

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040819\
 Data File : VX008742.D
 Acq On : 08 Apr 2019 14:03
 Operator : JC/SP
 Sample : K2295-17
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW311-190404

Quant Time: Apr 09 06:44:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	196610	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	327947	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	277727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	115983	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	135607	47.29	ug/l	0.00
Spiked Amount			Recovery	=	94.58%	
35) Dibromofluoromethane	5.50	113	100044	47.71	ug/l	0.00
Spiked Amount			Recovery	=	95.42%	
50) Toluene-d8	8.71	98	406623	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
62) 4-Bromofluorobenzene	11.13	95	133379	45.05	ug/l	0.00
Spiked Amount			Recovery	=	90.10%	

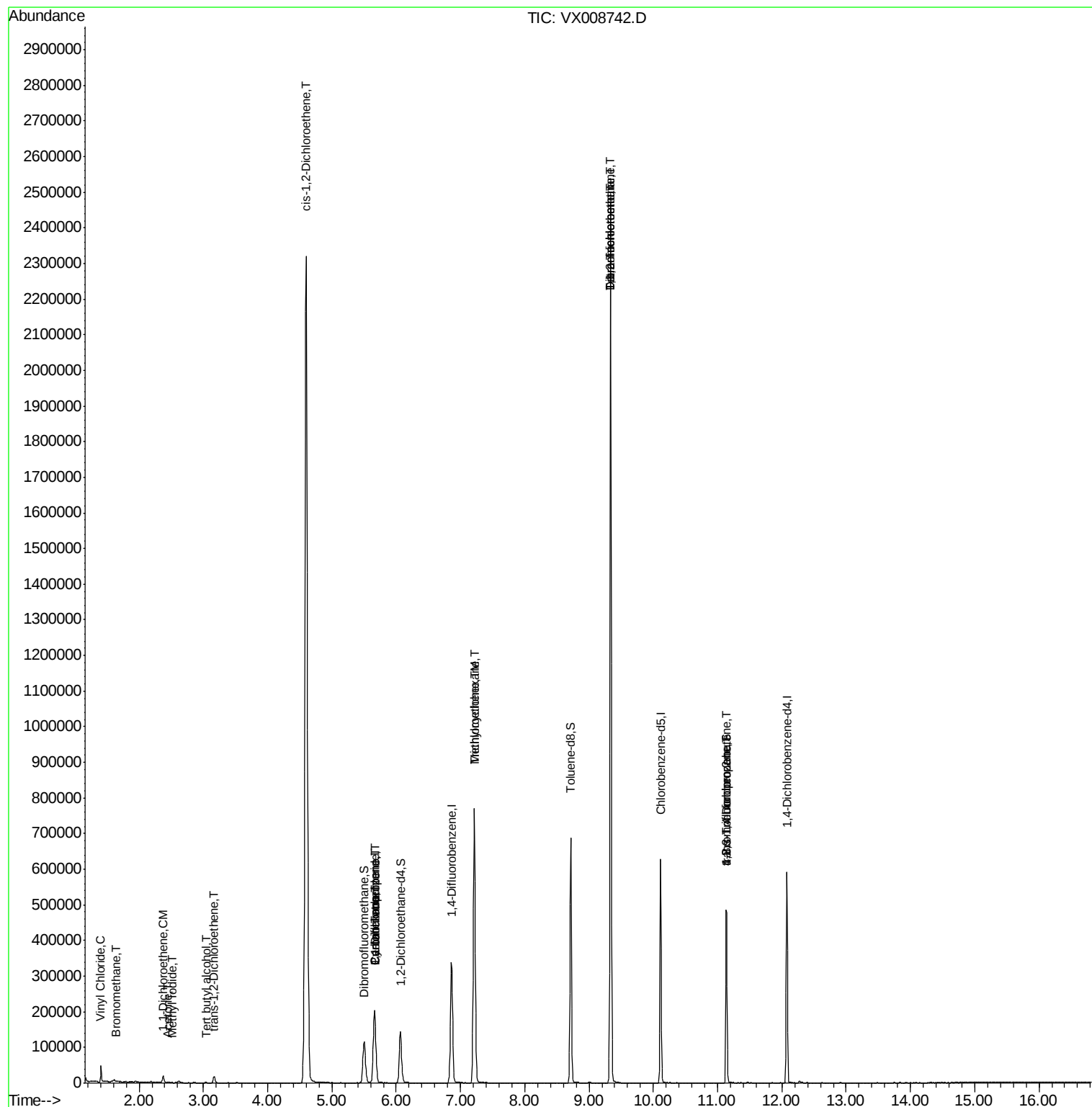
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	511	Below Cal		91
4) Vinyl Chloride	1.40	62	28862	9.434	ug/l	98
5) Bromomethane	1.64	94	480	2.192	ug/l #	53
6) Chloroethane	1.78	64	242	Below Cal	#	43
10) Methyl Iodide	2.52	142	219	4.105	ug/l #	67
11) Tert butyl alcohol	3.06	59	313	0.466	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	5525	2.431	ug/l	95
16) Acetone	2.45	43	735	0.445	ug/l #	82
17) Carbon Disulfide	2.57	76	670	Below Cal	#	76
21) trans-1,2-Dichloroethene	3.17	96	6816	2.772	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	1427057	504.847	ug/l	89
28) Bromochloromethane	5.02	49	21	Below Cal	#	22
31) Cyclohexane	5.66	56	4452	0.899	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15890	4.433	ug/l #	50
38) Carbon Tetrachloride	5.66	117	18847	6.352	ug/l #	18
39) Methylcyclohexane	7.21	83	3713	0.838	ug/l #	1
44) Trichloroethene	7.21	130	288998	116.188	ug/l	99
55) 1,1,2-Trichloroethane	9.34	97	3965	1.569	ug/l #	1
60) Dibromochloromethane	9.34	129	440617	185.014	ug/l #	11
64) Tetrachloroethene	9.34	164	464529	225.755	ug/l	100
76) 1,2,3-Trichloropropane	11.13	75	67759	21.267	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	67759	58.622	ug/l #	9

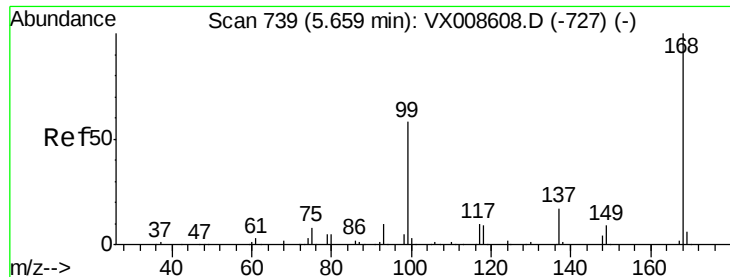
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040819\
Data File : VX008742.D
Acq On : 08 Apr 2019 14:03
Operator : JC/SP
Sample : K2295-17
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
SS037MW311-190404

Quant Time: Apr 09 06:44:02 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

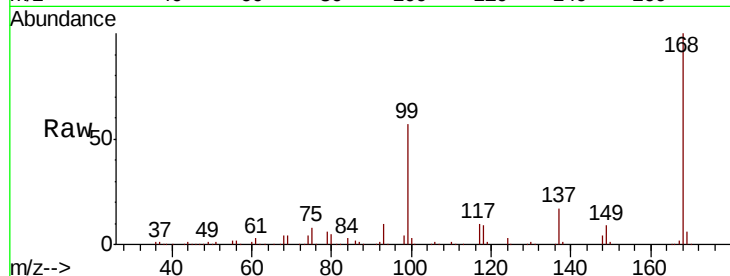
SS037MW311-190404

Tot Ion:168 Resp: 196610

Ion Ratio Lower Upper

168 100

99 57.0 46.7 70.1



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

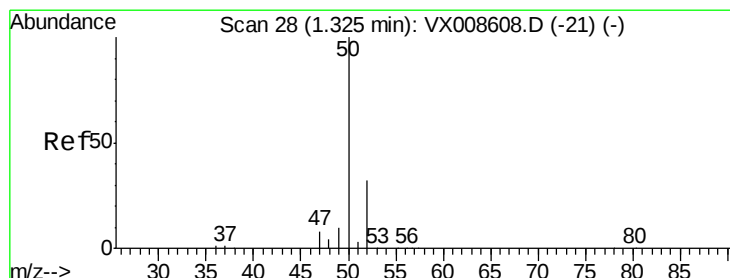
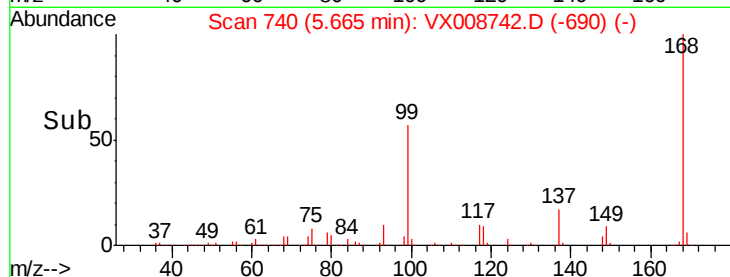
Time-->

5.50

5.60

5.70

5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008742.D

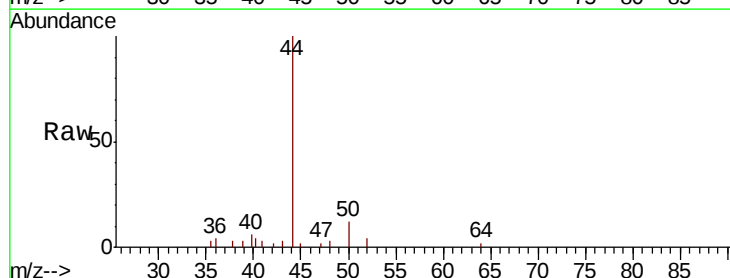
Acq: 08 Apr 2019 14:03

Tgt Ion: 50 Resp: 511

Ion Ratio Lower Upper

50 100

52 37.1 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

300

200

100

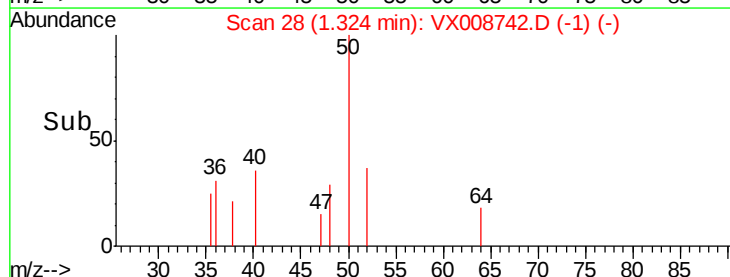
0

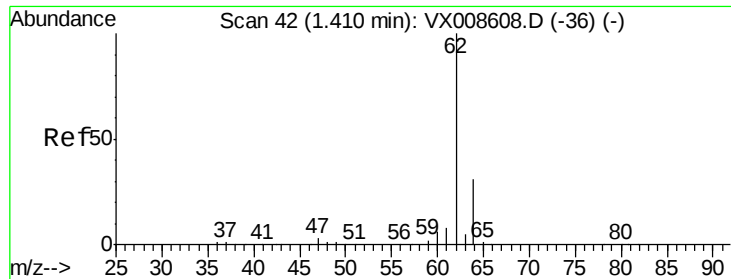
Time-->

1.30

1.35

1.40





#4

Vinyl Chloride

Concen: 9.434 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

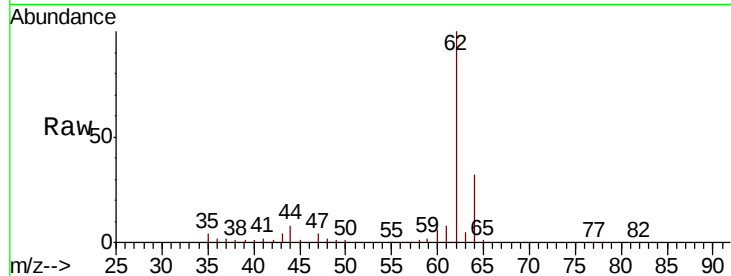
SS037MW311-190404

Tot Ion: 62 Resp: 28862

Ion Ratio Lower Upper

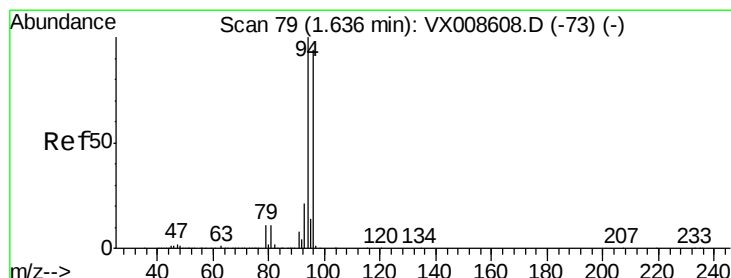
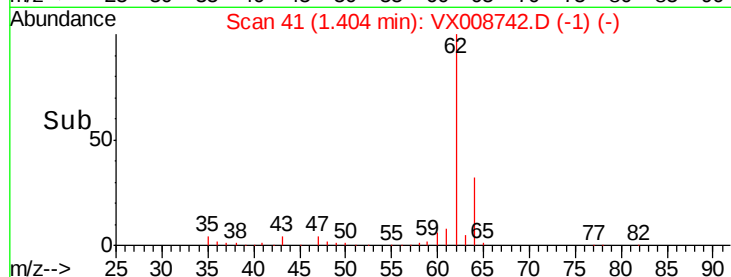
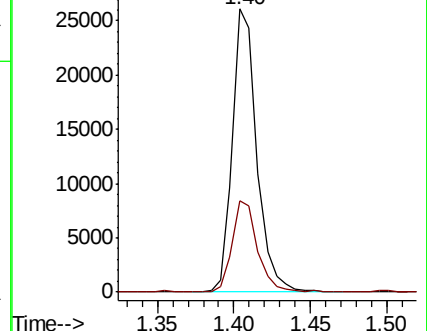
62 100

64 32.2 24.7 37.1



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 2.192 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008742.D

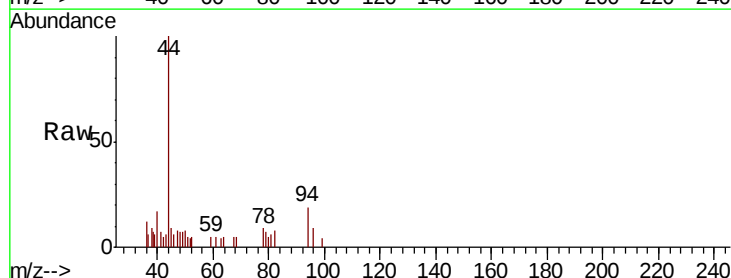
Acq: 08 Apr 2019 14:03

Tgt Ion: 94 Resp: 480

Ion Ratio Lower Upper

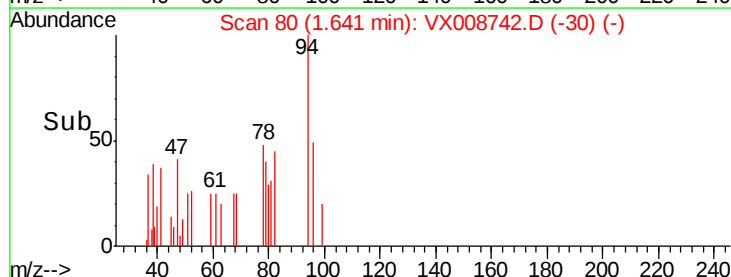
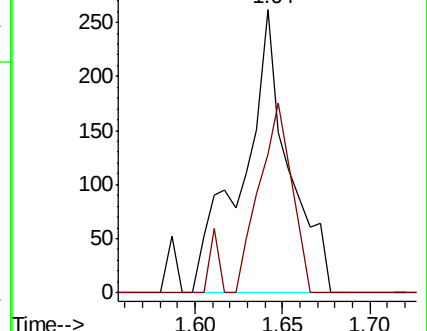
94 100

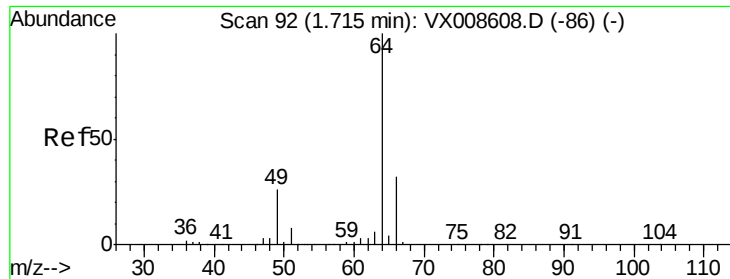
96 48.9 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.78 min Scan# 103

Delta R.T. 0.07 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

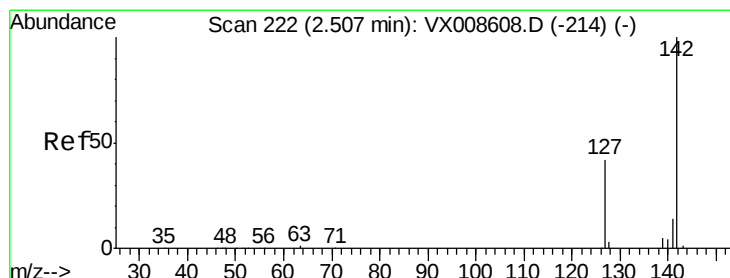
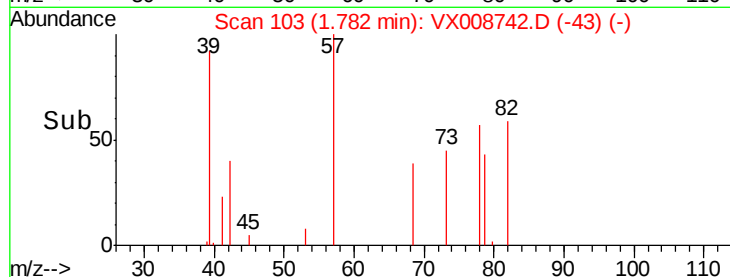
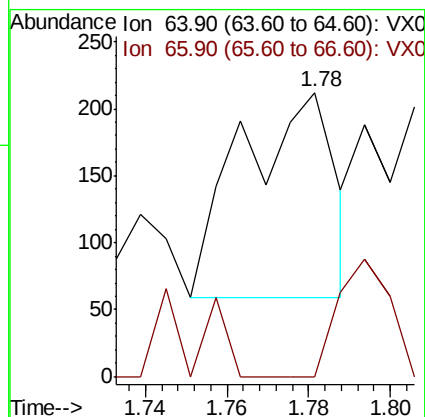
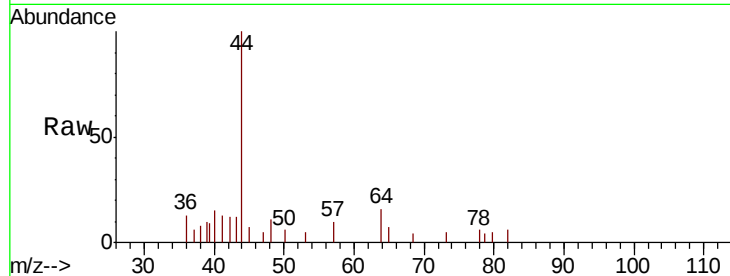
SS037MW311-190404

Tot Ion: 64 Resp: 242

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



#10

Methyl Iodide

Concen: 4.105 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

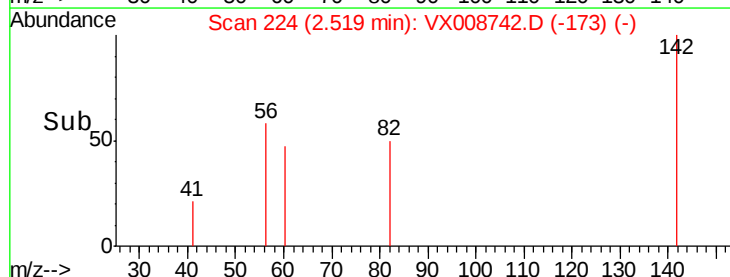
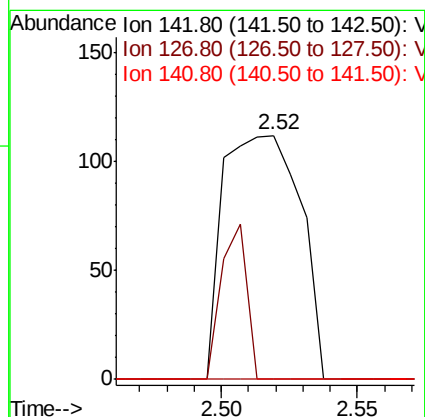
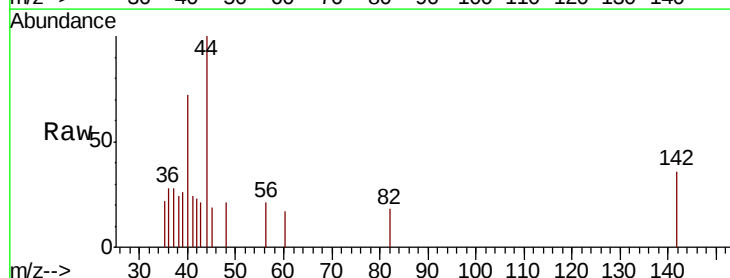
Tgt Ion:142 Resp: 219

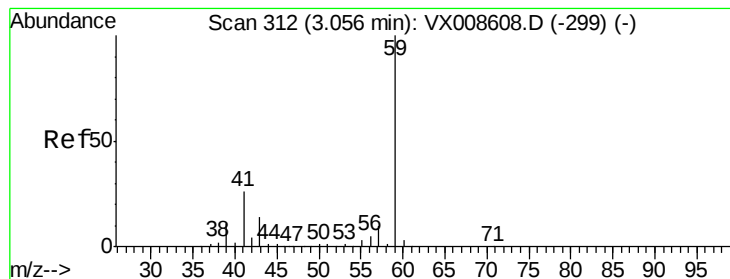
Ion Ratio Lower Upper

142 100

127 21.0 33.0 49.6#

141 0.0 11.4 17.2#



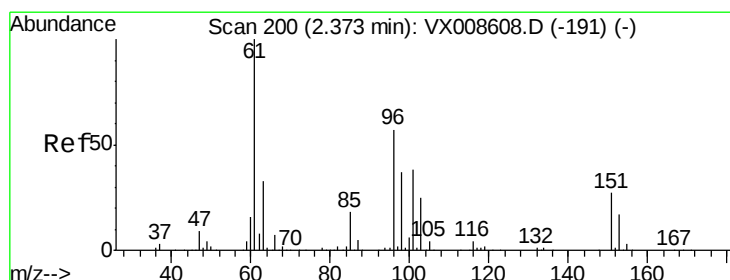
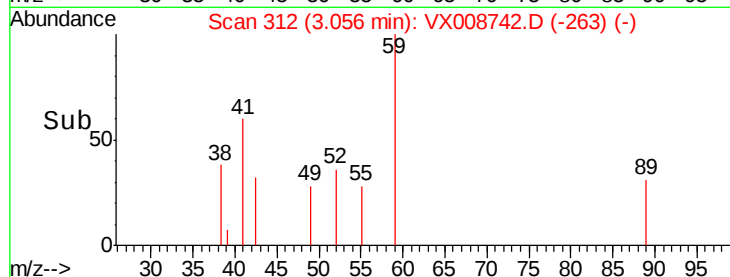
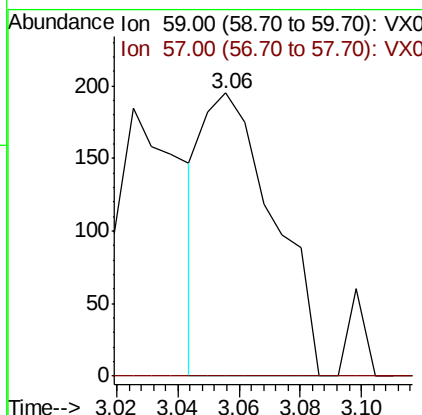
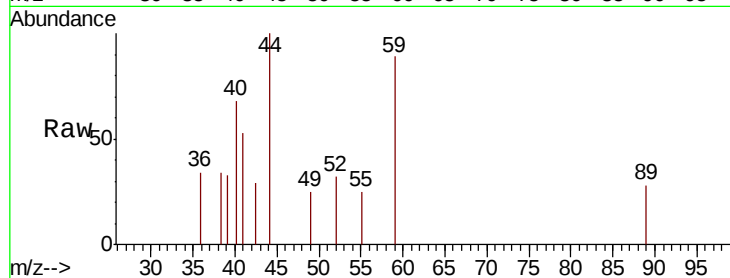


#11

Tert butyl alcohol
 Concen: 0.466 ug/l
 RT: 3.06 min Scan# 312
 Delta R.T. -0.00 min
 Lab File: VX008742.D
 Acq: 08 Apr 2019 14:03

Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW311-190404

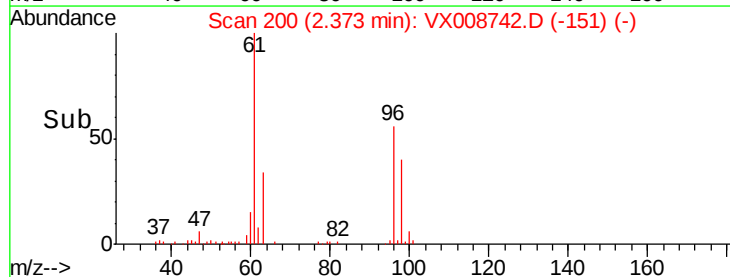
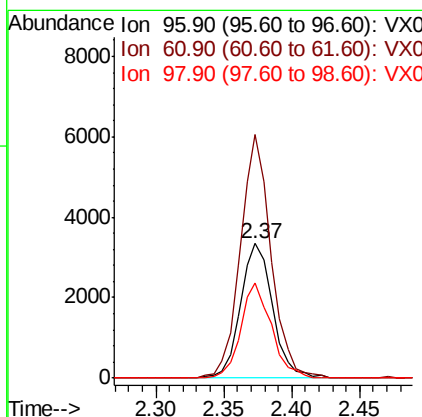
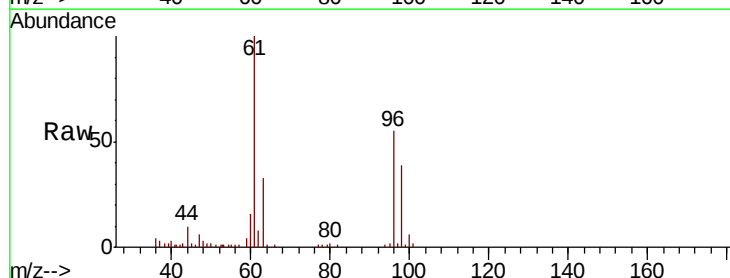
Tot Ion: 59 Resp: 313
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#

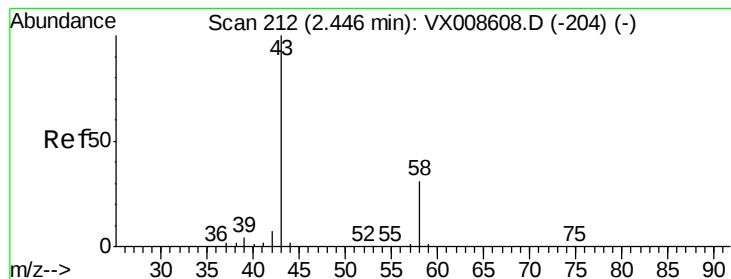


#12

1,1-Dichloroethene
 Concen: 2.431 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. -0.00 min
 Lab File: VX008742.D
 Acq: 08 Apr 2019 14:03

Tgt Ion: 96 Resp: 5525
 Ion Ratio Lower Upper
 96 100
 61 181.2 140.9 211.3
 98 71.2 52.1 78.1





#16

Acetone

Concen: 0.445 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

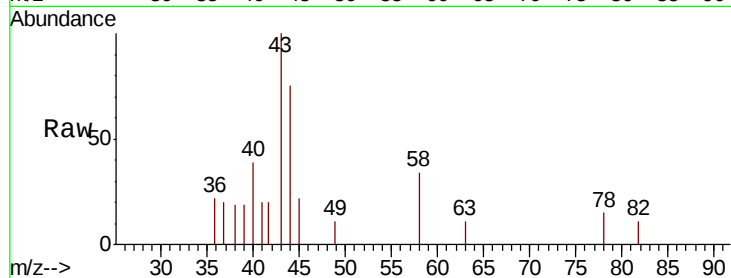
SS037MW311-190404

Tot Ion: 43 Resp: 735

Ion Ratio Lower Upper

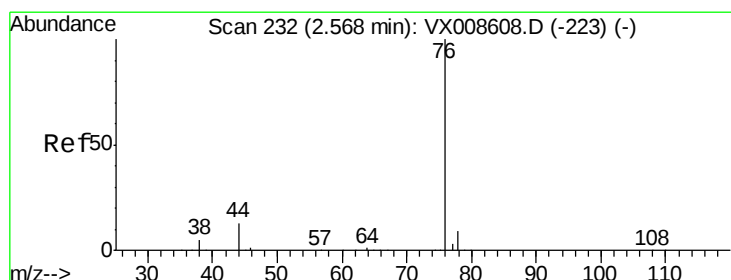
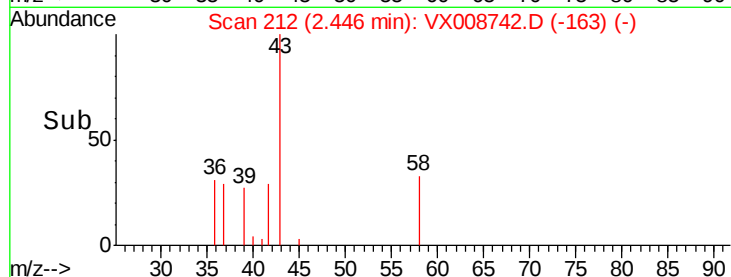
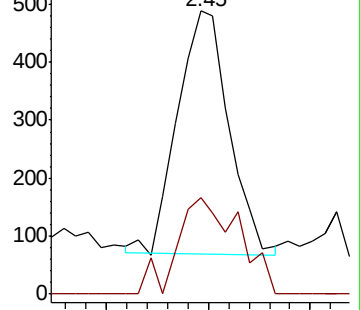
43 100

58 41.1 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: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008742.D

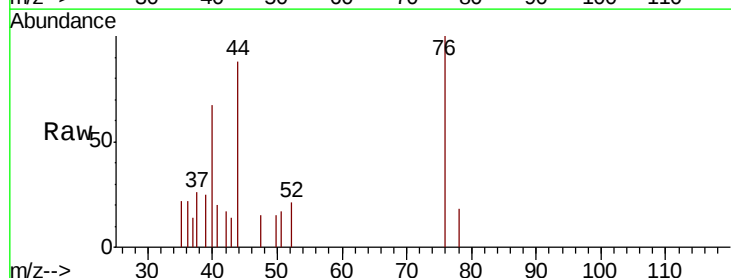
Acq: 08 Apr 2019 14:03

Tgt Ion: 76 Resp: 670

Ion Ratio Lower Upper

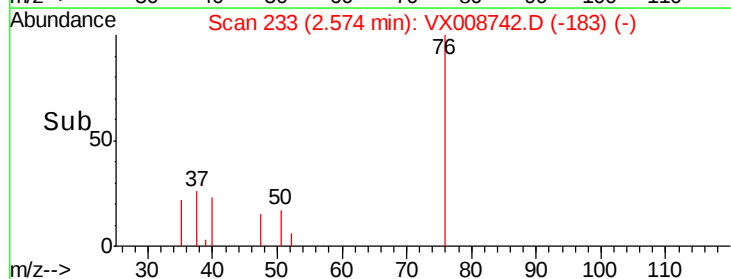
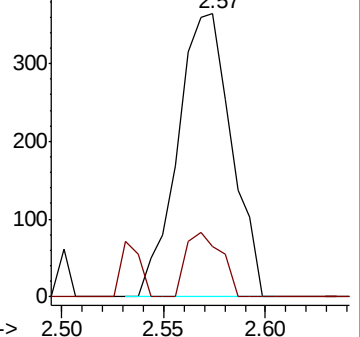
76 100

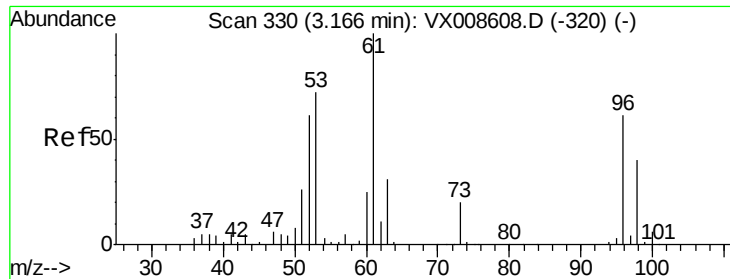
78 17.6 7.1 10.7#



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: 2.772 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-190404

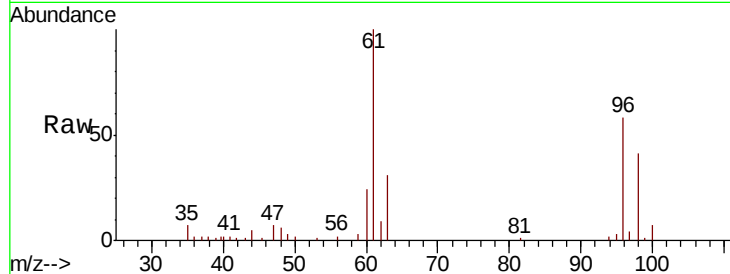
Tot Ion: 96 Resp: 6816

Ion Ratio Lower Upper

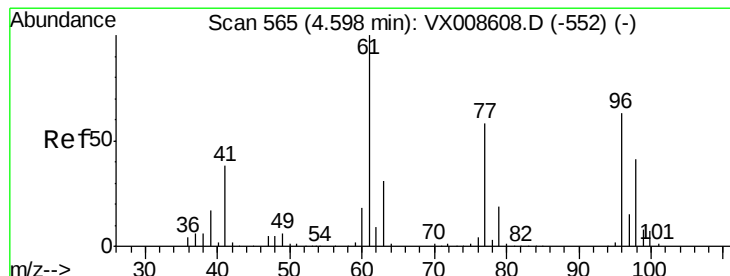
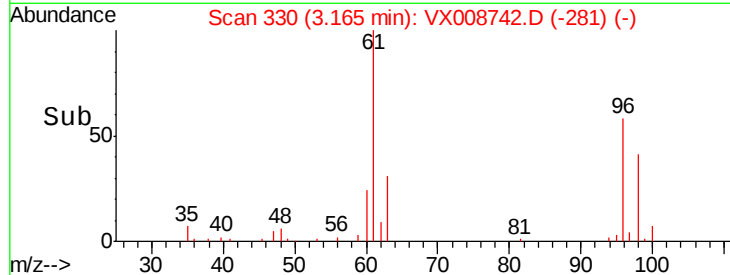
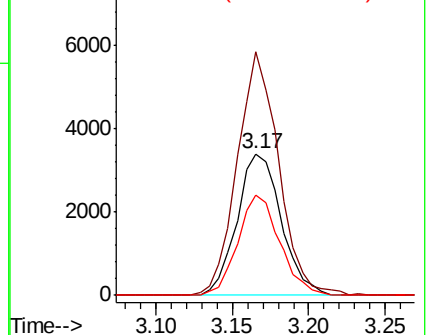
96 100

61 172.3 132.1 198.1

98 70.7 52.2 78.2



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



#27

cis-1,2-Dichloroethene

Concen: 504.847 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

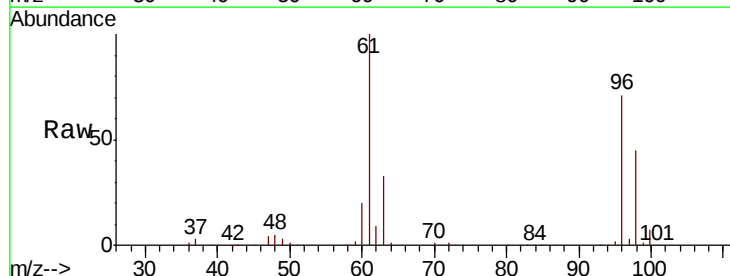
Tgt Ion: 96 Resp: 1427057

Ion Ratio Lower Upper

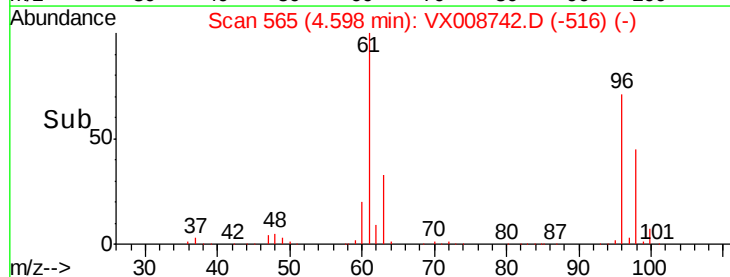
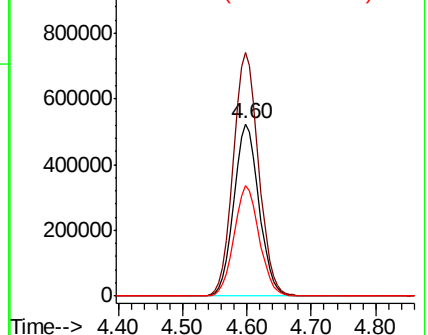
96 100

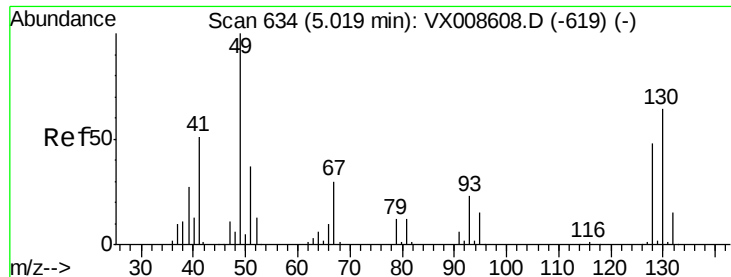
61 142.8 0.0 327.6

98 64.1 0.0 128.6



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: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-190404

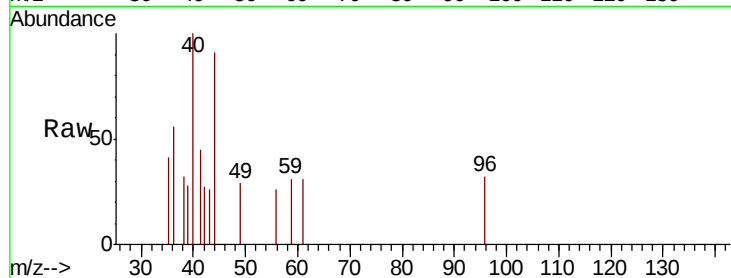
Tot Ion: 49 Resp: 21

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

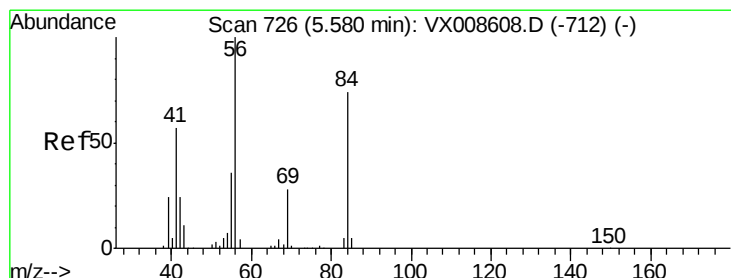
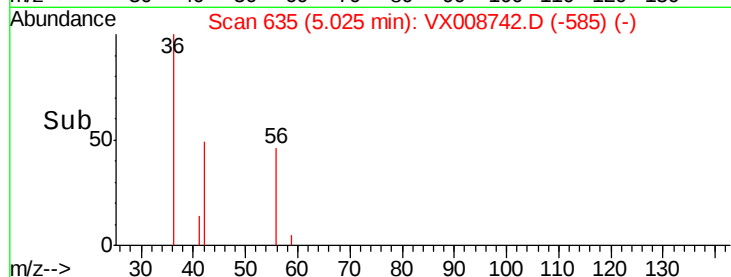
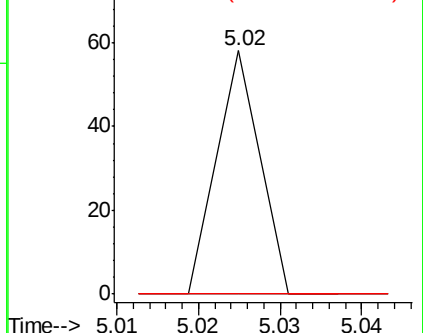
130 0.0 49.3 73.9#



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: 0.899 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

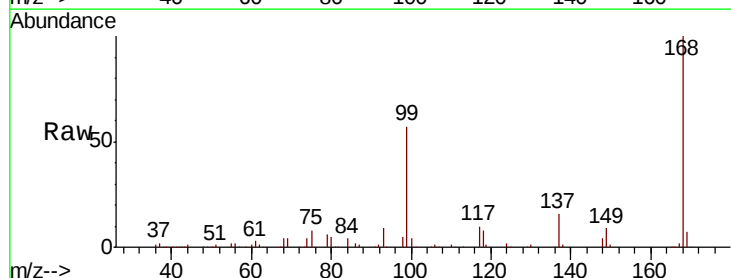
Tgt Ion: 56 Resp: 4452

Ion Ratio Lower Upper

56 100

69 150.2 22.6 33.8#

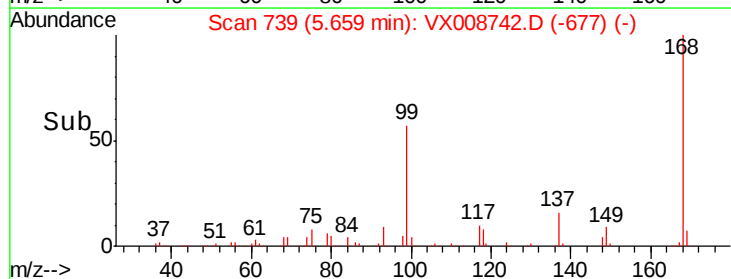
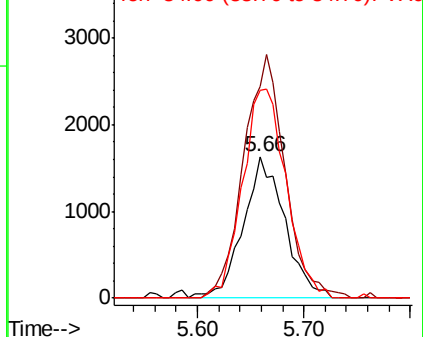
84 147.1 59.3 88.9#

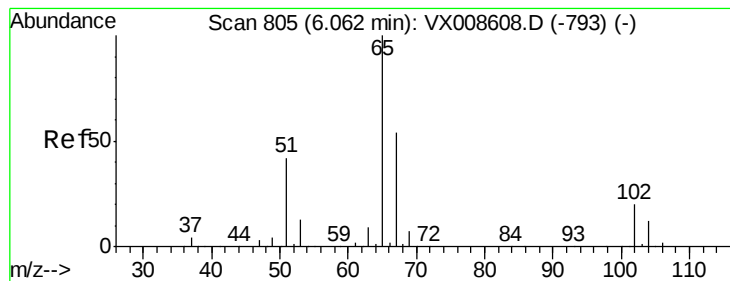


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.288 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

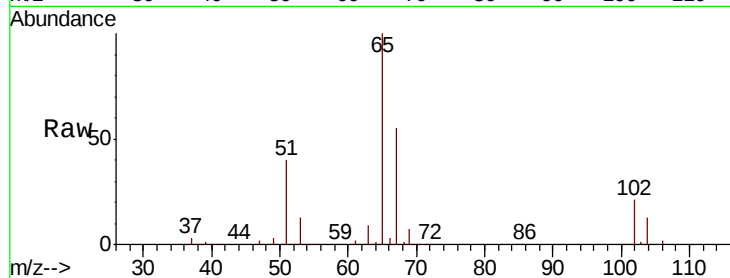
SS037MW311-190404

Tot Ion: 65 Resp: 135607

Ion Ratio Lower Upper

65 100

67 54.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

50000

40000

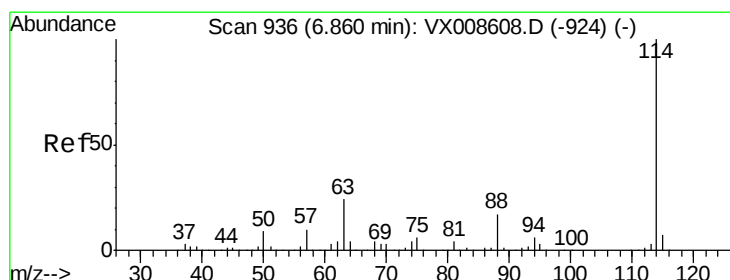
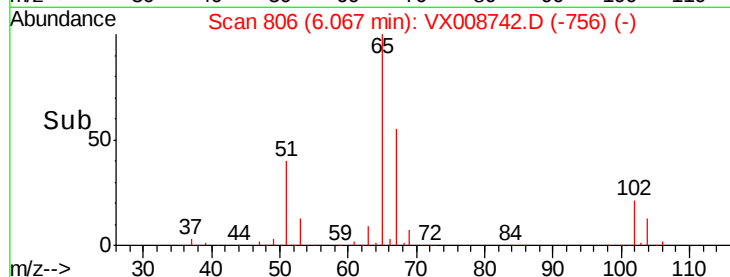
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

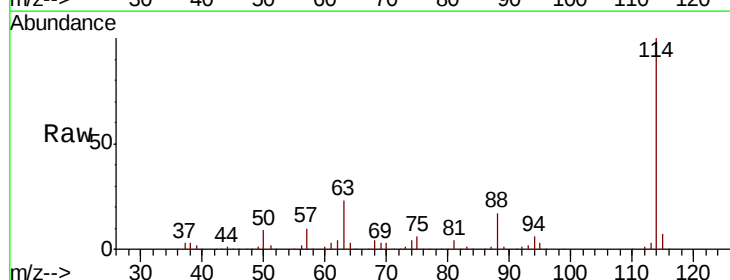
Tgt Ion:114 Resp: 327947

Ion Ratio Lower Upper

114 100

63 23.4 0.0 47.2

88 16.7 0.0 34.0



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

6.86

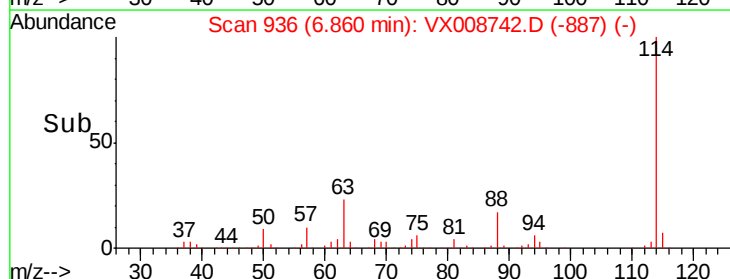
150000

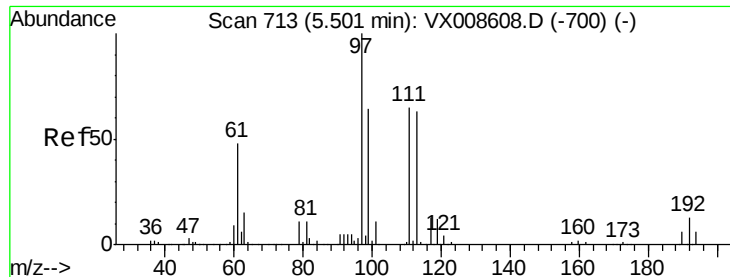
100000

50000

0

Time--> 6.70 6.80 6.90 7.00 7.10





#35

Dibromofluoromethane

Concen: 47.713 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-190404

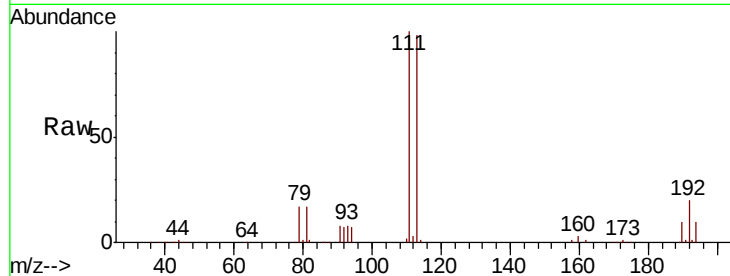
Tot Ion:113 Resp: 100044

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

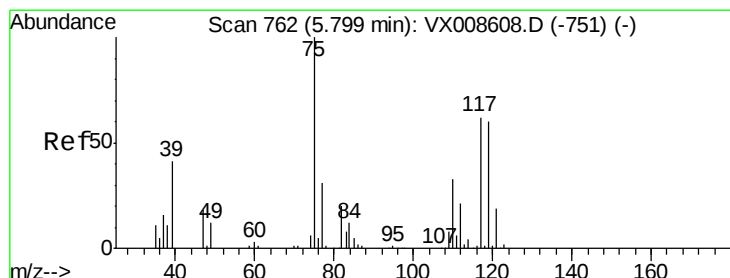
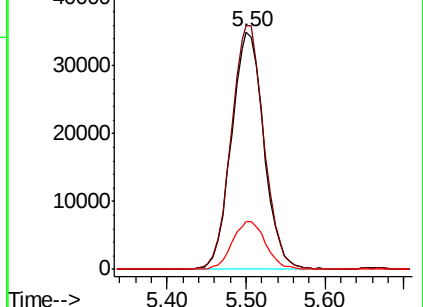
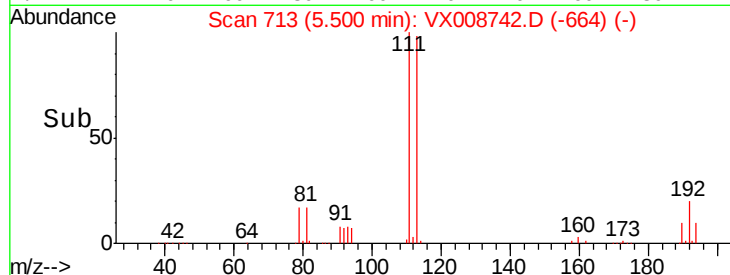
192 20.7 16.1 24.1



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: 4.433 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

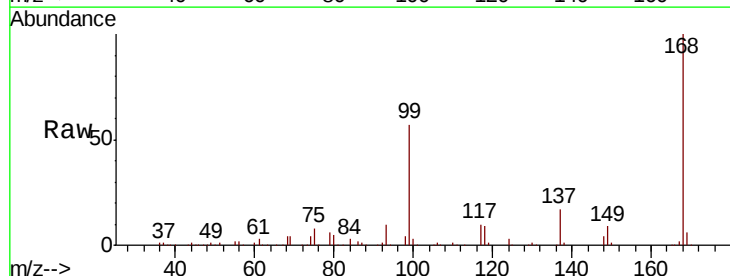
Tgt Ion: 75 Resp: 15890

Ion Ratio Lower Upper

75 100

110 8.1 16.4 49.2#

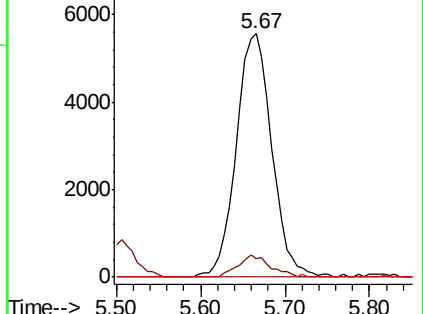
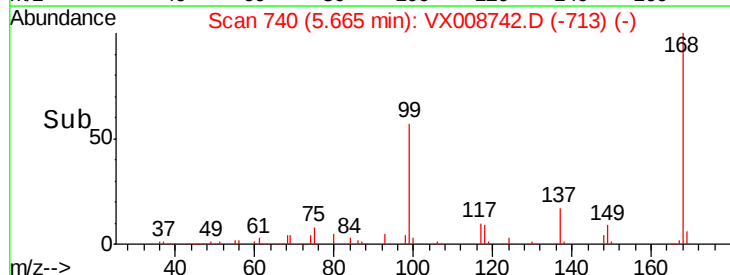
77 0.0 24.7 37.1#

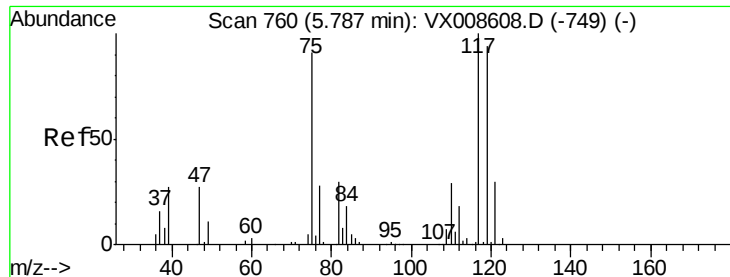


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.352 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-190404

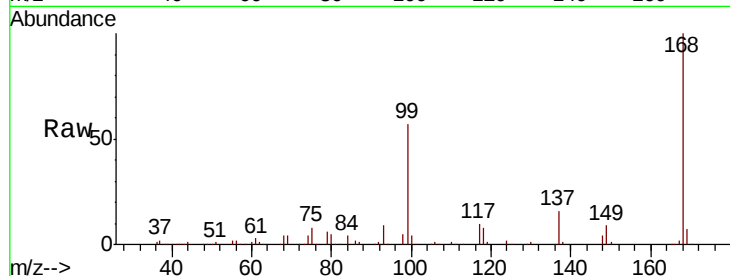
Tot Ion:117 Resp: 18847

Ion Ratio Lower Upper

117 100

119 7.0 75.0 112.6#

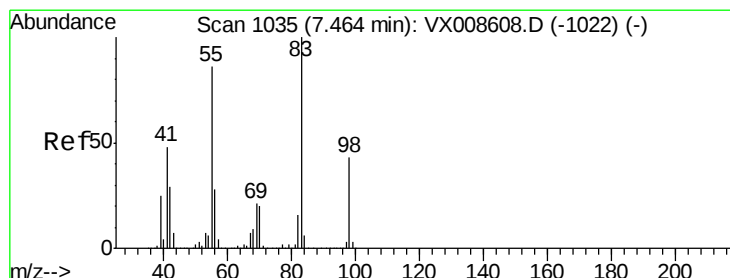
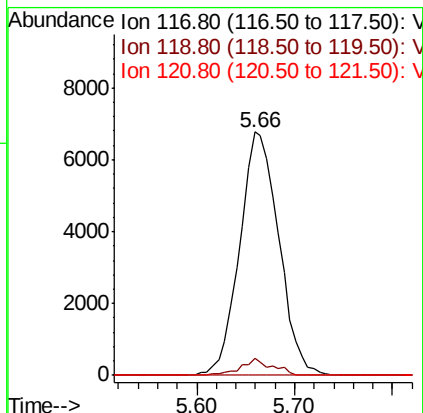
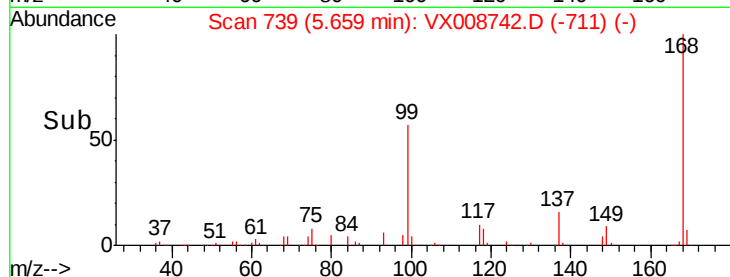
121 0.0 24.3 36.5#



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



#39

Methylcyclohexane

Concen: 0.838 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.25 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

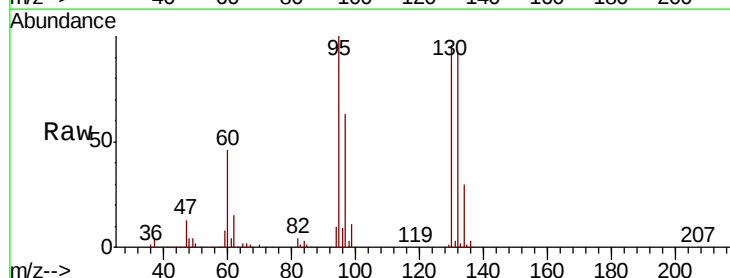
Tgt Ion: 83 Resp: 3713

Ion Ratio Lower Upper

83 100

55 3.5 69.0 103.6#

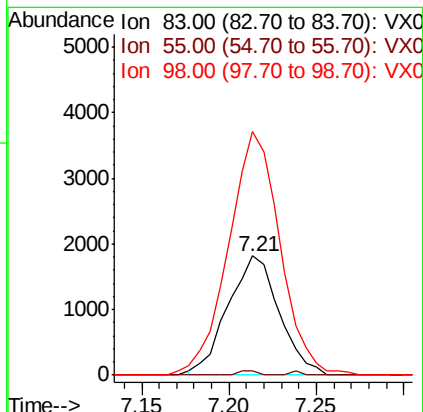
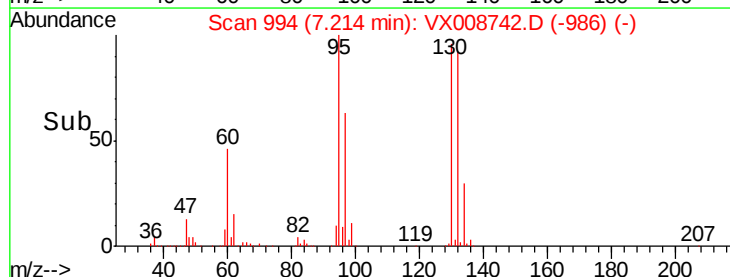
98 200.8 34.4 51.6#

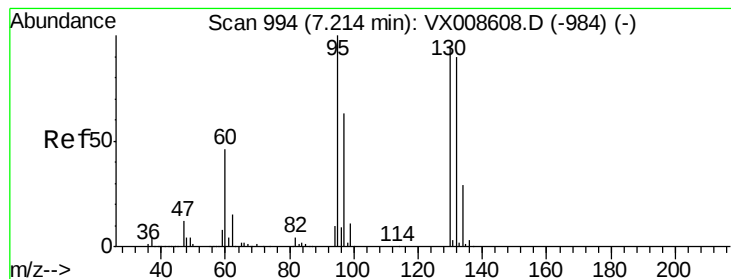


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 116.188 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

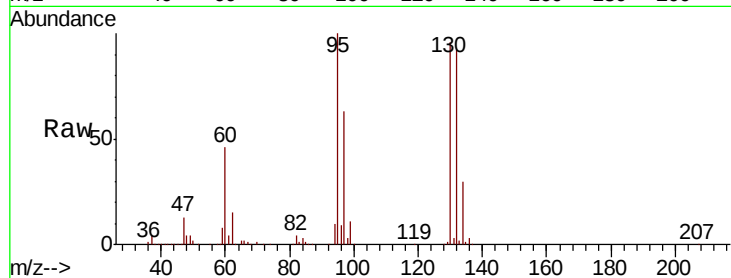
SS037MW311-190404

Tot Ion:130 Resp: 288998

Ion Ratio Lower Upper

130 100

95 104.3 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

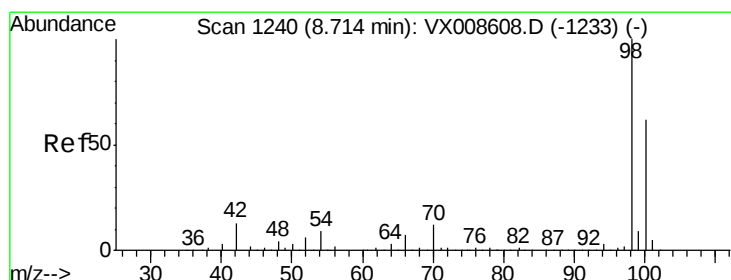
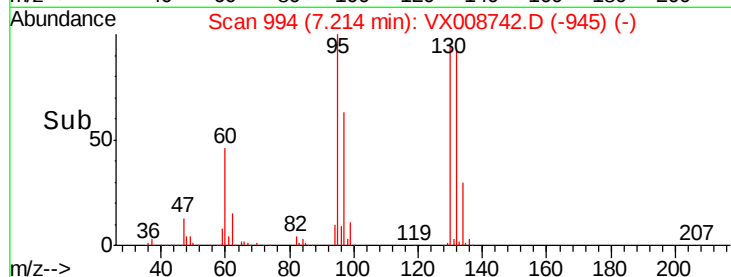
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 48.705 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008742.D

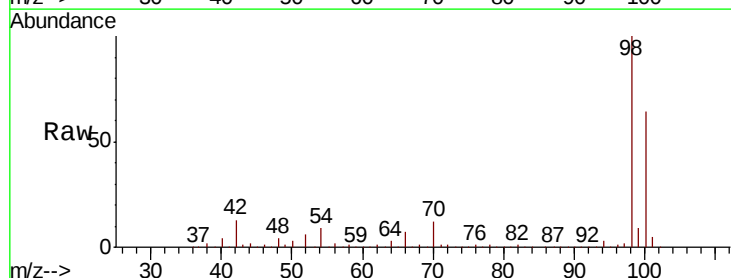
Acq: 08 Apr 2019 14:03

Tgt Ion: 98 Resp: 406623

Ion Ratio Lower Upper

98 100

100 63.8 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

300000

250000

200000

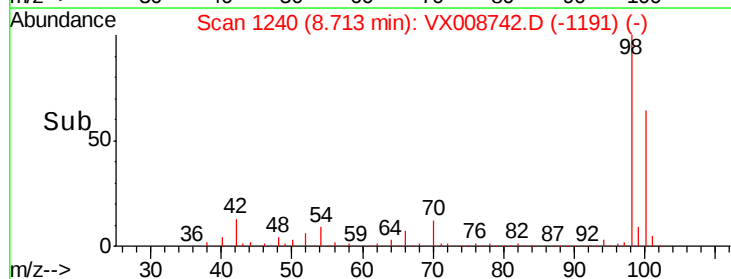
150000

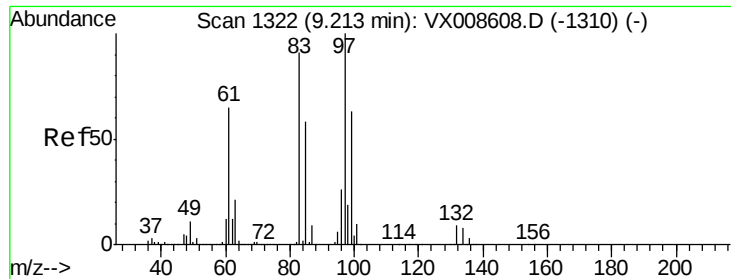
100000

50000

0

Time-->

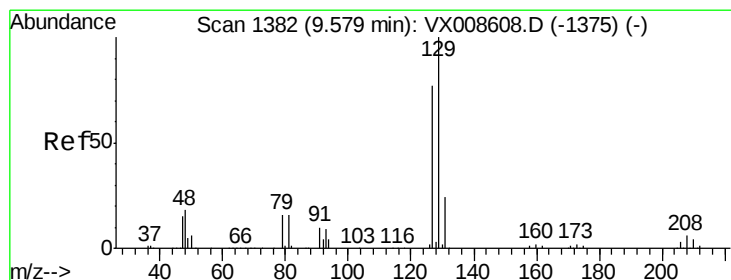
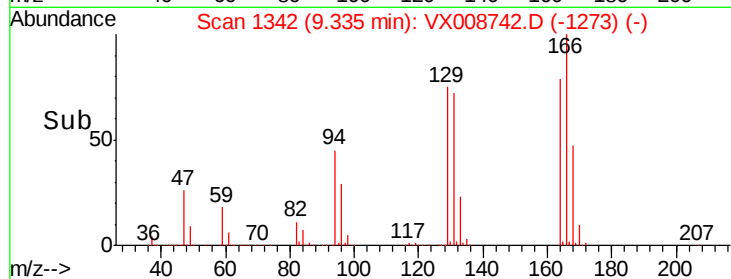
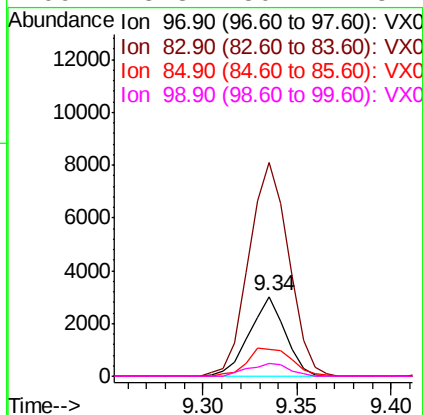
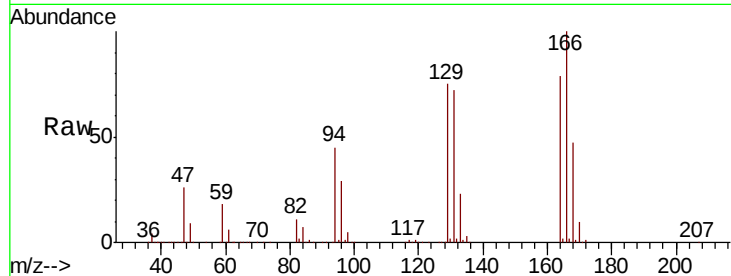




#55
 1,1,2-Trichloroethane
 Concen: 1.569 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. 0.12 min
 Lab File: VX008742.D
 Acq: 08 Apr 2019 14:03

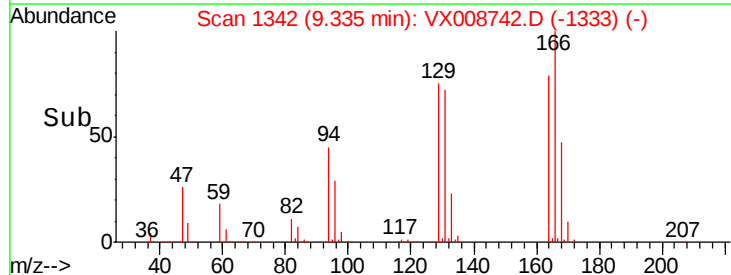
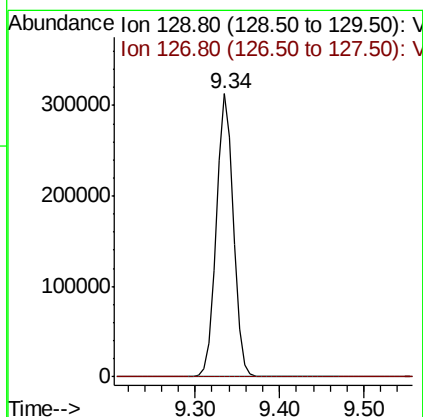
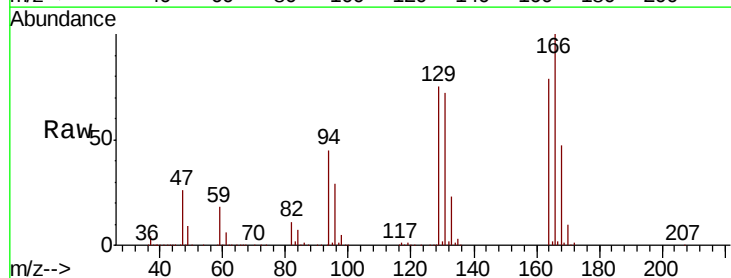
Instrument :
 MSVOA_X
 ClientSampleId :
 SS037MW311-190404

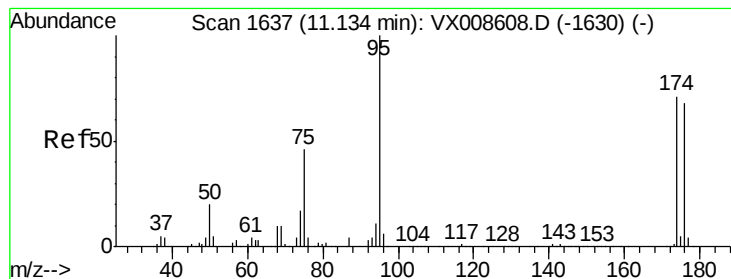
Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	267.0	73.2	109.8#	
85	33.0	46.6	69.8#	
99	15.3	50.1	75.1#	



#60
 Dibromochloromethane
 Concen: 185.014 ug/l
 RT: 9.34 min Scan# 1342
 Delta R.T. -0.24 min
 Lab File: VX008742.D
 Acq: 08 Apr 2019 14:03

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	0.1	38.5	115.3#	





#62

4-Bromofluorobenzene

Concen: 45.051 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

SS037MW311-190404

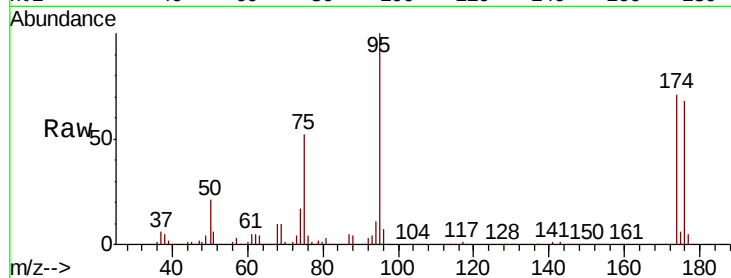
Tot Ion: 95 Resp: 133379

Ion Ratio Lower Upper

95 100

174 77.8 0.0 151.8

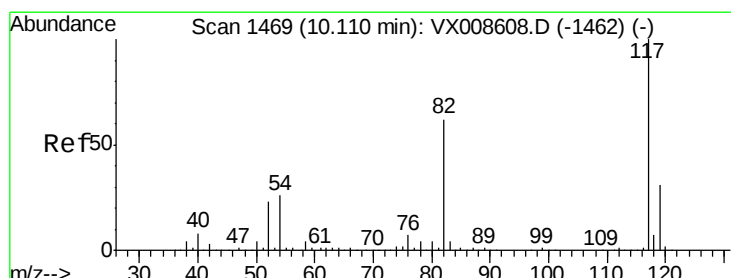
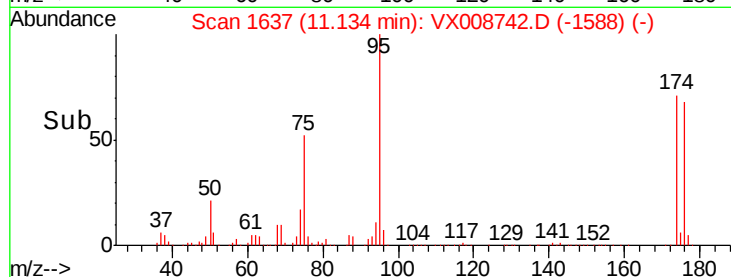
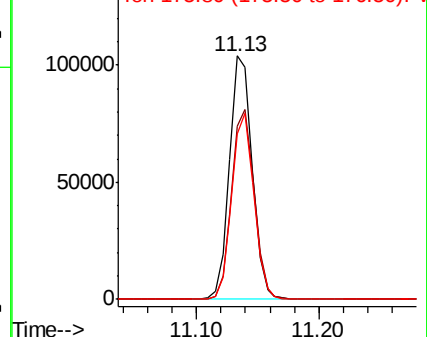
176 74.5 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

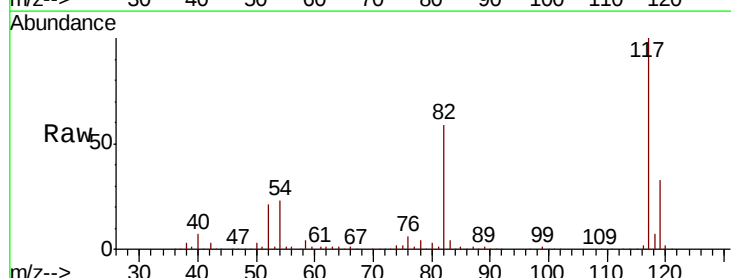
Tgt Ion: 117 Resp: 277727

Ion Ratio Lower Upper

117 100

82 58.6 49.6 74.4

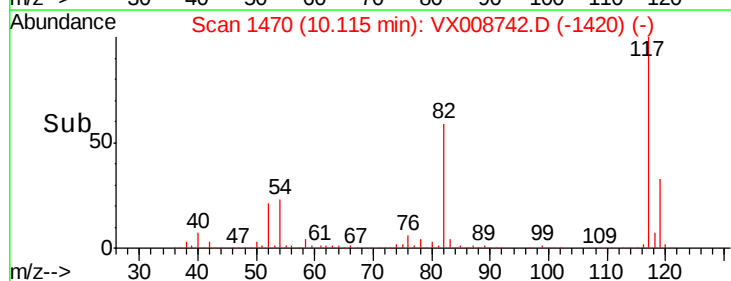
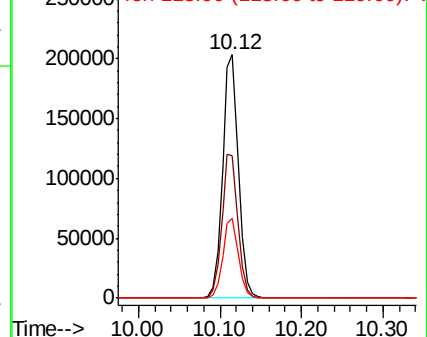
119 32.5 25.0 37.4

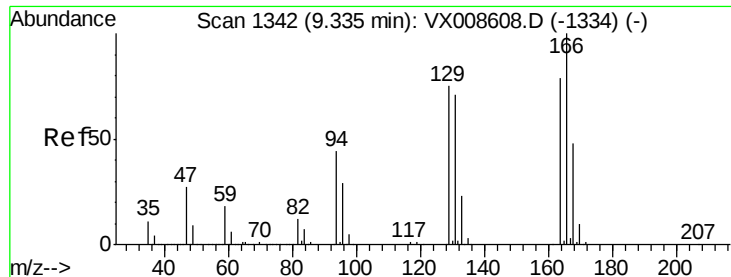


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

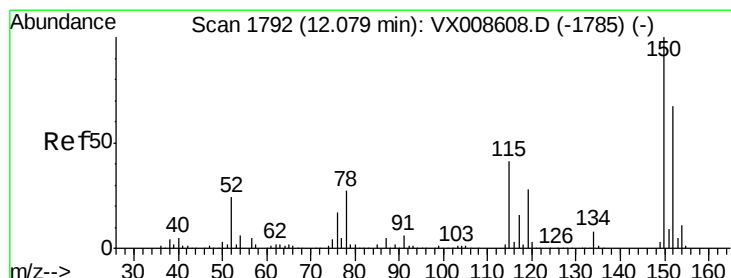
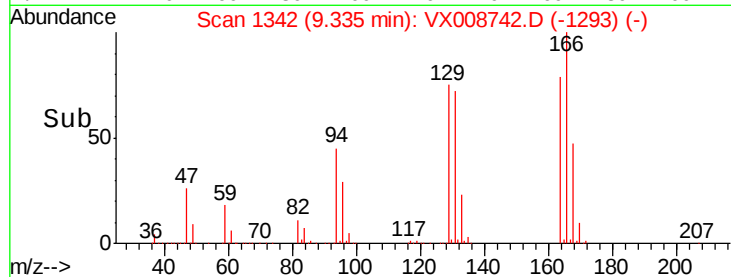
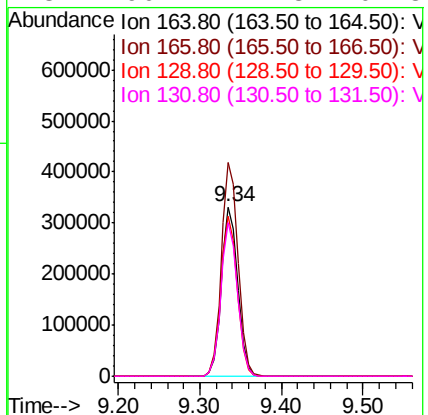
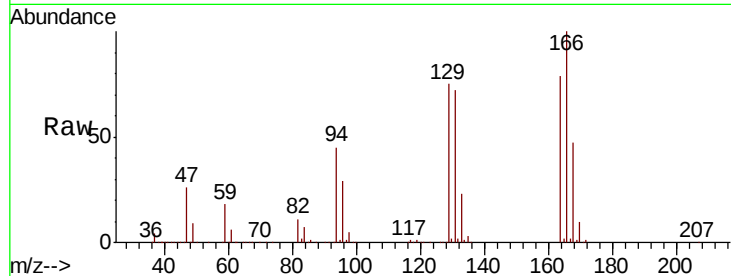




#64
Tetrachloroethene
Concen: 225.755 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008742.D
Acq: 08 Apr 2019 14:03

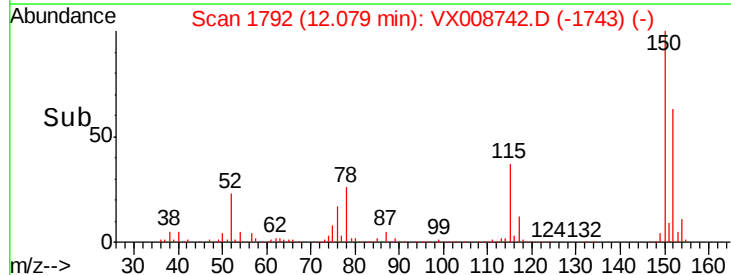
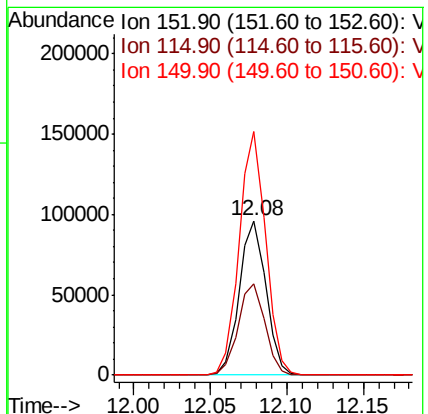
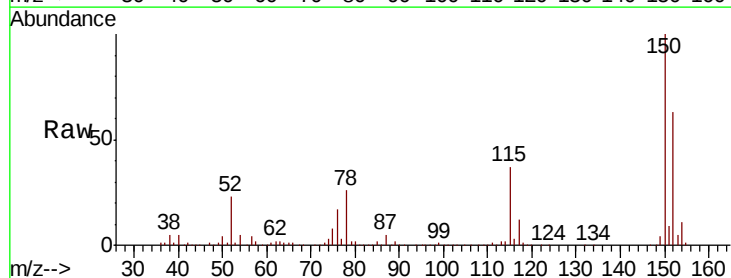
Instrument :
MSVOA_X
ClientSampleId :
SS037MW311-190404

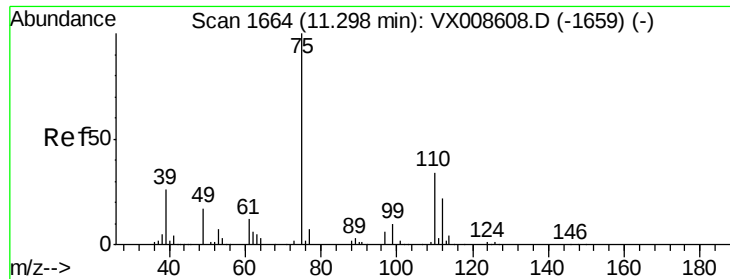
Tot Ion	Ratio	Lower	Upper
164	100		
166	126.1	101.0	151.6
129	94.4	75.8	113.8
131	90.7	71.8	107.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008742.D
Acq: 08 Apr 2019 14:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.9	43.5	130.5
150	157.3	0.0	348.8





#76

1,2,3-Trichloropropane

Concen: 21.267 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

Instrument :

MSVOA_X

ClientSampleId :

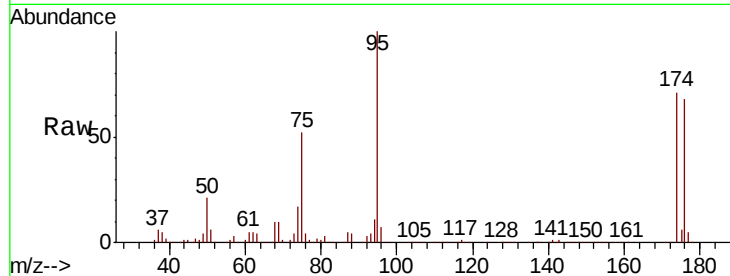
SS037MW311-190404

Tot Ion: 75 Resp: 67759

Ion Ratio Lower Upper

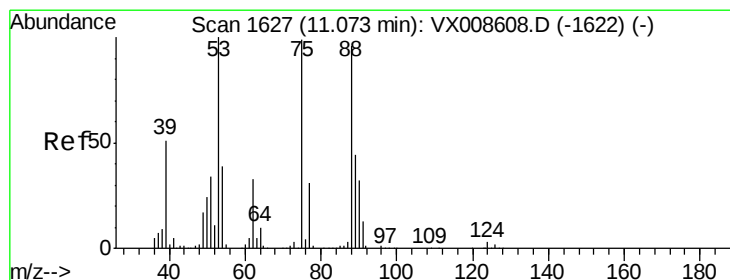
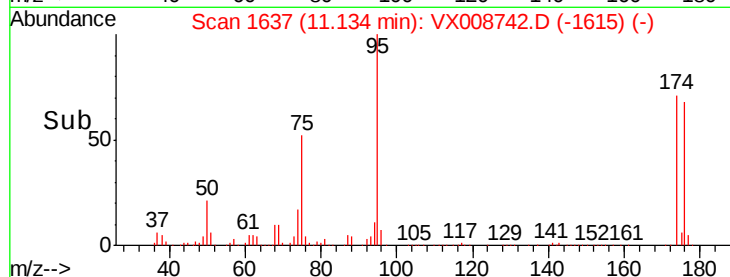
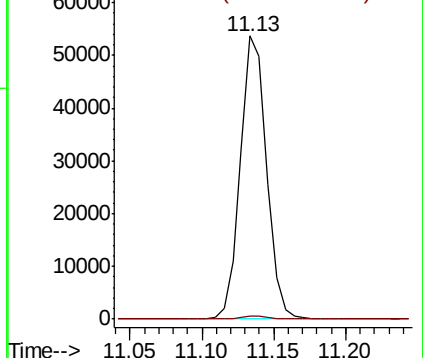
75 100

77 1.2 22.3 66.8#



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: 58.622 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008742.D

Acq: 08 Apr 2019 14:03

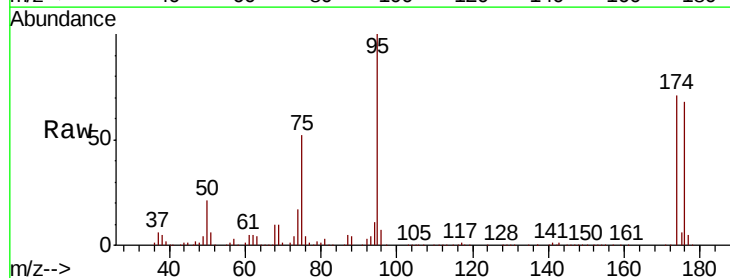
Tgt Ion: 75 Resp: 67759

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

