

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041819\
 Data File : VF062213.D
 Acq On : 18 Apr 2019 19:06
 Operator : FY/SY
 Sample : K2193-07
 Misc : 6.15g/5mL/MSVOA F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Apr 19 01:20:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 18 07:43:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.05	168	398997	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.77	114	593137	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.91	117	405313	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.61	152	204244	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.03	65	184067	50.31	ug/l	0.02
Spiked Amount	50.000		Recovery	=	100.62%	
35) Dibromofluoromethane	4.30	113	244304	47.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.18%	
50) Toluene-d8	7.70	98	528793	40.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.52%	
62) 4-Bromofluorobenzene	11.49	95	216810	42.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	85.82%	

Target Compounds

					Qvalue
5) Bromomethane	1.39	94	1471	0.470 ug/l #	7
6) Chloroethane	1.44	64	951	0.422 ug/l #	79
8) Diethyl Ether	1.71	74	1019	0.716 ug/l	51
11) Tert butyl alcohol	2.70	59	1046	4.113 ug/l #	44
13) Acrolein	2.10	56	716	Below Cal	83
14) Allyl chloride	2.18	41	1967	0.386 ug/l #	72
15) Acrylonitrile	3.06	53	2112	2.727 ug/l #	17
16) Acetone	2.34	43	6872	7.858 ug/l #	87
18) Methyl Acetate	2.49	43	4090	Below Cal #	84
20) Methylene Chloride	2.35	84	13706	Below Cal #	86
25) 2-Butanone	4.52	43	4017	2.297 ug/l #	56
26) 2,2-Dichloropropane	3.73	77	986	0.274 ug/l	89
29) Tetrahydrofuran	4.27	42	3007	3.799 ug/l #	81
36) 1,1-Dichloropropene	4.22	75	51783	7.282 ug/l #	41
41) Methacrylonitrile	4.94	41	646	0.334 ug/l #	23
48) Methyl methacrylate	6.84	41	1747	0.753 ug/l #	55
49) 1,4-Dioxane	6.86	88	102	3.834 ug/l #	1
51) 4-Methyl-2-Pentanone	8.40	43	6336	2.414 ug/l	90
52) Toluene	7.77	92	6036	0.614 ug/l #	74
55) 1,1,2-Trichloroethane	8.62	97	642	0.233 ug/l #	1
56) Ethyl methacrylate	8.78	69	6871	2.194 ug/l #	73
58) 2-Chloroethyl Vinyl ether	7.45	63	869	0.956 ug/l #	62
59) 2-Hexanone	9.63	43	4420	2.836 ug/l	77
67) Ethyl Benzene	10.03	91	26462	1.684 ug/l	93
68) m/p-Xylenes	10.26	106	17225	2.977 ug/l	96
69) o-Xylene	10.82	106	58956	9.179 ug/l	100
73) Isopropylbenzene	11.21	105	20215	1.152 ug/l	95
74) N-amyl acetate	11.47	43	7830	Below Cal #	48
75) 1,1,2,2-Tetrachloroethane	11.75	83	7819	2.591 ug/l #	1
76) 1,2,3-Trichloropropane	11.89	75	3242	1.562 ug/l #	1
78) n-propylbenzene	11.67	91	88280	4.770 ug/l	98
79) 2-Chlorotoluene	11.79	91	36328	3.236 ug/l #	44
80) 1,3,5-Trimethylbenzene	11.89	105	281011	19.231 ug/l	96
81) trans-1,4-Dichloro-2-buten	11.89	75	3242	3.062 ug/l #	1

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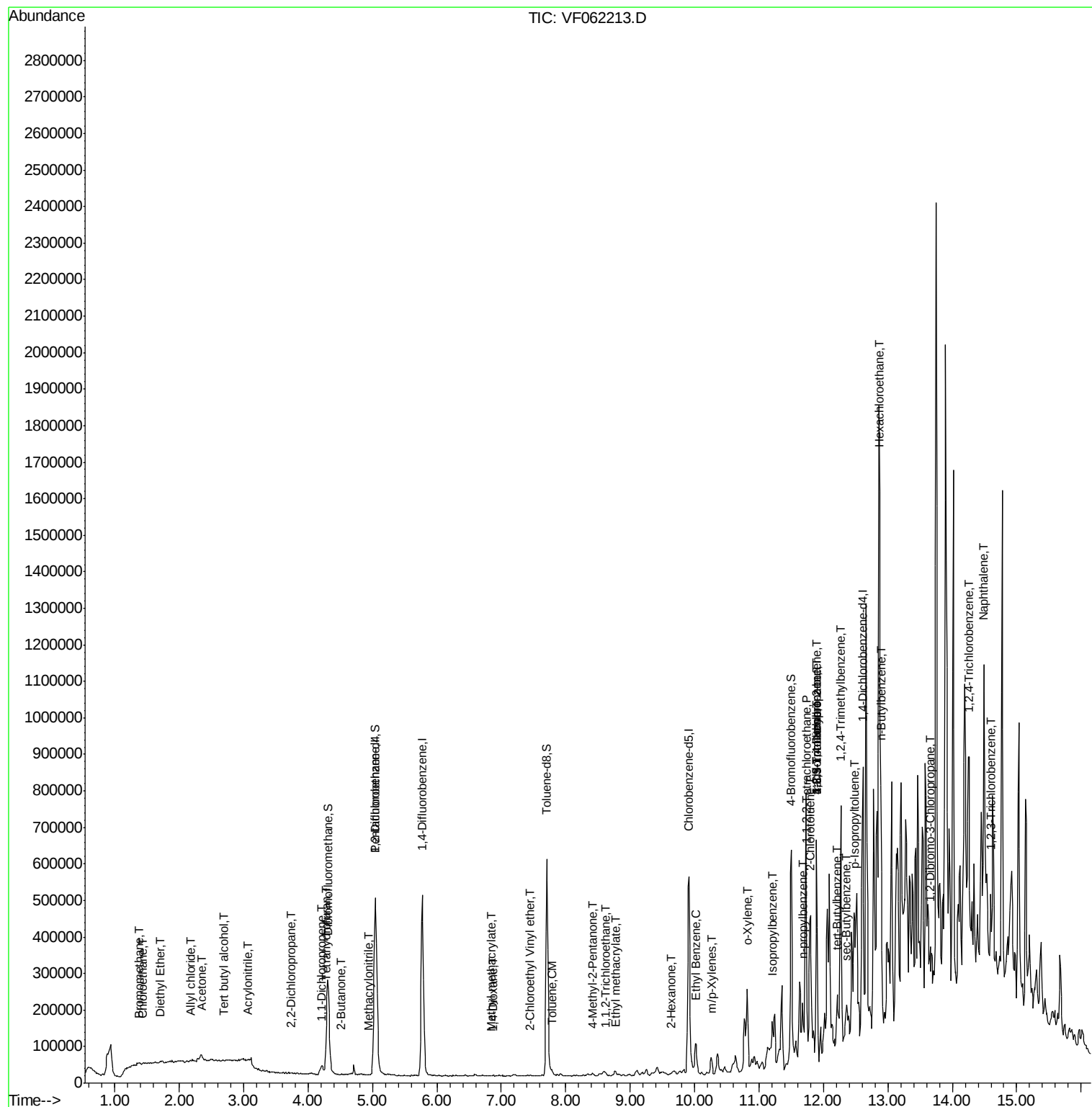
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
82) 4-Chlorotoluene	11.89	91	27063	2.494	ug/l #	42
83) tert-Butylbenzene	12.20	119	4167	0.276	ug/l	81
84) 1,2,4-Trimethylbenzene	12.27	105	166228	11.755	ug/l	96
85) sec-Butylbenzene	12.37	105	51494	2.625	ug/l	82
86) p-Isopropyltoluene	12.49	119	133495	8.022	ug/l	100
89) n-Butylbenzene	12.90	91	137738	5.438	ug/l #	40
90) Hexachloroethane	12.88	117	26638	6.233	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	13.67	75	1292	2.179	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.24	180	1318	0.234	ug/l #	11
95) Naphthalene	14.50	128	44632	4.530	ug/l #	37
96) 1,2,3-Trichlorobenzene	14.59	180	3199	0.591	ug/l #	1

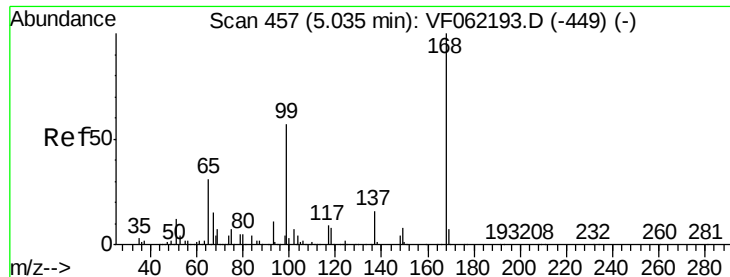
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.05 min Scan# 459

Delta R.T. 0.02 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

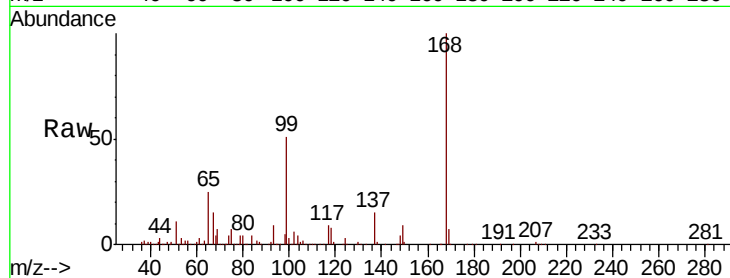
ClientSampleId :

Tot Ion:168 Resp: 398997

Ion Ratio Lower Upper

168 100

99 51.1 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): VF0

Ion 98.90 (98.60 to 99.60): VF0

5.05

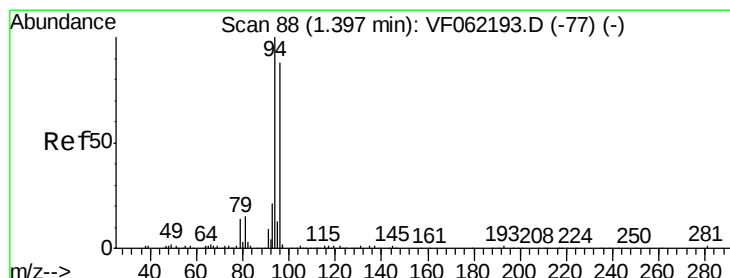
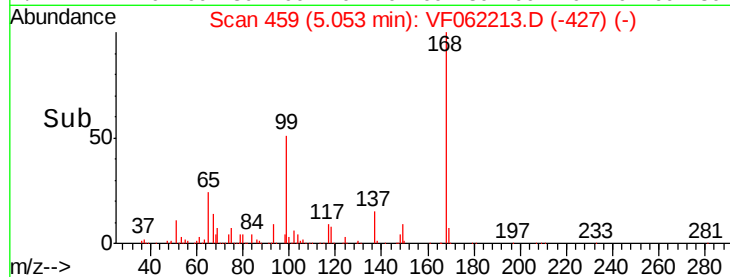
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.470 ug/l

RT: 1.39 min Scan# 87

Delta R.T. -0.01 min

Lab File: VF062213.D

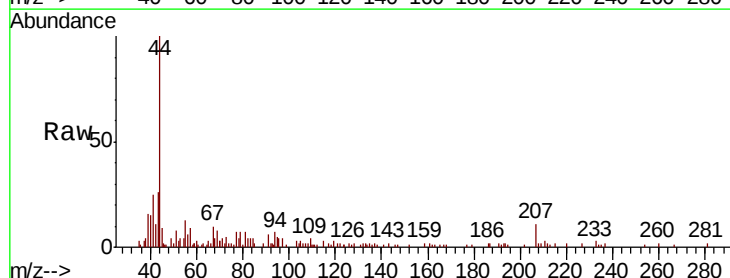
Acq: 18 Apr 2019 19:06

Tgt Ion: 94 Resp: 1471

Ion Ratio Lower Upper

94 100

96 1.1 70.2 105.4#



Abundance Ion 93.90 (93.60 to 94.60): VF0

Ion 95.90 (95.60 to 96.60): VF0

1.39

800

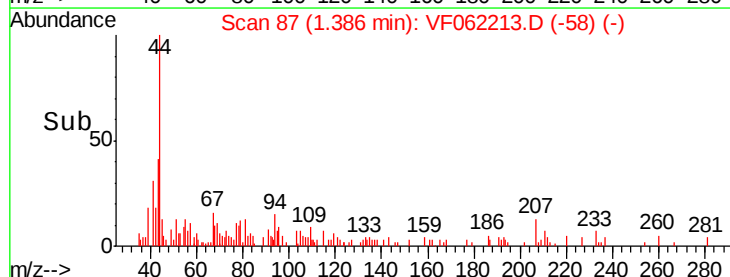
600

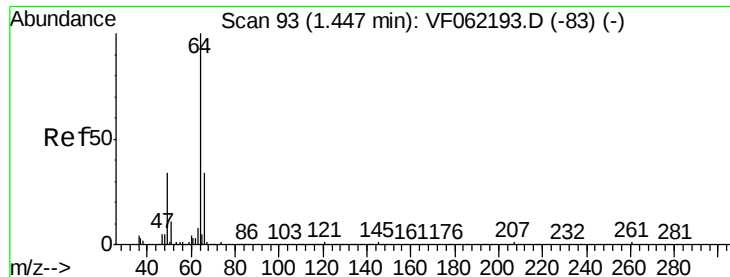
400

200

0

Time-->





#6

Chloroethane

Concen: 0.422 ug/l

RT: 1.44 min Scan# 92

Delta R.T. -0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

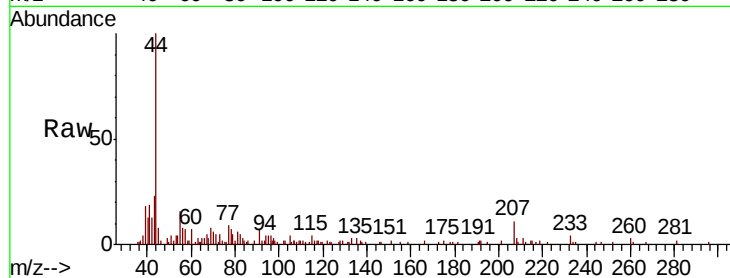
ClientSampleId :

Tot Ion: 64 Resp: 951

Ion Ratio Lower Upper

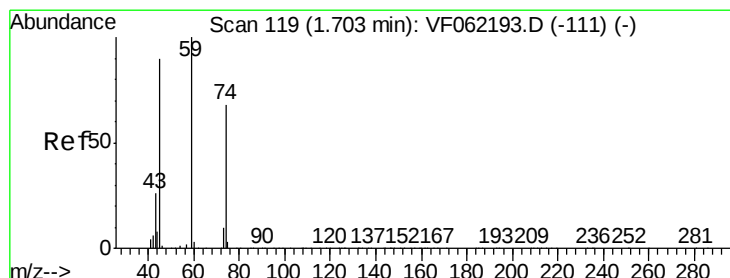
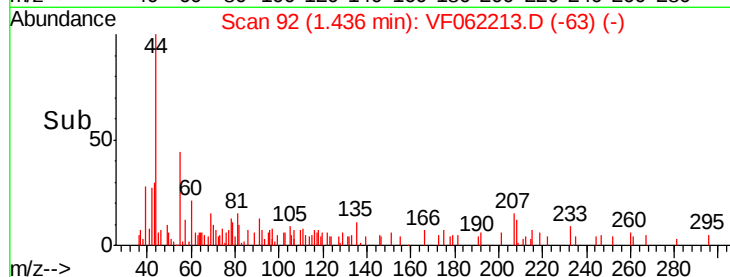
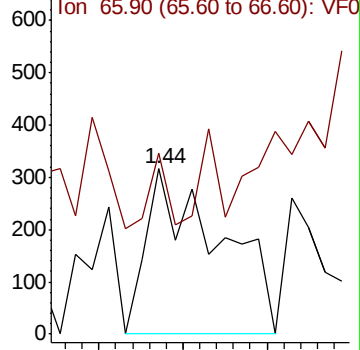
64 100

66 45.9 27.0 40.4#



Abundance Ion 63.90 (63.60 to 64.60): VF0

Ion 65.90 (65.60 to 66.60): VF0



#8

Diethyl Ether

Concen: 0.716 ug/l

RT: 1.71 min Scan# 120

Delta R.T. 0.01 min

Lab File: VF062213.D

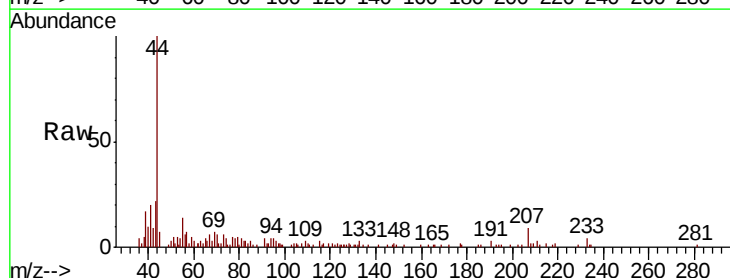
Acq: 18 Apr 2019 19:06

Tgt Ion: 74 Resp: 1019

Ion Ratio Lower Upper

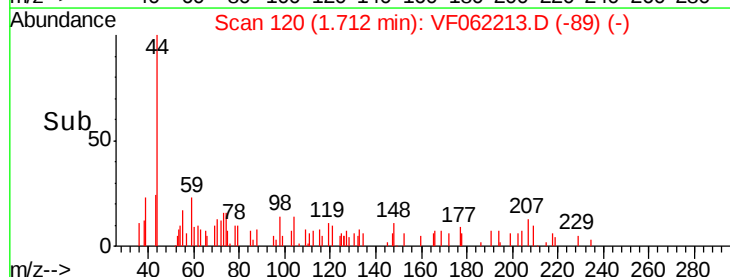
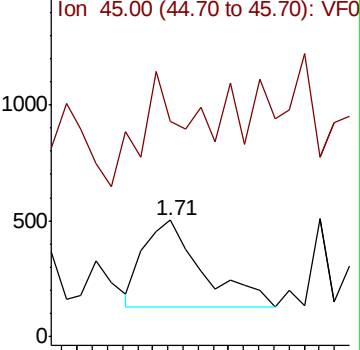
74 100

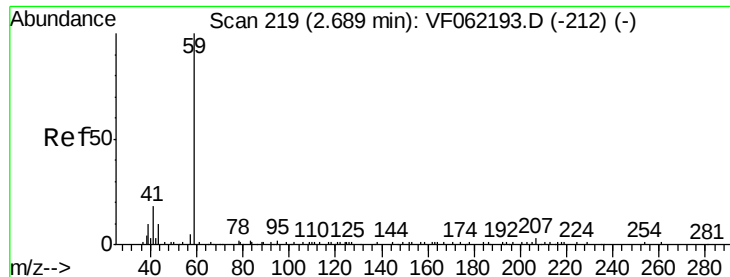
45 79.9 70.0 210.2



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



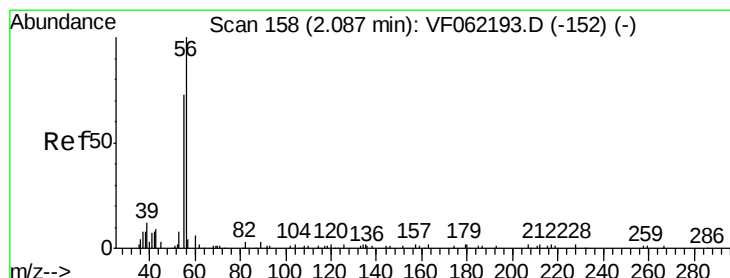
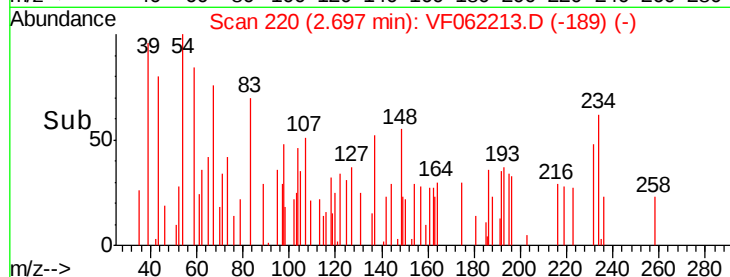
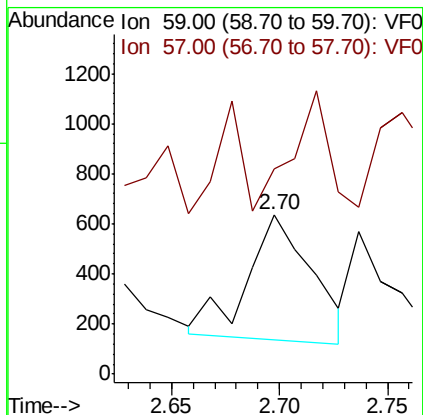
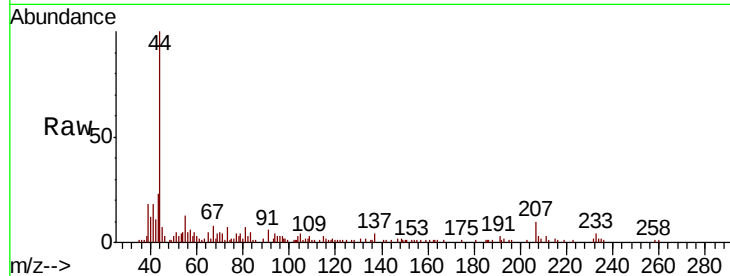


#11

Tert butyl alcohol
Concen: 4.113 ug/l
RT: 2.70 min Scan# 220
Delta R.T. 0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Instrument :
MSVOA_F
ClientSampled :

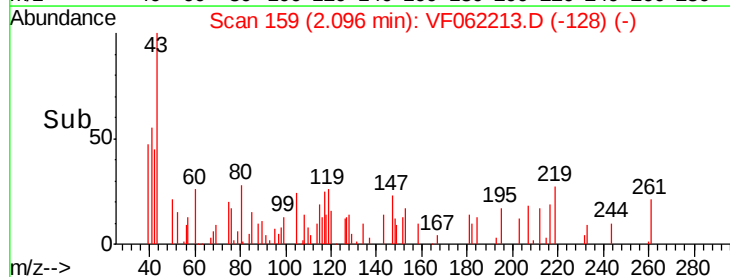
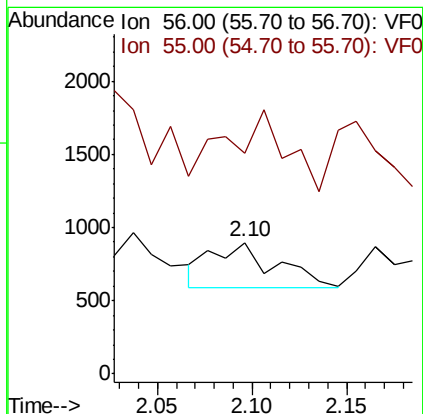
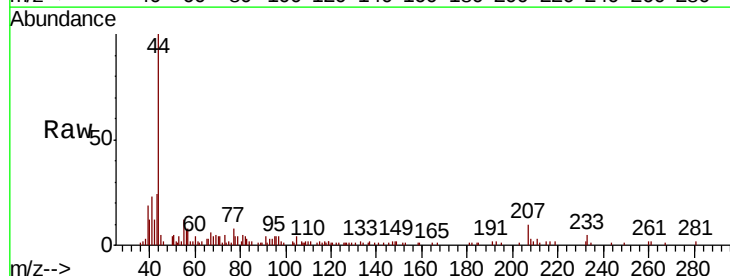
Tot Ion: 59 Resp: 1046
Ion Ratio Lower Upper
59 100
57 33.2 9.3 13.9#

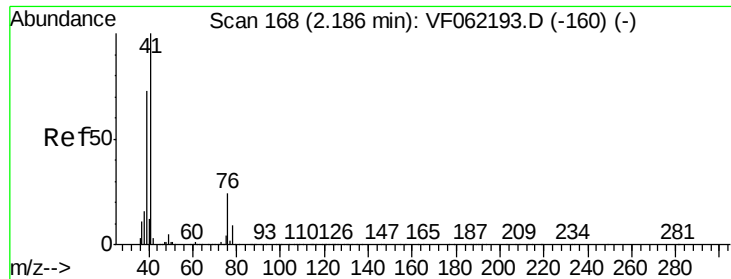


#13

Acrolein
Concen: Below Cal
RT: 2.10 min Scan# 159
Delta R.T. 0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion: 56 Resp: 716
Ion Ratio Lower Upper
56 100
55 57.5 57.4 86.0

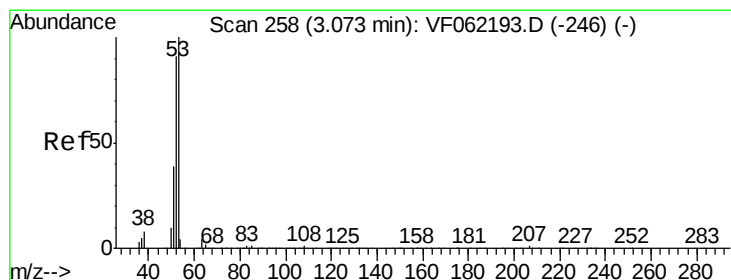
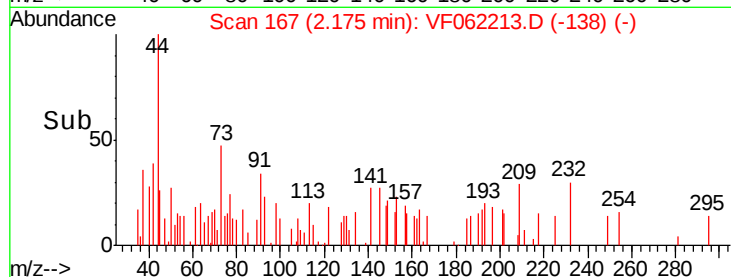
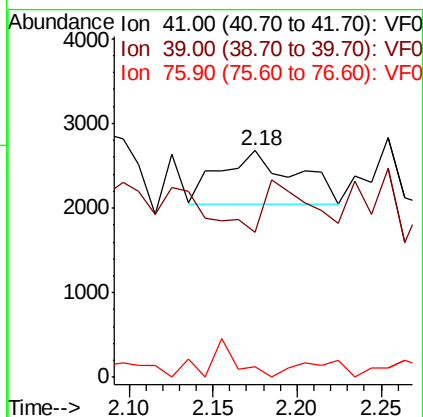
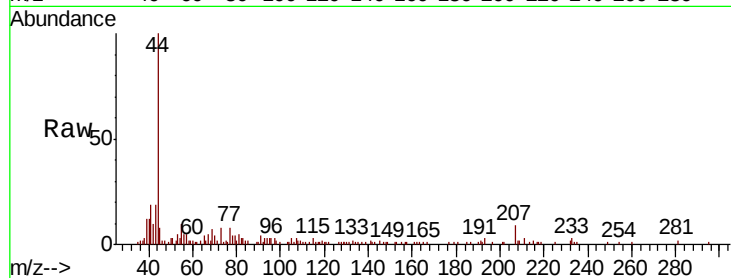




#14
Allvl chloride
Concen: 0.386 ug/l
RT: 2.18 min Scan# 167
Delta R.T. -0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

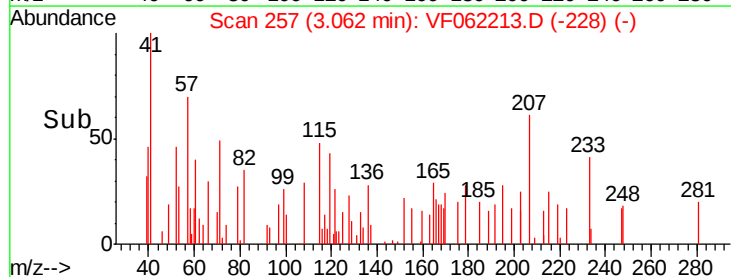
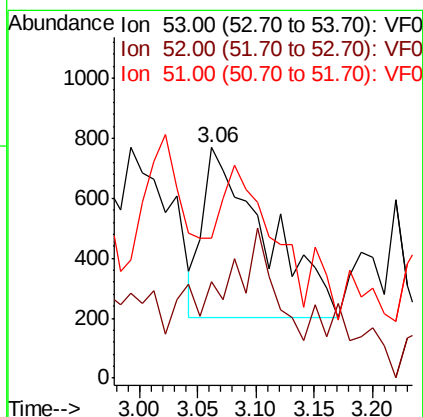
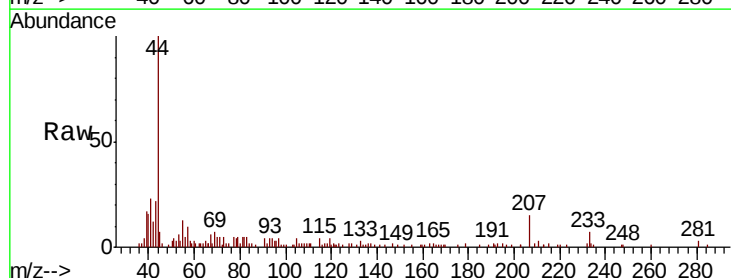
Instrument :
MSVOA_F
ClientSampleId :

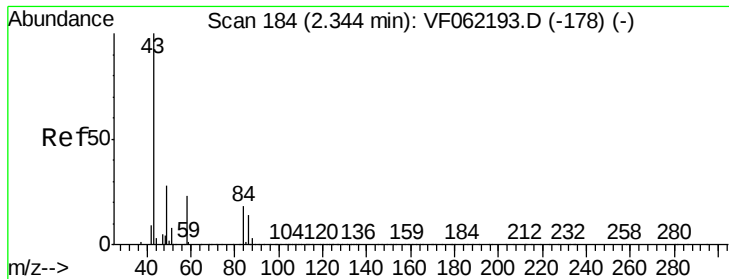
Tot Ion	Ratio	Lower	Upper
41	100		
39	57.7	60.0	90.0#
76	0.0	20.6	30.8#



#15
Acrylonitrile
Concen: 2.727 ug/l
RT: 3.06 min Scan# 257
Delta R.T. -0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion	Ratio	Lower	Upper
53	100		
52	0.0	69.5	104.3#
51	76.7	31.8	47.8#





#16

Acetone

Concen: 7.858 ug/l

RT: 2.34 min Scan# 184

Delta R.T. -0.00 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

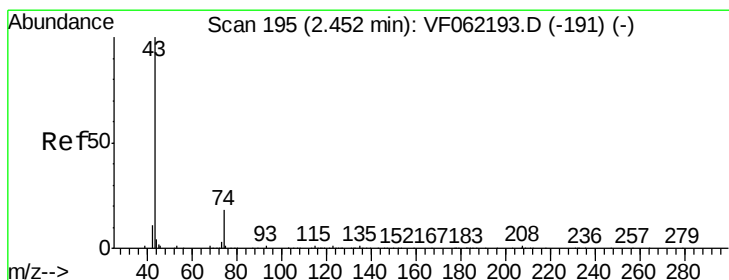
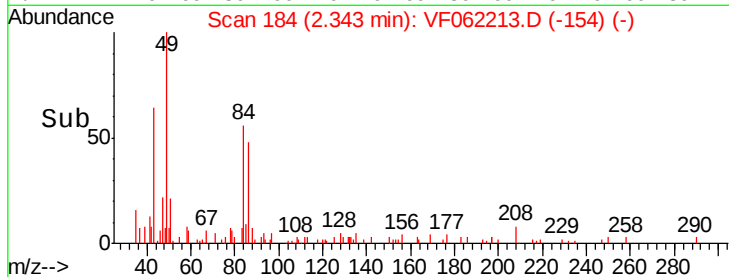
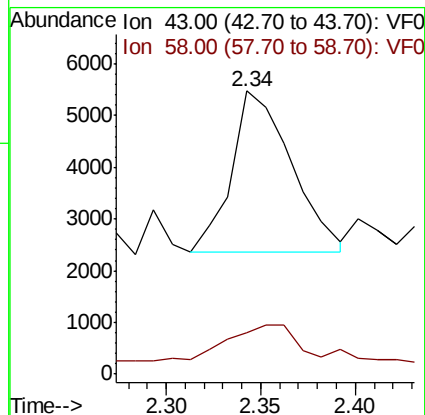
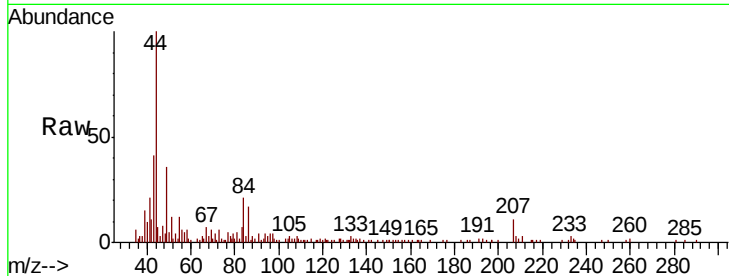
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 6872

Ion Ratio Lower Upper

43 100

58 17.0 18.8 28.2#



#18

Methyl Acetate

Concen: Below Cal

RT: 2.49 min Scan# 199

Delta R.T. 0.04 min

Lab File: VF062213.D

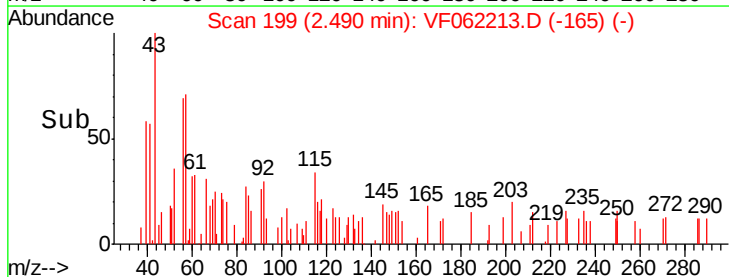
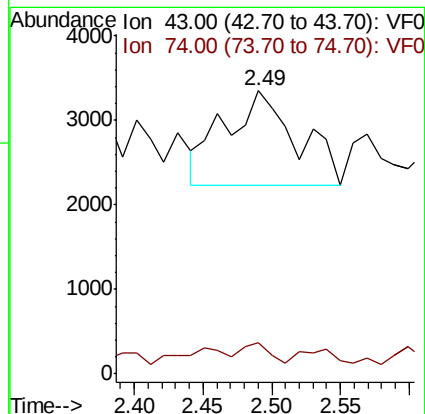
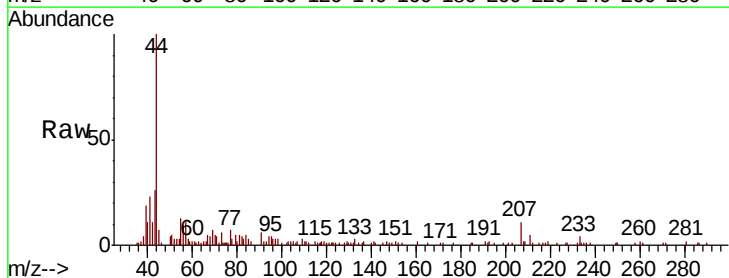
Acq: 18 Apr 2019 19:06

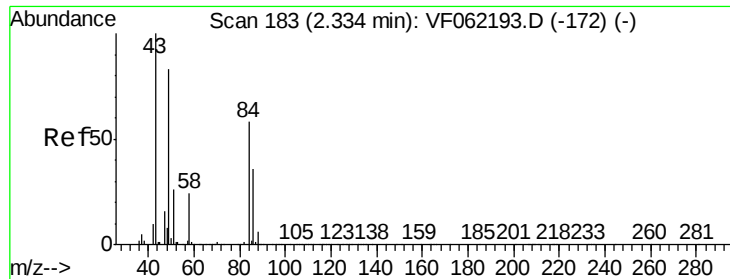
Tgt Ion: 43 Resp: 4090

Ion Ratio Lower Upper

43 100

74 10.9 14.5 21.7#

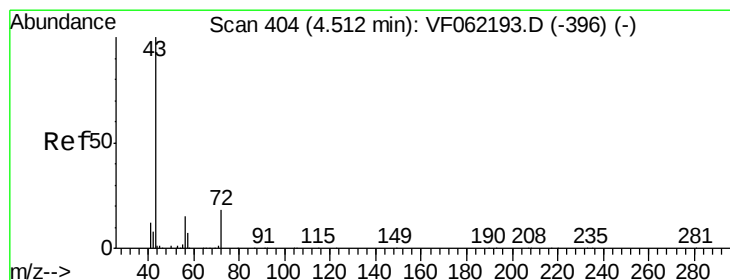
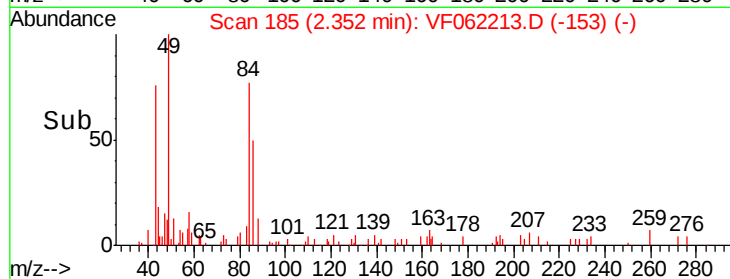
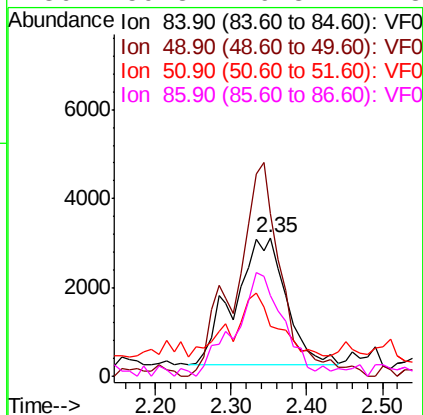
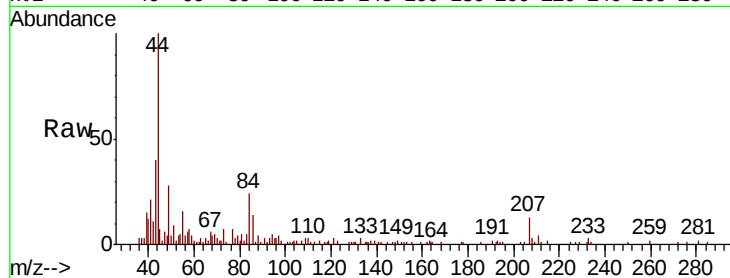




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.35 min Scan# 185
Delta R.T. 0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

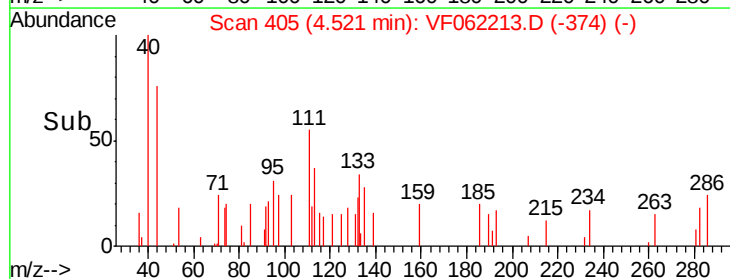
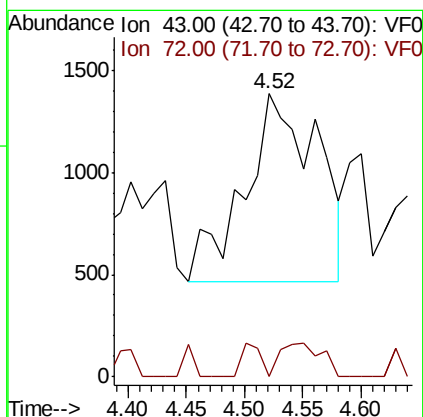
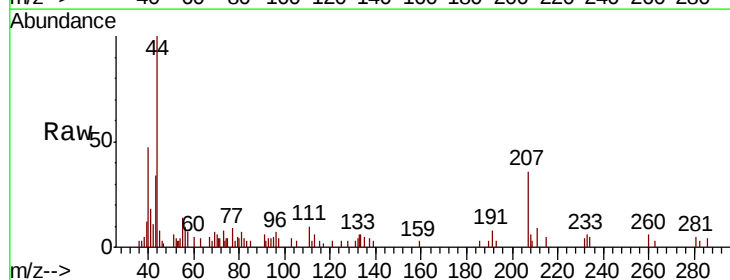
Instrument :
MSVOA_F
ClientSampled :

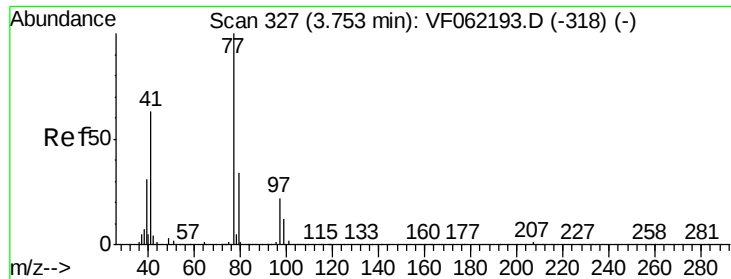
Tot Ion: 84 Resp: 13706
Ion Ratio Lower Upper
84 100
49 127.7 114.0 171.0
51 23.8 37.0 55.4#
86 59.3 49.8 74.8



#25
2-Butanone
Concen: 2.297 ug/l
RT: 4.52 min Scan# 405
Delta R.T. 0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion: 43 Resp: 4017
Ion Ratio Lower Upper
43 100
72 0.0 16.1 24.1#

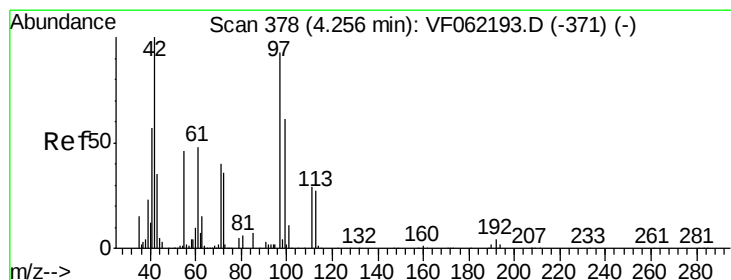
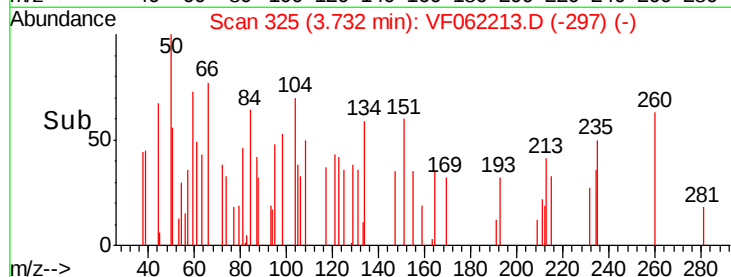
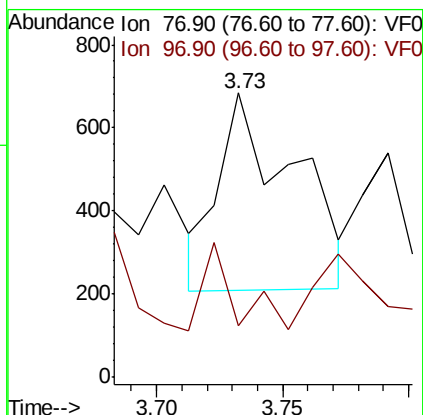
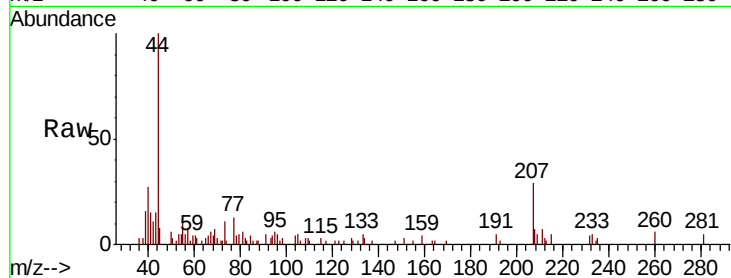




#26
2,2-Dichloropropane
Concen: 0.274 ug/l
RT: 3.73 min Scan# 325
Delta R.T. -0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

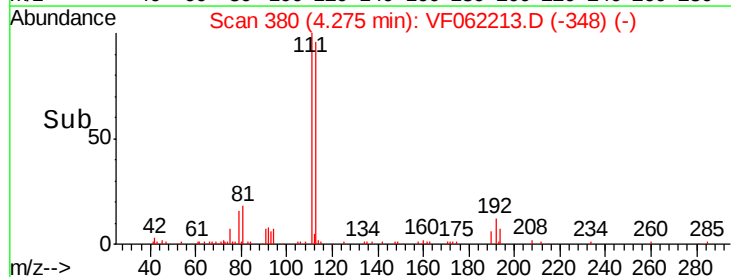
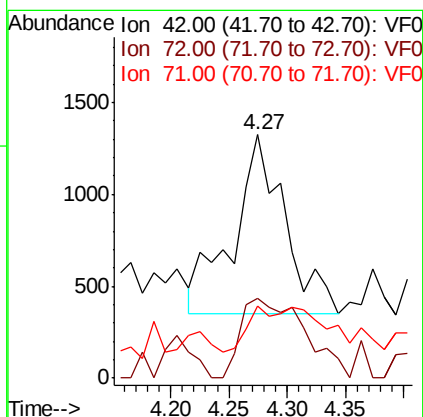
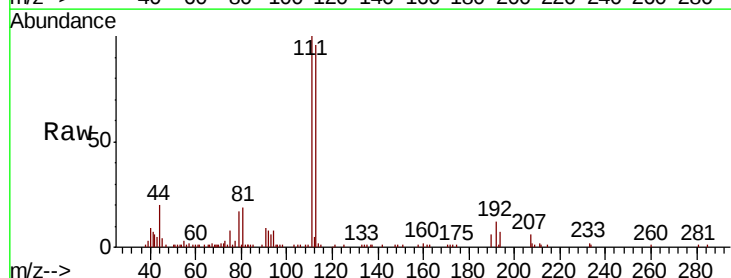
Instrument :
MSVOA_F
ClientSampled :

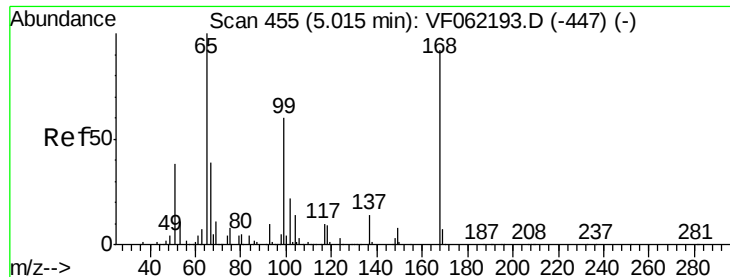
Tot Ion: 77 Resp: 986
Ion Ratio Lower Upper
77 100
97 27.7 11.1 33.3



#29
Tetrahydrofuran
Concen: 3.799 ug/l
RT: 4.27 min Scan# 380
Delta R.T. 0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion: 42 Resp: 3007
Ion Ratio Lower Upper
42 100
72 54.7 28.6 43.0#
71 40.2 29.2 43.8





#33

1,2-Dichloroethane-d4

Concen: 50.311 ug/l

RT: 5.03 min Scan# 457

Delta R.T. 0.02 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

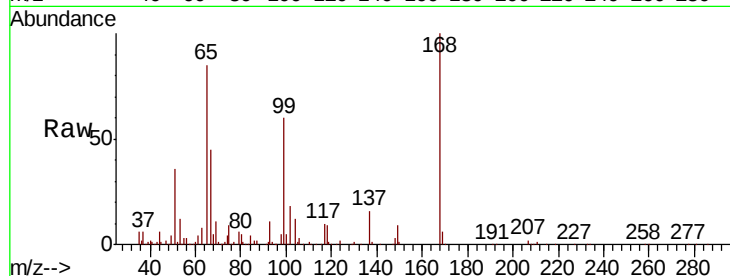
ClientSampleId :

Tot Ion: 65 Resp: 184067

Ion Ratio Lower Upper

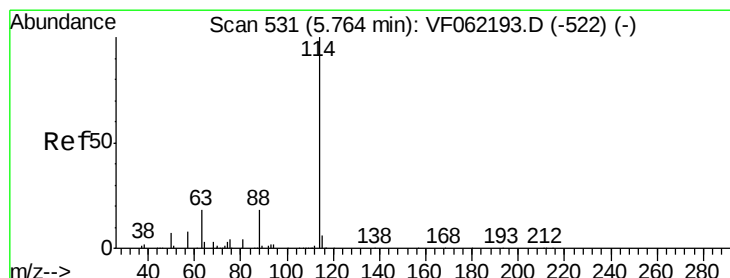
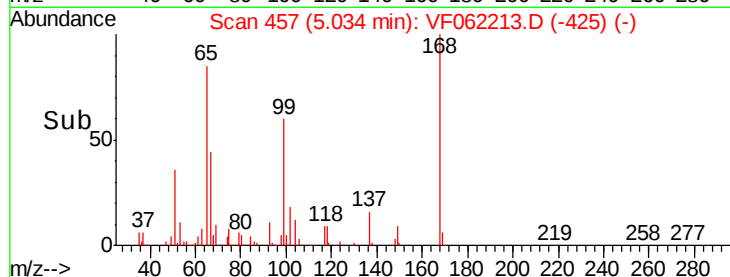
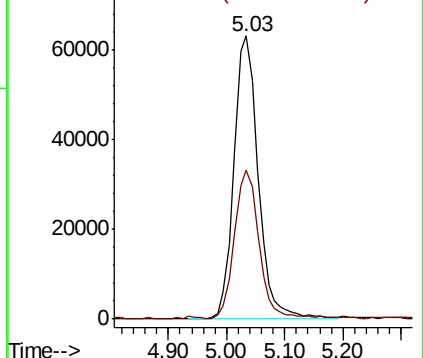
65 100

67 52.5 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VF0

Ion 66.90 (66.60 to 67.60): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.77 min Scan# 532

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

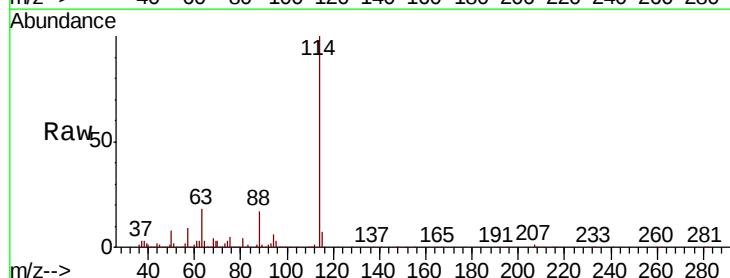
Tgt Ion: 114 Resp: 593137

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.6

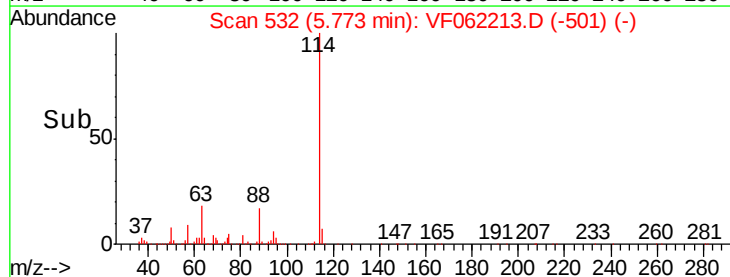
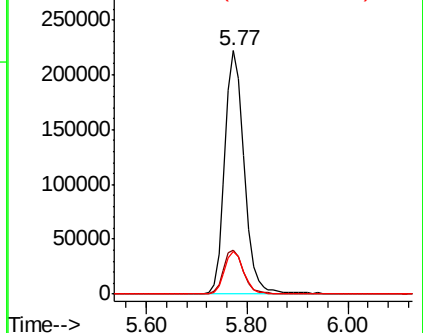
88 17.4 0.0 35.8

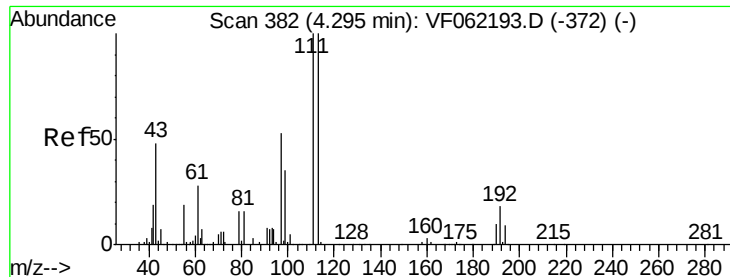


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0





#35

Dibromofluoromethane

Concen: 47.087 ug/l

RT: 4.30 min Scan# 383

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :
MSVOA_F
ClientSampleId :

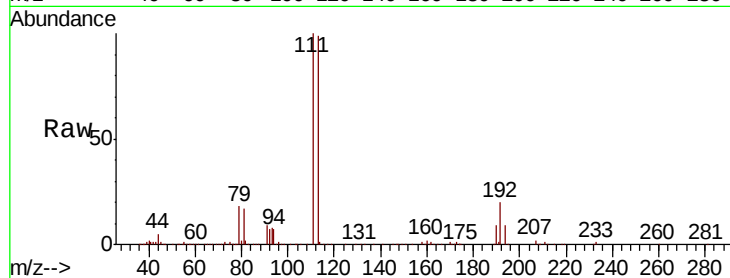
Tot Ion:113 Resp: 244304

Ion Ratio Lower Upper

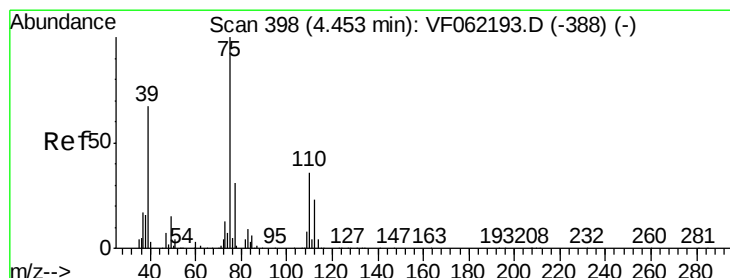
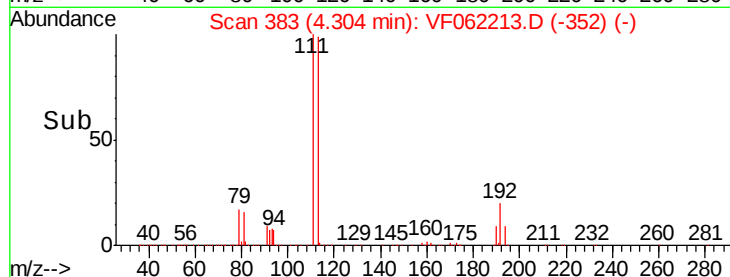
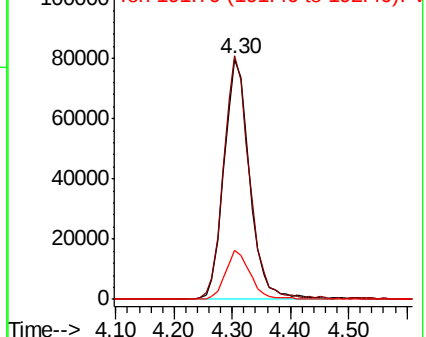
113 100

111 100.7 81.1 121.7

192 19.9 14.7 22.1



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 7.282 ug/l

RT: 4.22 min Scan# 374

Delta R.T. -0.24 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

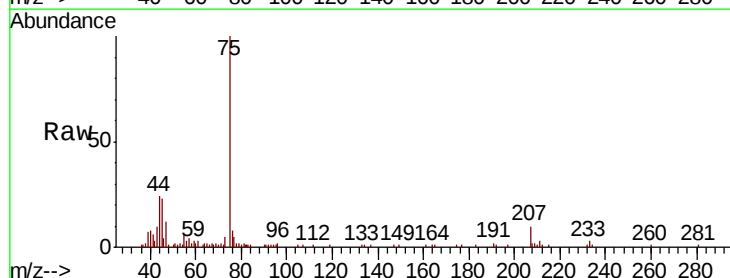
Tgt Ion: 75 Resp: 51783

Ion Ratio Lower Upper

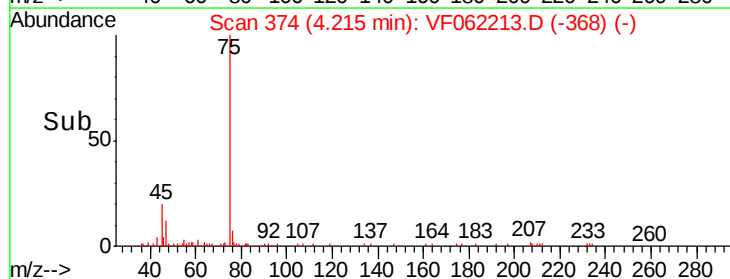
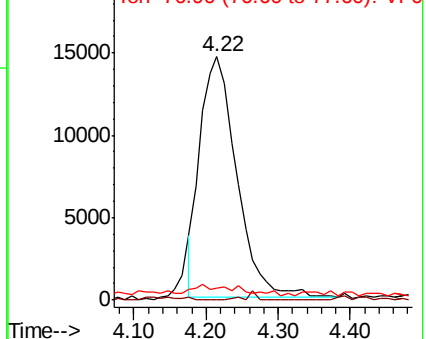
75 100

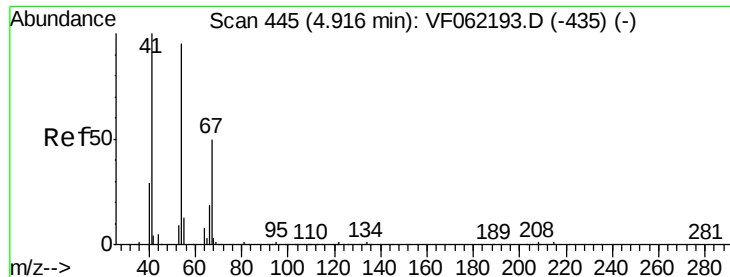
110 0.0 18.4 55.2#

77 0.4 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VF0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VF0

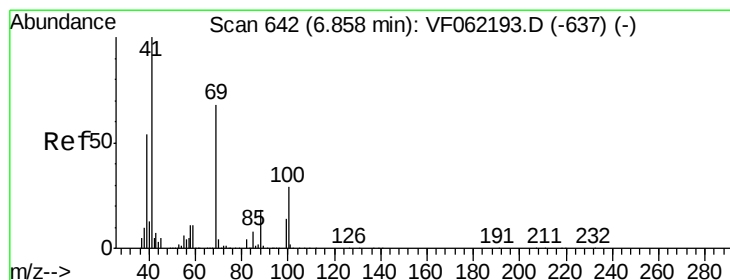
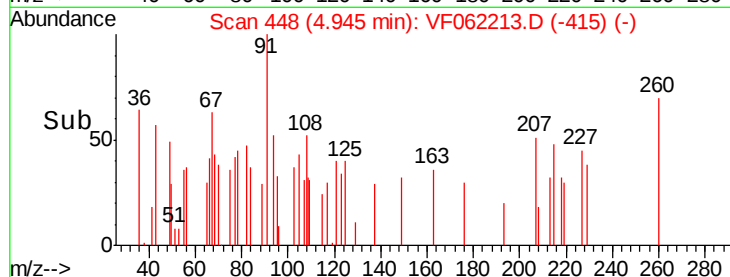
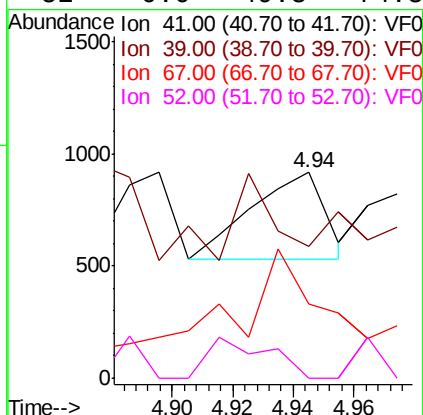
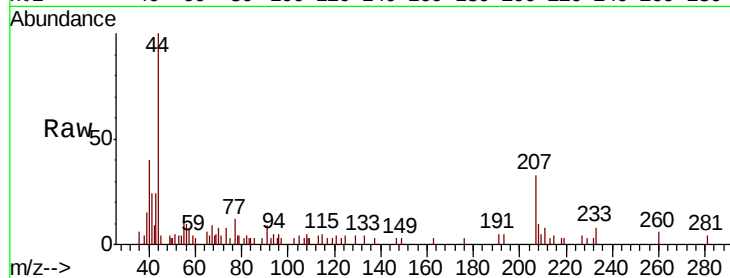




#41
Methacrylonitrile
Concen: 0.334 ug/l
RT: 4.94 min Scan# 448
Delta R.T. 0.03 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

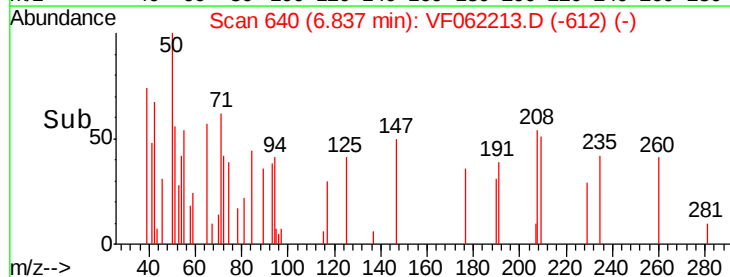
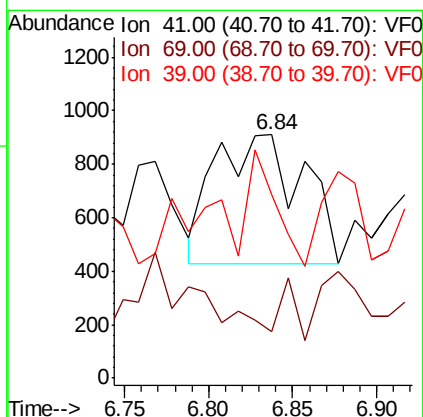
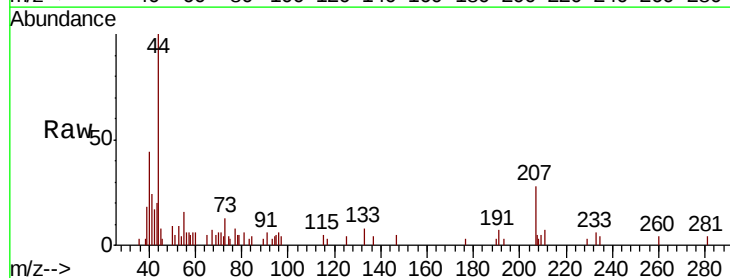
Instrument :
MSVOA_F
ClientSampled :

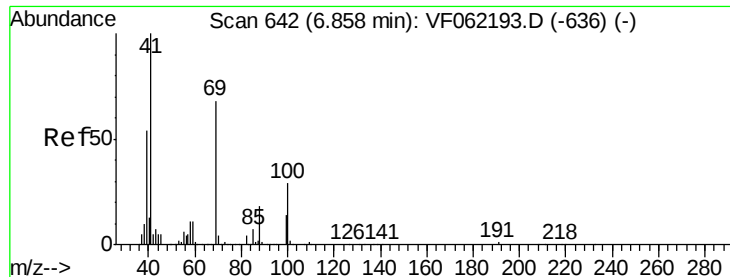
Tot Ion: 41 Resp: 646
Ion Ratio Lower Upper
41 100
39 0.0 44.7 67.1#
67 0.0 39.1 58.7#
52 0.0 49.8 74.8#



#48
Methyl methacrylate
Concen: 0.753 ug/l
RT: 6.84 min Scan# 640
Delta R.T. -0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion: 41 Resp: 1747
Ion Ratio Lower Upper
41 100
69 7.8 54.9 82.3#
39 60.3 43.6 65.4

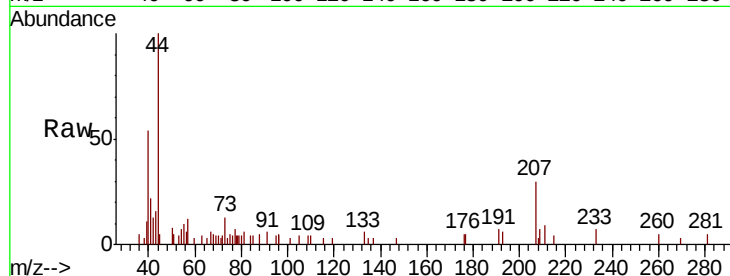




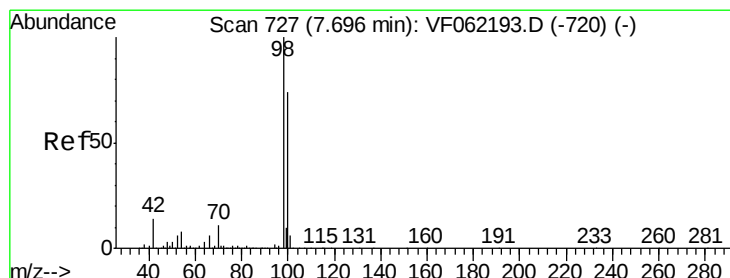
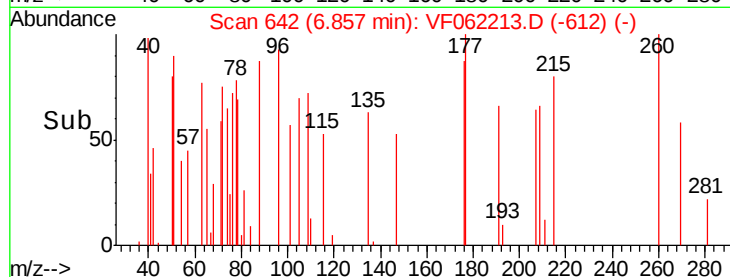
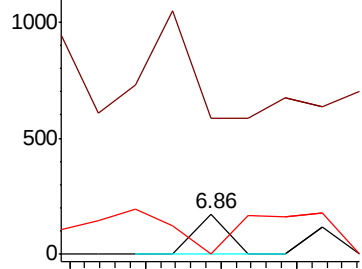
#49
1,4-Dioxane
Concen: 3.834 ug/l
RT: 6.86 min Scan# 642
Delta R.T. -0.00 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 88 Resp: 102
Ion Ratio Lower Upper
88 100
43 355.9 36.9 55.3#
58 414.7 56.8 85.2#

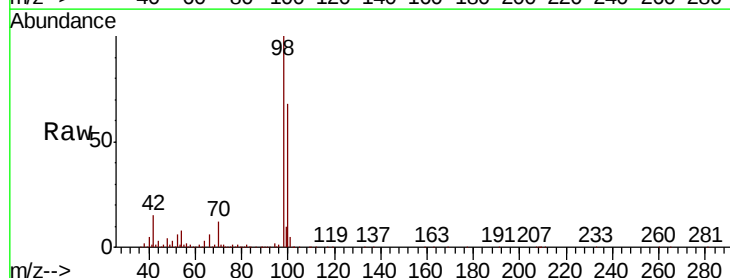


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

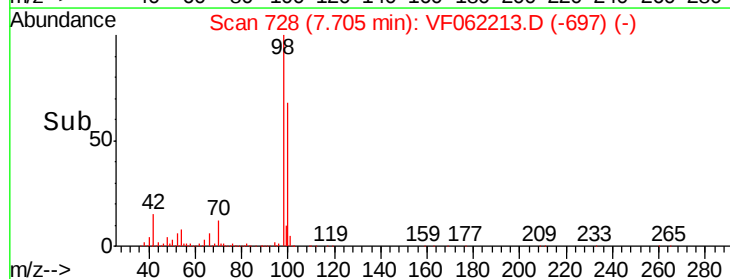
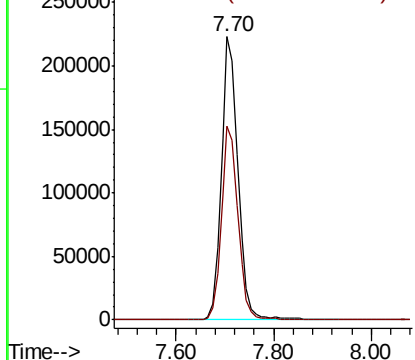


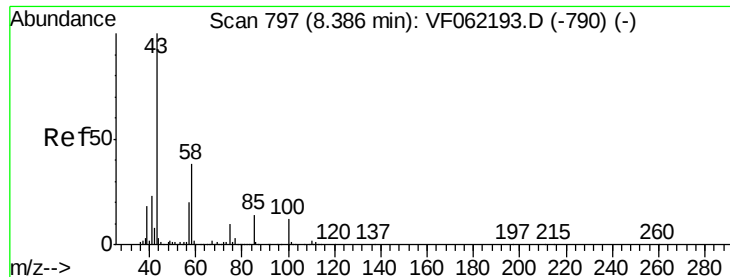
#50
Toluene-d8
Concen: 40.262 ug/l
RT: 7.70 min Scan# 728
Delta R.T. 0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion: 98 Resp: 528793
Ion Ratio Lower Upper
98 100
100 68.3 56.2 84.2



Abundance Ion 98.00 (97.70 to 98.70): VF0
Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 2.414 ug/l

RT: 8.40 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

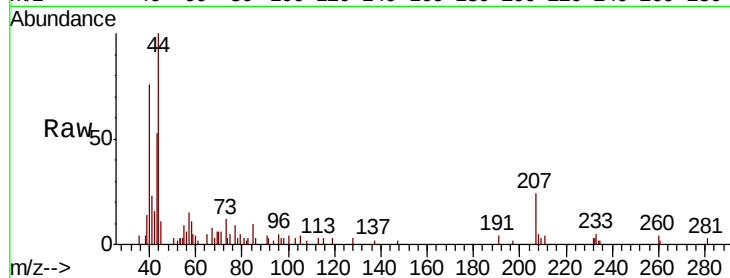
ClientSampleId :

Tot Ion: 43 Resp: 6336

Ion Ratio Lower Upper

43 100

58 30.7 29.3 43.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2500

2000

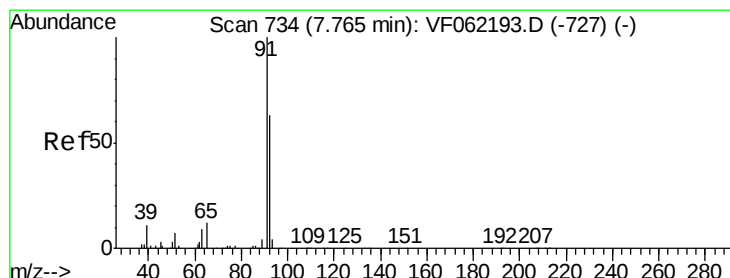
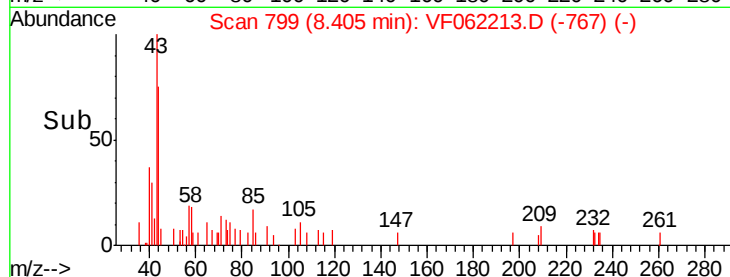
1500

1000

500

0

Time-->



#52

Toluene

Concen: 0.614 ug/l

RT: 7.77 min Scan# 735

Delta R.T. 0.01 min

Lab File: VF062213.D

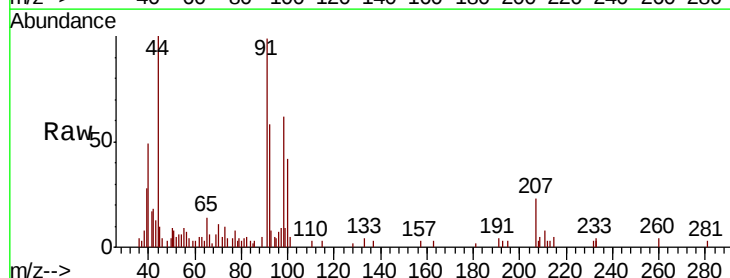
Acq: 18 Apr 2019 19:06

Tgt Ion: 92 Resp: 6036

Ion Ratio Lower Upper

92 100

91 196.8 130.1 195.1#



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

6000

5000

4000

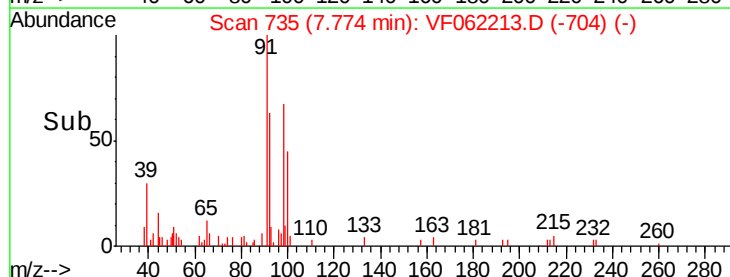
3000

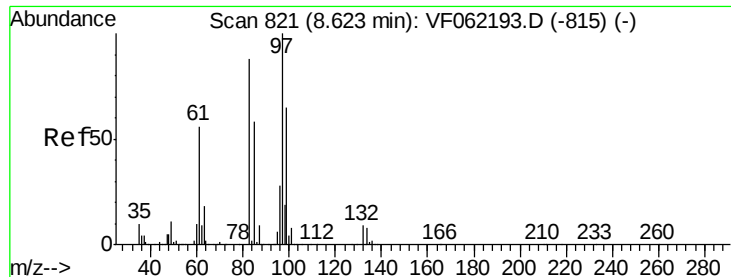
2000

1000

0

Time-->





#55

1,1,2-Trichloroethane

Concen: 0.233 ug/l

RT: 8.62 min Scan# 821

Delta R.T. -0.00 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 97 Resp: 642

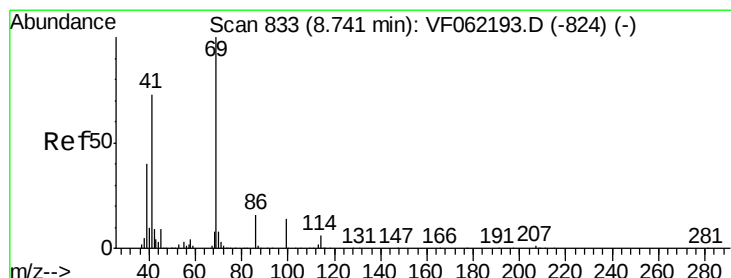
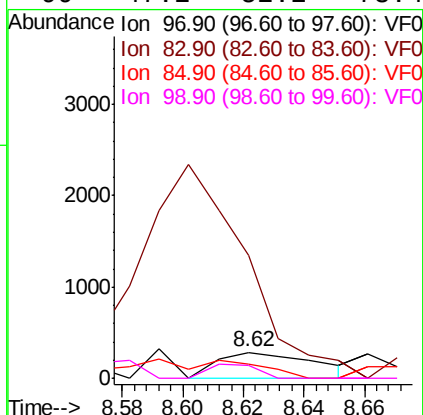
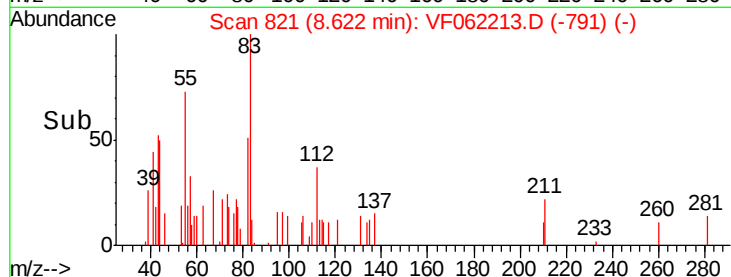
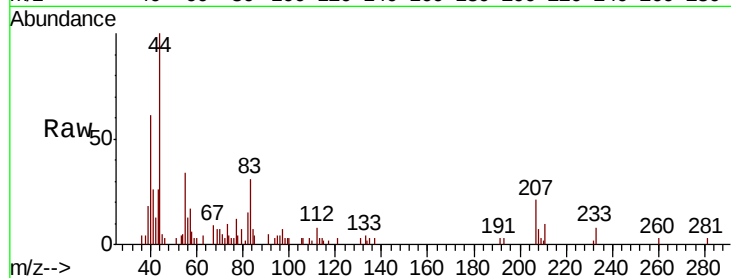
Ion Ratio Lower Upper

97 100

83 396.9 70.2 105.2#

85 52.8 46.2 69.4

99 47.2 52.2 78.4#



#56

Ethyl methacrylate

Concen: 2.194 ug/l

RT: 8.78 min Scan# 837

Delta R.T. 0.04 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

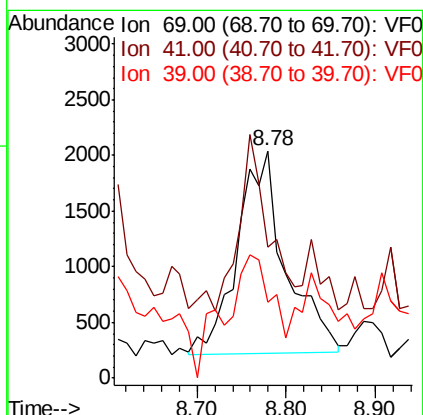
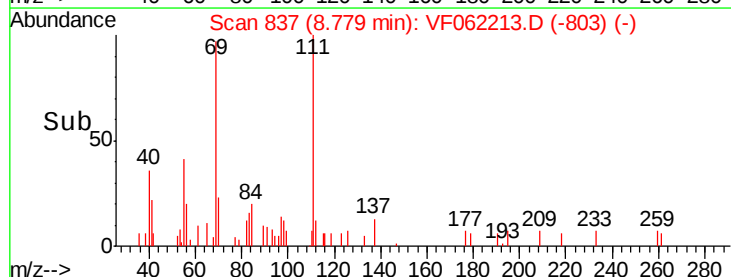
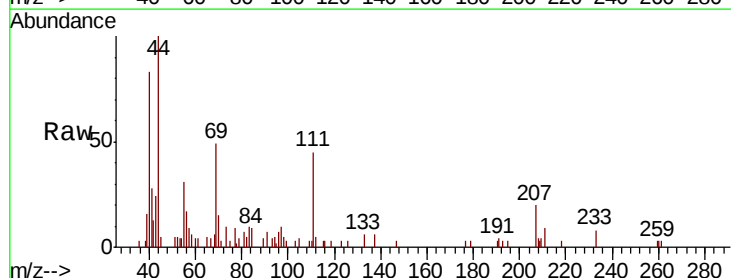
Tgt Ion: 69 Resp: 6871

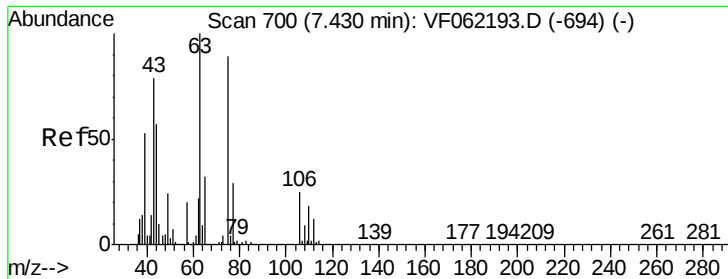
Ion Ratio Lower Upper

69 100

41 55.6 61.5 92.3#

39 61.1 33.3 49.9#

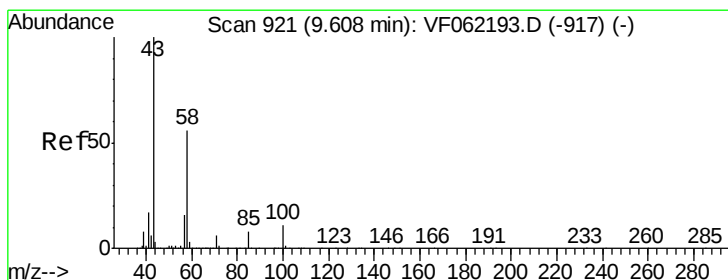
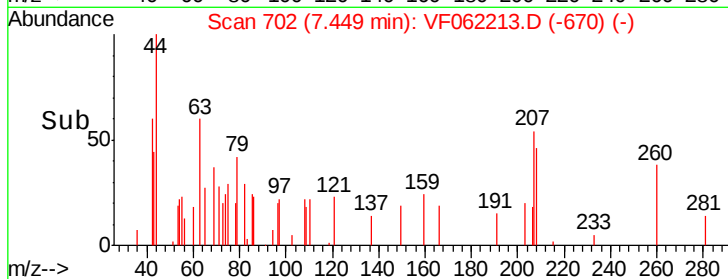
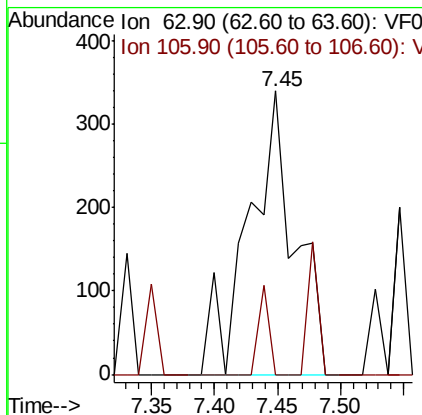
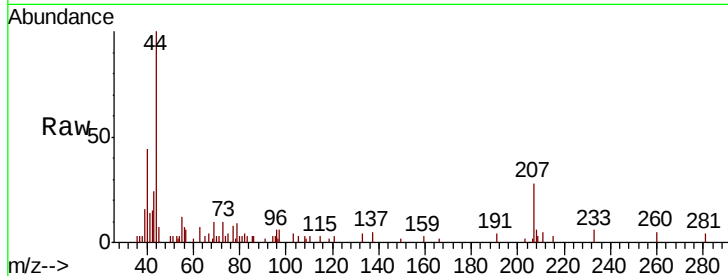




#58
2-Chloroethyl Vinyl ether
Concen: 0.956 ug/l
RT: 7.45 min Scan# 702
Delta R.T. 0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

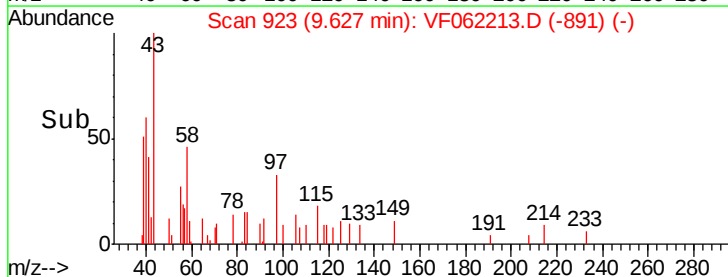
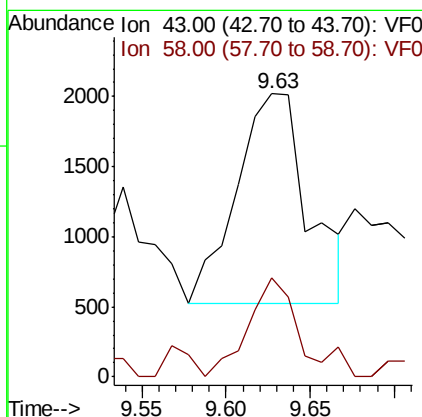
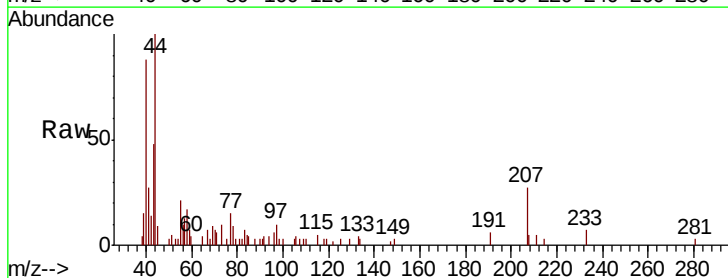
Instrument :
MSVOA_F
ClientSampled :

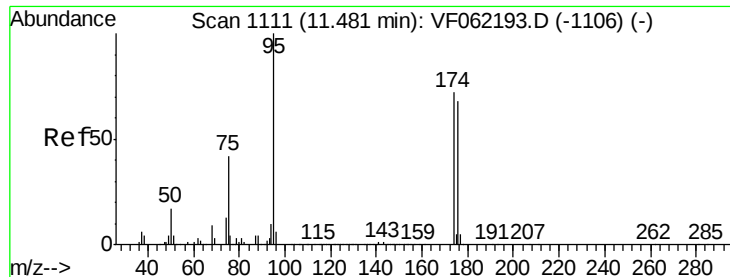
Tot Ion: 63 Resp: 869
Ion Ratio Lower Upper
63 100
106 7.2 21.4 32.0#



#59
2-Hexanone
Concen: 2.836 ug/l
RT: 9.63 min Scan# 923
Delta R.T. 0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion: 43 Resp: 4420
Ion Ratio Lower Upper
43 100
58 33.7 24.6 74.0





#62

4-Bromofluorobenzene

Concen: 42.912 ug/l

RT: 11.49 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

ClientSampleId :

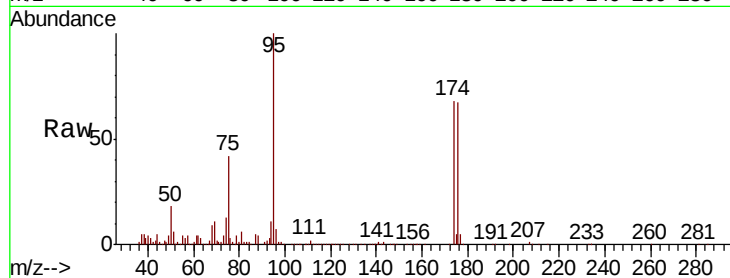
Tot Ion: 95 Resp: 216810

Ion Ratio Lower Upper

95 100

174 83.8 0.0 159.4

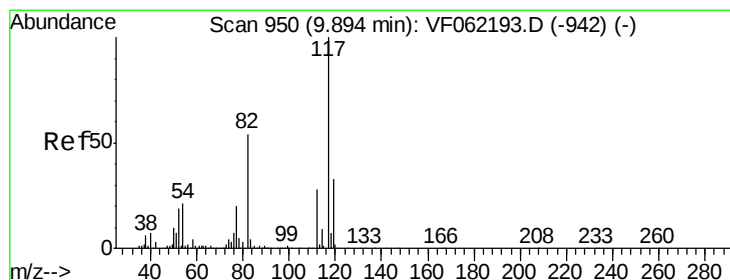
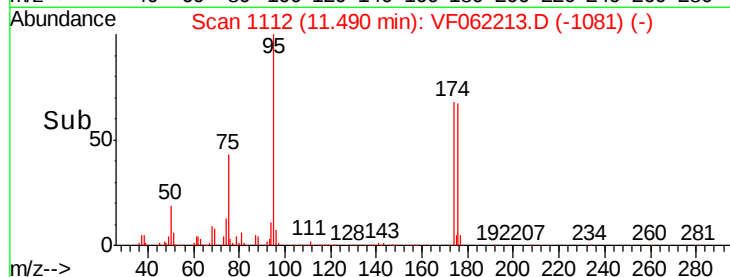
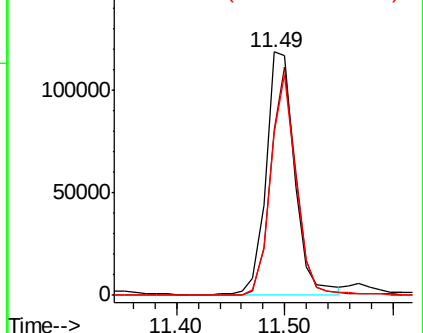
176 81.6 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

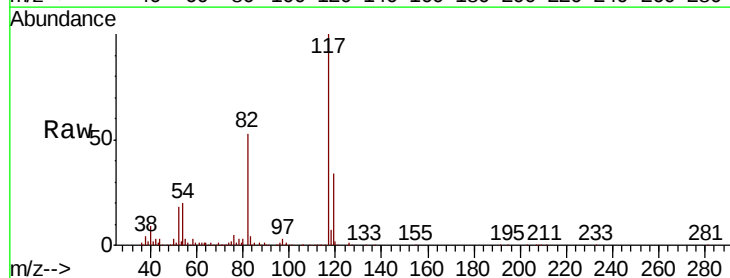
Tgt Ion: 117 Resp: 405313

Ion Ratio Lower Upper

117 100

82 52.9 43.2 64.8

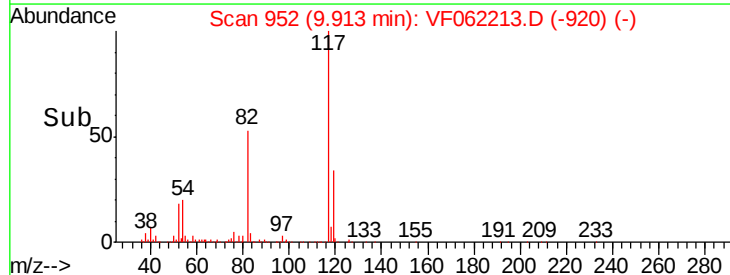
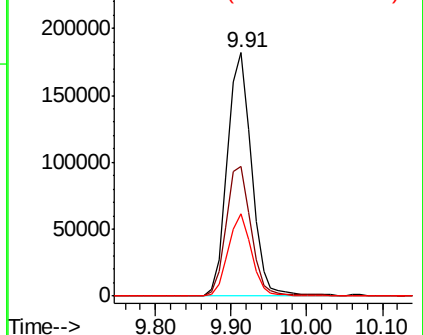
119 33.7 26.2 39.4

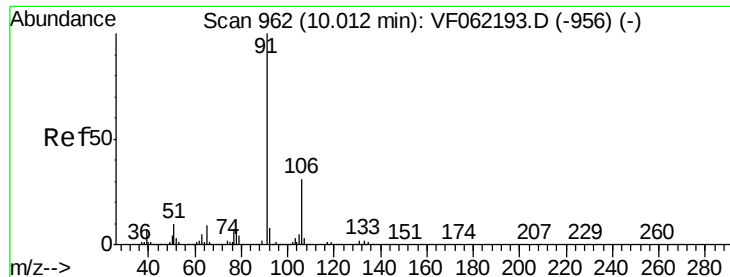


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 1.684 ug/l

RT: 10.03 min Scan# 964

Delta R.T. 0.02 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

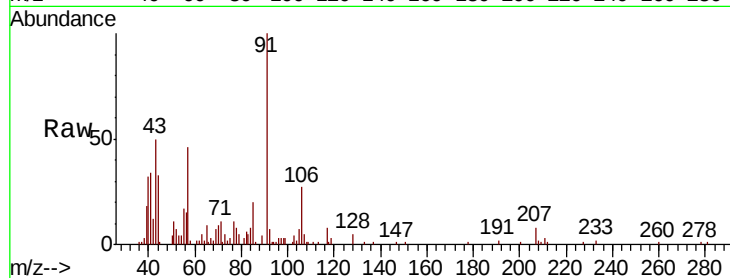
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 91 Resp: 26462

Ion Ratio Lower Upper

91 100

106 27.4 24.9 37.3



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 106.00 (105.70 to 106.70): V

10.03

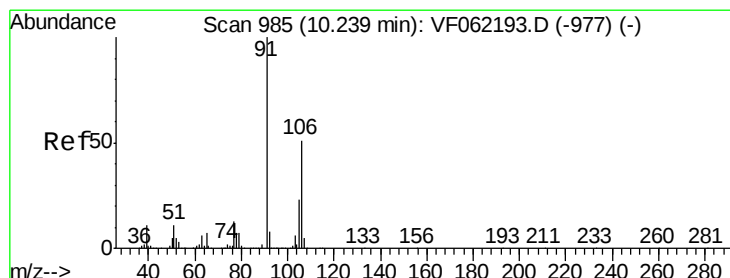
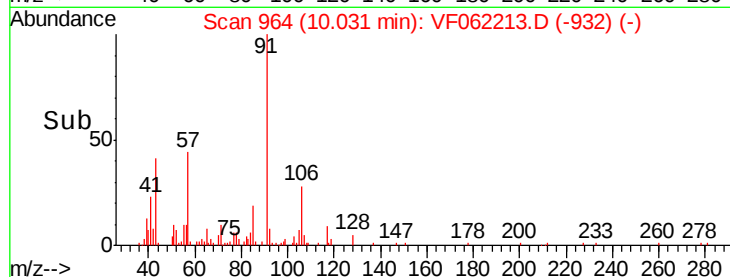
10000

5000

0

Time-->

9.90 10.00 10.10



#68

m/p-Xylenes

Concen: 2.977 ug/l

RT: 10.26 min Scan# 987

Delta R.T. 0.02 min

Lab File: VF062213.D

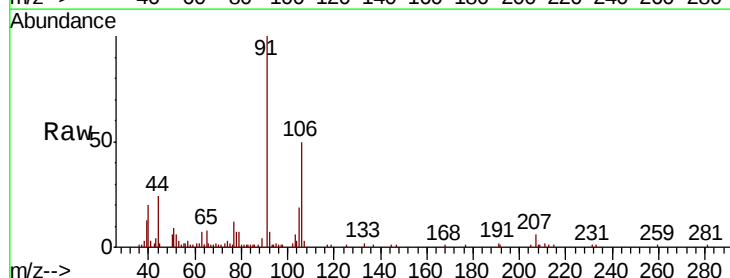
Acq: 18 Apr 2019 19:06

Tgt Ion: 106 Resp: 17225

Ion Ratio Lower Upper

106 100

91 204.2 159.1 238.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0

20000

15000

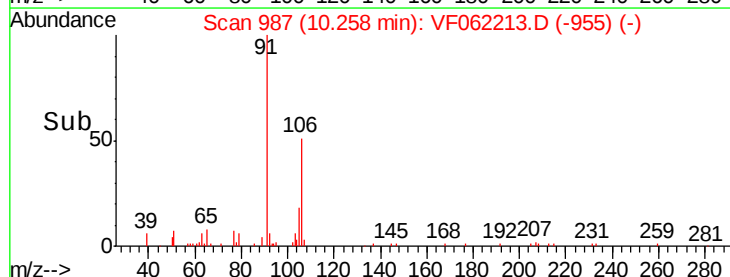
10000

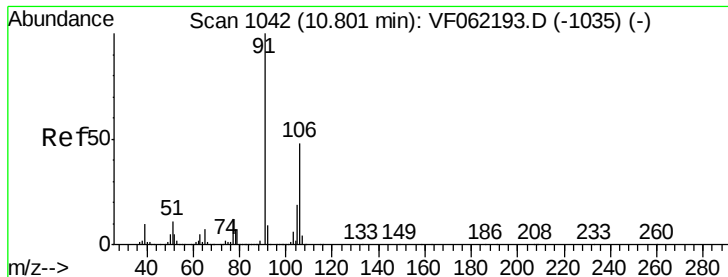
5000

0

Time-->

10.20 10.30

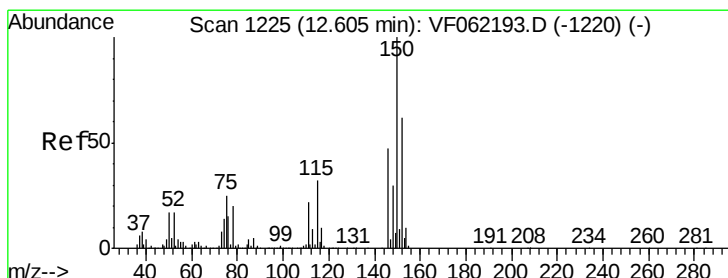
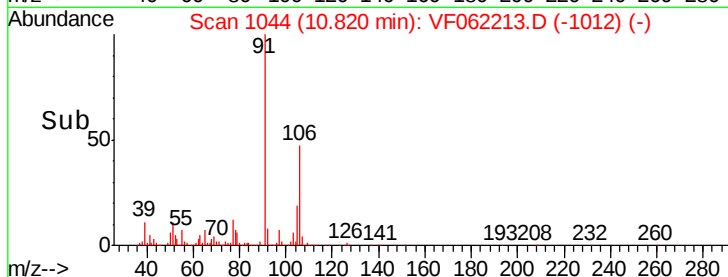
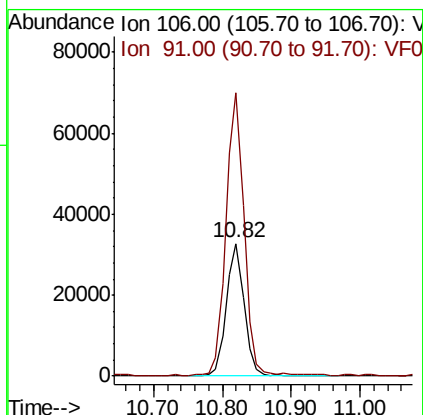
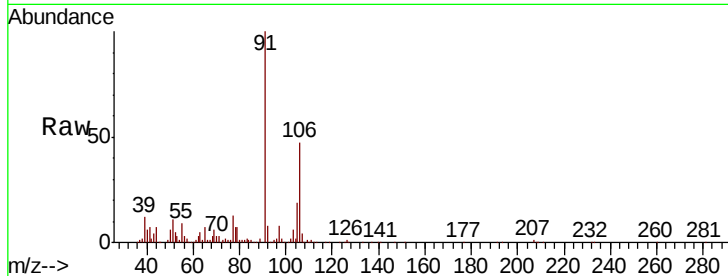




#69
o-Xylene
Concen: 9.179 ug/l
RT: 10.82 min Scan# 1044
Delta R.T. 0.02 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

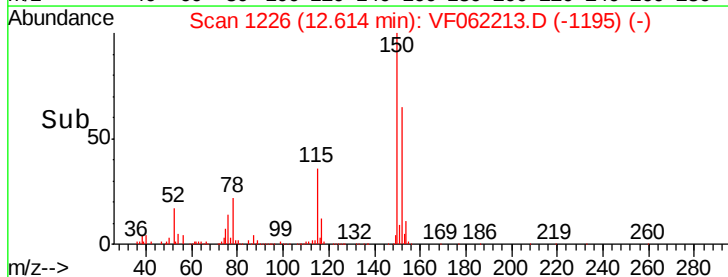
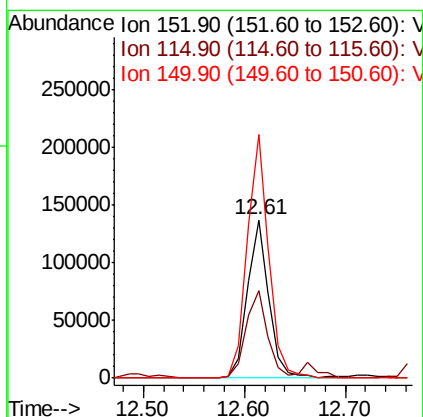
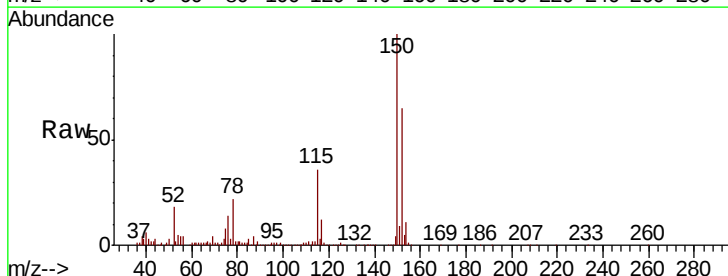
Instrument :
MSVOA_F
ClientSampleId :

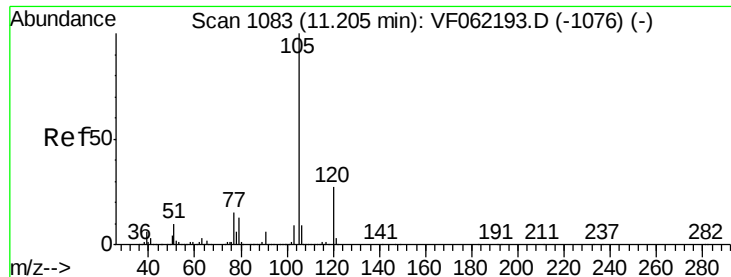
Tot Ion:106 Resp: 58956
Ion Ratio Lower Upper
106 100
91 215.2 107.5 322.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.61 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062213.D
Acq: 18 Apr 2019 19:06

Tgt Ion:152 Resp: 204244
Ion Ratio Lower Upper
152 100
115 55.6 27.8 83.3
150 155.1 0.0 341.8





#73

Isopropylbenzene

Concen: 1.152 ug/l

RT: 11.21 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

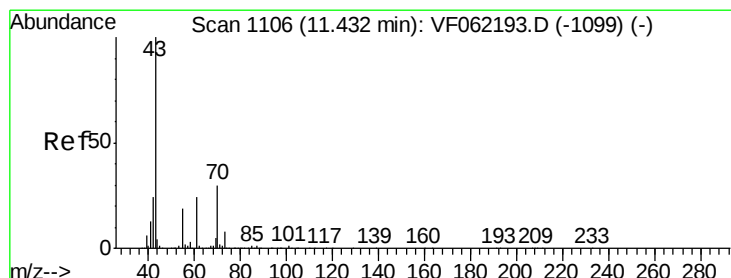
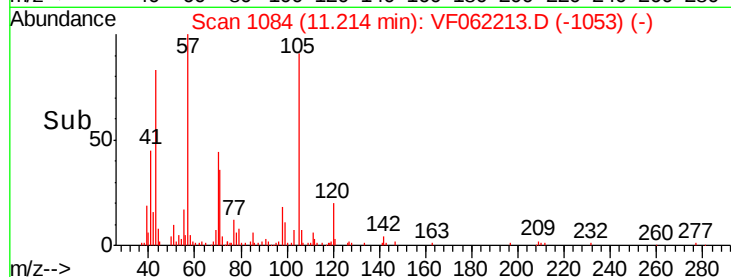
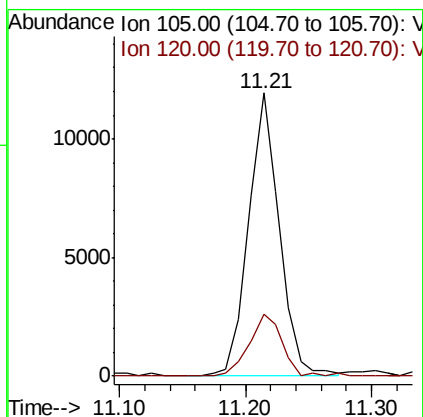
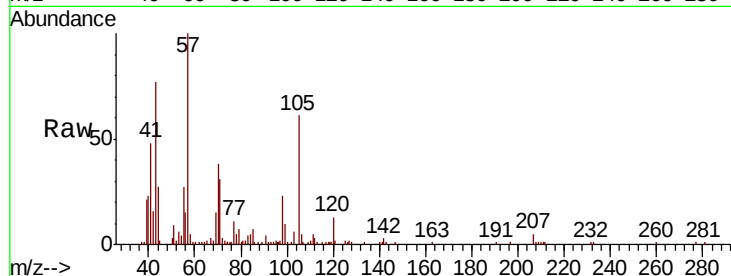
ClientSampleId :

Tot Ion:105 Resp: 20215

Ion Ratio Lower Upper

105 100

120 23.4 13.0 38.9



#74

N-ethyl acetate

Concen: Below Cal

RT: 11.47 min Scan# 1110

Delta R.T. 0.04 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Tgt Ion: 43 Resp: 7830

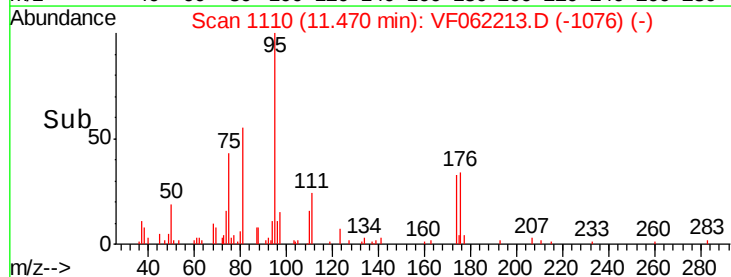
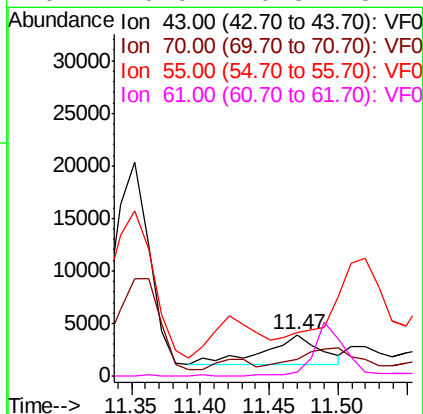
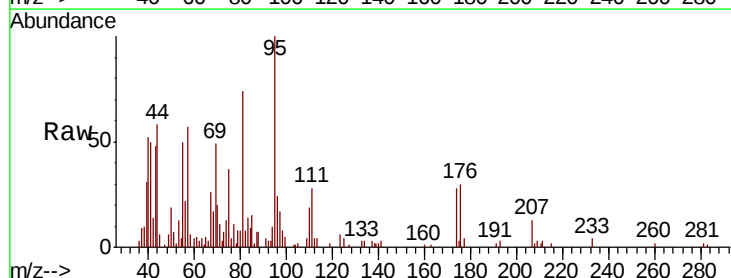
Ion Ratio Lower Upper

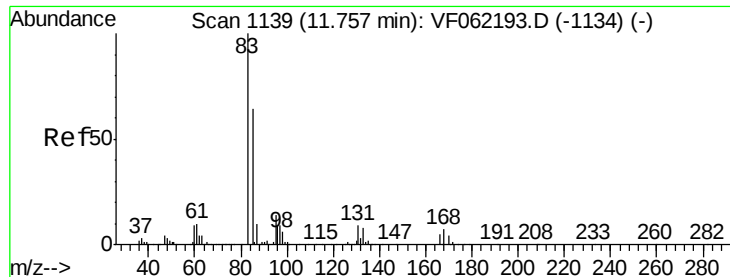
43 100

70 0.0 27.0 40.4#

55 0.0 15.7 23.5#

61 0.0 20.8 31.2#





#75

1,1,2,2-Tetrachloroethane

Concen: 2.591 ug/l

RT: 11.75 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

ClientSampled :

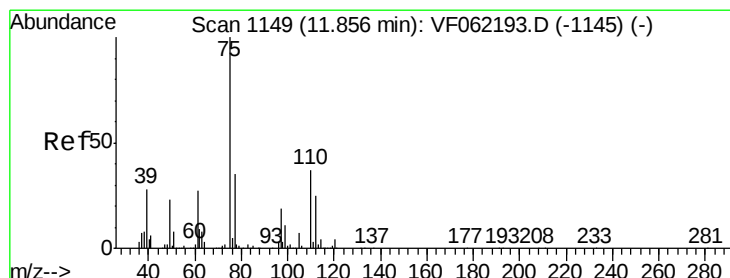
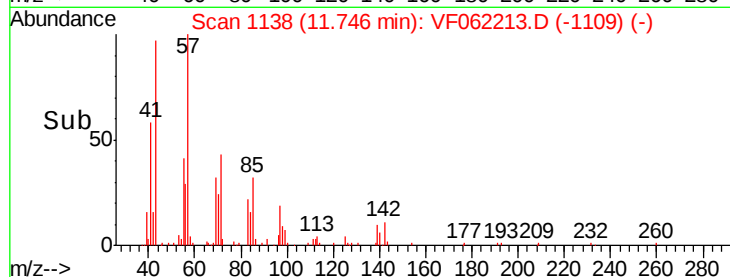
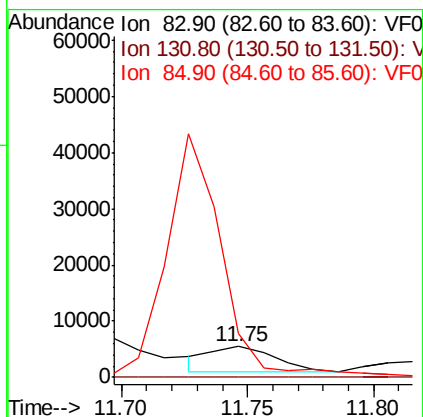
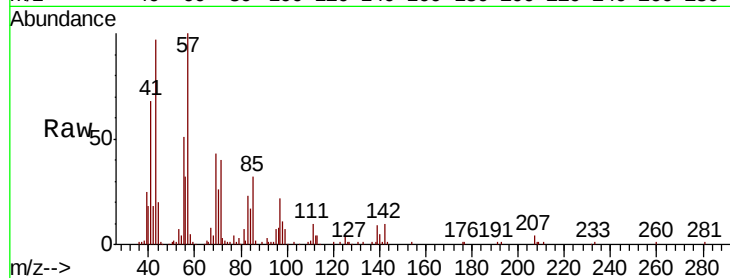
Tot Ion: 83 Resp: 7819

Ion Ratio Lower Upper

83 100

131 1.8 4.5 13.5#

85 823.6 34.7 104.1#



#76

1,2,3-Trichloropropane

Concen: 1.562 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. 0.04 min

Lab File: VF062213.D

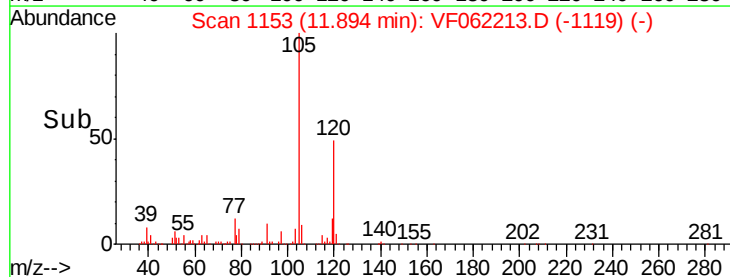
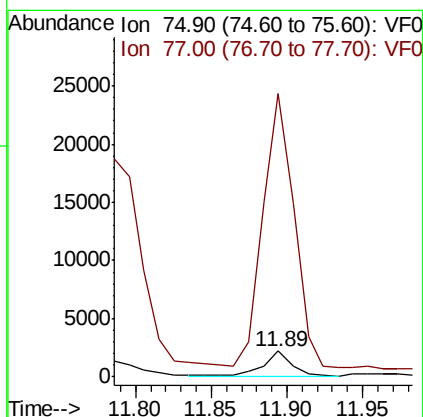
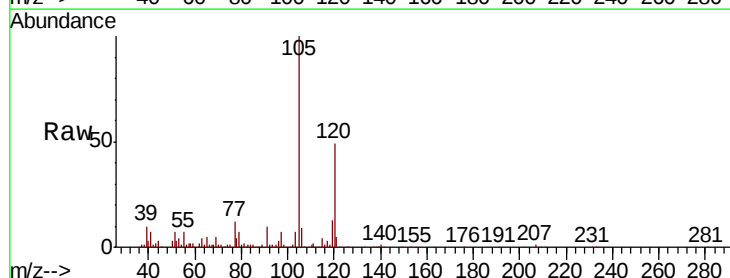
Acq: 18 Apr 2019 19:06

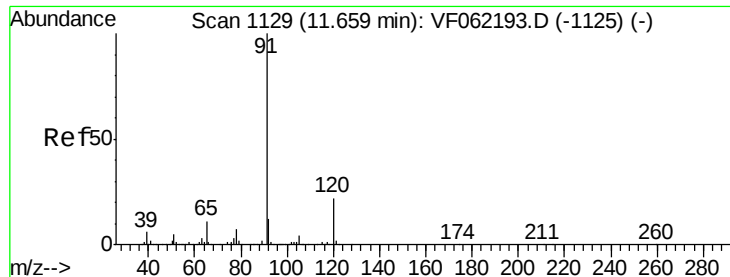
Tgt Ion: 75 Resp: 3242

Ion Ratio Lower Upper

75 100

77 1052.0 7.4 22.2#





#78

n-propylbenzene

Concen: 4.770 ug/l

RT: 11.67 min Scan# 1130

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

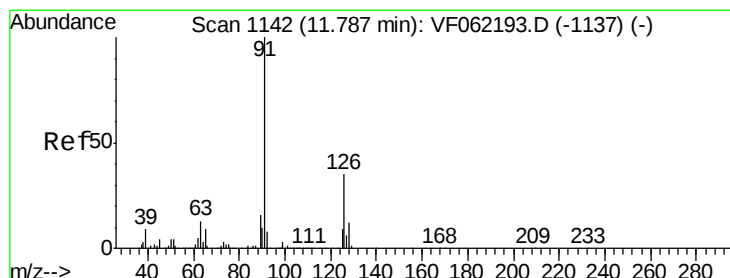
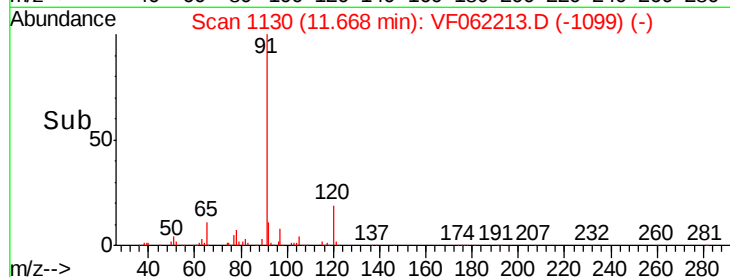
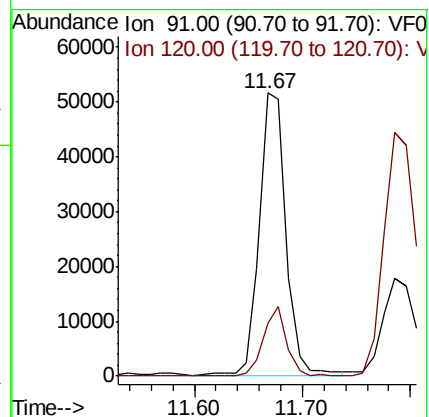
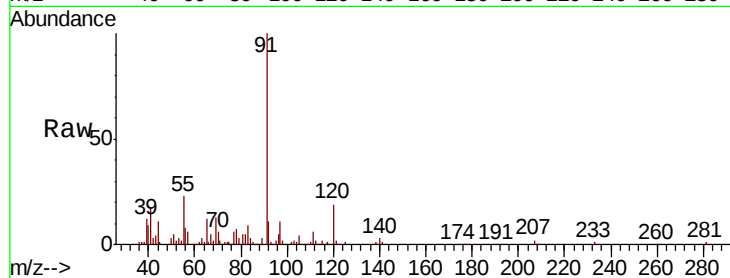
ClientSampleId :

Tot Ion: 91 Resp: 88280

Ion Ratio Lower Upper

91 100

120 21.2 11.2 33.6



#79

2-Chlorotoluene

Concen: 3.236 ug/l

RT: 11.79 min Scan# 1142

Delta R.T. -0.00 min

Lab File: VF062213.D

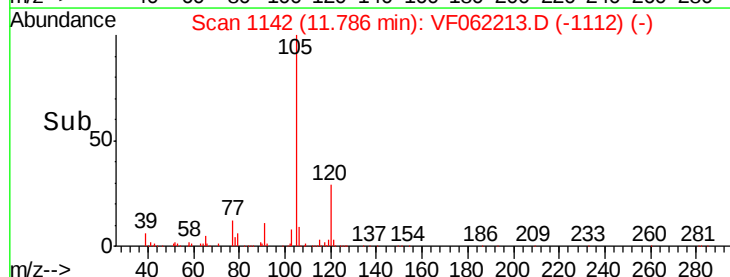
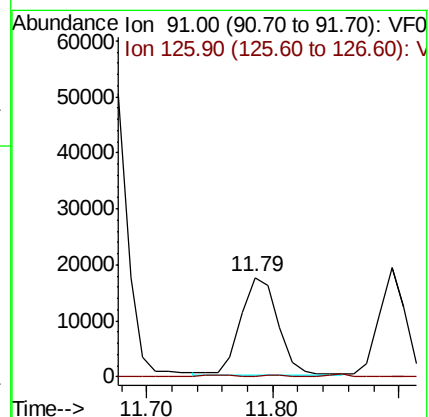
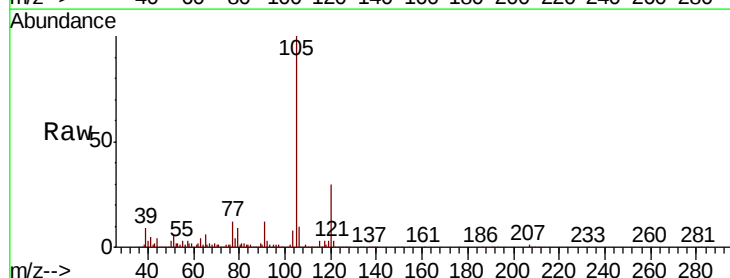
Acq: 18 Apr 2019 19:06

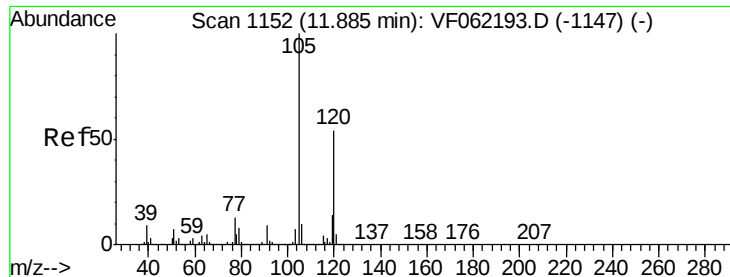
Tgt Ion: 91 Resp: 36328

Ion Ratio Lower Upper

91 100

126 1.6 16.9 50.6#





#80

1,3,5-Trimethylbenzene

Concen: 19.231 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

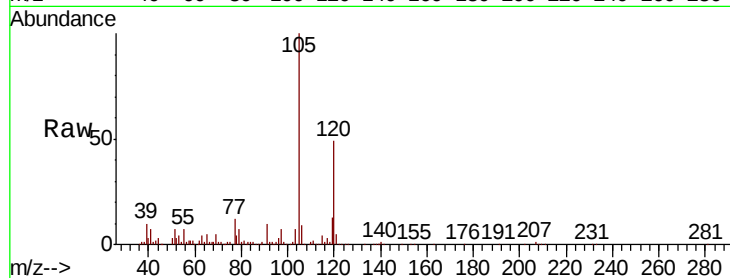
ClientSampled :

Tot Ion:105 Resp: 281011

Ion Ratio Lower Upper

105 100

120 49.5 26.2 78.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.89

200000

150000

100000

50000

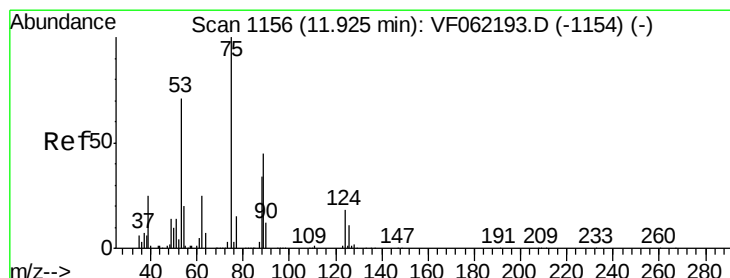
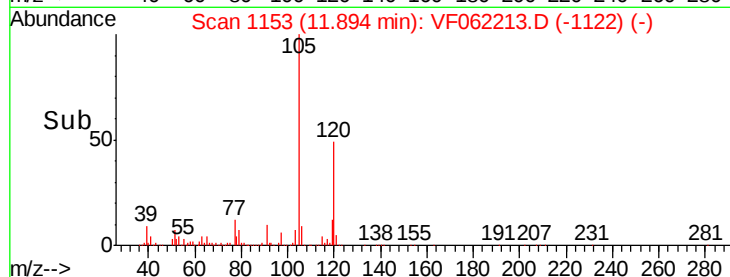
0

Time-->

11.80

11.90

12.00



#81

trans-1,4-Dichloro-2-butene

Concen: 3.062 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. -0.03 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

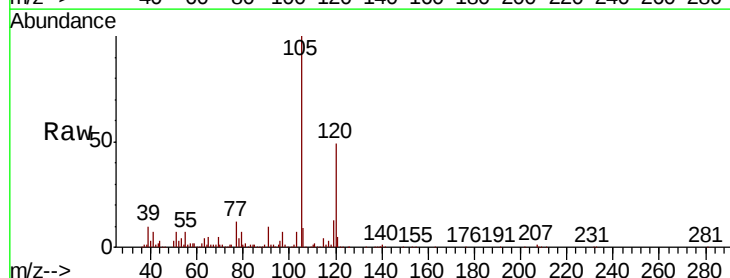
Tgt Ion: 75 Resp: 3242

Ion Ratio Lower Upper

75 100

53 280.0 50.2 75.4#

89 121.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 53.00 (52.70 to 53.70): VF0

Ion 88.90 (88.60 to 89.60): VF0

10000

8000

6000

4000

2000

0

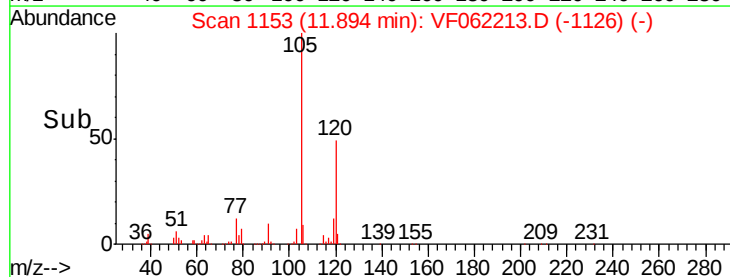
Time-->

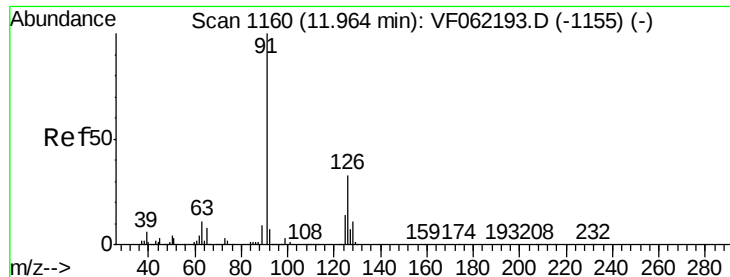
11.80

11.85

11.90

11.95





#82

4-Chlorotoluene

Concen: 2.494 ug/l

RT: 11.89 min Scan# 1153

Delta R.T. -0.07 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

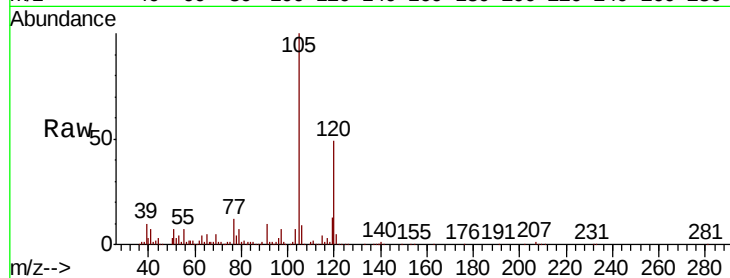
ClientSampleId :

Tot Ion: 91 Resp: 27063

Ion Ratio Lower Upper

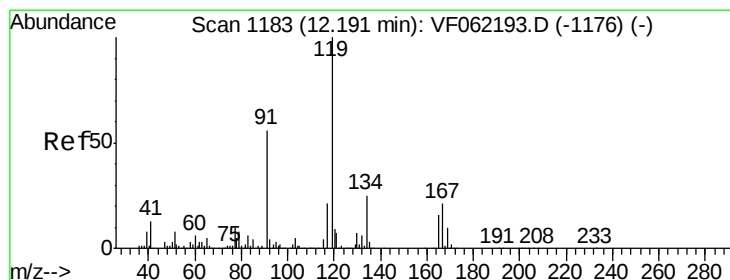
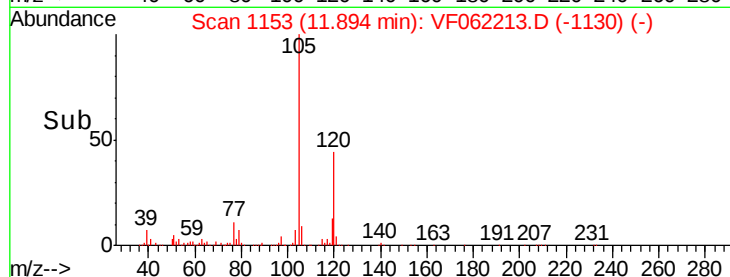
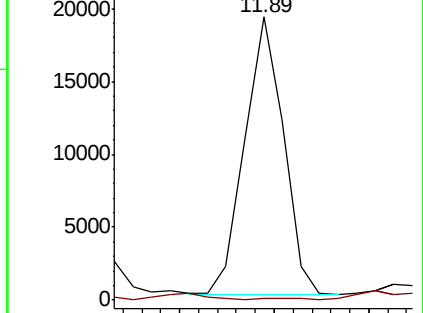
91 100

126 0.8 16.9 50.6#



Abundance Ion 91.00 (90.70 to 91.70): VF0

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 0.276 ug/l

RT: 12.20 min Scan# 1184

Delta R.T. 0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

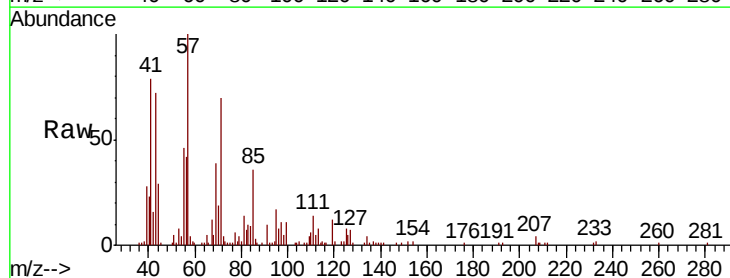
Tgt Ion: 119 Resp: 4167

Ion Ratio Lower Upper

119 100

91 75.3 29.4 88.2

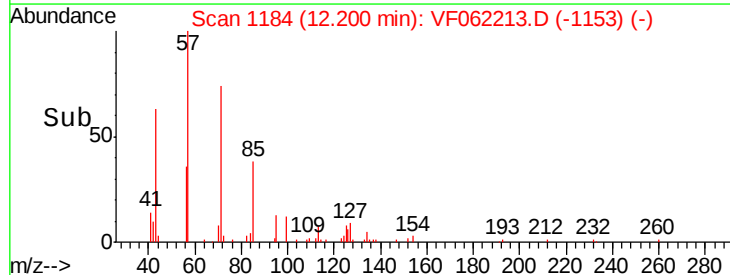
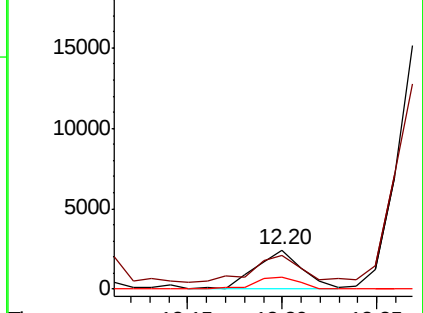
134 28.5 11.8 35.3

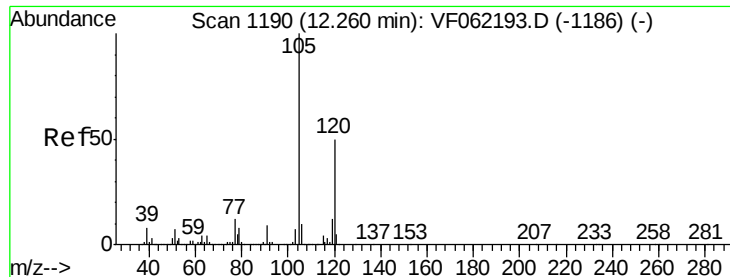


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VF0

Ion 134.00 (133.70 to 134.70): V

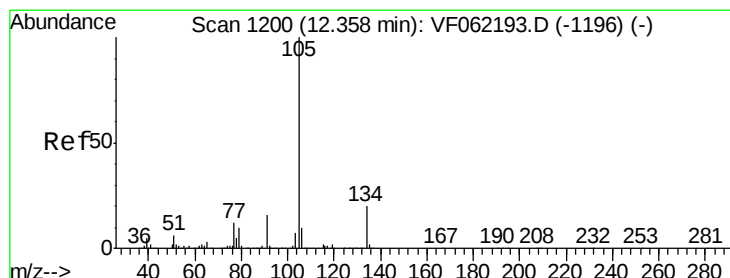
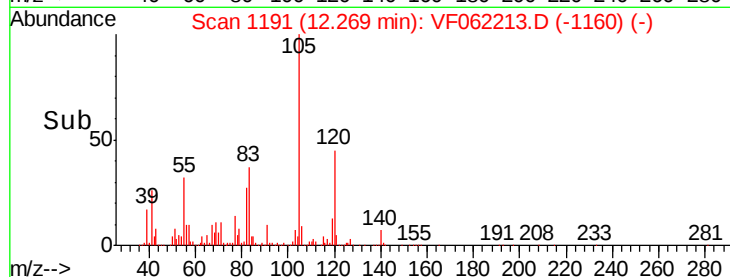
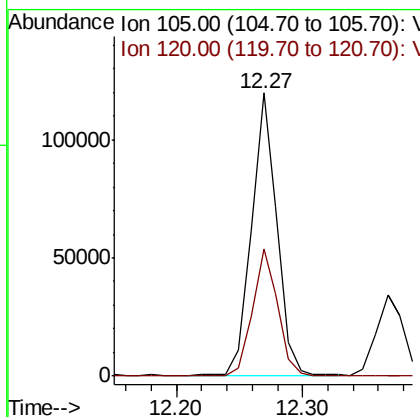
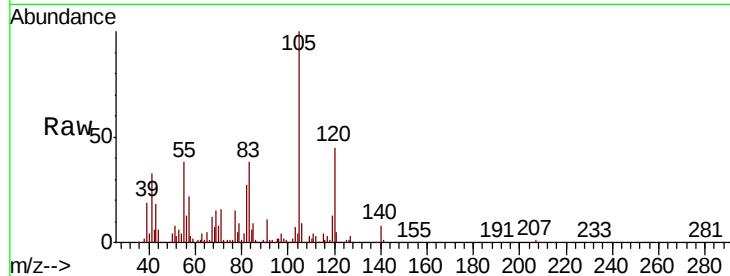




#84
 1,2,4-Trimethylbenzene
 Concen: 11.755 ug/l
 RT: 12.27 min Scan# 1191
 Delta R.T. 0.01 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

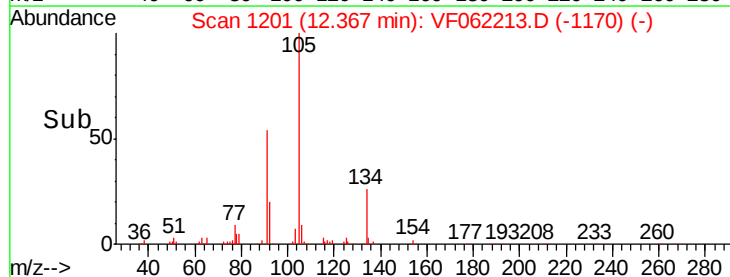
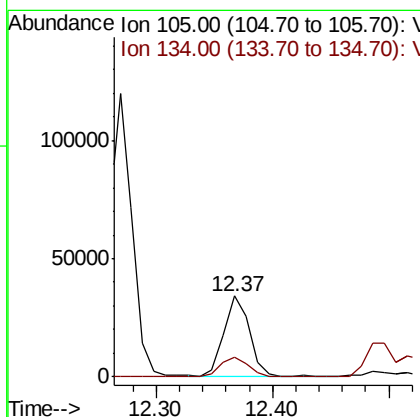
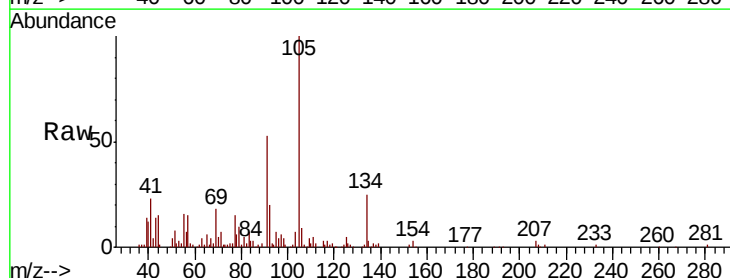
Instrument :
 MSVOA_F
 ClientSampled :

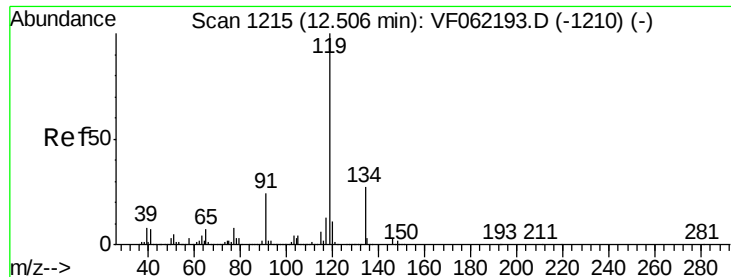
Tot Ion:105 Resp: 166228
 Ion Ratio Lower Upper
 105 100
 120 45.2 24.0 72.0



#85
 sec-Butylbenzene
 Concen: 2.625 ug/l
 RT: 12.37 min Scan# 1201
 Delta R.T. 0.01 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

Tgt Ion:105 Resp: 51494
 Ion Ratio Lower Upper
 105 100
 134 27.6 9.7 29.1

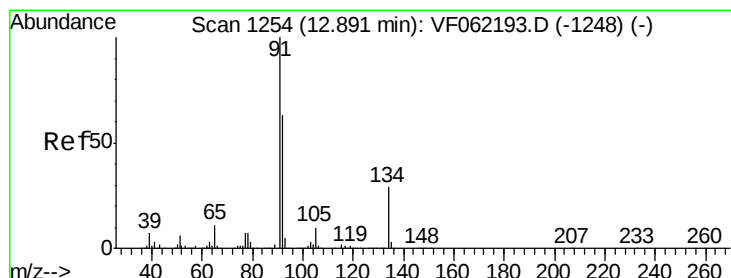
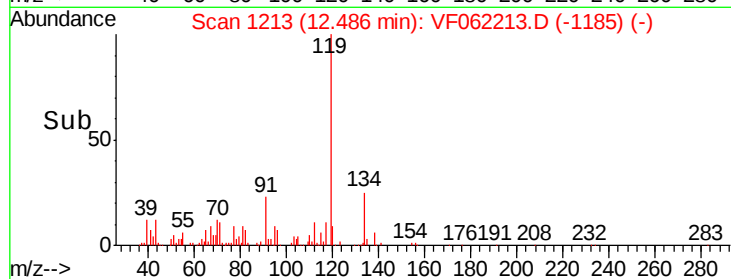
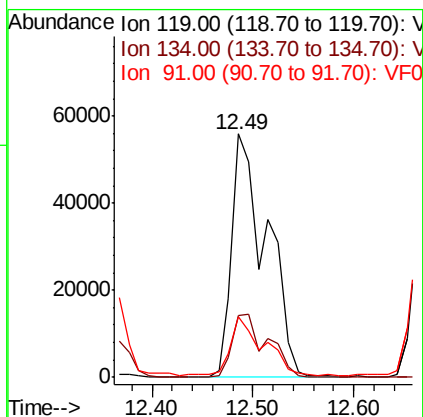
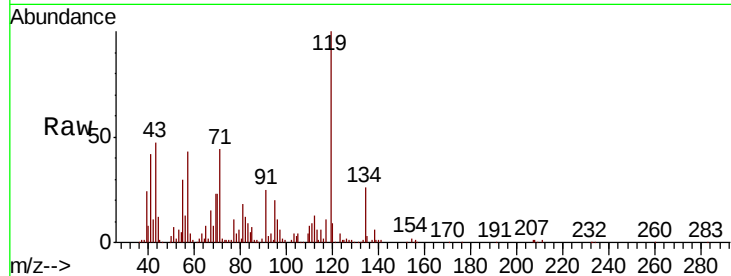




#86
 p-Isopropyltoluene
 Concen: 8.022 ug/l
 RT: 12.49 min Scan# 1213
 Delta R.T. -0.02 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

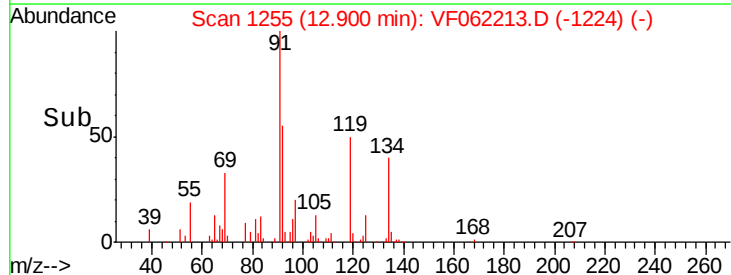
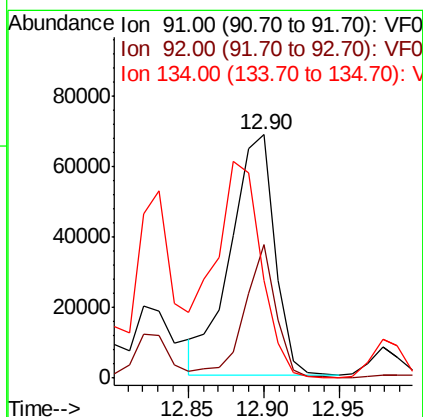
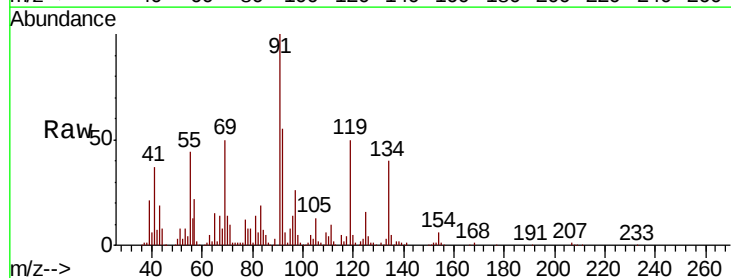
Instrument :
 MSVOA_F
 ClientSampleId :

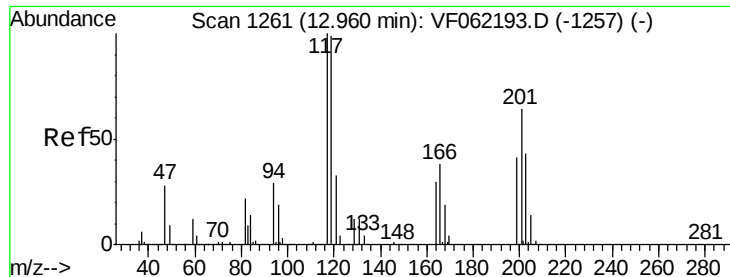
Tot Ion	Ratio	Lower	Upper
119	100		
134	26.3	13.2	39.5
91	23.3	11.7	35.1



#89
 n-Butylbenzene
 Concen: 5.438 ug/l
 RT: 12.90 min Scan# 1255
 Delta R.T. 0.01 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	40.2	31.2	93.6
134	94.8	13.1	39.1#





#90

Hexachloroethane

Concen: 6.233 ug/l

RT: 12.88 min Scan# 1253

Delta R.T. -0.08 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

Instrument :

MSVOA_F

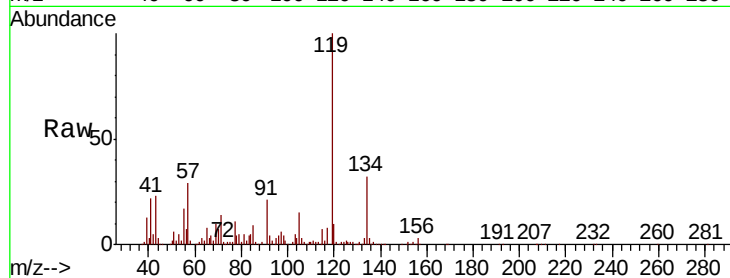
ClientSampleId :

Tot Ion:117 Resp: 26638

Ion Ratio Lower Upper

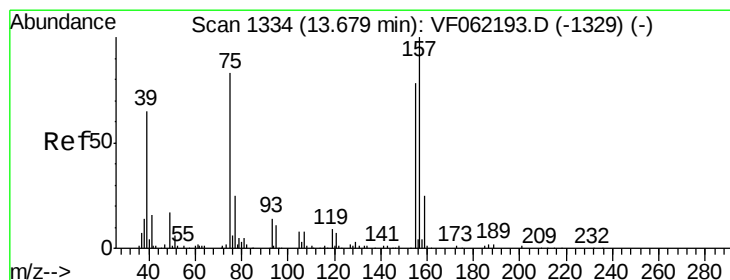
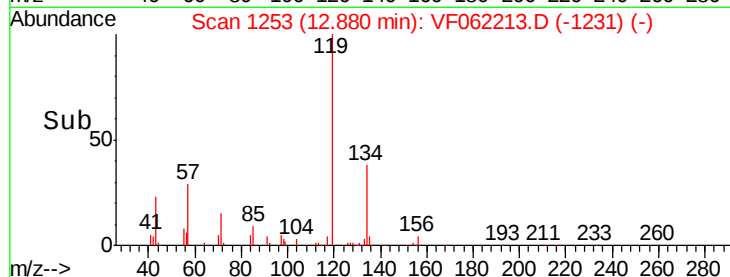
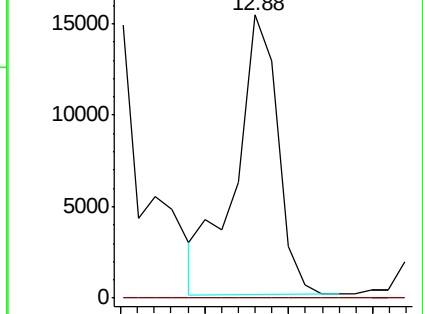
117 100

201 0.0 37.7 113.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.179 ug/l

RT: 13.67 min Scan# 1333

Delta R.T. -0.01 min

Lab File: VF062213.D

Acq: 18 Apr 2019 19:06

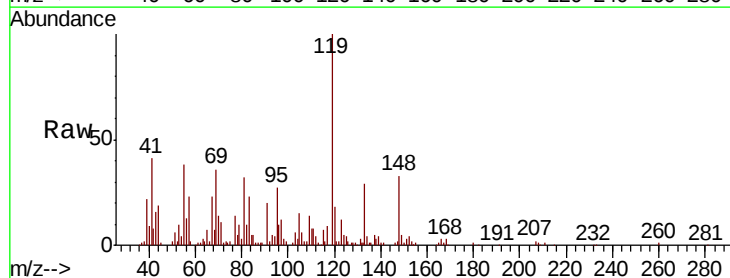
Tgt Ion: 75 Resp: 1292

Ion Ratio Lower Upper

75 100

155 0.0 47.6 142.8#

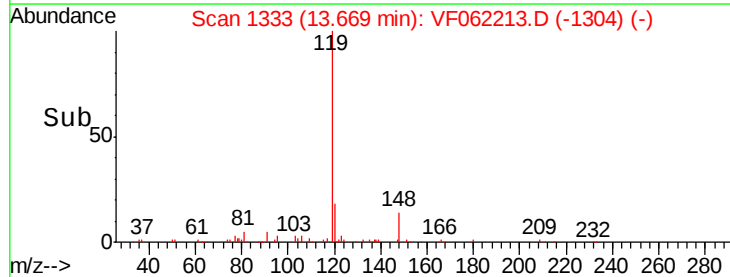
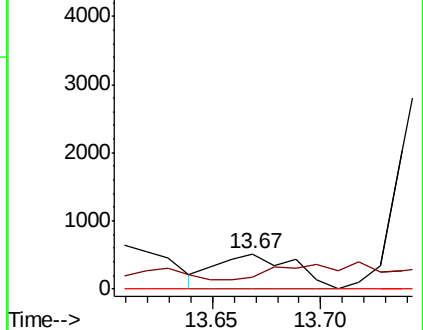
157 0.0 61.3 183.9#

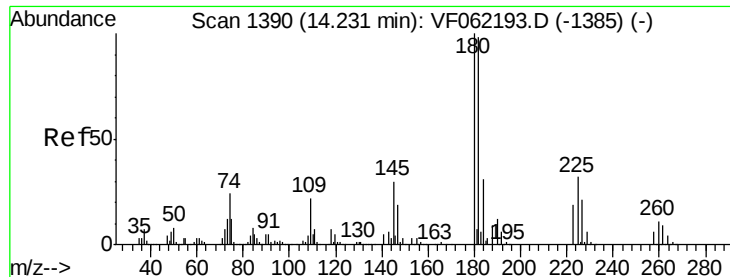


Abundance Ion 74.90 (74.60 to 75.60): VF0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

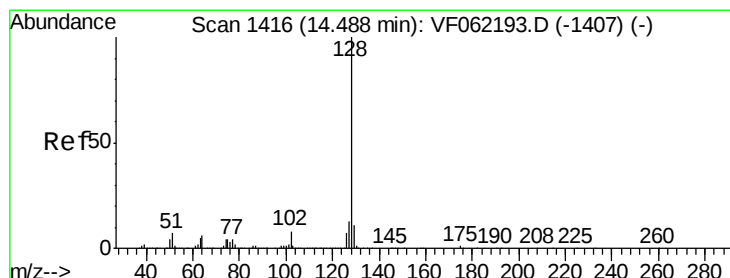
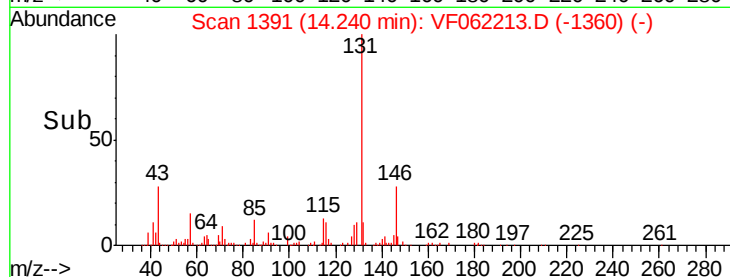
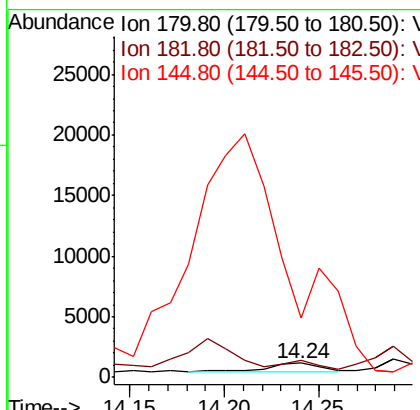
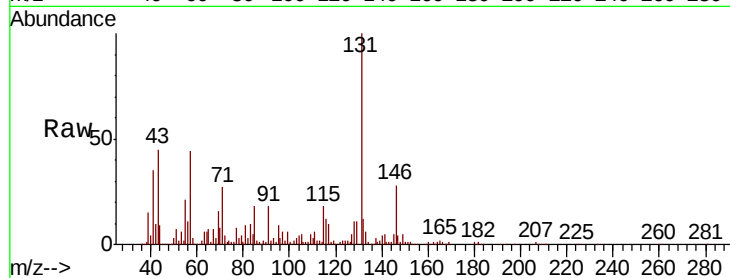




#93
 1,2,4-Trichlorobenzene
 Concen: 0.234 ug/l
 RT: 14.24 min Scan# 1391
 Delta R.T. 0.01 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

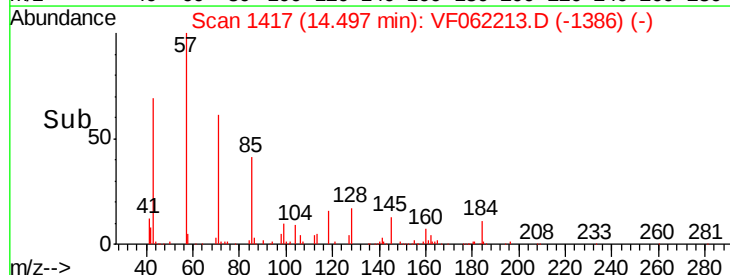
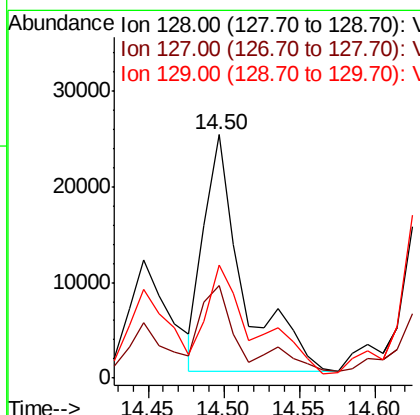
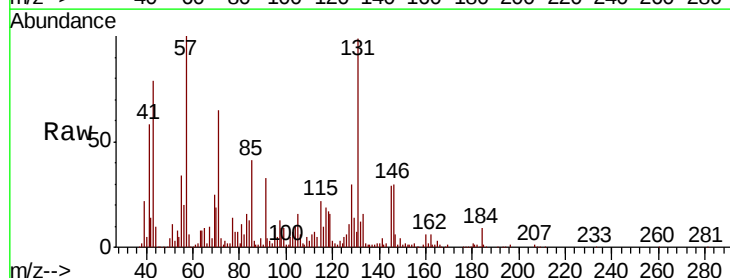
Instrument :
 MSVOA_F
 ClientSampled :

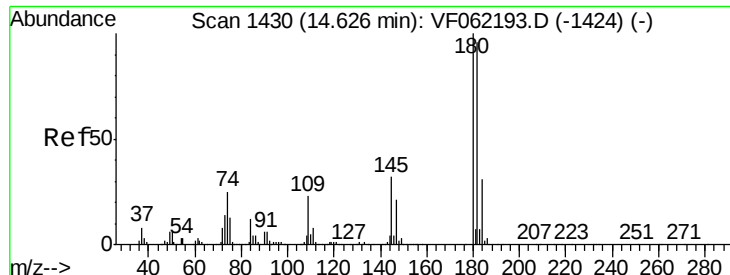
Tot Ion:180 Resp: 1318
 Ion Ratio Lower Upper
 180 100
 182 0.0 49.3 147.9#
 145 0.0 18.1 54.4#



#95
 Naphthalene
 Concen: 4.530 ug/l
 RT: 14.50 min Scan# 1417
 Delta R.T. 0.01 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

Tgt Ion:128 Resp: 44632
 Ion Ratio Lower Upper
 128 100
 127 19.8 10.4 15.6#
 129 56.0 9.2 13.8#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.591 ug/l
 RT: 14.59 min Scan# 1426
 Delta R.T. -0.04 min
 Lab File: VF062213.D
 Acq: 18 Apr 2019 19:06

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.4	145.3#
145	909.2	15.6	46.8#

