

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052919\
 Data File : VX009942.D
 Acq On : 29 May 2019 16:03
 Operator : JC/SP
 Sample : K3038-03RE
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522RE

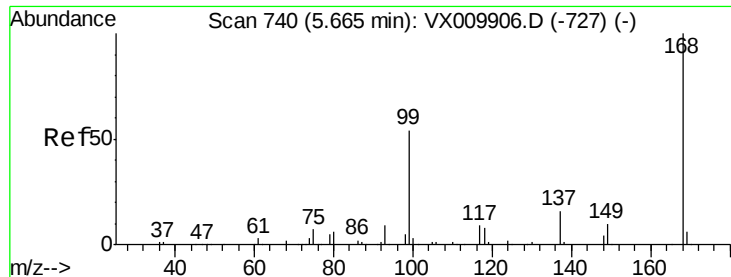
Quant Time: May 30 01:15:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	177618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	283348	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	256805	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113260	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	121879	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
35) Dibromofluoromethane	5.50	113	87720	49.24	ug/l	0.00
Spiked Amount			Recovery	=	98.48%	
50) Toluene-d8	8.71	98	364774	50.43	ug/l	0.00
Spiked Amount			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	11.13	95	123491	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	16150	6.140	ug/l	100
6) Chloroethane	1.64	64	1874	1.157	ug/l #	43
10) Methyl Iodide	2.51	142	132	4.712	ug/l #	42
11) Tert butyl alcohol	3.02	59	1991	3.224	ug/l #	82
13) Acrolein	2.30	56	172	21.457	ug/l #	14
16) Acetone	2.45	43	1215	0.838	ug/l #	79
17) Carbon Disulfide	2.57	76	652	0.503	ug/l #	56
27) cis-1,2-Dichloroethene	4.60	96	15166	6.564	ug/l	90
31) Cyclohexane	5.66	56	4208	1.102	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	14264	4.962	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16726	6.733	ug/l #	15
49) 1,4-Dioxane	7.77	88	63	1.059	ug/l #	73
65) Chlorobenzene	10.13	112	8739	1.625	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	63770	23.545	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63770	58.255	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	872	0.226	ug/l #	1
91) 1,2-Dichlorobenzene	12.39	146	826	0.221	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

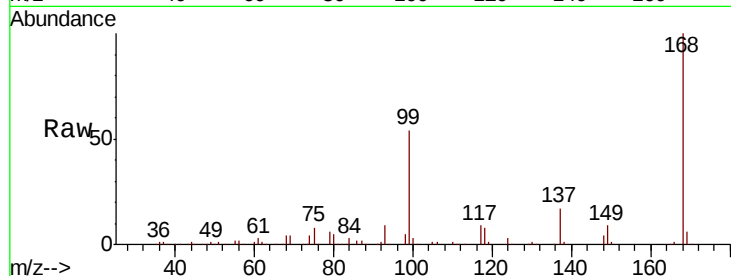
LF012MW200-190522RE

Tot Ion:168 Resp: 177618

Ion Ratio Lower Upper

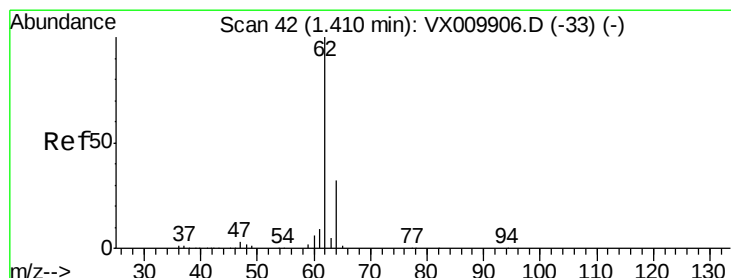
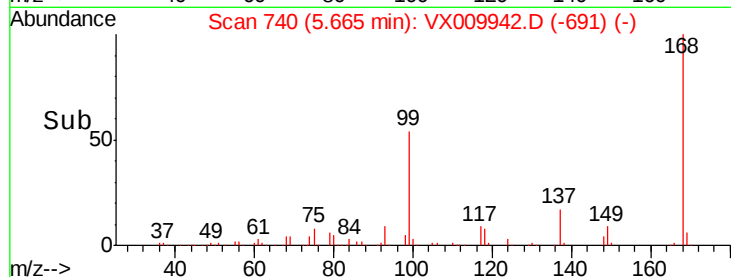
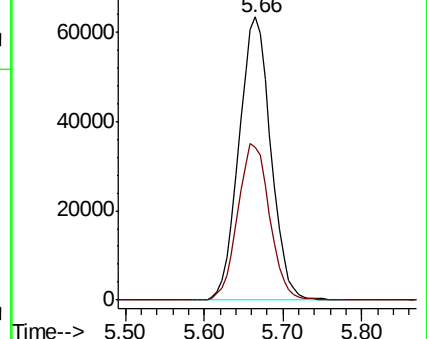
168 100

99 54.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 6.140 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX009942.D

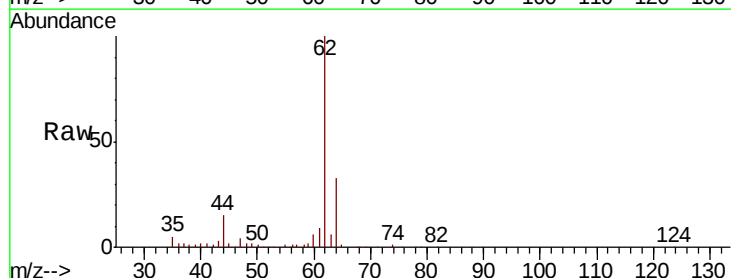
Acq: 29 May 2019 16:03

Tgt Ion: 62 Resp: 16150

Ion Ratio Lower Upper

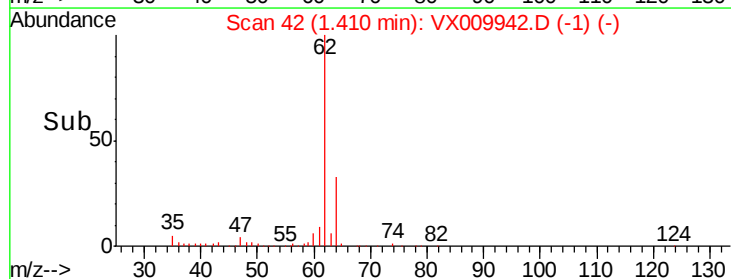
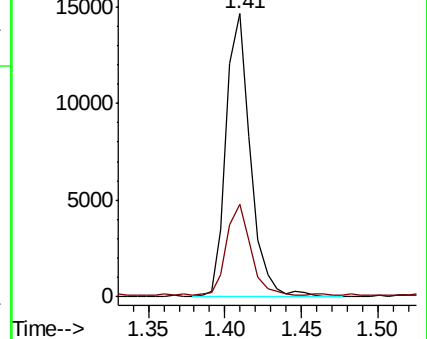
62 100

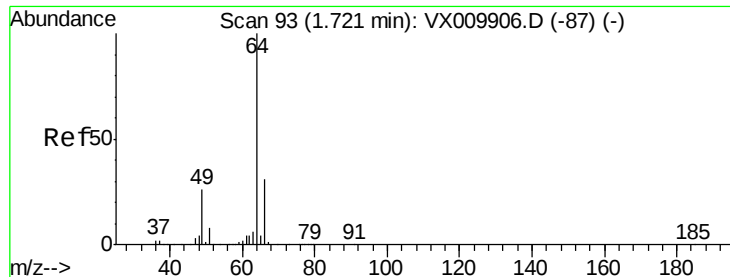
64 32.2 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#6

Chloroethane

Concen: 1.157 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.09 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

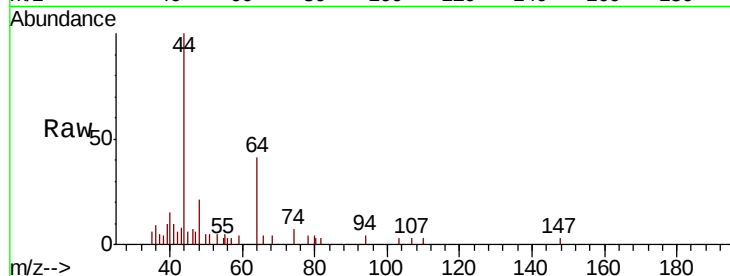
LF012MW200-190522RE

Tot Ion: 64 Resp: 1874

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1000

800

600

400

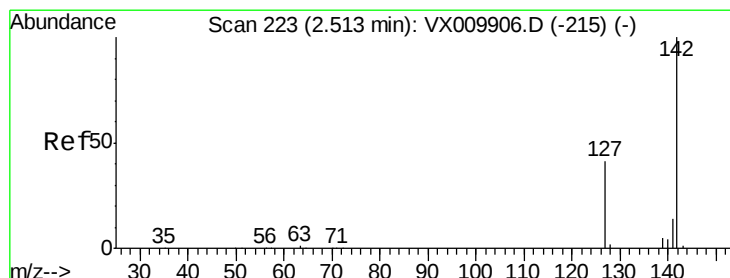
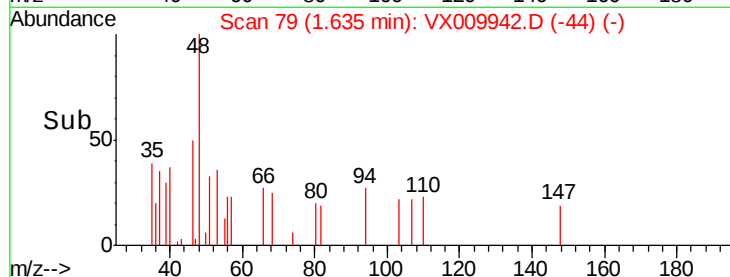
200

0

1.50 1.55 1.60 1.65

1.64

Time-->



#10

Methyl Iodide

Concen: 4.712 ug/l

RT: 2.51 min Scan# 223

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

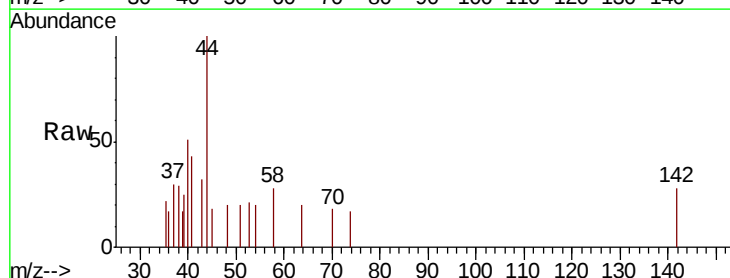
Tgt Ion: 142 Resp: 132

Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.4#

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

100

80

60

40

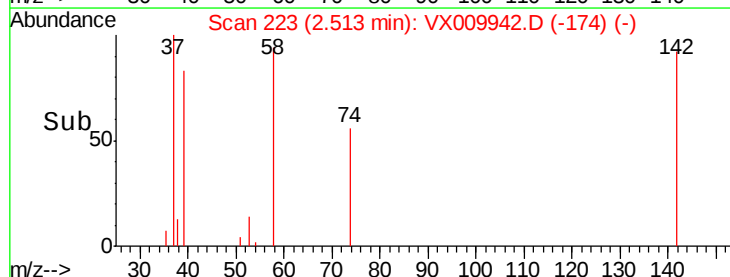
20

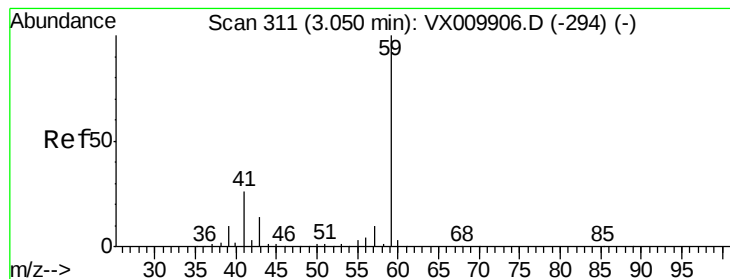
0

2.50 2.55

2.51

Time-->



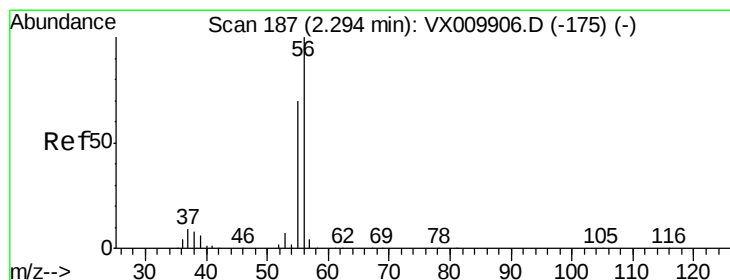
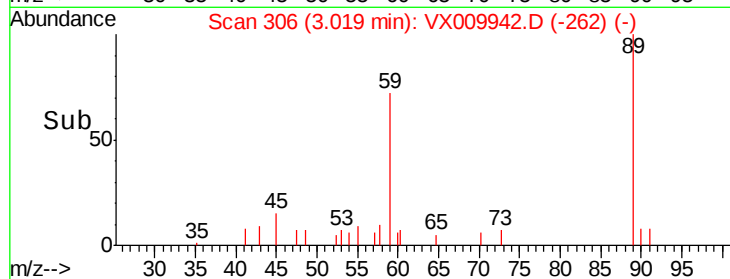
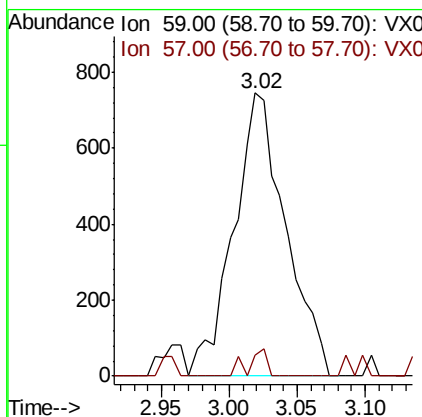
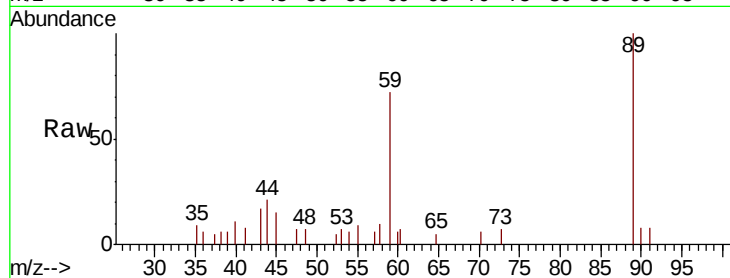


#11

Tert butyl alcohol
 Concen: 3.224 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.03 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522RE

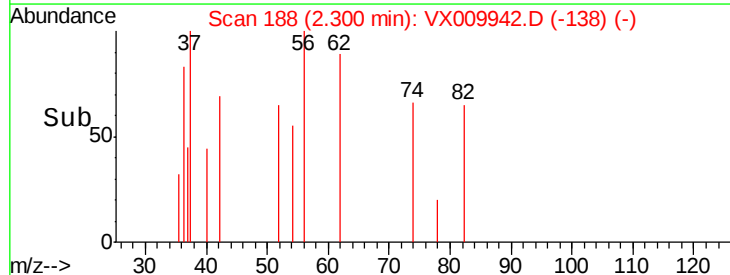
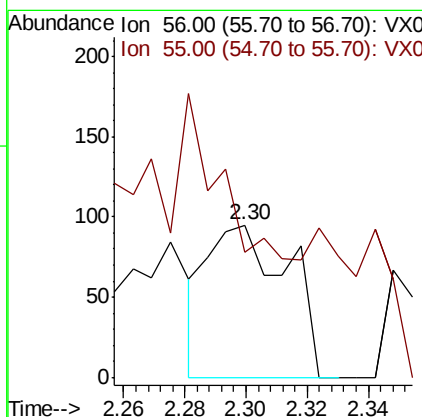
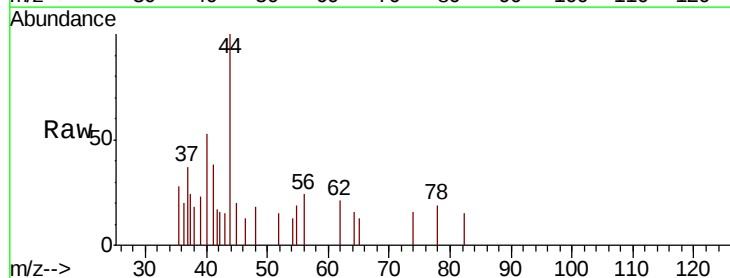
Tot Ion: 59 Resp: 1991
 Ion Ratio Lower Upper
 59 100
 57 3.3 8.2 12.2#

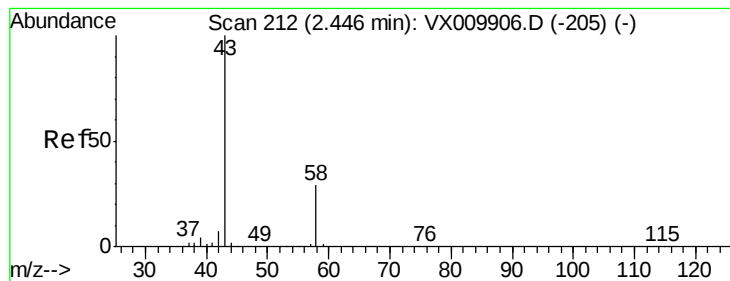


#13

Acrolein
 Concen: 21.457 ug/l
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

Tgt Ion: 56 Resp: 172
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.0 85.4#





#16

Acetone

Concen: 0.838 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

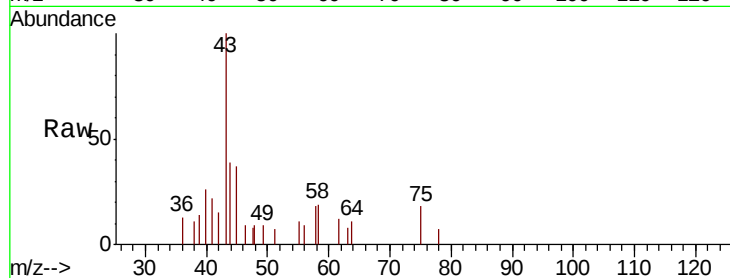
LF012MW200-190522RE

Tot Ion: 43 Resp: 1215

Ion Ratio Lower Upper

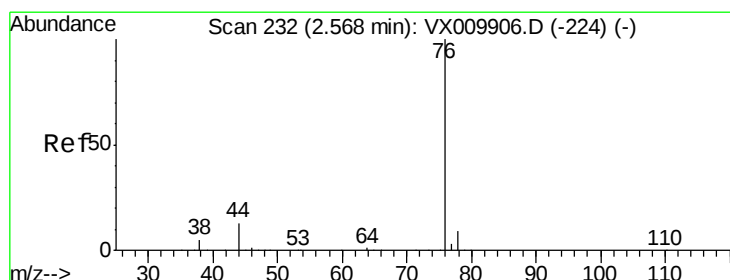
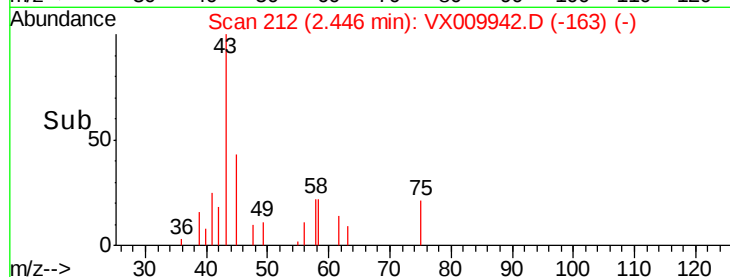
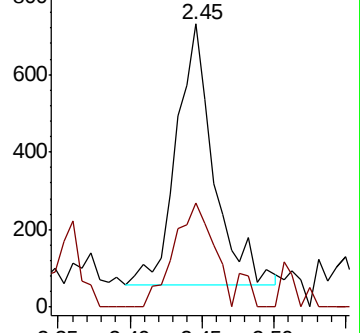
43 100

58 40.1 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.503 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.00 min

Lab File: VX009942.D

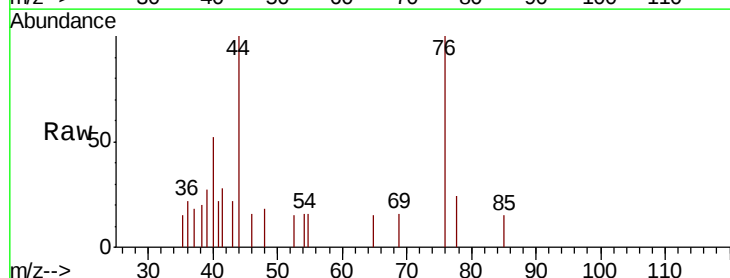
Acq: 29 May 2019 16:03

Tgt Ion: 76 Resp: 652

Ion Ratio Lower Upper

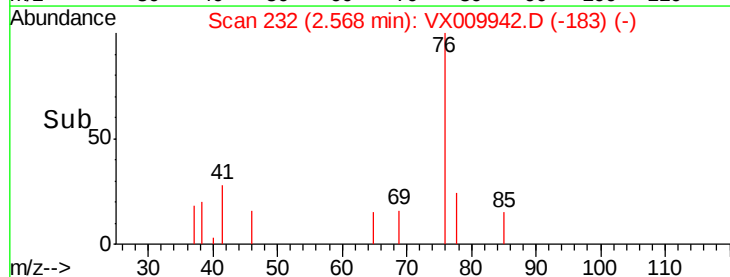
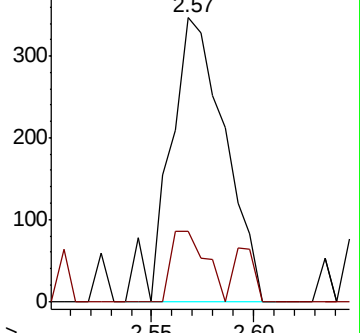
76 100

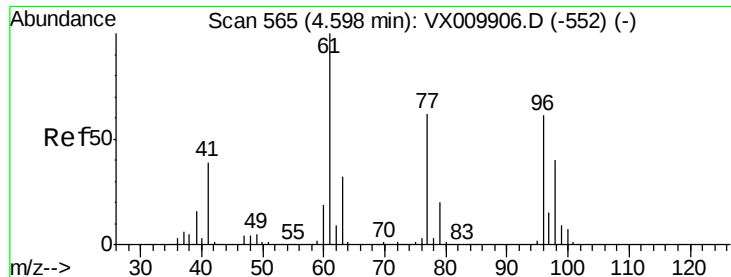
78 24.5 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



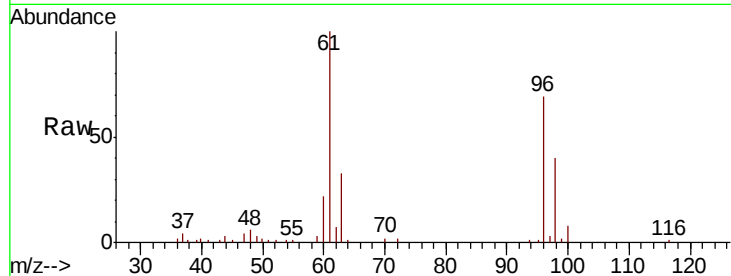


#27

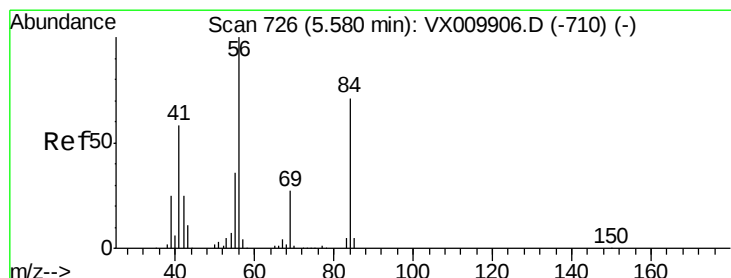
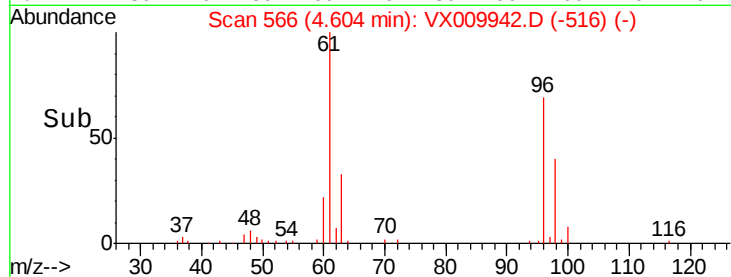
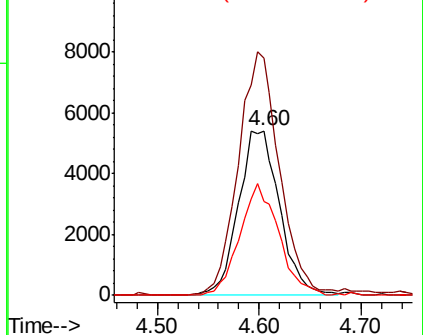
cis-1,2-Dichloroethene
 Concen: 6.564 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522RE

Tot Ion: 96 Resp: 15166
 Ion Ratio Lower Upper
 96 100
 61 148.3 0.0 334.0
 98 64.3 0.0 131.6



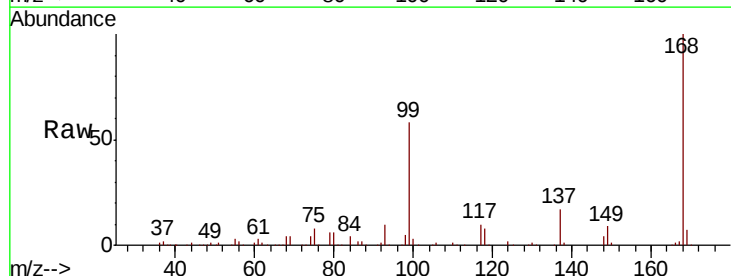
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



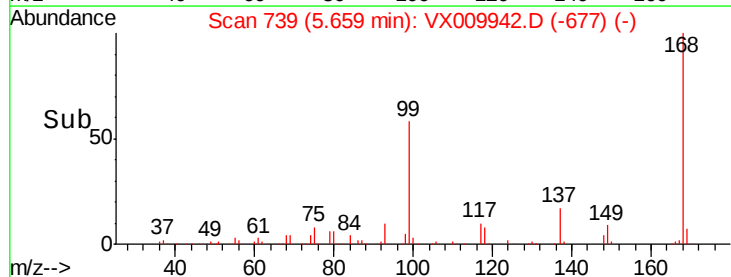
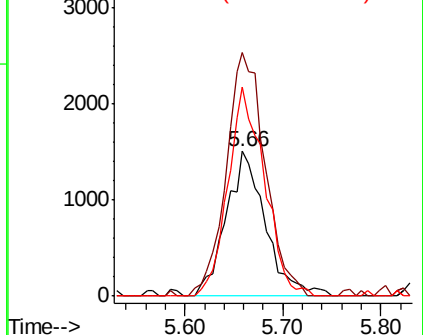
#31

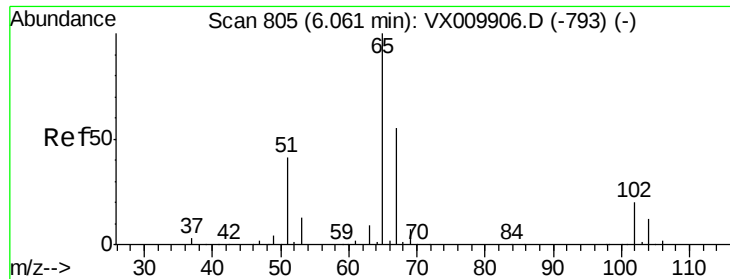
Cyclohexane
 Concen: 1.102 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. 0.08 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

Tgt Ion: 56 Resp: 4208
 Ion Ratio Lower Upper
 56 100
 69 168.4 21.6 32.4#
 84 144.4 56.8 85.2#



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

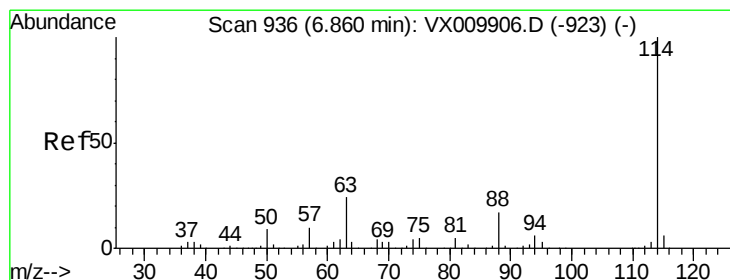
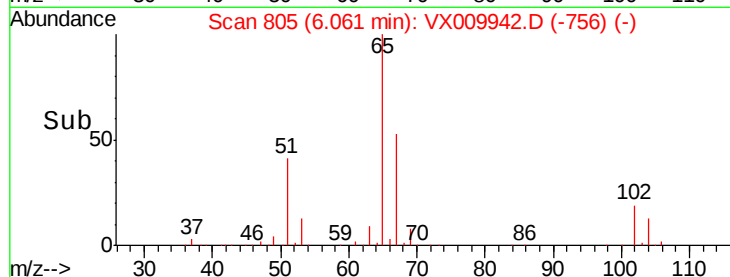
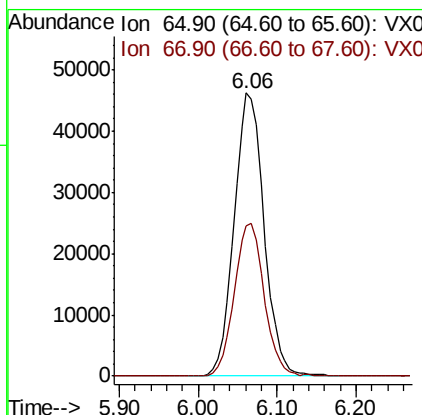
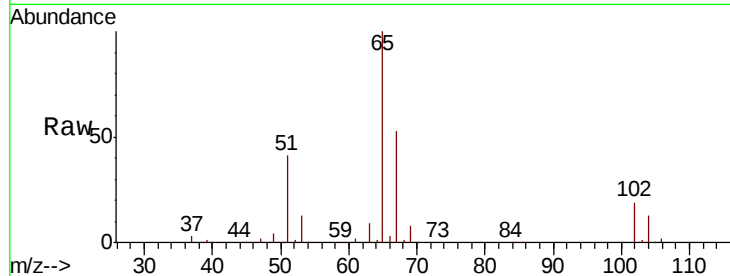




#33
 1,2-Dichloroethane-d4
 Concen: 48.577 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

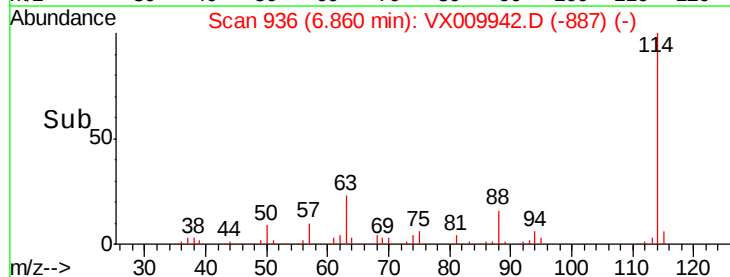
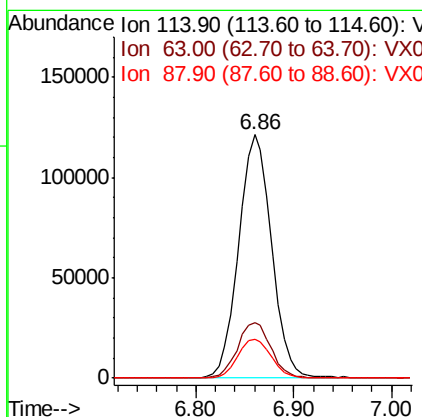
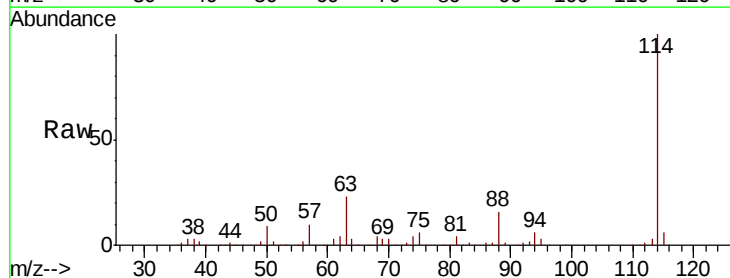
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522RE

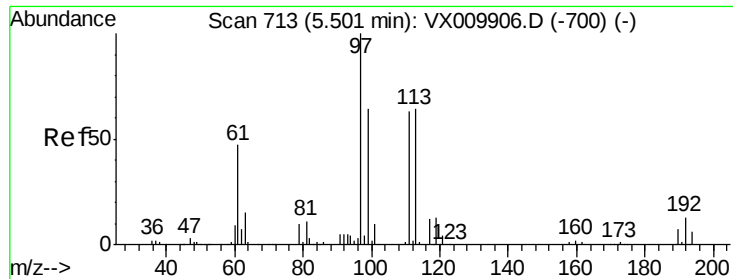
Tot Ion: 65 Resp: 121879
 Ion Ratio Lower Upper
 65 100
 67 54.2 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

Tgt Ion: 114 Resp: 283348
 Ion Ratio Lower Upper
 114 100
 63 22.8 0.0 47.4
 88 16.0 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.242 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522RE

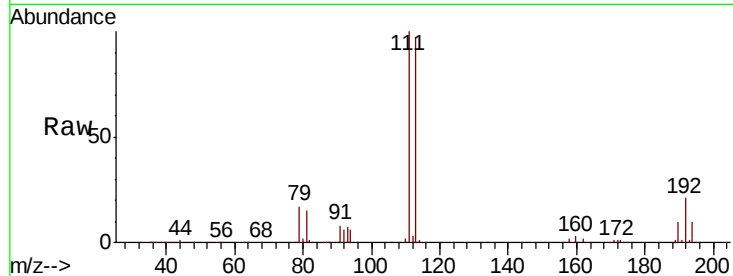
Tot Ion:113 Resp: 87720

Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.2

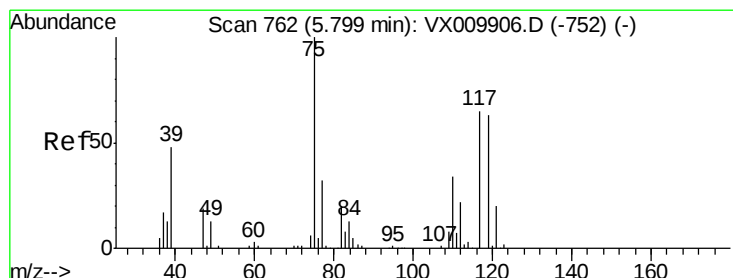
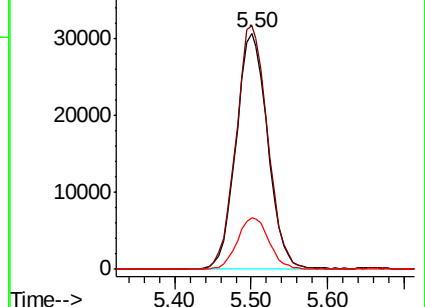
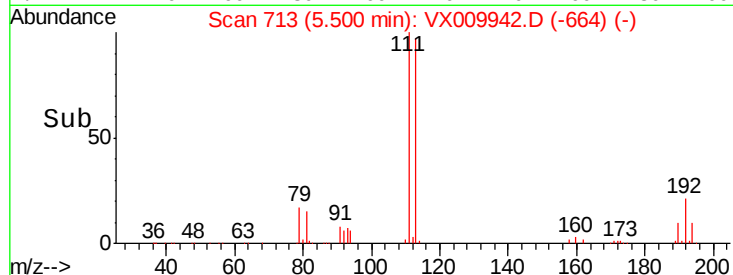
192 21.9 17.1 25.7



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: 4.962 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

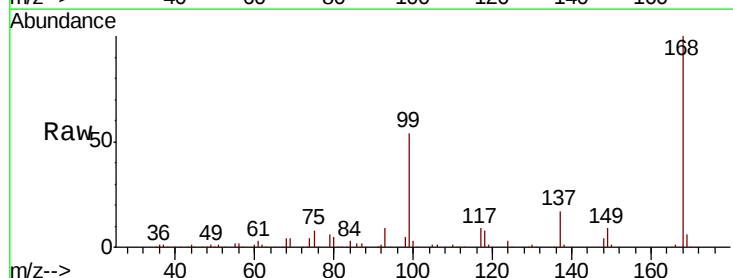
Tgt Ion: 75 Resp: 14264

Ion Ratio Lower Upper

75 100

110 9.2 16.7 50.1#

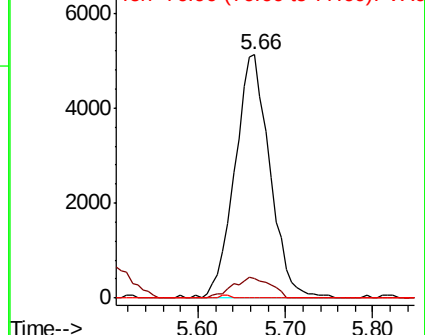
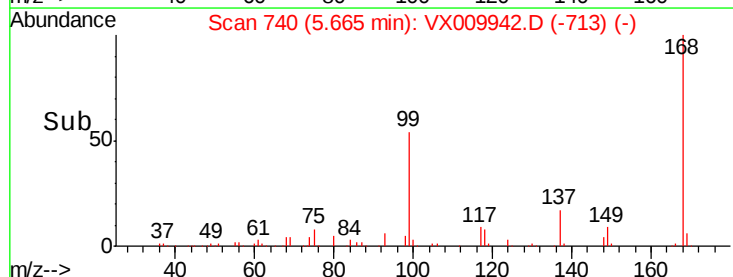
77 0.0 25.0 37.4#

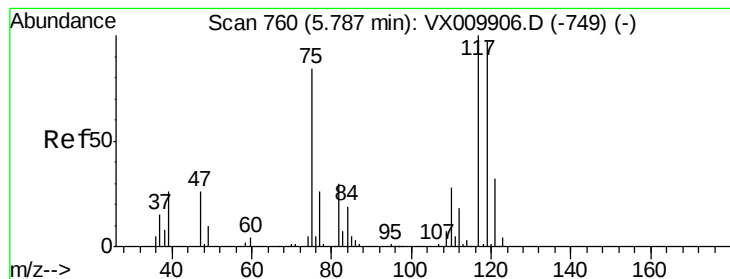


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.733 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522RE

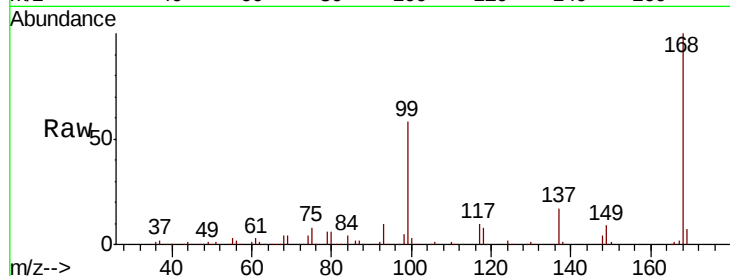
Tot Ion:117 Resp: 16726

Ion Ratio Lower Upper

117 100

119 4.3 77.3 115.9#

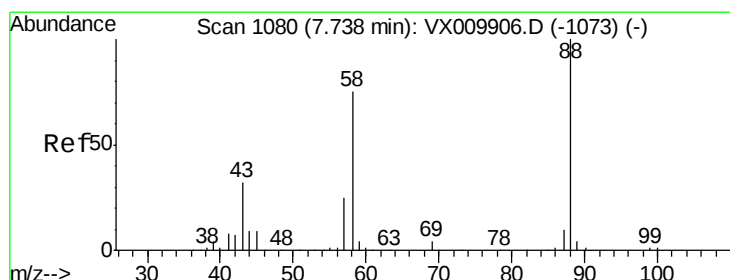
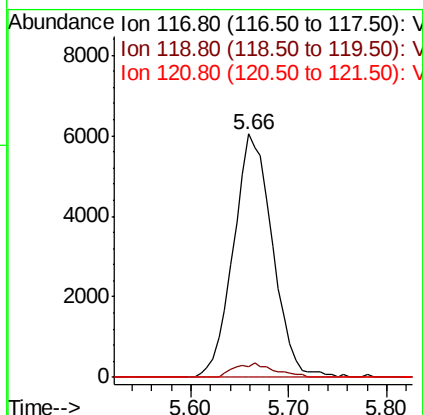
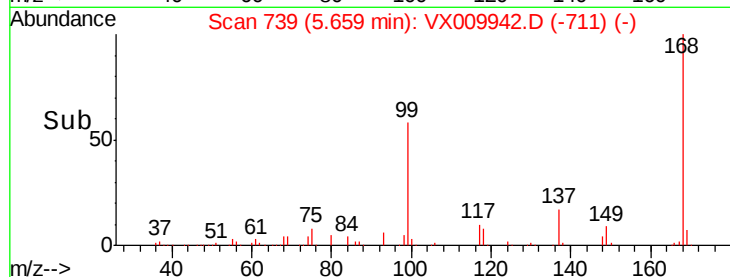
121 0.0 25.4 38.0#



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



#49

1,4-Dioxane

Concen: 1.059 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

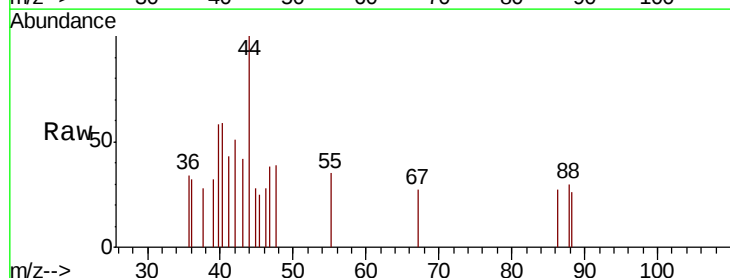
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 0.0 30.2 45.4#

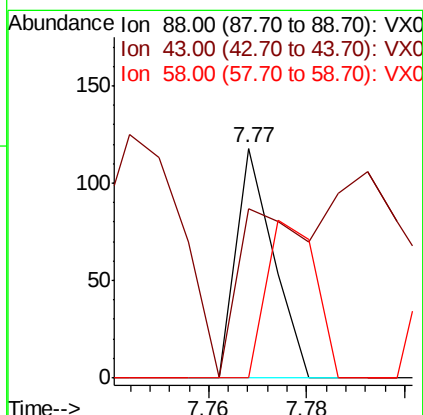
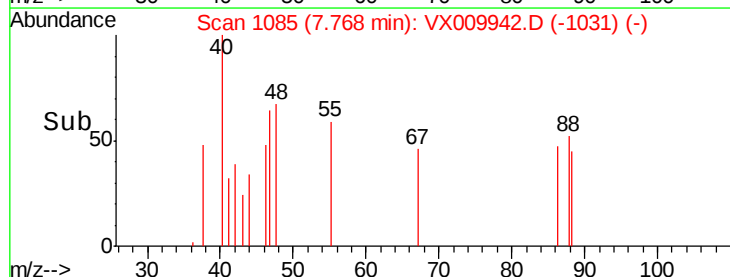
58 88.9 64.0 96.0

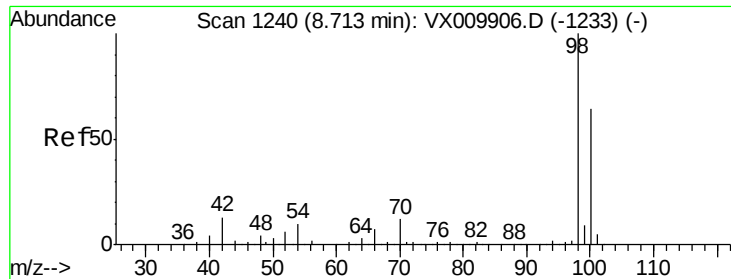


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.425 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

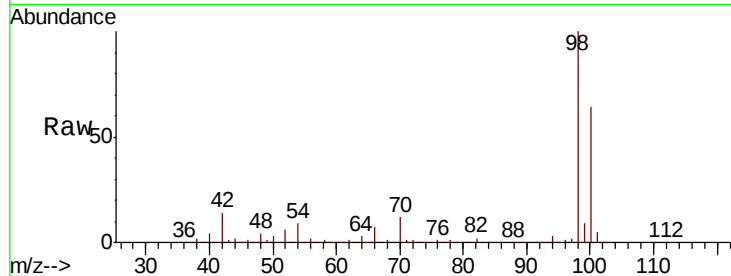
LF012MW200-190522RE

Tot Ion: 98 Resp: 364774

Ion Ratio Lower Upper

98 100

100 63.4 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

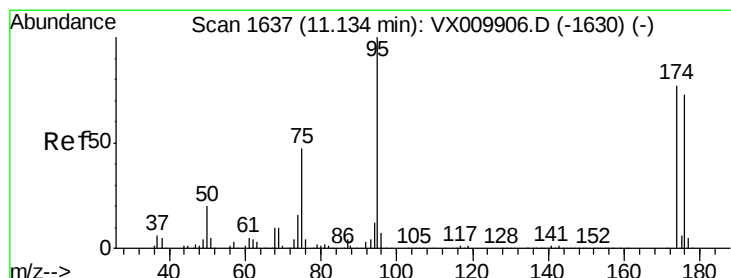
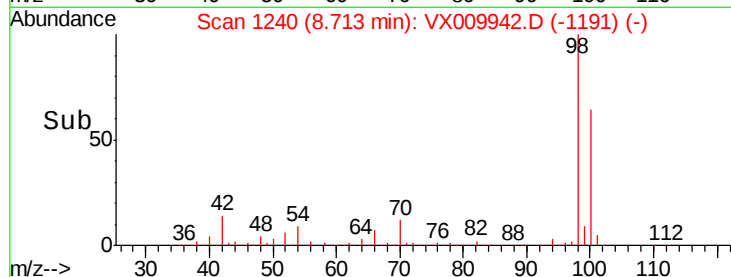
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.528 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

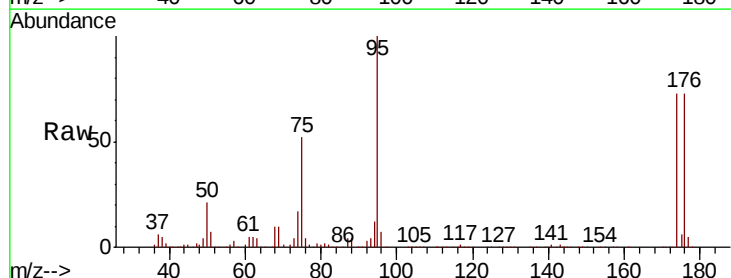
Tgt Ion: 95 Resp: 123491

Ion Ratio Lower Upper

95 100

174 80.4 0.0 160.4

176 77.8 0.0 154.6



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

11.13

120000

100000

80000

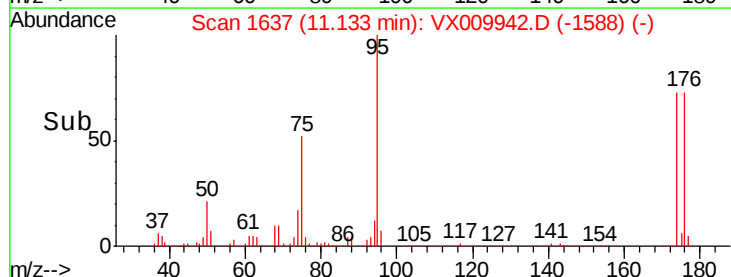
60000

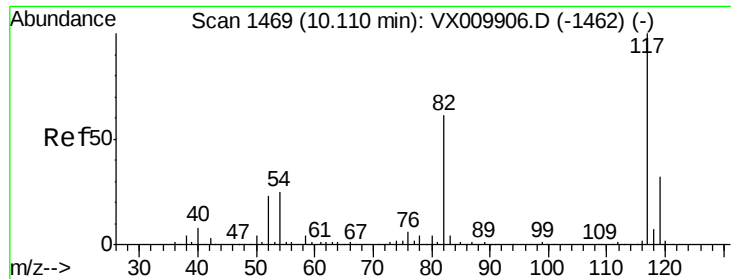
40000

20000

0

Time-->

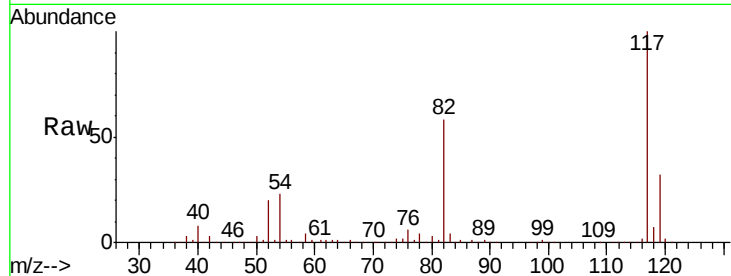




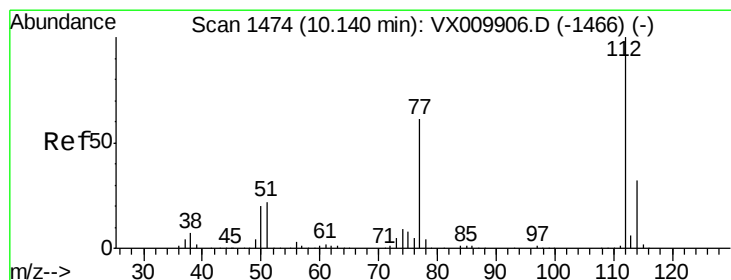
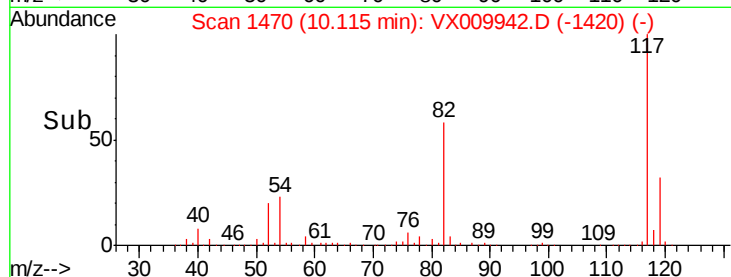
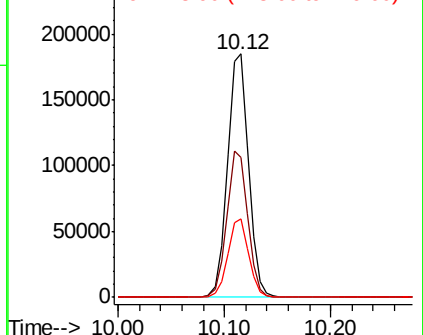
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX009942.D
Acq: 29 May 2019 16:03

Instrument :
MSVOA_X
ClientSampleId :
LF012MW200-190522RE

Tot Ion:117 Resp: 256805
Ion Ratio Lower Upper
117 100
82 57.7 49.2 73.8
119 32.4 25.2 37.8

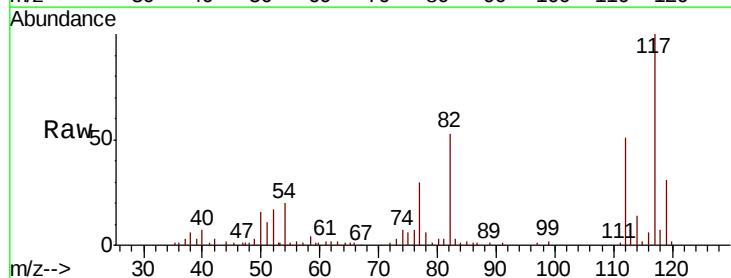


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

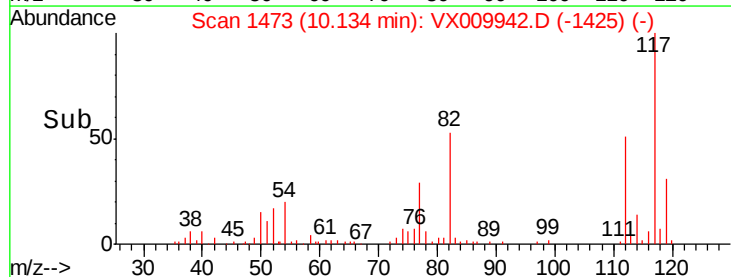
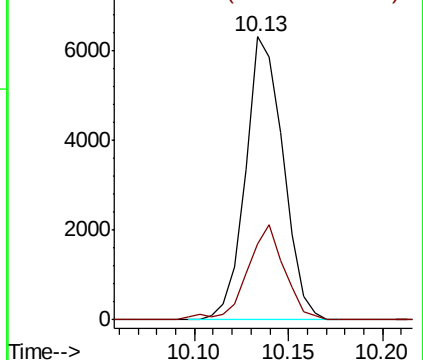


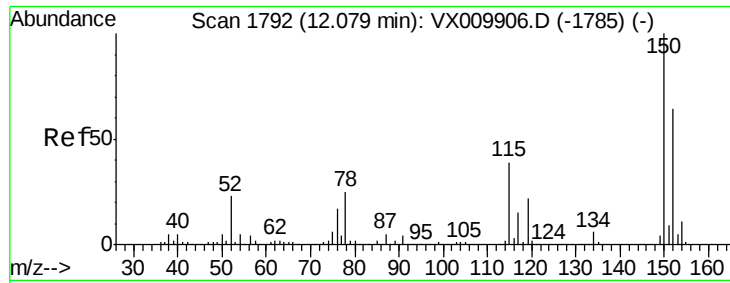
#65
Chlorobenzene
Concen: 1.625 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX009942.D
Acq: 29 May 2019 16:03

Tgt Ion:112 Resp: 8739
Ion Ratio Lower Upper
112 100
114 26.8 25.8 38.8



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): 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: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522RE

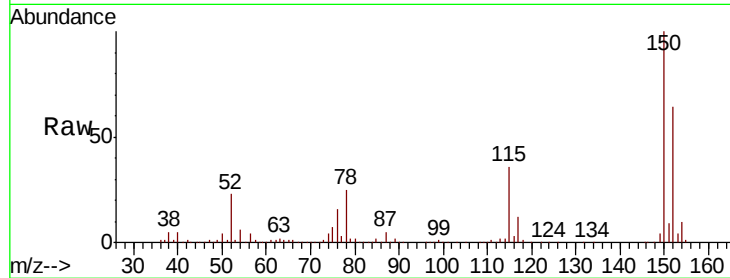
Tot Ion:152 Resp: 113260

Ion Ratio Lower Upper

152 100

115 57.4 41.4 124.2

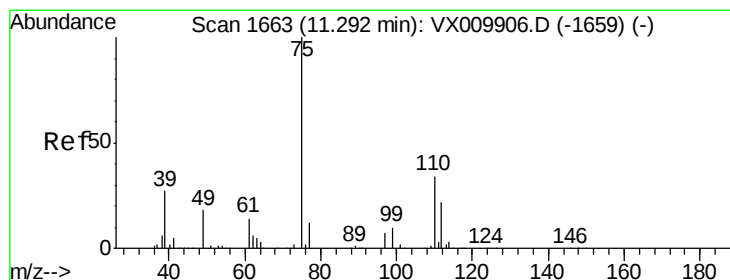
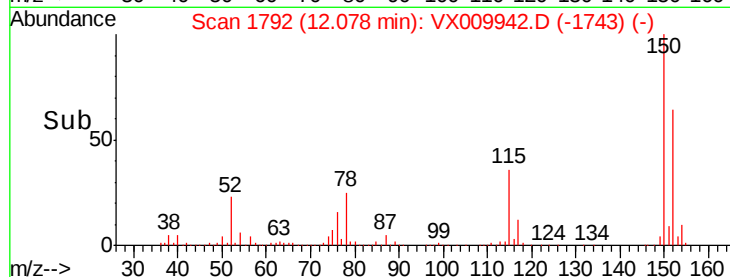
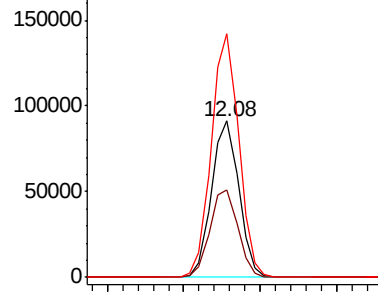
150 156.3 0.0 345.2



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: 23.545 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009942.D

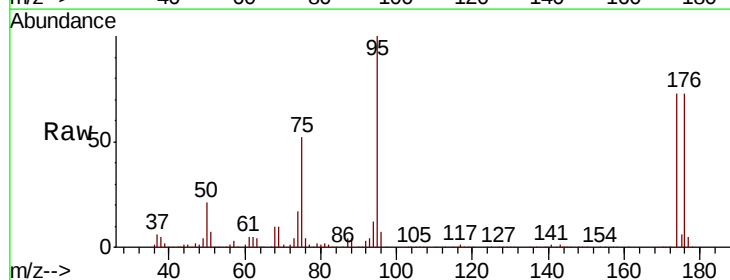
Acq: 29 May 2019 16:03

Tgt Ion: 75 Resp: 63770

Ion Ratio Lower Upper

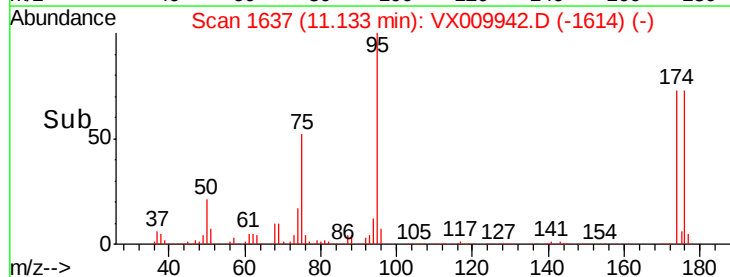
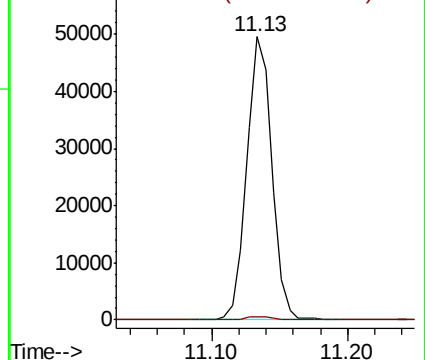
75 100

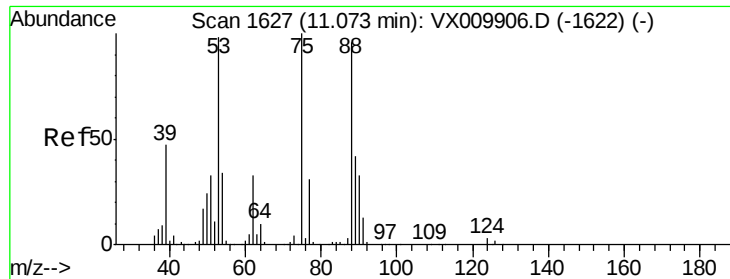
77 1.3 22.1 66.1#



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: 58.255 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

Instrument :

MSVOA_X

ClientSampleId :

LF012MW200-190522RE

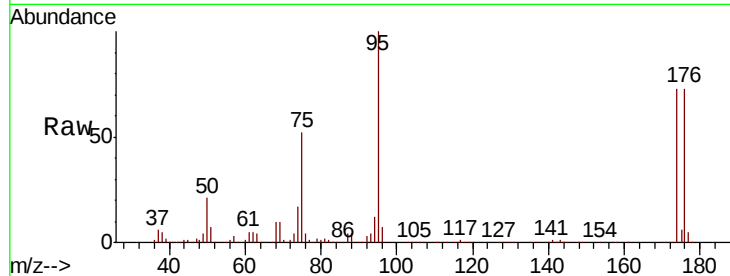
Tot Ion: 75 Resp: 63770

Ion Ratio Lower Upper

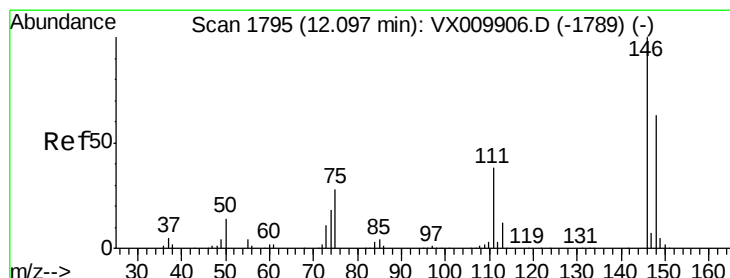
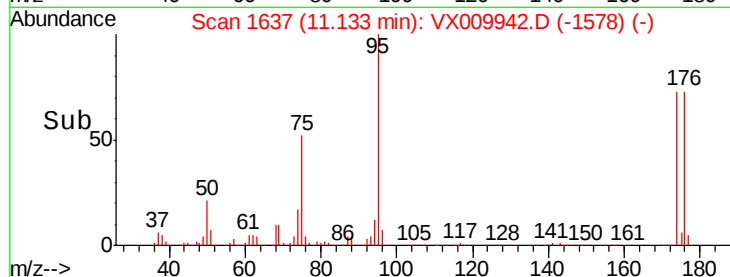
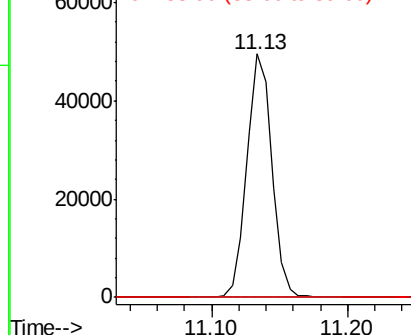
75 100

53 0.2 79.8 119.6#

89 0.0 34.2 51.4#



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



#88

1,4-Dichlorobenzene

Concen: 0.226 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX009942.D

Acq: 29 May 2019 16:03

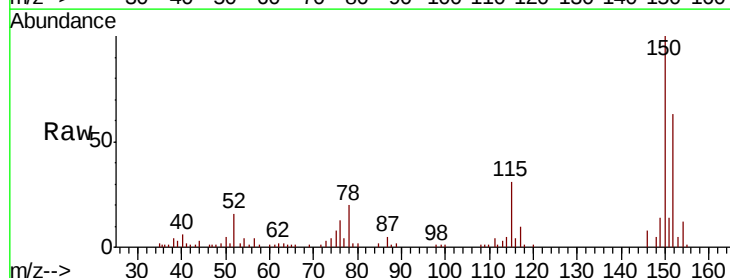
Tgt Ion: 146 Resp: 872

Ion Ratio Lower Upper

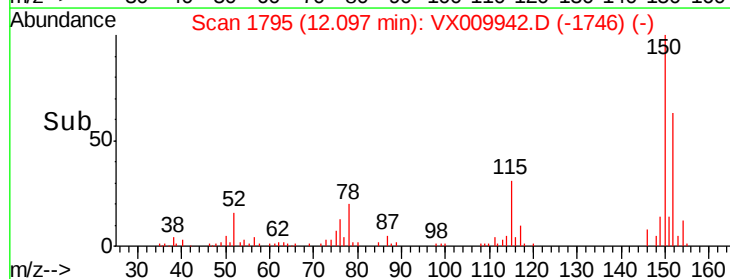
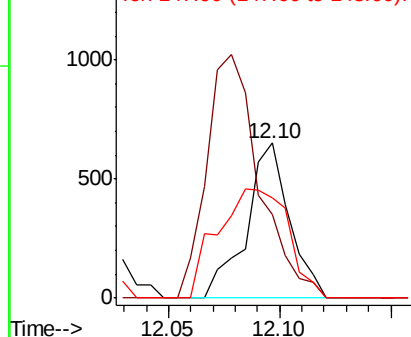
146 100

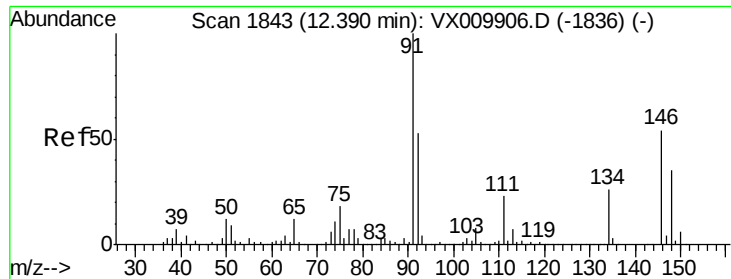
111 192.2 20.0 59.9#

148 116.3 32.3 96.9#



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





#91
 1,2-Dichlorobenzene
 Concen: 0.221 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. -0.00 min
 Lab File: VX009942.D
 Acq: 29 May 2019 16:03

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW200-190522RE

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.8	21.1	63.1
148	63.3	32.3	96.8

