

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX061020\
 Data File : VX016684.D
 Acq On : 10 Jun 2020 18:48
 Operator : JC/SP
 Sample : L2963-13
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW031-200608

Quant Time: Jun 11 03:03:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052720W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 27 16:31:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	218491	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	345761	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	357208	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	183387	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	129085	47.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.14%	
35) Dibromofluoromethane	5.46	113	107617	50.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.10%	
50) Toluene-d8	8.70	98	426646	51.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.98%	
62) 4-Bromofluorobenzene	11.12	95	174513	54.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.00%	

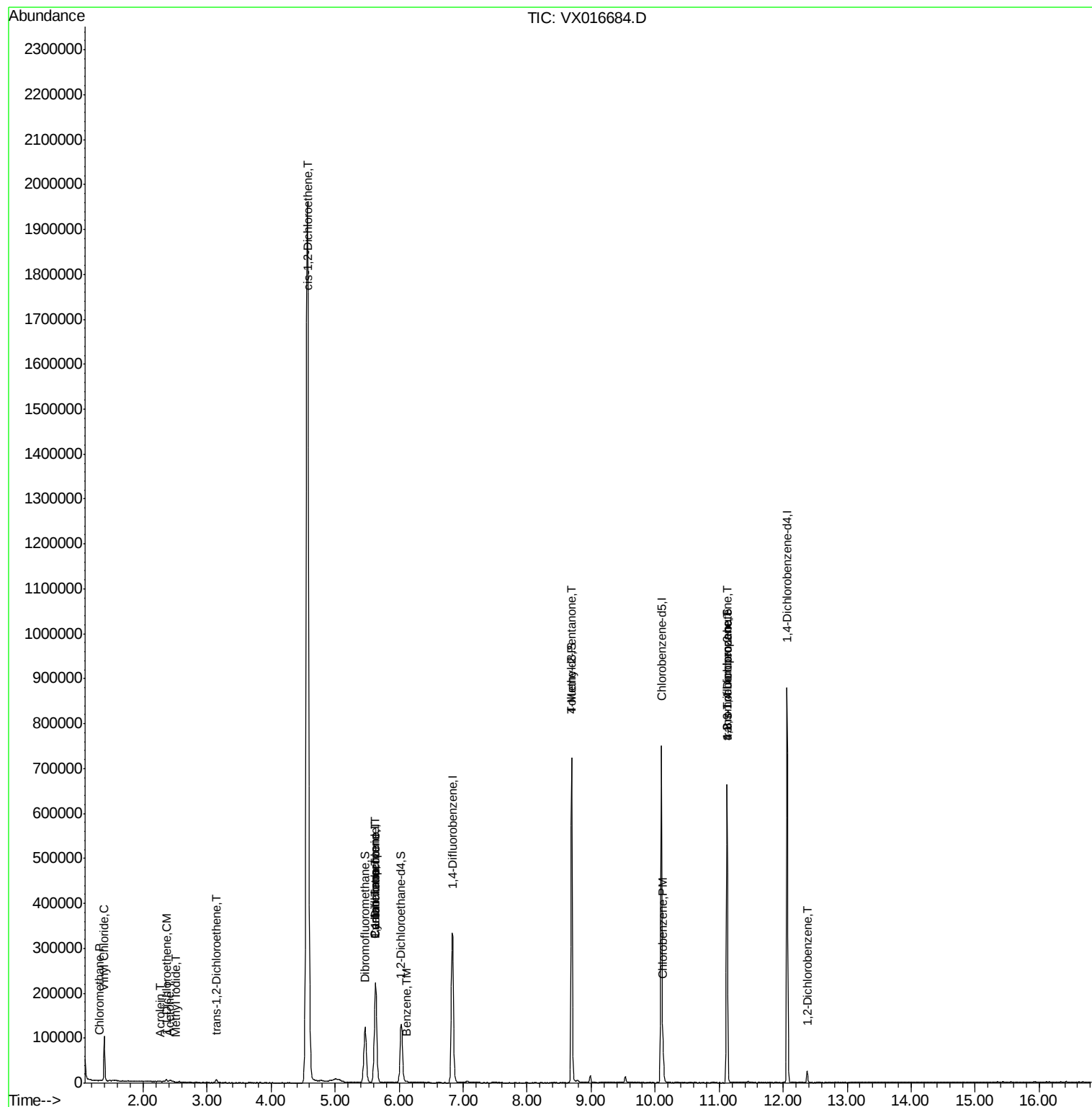
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	896	0.34	ug/l #	67
4) Vinyl Chloride	1.39	62	58607	21.33	ug/l	99
10) Methyl Iodide	2.50	142	79	3.09	ug/l #	76
12) 1,1-Dichloroethene	2.36	96	1662	0.79	ug/l #	73
13) Acrolein	2.28	56	147	0.50	ug/l #	1
16) Acetone	2.42	43	2749	2.31	ug/l	91
21) trans-1,2-Dichloroethene	3.14	96	2909	1.25	ug/l #	71
27) cis-1,2-Dichloroethene	4.57	96	1312908	488.03	ug/l	88
31) Cyclohexane	5.64	56	3652	0.97	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	15081	4.61	ug/l #	51
38) Carbon Tetrachloride	5.63	117	21001	6.10	ug/l #	15
40) Benzene	6.11	78	3571	0.37	ug/l #	87
51) 4-Methyl-2-Pentanone	8.70	43	1709	0.45	ug/l #	1
65) Chlorobenzene	10.12	112	34589	4.75	ug/l	96
76) 1,2,3-Trichloropropane	11.12	75	83087	20.61	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.12	75	83087	50.70	ug/l #	14
91) 1,2-Dichlorobenzene	12.38	146	8395	1.50	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

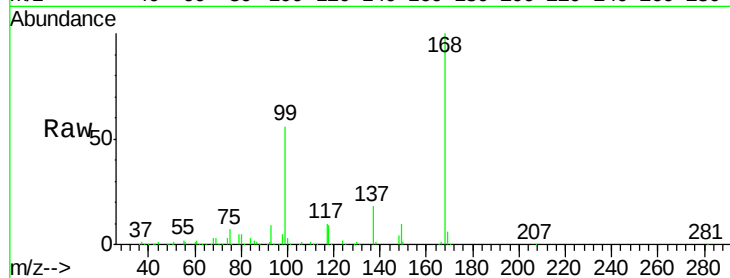
LF012MW031-200608

Tgt Ion:168 Resp: 218491

Ion Ratio Lower Upper

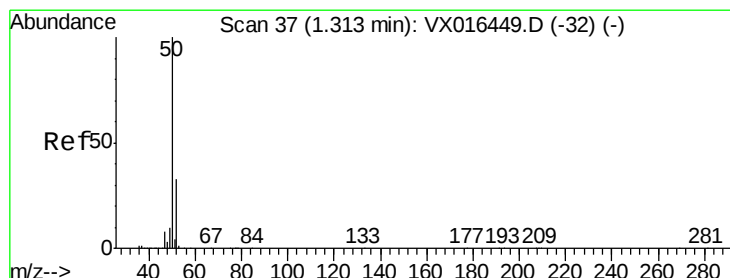
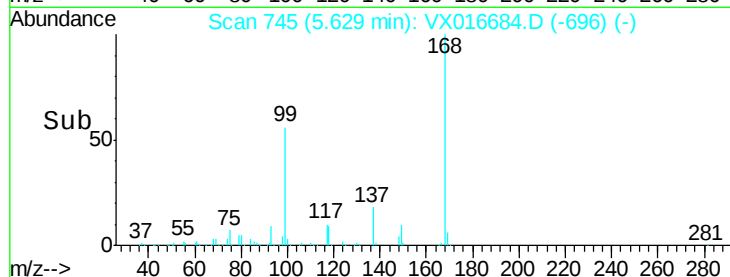
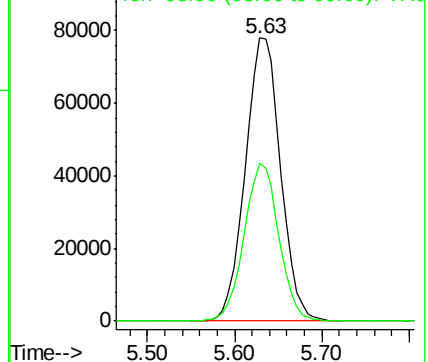
168 100

99 55.8 45.2 67.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.34 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX016684.D

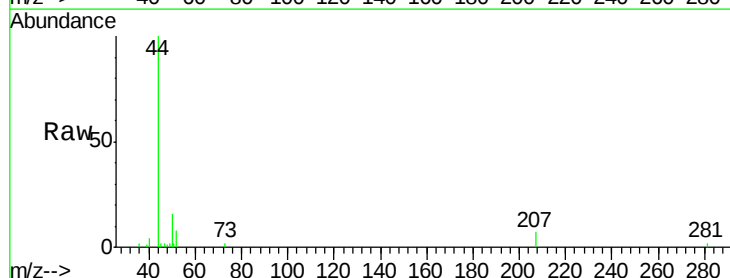
Acq: 10 Jun 2020 18:48

Tgt Ion: 50 Resp: 896

Ion Ratio Lower Upper

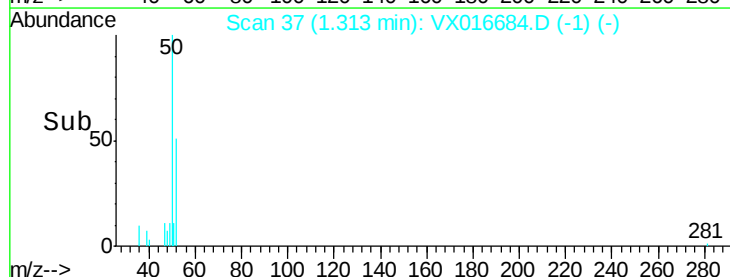
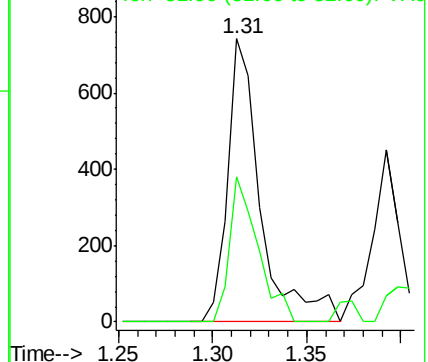
50 100

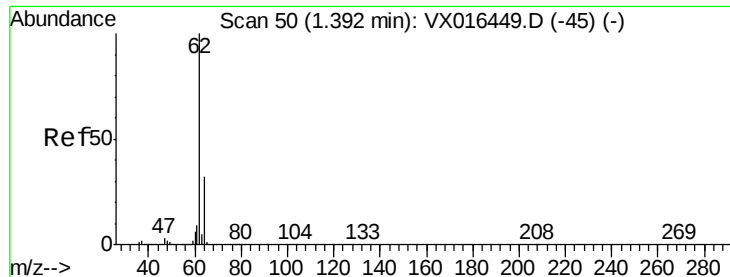
52 51.5 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 21.33 ug/l

RT: 1.39 min Scan# 50

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

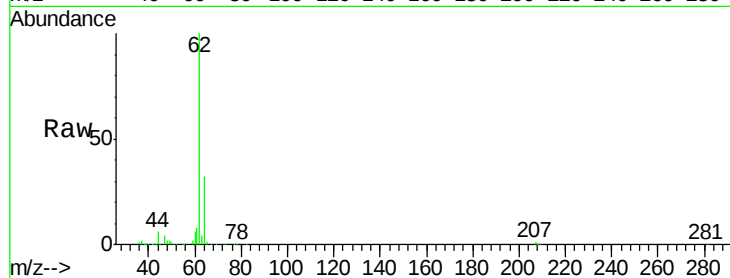
LF012MW031-200608

Tgt Ion: 62 Resp: 58607

Ion Ratio Lower Upper

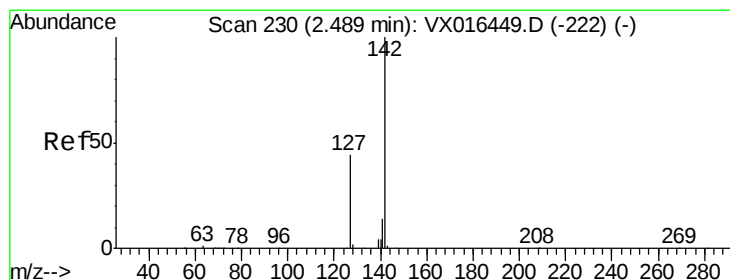
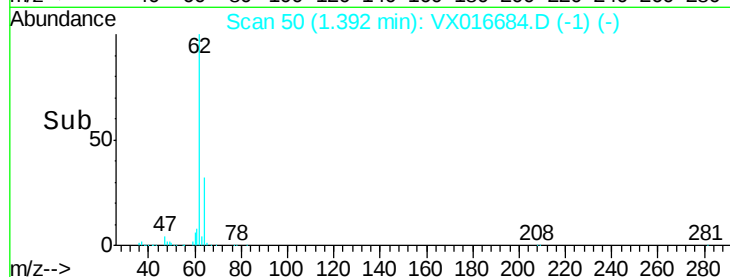
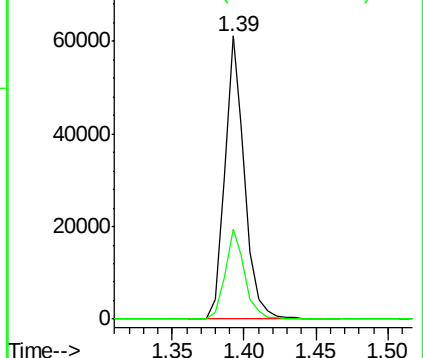
62 100

64 31.8 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#10

Methyl Iodide

Concen: 3.09 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

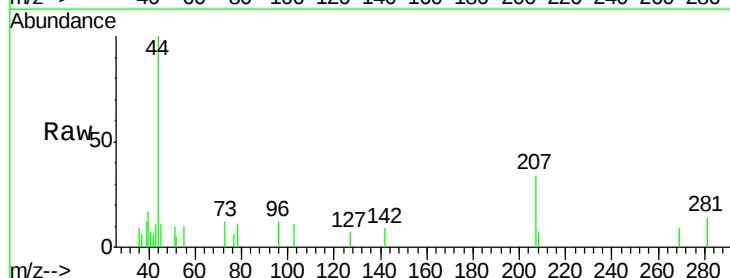
Tgt Ion: 142 Resp: 79

Ion Ratio Lower Upper

142 100

127 57.0 35.3 52.9#

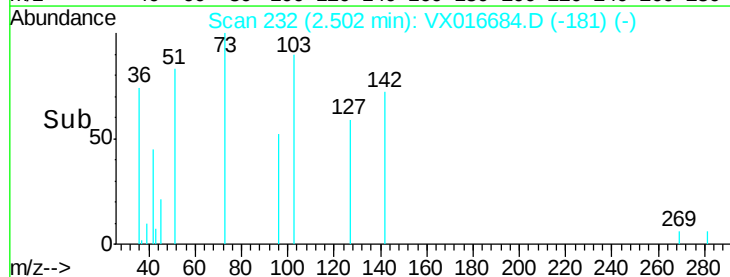
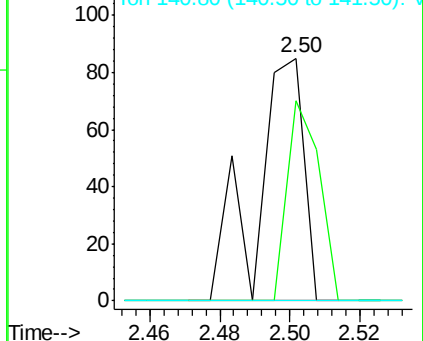
141 0.0 11.4 17.2#

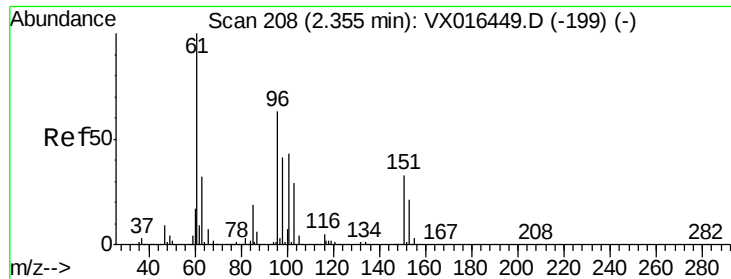


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

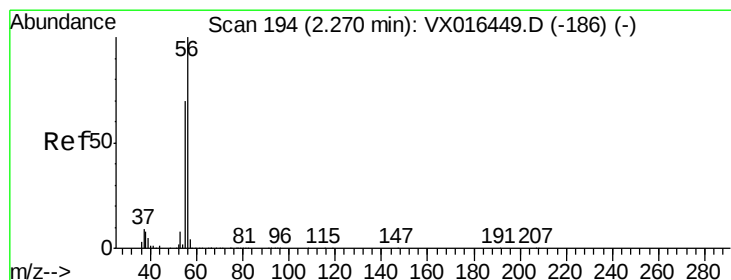
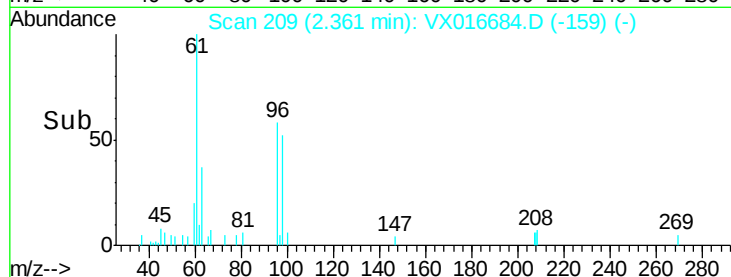
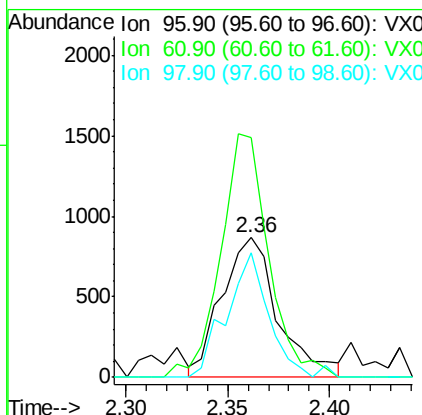
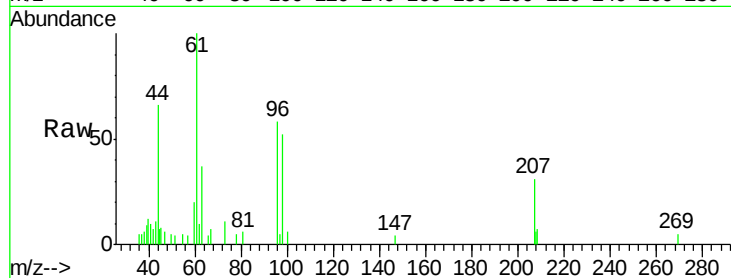




#12
 1,1-Dichloroethene
 Concen: 0.79 ug/l
 RT: 2.36 min Scan# 209
 Delta R.T. 0.01 min
 Lab File: VX016684.D
 Acq: 10 Jun 2020 18:48

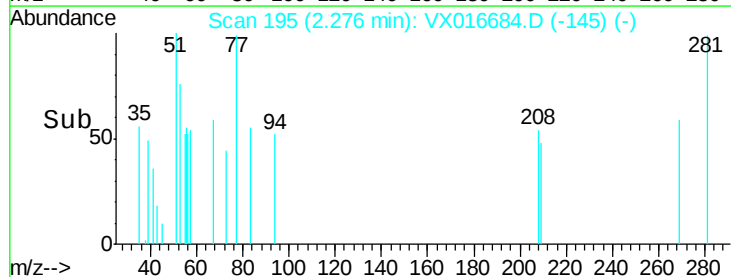
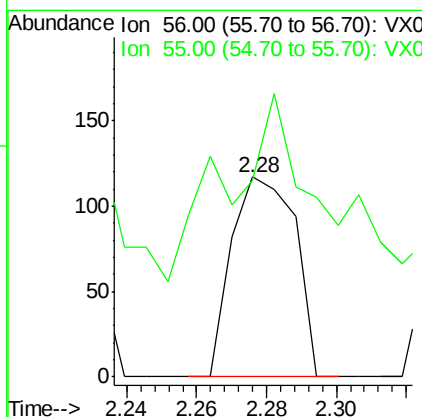
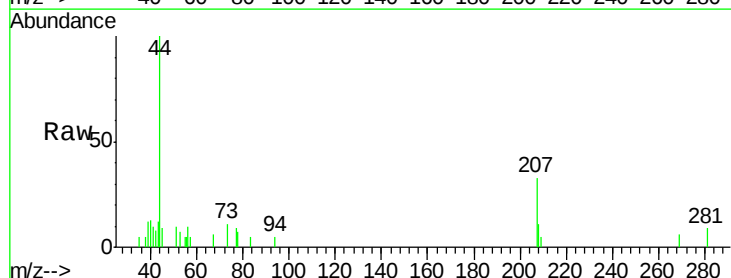
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW031-200608

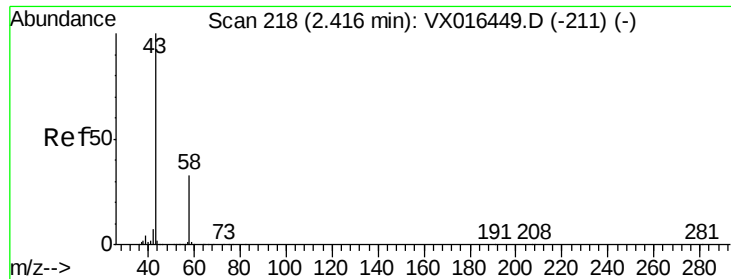
Tgt Ion: 96 Resp: 1662
 Ion Ratio Lower Upper
 96 100
 61 186.4 126.6 189.8
 98 96.7 51.3 76.9#



#13
 Acrolein
 Concen: 0.50 ug/l
 RT: 2.28 min Scan# 195
 Delta R.T. 0.01 min
 Lab File: VX016684.D
 Acq: 10 Jun 2020 18:48

Tgt Ion: 56 Resp: 147
 Ion Ratio Lower Upper
 56 100
 55 340.1 58.3 87.5#





#16

Acetone

Concen: 2.31 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

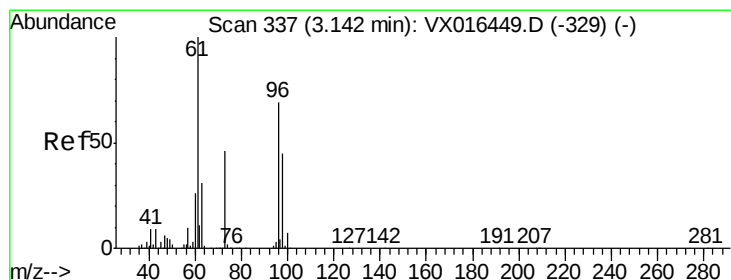
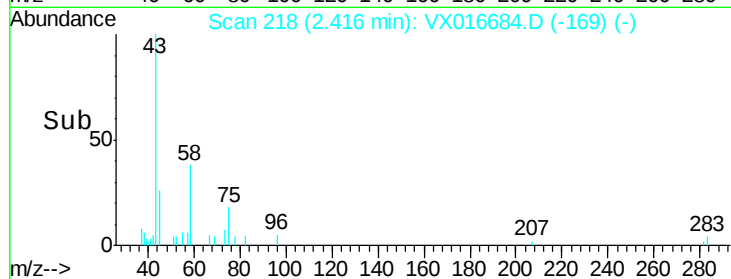
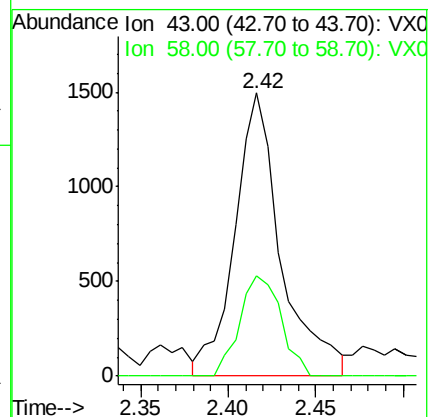
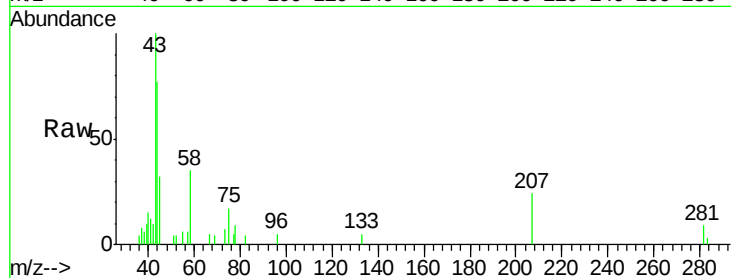
LF012MW031-200608

Tgt Ion: 43 Resp: 2749

Ion Ratio Lower Upper

43 100

58 37.4 26.1 39.1



#21

trans-1,2-Dichloroethene

Concen: 1.25 ug/l

RT: 3.14 min Scan# 337

Delta R.T. -0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

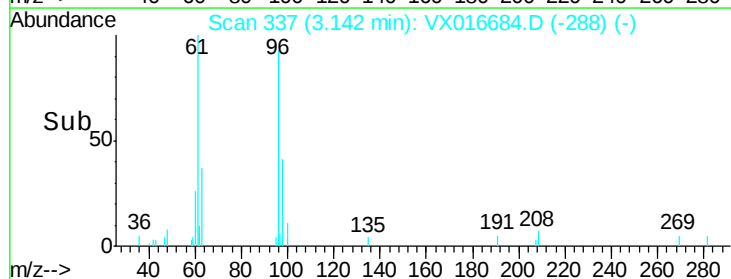
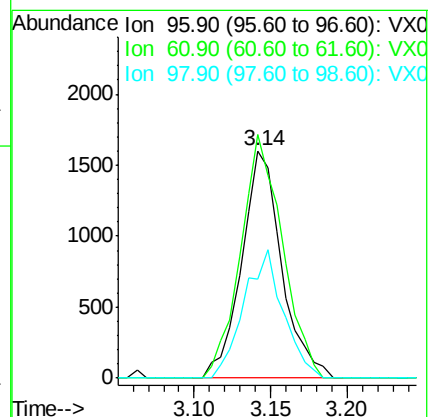
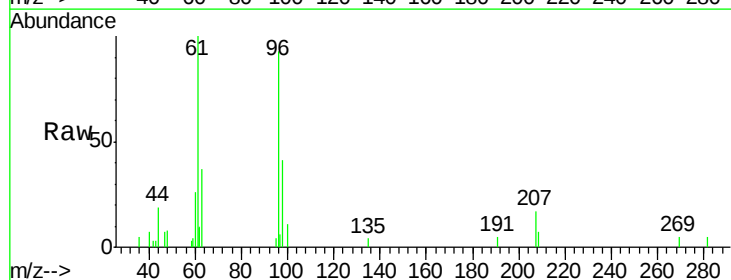
Tgt Ion: 96 Resp: 2909

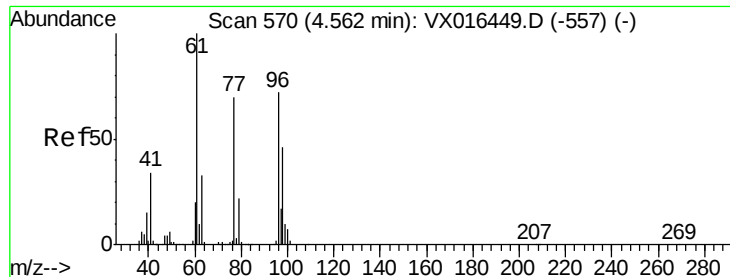
Ion Ratio Lower Upper

96 100

61 107.2 115.3 172.9#

98 43.8 51.9 77.9#



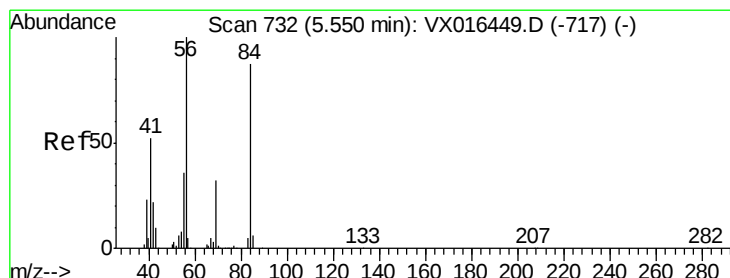
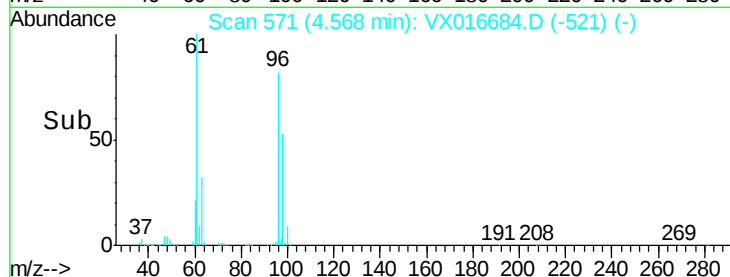
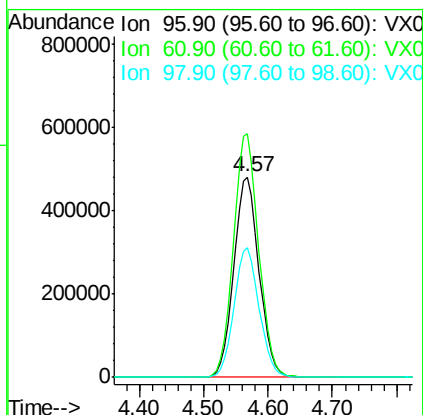
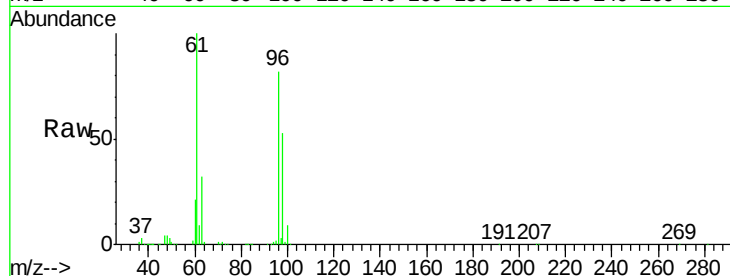


#27

cis-1,2-Dichloroethene
Concen: 488.03 ug/l
RT: 4.57 min Scan# 571
Delta R.T. 0.01 min
Lab File: VX016684.D
Acq: 10 Jun 2020 18:48

Instrument :
MSVOA_X
ClientSampleId :
LF012MW031-200608

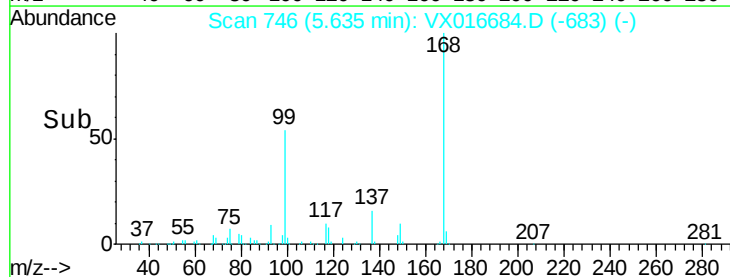
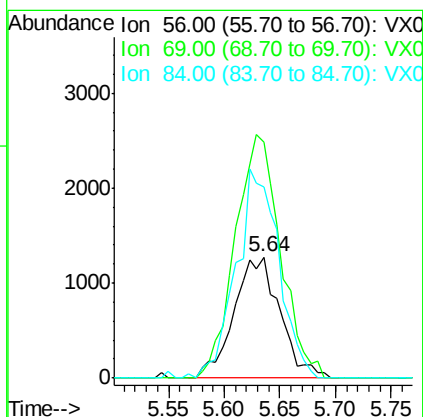
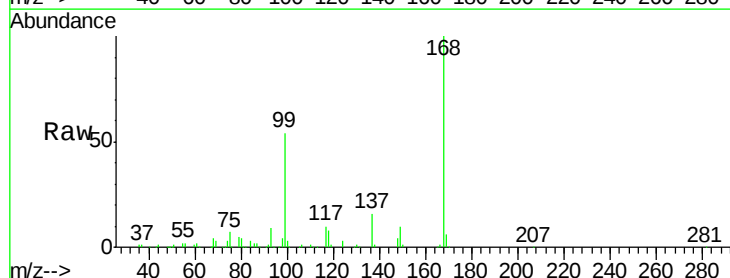
Tgt Ion: 96 Resp: 1312908
Ion Ratio Lower Upper
96 100
61 121.7 0.0 284.6
98 64.4 0.0 127.2

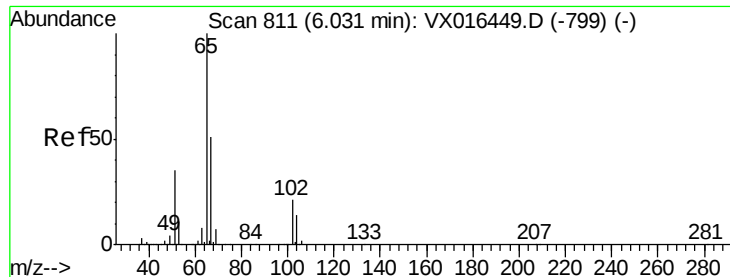


#31

Cyclohexane
Concen: 0.97 ug/l
RT: 5.64 min Scan# 746
Delta R.T. 0.09 min
Lab File: VX016684.D
Acq: 10 Jun 2020 18:48

Tgt Ion: 56 Resp: 3652
Ion Ratio Lower Upper
56 100
69 195.3 25.7 38.5#
84 157.9 70.0 105.0#

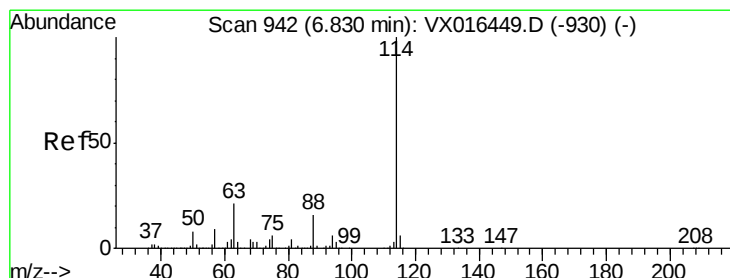
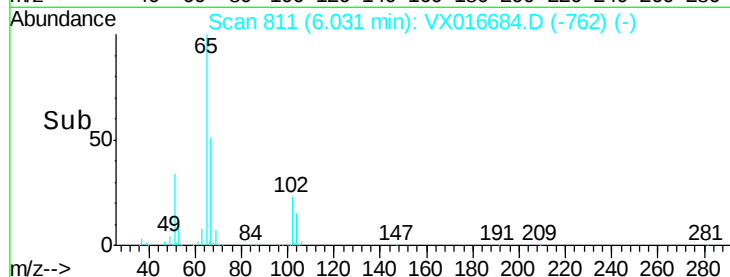
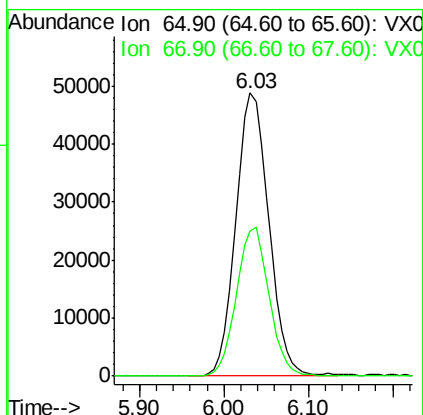
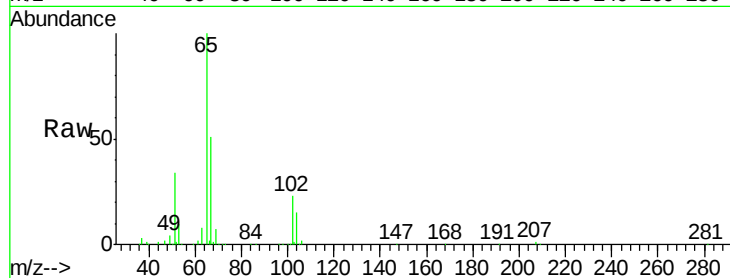




#33
 1,2-Dichloroethane-d4
 Concen: 47.57 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX016684.D
 Acq: 10 Jun 2020 18:48

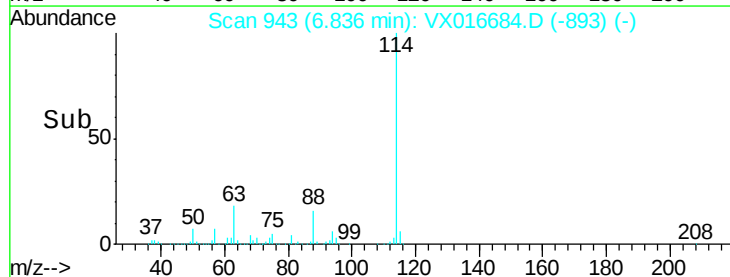
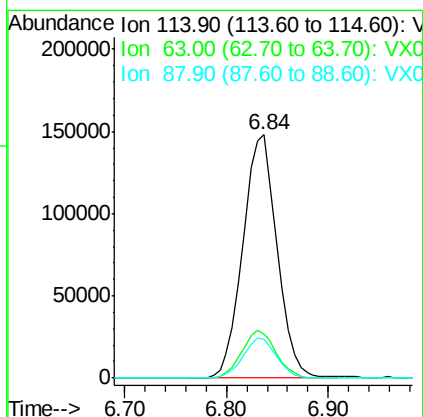
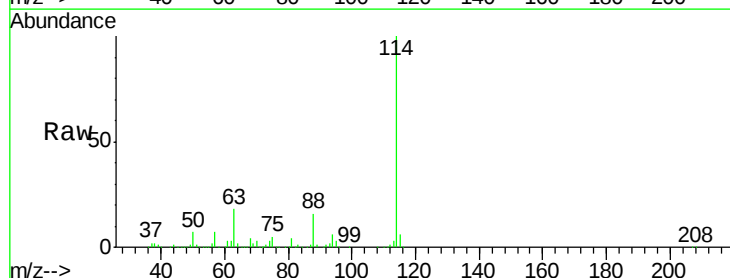
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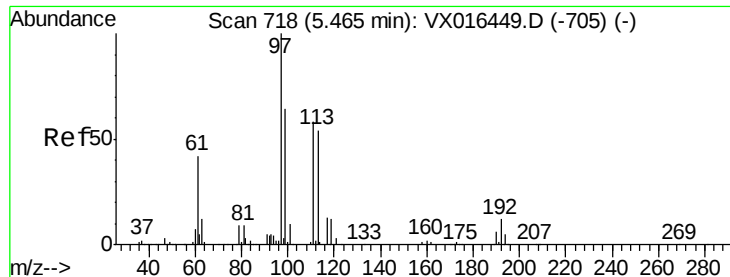
Tgt Ion: 65 Resp: 129085
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX016684.D
 Acq: 10 Jun 2020 18:48

Tgt Ion: 114 Resp: 345761
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 42.6
 88 16.0 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.55 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW031-200608

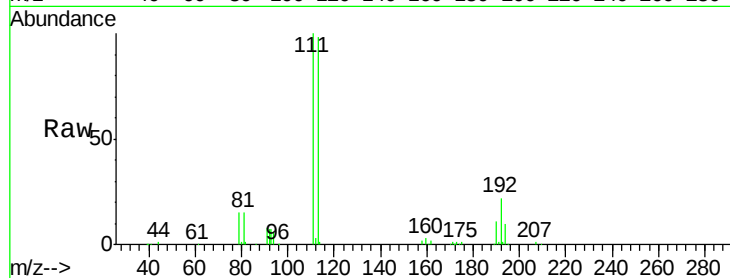
Tgt Ion:113 Resp: 107617

Ion Ratio Lower Upper

113 100

111 102.1 83.0 124.6

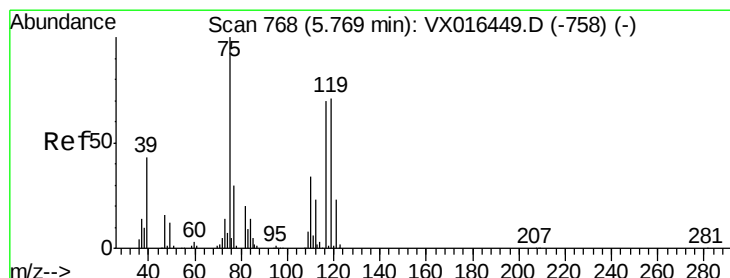
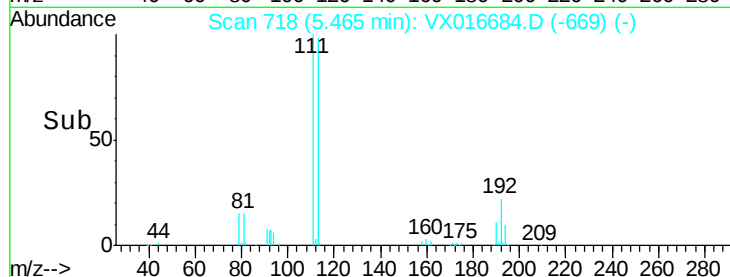
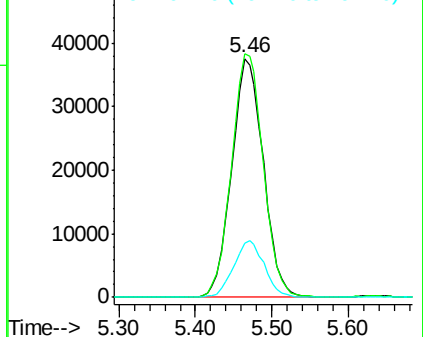
192 23.2 17.7 26.5



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: 4.61 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

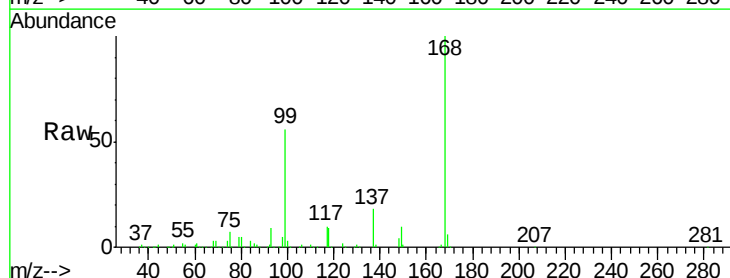
Tgt Ion: 75 Resp: 15081

Ion Ratio Lower Upper

75 100

110 9.9 17.4 52.3#

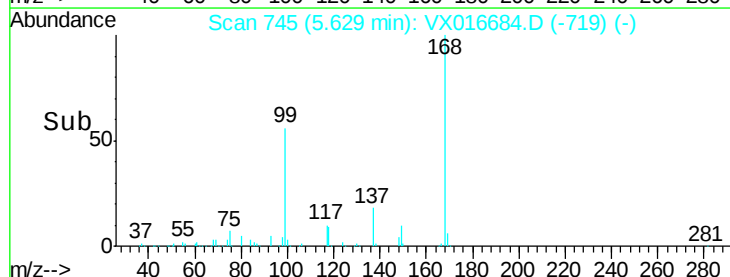
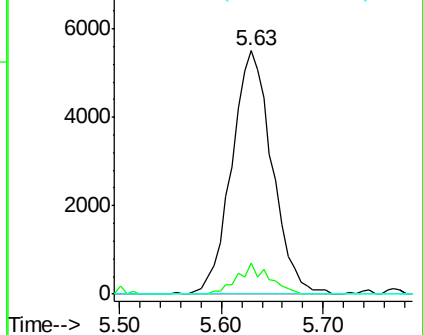
77 0.0 24.2 36.4#

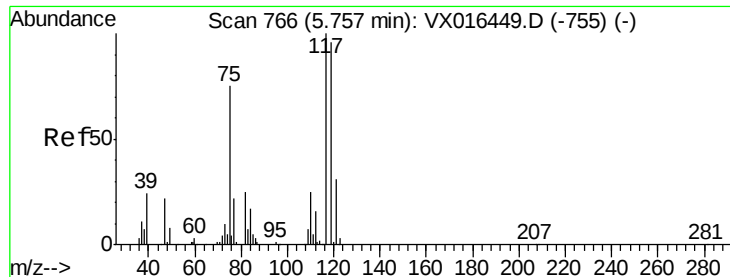


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.10 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW031-200608

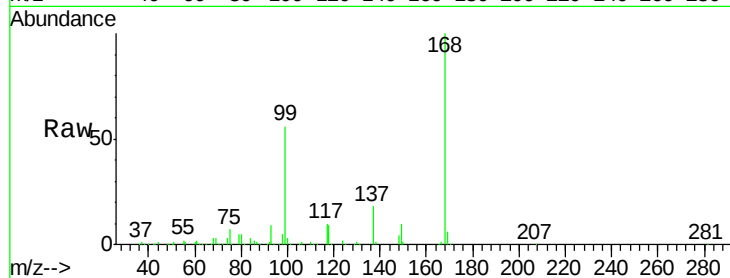
Tgt Ion:117 Resp: 21001

Ion Ratio Lower Upper

117 100

119 4.1 76.3 114.5#

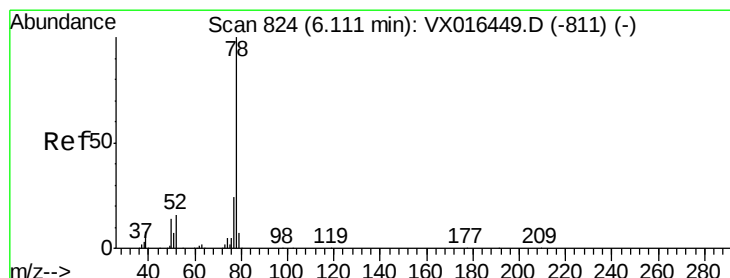
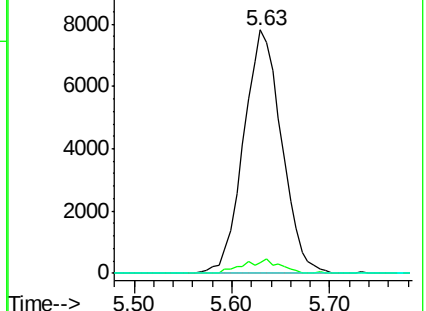
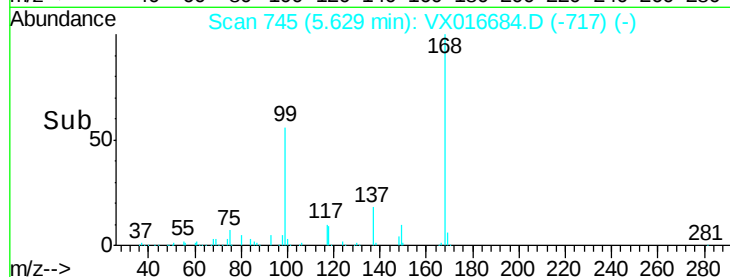
121 0.0 24.6 37.0#



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



#40

Benzene

Concen: 0.37 ug/l

RT: 6.11 min Scan# 824

Delta R.T. 0.00 min

Lab File: VX016684.D

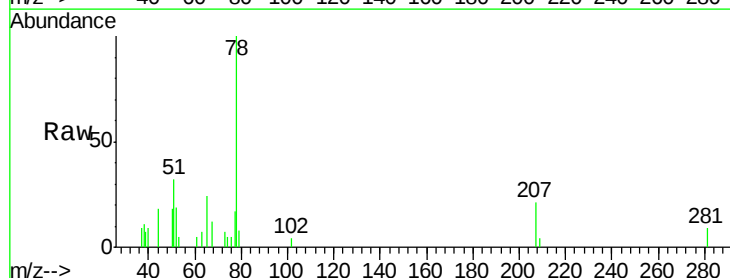
Acq: 10 Jun 2020 18:48

Tgt Ion: 78 Resp: 3571

Ion Ratio Lower Upper

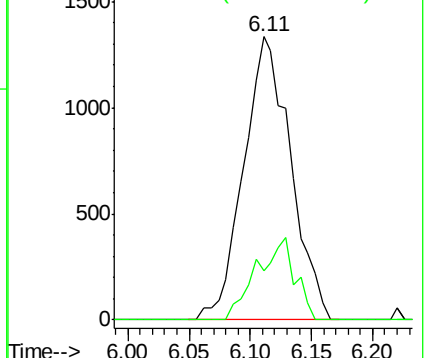
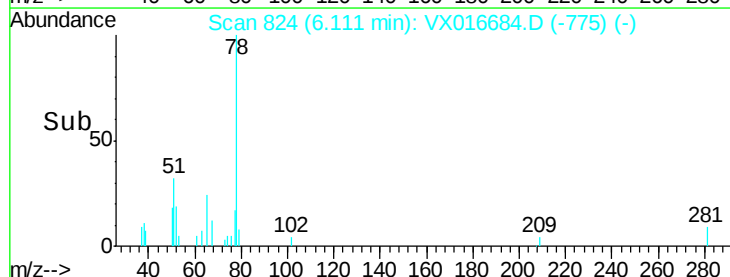
78 100

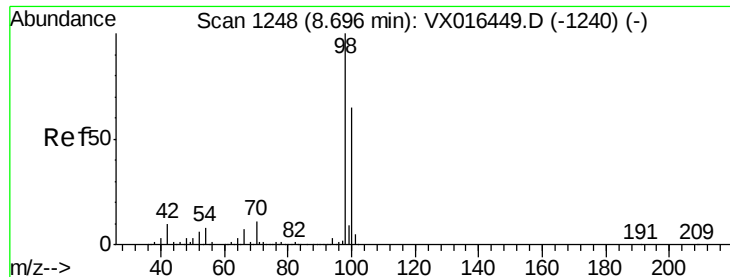
77 17.3 18.9 28.3#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#50

Toluene-d8

Concen: 51.49 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

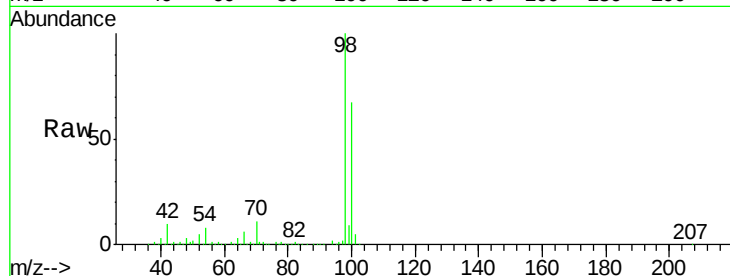
LF012MW031-200608

Tgt Ion: 98 Resp: 426646

Ion Ratio Lower Upper

98 100

100 66.8 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

300000

250000

200000

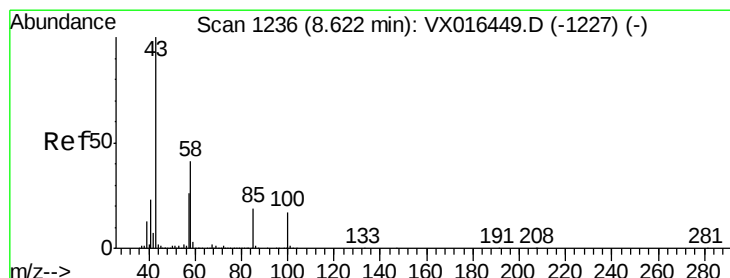
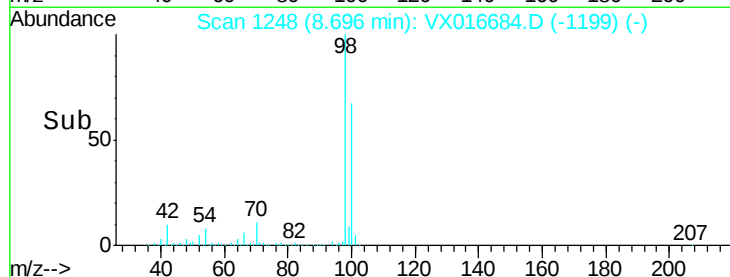
150000

100000

50000

0

Time--> 8.60 8.65 8.70 8.75



#51

4-Methyl-2-Pentanone

Concen: 0.45 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.07 min

Lab File: VX016684.D

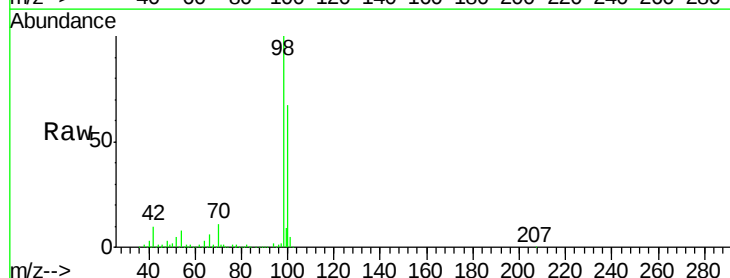
Acq: 10 Jun 2020 18:48

Tgt Ion: 43 Resp: 1709

Ion Ratio Lower Upper

43 100

58 196.0 33.0 49.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

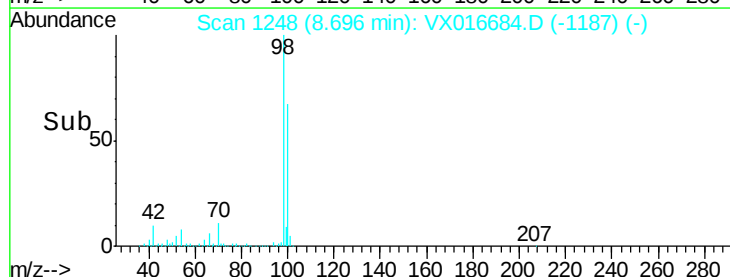
1500

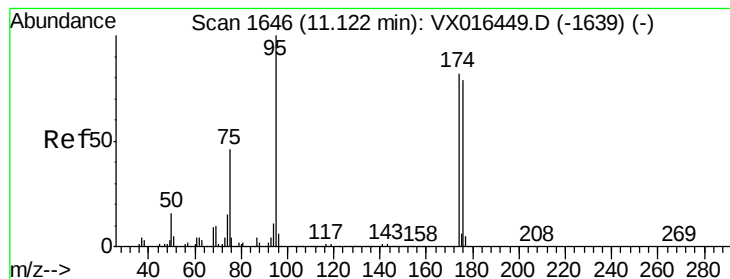
1000

500

0

Time--> 8.65 8.70 8.75





#62

4-Bromofluorobenzene

Concen: 54.50 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW031-200608

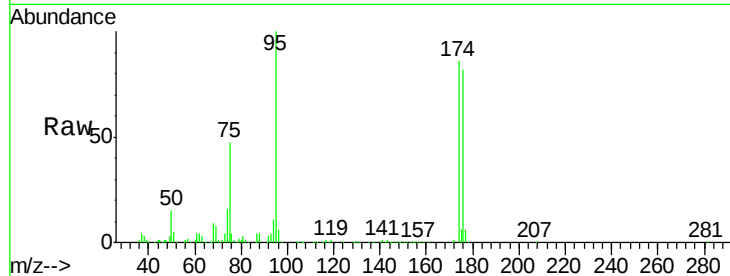
Tgt Ion: 95 Resp: 174513

Ion Ratio Lower Upper

95 100

174 85.5 0.0 163.0

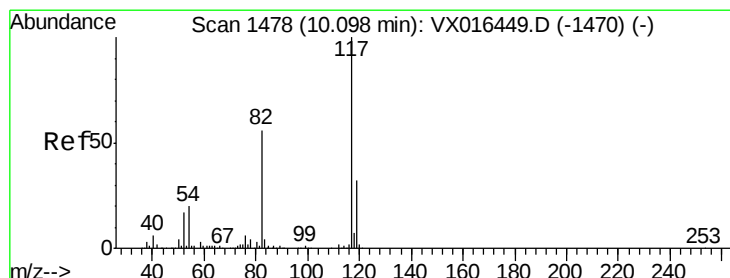
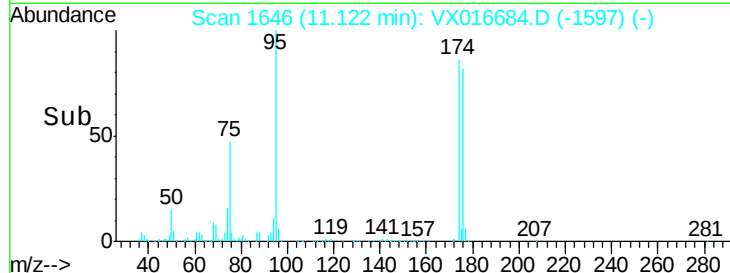
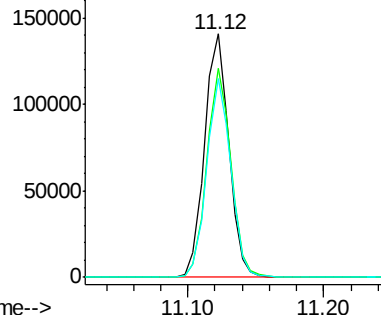
176 81.3 0.0 156.8



Abundance Ion 94.90 (94.60 to 95.60): VX016449.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX016449.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX016449.D (-1639) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

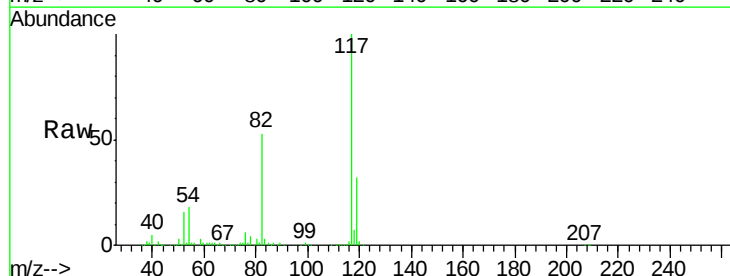
Tgt Ion: 117 Resp: 357208

Ion Ratio Lower Upper

117 100

82 53.2 45.0 67.6

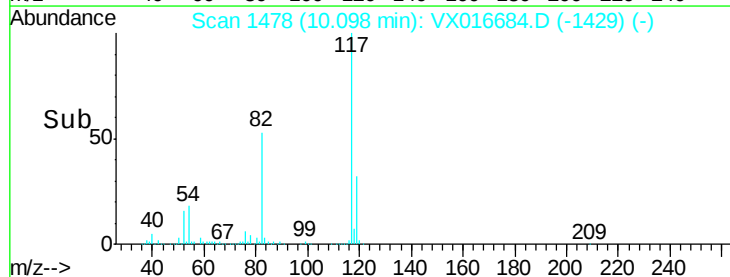
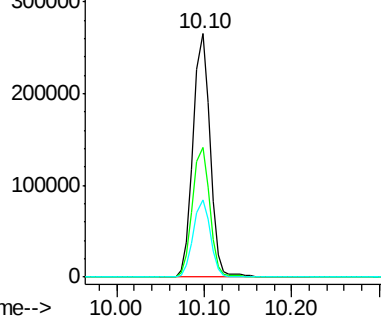
119 31.7 25.8 38.8

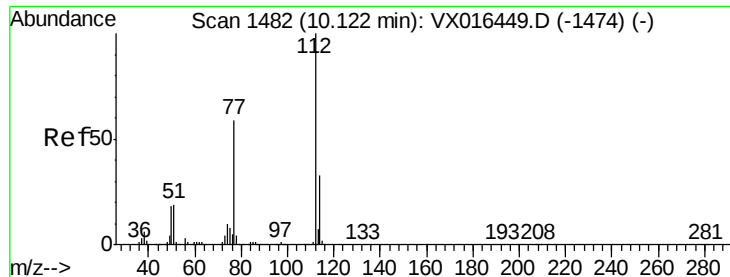


Abundance Ion 116.90 (116.60 to 117.60): VX016449.D (-1470) (-)

Ion 82.00 (81.70 to 82.70): VX016449.D (-1470) (-)

Ion 118.90 (118.60 to 119.60): VX016449.D (-1470) (-)





#65

Chlorobenzene

Concen: 4.75 ug/l

RT: 10.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

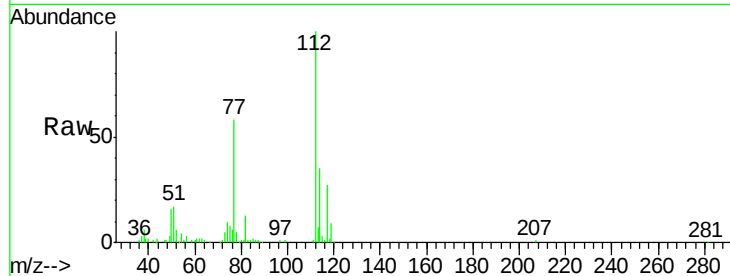
LF012MW031-200608

Tgt Ion:112 Resp: 34589

Ion Ratio Lower Upper

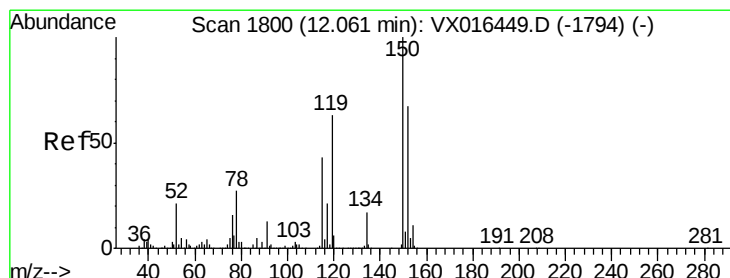
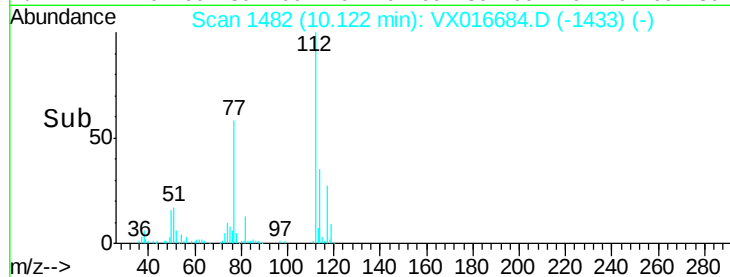
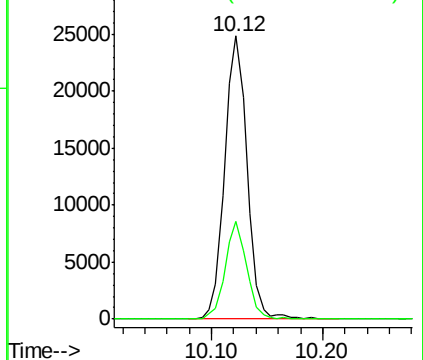
112 100

114 34.6 26.0 39.0



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: 50.00 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

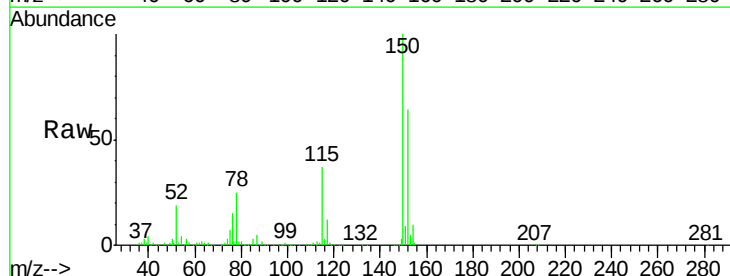
Tgt Ion:152 Resp: 183387

Ion Ratio Lower Upper

152 100

115 57.6 39.9 119.6

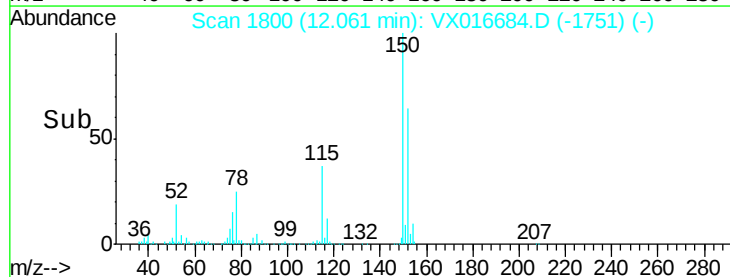
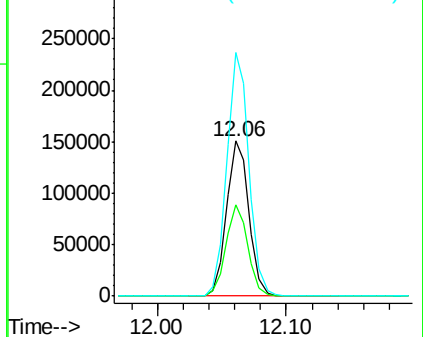
150 155.6 0.0 341.0

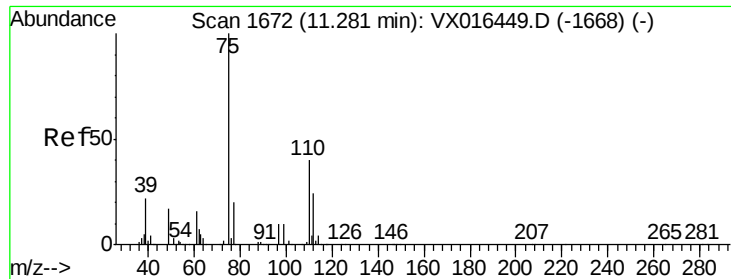


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

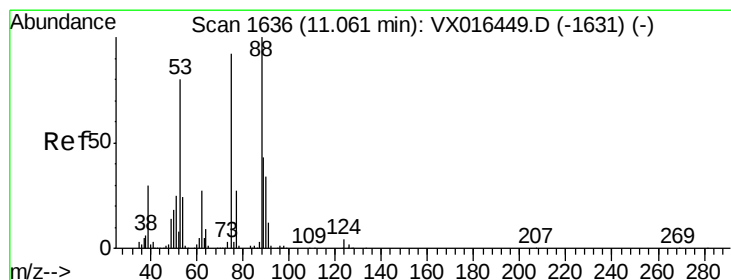
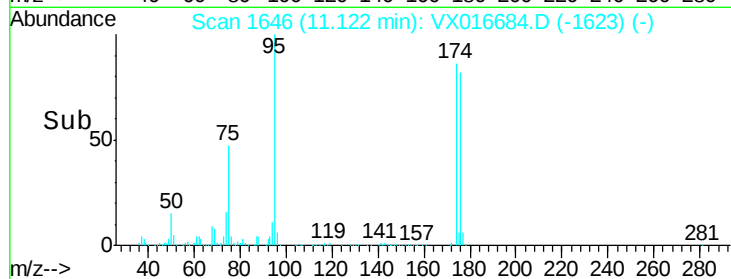
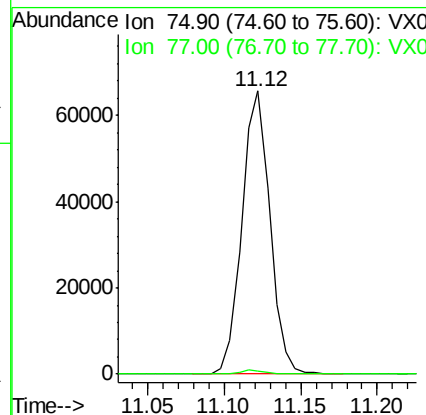
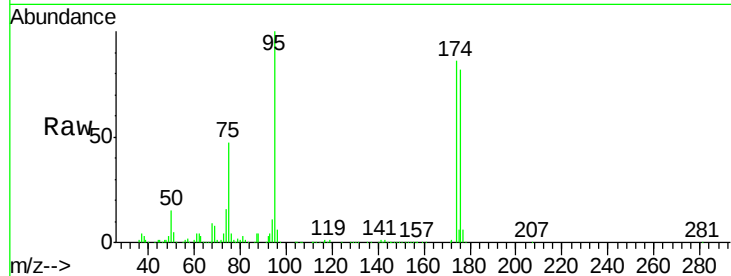




#76
 1,2,3-Trichloropropane
 Concen: 20.61 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. -0.16 min
 Lab File: VX016684.D
 Acq: 10 Jun 2020 18:48

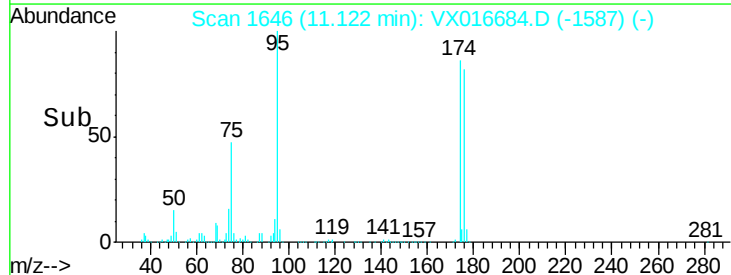
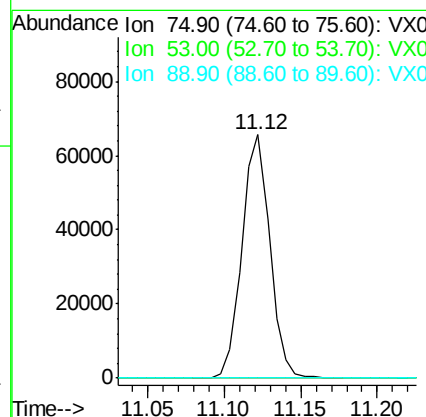
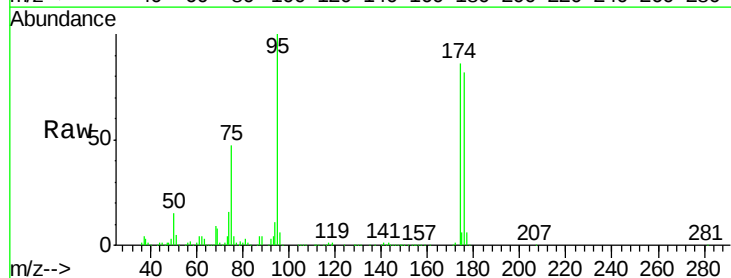
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012MW031-200608

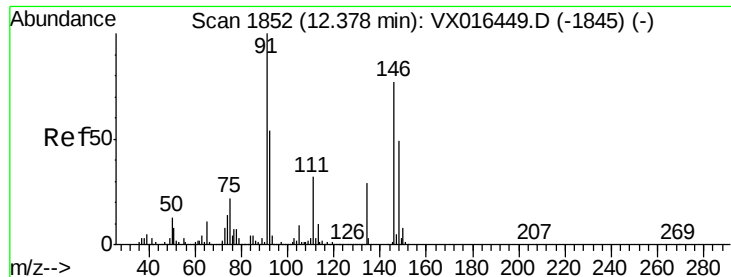
Tgt Ion: 75 Resp: 83087
 Ion Ratio Lower Upper
 75 100
 77 1.3 21.3 63.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 50.70 ug/l
 RT: 11.12 min Scan# 1646
 Delta R.T. 0.06 min
 Lab File: VX016684.D
 Acq: 10 Jun 2020 18:48

Tgt Ion: 75 Resp: 83087
 Ion Ratio Lower Upper
 75 100
 53 0.1 71.3 106.9#
 89 0.1 36.6 55.0#





#91

1,2-Dichlorobenzene

Concen: 1.50 ug/l

RT: 12.38 min Scan# 1852

Delta R.T. 0.00 min

Lab File: VX016684.D

Acq: 10 Jun 2020 18:48

Instrument :

MSVOA_X

ClientSampleId :

LF012MW031-200608

Tgt Ion:146 Resp: 8395

Ion Ratio Lower Upper

146 100

111 43.5 21.4 64.3

148 67.1 31.9 95.7

