

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF032519\
 Data File : VF062134.D
 Acq On : 25 Mar 2019 16:23
 Operator : VA/AP
 Sample : K2091-01
 Misc : 4.88g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Mar 26 04:21:09 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	248643	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	388540	50.00	ug/l	-0.03
63) Chlorobenzene-d5	9.77	117	259656	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	93210	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	71315	38.56	ug/l	-0.03
Spiked Amount 50.000			Recovery =	77.12%		
35) Dibromofluoromethane	4.12	113	104410	39.73	ug/l	-0.03
Spiked Amount 50.000			Recovery =	79.46%		
50) Toluene-d8	7.55	98	234323	29.87	ug/l	-0.04
Spiked Amount 50.000			Recovery =	59.74%		
62) 4-Bromofluorobenzene	11.41	95	73164	24.16	ug/l	-0.03
Spiked Amount 50.000			Recovery =	48.32%		

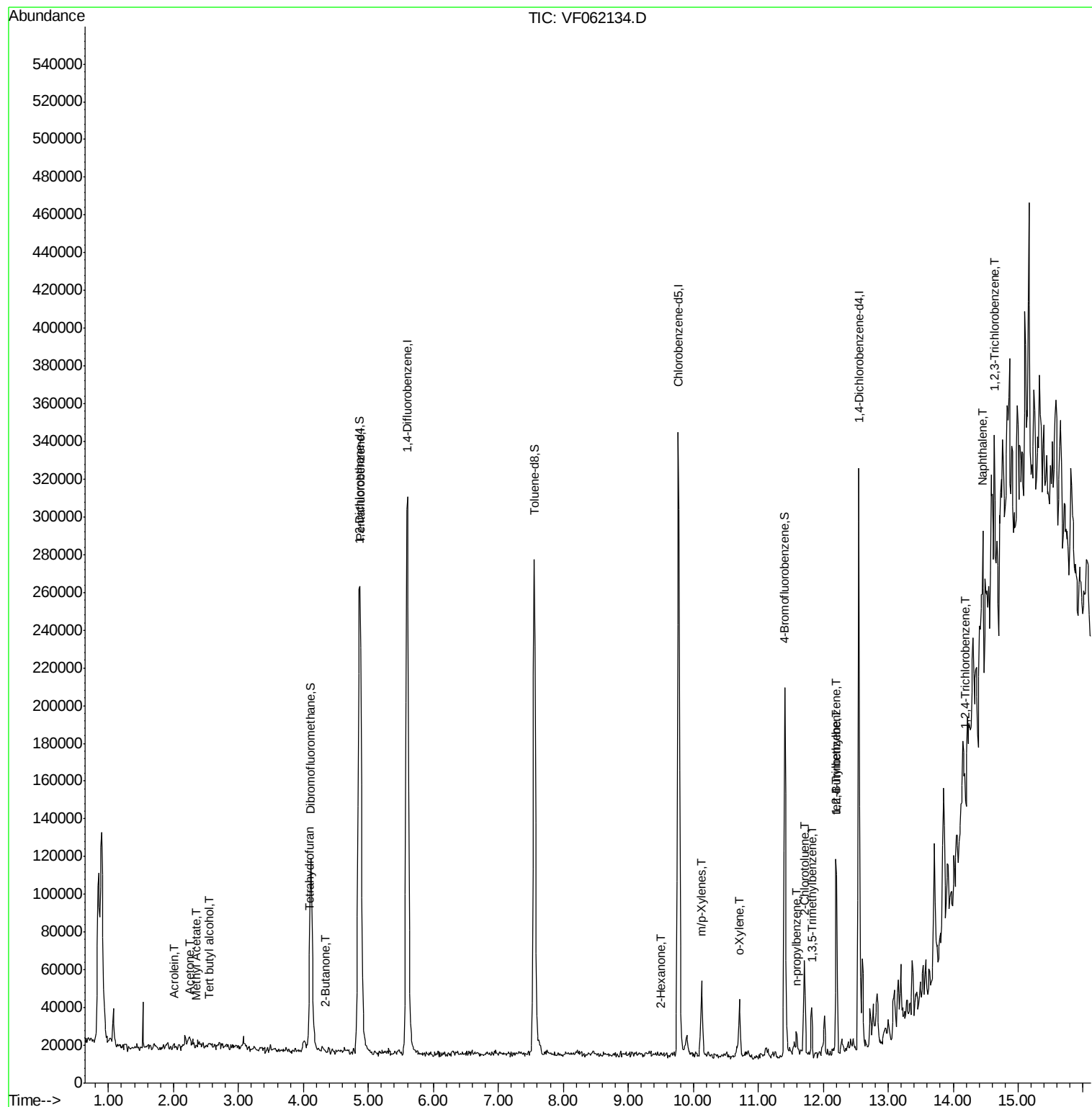
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	1040	10.220	ug/l #	66
13) Acrolein	2.02	56	169	1.381	ug/l #	52
16) Acetone	2.27	43	2035	5.228	ug/l #	49
18) Methyl Acetate	2.34	43	2923	3.148	ug/l #	56
20) Methylene Chloride	2.18	84	2604	Below Cal	#	83
25) 2-Butanone	4.35	43	944	1.162	ug/l #	55
29) Tetrahydrofuran	4.08	42	964	2.729	ug/l #	61
59) 2-Hexanone	9.51	43	1066	1.109	ug/l	86
68) m/p-Xylenes	10.13	106	13709	4.341	ug/l	88
69) o-Xylene	10.71	106	9070	2.742	ug/l	93
78) n-propylbenzene	11.60	91	8132	1.068	ug/l	100
79) 2-Chlorotoluene	11.71	91	4651	1.099	ug/l #	49
80) 1,3,5-Trimethylbenzene	11.82	105	14289	2.649	ug/l	89
83) tert-Butylbenzene	12.20	119	7110	1.259	ug/l #	63
84) 1,2,4-Trimethylbenzene	12.21	105	54351	10.277	ug/l	96
93) 1,2,4-Trichlorobenzene	14.19	180	2021	1.037	ug/l #	41
95) Naphthalene	14.46	128	4852	1.421	ug/l #	80
96) 1,2,3-Trichlorobenzene	14.63	180	15672	8.593	ug/l #	21

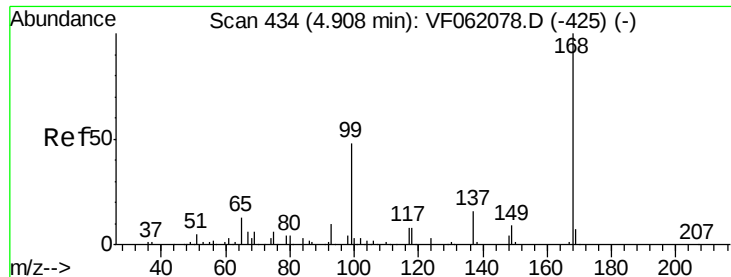
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF062134.D

Acq: 25 Mar 2019 16:23

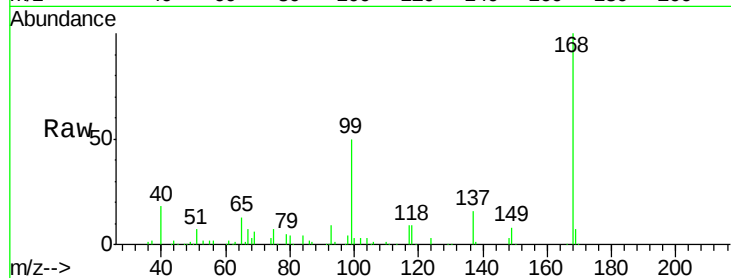
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 248643

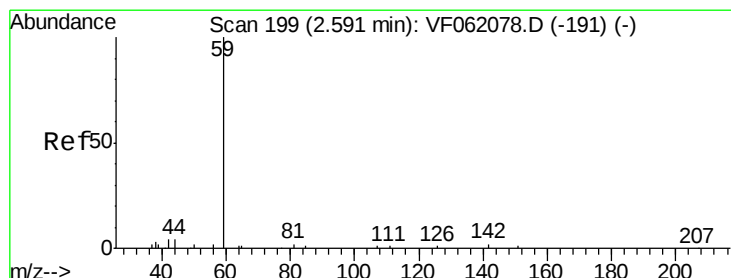
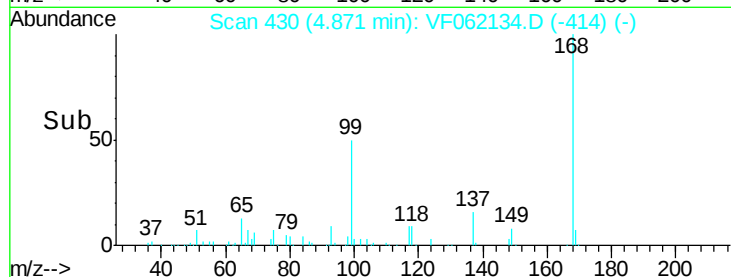
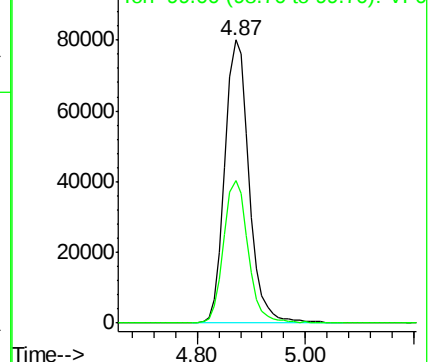
Ion Ratio Lower Upper

168 100

99 50.3 38.2 57.4



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 10.220 ug/l

RT: 2.56 min Scan# 196

Delta R.T. -0.03 min

Lab File: VF062134.D

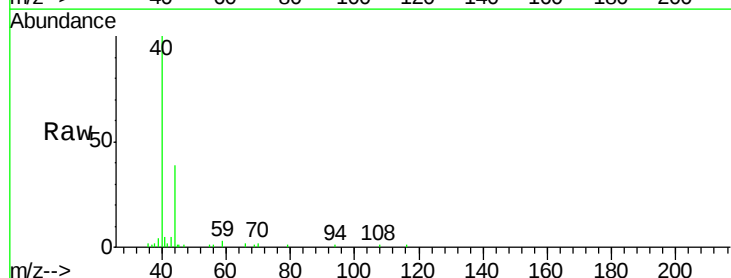
Acq: 25 Mar 2019 16:23

Tgt Ion: 59 Resp: 1040

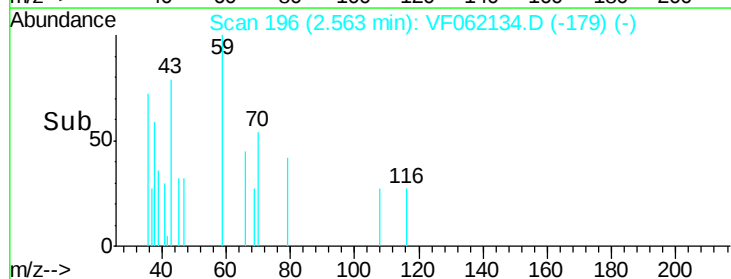
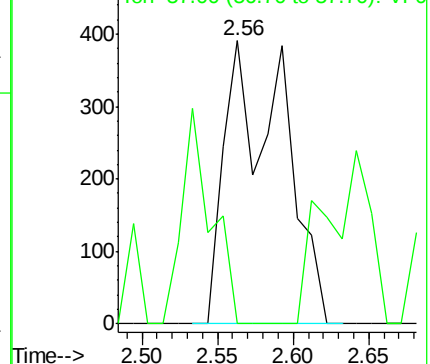
Ion Ratio Lower Upper

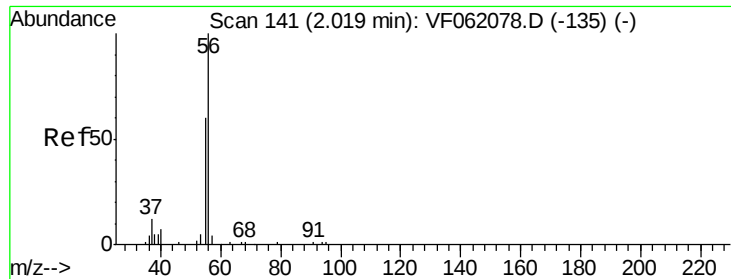
59 100

57 0.0 11.0 16.4#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 1.381 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.00 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

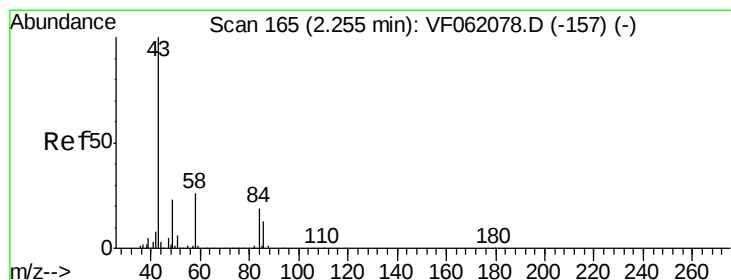
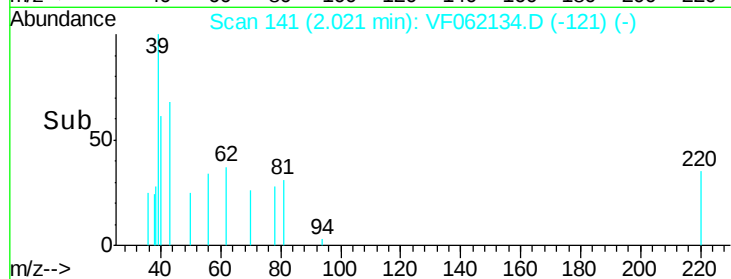
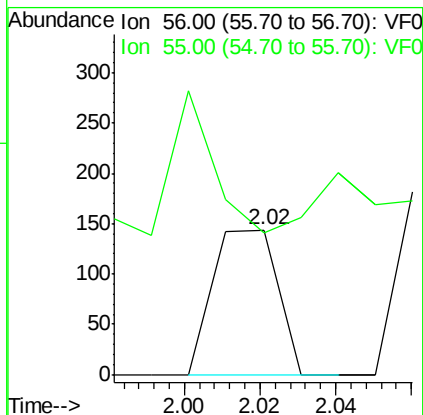
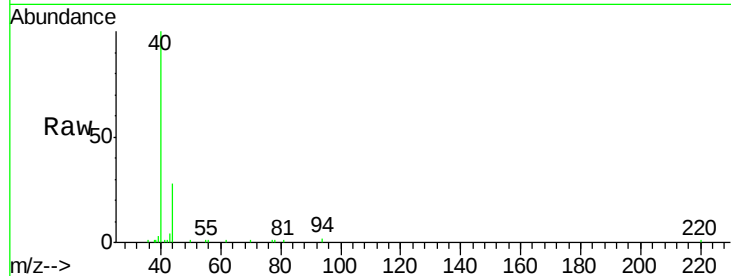
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

56 100

55 97.9 49.0 73.4#



#16

Acetone

Concen: 5.228 ug/l

RT: 2.27 min Scan# 166

Delta R.T. 0.01 min

Lab File: VF062134.D

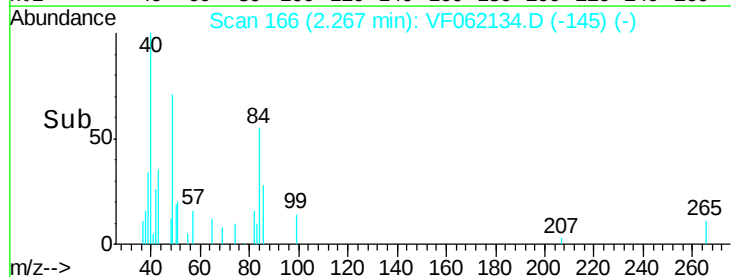
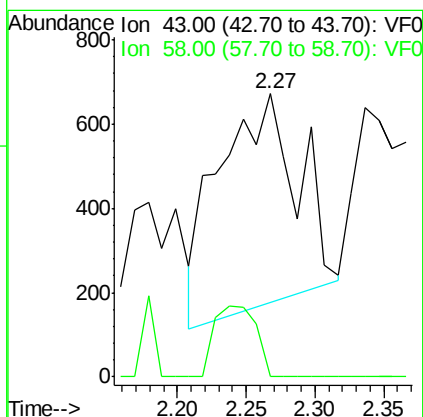
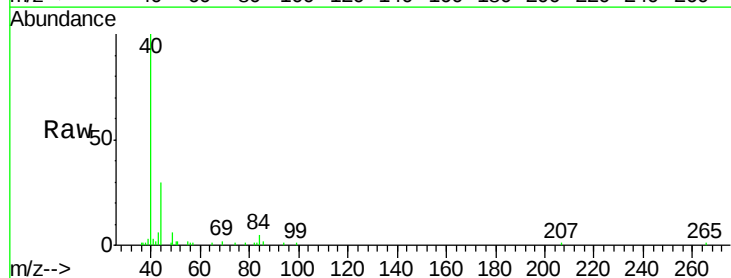
Acq: 25 Mar 2019 16:23

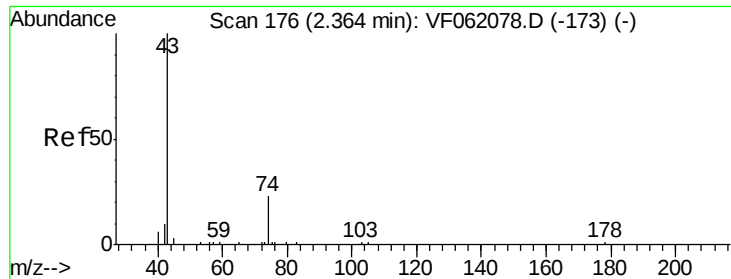
Tgt Ion: 43 Resp: 2035

Ion Ratio Lower Upper

43 100

58 0.0 20.8 31.2#

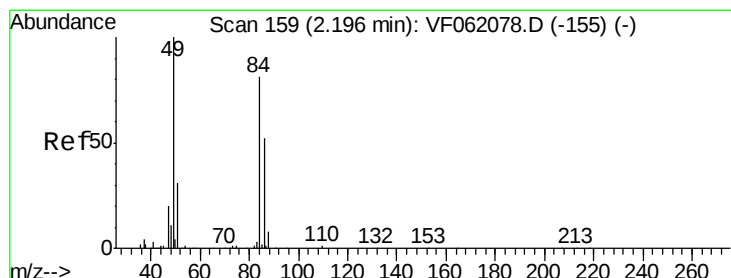
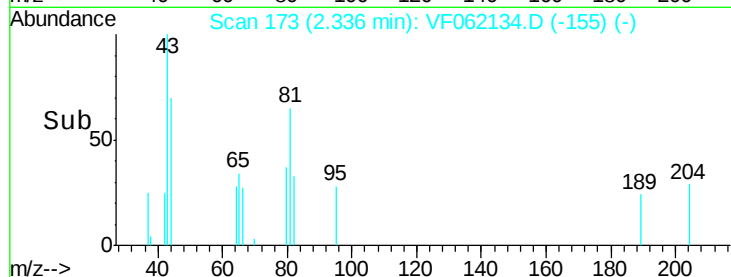
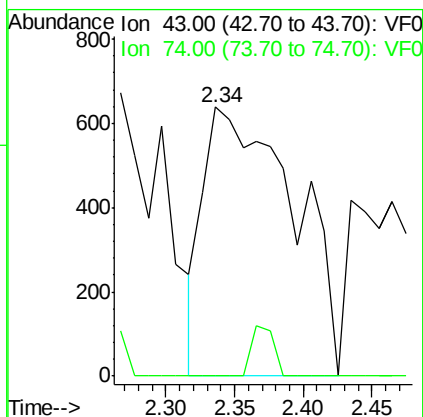
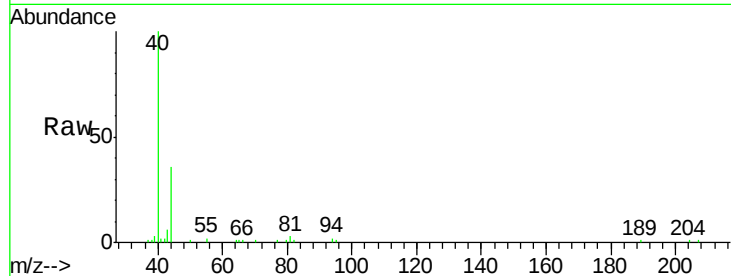




#18
Methyl Acetate
Concen: 3.148 ug/l
RT: 2.34 min Scan# 173
Delta R.T. -0.03 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

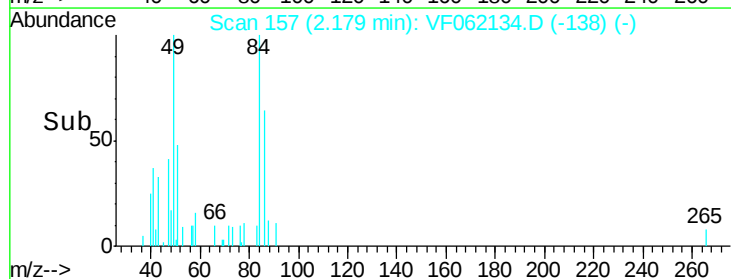
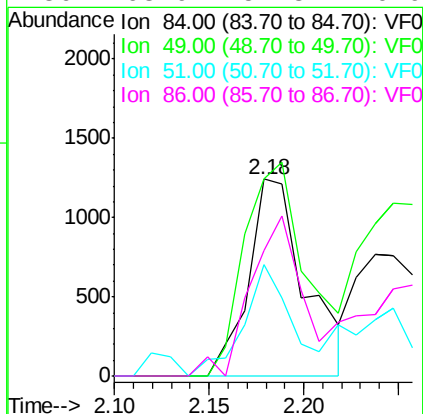
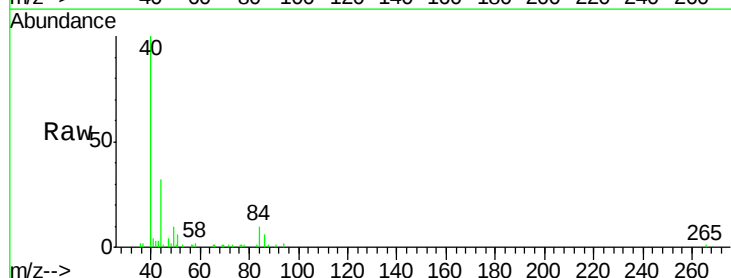
Instrument :
MSVOA_F
ClientSampleId :

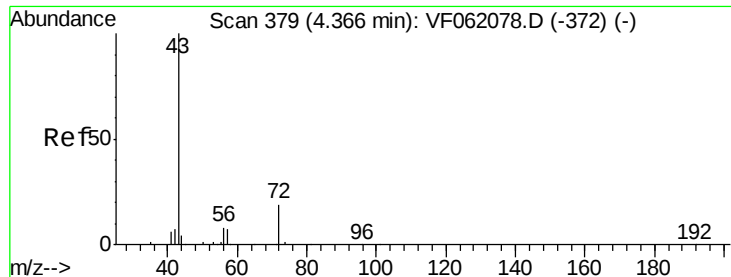
Tot Ion: 43 Resp: 2923
Ion Ratio Lower Upper
43 100
74 0.0 16.3 24.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.18 min Scan# 157
Delta R.T. -0.02 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Tgt Ion: 84 Resp: 2604
Ion Ratio Lower Upper
84 100
49 100.2 100.4 150.6#
51 56.4 31.0 46.6#
86 63.9 51.3 76.9





#25

2-Butanone

Concen: 1.162 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

Instrument :

MSVOA_F

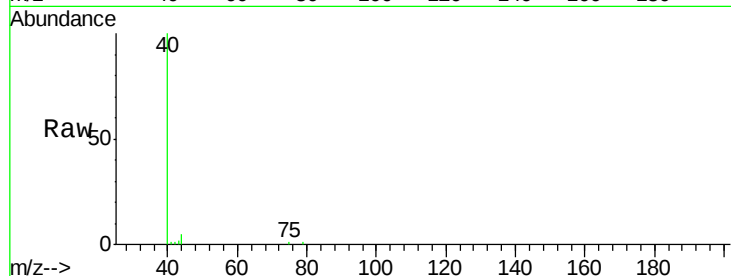
ClientSampled :

Tot Ion: 43 Resp: 944

Ion Ratio Lower Upper

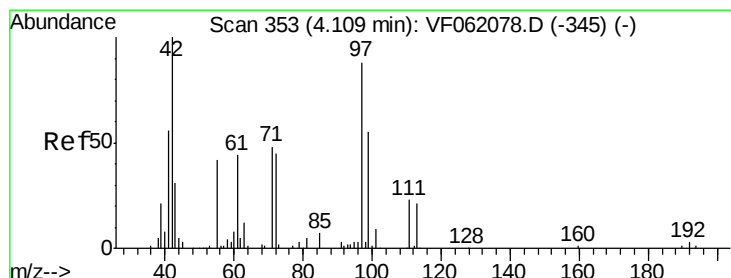
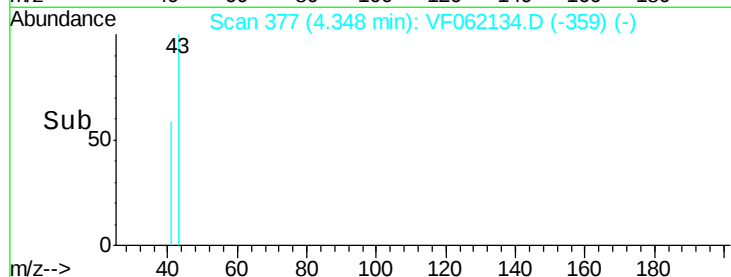
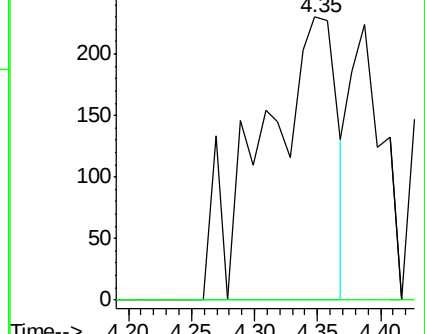
43 100

72 0.0 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



#29

Tetrahydrofuran

Concen: 2.729 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

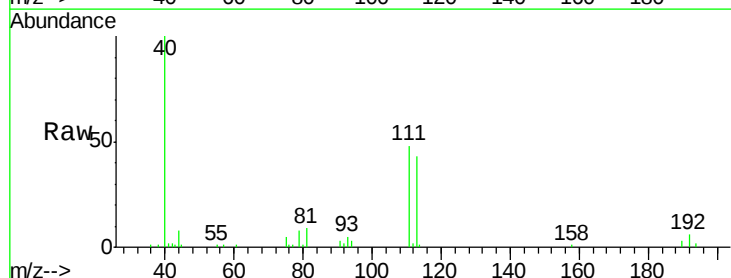
Tgt Ion: 42 Resp: 964

Ion Ratio Lower Upper

42 100

72 11.7 33.3 49.9#

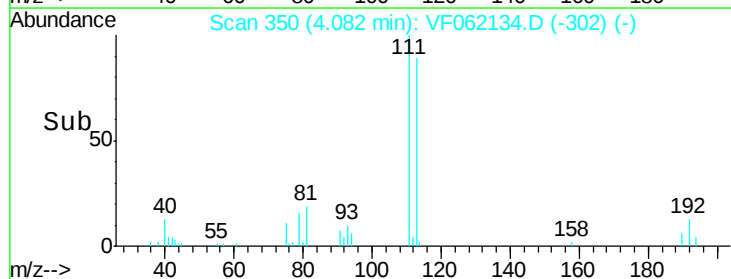
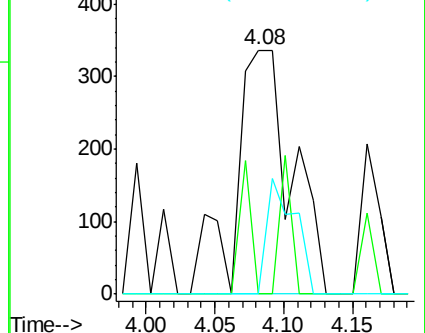
71 23.4 35.0 52.4#

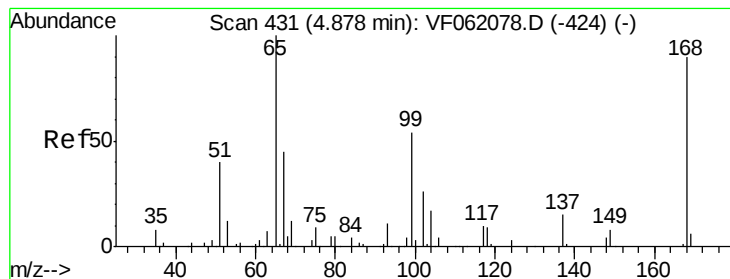


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 38.561 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

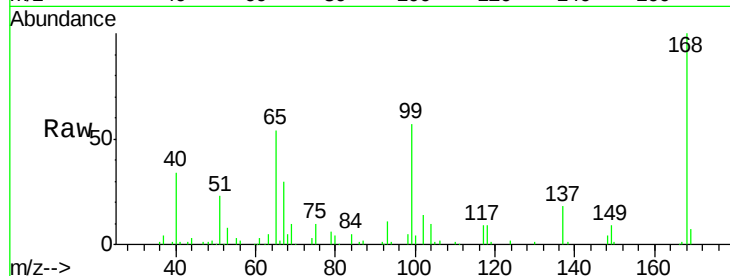
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 71315

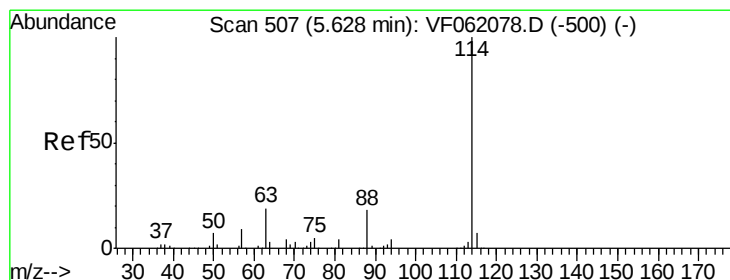
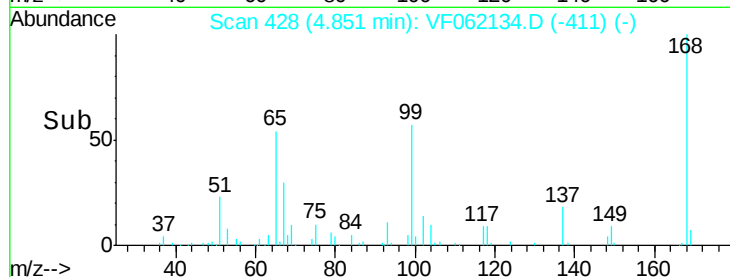
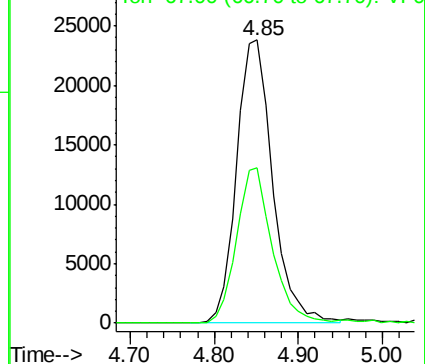
Ion Ratio Lower Upper

65 100

67 55.1 0.0 106.2



Abundance Ion 65.00 (64.70 to 65.70): VF0
Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.03 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

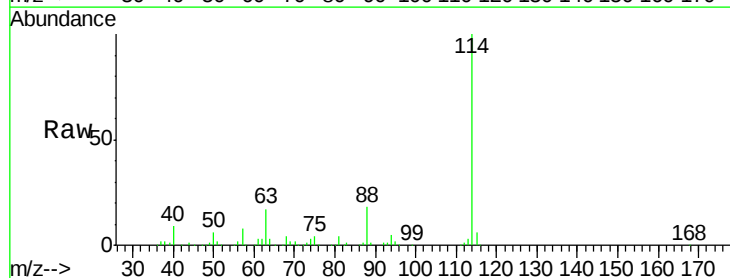
Tgt Ion: 114 Resp: 388540

Ion Ratio Lower Upper

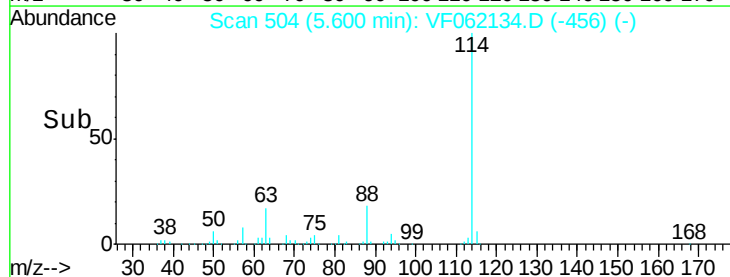
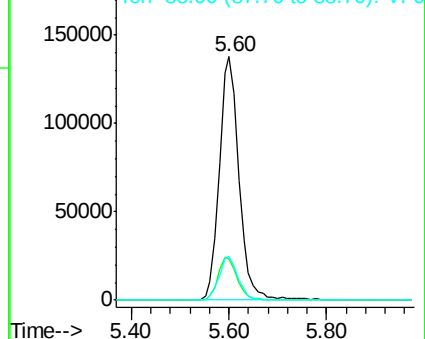
114 100

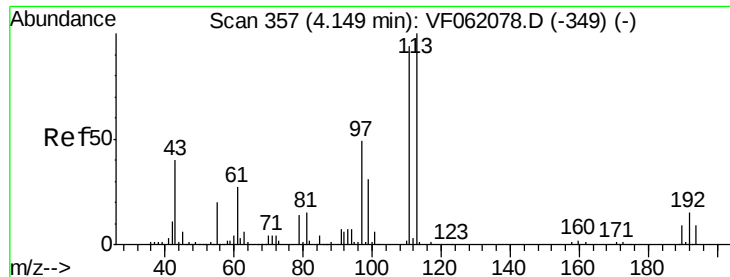
63 16.8 0.0 37.8

88 18.3 0.0 36.4



Abundance Ion 114.00 (113.70 to 114.70): V
Ion 63.00 (62.70 to 63.70): VF0
Ion 88.00 (87.70 to 88.70): VF0





#35

Dibromofluoromethane

Concen: 39.725 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.03 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

Instrument :
MSVOA_F
ClientSampleId :

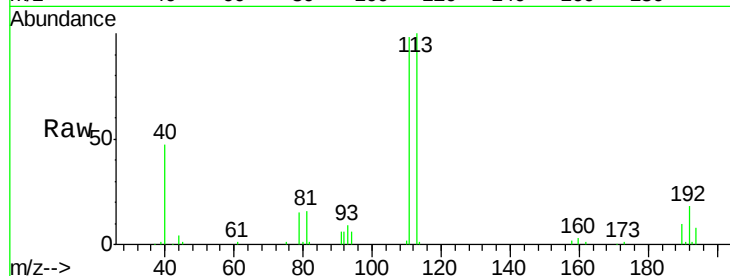
Tot Ion:113 Resp: 104410

Ion Ratio Lower Upper

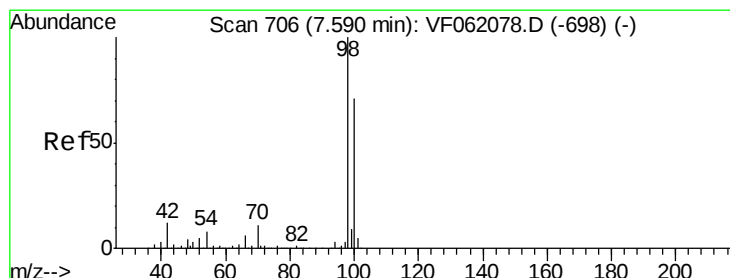
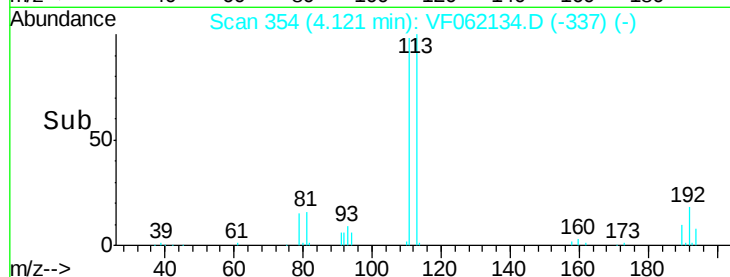
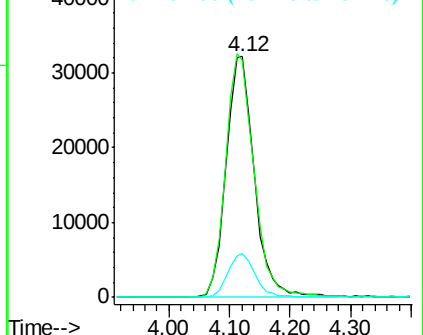
113 100

111 98.3 75.4 113.0

192 18.7 12.3 18.5#



Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V



#50

Toluene-d8

Concen: 29.867 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF062134.D

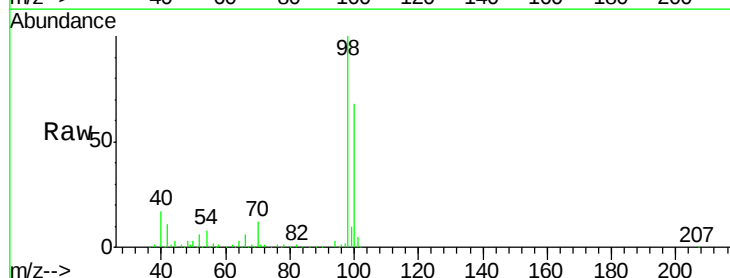
Acq: 25 Mar 2019 16:23

Tgt Ion: 98 Resp: 234323

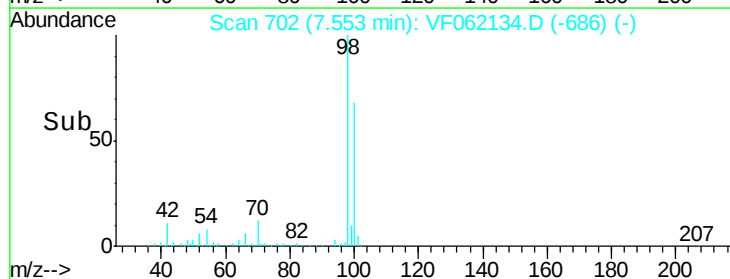
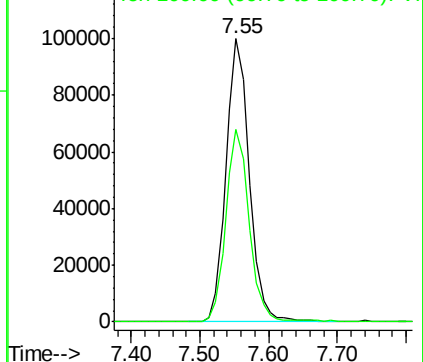
Ion Ratio Lower Upper

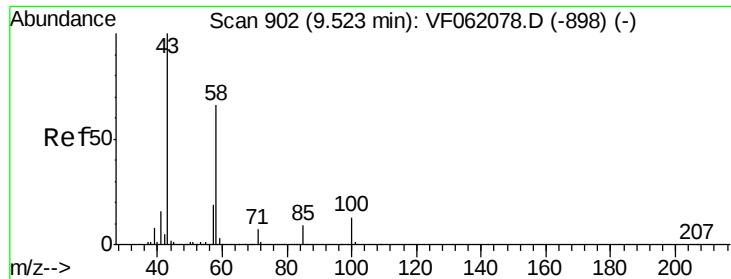
98 100

100 68.2 57.0 85.6



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

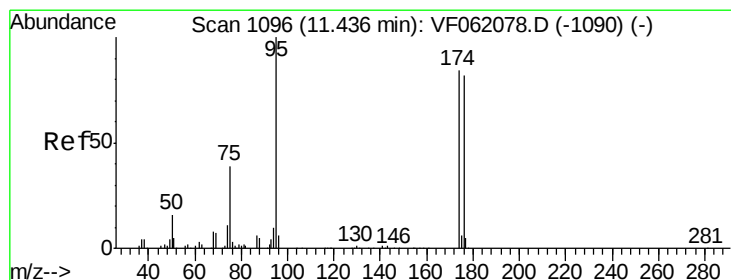
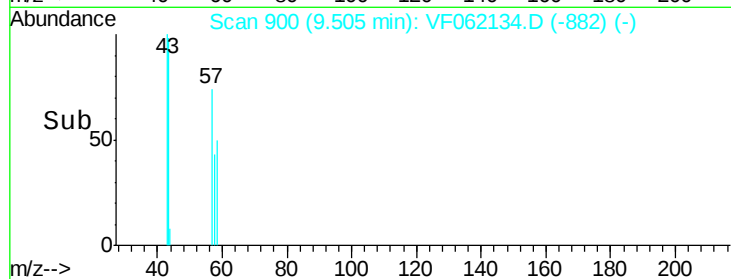
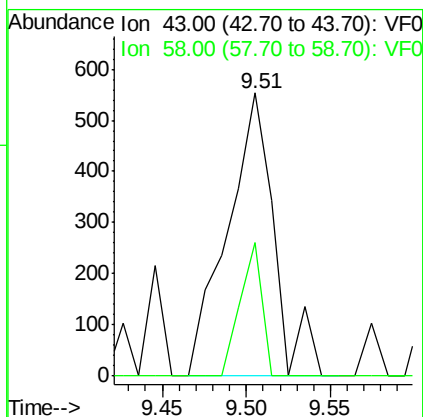
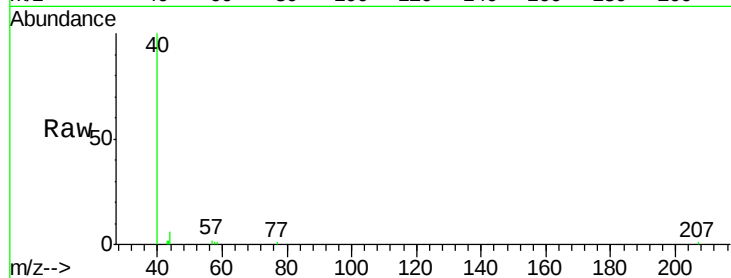




#59
2-Hexanone
Concen: 1.109 ug/l
RT: 9.51 min Scan# 900
Delta R.T. -0.02 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

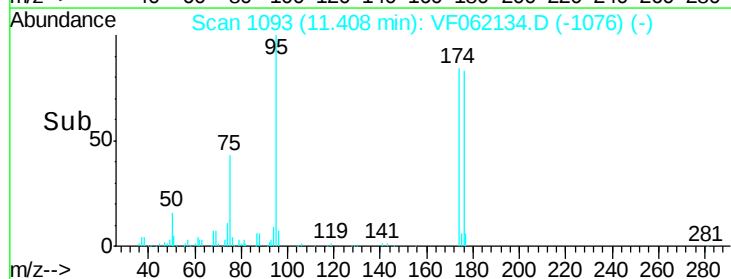
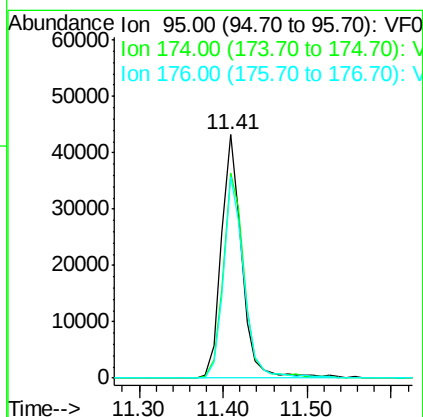
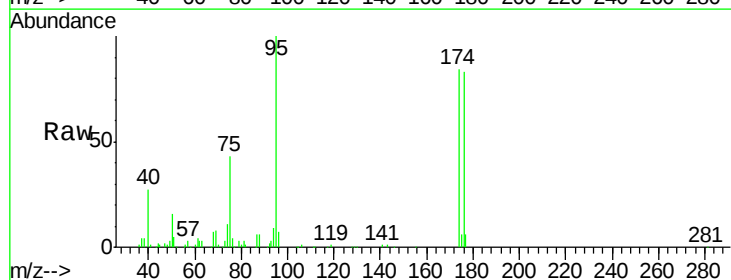
Instrument :
MSVOA_F
ClientSampleId :

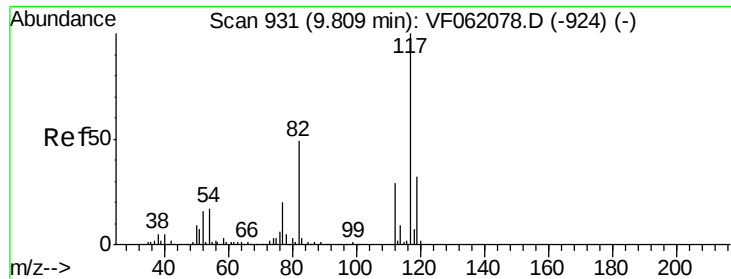
Tot Ion: 43 Resp: 1066
Ion Ratio Lower Upper
43 100
58 47.0 28.8 86.4



#62
4-Bromofluorobenzene
Concen: 24.156 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Tgt Ion: 95 Resp: 73164
Ion Ratio Lower Upper
95 100
174 84.4 0.0 168.2
176 82.5 0.0 164.2

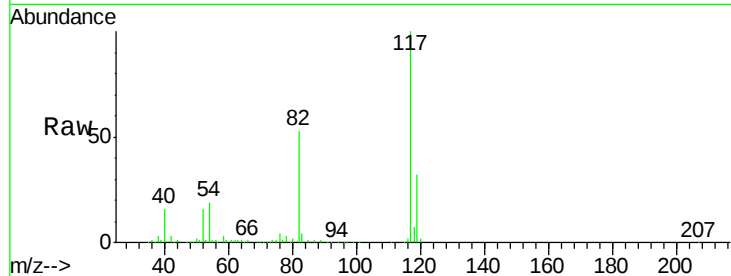




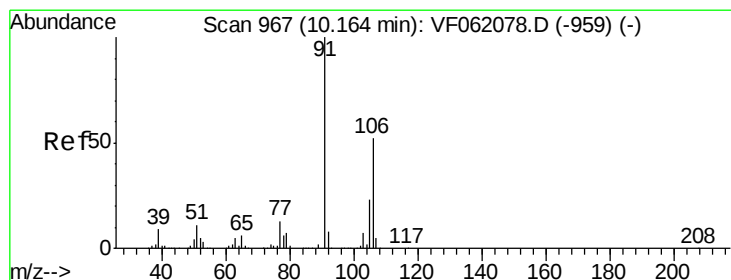
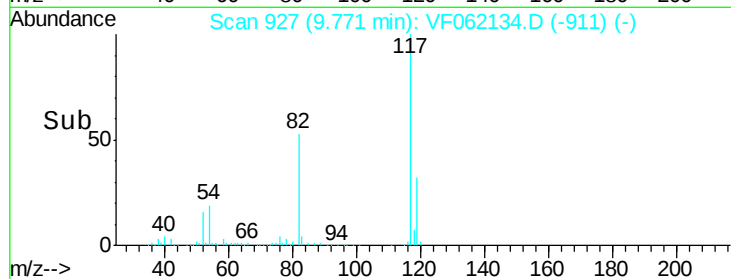
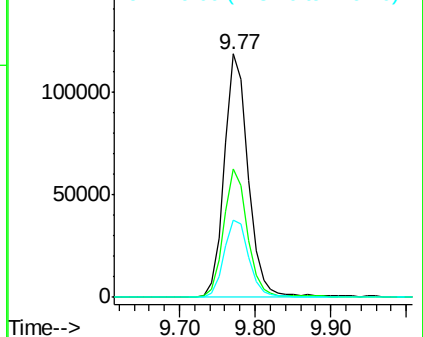
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:117 Resp: 259656
Ion Ratio Lower Upper
117 100
82 52.9 39.2 58.8
119 31.7 25.4 38.2

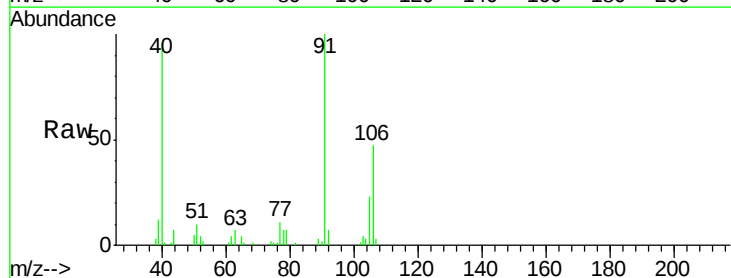


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

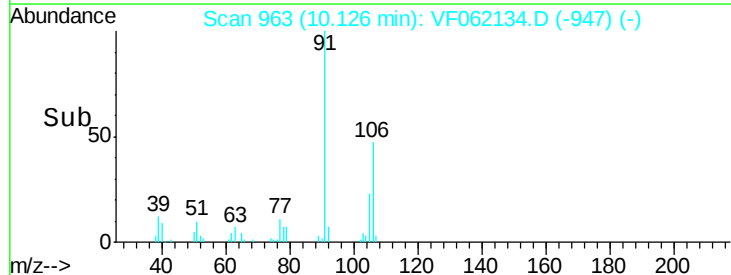
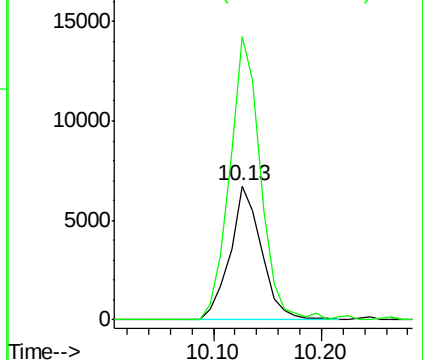


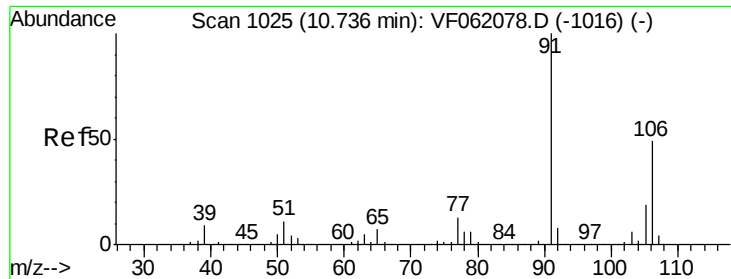
#68
m/p-Xylenes
Concen: 4.341 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.04 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Tgt Ion:106 Resp: 13709
Ion Ratio Lower Upper
106 100
91 211.4 154.4 231.6



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

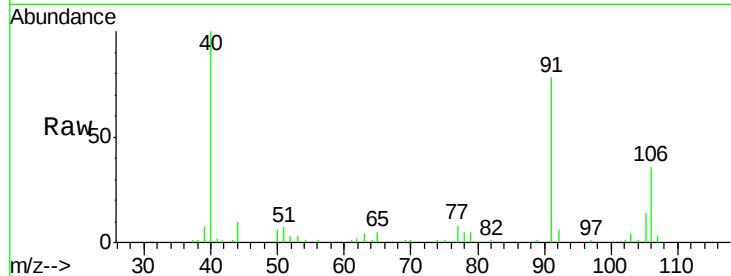




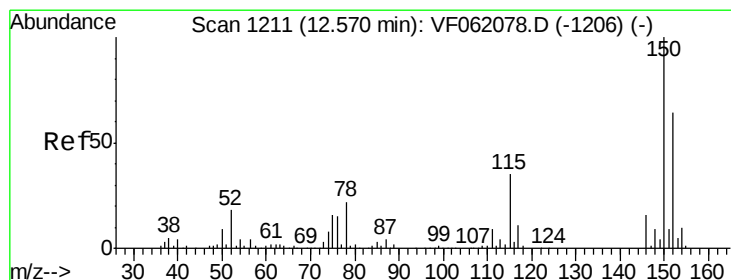
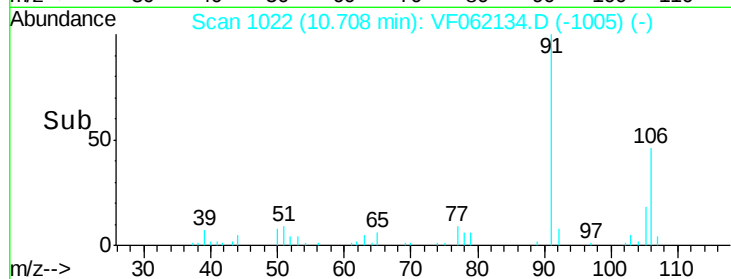
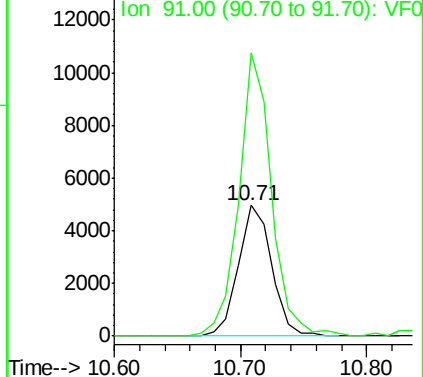
#69
o-Xylene
Concen: 2.742 ug/l
RT: 10.71 min Scan# 1022
Delta R.T. -0.03 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:106 Resp: 9070
Ion Ratio Lower Upper
106 100
91 216.7 102.6 307.8

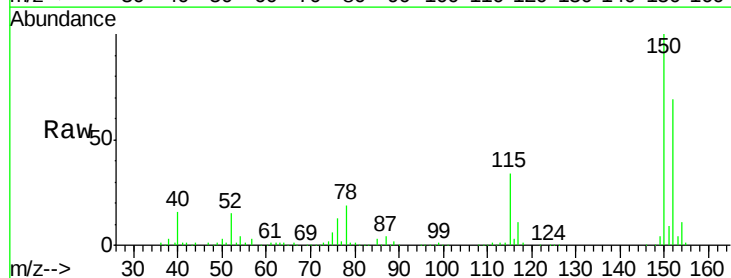


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

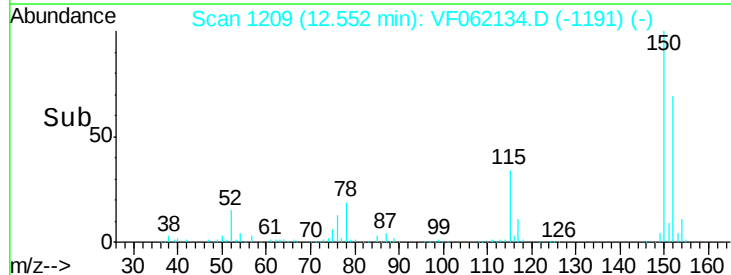
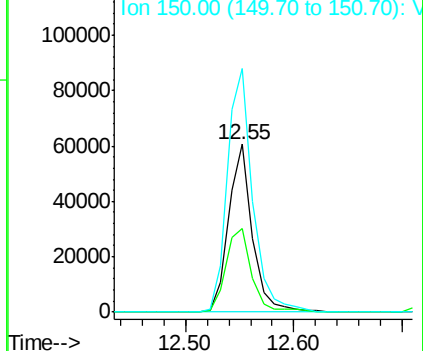


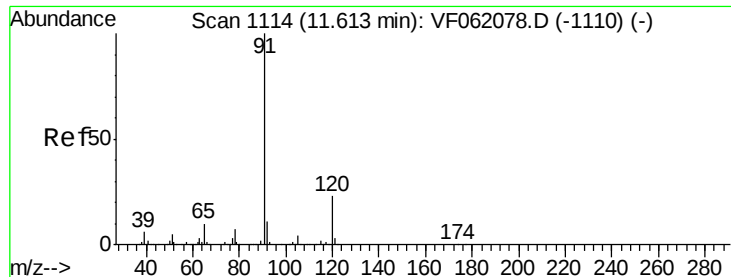
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Tgt Ion:152 Resp: 93210
Ion Ratio Lower Upper
152 100
115 49.9 27.7 83.1
150 144.9 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





#78

n-propylbenzene

Concen: 1.068 ug/l

RT: 11.60 min Scan# 1112

Delta R.T. -0.02 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

Instrument :

MSVOA_F

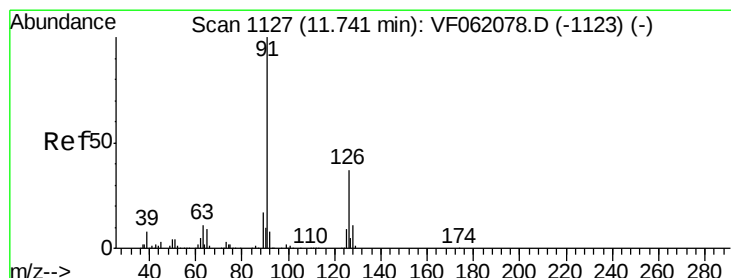
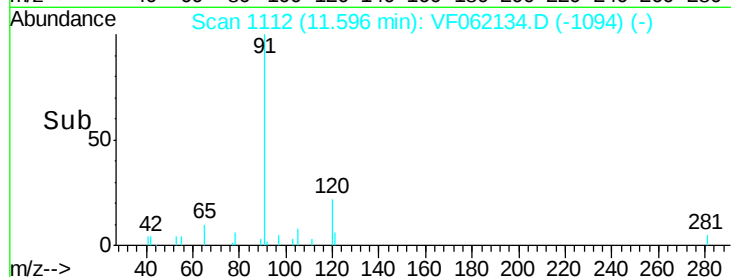
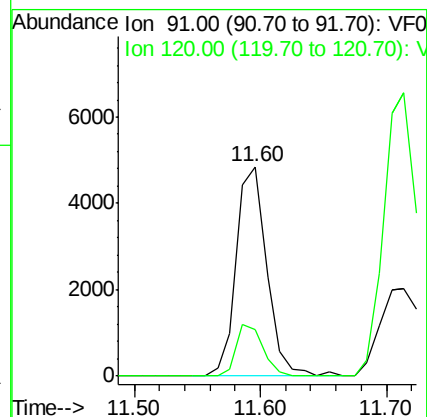
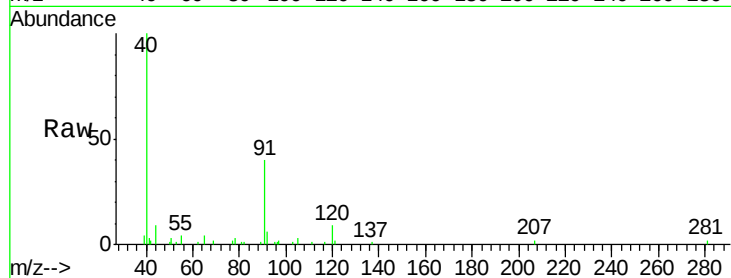
ClientSampleId :

Tot Ion: 91 Resp: 8132

Ion Ratio Lower Upper

91 100

120 22.4 11.3 33.8



#79

2-Chlorotoluene

Concen: 1.099 ug/l

RT: 11.71 min Scan# 1124

Delta R.T. -0.03 min

Lab File: VF062134.D

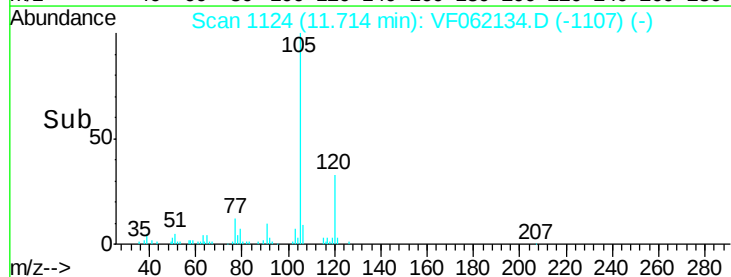
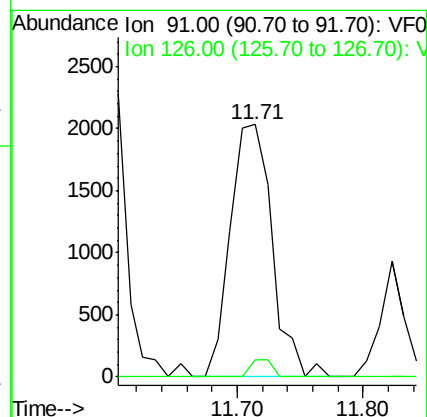
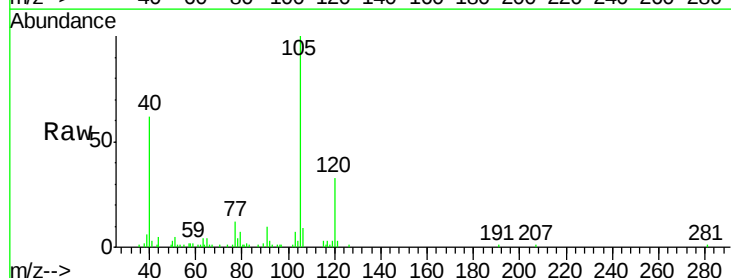
Acq: 25 Mar 2019 16:23

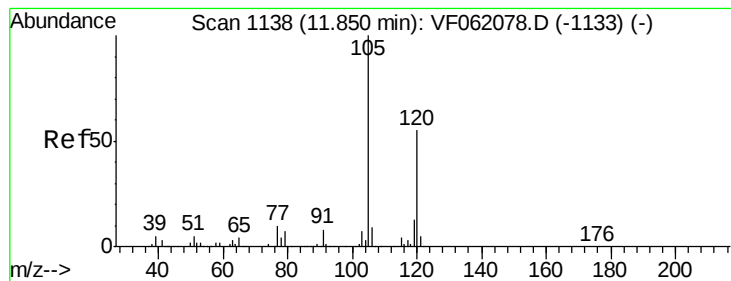
Tgt Ion: 91 Resp: 4651

Ion Ratio Lower Upper

91 100

126 6.6 18.3 54.8#





#80

1,3,5-Trimethylbenzene

Concen: 2.649 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

Instrument :

MSVOA_F

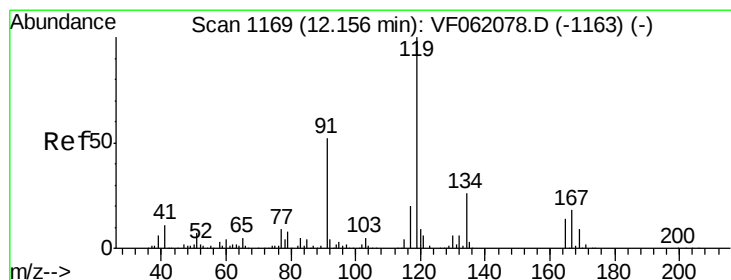
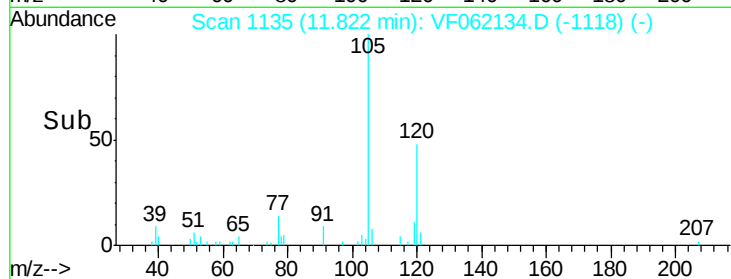
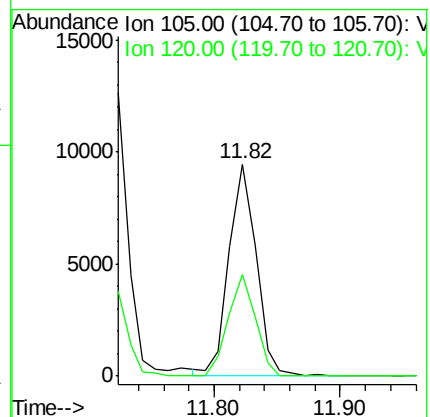
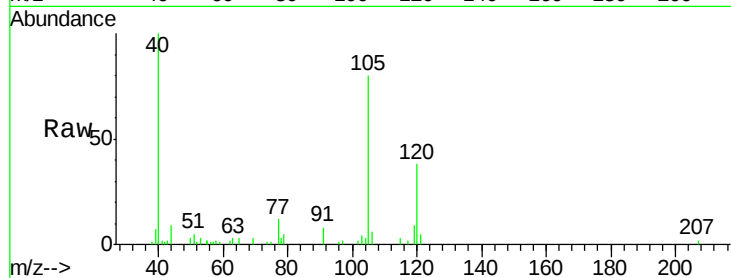
ClientSampled :

Tot Ion:105 Resp: 14289

Ion Ratio Lower Upper

105 100

120 47.7 27.8 83.3



#83

tert-Butylbenzene

Concen: 1.259 ug/l

RT: 12.20 min Scan# 1173

Delta R.T. 0.04 min

Lab File: VF062134.D

Acq: 25 Mar 2019 16:23

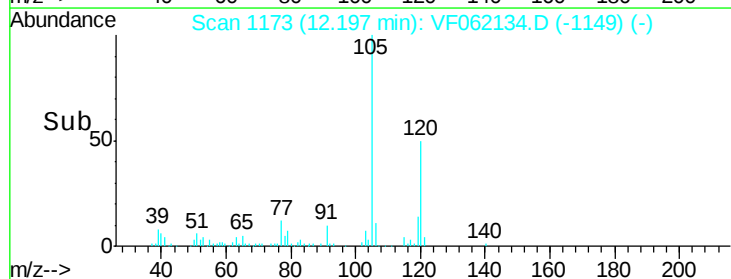
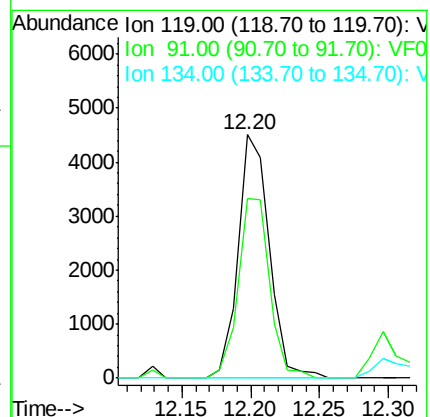
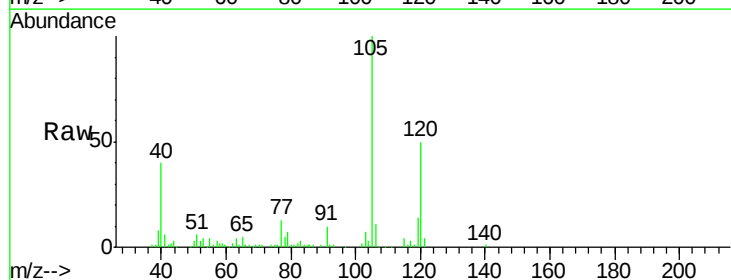
Tgt Ion:119 Resp: 7110

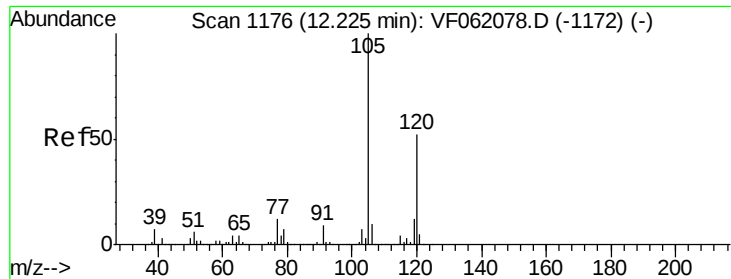
Ion Ratio Lower Upper

119 100

91 73.7 26.1 78.2

134 0.0 12.8 38.4#

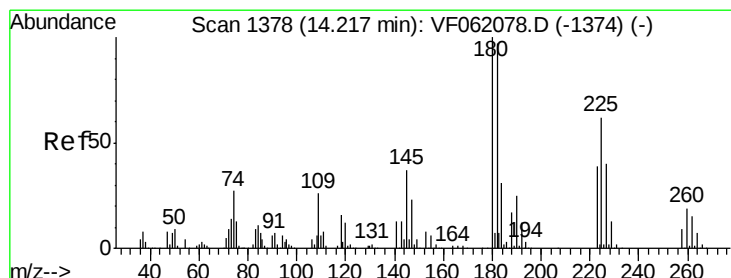
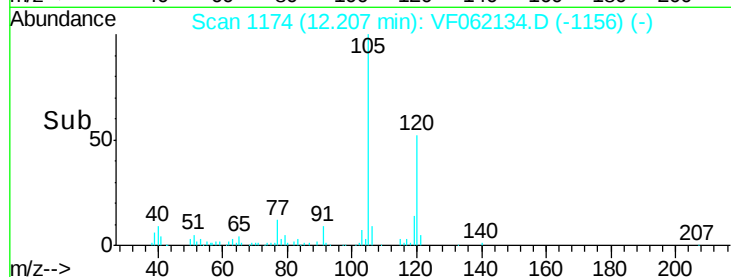
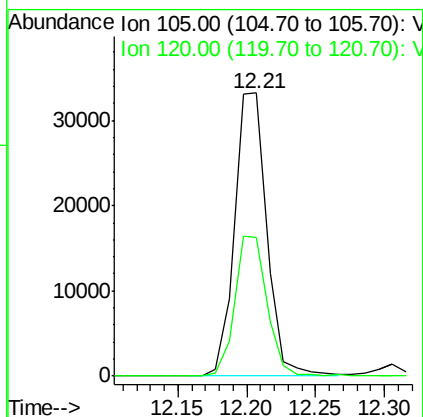
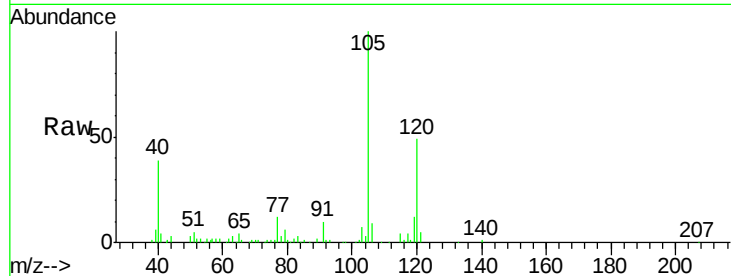




#84
 1,2,4-Trimethylbenzene
 Concen: 10.277 ug/l
 RT: 12.21 min Scan# 1174
 Delta R.T. -0.02 min
 Lab File: VF062134.D
 Acq: 25 Mar 2019 16:23

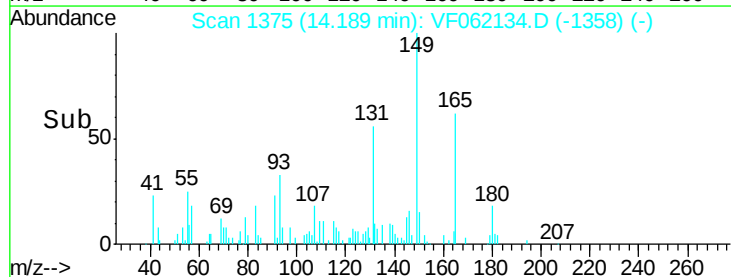
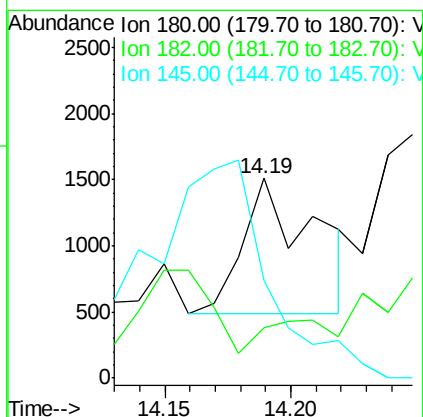
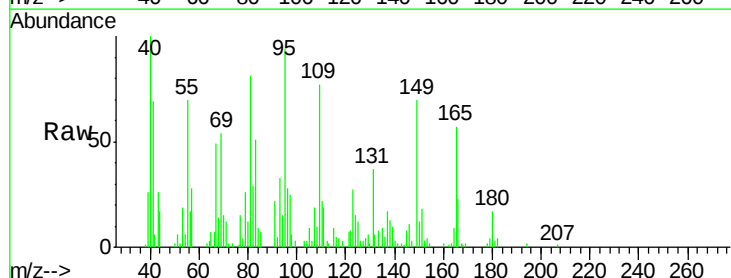
Instrument :
 MSVOA_F
 ClientSampled :

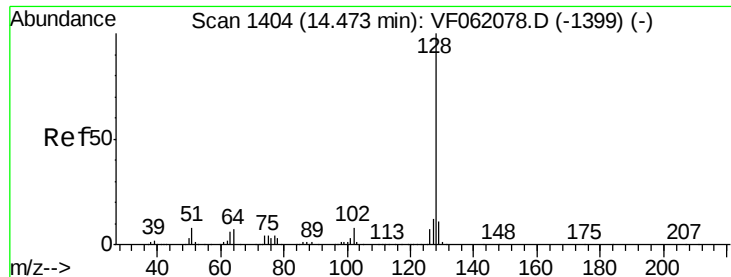
Tot Ion:105 Resp: 54351
 Ion Ratio Lower Upper
 105 100
 120 49.1 26.1 78.2



#93
 1,2,4-Trichlorobenzene
 Concen: 1.037 ug/l
 RT: 14.19 min Scan# 1375
 Delta R.T. -0.03 min
 Lab File: VF062134.D
 Acq: 25 Mar 2019 16:23

Tgt Ion:180 Resp: 2021
 Ion Ratio Lower Upper
 180 100
 182 25.4 48.7 146.1#
 145 49.1 18.3 54.8

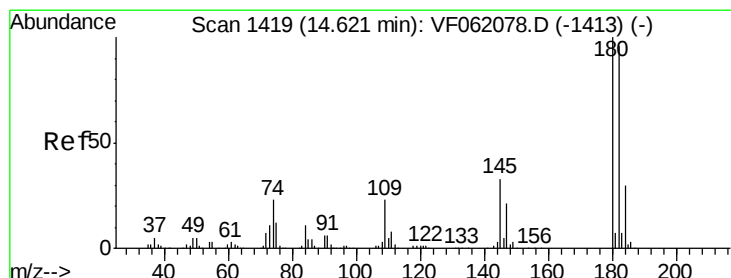
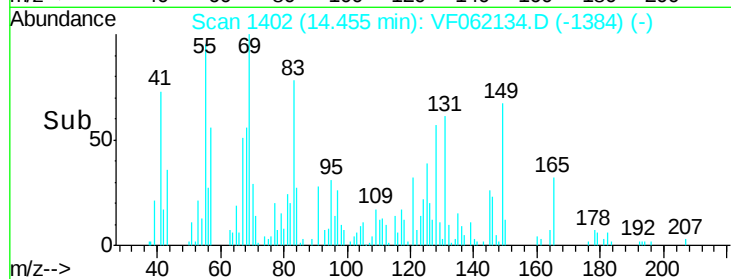
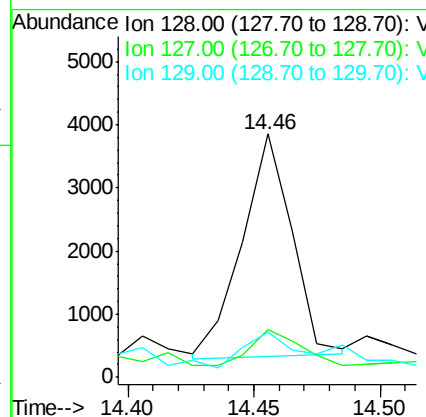
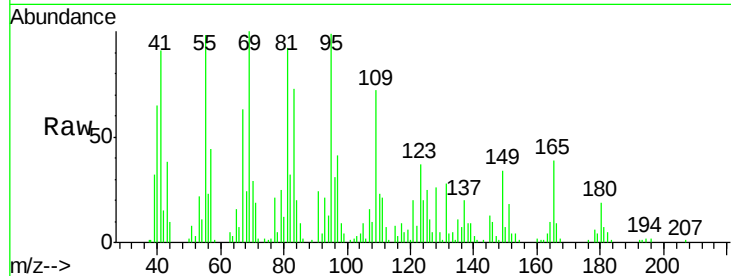




#95
Naphthalene
Concen: 1.421 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Instrument :
MSVOA_F
ClientSampled :

Tot Ion:128 Resp: 4852
Ion Ratio Lower Upper
128 100
127 19.5 9.5 14.3#
129 18.5 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 8.593 ug/l
RT: 14.63 min Scan# 1420
Delta R.T. 0.01 min
Lab File: VF062134.D
Acq: 25 Mar 2019 16:23

Tgt Ion:180 Resp: 15672
Ion Ratio Lower Upper
180 100
182 4.1 47.9 143.7#
145 12.2 16.6 49.7#

