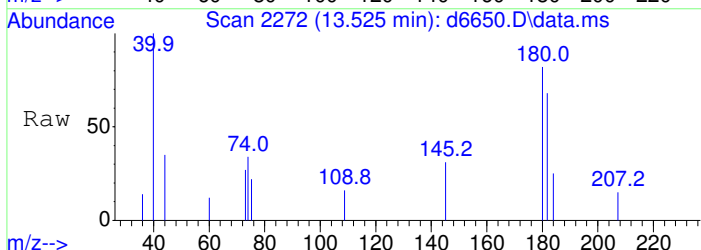
Tgt Ion: 92 Resp: 2495
Ion Ratio Lower Upper
92 100
91 152.4 148.0 188.0





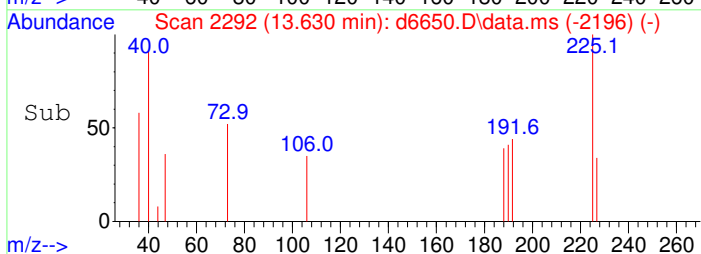
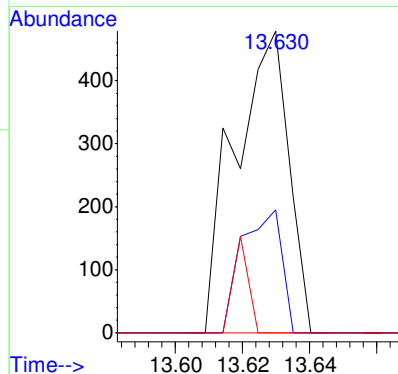
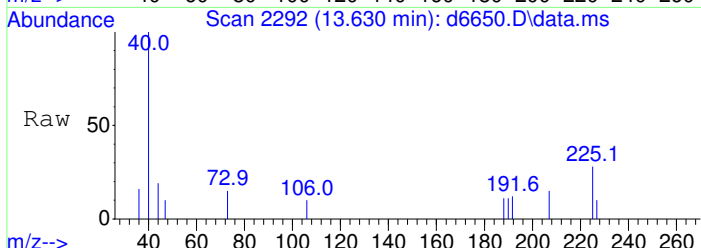
#89
1,2,4-Trichlorobenzene
Concen: 1.61 ug m
RT: 13.525 min Scan# 2272
Delta R.T. 0.011 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

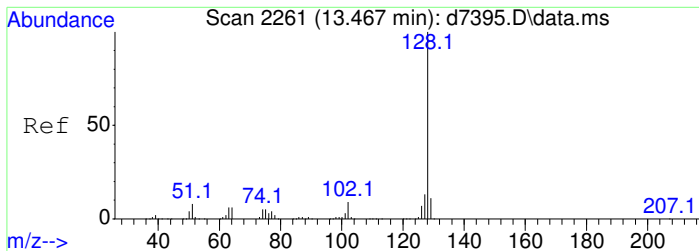
Tgt Ion	Ratio	Lower	Upper
180	100		
145	28.5	23.0	34.6



#90
Hexachlorobutadiene
Concen: 0.86 ug
RT: 13.630 min Scan# 2292
Delta R.T. 0.005 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

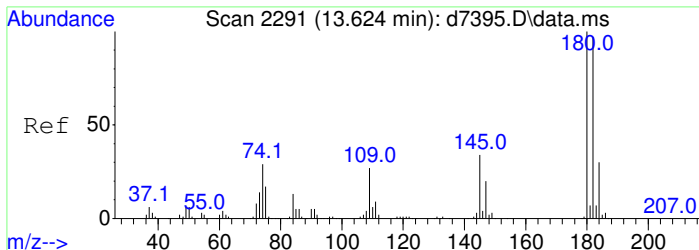
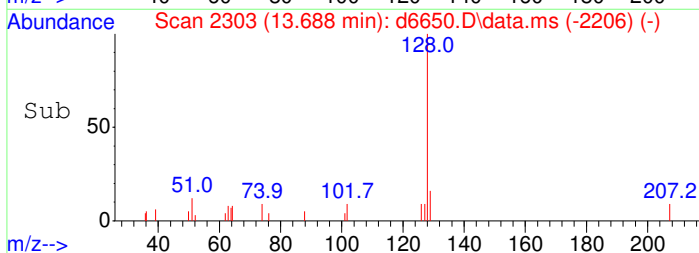
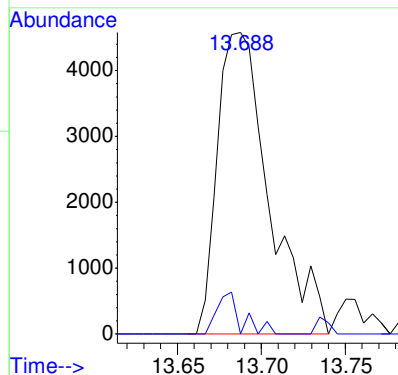
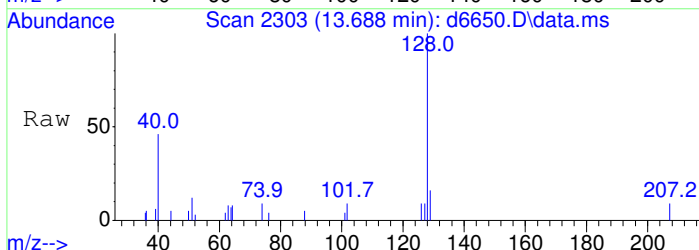
Tgt Ion	Ratio	Lower	Upper
225	100		
190	30.1	38.0	57.0#
258	9.0	17.8	26.6#





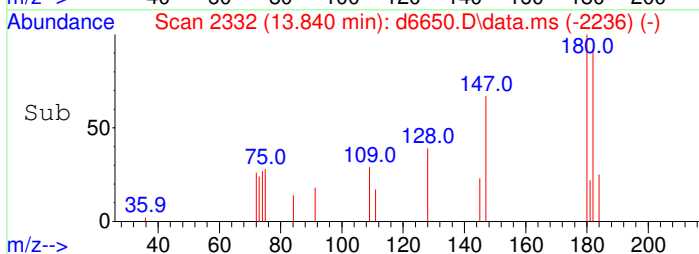
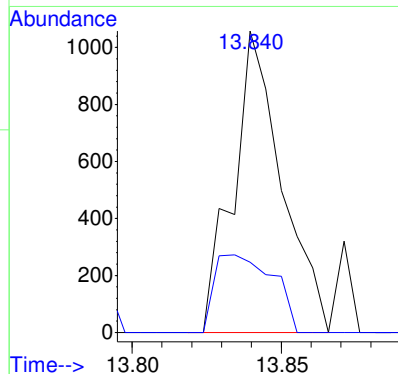
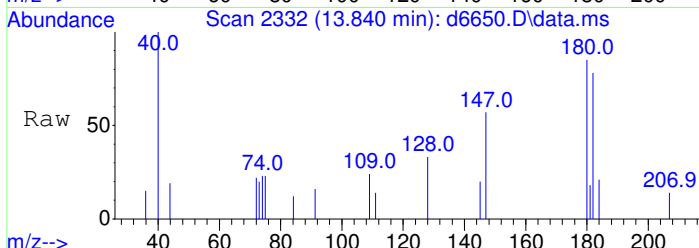
#91
Naphthalene
Concen: 8.04 ug
RT: 13.688 min Scan# 2303
Delta R.T. 0.011 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

Tgt Ion	Ratio	Lower	Upper
128	100		
102	6.4	6.6	9.8#



#92
1,2,3-Trichlorobenzene
Concen: 2.29 ug
RT: 13.840 min Scan# 2332
Delta R.T. 0.005 min
Lab File: d6650.D
Acq: 10 Aug 2017 16:32

Tgt Ion	Ratio	Lower	Upper
180	100		
145	31.1	24.6	36.8



Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6651.D
 Acq On : 10 Aug 2017 16:53
 Operator :
 Sample : 170801036-005a
 Misc : samp e8260w
 ALS Vial : 12 Sample Multiplier: 1

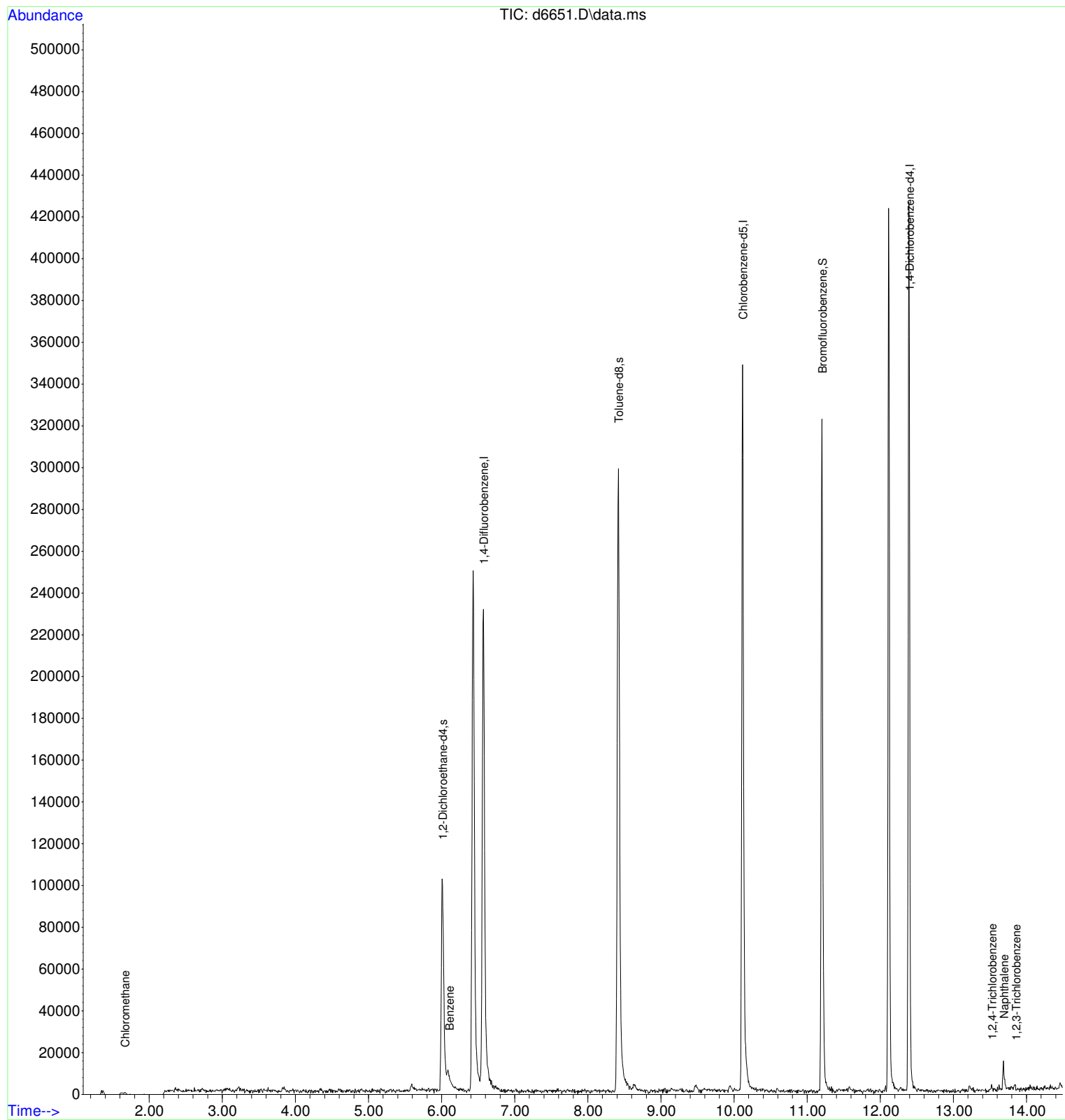
Quant Time: Aug 11 09:03:05 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

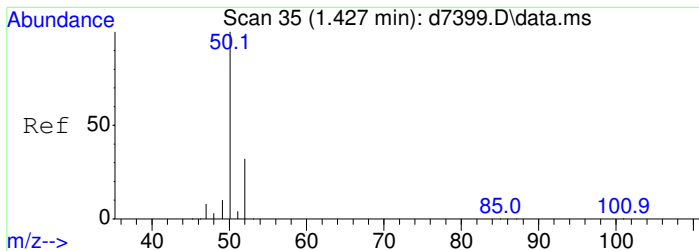
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.573	114	201051	50.00	ug	0.01
34) Chlorobenzene-d5	10.117	117	176162	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	81306	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.012	65	90934	48.25	ug	0.01
57) Toluene-d8	8.418	98	235235	49.82	ug	0.01
79) Bromofluorobenzene	11.202	95	90654	47.80	ug	0.00
Target Compounds						Qvalue
3) Chloromethane	1.670	50	951	0.58	ug	# 64
37) Benzene	6.106	78	5511	0.91	ug	100
89) 1,2,4-Trichlorobenzene	13.520	180	1038m	1.25	ug	
91) Naphthalene	13.682	128	10093	8.04	ug	# 91
92) 1,2,3-Trichlorobenzene	13.850	180	884	1.64	ug	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6651.D
Acq On : 10 Aug 2017 16:53
Operator :
Sample : 170801036-005a
Misc : samp e8260w
ALS Vial : 12 Sample Multiplier: 1

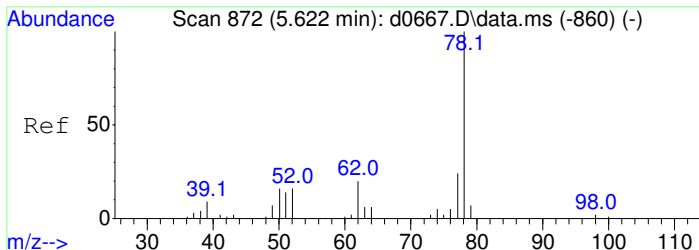
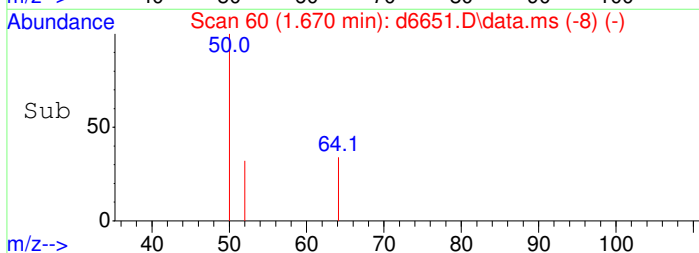
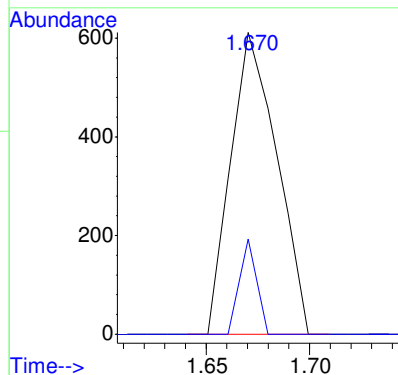
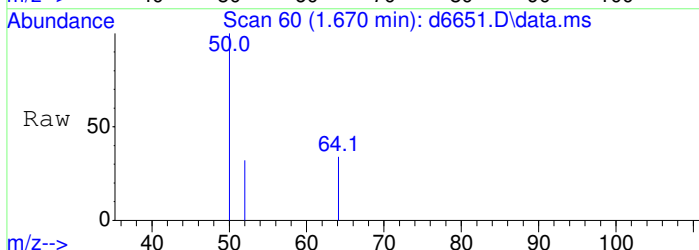
Quant Time: Aug 11 09:03:05 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration





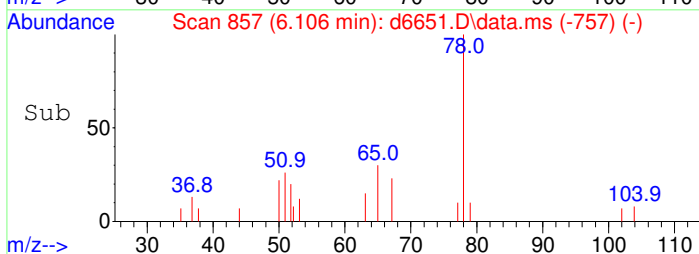
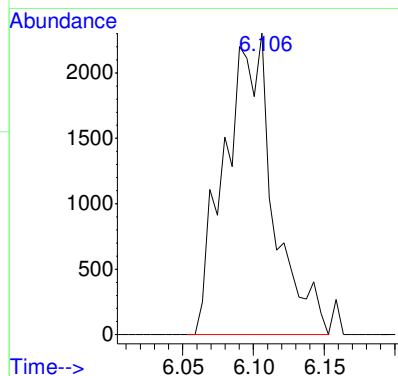
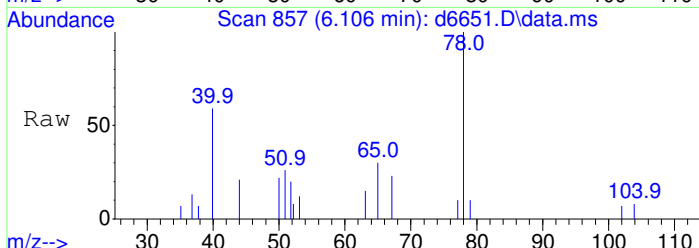
#3
Chloromethane
Concen: 0.58 ug
RT: 1.670 min Scan# 60
Delta R.T. 0.010 min
Lab File: d6651.D
Acq: 10 Aug 2017 16:53

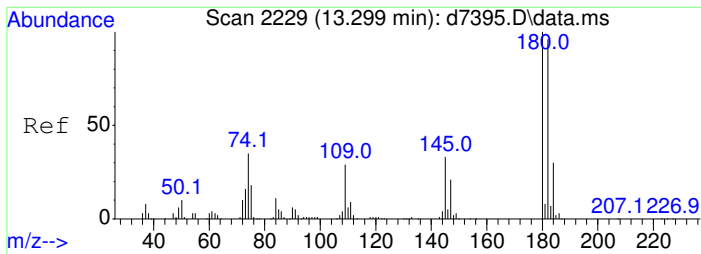
Tgt Ion: 50 Resp: 951
Ion Ratio Lower Upper
50 100
52 11.9 25.8 38.6#



#37
Benzene
Concen: 0.91 ug
RT: 6.106 min Scan# 857
Delta R.T. 0.026 min
Lab File: d6651.D
Acq: 10 Aug 2017 16:53

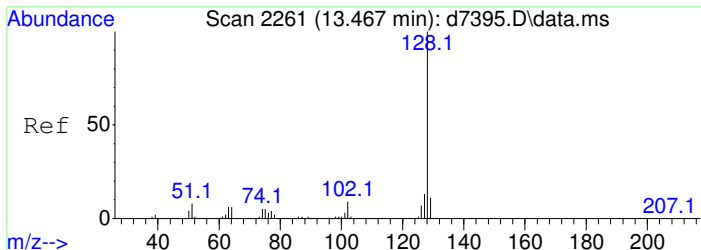
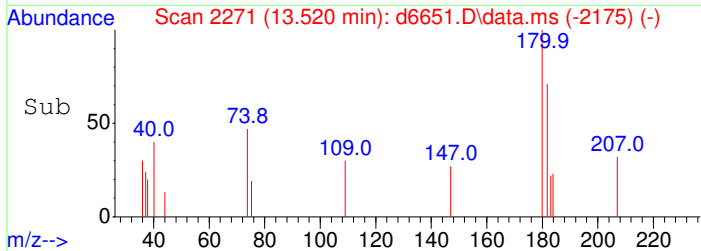
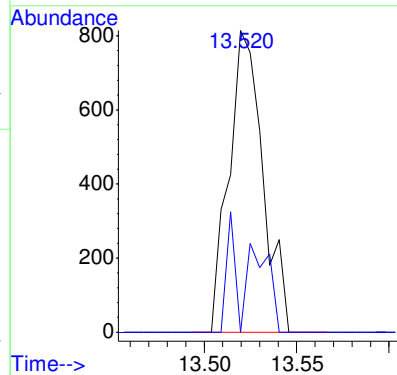
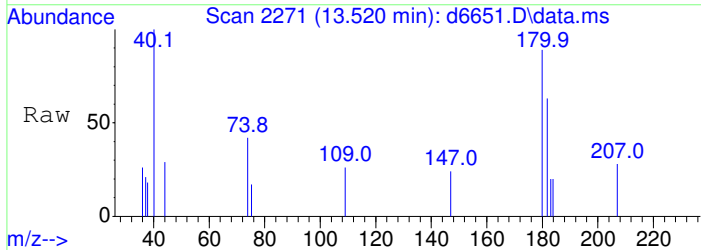
Tgt Ion: 78 Resp: 5511





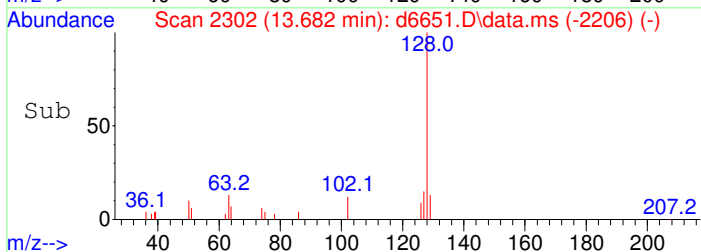
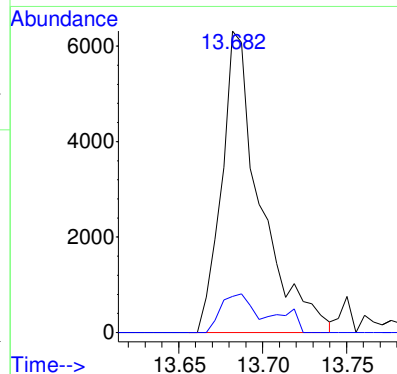
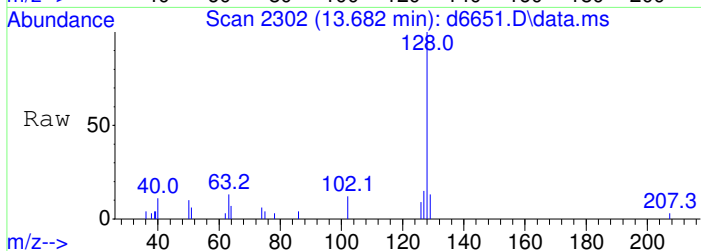
#89
1,2,4-Trichlorobenzene
Concen: 1.25 ug m
RT: 13.520 min Scan# 2271
Delta R.T. 0.005 min
Lab File: d6651.D
Acq: 10 Aug 2017 16:53

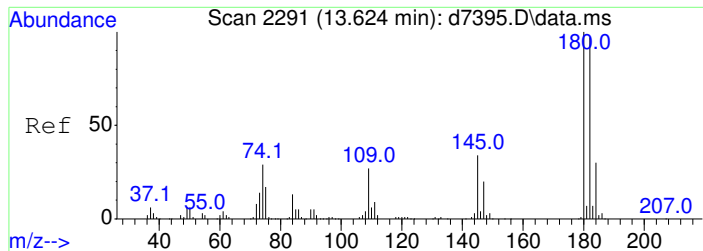
Tgt Ion:180 Resp: 1038
Ion Ratio Lower Upper
180 100
145 23.5 23.0 34.6



#91
Naphthalene
Concen: 8.04 ug
RT: 13.682 min Scan# 2302
Delta R.T. 0.005 min
Lab File: d6651.D
Acq: 10 Aug 2017 16:53

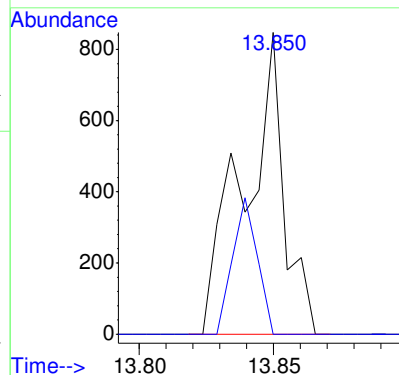
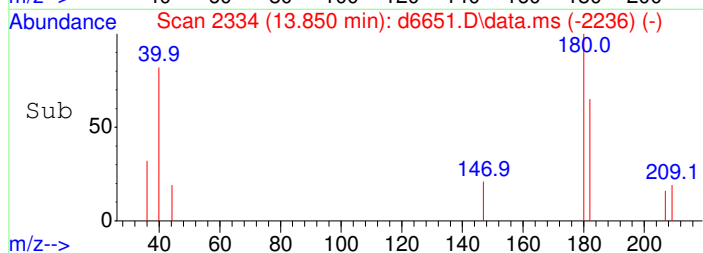
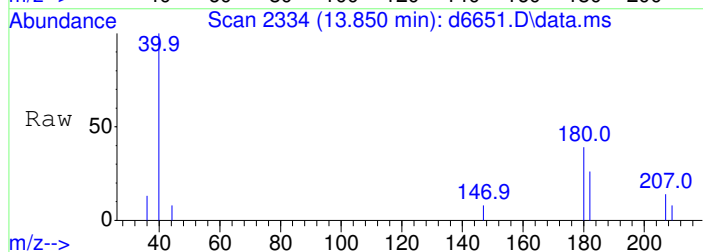
Tgt Ion:128 Resp: 10093
Ion Ratio Lower Upper
128 100
102 11.5 6.6 9.8#





#92
 1,2,3-Trichlorobenzene
 Concen: 1.64 ug
 RT: 13.850 min Scan# 2334
 Delta R.T. 0.016 min
 Lab File: d6651.D
 Acq: 10 Aug 2017 16:53

Tgt Ion:180 Resp: 884
 Ion Ratio Lower Upper
 180 100
 145 27.6 24.6 36.8



Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6652.D
 Acq On : 10 Aug 2017 17:14
 Operator :
 Sample : 170801036-006a
 Misc : samp e8260w
 ALS Vial : 13 Sample Multiplier: 1

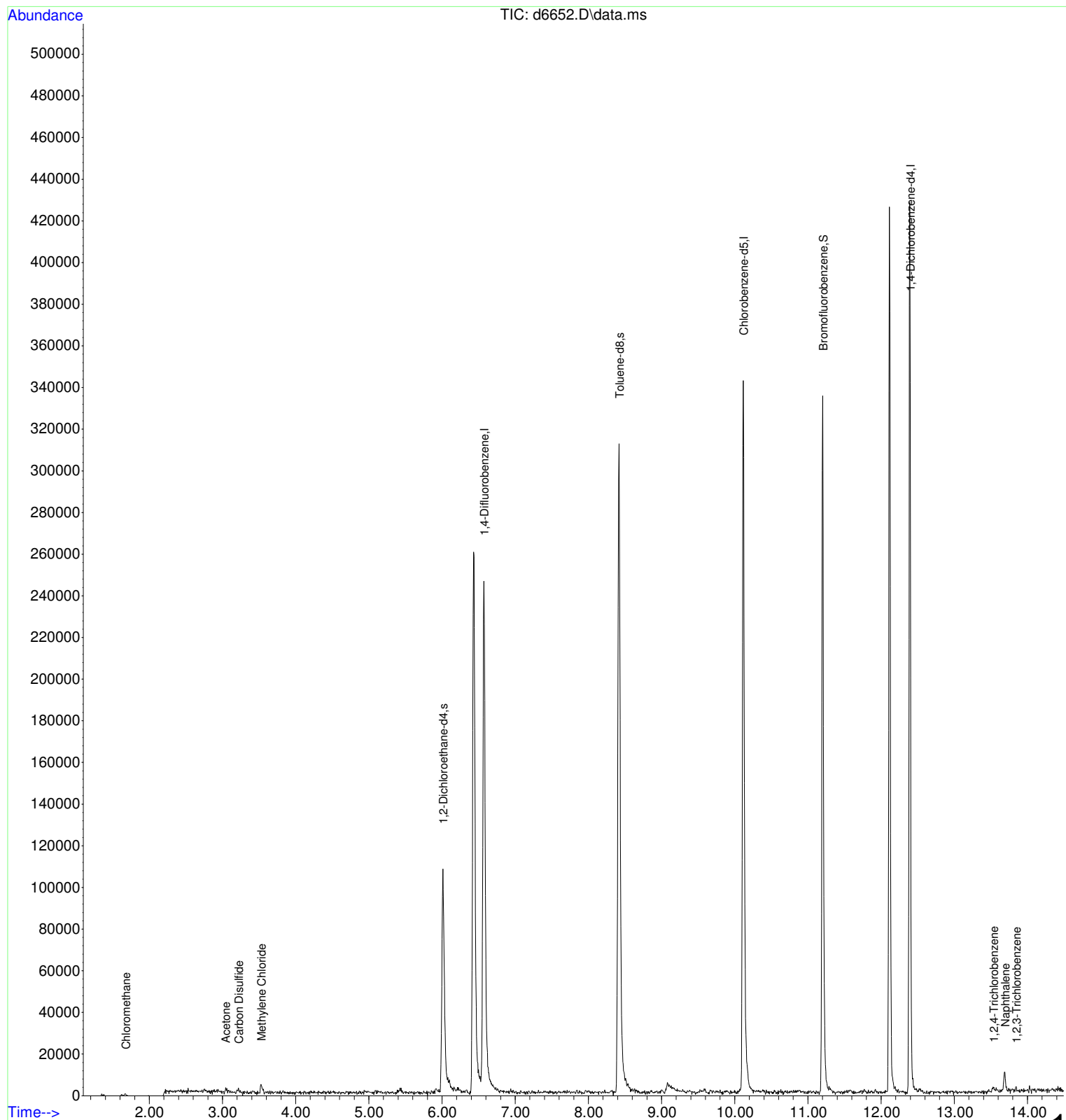
Quant Time: Aug 11 09:04:02 2017
 Quant Method : C:\msdchem\1\qtmetho\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

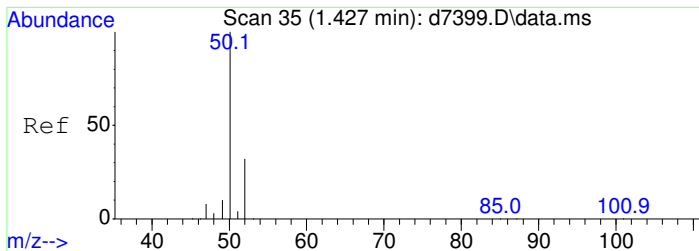
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.572	114	211405	50.00	ug	0.01
34) Chlorobenzene-d5	10.117	117	178133	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	80171	50.00	ug	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.011	65	91634	46.24	ug	0.01
57) Toluene-d8	8.418	98	240005	50.27	ug	0.01
79) Bromofluorobenzene	11.202	95	92465	49.44	ug	0.00
Target Compounds						Qvalue
3) Chloromethane	1.680	50	1211	0.70	ug	# 61
12) Carbon Disulfide	3.222	76	3300	0.86	ug	100
13) Acetone	3.044	43	2072	1.78	ug	75
17) Methylene Chloride	3.531	84	1530	0.98	ug	# 25
89) 1,2,4-Trichlorobenzene	13.530	180	708	0.86	ug	# 75
91) Naphthalene	13.687	128	7624	6.16	ug	97
92) 1,2,3-Trichlorobenzene	13.839	180	842	1.58	ug	# 85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6652.D
Acq On : 10 Aug 2017 17:14
Operator :
Sample : 170801036-006a
Misc : samp e8260w
ALS Vial : 13 Sample Multiplier: 1

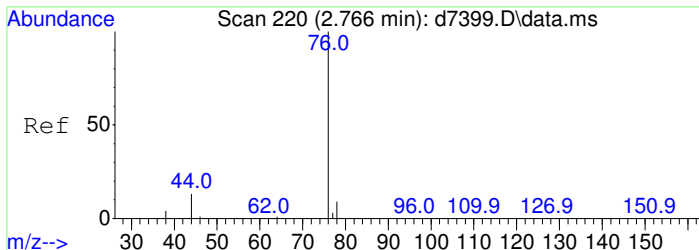
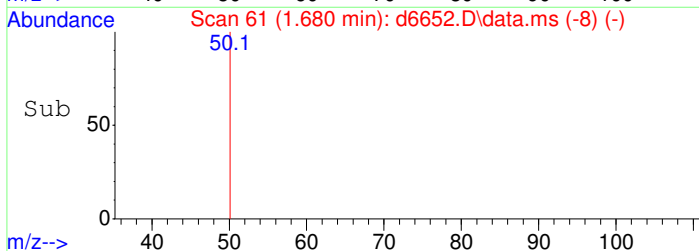
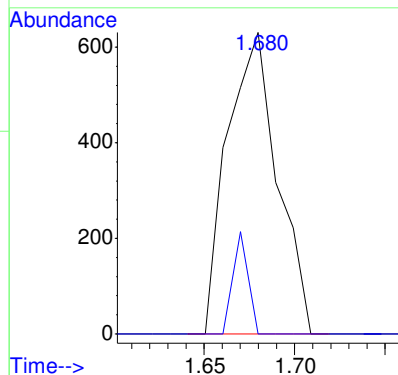
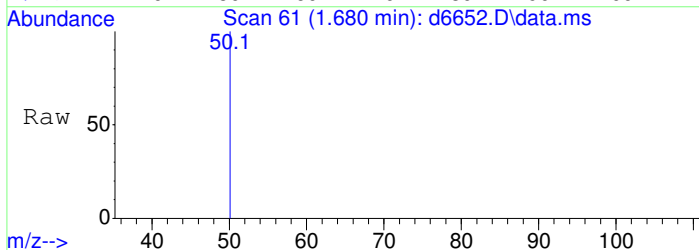
Quant Time: Aug 11 09:04:02 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration





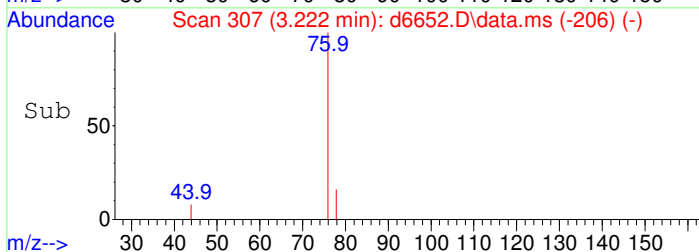
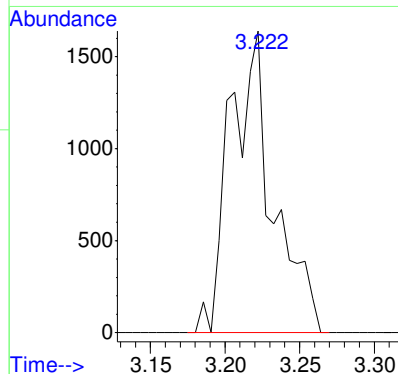
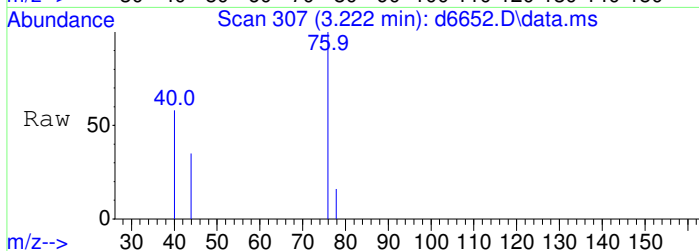
#3
Chloromethane
Concen: 0.70 ug
RT: 1.680 min Scan# 61
Delta R.T. 0.019 min
Lab File: d6652.D
Acq: 10 Aug 2017 17:14

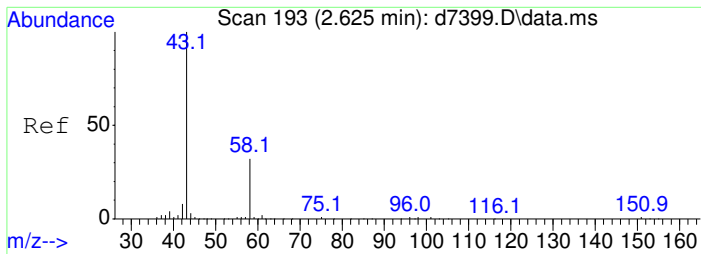
Tgt Ion: 50 Resp: 1211
Ion Ratio Lower Upper
50 100
52 10.3 25.8 38.6#



#12
Carbon Disulfide
Concen: 0.86 ug
RT: 3.222 min Scan# 307
Delta R.T. 0.031 min
Lab File: d6652.D
Acq: 10 Aug 2017 17:14

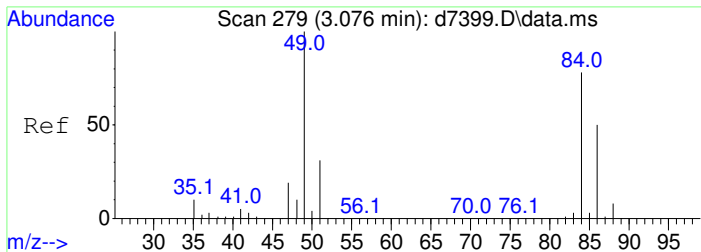
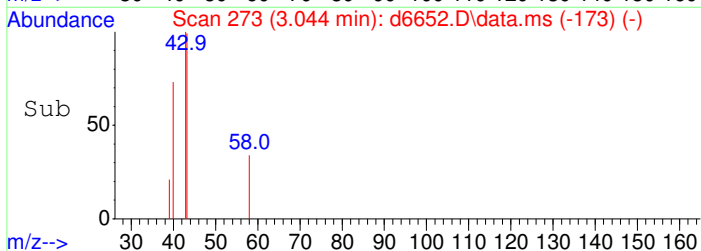
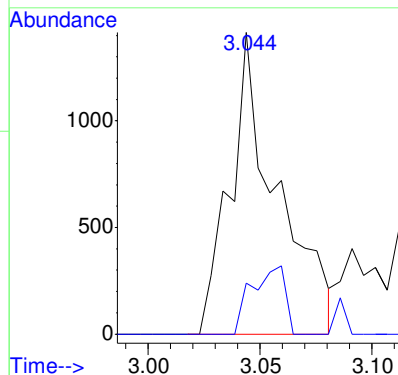
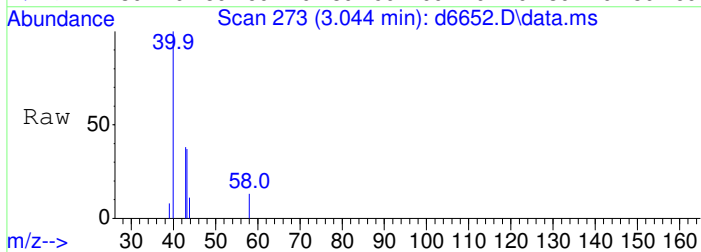
Tgt Ion: 76 Resp: 3300





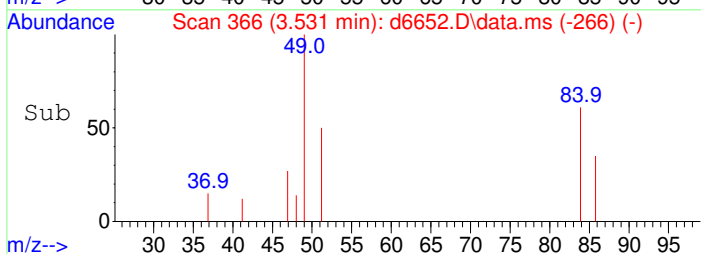
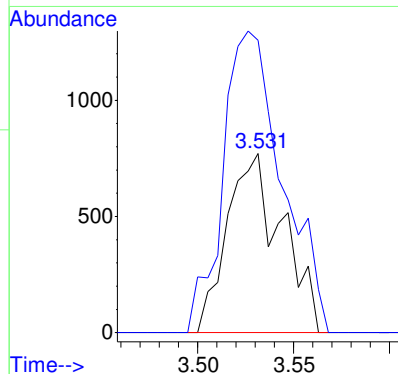
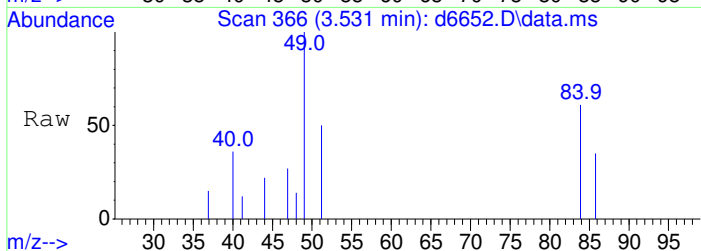
#13
Acetone
Concen: 1.78 ug
RT: 3.044 min Scan# 273
Delta R.T. 0.026 min
Lab File: d6652.D
Acq: 10 Aug 2017 17:14

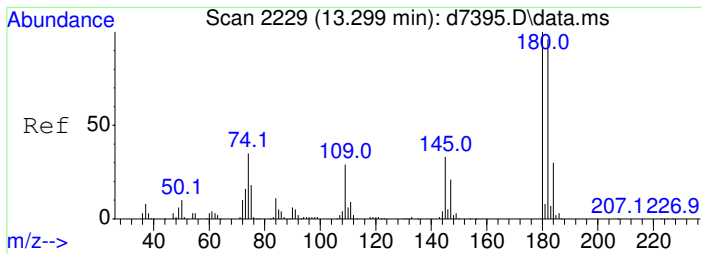
Tgt Ion: 43 Resp: 2072
Ion Ratio Lower Upper
43 100
58 16.0 9.5 49.5



#17
Methylene Chloride
Concen: 0.98 ug
RT: 3.531 min Scan# 366
Delta R.T. 0.026 min
Lab File: d6652.D
Acq: 10 Aug 2017 17:14

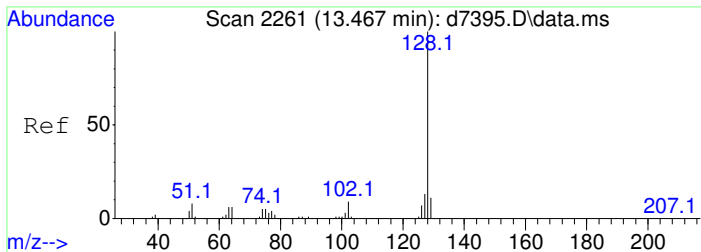
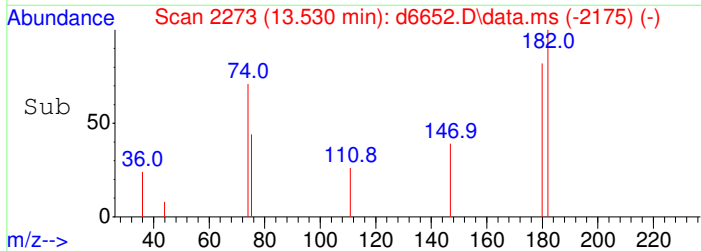
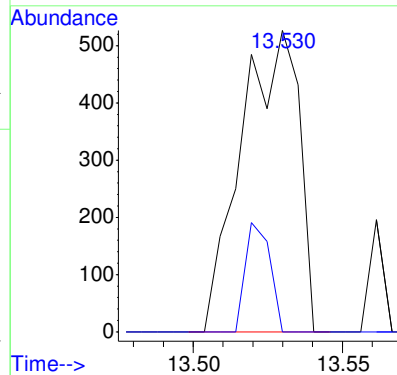
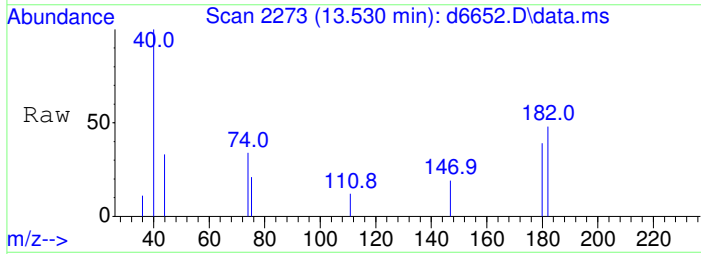
Tgt Ion: 84 Resp: 1530
Ion Ratio Lower Upper
84 100
49 183.1 85.6 125.6#





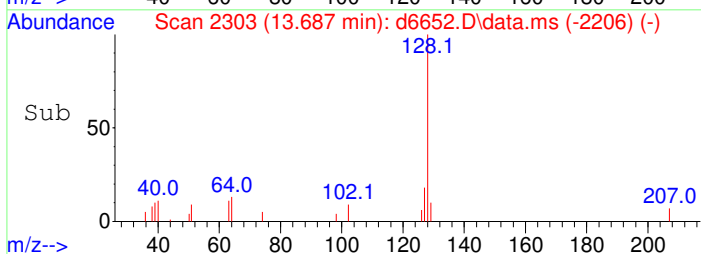
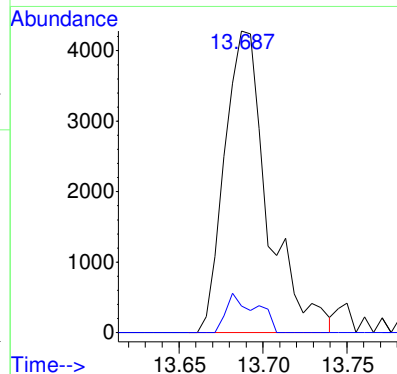
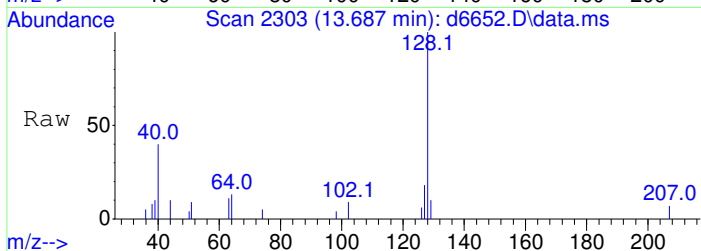
#89
1,2,4-Trichlorobenzene
Concen: 0.86 ug
RT: 13.530 min Scan# 2273
Delta R.T. 0.016 min
Lab File: d6652.D
Acq: 10 Aug 2017 17:14

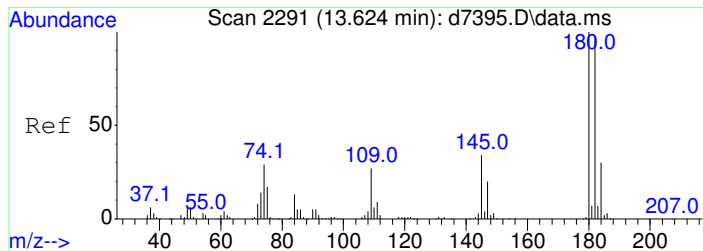
Tgt Ion:180 Resp: 708
Ion Ratio Lower Upper
180 100
145 15.5 23.0 34.6#



#91
Naphthalene
Concen: 6.16 ug
RT: 13.687 min Scan# 2303
Delta R.T. 0.010 min
Lab File: d6652.D
Acq: 10 Aug 2017 17:14

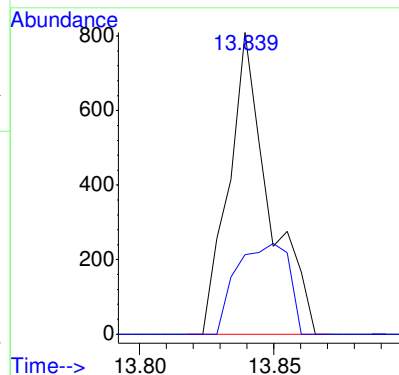
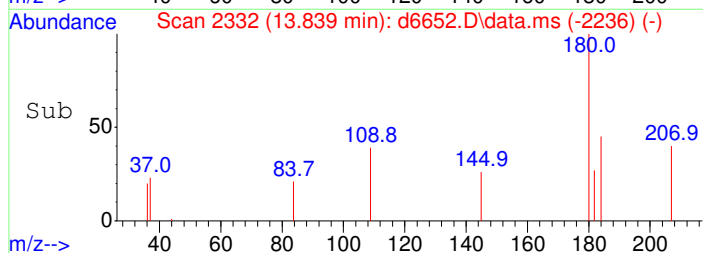
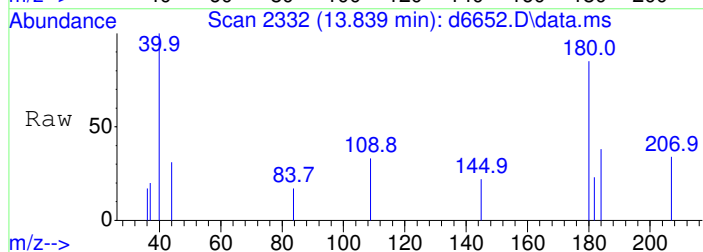
Tgt Ion:128 Resp: 7624
Ion Ratio Lower Upper
128 100
102 9.1 6.6 9.8





#92
 1,2,3-Trichlorobenzene
 Concen: 1.58 ug
 RT: 13.839 min Scan# 2332
 Delta R.T. 0.005 min
 Lab File: d6652.D
 Acq: 10 Aug 2017 17:14

Tgt Ion:180 Resp: 842
 Ion Ratio Lower Upper
 180 100
 145 39.1 24.6 36.8#



Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6653.D
 Acq On : 10 Aug 2017 17:36
 Operator :
 Sample : 170801036-003ams
 Misc : ms e8260w
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 11 09:04:51 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.562	114	186133	50.00	ug	0.00
34) Chlorobenzene-d5	10.112	117	156630	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.393	152	79889	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.001	65	81407	46.65	ug	0.00
57) Toluene-d8	8.413	98	216276	51.52	ug	0.00
79) Bromofluorobenzene	11.197	95	87596	47.00	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.486	85	38145	35.11	ug	98
3) Chloromethane	1.651	50	59555	39.01	ug	100
4) Vinyl Chloride	1.748	62	58184	40.99	ug	99
5) Bromomethane	2.040	94	18315	23.67	ug	98
6) Chloroethane	2.137	64	41153	40.46	ug	96
7) Acrolein	2.834	56	38899	134.94	ug	96
8) Trichlorofluoromethane	2.399	101	103148	49.78	ug	99
9) Freon113	2.966	101	26676	22.21	ug	83
10) 1,1-Dichloroethene	2.945	96	46025m	42.19	ug	
12) Carbon Disulfide	3.186	76	63241	18.71	ug	100
13) Acetone	3.013	43	32625m	31.83	ug	
14) Iodomethane	3.107	142	2405	1.62	ug	# 77
15) Acetonitrile	3.333	40	1704	5.35	ug	# 1
16) Methyl Acetate	3.401	43	28355	14.85	ug	91
17) Methylene Chloride	3.500	84	52868	38.45	ug	# 47
18) Acrylonitrile	3.789	53	96924	125.02	ug	95
19) trans-1,2-Dichloroethene	3.831	96	53110	44.16	ug	89
20) Mtbe	3.852	73	99934	19.06	ug	98
21) 1,1-Dichloroethane	4.318	63	109964	39.29	ug	90
22) Hexane	4.198	43	1043	0.96	ug	# 80
23) cis-1,2-Dichloroethene	5.021	61	101413	38.86	ug	86
24) 2,2-Dichloropropane	5.021	77	48974	21.08	ug	# 56
26) Bromochloromethane	5.299	128	13359	19.73	ug	# 45
28) Chloroform	5.409	83	110328	39.63	ug	97
29) Cyclohexane	5.702	84	39449	19.28	ug	# 68
30) 1,1-Dichloro-1-propene	5.828	75	40640	20.16	ug	# 71
31) 1,2-Dichloroethane	6.090	62	117039	43.36	ug	95
32) 2-Butanone	5.052	43	39724m	32.46	ug	
35) 1,1,1-Trichloroethane	5.629	97	104931	45.20	ug	97
36) Carbon Tetrachloride	5.834	117	97130	49.14	ug	98
37) Benzene	6.075	78	1173539	216.81	ug	100
40) Trichloroethene	6.872	130	58054	47.15	ug	97
41) Methyl Cyclohexane	7.118	83	45586	20.82	ug	# 88
42) 1,2-Dichloropropane	7.139	63	59863	40.89	ug	89
44) Dibromomethane	7.281	174	20009	25.08	ug	# 72
46) Methyl Methacrylate	7.118	69	9334	19.29	ug	# 1
47) Bromodichloromethane	7.490	83	91259	43.54	ug	88
49) cis-1,3-Dichloropropene	8.062	75	93010	41.00	ug	94
50) trans-1,3-Dichloropropene	8.785	75	89384	40.22	ug	99
51) 1,1,2-Trichloroethane	9.016	97	52519	42.69	ug	94
52) 1,3-Dichloropropane	9.226	76	49261	21.04	ug	# 58
53) 1,2-Dibromoethane	9.608	107	51061	41.42	ug	92
54) Dibromochloromethane	9.488	129	65117	43.10	ug	94
55) Bromoform	10.909	173	44018	44.17	ug	95
56) 4-Methyl-2-Pentanone	8.277	43	84679	31.83	ug	86
58) Toluene	8.497	92	143082	42.77	ug	94
60) Tetrachloroethene	9.205	164	48872	50.40	ug	94
61) 2-Hexanone	9.352	43	53994	31.67	ug	79

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6653.D
 Acq On : 10 Aug 2017 17:36
 Operator :
 Sample : 170801036-003ams
 Misc : ms e8260w
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 11 09:04:51 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) Chlorobenzene	10.143	112	149136	39.42	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	29137	21.36	ug	95
65) Ethylbenzene	10.264	106	82679	39.85	ug	93
66) m,p-Xylene	10.379	91	440564	78.69	ug	89
67) o-Xylene	10.746	106	100741	39.31	ug	# 84
68) Styrene	10.757	104	161414	38.53	ug	76
69) Isopropylbenzene	11.077	105	269987	39.77	ug	95
70) Chloroprene	11.077	53	3995	9.49	ug	# 1
71) trans-1,4-Dichloro-2-b...	11.417	88	120	0.43	ug	# 1
72) Bromobenzene	11.318	77	58766	17.04	ug	# 70
73) 1,2,3-Trichloropropane	11.349	75	33787	13.60	ug	86
74) 2-Chlorotoluene	11.486	91	89809	18.78	ug	98
75) 4-Chlorotoluene	11.569	91	98683	18.51	ug	99
76) 1,3,5-Trimethylbenzene	11.564	105	115607	20.23	ug	99
77) tert-Butylbenzene	11.821	119	98246	21.50	ug	98
78) 1,2,4-Trimethylbenzene	11.853	105	108779	18.71	ug	96
80) 1,1,2,2-Tetrachloroethane	11.318	83	60379	32.52	ug	94
81) n-Propylbenzene	11.423	91	148679	19.25	ug	96
82) 1,3-Dichlorobenzene	12.068	146	101820	38.84	ug	# 89
83) sec-Butylbenzene	11.984	105	129158	19.65	ug	98
84) 4-Isopropyltoluene	12.094	119	106599	18.84	ug	# 92
85) 1,4-Dichlorobenzene	12.130	146	100161	39.22	ug	# 77
86) 1,2-Dichlorobenzene	12.403	146	94272	39.49	ug	# 87
87) n-Butylbenzene	12.393	91	85486	18.08	ug	93
88) 1,2-Dibromo-3-Chloropr	12.948	157	7788	31.95	ug	# 64
89) 1,2,4-Trichlorobenzene	13.515	180	33402	40.78	ug	98
90) Hexachlorobutadiene	13.625	225	15183	24.21	ug	95
91) Naphthalene	13.677	128	33663	27.30	ug	96
92) 1,2,3-Trichlorobenzene	13.834	180	10880	20.53	ug	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6654.D
 Acq On : 10 Aug 2017 17:57
 Operator :
 Sample : 170801036-003amsd
 Misc : msd e8260w
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 11 09:07:44 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	210935	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	185964	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	86647	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.006	65	94410	47.74	ug	0.00
57) Toluene-d8	8.413	98	251035	50.36	ug	0.00
79) Bromofluorobenzene	11.197	95	98892	48.93	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	43196	35.08	ug	99
3) Chloromethane	1.670	50	71627	41.41	ug	100
4) Vinyl Chloride	1.768	62	67319	41.85	ug	98
5) Bromomethane	2.059	94	20947	23.88	ug	96
6) Chloroethane	2.157	64	36761	31.89	ug	95
7) Acrolein	2.850	56	45144	138.19	ug	97
8) Trichlorofluoromethane	2.415	101	112984	48.12	ug	99
9) Freon113	2.981	101	28087	20.63	ug	91
10) 1,1-Dichloroethene	2.960	96	49780	40.27	ug	# 73
12) Carbon Disulfide	3.201	76	75159	19.62	ug	100
13) Acetone	3.023	43	31410	27.04	ug	87
14) Iodomethane	3.128	142	2446	1.46	ug	94
15) Acetonitrile	3.343	40	383	1.06	ug	# 1
16) Methyl Acetate	3.427	43	29939	13.83	ug	94
17) Methylene Chloride	3.516	84	57105	36.65	ug	# 42
18) Acrylonitrile	3.804	53	114741	130.60	ug	100
19) trans-1,2-Dichloroethene	3.846	96	58332	42.80	ug	90
20) Mtbe	3.867	73	110821	18.66	ug	100
21) 1,1-Dichloroethane	4.334	63	119570	37.70	ug	89
22) Hexane	4.192	43	1233	1.00	ug	# 73
23) cis-1,2-Dichloroethene	5.031	61	117315	39.67	ug	86
24) 2,2-Dichloropropane	5.026	77	57525	21.85	ug	# 63
26) Bromochloromethane	5.309	128	16920	22.05	ug	# 60
28) Chloroform	5.419	83	124115	39.34	ug	100
29) Cyclohexane	5.713	84	45093	19.45	ug	# 73
30) 1,1-Dichloro-1-propene	5.839	75	46565	20.39	ug	# 72
31) 1,2-Dichloroethane	6.101	62	134789	44.07	ug	96
32) 2-Butanone	5.063	43	39950	28.81	ug	94
35) 1,1,1-Trichloroethane	5.634	97	123684	44.88	ug	98
36) Carbon Tetrachloride	5.839	117	106400	45.34	ug	93
37) Benzene	6.085	78	1297759m	201.94	ug	
40) Trichloroethene	6.882	130	68767	47.04	ug	96
41) Methyl Cyclohexane	7.128	83	50643	19.48	ug	# 84
42) 1,2-Dichloropropane	7.144	63	69259	39.84	ug	90
44) Dibromomethane	7.291	174	23641	24.95	ug	# 71
45) 1,4-Dioxane	7.485	88	66	2.34	ug	# 22
46) Methyl Methacrylate	7.123	69	10597	18.45	ug	# 1
47) Bromodichloromethane	7.495	83	103084	41.42	ug	91
49) cis-1,3-Dichloropropene	8.072	75	108891	40.42	ug	100
50) trans-1,3-Dichloropropene	8.785	75	106618	40.41	ug	98
51) 1,1,2-Trichloroethane	9.016	97	62090	42.51	ug	89
52) 1,3-Dichloropropane	9.226	76	58038	20.88	ug	# 56
53) 1,2-Dibromoethane	9.608	107	63111	43.12	ug	96
54) Dibromochloromethane	9.488	129	79019	44.05	ug	93
55) Bromoform	10.909	173	53039	44.82	ug	94
56) 4-Methyl-2-Pentanone	8.282	43	102114	32.33	ug	86
58) Toluene	8.502	92	173477	43.68	ug	97
60) Tetrachloroethene	9.205	164	55788	48.46	ug	95

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6654.D
 Acq On : 10 Aug 2017 17:57
 Operator :
 Sample : 170801036-003amsd
 Misc : msd e8260w
 ALS Vial : 15 Sample Multiplier: 1

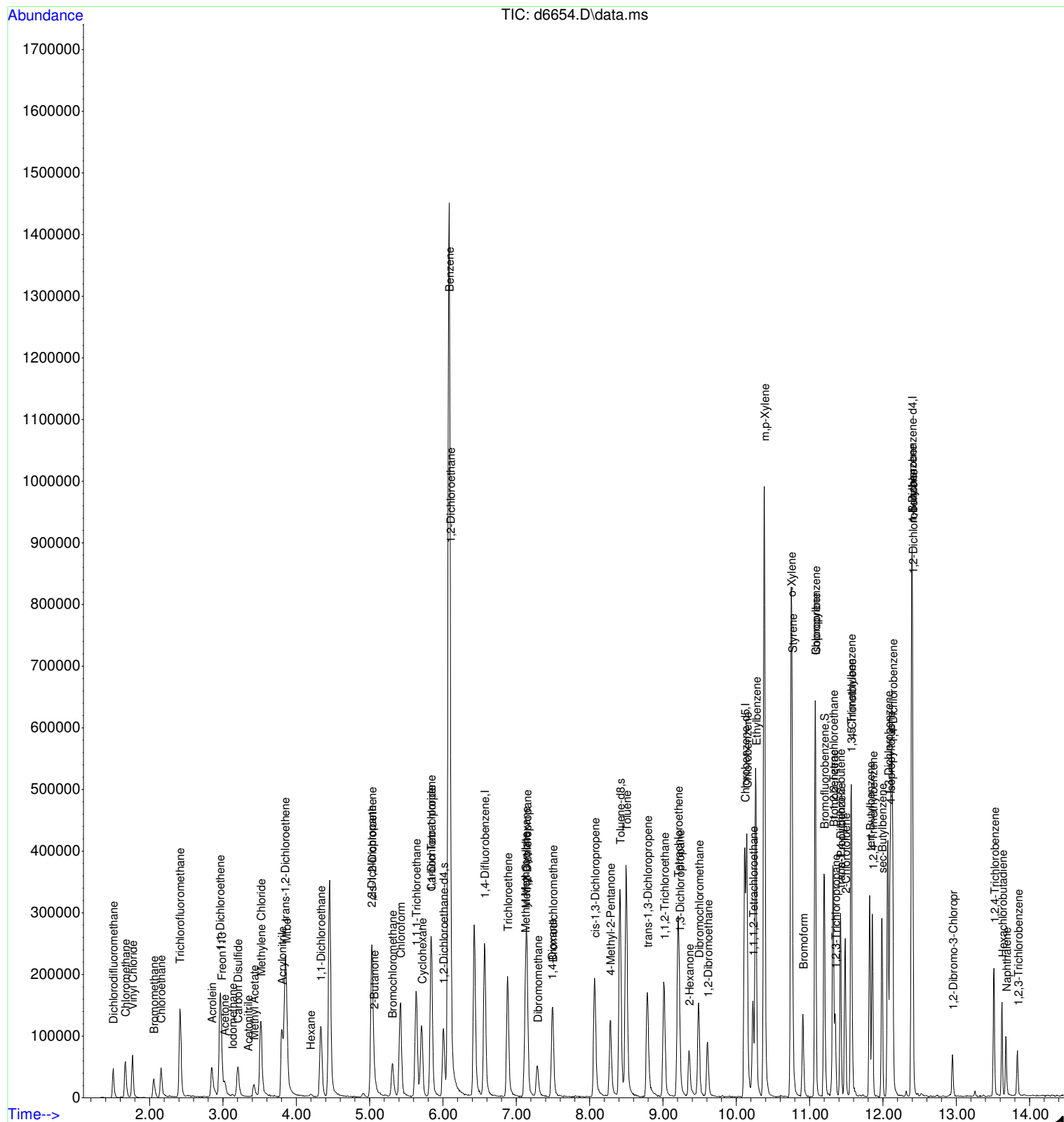
Quant Time: Aug 11 09:07:44 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 2-Hexanone	9.357	43	62943	31.09	ug	86
63) Chlorobenzene	10.143	112	185820	45.29	ug	99
64) 1,1,1,2-Tetrachloroethane	10.227	133	33764	22.82	ug	95
65) Ethylbenzene	10.269	106	103302	45.90	ug	99
66) m,p-Xylene	10.384	91	541283	89.14	ug	91
67) o-Xylene	10.746	106	126486	45.51	ug	88
68) Styrene	10.762	104	198667	43.72	ug	78
69) Isopropylbenzene	11.076	105	326614	44.36	ug	98
70) Chloroprene	11.076	53	4619	10.12	ug	# 1
71) trans-1,4-Dichloro-2-b...	11.417	88	208	0.69	ug	# 1
72) Bromobenzene	11.323	77	74258	19.86	ug	# 67
73) 1,2,3-Trichloropropane	11.349	75	41387	15.37	ug	# 83
74) 2-Chlorotoluene	11.485	91	110002	21.21	ug	100
75) 4-Chlorotoluene	11.569	91	123775	21.40	ug	98
76) 1,3,5-Trimethylbenzene	11.564	105	138315	22.32	ug	100
77) tert-Butylbenzene	11.821	119	117181	23.65	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	127196	20.17	ug	93
80) 1,1,2,2-Tetrachloroethane	11.318	83	75975	37.73	ug	96
81) n-Propylbenzene	11.422	91	179883	21.48	ug	97
82) 1,3-Dichlorobenzene	12.067	146	124354	43.74	ug	# 89
83) sec-Butylbenzene	11.983	105	151879	21.30	ug	99
84) 4-Isopropyltoluene	12.099	119	127371	20.76	ug	# 94
85) 1,4-Dichlorobenzene	12.130	146	123273	44.50	ug	# 80
86) 1,2-Dichlorobenzene	12.403	146	118957	45.94	ug	# 90
87) n-Butylbenzene	12.392	91	107527	20.96	ug	90
88) 1,2-Dibromo-3-Chloropr	12.948	157	11929	45.12	ug	# 53
89) 1,2,4-Trichlorobenzene	13.514	180	46750	52.63	ug	97
90) Hexachlorobutadiene	13.625	225	19489	28.65	ug	96
91) Naphthalene	13.677	128	59970	44.85	ug	98
92) 1,2,3-Trichlorobenzene	13.834	180	16278	28.32	ug	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : C:\msdchem\1\DATA\081017\
Data File : d6654.D
Acq On : 10 Aug 2017 17:57
Operator :
Sample : 170801036-003amsd
Misc : msd e8260w
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 11 09:07:44 2017
Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration



-114-

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6655.D
 Acq On : 10 Aug 2017 18:18
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 11 09:22:06 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.567	114	224829	50.00	ug	0.00
34) Chlorobenzene-d5	10.117	117	185589	50.00	ug	0.00
62) 1,4-Dichlorobenzene-d4	12.392	152	88755	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.006	65	97499	46.26	ug	0.00
57) Toluene-d8	8.413	98	259015	52.07	ug	0.00
79) Bromofluorobenzene	11.197	95	101636	49.09	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.505	85	42368	32.28	ug	99
3) Chloromethane	1.670	50	71676	38.87	ug	100
4) Vinyl Chloride	1.767	62	65371	38.13	ug	98
5) Bromomethane	2.059	94	24873m	26.61	ug	
6) Chloroethane	2.156	64	51216m	41.69	ug	
7) Acrolein	2.845	56	47075	135.19	ug	93
8) Trichlorofluoromethane	2.415	101	113500	45.35	ug	97
9) Freon113	2.976	101	29647	20.43	ug	91
10) 1,1-Dichloroethene	2.960	96	53956	40.95	ug	# 67
12) Carbon Disulfide	3.201	76	79621	19.50	ug	100
13) Acetone	3.023	43	40687m	32.86	ug	
14) Iodomethane	3.123	142	2121	1.18	ug	# 64
15) Acetonitrile	3.317	40	1780	4.63	ug	# 1
16) Methyl Acetate	3.416	43	35931m	15.57	ug	
17) Methylene Chloride	3.516	84	67551	40.67	ug	# 54
18) Acrylonitrile	3.799	53	120116	128.27	ug	98
19) trans-1,2-Dichloroethene	3.846	96	63839	43.94	ug	# 86
20) Mtbe	3.867	73	126865	20.04	ug	96
21) 1,1-Dichloroethane	4.334	63	139395	41.23	ug	90
23) cis-1,2-Dichloroethene	5.026	61	114883	36.45	ug	86
24) 2,2-Dichloropropane	5.031	77	64467	22.98	ug	# 63
26) Bromochloromethane	5.314	128	17757	21.71	ug	# 51
28) Chloroform	5.419	83	142903	42.50	ug	98
29) Cyclohexane	5.707	84	48619	19.68	ug	# 73
30) 1,1-Dichloro-1-propene	5.844	75	52329	21.50	ug	# 72
31) 1,2-Dichloroethane	6.095	62	133924	41.08	ug	94
32) 2-Butanone	5.063	43	48480m	32.80	ug	
35) 1,1,1-Trichloroethane	5.634	97	135198	49.15	ug	99
36) Carbon Tetrachloride	5.839	117	117510	50.17	ug	96
37) Benzene	6.085	78	301888	47.07	ug	100
40) Trichloroethene	6.882	130	75045	51.44	ug	94
41) Methyl Cyclohexane	7.123	83	53910	20.78	ug	# 85
42) 1,2-Dichloropropane	7.144	63	77148	44.47	ug	90
44) Dibromomethane	7.291	174	25242	26.70	ug	# 75
46) Methyl Methacrylate	7.128	69	12111	21.13	ug	# 1
47) Bromodichloromethane	7.490	83	113124	45.55	ug	90
49) cis-1,3-Dichloropropene	8.067	75	120373	44.78	ug	97
50) trans-1,3-Dichloropropene	8.790	75	112206	42.61	ug	96
51) 1,1,2-Trichloroethane	9.011	97	67880	46.57	ug	91
52) 1,3-Dichloropropane	9.220	76	63583	22.92	ug	# 60
53) 1,2-Dibromoethane	9.603	107	65762	45.03	ug	94
54) Dibromochloromethane	9.488	129	87432	48.84	ug	96
55) Bromoform	10.909	173	57431	48.63	ug	97
56) 4-Methyl-2-Pentanone	8.282	43	108079m	34.29	ug	
58) Toluene	8.502	92	181932	45.90	ug	94
60) Tetrachloroethene	9.210	164	62147	54.09	ug	97
61) 2-Hexanone	9.357	43	67188	33.26	ug	84
63) Chlorobenzene	10.143	112	199852	47.55	ug	100

Data Path : C:\msdchem\1\DATA\081017\
 Data File : d6655.D
 Acq On : 10 Aug 2017 18:18
 Operator :
 Sample : lcs
 Misc : lcs e8260w
 ALS Vial : 16 Sample Multiplier: 1

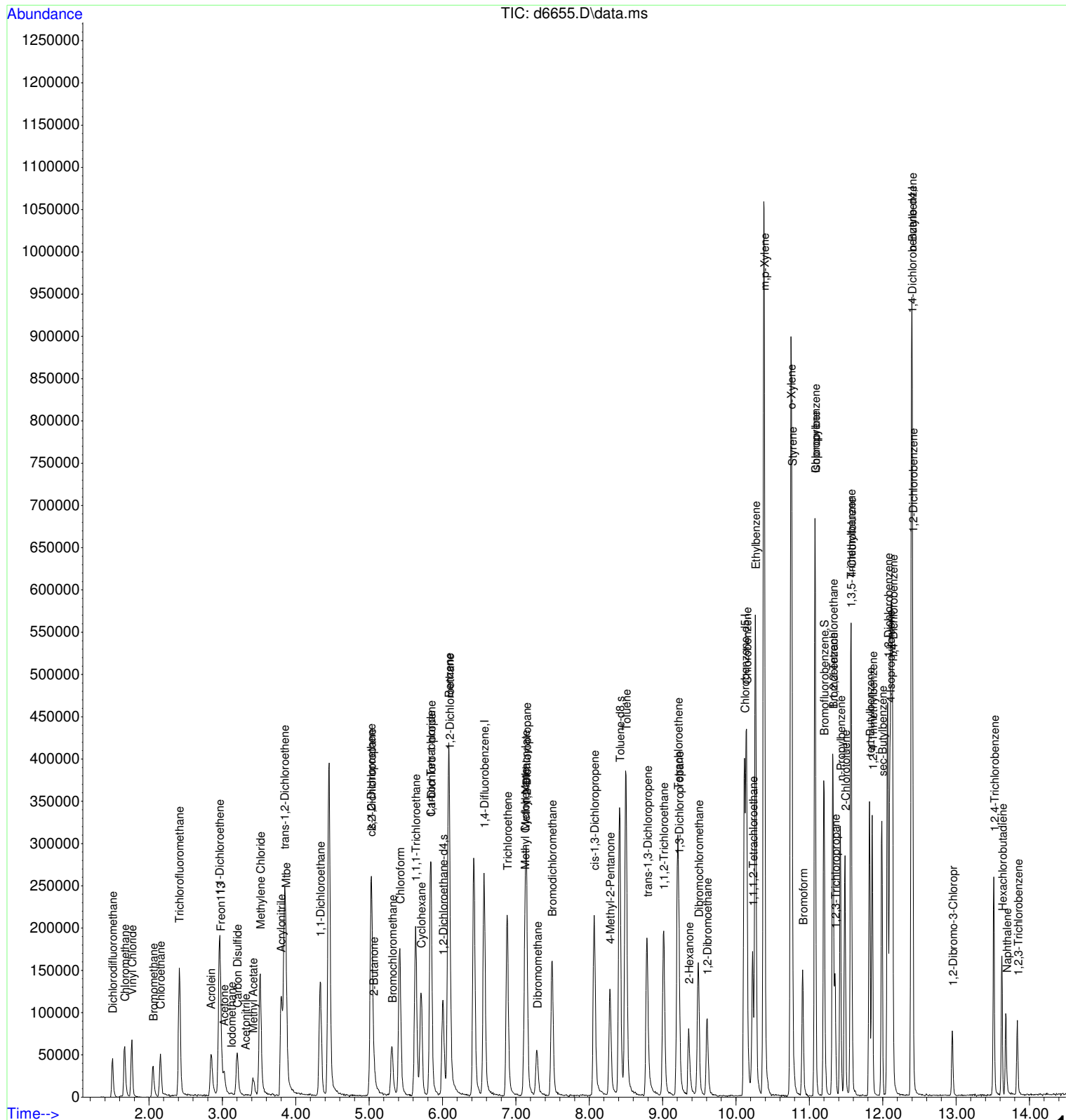
Quant Time: Aug 11 09:22:06 2017
 Quant Method : C:\msdchem\1\qtmethode\fixedw8260-072517.M
 Quant Title : Voa Calibration 8260 Water
 QLast Update : Tue Aug 08 12:43:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,1,1,2-Tetrachloroethane	10.227	133	37442	24.70	ug	93
65) Ethylbenzene	10.264	106	106998	46.42	ug	98
66) m,p-Xylene	10.384	91	566035	91.00	ug	93
67) o-Xylene	10.746	106	134100	47.10	ug	88
68) Styrene	10.762	104	212371	45.63	ug	77
69) Isopropylbenzene	11.076	105	345420	45.80	ug	97
70) Chloroprene	11.076	53	5385	11.52	ug	# 1
72) Bromobenzene	11.318	77	80141	20.92	ug	# 71
73) 1,2,3-Trichloropropane	11.349	75	43961	15.93	ug	88
74) 2-Chlorotoluene	11.485	91	123720	23.28	ug	98
75) 4-Chlorotoluene	11.569	91	136271	23.00	ug	97
76) 1,3,5-Trimethylbenzene	11.564	105	149058	23.48	ug	98
77) tert-Butylbenzene	11.821	119	126279	24.88	ug	100
78) 1,2,4-Trimethylbenzene	11.858	105	140982	21.82	ug	91
80) 1,1,2,2-Tetrachloroethane	11.318	83	80544	39.05	ug	93
81) n-Propylbenzene	11.422	91	191208	22.29	ug	98
82) 1,3-Dichlorobenzene	12.067	146	139905	48.04	ug	# 89
83) sec-Butylbenzene	11.989	105	163504	22.39	ug	100
84) 4-Isopropyltoluene	12.099	119	136839	21.77	ug	# 93
85) 1,4-Dichlorobenzene	12.135	146	136863	48.24	ug	# 78
86) 1,2-Dichlorobenzene	12.408	146	134280	50.63	ug	# 90
87) n-Butylbenzene	12.398	91	116688	22.21	ug	91
88) 1,2-Dibromo-3-Chloropr	12.948	157	13609	50.25	ug	# 20
89) 1,2,4-Trichlorobenzene	13.514	180	53763	59.09	ug	97
90) Hexachlorobutadiene	13.624	225	21856	31.37	ug	# 95
91) Naphthalene	13.682	128	61637	45.00	ug	# 95
92) 1,2,3-Trichlorobenzene	13.834	180	18245	30.99	ug	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed


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Data Path   : C:\msdchem\1\DATA\081017\  
Data File  : d6655.D  
Acq On     : 10 Aug 2017   18:18  
Operator   :  
Sample     : lcs  
Misc       : lcs   e8260w  
ALS Vial   : 16     Sample Multiplier: 1
```

Quant Time: Aug 11 09:22:06 2017
Quant Method : C:\msdchem\1\qtmetho ds\fixedw8260-072517.M
Quant Title : Voa Calibration 8260 Water
QLast Update : Tue Aug 08 12:43:57 2017
Response via : Initial Calibration



Analyst:

SMD

Standards:

BFA/KA1230T

Date:

8/9/10 8/10/17

Vial 1 used for samples
unless otherwise noted below

A/S Pos.	File ID	Sample ID	DF	pH	QT Method	Review	Upload	QA/QC Checks			Comments
								Surr Check	IS Check	Res. Cl ₂	
B	N4034	BFB	-Tune good								10:52
1	35	ICS	X25		W5245072417	✓	✓	210K	153K		73K
2	36	MB-56TB				✓	✓	OK	OK		
3	37	CS09078-2A				✓	✓	OK	OK		
4	38	-2AMS				✓	✓	OK	OK		
B	39	BFB	5ML		-Tune good		✓				12:38
B	40	V01050			Fixed						
B	41	V01K			W8260-						
B	42	V01K			08072617						
6	43	V01K									
7	44	V51050				✓	✓	235K, 197K, 100K			
B	45	V01K									
B	46	V01K									
8	47	V01K				✓	✓	OK	OK		
9	48	CS01036-1A				✓	✓	OK	OK		1826aw
10	49	-2A				✓	✓	OK	OK		
11	50	-3A				✓	✓	OK	OK		
12	51	-5A				✓	✓	OK	OK		
13	52	-10A				✓	✓	OK	OK		
14	53	-3AMS				✓	✓	OK	OK		
15	54	-3AMSD				✓	✓	OK	OK		
16	55	ICS				✓	✓	OK	OK		
B	56	BFB									
17	57	ICS			HAMBI-073717	✓	✓	177K, 94K, 121K			346.79
18	58	ICSD				✓	✓	OK	OK		352.88
B	59	V01K							OK		
19	60	V01K				✓	✓	OK	OK		1189.23
20	61	CS04006-2A	X25			✓	✓	OK	OK		pharmvols 1189.23
B	62	BFB	-Tune good								21:04
B	63	BFB									
21	64	ICS				✓	✓	303K, 221K, 102K			
22	65	ICSD				✓	✓	OK	OK		

REVIEW

DATE

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Adirondack Environmental Services, Inc**Date:** 21-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** MW-4S**Work Order:** 170801036**Collection Date:** 8/1/2017 11:25:00 AM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-001**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	ND	3.00		µg/L	1	8/15/2017 3:52:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 21-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** MW-2**Work Order:** 170801036**Collection Date:** 8/1/2017 12:00:00 PM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-002**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	2.86	3.00	J	µg/L	1	8/15/2017 3:56:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 21-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** PZ-7**Work Order:** 170801036**Collection Date:** 8/1/2017 12:30:00 PM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-003**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	ND	3.00		µg/L	1	8/15/2017 4:02:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentatively Identified Compound-Estimated Conc.

Adirondack Environmental Services, Inc**Date:** 21-Aug-17**CLIENT:** Balchem Corporation**Client Sample ID:** Sump**Work Order:** 170801036**Collection Date:** 8/1/2017 10:43:00 AM**Reference:** Groundwater Monitoring / Former Drum Dis**Lab Sample ID:** 170801036-005**PO#:** MRO-1-6719**Matrix:** GROUNDWATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS - EPA 200.7						Analyst: KH
(Prep: SW3010A - 8/8/2017)						
Lead	ND	3.00		µg/L	1	8/15/2017 4:36:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level
E - Value above quantitation range-Estimate

S - LCS Spike below accepted limits (+ above)
Z - RPD outside accepted recovery limits
N - Matrix Spike below accepted limits (+ above)
T - Tentitively Identified Compound-Estimated Conc.

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT**BatchID: 56086**

PDS	SeqNo: 2236358		PrepDate:			TestNo: E200.7		RunNo: 150293			
	Samp ID: 170801036-003 (PZ-7)		PrepRef:(SW3010A)			Units: µg/L		Analysis Date: 8/15/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	38.51	3.00	40	0	96.3	75	125	0	0		
SD	SeqNo: 2236359		PrepDate:			TestNo: E200.7		RunNo: 150293			
	Samp ID: 170801036-003 (PZ-7)		PrepRef:(SW3010A)			Units: µg/L		Analysis Date: 8/15/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	15.0	0	0	0	0	0	0	0	0	
MBLK	SeqNo: 2236351		PrepDate:8/8/2017 9:			TestNo: E200.7		RunNo: 150293			
	Samp ID: MB-56086		PrepRef:(SW3010A)			Units: µg/L		Analysis Date: 8/15/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	3.00									
LCS	SeqNo: 2236352		PrepDate:8/8/2017 9:			TestNo: E200.7		RunNo: 150293			
	Samp ID: LCS-56086		PrepRef:(SW3010A)			Units: µg/L		Analysis Date: 8/15/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1946	3.00	2000	0	97.3	80	120	0	0		
MS	SeqNo: 2236357		PrepDate:8/8/2017 9:			TestNo: E200.7		RunNo: 150293			
	Samp ID: 170801036-003 (PZ-7)		PrepRef:(SW3010A)			Units: µg/L		Analysis Date: 8/15/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	18.81	3.00	20	0	94.1	75	125	0	0		
DUP	SeqNo: 2236356		PrepDate:8/8/2017 9:			TestNo: E200.7		RunNo: 150293			
	Samp ID: 170801036-003		PrepRef:			Units: µg/L		Analysis Date: 8/15/2017			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.474	3.00	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCB	SeqNo: 2236259	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	0.1927	60.0	0	0	0	0	0	0	0		
Arsenic	0.04617	10.0	0	0	0	0	0	0	0		
Barium	0.1879	200	0	0	0	0	0	0	0		
Beryllium	0.1286	5.00	0	0	0	0	0	0	0		
Boron	ND	50.0	0	0	0	0	0	0	0		
Cadmium	ND	5.00	0	0	0	0	0	0	0		
Calcium	2.408	5000	0	0	0	0	0	0	0		
Chromium	0.3516	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	1.205	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	0.02505	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	ND	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	3.929	5000	0	0	0	0	0	0	0		
Selenium	0.9084	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	ND	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	1.184	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	ND	50.0	0	0	0	0	0	0	0		
Vanadium	2.481	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2236345	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCB	SeqNo: 2236345	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	ND	200	0	0	0	0	0	0	0		
Beryllium	0.1088	5.00	0	0	0	0	0	0	0		
Boron	0.3838	50.0	0	0	0	0	0	0	0		
Cadmium	0.1285	5.00	0	0	0	0	0	0	0		
Calcium	ND	5000	0	0	0	0	0	0	0		
Chromium	1.488	10.0	0	0	0	0	0	0	0		
Cobalt	0.1862	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	3.724	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	0.0799	15.0	0	0	0	0	0	0	0		
Molybdenum	0.2173	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	0.947	5.00	0	0	0	0	0	0	0		
Silver	0.6812	10.0	0	0	0	0	0	0	0		
Sodium	7.872	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	1.086	10.0	0	0	0	0	0	0	0		
Tin	0.7348	50.0	0	0	0	0	0	0	0		
Titanium	0.08511	50.0	0	0	0	0	0	0	0		
Vanadium	7.313	50.0	0	0	0	0	0	0	0		
Zinc	0.07486	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2236349	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-3	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCB	SeqNo: 2236349	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-3	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	6.694	200	0	0	0	0	0	0	0		
Antimony	ND	60.0	0	0	0	0	0	0	0		
Arsenic	0.5796	10.0	0	0	0	0	0	0	0		
Barium	0.5104	200	0	0	0	0	0	0	0		
Beryllium	0.215	5.00	0	0	0	0	0	0	0		
Boron	1.783	50.0	0	0	0	0	0	0	0		
Cadmium	0.05972	5.00	0	0	0	0	0	0	0		
Calcium	6.668	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	0.04722	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	ND	3.00	0	0	0	0	0	0	0		
Lithium	ND	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	0.00771	15.0	0	0	0	0	0	0	0		
Molybdenum	0.698	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	ND	5.00	0	0	0	0	0	0	0		
Silver	0.4255	10.0	0	0	0	0	0	0	0		
Sodium	30.74	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	1.168	10.0	0	0	0	0	0	0	0		
Tin	0.5806	50.0	0	0	0	0	0	0	0		
Titanium	0.7872	50.0	0	0	0	0	0	0	0		
Vanadium	1.029	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2236361	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-4	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCB	SeqNo: 2236361	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-4	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	ND	200	0	0	0	0	0	0	0		
Antimony	0.1736	60.0	0	0	0	0	0	0	0		
Arsenic	ND	10.0	0	0	0	0	0	0	0		
Barium	0.2864	200	0	0	0	0	0	0	0		
Beryllium	0.1492	5.00	0	0	0	0	0	0	0		
Boron	0.5768	50.0	0	0	0	0	0	0	0		
Cadmium	0.03685	5.00	0	0	0	0	0	0	0		
Calcium	0.4631	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	0.02098	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	0.1496	3.00	0	0	0	0	0	0	0		
Lithium	31.04	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	0.01721	15.0	0	0	0	0	0	0	0		
Molybdenum	0.1389	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	3.189	5000	0	0	0	0	0	0	0		
Selenium	0.3061	5.00	0	0	0	0	0	0	0		
Silver	ND	10.0	0	0	0	0	0	0	0		
Sodium	74.43	5000	0	0	0	0	0	0	0		
Strontium	2.425	5.00	0	0	0	0	0	0	0		
Thallium	0.4217	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	0.5958	50.0	0	0	0	0	0	0	0		
Vanadium	1.241	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCB	SeqNo: 2236368	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-5	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCB	SeqNo: 2236368	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCB-5	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	4.23	200	0	0	0	0	0	0	0		
Antimony	0.3853	60.0	0	0	0	0	0	0	0		
Arsenic	1.156	10.0	0	0	0	0	0	0	0		
Barium	0.997	200	0	0	0	0	0	0	0		
Beryllium	0.09497	5.00	0	0	0	0	0	0	0		
Boron	1.926	50.0	0	0	0	0	0	0	0		
Cadmium	0.00001	5.00	0	0	0	0	0	0	0		
Calcium	2.039	5000	0	0	0	0	0	0	0		
Chromium	ND	10.0	0	0	0	0	0	0	0		
Cobalt	ND	50.0	0	0	0	0	0	0	0		
Copper	ND	25.0	0	0	0	0	0	0	0		
Iron	ND	100	0	0	0	0	0	0	0		
Lead	0.07511	3.00	0	0	0	0	0	0	0		
Lithium	29.56	50.0	0	0	0	0	0	0	0		
Magnesium	ND	5000	0	0	0	0	0	0	0		
Manganese	ND	15.0	0	0	0	0	0	0	0		
Molybdenum	0.5307	50.0	0	0	0	0	0	0	0		
Nickel	ND	40.0	0	0	0	0	0	0	0		
Potassium	ND	5000	0	0	0	0	0	0	0		
Selenium	0.5356	5.00	0	0	0	0	0	0	0		
Silver	1.616	10.0	0	0	0	0	0	0	0		
Sodium	30.66	5000	0	0	0	0	0	0	0		
Strontium	ND	5.00	0	0	0	0	0	0	0		
Thallium	0.1458	10.0	0	0	0	0	0	0	0		
Tin	ND	50.0	0	0	0	0	0	0	0		
Titanium	1.553	50.0	0	0	0	0	0	0	0		
Vanadium	4.858	50.0	0	0	0	0	0	0	0		
Zinc	ND	20.0	0	0	0	0	0	0	0		

CCV	SeqNo: 2236258	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCV	SeqNo: 2236258	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2122	200	2000	0	106	90	110	0	0		
Antimony	2029	60.0	2000	0	101	90	110	0	0		
Arsenic	2002	10.0	2000	0	100	90	110	0	0		
Barium	2001	200	2000	0	100	90	110	0	0		
Beryllium	1964	5.00	2000	0	98.2	90	110	0	0		
Boron	2069	50.0	2000	0	103	90	110	0	0		
Cadmium	2003	5.00	2000	0	100	90	110	0	0		
Calcium	1990	5000	2000	0	99.5	90	110	0	0		
Chromium	1978	10.0	2000	0	98.9	90	110	0	0		
Cobalt	1954	50.0	2000	0	97.7	90	110	0	0		
Copper	2030	25.0	2000	0	101	90	110	0	0		
Iron	2076	100	2000	0	104	90	110	0	0		
Lead	2019	3.00	2000	0	101	90	110	0	0		
Lithium	1972	50.0	2000	0	98.6	90	110	0	0		
Magnesium	2160	5000	2000	0	108	90	110	0	0		
Manganese	1946	15.0	2000	0	97.3	90	110	0	0		
Molybdenum	2021	50.0	2000	0	101	90	110	0	0		
Nickel	2064	40.0	2000	0	103	90	110	0	0		
Potassium	9498	5000	10000	0	95	90	110	0	0		
Selenium	1978	5.00	2000	0	98.9	90	110	0	0		
Silver	503.3	10.0	500	0	101	90	110	0	0		
Sodium	2043	5000	2000	0	102	90	110	0	0		
Strontium	1987	5.00	2000	0	99.3	90	110	0	0		
Thallium	1972	10.0	2000	0	98.6	90	110	0	0		
Tin	2010	50.0	2000	0	101	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1974	50.0	2000	0	98.7	90	110	0	0		
Zinc	2035	20.0	2000	0	102	90	110	0	0		

CCV	SeqNo: 2236344	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCV	SeqNo: 2236344	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1986	200	2000	0	99.3	90	110	0	0		
Antimony	2036	60.0	2000	0	102	90	110	0	0		
Arsenic	2007	10.0	2000	0	100	90	110	0	0		
Barium	2011	200	2000	0	101	90	110	0	0		
Beryllium	1975	5.00	2000	0	98.7	90	110	0	0		
Boron	2056	50.0	2000	0	103	90	110	0	0		
Cadmium	2004	5.00	2000	0	100	90	110	0	0		
Calcium	2025	5000	2000	0	101	90	110	0	0		
Chromium	1977	10.0	2000	0	98.8	90	110	0	0		
Cobalt	1955	50.0	2000	0	97.8	90	110	0	0		
Copper	2042	25.0	2000	0	102	90	110	0	0		
Iron	2001	100	2000	0	100	90	110	0	0		
Lead	2018	3.00	2000	0	101	90	110	0	0		
Lithium	1959	50.0	2000	0	98	90	110	0	0		
Magnesium	1977	5000	2000	0	98.9	90	110	0	0		
Manganese	1951	15.0	2000	0	97.5	90	110	0	0		
Molybdenum	2027	50.0	2000	0	101	90	110	0	0		
Nickel	2067	40.0	2000	0	103	90	110	0	0		
Potassium	9519	5000	10000	0	95.2	90	110	0	0		
Selenium	1986	5.00	2000	0	99.3	90	110	0	0		
Silver	506.3	10.0	500	0	101	90	110	0	0		
Sodium	2086	5000	2000	0	104	90	110	0	0		
Strontium	1988	5.00	2000	0	99.4	90	110	0	0		
Thallium	1976	10.0	2000	0	98.8	90	110	0	0		
Tin	2018	50.0	2000	0	101	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1985	50.0	2000	0	99.2	90	110	0	0		
Zinc	2040	20.0	2000	0	102	90	110	0	0		

CCV	SeqNo: 2236348	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-3	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

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CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCV	SeqNo: 2236348	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-3	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	1960	200	2000	0	98	90	110	0	0		
Antimony	2015	60.0	2000	0	101	90	110	0	0		
Arsenic	1979	10.0	2000	0	99	90	110	0	0		
Barium	2016	200	2000	0	101	90	110	0	0		
Beryllium	1958	5.00	2000	0	97.9	90	110	0	0		
Boron	2038	50.0	2000	0	102	90	110	0	0		
Cadmium	1979	5.00	2000	0	99	90	110	0	0		
Calcium	1997	5000	2000	0	99.8	90	110	0	0		
Chromium	1981	10.0	2000	0	99	90	110	0	0		
Cobalt	1926	50.0	2000	0	96.3	90	110	0	0		
Copper	2055	25.0	2000	0	103	90	110	0	0		
Iron	1982	100	2000	0	99.1	90	110	0	0		
Lead	1977	3.00	2000	0	98.9	90	110	0	0		
Lithium	1964	50.0	2000	0	98.2	90	110	0	0		
Magnesium	1983	5000	2000	0	99.1	90	110	0	0		
Manganese	1929	15.0	2000	0	96.4	90	110	0	0		
Molybdenum	1997	50.0	2000	0	99.9	90	110	0	0		
Nickel	2037	40.0	2000	0	102	90	110	0	0		
Potassium	9464	5000	10000	0	94.6	90	110	0	0		
Selenium	1956	5.00	2000	0	97.8	90	110	0	0		
Silver	506.8	10.0	500	0	101	90	110	0	0		
Sodium	1936	5000	2000	0	96.8	90	110	0	0		
Strontium	1975	5.00	2000	0	98.8	90	110	0	0		
Thallium	1947	10.0	2000	0	97.4	90	110	0	0		
Tin	1977	50.0	2000	0	98.9	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1985	50.0	2000	0	99.3	90	110	0	0		
Zinc	2015	20.0	2000	0	101	90	110	0	0		

CCV	SeqNo: 2236360	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-4	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCV	SeqNo: 2236360	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-4	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2011	200	2000	0	101	90	110	0	0		
Antimony	2007	60.0	2000	0	100	90	110	0	0		
Arsenic	1974	10.0	2000	0	98.7	90	110	0	0		
Barium	2036	200	2000	0	102	90	110	0	0		
Beryllium	1974	5.00	2000	0	98.7	90	110	0	0		
Boron	2039	50.0	2000	0	102	90	110	0	0		
Cadmium	1976	5.00	2000	0	98.8	90	110	0	0		
Calcium	2022	5000	2000	0	101	90	110	0	0		
Chromium	2006	10.0	2000	0	100	90	110	0	0		
Cobalt	1927	50.0	2000	0	96.4	90	110	0	0		
Copper	2063	25.0	2000	0	103	90	110	0	0		
Iron	1976	100	2000	0	98.8	90	110	0	0		
Lead	1980	3.00	2000	0	99	90	110	0	0		
Lithium	2000	50.0	2000	0	100	90	110	0	0		
Magnesium	1993	5000	2000	0	99.6	90	110	0	0		
Manganese	1919	15.0	2000	0	96	90	110	0	0		
Molybdenum	2004	50.0	2000	0	100	90	110	0	0		
Nickel	2036	40.0	2000	0	102	90	110	0	0		
Potassium	9614	5000	10000	0	96.1	90	110	0	0		
Selenium	1946	5.00	2000	0	97.3	90	110	0	0		
Silver	511.4	10.0	500	0	102	90	110	0	0		
Sodium	1962	5000	2000	0	98.1	90	110	0	0		
Strontium	1983	5.00	2000	0	99.1	90	110	0	0		
Thallium	1936	10.0	2000	0	96.8	90	110	0	0		
Tin	1971	50.0	2000	0	98.6	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1996	50.0	2000	0	99.8	90	110	0	0		
Zinc	2022	20.0	2000	0	101	90	110	0	0		

CCV	SeqNo: 2236367	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-5	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CCV	SeqNo: 2236367	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CCV-5	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aluminum	2014	200	2000	0	101	90	110	0	0		
Antimony	2010	60.0	2000	0	100	90	110	0	0		
Arsenic	1978	10.0	2000	0	98.9	90	110	0	0		
Barium	2029	200	2000	0	101	90	110	0	0		
Beryllium	1975	5.00	2000	0	98.7	90	110	0	0		
Boron	2041	50.0	2000	0	102	90	110	0	0		
Cadmium	1979	5.00	2000	0	98.9	90	110	0	0		
Calcium	2035	5000	2000	0	102	90	110	0	0		
Chromium	1997	10.0	2000	0	99.9	90	110	0	0		
Cobalt	1938	50.0	2000	0	96.9	90	110	0	0		
Copper	2047	25.0	2000	0	102	90	110	0	0		
Iron	1982	100	2000	0	99.1	90	110	0	0		
Lead	1995	3.00	2000	0	99.8	90	110	0	0		
Lithium	2008	50.0	2000	0	100	90	110	0	0		
Magnesium	1987	5000	2000	0	99.4	90	110	0	0		
Manganese	1917	15.0	2000	0	95.8	90	110	0	0		
Molybdenum	2009	50.0	2000	0	100	90	110	0	0		
Nickel	2041	40.0	2000	0	102	90	110	0	0		
Potassium	9617	5000	10000	0	96.2	90	110	0	0		
Selenium	1957	5.00	2000	0	97.9	90	110	0	0		
Silver	510.9	10.0	500	0	102	90	110	0	0		
Sodium	1983	5000	2000	0	99.2	90	110	0	0		
Strontium	1979	5.00	2000	0	99	90	110	0	0		
Thallium	1942	10.0	2000	0	97.1	90	110	0	0		
Tin	1986	50.0	2000	0	99.3	90	110	0	0		
Titanium	ND	50.0	0	0	0	90	110	0	0		
Vanadium	1988	50.0	2000	0	99.4	90	110	0	0		
Zinc	2032	20.0	2000	0	102	90	110	0	0		

CRI	SeqNo: 2236254	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CRI-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
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Qualifiers:

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S - Spike Recovery outside accepted recovery limits
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CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

CRI	SeqNo: 2236254	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CRI-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.896	3.00	6	0	81.6	50	150	0	0		

CRI	SeqNo: 2236364	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: CRI-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.106	3.00	6	0	102	50	150	0	0		

ICSA	SeqNo: 2236256	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: ICSA-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	3.00	0	0	0	80	120	0	0		

ICSA	SeqNo: 2236365	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: ICSA-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	3.00	0	0	0	80	120	0	0		

ICSAB	SeqNo: 2236257	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: ICSAB-1	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	866.8	3.00	1000	0	86.7	80	120	0	0		

ICSAB	SeqNo: 2236366	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: ICSAB-2	PrepRef:	Units: µg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	864.6	3.00	1000	0	86.5	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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CLIENT: Balchem Corporation
Work Order: 170801036
Project: Groundwater Monitoring

ANALYTICAL QC SUMMARY REPORT

BatchID: 56086

ICB	SeqNo: 2236252	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: ICB-1	PrepRef:	Units: mg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.00500	0	0	0	0	0	0	0		

ICV	SeqNo: 2236250	PrepDate:	TestNo: E200.7	RunNo: 150293
	Samp ID: ICV-1	PrepRef:	Units: mg/L	Analysis Date: 8/15/2017

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.04	0.00500	2	0	102	95	105	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Test Code: CLPW

Test Number: E200.7

Test Name: ICP Metals Water

Matrix: Water Units: µg/L

**METHOD DETECTION /
REPORTING LIMITS**

Updated: 15-Nov-16

Type	Analyte	MDL	PQL
A	Aluminum	16.6	200
A	Antimony	2.68	60
A	Arsenic	2.76	10
A	Barium	1.05	200
A	Beryllium	0.12	5
A	Boron	1.04	50
A	Cadmium	0.37	5
A	Calcium	5.69	5000
A	Chromium	6.87	10
A	Cobalt	0.37	50
A	Copper	1.74	25
A	Iron	1.72	100
A	Lead	2.39	3
A	Lithium	17.44	50
A	Magnesium	13.25	5000
A	Manganese	0.27	15
A	Molybdenum	0.23	50
A	Nickel	0.4	40
A	Potassium	7.32	5000
A	Selenium	3.4	5
A	Silver	3.89	10
A	Sodium	12.81	5000
A	Strontium	8.15	5
A	Thallium	3.51	10
A	Tin	0.6	50
A	Titanium	3.27	50
A	Vanadium	4.19	50
A	Zinc	0.29	20

Sample Report

Report Author

Printed: 8/16/2017 11:29 am

Ag - 1ppm

Acquire Date: 15-Aug-2017 9:58 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ag	32.320	Cts/S	.022	.06726

200.7-6

Acquire Date: 15-Aug-2017 10:13 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
As	18.369	Cts/S	.025	.13681
Cr	26.334	Cts/S	.135	.51088
Li	30.413	Cts/S	4.611	15.162
Se	16.155	Cts/S	.015	.08995
Si	44.529	Cts/S	.132	.29748
Sn	52.079	Cts/S	.139	.26642
V_	26.214	Cts/S	.107	.40896

200.7-1

Acquire Date: 15-Aug-2017 10:28 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1543.1	Cts/S	14.8	.95658
Al	101.22	Cts/S	1.05	1.0339
Ca	149.87	Cts/S	1.36	.90443
K_	431.73	Cts/S	3.09	.71468
Mg	77.254	Cts/S	.714	.92427
Na	3000.1	Cts/S	32.6	1.0854
Ni	707.31	Cts/S	3.95	.55847
Zn	1888.8	Cts/S	5.2	.27434

200.7-2

Acquire Date: 15-Aug-2017 10:32 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	1060.5	Cts/S	2.9	.27315
Be	1417.8	Cts/S	.7	.05094
Co	470.63	Cts/S	1.36	.28803
Cu	43.725	Cts/S	.225	.51474
Fe	4354.7	Cts/S	13.0	.29837

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

200.7-2

Acquire Date: 15-Aug-2017 10:32 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mn	1399.0	Cts/S	5.0	.35385
Sr	167.48	Cts/S	.64	.38163

200.7-4

Acquire Date: 15-Aug-2017 11:27 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mo	866.44	Cts/S	.87	.09995
Sb	160.20	Cts/S	.02	.01298
Ti	651.97	Cts/S	1.44	.22033

200.7-3

Acquire Date: 15-Aug-2017 11:52 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
B_	20.981	Cts/S	.173	.82328
Cd	155.03	Cts/S	.80	.51813
Pb	24.854	Cts/S	.166	.66810
TI	8.4203	Cts/S	.0525	.62292

Blank

Acquire Date: 15-Aug-2017 11:57 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	-2.7645	Cts/S	.0607	2.1973
Ag	-.26494	Cts/S	.00980	3.6997
Al	.01630	Cts/S	.03776	231.69
As	.04598	Cts/S	.01156	25.137
Au	.38575	Cts/S	.00605	1.5685
B_	.39253	Cts/S	.01565	3.9871
Ba	12.179	Cts/S	.242	1.9834
Be	5.7454	Cts/S	.0273	.47560
Ca	.02081	Cts/S	.04120	197.99
Cd	.30643	Cts/S	.04054	13.230
Co	.10276	Cts/S	.02137	20.795
Cr	-.33335	Cts/S	.03891	11.673
Cu	1.1971	Cts/S	.0255	2.1327
Fe	1.5603	Cts/S	.0801	5.1313
K_	.95295	Cts/S	.10007	10.501

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Blank

Acquire Date: 15-Aug-2017 11:57 am

Sample Type: Calib. Std.

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Li	-106.32	Cts/S	2.92	2.7452
Mg	-.09849	Cts/S	.02550	25.896
Mn	.96250	Cts/S	.19755	20.525
Mo	.03580	Cts/S	.01658	46.314
Na	-68.754	Cts/S	17.537	25.507
Ni	.10153	Cts/S	.01526	15.030
Pb	.02068	Cts/S	.00131	6.3169
Pd	-.16229	Cts/S	.06081	37.468
Sb	.04228	Cts/S	.00044	1.0477
Se	.02824	Cts/S	.00392	13.895
Si	.56039	Cts/S	.03140	5.6033
Sn	-.00062	Cts/S	.00175	282.89
Sr	.36203	Cts/S	.19027	52.557
Ti	-.02081	Cts/S	.08827	424.28
Tl	-.01440	Cts/S	.00174	12.107
V_	.00312	Cts/S	.00736	235.70
Zn	.38081	Cts/S	.03136	8.2361
Zr	-.87666	Cts/S	.08633	9.8482

ICV-1

Acquire Date: 15-Aug-2017 12:00 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1937.3	ppb	10.8	.55609
Ag	511.18	ppb	2.61	.51040
Al	2065.4	ppb	3.9	.18706
As	2017.5	ppb	2.8	.14030
Au	21.571	ppb	1.060	4.9151
B_	2084.9	ppb	1.9	.09203
Ba	2033.0	ppb	15.4	.75942
Be	1995.9	ppb	18.5	.92502
Ca	2035.7	ppb	22.3	1.0973
Cd	2020.7	ppb	3.7	.18316
Co	1974.4	ppb	5.4	.27126
Cr	2002.7	ppb	22.9	1.1454
Cu	2058.8	ppb	12.7	.61576
Fe	2015.5	ppb	7.1	.35218
K_	9643.9	ppb	8.4	.08696
Li	2016.1	ppb	70.5	3.4949
Mg	2011.0	ppb	34.3	1.7065

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

ICV-1

Acquire Date: 15-Aug-2017 12:00 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mn	1961.5	ppb	2.8	.14257
Mo	2041.0	ppb	1.7	.08438
Na	2093.5	ppb	14.4	.68817
Ni	2079.3	ppb	1.5	.07020
Pb	2039.9	ppb	4.5	.22235
Pd	<.00000	ppb	3.531	16.874
Sb	2045.2	ppb	.7	.03520
Se	1993.3	ppb	2.5	.12294
Si	4849.1	ppb	56.4	1.1635
Sn	2032.6	ppb	5.3	.26223
Sr	2018.3	ppb	13.2	.65551
Ti	<.00000	ppb	2.0161	52.644
Tl	1998.0	ppb	8.9	.44460
V_	1999.1	ppb	16.1	.80338
Zn	2053.1	ppb	3.1	.15315
Zr	<.00000	ppb	.82922	282.59

ICB-1

Acquire Date: 15-Aug-2017 12:13 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	3.0323	ppb	.7230	23.842
Ag	.85113	ppb	.66206	77.786
Al	.03435	ppb	6.00913	17,494
As	<.00000	ppb	2.5789	53.939
Au	<.00000	ppb	.66257	206.51
B_	<.00000	ppb	.2503	21.246
Ba	<.00000	ppb	.36043	67.194
Be	<.00000	ppb	.02926	4.7664
Ca	4.9988	ppb	3.0112	60.237
Cd	<.00000	ppb	.01412	2.0253
Co	<.00000	ppb	.13914	29.465
Cr	1.9965	ppb	6.3564	318.38
Cu	<.00000	ppb	.27746	40.559
Fe	<.00000	ppb	.01743	3.6352
K_	<.00000	ppb	11.2032	682.54
Li	<.00000	ppb	44.905	378.76
Mg	8.2487	ppb	7.3548	89.163
Mn	<.00000	ppb	.03997	9.1231
Mo	<.00000	ppb	.15112	34.779

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

ICB-1

Acquire Date: 15-Aug-2017 12:13 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Na	<.00000	ppb	7.198	15.311
Ni	<.00000	ppb	.01232	1.7932
Pb	<.00000	ppb	.4568	43.235
Pd	7.8054	ppb	8.8332	113.17
Sb	<.00000	ppb	.02724	4.1588
Se	.49783	ppb	.62228	125.00
Si	<.00000	ppb	11.5974	614.00
Sn	.24889	ppb	.38551	154.89
Sr	<.00000	ppb	2.817	25.141
Ti	.65952	ppb	.66194	100.37
Tl	<.00000	ppb	.1378	4.9549
V_	.44990	ppb	4.64006	1,031.3
Zn	<.00000	ppb	.09857	33.199
Zr	<.00000	ppb	.51825	141.33

CRI-1

Acquire Date: 15-Aug-2017 12:17 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	<.00000	ppb	2.8681	47.626
Ag	20.008	ppb	.301	1.5042
Al	<.00000	ppb	7.2207	181.66
As	18.719	ppb	1.068	5.7047
Au	1.1518	ppb	.1343	11.657
B_	<.00000	ppb	.1488	9.9075
Ba	<.00000	ppb	.41305	133.14
Be	9.0783	ppb	.0680	.74920
Ca	1.8515	ppb	.1309	7.0717
Cd	8.9725	ppb	.0977	1.0886
Co	95.762	ppb	1.497	1.5637
Cr	22.568	ppb	5.523	24.473
Cu	48.244	ppb	.646	1.3392
Fe	<.00000	ppb	.09751	12.083
K_	<.00000	ppb	.4098	31.841
Li	<.00000	ppb	48.039	227.43
Mg	15.601	ppb	3.551	22.758
Mn	28.010	ppb	.533	1.9017
Mo	<.00000	ppb	.13605	20.210
Na	<.00000	ppb	4.127	5.5957
Ni	81.431	ppb	1.610	1.9769

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

CRI-1

Acquire Date: 15-Aug-2017 12:17 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Pb	4.8959	ppb	.6160	12.582
Pd	24.356	ppb	13.691	56.211
Sb	117.80	ppb	1.36	1.1515
Se	8.1136	ppb	1.2740	15.702
Si	<.00000	ppb	15.170	141.51
Sn	<.00000	ppb	.28477	34.825
Sr	<.00000	ppb	2.1129	87.822
Ti	<.00000	ppb	.1504	14.141
Tl	18.261	ppb	.963	5.2730
V_	98.757	ppb	3.106	3.1452
Zn	40.520	ppb	.607	1.4979
Zr	<.00000	ppb	.79415	216.38

ICSA-1

Acquire Date: 15-Aug-2017 12:21 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	7.8421	ppb	1.0535	13.434
Ag	<.00000	ppb	2.347	4.7935
Al	499200.	ppb	982	.19678
As	<.00000	ppb	1.0	.07720
Au	159.32	ppb	1.30	.81622
B_	<.00000	ppb	.17	.11827
Ba	<.00000	ppb	.18253	22.798
Be	1.3822	ppb	.0071	.51111
Ca	428870.	ppb	1,839	.42871
Cd	<.00000	ppb	.0311	1.2790
Co	.36470	ppb	.01673	4.5865
Cr	<.00000	ppb	9.29415	1,857.7
Cu	<.00000	ppb	.013	.04719
Fe	127050.	ppb	282	.22233
K_	<.00000	ppb	1.6390	43.509
Li	<.00000	ppb	150.8	6.1444
Mg	512160.	ppb	713	.13923
Mn	<.00000	ppb	.0294	.38123
Mo	<.00000	ppb	.0757	1.6094
Na	53.082	ppb	134.991	254.31
Ni	<.00000	ppb	.146	.69018
Pb	<.00000	ppb	.254	.29591
Pd	<.00000	ppb	7.0669	150.83

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

ICSA-1

Acquire Date: 15-Aug-2017 12:21 pm

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sb	<.00000	ppb	.2332	2.7807
Se	<.00000	ppb	1.112	1.9765
Si	3.4731	ppb	9.3666	269.69
Sn	<.00000	ppb	.06706	17.681
Sr	10.625	ppb	3.638	34.242
Ti	<.00000	ppb	.151	.92054
Tl	<.00000	ppb	.6205	7.6936
V_	<.00000	ppb	2.266	8.5201
Zn	<.00000	ppb	.139	.70555
Zr	<.00000	ppb	1.0352	15.476

ICSAB-1

Acquire Date: 15-Aug-2017 12:24 pm

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	8.7481	ppb	1.0407	11.896
Ag	1048.2	ppb	3.1	.29945
Al	504970.	ppb	822	.16276
As	<.00000	ppb	3.4	.26767
Au	167.42	ppb	.64	.38420
B_	<.00000	ppb	.03	.01781
Ba	503.54	ppb	1.56	.30994
Be	493.95	ppb	.64	.13052
Ca	434510.	ppb	497	.11446
Cd	901.83	ppb	1.23	.13661
Co	450.26	ppb	1.13	.25126
Cr	595.55	ppb	2.67	.44823
Cu	533.54	ppb	1.68	.31480
Fe	128050.	ppb	274	.21364
K_	<.00000	ppb	3.9166	71.984
Li	<.00000	ppb	86.1	3.4446
Mg	520170.	ppb	2,915	.56047
Mn	413.37	ppb	.82	.19892
Mo	<.00000	ppb	.1662	4.5885
Na	51.363	ppb	148.125	288.39
Ni	1026.9	ppb	2.5	.24687
Pb	866.78	ppb	.50	.05822
Pd	<.00000	ppb	7.950	23.354
Sb	<.00000	ppb	.39858	98.774
Se	<.00000	ppb	3.139	5.4832

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

ICSAB-1

Acquire Date: 15-Aug-2017 12:24 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Si	<.00000	ppb	5.355	15.157
Sn	<.00000	ppb	.80436	178.64
Sr	5.4799	ppb	5.5176	100.69
Ti	<.00000	ppb	1.174	6.0352
Tl	<.00000	ppb	2.253	14.244
V_	463.28	ppb	5.72	1.2344
Zn	887.26	ppb	.32	.03620
Zr	<.00000	ppb	.1728	2.2905

CCV-1

Acquire Date: 15-Aug-2017 12:32 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1907.6	ppb	10.1	.52867
Ag	503.34	ppb	1.93	.38406
Al	2121.5	ppb	16.8	.79322
As	2001.7	ppb	3.2	.16005
Au	20.822	ppb	.112	.53788
B_	2069.2	ppb	6.6	.31917
Ba	2001.3	ppb	14.2	.71062
Be	1964.2	ppb	10.1	.51370
Ca	1990.4	ppb	10.5	.52850
Cd	2002.5	ppb	6.6	.33118
Co	1953.6	ppb	3.8	.19649
Cr	1977.7	ppb	18.9	.95457
Cu	2029.5	ppb	10.6	.52463
Fe	2076.5	ppb	14.9	.71806
K_	9497.8	ppb	43.5	.45779
Li	1971.9	ppb	46.5	2.3579
Mg	2159.8	ppb	2.5	.11643
Mn	1945.8	ppb	6.5	.33411
Mo	2021.4	ppb	2.5	.12199
Na	2043.1	ppb	13.5	.66072
Ni	2063.7	ppb	5.4	.26361
Pb	2019.1	ppb	4.7	.23179
Pd	<.00000	ppb	18.983	69.080
Sb	2029.0	ppb	.5	.02438
Se	1977.6	ppb	5.8	.29566
Si	4785.9	ppb	34.4	.71960
Sn	2010.1	ppb	4.9	.24235

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

CCV-1

Acquire Date: 15-Aug-2017 12:32 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sr	1986.8	ppb	16.5	.83218
Ti	<.00000	ppb	1.2031	38.471
Tl	1971.6	ppb	7.1	.35778
V_	1973.9	ppb	6.2	.31609
Zn	2035.3	ppb	4.5	.22183
Zr	<.00000	ppb	.99946	177.99

CCB-1

Acquire Date: 15-Aug-2017 12:54 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	<.00000	ppb	1.38393	200.20
Ag	<.00000	ppb	2.46759	527.15
Al	<.00000	ppb	1.7388	141.44
As	.04617	ppb	.46611	1,009.6
Au	<.00000	ppb	.56895	85.000
B_	<.00000	ppb	.13470	27.135
Ba	.18786	ppb	.27929	148.67
Be	.12858	ppb	.15686	122.00
Ca	2.4076	ppb	1.7025	70.712
Cd	<.00000	ppb	.04223	117.82
Co	<.00000	ppb	.16508	256.86
Cr	.35155	ppb	2.86396	814.66
Cu	1.2052	ppb	1.5202	126.14
Fe	<.00000	ppb	.13029	18.373
K_	3.9288	ppb	9.0631	230.68
Li	<.00000	ppb	47.9183	3,961.3
Mg	<.00000	ppb	10.9276	168.92
Mn	<.00000	ppb	.00126	3.3829
Mo	<.00000	ppb	.30728	663.40
Na	<.00000	ppb	2.903	28.880
Ni	<.00000	ppb	.21598	94.285
Pb	.02505	ppb	.08799	351.23
Pd	<.00000	ppb	11.968	55.338
Sb	.19271	ppb	.49021	254.38
Se	.90843	ppb	.37831	41.645
Si	<.00000	ppb	3.573	21.757
Sn	<.00000	ppb	.13403	161.59
Sr	<.00000	ppb	.0000	.00002
Ti	<.00000	ppb	.57170	537.39

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

CCB-1

Acquire Date: 15-Aug-2017 12:54 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Tl	1.1841	ppb	.2980	25.163
V_	2.4813	ppb	7.8767	317.44
Zn	<.00000	ppb	.02020	33.181
Zr	<.00000	ppb	.6562	29.207

CCV-2

Acquire Date: 15-Aug-2017 2:07 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1909.8	ppb	7.2	.37670
Ag	506.29	ppb	1.40	.27697
Al	1985.7	ppb	10.1	.50926
As	2007.3	ppb	.6	.02782
Au	21.610	ppb	1.326	6.1338
B_	2056.5	ppb	1.7	.08164
Ba	2010.7	ppb	2.7	.13391
Be	1974.9	ppb	2.1	.10529
Ca	2024.7	ppb	12.7	.62862
Cd	2004.1	ppb	2.9	.14403
Co	1955.3	ppb	3.3	.16848
Cr	1976.6	ppb	9.9	.50017
Cu	2041.7	ppb	4.6	.22573
Fe	2001.2	ppb	2.5	.12657
K_	9519.4	ppb	44.2	.46445
Li	1959.1	ppb	33.8	1.7241
Mg	1977.1	ppb	13.8	.69609
Mn	1950.8	ppb	1.9	.09715
Mo	2027.1	ppb	3.4	.16633
Na	2085.9	ppb	12.0	.57666
Ni	2066.6	ppb	2.6	.12779
Pb	2018.3	ppb	3.2	.15814
Pd	<.00000	ppb	6.289	7.4923
Sb	2035.5	ppb	2.5	.12176
Se	1985.5	ppb	.8	.03877
Si	4797.0	ppb	5.6	.11717
Sn	2018.0	ppb	4.2	.20836
Sr	1988.2	ppb	1.9	.09797
Ti	<.00000	ppb	.1249	2.8799
Tl	1976.0	ppb	1.0	.04996
V_	1984.6	ppb	5.1	.25619

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

CCV-2

Acquire Date: 15-Aug-2017 2:07 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Zn	2040.2	ppb	3.9	.19033
Zr	<.00000	ppb	2.8485	210.37

CCB-2

Acquire Date: 15-Aug-2017 2:14 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	<.00000	ppb	.41927	74.182
Ag	.68119	ppb	.36093	52.986
Al	<.00000	ppb	10.723	64.823
As	<.00000	ppb	.76148	144.57
Au	<.00000	ppb	.24620	26.671
B_	.38380	ppb	.28591	74.495
Ba	<.00000	ppb	.32056	115.92
Be	.10885	ppb	.01257	11.547
Ca	<.00000	ppb	.39296	53.033
Cd	.12849	ppb	.10844	84.396
Co	.18622	ppb	.15951	85.656
Cr	1.4878	ppb	8.1148	545.40
Cu	<.00000	ppb	1.84325	262,570
Fe	<.00000	ppb	.24601	56.072
K_	<.00000	ppb	.04504	5,896.9
Li	3.7241	ppb	40.6801	1,092.3
Mg	<.00000	ppb	9.9107	183.83
Mn	.07990	ppb	.17194	215.20
Mo	.21726	ppb	.27706	127.52
Na	7.8718	ppb	13.9232	176.87
Ni	<.00000	ppb	.08327	119.36
Pb	<.00000	ppb	.01784	5.9921
Pd	<.00000	ppb	5.3187	84.849
Sb	<.00000	ppb	.40862	303.97
Se	.94701	ppb	.02706	2.8577
Si	<.00000	ppb	14.293	80.807
Sn	.73475	ppb	.11732	15.968
Sr	<.00000	ppb	3.9272	278.61
Ti	.08511	ppb	.60177	707.05
Tl	1.0865	ppb	1.4455	133.04
V_	7.3126	ppb	.9712	13.282
Zn	.07486	ppb	.19359	258.61
Zr	<.00000	ppb	.9321	56.147

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

CCV-3

Acquire Date: 15-Aug-2017 3:34 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2062.6	ppb	26.6	1.2888
Ag	506.85	ppb	1.29	.25491
Al	1960.2	ppb	1.6	.08238
As	1979.4	ppb	.3	.01591
Au	21.276	ppb	.057	.26776
B_	2038.0	ppb	3.4	.16906
Ba	2015.6	ppb	1.9	.09565
Be	1958.1	ppb	4.8	.24438
Ca	1997.0	ppb	3.7	.18373
Cd	1979.4	ppb	2.9	.14513
Co	1925.9	ppb	2.5	.12813
Cr	1980.9	ppb	10.9	.54923
Cu	2054.9	ppb	3.5	.16832
Fe	1981.6	ppb	2.3	.11656
K_	9463.7	ppb	13.4	.14127
Li	1963.8	ppb	46.8	2.3831
Mg	1982.9	ppb	26.8	1.3520
Mn	1928.9	ppb	5.0	.26070
Mo	1997.4	ppb	2.4	.11992
Na	1936.2	ppb	23.7	1.2237
Ni	2036.9	ppb	1.2	.05744
Pb	1977.4	ppb	.7	.03410
Pd	<.00000	ppb	11.085	18.713
Sb	2014.6	ppb	3.0	.14822
Se	1956.5	ppb	2.1	.10488
Si	4815.1	ppb	.3	.00661
Sn	1977.2	ppb	3.3	.16895
Sr	1975.4	ppb	.3	.01387
Ti	<.00000	ppb	.3011	8.7363
Tl	1947.4	ppb	3.8	.19265
V_	1985.2	ppb	8.8	.44486
Zn	2015.1	ppb	2.6	.13058
Zr	<.00000	ppb	1.0371	74.515

CCB-3

Acquire Date: 15-Aug-2017 3:38 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
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Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 8/16/2017 11:29 am

CCB-3

Acquire Date: 15-Aug-2017 3:38 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	44.317	ppb	7.540	17.013
Ag	.42547	ppb	.36116	84.885
Al	6.6936	ppb	16.4219	245.34
As	.57957	ppb	.77784	134.21
Au	<.00000	ppb	.51135	55.303
B_	1.7834	ppb	.7777	43.608
Ba	.51040	ppb	.01517	2.9724
Be	.21502	ppb	.09580	44.555
Ca	6.6675	ppb	1.4405	21.605
Cd	.05972	ppb	.10701	179.18
Co	.04722	ppb	.05192	109.97
Cr	<.00000	ppb	.3785	4.9807
Cu	<.00000	ppb	1.9850	126.53
Fe	<.00000	ppb	.14221	33.768
K_	<.00000	ppb	5.231	21.106
Li	<.00000	ppb	44.733	49.437
Mg	<.00000	ppb	2.033	7.9121
Mn	.00771	ppb	.01497	194.27
Mo	.69804	ppb	.67489	96.683
Na	30.735	ppb	57.435	186.87
Ni	<.00000	ppb	.00006	.04442
Pb	<.00000	ppb	.35087	963.07
Pd	<.00000	ppb	15.071	96.165
Sb	<.00000	ppb	.79031	132.27
Se	<.00000	ppb	1.18985	253.90
Si	<.00000	ppb	11.612	114.93
Sn	.58061	ppb	.26811	46.177
Sr	<.00000	ppb	.52762	1,277.2
Ti	.78724	ppb	1.29387	164.36
Tl	1.1682	ppb	1.6976	145.32
V_	1.0290	ppb	2.9874	290.33
Zn	<.00000	ppb	.01501	41.220
Zr	<.00000	ppb	1.5197	76.817

MB-56086

Acquire Date: 15-Aug-2017 3:45 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	184.27	ppb	39.12	21.232
Ag	<.00000	ppb	5.5374	224.33

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

MB-56086

Acquire Date: 15-Aug-2017 3:45 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Al	<.00000	ppb	3.86494	707.19
As	<.00000	ppb	.37249	57.826
Au	<.00000	ppb	.03817	4.5957
B_	<.00000	ppb	.21448	76.732
Ba	1.1591	ppb	.3105	26.791
Be	.12761	ppb	.01655	12.972
Ca	1.2040	ppb	10.7389	891.94
Cd	<.00000	ppb	.00844	84.723
Co	.01574	ppb	.01855	117.83
Cr	<.00000	ppb	.74516	118.73
Cu	<.00000	ppb	1.6632	50.018
Fe	<.00000	ppb	.03163	4.9614
K_	8.0189	ppb	2.4603	30.681
Li	38.374	ppb	43.050	112.18
Mg	<.00000	ppb	4.828	47.982
Mn	.00021	ppb	.02745	12,824
Mo	.04987	ppb	.05037	101.01
Na	146.04	ppb	26.67	18.264
Ni	<.00000	ppb	.00927	9.2413
Pb	<.00000	ppb	.64916	261.96
Pd	<.00000	ppb	4.877	12.650
Sb	.40451	ppb	.35426	87.578
Se	.48751	ppb	2.21742	454.84
Si	<.00000	ppb	4.4620	47.100
Sn	<.00000	ppb	.05026	30.298
Sr	<.00000	ppb	3.1361	43.862
Ti	.65957	ppb	.39118	59.308
Tl	.50301	ppb	.16045	31.898
V_	6.1744	ppb	4.6835	75.853
Zn	<.00000	ppb	.04298	80.471
Zr	<.00000	ppb	1.24377	175.61

LCS-56086

Acquire Date: 15-Aug-2017 3:49 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2226.2	ppb	55.3	2.4860
Ag	507.53	ppb	2.43	.47799
Al	2029.8	ppb	5.2	.25831
As	1921.7	ppb	5.6	.29327

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

LCS-56086

Acquire Date: 15-Aug-2017 3:49 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Au	19.963	ppb	.777	3.8920
B_	1984.3	ppb	2.5	.12575
Ba	2012.7	ppb	1.2	.05795
Be	1985.1	ppb	4.7	.23695
Ca	2116.5	ppb	4.9	.23298
Cd	1912.3	ppb	2.4	.12476
Co	1882.4	ppb	3.6	.19222
Cr	2008.0	ppb	7.8	.39013
Cu	2112.3	ppb	6.3	.29906
Fe	1971.4	ppb	5.1	.26030
K_	9358.1	ppb	41.3	.44119
Li	2012.2	ppb	56.6	2.8108
Mg	1951.6	ppb	4.5	.22966
Mn	1924.1	ppb	3.2	.16866
Mo	2040.3	ppb	5.0	.24314
Na	2088.1	ppb	53.9	2.5823
Ni	2005.2	ppb	4.3	.21227
Pb	1945.6	ppb	6.0	.31047
Pd	<.00000	ppb	4.881	7.1771
Sb	1937.5	ppb	3.6	.18346
Se	1876.3	ppb	6.4	.34218
Si	9809.8	ppb	54.5	.55604
Sn	1947.8	ppb	7.5	.38401
Sr	1976.4	ppb	3.4	.17406
Ti	<.00000	ppb	.7824	39.125
Tl	1826.8	ppb	9.1	.50056
V_	1985.1	ppb	5.9	.29632
Zn	1936.3	ppb	4.0	.20449
Zr	.05046	ppb	.79313	1,571.9

170801036-001B

Acquire Date: 15-Aug-2017 3:52 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	43522.	ppb	241	.55278
Ag	.42554	ppb	2.52773	594.00
Al	<.00000	ppb	17.58	8.8928
As	6.3817	ppb	2.0366	31.913
Au	<.00000	ppb	.64392	65.032
B_	89.895	ppb	1.210	1.3460

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

170801036-001B

Acquire Date: 15-Aug-2017 3:52 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ba	37.066	ppb	.033	.08946
Be	.24837	ppb	.00969	3.8999
Ca	57038.	ppb	249	.43615
Cd	<.00000	ppb	.08450	249.74
Co	.46688	ppb	.05935	12.712
Cr	<.00000	ppb	15.3618	555.50
Cu	<.00000	ppb	1.24316	253.96
Fe	123.35	ppb	.25	.20310
K_	4076.9	ppb	49.5	1.2134
Li	<.00000	ppb	48.07	10.822
Mg	7363.0	ppb	49.5	.67216
Mn	82.918	ppb	.115	.13913
Mo	<.00000	ppb	.34759	1,083.6
Na	41937.	ppb	70	.16719
Ni	.44793	ppb	.03079	6.8737
Pb	.53192	ppb	.89375	168.02
Pd	<.00000	ppb	9.308	47.141
Sb	.52294	ppb	.89952	172.01
Se	.50709	ppb	.51387	101.34
Si	5408.6	ppb	29.0	.53581
Sn	.07108	ppb	.28492	400.84
Sr	289.07	ppb	7.27	2.5136
Ti	<.00000	ppb	.6318	15.548
Tl	6.2134	ppb	1.1702	18.833
V_	5.2117	ppb	3.5827	68.742
Zn	2.8435	ppb	.0819	2.8800
Zr	<.00000	ppb	1.3471	98.492

170801036-002B

Acquire Date: 15-Aug-2017 3:56 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	88872.	ppb	698	.78508
Ag	<.00000	ppb	2.2872	116.82
Al	<.00000	ppb	1.55	.99308
As	<.00000	ppb	.949	3.4573
Au	127.02	ppb	1.70	1.3416
B_	71.095	ppb	.147	.20707
Ba	106.04	ppb	.04	.04197
Be	.21211	ppb	.04999	23.570

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

170801036-002B

Acquire Date: 15-Aug-2017 3:56 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ca	137930.	ppb	1,072	.77699
Cd	.08161	ppb	.06477	79.359
Co	1.2902	ppb	.0445	3.4494
Cr	<.00000	ppb	3.2428	32.428
Cu	.72761	ppb	2.58057	354.66
Fe	17916.	ppb	3	.01694
K_	8315.4	ppb	20.5	.24678
Li	<.00000	ppb	62.2	5.5466
Mg	13199.	ppb	83	.63100
Mn	11026.	ppb	7	.06520
Mo	3.4686	ppb	.1612	4.6461
Na	79445.	ppb	121	.15229
Ni	<.00000	ppb	.0617	4.0716
Pb	2.8588	ppb	.3659	12.799
Pd	<.00000	ppb	3.103	26.754
Sb	<.00000	ppb	.2997	13.305
Se	1.0418	ppb	1.1627	111.61
Si	7098.5	ppb	42.8	.60343
Sn	.16591	ppb	.35187	212.08
Sr	621.32	ppb	3.84	.61742
Ti	<.00000	ppb	1.3842	47.141
Tl	15.069	ppb	1.170	7.7635
V_	5.9220	ppb	1.5305	25.844
Zn	21.010	ppb	.032	.15198
Zr	<.00000	ppb	1.89950	431.77

170801036-003B

Acquire Date: 15-Aug-2017 4:02 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	49419.	ppb	10	.02051
Ag	<.00000	ppb	2.877	28.621
Al	<.00000	ppb	.96	.38624
As	<.00000	ppb	.94	.69813
Au	74.702	ppb	1.003	1.3432
B_	221.32	ppb	.12	.05533
Ba	176.35	ppb	.51	.28753
Be	.19017	ppb	.02803	14.739
Ca	198310.	ppb	619	.31228
Cd	<.00000	ppb	.00141	.54184

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

170801036-003B

Acquire Date: 15-Aug-2017 4:02 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Co	2.8295	ppb	.0593	2.0968
Cr	<.00000	ppb	6.3577	80.091
Cu	5.6772	ppb	4.9093	86.475
Fe	32707.	ppb	58	.17708
K_	12153.	ppb	33	.26872
Li	<.00000	ppb	15.0	.98878
Mg	15281.	ppb	55	.35819
Mn	3977.4	ppb	5.1	.12729
Mo	<.00000	ppb	.09065	16.748
Na	46854.	ppb	372	.79374
Ni	<.00000	ppb	.2252	5.9349
Pb	1.4404	ppb	.2031	14.099
Pd	<.00000	ppb	16.861	127.96
Sb	<.00000	ppb	.6538	47.233
Se	<.00000	ppb	3.258	27.890
Si	11378.	ppb	58	.51152
Sn	.11852	ppb	.31836	268.61
Sr	1372.5	ppb	10.4	.76116
Ti	<.00000	ppb	.0553	.83290
Tl	7.8835	ppb	.2753	3.4915
V_	6.8236	ppb	6.2357	91.384
Zn	8.3429	ppb	.0114	.13675
Zr	<.00000	ppb	2.4994	117.16

170801036-003BDP

Acquire Date: 15-Aug-2017 4:07 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	49723.	ppb	284	.57031
Ag	<.00000	ppb	.5423	5.7147
Al	<.00000	ppb	20.49	7.0354
As	<.00000	ppb	1.43	1.0968
Au	72.545	ppb	1.777	2.4502
B_	213.04	ppb	.24	.11164
Ba	174.22	ppb	1.14	.65665
Be	.10402	ppb	.14424	138.67
Ca	196500.	ppb	782	.39816
Cd	<.00000	ppb	.03379	10.160
Co	2.6354	ppb	.0891	3.3801
Cr	<.00000	ppb	5.4217	366.94

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

170801036-003BDP

Acquire Date: 15-Aug-2017 4:07 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Cu	1.3961	ppb	.6901	49.431
Fe	32128.	ppb	43	.13357
K_	11748.	ppb	19	.16368
Li	<.00000	ppb	88.3	6.2238
Mg	14886.	ppb	36	.23936
Mn	3977.4	ppb	2.4	.06088
Mo	<.00000	ppb	.10577	52.117
Na	47085.	ppb	85	.18054
Ni	<.00000	ppb	.0988	2.6224
Pb	1.4735	ppb	.5754	39.051
Pd	<.00000	ppb	.887	3.9321
Sb	<.00000	ppb	.7898	45.136
Se	<.00000	ppb	.5546	5.6207
Si	11228.	ppb	4	.03198
Sn	.00005	ppb	.31834	644,850
Sr	1341.7	ppb	5.5	.40793
Ti	<.00000	ppb	1.6853	24.002
Tl	11.841	ppb	2.248	18.982
V_	5.7188	ppb	.8598	15.035
Zn	3.6937	ppb	.0697	1.8861
Zr	<.00000	ppb	.0006	.03115

170801036-003BMS

Acquire Date: 15-Aug-2017 4:16 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	50241.	ppb	317	.63121
Ag	41.279	ppb	.000	.00035
Al	1768.9	ppb	7.9	.44735
As	<.00000	ppb	1.017	1.0690
Au	78.008	ppb	.376	.48258
B_	208.42	ppb	.33	.15869
Ba	2244.7	ppb	7.7	.34422
Be	53.593	ppb	.222	.41487
Ca	194250.	ppb	778	.40077
Cd	48.406	ppb	.082	.16843
Co	455.85	ppb	.86	.18956
Cr	220.25	ppb	.90	.40731
Cu	274.81	ppb	.83	.30139
Fe	32524.	ppb	30	.09171

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

170801036-003BMS

Acquire Date: 15-Aug-2017 4:16 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
K_	11336.	ppb	30	.26553
Li	<.00000	ppb	76.2	5.4777
Mg	14452.	ppb	58	.40133
Mn	4444.8	ppb	1.4	.03090
Mo	.24931	ppb	.20144	80.802
Na	47176.	ppb	225	.47627
Ni	474.46	ppb	.17	.03507
Pb	18.814	ppb	.366	1.9474
Pd	<.00000	ppb	1.330	3.5059
Sb	497.82	ppb	.78	.15604
Se	<.00000	ppb	.40565	222.94
Si	11145.	ppb	21	.19278
Sn	<.00000	ppb	.50267	849.07
Sr	1311.4	ppb	5.0	.38037
Ti	<.00000	ppb	1.7451	21.815
Tl	46.455	ppb	.182	.39262
V_	521.96	ppb	.15	.02808
Zn	509.56	ppb	.98	.19170
Zr	<.00000	ppb	.5872	21.097

170801036-003BA

Acquire Date: 15-Aug-2017 4:19 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	48792.	ppb	167	.34311
Ag	94.095	ppb	.424	.45046
Al	3955.8	ppb	7.4	.18661
As	<.00000	ppb	.668	1.0382
Au	83.116	ppb	2.032	2.4452
B_	217.49	ppb	.38	.17673
Ba	4306.0	ppb	19.5	.45274
Be	107.62	ppb	.75	.69849
Ca	195610.	ppb	995	.50846
Cd	98.555	ppb	.090	.09088
Co	918.03	ppb	.60	.06588
Cr	443.74	ppb	11.63	2.6209
Cu	563.18	ppb	2.73	.48559
Fe	33562.	ppb	33	.09966
K_	11884.	ppb	53	.44242
Li	<.00000	ppb	70.1	5.0846

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

170801036-003BA

Acquire Date: 15-Aug-2017 4:19 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mg	15027.	ppb	82	.54603
Mn	4774.3	ppb	5.3	.11175
Mo	1.2037	ppb	.0503	4.1785
Na	46091.	ppb	237	.51377
Ni	958.13	ppb	3.60	.37610
Pb	38.507	ppb	.108	.28101
Pd	<.00000	ppb	9.654	15.732
Sb	1001.9	ppb	.5	.04509
Se	13.643	ppb	1.513	11.092
Si	11349.	ppb	92	.80998
Sn	.13038	ppb	.43566	334.16
Sr	1347.9	ppb	3.3	.24471
Ti	<.00000	ppb	.2022	3.5898
Tl	77.164	ppb	2.175	2.8180
V_	1064.6	ppb	7.5	.70367
Zn	1021.2	ppb	.7	.07276
Zr	<.00000	ppb	2.6674	92.367

170801036-003BL

Acquire Date: 15-Aug-2017 4:23 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	8267.1	ppb	56.8	.68691
Ag	<.00000	ppb	2.64848	444.60
Al	<.00000	ppb	23.77	11.007
As	<.00000	ppb	1.259	4.8627
Au	15.853	ppb	.038	.23800
B_	45.933	ppb	.084	.18241
Ba	36.306	ppb	.173	.47640
Be	.10399	ppb	.03873	37.243
Ca	41650.	ppb	289	.69472
Cd	<.00000	ppb	.01267	6.2079
Co	.78671	ppb	.02967	3.7716
Cr	2.1553	ppb	9.1820	426.02
Cu	1.2115	ppb	2.5783	212.83
Fe	7444.3	ppb	42.0	.56466
K_	1825.9	ppb	7.9	.43066
Li	<.00000	ppb	60.11	20.042
Mg	2956.5	ppb	7.7	.26197
Mn	862.26	ppb	5.16	.59793

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

170801036-003BL

Acquire Date: 15-Aug-2017 4:23 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Mo	<.00000	ppb	.04029	9.5895
Na	8284.3	ppb	21.8	.26299
Ni	<.00000	ppb	.22510	40.053
Pb	.77853	ppb	.31170	40.037
Pd	<.00000	ppb	5.7619	108.14
Sb	<.00000	ppb	.21825	37.918
Se	<.00000	ppb	.1893	3.3962
Si	2266.4	ppb	9.5	.41814
Sn	<.00000	ppb	.25134	117.87
Sr	273.36	ppb	1.30	.47599
Ti	<.00000	ppb	2.4070	110.92
Tl	4.4124	ppb	.5505	12.477
V_	10.096	ppb	1.156	11.446
Zn	2.0819	ppb	.1315	6.3158
Zr	<.00000	ppb	.2411	11.220

CCV-4

Acquire Date: 15-Aug-2017 4:27 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	1989.7	ppb	18.9	.94786
Ag	511.36	ppb	7.01	1.3717
Al	2010.9	ppb	15.9	.79283
As	1974.1	ppb	4.9	.24744
Au	16.683	ppb	.341	2.0433
B_	2039.4	ppb	1.9	.09512
Ba	2036.2	ppb	22.5	1.1047
Be	1973.8	ppb	17.2	.87057
Ca	2021.7	ppb	21.2	1.0485
Cd	1975.6	ppb	1.4	.06886
Co	1927.0	ppb	2.3	.11838
Cr	2005.8	ppb	21.0	1.0494
Cu	2062.7	ppb	23.3	1.1310
Fe	1976.5	ppb	.7	.03350
K_	9614.4	ppb	52.4	.54485
Li	1999.6	ppb	63.9	3.1942
Mg	1992.7	ppb	29.5	1.4800
Mn	1919.4	ppb	.7	.03854
Mo	2003.5	ppb	4.0	.20200
Na	1962.4	ppb	16.9	.86241

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

CCV-4

Acquire Date: 15-Aug-2017 4:27 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ni	2036.4	ppb	2.1	.10546
Pb	1979.8	ppb	.6	.03111
Pd	<.00000	ppb	24.876	36.095
Sb	2006.8	ppb	2.1	.10466
Se	1945.9	ppb	1.0	.05267
Si	4802.0	ppb	105.5	2.1972
Sn	1971.0	ppb	1.2	.06108
Sr	1982.9	ppb	14.2	.71368
Ti	<.00000	ppb	.5084	19.765
Tl	1936.4	ppb	.9	.04607
V_	1996.3	ppb	24.7	1.2353
Zn	2022.1	ppb	1.6	.07764
Zr	.01039	ppb	1.53899	14,813

CCB-4

Acquire Date: 15-Aug-2017 4:32 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	51.013	ppb	3.860	7.5674
Ag	<.00000	ppb	1.26379	228.38
Al	<.00000	ppb	2.3179	24.950
As	<.00000	ppb	.5915	57.433
Au	<.00000	ppb	.92815	130.81
B_	.57681	ppb	.13037	22.602
Ba	.28645	ppb	.40070	139.88
Be	.14925	ppb	.03327	22.291
Ca	.46309	ppb	2.35739	509.05
Cd	.03685	ppb	.01268	34.402
Co	.02098	ppb	.10757	512.72
Cr	<.00000	ppb	10.08351	3,345.1
Cu	<.00000	ppb	.6907	54.397
Fe	<.00000	ppb	.09017	15.147
K_	3.1886	ppb	.5469	17.151
Li	31.038	ppb	53.436	172.17
Mg	<.00000	ppb	1.779	7.6141
Mn	.01721	ppb	.00905	52.577
Mo	.13891	ppb	.25689	184.94
Na	74.428	ppb	57.403	77.126
Ni	<.00000	ppb	.11106	54.746
Pb	.14958	ppb	.57917	387.21

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

CCB-4

Acquire Date: 15-Aug-2017 4:32 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Pd	<.00000	ppb	.443	1.0161
Sb	.17357	ppb	.19074	109.89
Se	.30607	ppb	.55438	181.13
Si	<.00000	ppb	7.591	53.422
Sn	<.00000	ppb	.05027	53.027
Sr	2.4250	ppb	5.4811	226.02
Ti	.59575	ppb	.96288	161.62
Tl	.42166	ppb	2.34011	554.98
V_	1.2411	ppb	5.8237	469.25
Zn	<.00000	ppb	.00914	26.981
Zr	<.00000	ppb	.0689	6.2663

170801036-005B

Acquire Date: 15-Aug-2017 4:36 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	227630.	ppb	589	.25883
Ag	2.1706	ppb	1.0233	47.145
Al	<.00000	ppb	2.91	1.2036
As	9.6295	ppb	.9810	10.187
Au	<.00000	ppb	.6241	33.524
B_	49.268	ppb	.001	.00285
Ba	87.339	ppb	1.605	1.8373
Be	.28263	ppb	.06653	23.541
Ca	151810.	ppb	1,869	1.2309
Cd	<.00000	ppb	.12389	270.44
Co	1.1159	ppb	.1244	11.146
Cr	3.6477	ppb	.9938	27.246
Cu	1.5407	ppb	.3683	23.905
Fe	73.894	ppb	.248	.33567
K_	14769.	ppb	169	1.1450
Li	<.00000	ppb	81.9	5.1339
Mg	9701.5	ppb	108.5	1.1186
Mn	163.04	ppb	.61	.37331
Mo	3.7931	ppb	.0458	1.2080
Na	173940.	ppb	1,312	.75419
Ni	1.2355	ppb	.0955	7.7264
Pb	.37421	ppb	.37143	99.256
Pd	<.00000	ppb	5.762	34.685
Sb	.56168	ppb	.35462	63.135

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

170801036-005B

Acquire Date: 15-Aug-2017 4:36 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Se	<.00000	ppb	.6627	21.659
Si	7022.1	ppb	73.9	1.0521
Sn	.37921	ppb	.28490	75.129
Sr	774.33	ppb	9.20	1.1875
Ti	<.00000	ppb	.7524	13.146
Tl	5.7427	ppb	.4127	7.1869
V_	22.081	ppb	1.904	8.6247
Zn	3.7733	ppb	.0749	1.9855
Zr	<.00000	ppb	1.69268	173.32

CRI-2

Acquire Date: 15-Aug-2017 4:56 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	397.98	ppb	62.32	15.660
Ag	20.768	ppb	.241	1.1601
Al	5.7376	ppb	14.2963	249.17
As	20.701	ppb	1.327	6.4118
Au	1.0711	ppb	.4548	42.459
B_	2.4406	ppb	.7650	31.346
Ba	.55754	ppb	.77185	138.44
Be	9.9544	ppb	.0405	.40647
Ca	<.00000	ppb	5.3694	193.28
Cd	9.4052	ppb	.1383	1.4702
Co	93.613	ppb	.145	.15543
Cr	16.720	ppb	3.290	19.678
Cu	50.422	ppb	1.749	3.4695
Fe	<.00000	ppb	.0485	3.3427
K_	5.2173	ppb	5.1469	98.650
Li	21.776	ppb	49.799	228.68
Mg	<.00000	ppb	4.320	17.941
Mn	27.645	ppb	.002	.00855
Mo	<.00000	ppb	.03023	16.977
Na	222.68	ppb	10.84	4.8684
Ni	79.516	ppb	.243	.30558
Pb	6.1056	ppb	.2629	4.3066
Pd	<.00000	ppb	.0001	.00154
Sb	116.00	ppb	1.23	1.0601
Se	9.1406	ppb	1.4742	16.128
Si	<.00000	ppb	.4446	9.3872

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

CRI-2

Acquire Date: 15-Aug-2017 4:56 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Sn	<.00000	ppb	.00001	.00579
Sr	<.00000	ppb	1.2311	114.25
Ti	<.00000	ppb	.15046	22.811
Tl	21.283	ppb	2.065	9.7035
V_	104.93	ppb	1.57	1.4936
Zn	40.144	ppb	.276	.68715
Zr	<.00000	ppb	.03432	23.407

ICSA-2

Acquire Date: 15-Aug-2017 4:59 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	510.68	ppb	59.09	11.570
Ag	<.00000	ppb	.994	2.2500
Al	498580.	ppb	712	.14283
As	<.00000	ppb	1.4	.11559
Au	158.40	ppb	.37	.23312
B_	<.00000	ppb	.95	.68870
Ba	2.5147	ppb	.7543	29.996
Be	2.3186	ppb	.0835	3.6004
Ca	425660.	ppb	1,582	.37166
Cd	<.00000	ppb	.0126	.78416
Co	.83276	ppb	.17986	21.598
Cr	<.00000	ppb	2.146	16.376
Cu	<.00000	ppb	1.714	6.3409
Fe	126790.	ppb	501	.39489
K_	<.00000	ppb	4.1987	287.02
Li	<.00000	ppb	134.1	5.6045
Mg	515140.	ppb	1,174	.22785
Mn	<.00000	ppb	.0523	.71656
Mo	<.00000	ppb	.1967	4.9260
Na	300.33	ppb	48.79	16.247
Ni	<.00000	ppb	.077	.38259
Pb	<.00000	ppb	.016	.01982
Pd	<.00000	ppb	12.392	65.954
Sb	<.00000	ppb	.5363	7.5884
Se	<.00000	ppb	.673	1.3397
Si	<.00000	ppb	9.304	83.506
Sn	<.00000	ppb	.90502	1,526.4
Sr	6.4340	ppb	3.8287	59.508

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

ICSA-2

Acquire Date: 15-Aug-2017 4:59 pm

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Ti	<.00000	ppb	1.994	11.606
Tl	<.00000	ppb	3.3494	86.737
V_	<.00000	ppb	6.488	29.958
Zn	<.00000	ppb	.001	.00375
Zr	<.00000	ppb	1.1168	11.960

ICSAB-2

Acquire Date: 15-Aug-2017 5:02 pm

Sample Type: Unknown

Correction Factor: 1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	153.43	ppb	20.23	13.183
Ag	1051.7	ppb	4.0	.37758
Al	506550.	ppb	2,664	.52587
As	<.00000	ppb	6.0	.47288
Au	167.69	ppb	1.51	.90123
B_	<.00000	ppb	.57	.39570
Ba	507.88	ppb	1.98	.38961
Be	493.34	ppb	2.30	.46544
Ca	431660.	ppb	1,847	.42789
Cd	899.97	ppb	.23	.02598
Co	449.69	ppb	1.27	.28338
Cr	587.27	ppb	8.28	1.4097
Cu	541.64	ppb	3.33	.61394
Fe	127920.	ppb	418	.32679
K_	<.00000	ppb	1.5485	19.627
Li	<.00000	ppb	128.4	5.3808
Mg	521740.	ppb	2,217	.42485
Mn	413.81	ppb	.16	.03921
Mo	<.00000	ppb	.0806	2.7153
Na	110.00	ppb	41.25	37.495
Ni	1020.7	ppb	2.3	.22129
Pb	864.61	ppb	.00	.00002
Pd	<.00000	ppb	12.411	15.714
Sb	<.00000	ppb	.3212	13.342
Se	<.00000	ppb	.082	.15437
Si	<.00000	ppb	5.359	13.259
Sn	<.00000	ppb	.23457	282.99
Sr	9.2436	ppb	4.9241	53.270
Ti	<.00000	ppb	1.655	8.1448
Tl	<.00000	ppb	1.445	11.529

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

ICSAB-2

Acquire Date: 15-Aug-2017 5:02 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
V_	467.14	ppb	2.83	.60554
Zn	888.85	ppb	1.13	.12713
Zr	<.00000	ppb	.0000	.00032

CCV-5

Acquire Date: 15-Aug-2017 5:06 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	2020.8	ppb	20.4	1.0083
Ag	510.87	ppb	1.79	.35107
Al	2013.7	ppb	29.3	1.4560
As	1978.4	ppb	1.8	.09090
Au	20.697	ppb	1.208	5.8387
B_	2040.6	ppb	2.5	.12475
Ba	2029.0	ppb	14.4	.71004
Be	1974.9	ppb	18.8	.95302
Ca	2035.1	ppb	17.6	.86635
Cd	1978.6	ppb	.7	.03437
Co	1938.5	ppb	1.0	.04920
Cr	1997.4	ppb	23.3	1.1684
Cu	2047.3	ppb	13.1	.64104
Fe	1981.8	ppb	4.7	.23924
K_	9617.4	ppb	102.5	1.0655
Li	2007.5	ppb	74.6	3.7141
Mg	1987.1	ppb	6.8	.34289
Mn	1917.0	ppb	.4	.02219
Mo	2008.7	ppb	3.3	.16291
Na	1983.3	ppb	13.4	.67705
Ni	2040.6	ppb	3.1	.15405
Pb	1995.4	ppb	1.0	.04767
Pd	<.00000	ppb	22.161	40.636
Sb	2009.5	ppb	2.6	.12818
Se	1957.2	ppb	1.0	.05030
Si	4779.2	ppb	68.7	1.4366
Sn	1986.4	ppb	3.2	.15962
Sr	1979.4	ppb	6.2	.31446
Ti	<.00000	ppb	2.6179	79.380
Tl	1941.6	ppb	3.5	.17815
V_	1987.6	ppb	19.8	.99480
Zn	2031.8	ppb	.6	.02988

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

CCV-5

Acquire Date: 15-Aug-2017 5:06 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
Zr	.65923	ppb	.13846	21.003

CCB-5

Acquire Date: 15-Aug-2017 5:09 pm

Sample Type: Unknown

Correction Factor:1.0000

SW: 1.0000

NW: 1.0000

IV: 1.0000

FV: 1.0000

AF: 1.0000

Elem	Avg	Units	Stddev	%RSD
2Na	68.377	ppb	6.872	10.051
Ag	1.6161	ppb	1.6827	104.12
Al	4.2304	ppb	6.3653	150.47
As	1.1556	ppb	.8743	75.659
Au	<.00000	ppb	.45430	45.854
B_	1.9265	ppb	.9374	48.660
Ba	.99696	ppb	.41541	41.668
Be	.09497	ppb	.04307	45.354
Ca	2.0392	ppb	2.2297	109.34
Cd	.00001	ppb	.00282	34,197
Co	<.00000	ppb	.00741	10.092
Cr	<.00000	ppb	12.7752	179.13
Cu	<.00000	ppb	1.570	15.467
Fe	<.00000	ppb	.36842	1,009.6
K_	<.00000	ppb	4.0911	184.41
Li	29.562	ppb	48.217	163.11
Mg	<.00000	ppb	6.362	25.283
Mn	<.00000	ppb	.01060	117.29
Mo	.53069	ppb	.36769	69.286
Na	30.661	ppb	64.648	210.85
Ni	<.00000	ppb	.05242	46.203
Pb	.07511	ppb	.57892	770.78
Pd	<.00000	ppb	4.868	23.177
Sb	.38534	ppb	.98094	254.56
Se	.53555	ppb	.93296	174.21
Si	<.00000	ppb	3.174	12.735
Sn	<.00000	ppb	.16760	282.83
Sr	<.00000	ppb	2.5521	51.972
Ti	1.5530	ppb	2.3770	153.06
Tl	.14583	ppb	.57370	393.41
V_	4.8577	ppb	5.1150	105.30
Zn	<.00000	ppb	.08174	206.03
Zr	<.00000	ppb	1.3534	131.51

Color Legend: [Pass/Unchecked](#) [Internal Standard](#) [Check Fail](#) [Check Warn](#)

Sample Report

Printed: 8/16/2017 11:29 am

Color Legend: Pass/Unchecked Internal Standard Check Fail Check Warn

Sample Report

Printed: 8/16/2017 11:29 am

Adirondack Environmental Services, Inc

PREP BATCH REPORT

Prep Start Date: **8/8/2017 9:03:11 A**

Prep End Date: **8/8/2017 10:35:07**

Comments:

Temp: 95 Start Time:911 End Time:1029

Page:1 of 1

Prep Factor Units:

mL / mL

Prep Batch **56086**

Prep Code: **3010CLP**

Technician: **Ashlyn VanBuren**

Sample ID	Matrix	pH	ResCl	SampAmt	Sol Added	Fin Vol	factor	PrepStart	PrepEnd	ExPos	TareWt	CleanUp
MB-56086				50	0	50	1.000	8/8/2017	8/8/2017		0	
LCS-56086				50	0	50	1.000	8/8/2017	8/8/2017		0	
170801036-001B	Groundwater	1		50	0	50	1.000	8/8/2017	8/8/2017		0	
170801036-002B	Groundwater	1		50	0	50	1.000	8/8/2017	8/8/2017		0	
170801036-003B	Groundwater	1		50	0	50	1.000	8/8/2017	8/8/2017		0	
170801036-003BMS	Groundwater	1		50	0	50	1.000	8/8/2017	8/8/2017		0	
170801036-003BMSD	Groundwater	1		50	0	50	1.000	8/8/2017	8/8/2017		0	
170801036-005B	Groundwater	1		50	0	50	1.000	8/8/2017	8/8/2017		0	

Number	Reagent Name	Solution ID	Solution Name	SampType	AmtAdd	units
4692	Nitric Acid	MSP-ICP SPIKE-	ICP Spike		0.5ml	
4658	Hydrochloric Acid	MWS-200.7-6-61	200.7-6		50ml	
4736	Hot Block Digestion Vessels - 50mL					