

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF011619\
 Data File : VF061414.D
 Acq On : 16 Jan 2019 16:12
 Operator : VA/AP
 Sample : VF0116SBL01
 Misc : 5.00µ/5mL/MSVOA-F/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 VF0116SBL01

Quant Time: Jan 17 02:54:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 16 04:51:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	228607	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.58	114	381376	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.77	117	353188	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	195345	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	134279	47.58	ug/l	0.00
Spiked Amount			Recovery	=	95.16%	
35) Dibromofluoromethane	4.10	113	159335	52.95	ug/l	0.00
Spiked Amount			Recovery	=	105.90%	
50) Toluene-d8	7.55	98	434874	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
62) 4-Bromofluorobenzene	11.40	95	207894	53.97	ug/l	0.00
Spiked Amount			Recovery	=	107.94%	

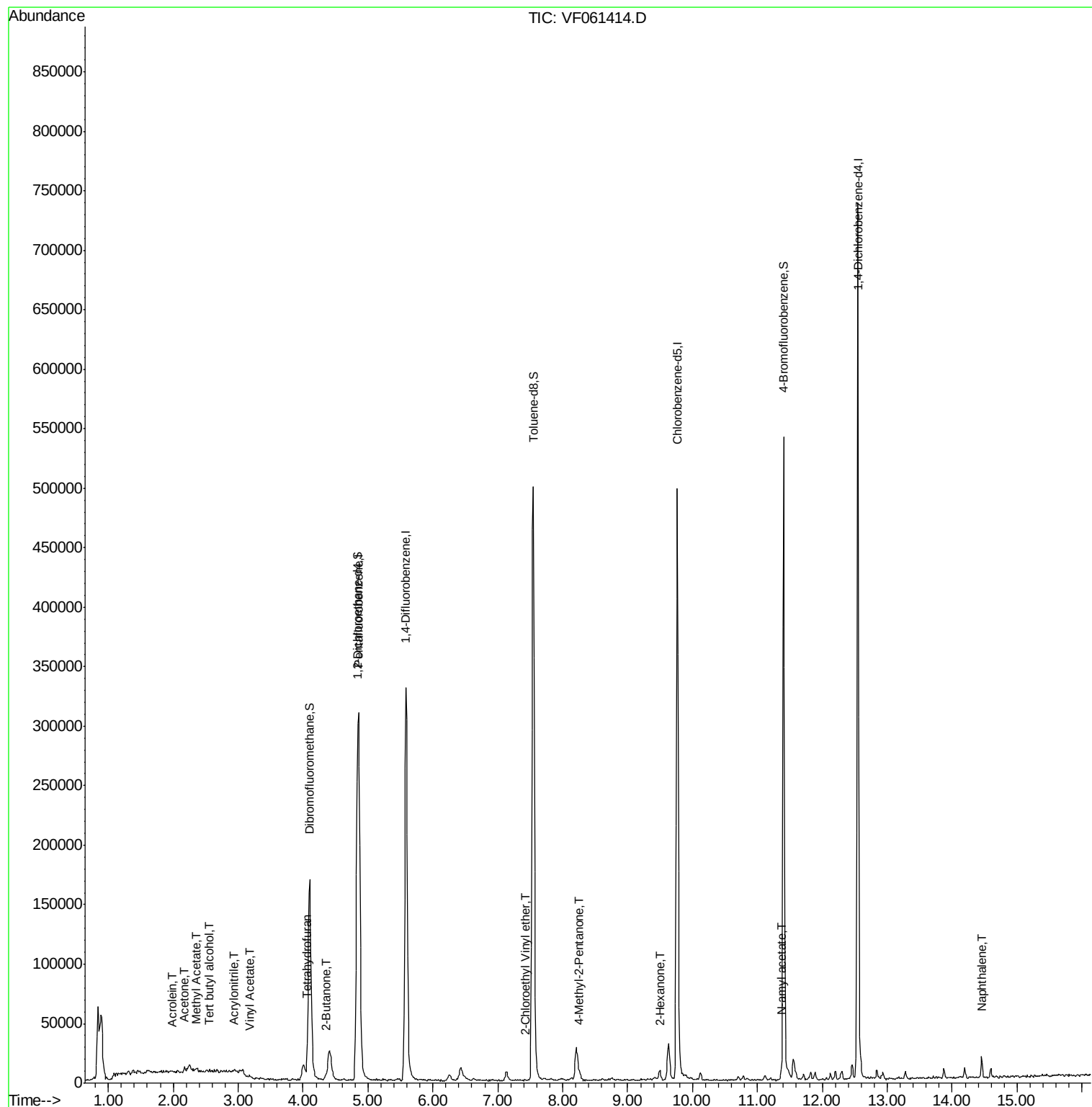
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.55	59	454	3.800	ug/l #	64
13) Acrolein	1.99	56	522	15.200	ug/l	89
14) Allyl chloride	2.10	41	1743	Below Cal	#	55
15) Acrylonitrile	2.93	53	1503	4.911	ug/l	91
16) Acetone	2.17	43	634	1.120	ug/l	97
18) Methyl Acetate	2.36	43	3507	3.123	ug/l #	61
20) Methylene Chloride	2.17	84	1654	Below Cal		89
23) Vinyl Acetate	3.18	43	2687	4.027	ug/l #	78
25) 2-Butanone	4.34	43	2838	3.014	ug/l	92
29) Tetrahydrofuran	4.06	42	826	2.037	ug/l	98
51) 4-Methyl-2-Pentanone	8.26	43	6257	3.837	ug/l	95
58) 2-Chloroethyl Vinyl ether	7.41	63	66	27.779	ug/l #	47
59) 2-Hexanone	9.49	43	7480	6.577	ug/l	78
74) N-amyl acetate	11.36	43	5693	1.515	ug/l #	88
95) Naphthalene	14.45	128	11362	1.360	ug/l	98

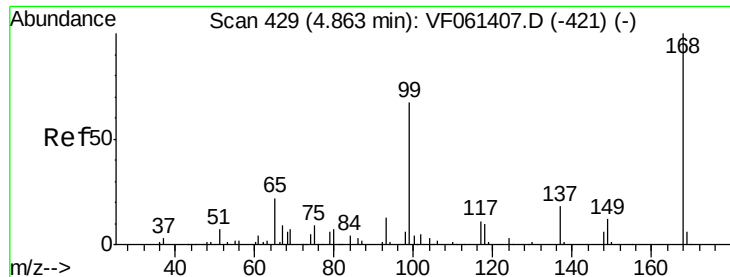
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

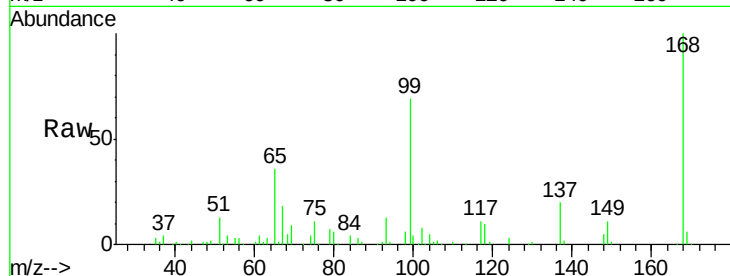
VF0116SBL01

Tot Ion:168 Resp: 228607

Ion Ratio Lower Upper

168 100

99 69.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.85

80000

60000

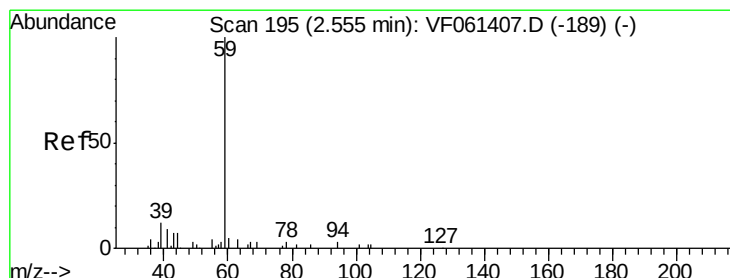
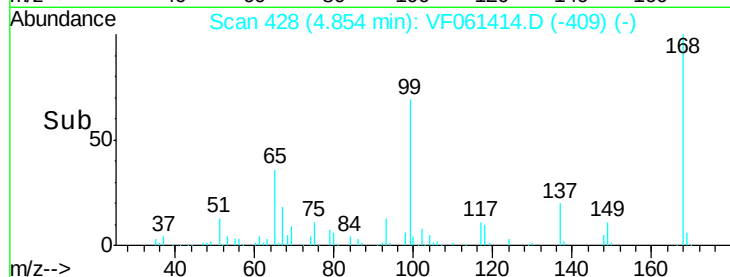
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#11

Tert butyl alcohol

Concen: 3.800 ug/l

RT: 2.55 min Scan# 194

Delta R.T. -0.01 min

Lab File: VF061414.D

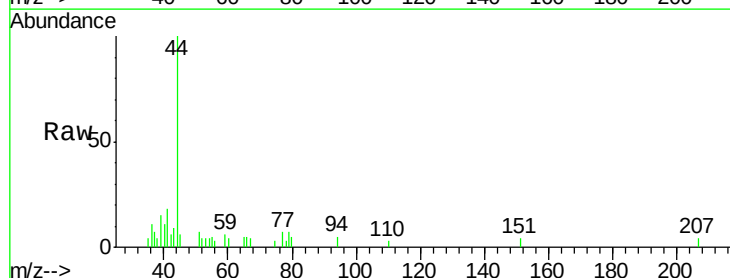
Acq: 16 Jan 2019 16:12

Tgt Ion: 59 Resp: 454

Ion Ratio Lower Upper

59 100

57 0.0 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.55

300

250

200

150

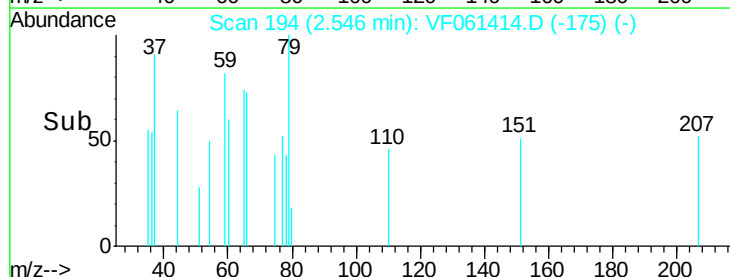
100

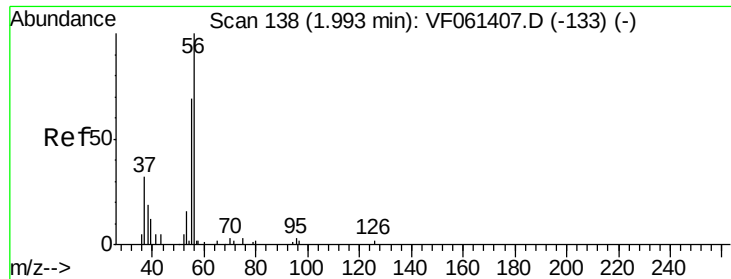
50

0

Time-->

2.50 2.55 2.60





#13

Acrolein

Concen: 15.200 ug/l

RT: 1.99 min Scan# 138

Delta R.T. 0.00 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

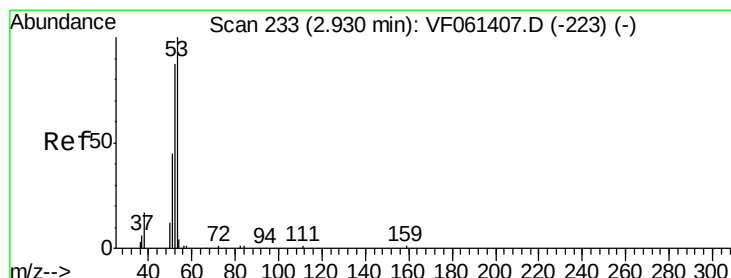
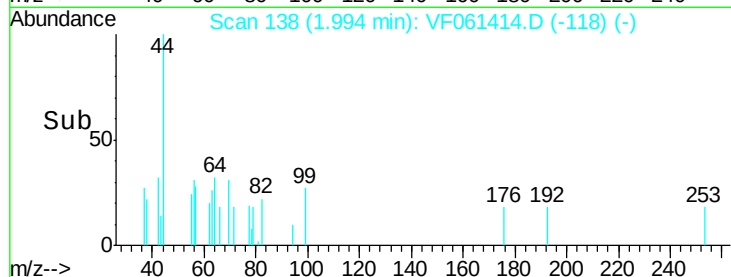
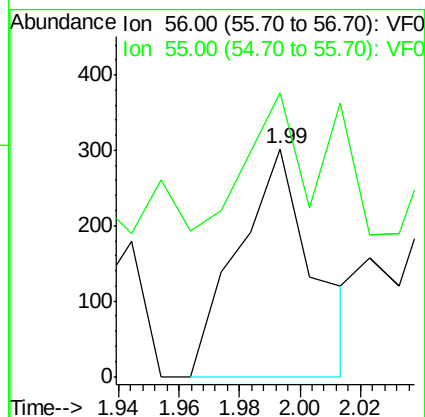
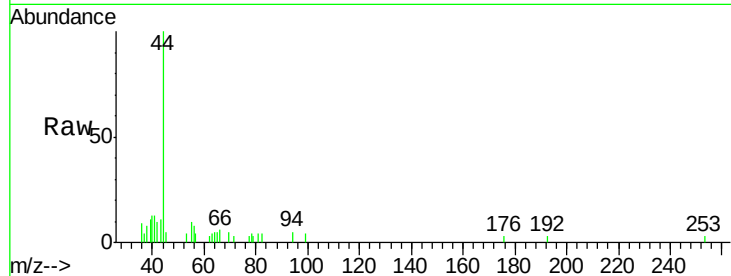
VF0116SBL01

Tot Ion: 56 Resp: 522

Ion Ratio Lower Upper

56 100

55 81.2 57.5 86.3



#15

Acrylonitrile

Concen: 4.911 ug/l

RT: 2.93 min Scan# 233

Delta R.T. 0.00 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

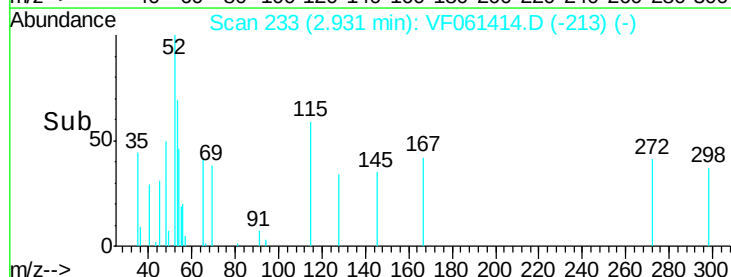
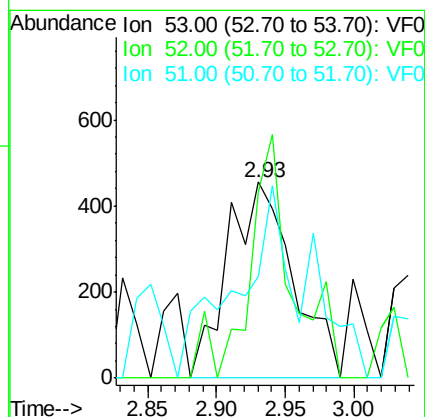
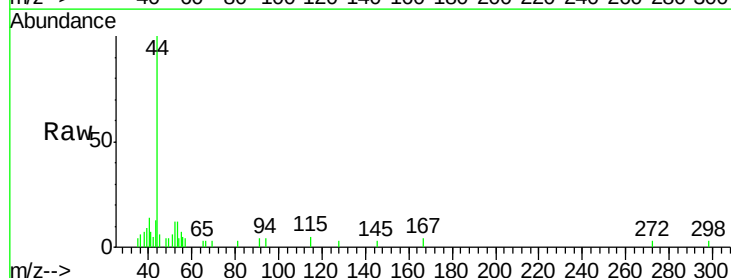
Tgt Ion: 53 Resp: 1503

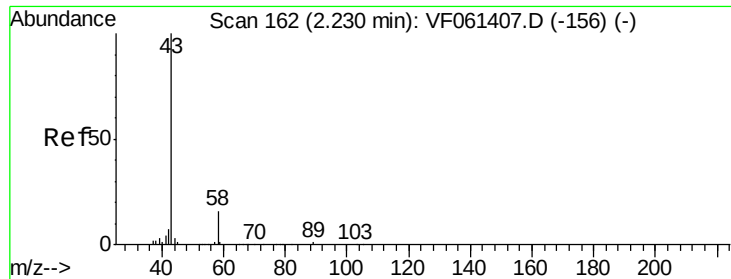
Ion Ratio Lower Upper

53 100

52 95.2 69.6 104.4

51 51.9 36.8 55.2

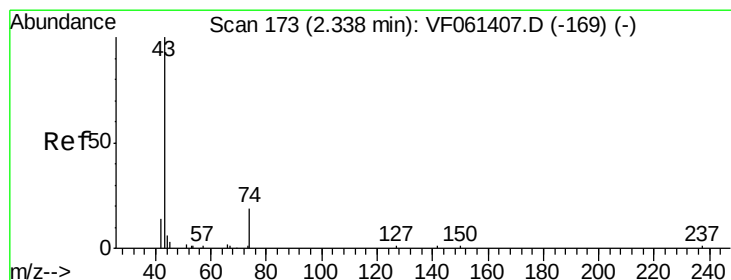
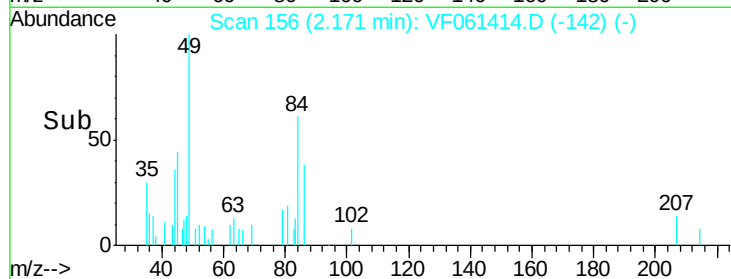
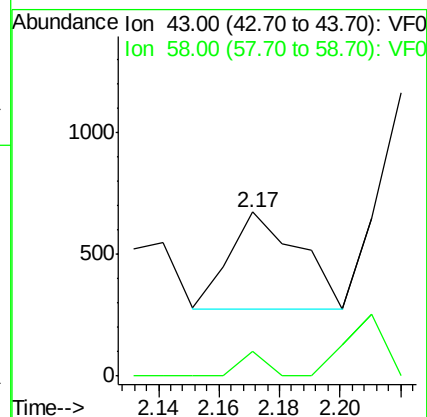
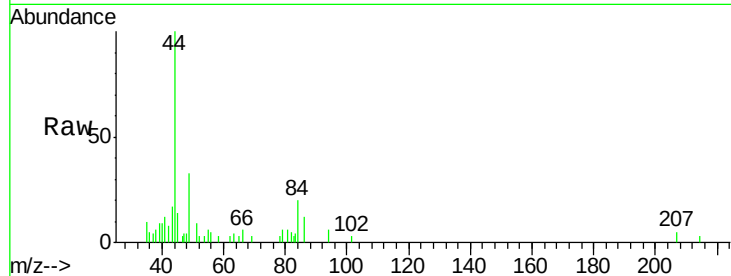




#16
Acetone
Concen: 1.120 ug/l
RT: 2.17 min Scan# 156
Delta R.T. -0.06 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

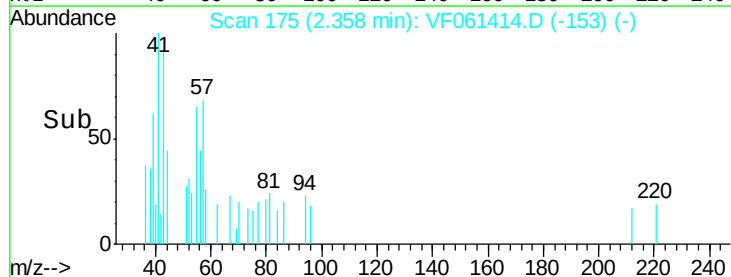
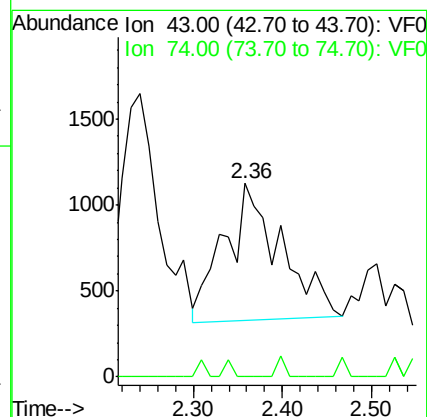
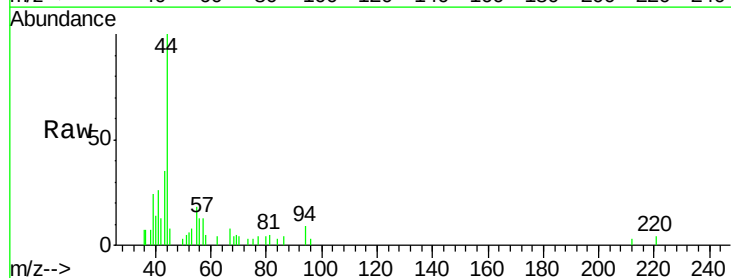
Instrument :
MSVOA_F
ClientSampleId :
VF0116SBL01

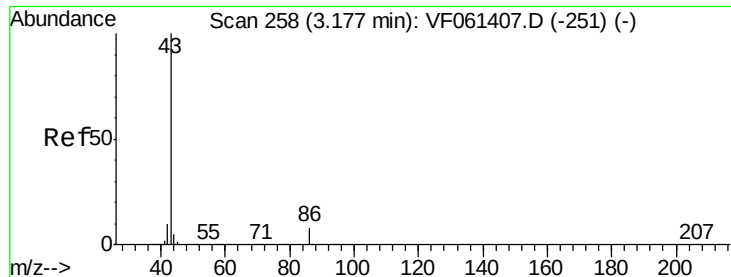
Tot Ion: 43 Resp: 634
Ion Ratio Lower Upper
43 100
58 15.5 13.3 19.9



#18
Methyl Acetate
Concen: 3.123 ug/l
RT: 2.36 min Scan# 175
Delta R.T. 0.02 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

Tgt Ion: 43 Resp: 3507
Ion Ratio Lower Upper
43 100
74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 4.027 ug/l

RT: 3.18 min Scan# 258

Delta R.T. 0.00 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

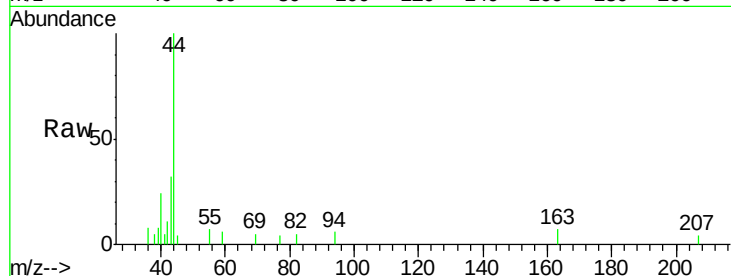
VF0116SBL01

Tot Ion: 43 Resp: 2687

Ion Ratio Lower Upper

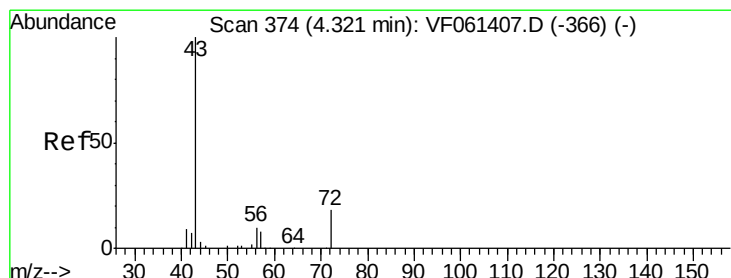
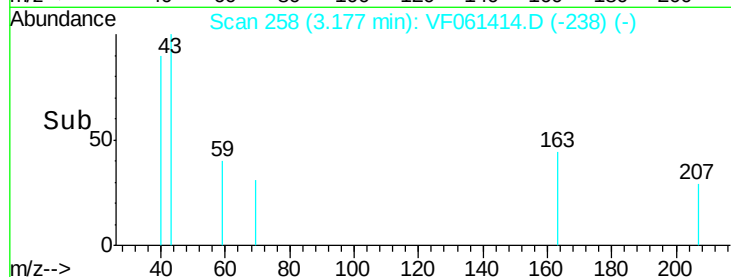
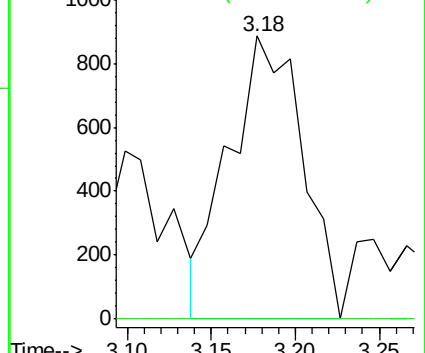
43 100

86 0.0 6.2 9.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 86.00 (85.70 to 86.70): VF0



#25

2-Butanone

Concen: 3.014 ug/l

RT: 4.34 min Scan# 376

Delta R.T. 0.02 min

Lab File: VF061414.D

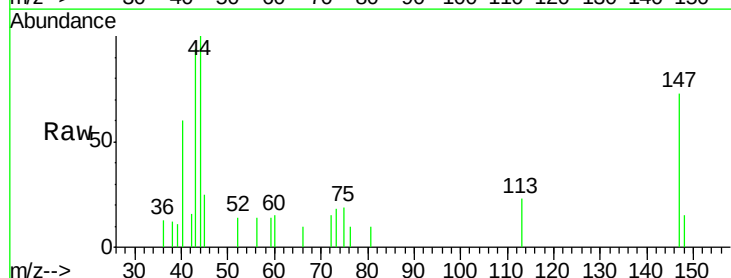
Acq: 16 Jan 2019 16:12

Tgt Ion: 43 Resp: 2838

Ion Ratio Lower Upper

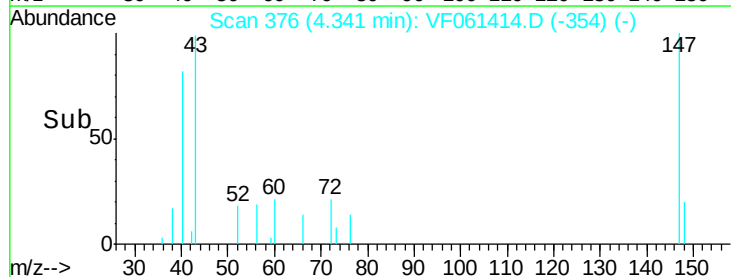
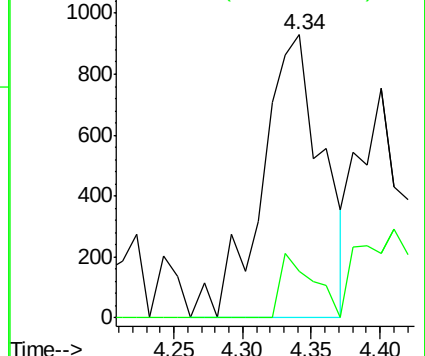
43 100

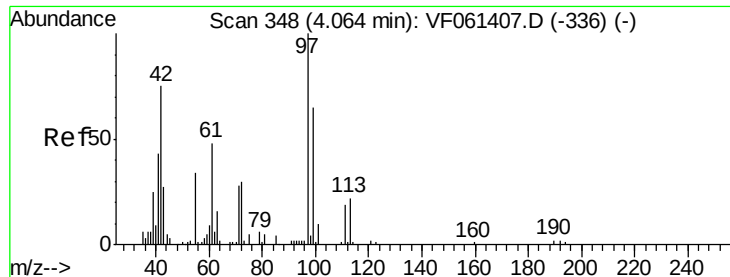
72 16.3 15.8 23.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.037 ug/l

RT: 4.06 min Scan# 347

Delta R.T. -0.01 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

VF0116SBL01

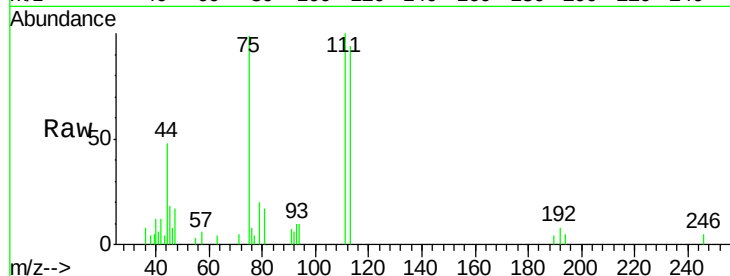
Tot Ion: 42 Resp: 826

Ion Ratio Lower Upper

42 100

72 34.1 28.9 43.3

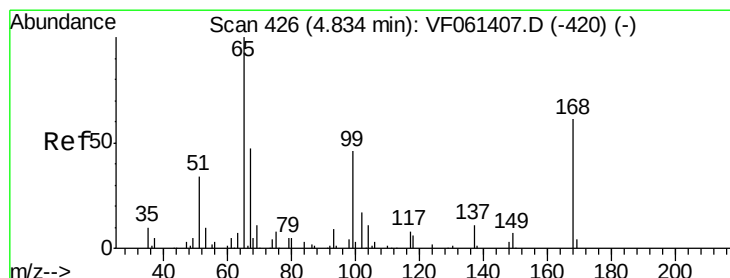
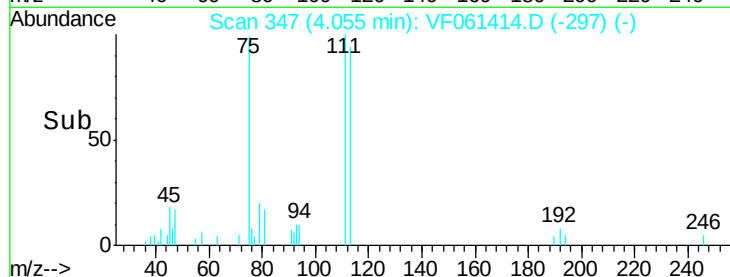
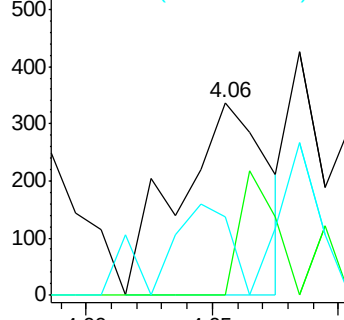
71 36.4 29.6 44.4



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: 47.575 ug/l

RT: 4.83 min Scan# 426

Delta R.T. 0.00 min

Lab File: VF061414.D

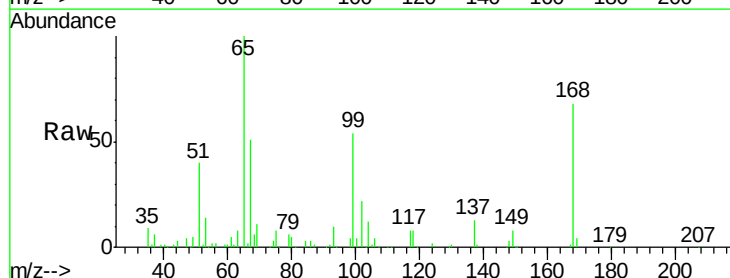
Acq: 16 Jan 2019 16:12

Tgt Ion: 65 Resp: 134279

Ion Ratio Lower Upper

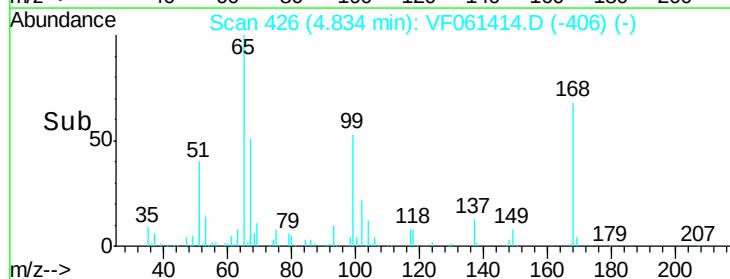
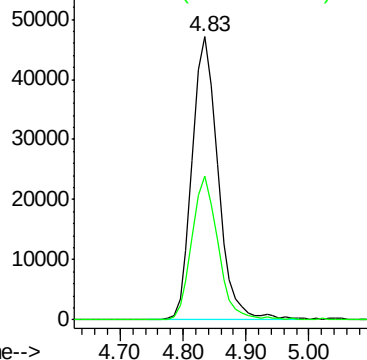
65 100

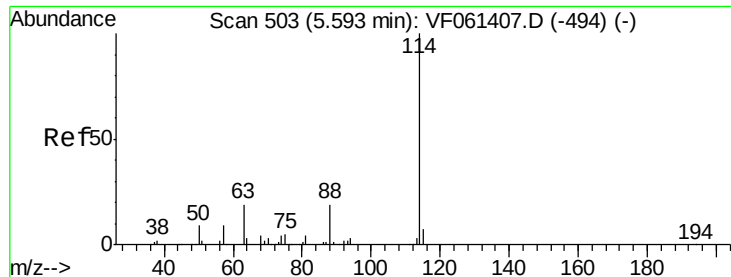
67 51.0 0.0 99.8



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: 5.58 min Scan# 502

Delta R.T. -0.01 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

VF0116SBL01

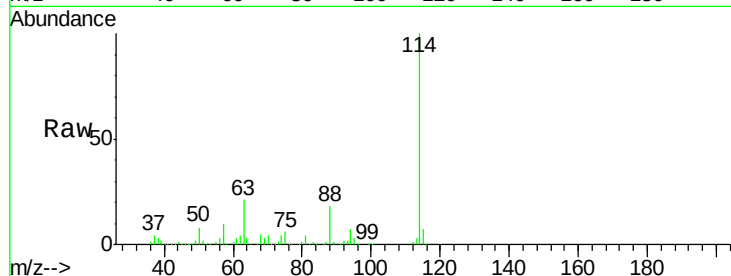
Tot Ion:114 Resp: 381376

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

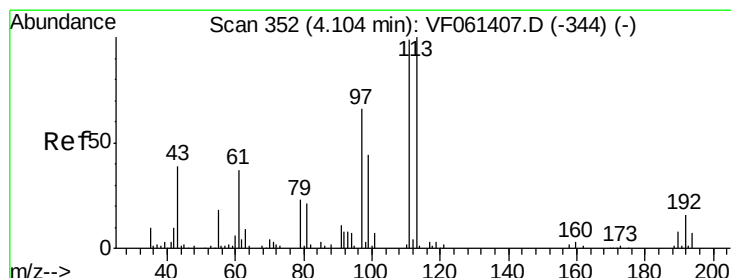
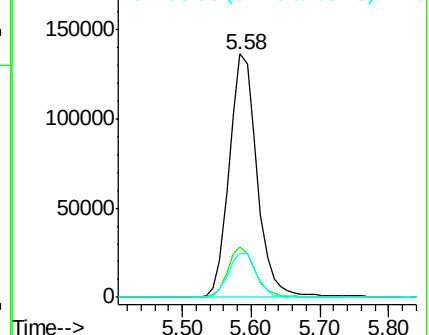
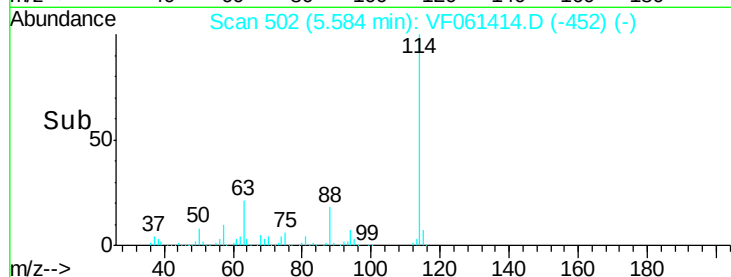
88 18.3 0.0 37.4



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: 52.946 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.00 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

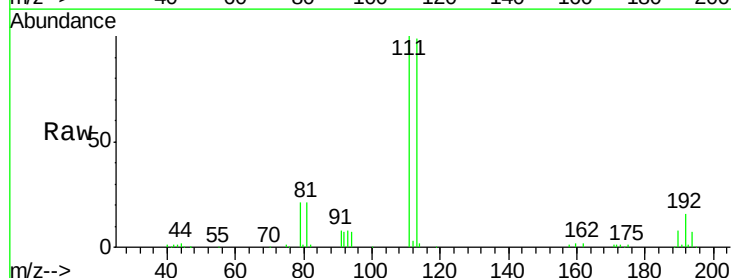
Tgt Ion:113 Resp: 159335

Ion Ratio Lower Upper

113 100

111 100.9 79.4 119.0

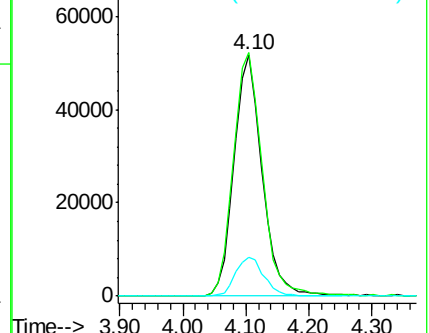
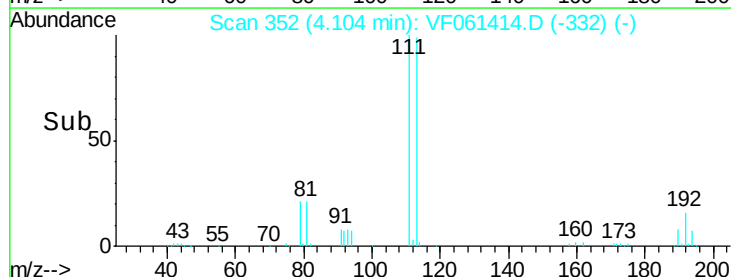
192 16.2 12.4 18.6

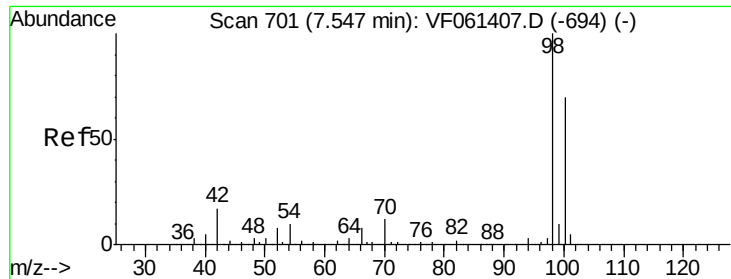


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

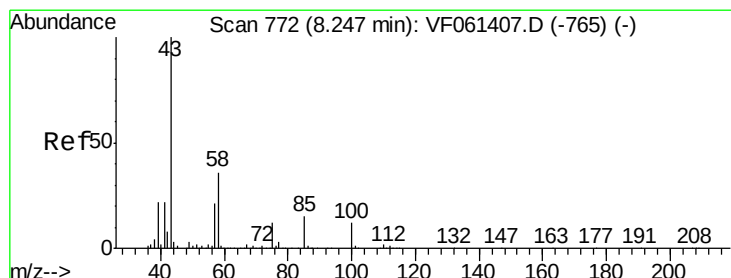
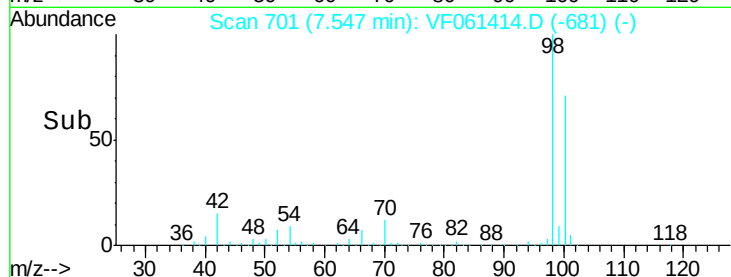
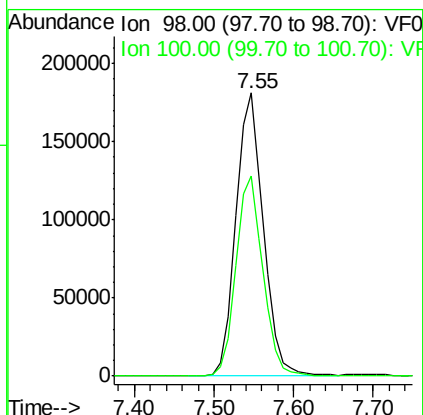
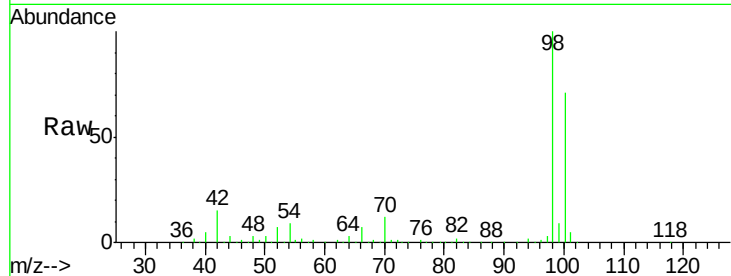




#50
Toluene-d8
Concen: 52.743 ug/l
RT: 7.55 min Scan# 701
Delta R.T. 0.00 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

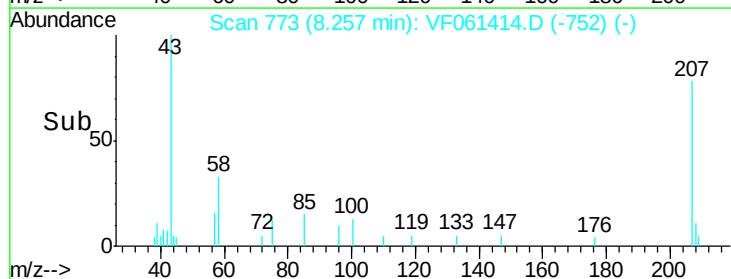
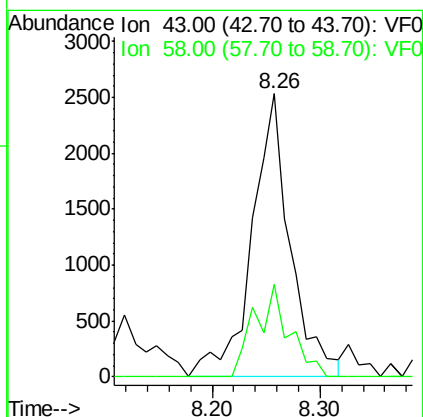
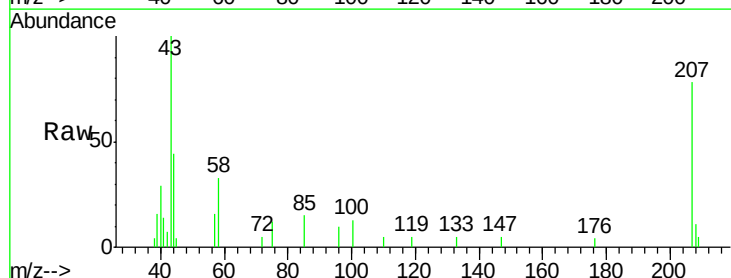
Instrument :
MSVOA_F
ClientSampleId :
VF0116SBL01

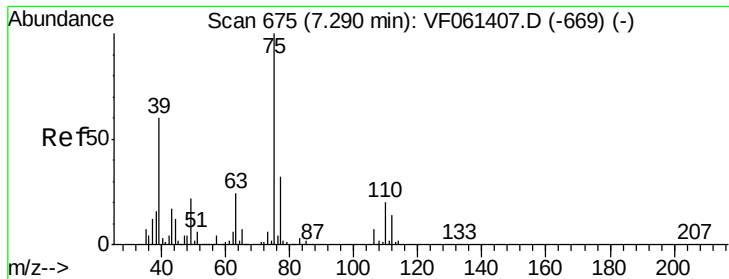
Tot Ion: 98 Resp: 434874
Ion Ratio Lower Upper
98 100
100 70.6 55.6 83.4



#51
4-Methyl-2-Pentanone
Concen: 3.837 ug/l
RT: 8.26 min Scan# 773
Delta R.T. 0.01 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

Tgt Ion: 43 Resp: 6257
Ion Ratio Lower Upper
43 100
58 32.8 28.8 43.2





#58

2-Chloroethyl Vinyl ether

Concen: 27.779 ug/l

RT: 7.41 min Scan# 687

Delta R.T. 0.12 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

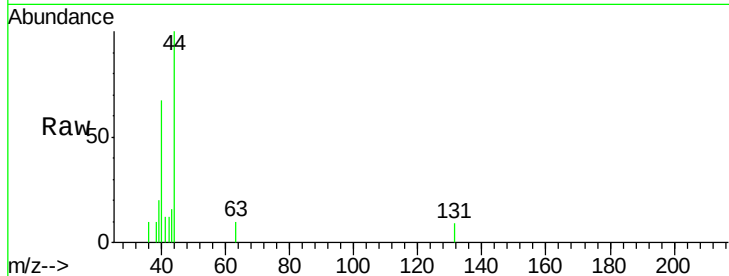
VF0116SBL01

Tot Ion: 63 Resp: 66

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V

7.41

120

100

80

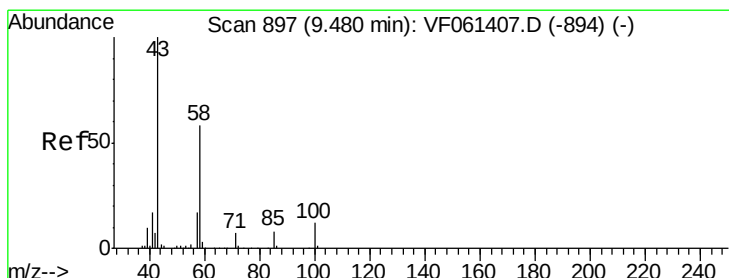
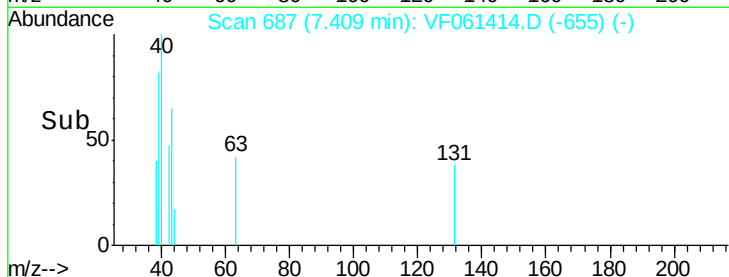
60

40

20

0

Time-->



#59

2-Hexanone

Concen: 6.577 ug/l

RT: 9.49 min Scan# 898

Delta R.T. 0.01 min

Lab File: VF061414.D

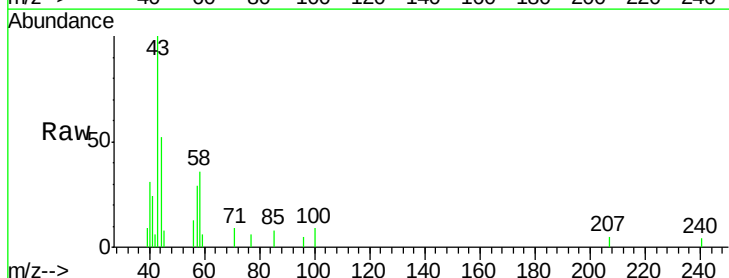
Acq: 16 Jan 2019 16:12

Tgt Ion: 43 Resp: 7480

Ion Ratio Lower Upper

43 100

58 36.5 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

9.49

3000

2500

2000

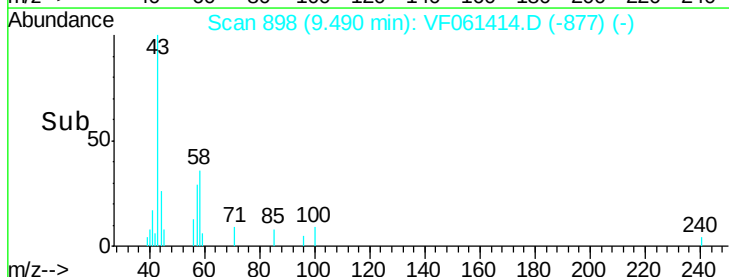
1500

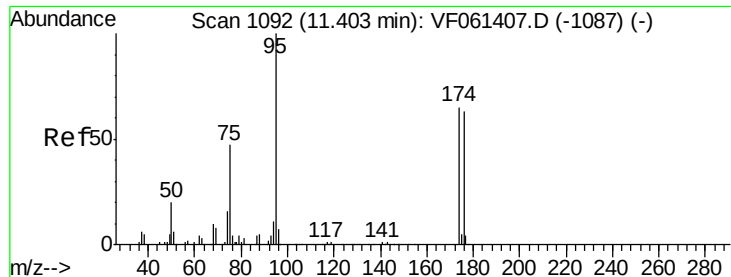
1000

500

0

Time-->

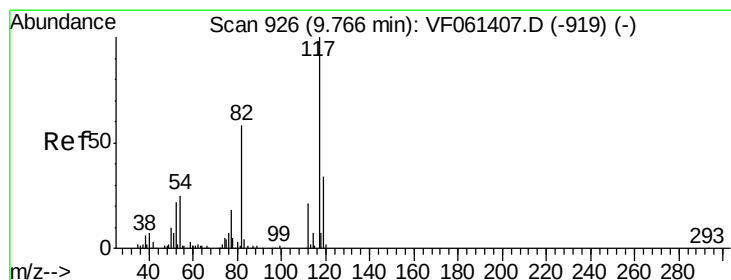
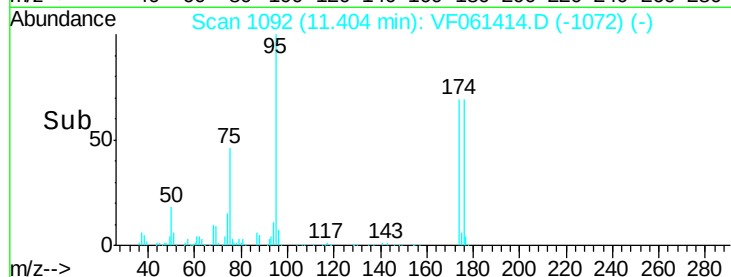
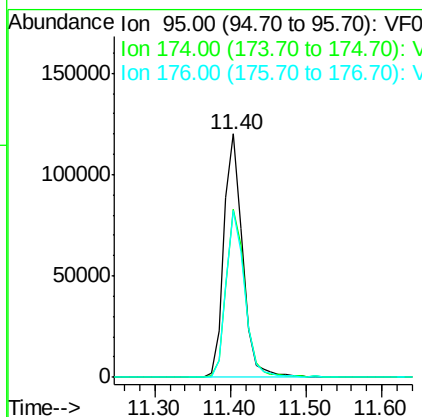
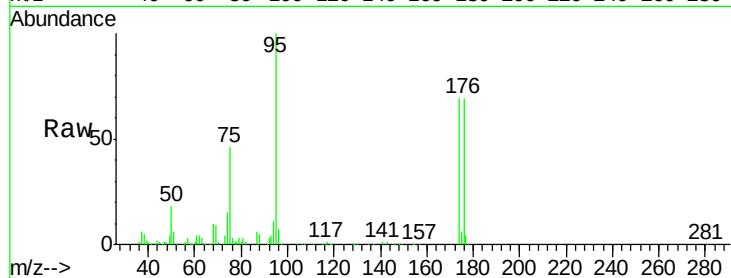




#62
4-Bromofluorobenzene
Concen: 53.965 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. 0.00 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

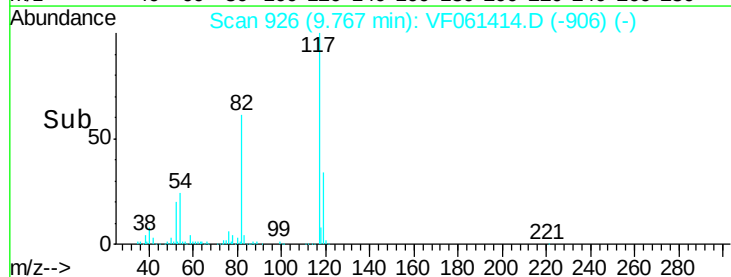
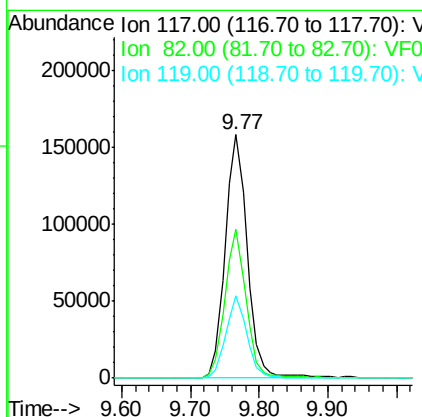
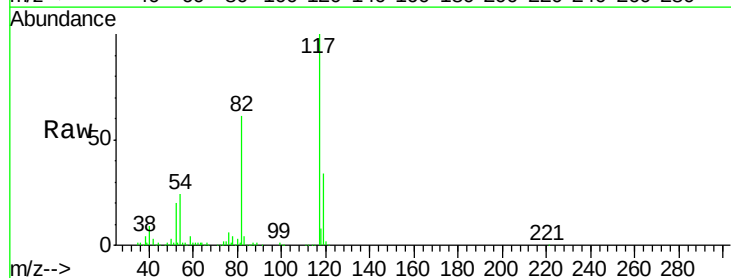
Instrument :
MSVOA_F
ClientSampleId :
VF0116SBL01

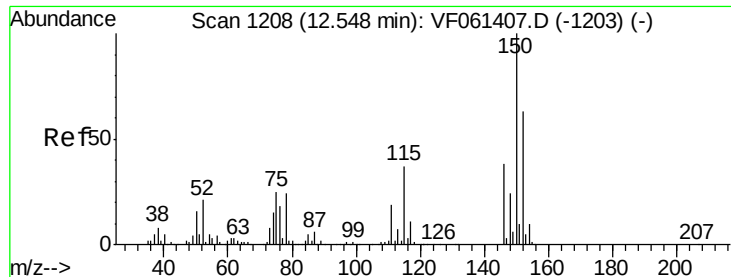
Tot Ion: 95 Resp: 207894
Ion Ratio Lower Upper
95 100
174 68.9 0.0 130.4
176 68.6 0.0 126.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. 0.00 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

Tgt Ion: 117 Resp: 353188
Ion Ratio Lower Upper
117 100
82 61.2 46.4 69.6
119 34.0 27.2 40.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Instrument :

MSVOA_F

ClientSampleId :

VF0116SBL01

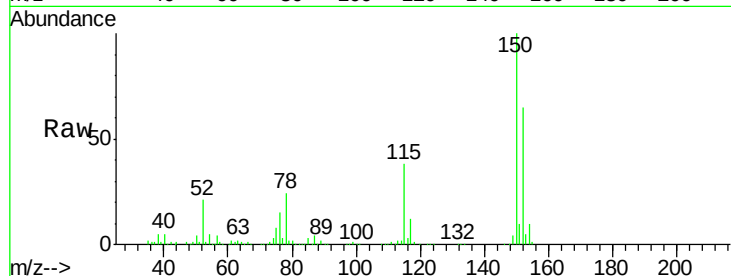
Tot Ion:152 Resp: 195345

Ion Ratio Lower Upper

152 100

115 58.3 30.0 90.0

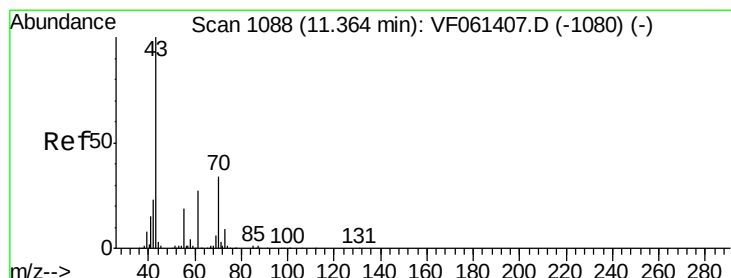
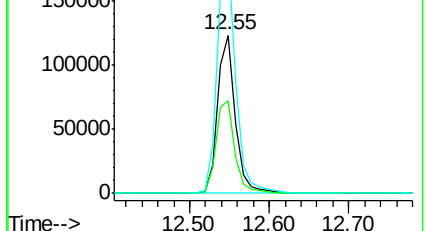
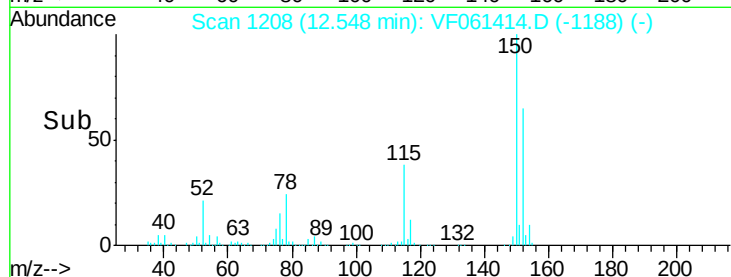
150 154.0 0.0 321.4



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



#74

N-aryl acetate

Concen: 1.515 ug/l

RT: 11.36 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VF061414.D

Acq: 16 Jan 2019 16:12

Tgt Ion: 43 Resp: 5693

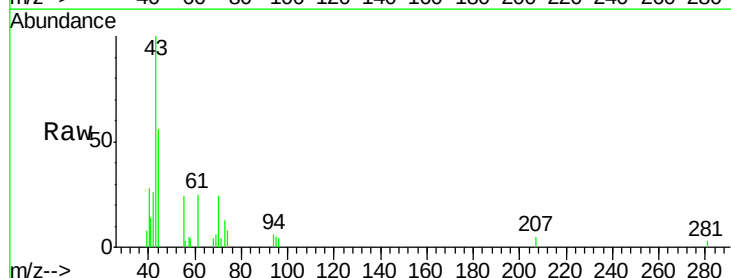
Ion Ratio Lower Upper

43 100

70 24.1 27.6 41.4#

55 24.2 15.4 23.2#

61 24.6 21.8 32.6

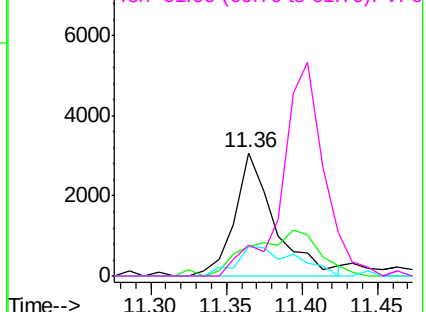
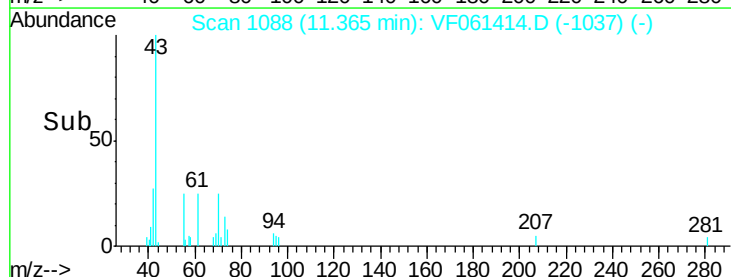


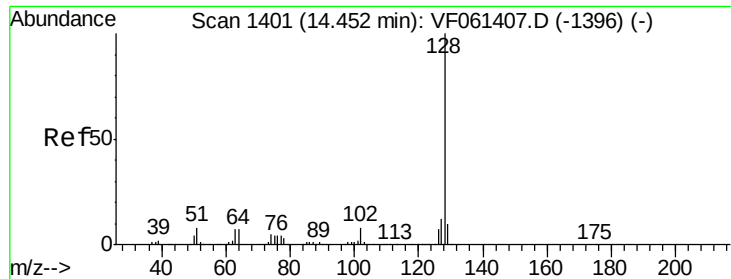
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0

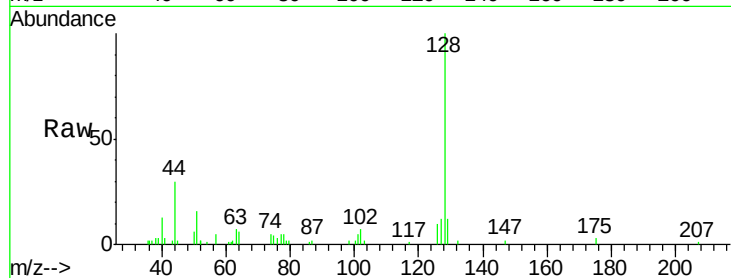




#95
Naphthalene
Concen: 1.360 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061414.D
Acq: 16 Jan 2019 16:12

Instrument :
MSVOA_F
ClientSampleId :
VF0116SBL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	9.5	14.3
129	11.6	8.4	12.6



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

