

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041819\
 Data File : VX009048.D
 Acq On : 18 Apr 2019 16:55
 Operator : JC/SP
 Sample : K2449-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW304-190416

Quant Time: Apr 19 01:39:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	235241	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383949	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	327123	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	137775	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	160123	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	5.50	113	117520	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	8.71	98	475012	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
62) 4-Bromofluorobenzene	11.13	95	154527	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	

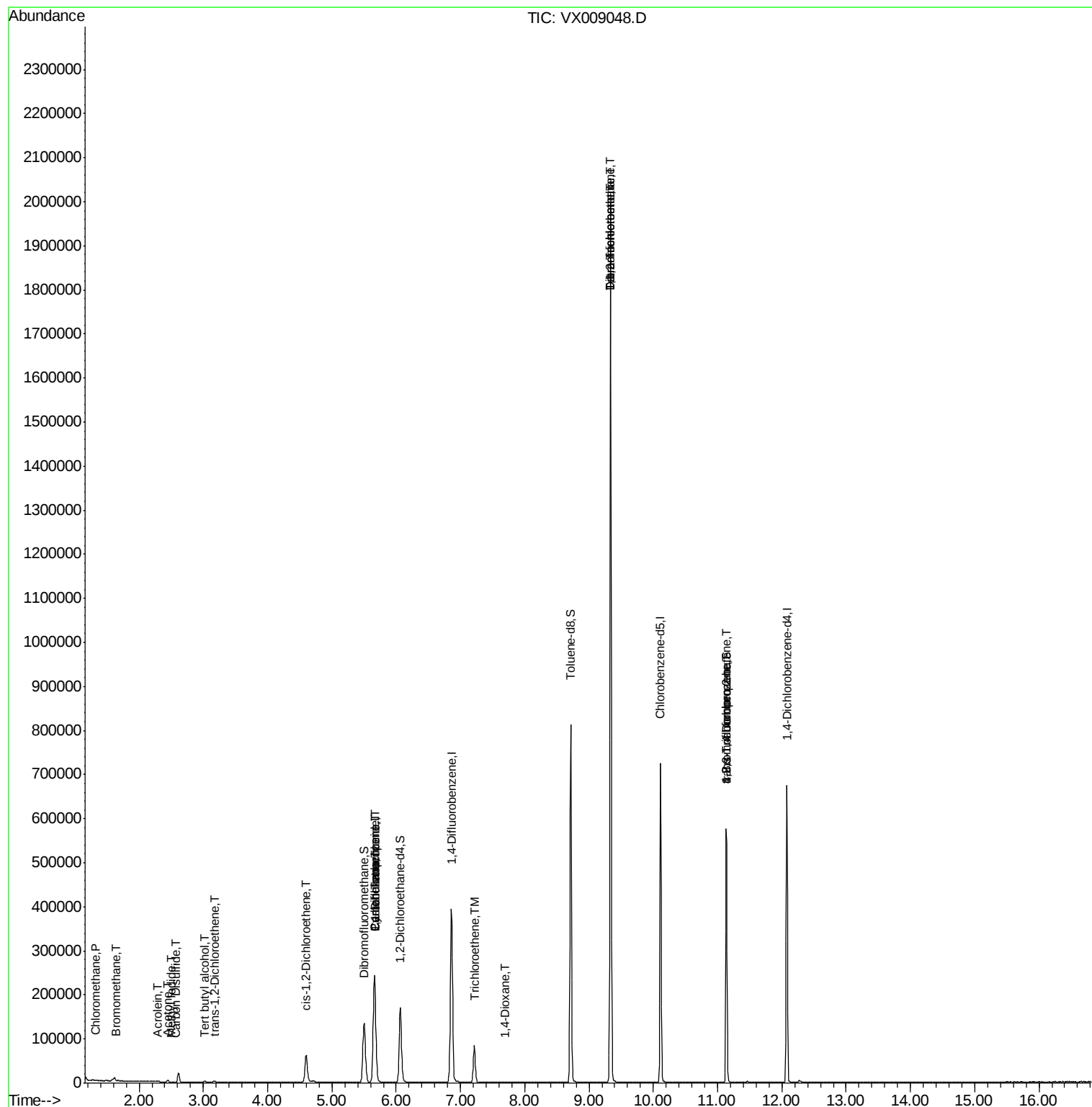
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	695	0.209	ug/l #	81
5) Bromomethane	1.64	94	253	3.963	ug/l	96
10) Methyl Iodide	2.50	142	49	4.431	ug/l #	88
11) Tert butyl alcohol	3.02	59	1825	2.480	ug/l #	80
13) Acrolein	2.29	56	178	0.280	ug/l #	1
16) Acetone	2.45	43	5546	3.226	ug/l	97
17) Carbon Disulfide	2.57	76	475	1.315	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	1356	0.504	ug/l #	78
27) cis-1,2-Dichloroethene	4.60	96	38147	12.487	ug/l	91
28) Bromochloromethane	5.00	49	27	Below Cal	#	21
31) Cyclohexane	5.66	56	5358	1.015	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18788	4.731	ug/l #	50
38) Carbon Tetrachloride	5.67	117	22838	6.784	ug/l #	18
44) Trichloroethene	7.21	130	32029	11.159	ug/l	98
49) 1,4-Dioxane	7.70	88	25	0.328	ug/l #	1
55) 1,1,2-Trichloroethane	9.34	97	3278	1.178	ug/l #	1
60) Dibromochloromethane	9.34	129	350301	131.359	ug/l #	10
64) Tetrachloroethene	9.34	164	371228	149.382	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	78661	23.382	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	78661	60.028	ug/l #	11

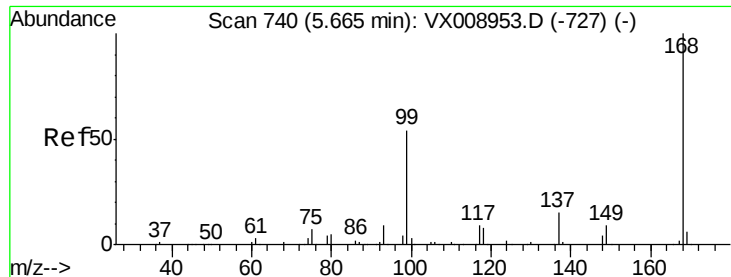
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

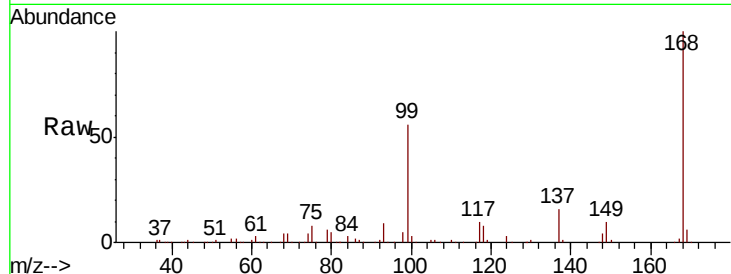
SS037MW304-190416

Tot Ion:168 Resp: 235241

Ion Ratio Lower Upper

168 100

99 56.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

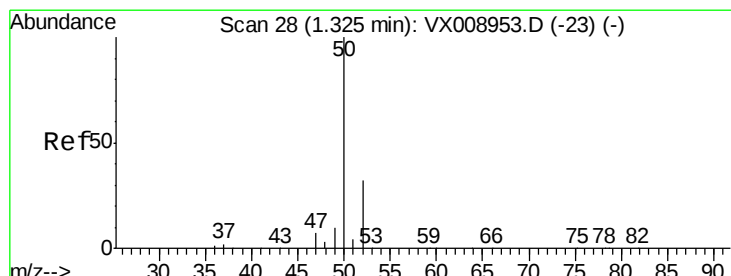
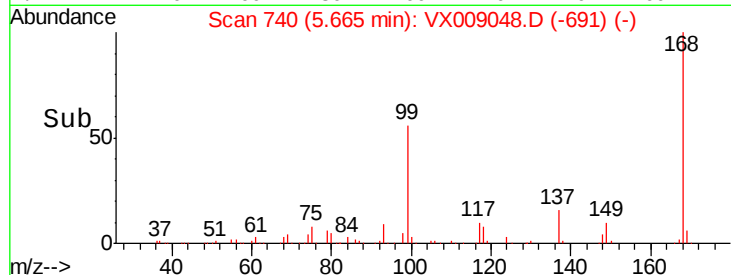
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.209 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009048.D

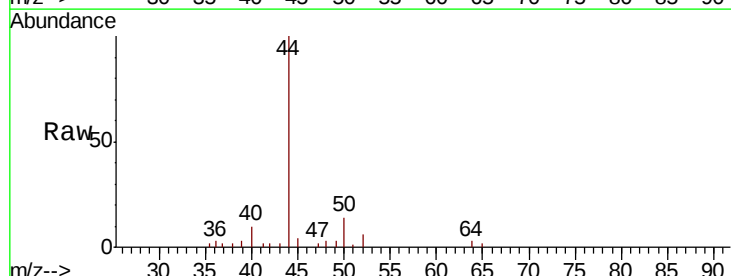
Acq: 18 Apr 2019 16:55

Tgt Ion: 50 Resp: 695

Ion Ratio Lower Upper

50 100

52 42.7 25.5 38.3#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

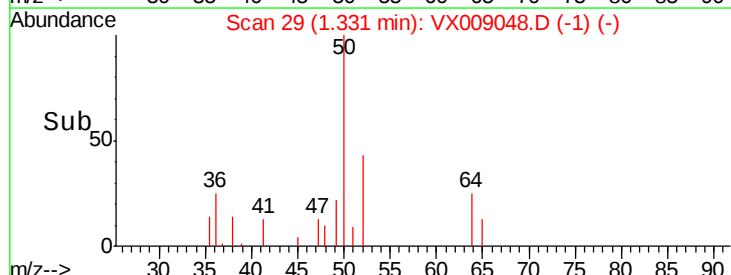
600

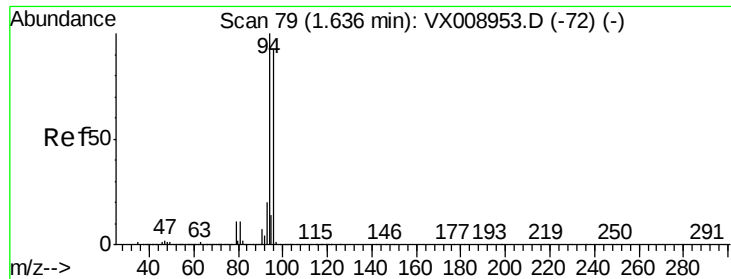
400

200

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 3.963 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

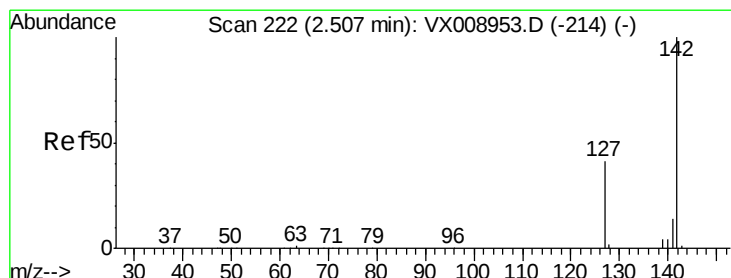
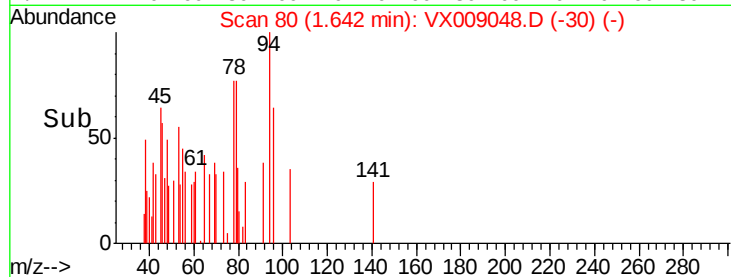
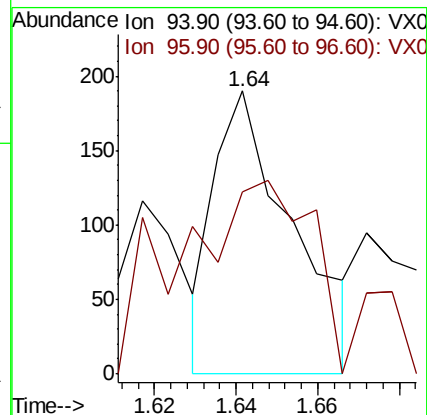
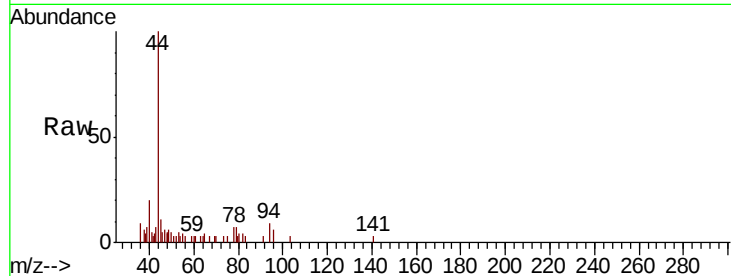
SS037MW304-190416

Tot Ion: 94 Resp: 253

Ion Ratio Lower Upper

94 100

96 89.1 73.9 110.9



#10

Methyl Iodide

Concen: 4.431 ug/l

RT: 2.50 min Scan# 221

Delta R.T. -0.01 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

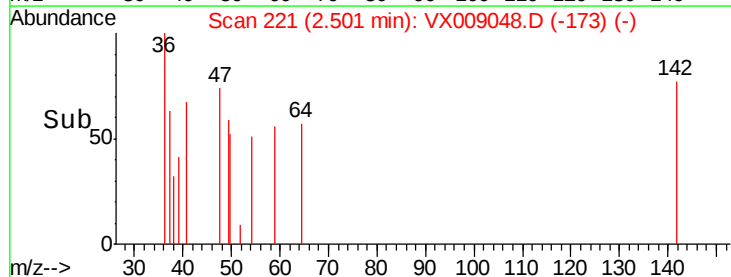
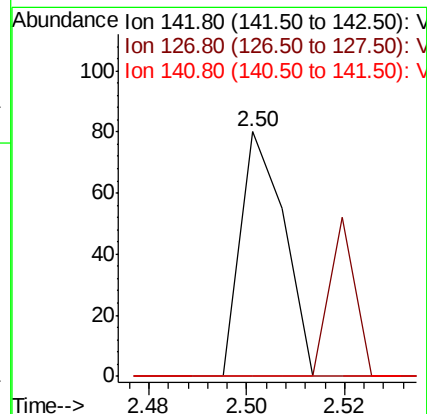
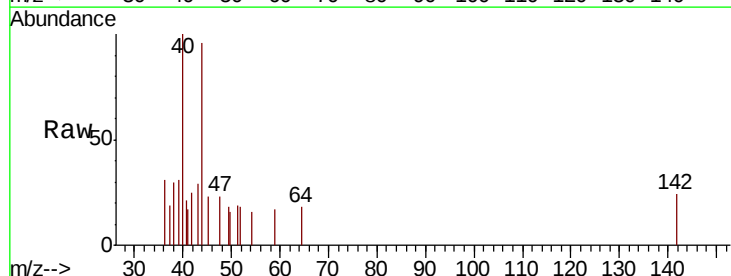
Tgt Ion: 142 Resp: 49

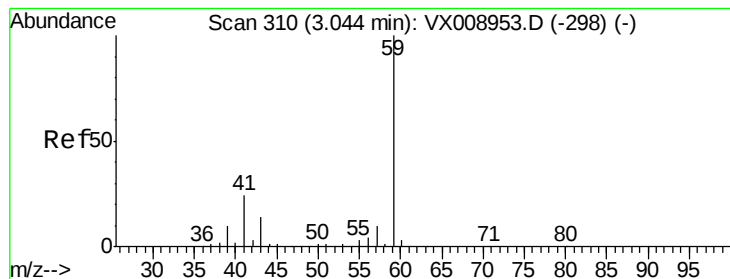
Ion Ratio Lower Upper

142 100

127 38.8 32.8 49.2

141 0.0 11.4 17.2#



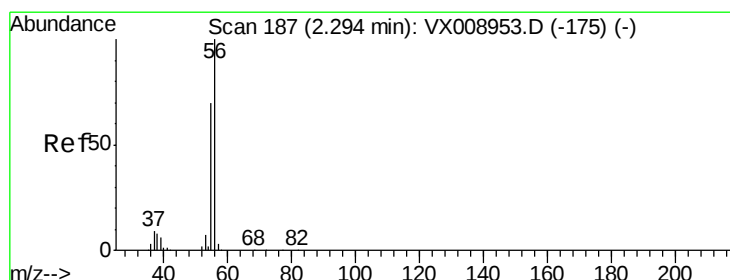
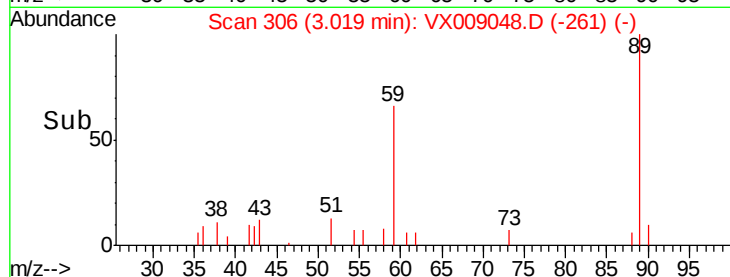
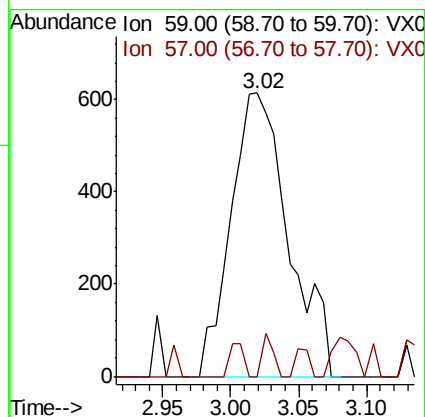
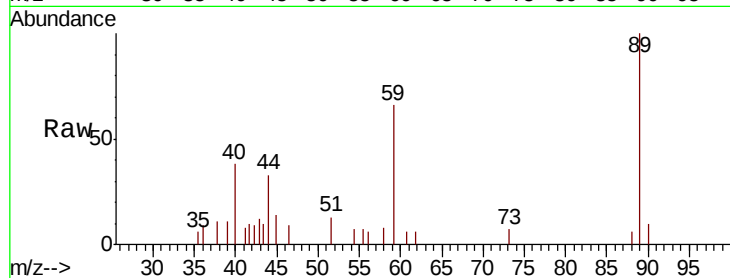


#11

Tert butyl alcohol
 Concen: 2.480 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX009048.D
 Acq: 18 Apr 2019 16:55

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW304-190416

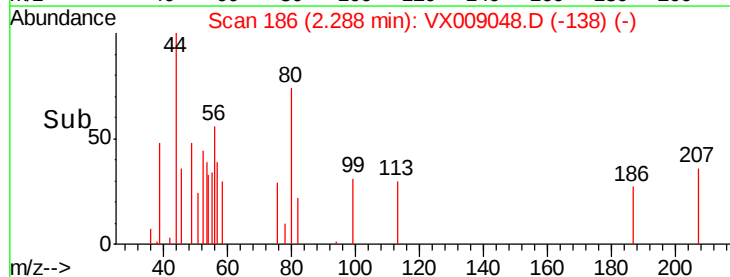
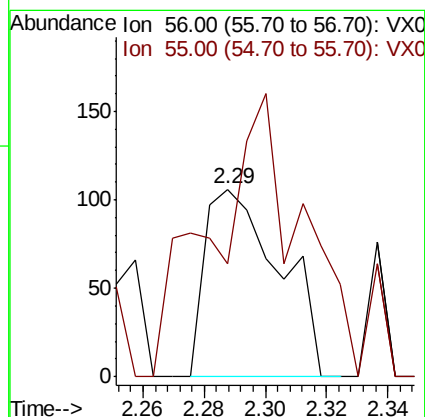
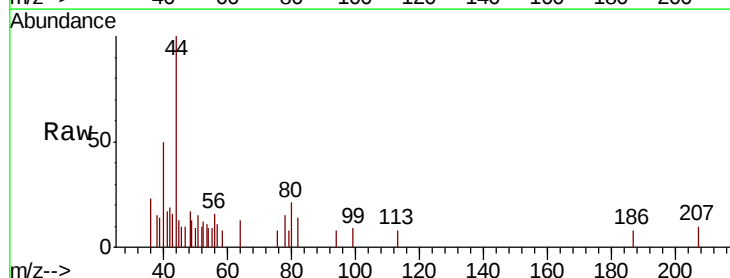
Tot Ion: 59 Resp: 1825
 Ion Ratio Lower Upper
 59 100
 57 2.9 8.4 12.6#

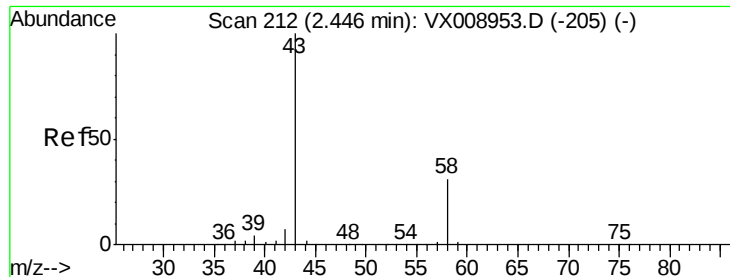


#13

Acrolein
 Concen: 0.280 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX009048.D
 Acq: 18 Apr 2019 16:55

Tgt Ion: 56 Resp: 178
 Ion Ratio Lower Upper
 56 100
 55 181.5 56.6 84.8#





#16

Acetone

Concen: 3.226 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

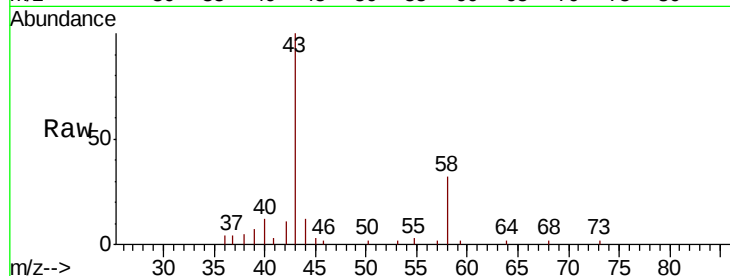
SS037MW304-190416

Tot Ion: 43 Resp: 5546

Ion Ratio Lower Upper

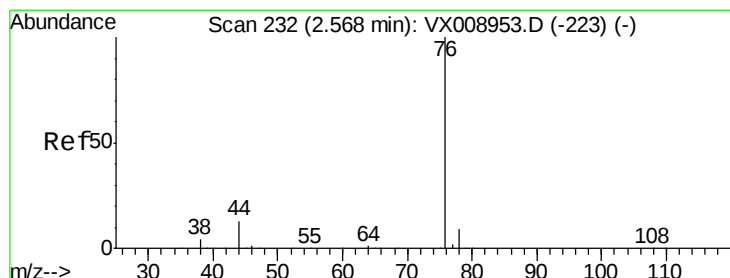
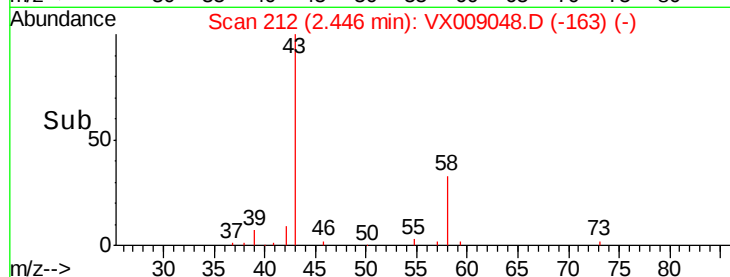
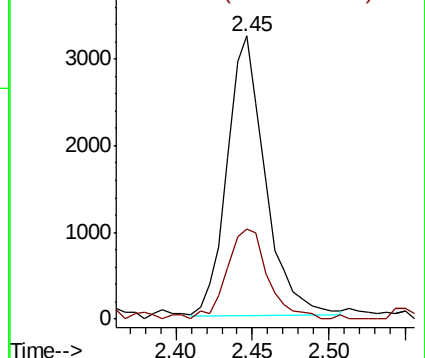
43 100

58 32.6 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: 1.315 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009048.D

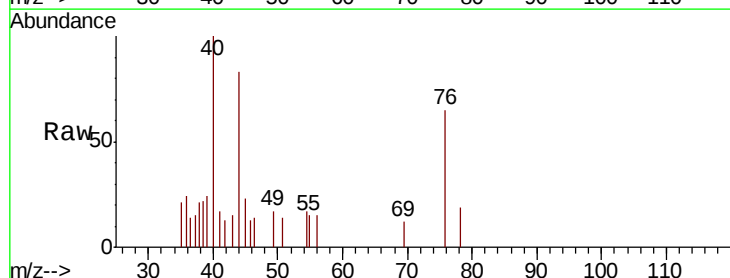
Acq: 18 Apr 2019 16:55

Tgt Ion: 76 Resp: 475

Ion Ratio Lower Upper

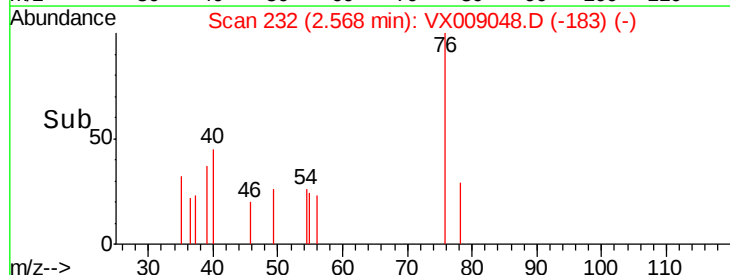
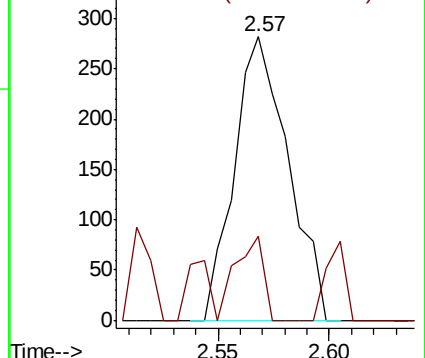
76 100

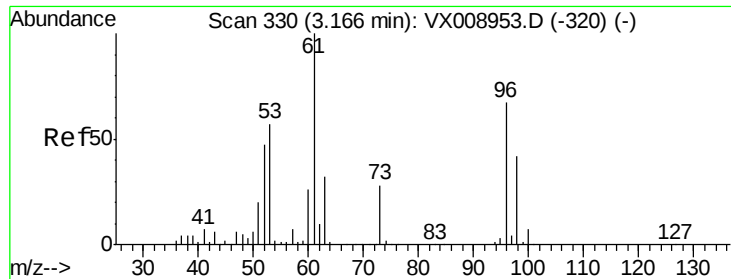
78 9.6 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#21

trans-1,2-Dichloroethene

Concen: 0.504 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

SS037MW304-190416

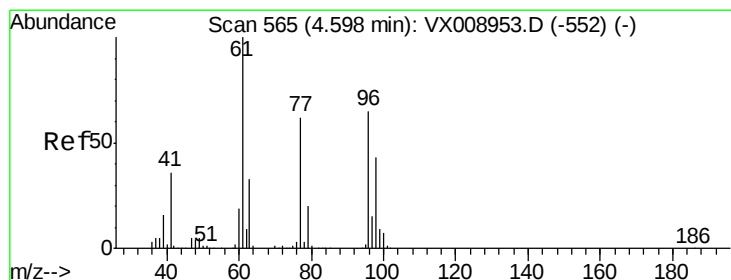
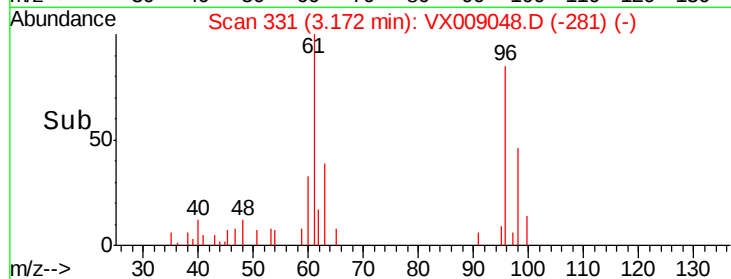
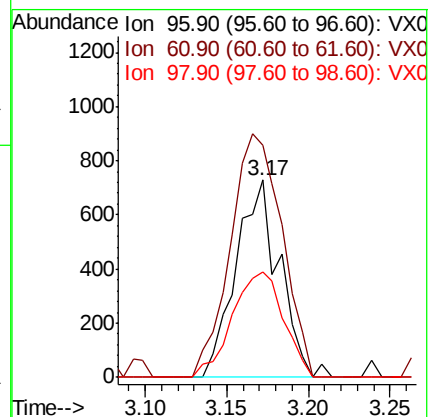
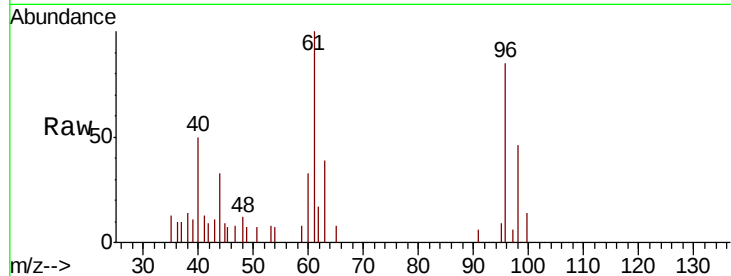
Tot Ion: 96 Resp: 1356

Ion Ratio Lower Upper

96 100

61 117.8 120.3 180.5#

98 53.6 50.2 75.2



#27

cis-1,2-Dichloroethene

Concen: 12.487 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

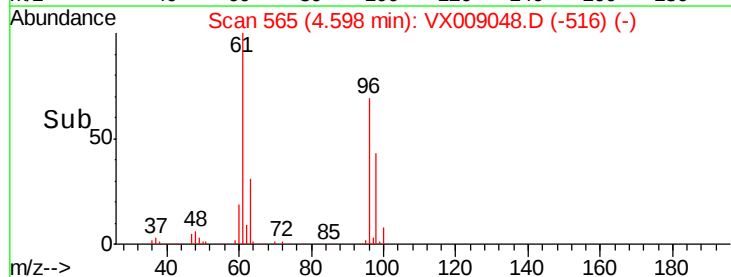
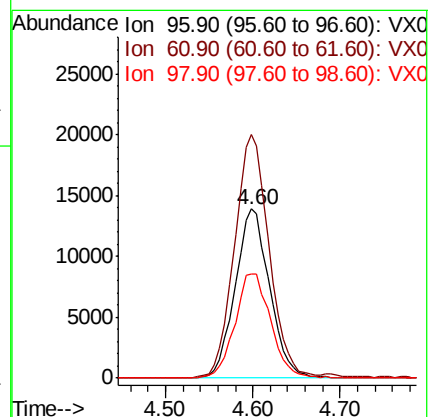
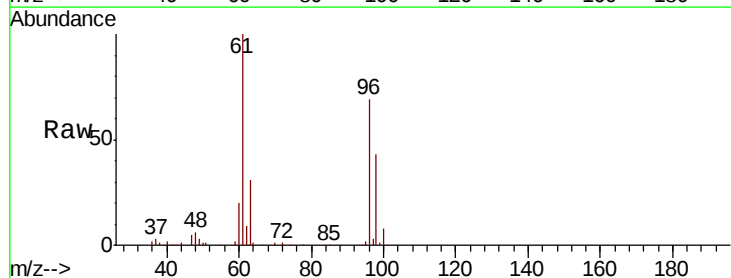
Tgt Ion: 96 Resp: 38147

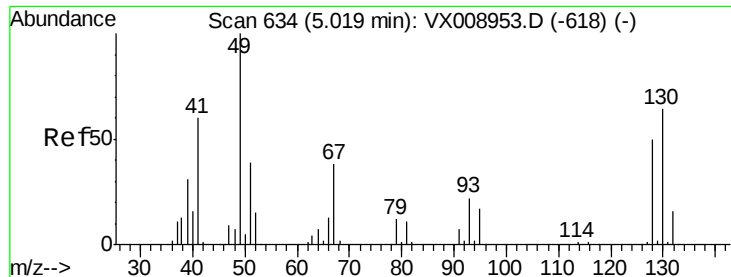
Ion Ratio Lower Upper

96 100

61 144.4 0.0 322.0

98 64.0 0.0 128.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.00 min Scan# 631

Delta R.T. -0.02 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

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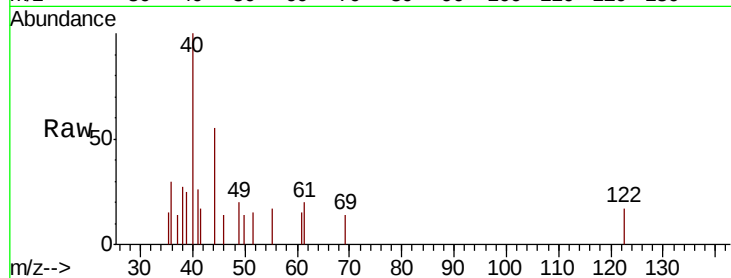
Tot Ion: 49 Resp: 27

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

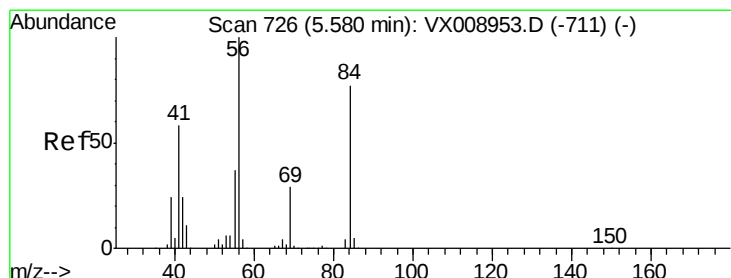
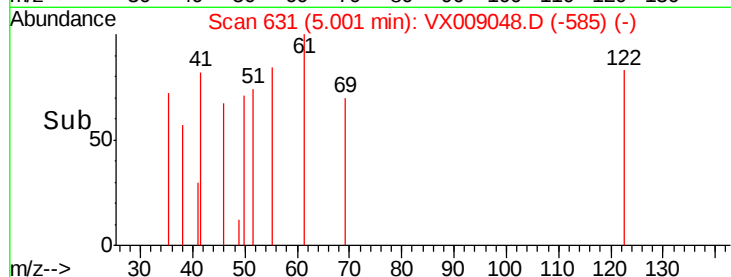
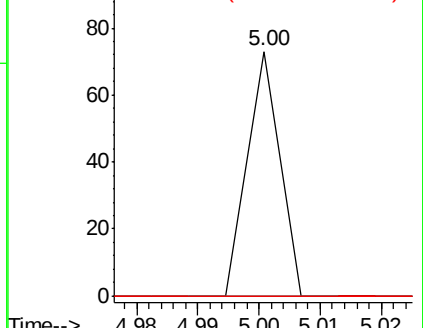
130 0.0 50.4 75.6#



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: 1.015 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

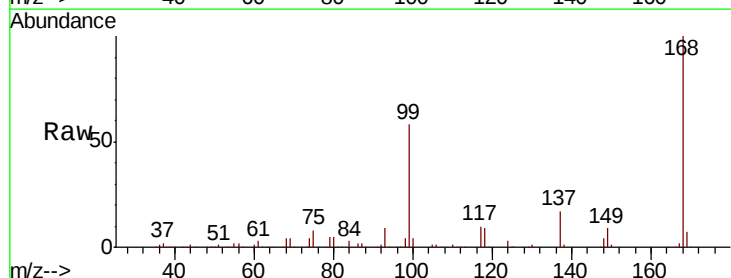
Tgt Ion: 56 Resp: 5358

Ion Ratio Lower Upper

56 100

69 171.0 23.3 34.9#

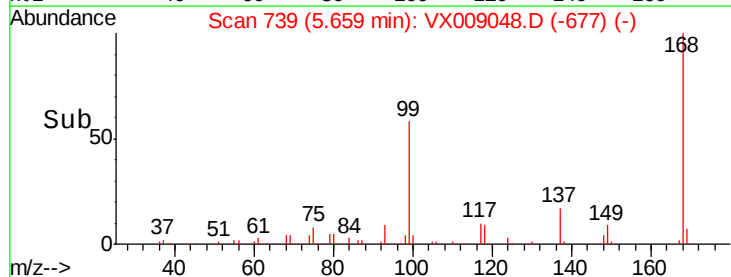
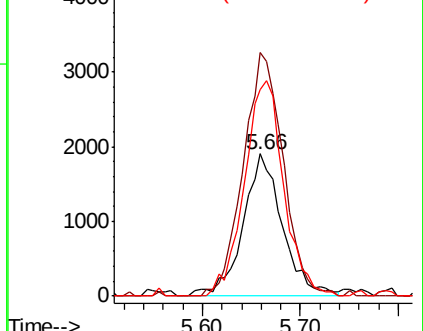
84 145.2 61.7 92.5#

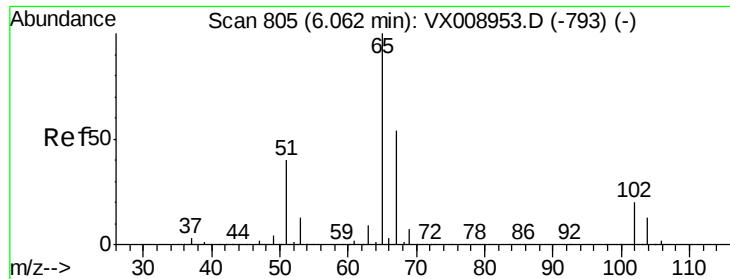


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 48.299 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

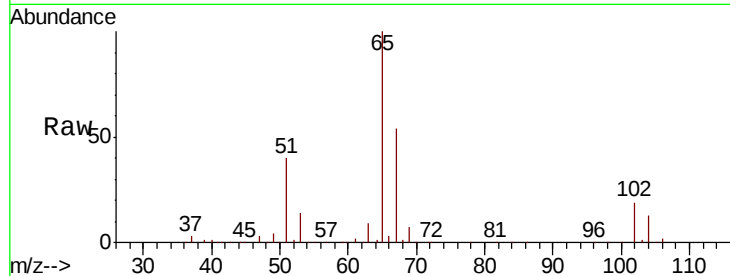
SS037MW304-190416

Tot Ion: 65 Resp: 160123

Ion Ratio Lower Upper

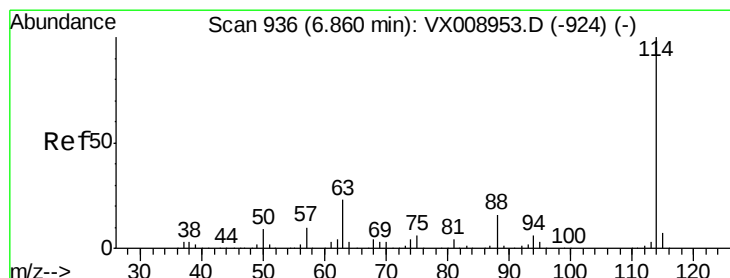
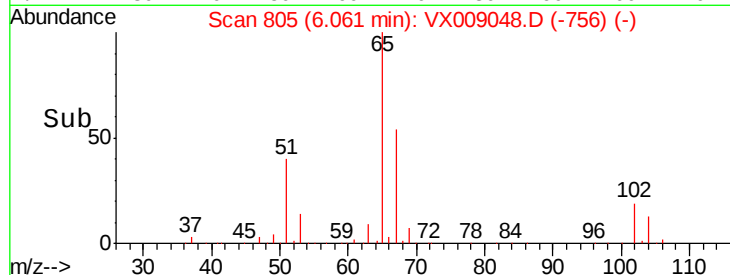
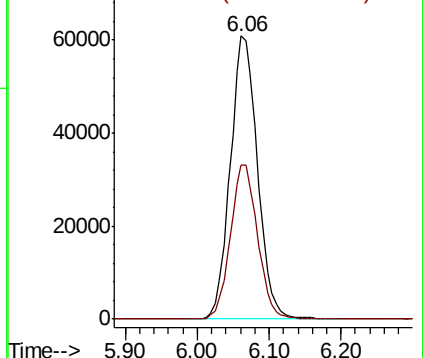
65 100

67 54.4 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: VX009048.D

Acq: 18 Apr 2019 16:55

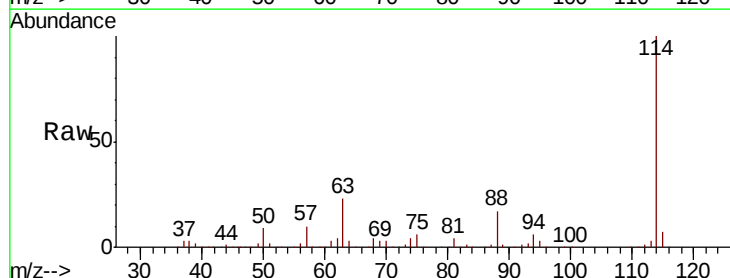
Tgt Ion: 114 Resp: 383949

Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.0

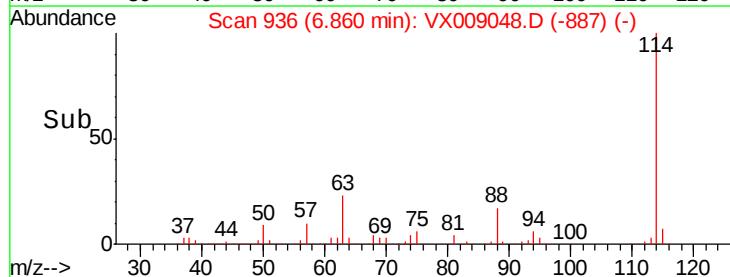
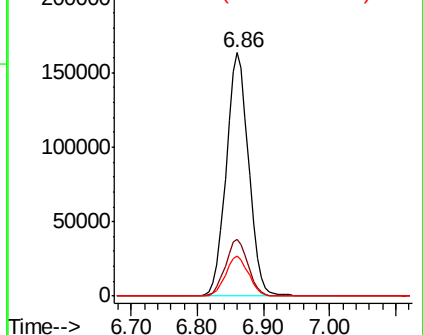
88 16.7 0.0 32.6

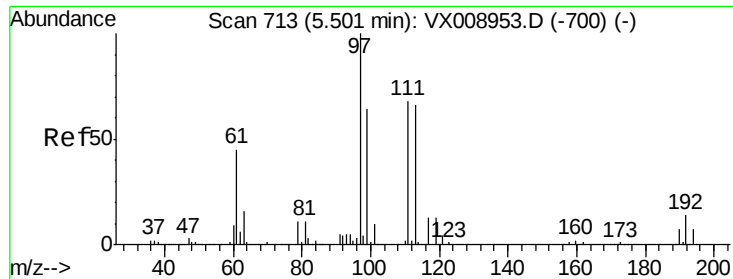


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

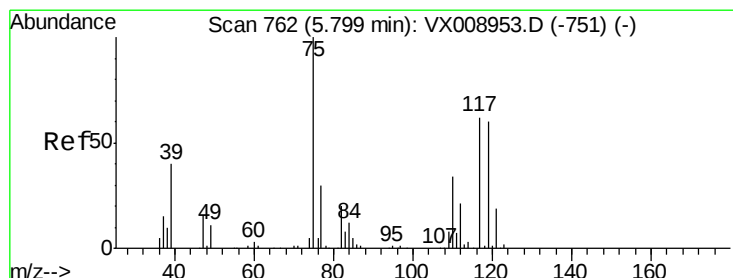
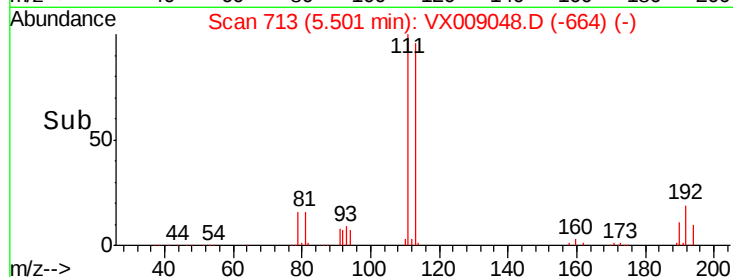
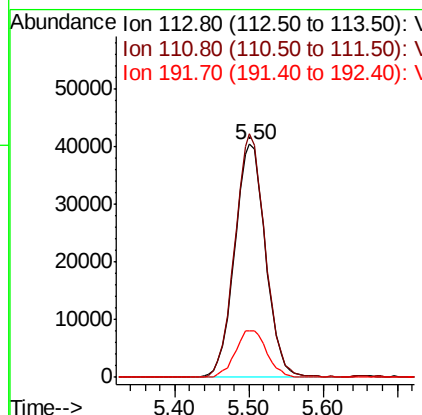
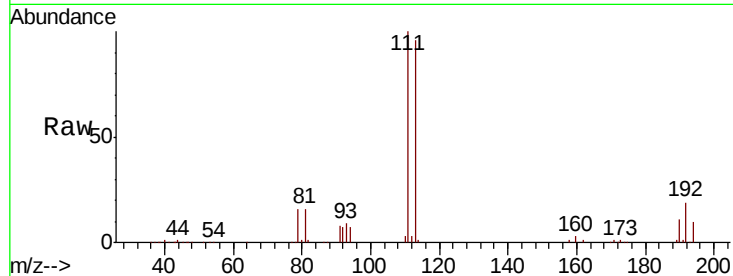




#35
 Dibromofluoromethane
 Concen: 47.693 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX009048.D
 Acq: 18 Apr 2019 16:55

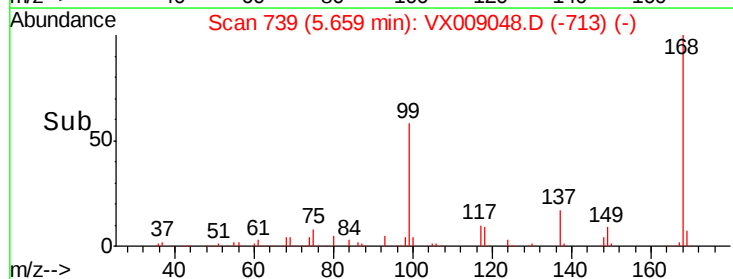
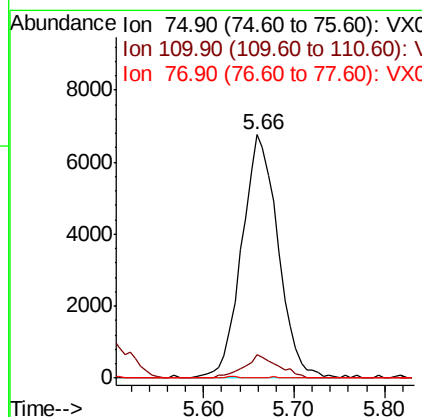
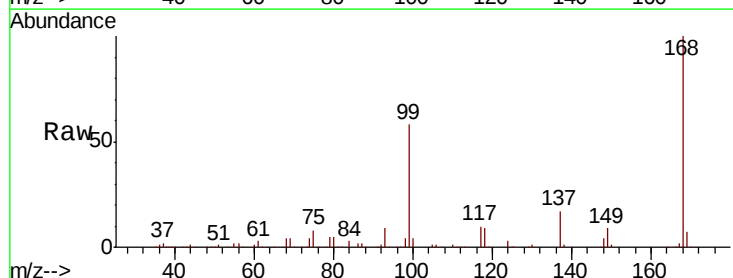
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW304-190416

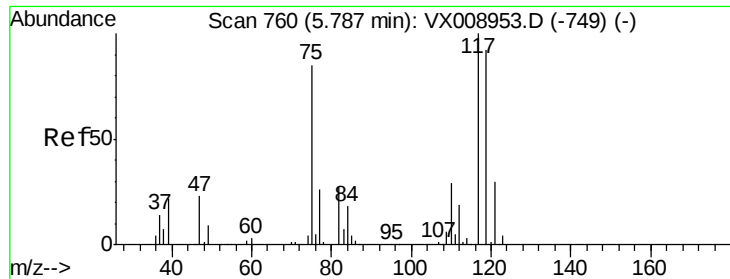
Tot Ion:113 Resp: 117520
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.9 124.3
 192 20.5 17.4 26.0



#36
 1,1-Dichloropropene
 Concen: 4.731 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009048.D
 Acq: 18 Apr 2019 16:55

Tgt Ion: 75 Resp: 18788
 Ion Ratio Lower Upper
 75 100
 110 9.1 16.9 50.7#
 77 0.1 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.784 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

SS037MW304-190416

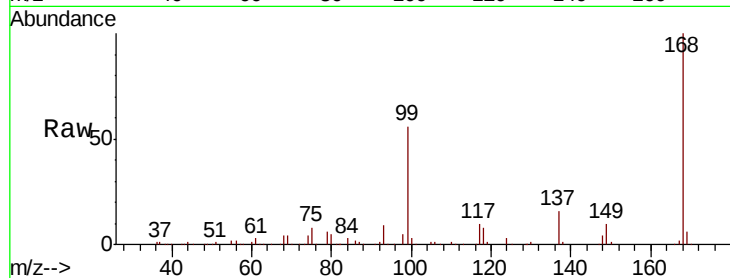
Tot Ion:117 Resp: 22838

Ion Ratio Lower Upper

117 100

119 5.1 73.8 110.8#

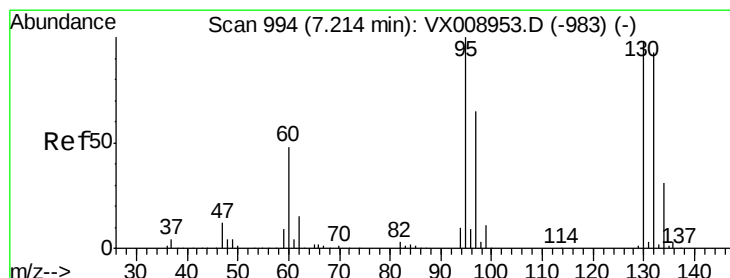
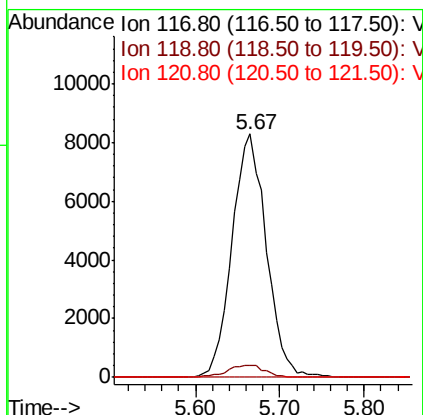
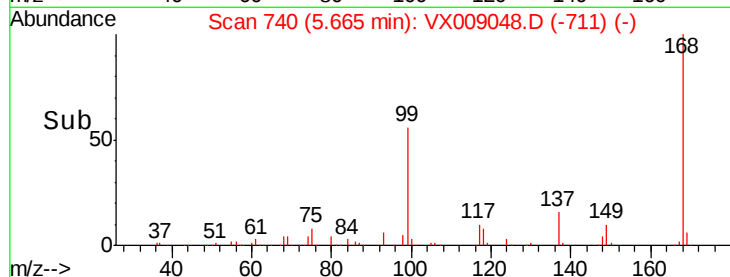
121 0.0 23.6 35.4#



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: 11.159 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX009048.D

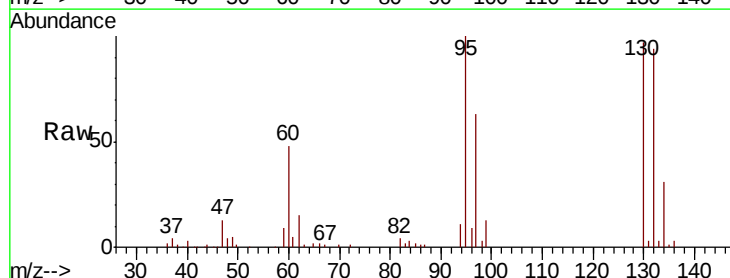
Acq: 18 Apr 2019 16:55

Tgt Ion:130 Resp: 32029

Ion Ratio Lower Upper

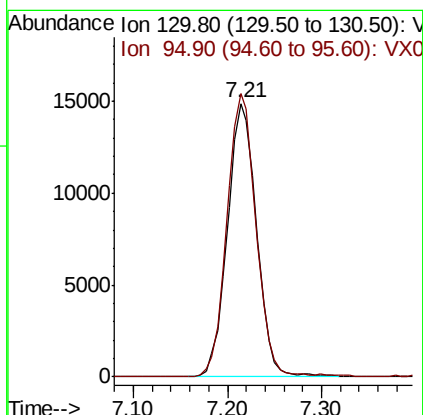
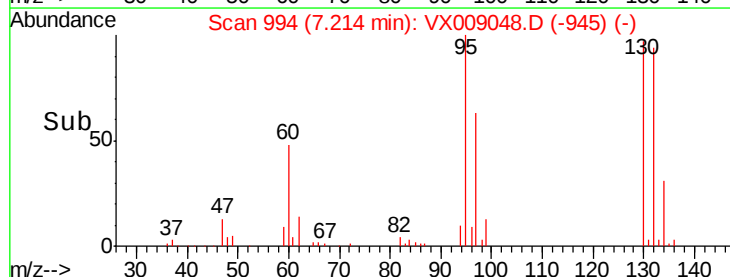
130 100

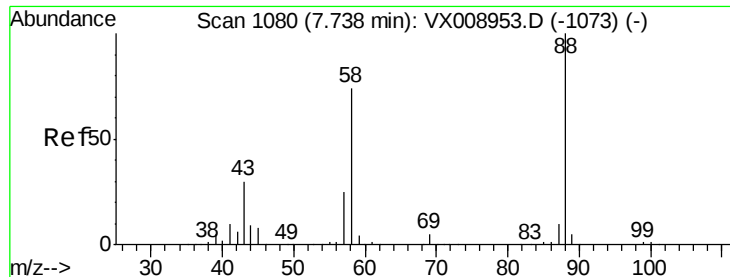
95 103.5 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

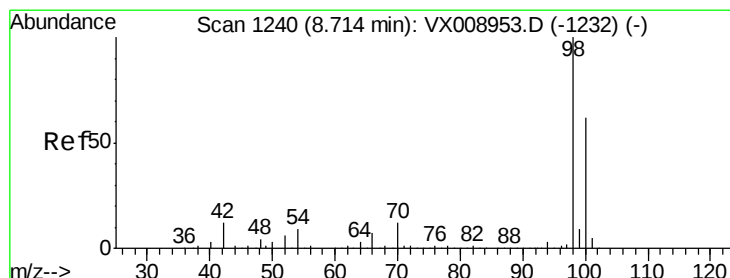
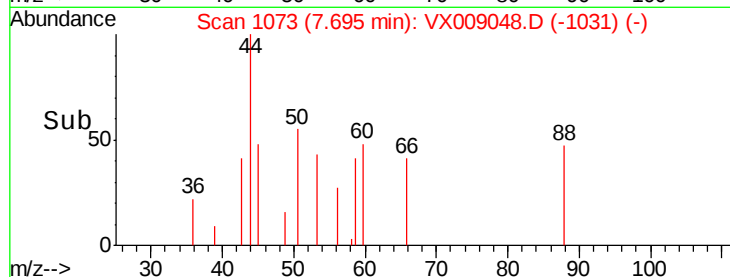
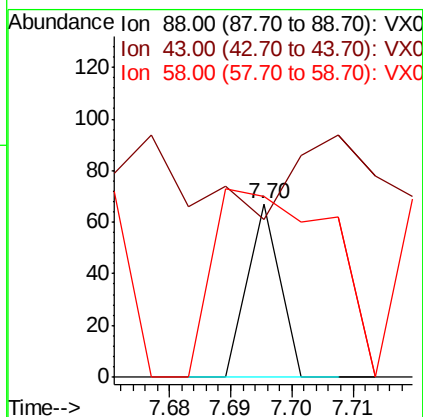
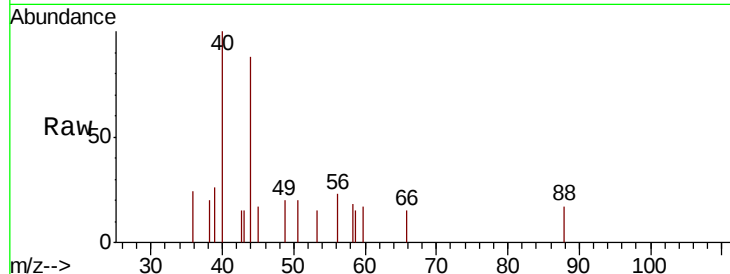




#49
1,4-Dioxane
Concen: 0.328 ug/l
RT: 7.70 min Scan# 1073
Delta R.T. -0.04 min
Lab File: VX009048.D
Acq: 18 Apr 2019 16:55

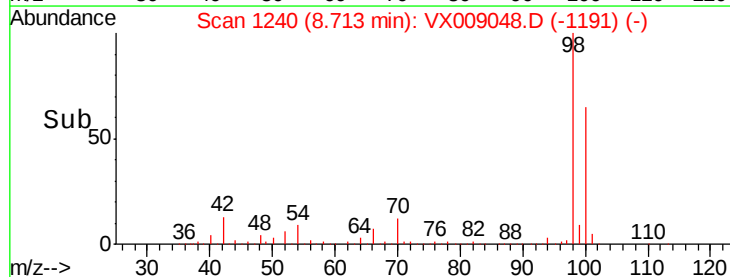
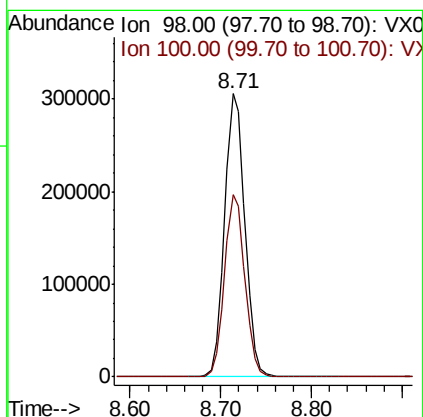
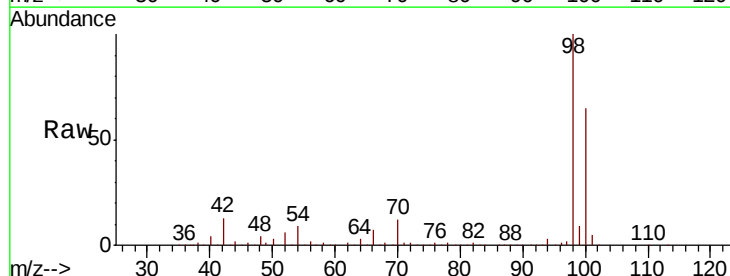
Instrument :
MSVOA_X
ClientSampleId :
SS037MW304-190416

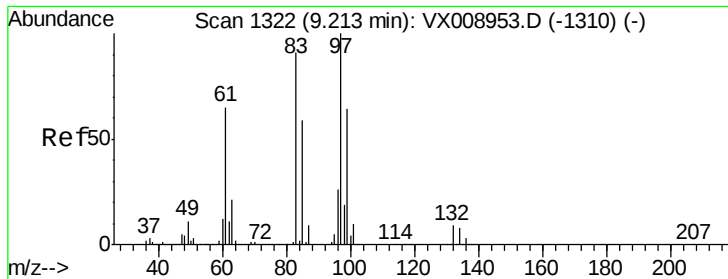
Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 572.0 29.3 43.9#
58 388.0 62.6 93.8#



#50
Toluene-d8
Concen: 48.338 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX009048.D
Acq: 18 Apr 2019 16:55

Tgt Ion: 98 Resp: 475012
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2

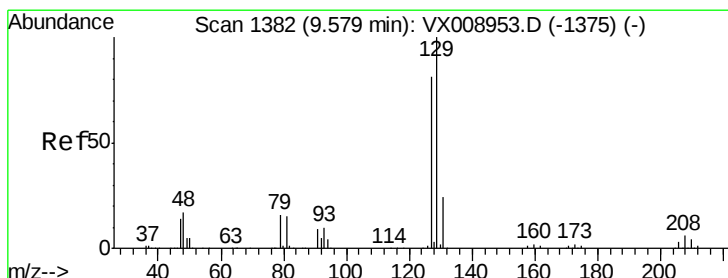
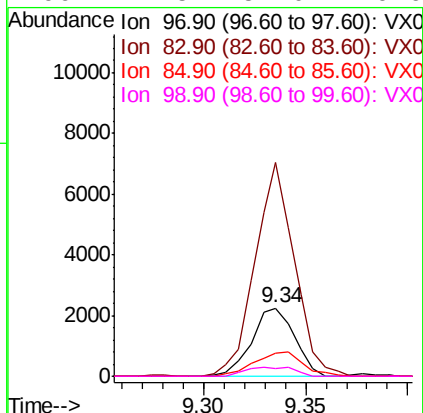
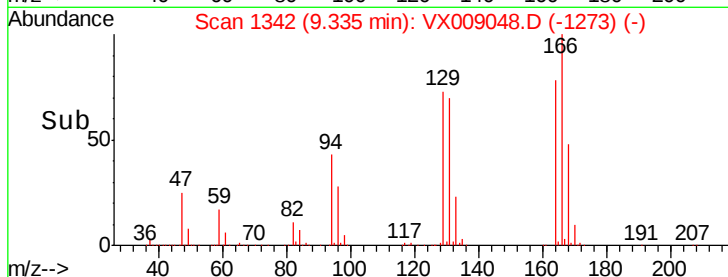
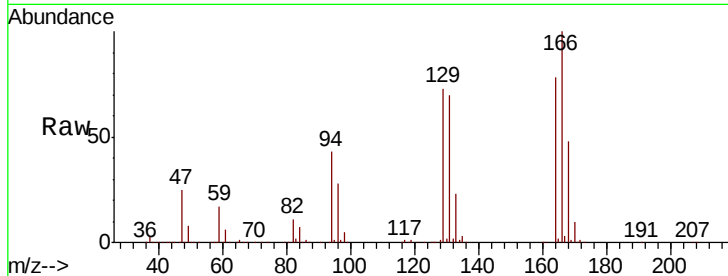




#55
 1,1,2-Trichloroethane
 Concen: 1.178 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. 0.12 min
 Lab File: VX009048.D
 Acq: 18 Apr 2019 16:55

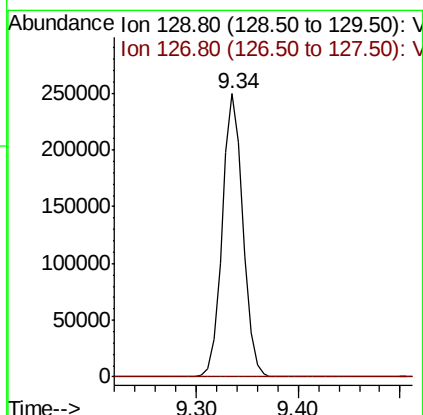
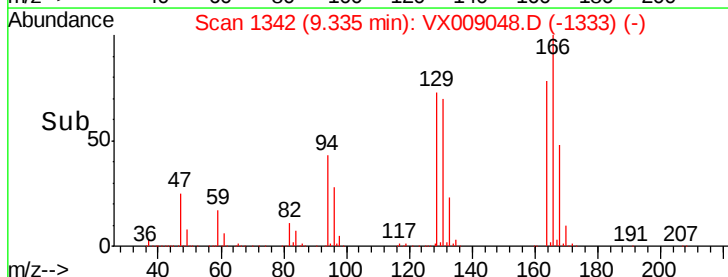
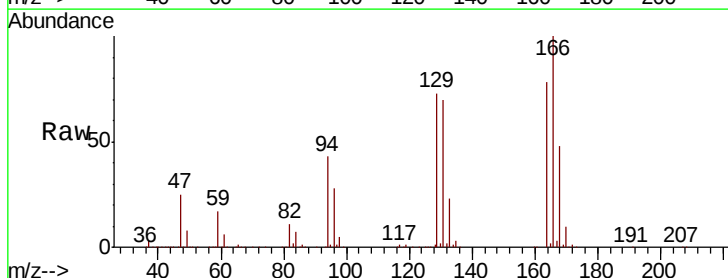
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW304-190416

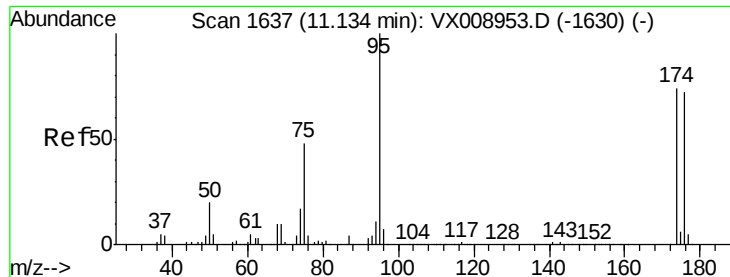
Tot Ion: 97 Resp: 3278
 Ion Ratio Lower Upper
 97 100
 83 314.0 72.6 108.8#
 85 34.2 46.9 70.3#
 99 11.5 51.0 76.6#



#60
 Dibromochloromethane
 Concen: 131.359 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX009048.D
 Acq: 18 Apr 2019 16:55

Tgt Ion: 129 Resp: 350301
 Ion Ratio Lower Upper
 129 100
 127 0.1 39.1 117.2#





#62

4-Bromofluorobenzene

Concen: 44.546 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

SS037MW304-190416

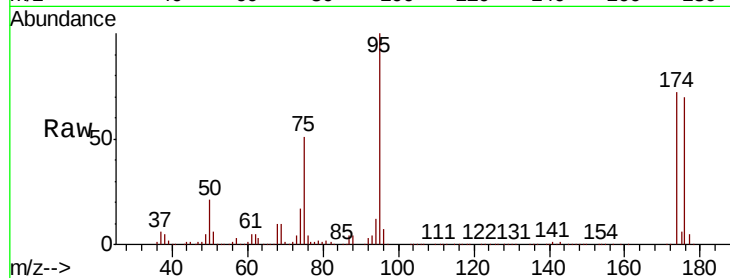
Tot Ion: 95 Resp: 154527

Ion Ratio Lower Upper

95 100

174 79.0 0.0 159.6

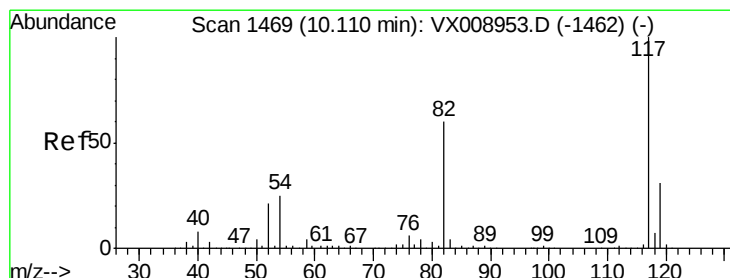
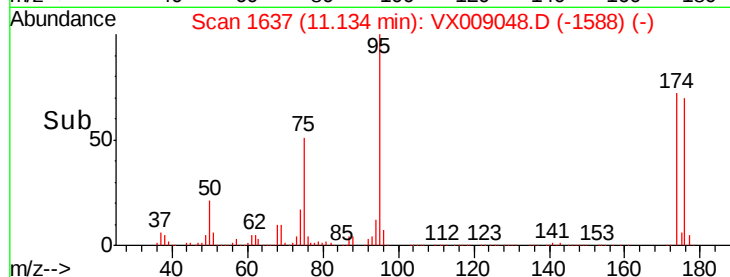
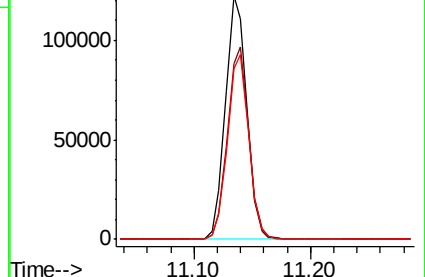
176 76.2 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

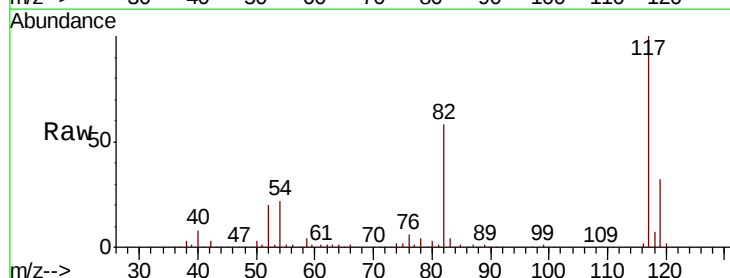
Tgt Ion: 117 Resp: 327123

Ion Ratio Lower Upper

117 100

82 57.8 48.2 72.4

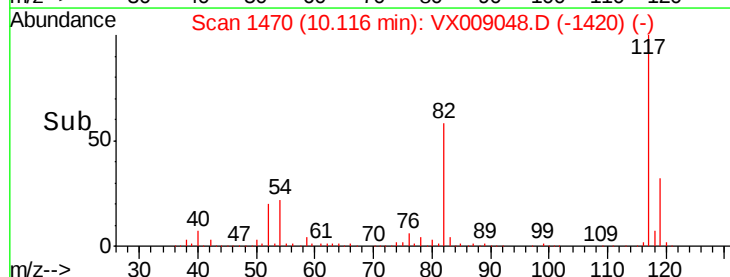
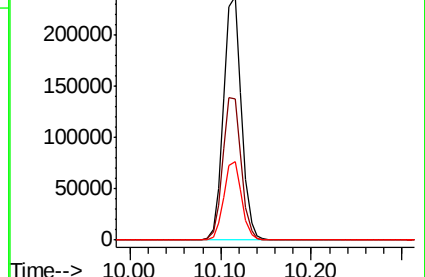
119 32.4 25.0 37.6

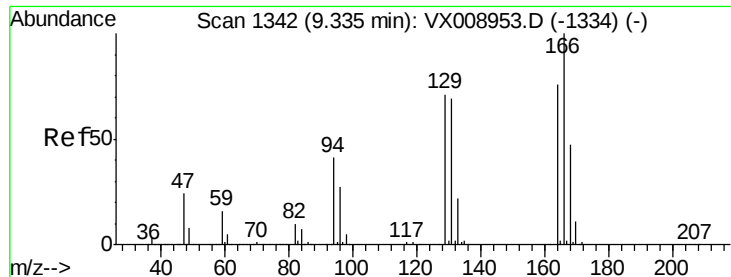


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)





#64

Tetrachloroethene

Concen: 149.382 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

SS037MW304-190416

Tot Ion:164 Resp: 371228

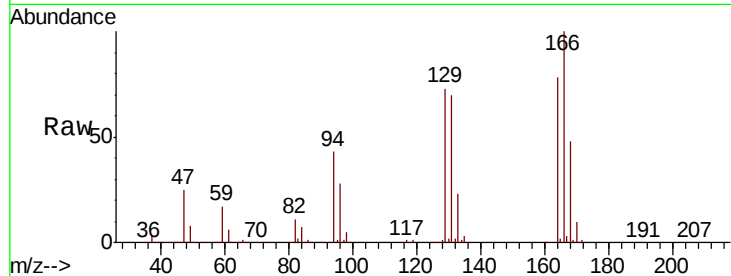
Ion Ratio Lower Upper

164 100

166 128.9 105.0 157.4

129 93.5 74.2 111.4

131 90.7 72.2 108.2

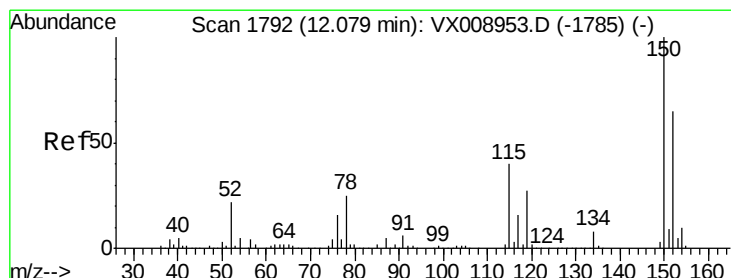
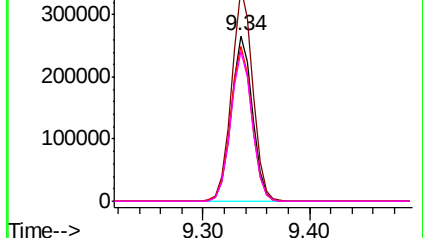
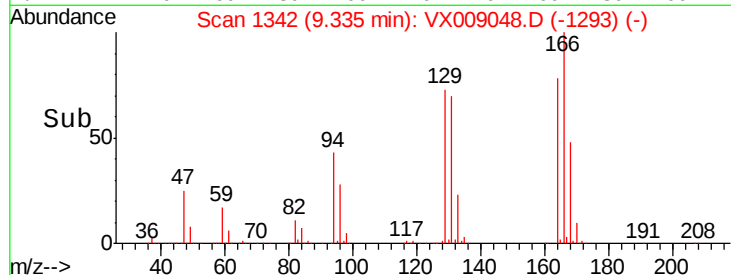


Abundance Ion 163.80 (163.50 to 164.50): V

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: VX009048.D

Acq: 18 Apr 2019 16:55

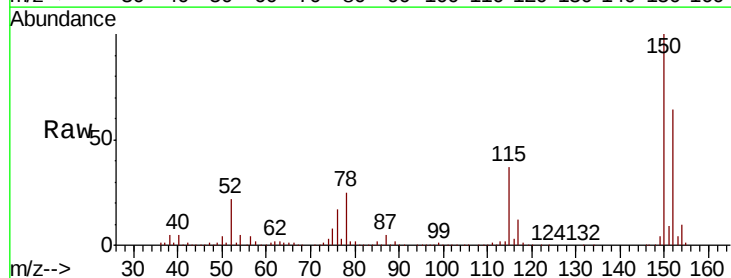
Tgt Ion:152 Resp: 137775

Ion Ratio Lower Upper

152 100

115 59.5 41.4 124.2

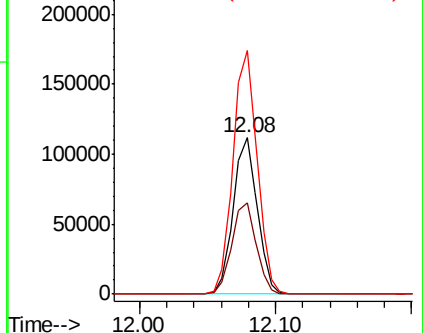
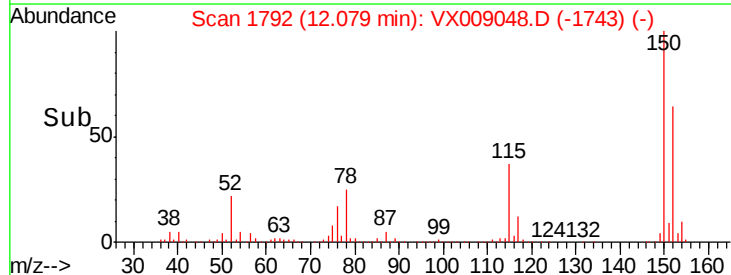
150 156.5 0.0 349.8

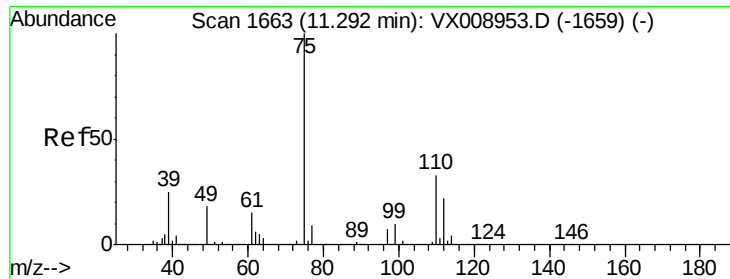


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.382 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

Instrument :

MSVOA_X

ClientSampleId :

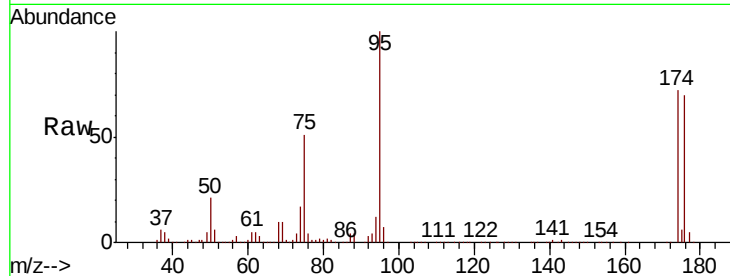
SS037MW304-190416

Tot Ion: 75 Resp: 78661

Ion Ratio Lower Upper

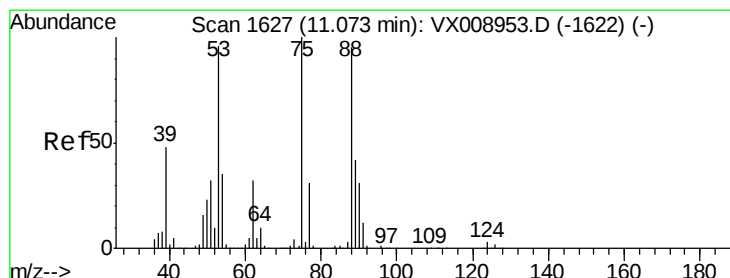
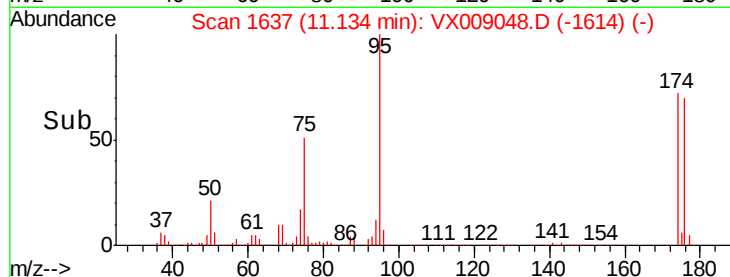
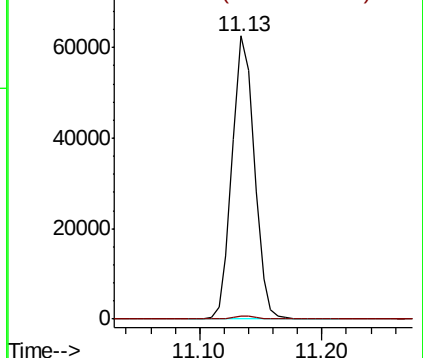
75 100

77 1.2 22.7 68.0#



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: 60.028 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009048.D

Acq: 18 Apr 2019 16:55

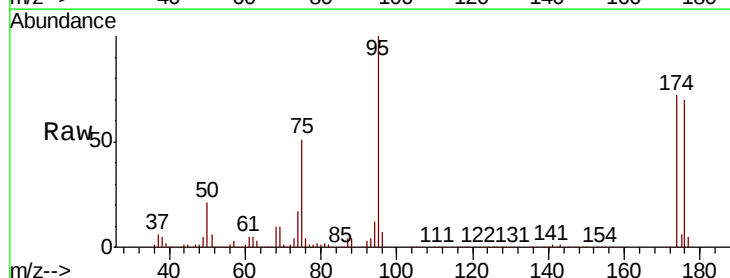
Tgt Ion: 75 Resp: 78661

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 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

