

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081119\
 Data File : VX011426.D
 Acq On : 11 Aug 2019 13:09
 Operator : JC/SP
 Sample : K4228-21
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-I4-(1)

Quant Time: Aug 12 07:47:43 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

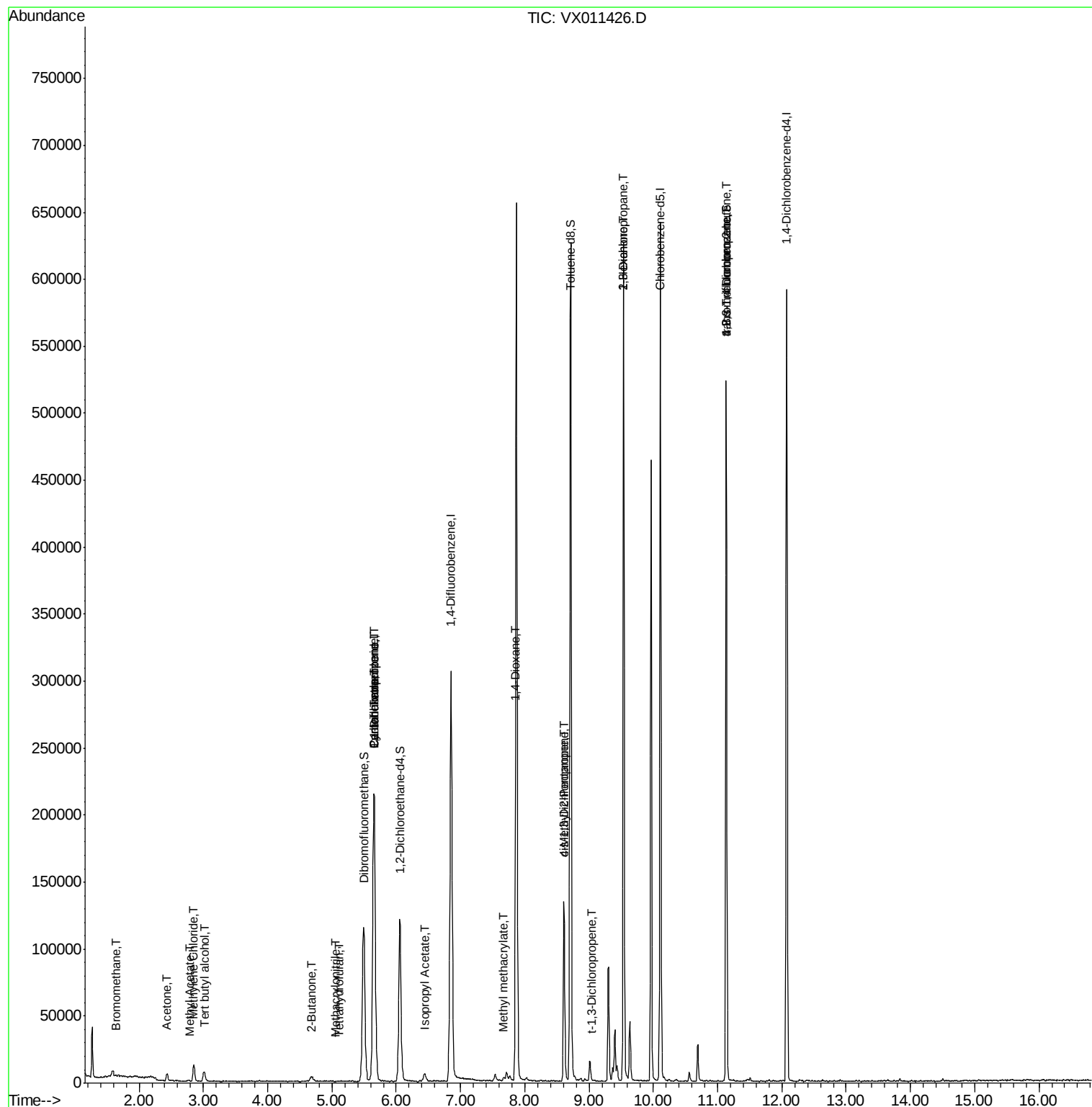
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	215969	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	317388	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	286261	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	127063	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	112766	51.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.70%	
35) Dibromofluoromethane	5.49	113	96802	46.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.44%	
50) Toluene-d8	8.71	98	376892	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
62) 4-Bromofluorobenzene	11.13	95	123214	44.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.24%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	705	0.480	ug/l	97
6) Chloroethane	1.71	64	95	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	4173	9.644	ug/l #	76
13) Acrolein	2.26	56	42	Below Cal	#	1
16) Acetone	2.43	43	6233	6.021	ug/l	98
18) Methyl Acetate	2.78	43	1198	0.506	ug/l #	88
20) Methylene Chloride	2.85	84	6060	2.673	ug/l	95
25) 2-Butanone	4.68	43	1221	0.829	ug/l #	85
29) Tetrahydrofuran	5.12	42	194	0.215	ug/l #	65
31) Cyclohexane	5.65	56	4250	1.517	ug/l #	6
36) 1,1-Dichloropropene	5.66	75	13870	5.005	ug/l #	49
38) Carbon Tetrachloride	5.65	117	20724	7.434	ug/l #	14
41) Methacrylonitrile	5.05	41	307	0.202	ug/l #	25
43) Isopropyl Acetate	6.45	43	8802	1.981	ug/l	99
48) Methyl methacrylate	7.67	41	3793	1.814	ug/l #	10
49) 1,4-Dioxane	7.85	88	48	0.792	ug/l #	29
51) 4-Methyl-2-Pentanone	8.61	43	43997	15.341	ug/l #	48
53) t-1,3-Dichloropropene	9.04	75	136	2.880	ug/l	95
54) cis-1,3-Dichloropropene	8.61	75	22452	7.261	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	5179	1.457	ug/l #	41
59) 2-Hexanone	9.54	43	70969	31.948	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	62940	27.200	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	62940	70.582	ug/l #	10

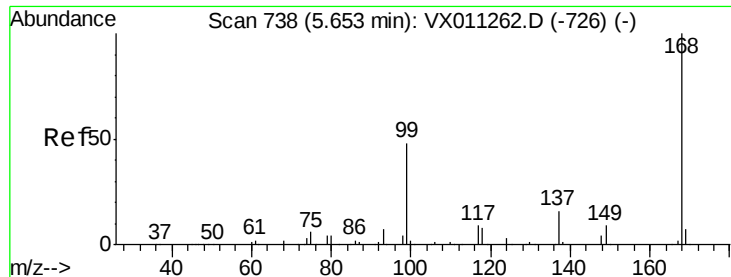
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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2S-14-(1)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.00 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

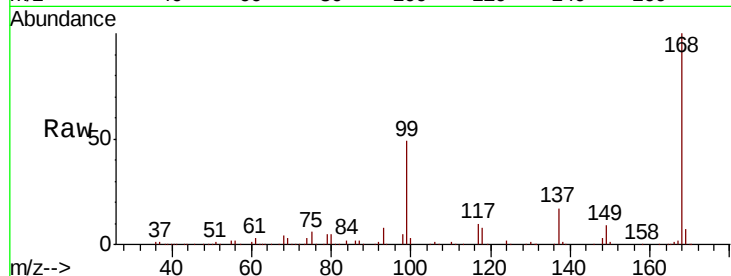
2S-I4-(1)

Tgt Ion:168 Resp: 215969

Ion Ratio Lower Upper

168 100

99 49.3 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

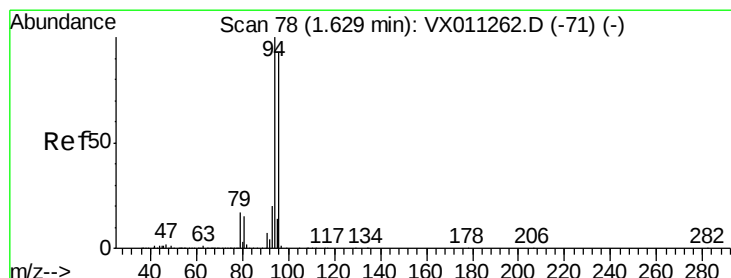
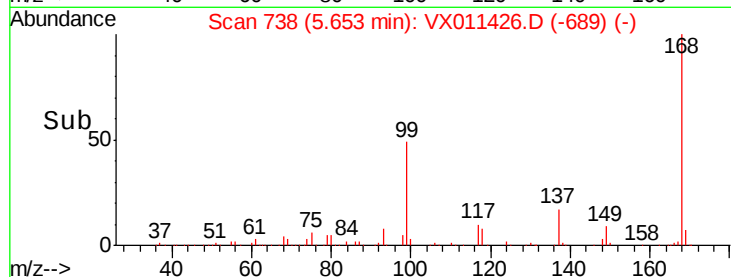
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.480 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011426.D

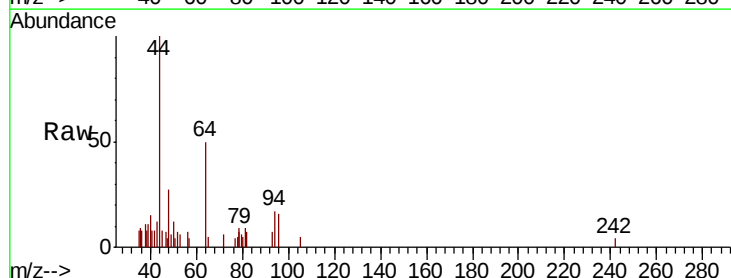
Acq: 11 Aug 2019 13:09

Tgt Ion: 94 Resp: 705

Ion Ratio Lower Upper

94 100

96 96.1 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

250

200

150

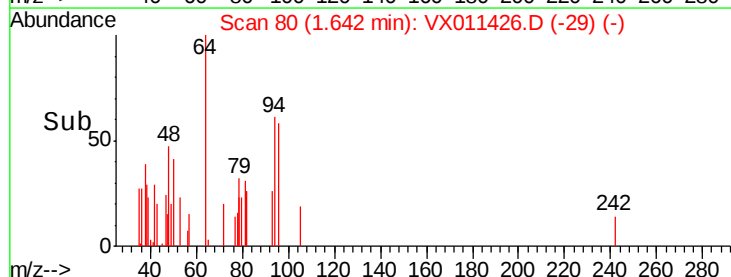
100

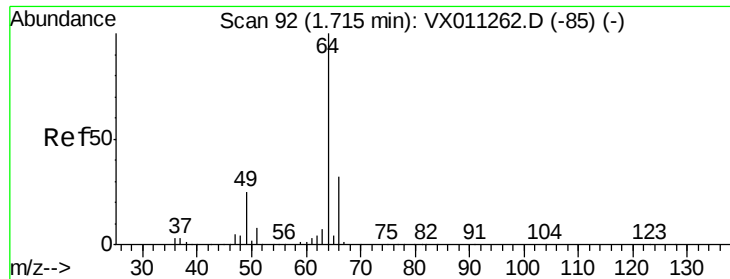
50

0

Time-->

1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampled :

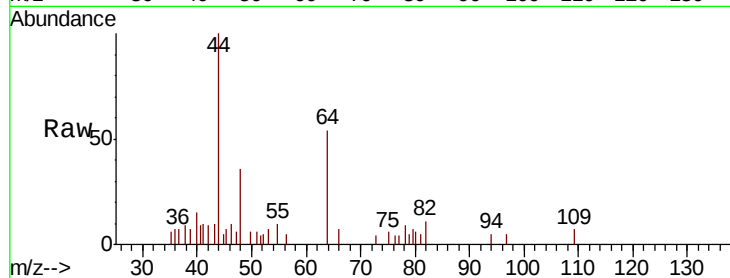
2S-I4-(1)

Tgt Ion: 64 Resp: 95

Ion Ratio Lower Upper

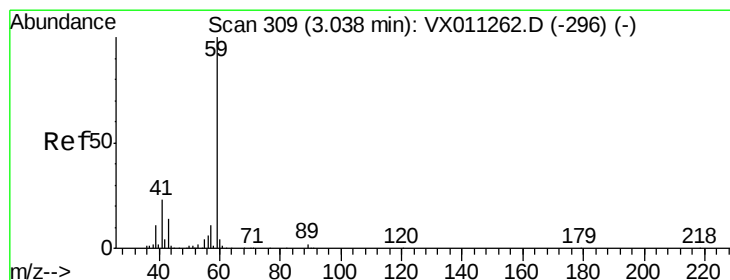
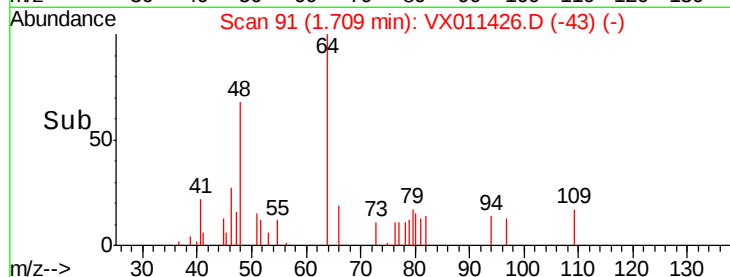
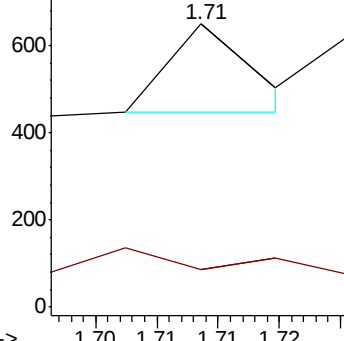
64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 9.644 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.02 min

Lab File: VX011426.D

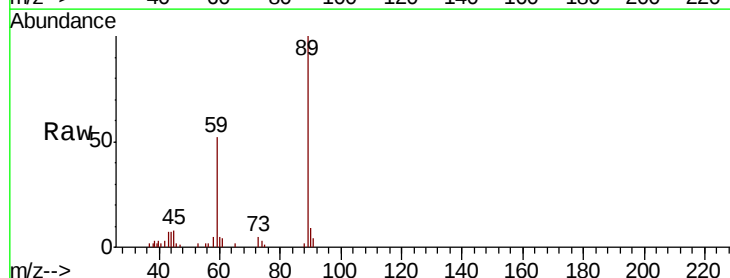
Acq: 11 Aug 2019 13:09

Tgt Ion: 59 Resp: 4173

Ion Ratio Lower Upper

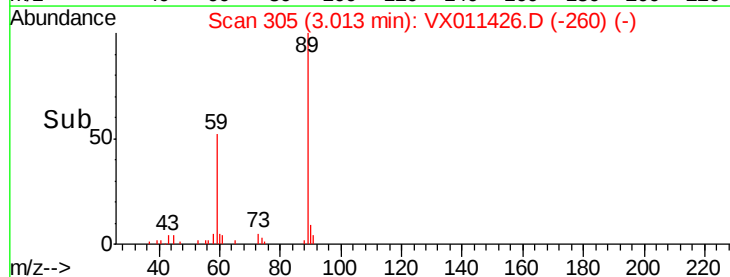
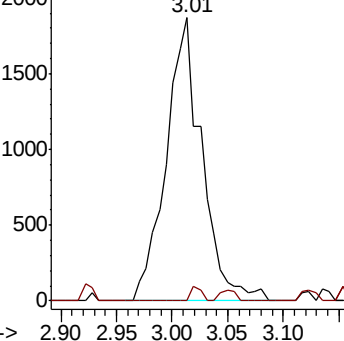
59 100

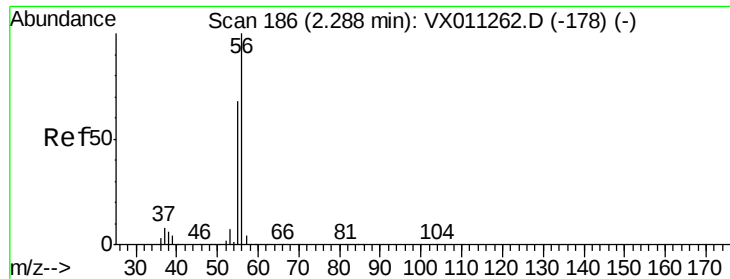
57 1.5 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

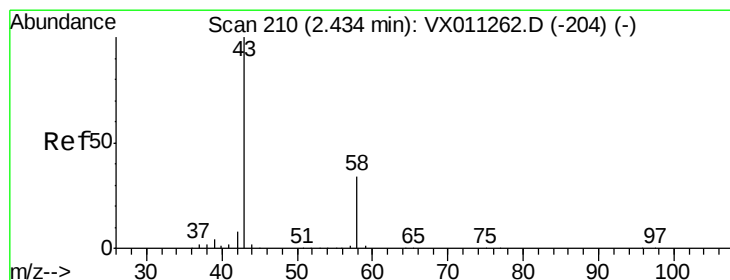
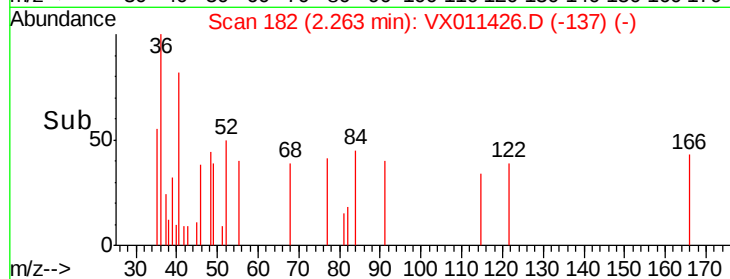
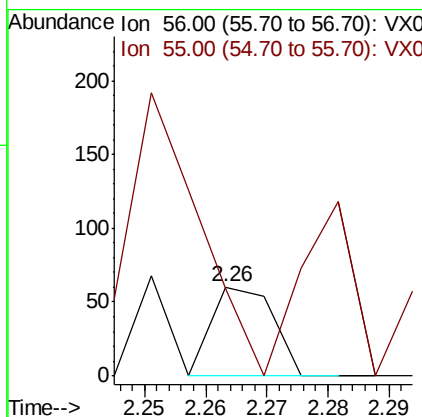
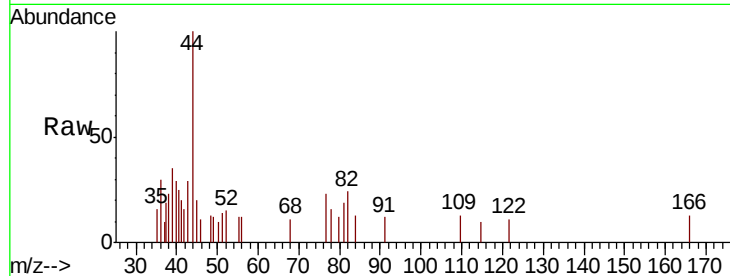




#13
Acrolein
Concen: Below Cal
RT: 2.26 min Scan# 182
Delta R.T. -0.02 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

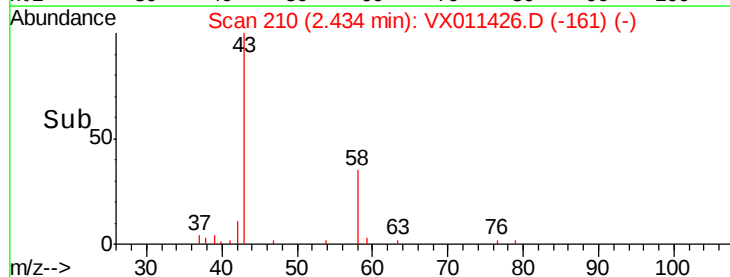
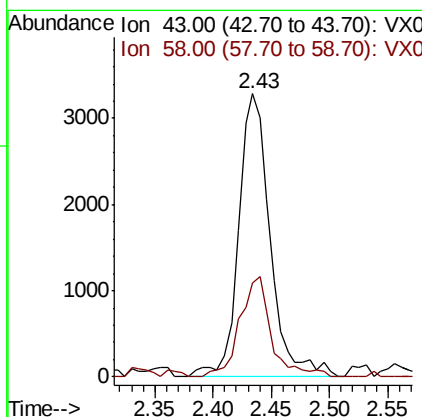
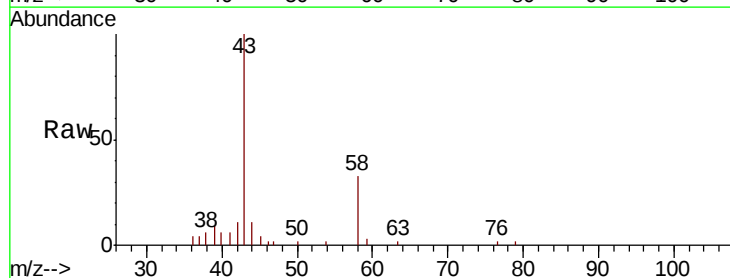
Instrument :
MSVOA_X
ClientSampleId :
2S-I4-(1)

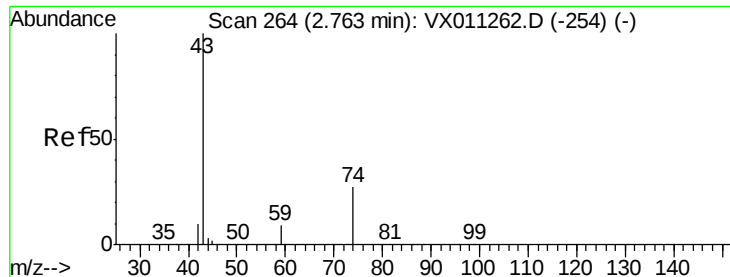
Tgt Ion: 56 Resp: 42
Ion Ratio Lower Upper
56 100
55 216.7 56.0 84.0#



#16
Acetone
Concen: 6.021 ug/l
RT: 2.43 min Scan# 210
Delta R.T. 0.00 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

Tgt Ion: 43 Resp: 6233
Ion Ratio Lower Upper
43 100
58 33.1 27.4 41.0

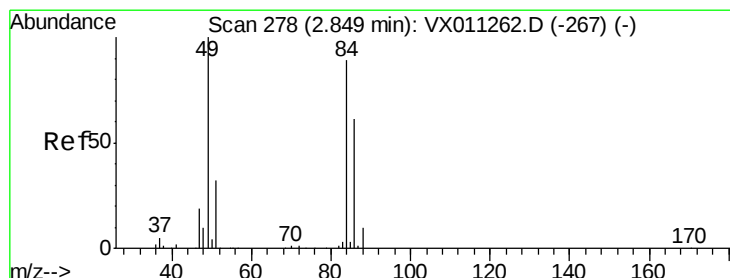
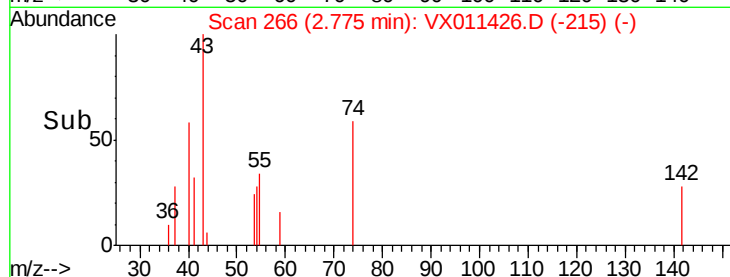
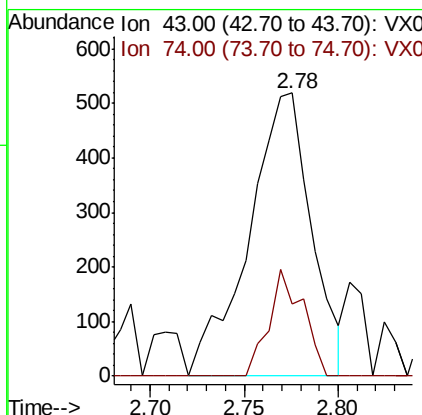
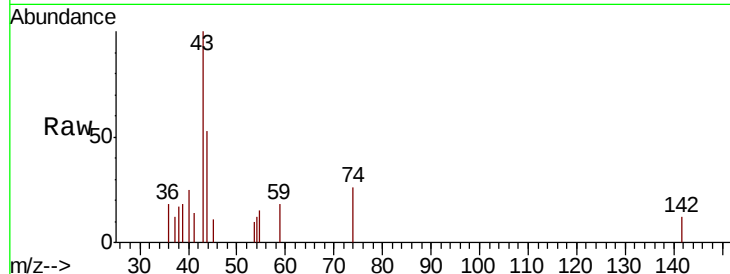




#18
Methyl Acetate
Concen: 0.506 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

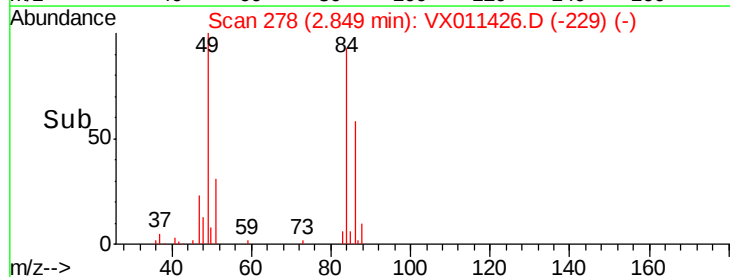
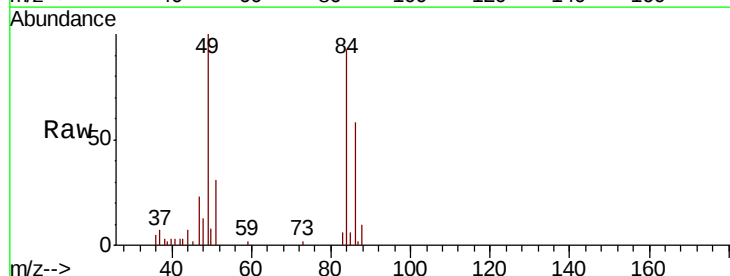
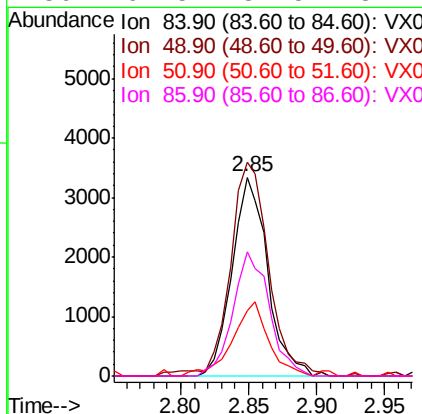
Instrument :
MSVOA_X
ClientSampled :
2S-I4-(1)

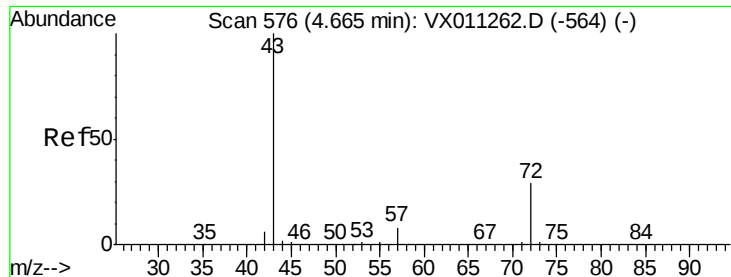
Tgt Ion: 43 Resp: 1198
Ion Ratio Lower Upper
43 100
74 20.4 21.0 31.6#



#20
Methylene Chloride
Concen: 2.673 ug/l
RT: 2.85 min Scan# 278
Delta R.T. 0.00 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

Tgt Ion: 84 Resp: 6060
Ion Ratio Lower Upper
84 100
49 107.6 89.3 133.9
51 32.9 28.3 42.5
86 62.5 54.5 81.7





#25

2-Butanone

Concen: 0.829 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampled :

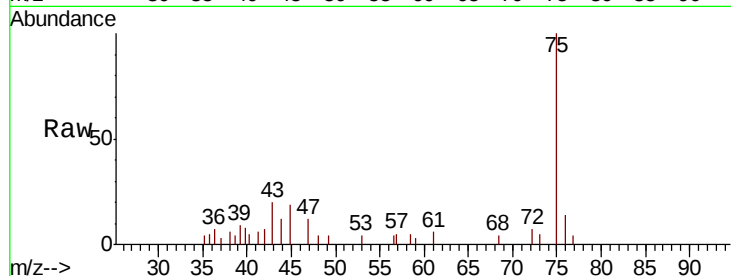
2S-I4-(1)

Tgt Ion: 43 Resp: 1221

Ion Ratio Lower Upper

43 100

72 36.8 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

300

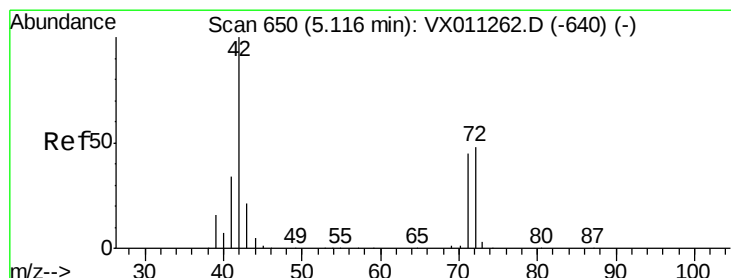
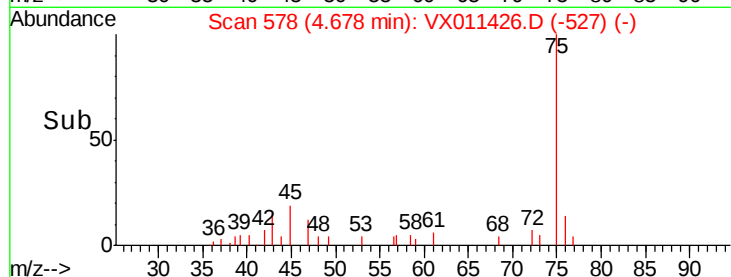
200

100

0

4.60 4.65 4.70 4.75

Time-->



#29

Tetrahydrofuran

Concen: 0.215 ug/l

RT: 5.12 min Scan# 650

Delta R.T. 0.00 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

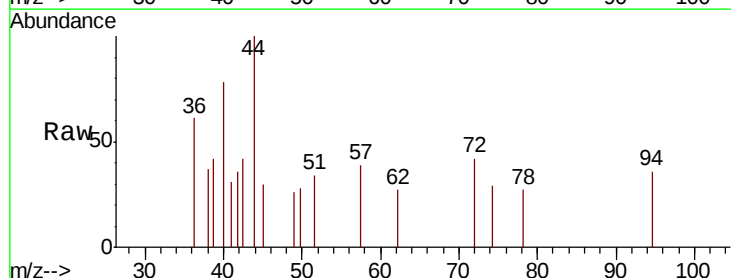
Tgt Ion: 42 Resp: 194

Ion Ratio Lower Upper

42 100

72 52.1 39.9 59.9

71 0.0 36.9 55.3#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

250

200

150

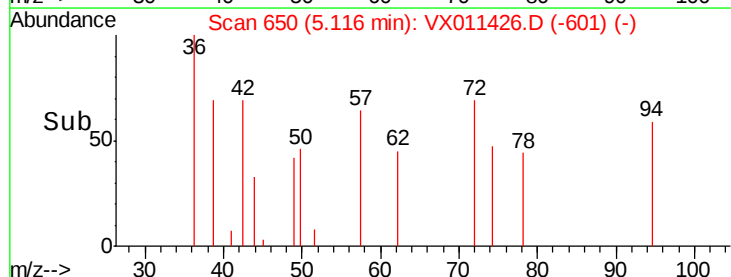
100

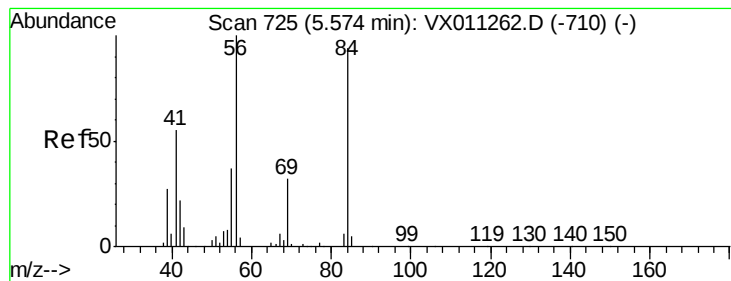
50

0

5.08 5.10 5.12

Time-->





#31

Cyclohexane

Concen: 1.517 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.08 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

2S-I4-(1)

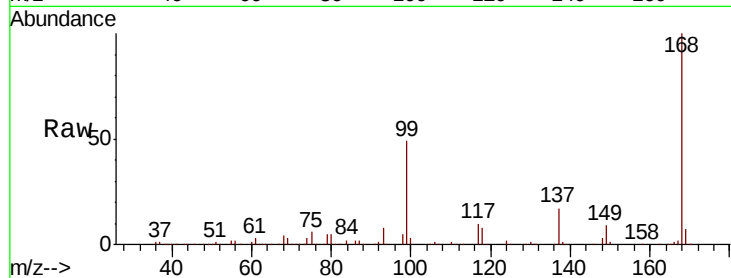
Tgt Ion: 56 Resp: 4250

Ion Ratio Lower Upper

56 100

69 180.5 25.5 38.3#

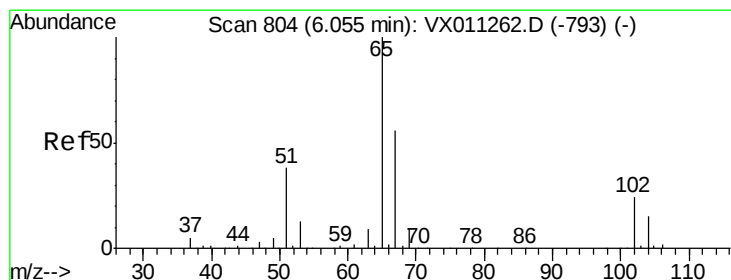
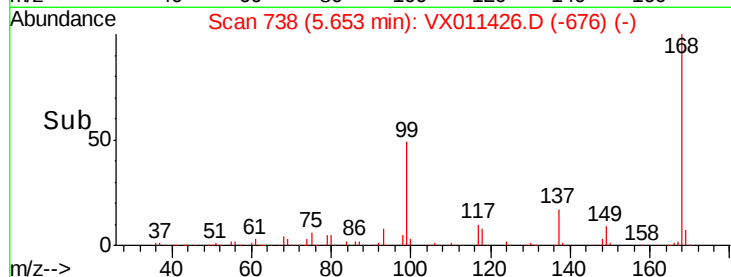
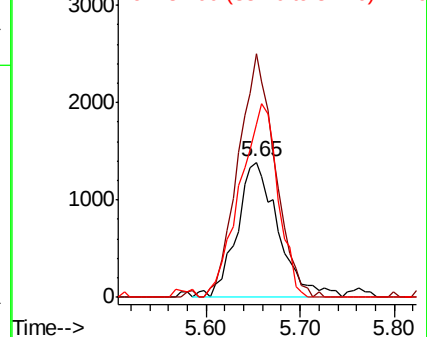
84 128.1 75.0 112.4#



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: 51.848 ug/l

RT: 6.06 min Scan# 804

Delta R.T. 0.00 min

Lab File: VX011426.D

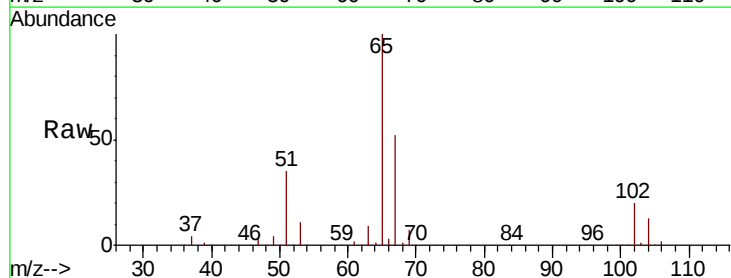
Acq: 11 Aug 2019 13:09

Tgt Ion: 65 Resp: 112766

Ion Ratio Lower Upper

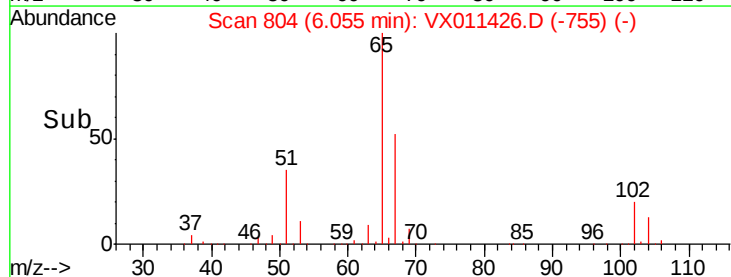
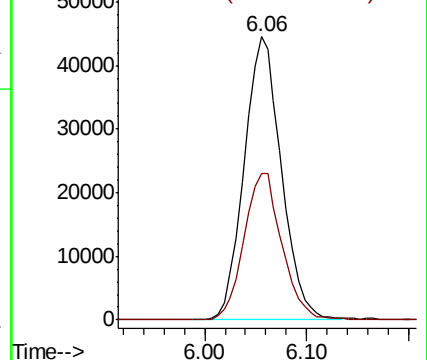
65 100

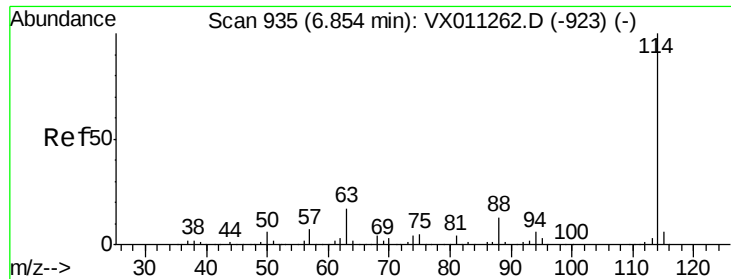
67 52.8 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

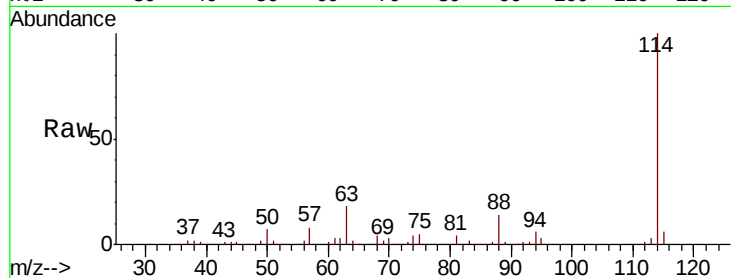




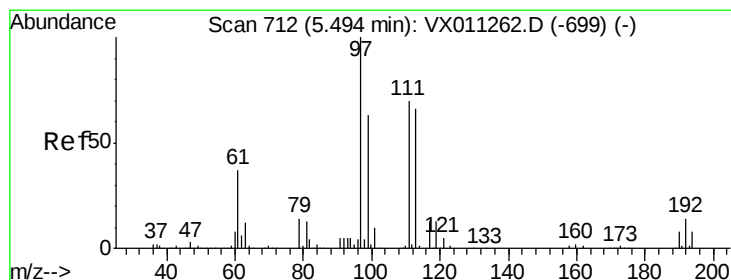
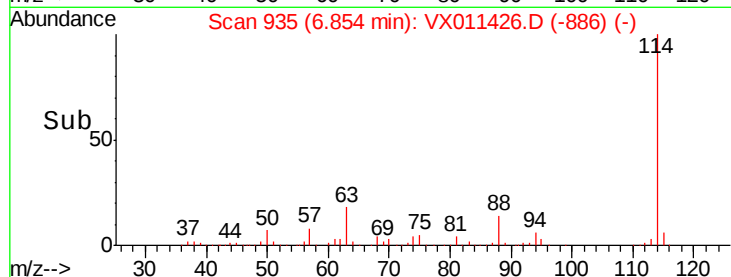
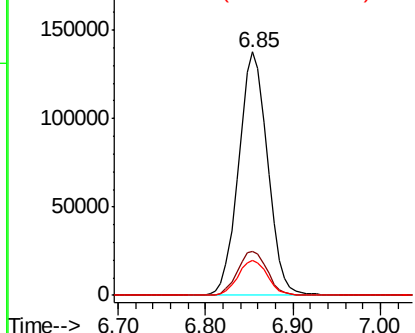
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. 0.00 min
 Lab File: VX011426.D
 Acq: 11 Aug 2019 13:09

Instrument :
 MSVOA_X
 ClientSampleId :
 2S-I4-(1)

Tgt Ion:114 Resp: 317388
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 34.0
 88 14.2 0.0 26.4

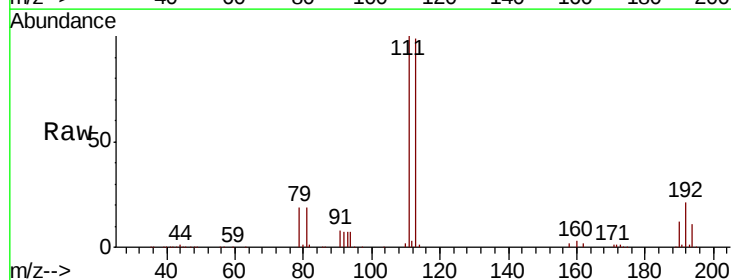


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

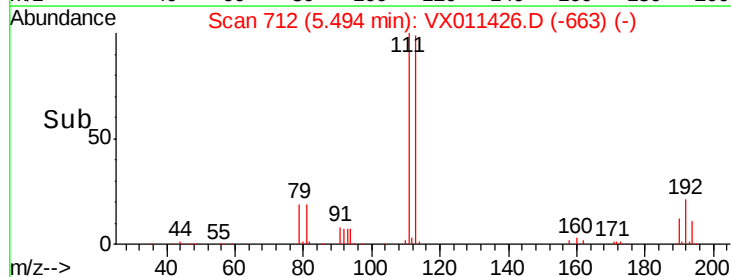
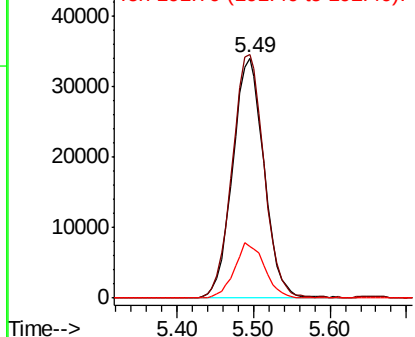


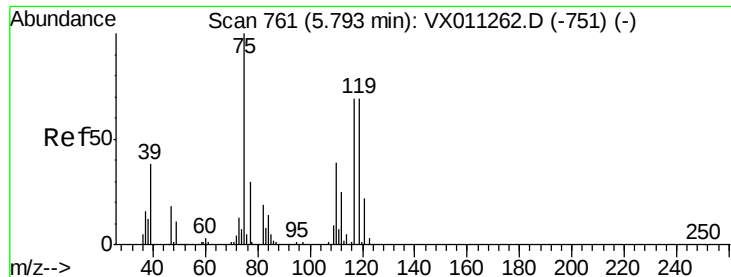
#35
 Dibromofluoromethane
 Concen: 46.716 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX011426.D
 Acq: 11 Aug 2019 13:09

Tgt Ion:113 Resp: 96802
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.9 122.9
 192 22.1 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: 5.005 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

2S-I4-(1)

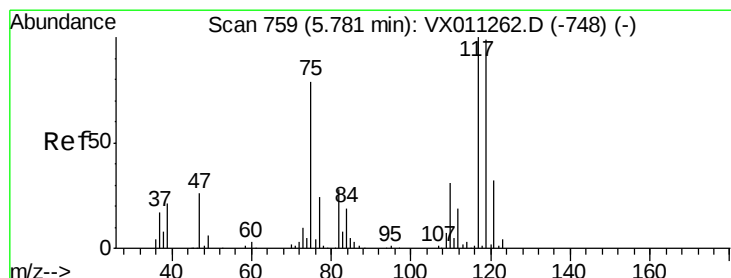
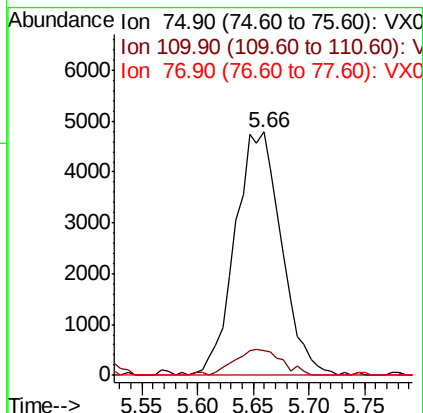
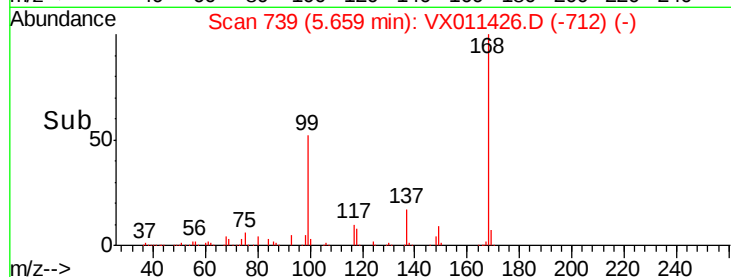
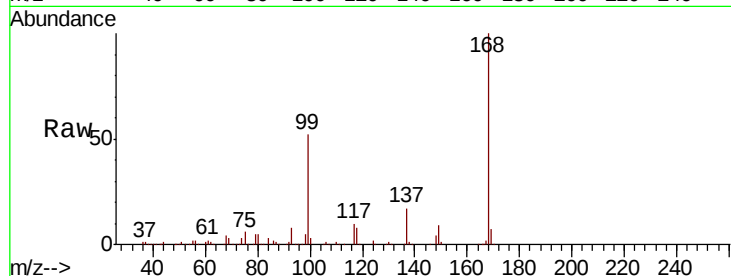
Tgt Ion: 75 Resp: 13870

Ion Ratio Lower Upper

75 100

110 10.8 20.0 59.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.434 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

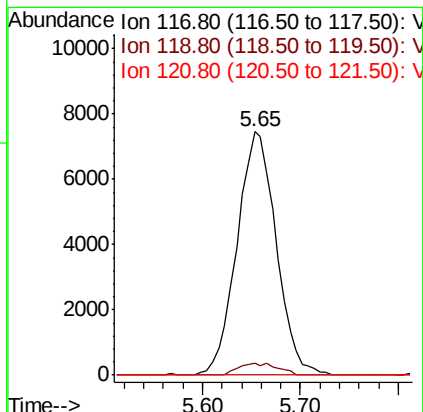
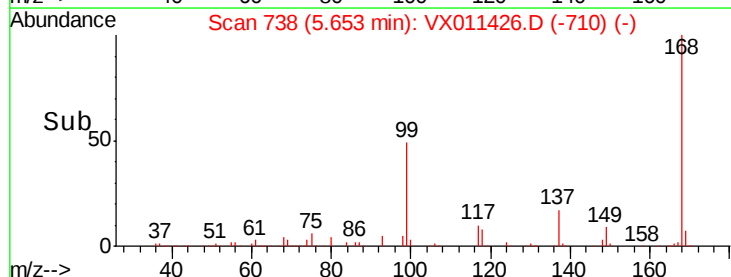
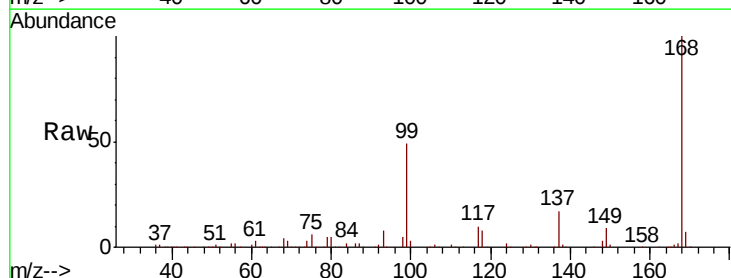
Tgt Ion: 117 Resp: 20724

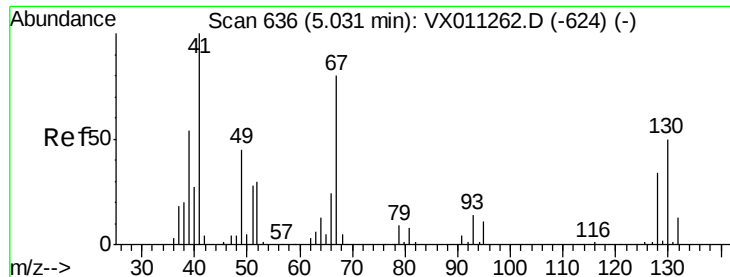
Ion Ratio Lower Upper

117 100

119 4.6 79.0 118.4#

121 0.0 25.9 38.9#





#41

Methacrylonitrile

Concen: 0.202 ug/l

RT: 5.05 min Scan# 639

Delta R.T. 0.02 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampled :

2S-I4-(1)

Tgt Ion: 41 Resp: 307

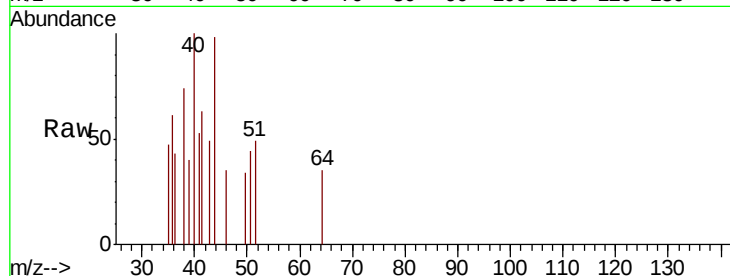
Ion Ratio Lower Upper

41 100

39 0.0 43.0 64.6#

67 0.0 65.1 97.7#

52 13.0 24.8 37.2#

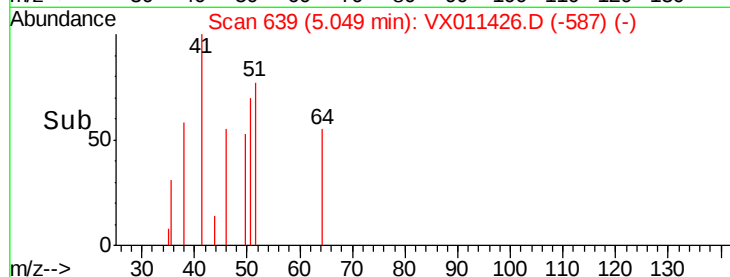
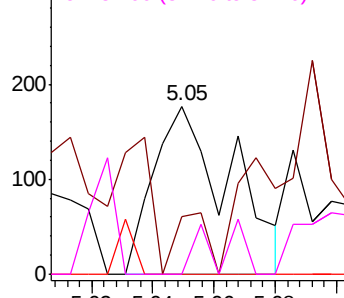


Abundance Ion 41.00 (40.70 to 41.70): VX0

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: 1.981 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.01 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

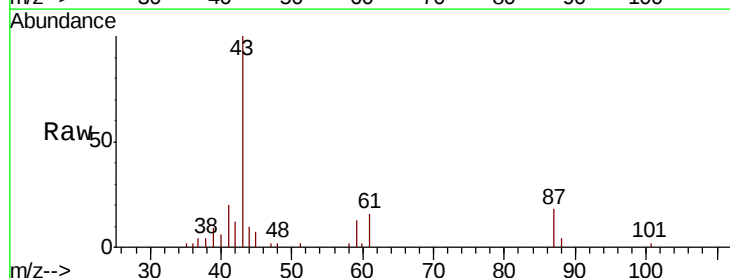
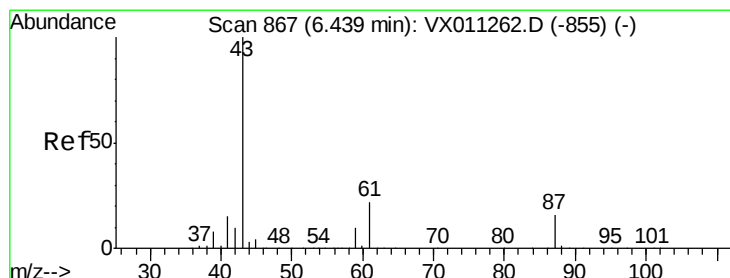
Tgt Ion: 43 Resp: 8802

Ion Ratio Lower Upper

43 100

61 19.9 16.5 24.7

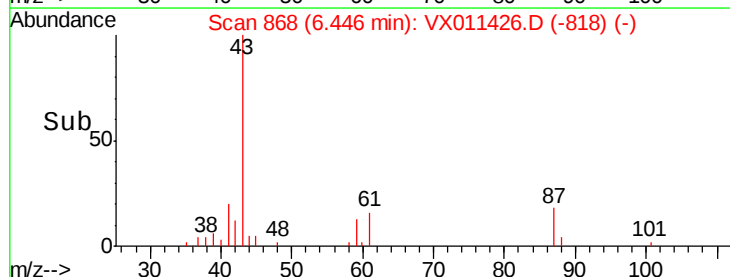
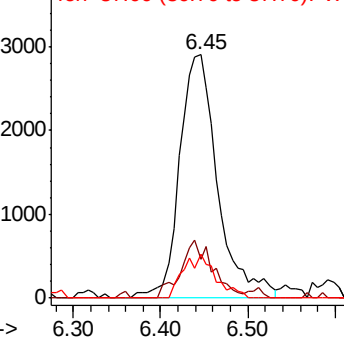
87 15.3 12.1 18.1

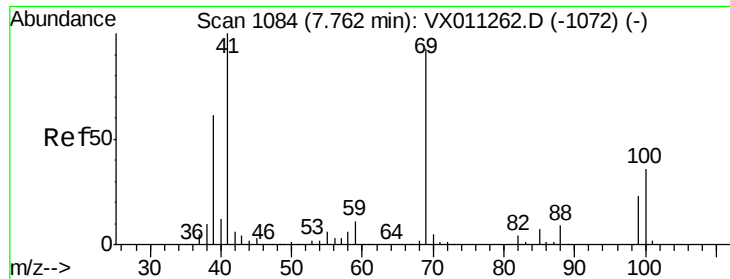


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

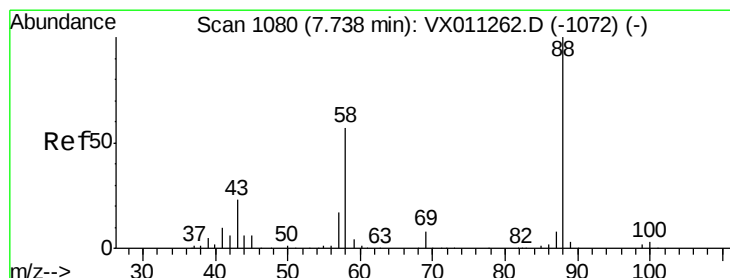
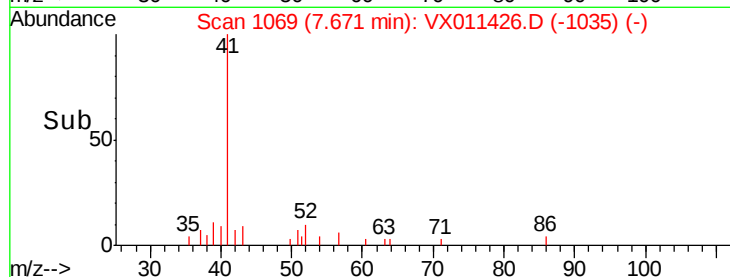
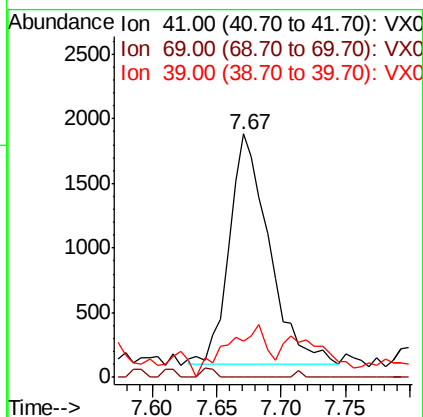
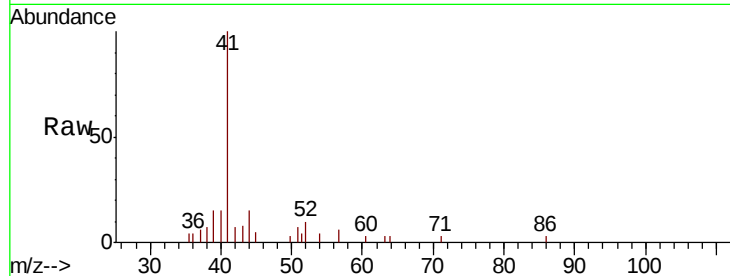




#48
Methyl methacrylate
Concen: 1.814 ug/l
RT: 7.67 min Scan# 1069
Delta R.T. -0.09 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

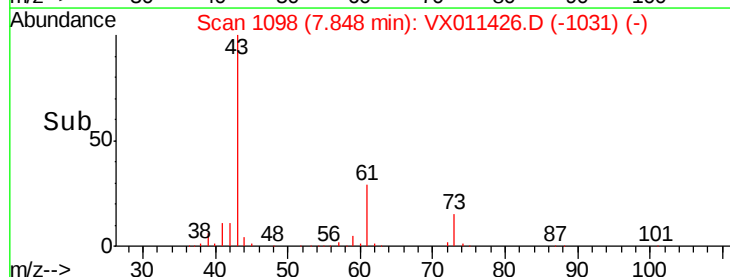
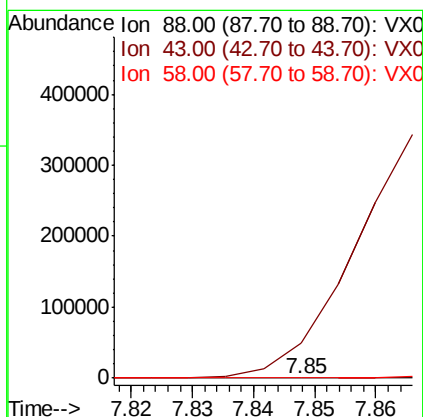
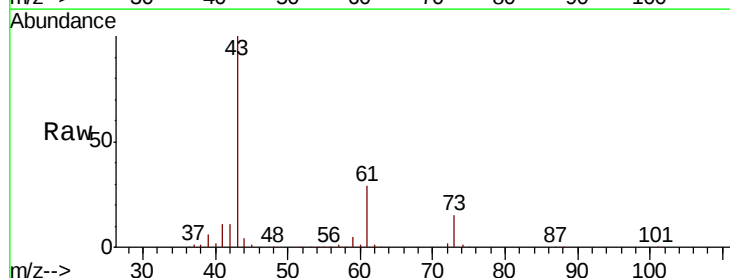
Instrument :
MSVOA_X
ClientSampleId :
2S-I4-(1)

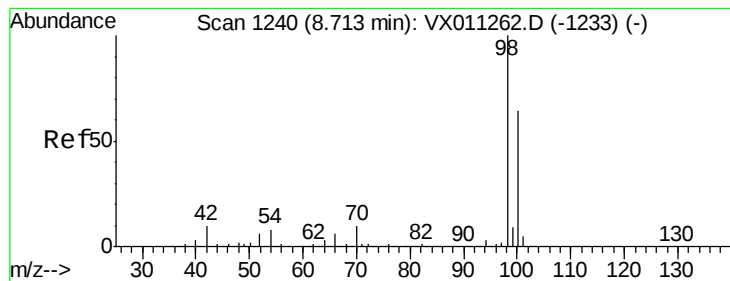
Tgt Ion: 41 Resp: 3793
Ion Ratio Lower Upper
41 100
69 0.0 74.5 111.7#
39 0.0 48.6 72.8#



#49
1,4-Dioxane
Concen: 0.792 ug/l
RT: 7.85 min Scan# 1098
Delta R.T. 0.11 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

Tgt Ion: 88 Resp: 48
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.2#
58 0.0 47.8 71.8#





#50

Toluene-d8

Concen: 48.185 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampled :

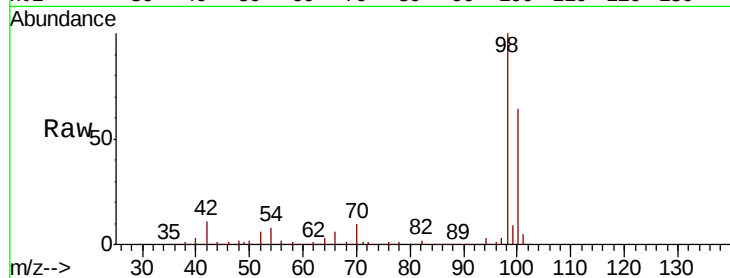
2S-I4-(1)

Tgt Ion: 98 Resp: 376892

Ion Ratio Lower Upper

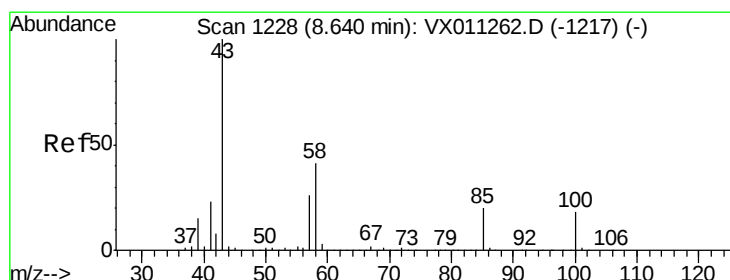
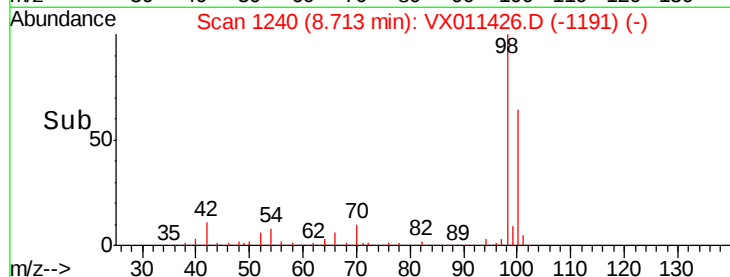
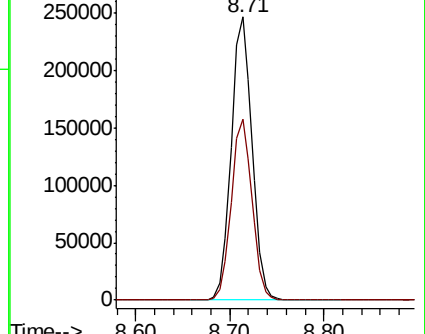
98 100

100 63.7 51.7 77.5



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: 15.341 ug/l

RT: 8.61 min Scan# 1223

Delta R.T. -0.03 min

Lab File: VX011426.D

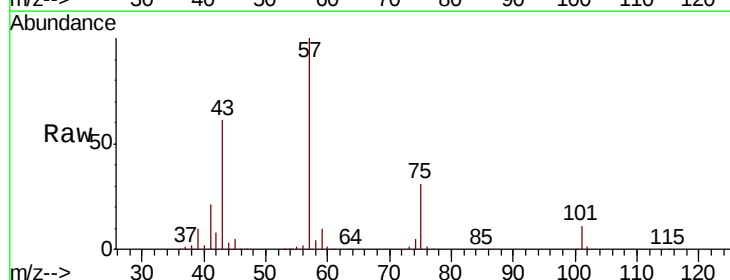
Acq: 11 Aug 2019 13:09

Tgt Ion: 43 Resp: 43997

Ion Ratio Lower Upper

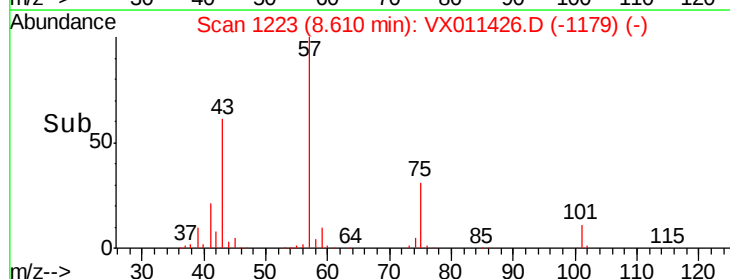
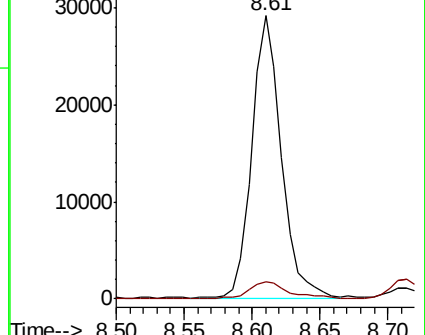
43 100

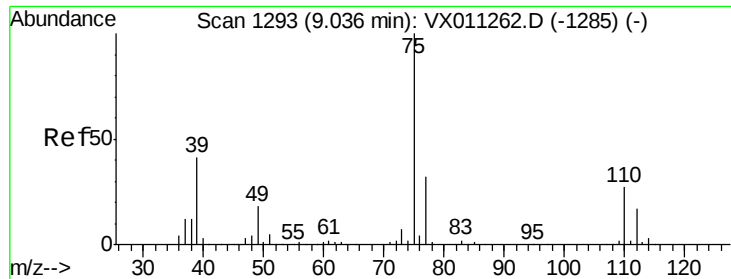
58 8.4 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

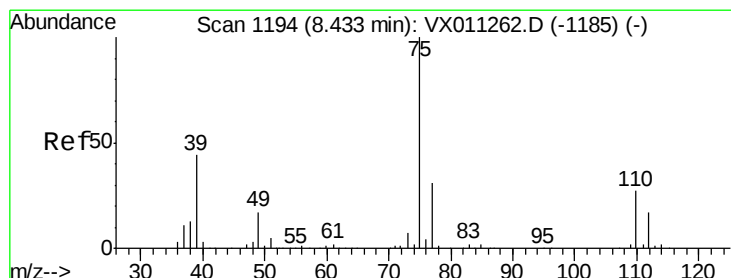
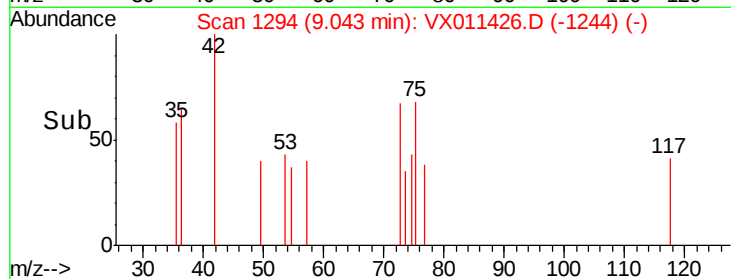
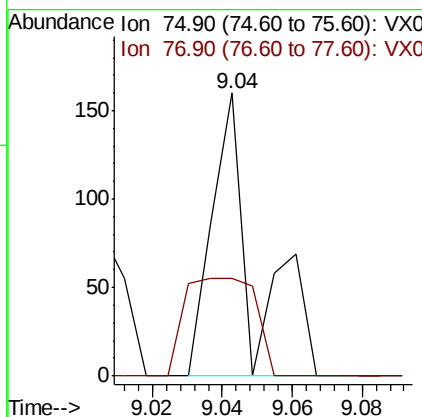
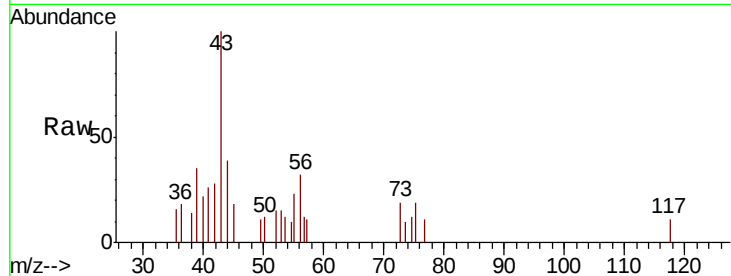




#53
t-1,3-Dichloropropene
Concen: 2.880 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.01 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

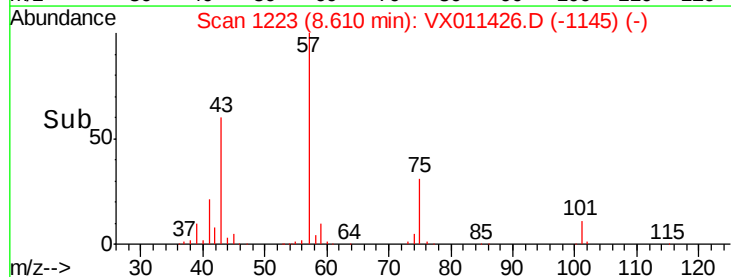
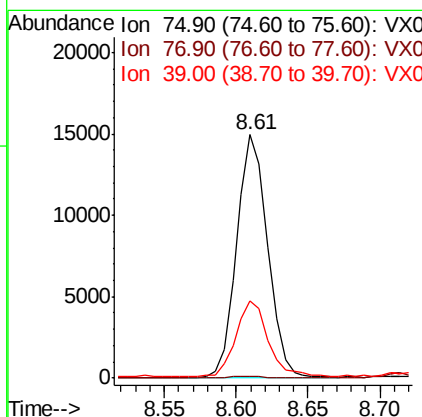
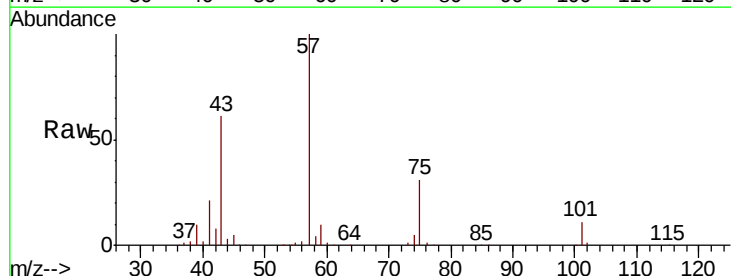
Instrument :
MSVOA_X
ClientSampleId :
2S-I4-(1)

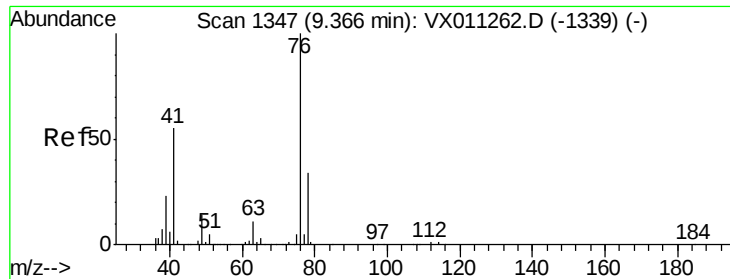
Tgt Ion: 75 Resp: 136
Ion Ratio Lower Upper
75 100
77 34.4 25.4 38.0



#54
cis-1,3-Dichloropropene
Concen: 7.261 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. 0.18 min
Lab File: VX011426.D
Acq: 11 Aug 2019 13:09

Tgt Ion: 75 Resp: 22452
Ion Ratio Lower Upper
75 100
77 0.6 25.0 37.6#
39 30.9 35.3 52.9#





#57

1,3-Dichloropropane

Concen: 1.457 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

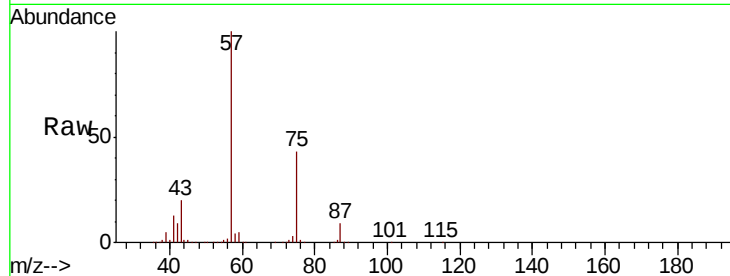
2S-I4-(1)

Tgt Ion: 76 Resp: 5179

Ion Ratio Lower Upper

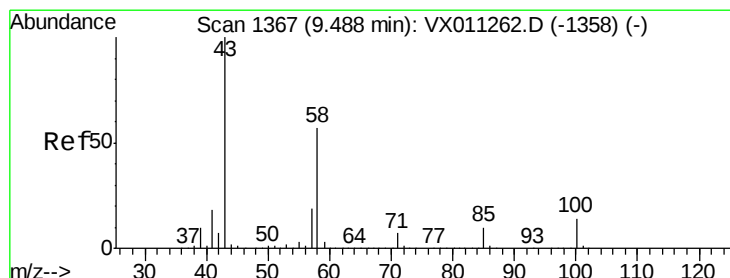
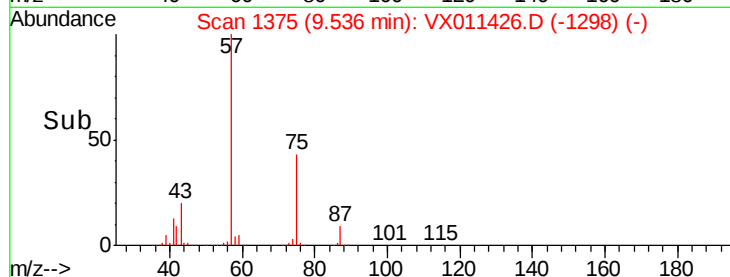
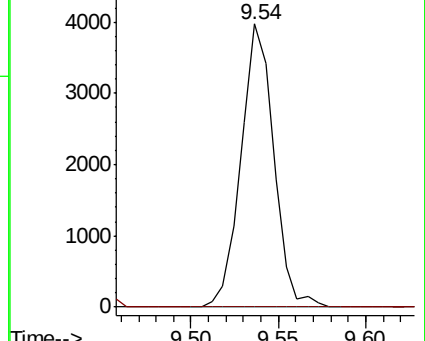
76 100

78 0.0 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: 31.948 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.05 min

Lab File: VX011426.D

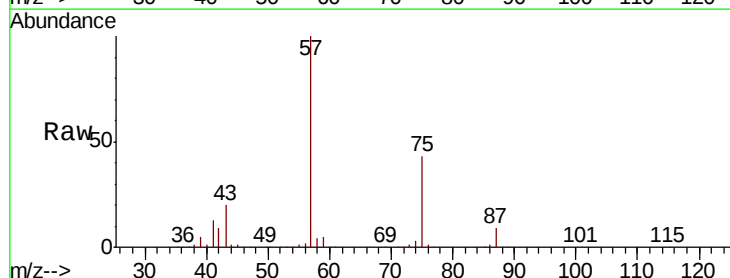
Acq: 11 Aug 2019 13:09

Tgt Ion: 43 Resp: 70969

Ion Ratio Lower Upper

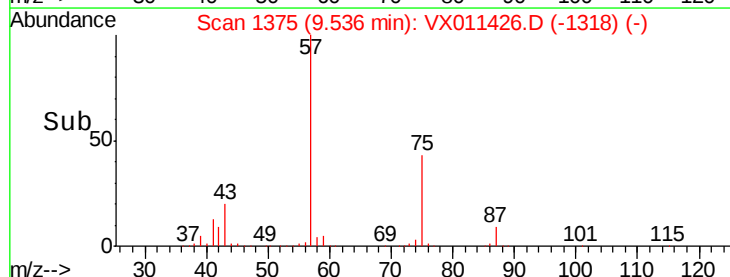
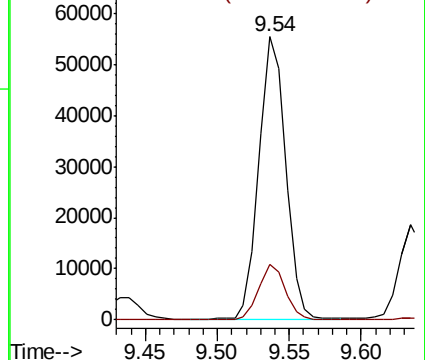
43 100

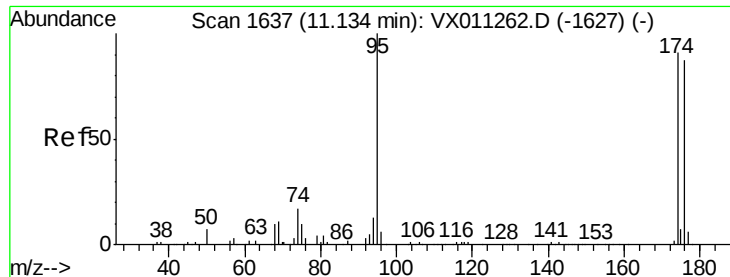
58 19.8 28.2 84.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 44.122 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

2S-I4-(1)

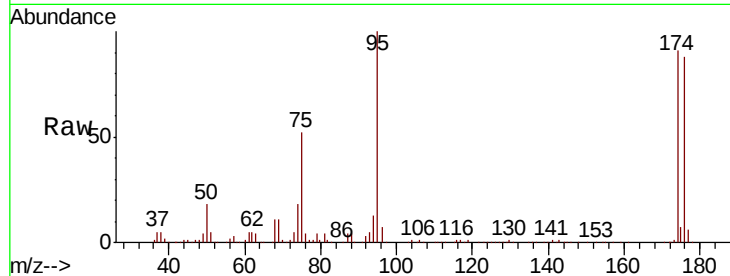
Tgt Ion: 95 Resp: 123214

Ion Ratio Lower Upper

95 100

174 91.1 0.0 191.2

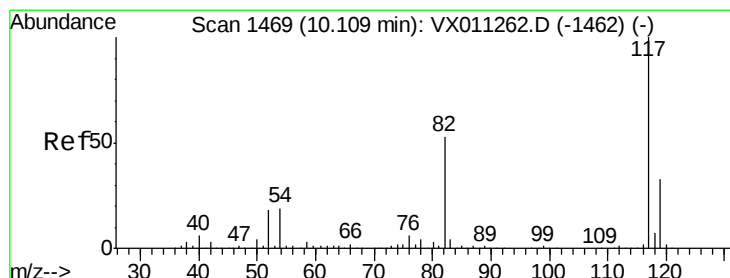
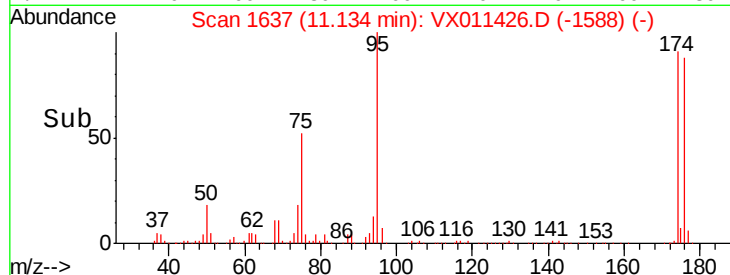
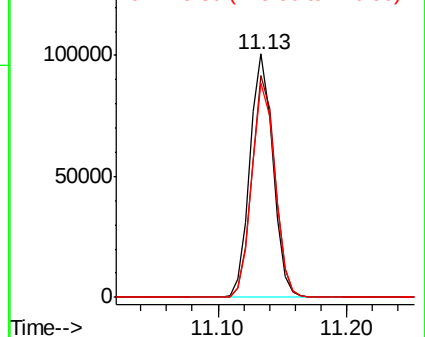
176 88.9 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX011426.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011426.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011426.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

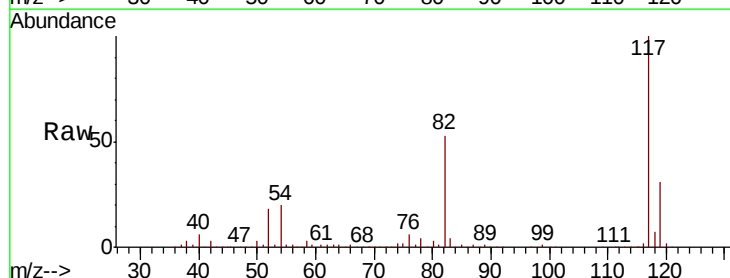
Tgt Ion: 117 Resp: 286261

Ion Ratio Lower Upper

117 100

82 53.3 42.2 63.2

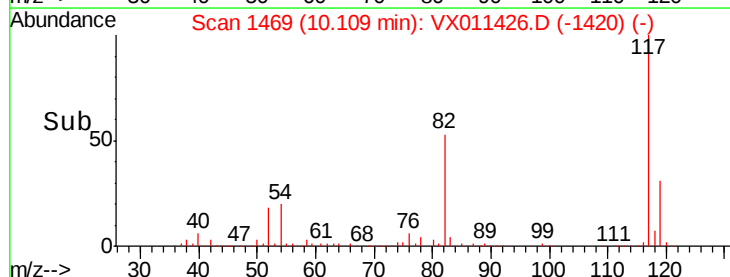
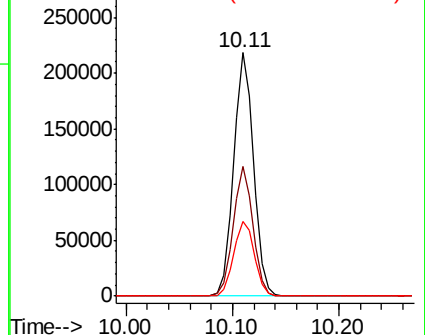
119 30.8 26.6 39.8

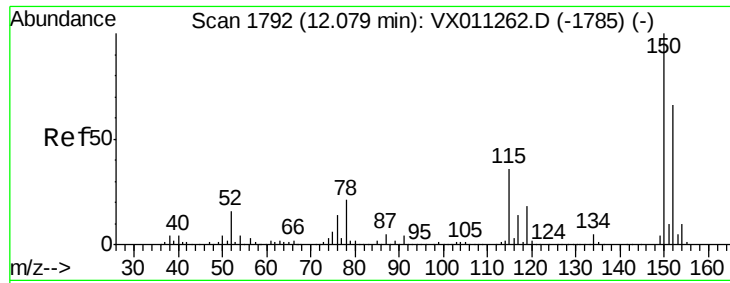


Abundance Ion 116.90 (116.60 to 117.60): VX011426.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011426.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011426.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

2S-I4-(1)

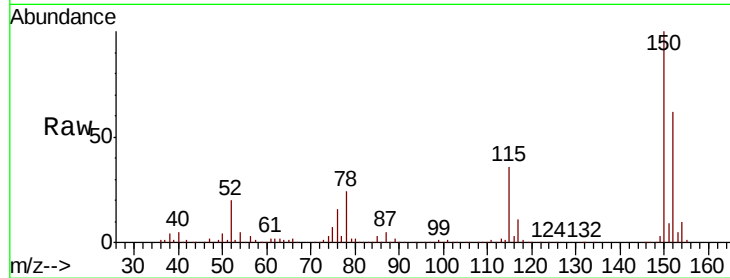
Tgt Ion:152 Resp: 127063

Ion Ratio Lower Upper

152 100

115 55.5 40.0 119.9

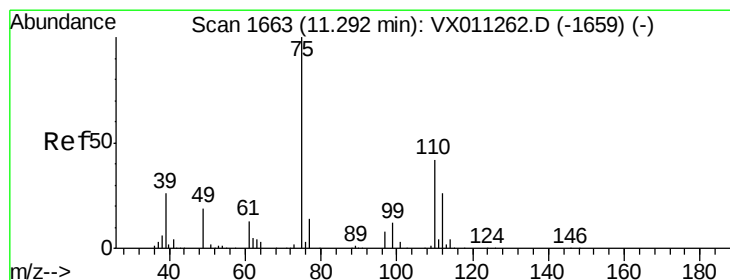
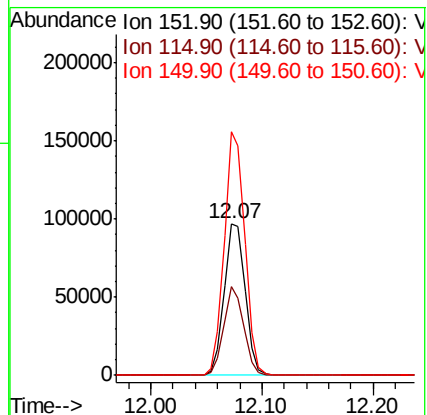
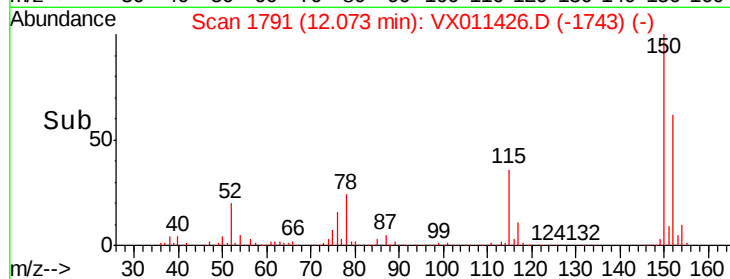
150 156.5 0.0 350.4



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: 27.200 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011426.D

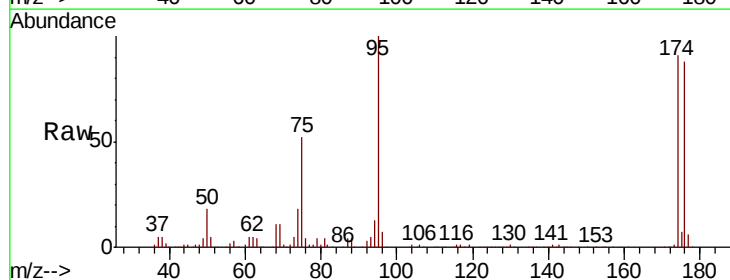
Acq: 11 Aug 2019 13:09

Tgt Ion: 75 Resp: 62940

Ion Ratio Lower Upper

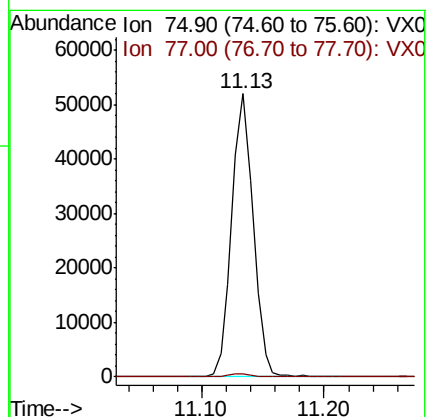
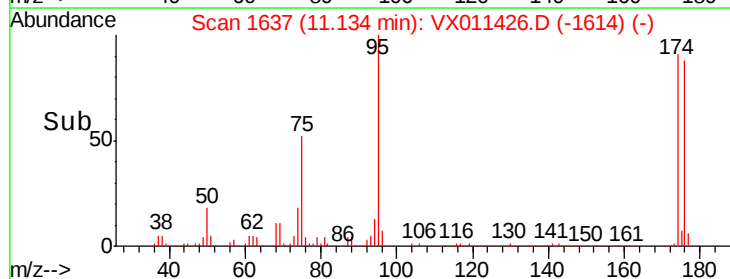
75 100

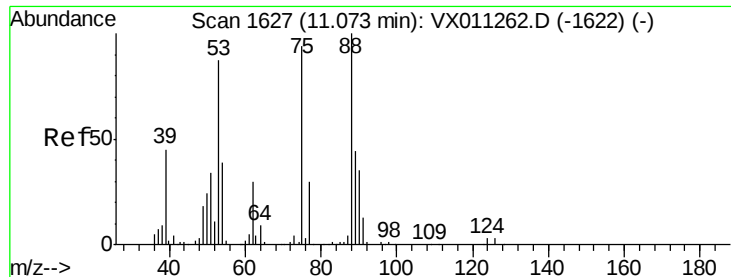
77 1.4 21.1 63.4#



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: 70.582 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011426.D

Acq: 11 Aug 2019 13:09

Instrument :

MSVOA_X

ClientSampleId :

2S-I4-(1)

Tgt Ion: 75 Resp: 62940

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.1 37.9 56.9#

