

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032319\
 Data File : VF062124.D
 Acq On : 23 Mar 2019 18:30
 Operator : VA/AP
 Sample : K2045-17
 Misc : 6.61g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 25 01:30:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F032219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 01:16:37 2019
 Response via : Initial Calibration

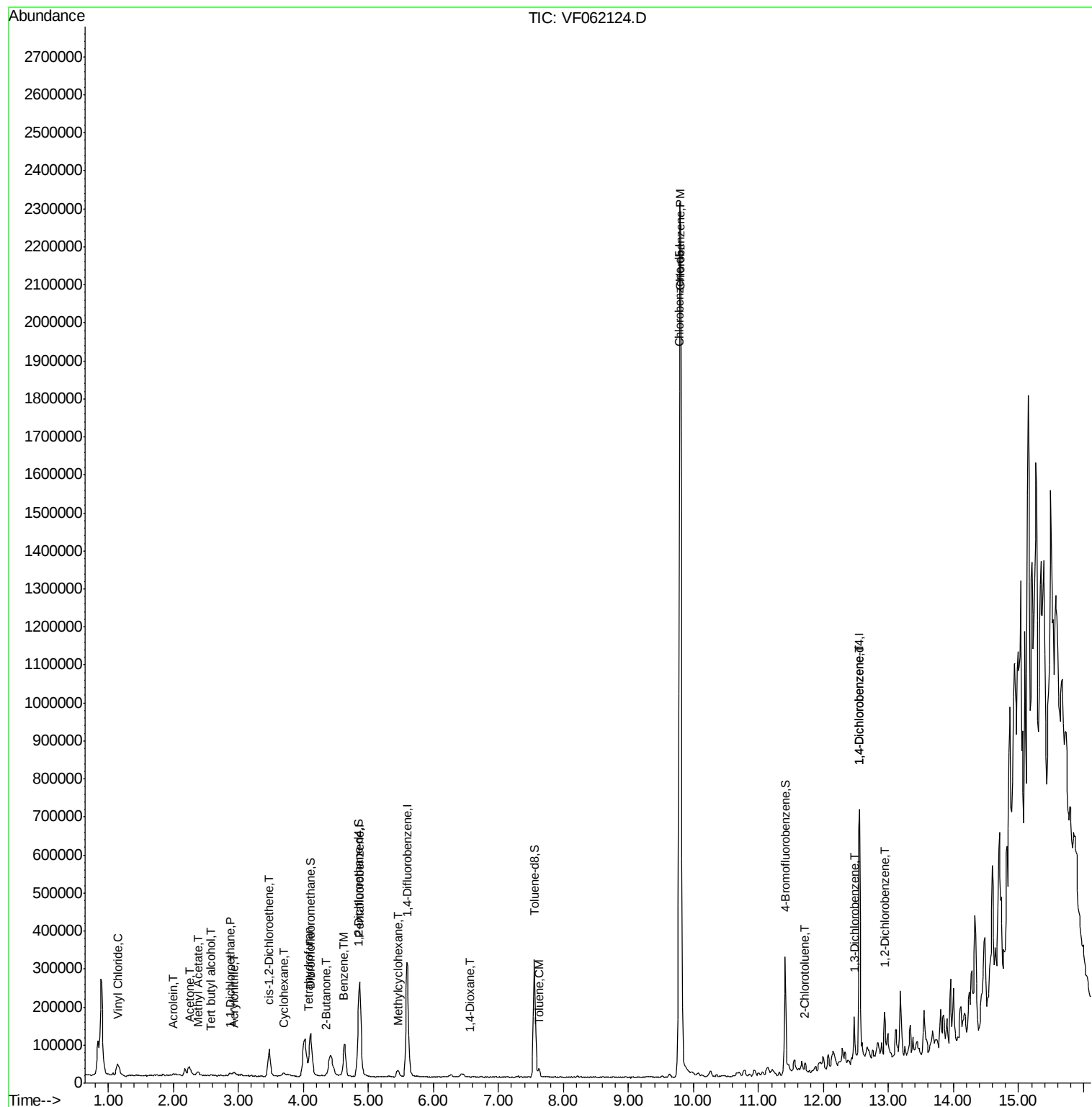
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	241249	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	390597	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	315687	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	171250	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	76688	42.74	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	85.48%	
35) Dibromofluoromethane	4.11	113	105637	39.98	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	79.96%	
50) Toluene-d8	7.55	98	276614	35.07	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	70.14%	
62) 4-Bromofluorobenzene	11.41	95	118770	39.01	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	78.02%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.14	62	69675	23.293	ug/l	90
11) Tert butyl alcohol	2.57	59	373	3.778	ug/l #	1
13) Acrolein	2.00	56	915	7.707	ug/l #	1
15) Acrylonitrile	2.92	53	1136	3.272	ug/l #	29
16) Acetone	2.24	43	21955	58.133	ug/l	95
18) Methyl Acetate	2.37	43	5780	6.416	ug/l #	56
24) 1,1-Dichloroethane	2.88	63	8393	2.150	ug/l #	90
25) 2-Butanone	4.34	43	941	1.194	ug/l #	70
27) cis-1,2-Dichloroethene	3.47	96	46933	15.829	ug/l	97
29) Tetrahydrofuran	4.07	42	1463	4.268	ug/l #	66
31) Cyclohexane	3.70	56	7756	1.902	ug/l	92
39) Methylcyclohexane	5.45	83	10909	2.526	ug/l	88
40) Benzene	4.63	78	120823	12.114	ug/l	95
49) 1,4-Dioxane	6.55	88	64	6.506	ug/l #	1
52) Toluene	7.62	92	10818	1.873	ug/l	99
65) Chlorobenzene	9.80	112	1795284	303.939	ug/l	94
79) 2-Chlorotoluene	11.72	91	10054	1.293	ug/l	92
87) 1,3-Dichlorobenzene	12.48	146	54598	9.982	ug/l	95
88) 1,4-Dichlorobenzene	12.56	146	84586	15.848	ug/l	96
91) 1,2-Dichlorobenzene	12.94	146	45944	8.945	ug/l	91

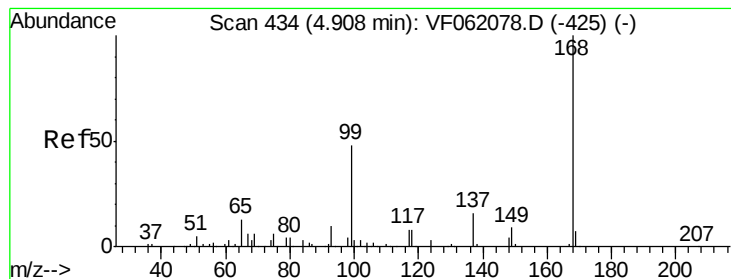
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Mar 23 01:16:37 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

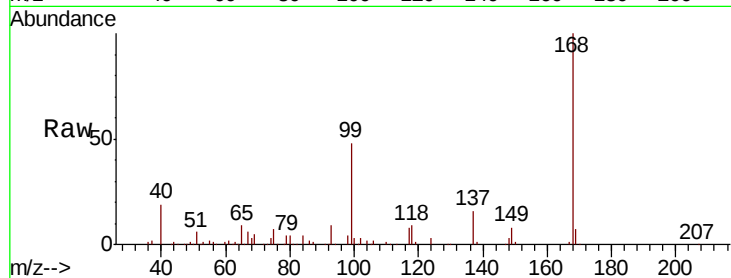
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 241249

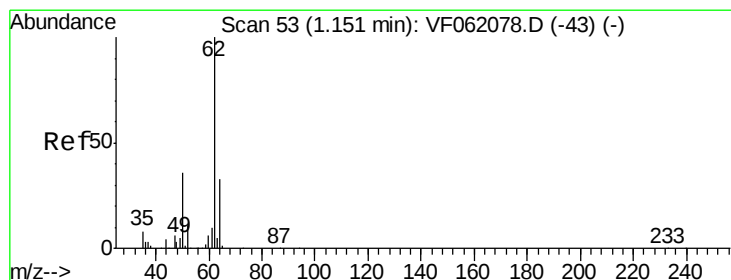
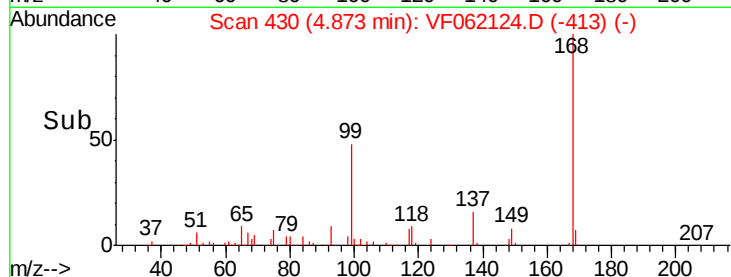
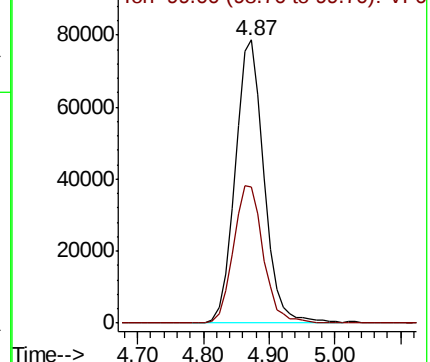
Ion Ratio Lower Upper

168 100

99 48.0 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#4

Vinyl Chloride

Concen: 23.293 ug/l

RT: 1.14 min Scan# 51

Delta R.T. -0.02 min

Lab File: VF062124.D

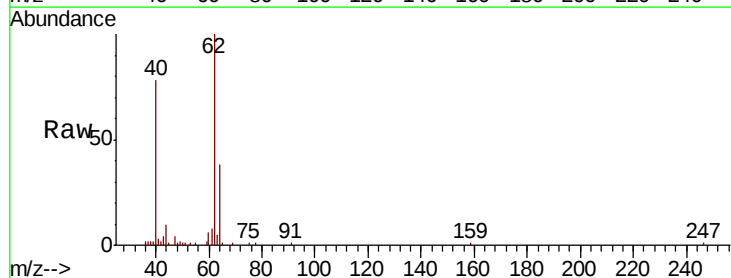
Acq: 23 Mar 2019 18:30

Tgt Ion: 62 Resp: 69675

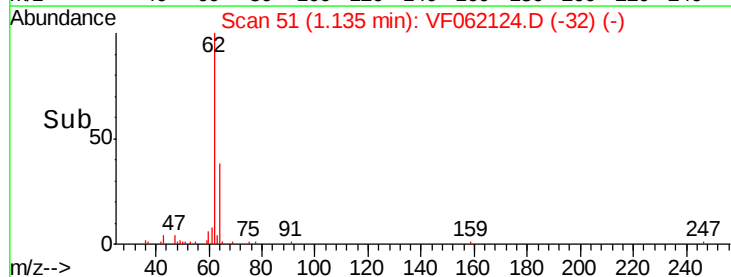
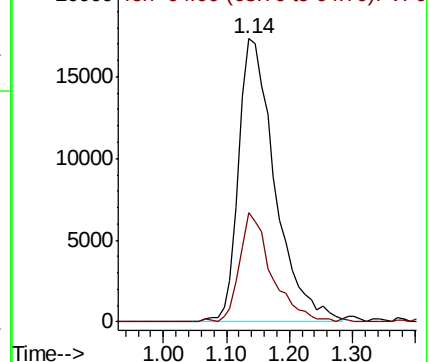
Ion Ratio Lower Upper

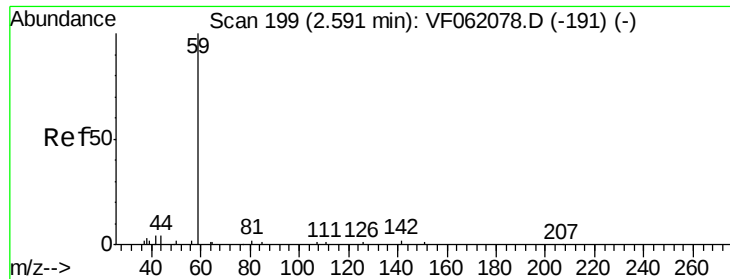
62 100

64 38.4 26.2 39.2



Abundance Ion 62.00 (61.70 to 62.70): VF0

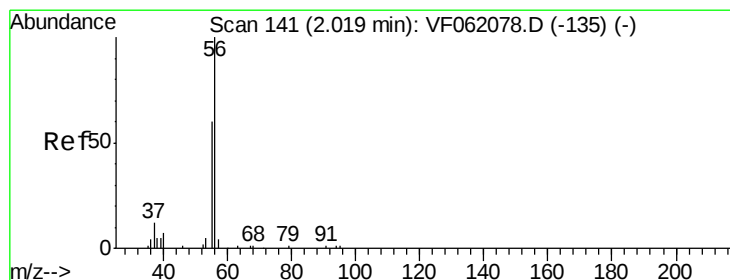
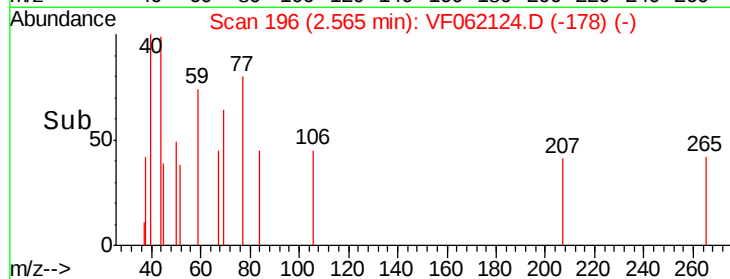
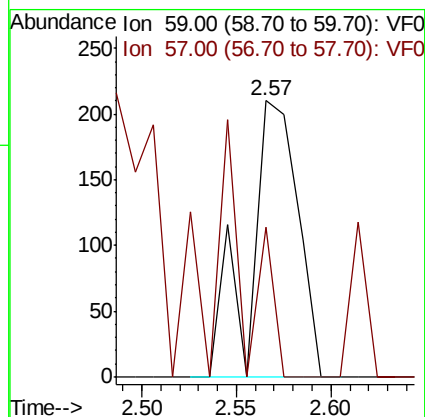
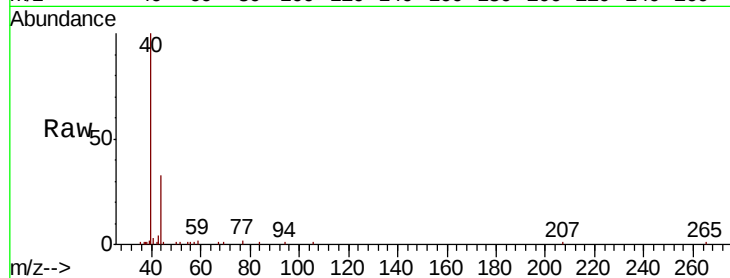




#11
Tert butyl alcohol
Concen: 3.778 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.03 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

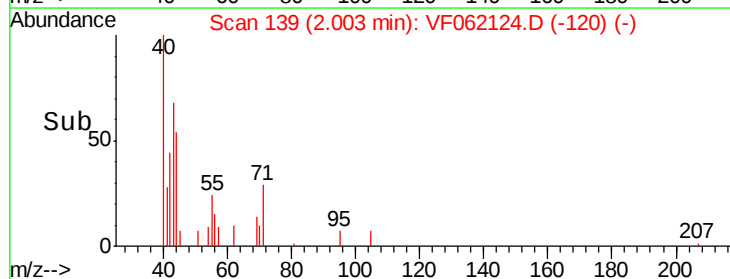
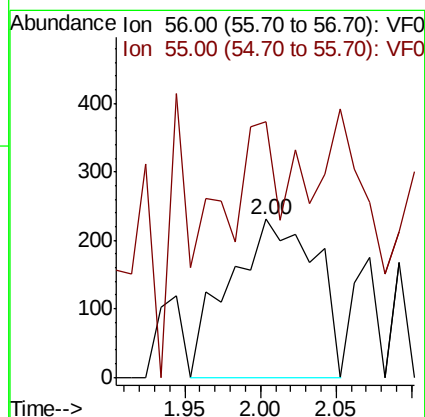
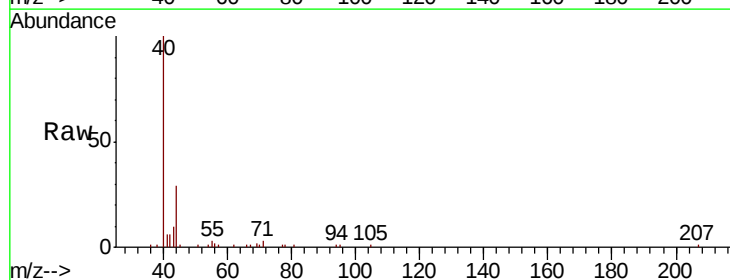
Instrument :
MSVOA_F
ClientSampled :

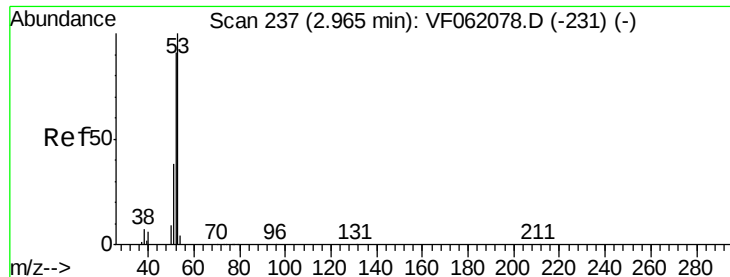
Tot Ion: 59 Resp: 373
Ion Ratio Lower Upper
59 100
57 54.3 11.0 16.4#



#13
Acrolein
Concen: 7.707 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.02 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

Tgt Ion: 56 Resp: 915
Ion Ratio Lower Upper
56 100
55 161.9 49.0 73.4#





#15

Acrylonitrile

Concen: 3.272 ug/l

RT: 2.92 min Scan# 232

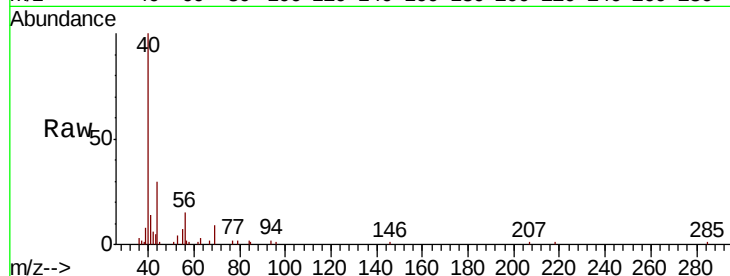
Delta R.T. -0.05 min

Lab File: VF062124.D

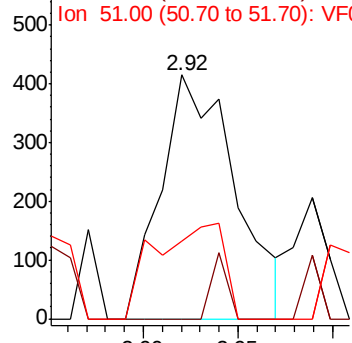
Acq: 23 Mar 2019 18:30

Instrument :
MSVOA_F
ClientSampled :

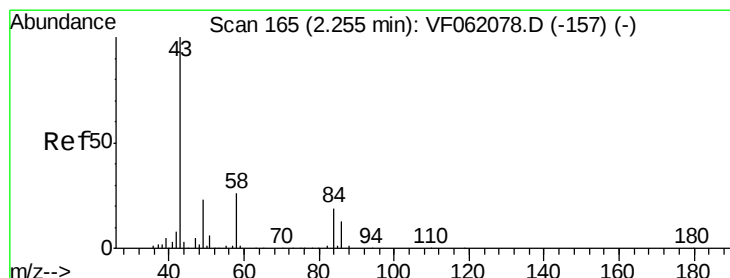
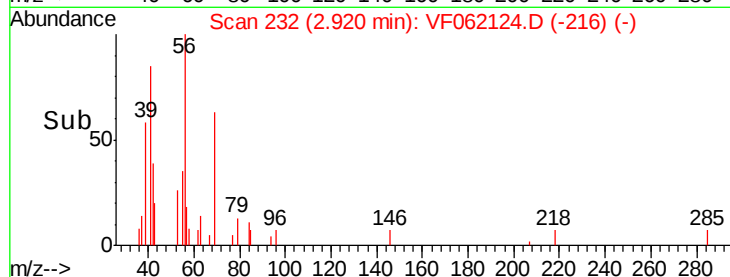
Tot Ion:	53	Resp:	1136
Ion	Ratio	Lower	Upper
53	100		
52	0.0	72.3	108.5#
51	31.6	30.4	45.6



Abundance Ion 53.00 (52.70 to 53.70): VF0
Ion 52.00 (51.70 to 52.70): VF0
Ion 51.00 (50.70 to 51.70): VF0



Time-->



#16

Acetone

Concen: 58.133 ug/l

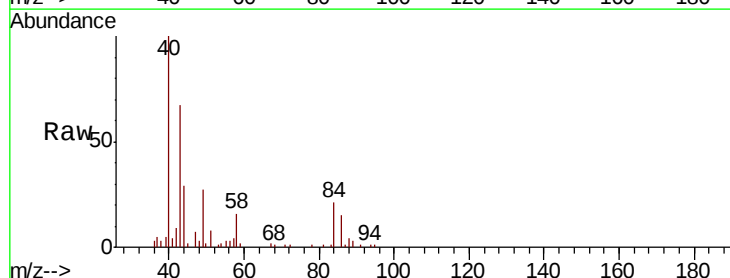
RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

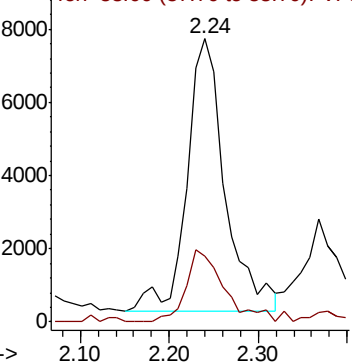
Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

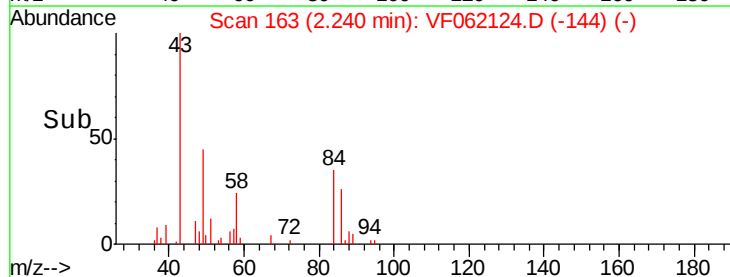
Tgt Ion:	43	Resp:	21955
Ion	Ratio	Lower	Upper
43	100		
58	23.2	20.8	31.2

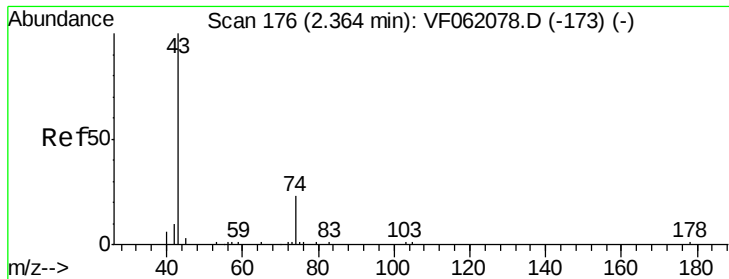


Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



Time-->

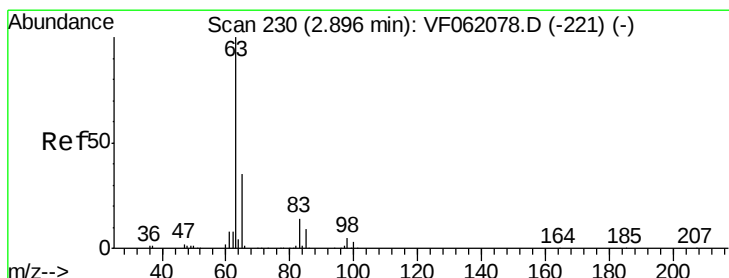
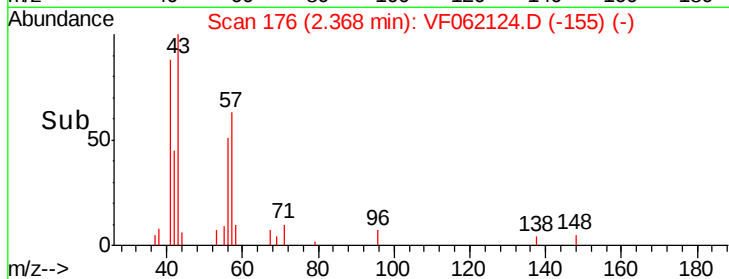
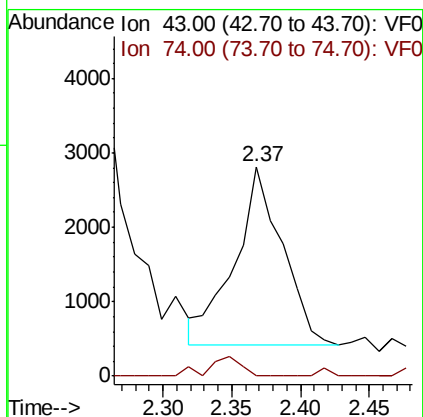
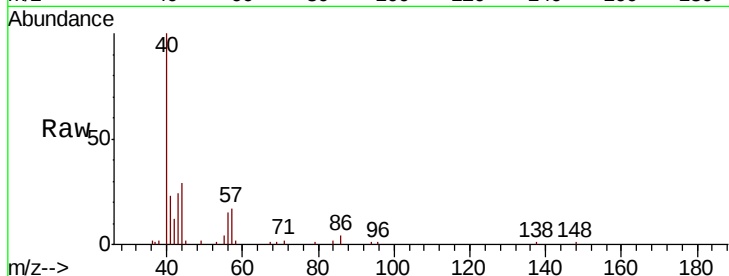




#18
Methyl Acetate
Concen: 6.416 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.01 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

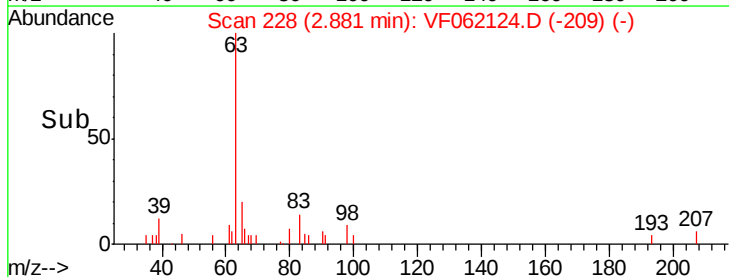
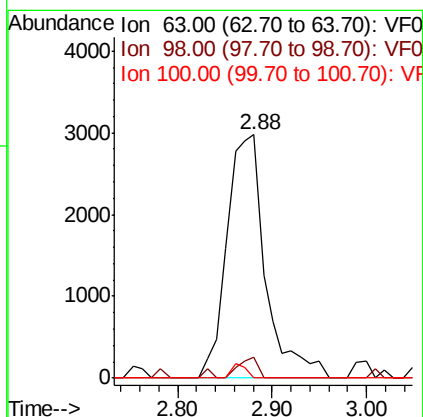
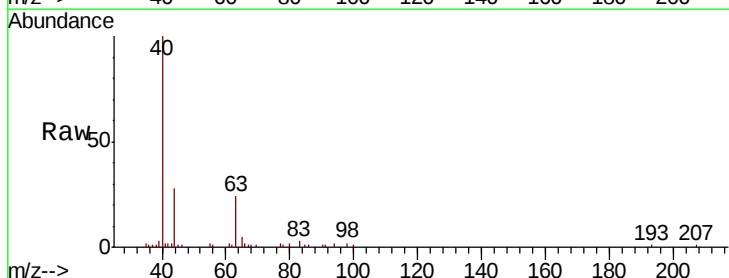
Instrument :
MSVOA_F
ClientSampled :

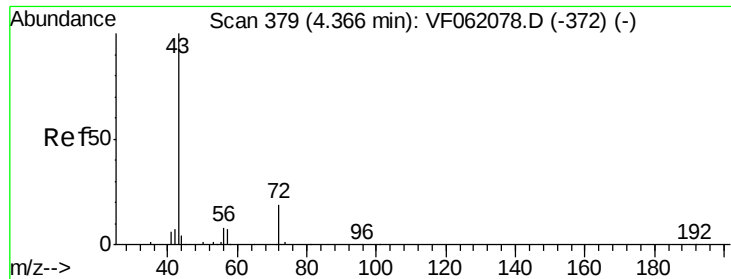
Tot Ion: 43 Resp: 5780
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#24
1,1-Dichloroethane
Concen: 2.150 ug/l
RT: 2.88 min Scan# 228
Delta R.T. -0.02 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

Tgt Ion: 63 Resp: 8393
Ion Ratio Lower Upper
63 100
98 8.7 2.7 8.1#
100 0.0 1.7 5.1#





#25

2-Butanone

Concen: 1.194 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

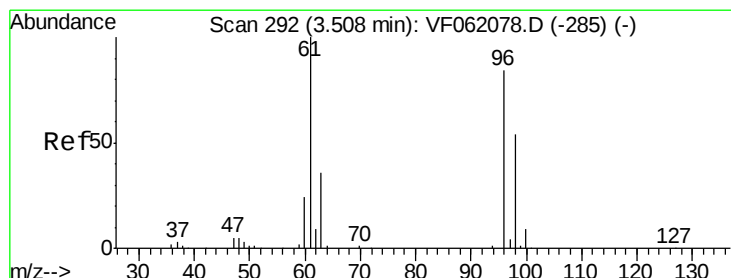
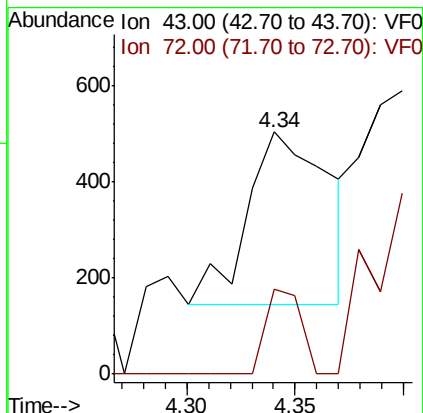
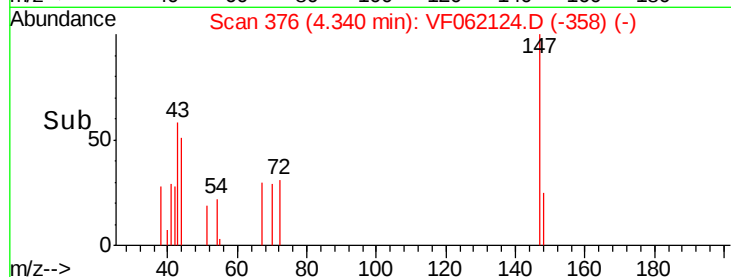
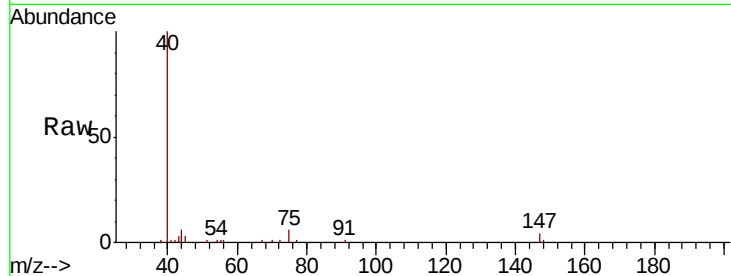
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 941

Ion Ratio Lower Upper

43 100

72 35.0 16.7 25.1#



#27

cis-1,2-Dichloroethene

Concen: 15.829 ug/l

RT: 3.47 min Scan# 288

Delta R.T. -0.04 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

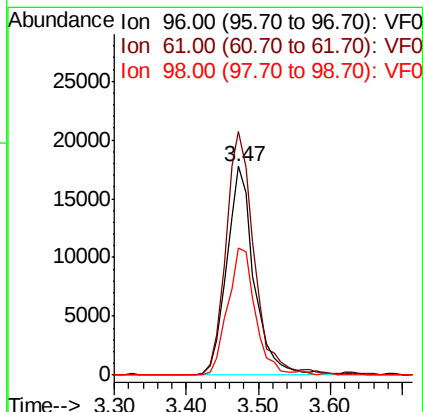
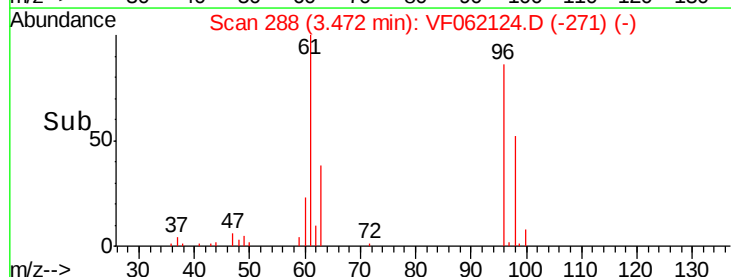
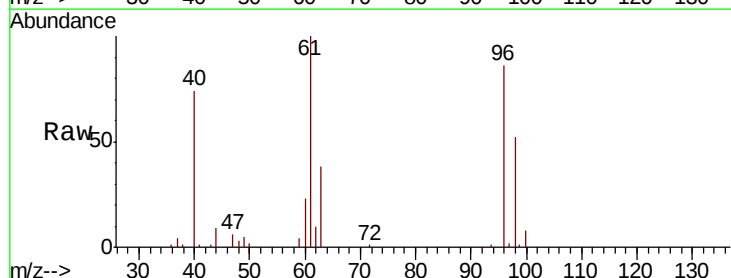
Tgt Ion: 96 Resp: 46933

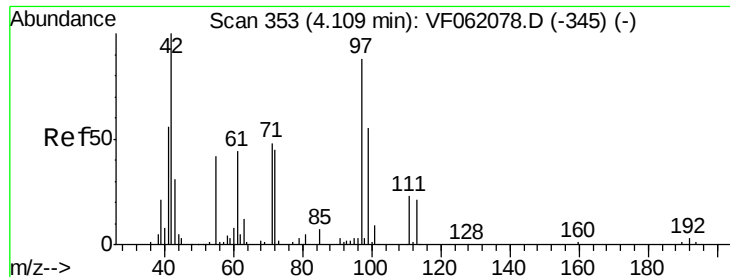
Ion Ratio Lower Upper

96 100

61 116.6 0.0 239.0

98 60.8 0.0 128.2





#29

Tetrahydrofuran

Concen: 4.268 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

Instrument :

MSVOA_F

ClientSampleId :

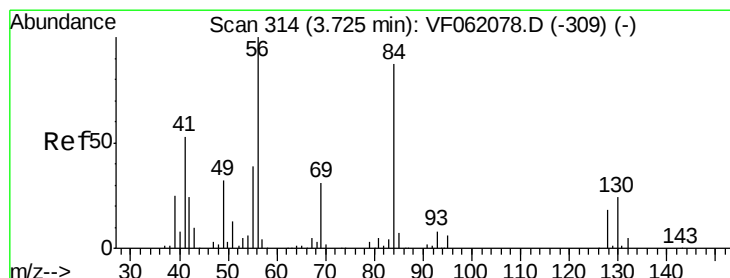
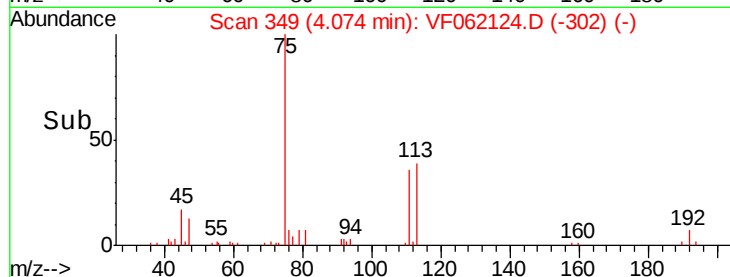
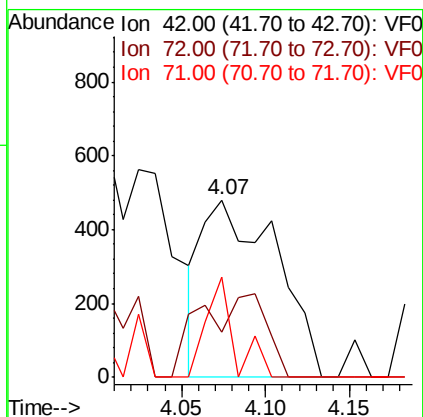
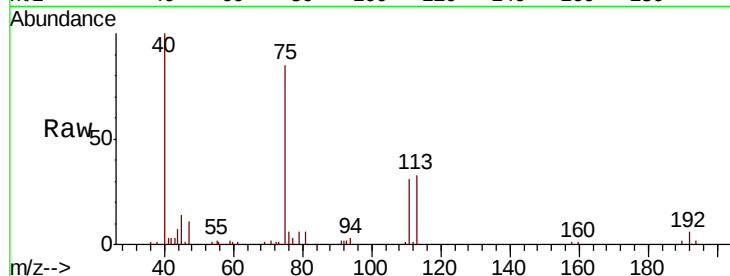
Tot Ion: 42 Resp: 1463

Ion Ratio Lower Upper

42 100

72 19.8 33.3 49.9#

71 21.6 35.0 52.4#



#31

Cyclohexane

Concen: 1.902 ug/l

RT: 3.70 min Scan# 311

Delta R.T. -0.03 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

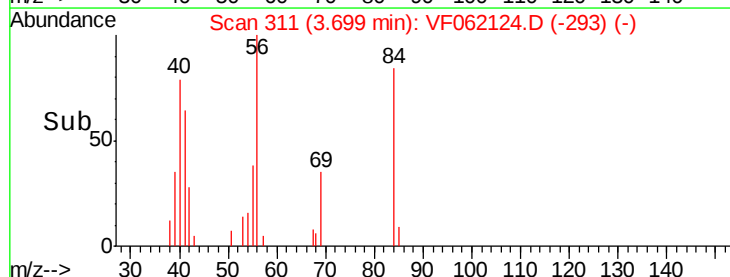
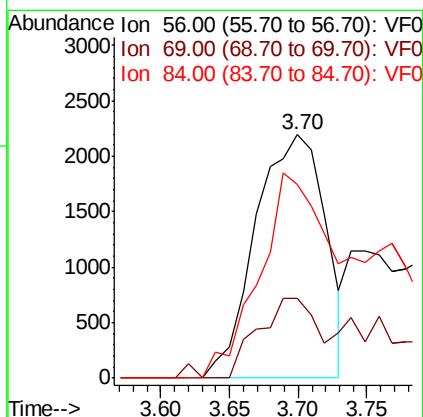
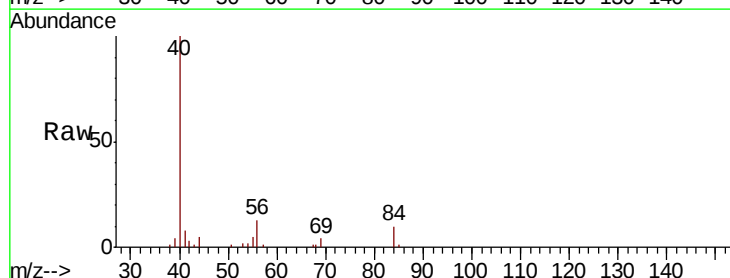
Tgt Ion: 56 Resp: 7756

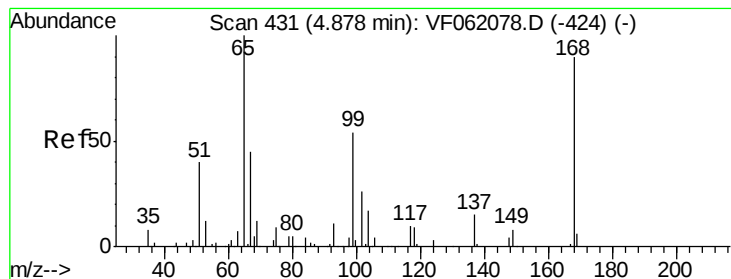
Ion Ratio Lower Upper

56 100

69 32.8 25.9 38.9

84 79.3 71.1 106.7





#33

1,2-Dichloroethane-d4

Concen: 42.737 ug/l

RT: 4.84 min Scan# 427

Delta R.T. -0.04 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

Instrument :

MSVOA_F

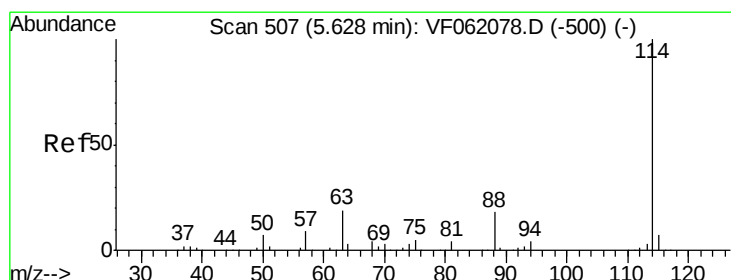
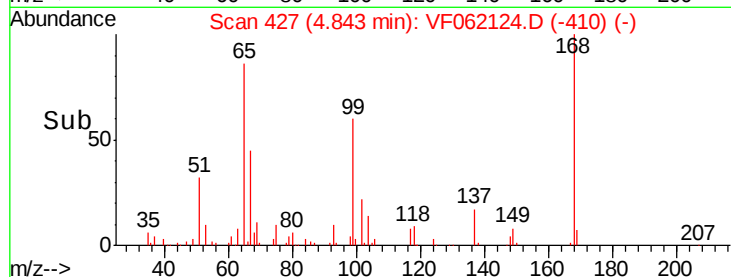
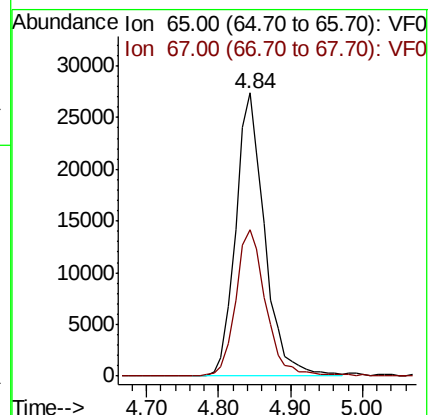
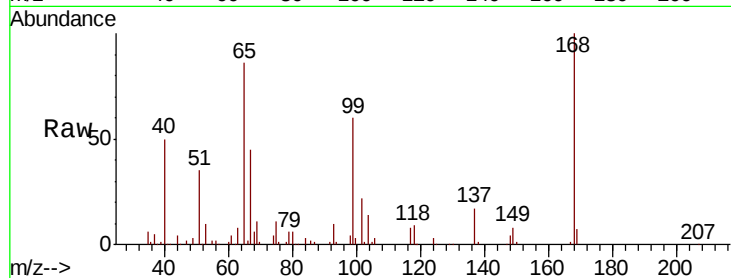
ClientSampleId :

Tot Ion: 65 Resp: 76688

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.59 min Scan# 503

Delta R.T. -0.04 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

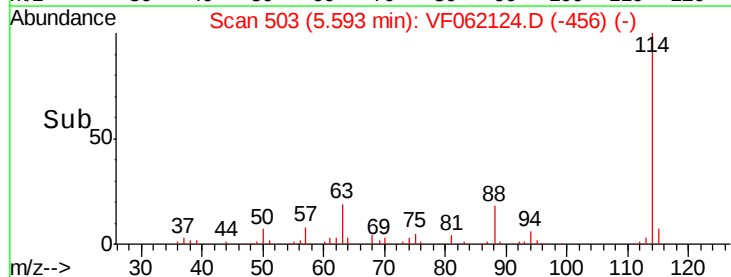
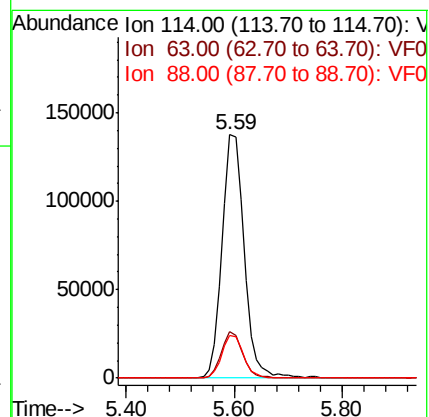
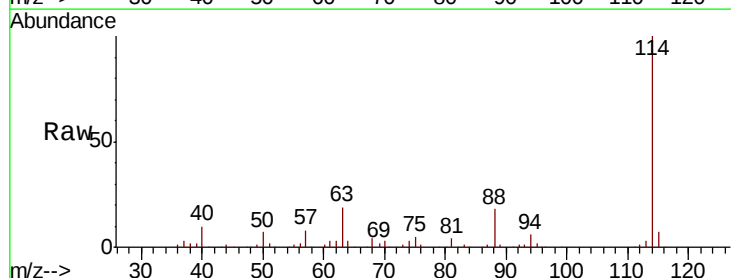
Tgt Ion: 114 Resp: 390597

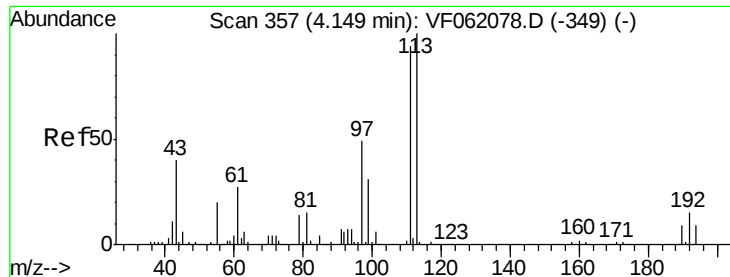
Ion Ratio Lower Upper

114 100

63 18.9 0.0 37.8

88 17.7 0.0 36.4

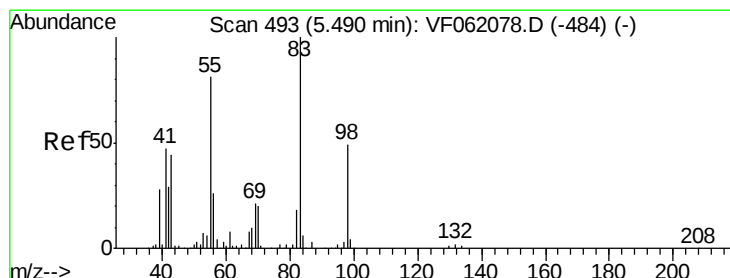
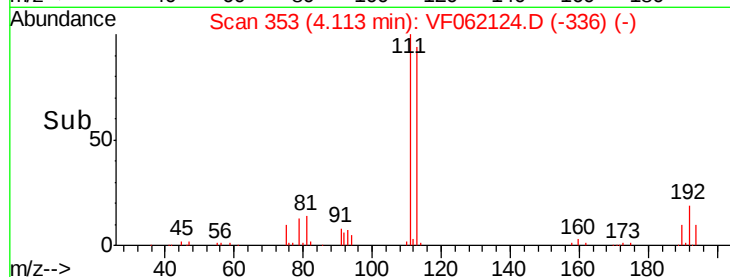
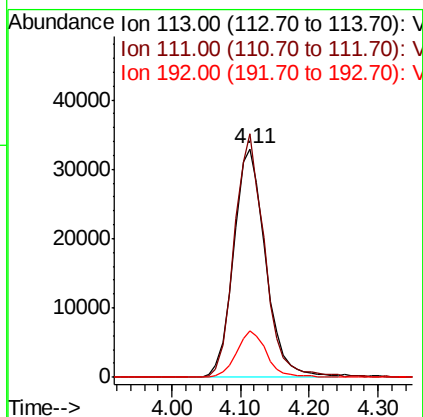
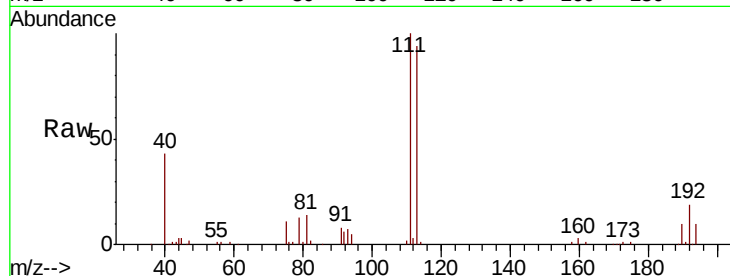




#35
Dibromofluoromethane
Concen: 39.980 ug/l
RT: 4.11 min Scan# 353
Delta R.T. -0.04 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

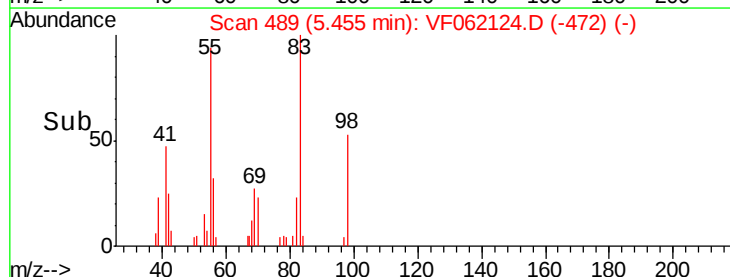
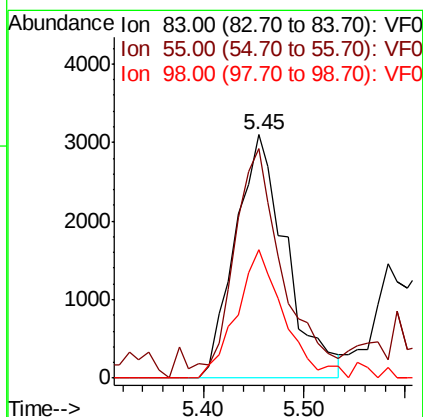
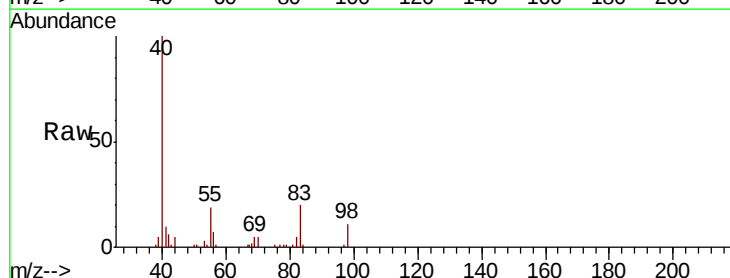
Instrument :
MSVOA_F
ClientSampleId :

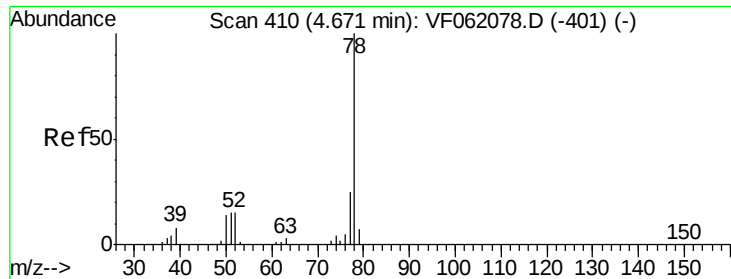
Tot Ion:113 Resp: 105637
Ion Ratio Lower Upper
113 100
111 106.6 75.4 113.0
192 20.1 12.3 18.5#



#39
Methylcyclohexane
Concen: 2.526 ug/l
RT: 5.45 min Scan# 489
Delta R.T. -0.04 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

Tgt Ion: 83 Resp: 10909
Ion Ratio Lower Upper
83 100
55 94.3 64.5 96.7
98 52.6 39.1 58.7





#40

Benzene

Concen: 12.114 ug/l

RT: 4.63 min Scan# 405

Delta R.T. -0.05 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

Instrument :

MSVOA_F

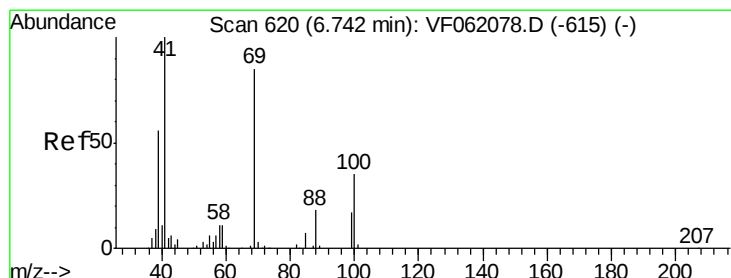
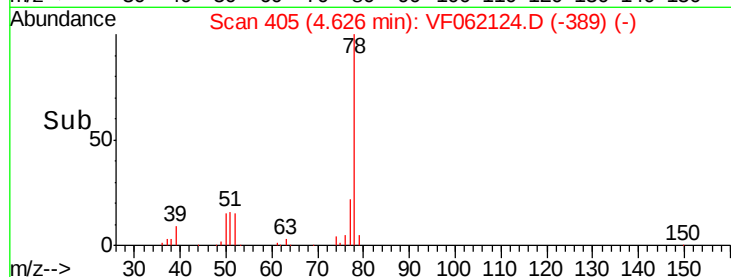
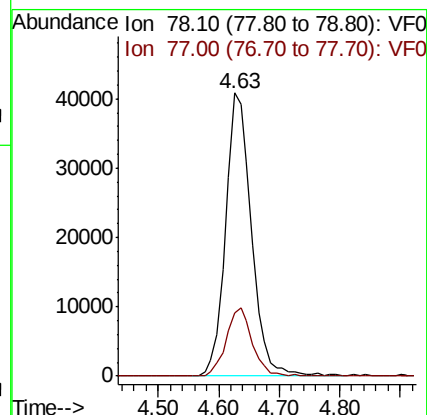
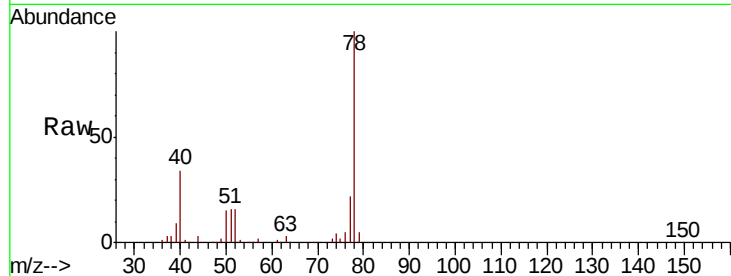
ClientSampleId :

Tot Ion: 78 Resp: 120823

Ion Ratio Lower Upper

78 100

77 22.3 19.8 29.6



#49

1,4-Dioxane

Concen: 6.506 ug/l

RT: 6.55 min Scan# 600

Delta R.T. -0.19 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

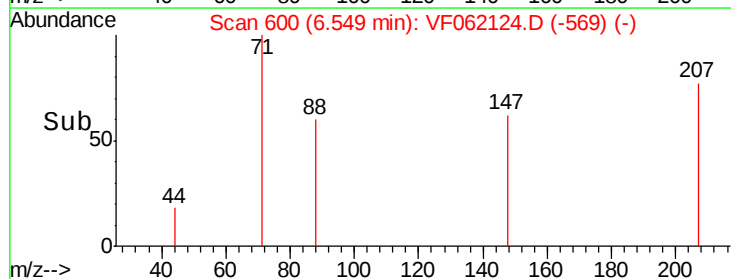
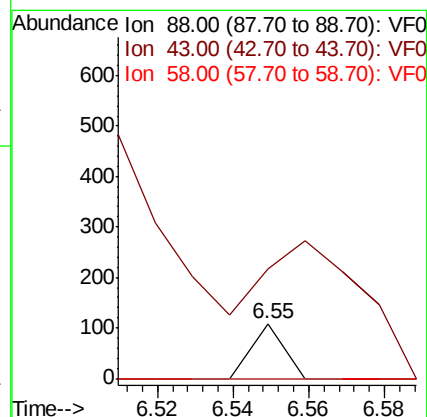
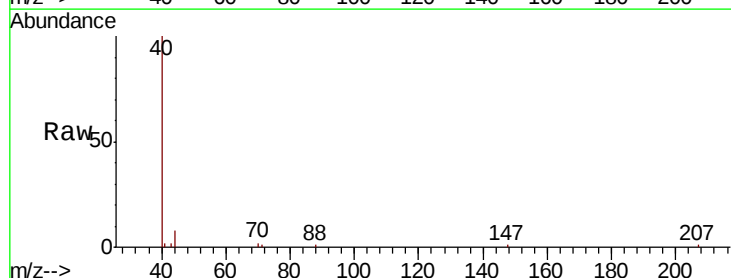
Tgt Ion: 88 Resp: 64

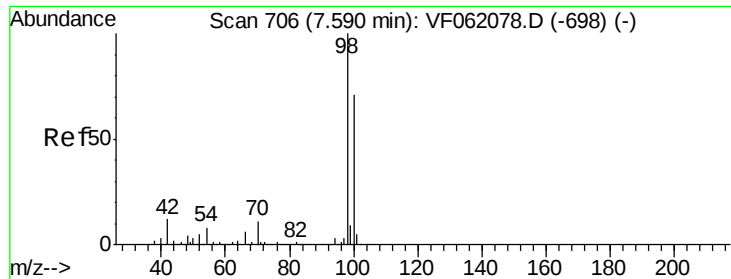
Ion Ratio Lower Upper

88 100

43 201.9 35.0 52.4#

58 0.0 49.9 74.9#

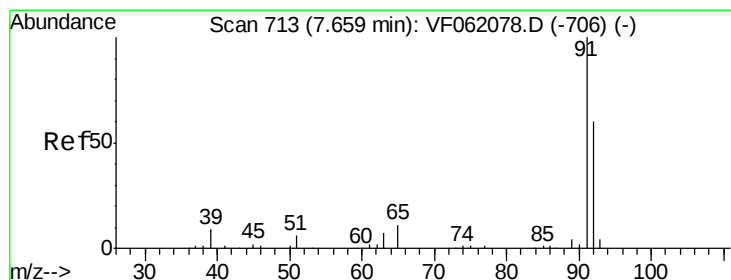
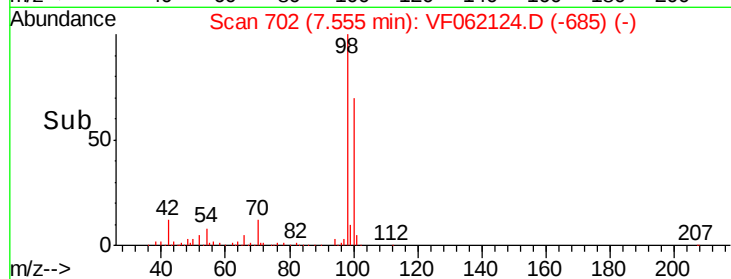
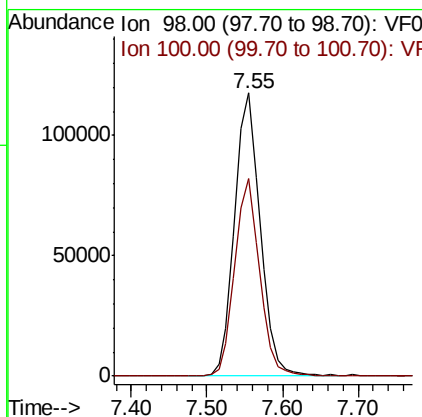
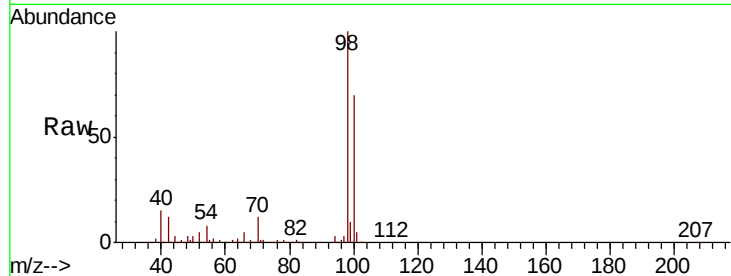




#50
Toluene-d8
Concen: 35.072 ug/l
RT: 7.55 min Scan# 702
Delta R.T. -0.04 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

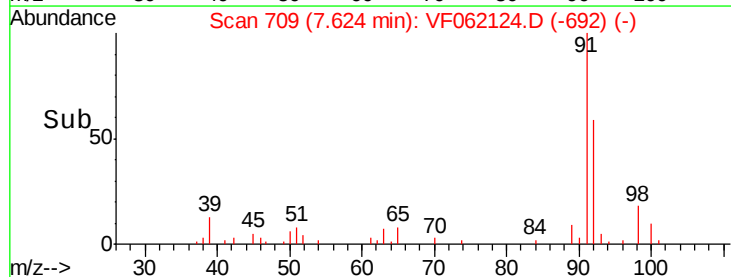
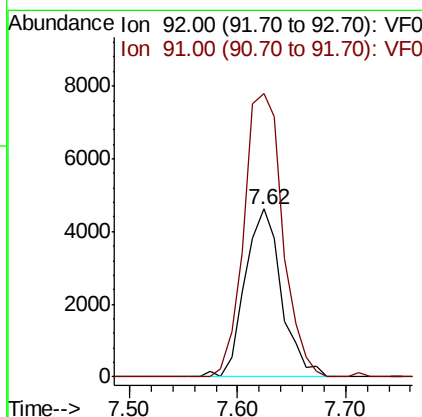
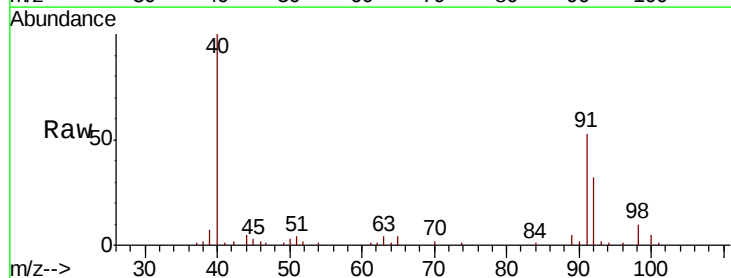
Instrument :
MSVOA_F
ClientSampleId :

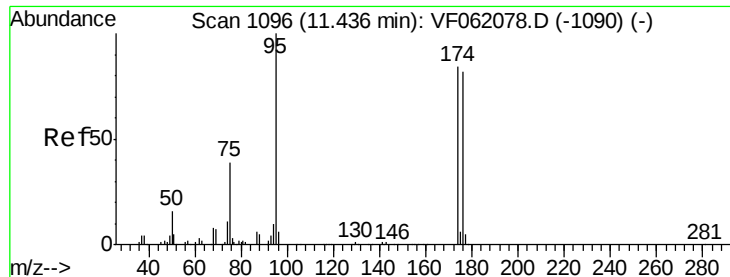
Tot Ion: 98 Resp: 276614
Ion Ratio Lower Upper
98 100
100 70.0 57.0 85.6



#52
Toluene
Concen: 1.873 ug/l
RT: 7.62 min Scan# 709
Delta R.T. -0.04 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

Tgt Ion: 92 Resp: 10818
Ion Ratio Lower Upper
92 100
91 168.4 134.1 201.1





#62

4-Bromofluorobenzene

Concen: 39.007 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

Instrument :

MSVOA_F

ClientSampleId :

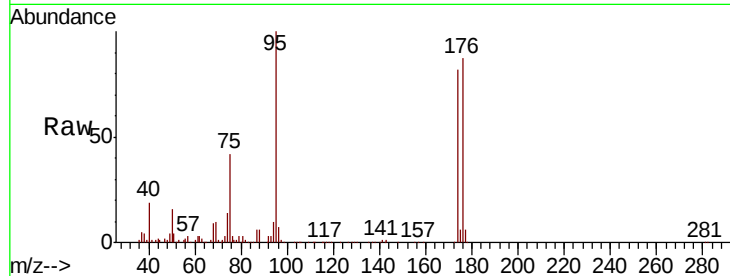
Tot Ion: 95 Resp: 118770

Ion Ratio Lower Upper

95 100

174 82.4 0.0 168.2

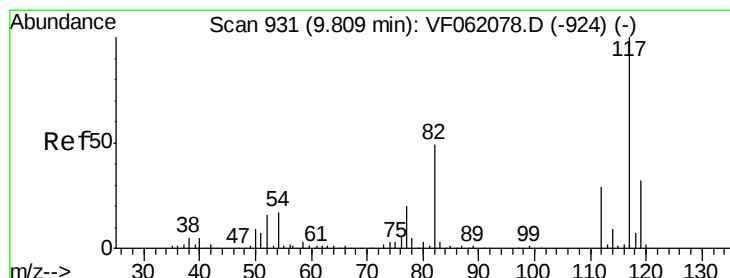
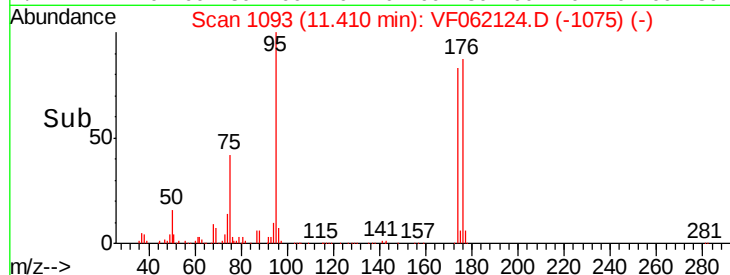
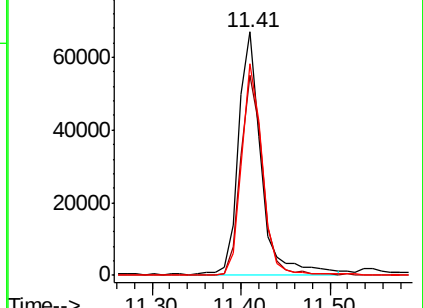
176 86.7 0.0 164.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

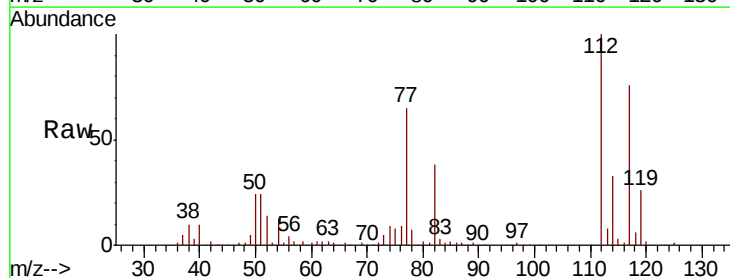
Tgt Ion: 117 Resp: 315687

Ion Ratio Lower Upper

117 100

82 50.2 39.2 58.8

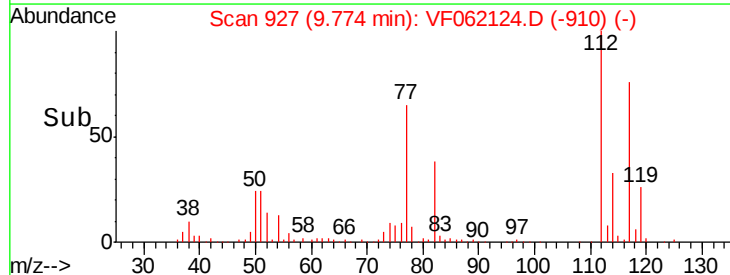
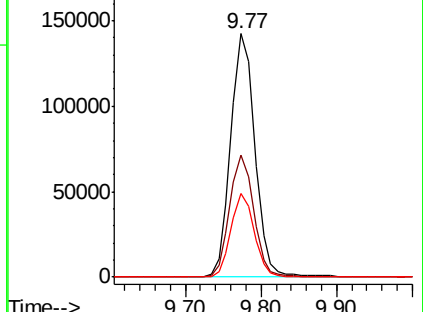
119 34.2 25.4 38.2

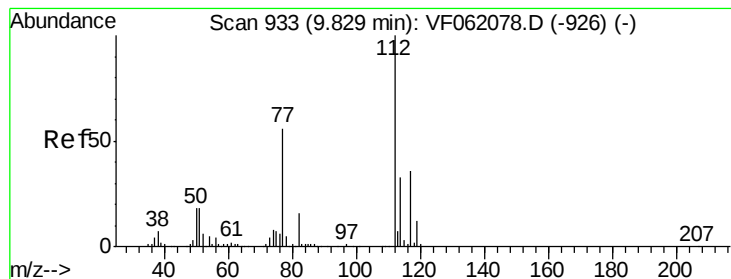


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#65

Chlorobenzene

Concen: 303.939 ug/l

RT: 9.80 min Scan# 930

Delta R.T. -0.03 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

Instrument :

MSVOA_F

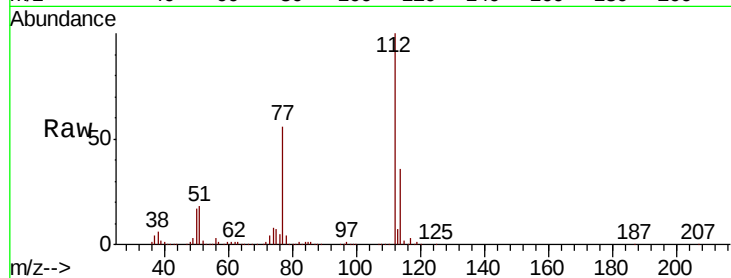
ClientSampled :

Tot Ion:112 Resp: 1795284

Ion Ratio Lower Upper

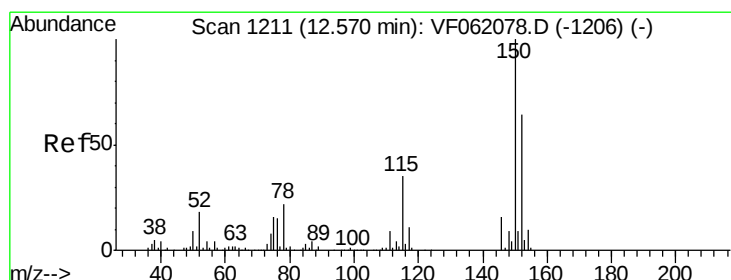
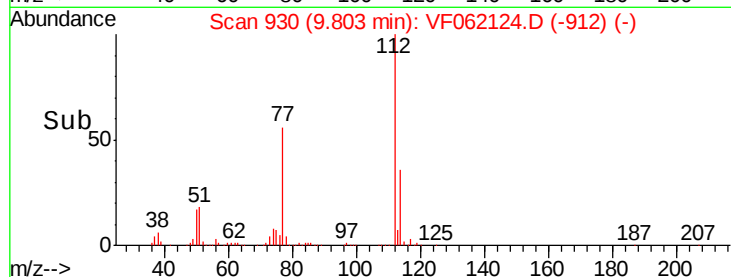
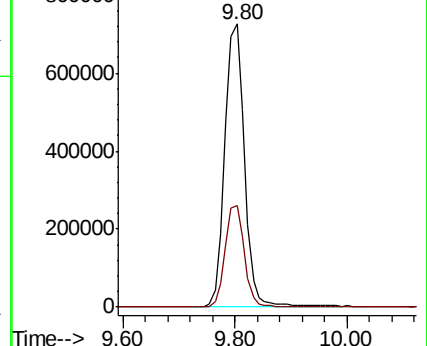
112 100

114 36.0 26.0 39.0



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF062124.D

Acq: 23 Mar 2019 18:30

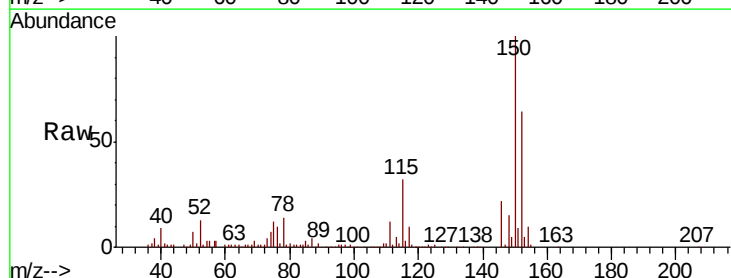
Tgt Ion:152 Resp: 171250

Ion Ratio Lower Upper

152 100

115 50.2 27.7 83.1

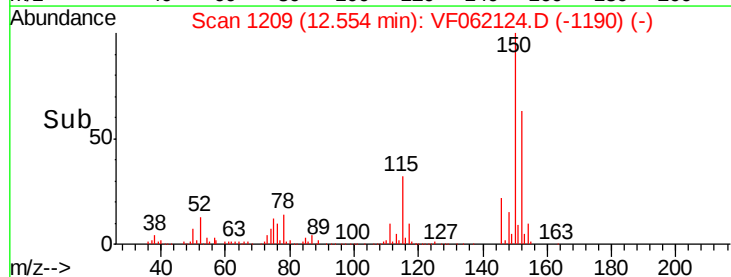
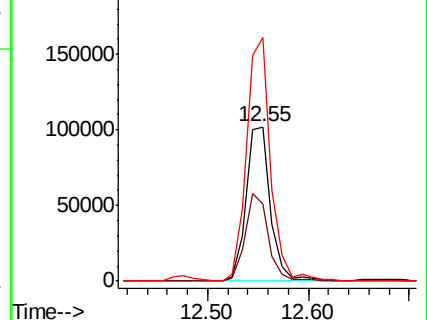
150 157.4 0.0 313.2

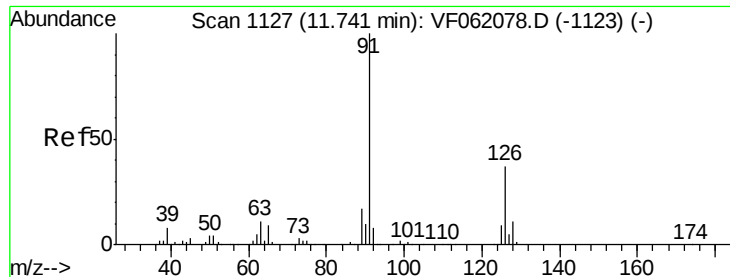


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

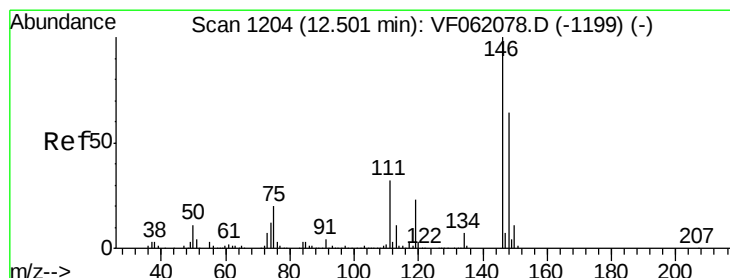
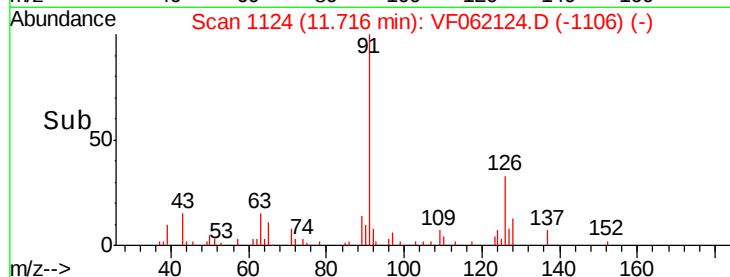
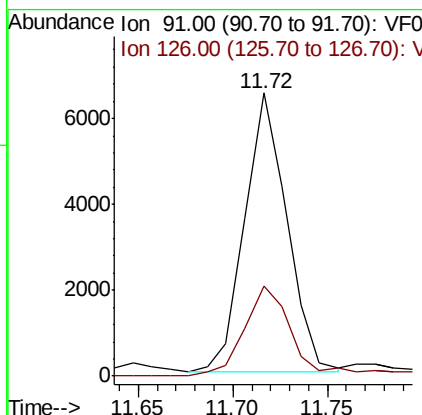
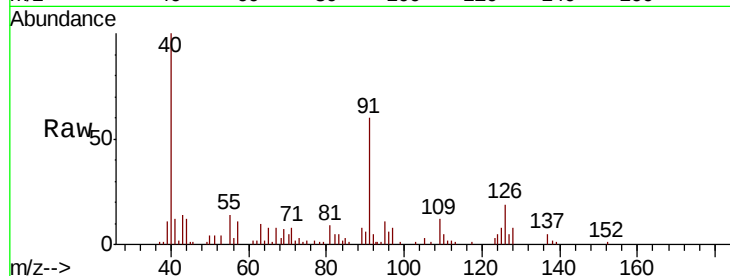




#79
2-Chlorotoluene
Concen: 1.293 ug/l
RT: 11.72 min Scan# 1124
Delta R.T. -0.03 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

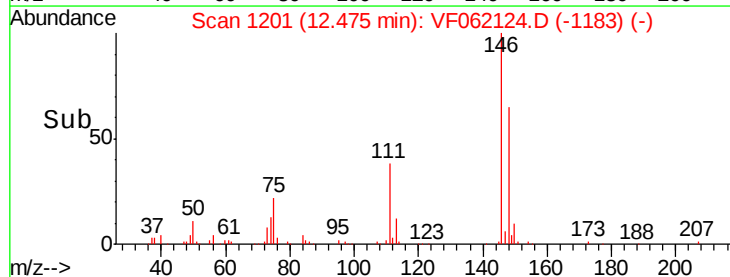
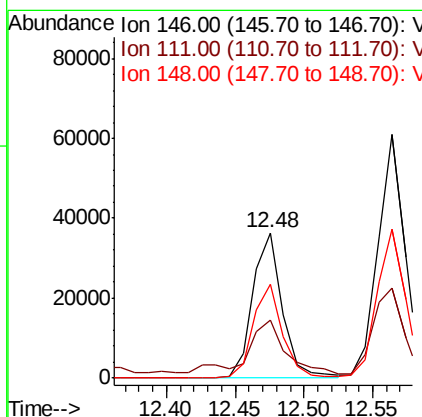
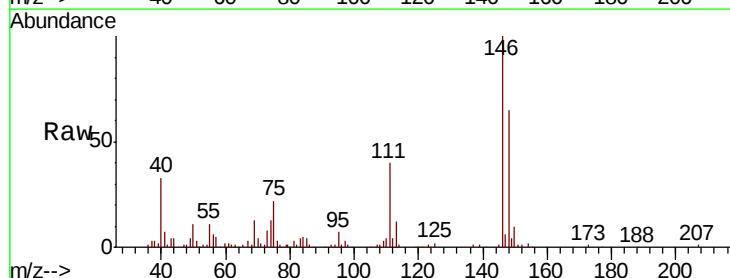
Instrument :
MSVOA_F
ClientSampleId :

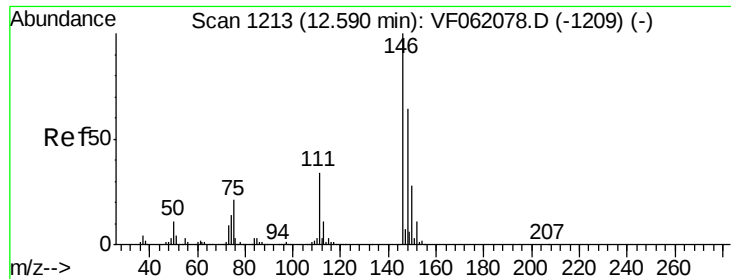
Tot Ion: 91 Resp: 10054
Ion Ratio Lower Upper
91 100
126 31.9 18.3 54.8



#87
1,3-Dichlorobenzene
Concen: 9.982 ug/l
RT: 12.48 min Scan# 1201
Delta R.T. -0.03 min
Lab File: VF062124.D
Acq: 23 Mar 2019 18:30

Tgt Ion: 146 Resp: 54598
Ion Ratio Lower Upper
146 100
111 39.5 16.1 48.3
148 64.9 31.9 95.7

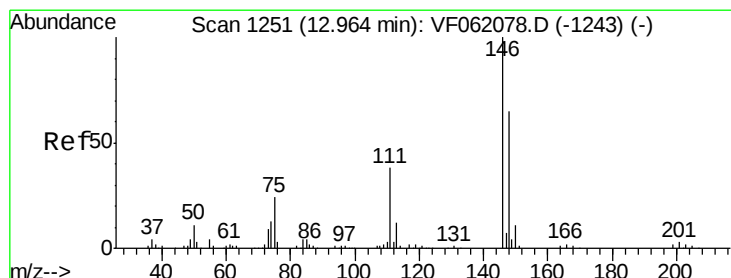
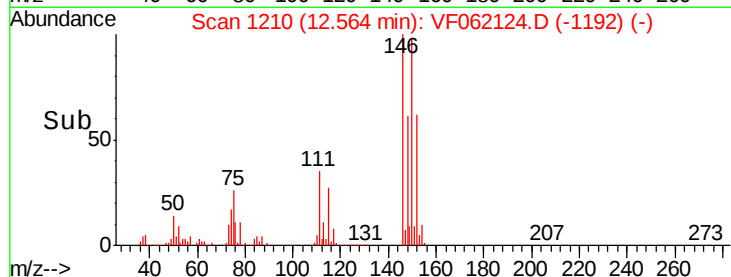
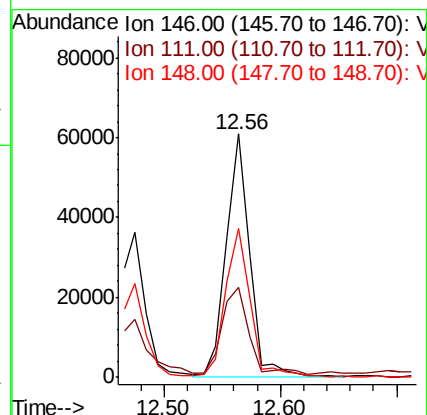
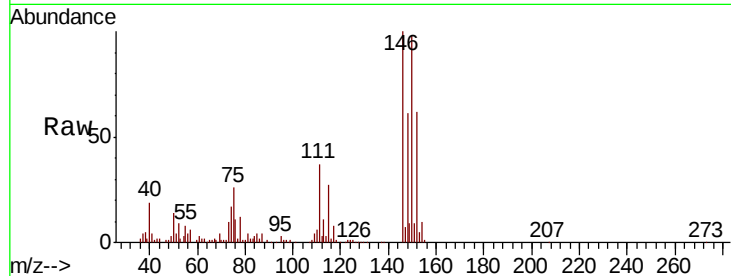




#88
 1,4-Dichlorobenzene
 Concen: 15.848 ug/l
 RT: 12.56 min Scan# 1210
 Delta R.T. -0.03 min
 Lab File: VF062124.D
 Acq: 23 Mar 2019 18:30

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.0	16.9	50.6
148	61.1	31.9	95.7



#91
 1,2-Dichlorobenzene
 Concen: 8.945 ug/l
 RT: 12.94 min Scan# 1248
 Delta R.T. -0.03 min
 Lab File: VF062124.D
 Acq: 23 Mar 2019 18:30

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.0	19.1	57.3
148	58.1	32.8	98.3

