

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004615.D
 Acq On : 16 Sep 2018 05:45
 Operator : JC/MD
 Sample : J4913-18
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW307S-20180913

Quant Time: Sep 17 08:47:17 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	246754	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	325992	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291083	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	197066	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	153459	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	
35) Dibromofluoromethane	5.50	113	141011	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	
50) Toluene-d8	8.71	98	437414	43.72	ug/l	0.00
Spiked Amount			Recovery	=	87.44%	
62) 4-Bromofluorobenzene	11.14	95	148568	41.60	ug/l	0.00
Spiked Amount			Recovery	=	83.20%	

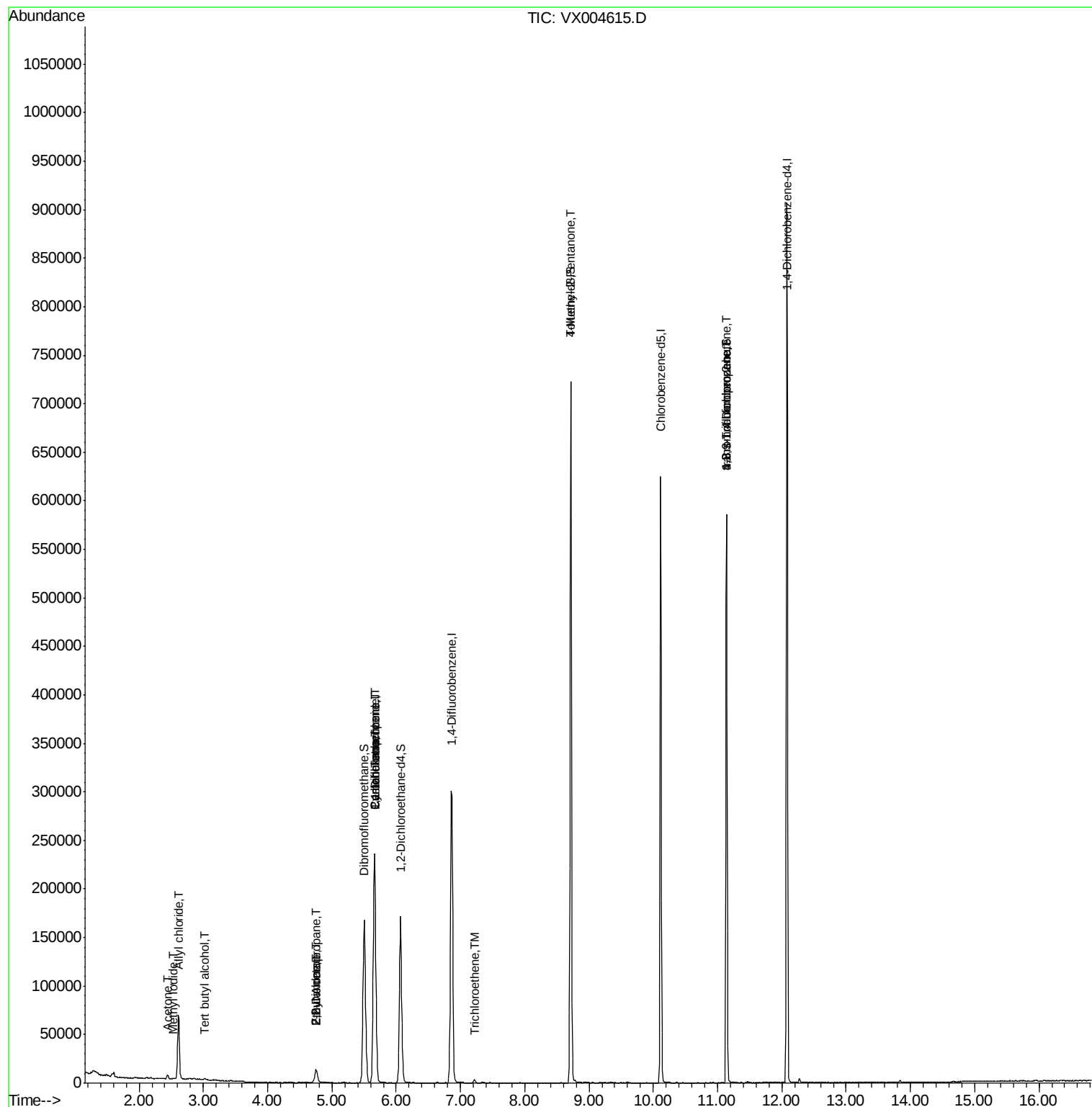
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	316	Below Cal		92
10) Methyl Iodide	2.53	142	202	4.31	ug/l #	41
11) Tert butyl alcohol	3.03	59	973	1.28	ug/l #	72
14) Allyl chloride	2.61	41	6581	1.24	ug/l #	71
16) Acetone	2.45	43	4072	2.62	ug/l	100
25) 2-Butanone	4.76	43	1125	0.46	ug/l #	47
26) 2,2-Dichloropropane	4.76	77	1067	0.29	ug/l #	52
31) Cyclohexane	5.66	56	3989	0.87	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	16271	4.11	ug/l #	48
37) Ethyl Acetate	4.76	43	1125	0.25	ug/l #	21
38) Carbon Tetrachloride	5.67	117	19463	5.03	ug/l #	16
44) Trichloroethene	7.21	130	1289	0.42	ug/l	83
51) 4-Methyl-2-Pentanone	8.71	43	1745	0.41	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	70685	17.83	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	70685	56.83	ug/l #	10

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX004615.D

Acq: 16 Sep 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

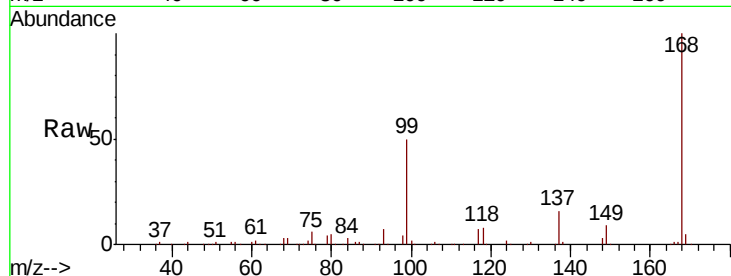
BPS1-TT-MW307S-20180913

Tot Ion:168 Resp: 246754

Ion Ratio Lower Upper

168 100

99 49.6 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

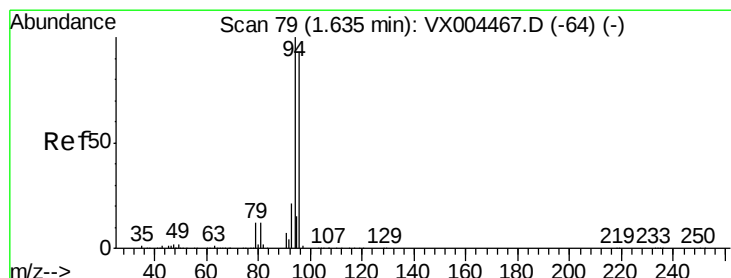
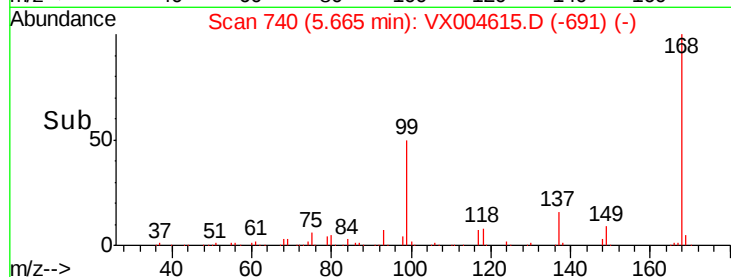
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX004615.D

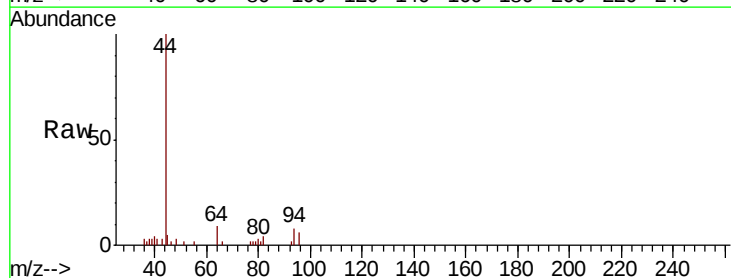
Acq: 16 Sep 2018 05:45

Tgt Ion: 94 Resp: 316

Ion Ratio Lower Upper

94 100

96 85.5 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

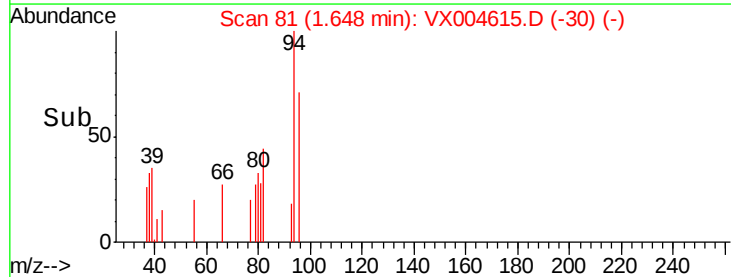
300

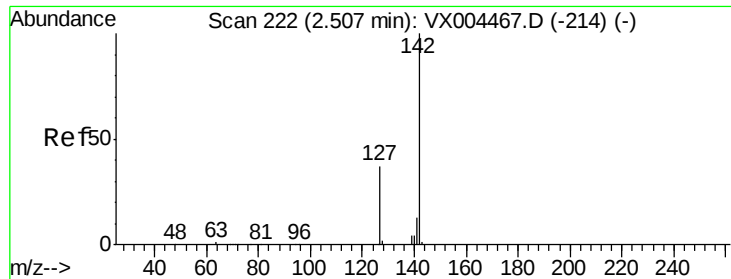
200

100

0

Time--> 1.62 1.64 1.66 1.68

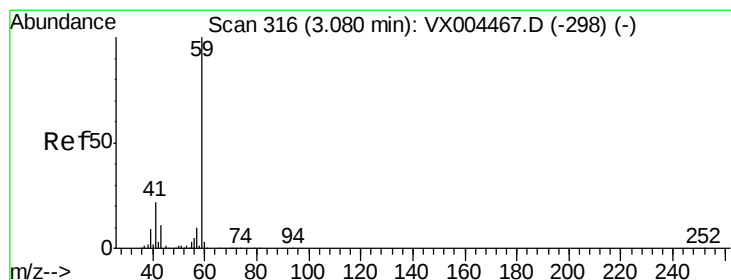
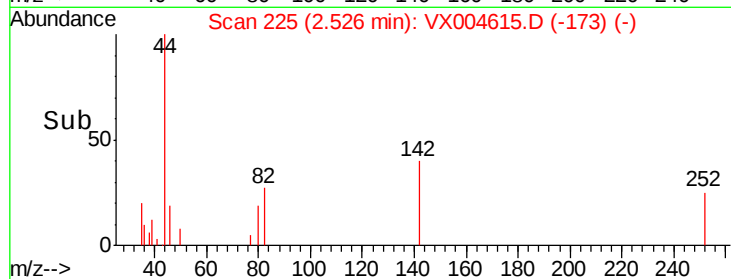
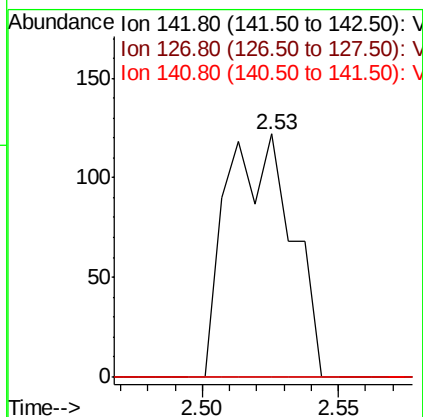
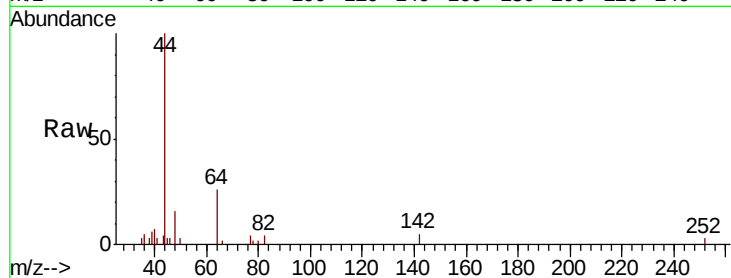




#10
Methvl Iodide
Concen: 4.31 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.02 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

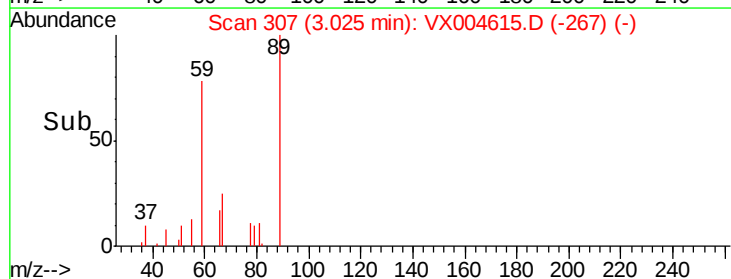
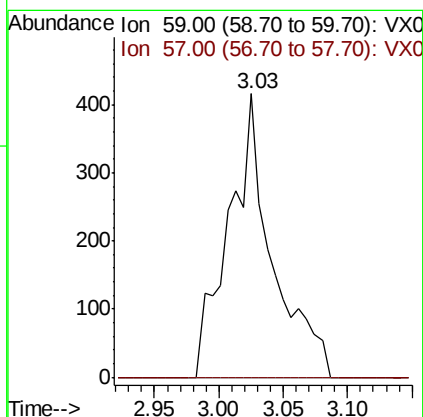
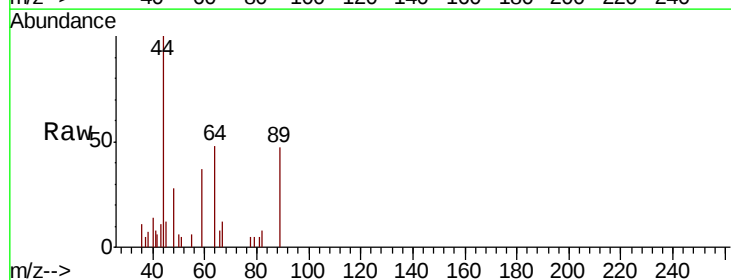
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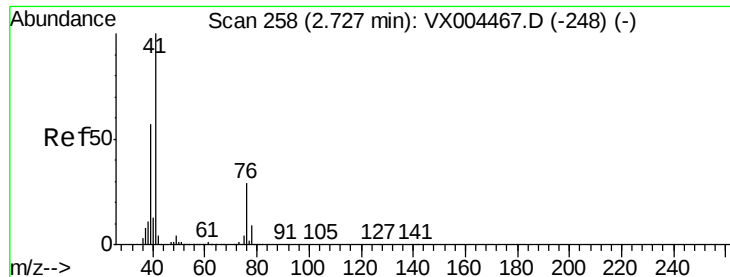
Tot Ion:142 Resp: 202
Ion Ratio Lower Upper
142 100
127 0.0 33.8 50.6#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.28 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

Tgt Ion: 59 Resp: 973
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

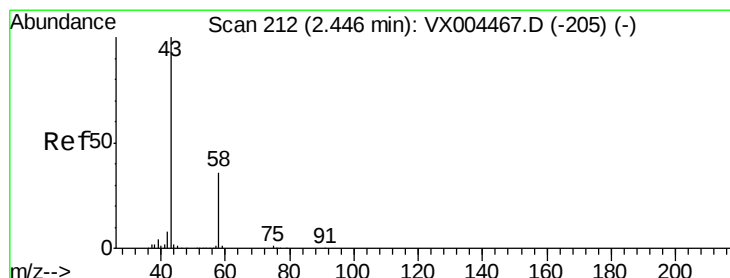
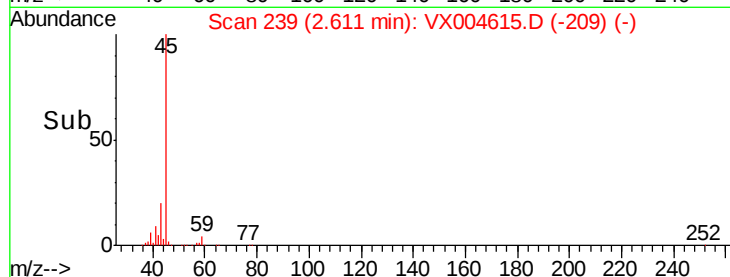
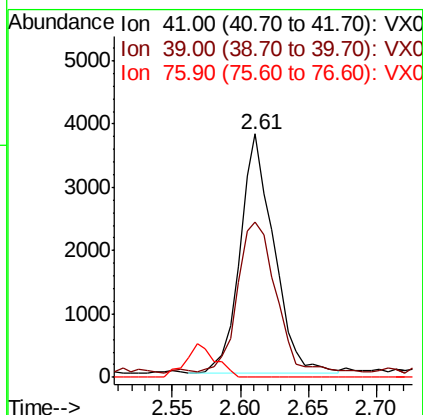
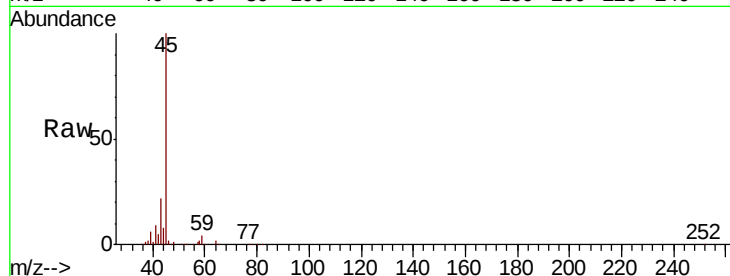




#14
Allvl chloride
Concen: 1.24 ug/l
RT: 2.61 min Scan# 239
Delta R.T. -0.12 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

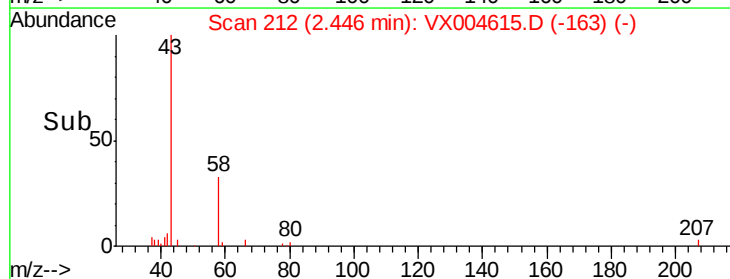
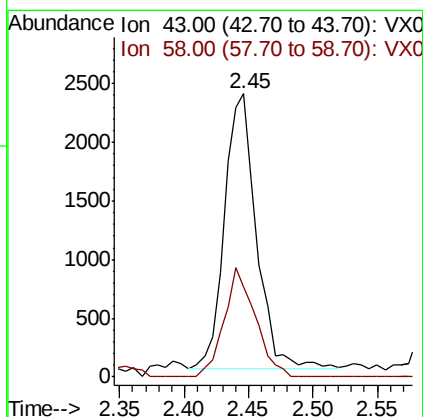
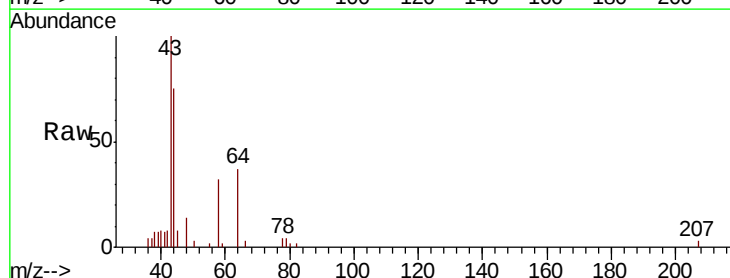
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW307S-20180913

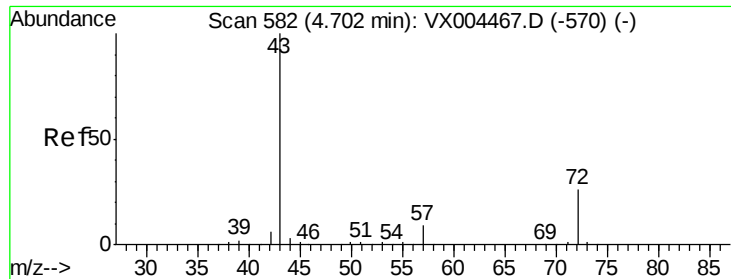
Tot Ion: 41 Resp: 6581
Ion Ratio Lower Upper
41 100
39 70.8 48.9 73.3
76 0.0 26.7 40.1#



#16
Acetone
Concen: 2.62 ug/l
RT: 2.45 min Scan# 212
Delta R.T. 0.00 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

Tgt Ion: 43 Resp: 4072
Ion Ratio Lower Upper
43 100
58 32.6 26.2 39.4





#25

2-Butanone

Concen: 0.46 ug/l

RT: 4.76 min Scan# 592

Delta R.T. 0.06 min

Lab File: VX004615.D

Acq: 16 Sep 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

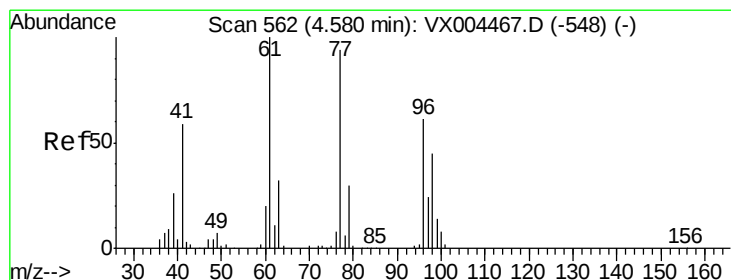
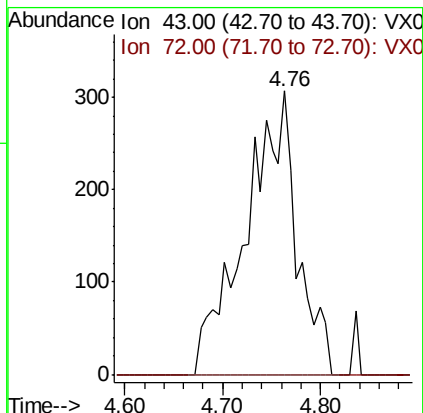
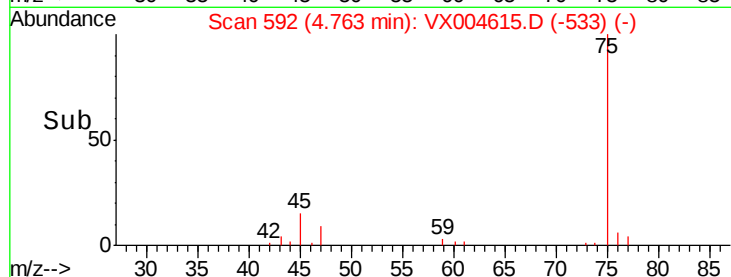
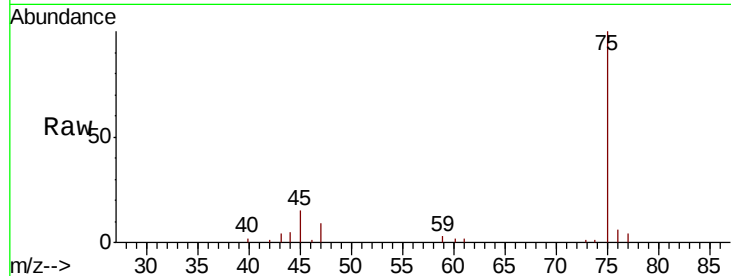
BPS1-TT-MW307S-20180913

Tot Ion: 43 Resp: 1125

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.29 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.18 min

Lab File: VX004615.D

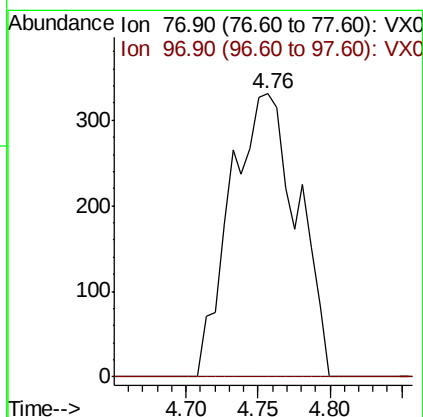
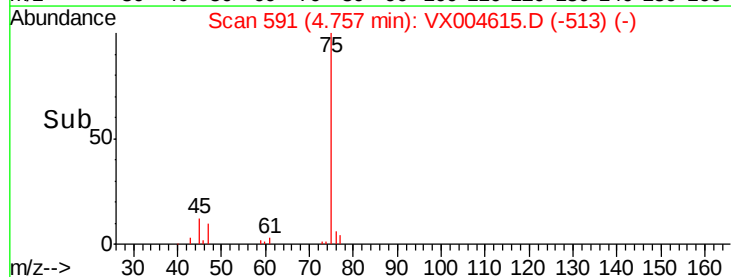
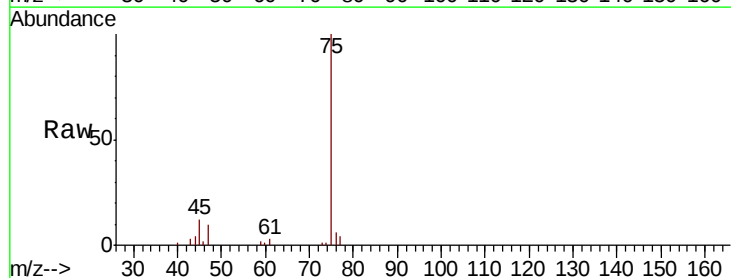
Acq: 16 Sep 2018 05:45

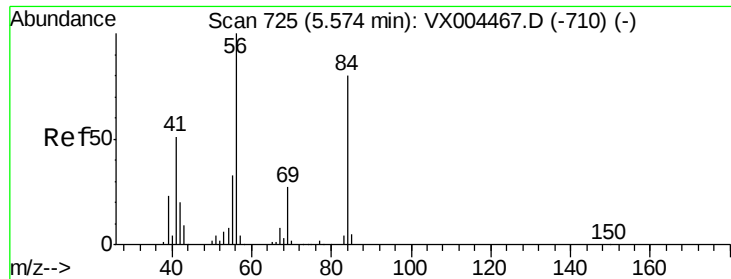
Tgt Ion: 77 Resp: 1067

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#

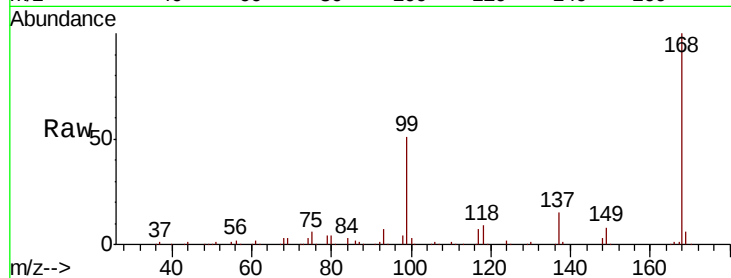




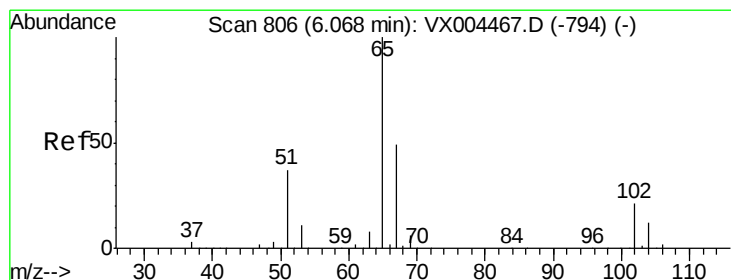
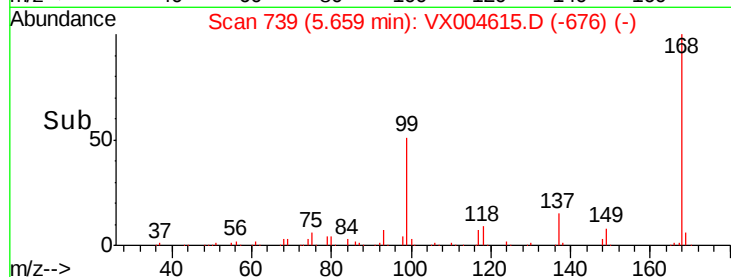
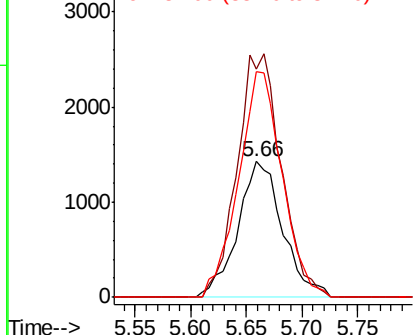
#31
Cyclohexane
Concen: 0.87 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

Instrument :
MSVOA_X
ClientSampleId :
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Tot Ion: 56 Resp: 3989
Ion Ratio Lower Upper
56 100
69 167.6 25.4 38.2#
84 166.1 71.4 107.2#

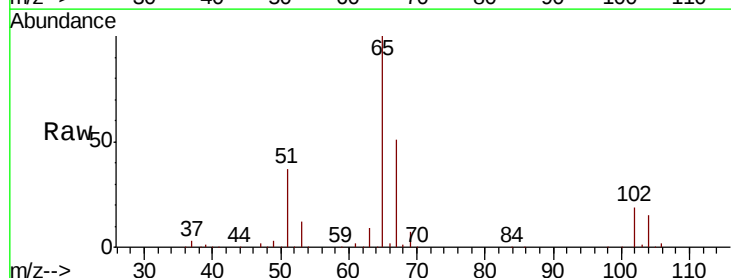


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

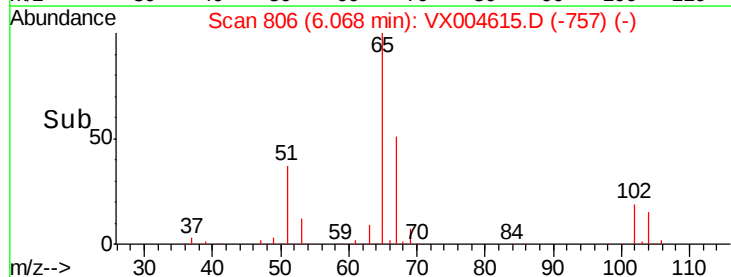
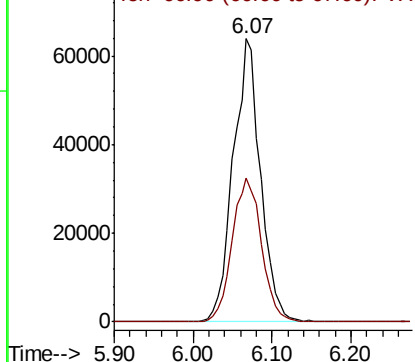


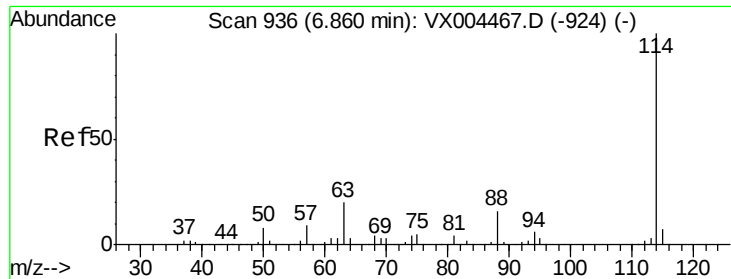
#33
1,2-Dichloroethane-d4
Concen: 48.23 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

Tgt Ion: 65 Resp: 153459
Ion Ratio Lower Upper
65 100
67 54.4 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

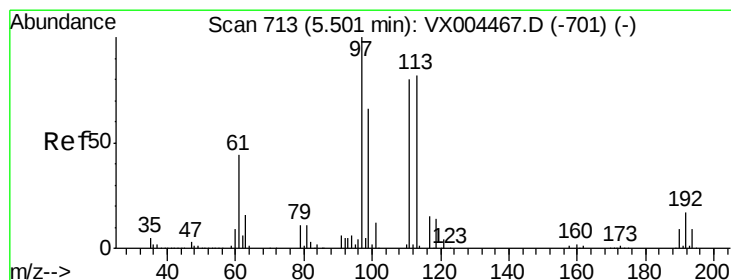
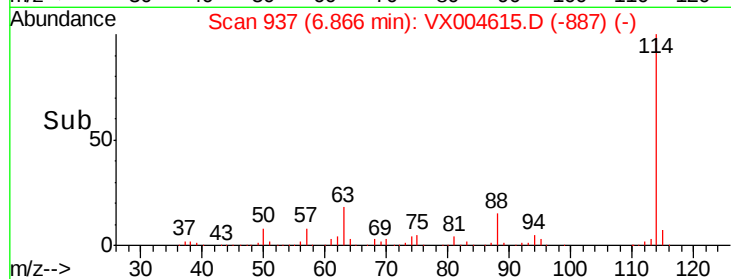
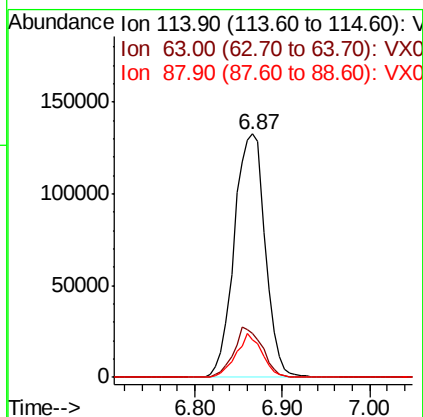
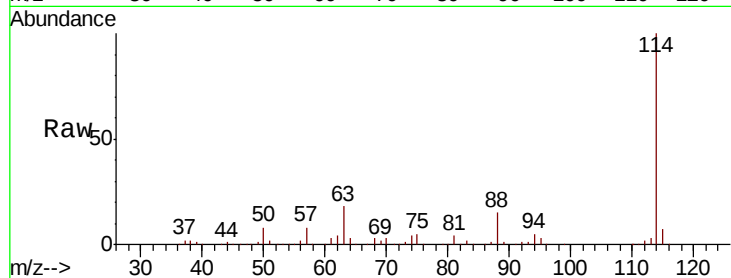




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 937
 Delta R.T. 0.01 min
 Lab File: VX004615.D
 Acq: 16 Sep 2018 05:45

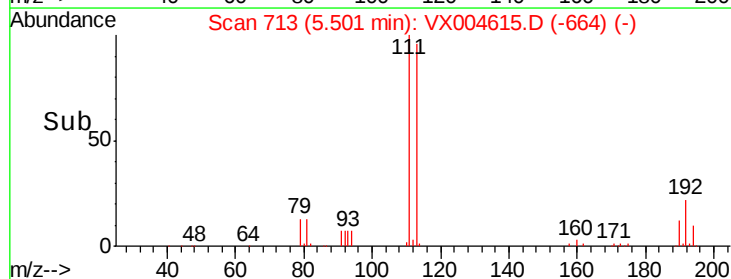
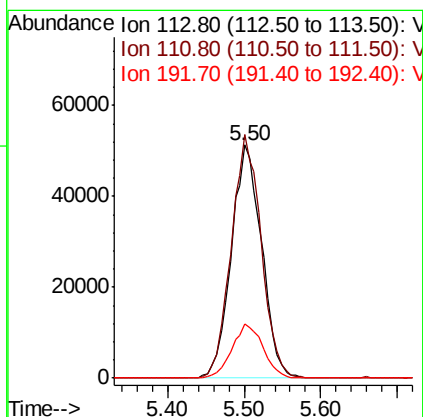
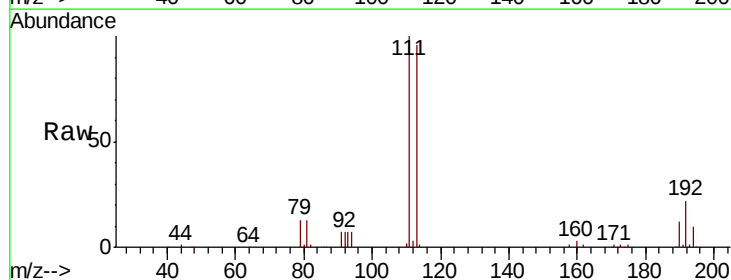
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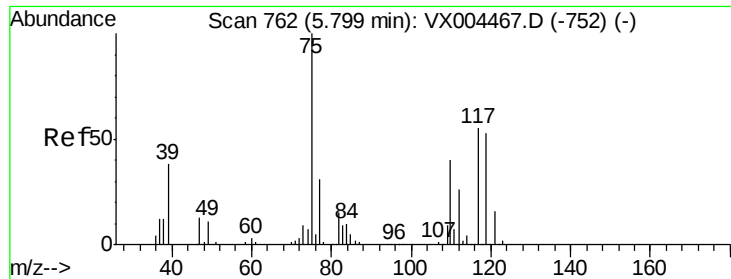
Tot Ion:114 Resp: 325992
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.0
 88 15.3 0.0 30.4



#35
 Dibromofluoromethane
 Concen: 47.27 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX004615.D
 Acq: 16 Sep 2018 05:45

Tgt Ion:113 Resp: 141011
 Ion Ratio Lower Upper
 113 100
 111 102.8 82.4 123.6
 192 23.6 19.4 29.2

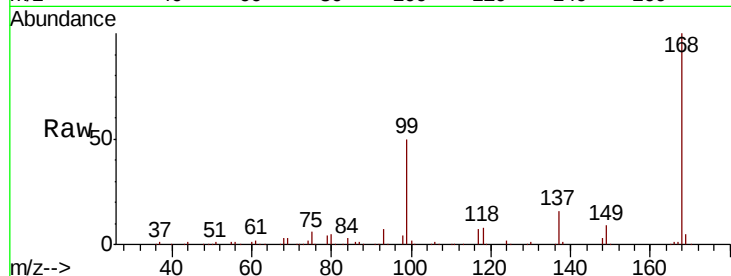




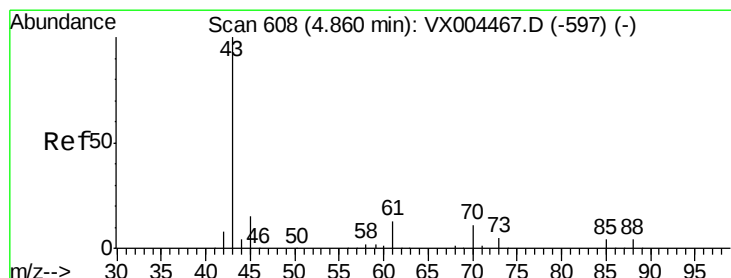
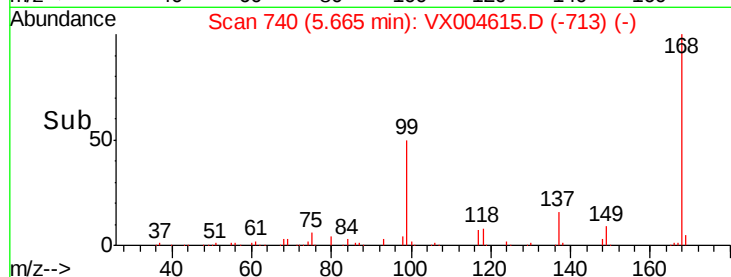
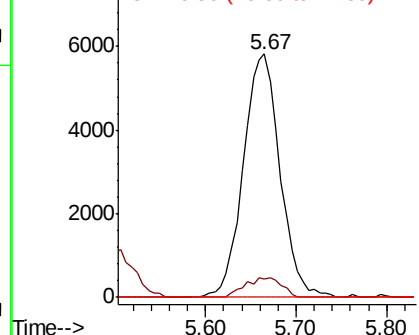
#36
 1,1-Dichloropropene
 Concen: 4.11 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004615.D
 Acq: 16 Sep 2018 05:45

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW307S-20180913

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.0	54.0#
77	0.0	24.6	36.8#

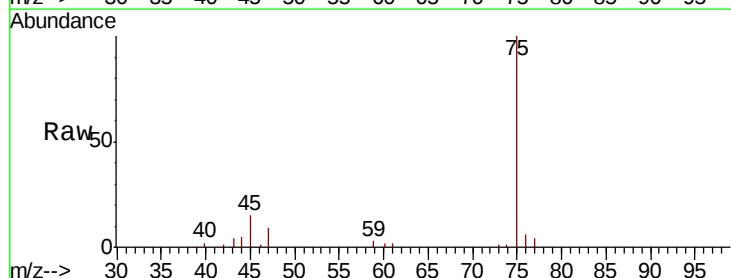


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

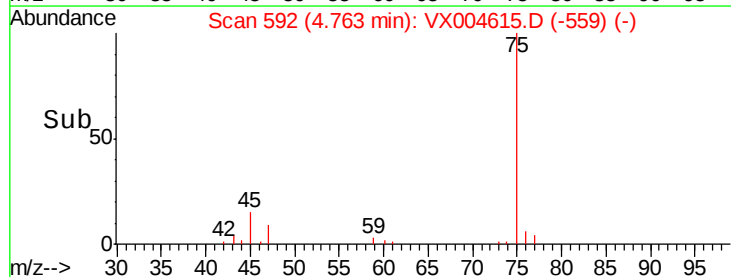
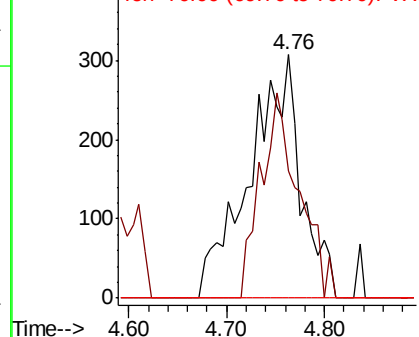


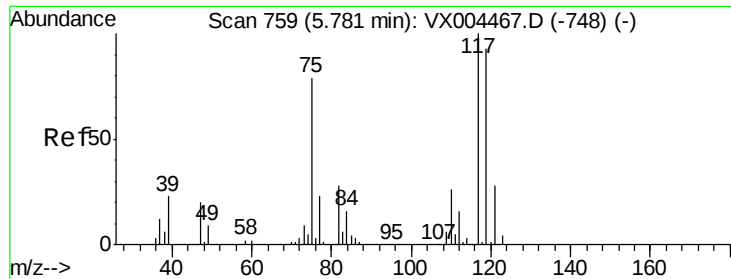
#37
 Ethyl Acetate
 Concen: 0.25 ug/l
 RT: 4.76 min Scan# 592
 Delta R.T. -0.10 min
 Lab File: VX004615.D
 Acq: 16 Sep 2018 05:45

Tgt Ion	Ratio	Lower	Upper
43	100		
61	62.7	11.5	17.3#
70	0.0	9.0	13.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX004615.D

Acq: 16 Sep 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW307S-20180913

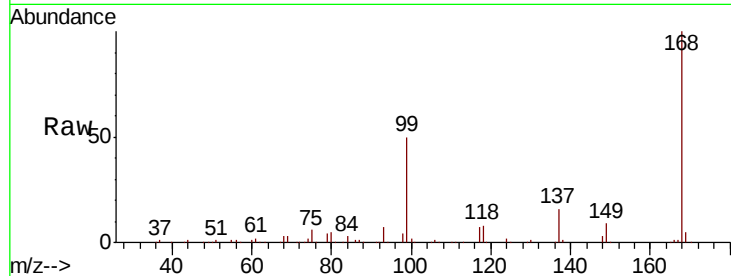
Tot Ion:117 Resp: 19463

Ion Ratio Lower Upper

117 100

119 6.6 78.8 118.2#

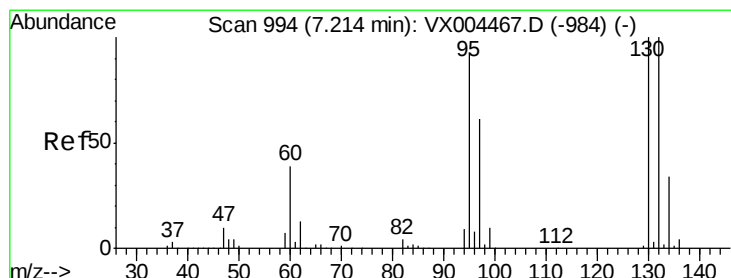
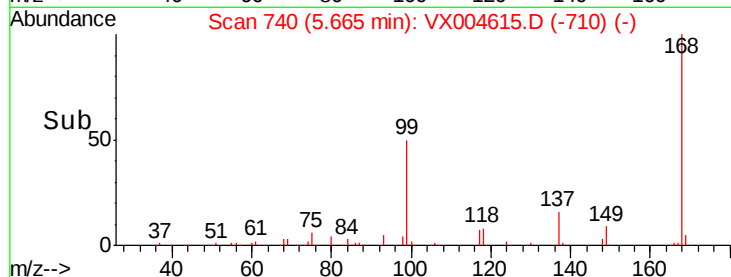
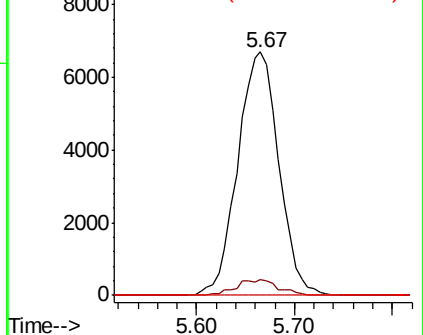
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.42 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX004615.D

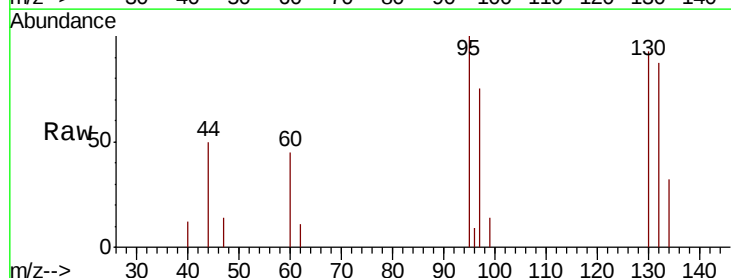
Acq: 16 Sep 2018 05:45

Tgt Ion:130 Resp: 1289

Ion Ratio Lower Upper

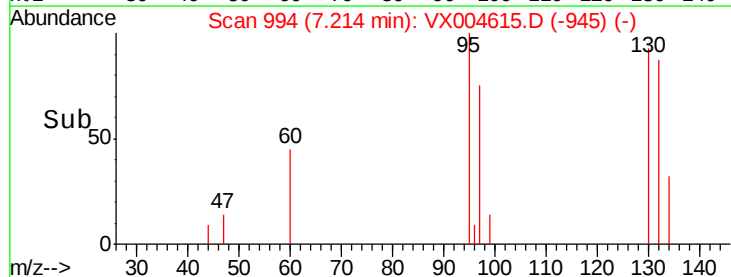
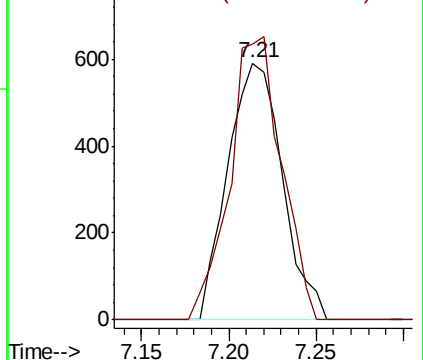
130 100

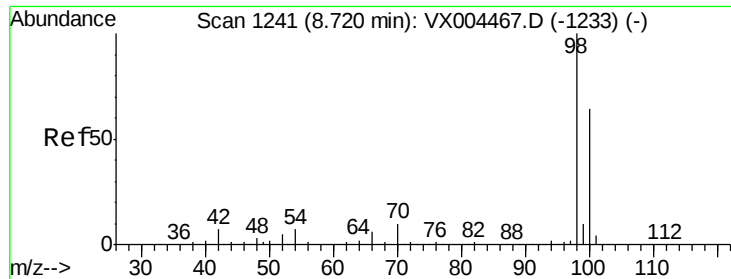
95 107.3 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 43.72 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004615.D

Acq: 16 Sep 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

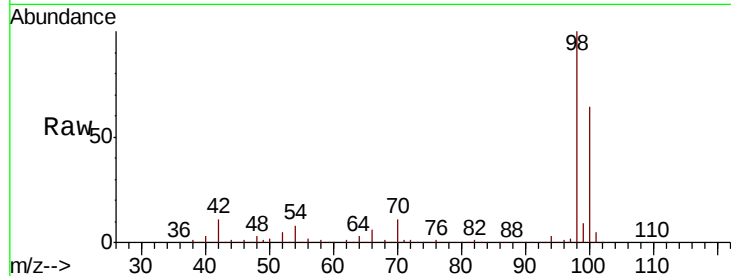
BPS1-TT-MW307S-20180913

Tot Ion: 98 Resp: 437414

Ion Ratio Lower Upper

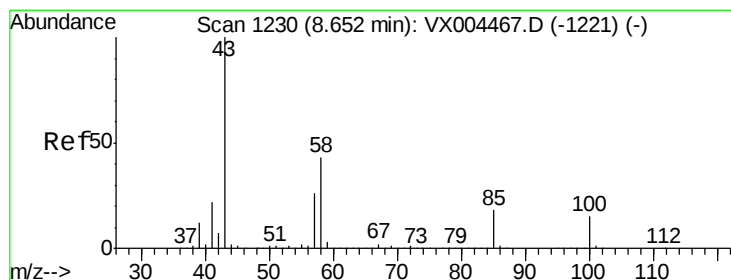
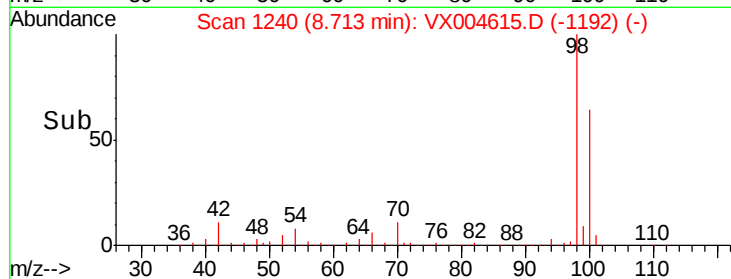
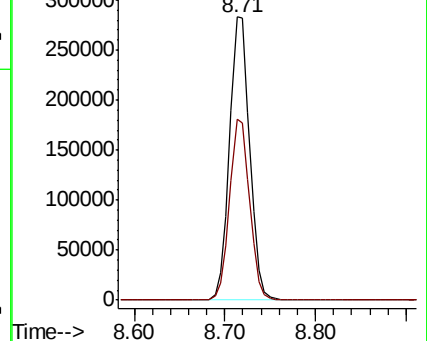
98 100

100 63.5 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.41 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX004615.D

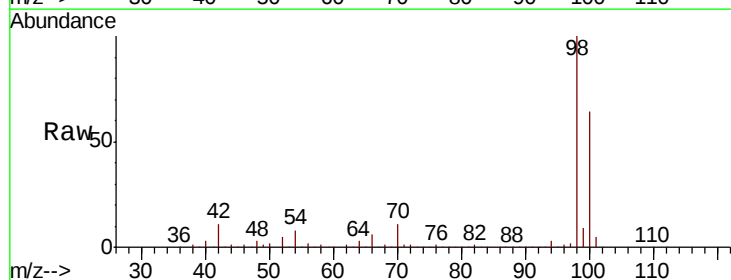
Acq: 16 Sep 2018 05:45

Tgt Ion: 43 Resp: 1745

Ion Ratio Lower Upper

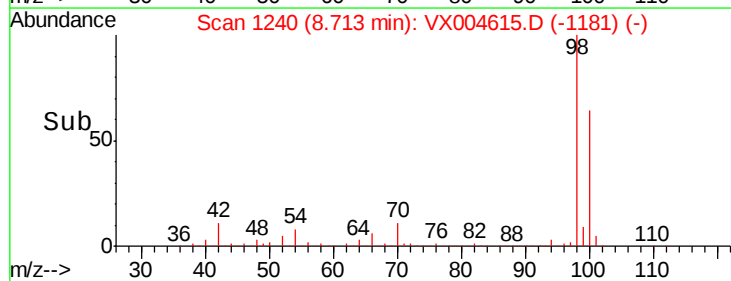
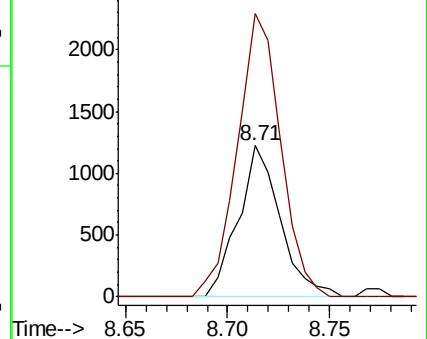
43 100

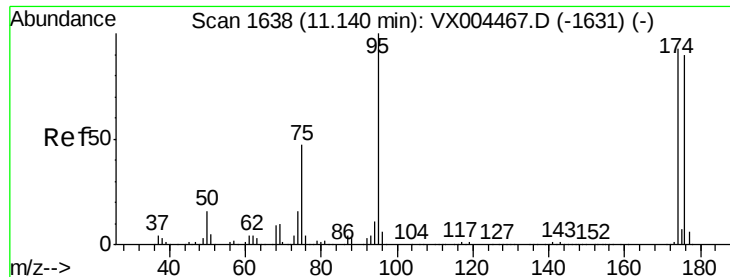
58 193.6 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

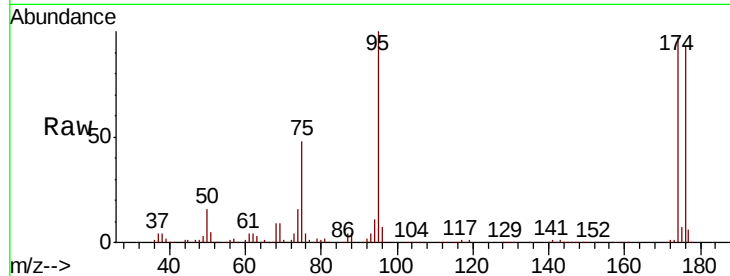




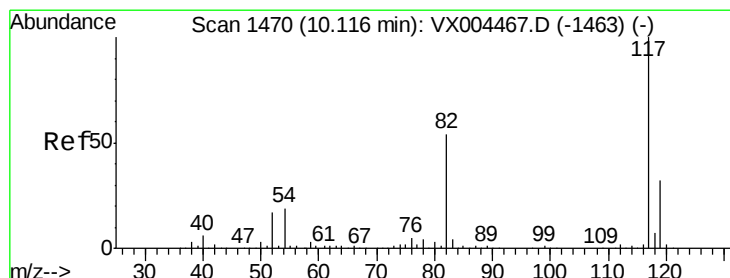
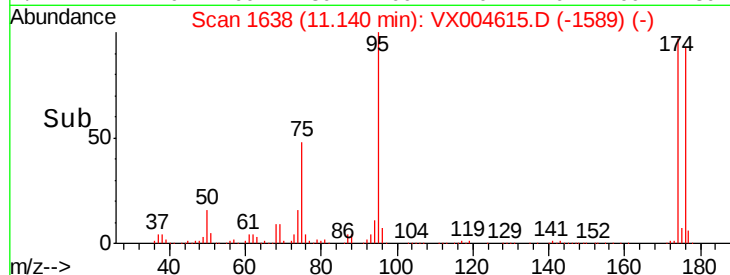
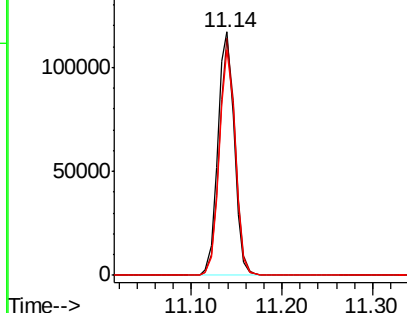
#62
4-Bromofluorobenzene
Concen: 41.60 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW307S-20180913

Tot Ion: 95 Resp: 148568
Ion Ratio Lower Upper
95 100
174 94.0 0.0 185.2
176 90.4 0.0 178.6

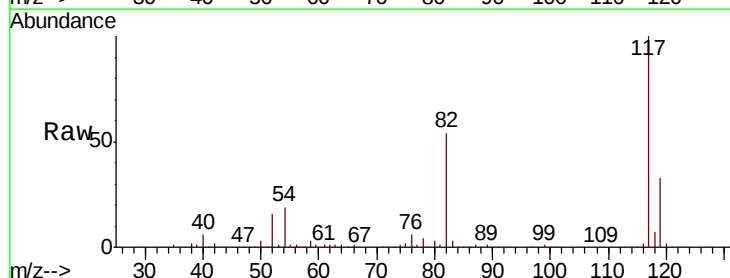


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

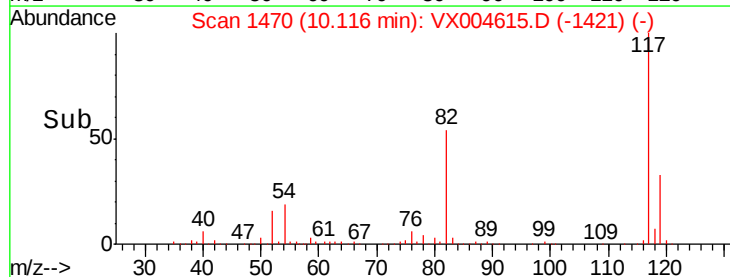
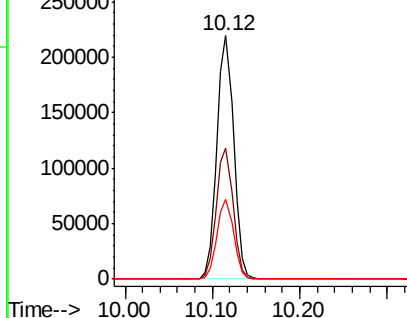


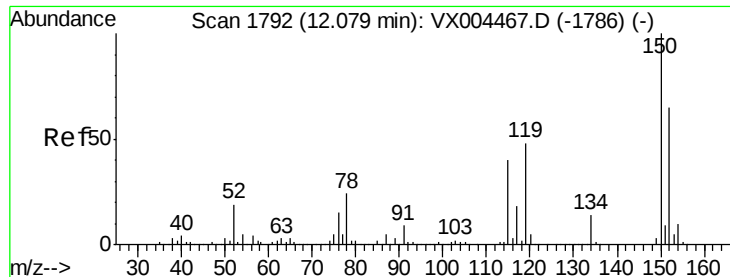
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX004615.D
Acq: 16 Sep 2018 05:45

Tgt Ion: 117 Resp: 291083
Ion Ratio Lower Upper
117 100
82 53.6 47.8 71.6
119 32.9 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004615.D

Acq: 16 Sep 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW307S-20180913

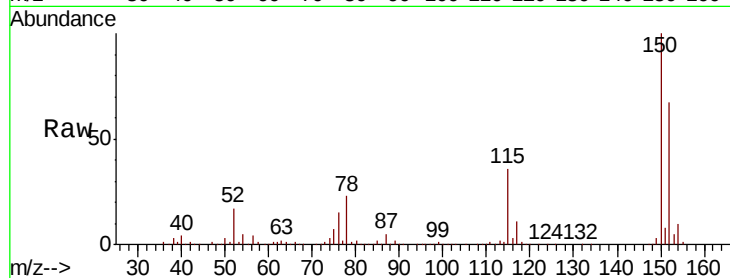
Tot Ion:152 Resp: 197066

Ion Ratio Lower Upper

152 100

115 53.5 39.0 117.0

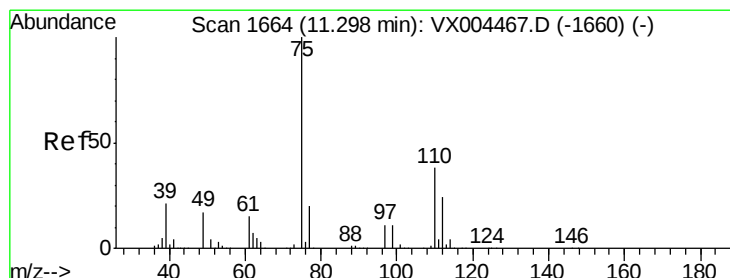
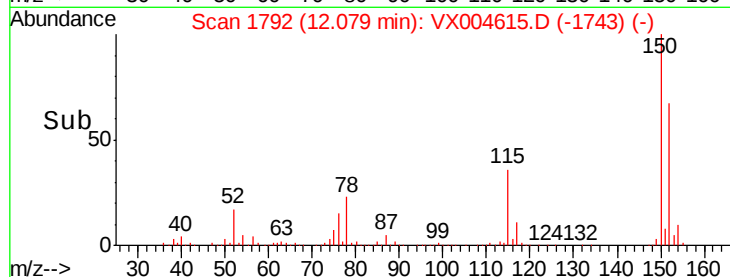
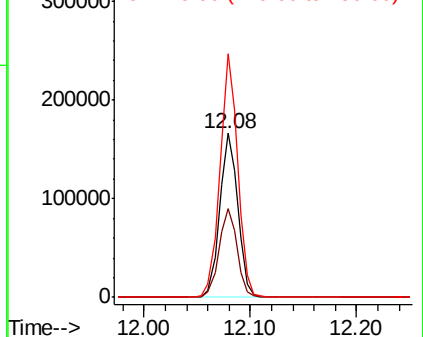
150 145.2 0.0 351.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 17.83 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004615.D

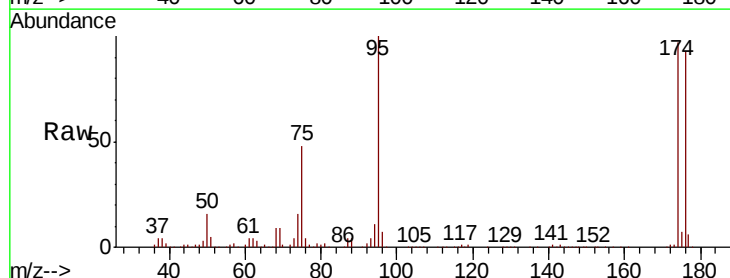
Acq: 16 Sep 2018 05:45

Tgt Ion: 75 Resp: 70685

Ion Ratio Lower Upper

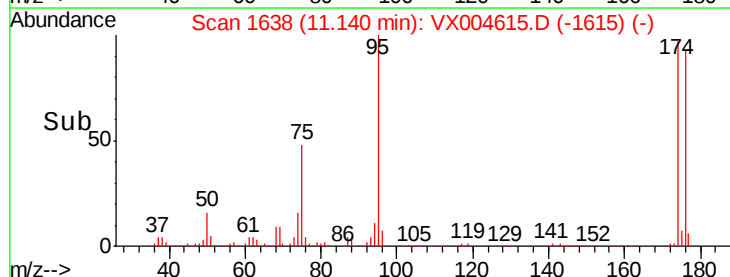
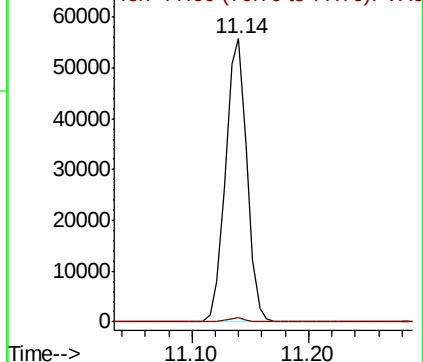
75 100

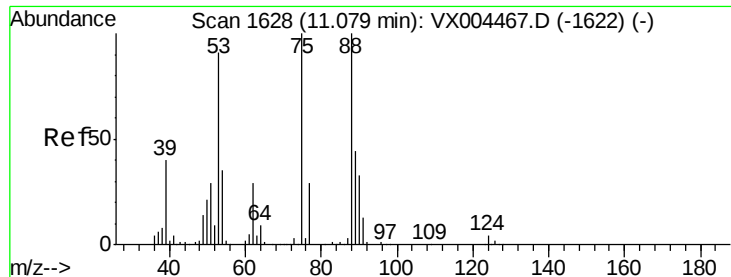
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 56.83 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004615.D

Acq: 16 Sep 2018 05:45

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW307S-20180913

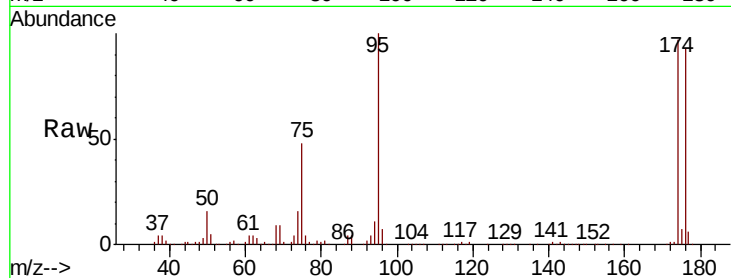
Tot Ion: 75 Resp: 70685

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

