

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041619\
 Data File : VX008983.D
 Acq On : 16 Apr 2019 13:32
 Operator : JC/SP
 Sample : K2387-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

Quant Time: Apr 17 04:16:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	262771	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	416172	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	360685	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	152565	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	168296	45.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.90%	
35) Dibromofluoromethane	5.50	113	124036	46.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.88%	
50) Toluene-d8	8.71	98	517664	48.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.13	95	173071	46.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.06%	

Target Compounds

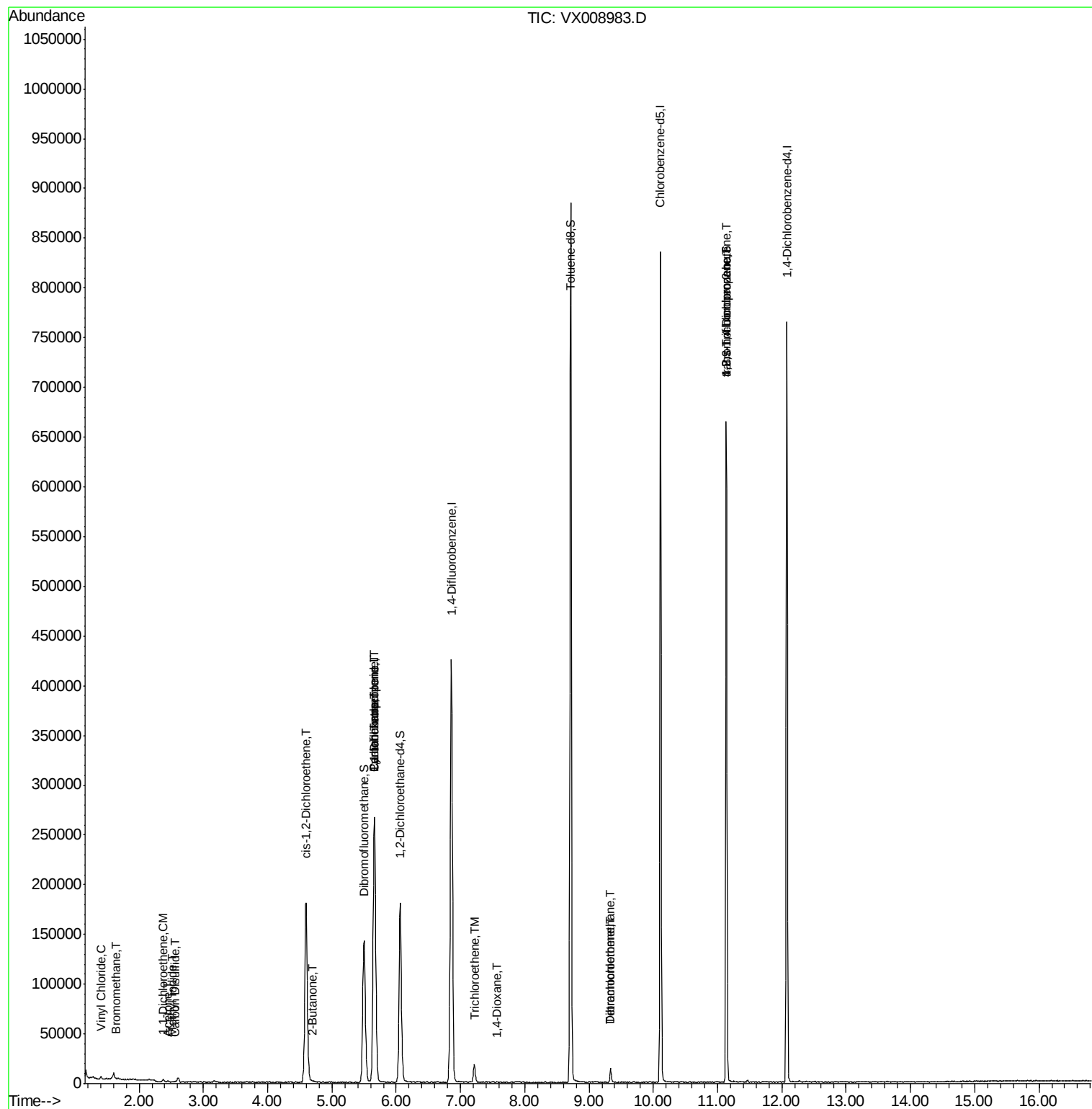
						Qvalue
4) Vinyl Chloride	1.41	62	2175	0.601	ug/l	99
5) Bromomethane	1.65	94	170	3.918	ug/l #	52
10) Methyl Iodide	2.51	142	193	4.474	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	913	0.324	ug/l #	93
16) Acetone	2.44	43	1421	0.740	ug/l #	63
17) Carbon Disulfide	2.57	76	786	1.345	ug/l #	75
25) 2-Butanone	4.70	43	654	0.213	ug/l #	74
27) cis-1,2-Dichloroethene	4.60	96	114115	33.440	ug/l	90
28) Bromochloromethane	5.02	49	44	Below Cal	#	21
31) Cyclohexane	5.66	56	6016	1.020	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	20587	4.783	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25006	6.853	ug/l #	17
44) Trichloroethene	7.21	130	6503	2.090	ug/l	97
49) 1,4-Dioxane	7.55	88	18	0.218	ug/l #	1
60) Dibromochloromethane	9.33	129	2416	0.836	ug/l #	10
64) Tetrachloroethene	9.33	164	2487	0.908	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	86984	23.349	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	86984	59.944	ug/l #	11

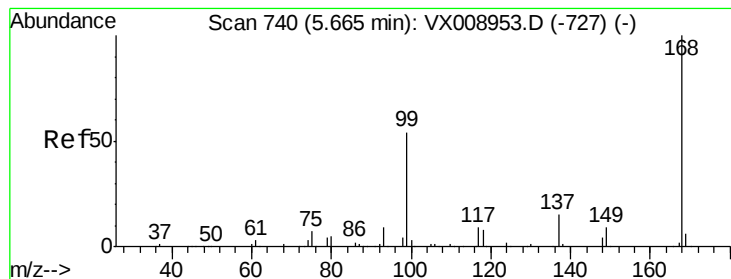
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 16 09:35:21 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

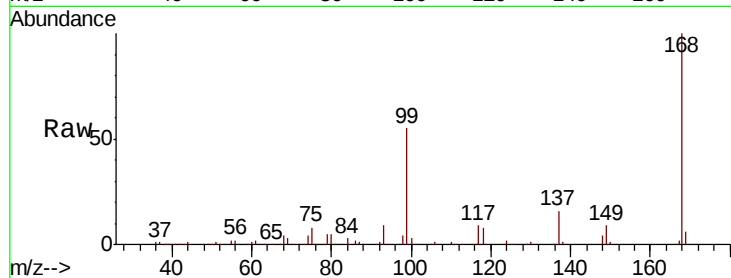
SS042MW130-190411

Tot Ion:168 Resp: 262771

Ion Ratio Lower Upper

168 100

99 55.3 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

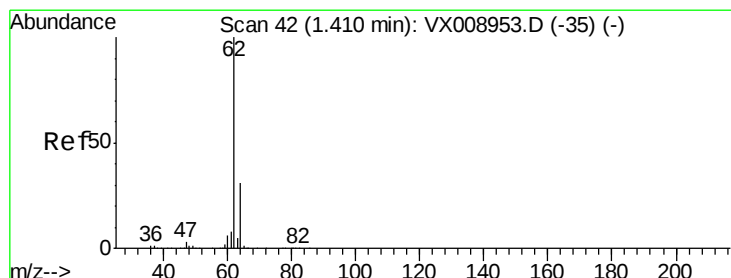
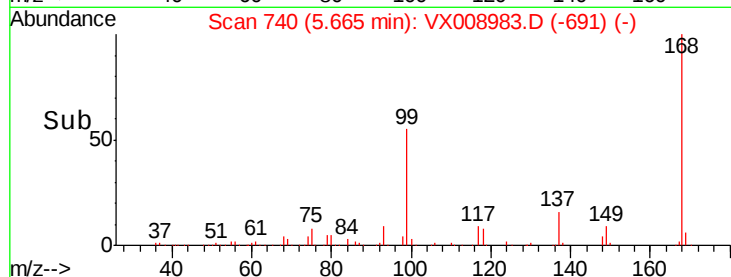
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.601 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX008983.D

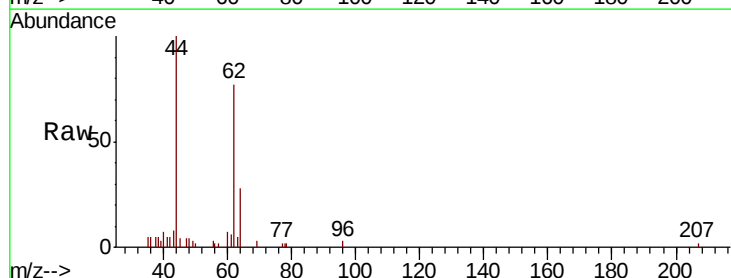
Acq: 16 Apr 2019 13:32

Tgt Ion: 62 Resp: 2175

Ion Ratio Lower Upper

62 100

64 31.5 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

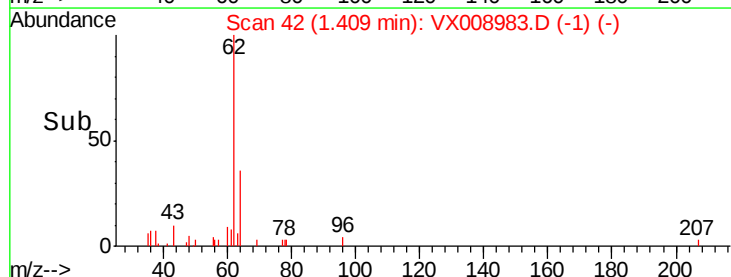
1000

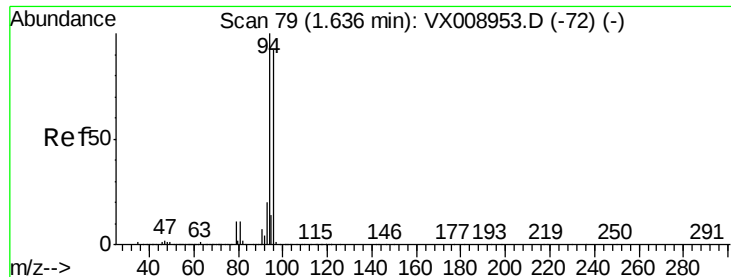
500

0

Time-->

1.40 1.45





#5

Bromomethane

Concen: 3.918 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

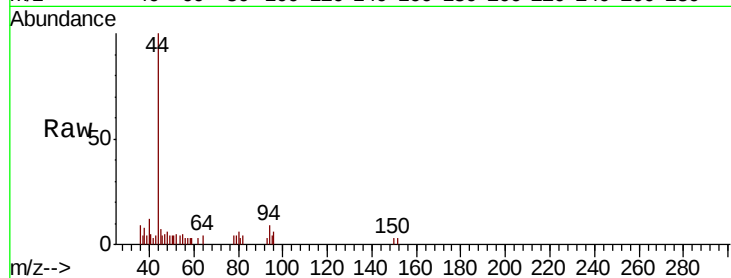
SS042MW130-190411

Tot Ion: 94 Resp: 170

Ion Ratio Lower Upper

94 100

96 46.6 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

150

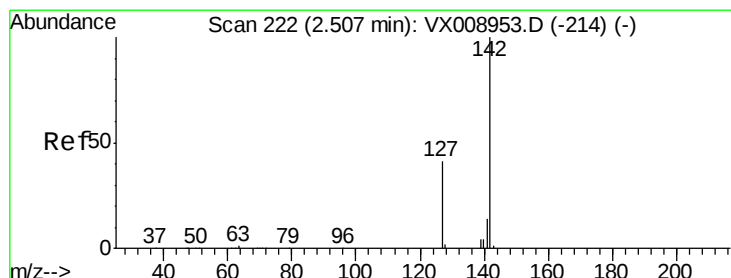
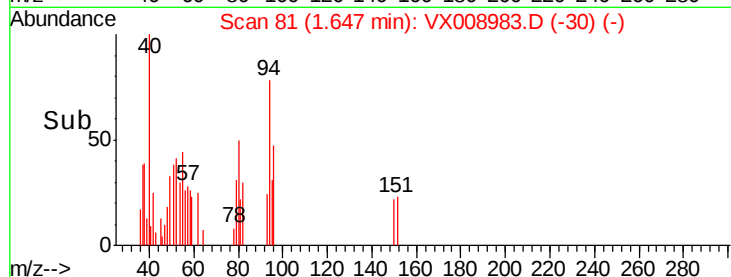
100

50

0

1.62 1.64 1.66 1.68

Time-->



#10

Methyl Iodide

Concen: 4.474 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

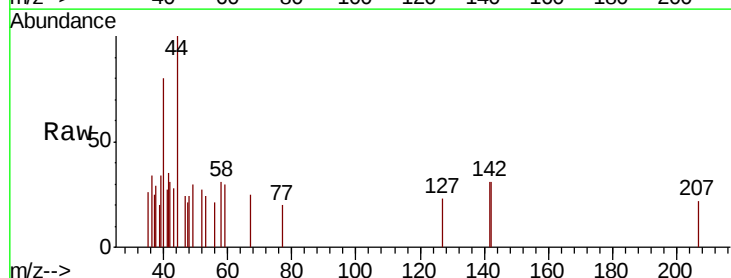
Tgt Ion: 142 Resp: 193

Ion Ratio Lower Upper

142 100

127 24.9 32.8 49.2#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.51

150

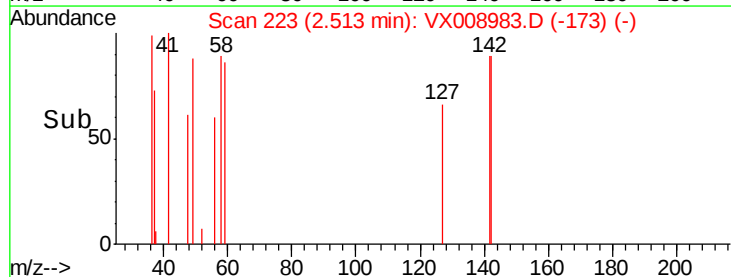
100

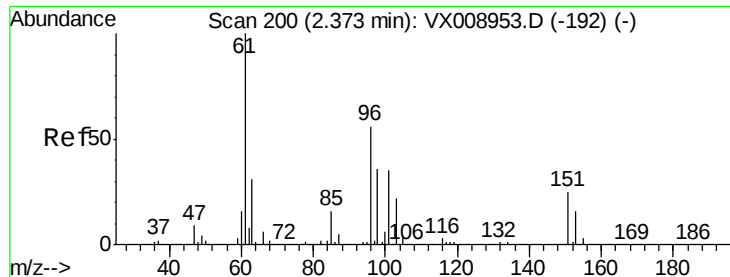
50

0

2.48 2.50 2.52 2.54 2.56

Time-->





#12

1,1-Dichloroethene

Concen: 0.324 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

SS042MW130-190411

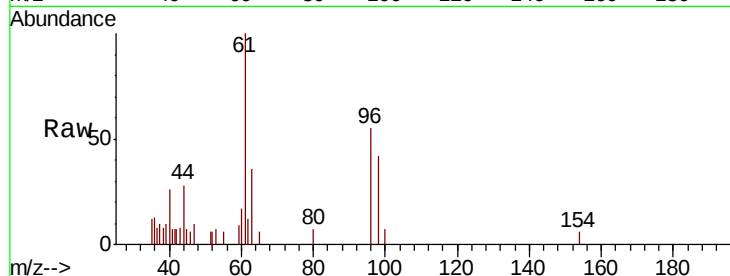
Tot Ion: 96 Resp: 913

Ion Ratio Lower Upper

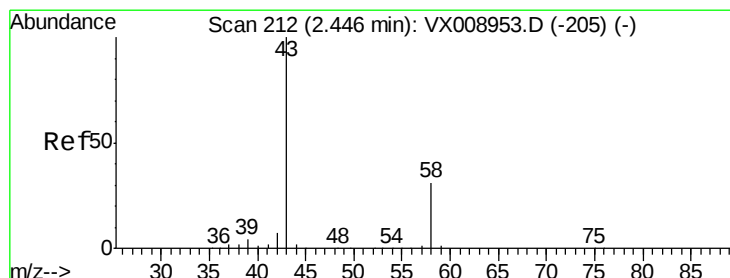
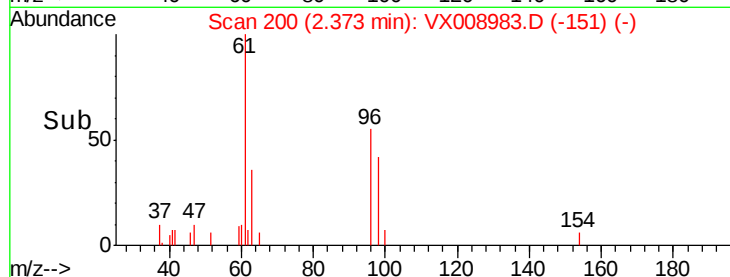
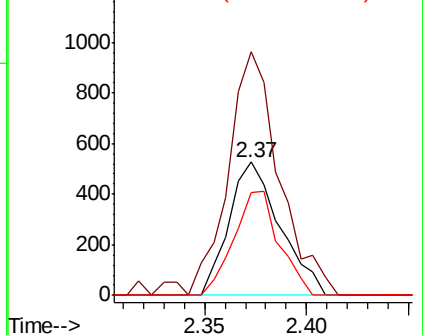
96 100

61 182.7 142.2 213.2

98 77.2 50.9 76.3#



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



#16

Acetone

Concen: 0.740 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008983.D

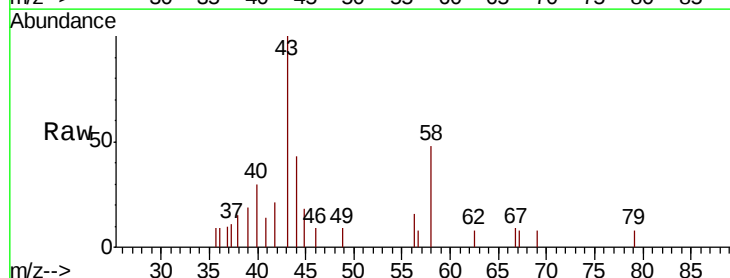
Acq: 16 Apr 2019 13:32

Tgt Ion: 43 Resp: 1421

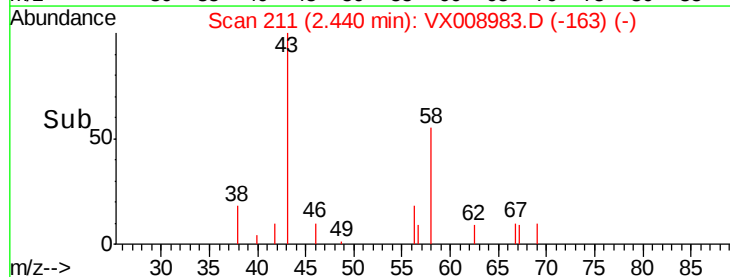
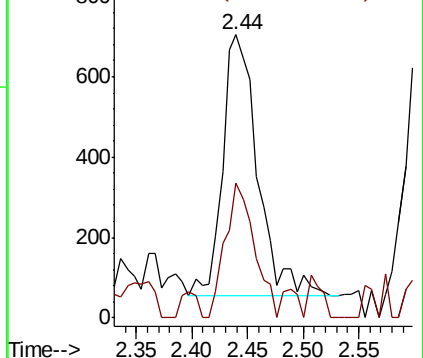
Ion Ratio Lower Upper

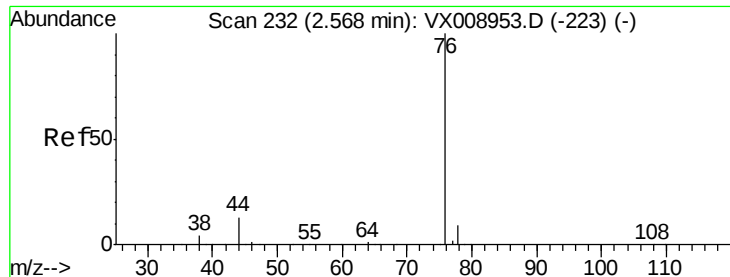
43 100

58 51.5 24.8 37.2#



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





#17

Carbon Disulfide

Concen: 1.345 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

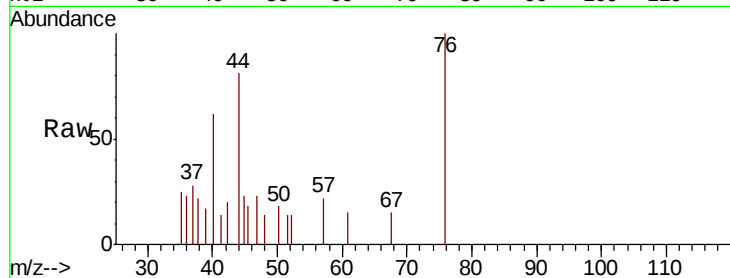
SS042MW130-190411

Tot Ion: 76 Resp: 786

Ion Ratio Lower Upper

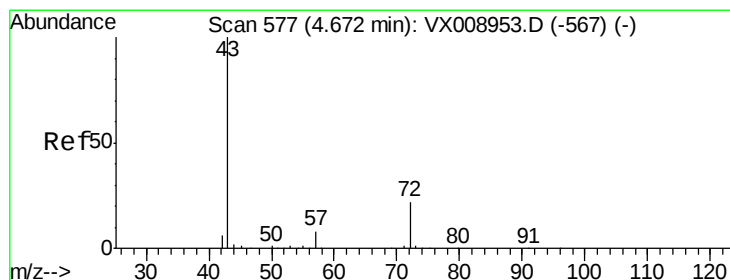
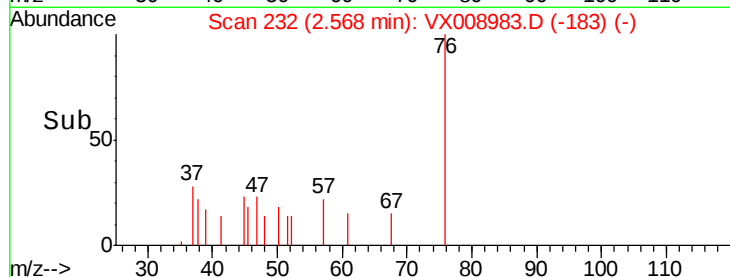
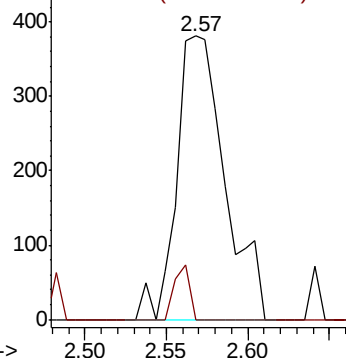
76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#25

2-Butanone

Concen: 0.213 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008983.D

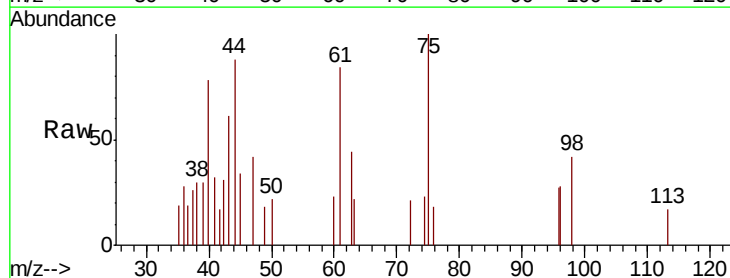
Acq: 16 Apr 2019 13:32

Tgt Ion: 43 Resp: 654

Ion Ratio Lower Upper

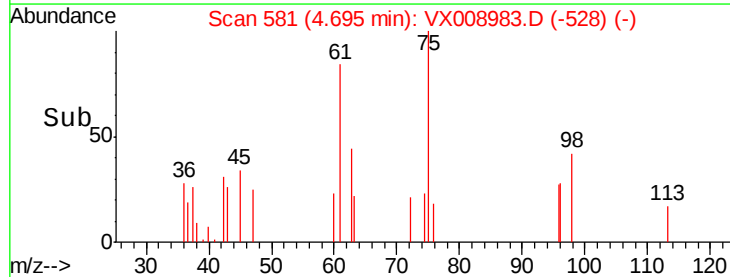
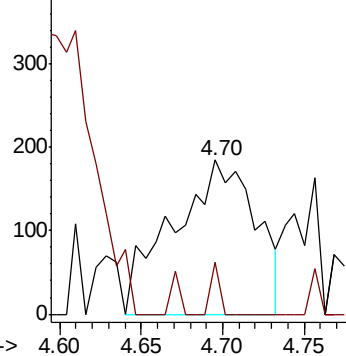
43 100

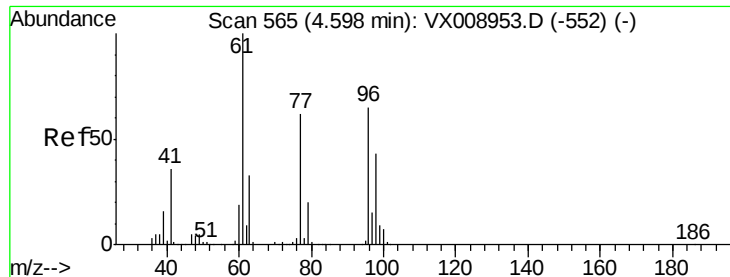
72 34.1 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



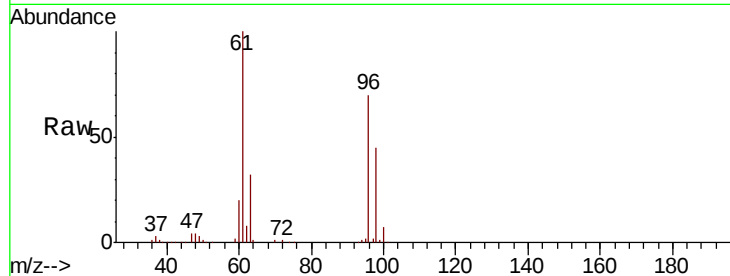


#27

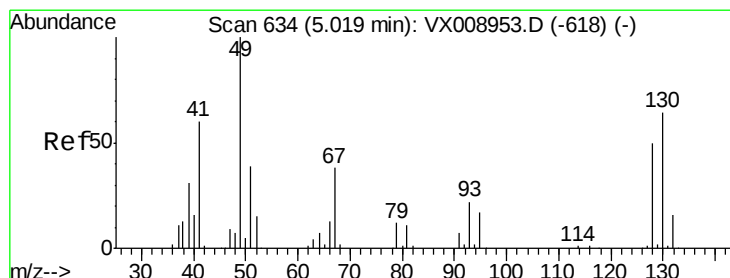
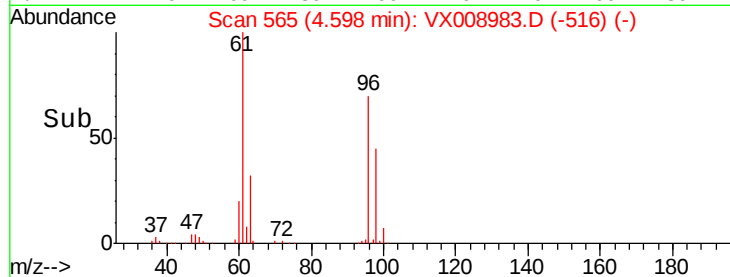
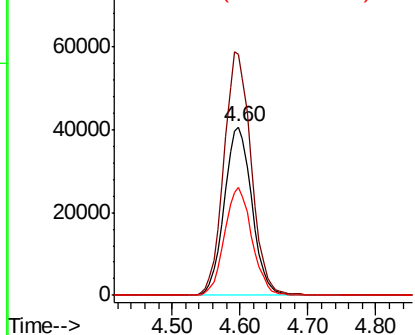
cis-1,2-Dichloroethene
 Concen: 33.440 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008983.D
 Acq: 16 Apr 2019 13:32

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.1	0.0	322.0
98	63.7	0.0	128.4



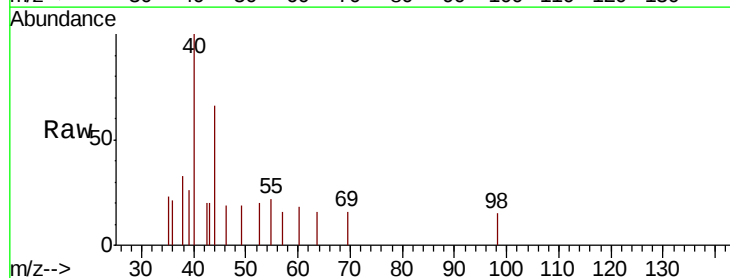
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



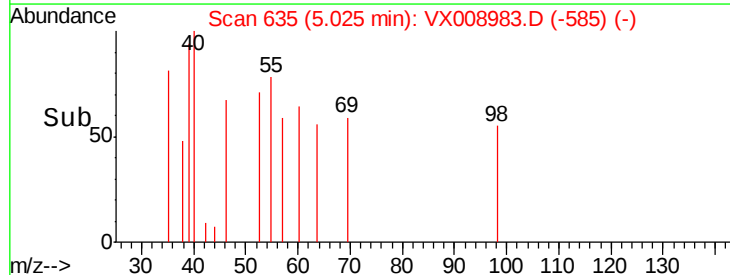
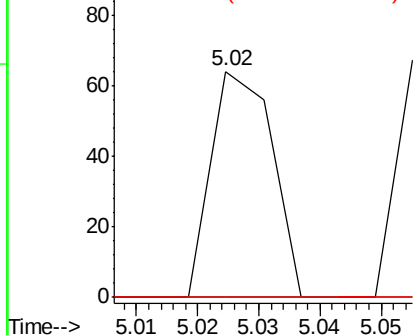
#28

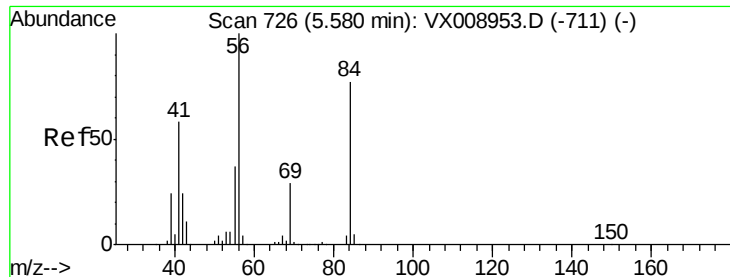
Bromochloromethane
 Concen: Below Cal
 RT: 5.02 min Scan# 635
 Delta R.T. 0.01 min
 Lab File: VX008983.D
 Acq: 16 Apr 2019 13:32

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

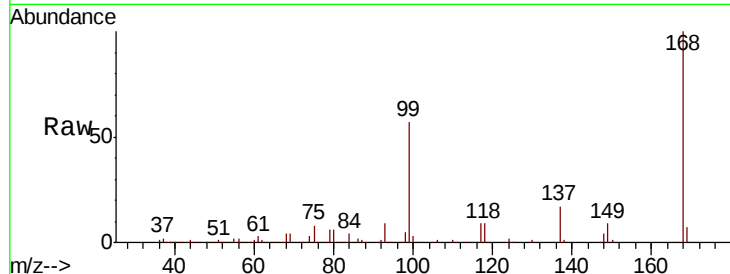




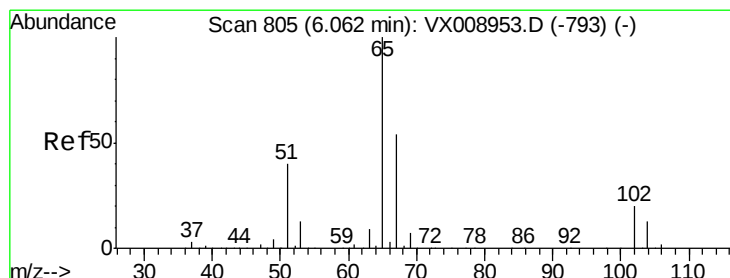
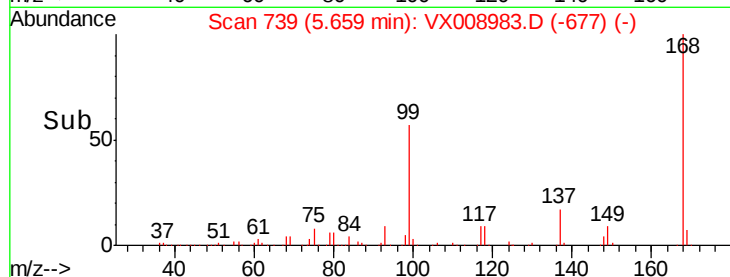
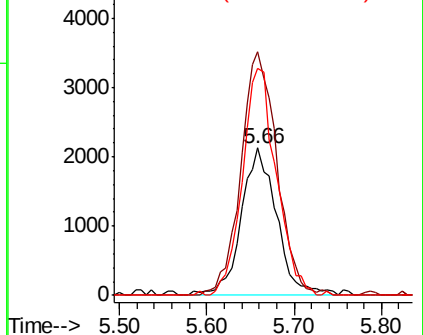
#31
Cyclohexane
Concen: 1.020 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008983.D
Acq: 16 Apr 2019 13:32

Instrument :
MSVOA_X
ClientSampleId :
SS042MW130-190411

Tot Ion: 56 Resp: 6016
Ion Ratio Lower Upper
56 100
69 165.0 23.3 34.9#
84 153.8 61.7 92.5#

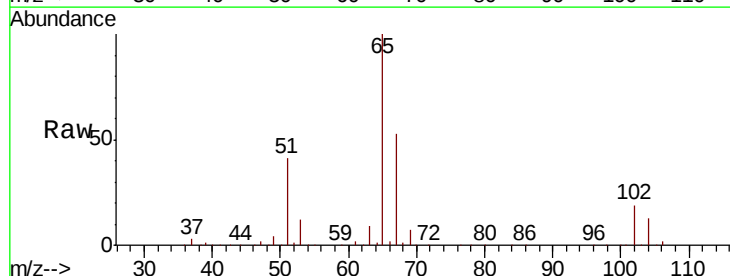


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

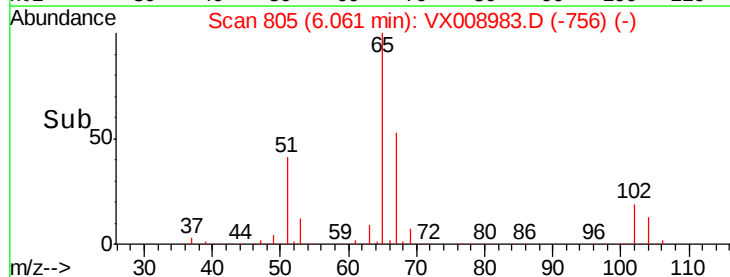
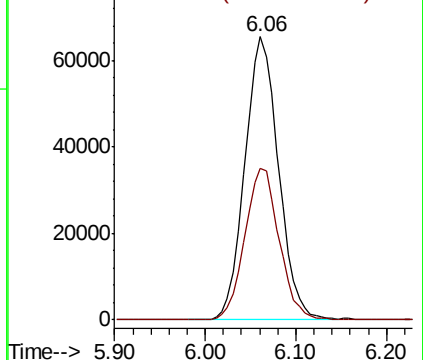


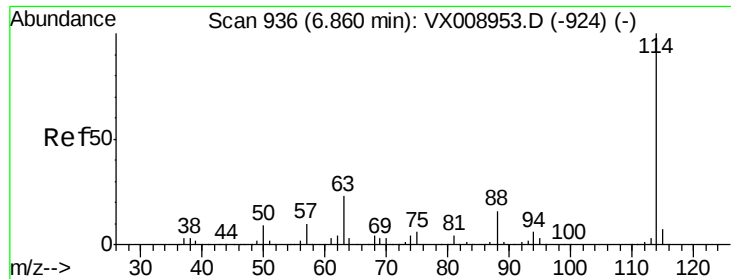
#33
1,2-Dichloroethane-d4
Concen: 45.446 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008983.D
Acq: 16 Apr 2019 13:32

Tgt Ion: 65 Resp: 168296
Ion Ratio Lower Upper
65 100
67 54.7 0.0 108.6



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

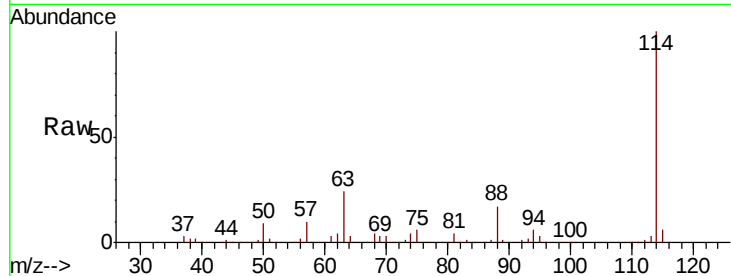




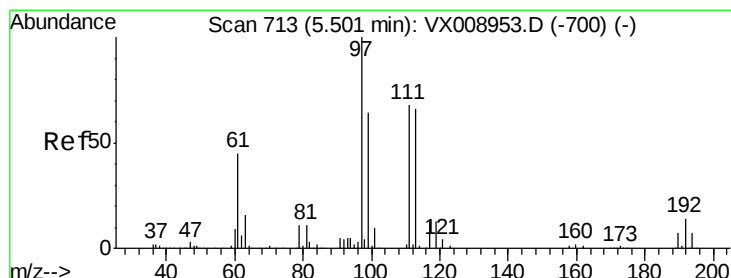
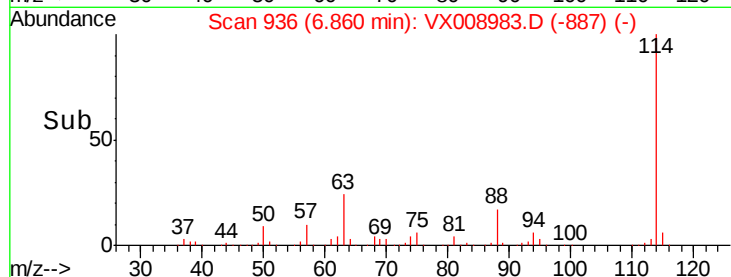
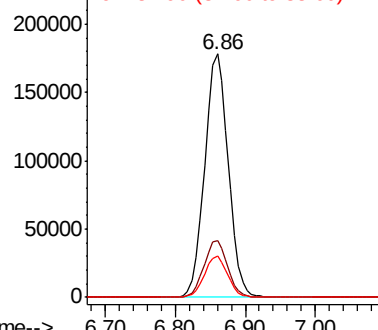
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008983.D
 Acq: 16 Apr 2019 13:32

Instrument :
 MSVOA_X
 ClientSampleId :
 SS042MW130-190411

Tot Ion:114 Resp: 416172
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 46.0
 88 17.1 0.0 32.6

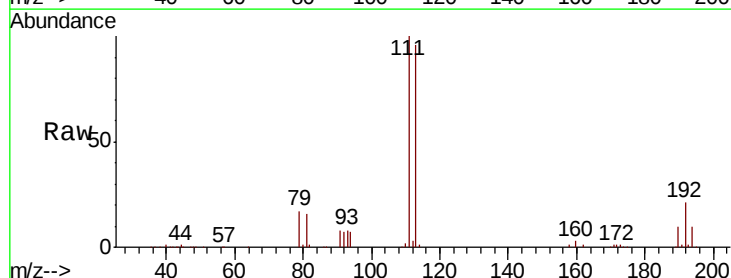


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

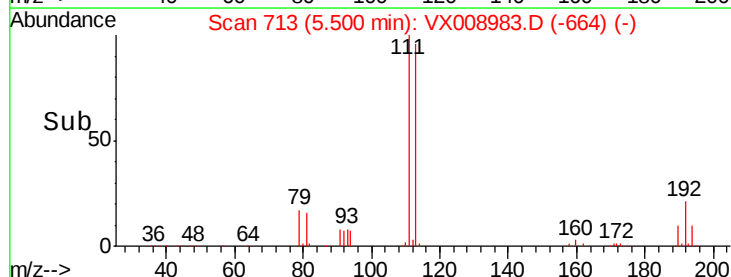
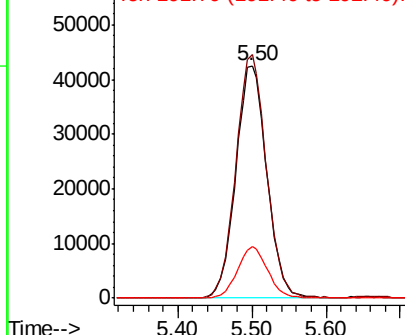


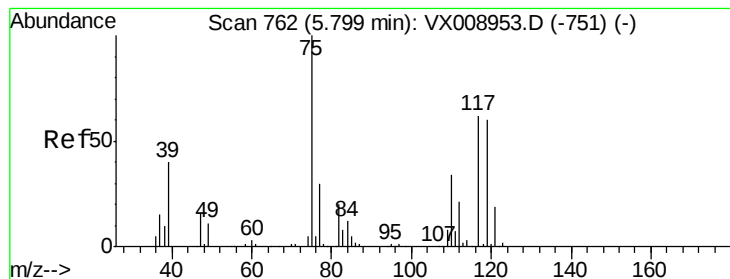
#35
 Dibromofluoromethane
 Concen: 46.440 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008983.D
 Acq: 16 Apr 2019 13:32

Tgt Ion:113 Resp: 124036
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.9 124.3
 192 21.4 17.4 26.0



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: 4.783 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

SS042MW130-190411

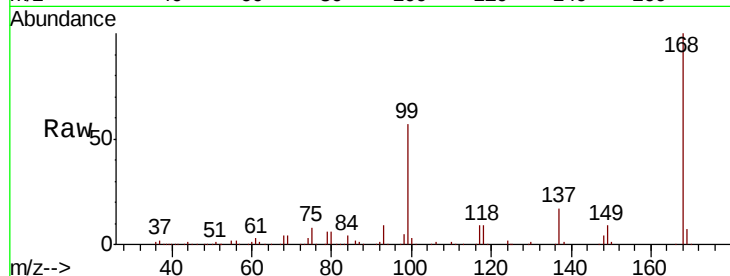
Tot Ion: 75 Resp: 20587

Ion Ratio Lower Upper

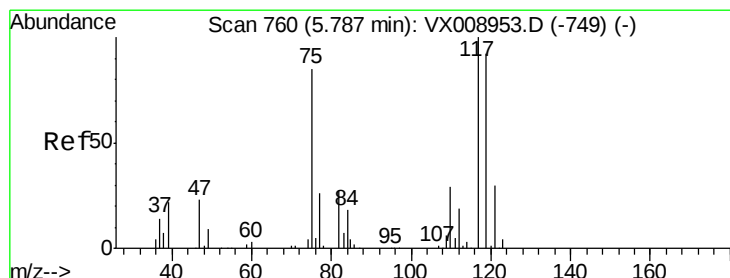
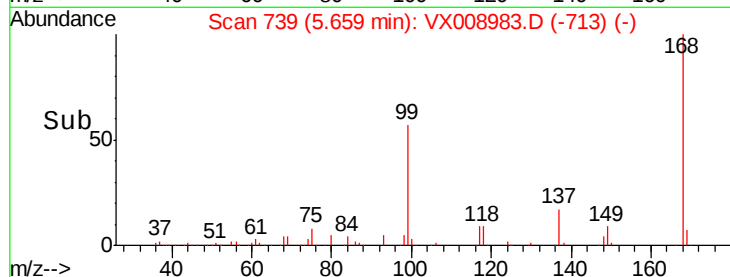
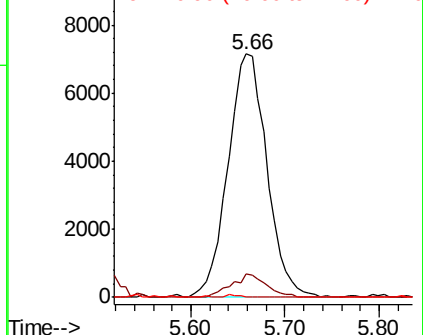
75 100

110 8.5 16.9 50.7#

77 0.3 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.853 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

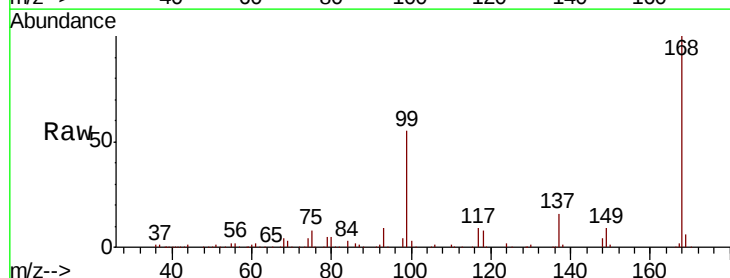
Tgt Ion: 117 Resp: 25006

Ion Ratio Lower Upper

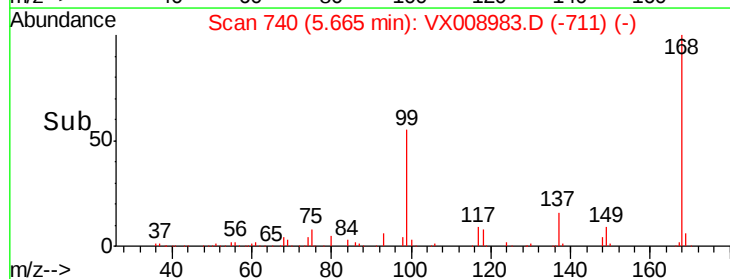
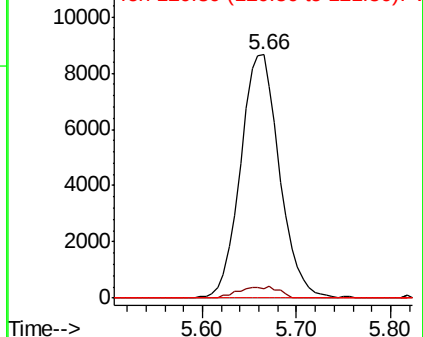
117 100

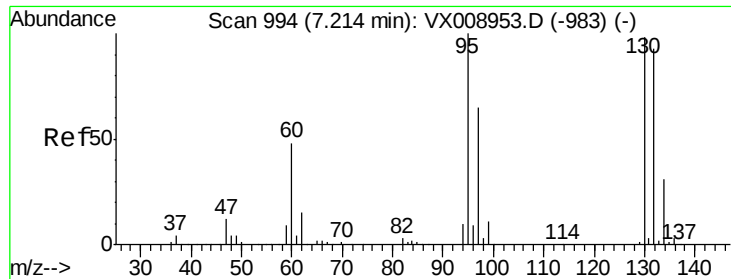
119 3.8 73.8 110.8#

121 0.0 23.6 35.4#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 2.090 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

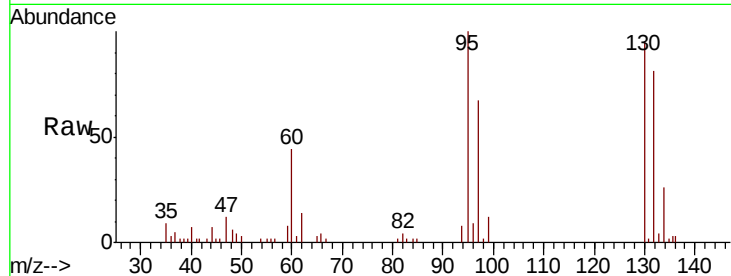
SS042MW130-190411

Tot Ion:130 Resp: 6503

Ion Ratio Lower Upper

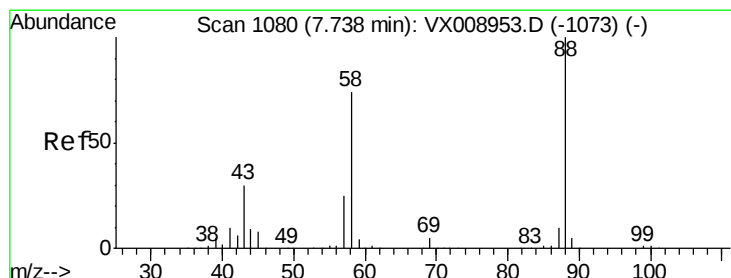
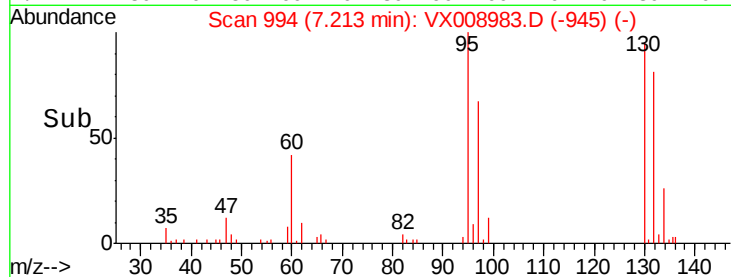
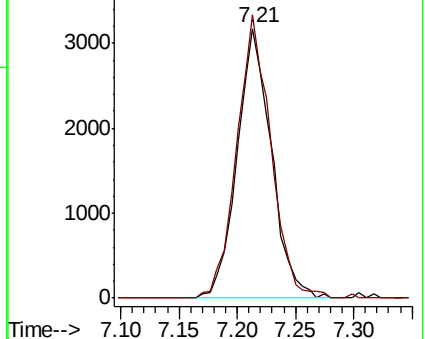
130 100

95 105.0 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: 0.218 ug/l

RT: 7.55 min Scan# 1050

Delta R.T. -0.18 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

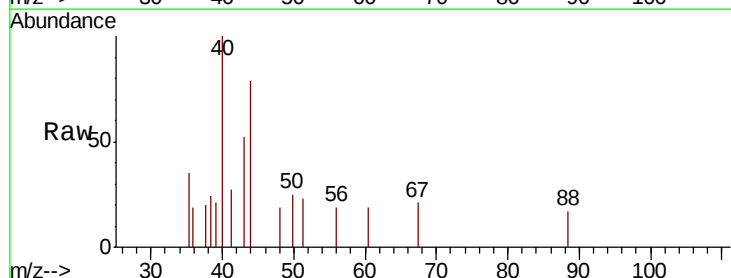
Tgt Ion: 88 Resp: 18

Ion Ratio Lower Upper

88 100

43 1794.4 29.3 43.9#

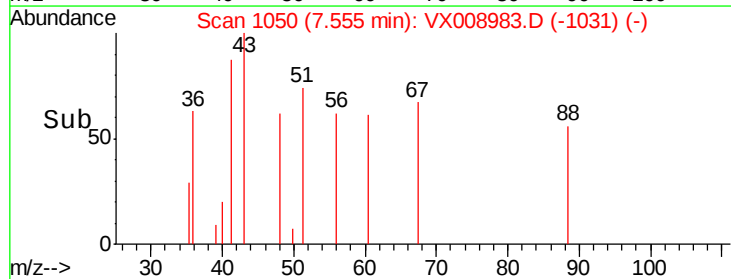
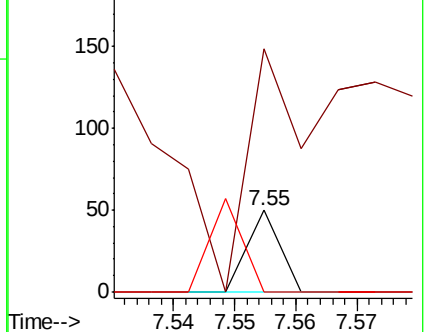
58 116.7 62.6 93.8#

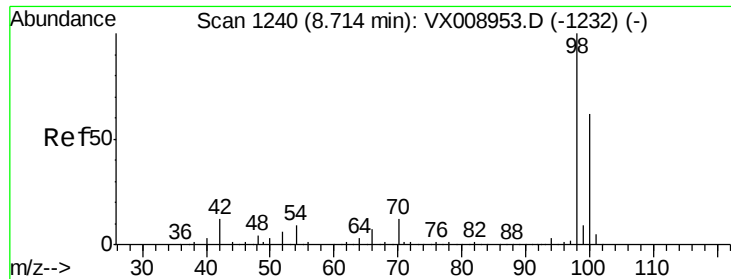


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.599 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

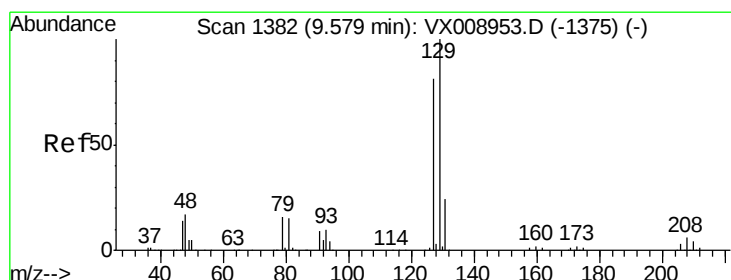
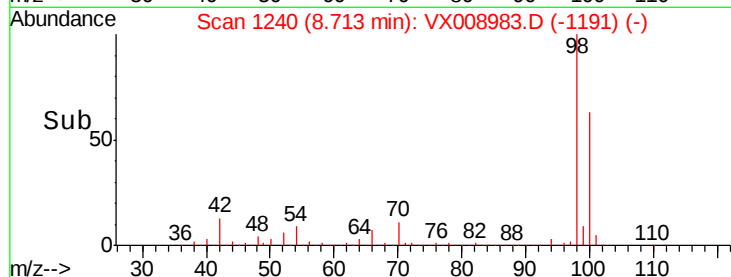
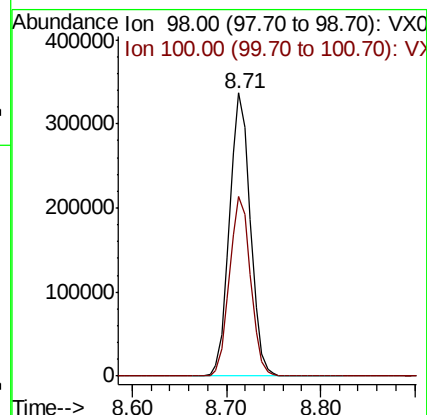
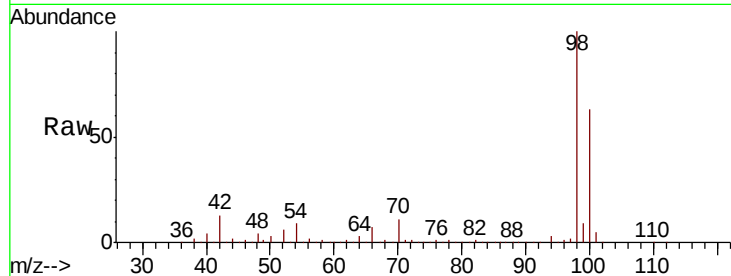
SS042MW130-190411

Tot Ion: 98 Resp: 517664

Ion Ratio Lower Upper

98 100

100 64.3 51.4 77.2



#60

Dibromochloromethane

Concen: 0.836 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008983.D

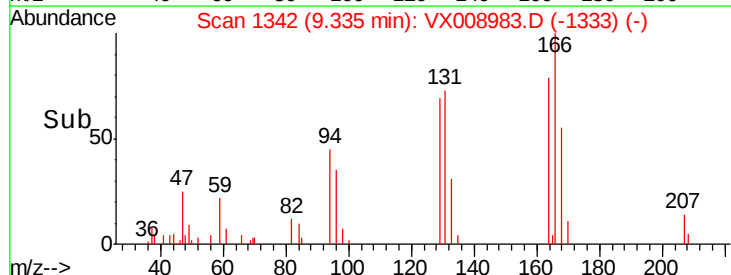
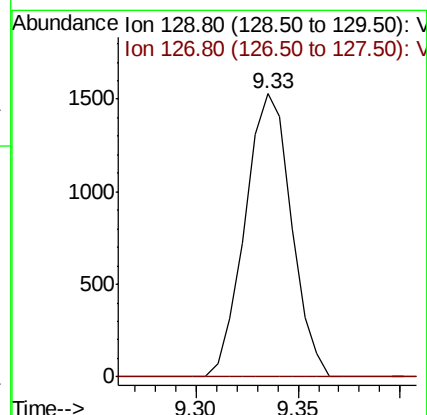
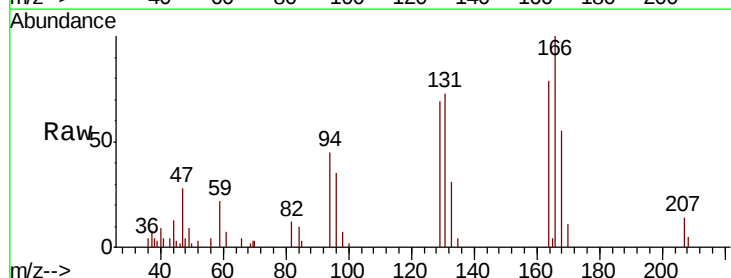
Acq: 16 Apr 2019 13:32

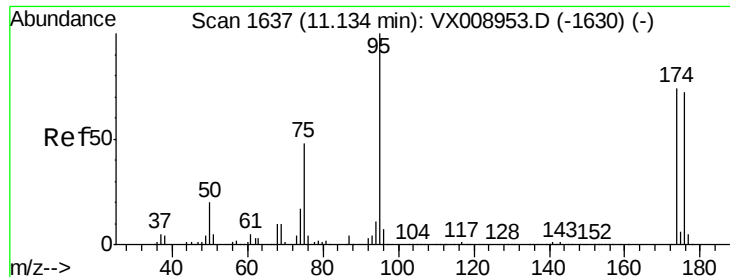
Tgt Ion:129 Resp: 2416

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 46.029 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

SS042MW130-190411

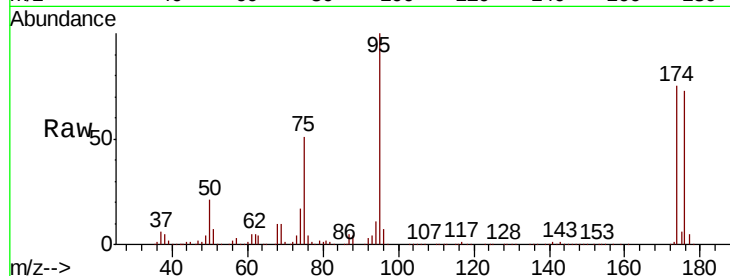
Tot Ion: 95 Resp: 173071

Ion Ratio Lower Upper

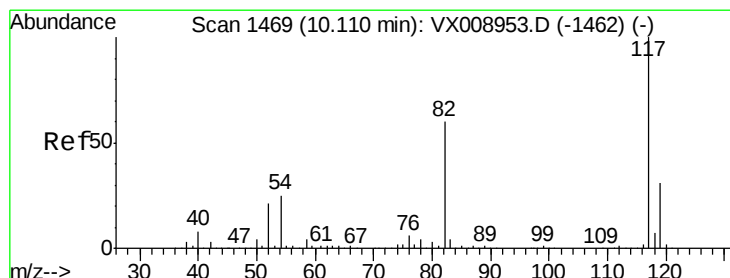
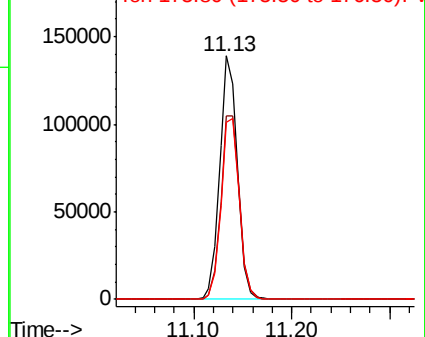
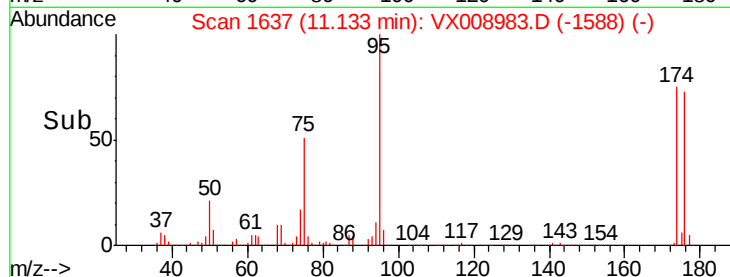
95 100

174 79.5 0.0 159.6

176 77.2 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008983.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

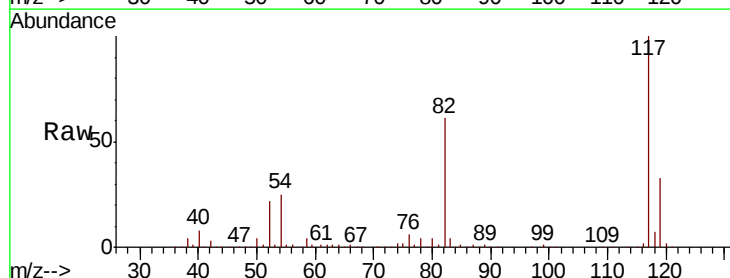
Tgt Ion: 117 Resp: 360685

Ion Ratio Lower Upper

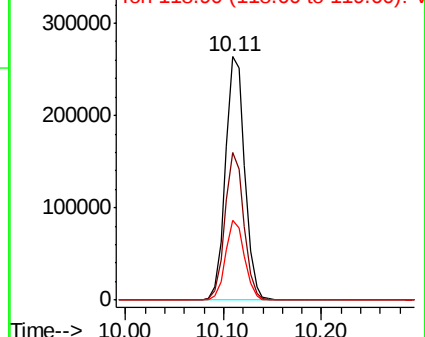
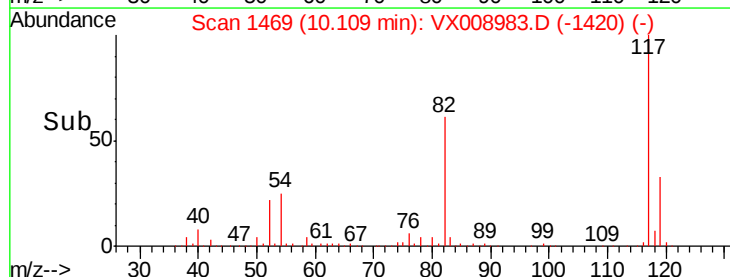
117 100

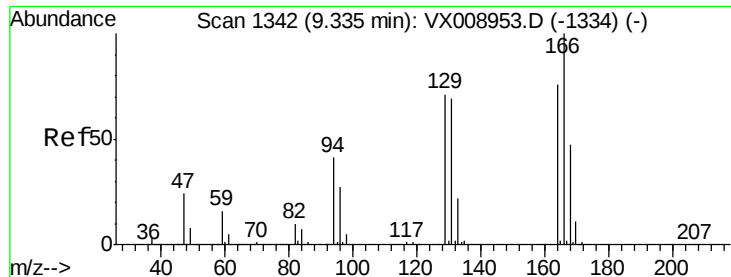
82 60.6 48.2 72.4

119 32.6 25.0 37.6



Abundance Ion 116.90 (116.60 to 117.60): VX008983.D (-1420) (-)

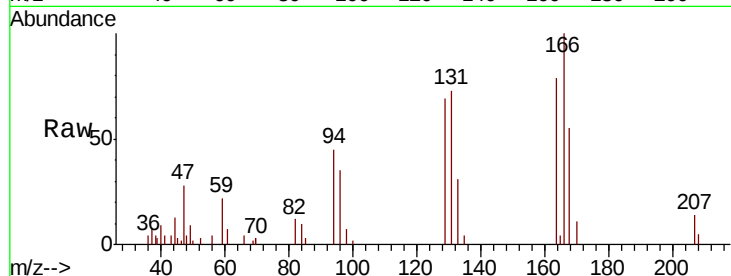




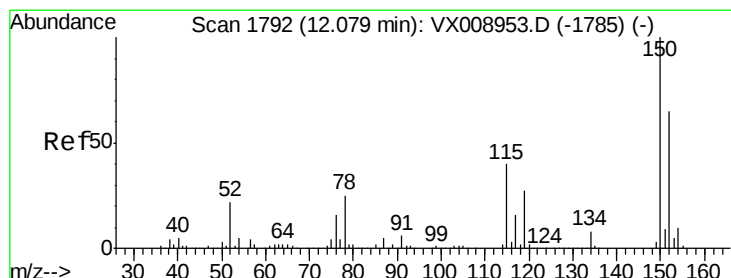
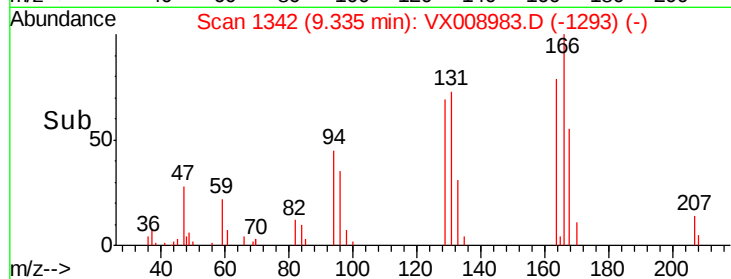
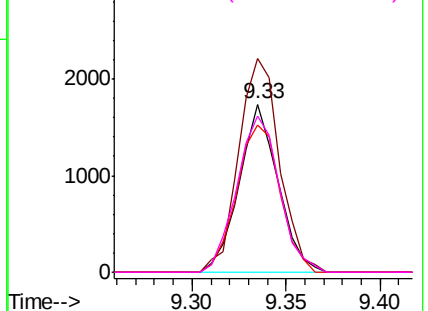
#64
Tetrachloroethene
Concen: 0.908 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008983.D
Acq: 16 Apr 2019 13:32

Instrument :
MSVOA_X
ClientSampleId :
SS042MW130-190411

Tot Ion:164 Resp: 2487
Ion Ratio Lower Upper
164 100
166 126.9 105.0 157.4
129 87.7 74.2 111.4
131 92.8 72.2 108.2

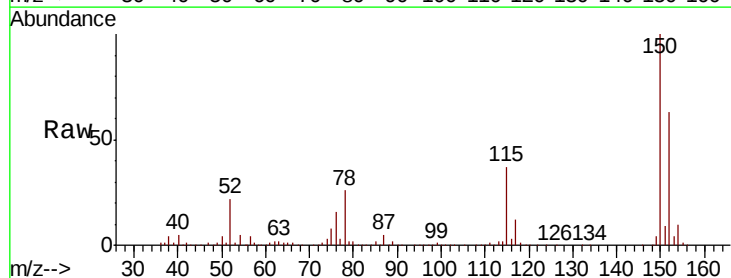


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

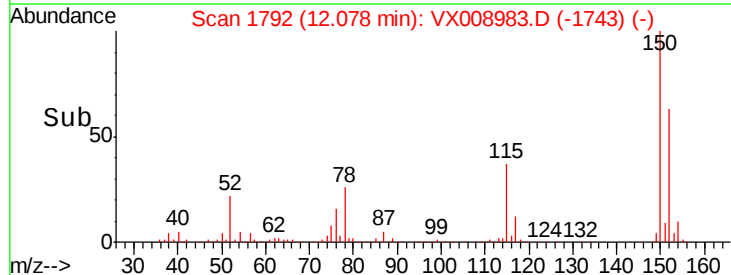
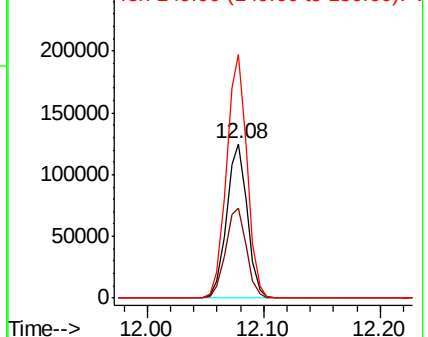


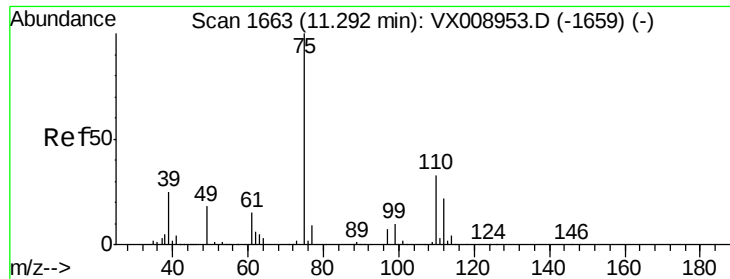
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008983.D
Acq: 16 Apr 2019 13:32

Tgt Ion:152 Resp: 152565
Ion Ratio Lower Upper
152 100
115 59.2 41.4 124.2
150 157.4 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: 23.349 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

Instrument :

MSVOA_X

ClientSampleId :

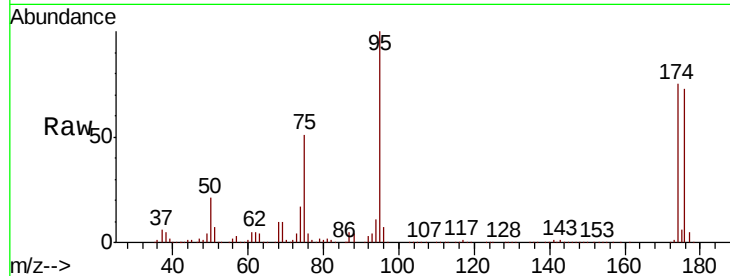
SS042MW130-190411

Tot Ion: 75 Resp: 86984

Ion Ratio Lower Upper

75 100

77 1.3 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

80000

60000

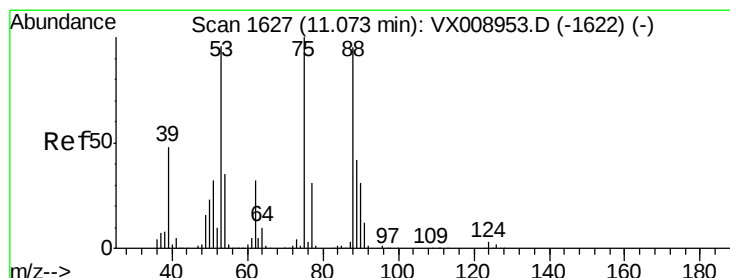
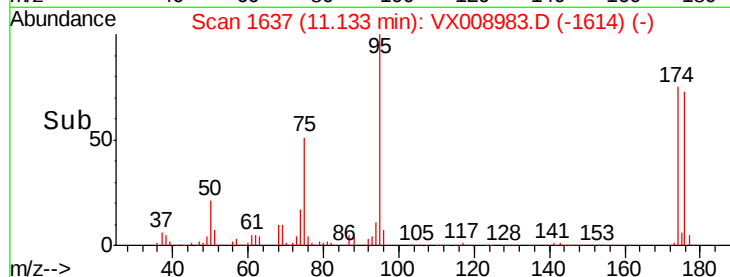
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 59.944 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008983.D

Acq: 16 Apr 2019 13:32

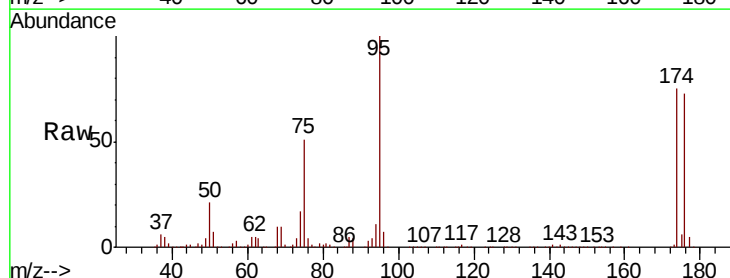
Tgt Ion: 75 Resp: 86984

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.1 36.0 54.0#



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

11.13

80000

60000

40000

20000

0

Time-->

11.10 11.20

