

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102418\
 Data File : VX005578.D
 Acq On : 25 Oct 2018 08:30
 Operator : JC/MD
 Sample : J5639-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 26 13:20:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	202467	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	308749	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	285838	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	133640	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	135632	54.88	ug/l	0.00
Spiked Amount			Recovery	=	109.76%	
35) Dibromofluoromethane	5.50	113	104331	49.91	ug/l	0.00
Spiked Amount			Recovery	=	99.82%	
50) Toluene-d8	8.71	98	375022	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
62) 4-Bromofluorobenzene	11.14	95	123668	43.59	ug/l	0.00
Spiked Amount			Recovery	=	87.18%	

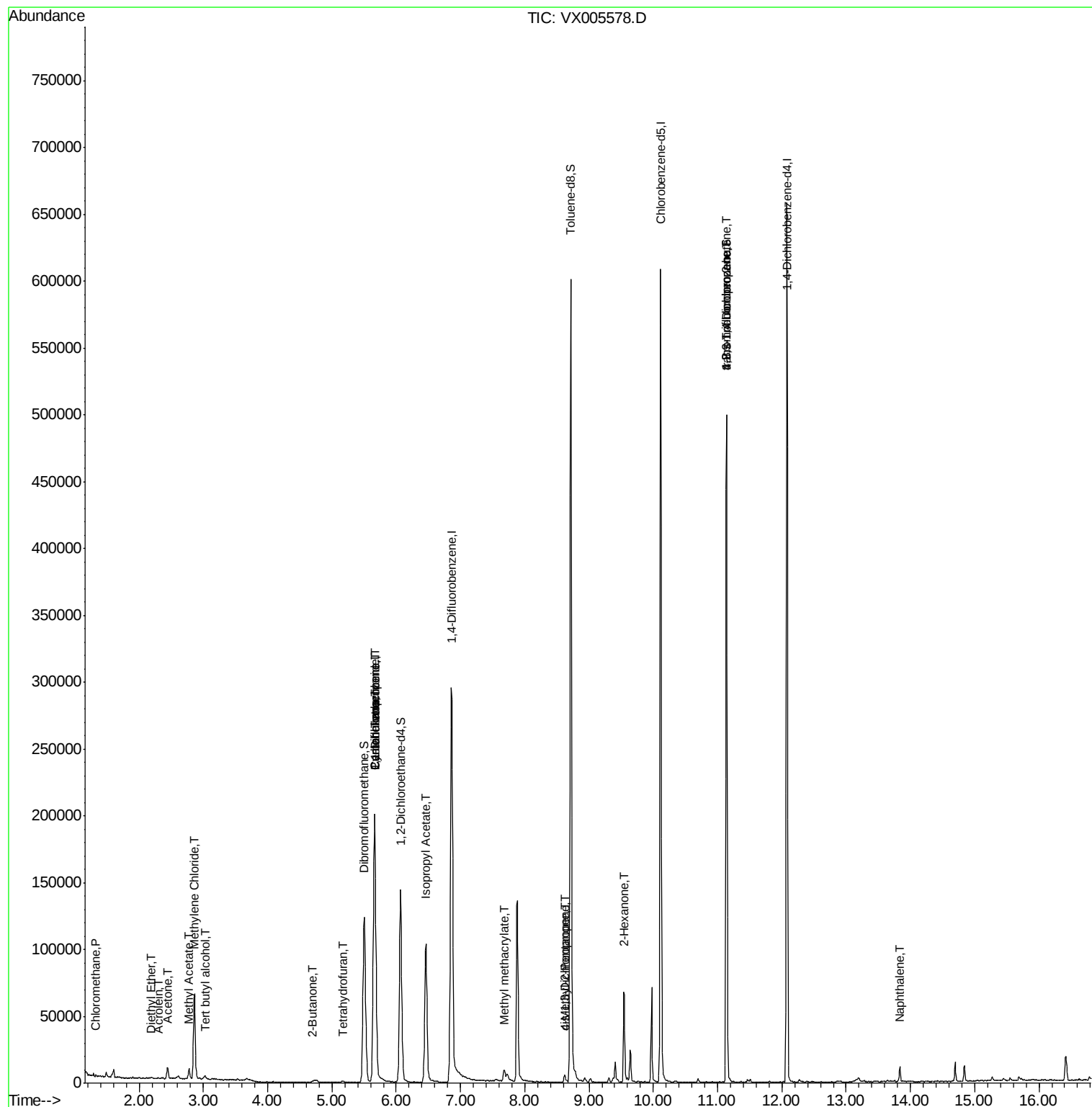
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	863	0.339	ug/l #	76
8) Diethyl Ether	2.18	74	335	0.241	ug/l	61
11) Tert butyl alcohol	3.03	59	1771	2.663	ug/l #	79
13) Acrolein	2.29	56	115	0.339	ug/l #	1
16) Acetone	2.44	43	9071	6.946	ug/l	99
18) Methyl Acetate	2.78	43	8589	1.237	ug/l	100
20) Methylene Chloride	2.86	84	29266	13.380	ug/l	96
25) 2-Butanone	4.70	43	1834	0.922	ug/l #	74
29) Tetrahydrofuran	5.17	42	909	0.702	ug/l #	77
31) Cyclohexane	5.66	56	3948	1.185	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13886	4.634	ug/l #	50
38) Carbon Tetrachloride	5.67	117	18935	6.000	ug/l #	16
43) Isopropyl Acetate	6.46	43	139535	24.354	ug/l	99
48) Methyl methacrylate	7.68	41	5657	2.027	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2453	0.637	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	881	0.262	ug/l #	70
59) 2-Hexanone	9.55	43	8199	2.701	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	62598	22.108	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.14	75	62598	72.237	ug/l #	9
95) Naphthalene	13.83	128	6486	0.711	ug/l	97

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

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QLast Update : Thu Oct 25 02:52:45 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

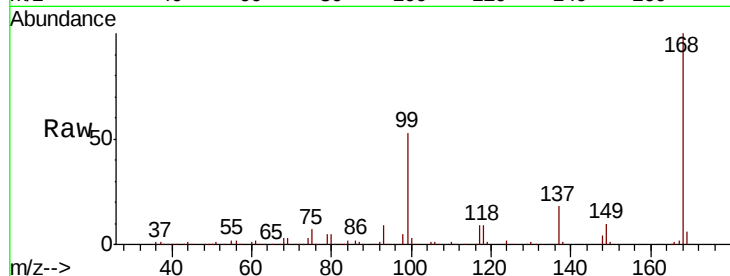
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 202467

Ion Ratio Lower Upper

168 100

99 52.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

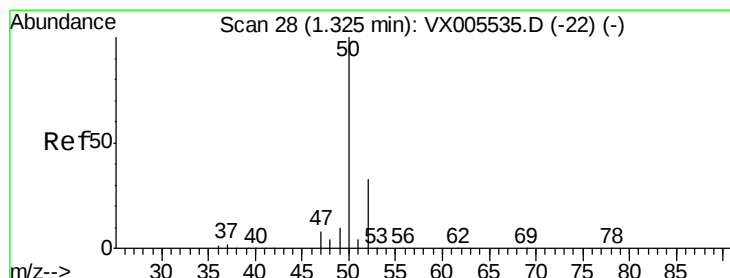
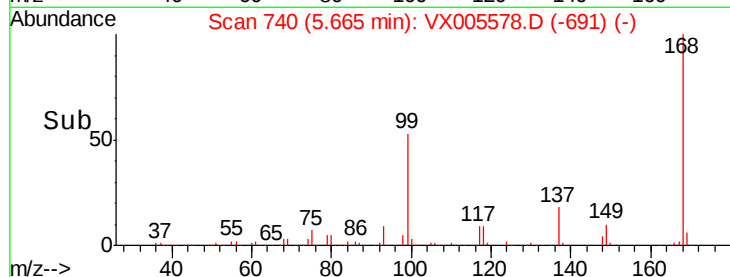
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.339 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX005578.D

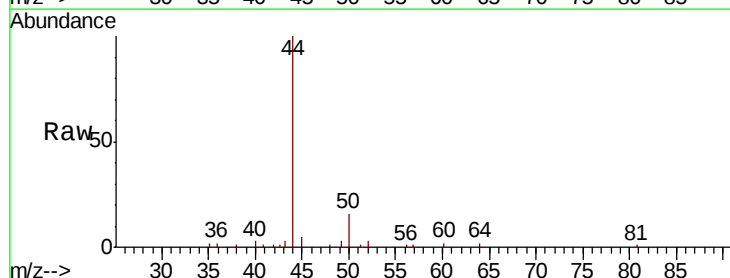
Acq: 25 Oct 2018 08:30

Tgt Ion: 50 Resp: 863

Ion Ratio Lower Upper

50 100

52 19.1 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

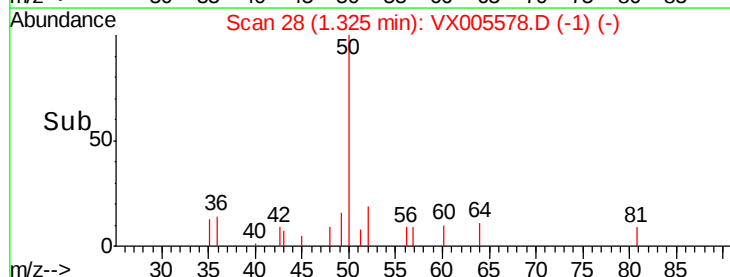
600

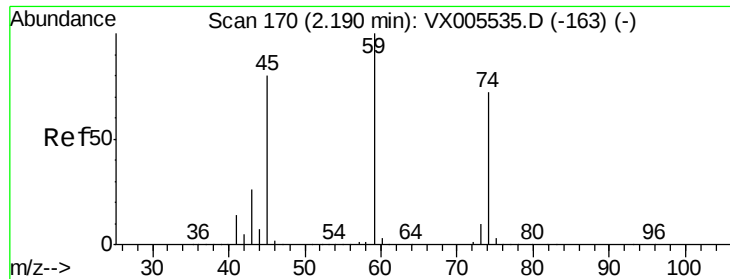
400

200

0

Time--> 1.30 1.35





#8

Diethyl Ether

Concen: 0.241 ug/l

RT: 2.18 min Scan# 169

Delta R.T. -0.01 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

Instrument :

MSVOA_X

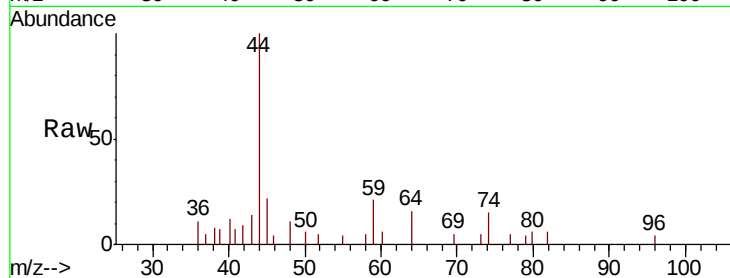
ClientSampled :

Tot Ion: 74 Resp: 335

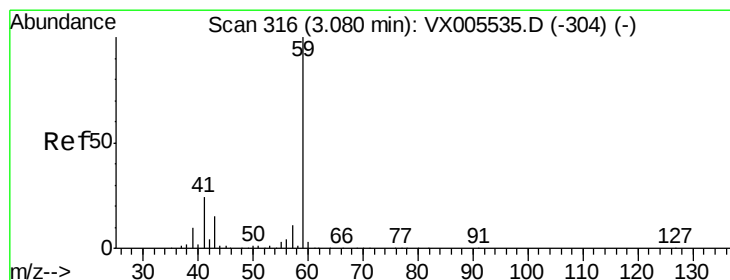
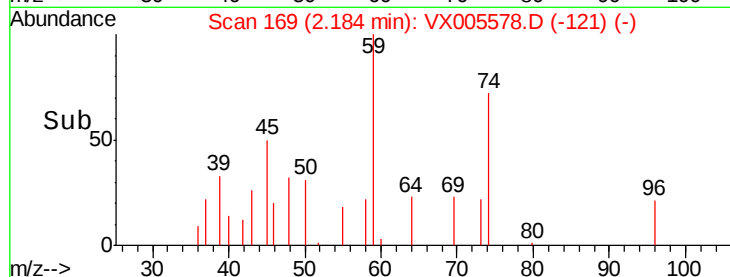
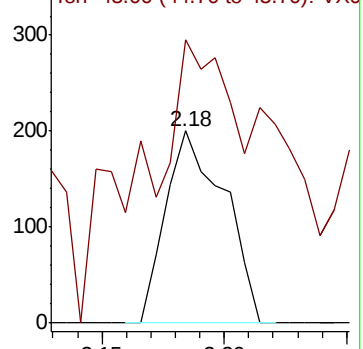
Ion Ratio Lower Upper

74 100

45 67.8 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0



#11

Tert butyl alcohol

Concen: 2.663 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.05 min

Lab File: VX005578.D

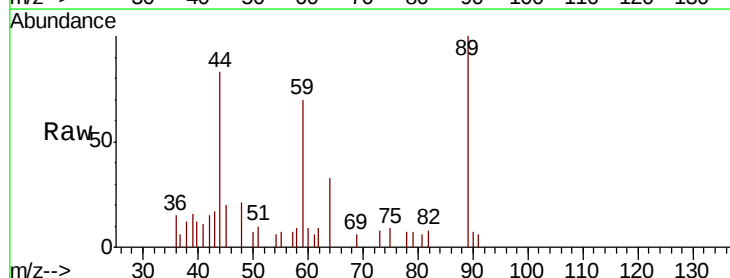
Acq: 25 Oct 2018 08:30

Tgt Ion: 59 Resp: 1771

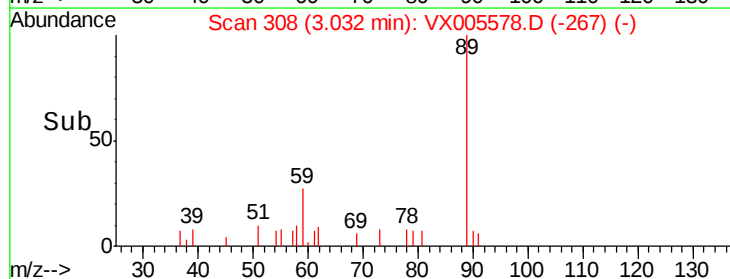
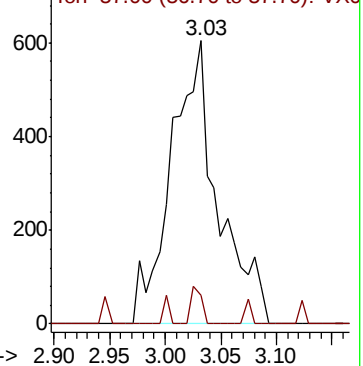
Ion Ratio Lower Upper

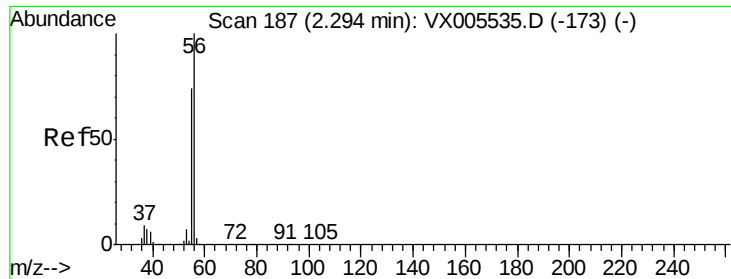
59 100

57 2.9 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

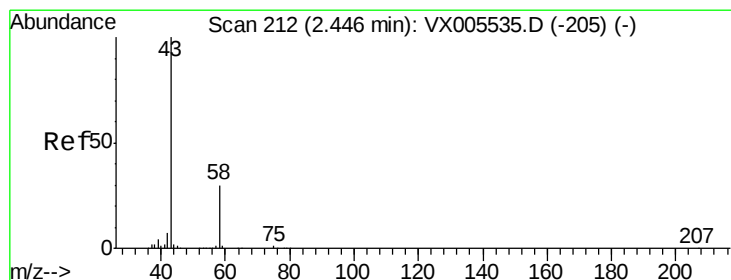
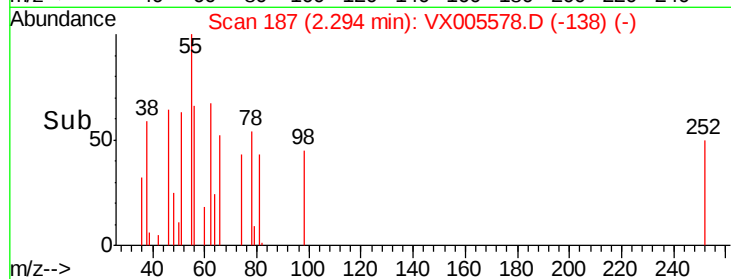
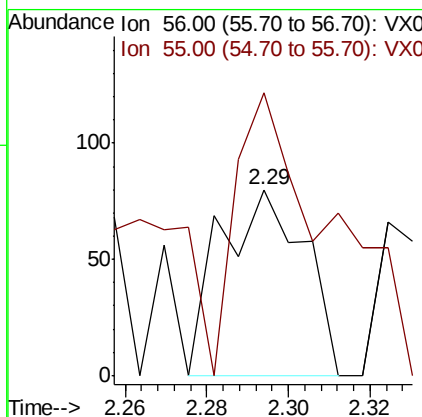
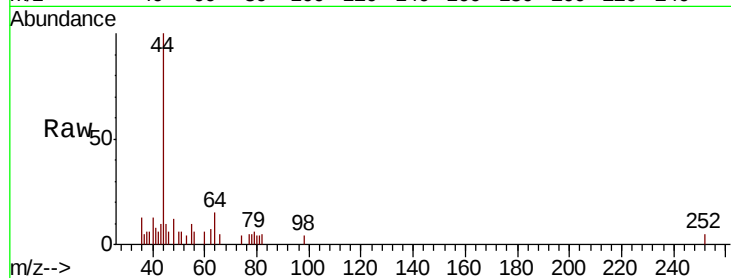




#13
Acrolein
Concen: 0.339 ug/l
RT: 2.29 min Scan# 187
Delta R.T. -0.00 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

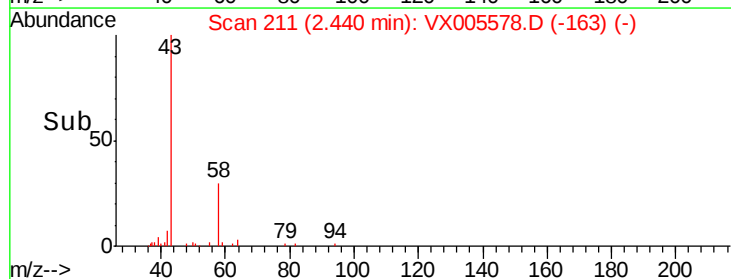
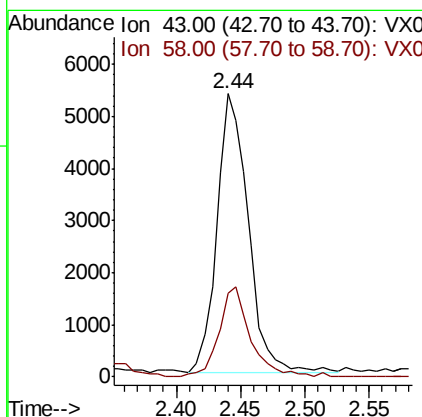
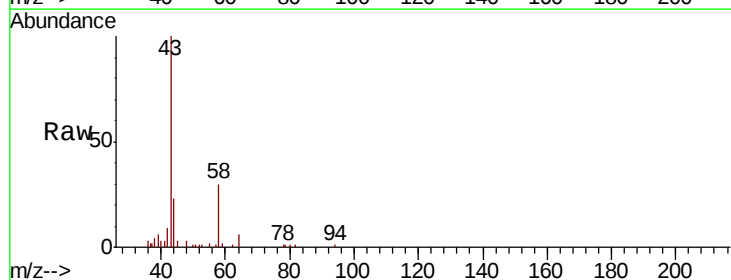
Instrument :
MSVOA_X
ClientSampleId :

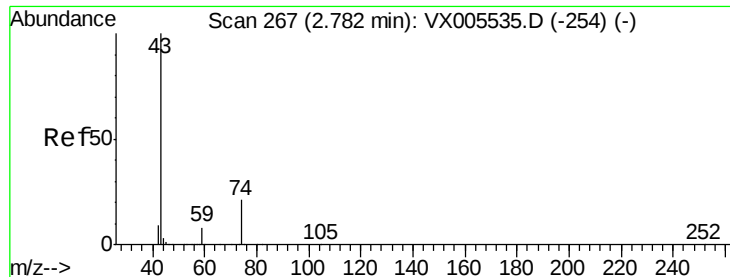
Tot Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 172.2 57.3 85.9#



#16
Acetone
Concen: 6.946 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

Tgt Ion: 43 Resp: 9071
Ion Ratio Lower Upper
43 100
58 30.0 23.8 35.6

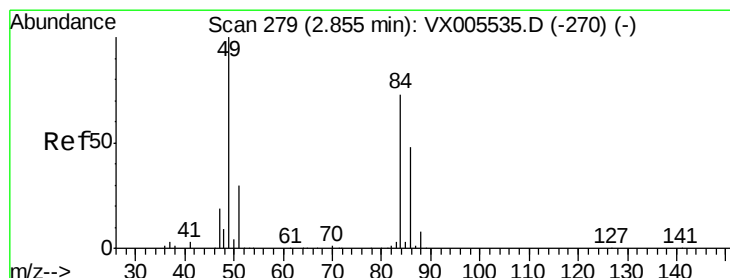
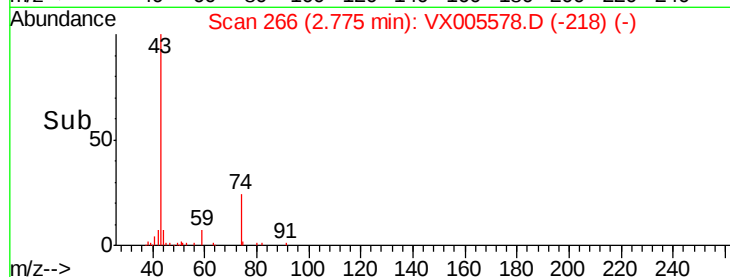
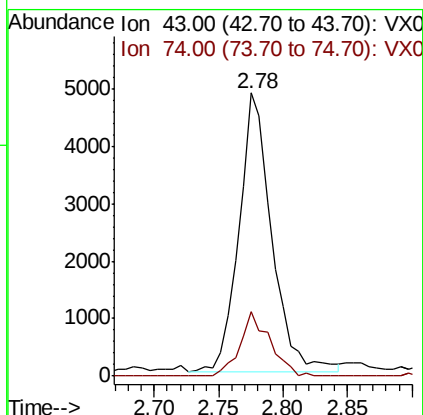
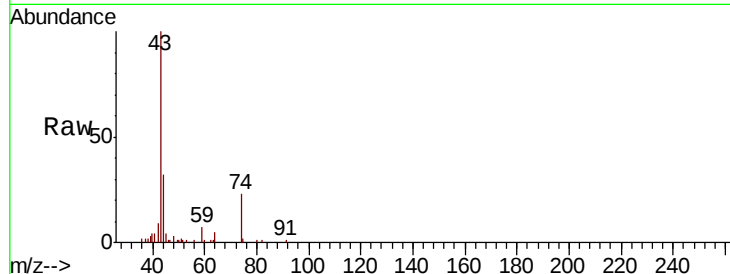




#18
Methyl Acetate
Concen: 1.237 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

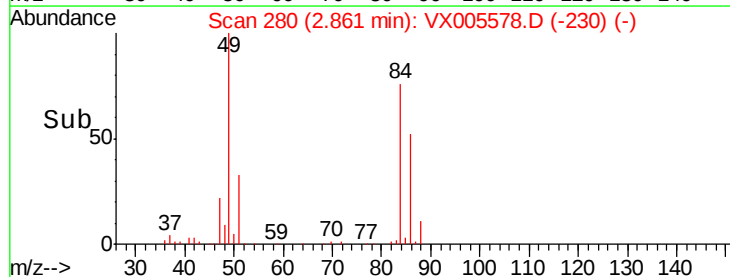
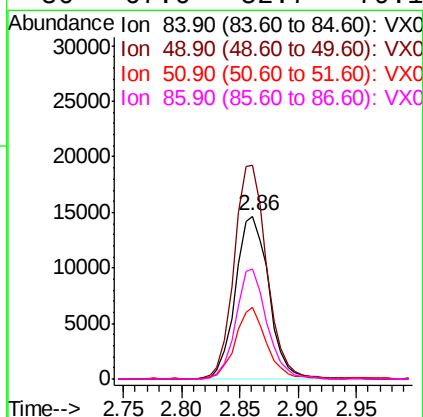
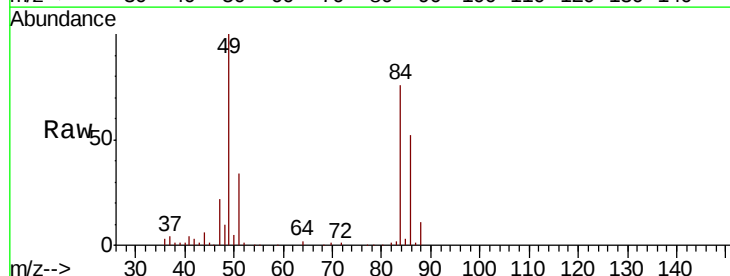
Instrument :
MSVOA_X
ClientSampled :

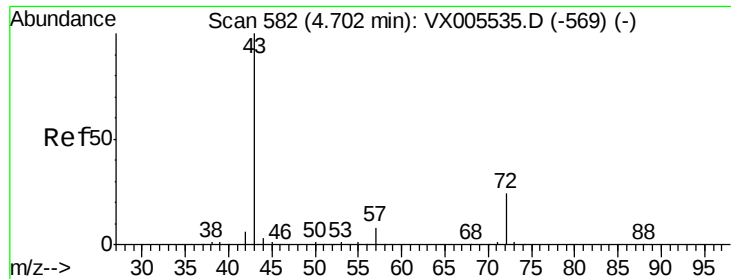
Tot Ion: 43 Resp: 8589
Ion Ratio Lower Upper
43 100
74 21.0 16.8 25.2



#20
Methylene Chloride
Concen: 13.380 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

Tgt Ion: 84 Resp: 29266
Ion Ratio Lower Upper
84 100
49 130.9 109.5 164.3
51 43.8 33.3 49.9
86 67.6 52.7 79.1





#25

2-Butanone

Concen: 0.922 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.01 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

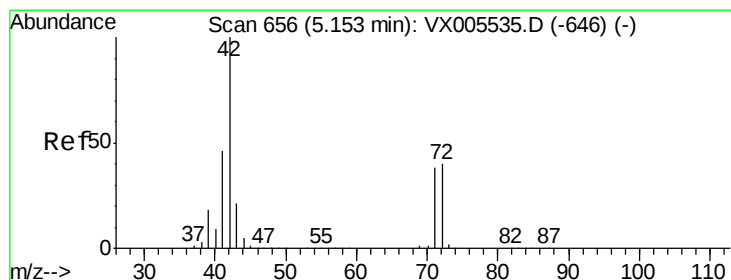
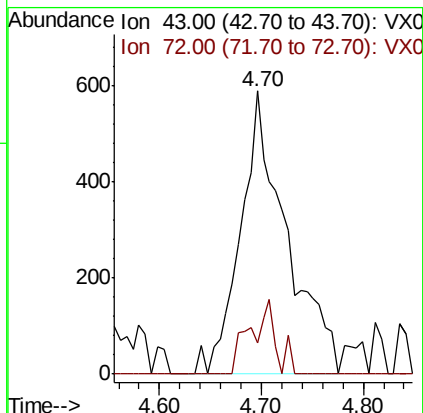
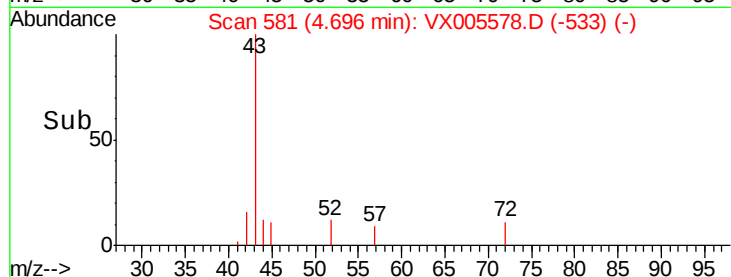
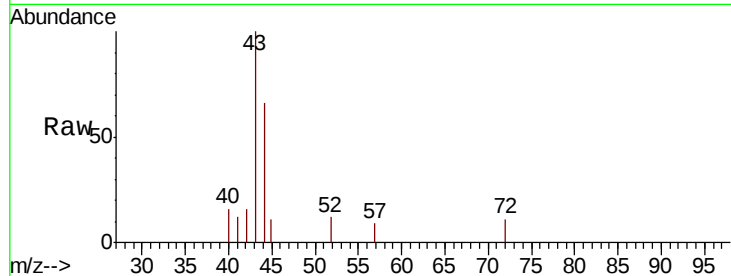
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1834

Ion Ratio Lower Upper

43 100

72 11.2 19.2 28.8#



#29

Tetrahydrofuran

Concen: 0.702 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

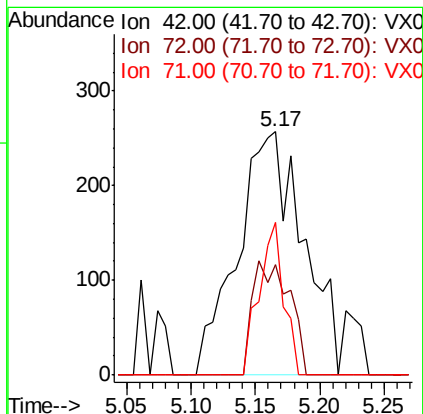
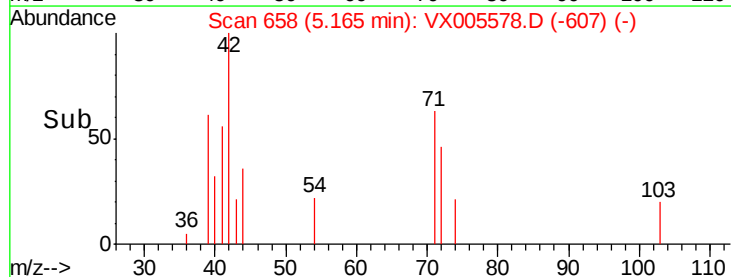
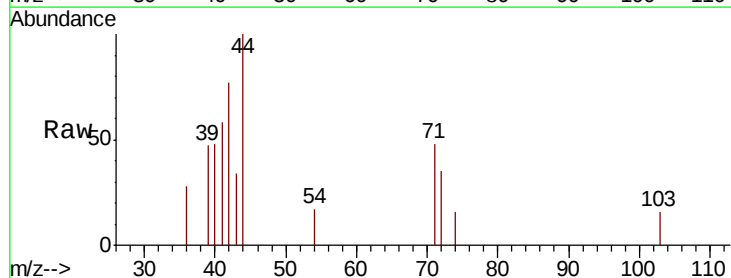
Tgt Ion: 42 Resp: 909

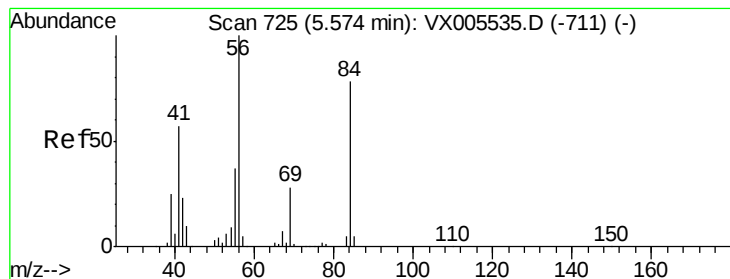
Ion Ratio Lower Upper

42 100

72 26.0 32.0 48.0#

71 23.2 29.8 44.8#





#31

Cyclohexane

Concen: 1.185 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

Instrument :

MSVOA_X

ClientSampled :

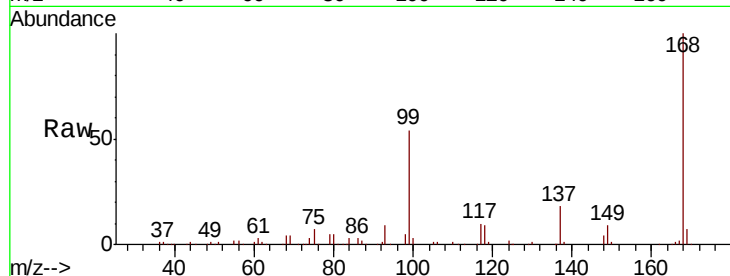
Tot Ion: 56 Resp: 3948

Ion Ratio Lower Upper

56 100

69 159.4 22.6 34.0#

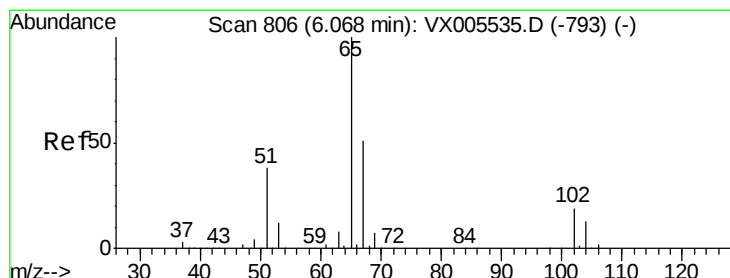
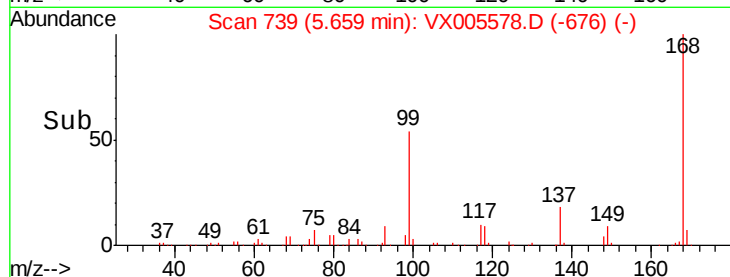
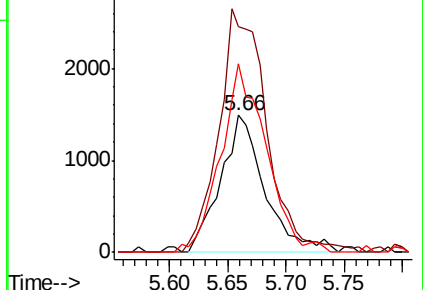
84 138.0 62.7 94.1#



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: 54.878 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005578.D

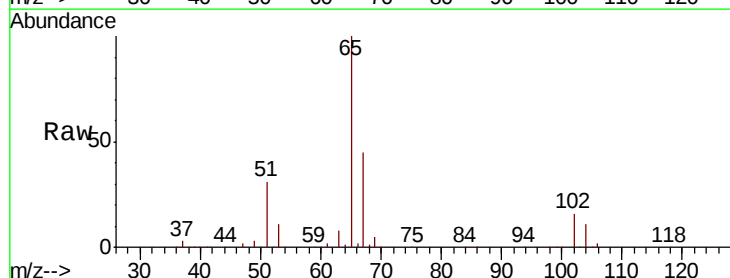
Acq: 25 Oct 2018 08:30

Tgt Ion: 65 Resp: 135632

Ion Ratio Lower Upper

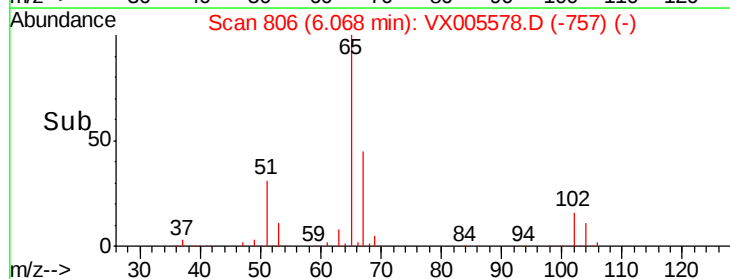
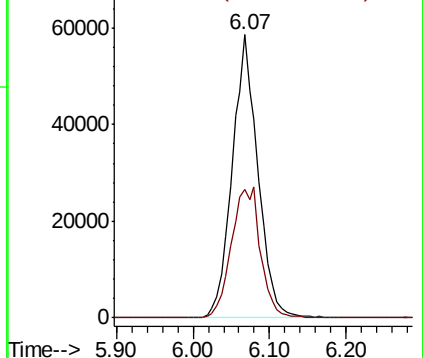
65 100

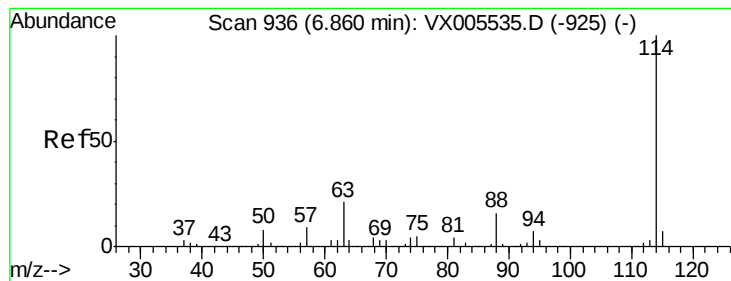
67 52.6 0.0 105.0



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: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

Instrument :

MSVOA_X

ClientSampleId :

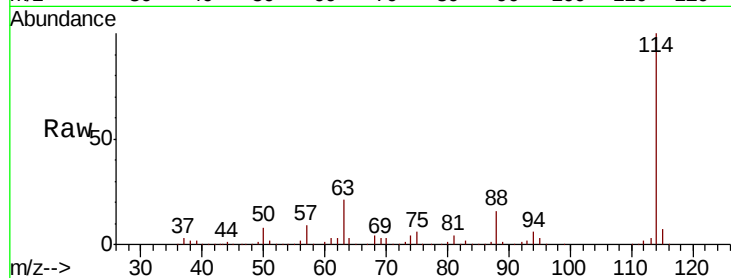
Tot Ion:114 Resp: 308749

Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.8

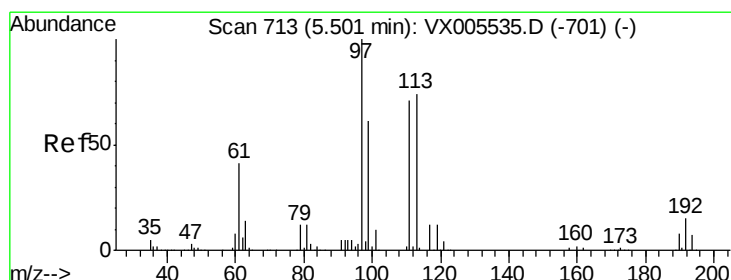
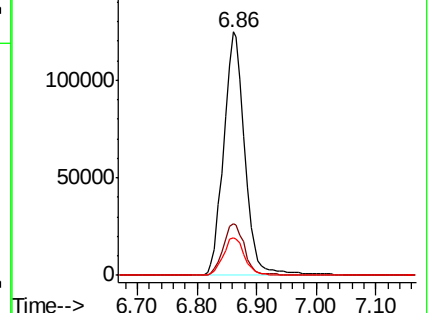
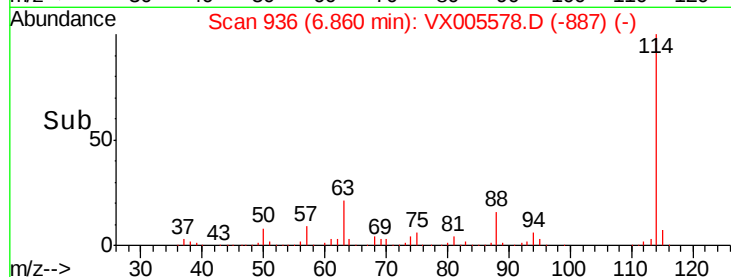
88 15.5 0.0 31.2



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: 49.905 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

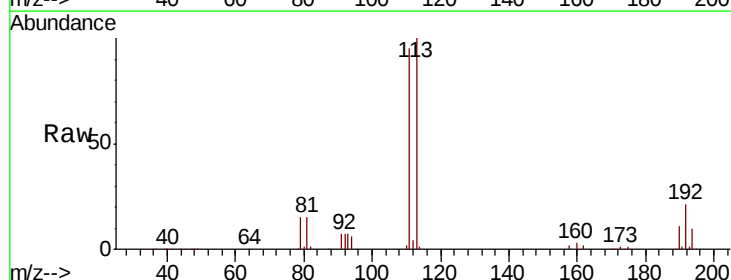
Tgt Ion:113 Resp: 104331

Ion Ratio Lower Upper

113 100

111 101.0 82.3 123.5

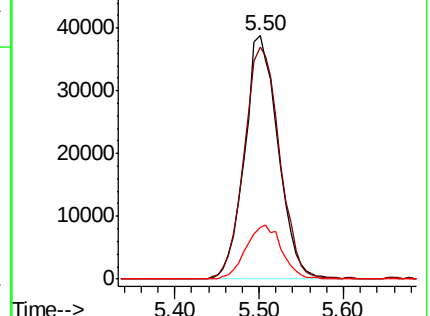
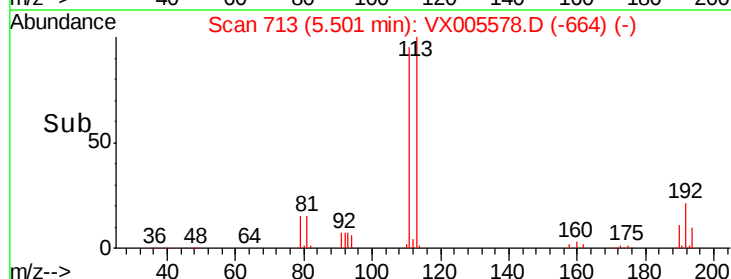
192 23.7 17.9 26.9

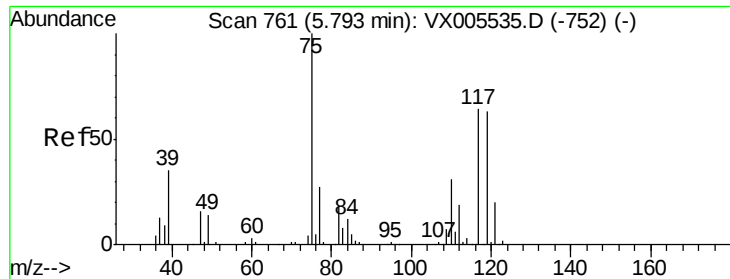


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

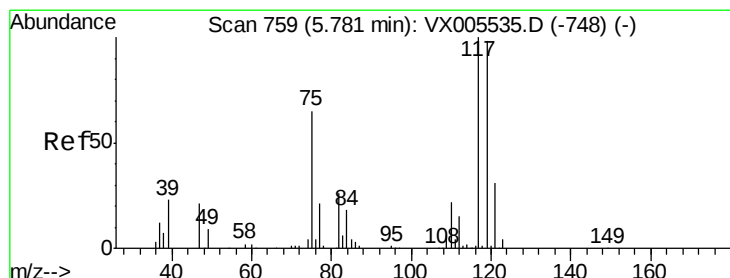
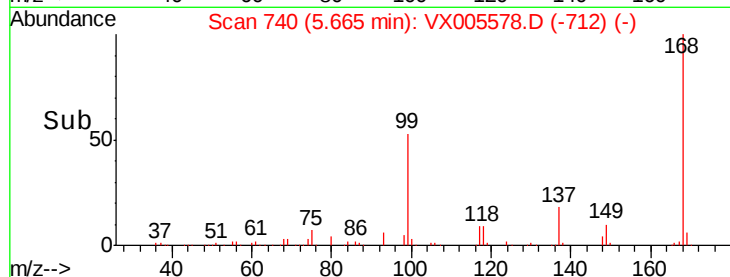
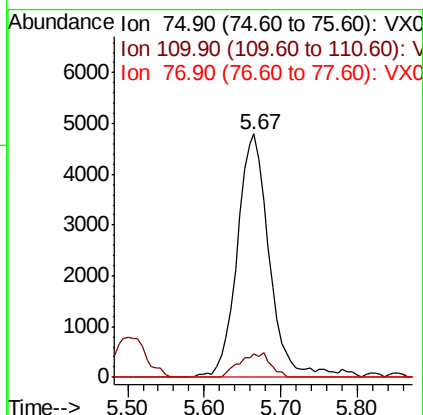
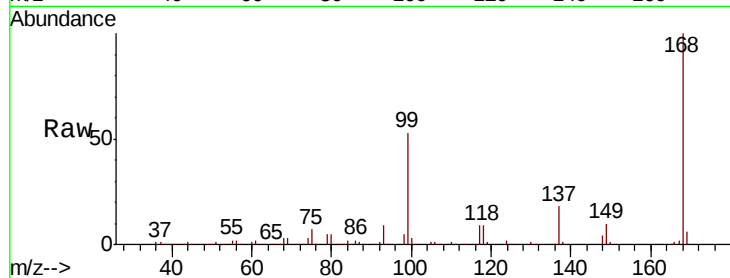




#36
 1,1-Dichloropropene
 Concen: 4.634 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005578.D
 Acq: 25 Oct 2018 08:30

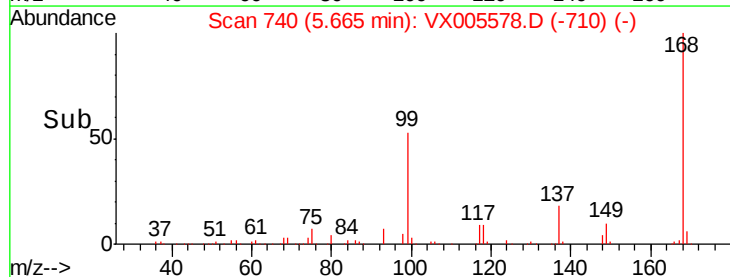
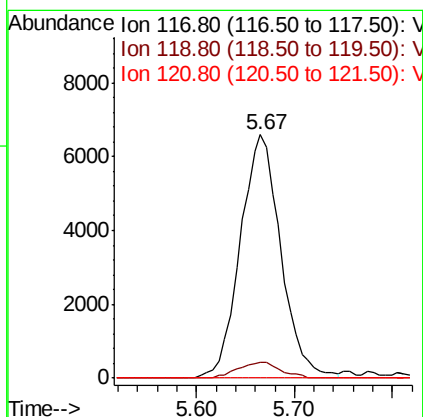
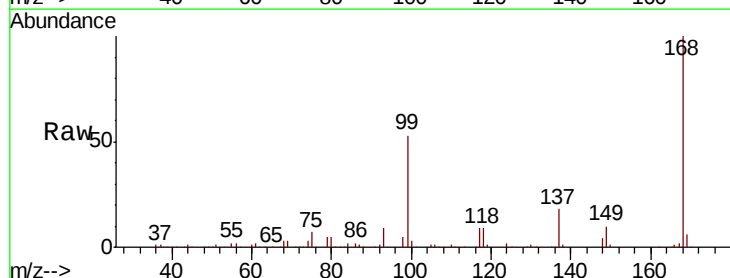
Instrument :
 MSVOA_X
 ClientSampled :

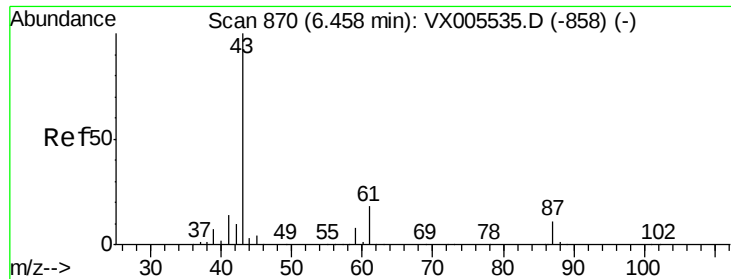
Tot Ion	75	Resp	13886
Ion Ratio	100	Lower	Upper
75	100		
110	9.6	17.4	52.2#
77	0.0	25.8	38.6#



#38
 Carbon Tetrachloride
 Concen: 6.000 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005578.D
 Acq: 25 Oct 2018 08:30

Tgt Ion	117	Resp	18935
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.4	78.1	117.1#
121	0.0	24.6	36.8#





#43

Isopropyl Acetate

Concen: 24.354 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

Instrument :

MSVOA_X

ClientSampleId :

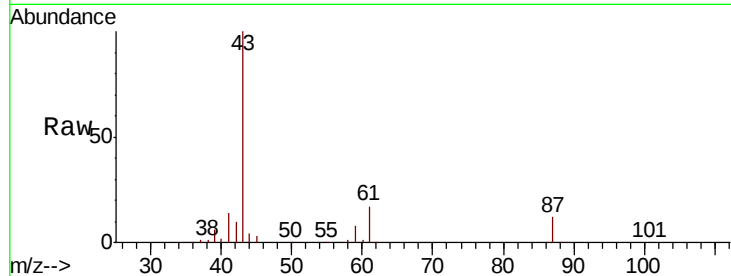
Tot Ion: 43 Resp: 139535

Ion Ratio Lower Upper

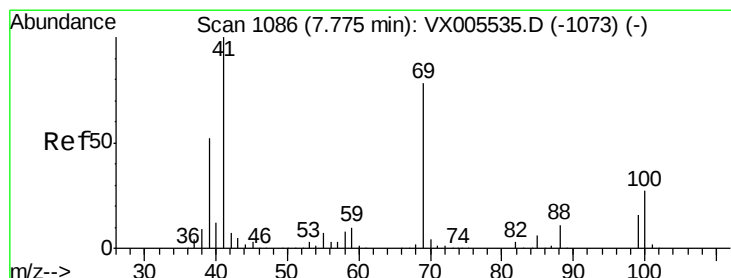
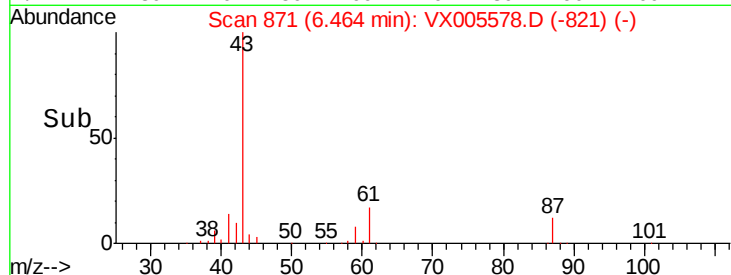
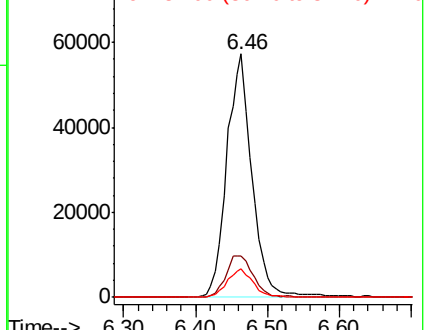
43 100

61 18.8 14.6 22.0

87 12.0 9.6 14.4



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: 2.027 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

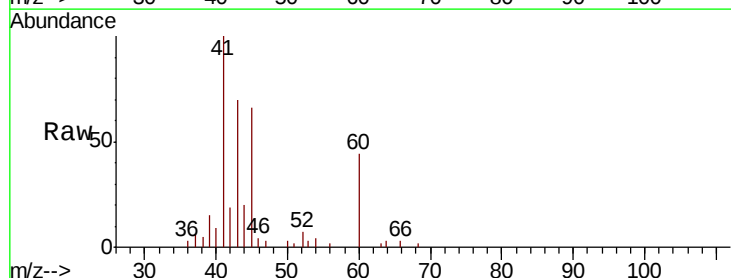
Tgt Ion: 41 Resp: 5657

Ion Ratio Lower Upper

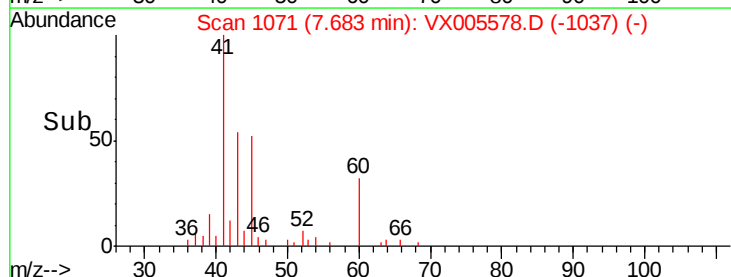
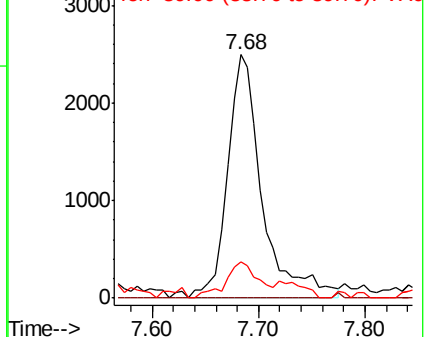
41 100

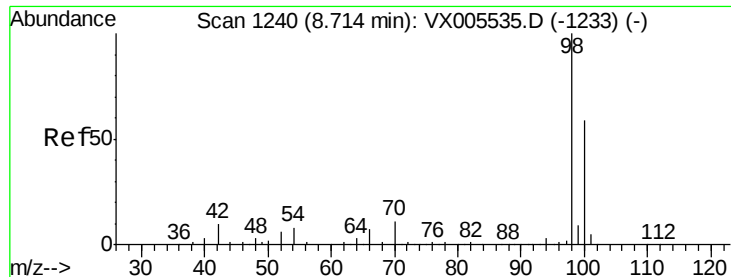
69 0.0 63.2 94.8#

39 14.1 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

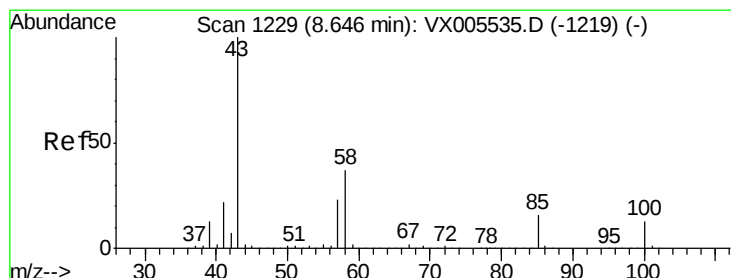
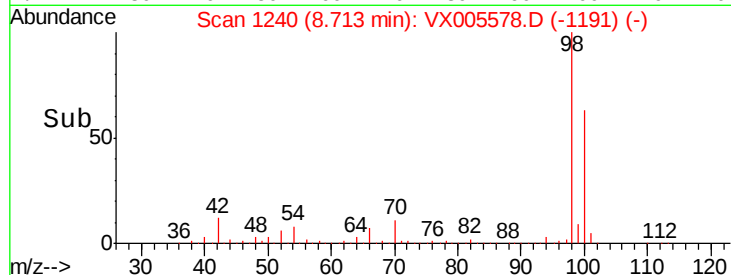
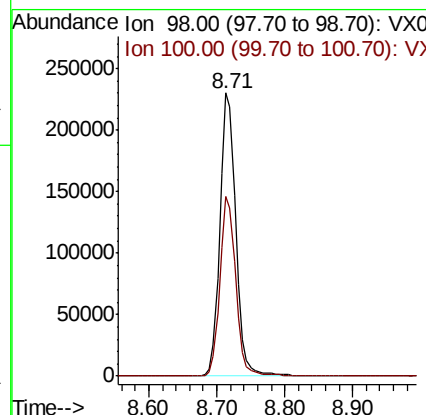
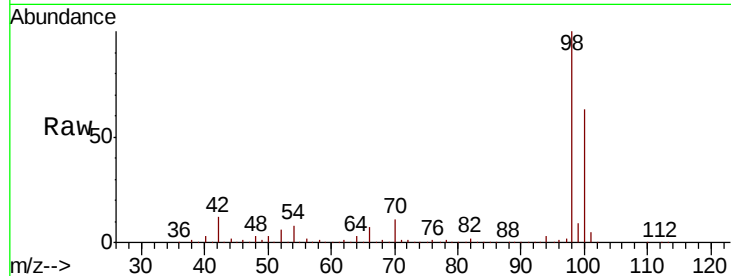




#50
Toluene-d8
Concen: 49.924 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

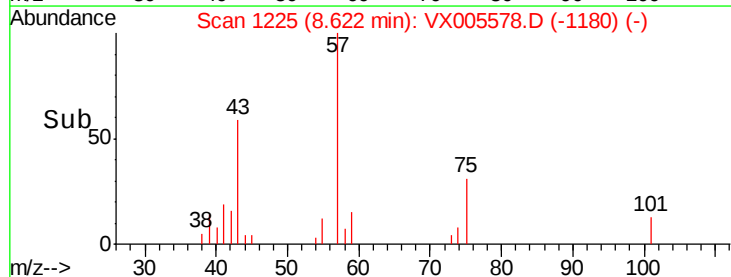
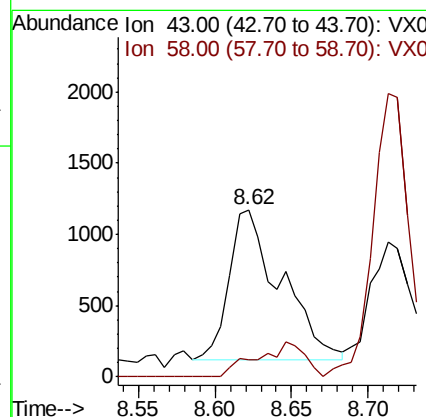
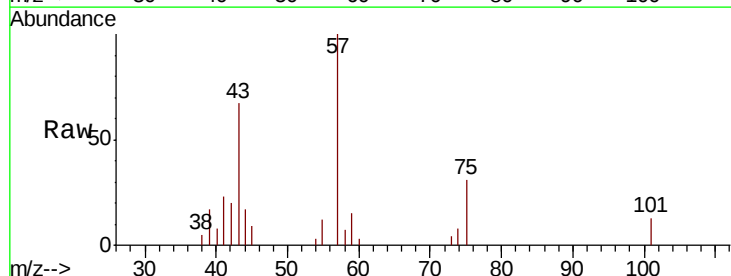
Instrument :
MSVOA_X
ClientSampled :

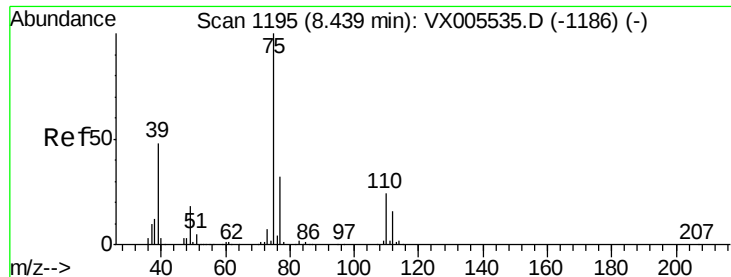
Tot Ion: 98 Resp: 375022
Ion Ratio Lower Upper
98 100
100 63.3 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.637 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

Tgt Ion: 43 Resp: 2453
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#

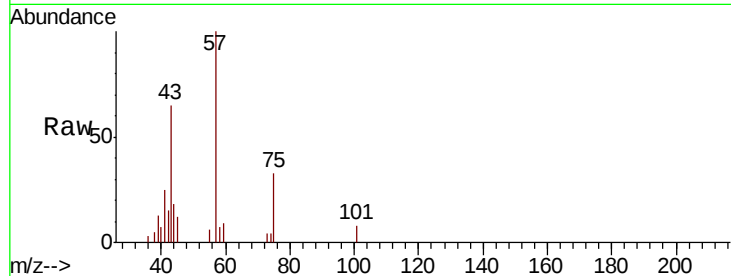




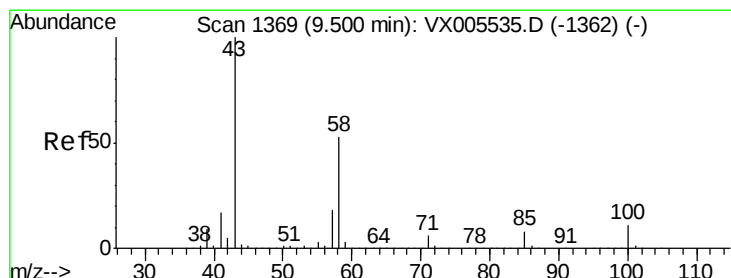
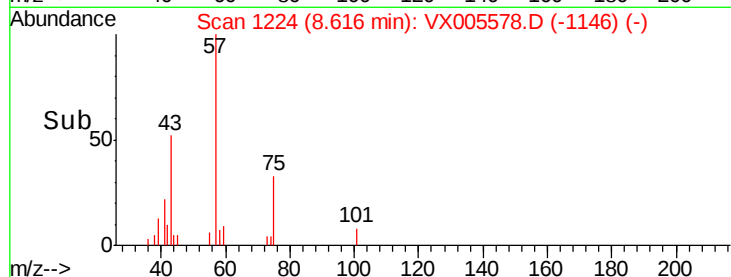
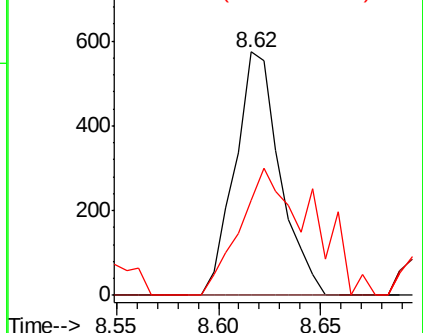
#54
 cis-1,3-Dichloropropene
 Concen: 0.262 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005578.D
 Acq: 25 Oct 2018 08:30

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 881
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 39.2 38.2 57.2

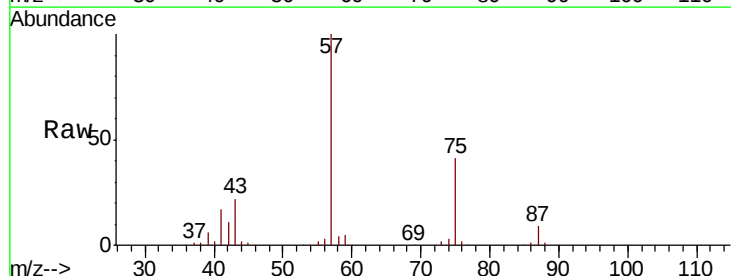


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

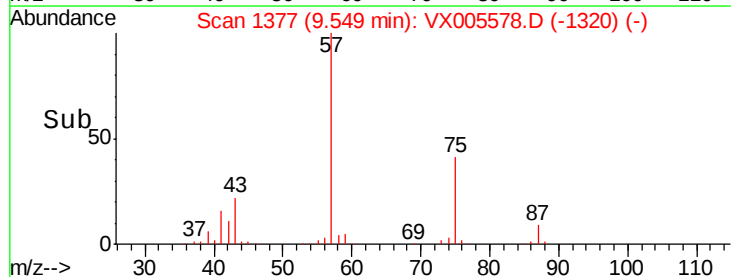
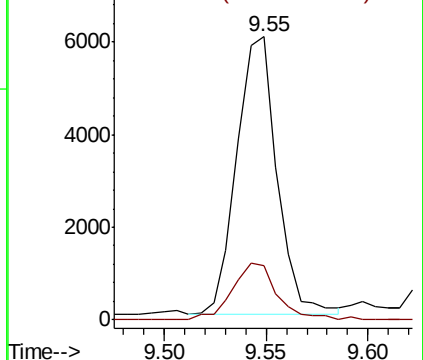


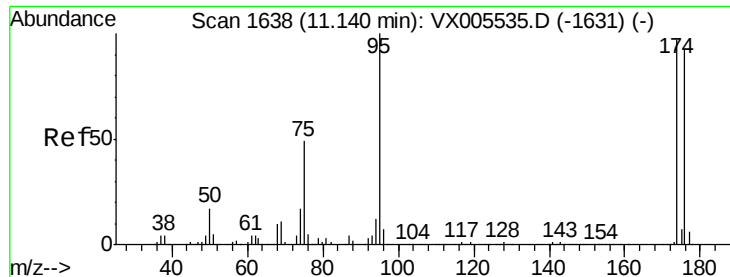
#59
 2-Hexanone
 Concen: 2.701 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX005578.D
 Acq: 25 Oct 2018 08:30

Tgt Ion: 43 Resp: 8199
 Ion Ratio Lower Upper
 43 100
 58 22.7 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

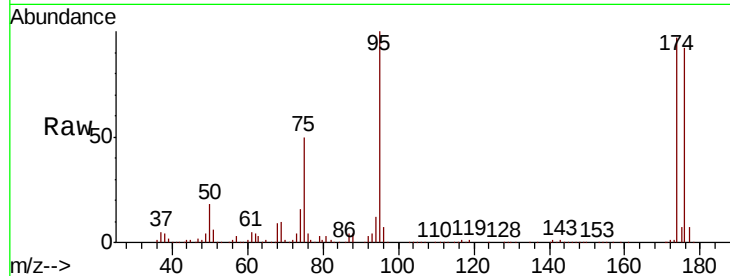




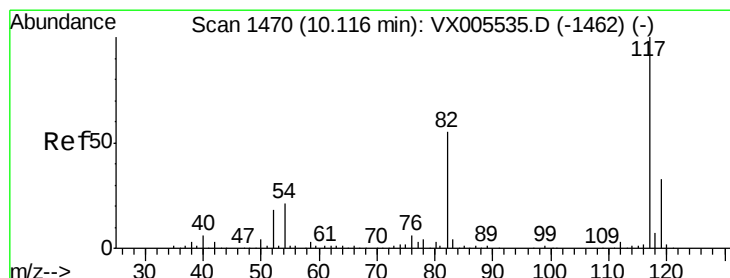
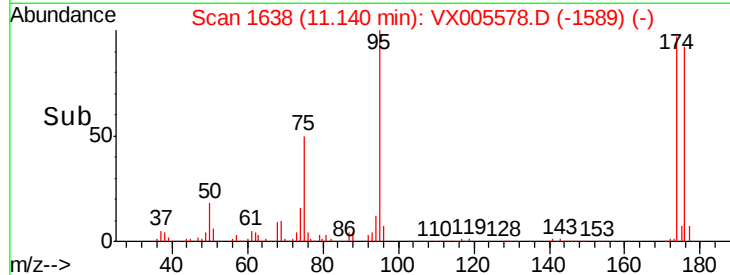
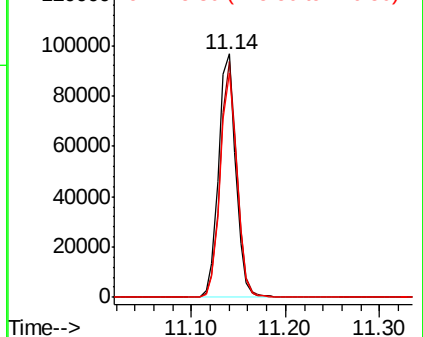
#62
4-Bromofluorobenzene
Concen: 43.593 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 123668
Ion Ratio Lower Upper
95 100
174 94.2 0.0 184.4
176 90.5 0.0 177.4

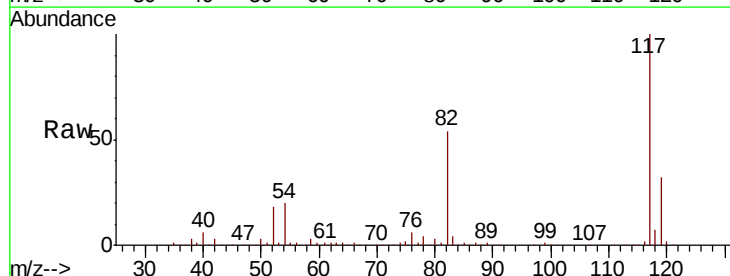


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

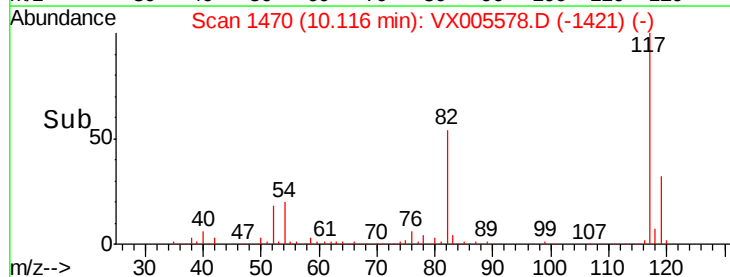
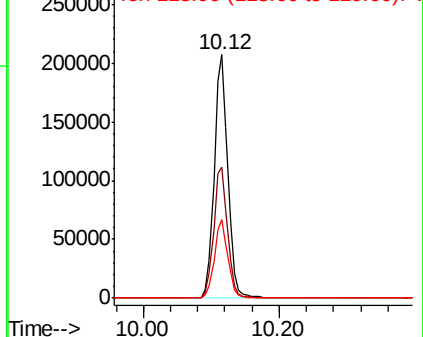


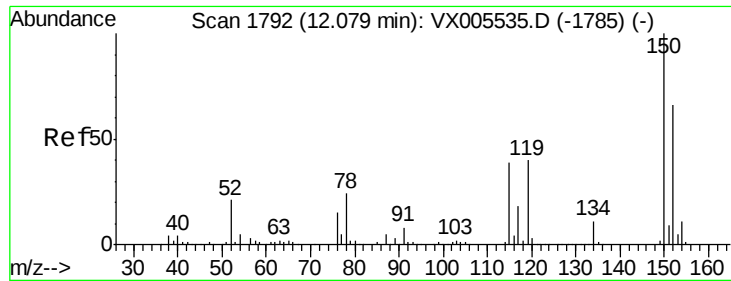
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005578.D
Acq: 25 Oct 2018 08:30

Tgt Ion: 117 Resp: 285838
Ion Ratio Lower Upper
117 100
82 53.9 44.1 66.1
119 32.4 26.2 39.2



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: VX005578.D

Acq: 25 Oct 2018 08:30

Instrument :

MSVOA_X

ClientSampleId :

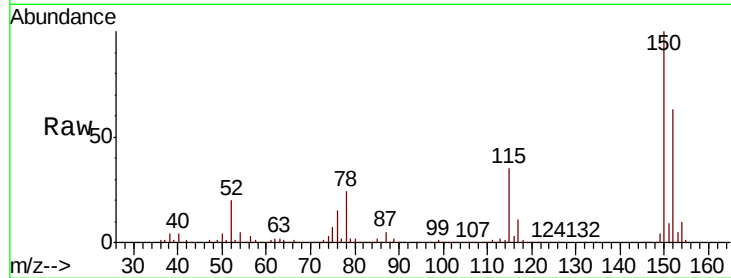
Tot Ion:152 Resp: 133640

Ion Ratio Lower Upper

152 100

115 55.7 39.4 118.1

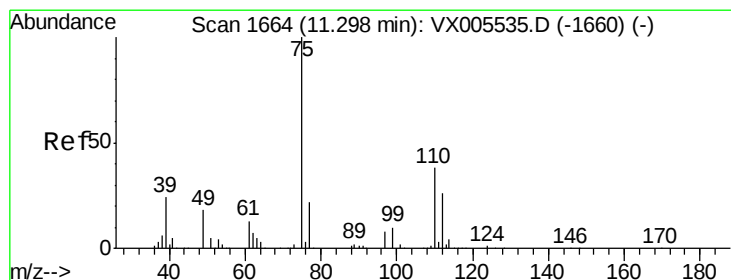
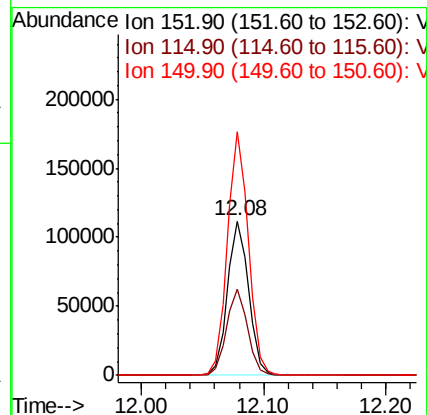
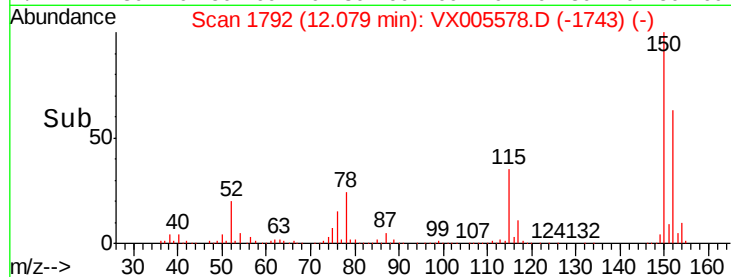
150 156.4 0.0 346.4



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: 22.108 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005578.D

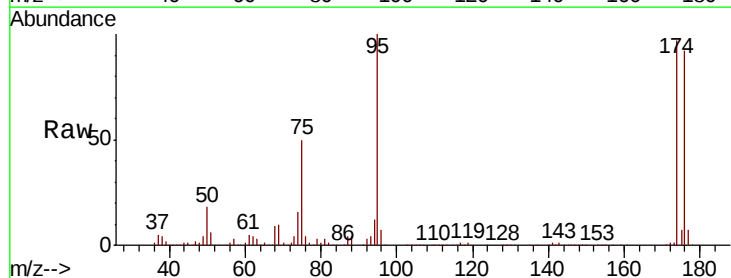
Acq: 25 Oct 2018 08:30

Tgt Ion: 75 Resp: 62598

Ion Ratio Lower Upper

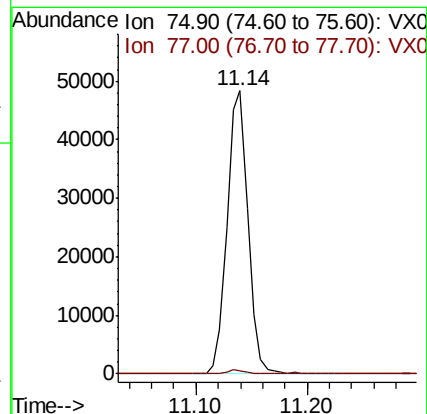
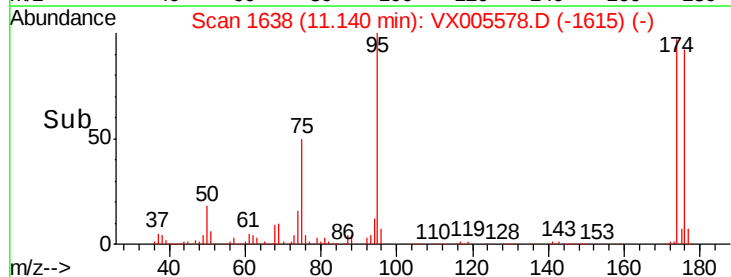
75 100

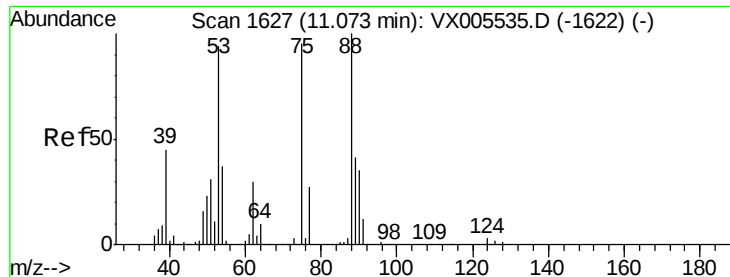
77 1.2 20.5 61.6#



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: 72.237 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

Instrument :

MSVOA_X

ClientSampleId :

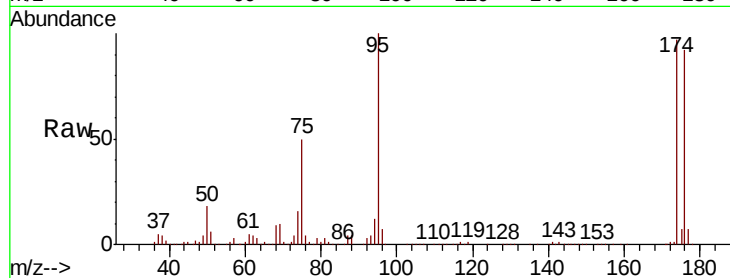
Tot Ion: 75 Resp: 62598

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

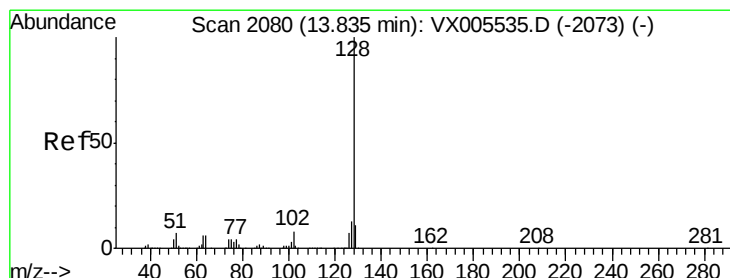
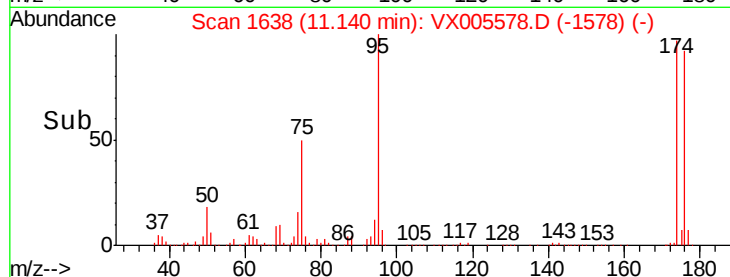
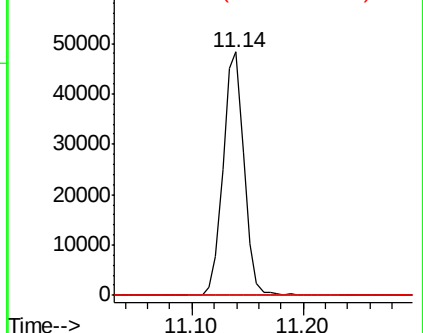
89 0.0 39.8 59.8#



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



#95

Naphthalene

Concen: 0.711 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005578.D

Acq: 25 Oct 2018 08:30

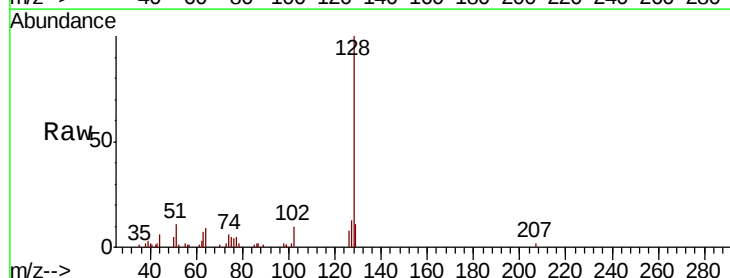
Tgt Ion: 128 Resp: 6486

Ion Ratio Lower Upper

128 100

127 14.4 10.4 15.6

129 9.8 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

