

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011434.D
 Acq On : 11 Aug 2019 16:15
 Operator : JC/SP
 Sample : K4228-33
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-11-(0)

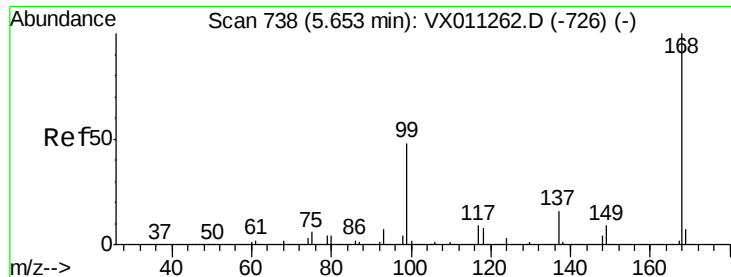
Quant Time: Aug 12 07:49:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	203180	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	301774	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	276857	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	122630	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	107811	52.69	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	5.49	113	93066	47.24	ug/l	0.00
Spiked Amount						
50) Toluene-d8	8.71	98	358863	48.25	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	11.13	95	118622	44.68	ug/l	0.00
Spiked Amount						

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	514	0.372	ug/l	85
6) Chloroethane	1.79	64	208	Below Cal		91
8) Diethyl Ether	2.18	74	537	0.436	ug/l	78
11) Tert butyl alcohol	3.01	59	4358	10.703	ug/l #	76
13) Acrolein	2.33	56	27	Below Cal	#	1
16) Acetone	2.43	43	8662	8.894	ug/l	97
18) Methyl Acetate	2.76	43	1790	0.804	ug/l	93
20) Methylene Chloride	2.85	84	5139	2.409	ug/l	96
25) 2-Butanone	4.68	43	973	0.702	ug/l	97
31) Cyclohexane	5.65	56	3876	1.471	ug/l #	11
36) 1,1-Dichloropropene	5.65	75	14404	5.467	ug/l #	48
38) Carbon Tetrachloride	5.66	117	19166	7.230	ug/l #	16
41) Methacrylonitrile	5.01	41	368	0.255	ug/l #	20
43) Isopropyl Acetate	6.45	43	8001	1.894	ug/l	98
48) Methyl methacrylate	7.68	41	3446	1.733	ug/l #	10
49) 1,4-Dioxane	7.84	88	55	0.954	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	42014	15.407	ug/l #	49
53) t-1,3-Dichloropropene	9.04	75	22	2.845	ug/l #	43
54) cis-1,3-Dichloropropene	8.61	75	20930	7.119	ug/l #	69
57) 1,3-Dichloropropane	9.54	76	4863	1.439	ug/l #	45
59) 2-Hexanone	9.54	43	66380	31.428	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	60211	26.961	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60211	70.002	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011434.D

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ClientSampleId :

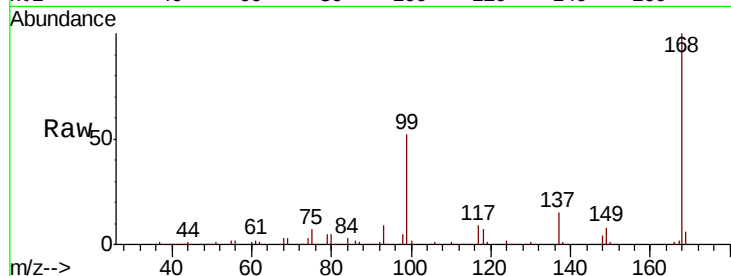
2S-11-(0)

Tgt Ion:168 Resp: 203180

Ion Ratio Lower Upper

168 100

99 51.8 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

60000

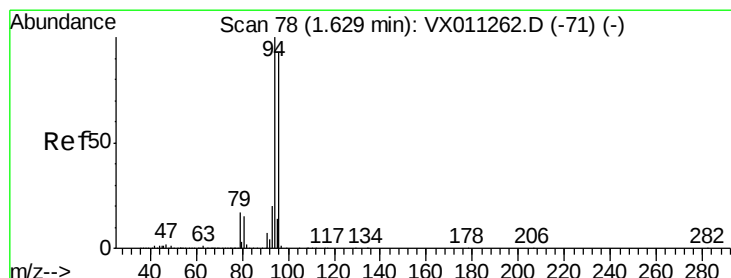
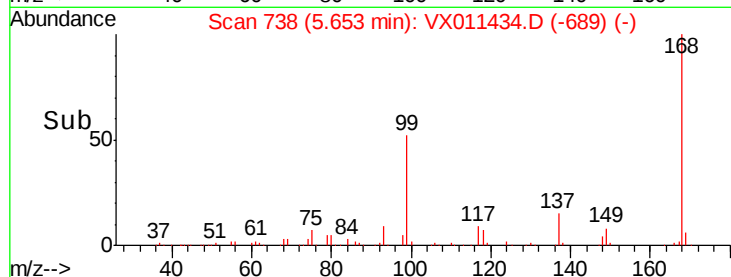
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.372 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011434.D

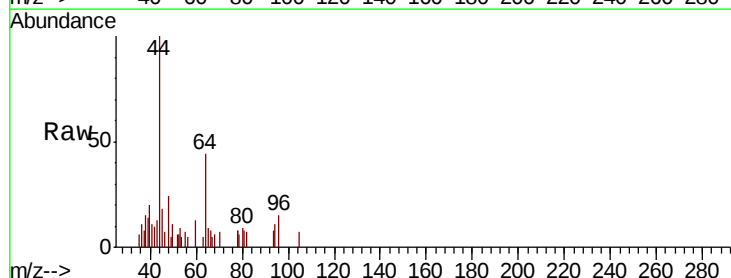
Acq: 11 Aug 2019 16:15

Tgt Ion: 94 Resp: 514

Ion Ratio Lower Upper

94 100

96 79.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

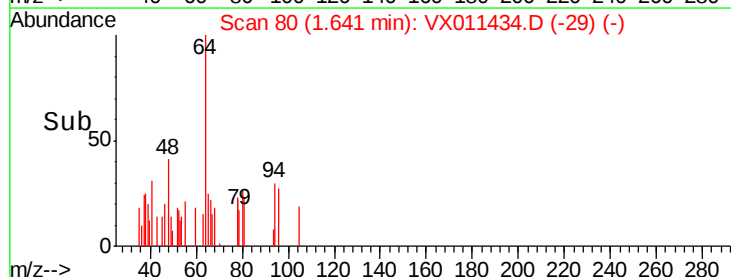
100

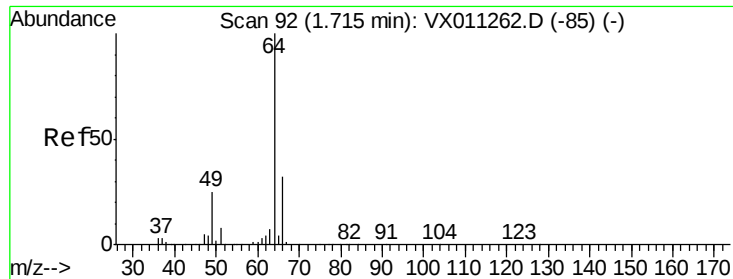
50

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.79 min Scan# 105

Delta R.T. 0.08 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

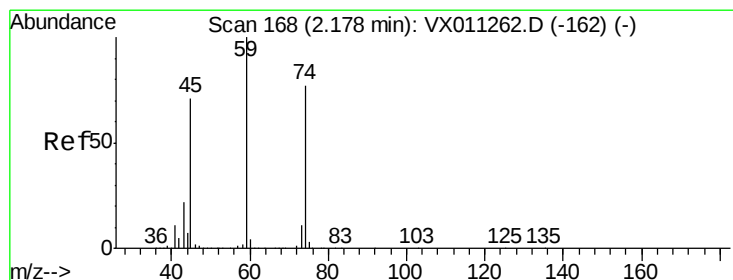
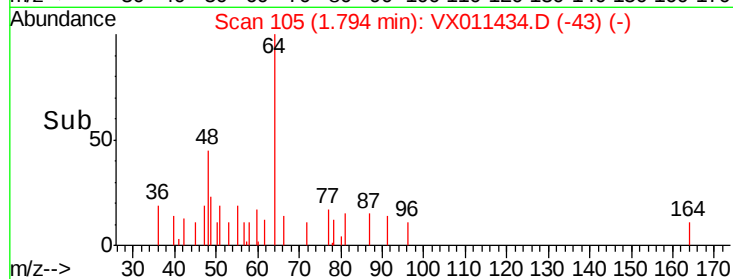
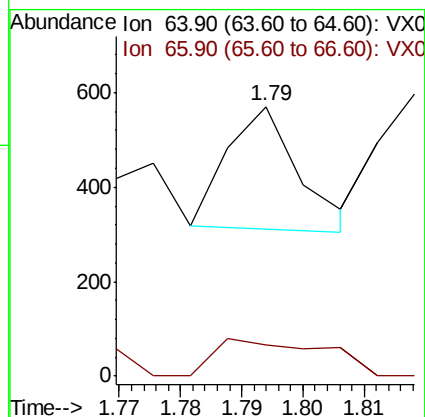
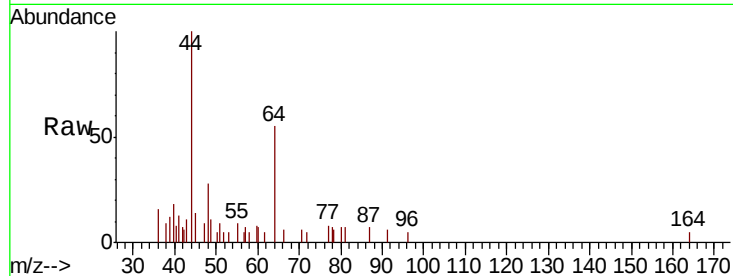
2S-11-(0)

Tgt Ion: 64 Resp: 208

Ion Ratio Lower Upper

64 100

66 26.4 25.1 37.7



#8

Diethyl Ether

Concen: 0.436 ug/l

RT: 2.18 min Scan# 168

Delta R.T. 0.00 min

Lab File: VX011434.D

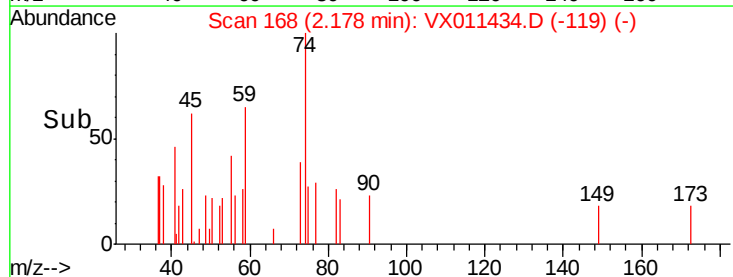
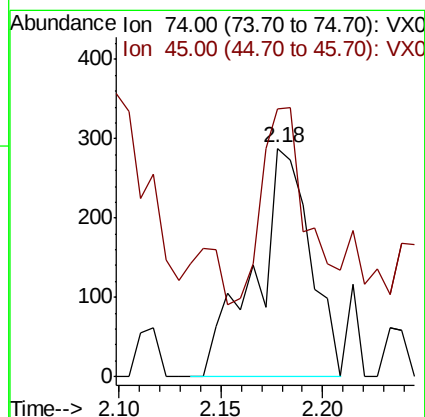
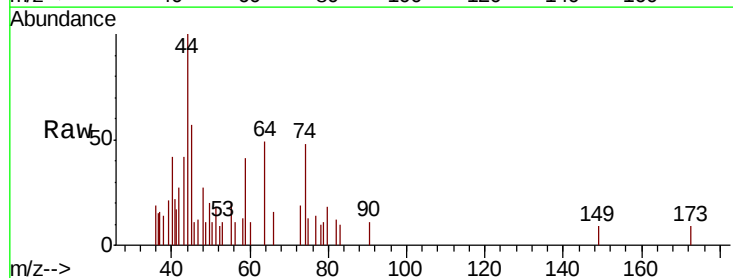
Acq: 11 Aug 2019 16:15

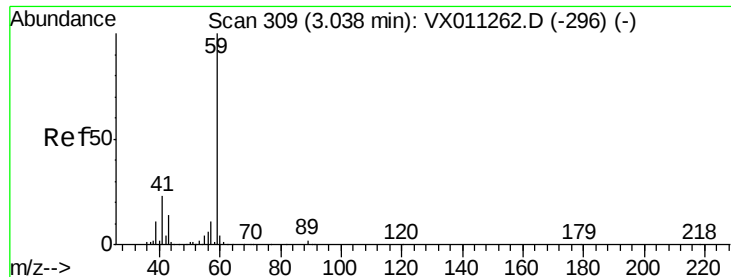
Tgt Ion: 74 Resp: 537

Ion Ratio Lower Upper

74 100

45 70.8 46.1 138.3

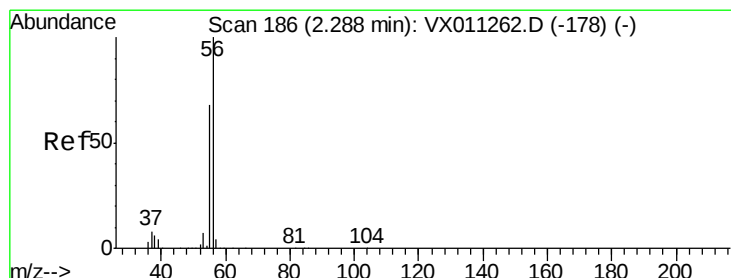
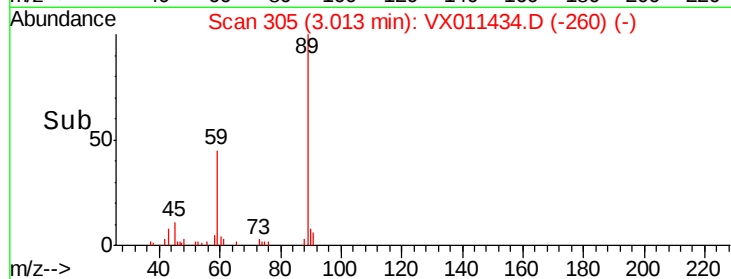
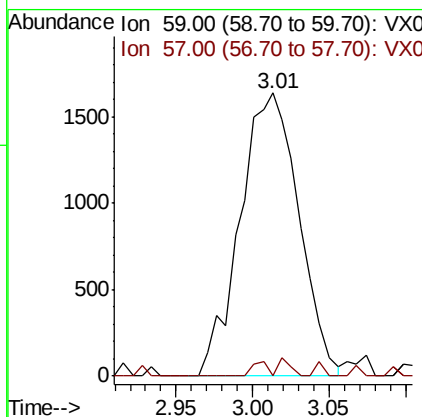
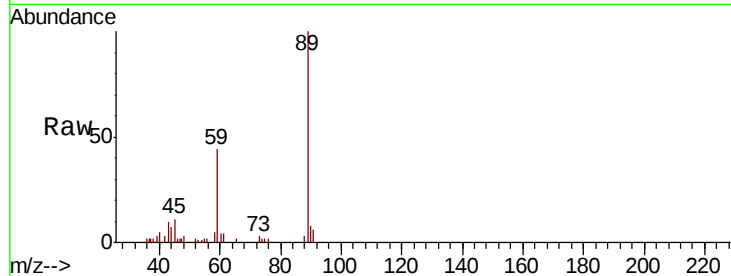




#11
Tert butyl alcohol
Concen: 10.703 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.02 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

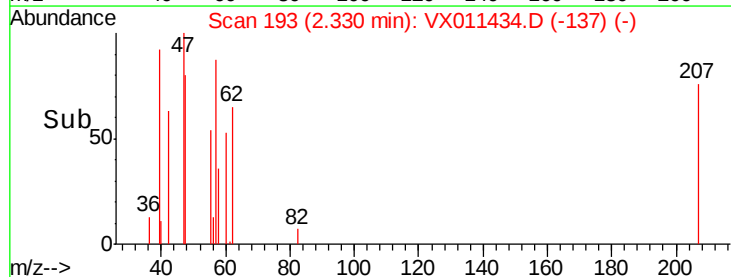
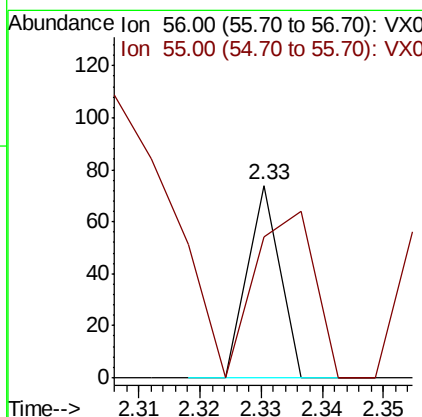
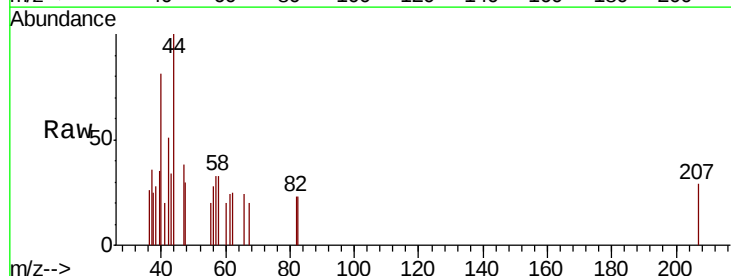
Instrument :
MSVOA_X
ClientSampled :
2S-11-(0)

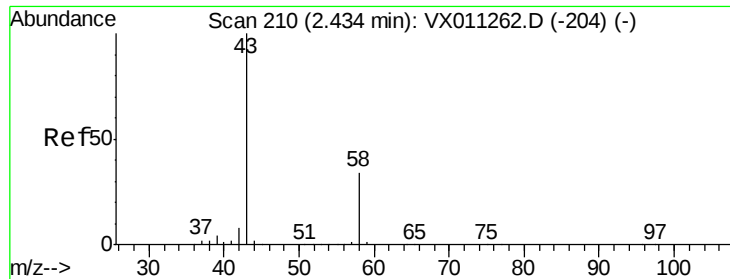
Tgt Ion: 59 Resp: 4358
Ion Ratio Lower Upper
59 100
57 1.2 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 2.33 min Scan# 193
Delta R.T. 0.04 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

Tgt Ion: 56 Resp: 27
Ion Ratio Lower Upper
56 100
55 159.3 56.0 84.0#





#16

Acetone

Concen: 8.894 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

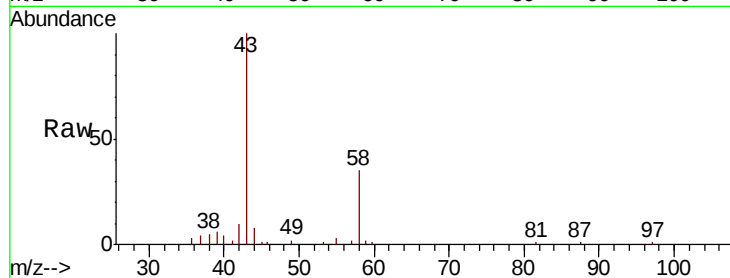
2S-11-(0)

Tgt Ion: 43 Resp: 8662

Ion Ratio Lower Upper

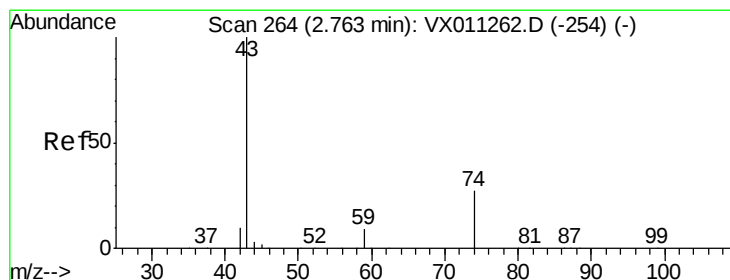
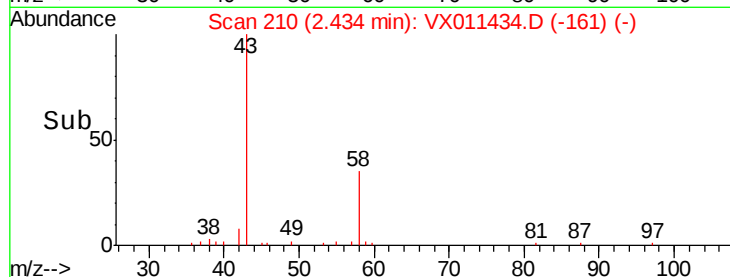
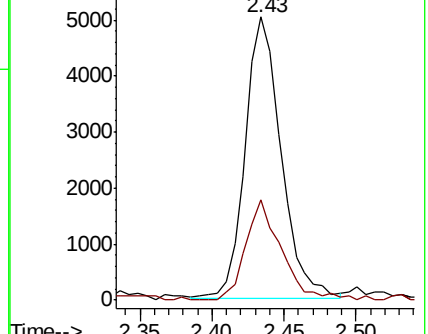
43 100

58 35.8 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.804 ug/l

RT: 2.76 min Scan# 264

Delta R.T. 0.00 min

Lab File: VX011434.D

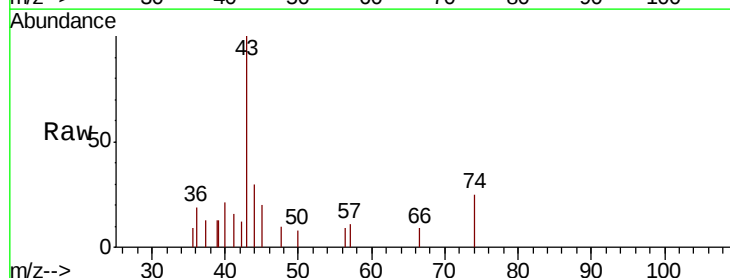
Acq: 11 Aug 2019 16:15

Tgt Ion: 43 Resp: 1790

Ion Ratio Lower Upper

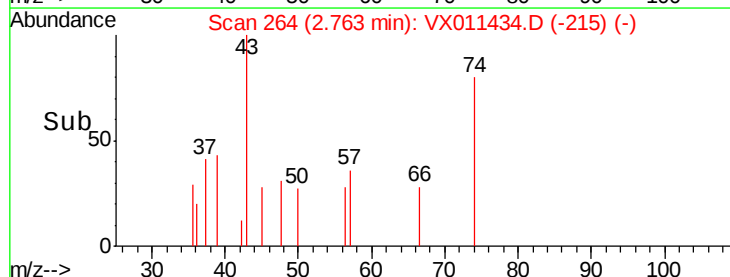
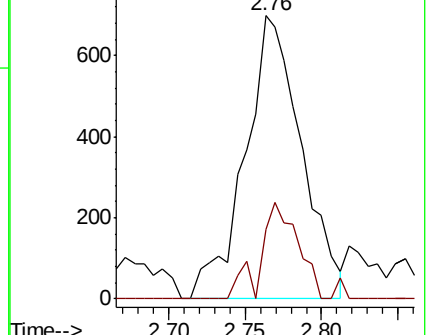
43 100

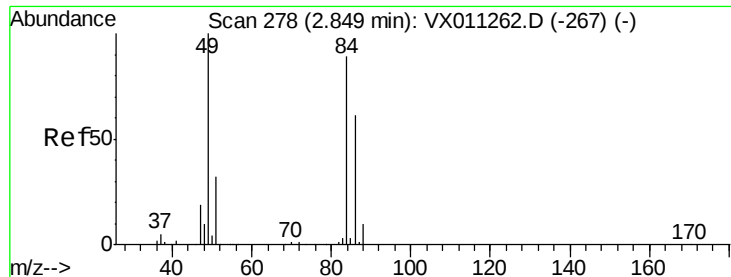
74 22.9 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

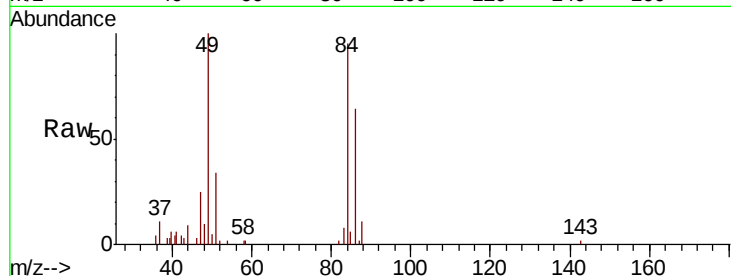




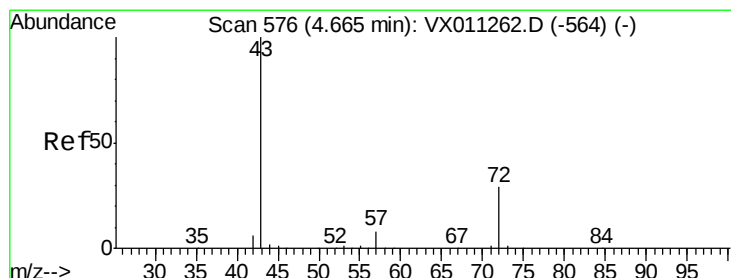
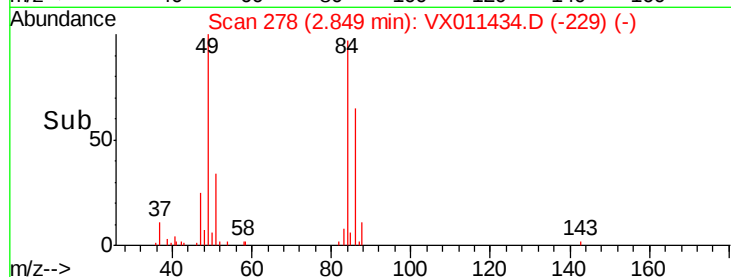
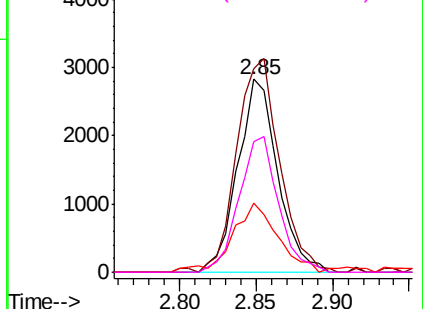
#20
Methylene Chloride
Concen: 2.409 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

Instrument :
MSVOA_X
ClientSampleId :
2S-11-(0)

Tgt Ion:	84	Resp:	5139
Ion	Ratio	Lower	Upper
84	100		
49	105.4	89.3	133.9
51	33.6	28.3	42.5
86	67.6	54.5	81.7

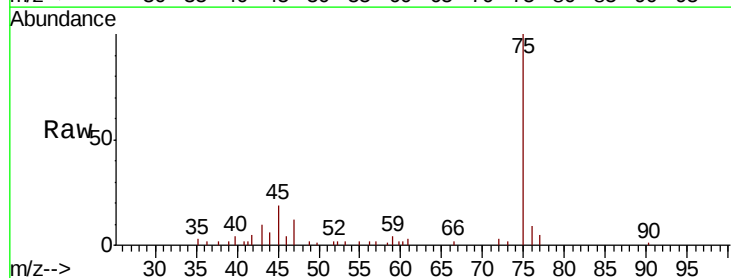


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

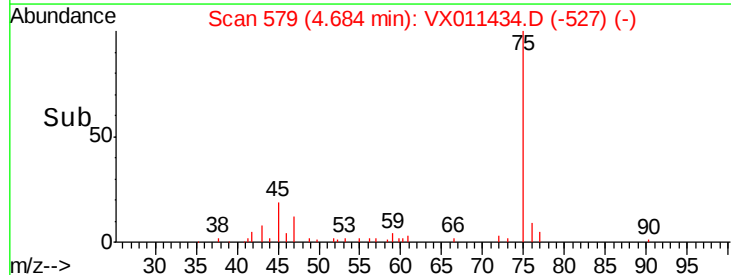
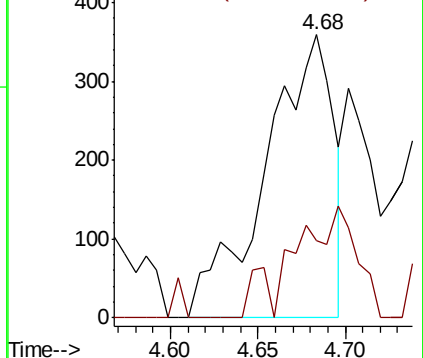


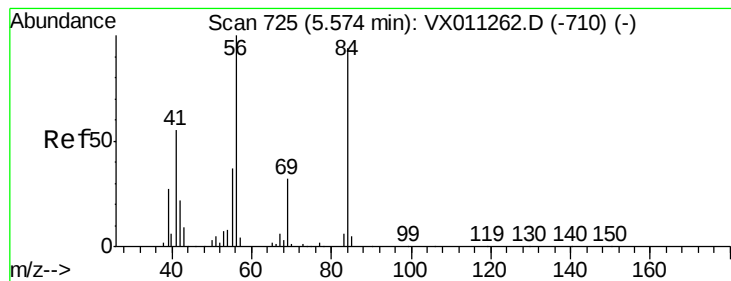
#25
2-Butanone
Concen: 0.702 ug/l
RT: 4.68 min Scan# 579
Delta R.T. 0.02 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

Tgt Ion:	43	Resp:	973
Ion	Ratio	Lower	Upper
43	100		
72	27.3	23.2	34.8



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 1.471 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

2S-11-(0)

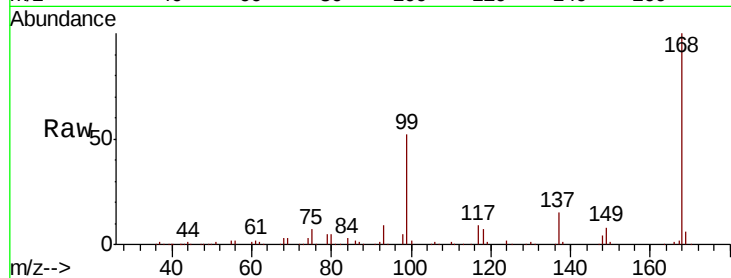
Tgt Ion: 56 Resp: 3876

Ion Ratio Lower Upper

56 100

69 170.5 25.5 38.3#

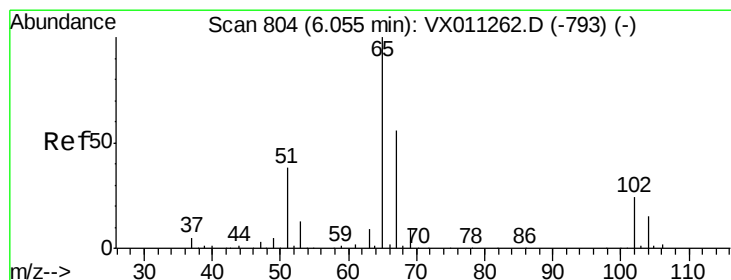
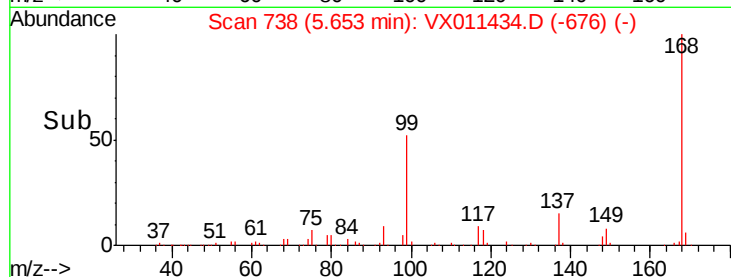
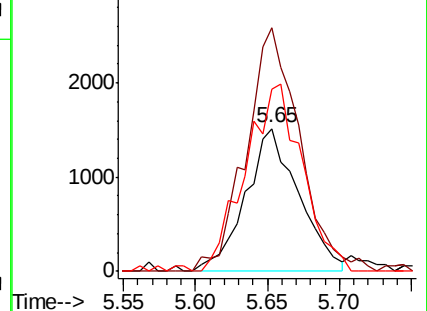
84 127.6 75.0 112.4#



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: 52.690 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.01 min

Lab File: VX011434.D

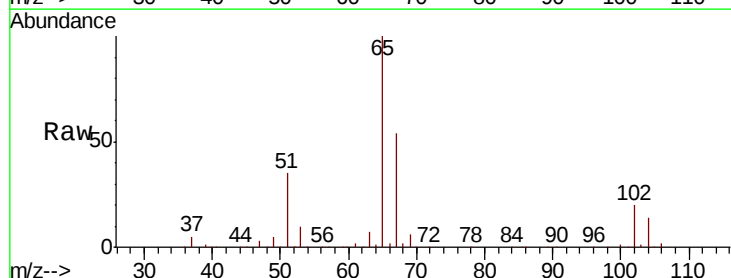
Acq: 11 Aug 2019 16:15

Tgt Ion: 65 Resp: 107811

Ion Ratio Lower Upper

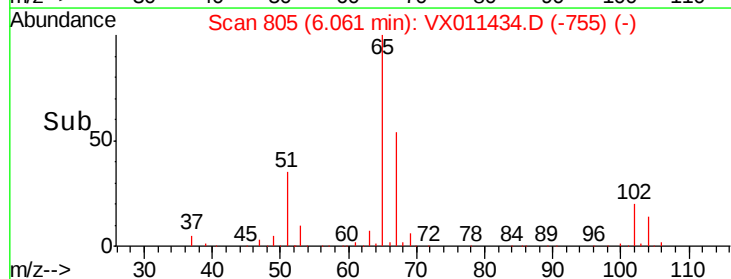
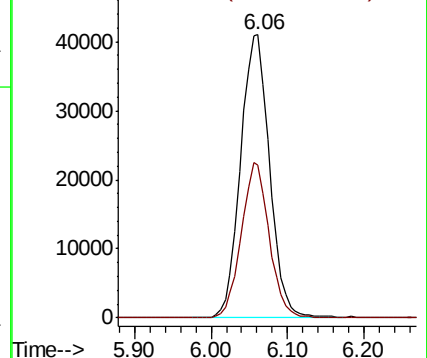
65 100

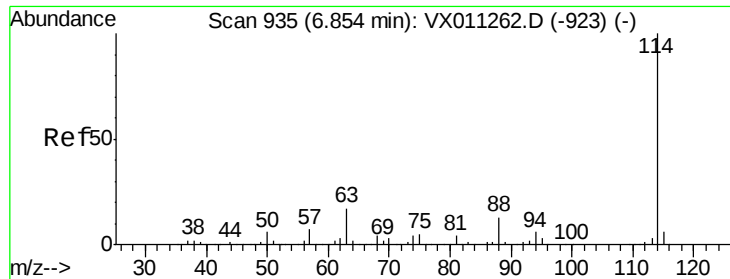
67 52.6 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

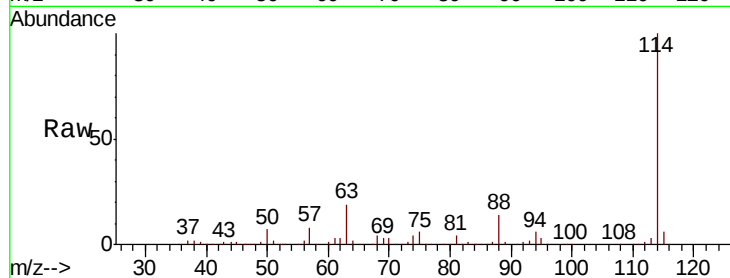




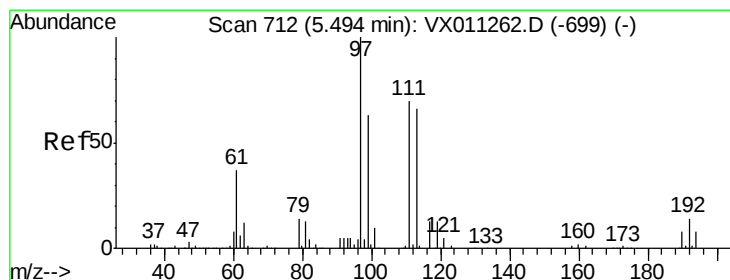
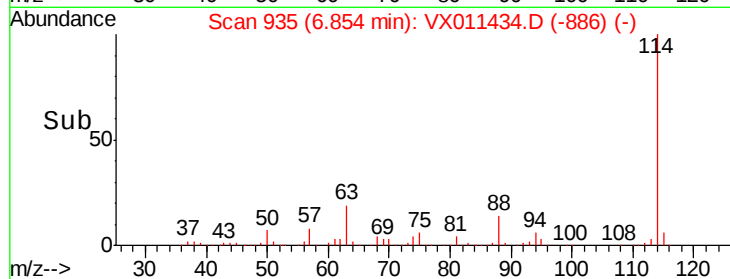
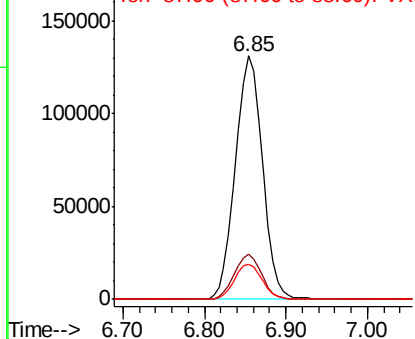
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011434.D
 Acq: 11 Aug 2019 16:15

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-11-(0)

Tgt Ion:114 Resp: 301774
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 34.0
 88 14.1 0.0 26.4

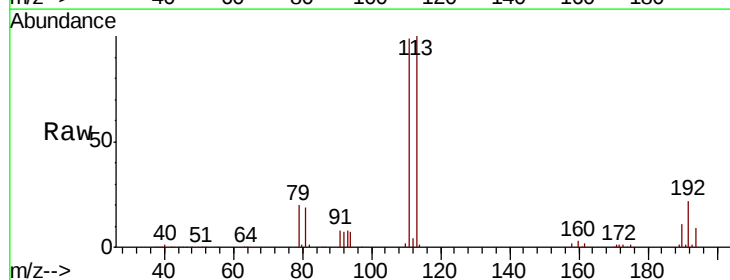


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

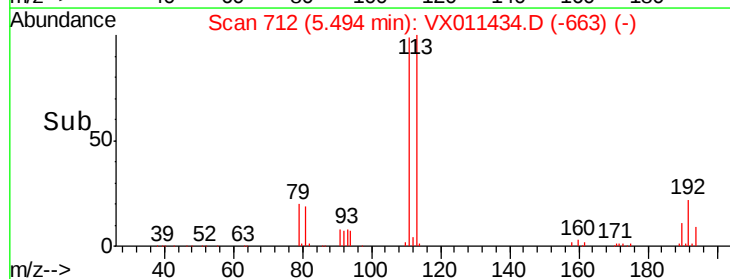
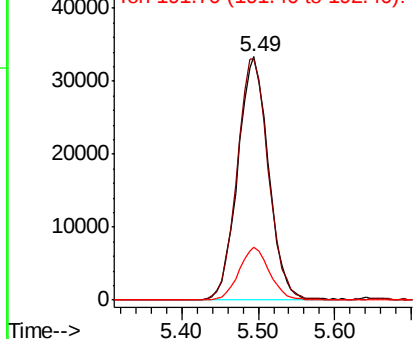


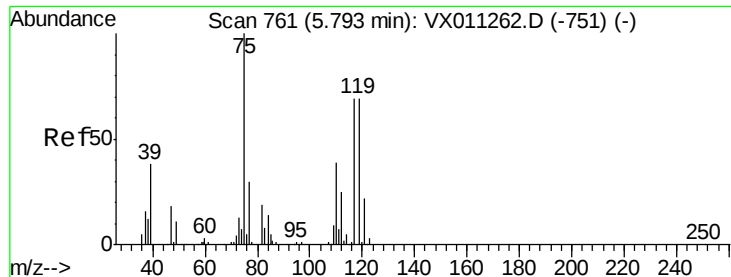
#35
 Dibromofluoromethane
 Concen: 47.236 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011434.D
 Acq: 11 Aug 2019 16:15

Tgt Ion:113 Resp: 93066
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.9 122.9
 192 21.5 17.8 26.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.467 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

2S-11-(0)

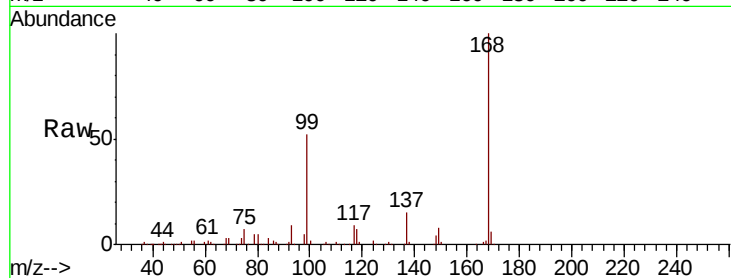
Tgt Ion: 75 Resp: 14404

Ion Ratio Lower Upper

75 100

110 9.6 20.0 59.9#

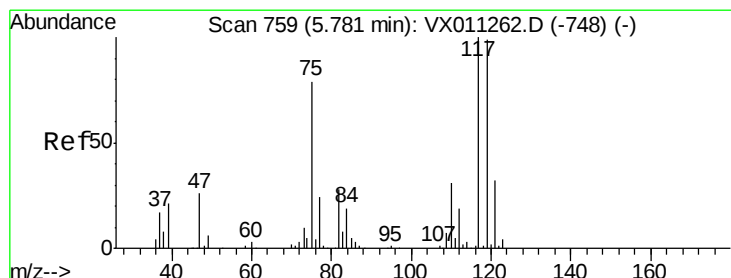
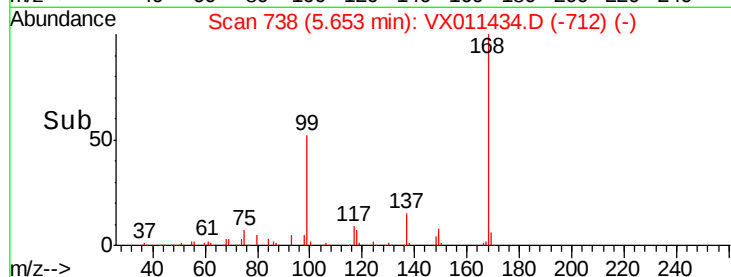
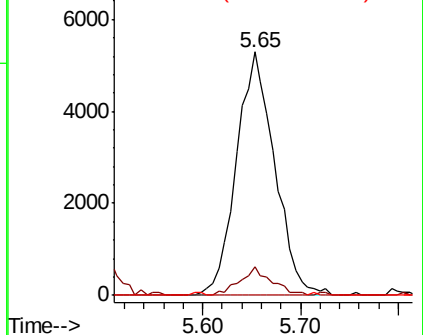
77 0.0 24.8 37.2#



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



#38

Carbon Tetrachloride

Concen: 7.230 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

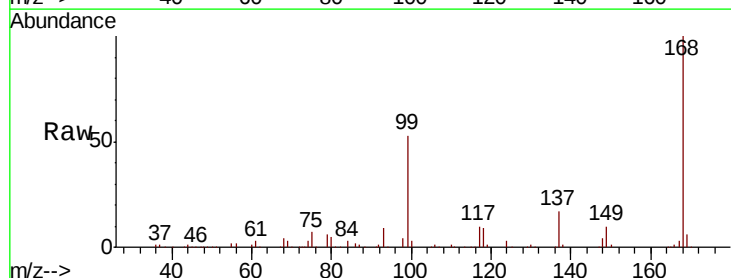
Tgt Ion: 117 Resp: 19166

Ion Ratio Lower Upper

117 100

119 6.9 79.0 118.4#

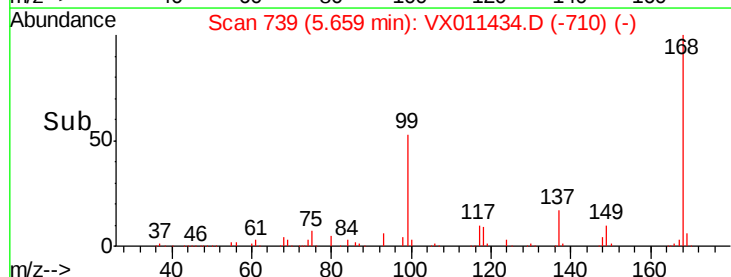
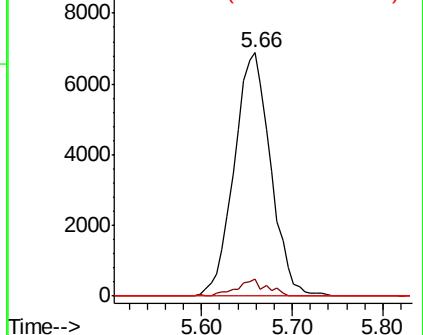
121 0.0 25.9 38.9#

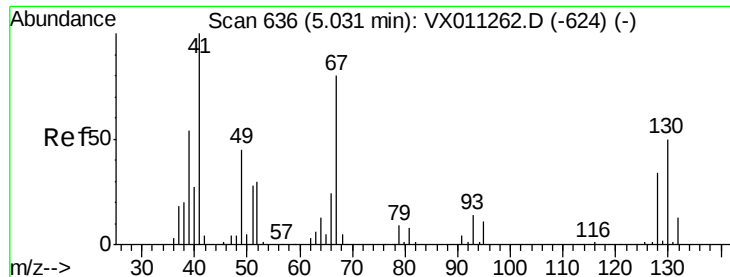


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#41

Methacrylonitrile

Concen: 0.255 ug/l

RT: 5.01 min Scan# 633

Delta R.T. -0.02 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

2S-11-(0)

Tgt Ion: 41 Resp: 368

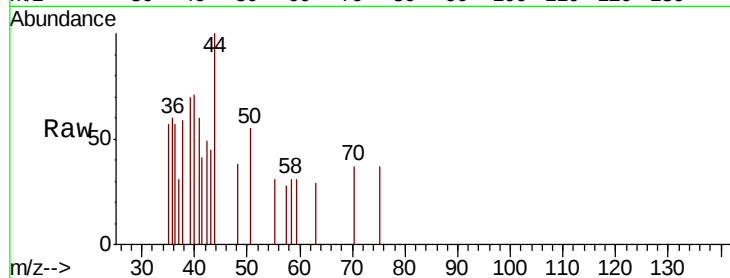
Ion Ratio Lower Upper

41 100

39 0.0 43.0 64.6#

67 0.0 65.1 97.7#

52 0.0 24.8 37.2#

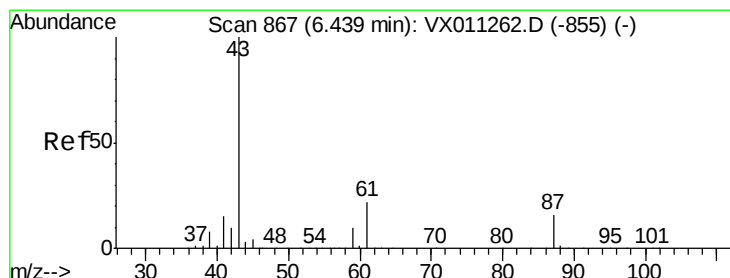
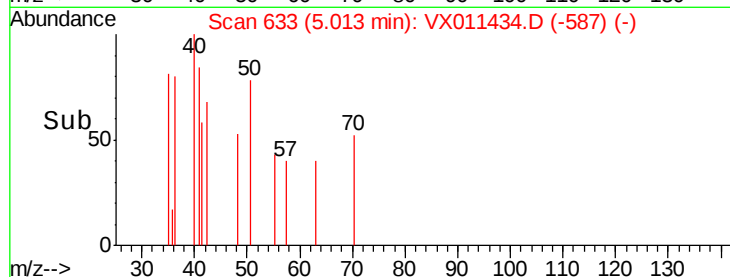
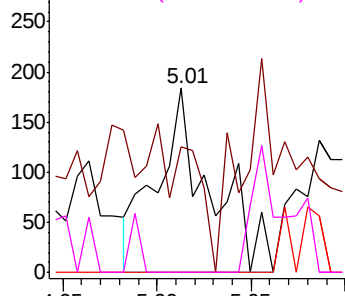


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#43

Isopropyl Acetate

Concen: 1.894 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

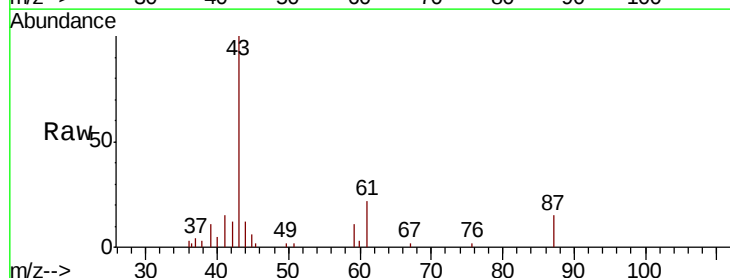
Tgt Ion: 43 Resp: 8001

Ion Ratio Lower Upper

43 100

61 21.6 16.5 24.7

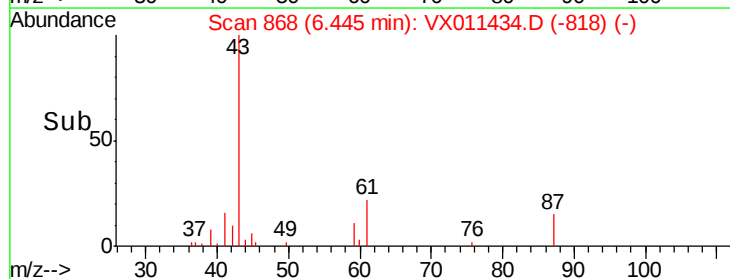
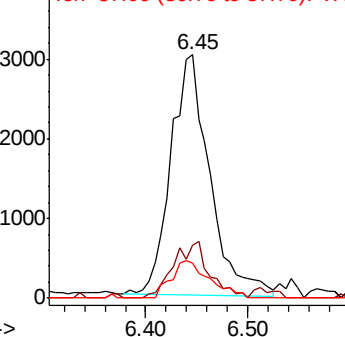
87 15.4 12.1 18.1

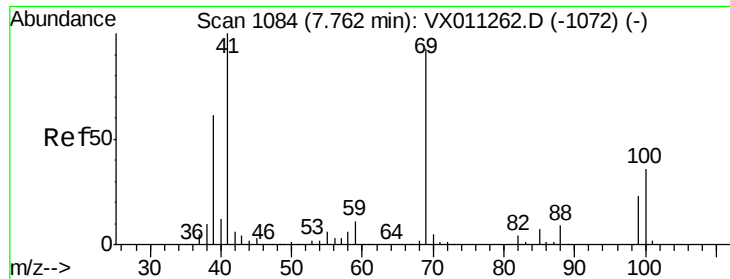


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

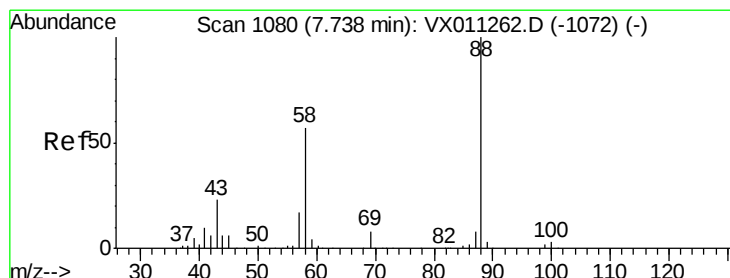
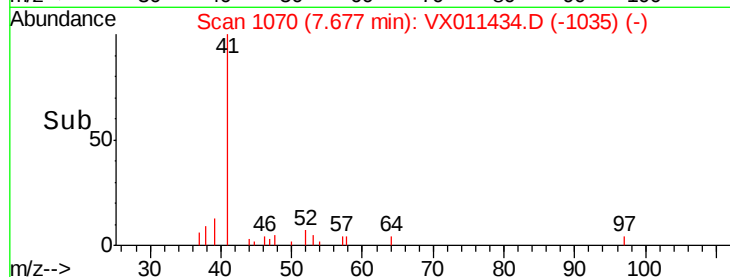
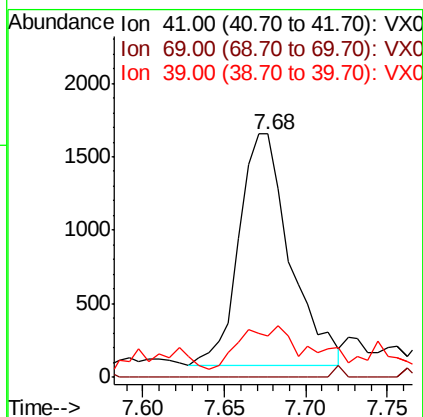
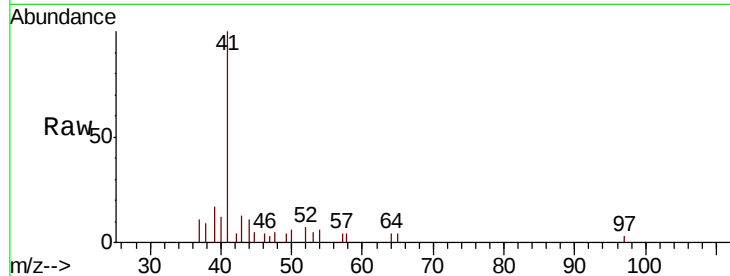




#48
Methyl methacrylate
Concen: 1.733 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

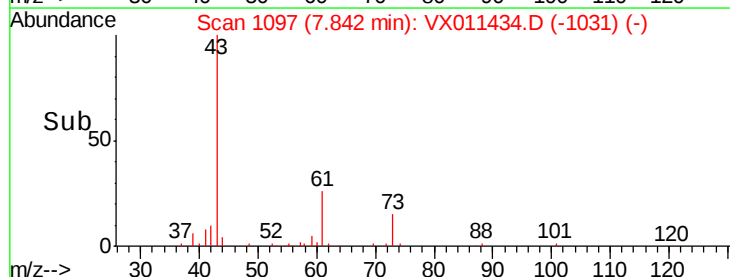
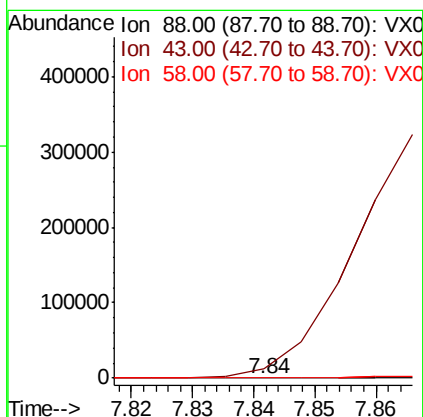
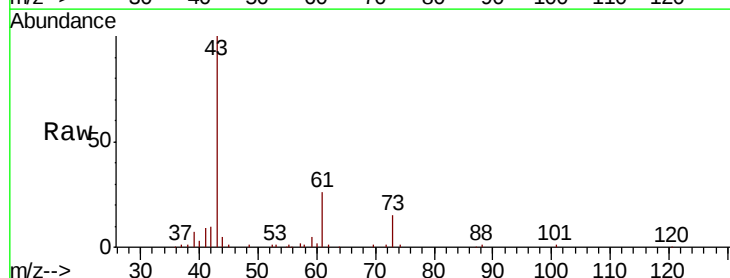
Instrument :
MSVOA_X
ClientSampleId :
2S-11-(0)

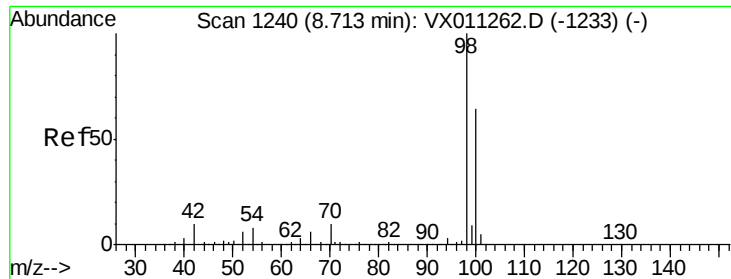
Tgt Ion: 41 Resp: 3446
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.954 ug/l
RT: 7.84 min Scan# 1097
Delta R.T. 0.10 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 47.8 71.8#

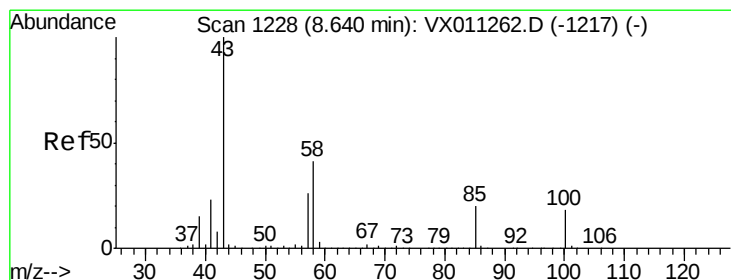
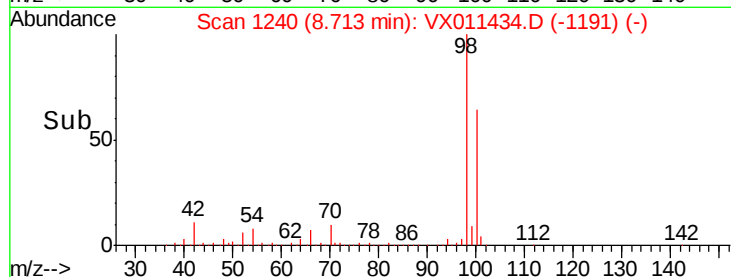
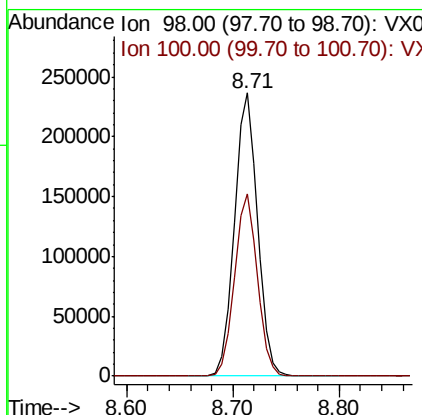
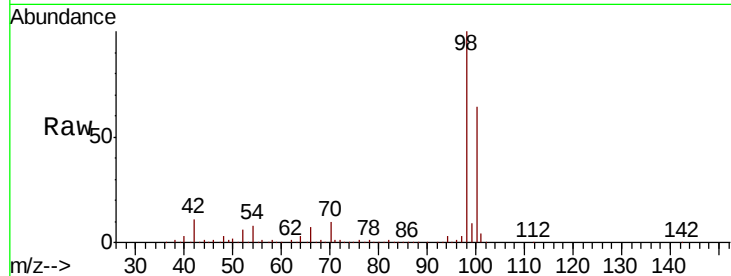




#50
Toluene-d8
Concen: 48.254 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

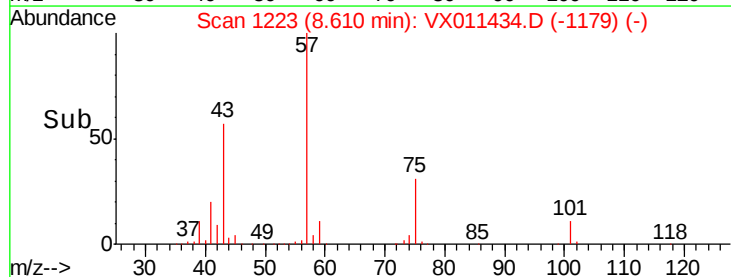
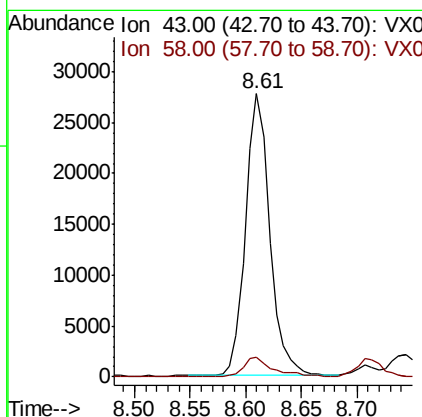
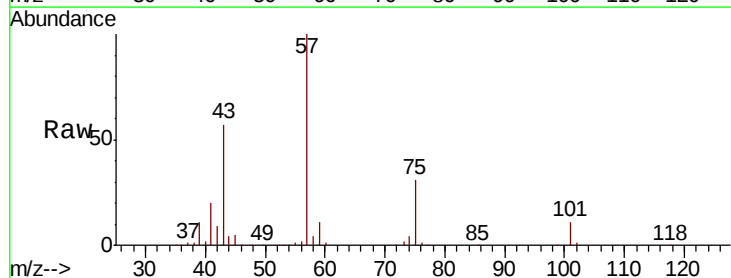
Instrument :
MSVOA_X
ClientSampled :
2S-11-(0)

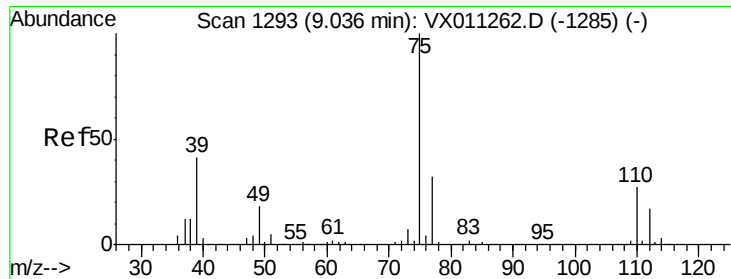
Tgt Ion: 98 Resp: 358863
Ion Ratio Lower Upper
98 100
100 63.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 15.407 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

Tgt Ion: 43 Resp: 42014
Ion Ratio Lower Upper
43 100
58 8.6 32.3 48.5#

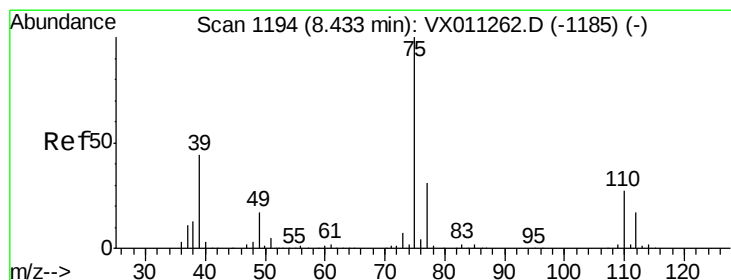
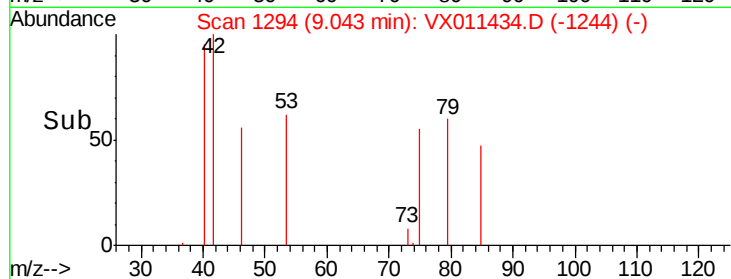
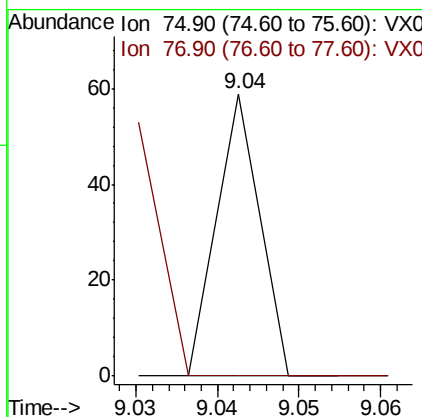
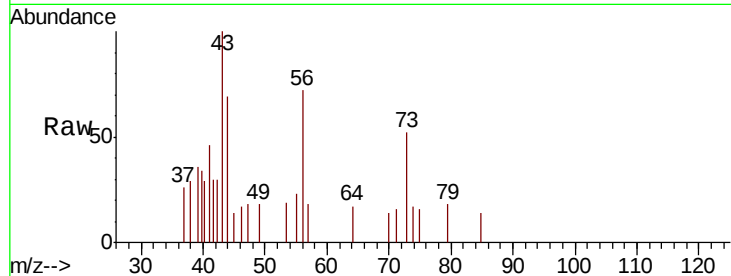




#53
t-1,3-Dichloropropene
Concen: 2.845 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

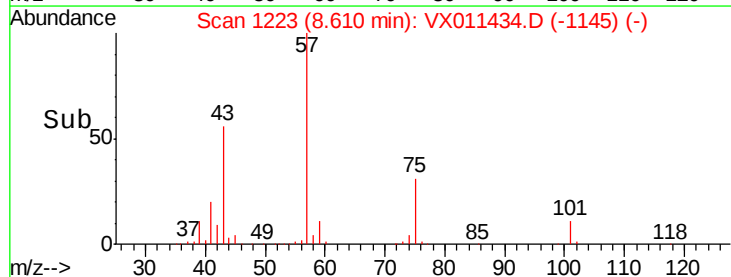
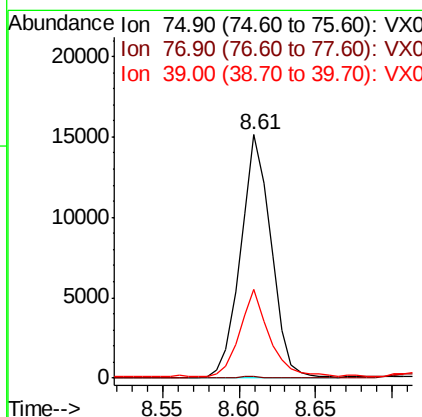
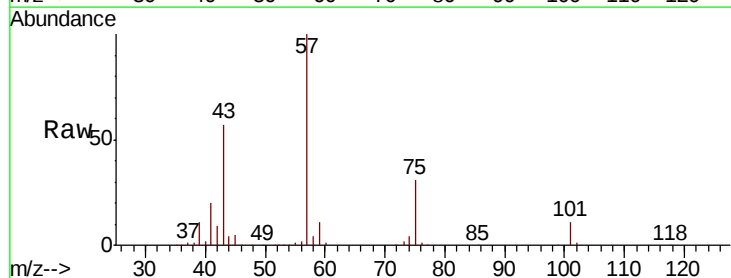
Instrument :
MSVOA_X
ClientSampleId :
2S-11-(0)

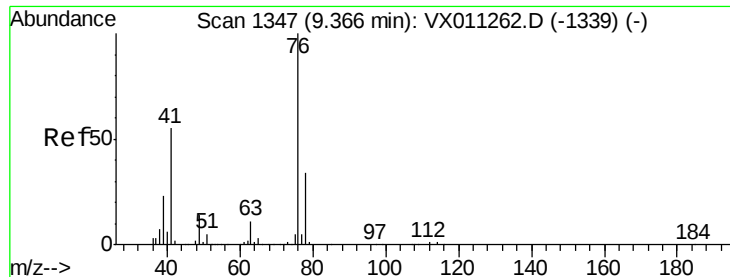
Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 7.119 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. 0.18 min
Lab File: VX011434.D
Acq: 11 Aug 2019 16:15

Tgt Ion: 75 Resp: 20930
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.6#
39 35.7 35.3 52.9





#57

1,3-Dichloropropane

Concen: 1.439 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

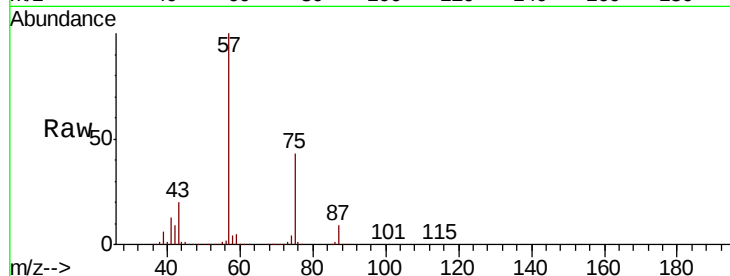
2S-11-(0)

Tgt Ion: 76 Resp: 4863

Ion Ratio Lower Upper

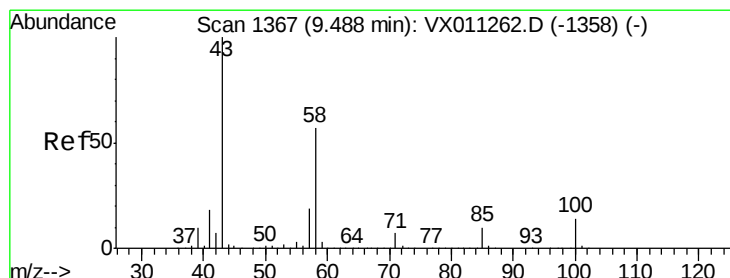
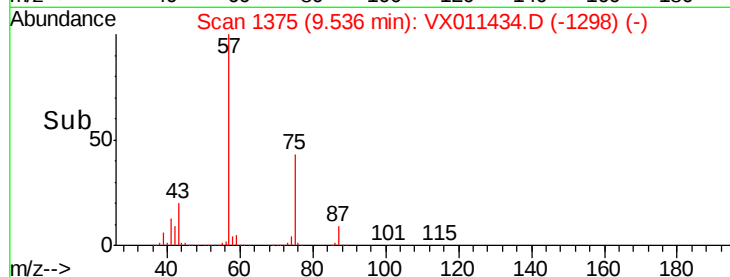
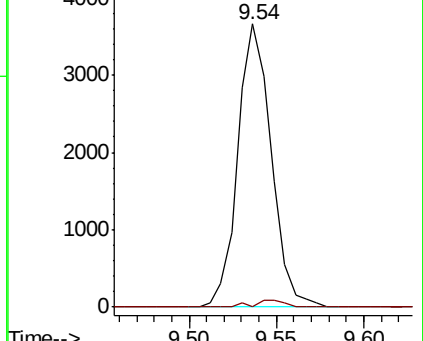
76 100

78 2.1 26.6 40.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#59

2-Hexanone

Concen: 31.428 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011434.D

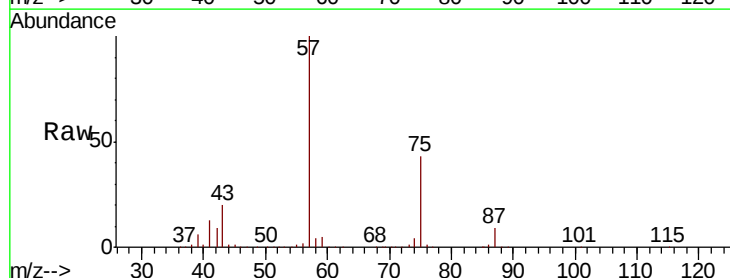
Acq: 11 Aug 2019 16:15

Tgt Ion: 43 Resp: 66380

Ion Ratio Lower Upper

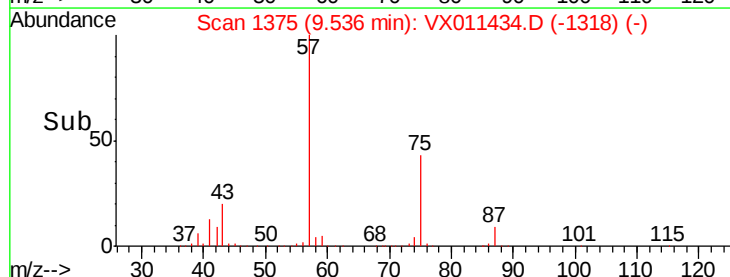
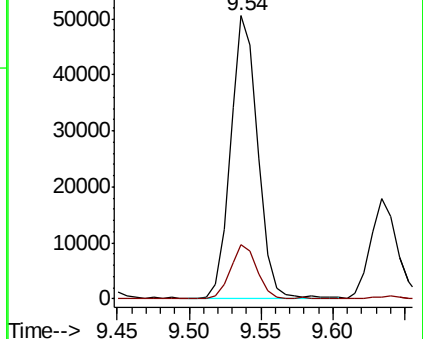
43 100

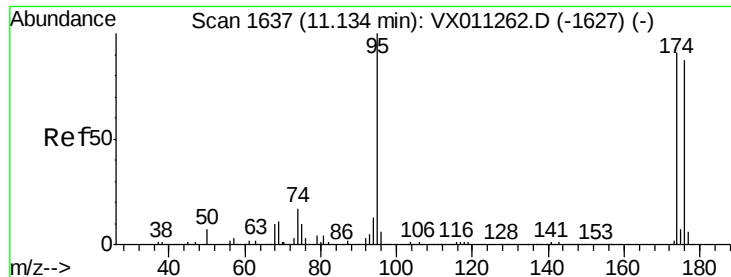
58 19.6 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.675 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

2S-11-(0)

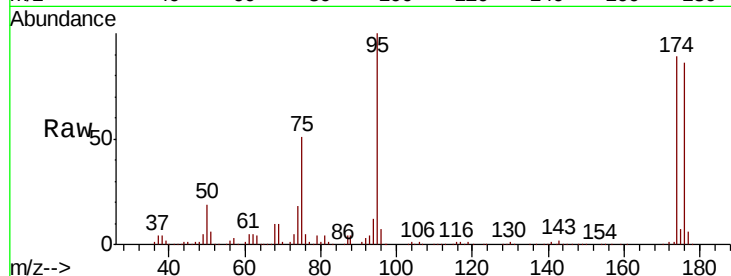
Tgt Ion: 95 Resp: 118622

Ion Ratio Lower Upper

95 100

174 90.5 0.0 191.2

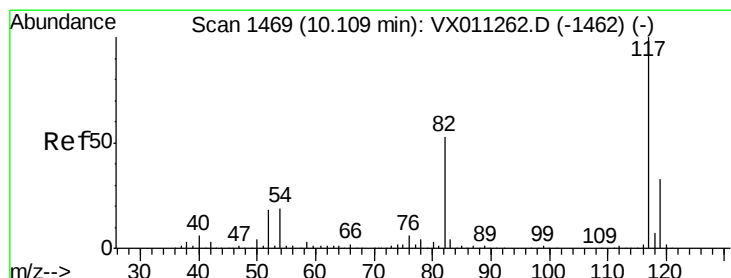
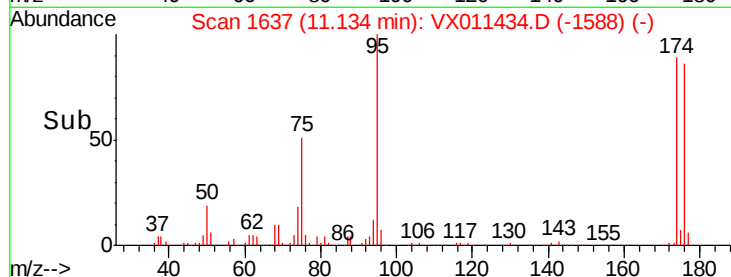
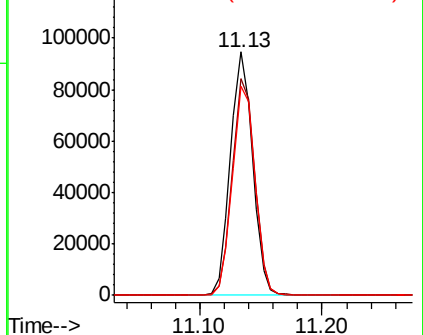
176 87.6 0.0 184.8



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

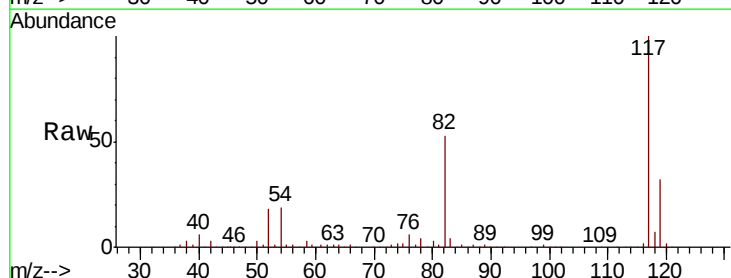
Tgt Ion: 117 Resp: 276857

Ion Ratio Lower Upper

117 100

82 52.7 42.2 63.2

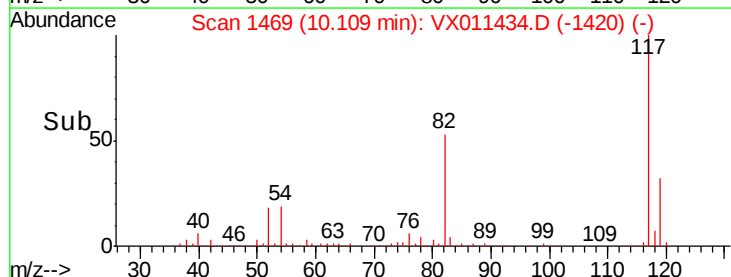
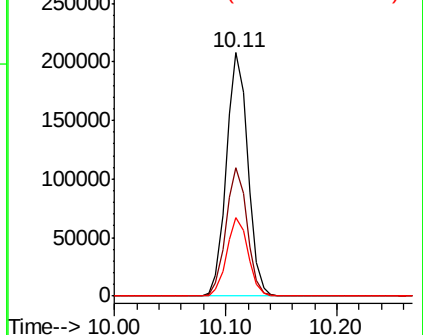
119 32.5 26.6 39.8

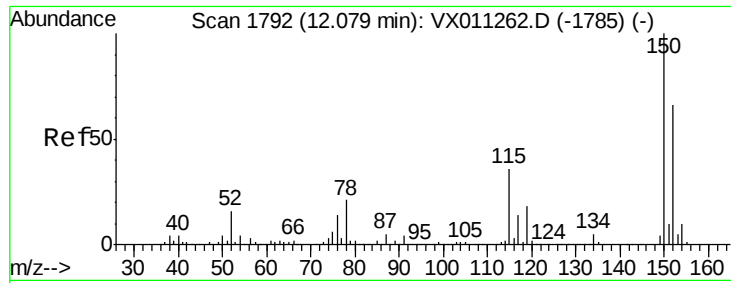


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

2S-11-(0)

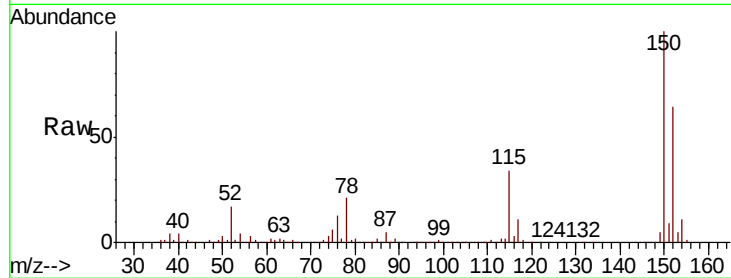
Tgt Ion:152 Resp: 122630

Ion Ratio Lower Upper

152 100

115 55.6 40.0 119.9

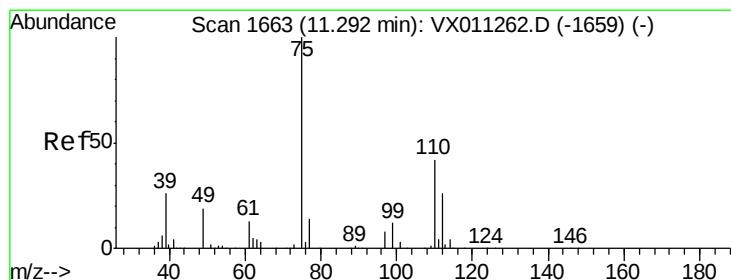
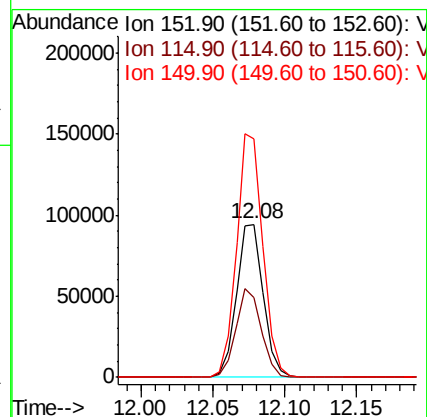
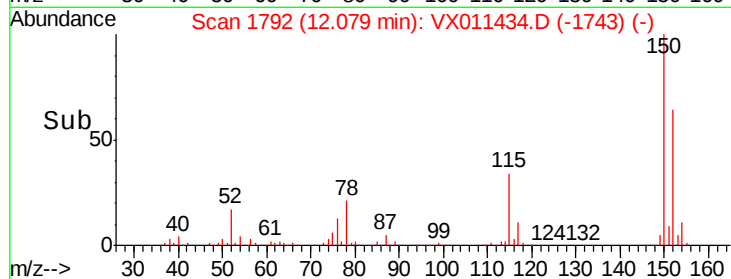
150 156.5 0.0 350.4



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: 26.961 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011434.D

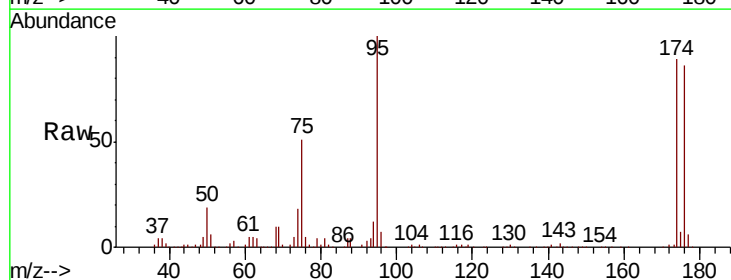
Acq: 11 Aug 2019 16:15

Tgt Ion: 75 Resp: 60211

Ion Ratio Lower Upper

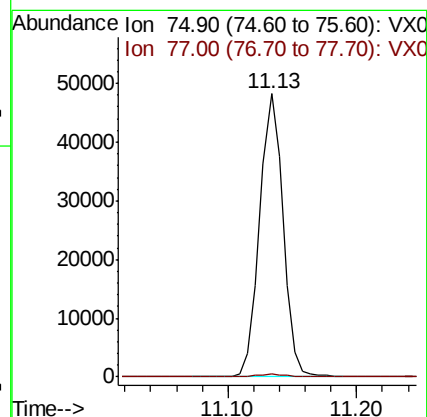
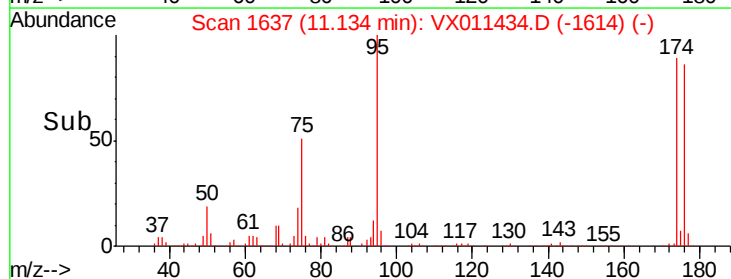
75 100

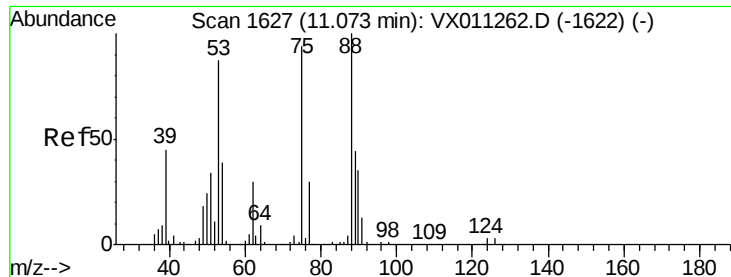
77 1.2 21.1 63.4#



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: 70.002 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011434.D

Acq: 11 Aug 2019 16:15

Instrument :

MSVOA_X

ClientSampleId :

2S-11-(0)

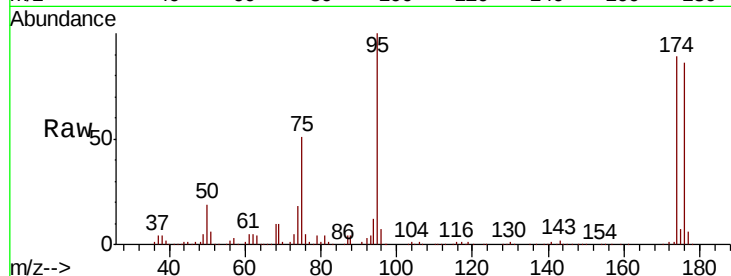
Tgt Ion: 75 Resp: 60211

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.0 37.9 56.9#



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

