

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX042419\
 Data File : VX009148.D
 Acq On : 24 Apr 2019 18:02
 Operator : JC/SP
 Sample : K2555-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 HW-7MSD

Quant Time: Apr 25 05:23:11 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	5.66	168	229626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	373379	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	320752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135433	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	155326	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
35) Dibromofluoromethane	5.50	113	115009	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
50) Toluene-d8	8.71	98	459470	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
62) 4-Bromofluorobenzene	11.13	95	151403	44.88	ug/l	0.00
Spiked Amount			Recovery	=	89.76%	

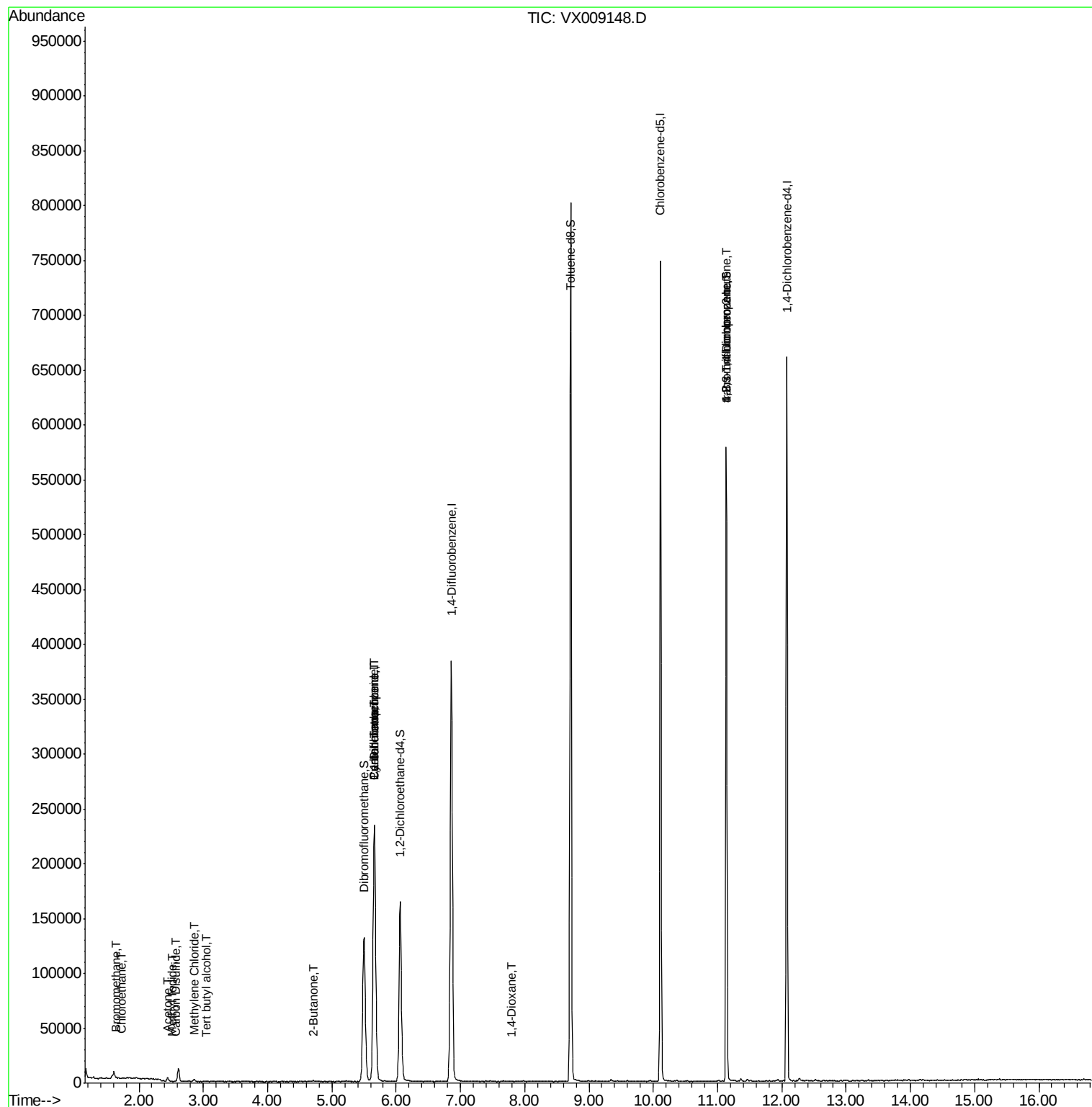
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	539	4.100	ug/l	98
6) Chloroethane	1.73	64	412	0.222	ug/l #	44
10) Methyl Iodide	2.51	142	196	4.484	ug/l #	42
11) Tert butyl alcohol	3.05	59	410	0.571	ug/l #	66
16) Acetone	2.45	43	3944	2.350	ug/l	91
17) Carbon Disulfide	2.57	76	945	1.380	ug/l #	67
20) Methylene Chloride	2.86	84	887	0.309	ug/l #	94
25) 2-Butanone	4.70	43	1240	0.462	ug/l	91
28) Bromochloromethane	5.01	49	106	Below Cal	#	21
31) Cyclohexane	5.67	56	5250	1.019	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18105	4.689	ug/l #	50
38) Carbon Tetrachloride	5.66	117	21820	6.665	ug/l #	18
49) 1,4-Dioxane	7.79	88	61	0.824	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	76715	23.198	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	76715	59.555	ug/l #	11

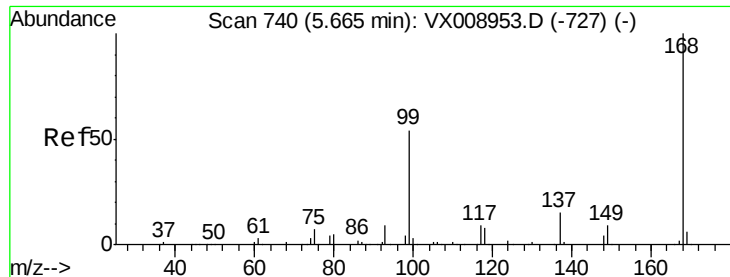
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

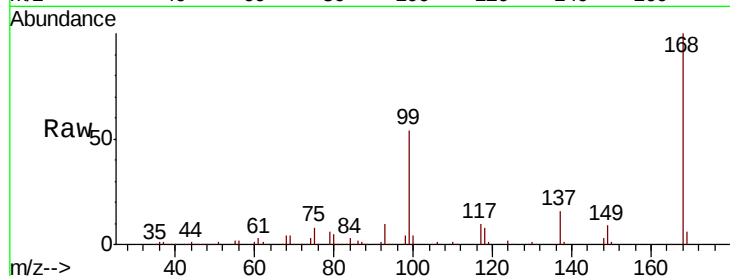
HW-7MSD

Tgt Ion:168 Resp: 229626

Ion Ratio Lower Upper

168 100

99 54.4 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

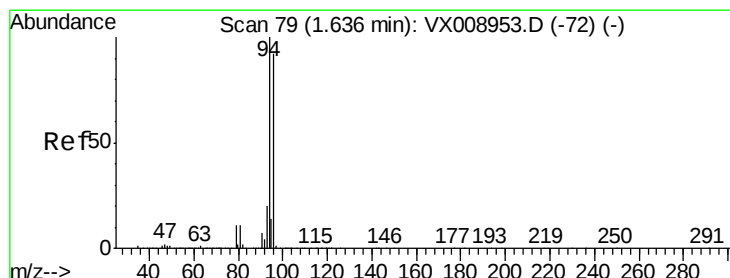
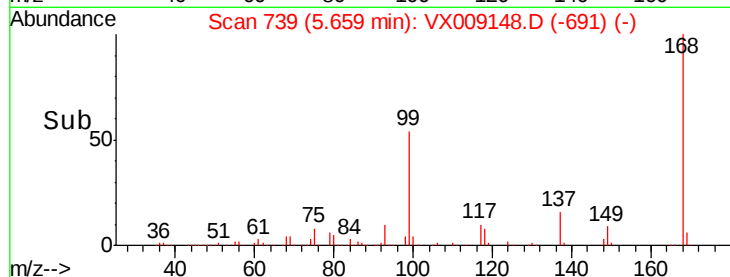
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.100 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX009148.D

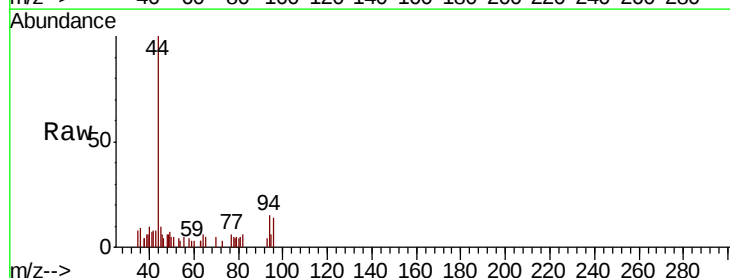
Acq: 24 Apr 2019 18:02

Tgt Ion: 94 Resp: 539

Ion Ratio Lower Upper

94 100

96 94.0 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

250

200

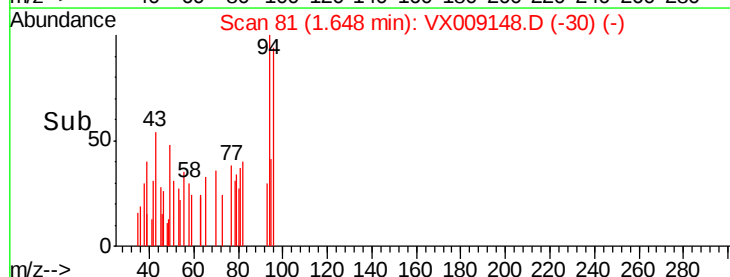
150

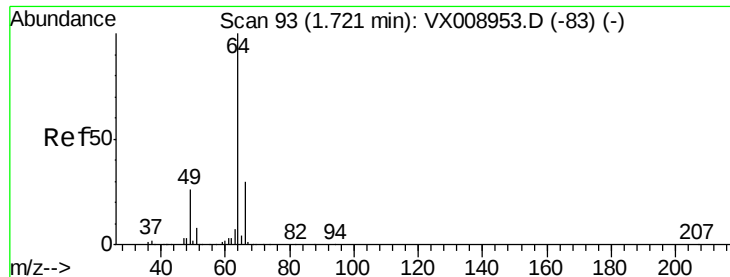
100

50

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.222 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

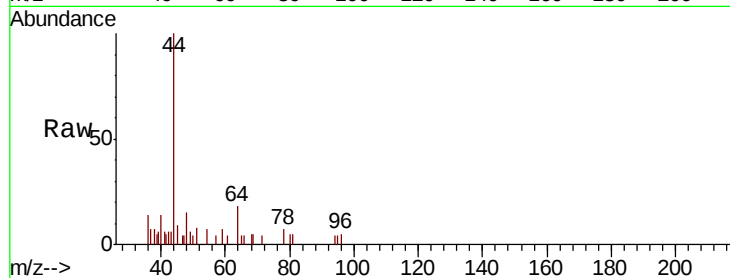
HW-7MSD

Tgt Ion: 64 Resp: 412

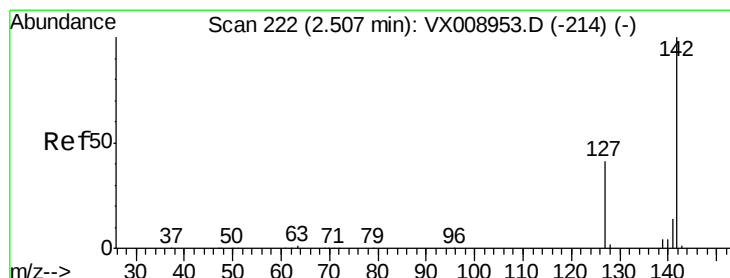
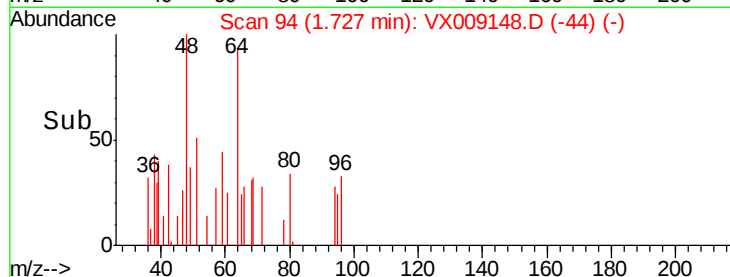
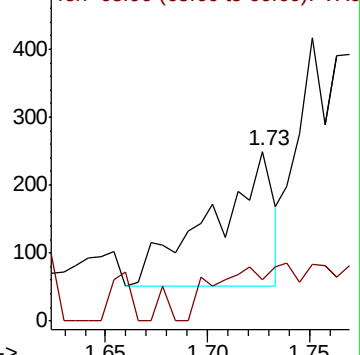
Ion Ratio Lower Upper

64 100

66 0.0 24.2 36.2#



Abundance Ion 63.90 (63.60 to 64.60): VX008953.D (-83) (-)



#10

Methyl Iodide

Concen: 4.484 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

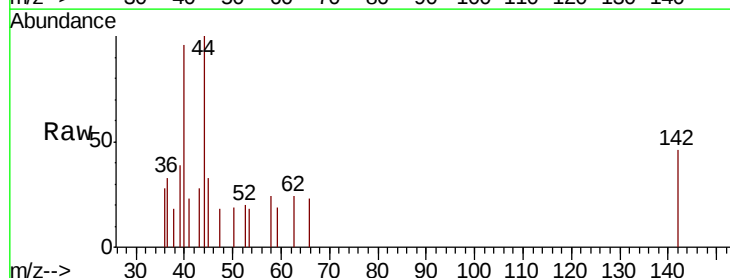
Tgt Ion: 142 Resp: 196

Ion Ratio Lower Upper

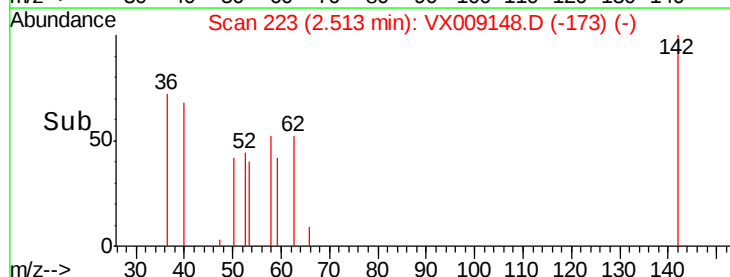
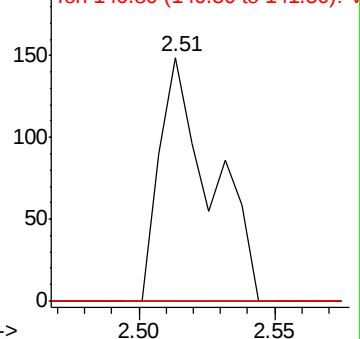
142 100

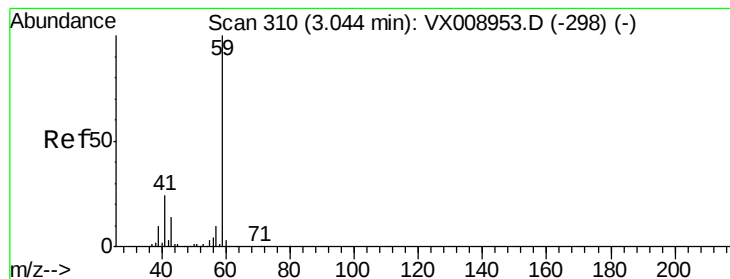
127 0.0 32.8 49.2#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): VX008953.D (-214) (-)





#11

Tert butyl alcohol

Concen: 0.571 ug/l

RT: 3.05 min Scan# 311

Delta R.T. 0.01 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

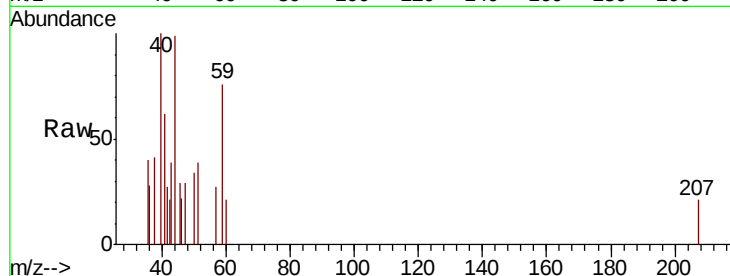
HW-7MSD

Tgt Ion: 59 Resp: 410

Ion Ratio Lower Upper

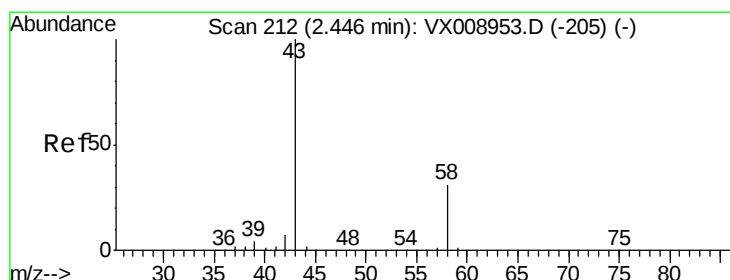
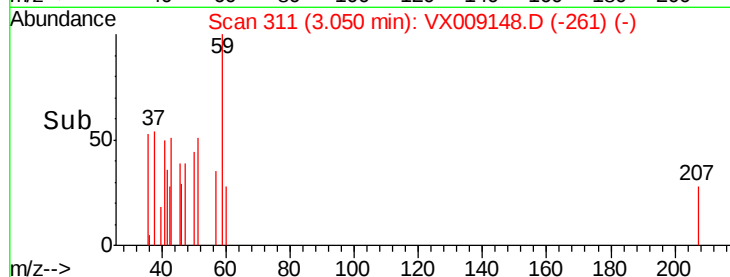
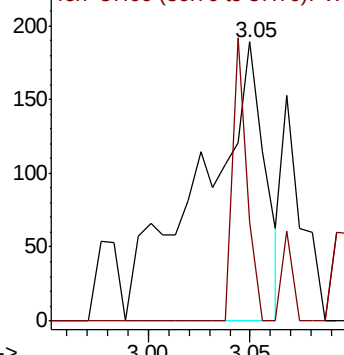
59 100

57 23.2 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#16

Acetone

Concen: 2.350 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009148.D

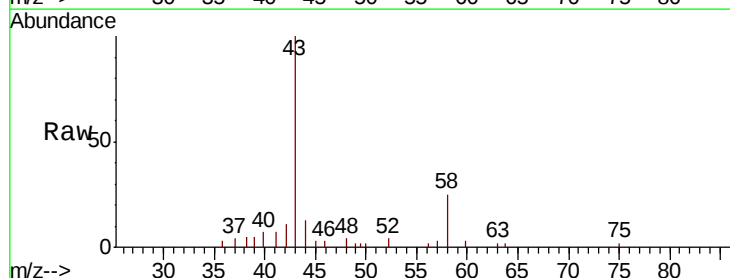
Acq: 24 Apr 2019 18:02

Tgt Ion: 43 Resp: 3944

Ion Ratio Lower Upper

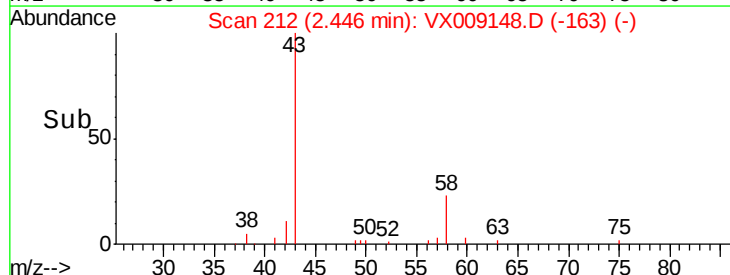
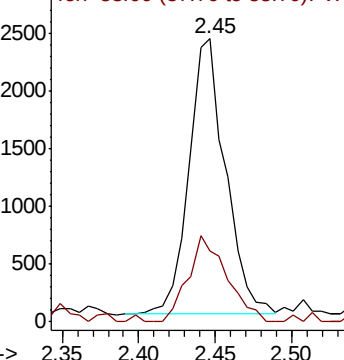
43 100

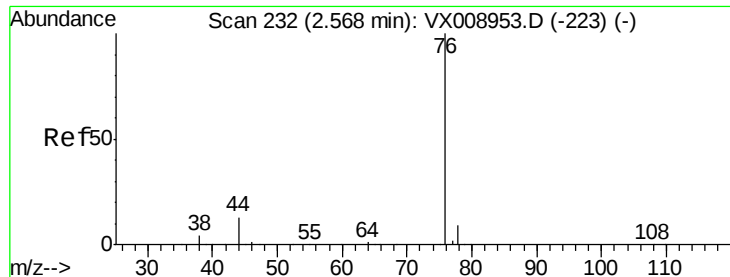
58 25.8 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.380 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

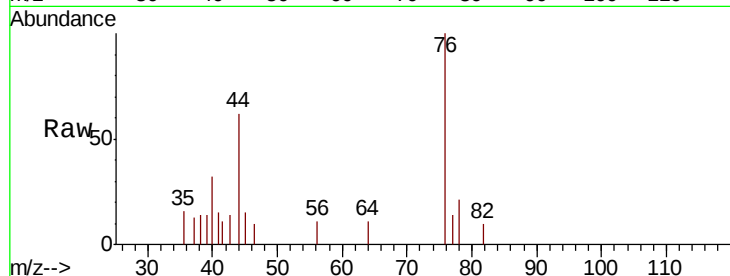
HW-7MSD

Tgt Ion: 76 Resp: 945

Ion Ratio Lower Upper

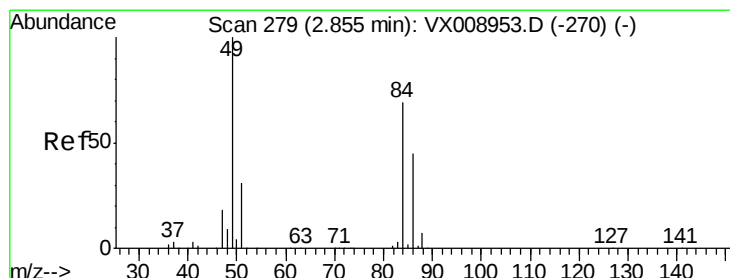
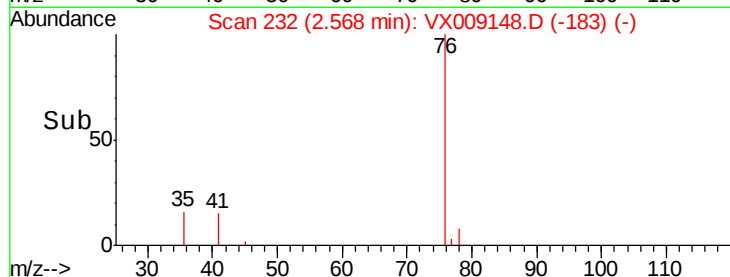
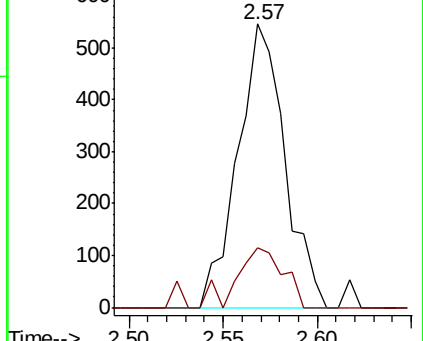
76 100

78 20.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.309 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Tgt Ion: 84 Resp: 887

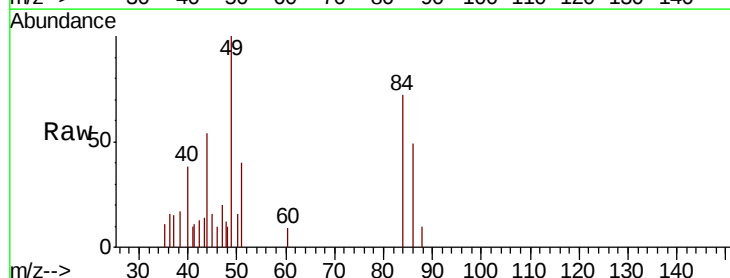
Ion Ratio Lower Upper

84 100

49 139.7 115.4 173.0

51 55.9 35.8 53.6#

86 67.8 52.1 78.1

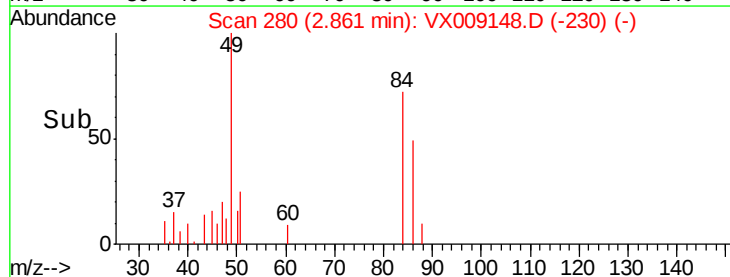
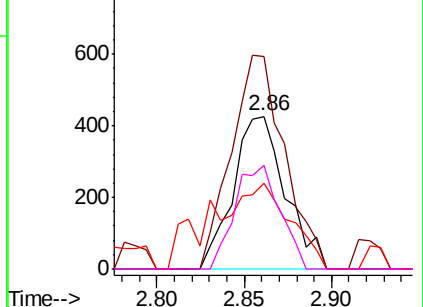


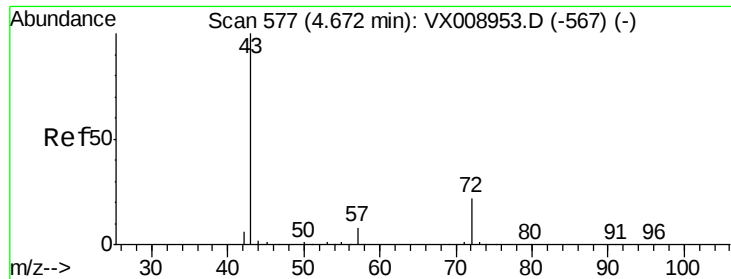
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: 0.462 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.03 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

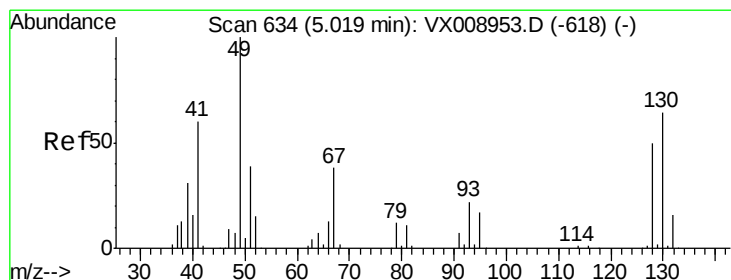
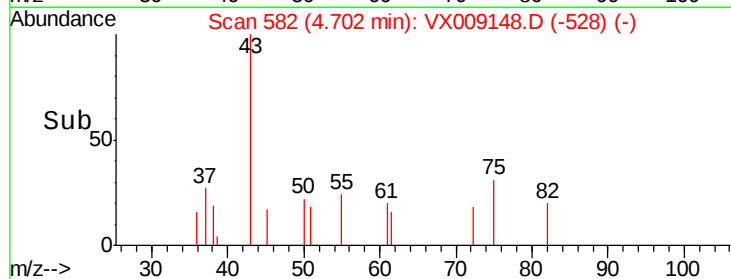
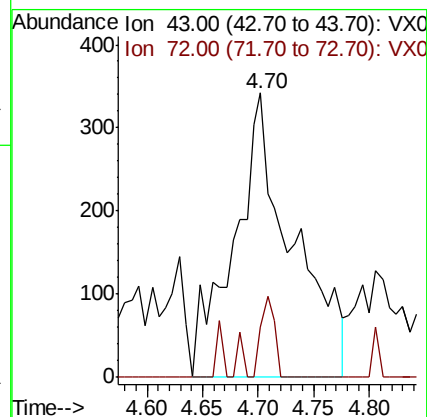
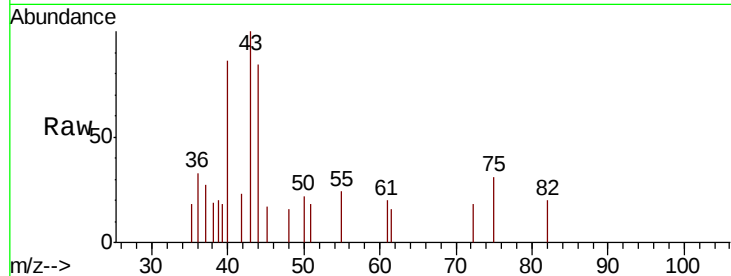
HW-7MSD

Tgt Ion: 43 Resp: 1240

Ion Ratio Lower Upper

43 100

72 17.5 17.5 26.3



#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 633

Delta R.T. -0.01 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

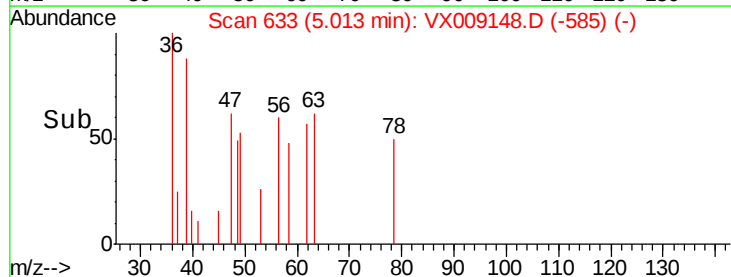
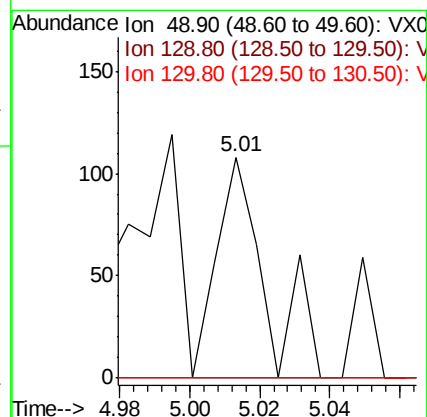
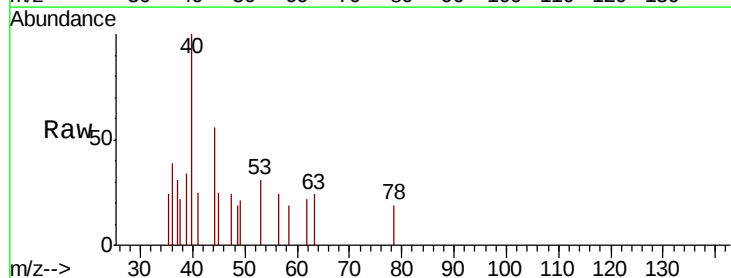
Tgt Ion: 49 Resp: 106

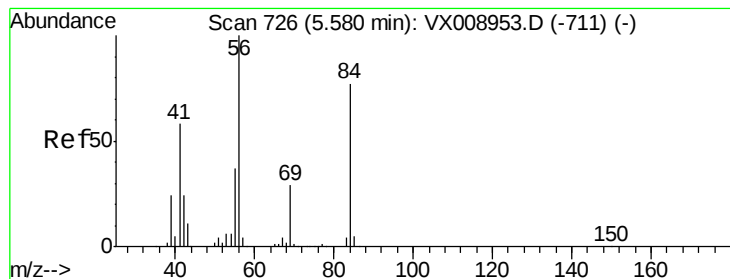
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

130 0.0 50.4 75.6#





#31

Cyclohexane

Concen: 1.019 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

HW-7MSD

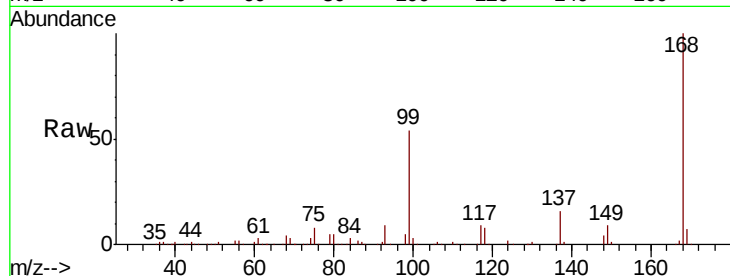
Tgt Ion: 56 Resp: 5250

Ion Ratio Lower Upper

56 100

69 150.3 23.3 34.9#

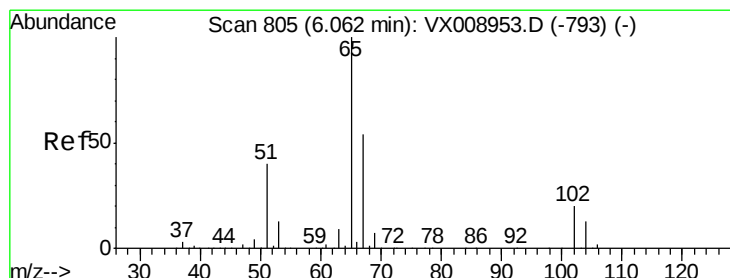
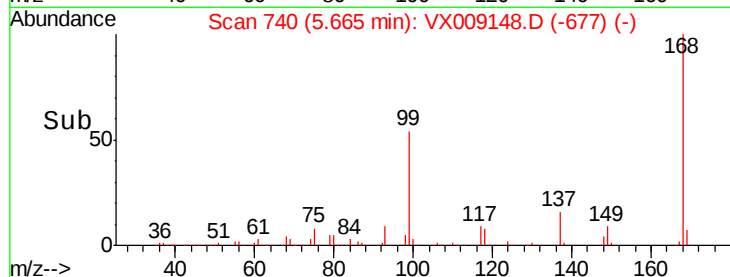
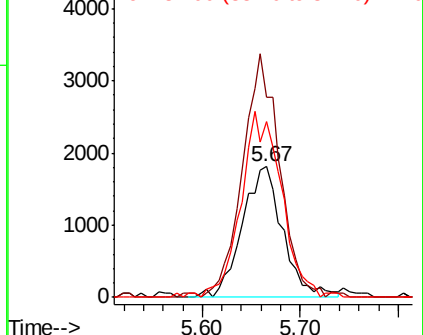
84 131.7 61.7 92.5#



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: 47.998 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009148.D

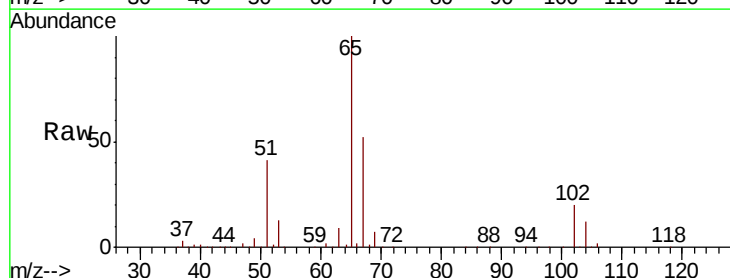
Acq: 24 Apr 2019 18:02

Tgt Ion: 65 Resp: 155326

Ion Ratio Lower Upper

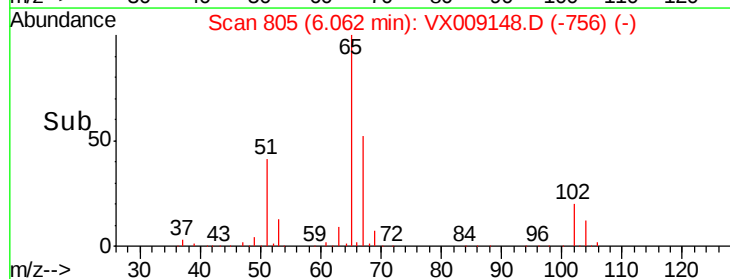
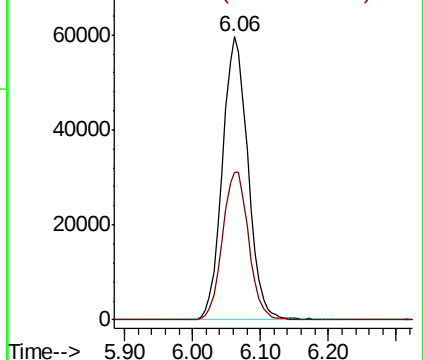
65 100

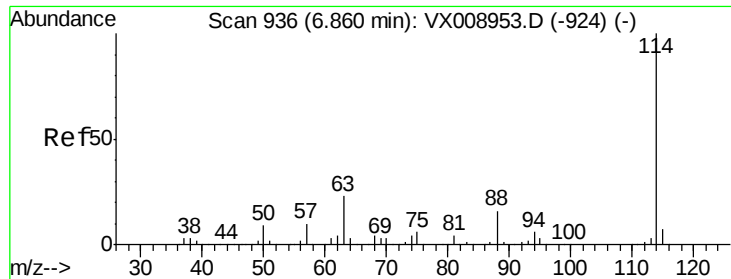
67 53.5 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

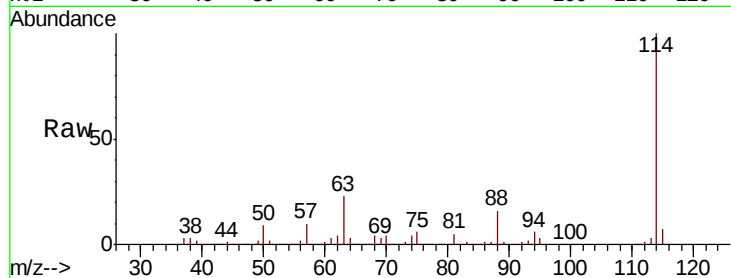




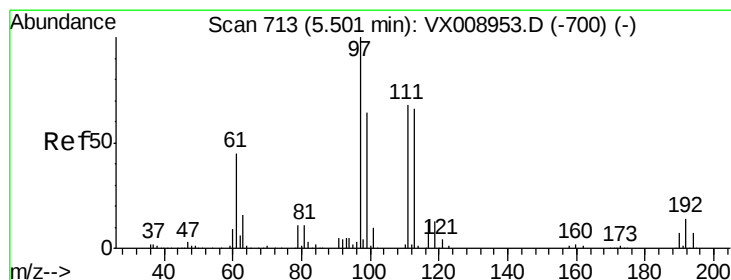
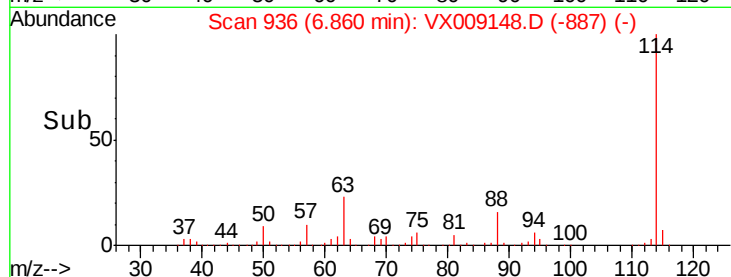
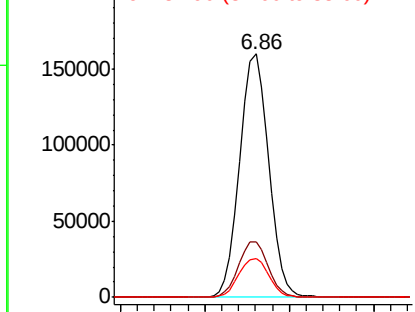
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009148.D
 Acq: 24 Apr 2019 18:02

Instrument :
 MSVOA_X
 ClientSampleId :
 HW-7MSD

Tgt Ion:114 Resp: 373379
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 46.0
 88 16.1 0.0 32.6

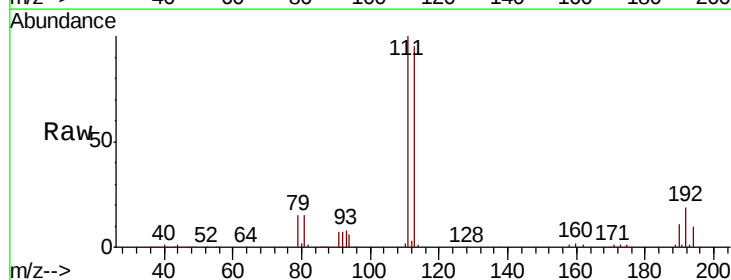


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

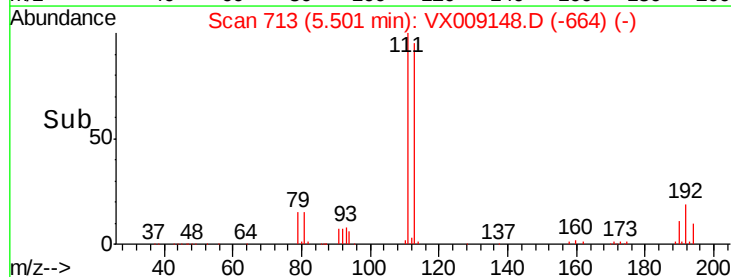
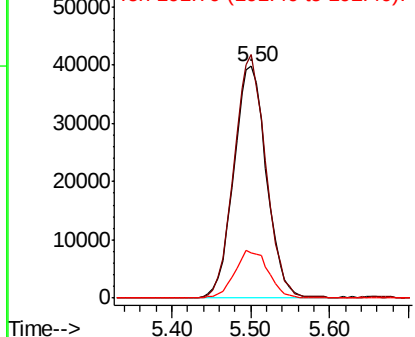


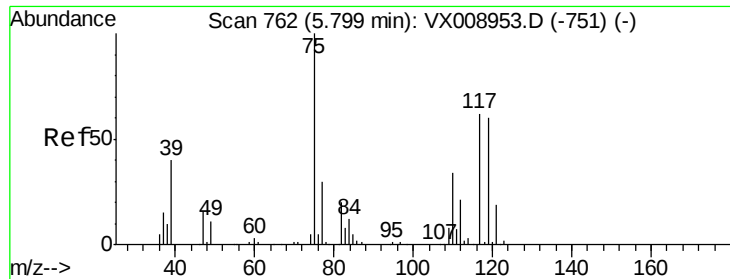
#35
 Dibromofluoromethane
 Concen: 47.995 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX009148.D
 Acq: 24 Apr 2019 18:02

Tgt Ion:113 Resp: 115009
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 21.1 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

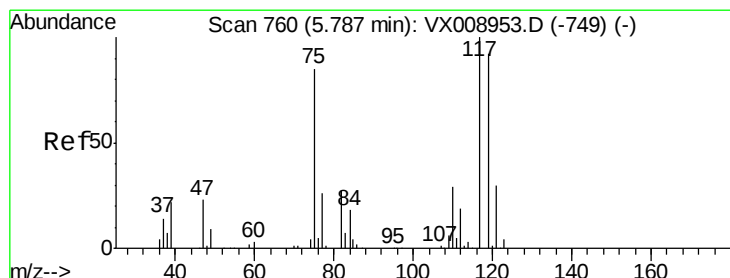
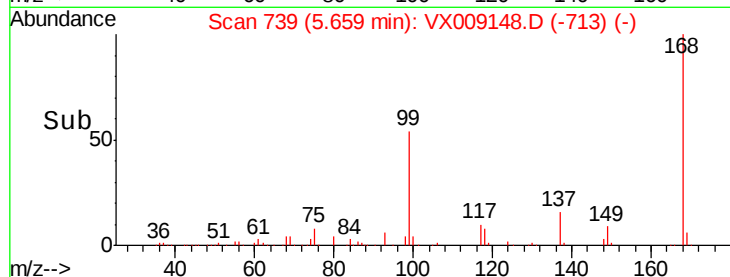
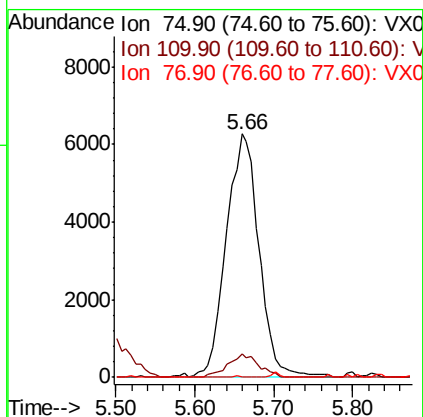
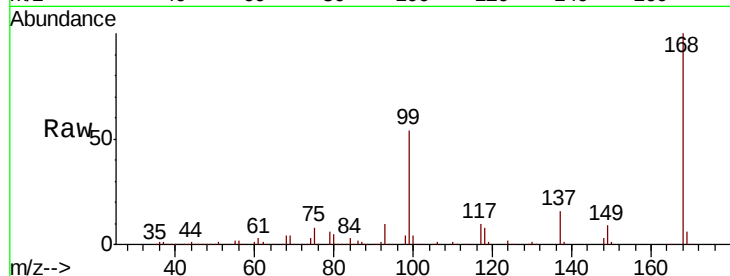




#36
 1,1-Dichloropropene
 Concen: 4.689 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009148.D
 Acq: 24 Apr 2019 18:02

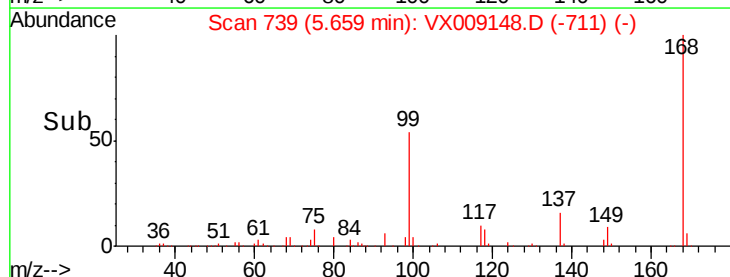
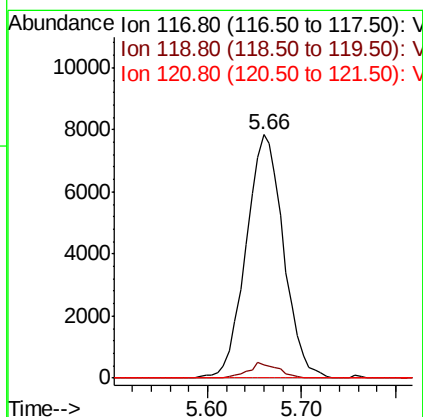
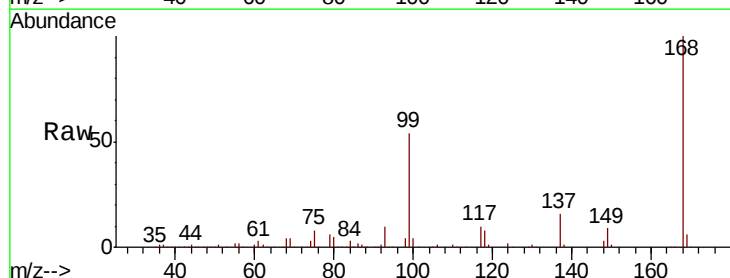
Instrument :
 MSVOA_X
 ClientSampleId :
 HW-7MSD

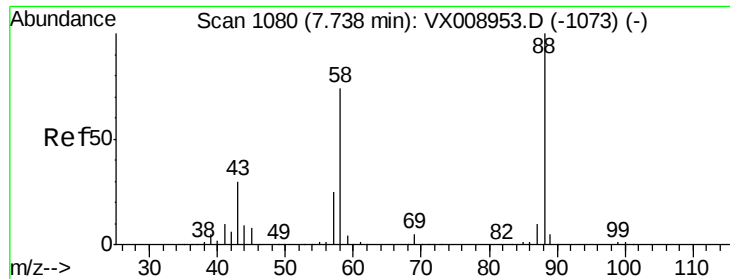
Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	16.9	50.7#
77	0.1	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.665 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX009148.D
 Acq: 24 Apr 2019 18:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	73.8	110.8#
121	0.0	23.6	35.4#

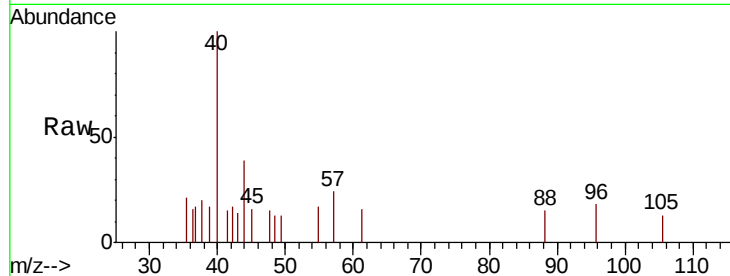




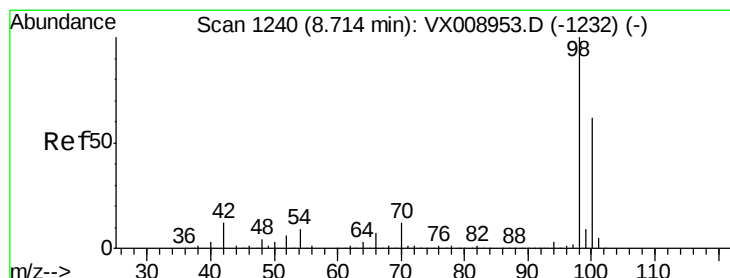
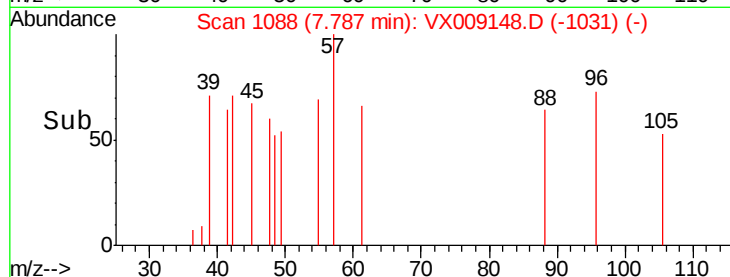
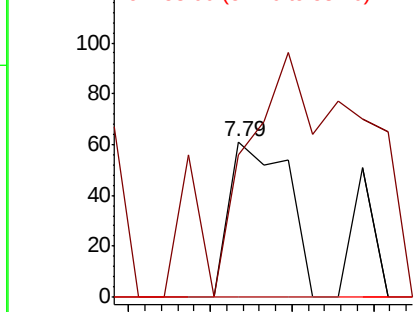
#49
1,4-Dioxane
Concen: 0.824 ug/l
RT: 7.79 min Scan# 1088
Delta R.T. 0.05 min
Lab File: VX009148.D
Acq: 24 Apr 2019 18:02

Instrument :
MSVOA_X
ClientSampleId :
HW-7MSD

Tgt Ion: 88 Resp: 61
Ion Ratio Lower Upper
88 100
43 331.1 29.3 43.9#
58 0.0 62.6 93.8#

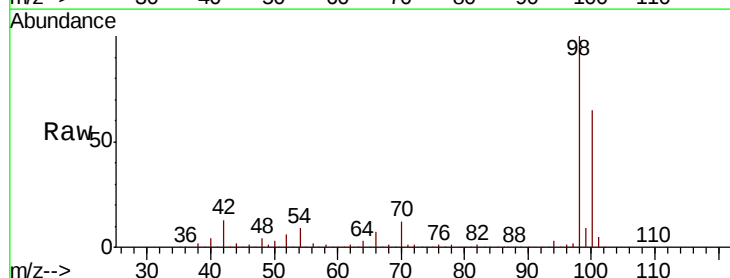


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

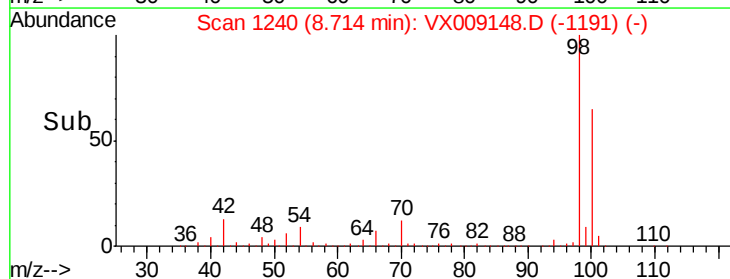
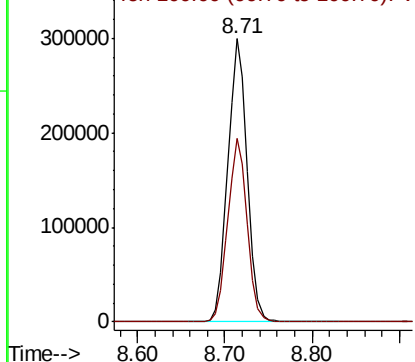


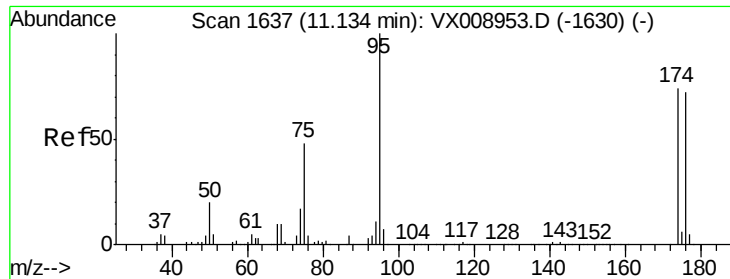
#50
Toluene-d8
Concen: 48.080 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX009148.D
Acq: 24 Apr 2019 18:02

Tgt Ion: 98 Resp: 459470
Ion Ratio Lower Upper
98 100
100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 44.881 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

HW-7MSD

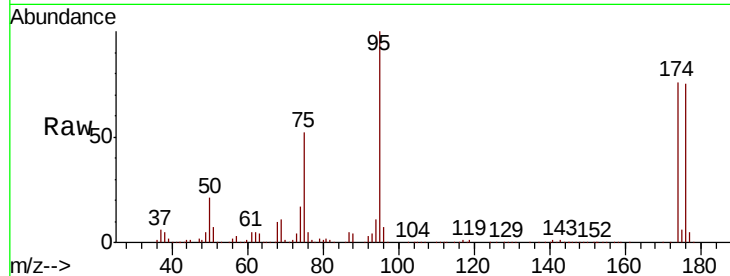
Tgt Ion: 95 Resp: 151403

Ion Ratio Lower Upper

95 100

174 79.6 0.0 159.6

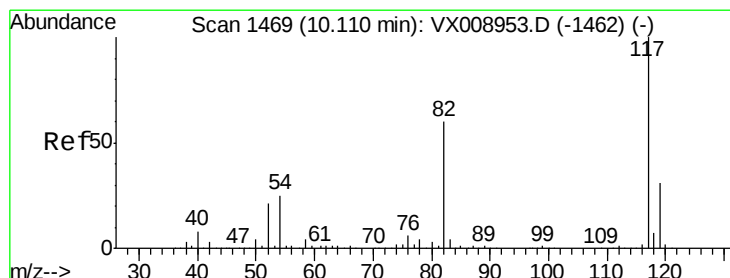
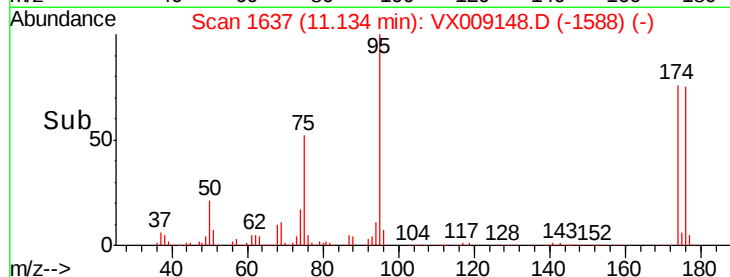
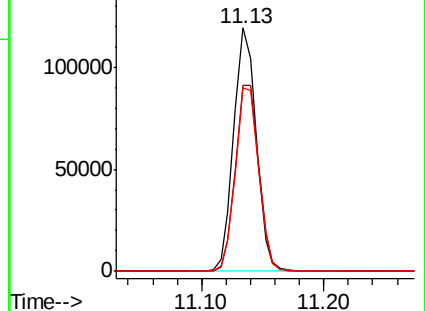
176 77.6 0.0 154.8



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

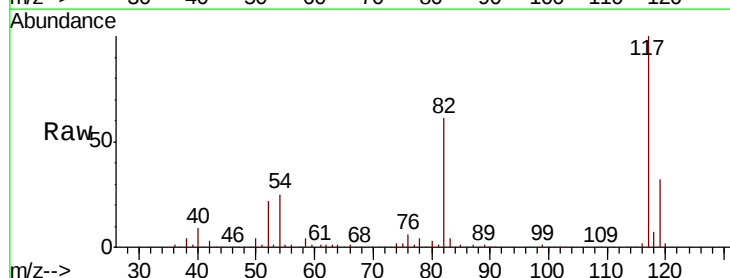
Tgt Ion: 117 Resp: 320752

Ion Ratio Lower Upper

117 100

82 60.6 48.2 72.4

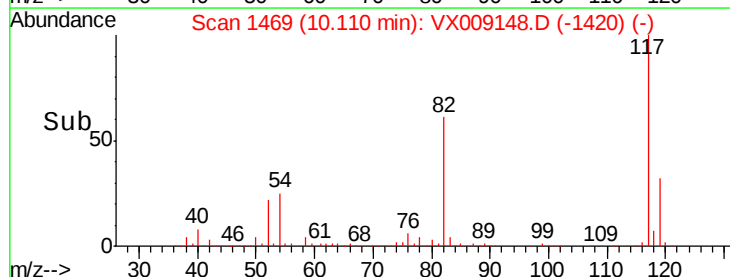
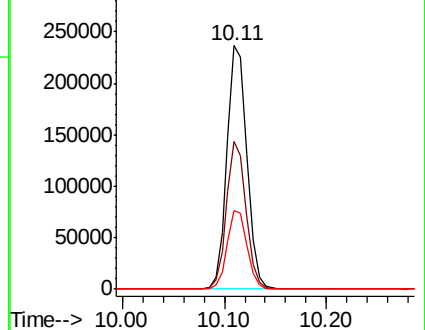
119 32.1 25.0 37.6

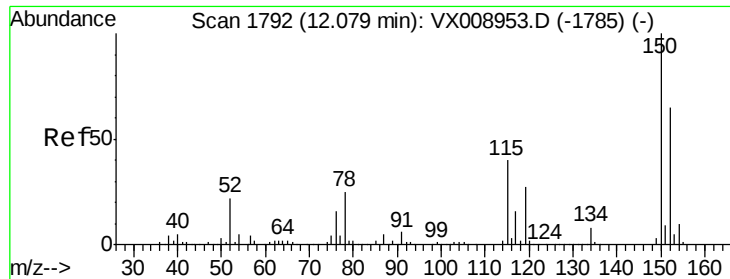


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

HW-7MSD

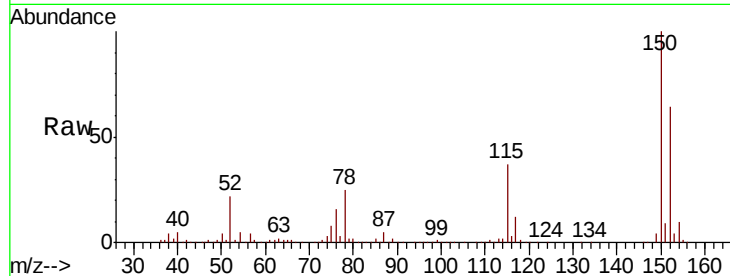
Tgt Ion:152 Resp: 135433

Ion Ratio Lower Upper

152 100

115 59.0 41.4 124.2

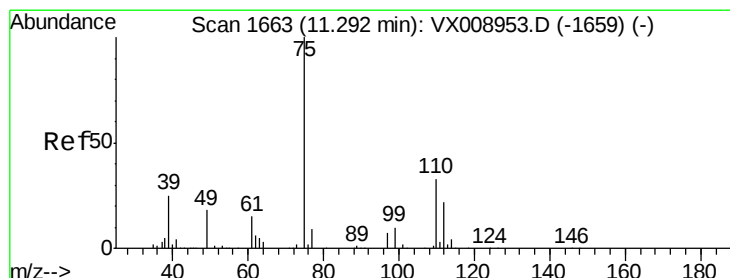
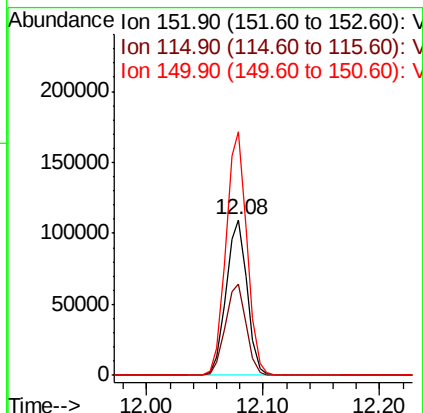
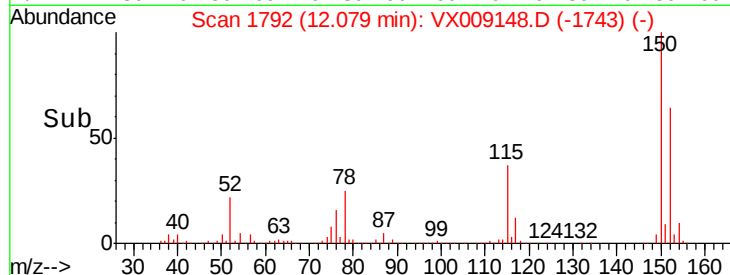
150 157.2 0.0 349.8



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: 23.198 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009148.D

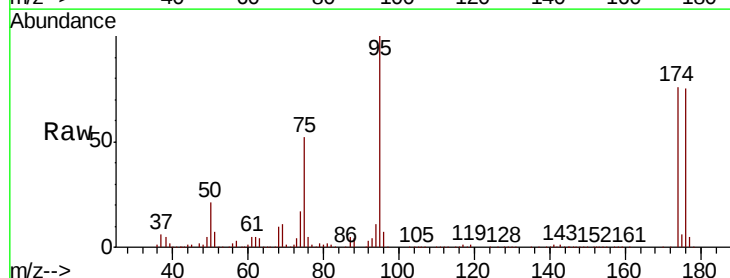
Acq: 24 Apr 2019 18:02

Tgt Ion: 75 Resp: 76715

Ion Ratio Lower Upper

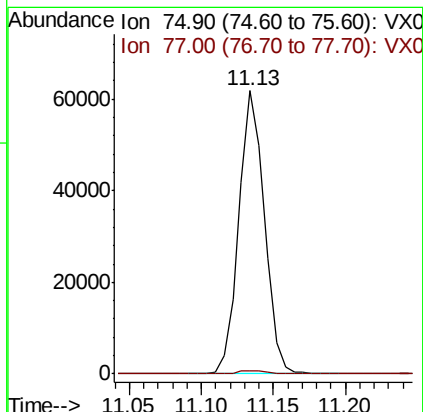
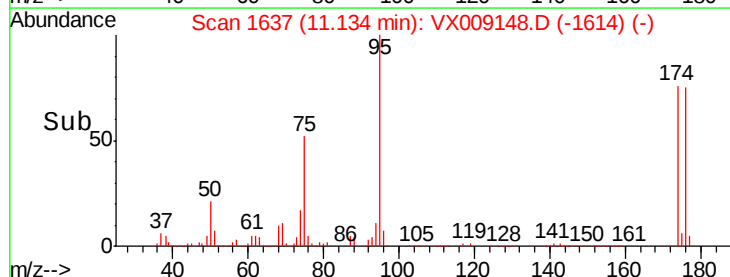
75 100

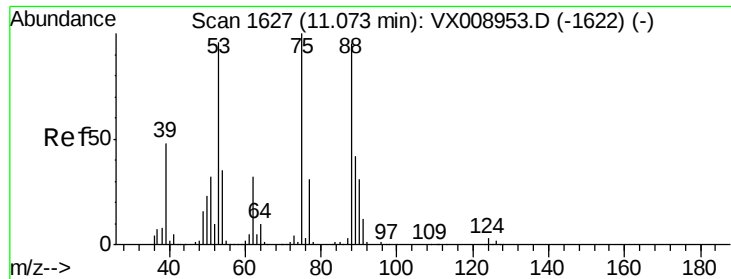
77 1.3 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.555 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009148.D

Acq: 24 Apr 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

HW-7MSD

Tgt Ion: 75 Resp: 76715

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 36.0 54.0#

