

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091518\
 Data File : VX004594.D
 Acq On : 15 Sep 2018 19:33
 Operator : JC/MD
 Sample : J4929-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SP-PIT-11-BASELINE-WATER

Quant Time: Sep 17 08:40:08 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	231054	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	329249	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	316779	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	176473	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	144980	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
35) Dibromofluoromethane	5.49	113	142381	47.26	ug/l	0.00
Spiked Amount			Recovery	=	94.52%	
50) Toluene-d8	8.72	98	469531	46.47	ug/l	0.00
Spiked Amount			Recovery	=	92.94%	
62) 4-Bromofluorobenzene	11.14	95	166376	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	

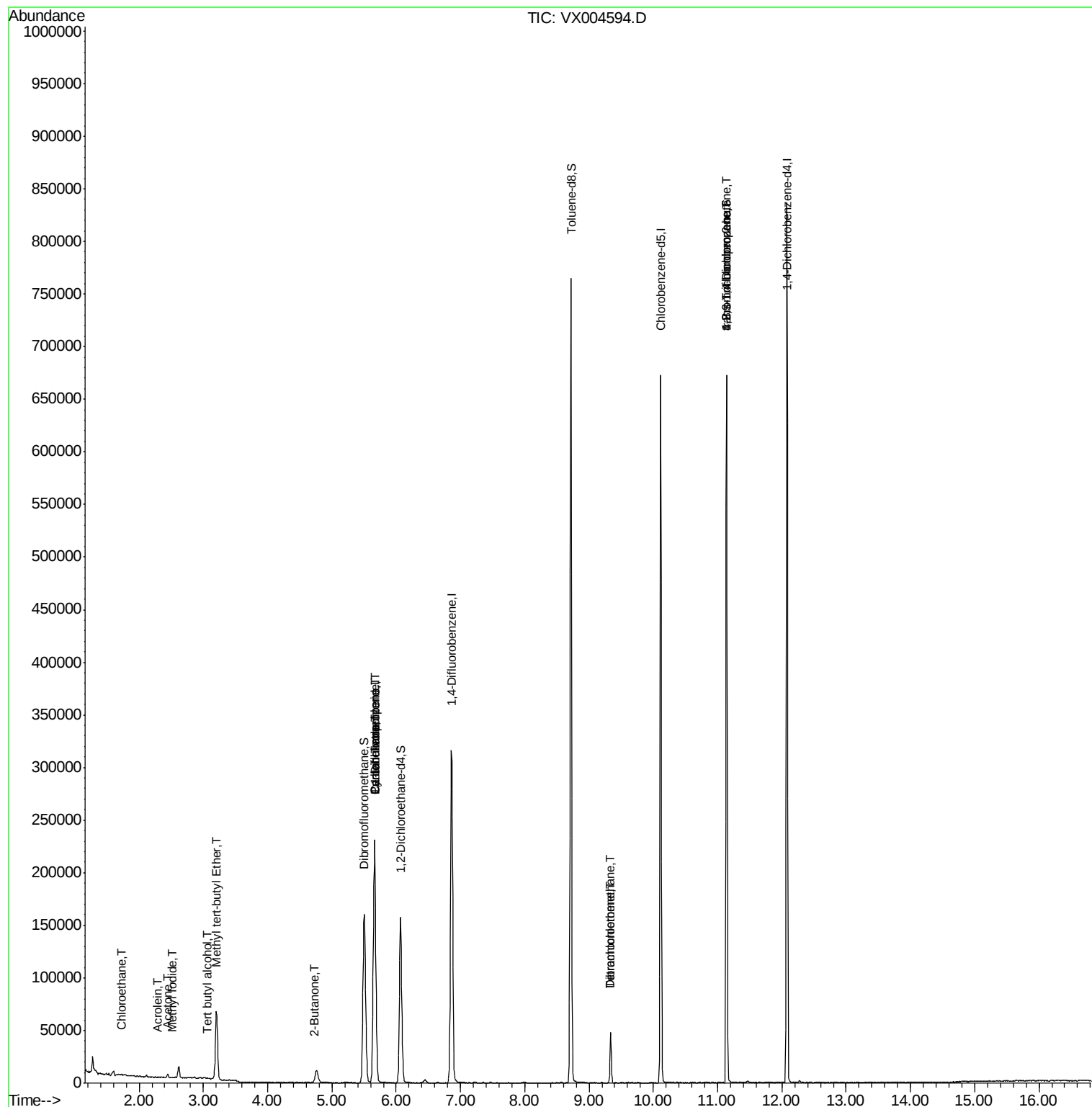
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	492	Below Cal		95
6) Chloroethane	1.71	64	546	0.28	ug/l #	46
10) Methyl Iodide	2.52	142	459	4.39	ug/l #	68
11) Tert butyl alcohol	3.07	59	977	1.37	ug/l #	72
13) Acrolein	2.28	56	67	0.24	ug/l #	1
16) Acetone	2.45	43	3637	2.50	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	74515	8.80	ug/l	98
25) 2-Butanone	4.71	43	488	0.21	ug/l #	47
31) Cyclohexane	5.67	56	3760	0.87	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15259	3.82	ug/l #	50
38) Carbon Tetrachloride	5.66	117	20181	5.17	ug/l #	16
60) Dibromochloromethane	9.34	129	9052	3.20	ug/l #	11
64) Tetrachloroethene	9.34	164	9769	2.47	ug/l	88
76) 1,2,3-Trichloropropane	11.14	75	77875	21.93	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	77875	69.91	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# 741

Delta R.T. 0.01 min

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Instrument :

MSVOA_X

ClientSampleId :

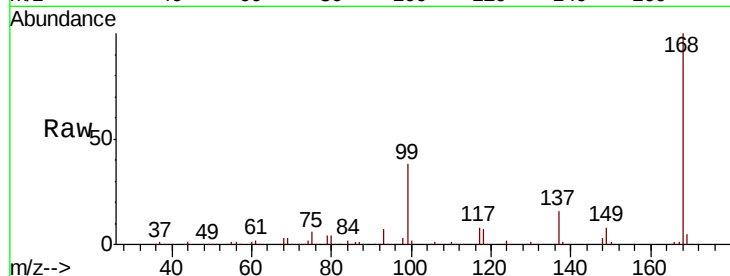
SP-PIT-11-BASELINE-WATER

Tot Ion:168 Resp: 231054

Ion Ratio Lower Upper

168 100

99 38.5 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

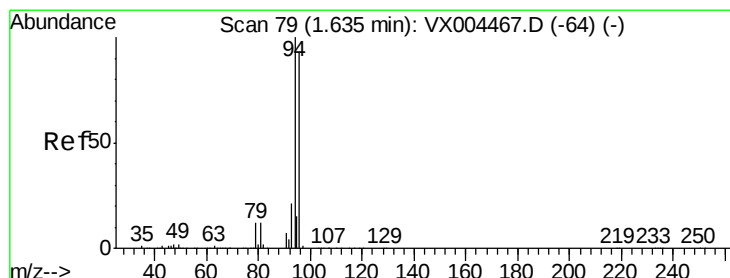
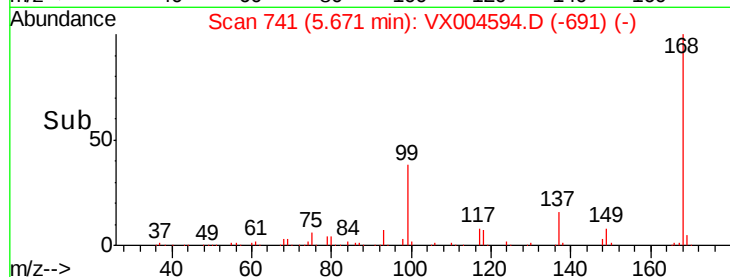
60000

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: VX004594.D

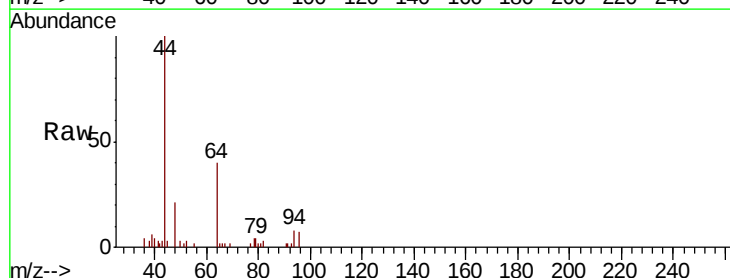
Acq: 15 Sep 2018 19:33

Tgt Ion: 94 Resp: 492

Ion Ratio Lower Upper

94 100

96 88.5 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

250

200

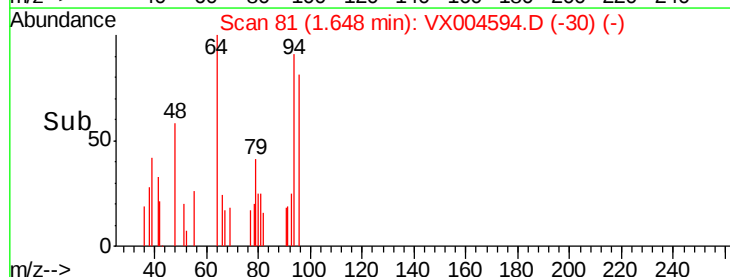
150

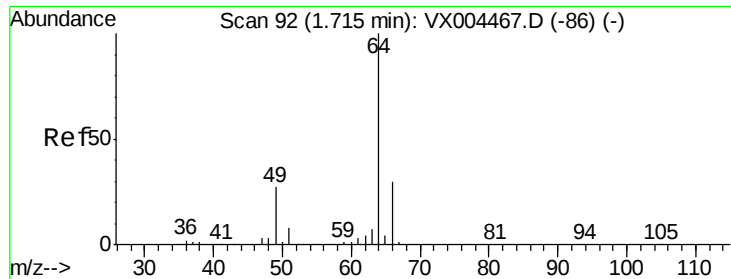
100

50

0

Time--> 1.60 1.62 1.64 1.66 1.68





#6

Chloroethane

Concen: 0.28 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

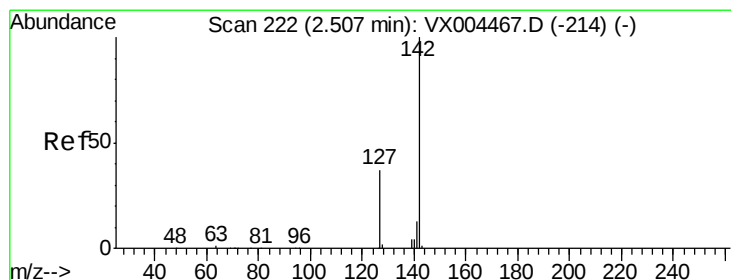
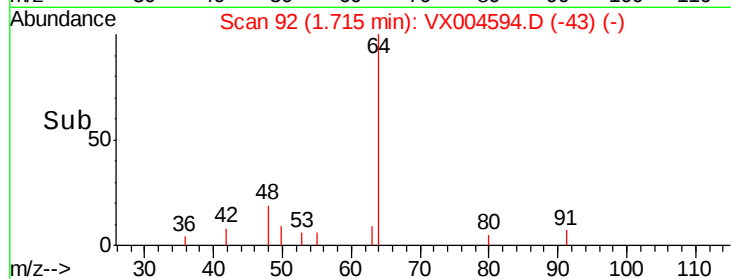
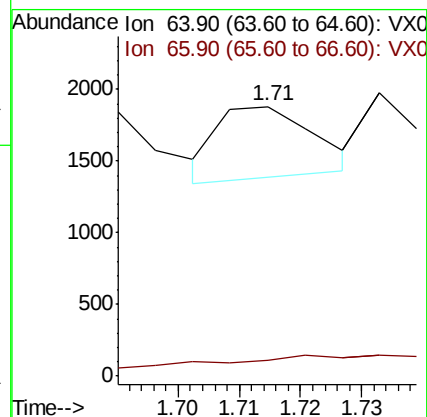
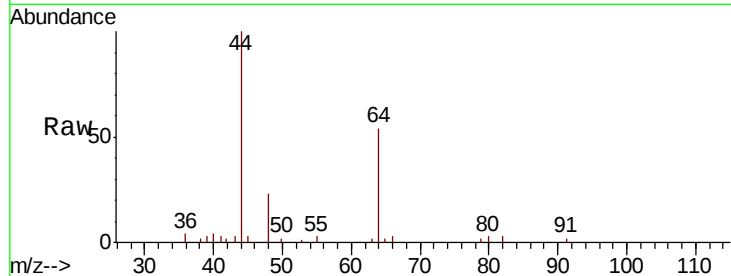
SP-PIT-11-BASELINE-WATER

Tot Ion: 64 Resp: 546

Ion Ratio Lower Upper

64 100

66 1.4 24.6 36.8#



#10

Methyl Iodide

Concen: 4.39 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

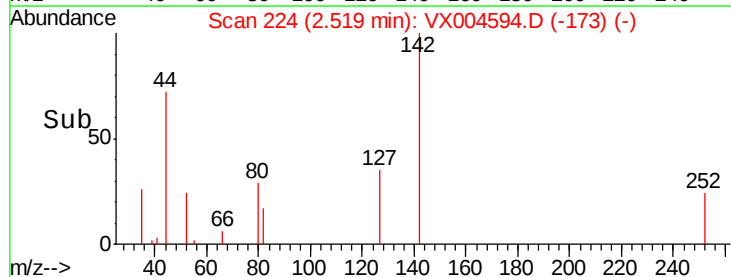
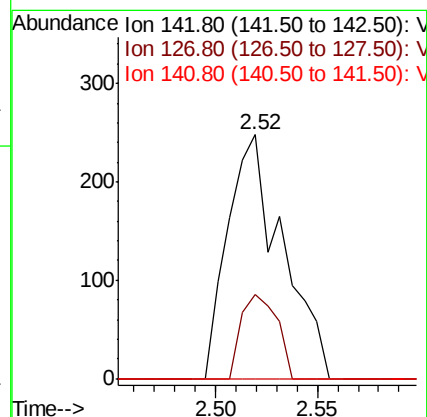
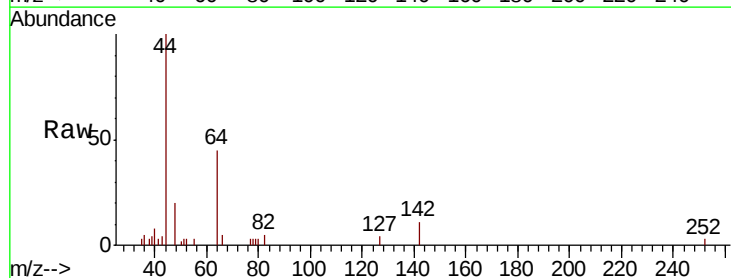
Tgt Ion: 142 Resp: 459

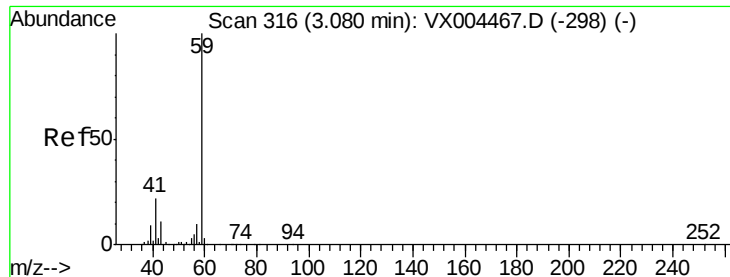
Ion Ratio Lower Upper

142 100

127 22.7 33.8 50.6#

141 0.0 11.4 17.0#

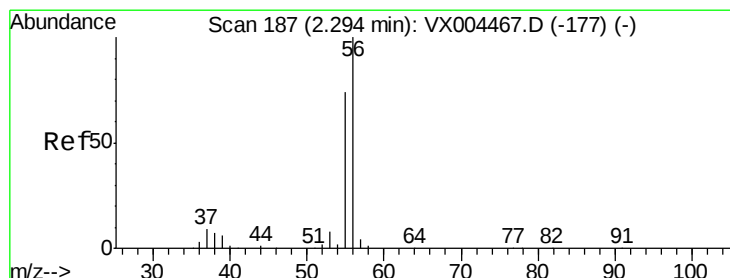
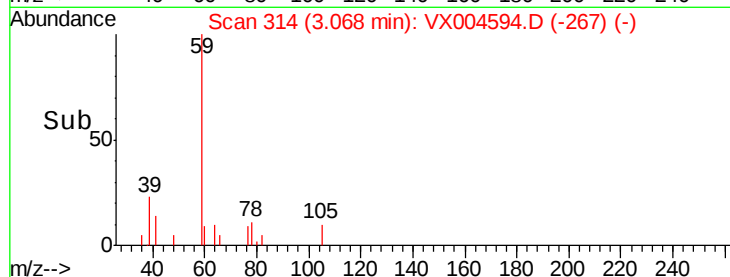
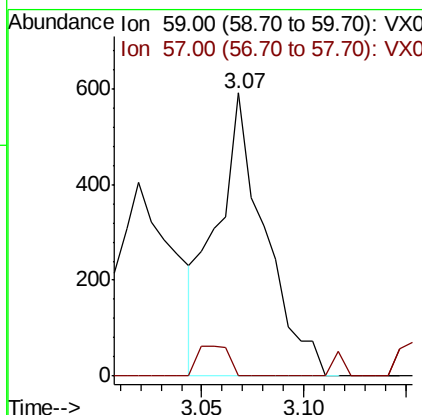
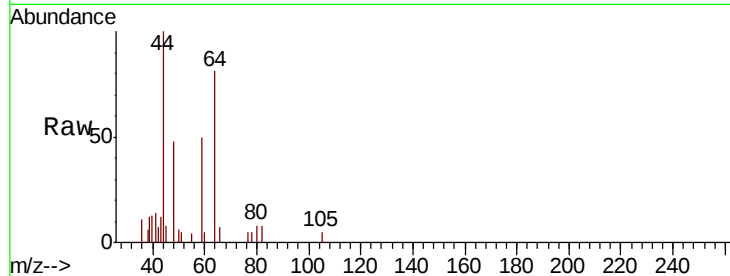




#11
Tert butvl alcohol
Concen: 1.37 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX004594.D
Acq: 15 Sep 2018 19:33

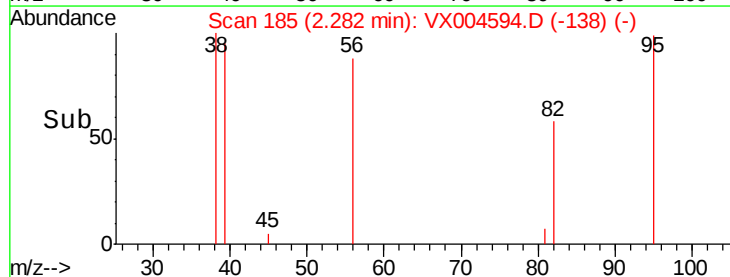
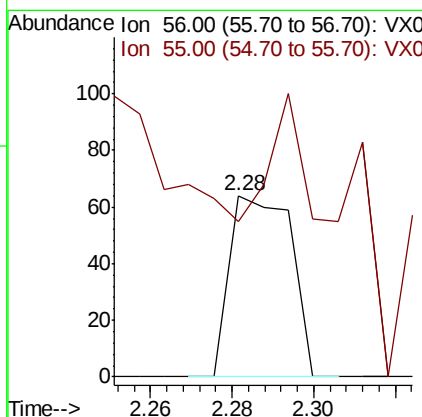
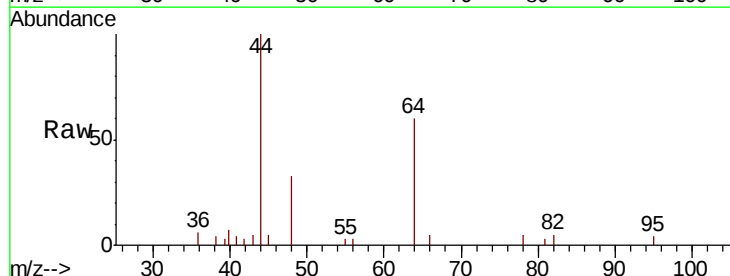
Instrument :
MSVOA_X
ClientSampleId :
SP-PIT-11-BASELINE-WATER

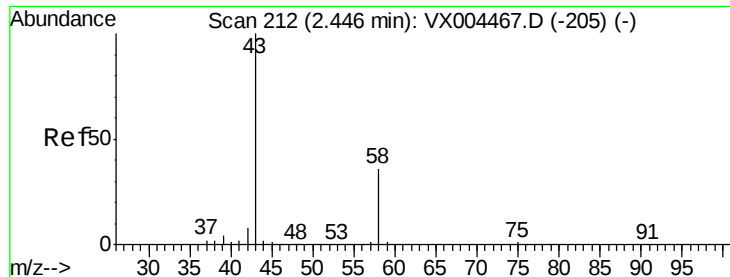
Tot Ion: 59 Resp: 977
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 0.24 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX004594.D
Acq: 15 Sep 2018 19:33

Tgt Ion: 56 Resp: 67
Ion Ratio Lower Upper
56 100
55 228.4 54.7 82.1#

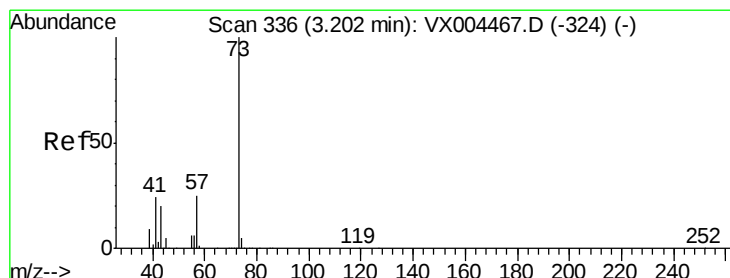
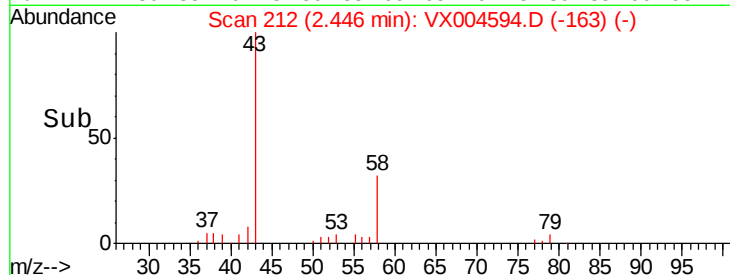
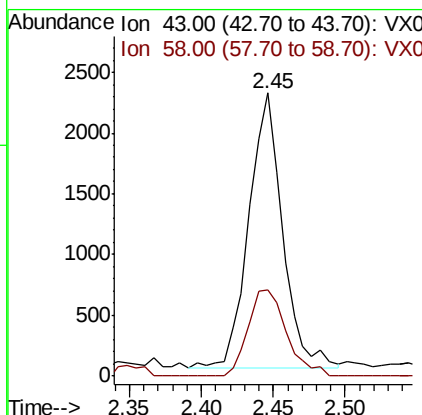
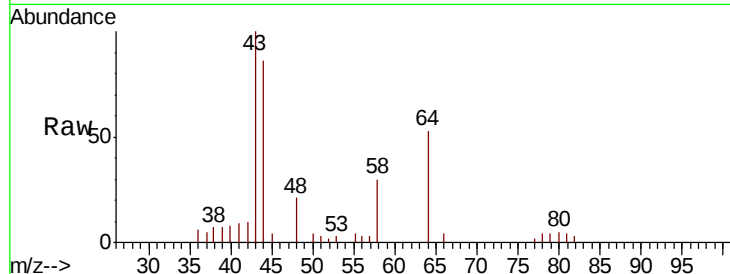




#16
 Acetone
 Concen: 2.50 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX004594.D
 Acq: 15 Sep 2018 19:33

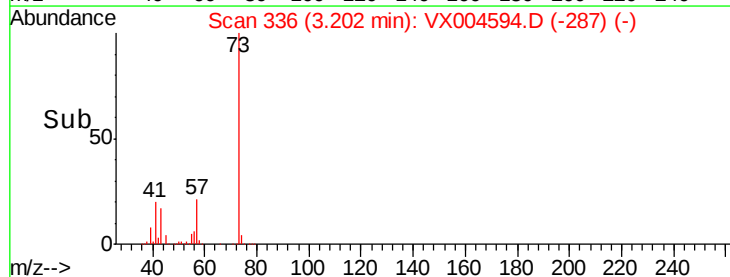
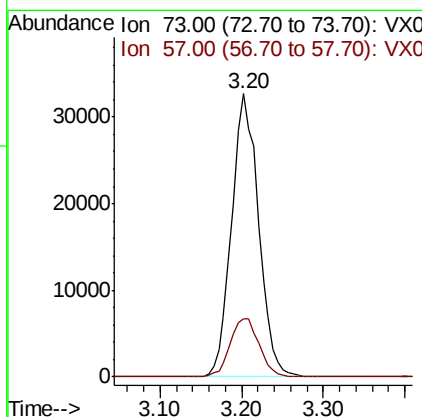
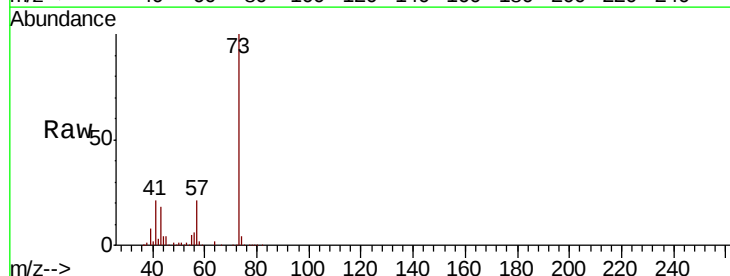
Instrument :
 MSVOA_X
 ClientSampleId :
 SP-PIT-11-BASELINE-WATER

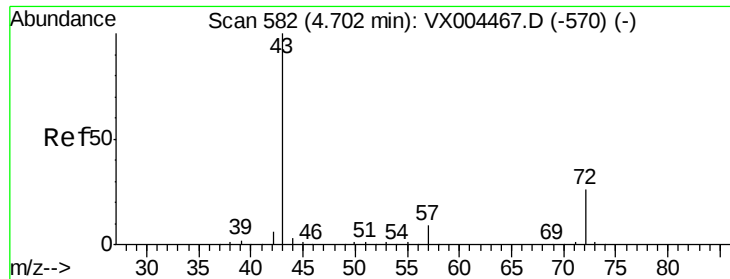
Tot Ion: 43 Resp: 3637
 Ion Ratio Lower Upper
 43 100
 58 31.2 26.2 39.4



#19
 Methyl tert-butyl Ether
 Concen: 8.80 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX004594.D
 Acq: 15 Sep 2018 19:33

Tgt Ion: 73 Resp: 74515
 Ion Ratio Lower Upper
 73 100
 57 20.7 17.1 25.7





#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

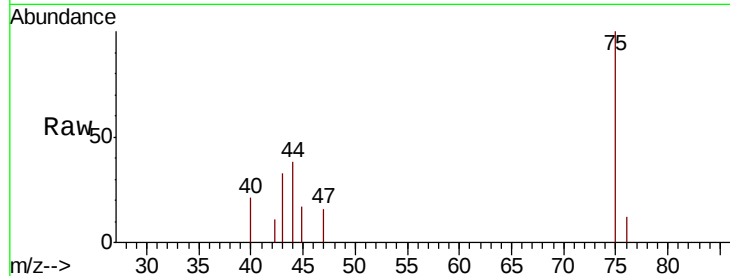
SP-PIT-11-BASELINE-WATER

Tot Ion: 43 Resp: 488

Ion Ratio Lower Upper

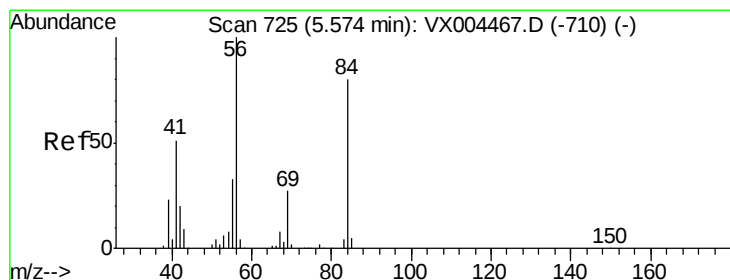
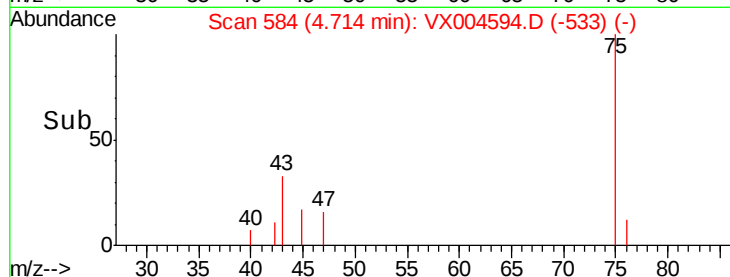
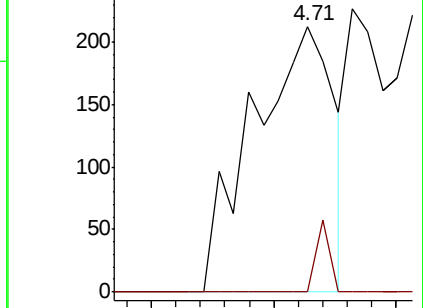
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 0.87 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

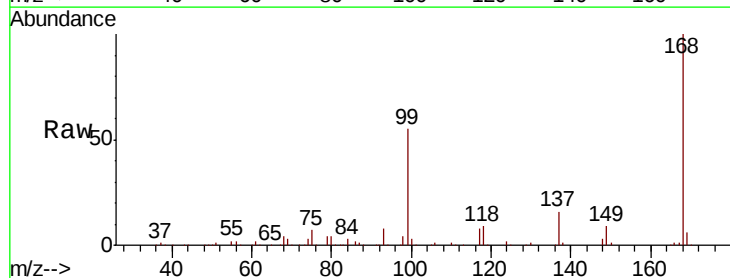
Tgt Ion: 56 Resp: 3760

Ion Ratio Lower Upper

56 100

69 172.1 25.4 38.2#

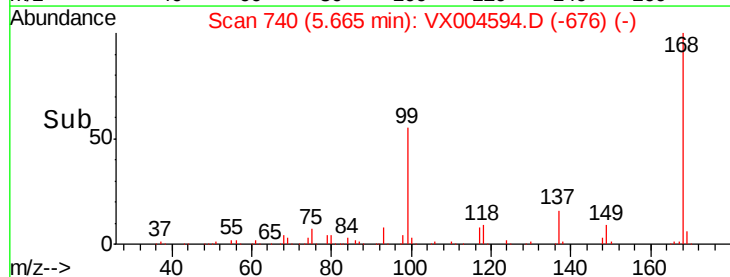
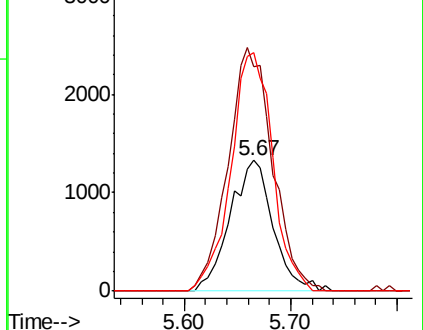
84 183.1 71.4 107.2#

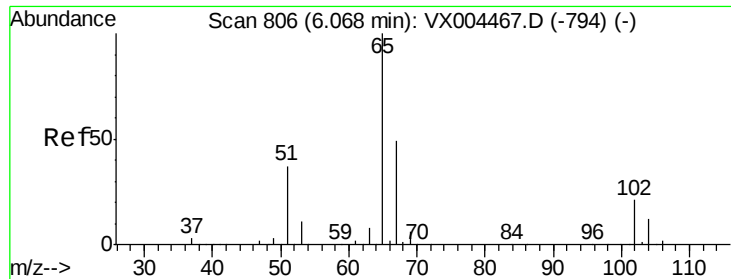


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.66 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

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MSVOA_X

ClientSampleId :

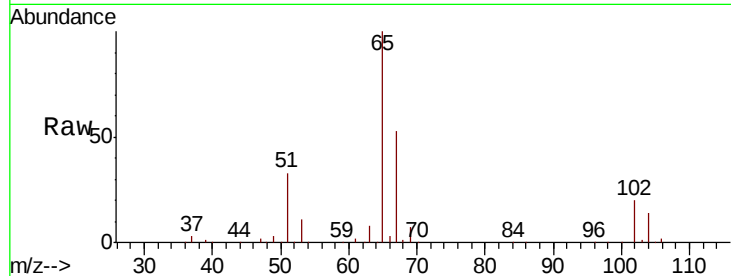
SP-PIT-11-BASELINE-WATER

Tot Ion: 65 Resp: 144980

Ion Ratio Lower Upper

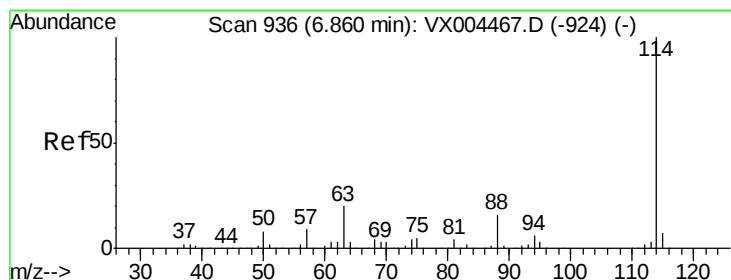
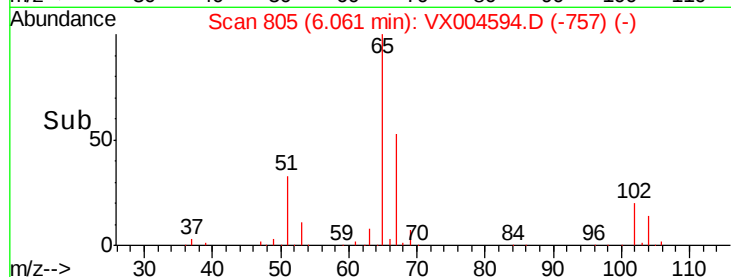
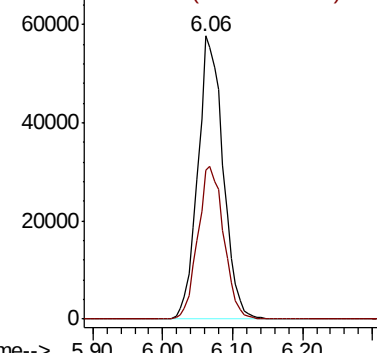
65 100

67 55.4 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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

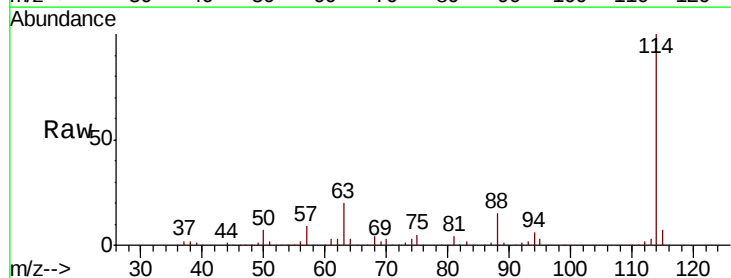
Tgt Ion: 114 Resp: 329249

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

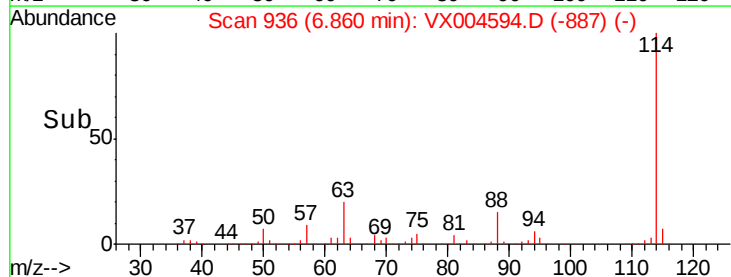
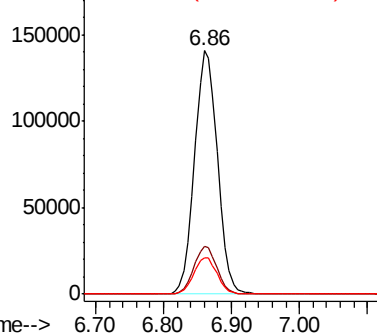
88 14.7 0.0 30.4

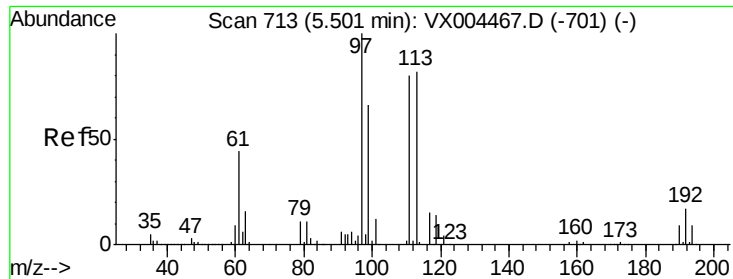


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

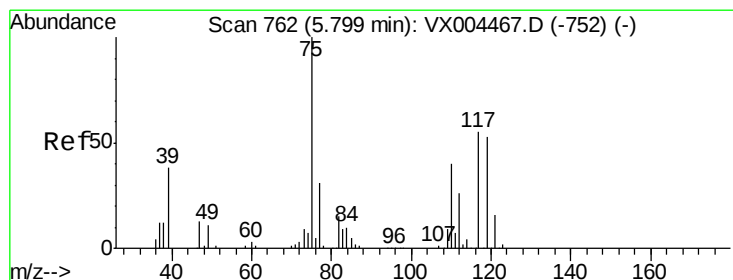
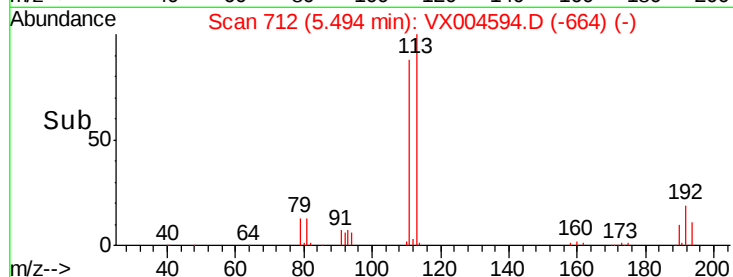
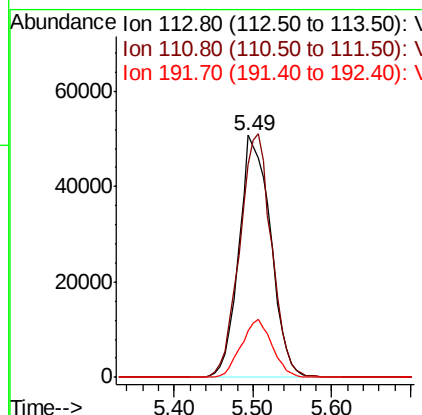
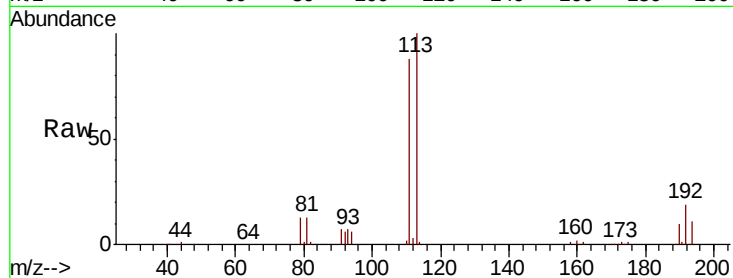




#35
 Dibromofluoromethane
 Concen: 47.26 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. -0.01 min
 Lab File: VX004594.D
 Acq: 15 Sep 2018 19:33

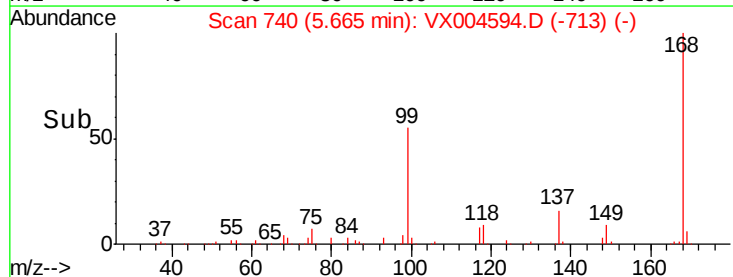
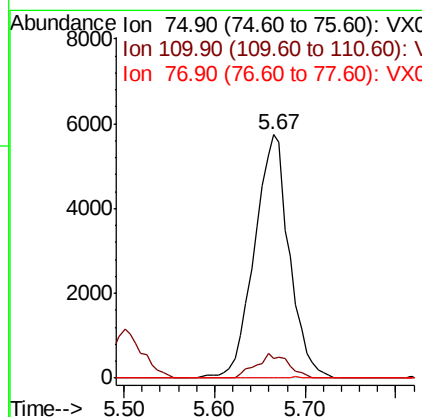
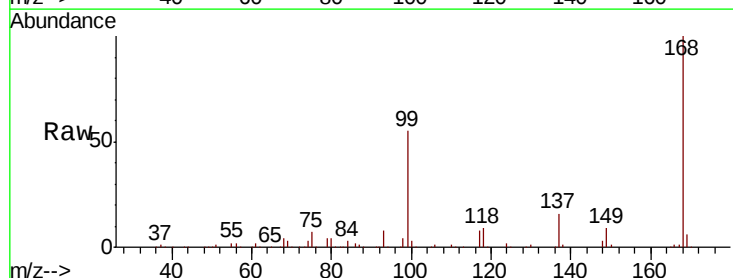
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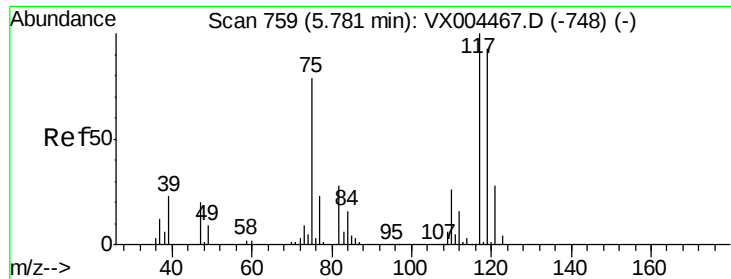
Tot Ion:113 Resp: 142381
 Ion Ratio Lower Upper
 113 100
 111 101.0 82.4 123.6
 192 23.3 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 3.82 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX004594.D
 Acq: 15 Sep 2018 19:33

Tgt Ion: 75 Resp: 15259
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.0 54.0#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.17 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

SP-PIT-11-BASELINE-WATER

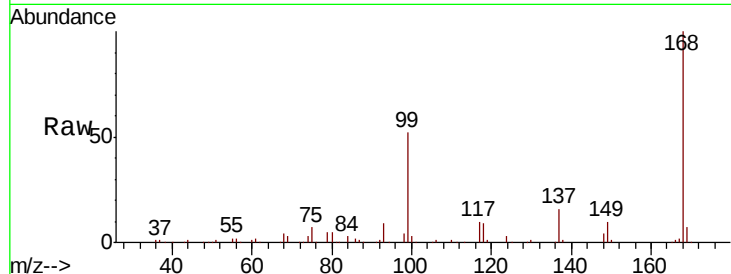
Tot Ion:117 Resp: 20181

Ion Ratio Lower Upper

117 100

119 7.2 78.8 118.2#

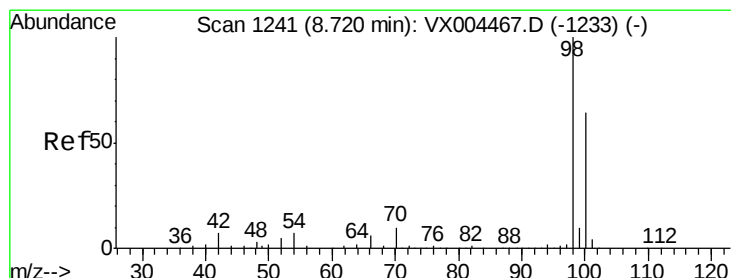
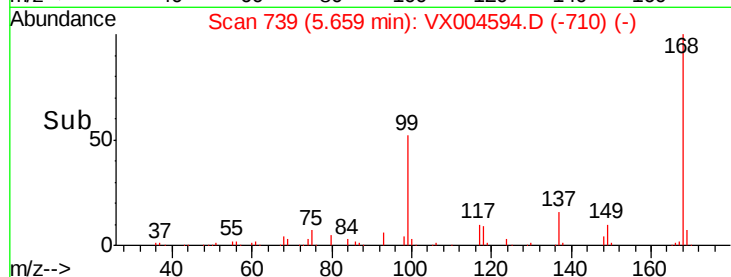
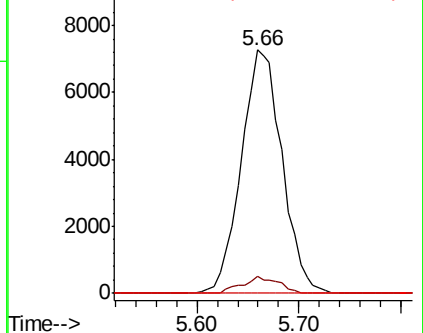
121 0.0 24.9 37.3#



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



#50

Toluene-d8

Concen: 46.47 ug/l

RT: 8.72 min Scan# 1241

Delta R.T. -0.00 min

Lab File: VX004594.D

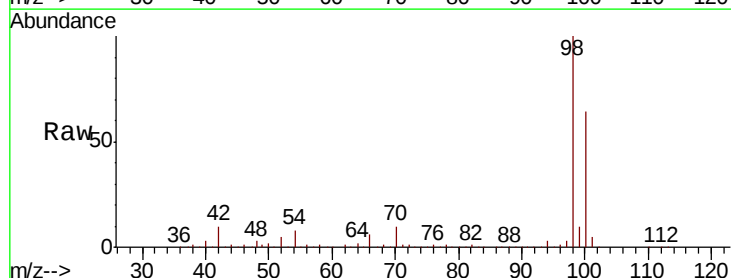
Acq: 15 Sep 2018 19:33

Tgt Ion: 98 Resp: 469531

Ion Ratio Lower Upper

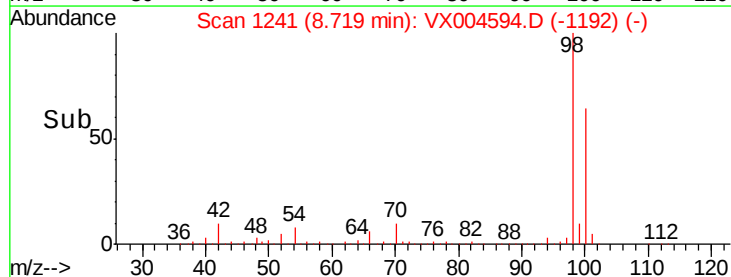
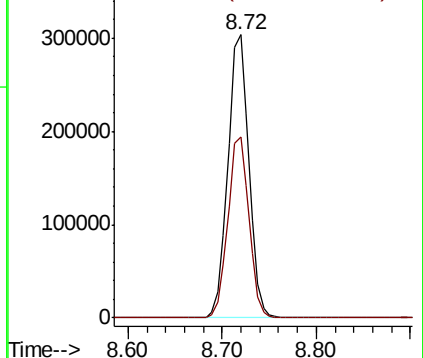
98 100

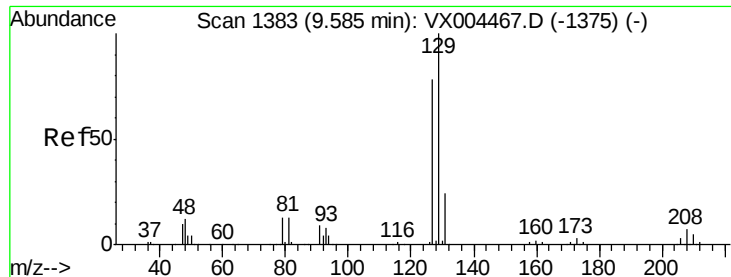
100 64.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

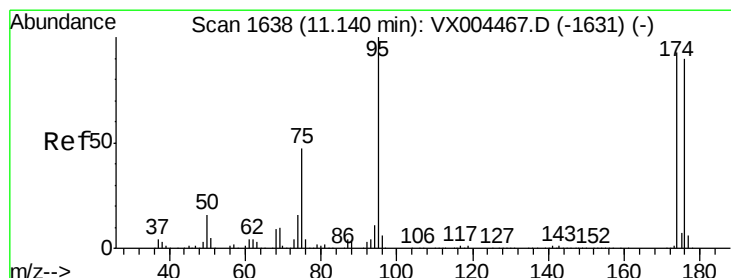
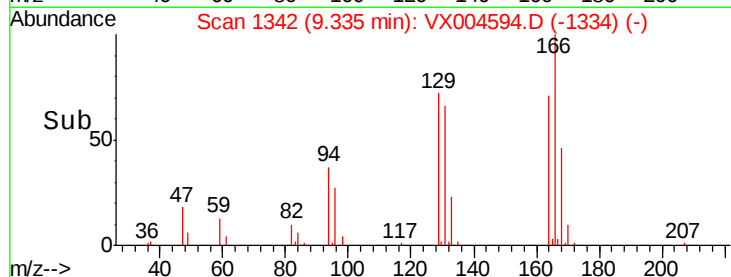
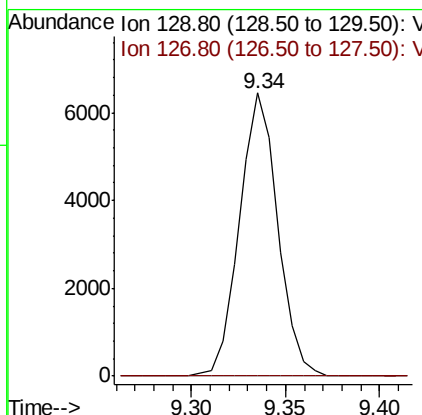
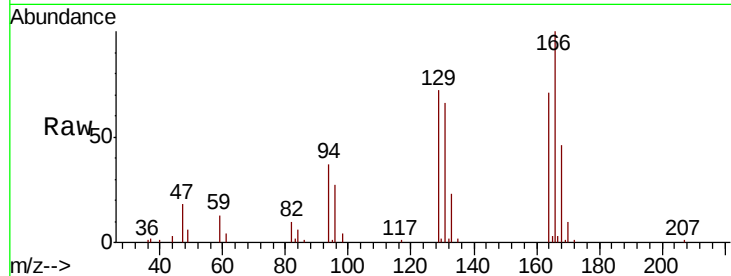




#60
Dibromochloromethane
Concen: 3.20 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.25 min
Lab File: VX004594.D
Acq: 15 Sep 2018 19:33

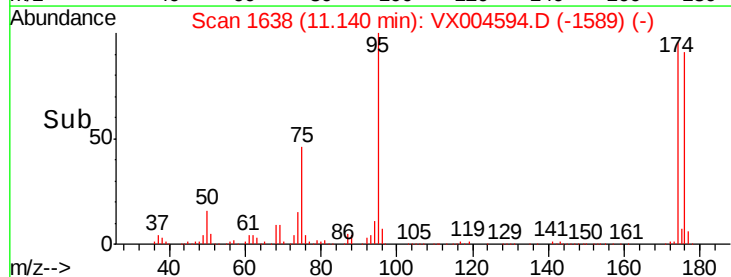
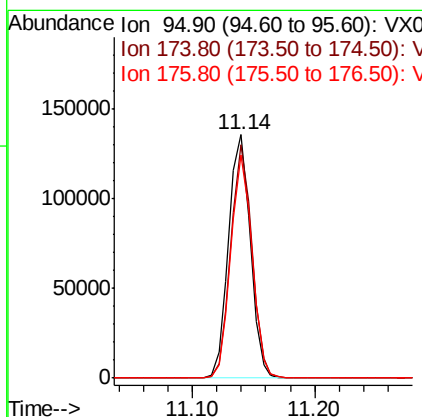
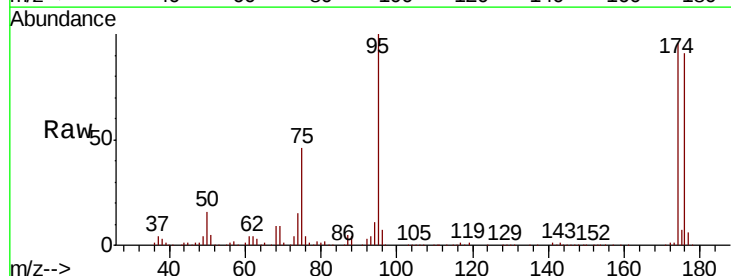
Instrument :
MSVOA_X
ClientSampleId :
SP-PIT-11-BASELINE-WATER

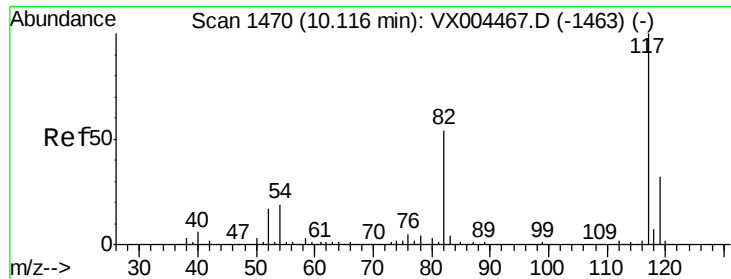
Tot Ion:129 Resp: 9052
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 46.13 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004594.D
Acq: 15 Sep 2018 19:33

Tgt Ion: 95 Resp: 166376
Ion Ratio Lower Upper
95 100
174 93.3 0.0 185.2
176 89.4 0.0 178.6

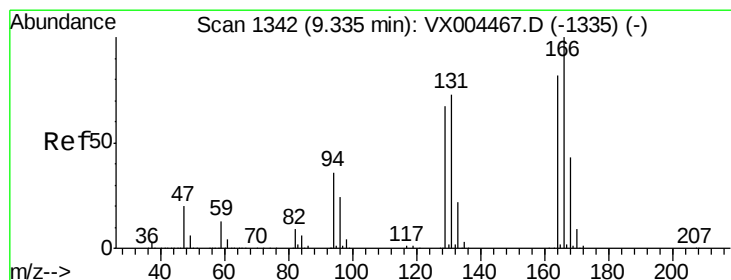
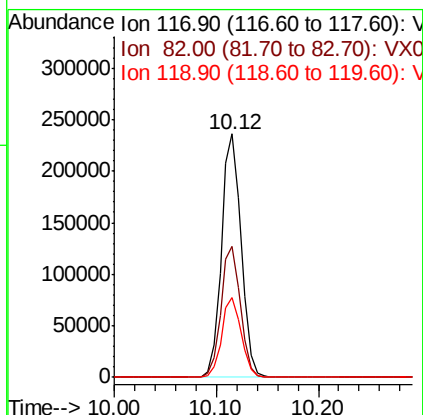
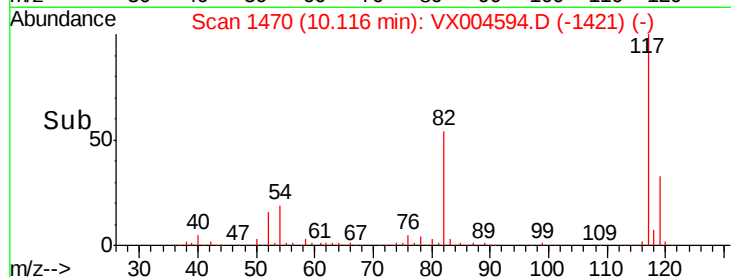
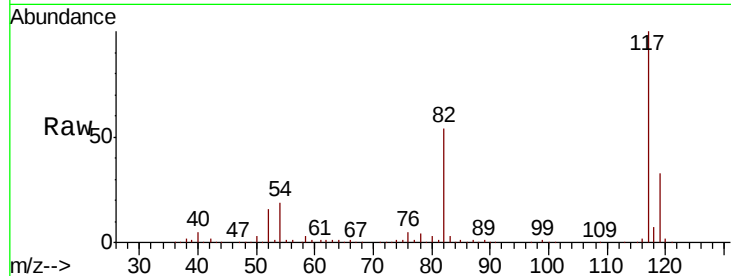




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004594.D
Acq: 15 Sep 2018 19:33

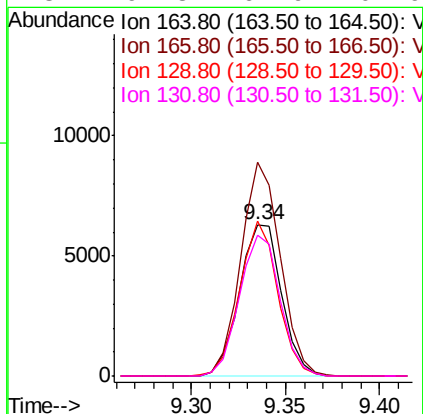
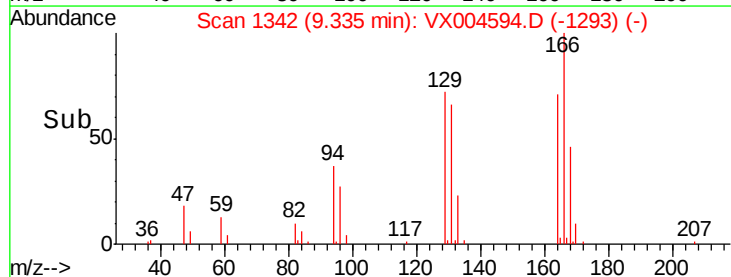
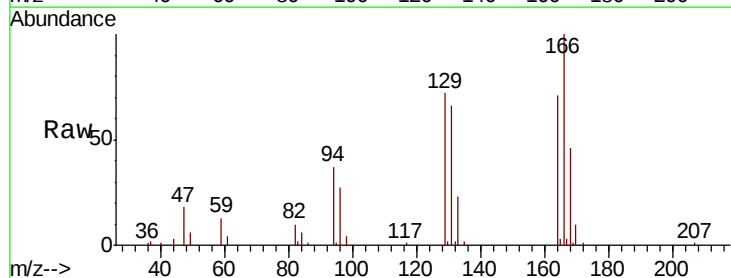
Instrument :
MSVOA_X
ClientSampleId :
SP-PIT-11-BASELINE-WATER

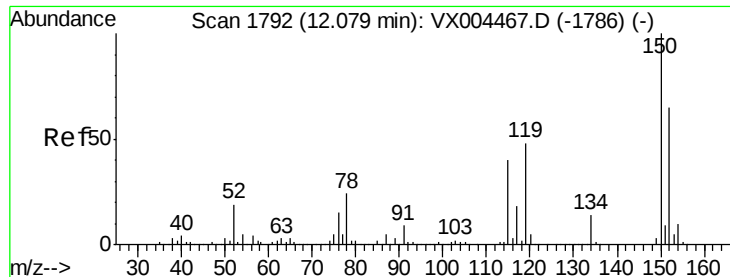
Tot Ion:117 Resp: 316779
Ion Ratio Lower Upper
117 100
82 54.0 47.8 71.6
119 32.7 29.3 43.9



#64
Tetrachloroethene
Concen: 2.47 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX004594.D
Acq: 15 Sep 2018 19:33

Tgt Ion:164 Resp: 9769
Ion Ratio Lower Upper
164 100
166 140.8 102.8 154.2
129 102.0 69.4 104.0
131 92.8 67.9 101.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

SP-PIT-11-BASELINE-WATER

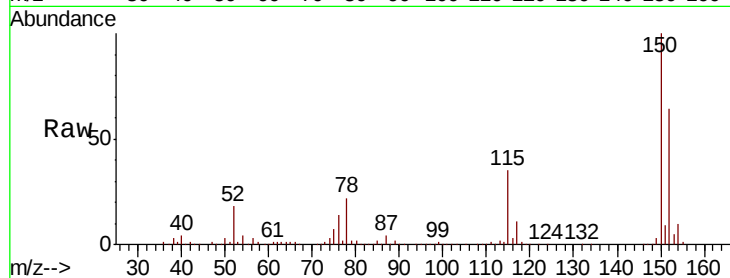
Tot Ion:152 Resp: 176473

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

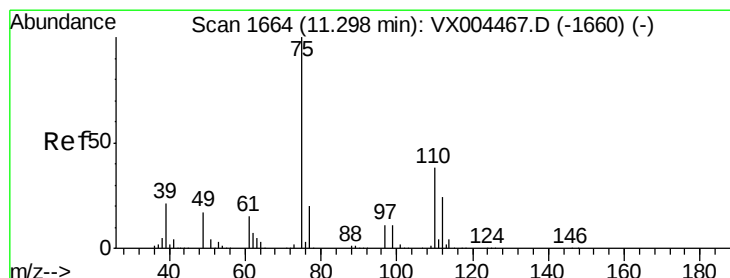
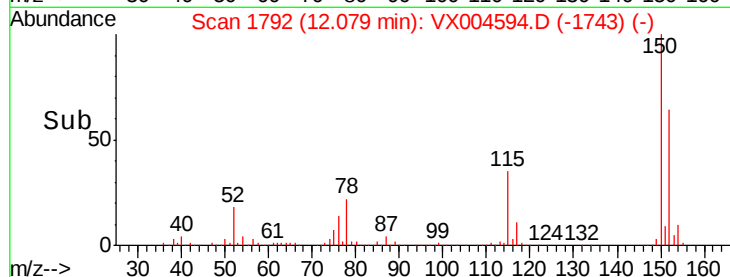
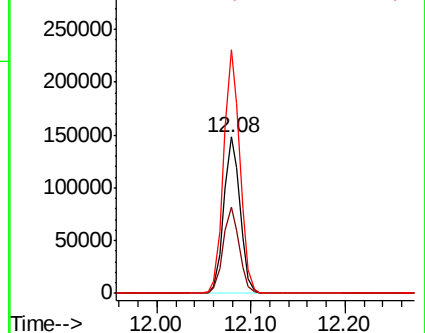
150 155.0 0.0 351.0



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: 21.93 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004594.D

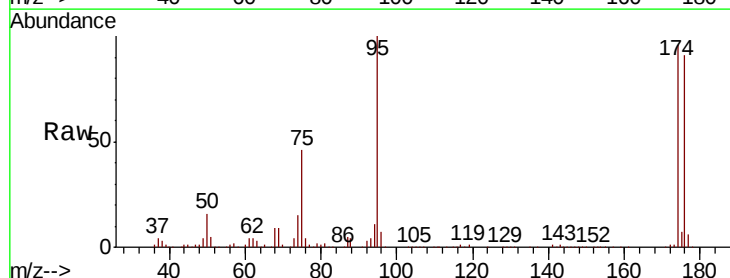
Acq: 15 Sep 2018 19:33

Tgt Ion: 75 Resp: 77875

Ion Ratio Lower Upper

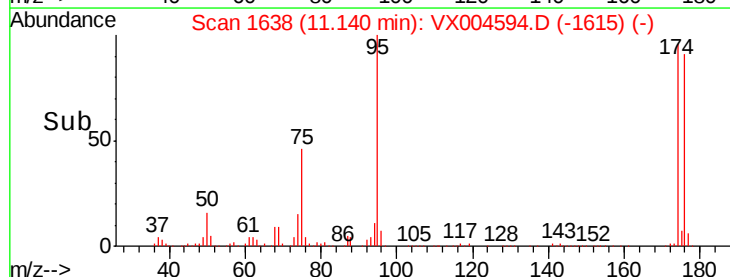
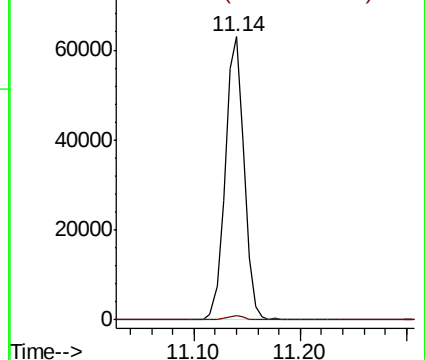
75 100

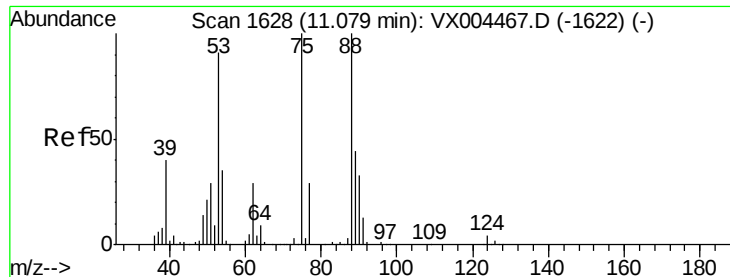
77 1.3 20.2 60.6#



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: 69.91 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004594.D

Acq: 15 Sep 2018 19:33

Instrument :

MSVOA_X

ClientSampleId :

SP-PIT-11-BASELINE-WATER

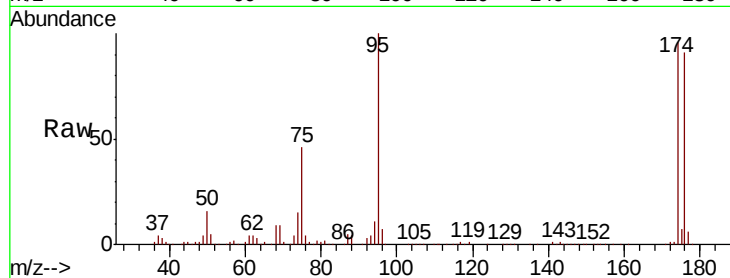
Tot Ion: 75 Resp: 77875

Ion Ratio Lower Upper

75 100

53 0.1 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

