

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041519\
 Data File : VX008969.D
 Acq On : 15 Apr 2019 18:42
 Operator : JC/SP
 Sample : K2387-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

Quant Time: Apr 16 03:25:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	270093	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	429788	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	364731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	150182	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	173863	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
35) Dibromofluoromethane	5.50	113	128035	46.42	ug/l	0.00
Spiked Amount			Recovery	=	92.84%	
50) Toluene-d8	8.71	98	531188	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
62) 4-Bromofluorobenzene	11.13	95	173099	44.58	ug/l	0.00
Spiked Amount			Recovery	=	89.16%	

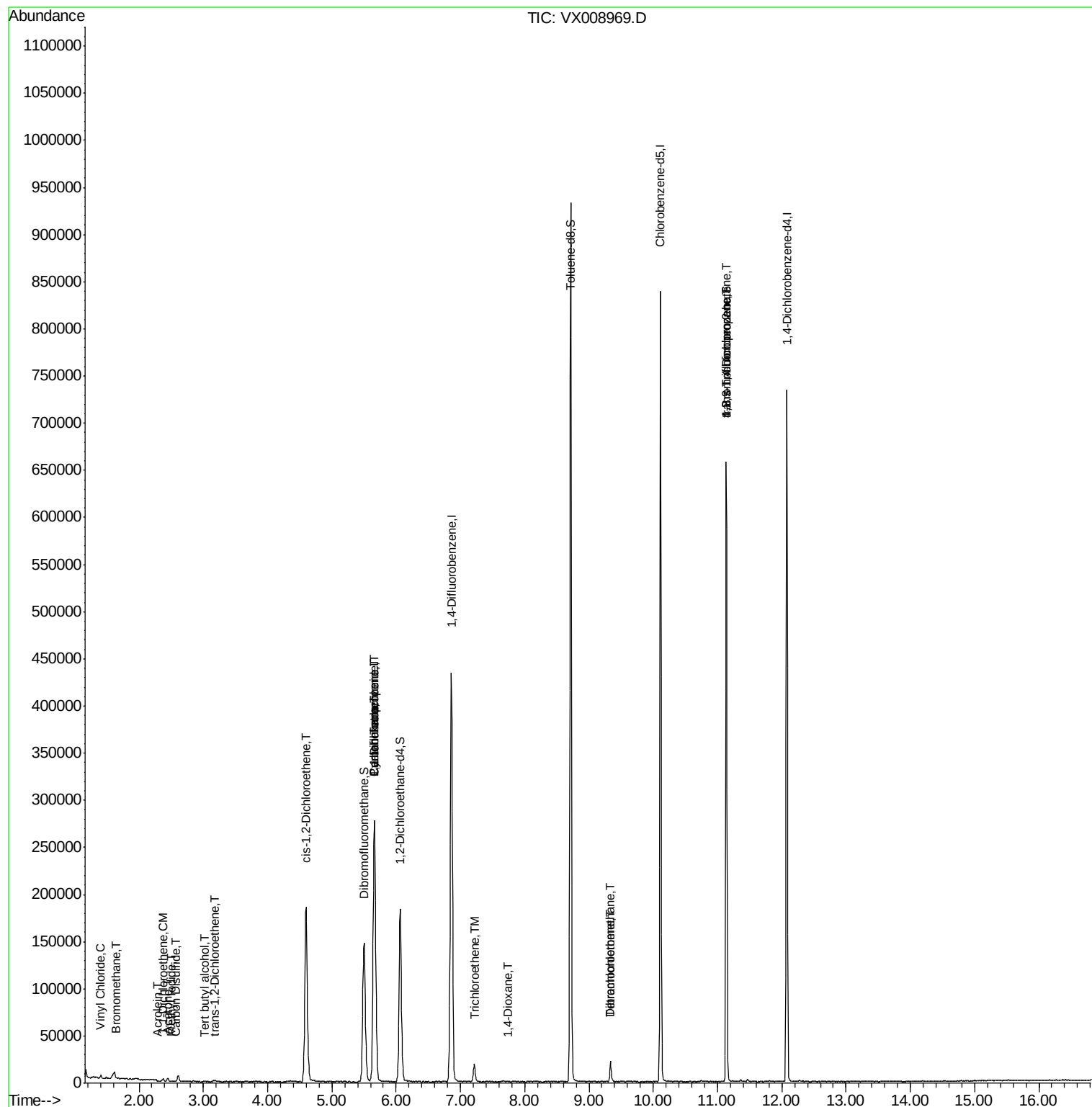
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	2322	0.625	ug/l	94
5) Bromomethane	1.65	94	284	3.961	ug/l	83
10) Methyl Iodide	2.51	142	152	4.460	ug/l #	42
11) Tert butyl alcohol	3.01	59	431	0.510	ug/l #	86
12) 1,1-Dichloroethene	2.37	96	861	0.297	ug/l #	69
13) Acrolein	2.28	56	176	0.241	ug/l #	43
16) Acetone	2.44	43	4174	2.115	ug/l	99
17) Carbon Disulfide	2.57	76	691	1.332	ug/l #	55
21) trans-1,2-Dichloroethene	3.18	96	669	0.217	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	114893	32.755	ug/l	90
28) Bromochloromethane	5.04	49	22	Below Cal	#	21
31) Cyclohexane	5.67	56	5790	0.955	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	21302	4.792	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25434	6.750	ug/l #	17
44) Trichloroethene	7.21	130	6869	2.138	ug/l	94
49) 1,4-Dioxane	7.73	88	22	0.258	ug/l #	1
60) Dibromochloromethane	9.34	129	3613	1.210	ug/l #	10
64) Tetrachloroethene	9.34	164	3963	1.430	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	87793	23.940	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	87793	61.462	ug/l #	11

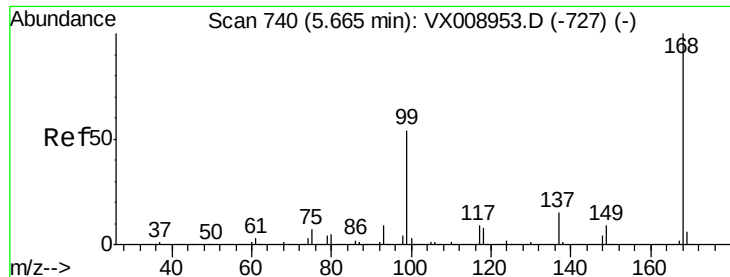
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 16 02:27:32 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

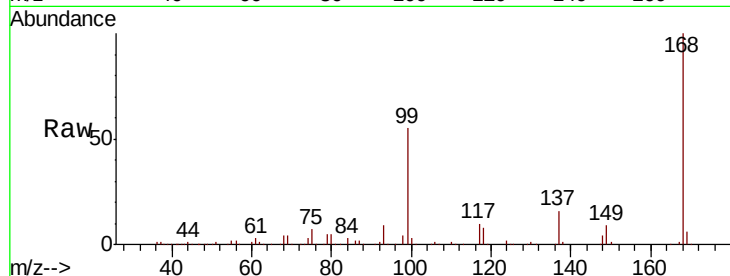
SS042MW130-190411

Tot Ion:168 Resp: 270093

Ion Ratio Lower Upper

168 100

99 54.7 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

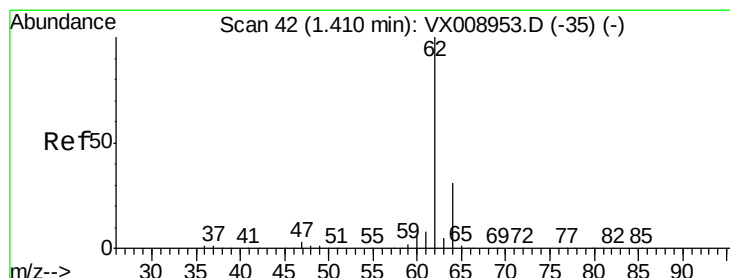
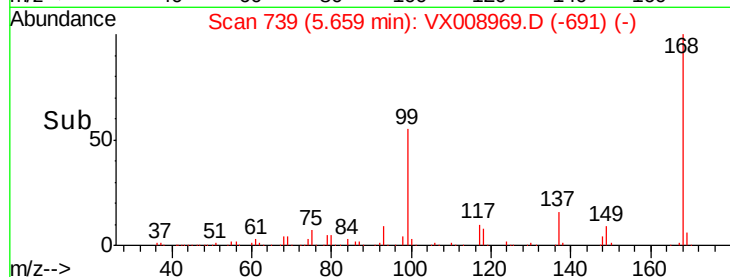
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.625 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX008969.D

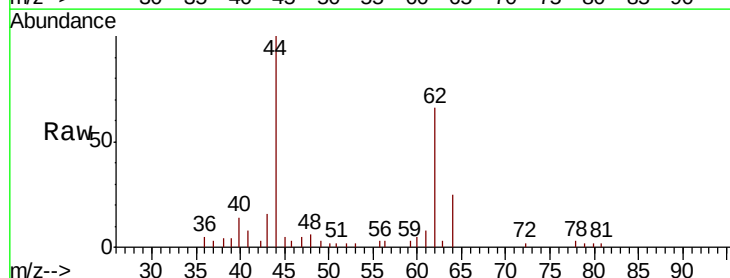
Acq: 15 Apr 2019 18:42

Tgt Ion: 62 Resp: 2322

Ion Ratio Lower Upper

62 100

64 34.8 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

2000

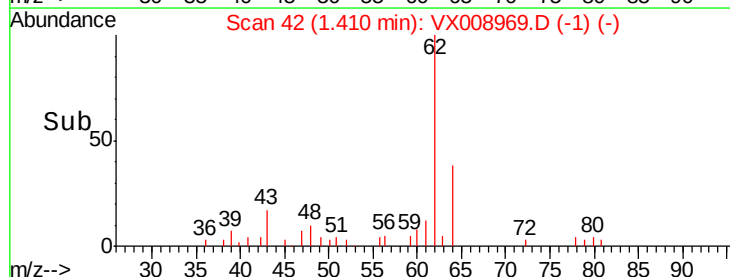
1500

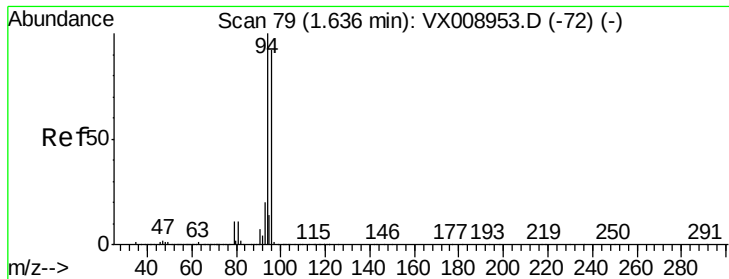
1000

500

0

Time--> 1.35 1.40 1.45





#5

Bromomethane

Concen: 3.961 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

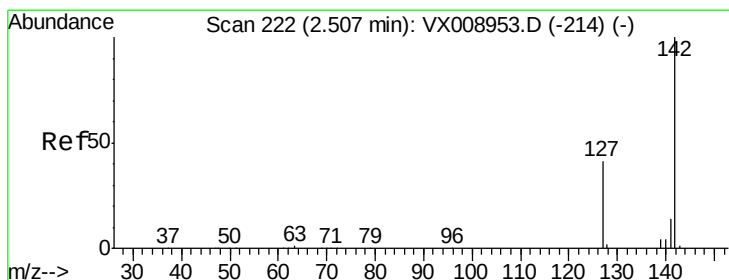
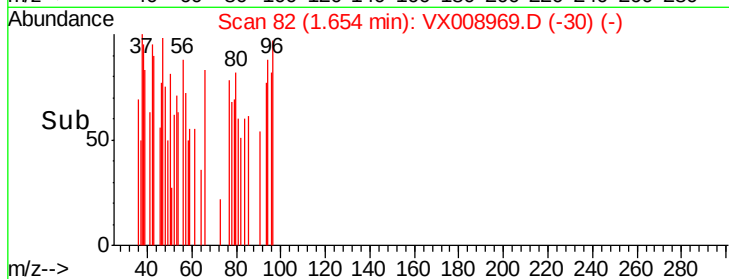
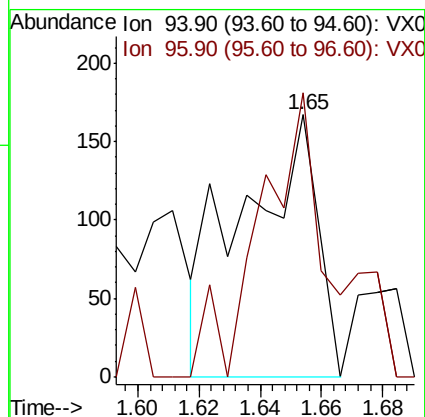
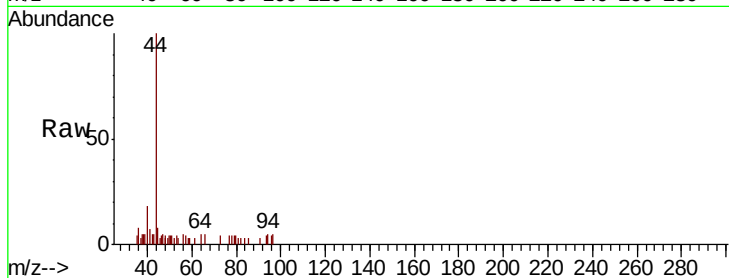
SS042MW130-190411

Tot Ion: 94 Resp: 284

Ion Ratio Lower Upper

94 100

96 108.4 73.9 110.9



#10

Methyl Iodide

Concen: 4.460 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

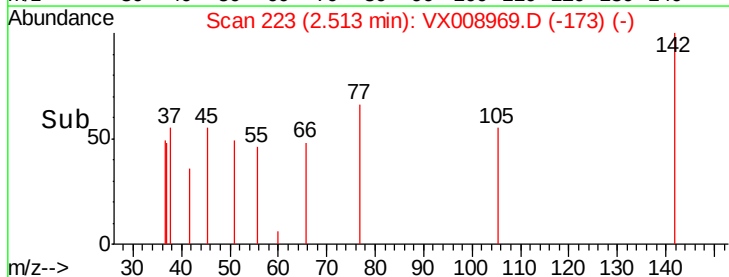
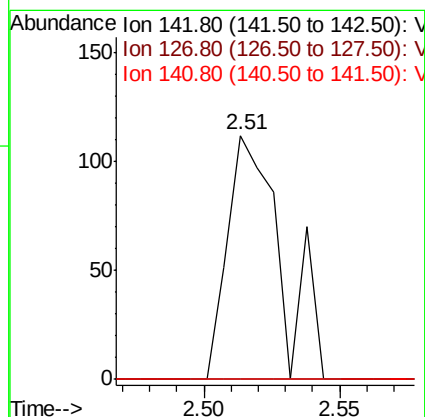
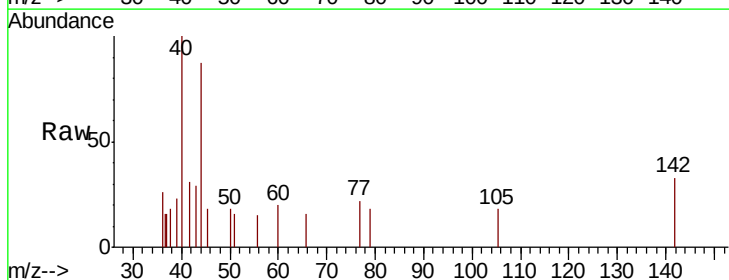
Tgt Ion: 142 Resp: 152

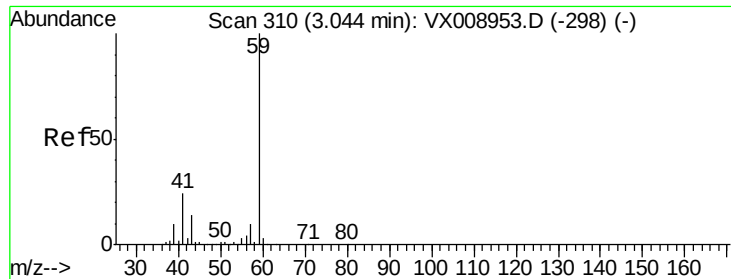
Ion Ratio Lower Upper

142 100

127 0.0 32.8 49.2#

141 0.0 11.4 17.2#

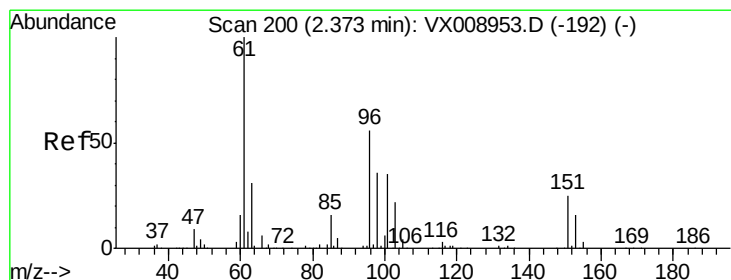
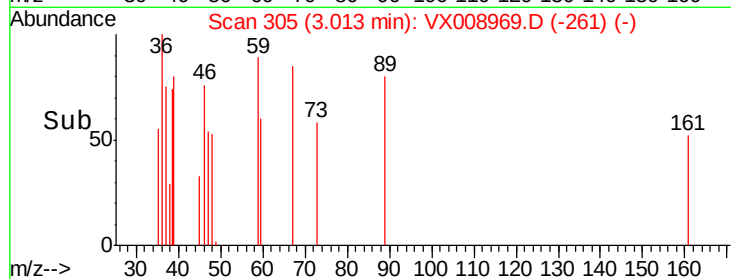
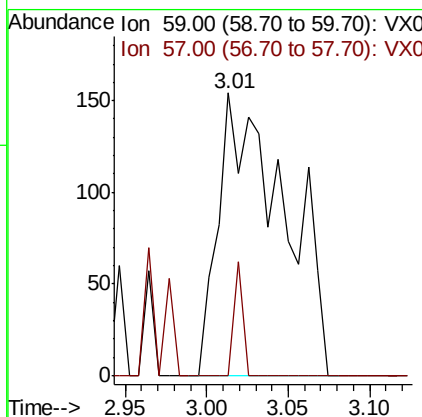
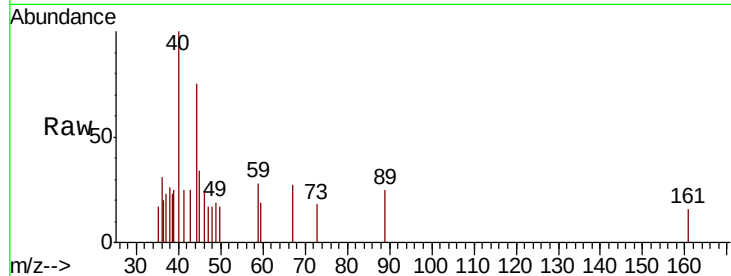




#11
Tert butyl alcohol
Concen: 0.510 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

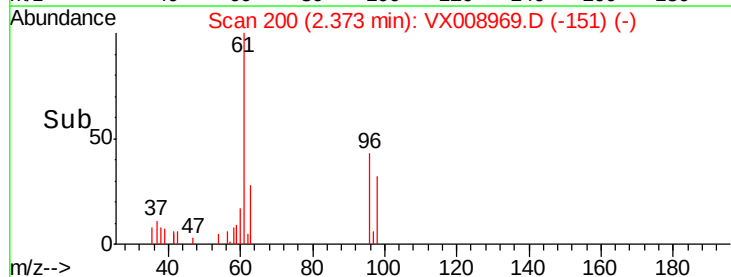
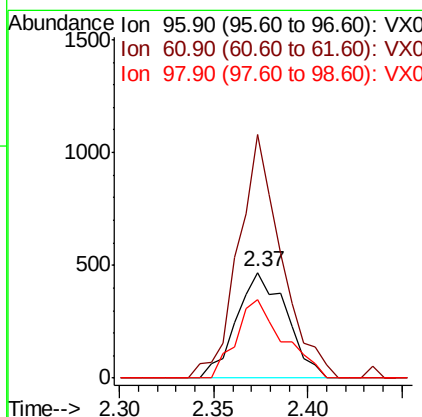
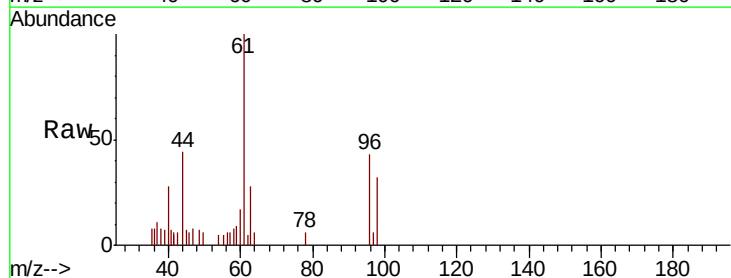
Instrument :
MSVOA_X
ClientSampleId :
SS042MW130-190411

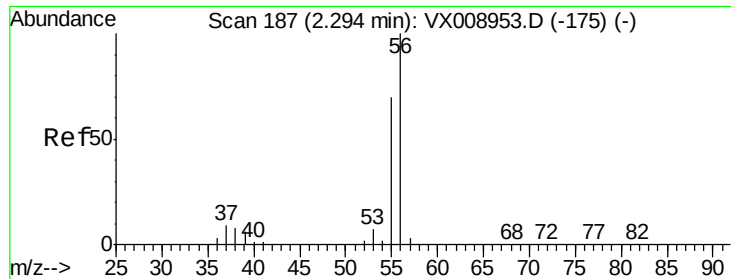
Tot Ion: 59 Resp: 431
Ion Ratio Lower Upper
59 100
57 5.3 8.4 12.6#



#12
1,1-Dichloroethene
Concen: 0.297 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion: 96 Resp: 861
Ion Ratio Lower Upper
96 100
61 230.1 142.2 213.2#
98 74.2 50.9 76.3

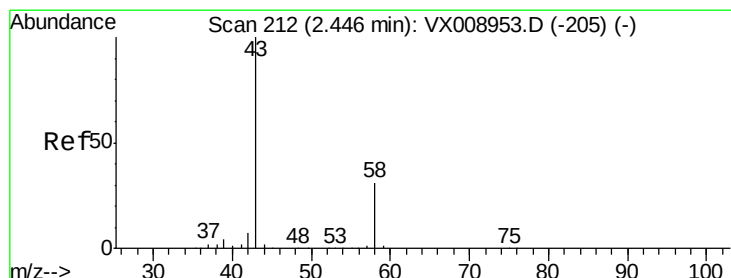
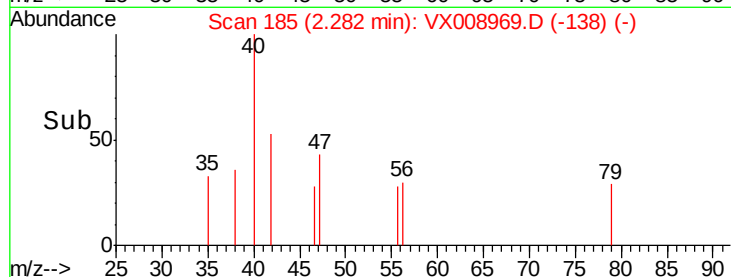
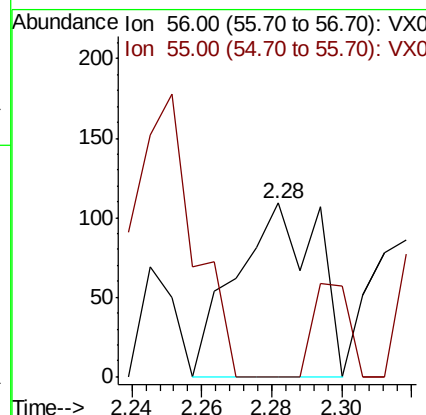
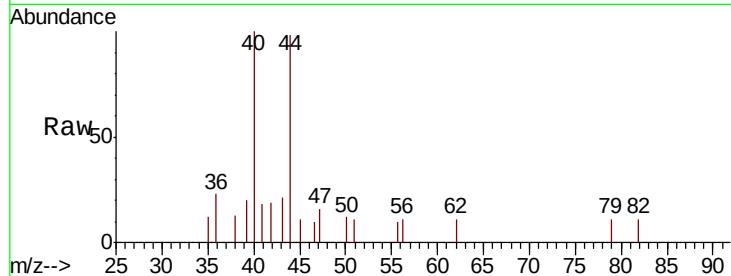




#13
Acrolein
Concen: 0.241 ug/l
RT: 2.28 min Scan# 185
Delta R.T. -0.01 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

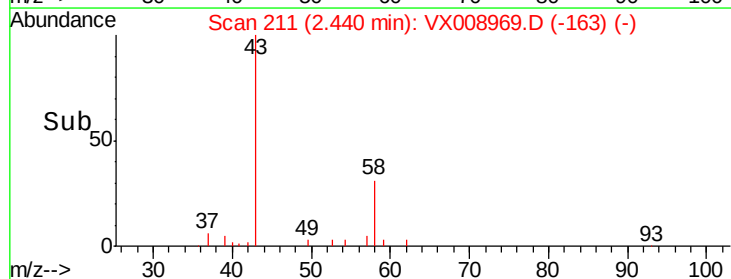
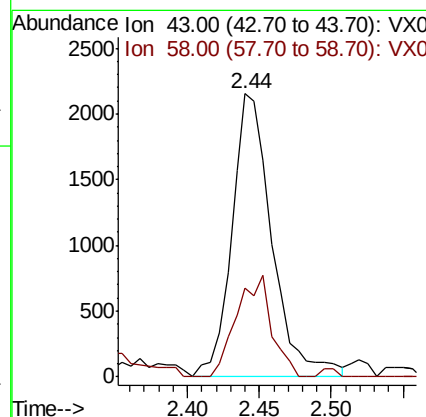
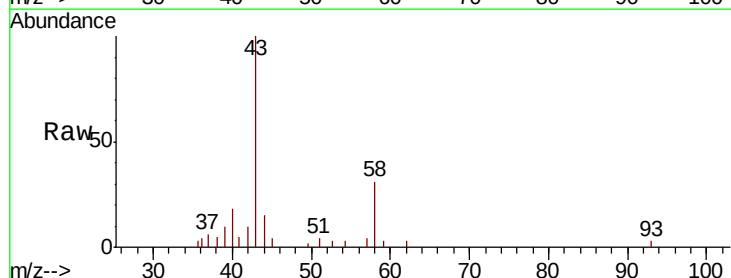
Instrument :
MSVOA_X
ClientSampleId :
SS042MW130-190411

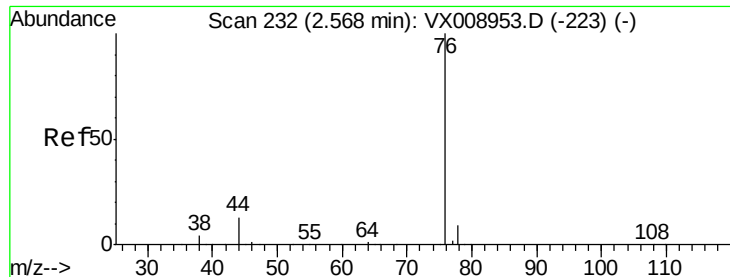
Tot Ion: 56 Resp: 176
Ion Ratio Lower Upper
56 100
55 23.9 56.6 84.8#



#16
Acetone
Concen: 2.115 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion: 43 Resp: 4174
Ion Ratio Lower Upper
43 100
58 31.4 24.8 37.2





#17

Carbon Disulfide

Concen: 1.332 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

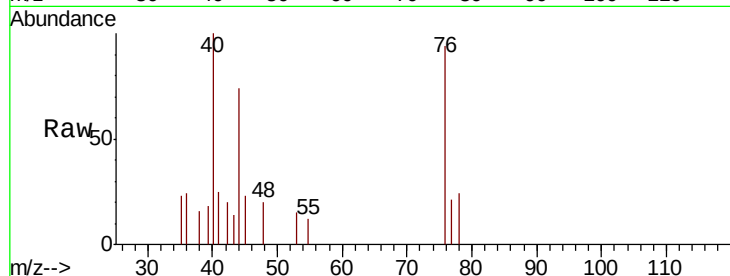
SS042MW130-190411

Tot Ion: 76 Resp: 691

Ion Ratio Lower Upper

76 100

78 25.3 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

200

100

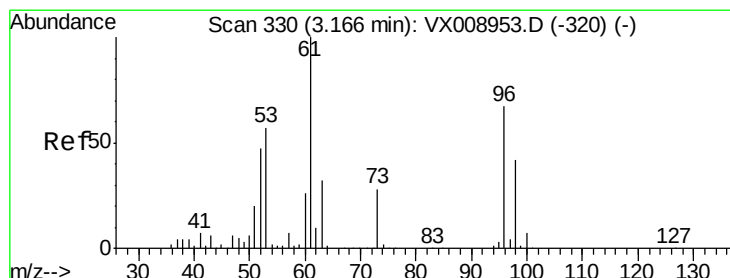
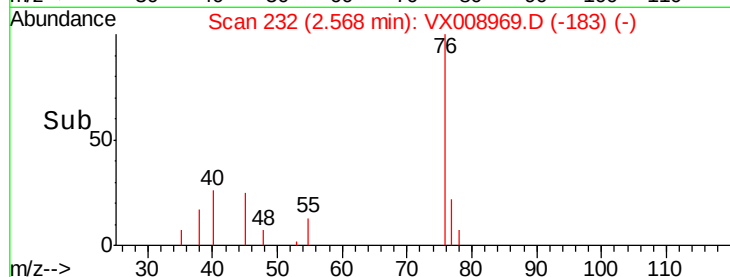
0

2.50

2.55

2.60

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.217 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

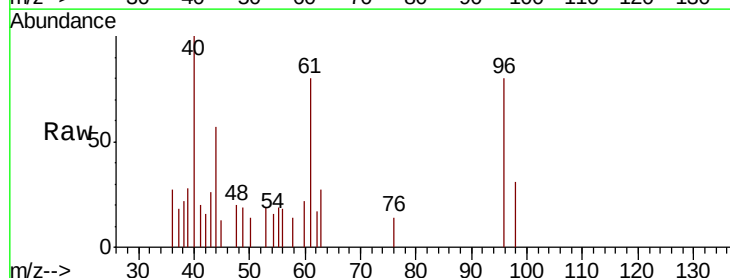
Tgt Ion: 96 Resp: 669

Ion Ratio Lower Upper

96 100

61 82.3 120.3 180.5#

98 39.1 50.2 75.2#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

500

400

300

200

100

0

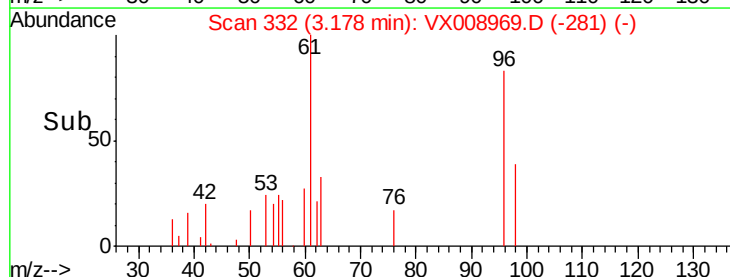
3.10

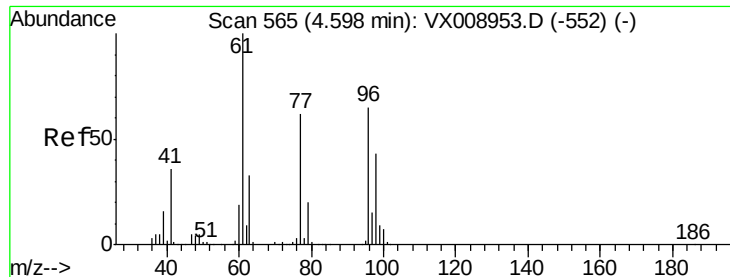
3.15

3.20

3.25

Time-->



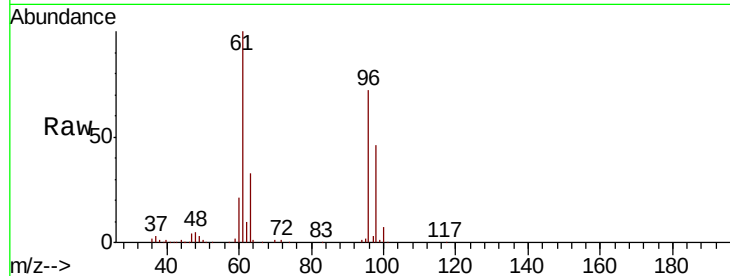


#27

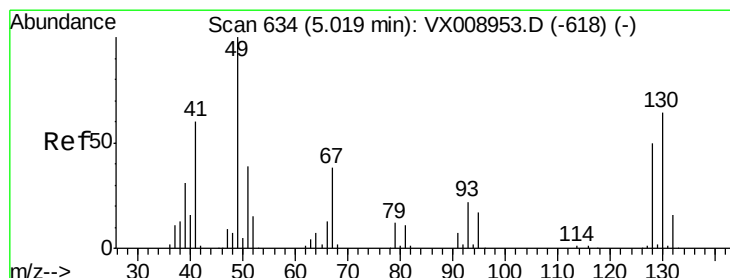
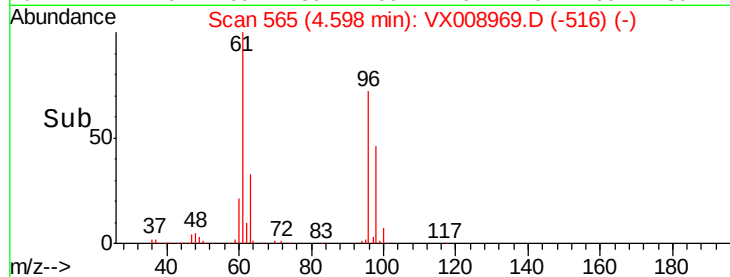
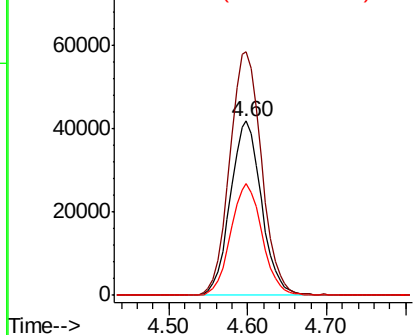
cis-1,2-Dichloroethene
Concen: 32.755 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Instrument :
MSVOA_X
ClientSampleId :
SS042MW130-190411

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	322.0
98	64.7	0.0	128.4



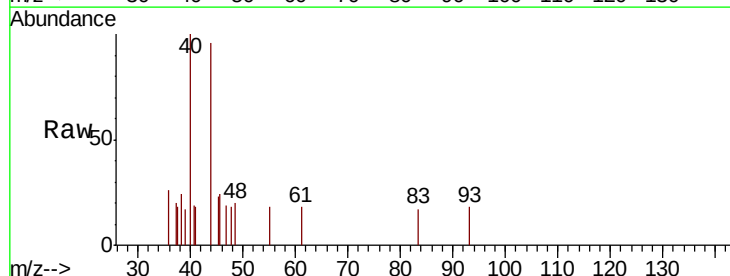
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



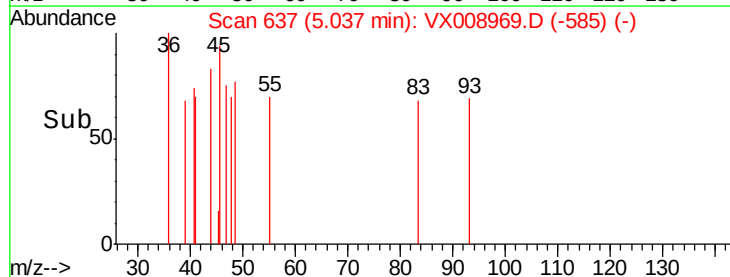
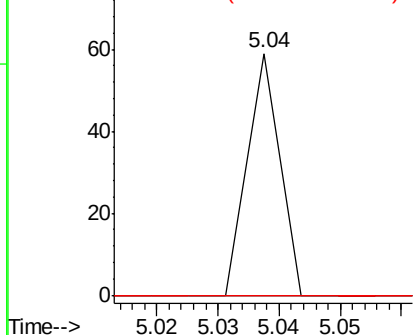
#28

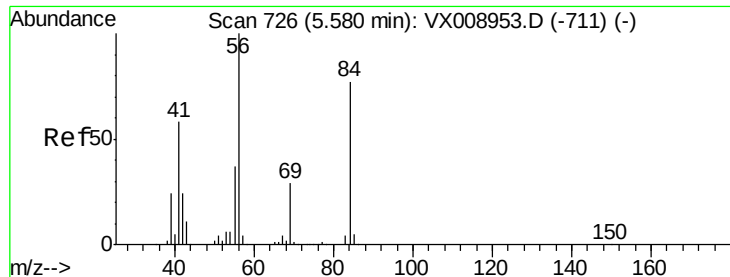
Bromochloromethane
Concen: Below Cal
RT: 5.04 min Scan# 637
Delta R.T. 0.02 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V

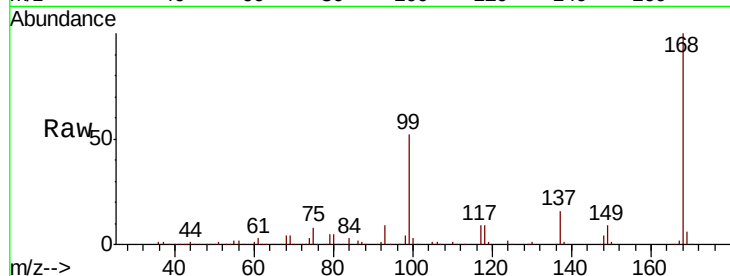




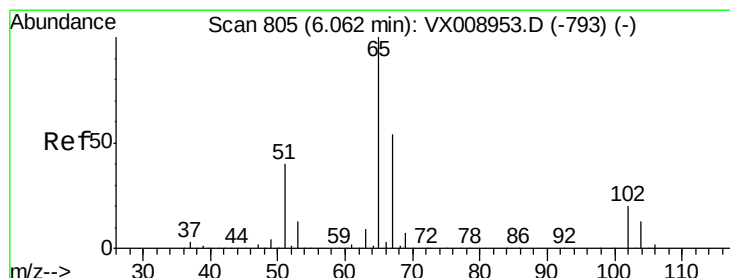
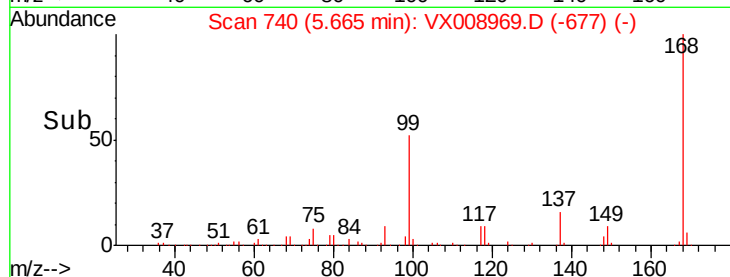
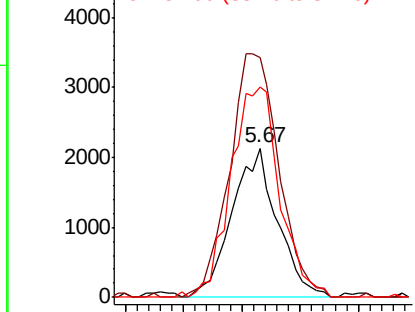
#31
Cyclohexane
Concen: 0.955 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Instrument :
MSVOA_X
ClientSampleId :
SS042MW130-190411

Tot Ion: 56 Resp: 5790
Ion Ratio Lower Upper
56 100
69 160.7 23.3 34.9#
84 140.7 61.7 92.5#

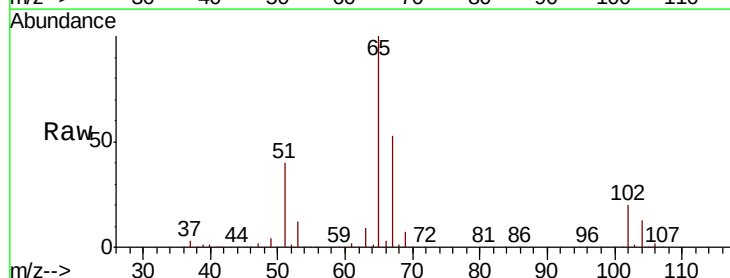


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

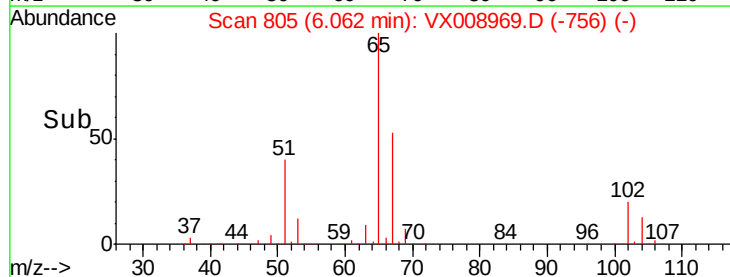
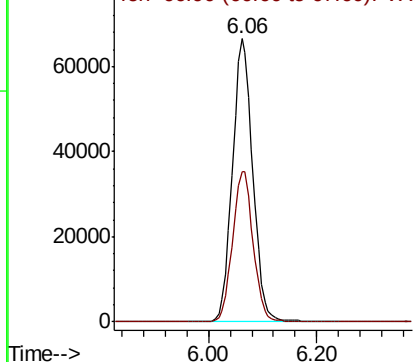


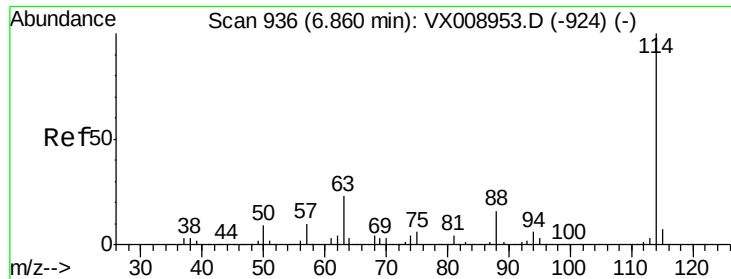
#33
1,2-Dichloroethane-d4
Concen: 45.677 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008969.D
Acq: 15 Apr 2019 18:42

Tgt Ion: 65 Resp: 173863
Ion Ratio Lower Upper
65 100
67 53.8 0.0 108.6



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

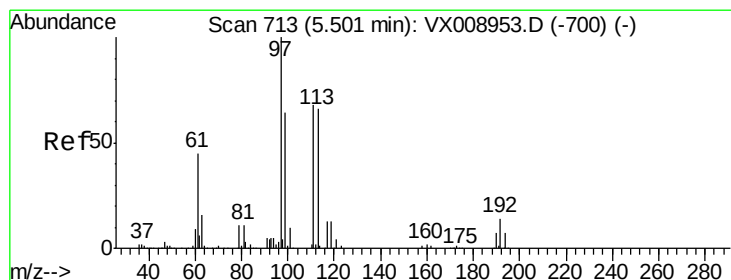
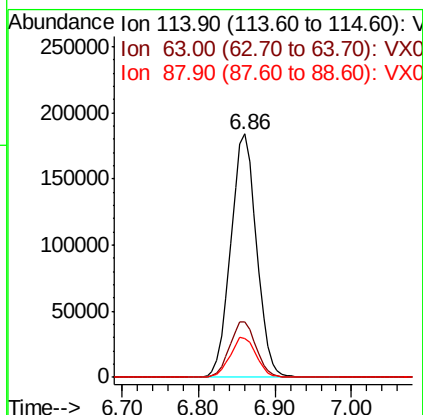
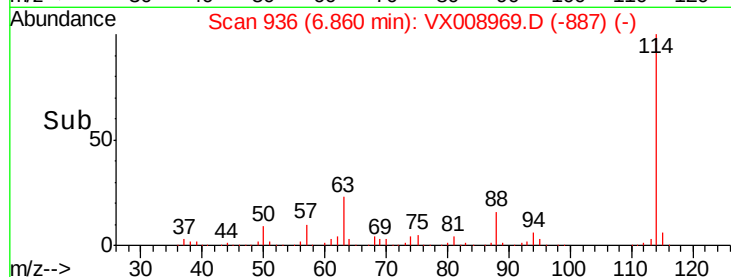
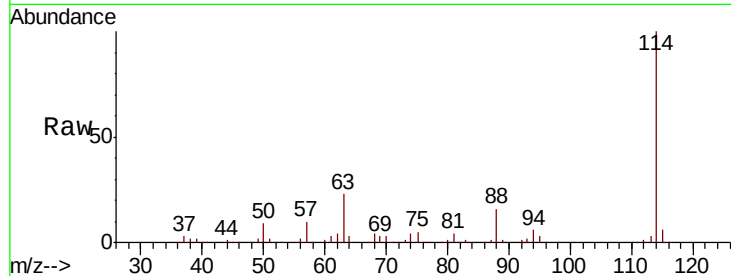




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

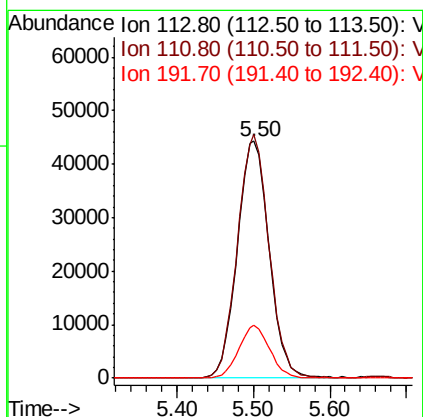
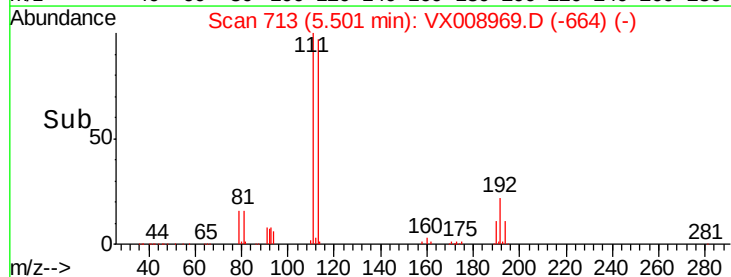
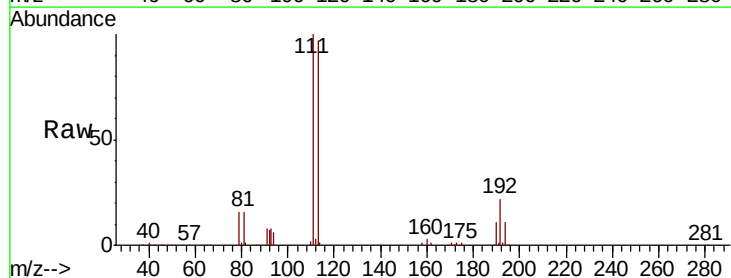
Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

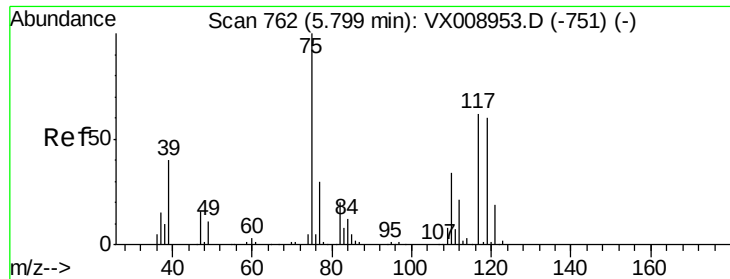
Tot Ion:114 Resp: 429788
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 46.0
 88 16.0 0.0 32.6



#35
 Dibromofluoromethane
 Concen: 46.418 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Tgt Ion:113 Resp: 128035
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.9 124.3
 192 21.6 17.4 26.0

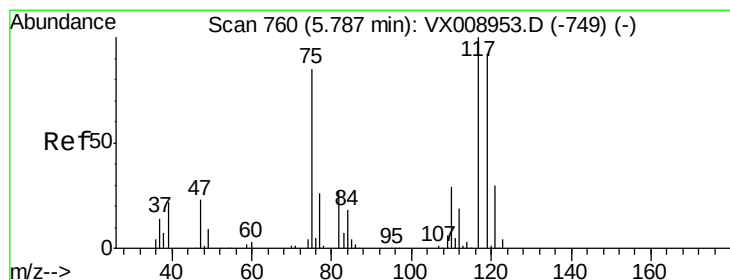
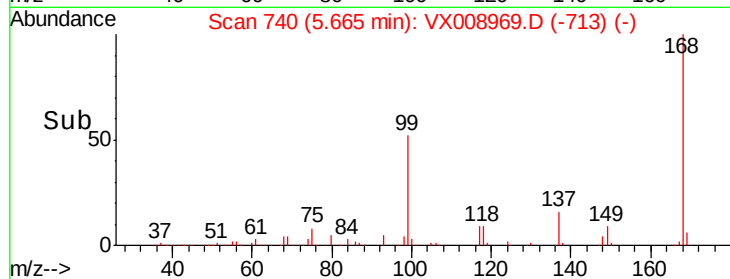
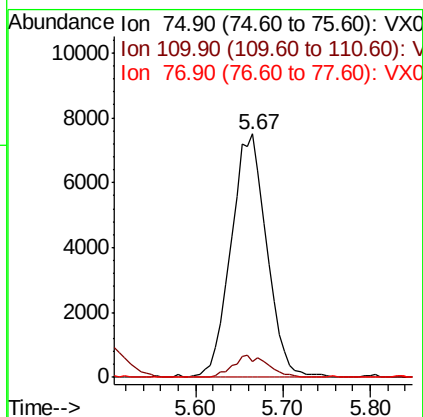
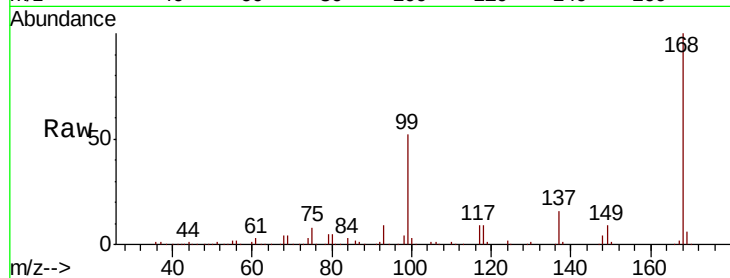




#36
 1,1-Dichloropropene
 Concen: 4.792 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

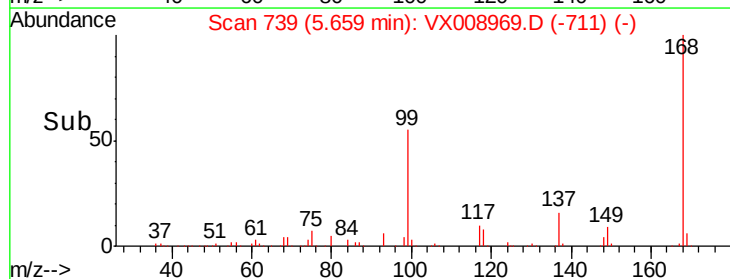
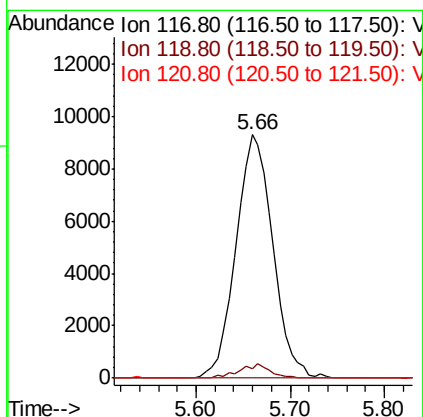
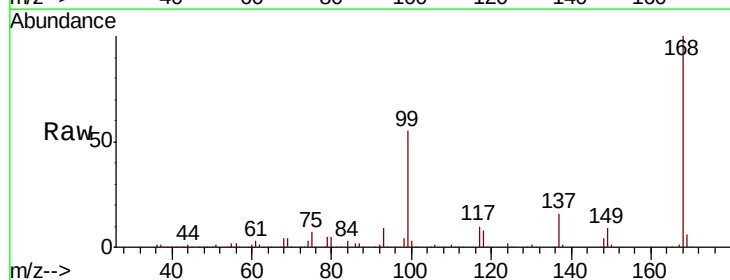
Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

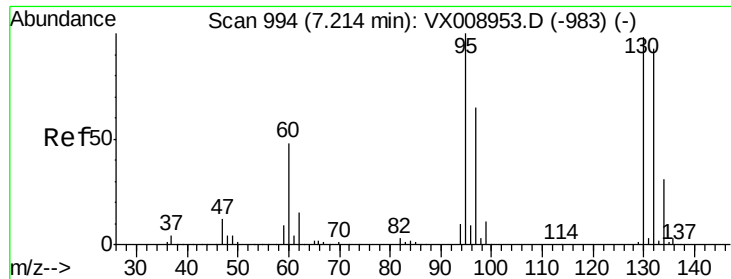
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.9	50.7#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.750 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	73.8	110.8#
121	0.0	23.6	35.4#





#44

Trichloroethene

Concen: 2.138 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

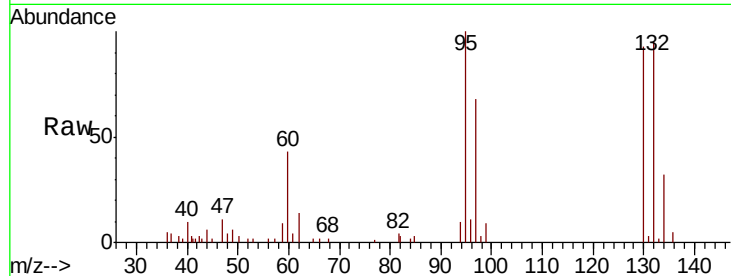
SS042MW130-190411

Tot Ion:130 Resp: 6869

Ion Ratio Lower Upper

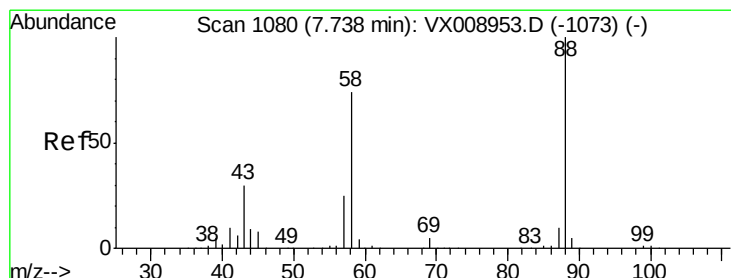
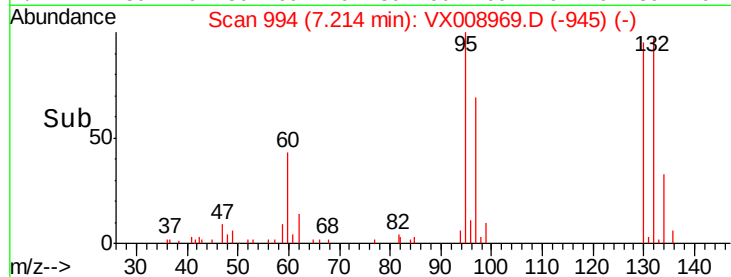
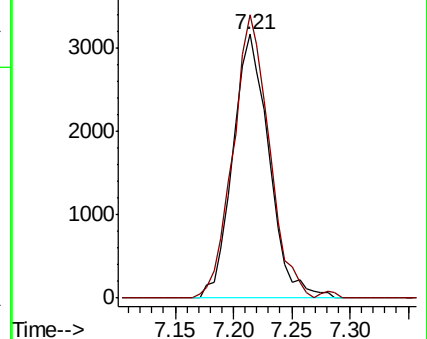
130 100

95 107.2 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.258 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

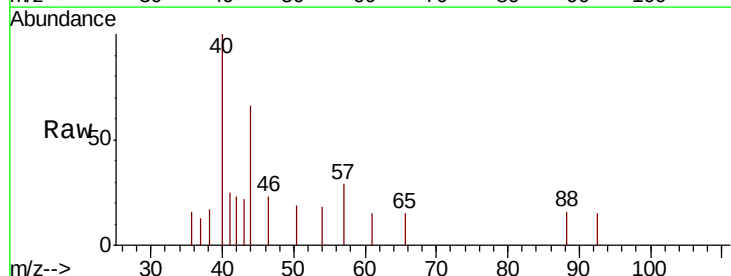
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 659.1 29.3 43.9#

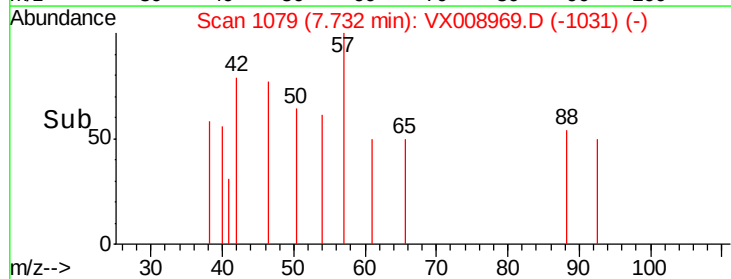
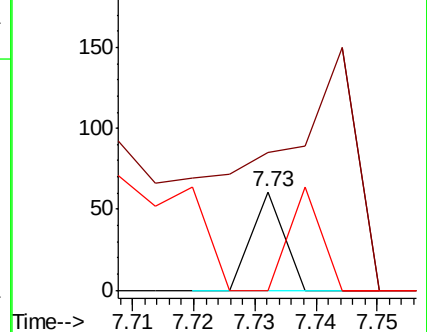
58 104.5 62.6 93.8#

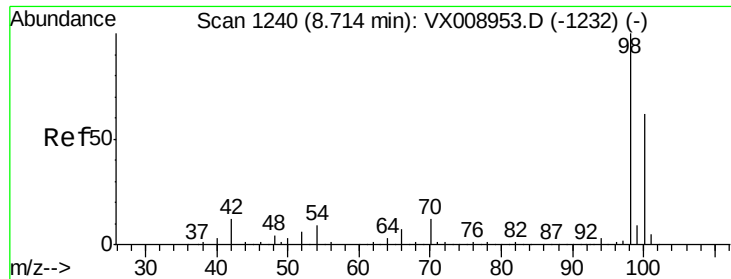


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.289 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

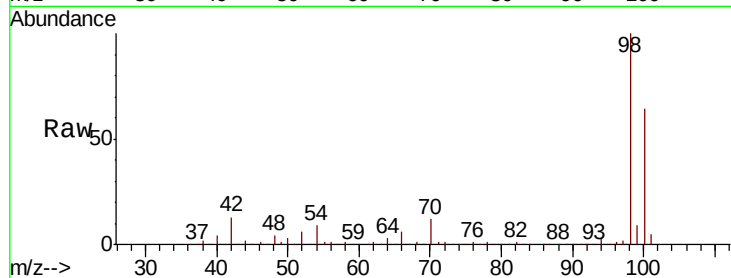
SS042MW130-190411

Tot Ion: 98 Resp: 531188

Ion Ratio Lower Upper

98 100

100 64.1 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX008953.D (-1232) (-)

Ion 100.00 (99.70 to 100.70): VX008953.D (-1232) (-)

8.71

400000

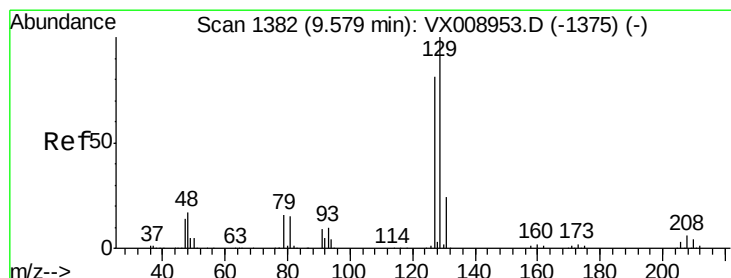
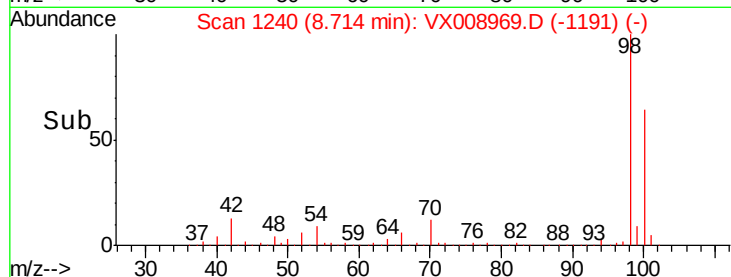
300000

200000

100000

0

Time--> 8.60 8.65 8.70 8.75 8.80



#60

Dibromochloromethane

Concen: 1.210 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008969.D

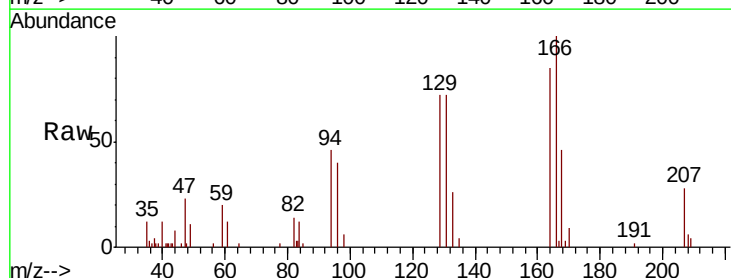
Acq: 15 Apr 2019 18:42

Tgt Ion:129 Resp: 3613

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): VX008953.D (-1375) (-)

Ion 126.80 (126.50 to 127.50): VX008953.D (-1375) (-)

9.34

2500

2000

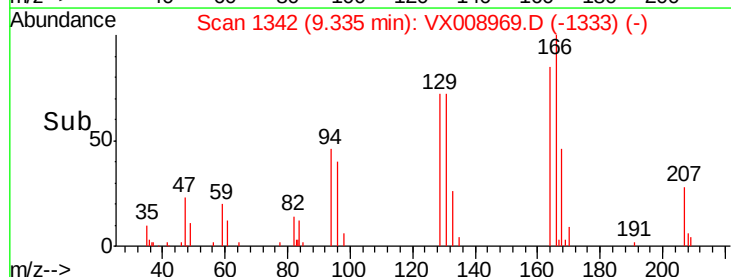
1500

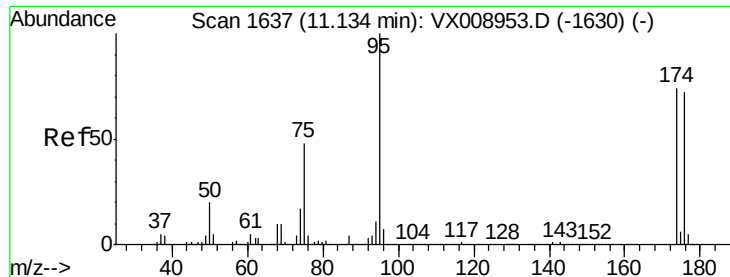
1000

500

0

Time--> 9.30 9.35 9.40





#62

4-Bromofluorobenzene

Concen: 44.578 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

SS042MW130-190411

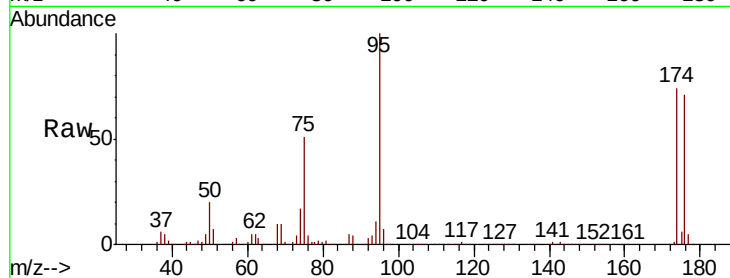
Tot Ion: 95 Resp: 173099

Ion Ratio Lower Upper

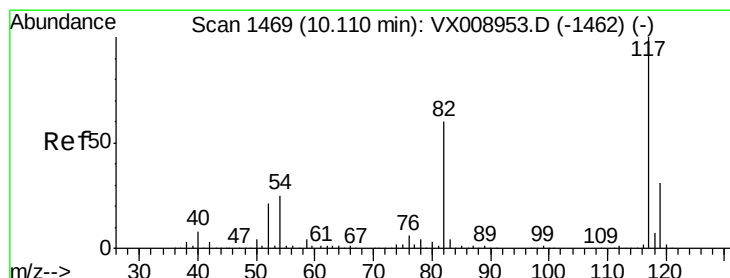
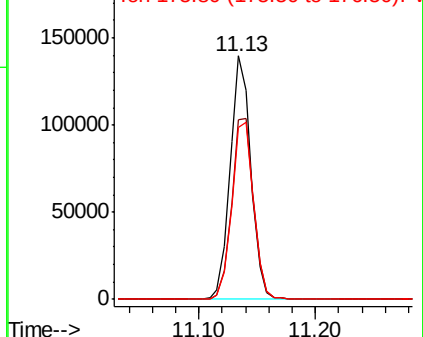
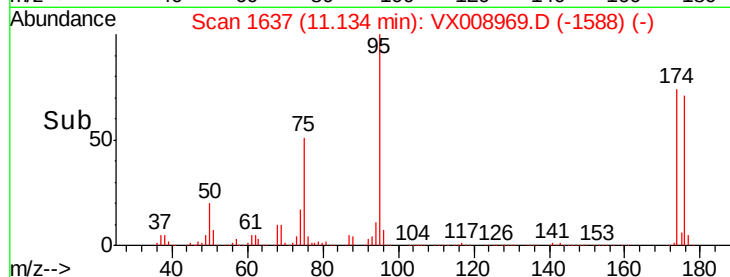
95 100

174 78.7 0.0 159.6

176 76.8 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008969.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

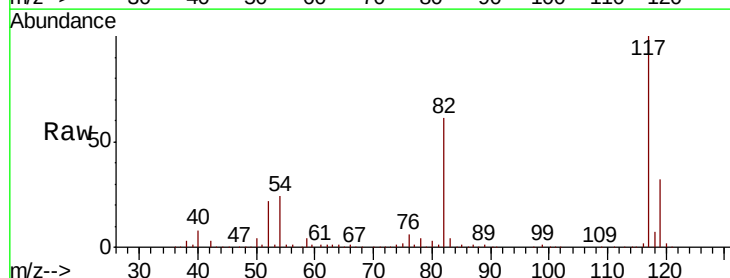
Tgt Ion: 117 Resp: 364731

Ion Ratio Lower Upper

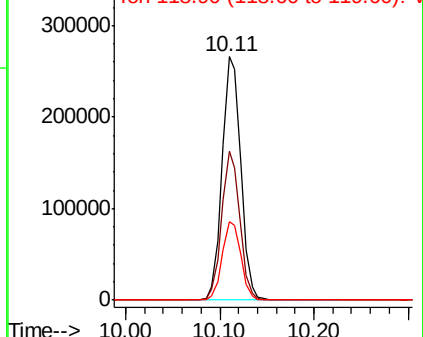
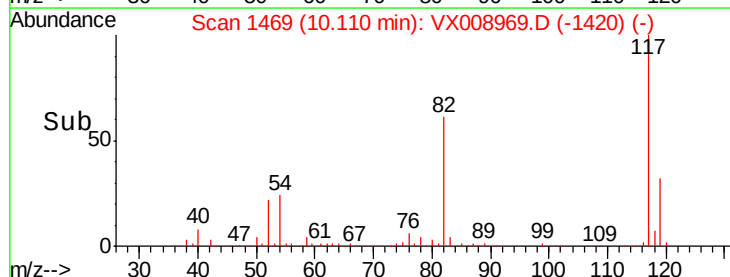
117 100

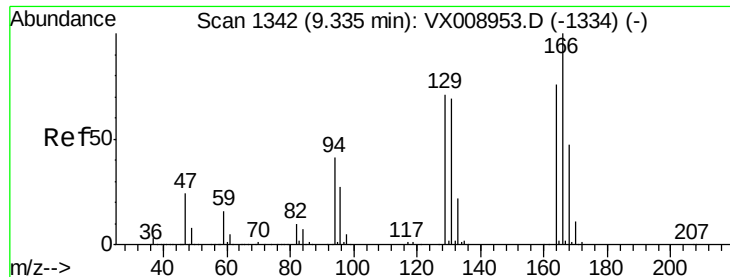
82 61.0 48.2 72.4

119 32.4 25.0 37.6



Abundance Ion 116.90 (116.60 to 117.60): VX008969.D (-1420) (-)





#64

Tetrachloroethene

Concen: 1.430 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX008969.D

Acq: 15 Apr 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

SS042MW130-190411

Tot Ion:164 Resp: 3963

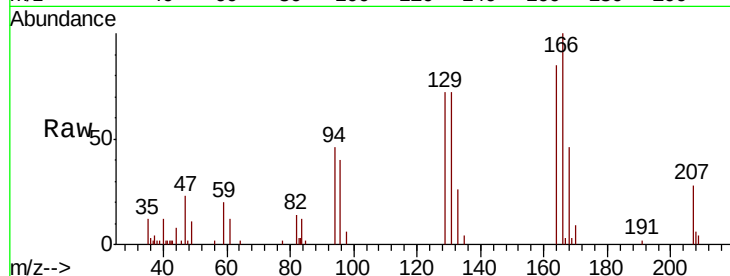
Ion Ratio Lower Upper

164 100

166 117.6 105.0 157.4

129 84.4 74.2 111.4

131 84.8 72.2 108.2

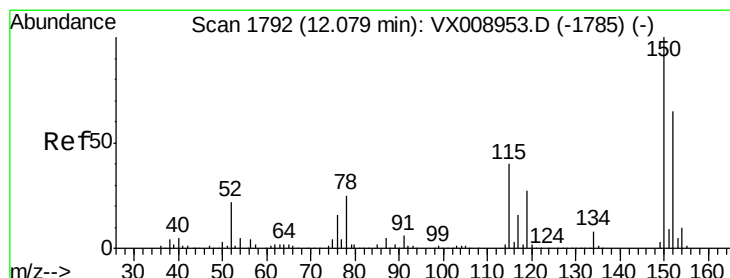
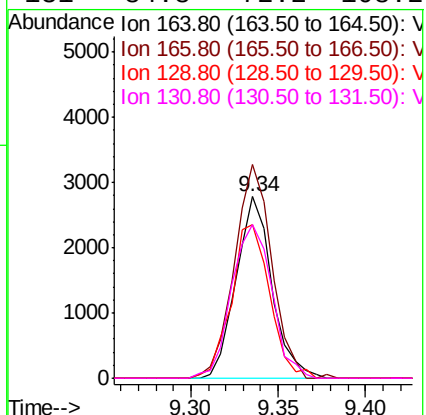
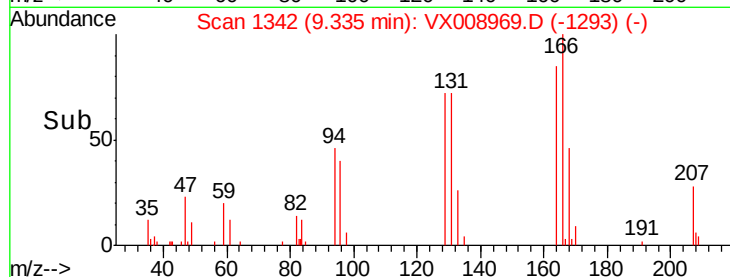


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX008969.D

Acq: 15 Apr 2019 18:42

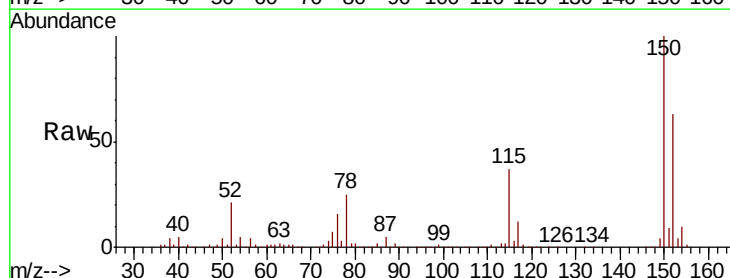
Tgt Ion:152 Resp: 150182

Ion Ratio Lower Upper

152 100

115 59.3 41.4 124.2

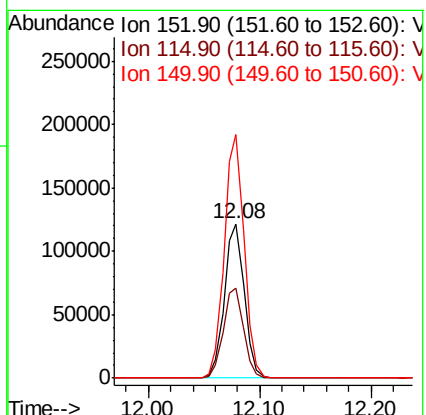
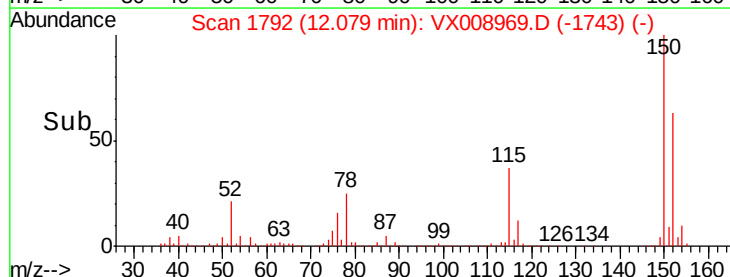
150 157.6 0.0 349.8

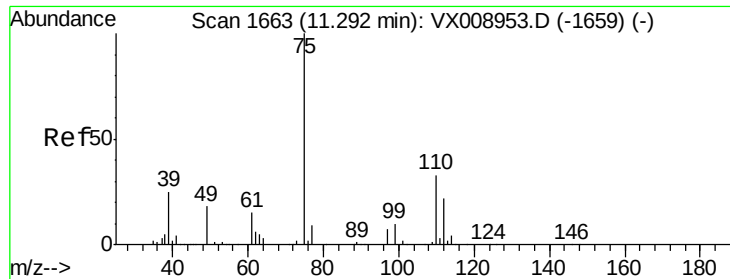


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

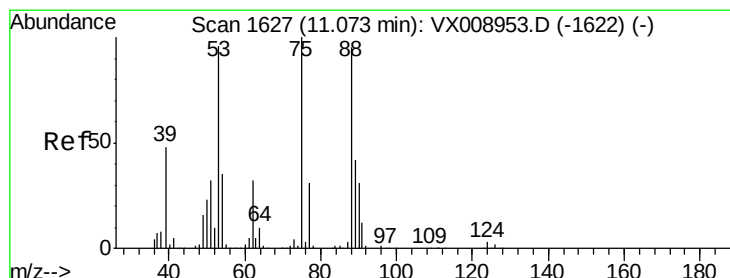
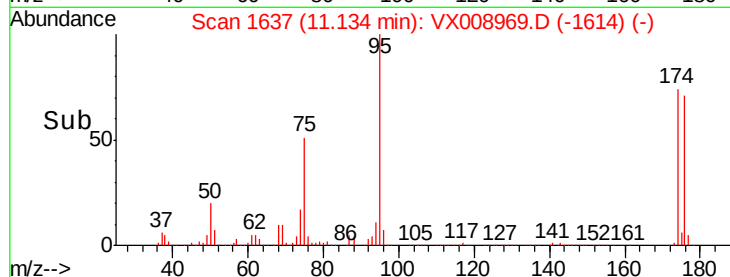
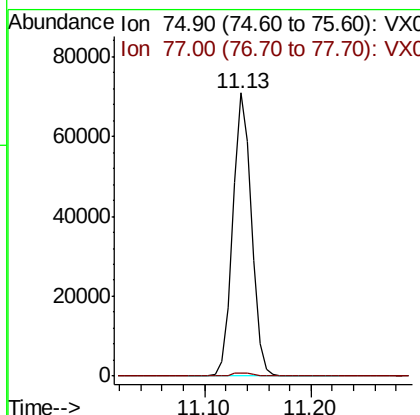
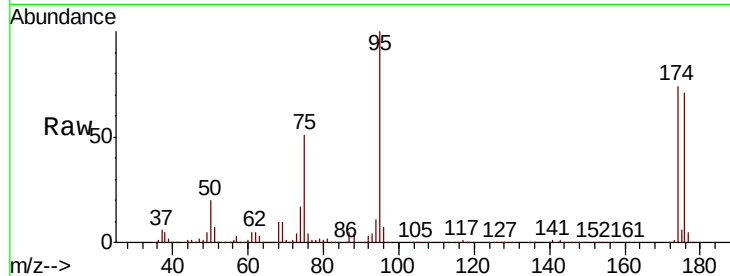




#76
 1,2,3-Trichloropropane
 Concen: 23.940 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

Tot Ion: 75 Resp: 87793
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.7 68.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.462 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008969.D
 Acq: 15 Apr 2019 18:42

Tgt Ion: 75 Resp: 87793
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.2 117.4#
 89 0.1 36.0 54.0#

