

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010920\
 Data File : VX014502.D
 Acq On : 09 Jan 2020 17:23
 Operator : JC/SP
 Sample : L1034-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-A

Quant Time: Jan 10 06:49:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 07 15:54:41 2020
 Response via : Initial Calibration

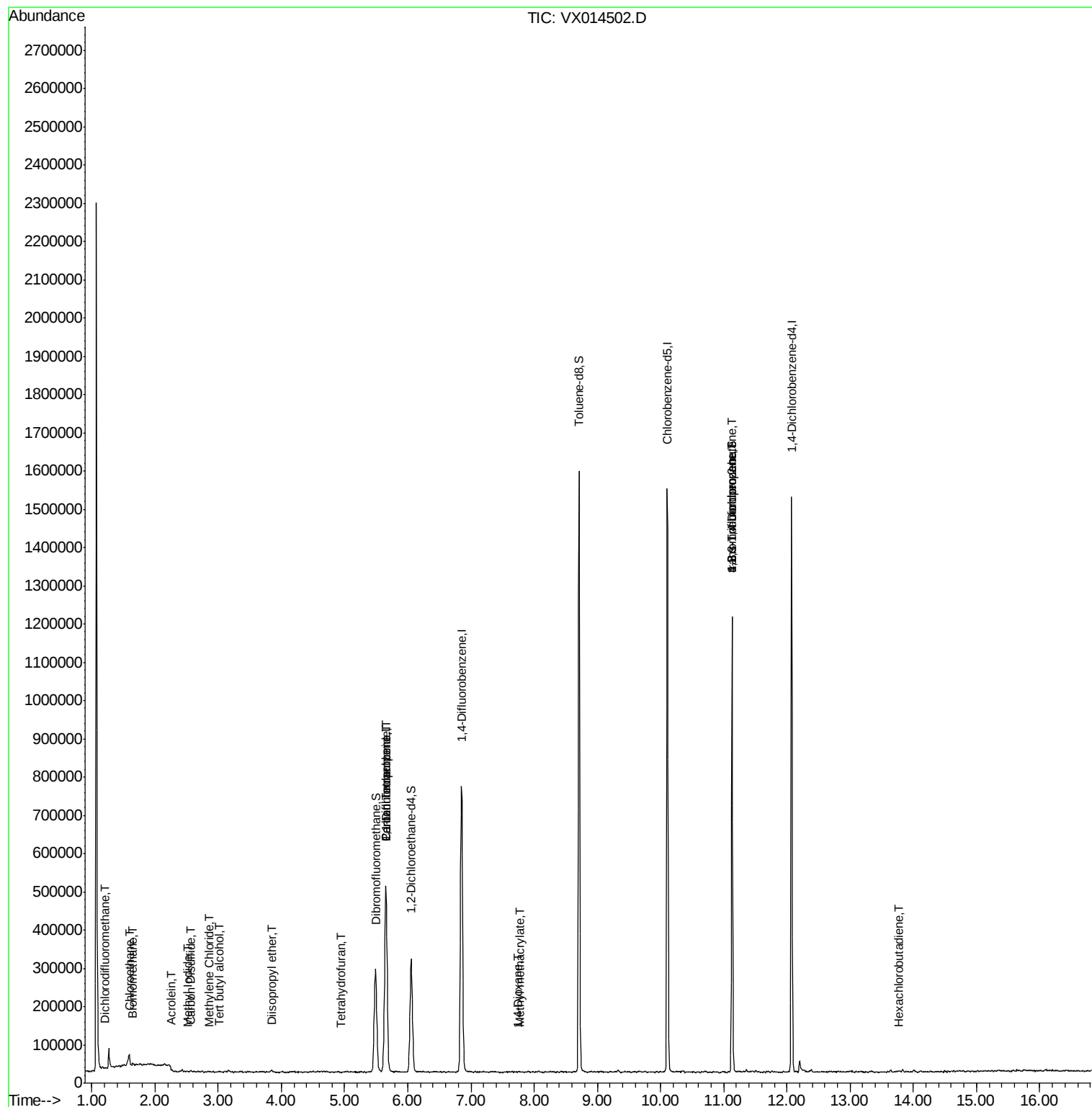
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	508772	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	786917	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	709013	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	323562	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.05	65	279349	49.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.36%	
35) Dibromofluoromethane	5.49	113	234210	49.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.34%	
50) Toluene-d8	8.71	98	925438	50.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.12%	
62) 4-Bromofluorobenzene	11.13	95	314850	46.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.78%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.20	85	383	0.313	ug/l #	57
5) Bromomethane	1.65	94	1880	0.392	ug/l	84
6) Chloroethane	1.59	64	11113	1.575	ug/l #	57
10) Methyl Iodide	2.52	142	2367	0.396	ug/l #	74
11) Tert butyl alcohol	3.02	59	611	0.515	ug/l #	47
13) Acrolein	2.27	56	265	0.279	ug/l #	76
16) Acetone	2.43	43	5451	Below Cal		89
17) Carbon Disulfide	2.56	76	3982	0.284	ug/l #	89
20) Methylene Chloride	2.86	84	1523	0.267	ug/l #	84
22) Diisopropyl ether	3.85	45	5531	0.324	ug/l #	78
29) Tetrahydrofuran	4.95	42	583	0.232	ug/l	97
36) 1,1-Dichloropropene	5.65	75	35150	4.750	ug/l #	41
38) Carbon Tetrachloride	5.65	117	45162	6.632	ug/l #	17
48) Methyl methacrylate	7.76	41	1399	0.225	ug/l #	47
49) 1,4-Dioxane	7.73	88	297	2.254	ug/l #	23
76) 1,2,3-Trichloropropane	11.13	75	153677	22.955	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	153677	60.690	ug/l #	12
88) 1,4-Dichlorobenzene	12.09	146	1714	Below Cal	#	1
94) Hexachlorobutadiene	13.78	225	840	0.292	ug/l	93

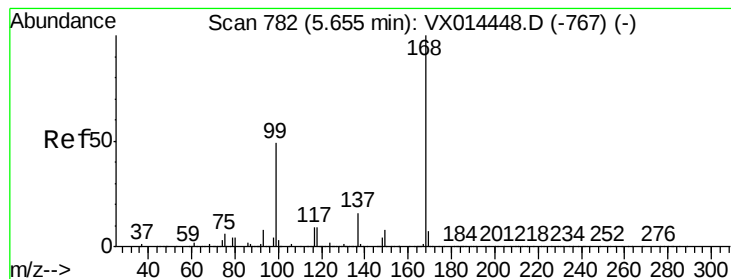
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jan 07 15:54:41 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampled :

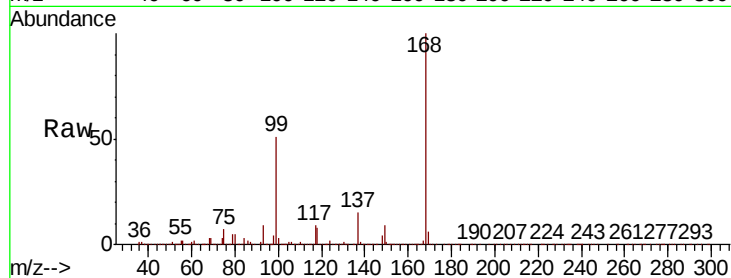
MW-A

Tot Ion:168 Resp: 508772

Ion Ratio Lower Upper

168 100

99 51.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

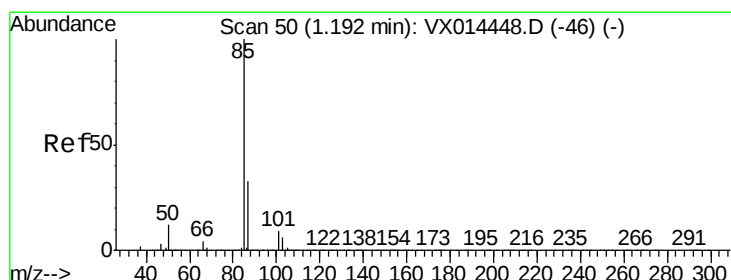
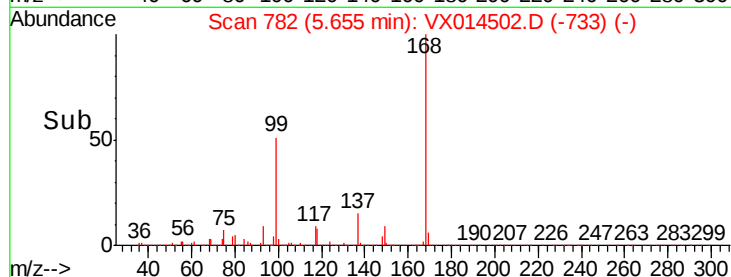
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.313 ug/l

RT: 1.20 min Scan# 52

Delta R.T. 0.01 min

Lab File: VX014502.D

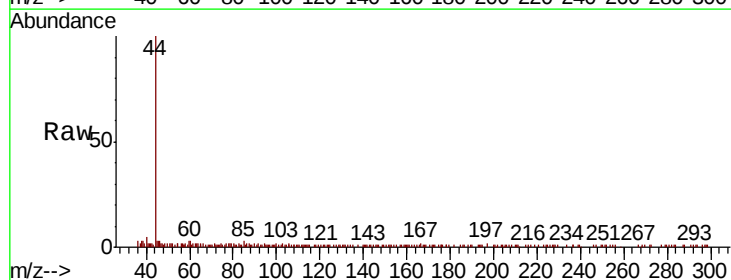
Acq: 09 Jan 2020 17:23

Tgt Ion: 85 Resp: 383

Ion Ratio Lower Upper

85 100

87 57.5 16.5 49.5#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

400

300

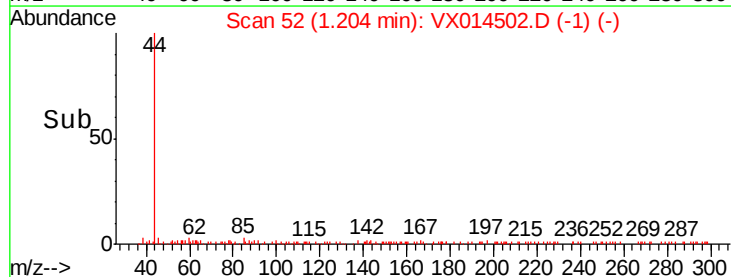
200

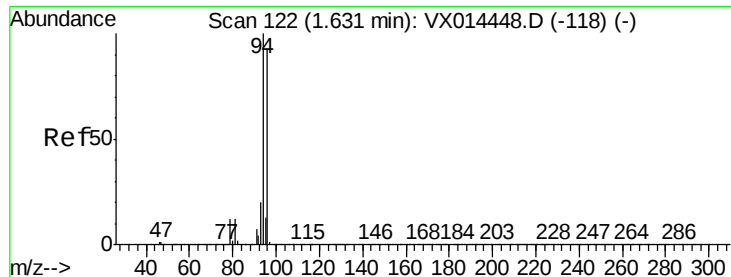
100

0

Time-->

1.16 1.18 1.20 1.22





#5

Bromomethane

Concen: 0.392 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampled :

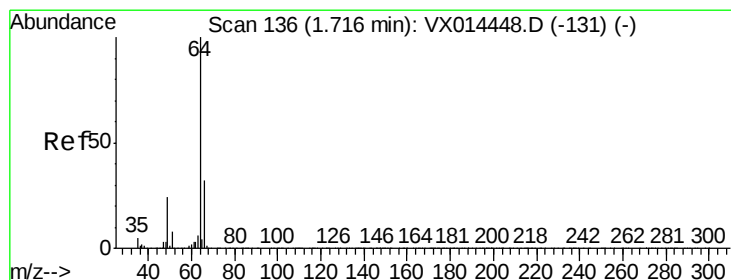
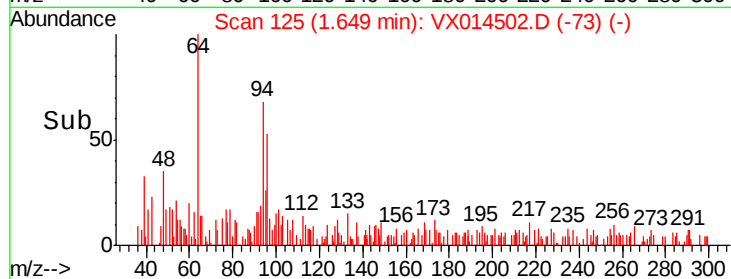
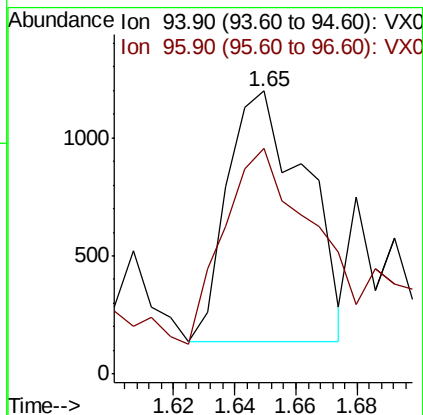
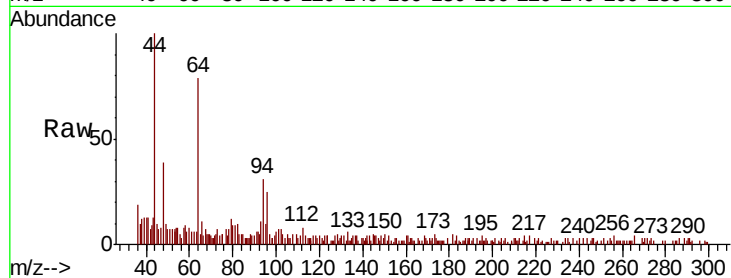
MW-A

Tot Ion: 94 Resp: 1880

Ion Ratio Lower Upper

94 100

96 77.7 74.2 111.2



#6

Chloroethane

Concen: 1.575 ug/l

RT: 1.59 min Scan# 115

Delta R.T. -0.13 min

Lab File: VX014502.D

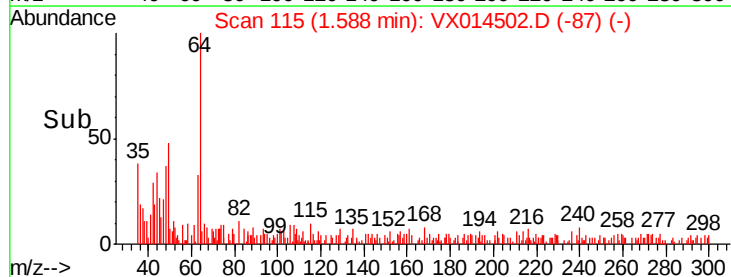
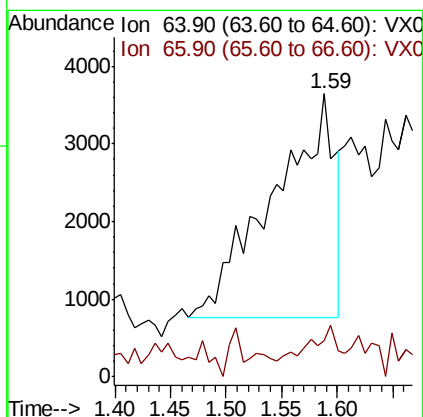
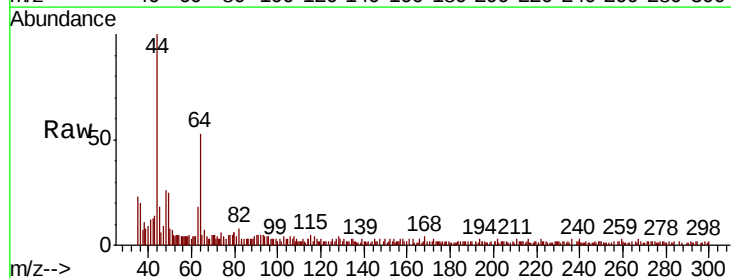
Acq: 09 Jan 2020 17:23

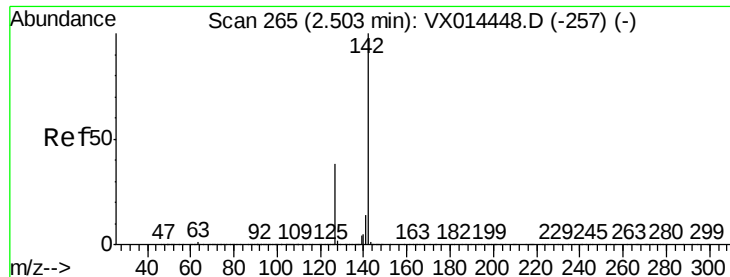
Tgt Ion: 64 Resp: 11113

Ion Ratio Lower Upper

64 100

66 7.6 25.3 37.9#

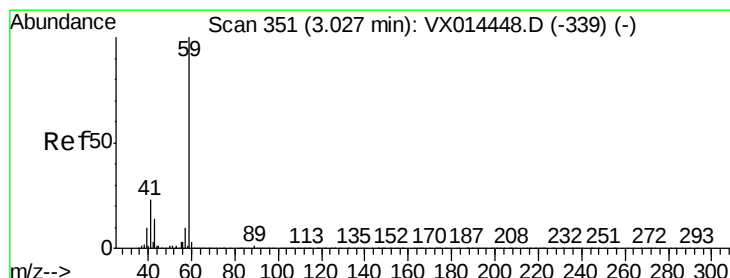
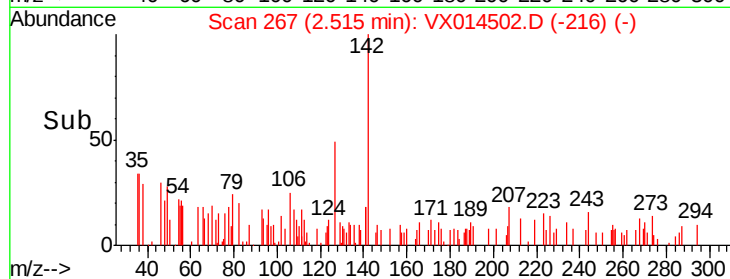
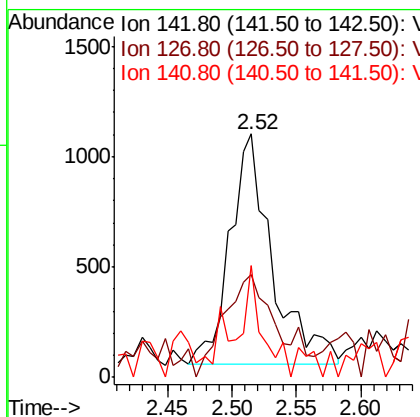
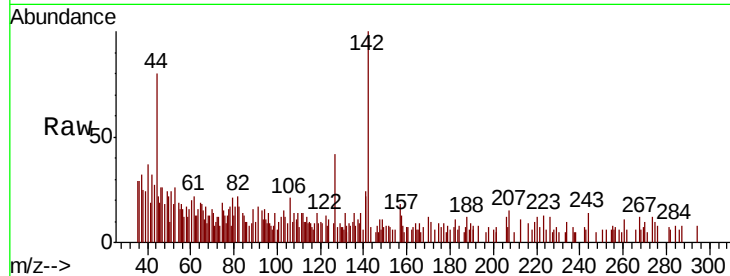




#10
Methvl Iodide
Concen: 0.396 ug/l
RT: 2.52 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

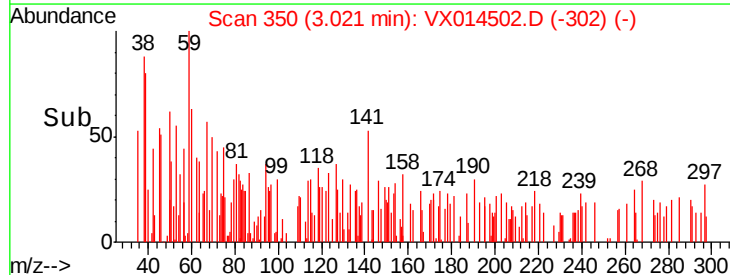
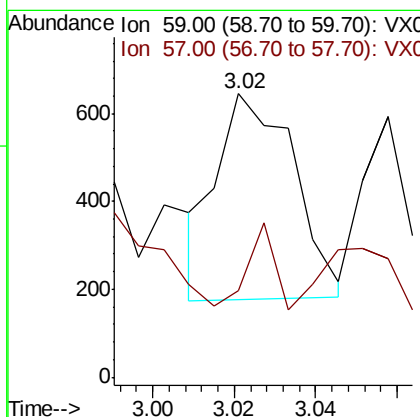
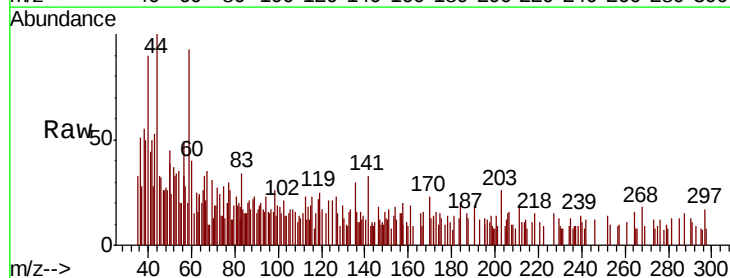
Instrument :
MSVOA_X
ClientSampled :
MW-A

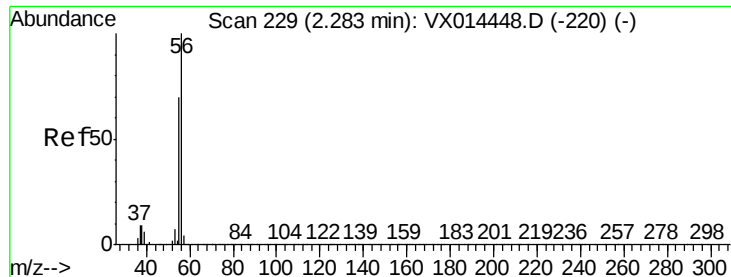
Tot Ion:142 Resp: 2367
Ion Ratio Lower Upper
142 100
127 57.5 31.2 46.8#
141 20.2 11.4 17.2#



#11
Tert butyl alcohol
Concen: 0.515 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.01 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

Tgt Ion: 59 Resp: 611
Ion Ratio Lower Upper
59 100
57 30.4 8.5 12.7#

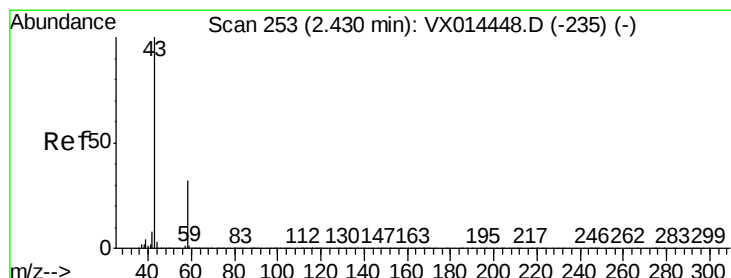
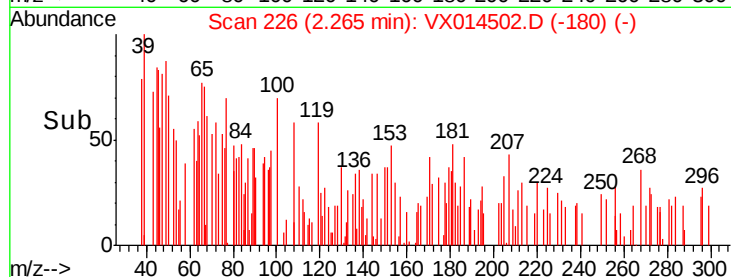
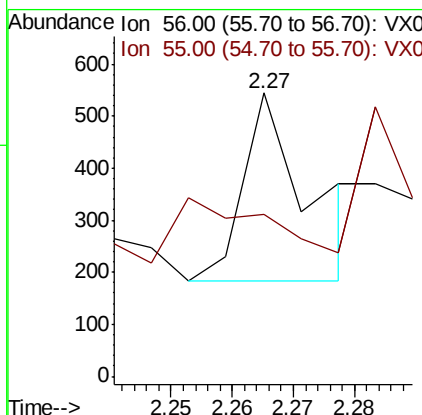
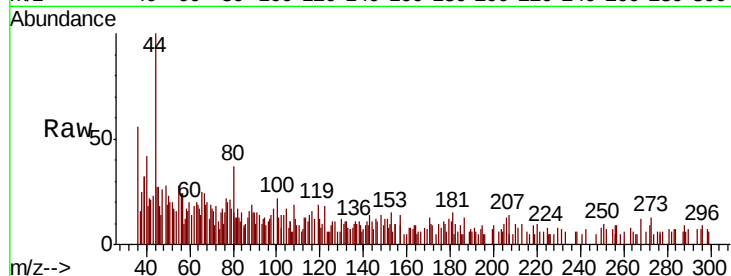




#13
Acrolein
Concen: 0.279 ug/l
RT: 2.27 min Scan# 226
Delta R.T. -0.02 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

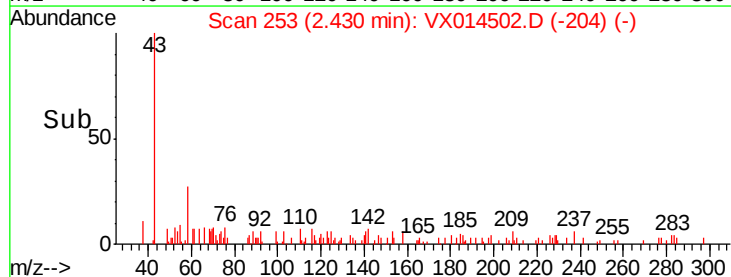
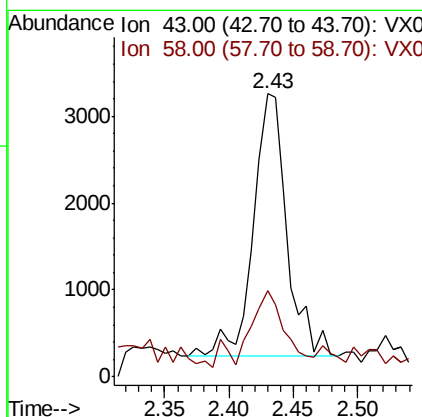
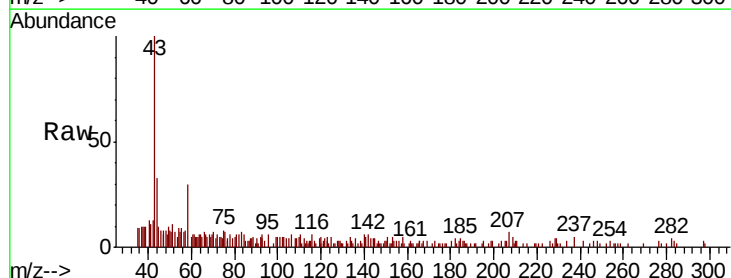
Instrument :
MSVOA_X
ClientSampled :
MW-A

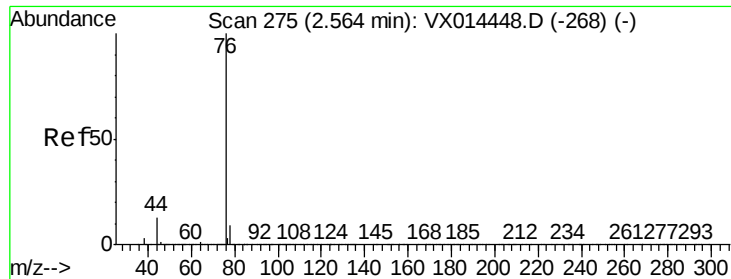
Tot Ion: 56 Resp: 265
Ion Ratio Lower Upper
56 100
55 49.1 55.0 82.6#



#16
Acetone
Concen: Below Cal
RT: 2.43 min Scan# 253
Delta R.T. 0.00 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

Tgt Ion: 43 Resp: 5451
Ion Ratio Lower Upper
43 100
58 25.8 25.4 38.0





#17

Carbon Disulfide

Concen: 0.284 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampled :

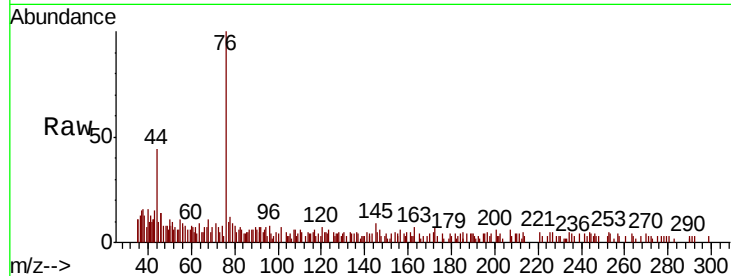
MW-A

Tot Ion: 76 Resp: 3982

Ion Ratio Lower Upper

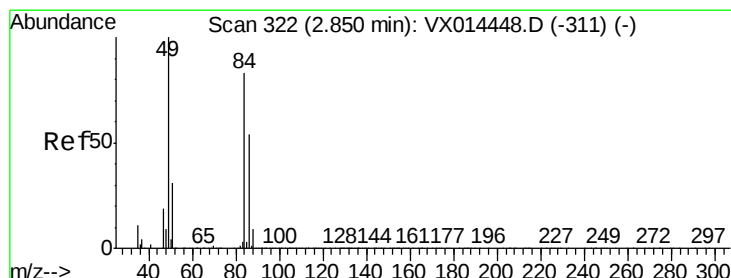
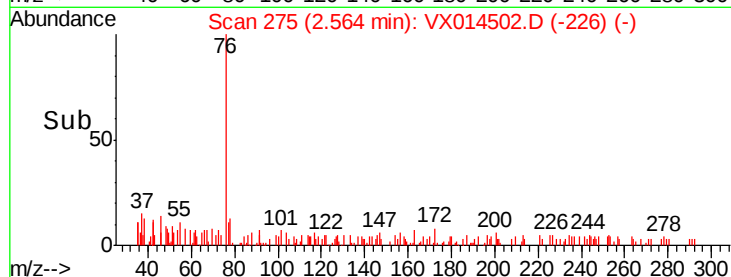
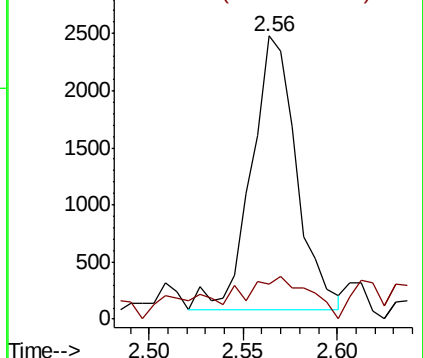
76 100

78 13.3 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.267 ug/l

RT: 2.86 min Scan# 323

Delta R.T. 0.01 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Tgt Ion: 84 Resp: 1523

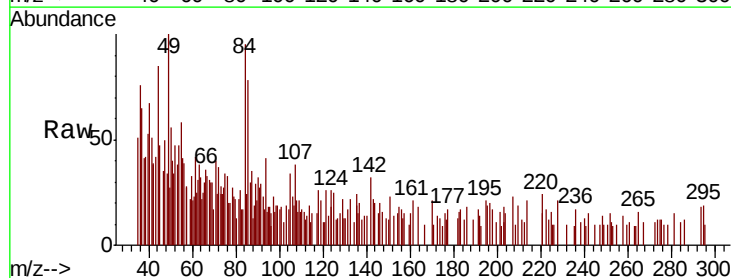
Ion Ratio Lower Upper

84 100

49 101.9 95.8 143.8

51 39.6 30.2 45.4

86 84.2 51.8 77.6#

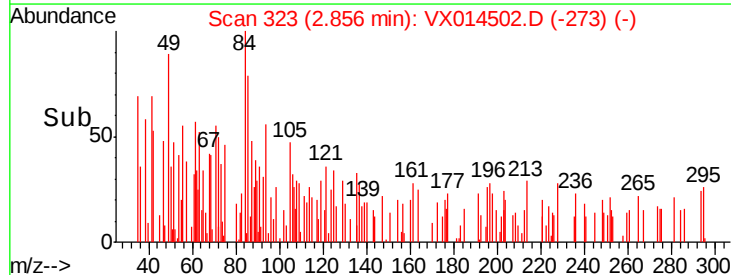
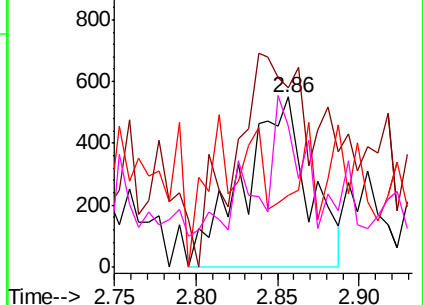


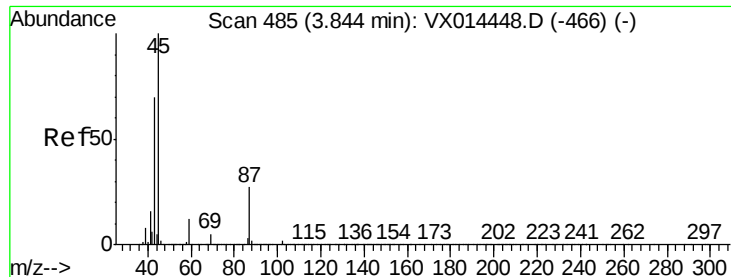
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#22

Diisopropyl ether

Concen: 0.324 ug/l

RT: 3.85 min Scan# 486

Delta R.T. 0.01 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampled :

MW-A

Tot Ion: 45 Resp: 5531

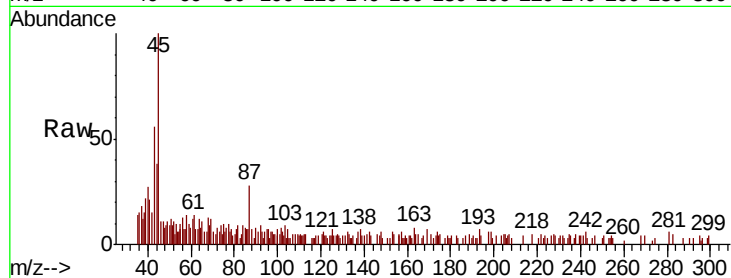
Ion Ratio Lower Upper

45 100

43 45.5 55.8 83.6#

87 26.1 21.8 32.8

59 1.7 9.1 13.7#

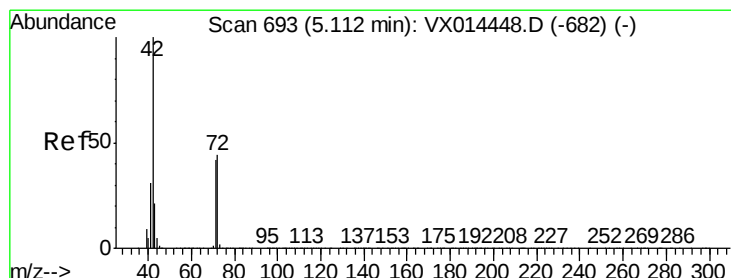
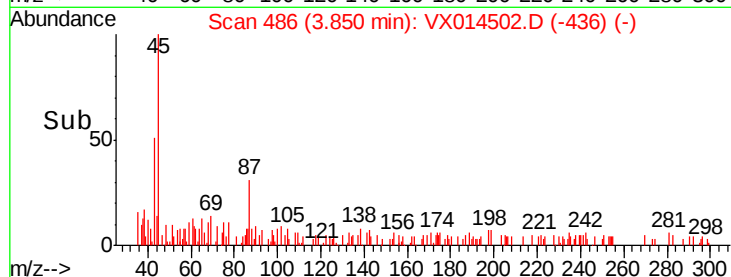
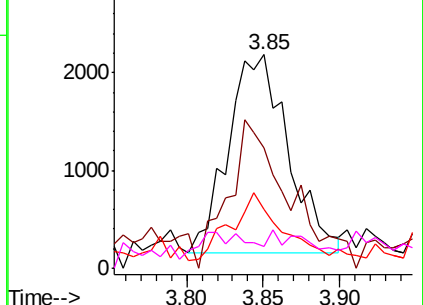


Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0



#29

Tetrahydrofuran

Concen: 0.232 ug/l

RT: 4.95 min Scan# 666

Delta R.T. -0.16 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

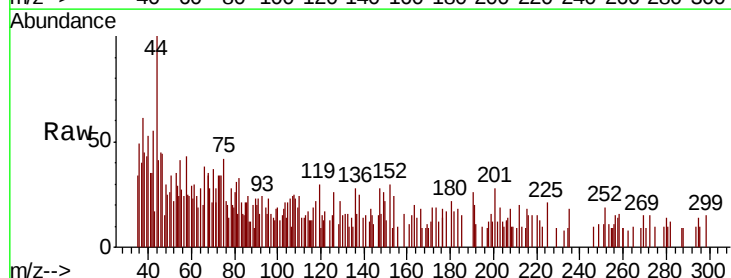
Tgt Ion: 42 Resp: 583

Ion Ratio Lower Upper

42 100

72 45.5 36.2 54.4

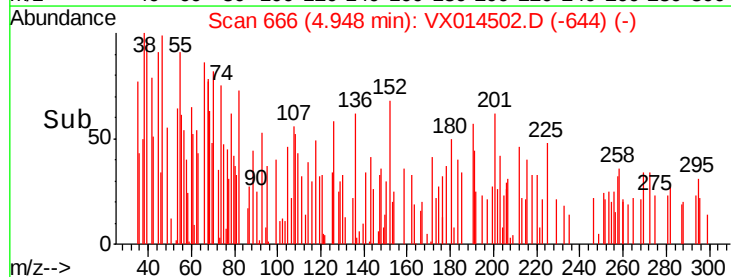
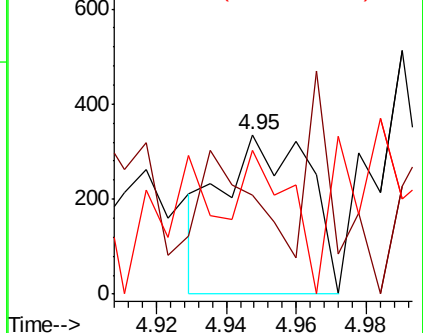
71 46.5 34.1 51.1

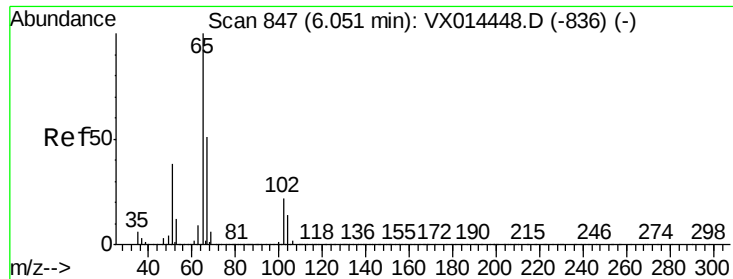


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.184 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

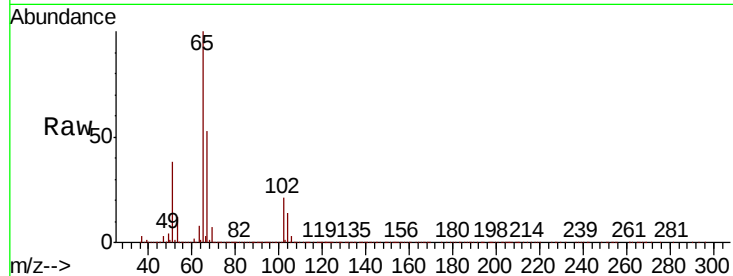
MW-A

Tot Ion: 65 Resp: 279349

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.05

120000

100000

80000

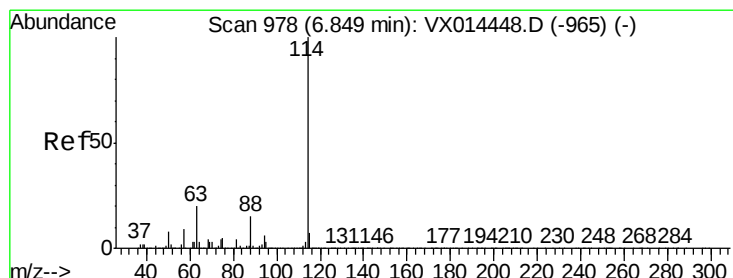
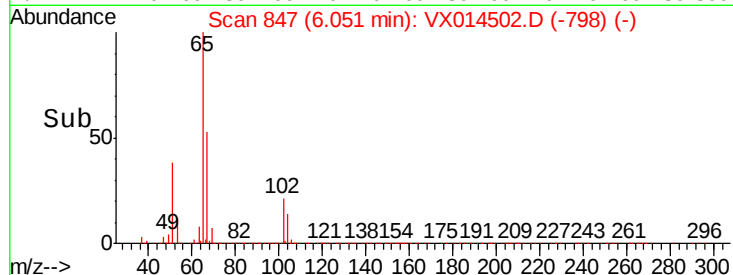
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

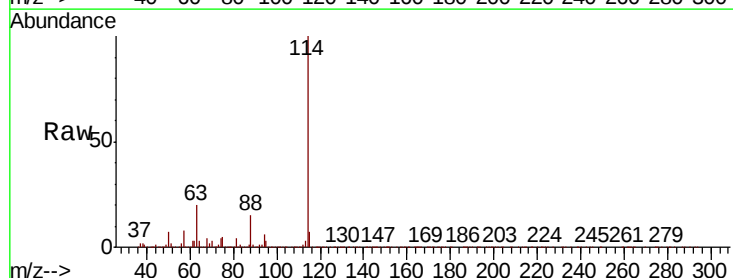
Tgt Ion: 114 Resp: 786917

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.6

88 15.4 0.0 30.8



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

6.85

400000

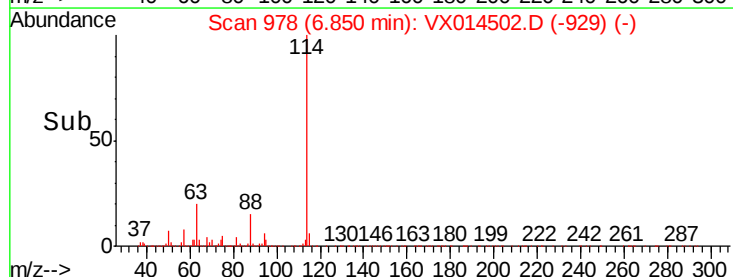
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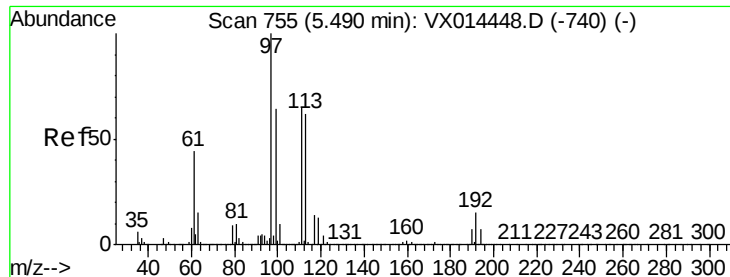
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 49.167 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

MW-A

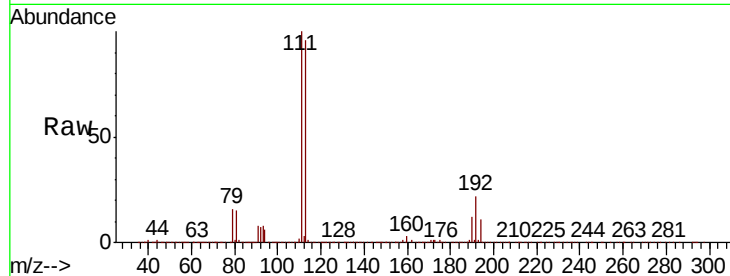
Tot Ion:113 Resp: 234210

Ion Ratio Lower Upper

113 100

111 102.7 81.5 122.3

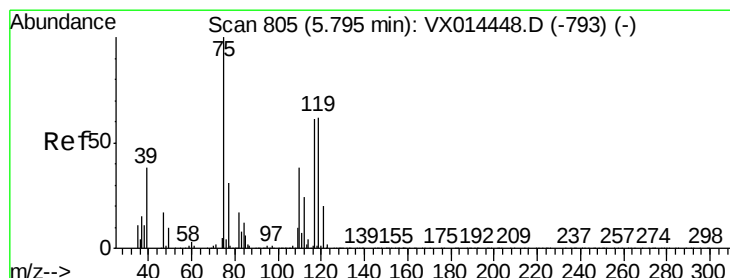
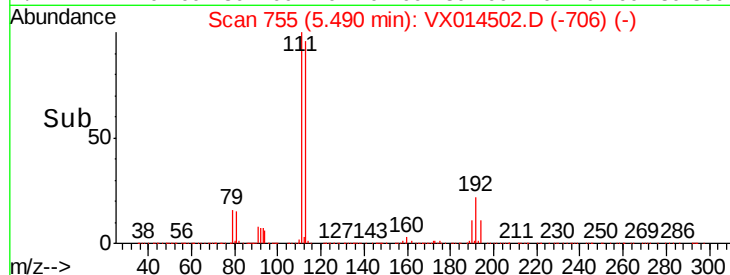
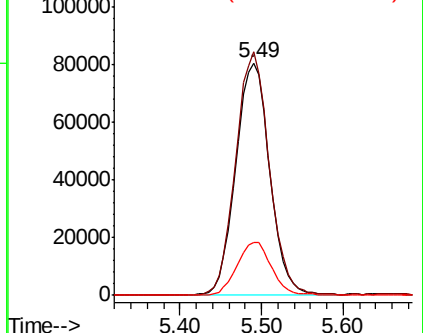
192 23.4 19.2 28.8



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: 4.750 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.15 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

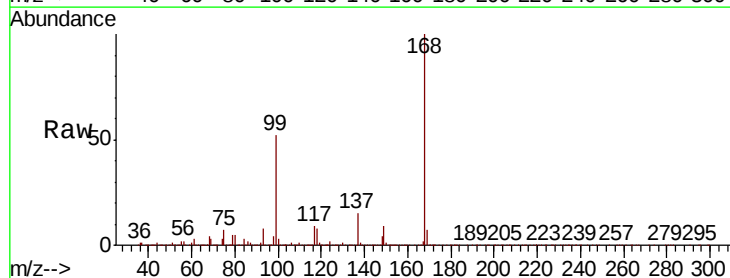
Tgt Ion: 75 Resp: 35150

Ion Ratio Lower Upper

75 100

110 0.0 18.6 55.8#

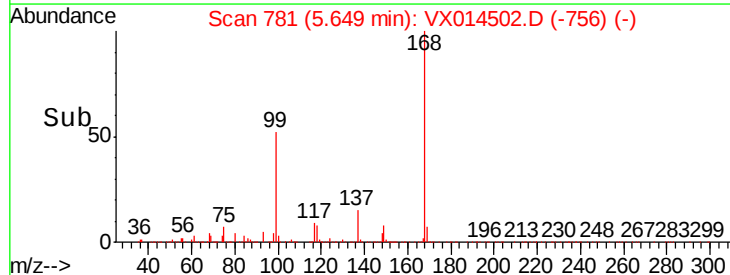
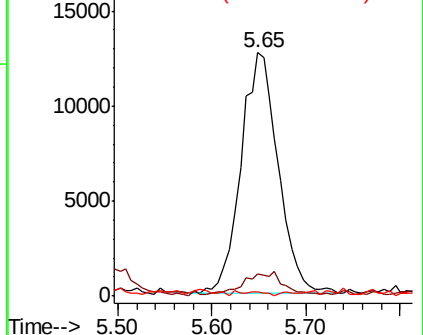
77 0.8 24.5 36.7#

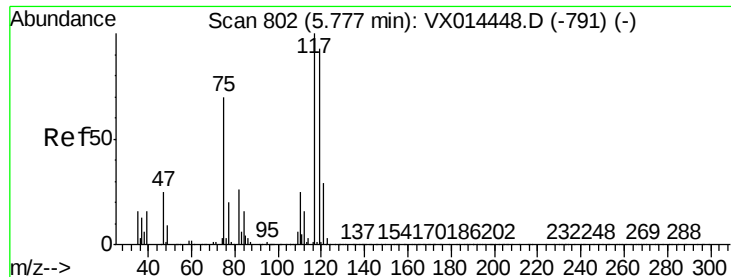


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.632 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

MW-A

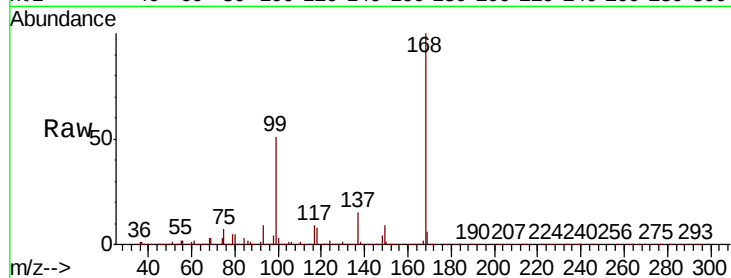
Tot Ion:117 Resp: 45162

Ion Ratio Lower Upper

117 100

119 4.4 73.8 110.8#

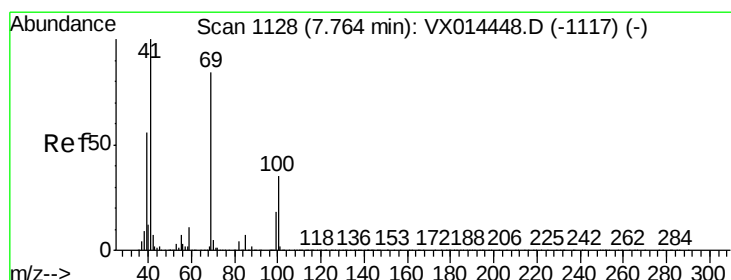
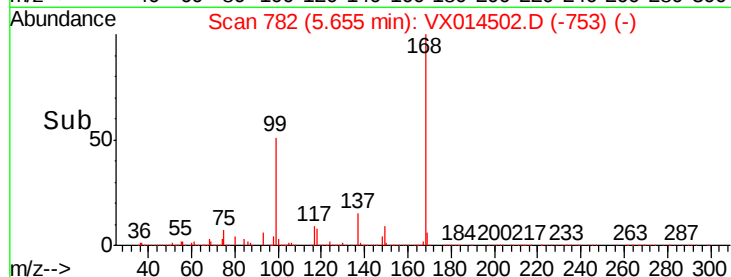
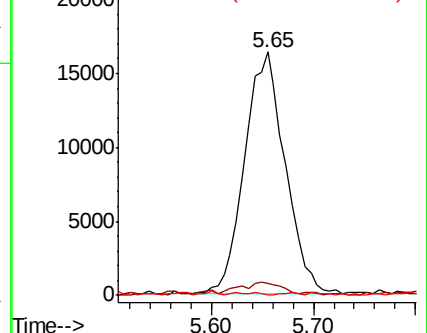
121 0.1 23.4 35.0#



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



#48

Methyl methacrylate

Concen: 0.225 ug/l

RT: 7.76 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

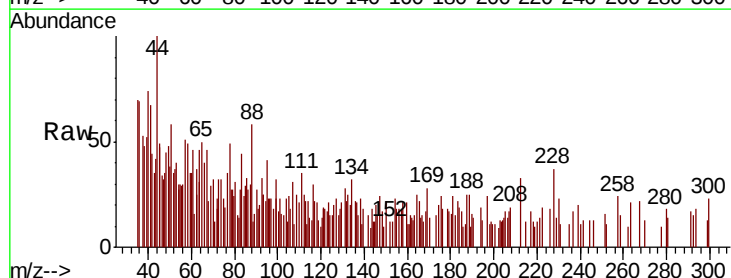
Tgt Ion: 41 Resp: 1399

Ion Ratio Lower Upper

41 100

69 17.2 65.5 98.3#

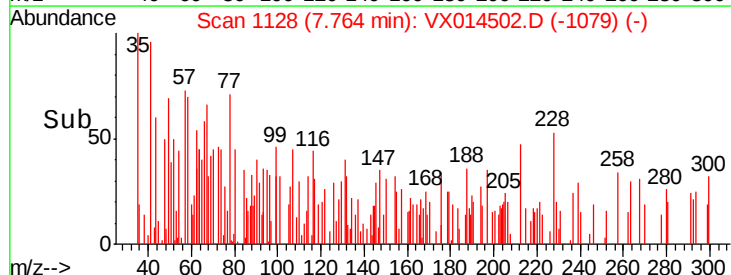
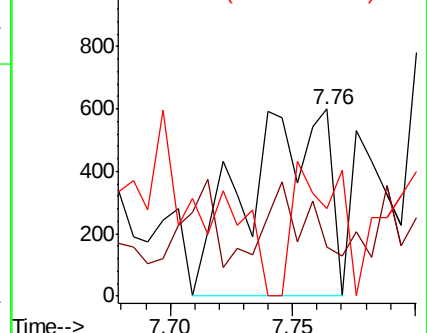
39 37.8 43.9 65.9#

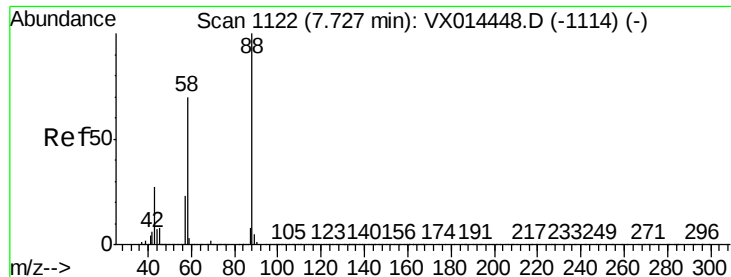


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: 2.254 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

MW-A

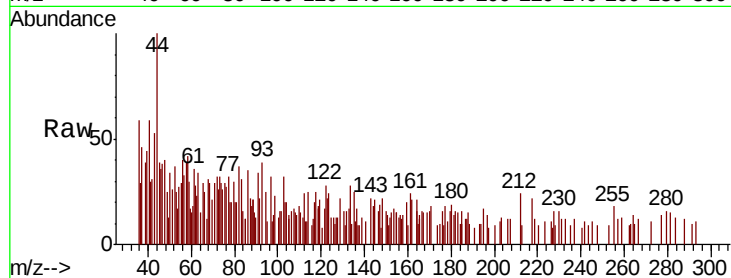
Tot Ion: 88 Resp: 297

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

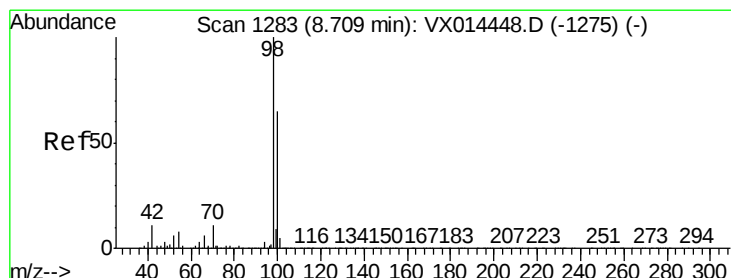
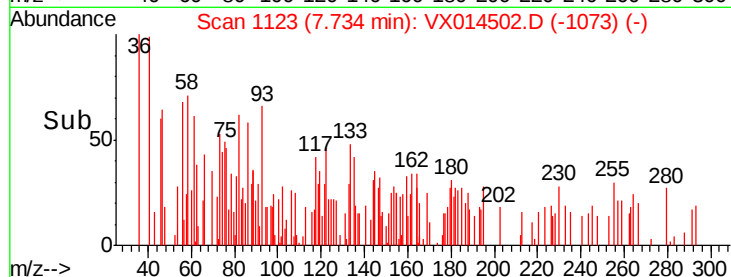
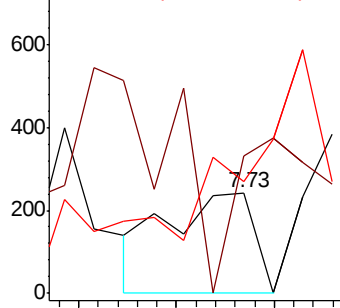
58 0.0 57.1 85.7#



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: 50.062 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014502.D

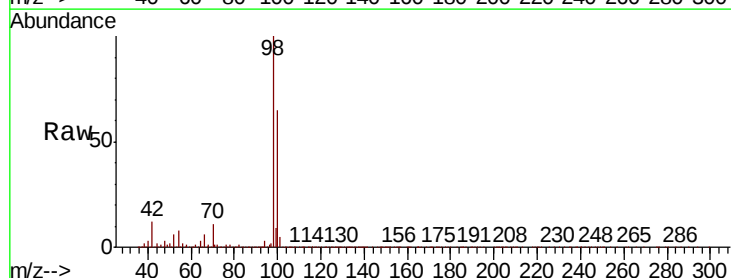
Acq: 09 Jan 2020 17:23

Tgt Ion: 98 Resp: 925438

Ion Ratio Lower Upper

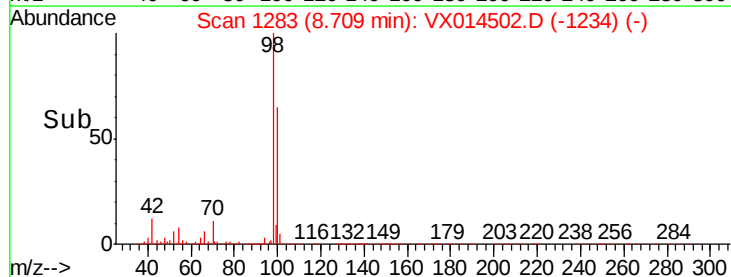
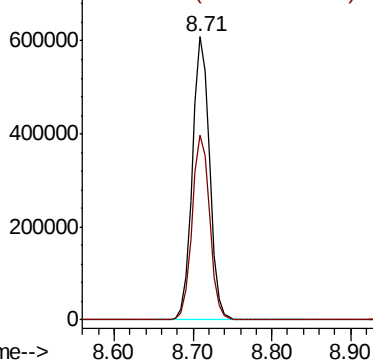
98 100

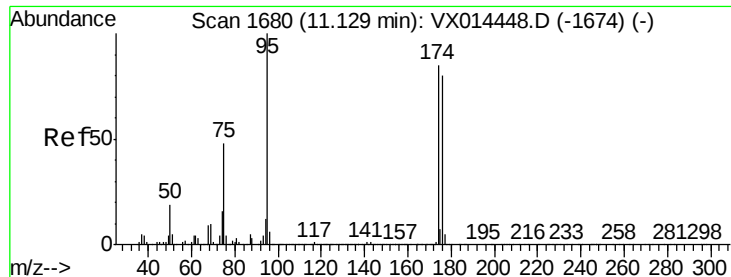
100 66.4 53.2 79.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

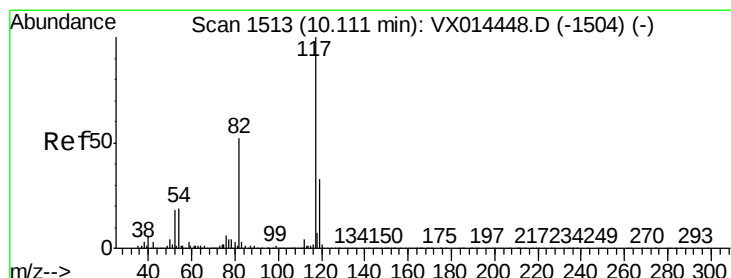
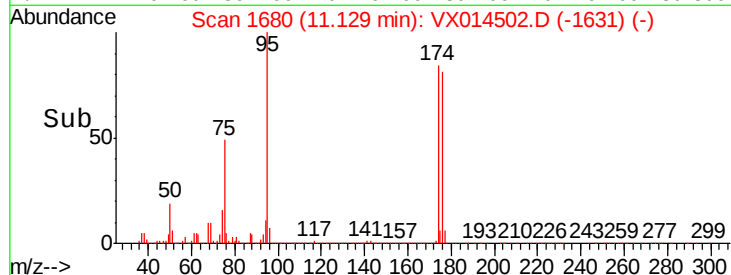
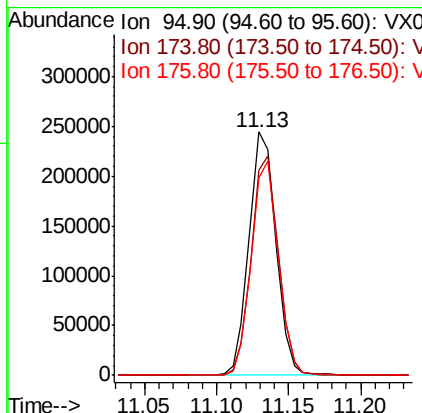
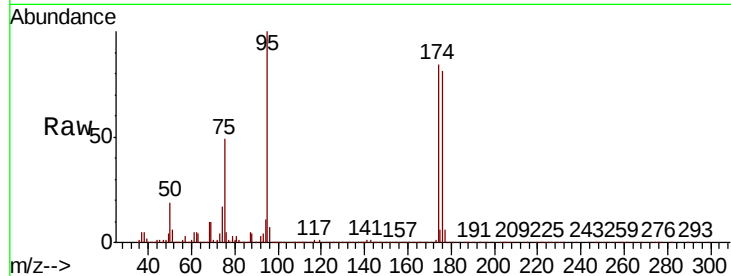




#62
4-Bromofluorobenzene
Concen: 46.395 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.00 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

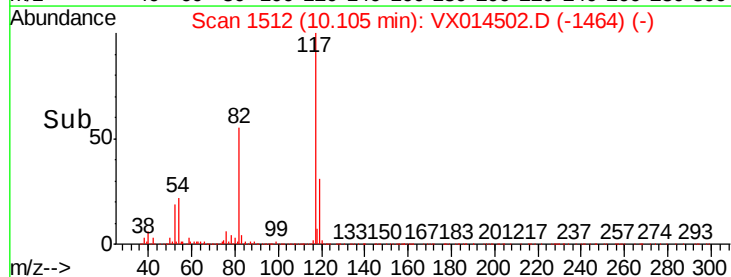
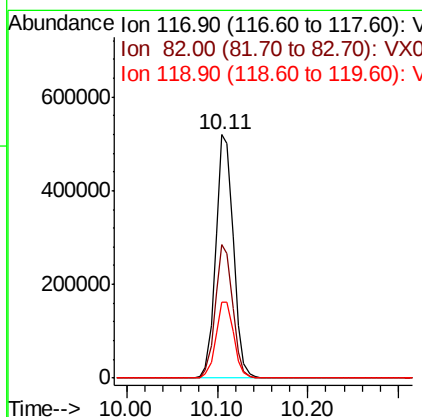
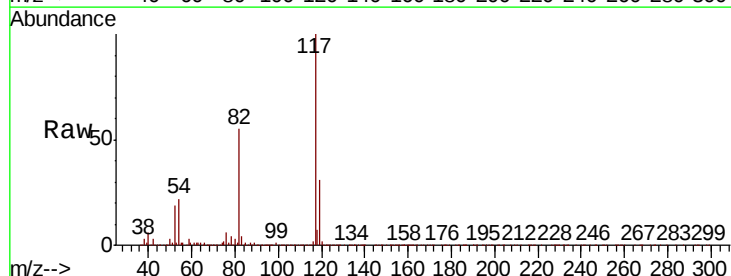
Instrument :
MSVOA_X
ClientSampleId :
MW-A

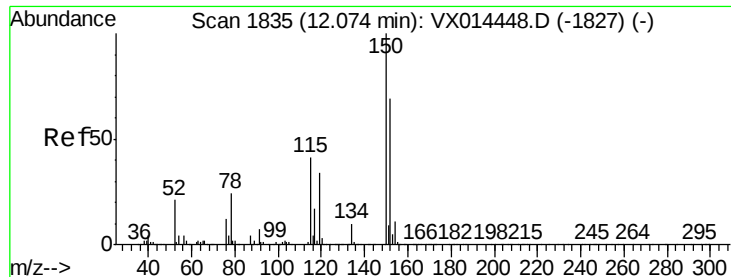
Tot Ion	Ratio	Lower	Upper
95	100		
174	90.9	0.0	180.8
176	88.0	0.0	172.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1512
Delta R.T. -0.01 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.8	41.8	62.6
119	31.2	26.2	39.4



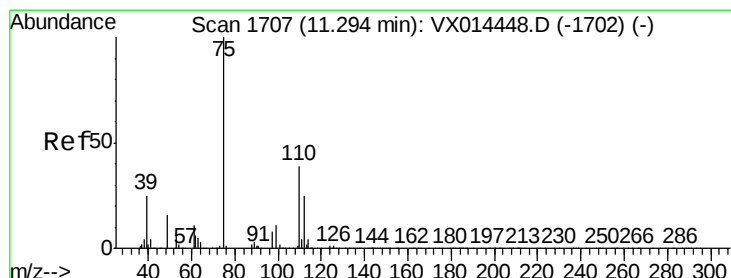
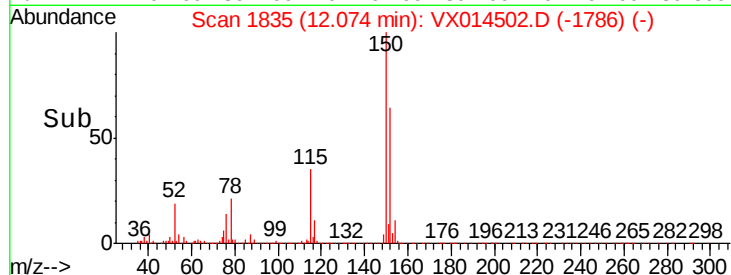
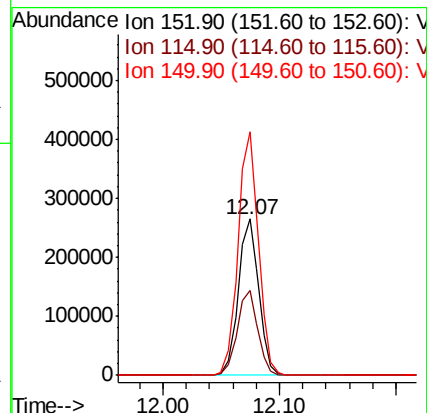
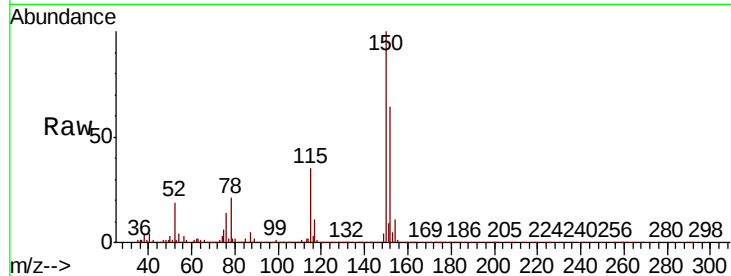


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

Instrument :
MSVOA_X
ClientSampleId :
MW-A

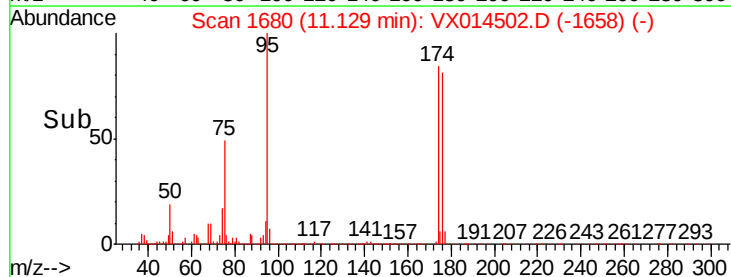
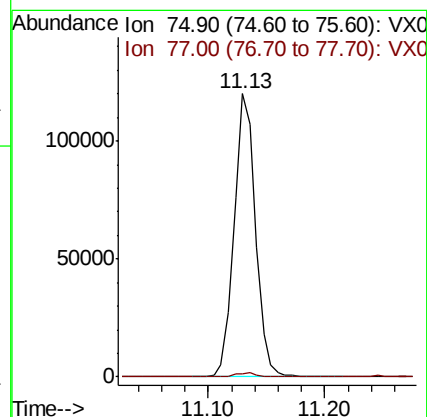
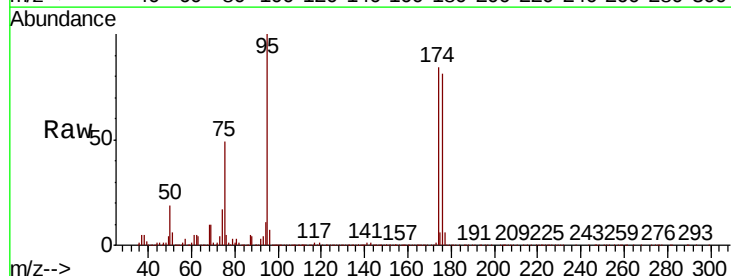
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.6	39.5	118.3
150	155.5	0.0	350.2

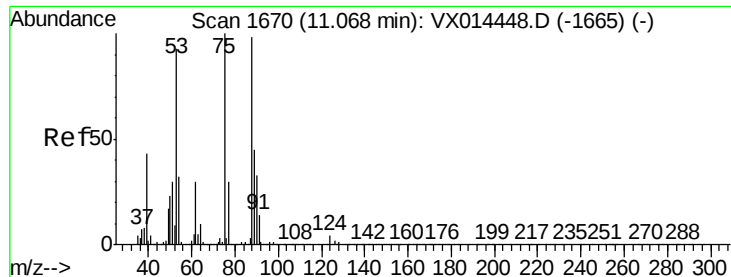


#76

1,2,3-Trichloropropane
Concen: 22.955 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.16 min
Lab File: VX014502.D
Acq: 09 Jan 2020 17:23

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.6	21.9	65.7#





#81

trans-1,4-Dichloro-2-butene

Concen: 60.690 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

MW-A

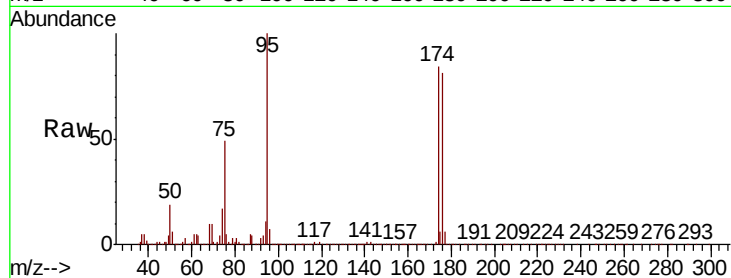
Tot Ion: 75 Resp: 153677

Ion Ratio Lower Upper

75 100

53 0.6 74.8 112.2#

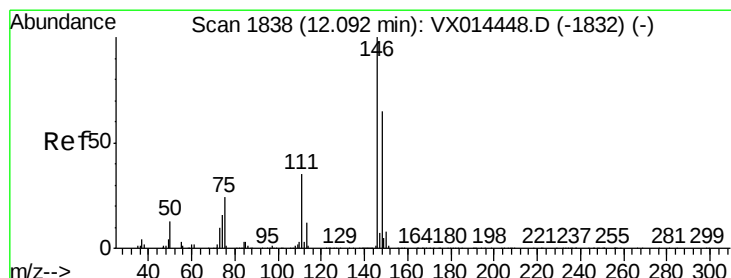
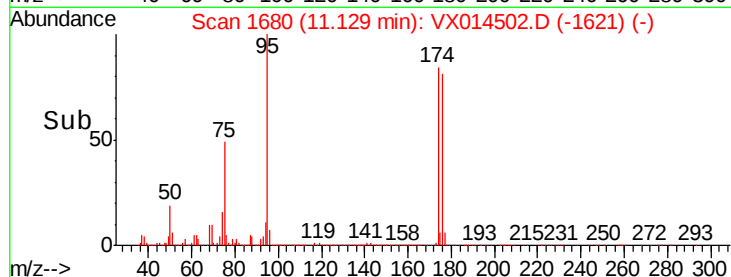
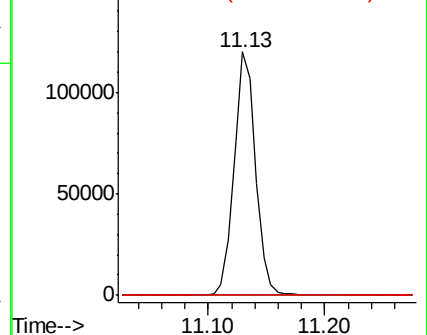
89 0.0 36.3 54.5#



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



#88

1,4-Dichlorobenzene

Concen: Below Cal

RT: 12.09 min Scan# 1838

Delta R.T. 0.00 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

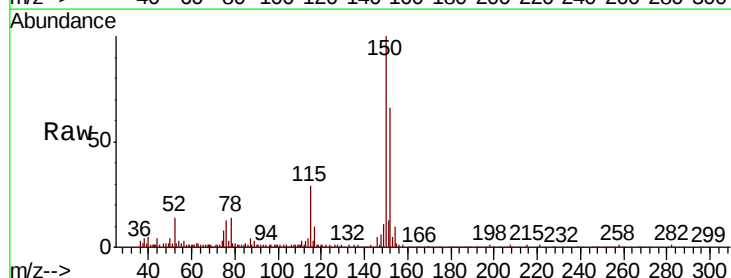
Tgt Ion: 146 Resp: 1714

Ion Ratio Lower Upper

146 100

111 271.2 18.1 54.1#

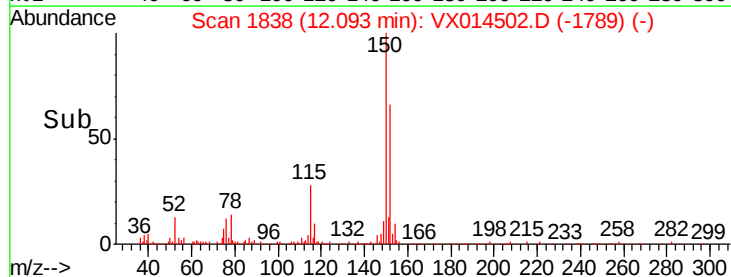
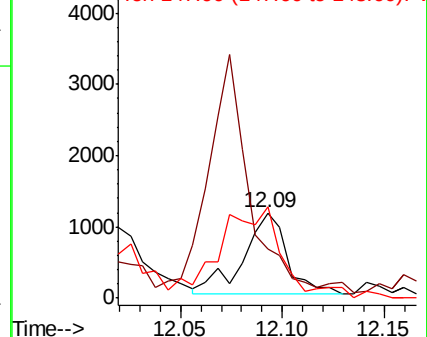
148 164.5 32.1 96.3#

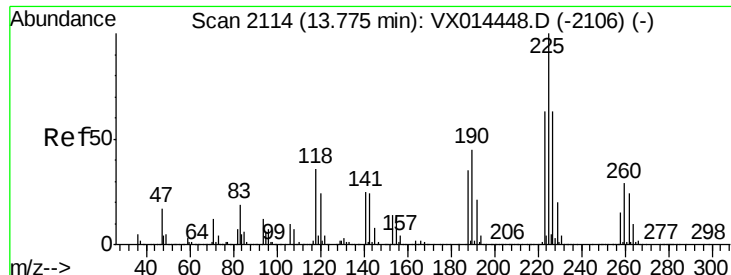


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#94

Hexachlorobutadiene

Concen: 0.292 ug/l

RT: 13.78 min Scan# 2115

Delta R.T. 0.01 min

Lab File: VX014502.D

Acq: 09 Jan 2020 17:23

Instrument :

MSVOA_X

ClientSampleId :

MW-A

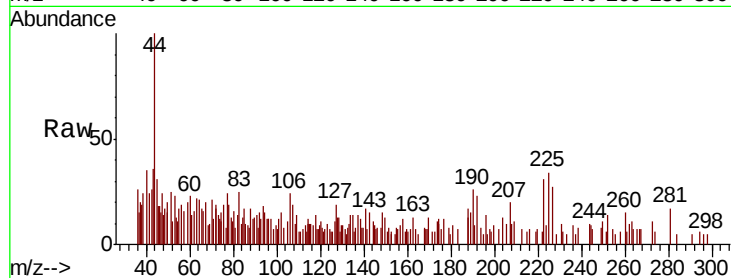
Tot Ion:225 Resp: 840

Ion Ratio Lower Upper

225 100

223 70.8 31.1 93.2

227 60.8 31.4 94.2



Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

