

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012419\
 Data File : VF061503.D
 Acq On : 24 Jan 2019 16:38
 Operator : VA/AP
 Sample : K1223-10
 Misc : 5.24g/5mL/MSVOA-F/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 TS-V

Quant Time: Jan 25 04:09:13 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	4.91	168	112406	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	5.64	114	199036	50.00	ug/l	0.04
63) Chlorobenzene-d5	9.81	117	107040	50.00	ug/l	0.04
72) 1,4-Dichlorobenzene-d4	12.57	152	27200	50.00	ug/l	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.89	65	96910	69.83	ug/l	0.05
Spiked Amount			Recovery	=	139.66%	
35) Dibromofluoromethane	4.15	113	102675	65.37	ug/l	0.04
Spiked Amount			Recovery	=	130.74%	
50) Toluene-d8	7.59	98	171765	39.92	ug/l	0.04
Spiked Amount			Recovery	=	79.84%	
62) 4-Bromofluorobenzene	11.44	95	47560	23.66	ug/l	0.03
Spiked Amount			Recovery	=	47.32%	

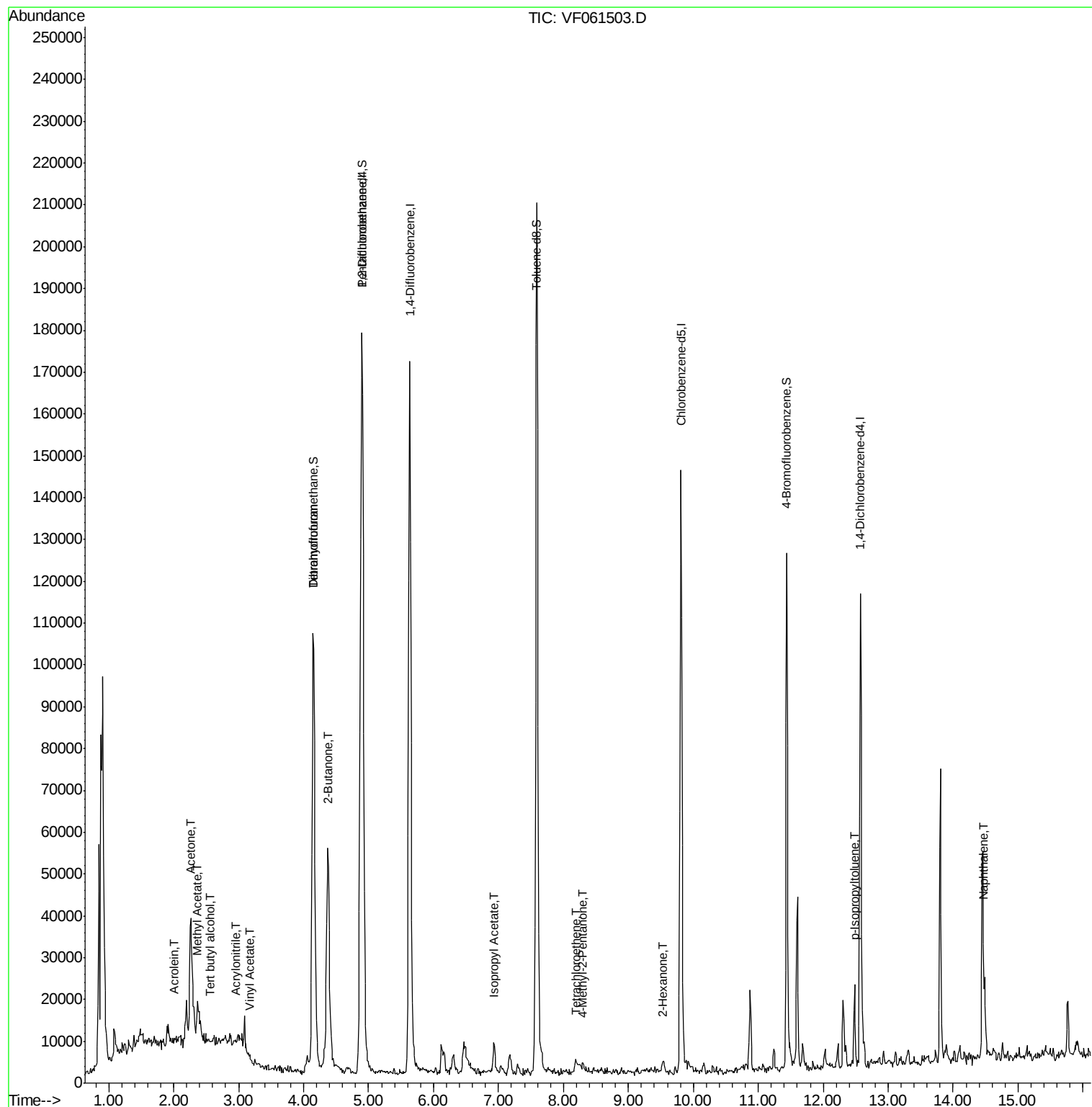
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	65	1.107	ug/l #	64
13) Acrolein	2.02	56	413	18.162	ug/l	96
14) Allyl chloride	2.13	41	247	Below Cal	#	80
15) Acrylonitrile	2.96	53	496	3.296	ug/l #	14
16) Acetone	2.26	43	43630	156.712	ug/l	99
18) Methyl Acetate	2.37	43	15551	28.166	ug/l	98
23) Vinyl Acetate	3.18	43	1071	3.869	ug/l #	78
25) 2-Butanone	4.37	43	114657	247.649	ug/l	97
29) Tetrahydrofuran	4.14	42	1170	5.869	ug/l #	43
43) Isopropyl Acetate	6.93	43	10312	8.907	ug/l #	51
51) 4-Methyl-2-Pentanone	8.30	43	3332	3.915	ug/l	95
59) 2-Hexanone	9.53	43	3493	5.885	ug/l	71
64) Tetrachloroethene	8.19	164	927	1.152	ug/l #	83
86) p-Isopropyltoluene	12.48	119	11659	5.660	ug/l	96
95) Naphthalene	14.48	128	3919	3.369	ug/l #	92

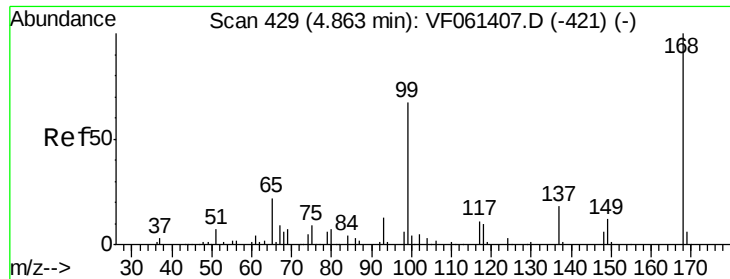
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Jan 16 04:51:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.91 min Scan# 434

Delta R.T. 0.04 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampleId :

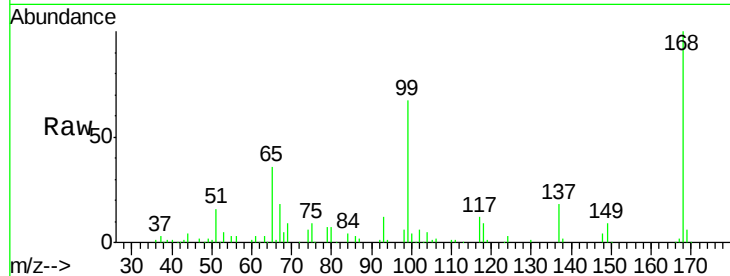
TS-V

Tot Ion:168 Resp: 112406

Ion Ratio Lower Upper

168 100

99 67.0 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0

4.91

40000

30000

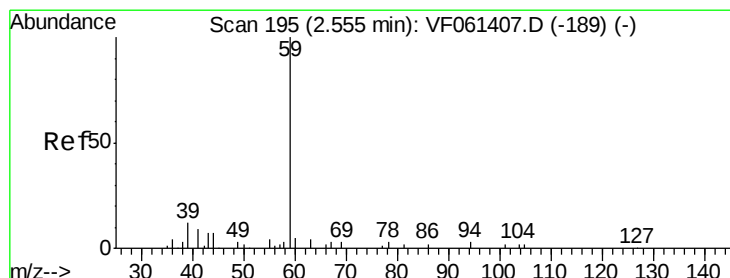
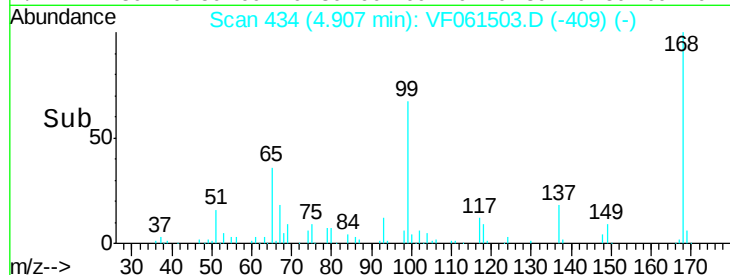
20000

10000

0

Time-->

4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.107 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF061503.D

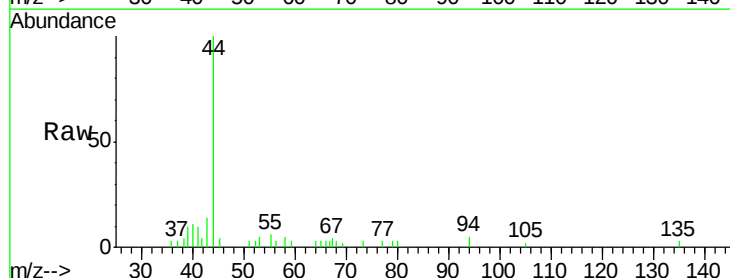
Acq: 24 Jan 2019 16:38

Tgt Ion: 59 Resp: 65

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

150

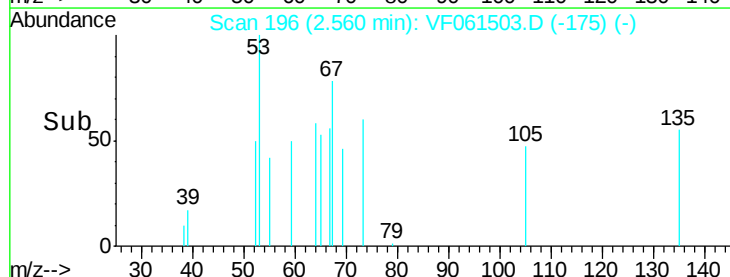
100

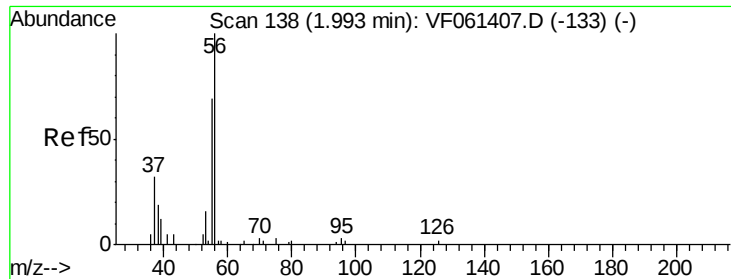
50

0

Time-->

2.54 2.56 2.58





#13

Acrolein

Concen: 18.162 ug/l

RT: 2.02 min Scan# 141

Delta R.T. 0.03 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

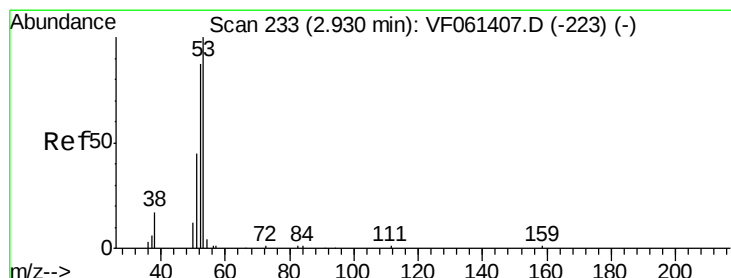
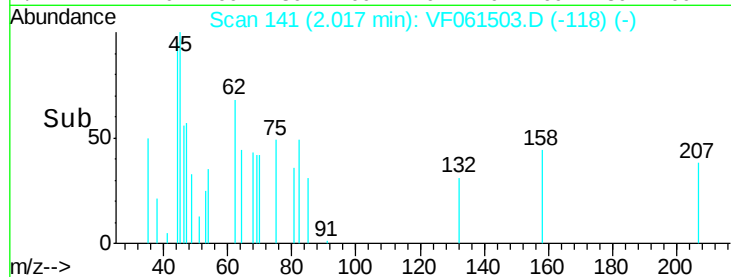
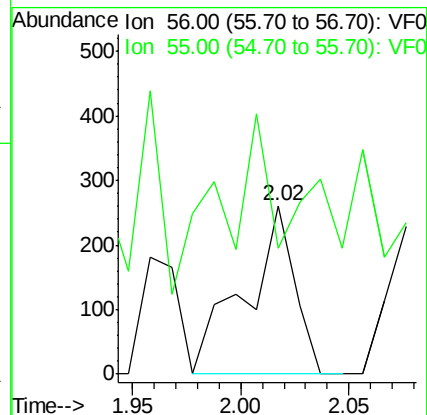
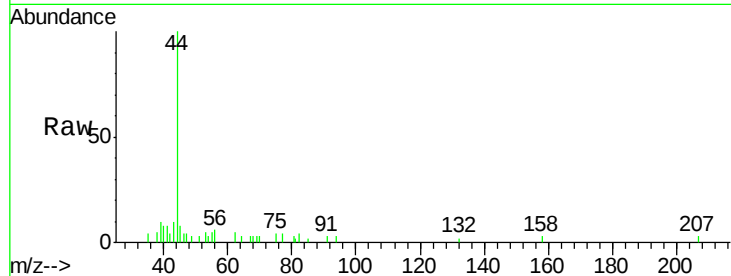
Instrument :
MSVOA_F
ClientSampled :
TS-V

Tot Ion: 56 Resp: 413

Ion Ratio Lower Upper

56 100

55 75.1 57.5 86.3



#15

Acrylonitrile

Concen: 3.296 ug/l

RT: 2.96 min Scan# 237

Delta R.T. 0.03 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

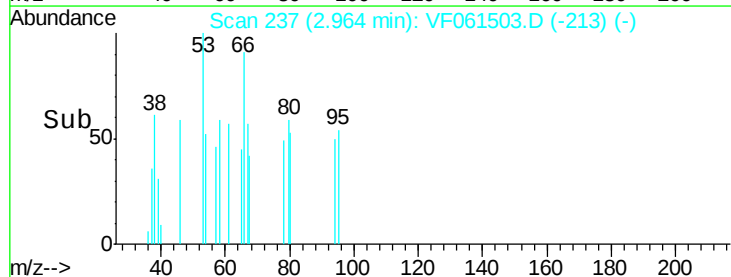
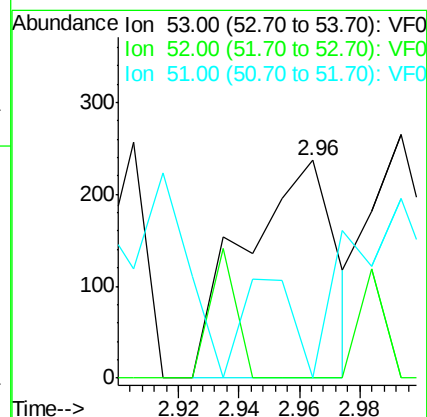
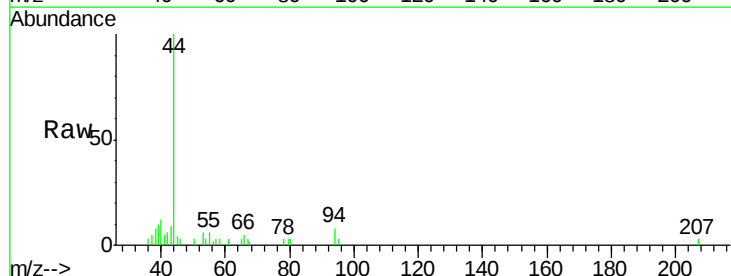
Tgt Ion: 53 Resp: 496

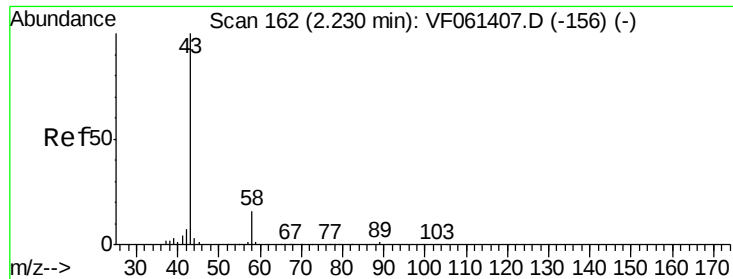
Ion Ratio Lower Upper

53 100

52 0.0 69.6 104.4#

51 0.0 36.8 55.2#

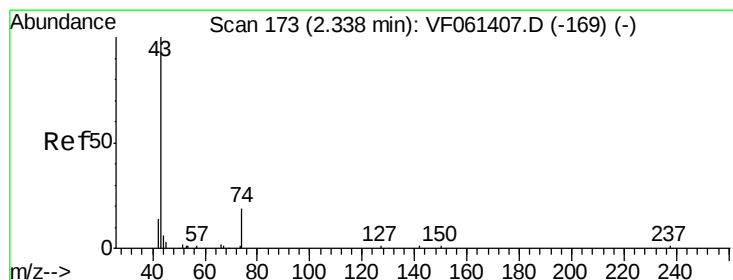
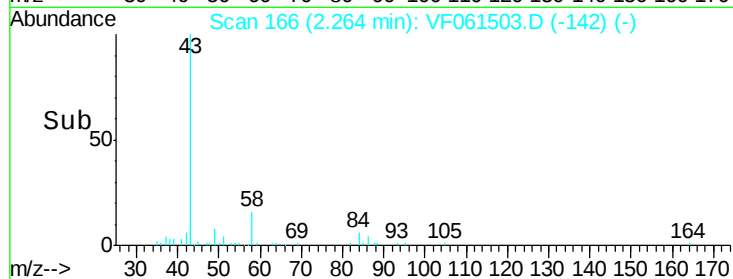
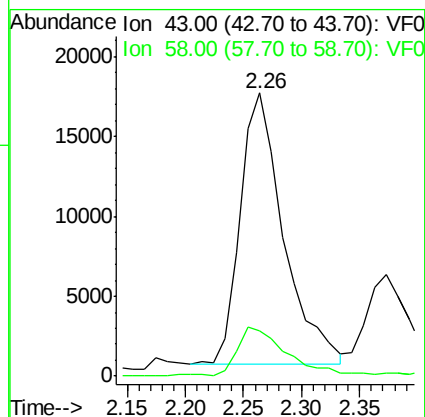
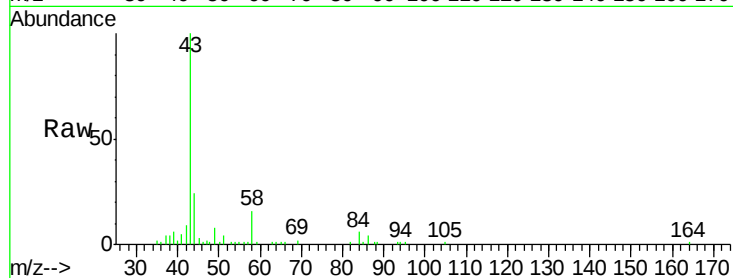




#16
Acetone
Concen: 156.712 ug/l
RT: 2.26 min Scan# 166
Delta R.T. 0.03 min
Lab File: VF061503.D
Acq: 24 Jan 2019 16:38

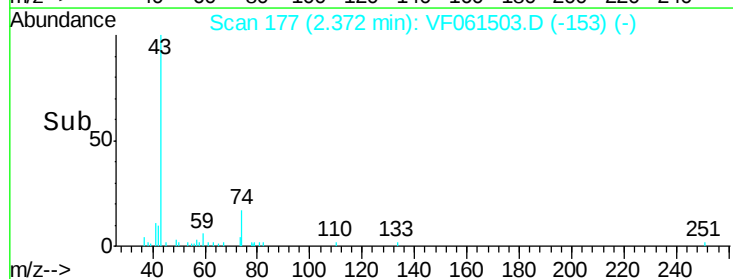
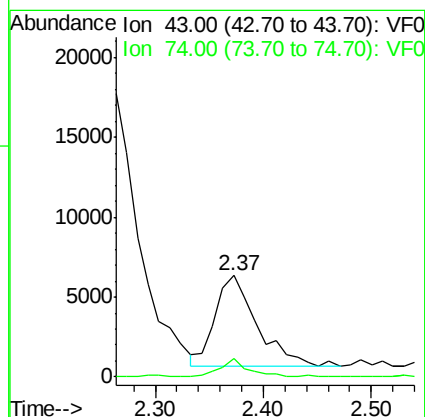
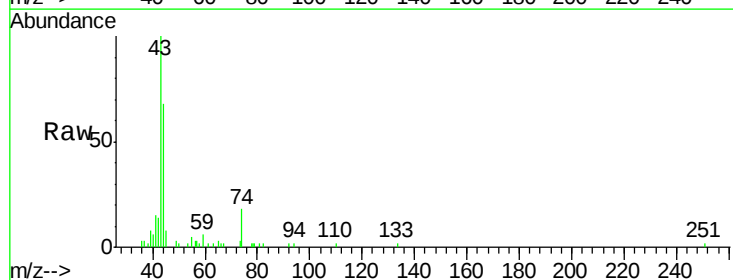
Instrument :
MSVOA_F
ClientSampleId :
TS-V

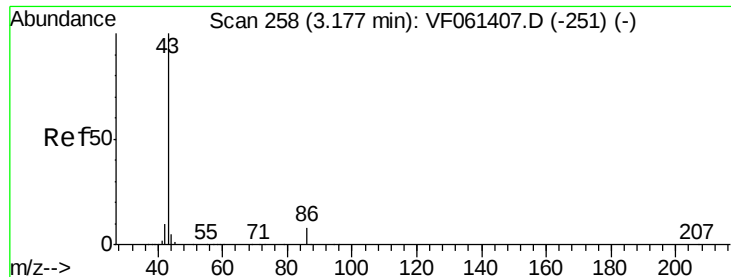
Tot Ion: 43 Resp: 43630
Ion Ratio Lower Upper
43 100
58 16.2 13.3 19.9



#18
Methyl Acetate
Concen: 28.166 ug/l
RT: 2.37 min Scan# 177
Delta R.T. 0.03 min
Lab File: VF061503.D
Acq: 24 Jan 2019 16:38

Tgt Ion: 43 Resp: 15551
Ion Ratio Lower Upper
43 100
74 17.7 13.4 20.0





#23

Vinyl Acetate

Concen: 3.869 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampled :

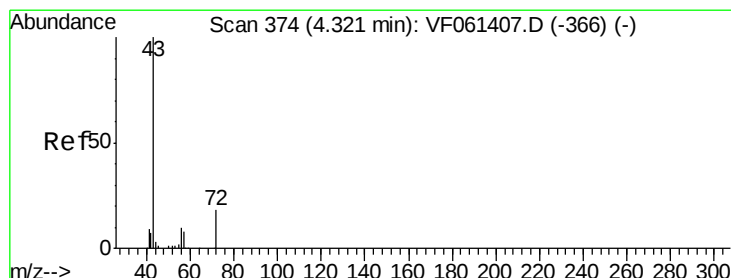
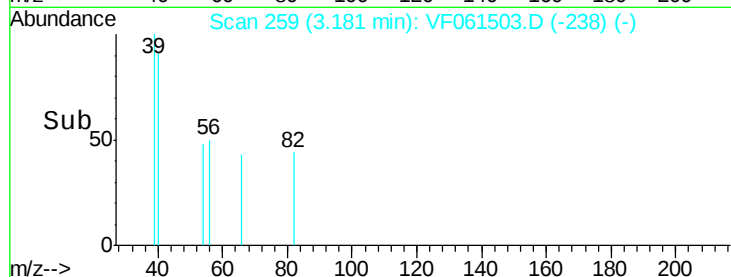
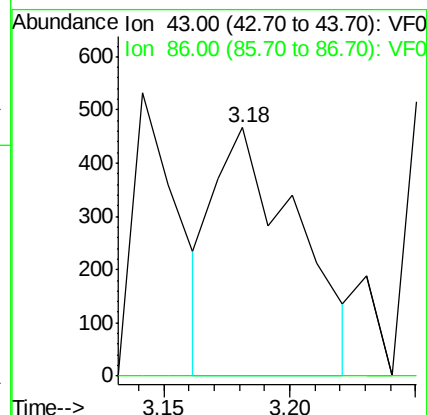
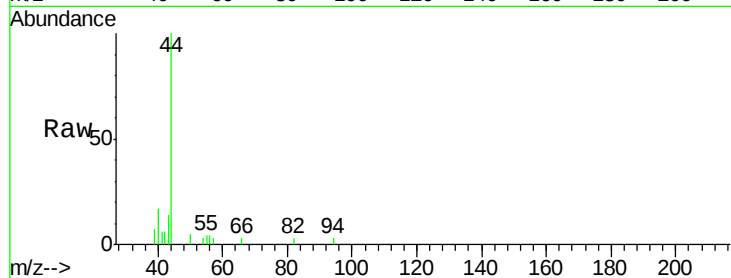
TS-V

Tot Ion: 43 Resp: 1071

Ion Ratio Lower Upper

43 100

86 0.0 6.2 9.4#



#25

2-Butanone

Concen: 247.649 ug/l

RT: 4.37 min Scan# 380

Delta R.T. 0.05 min

Lab File: VF061503.D

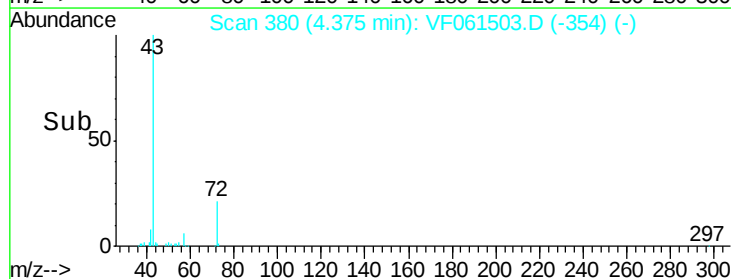
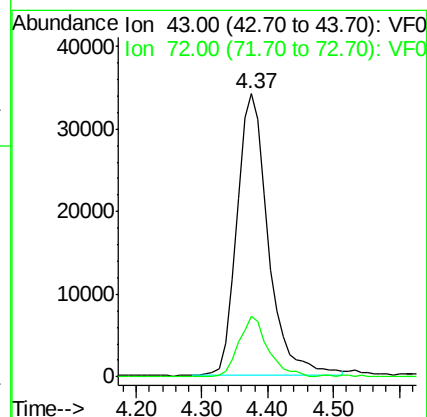
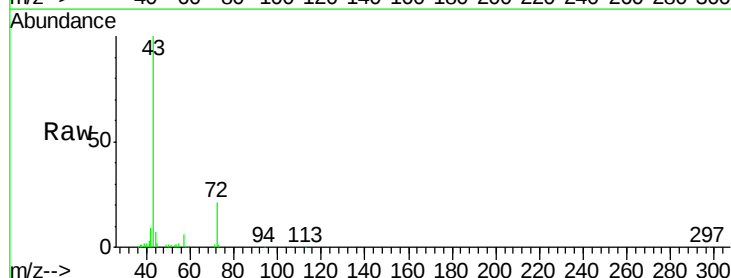
Acq: 24 Jan 2019 16:38

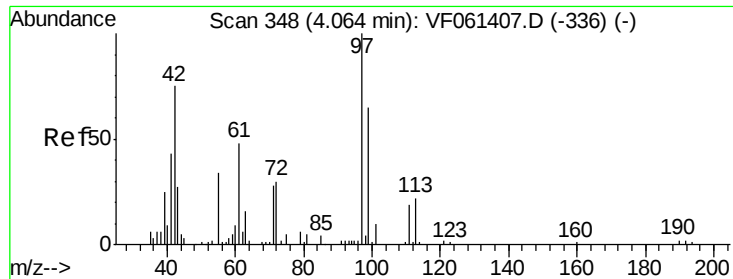
Tgt Ion: 43 Resp: 114657

Ion Ratio Lower Upper

43 100

72 21.2 15.8 23.6





#29

Tetrahydrofuran

Concen: 5.869 ug/l

RT: 4.14 min Scan# 356

Delta R.T. 0.07 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampled :

TS-V

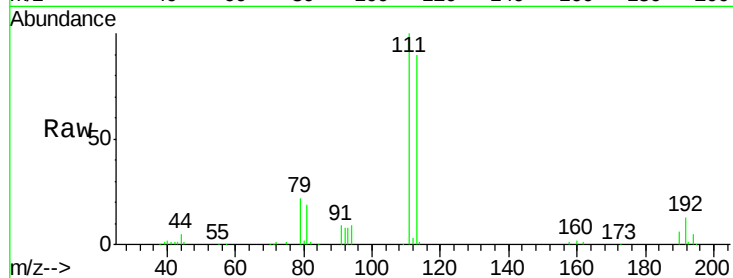
Tot Ion: 42 Resp: 1170

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

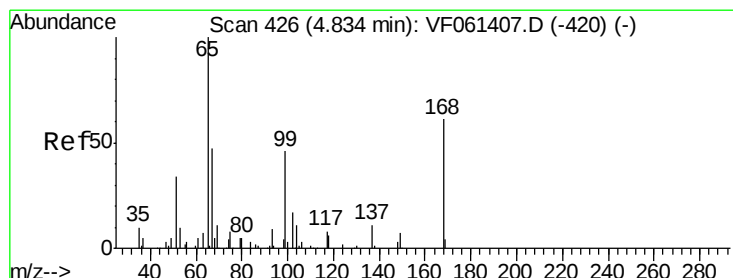
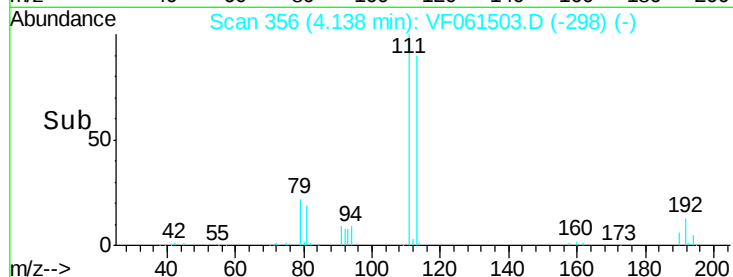
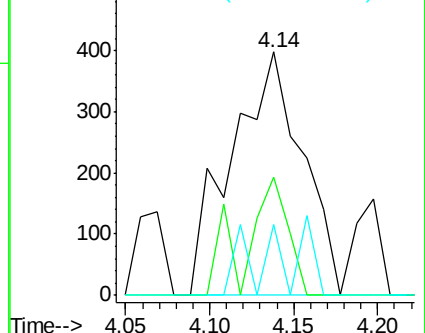
71 5.8 29.6 44.4#



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: 69.830 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.05 min

Lab File: VF061503.D

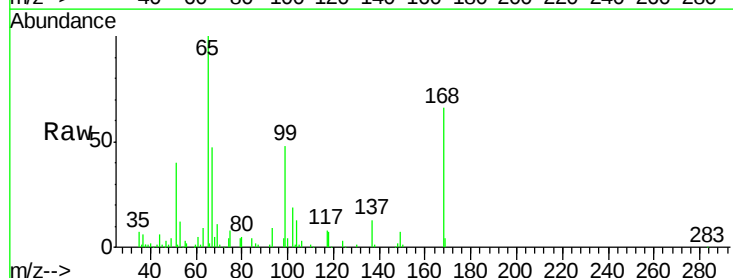
Acq: 24 Jan 2019 16:38

Tgt Ion: 65 Resp: 96910

Ion Ratio Lower Upper

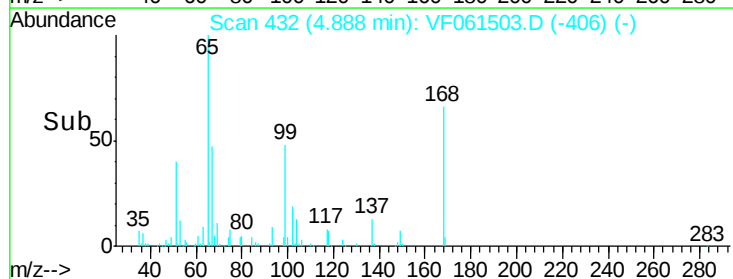
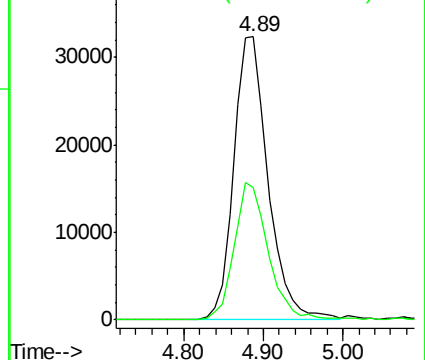
65 100

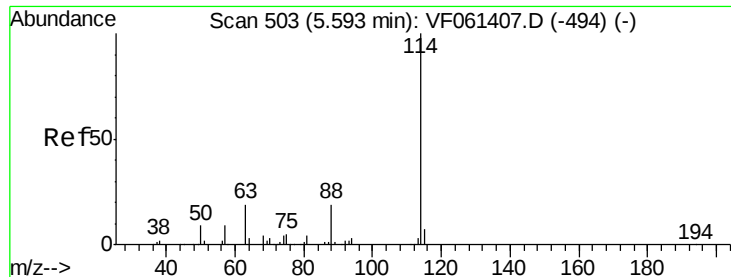
67 46.7 0.0 99.8



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: 5.64 min Scan# 508

Delta R.T. 0.04 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampleId :

TS-V

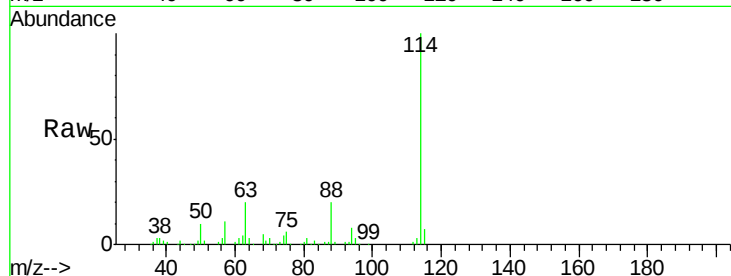
Tot Ion:114 Resp: 199036

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.0

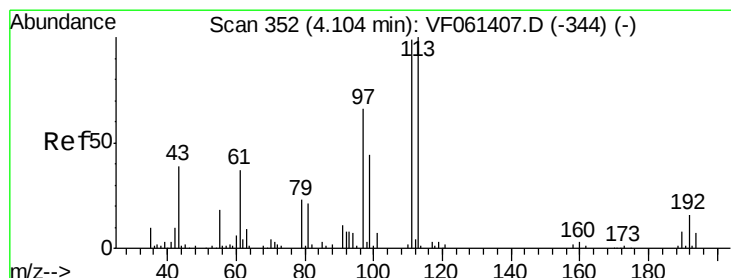
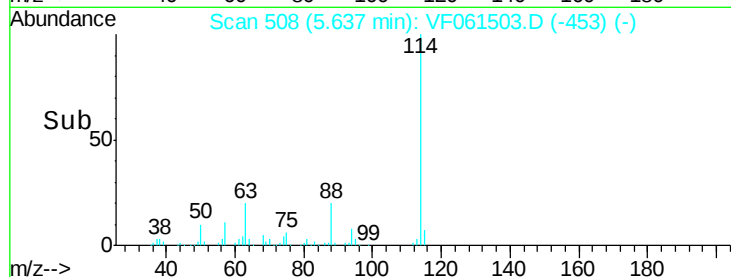
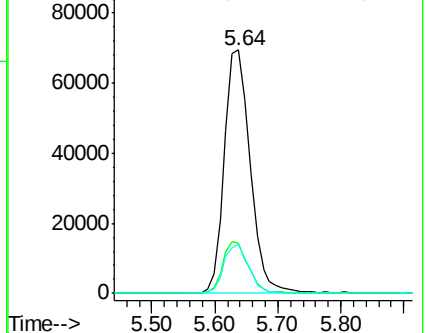
88 19.9 0.0 37.4



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: 65.375 ug/l

RT: 4.15 min Scan# 357

Delta R.T. 0.04 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

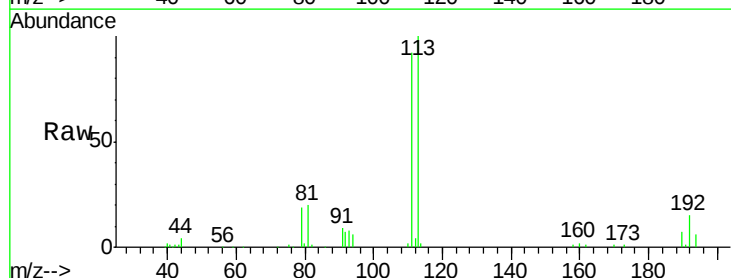
Tgt Ion:113 Resp: 102675

Ion Ratio Lower Upper

113 100

111 91.8 79.4 119.0

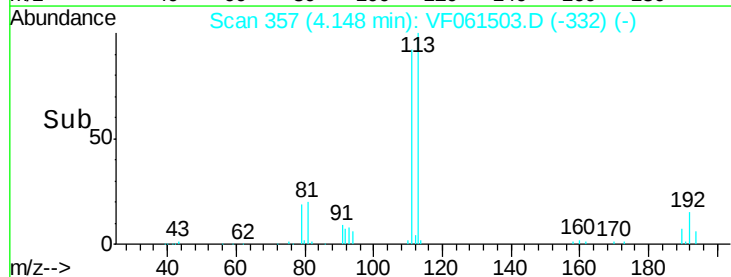
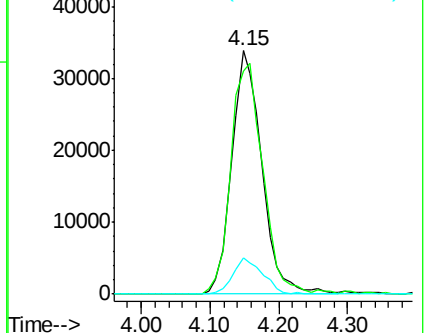
192 15.0 12.4 18.6

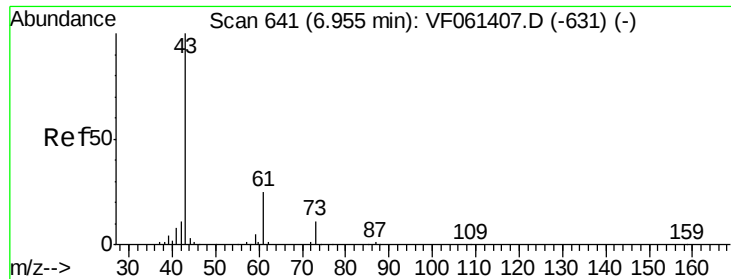


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#43

Isopropyl Acetate

Concen: 8.907 ug/l

RT: 6.93 min Scan# 639

Delta R.T. -0.03 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampleId :

TS-V

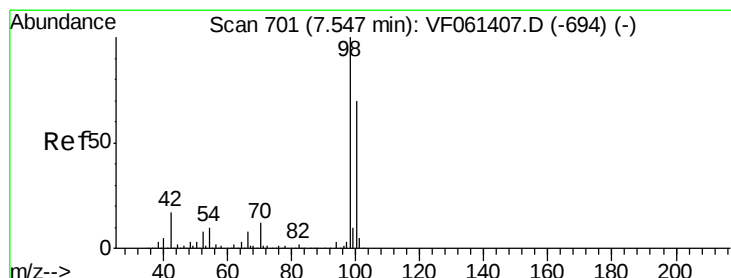
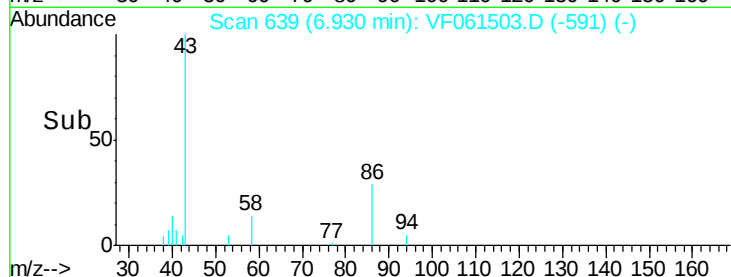
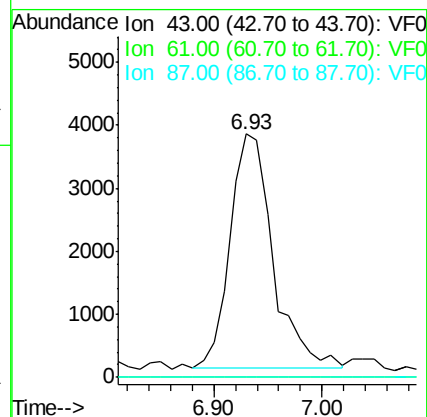
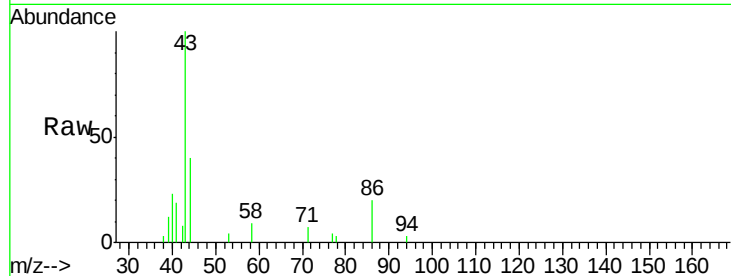
Tot Ion: 43 Resp: 10312

Ion Ratio Lower Upper

43 100

61 0.0 20.3 30.5#

87 0.0 0.5 0.7#



#50

Toluene-d8

Concen: 39.917 ug/l

RT: 7.59 min Scan# 706

Delta R.T. 0.04 min

Lab File: VF061503.D

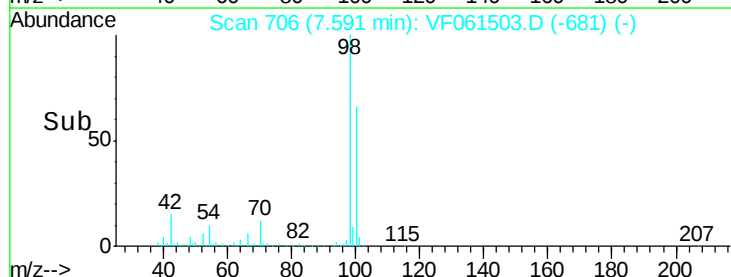
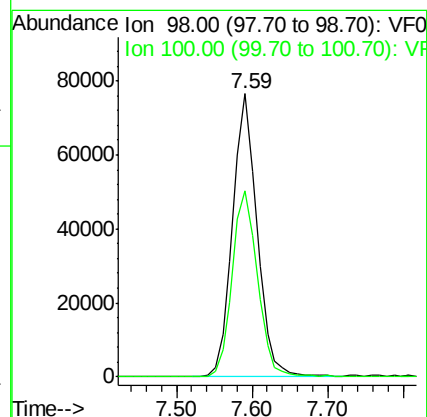
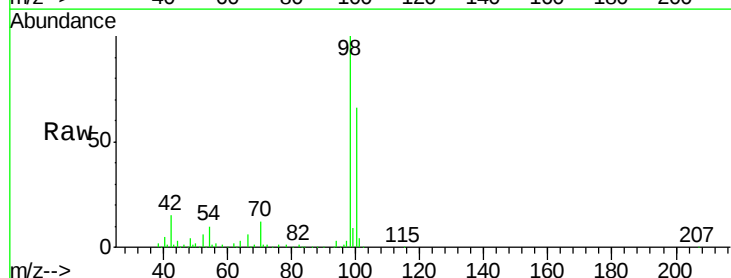
Acq: 24 Jan 2019 16:38

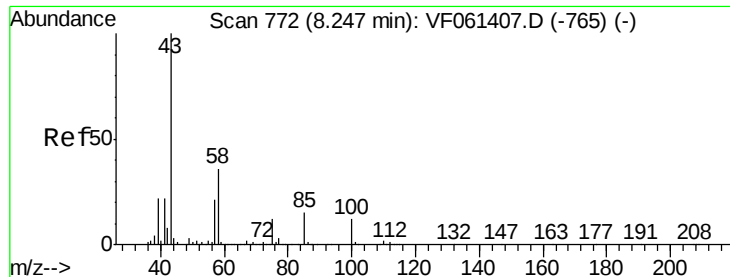
Tgt Ion: 98 Resp: 171765

Ion Ratio Lower Upper

98 100

100 65.9 55.6 83.4





#51

4-Methyl-2-Pentanone

Concen: 3.915 ug/l

RT: 8.30 min Scan# 778

Delta R.T. 0.05 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampled :

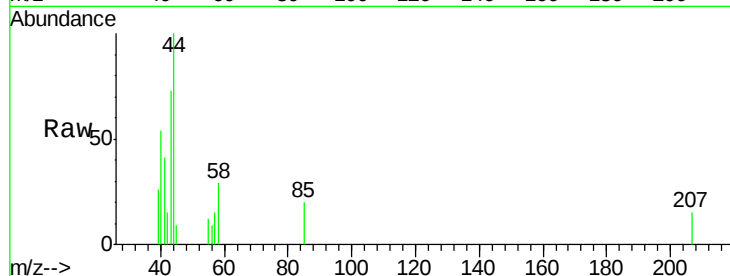
TS-V

Tot Ion: 43 Resp: 3332

Ion Ratio Lower Upper

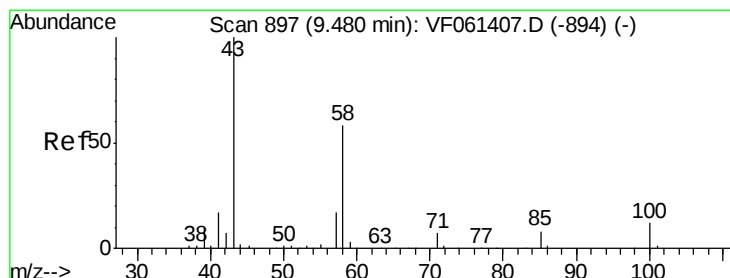
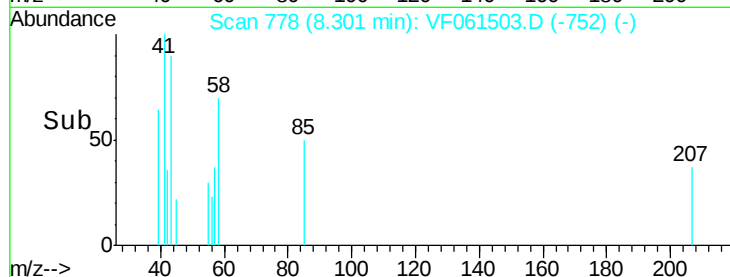
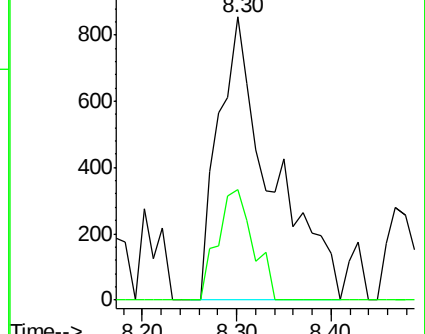
43 100

58 39.1 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 5.885 ug/l

RT: 9.53 min Scan# 903

Delta R.T. 0.05 min

Lab File: VF061503.D

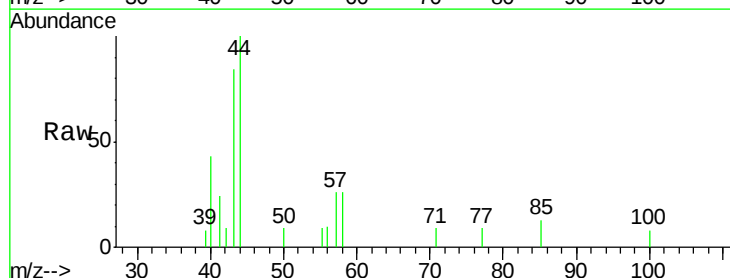
Acq: 24 Jan 2019 16:38

Tgt Ion: 43 Resp: 3493

Ion Ratio Lower Upper

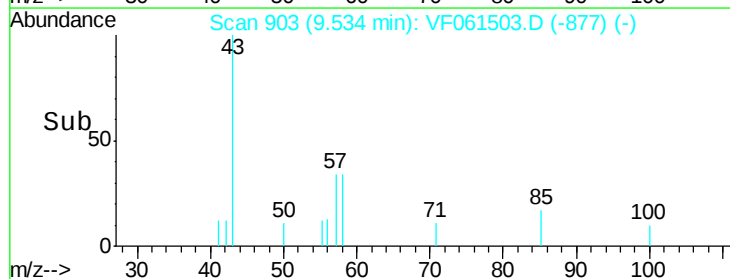
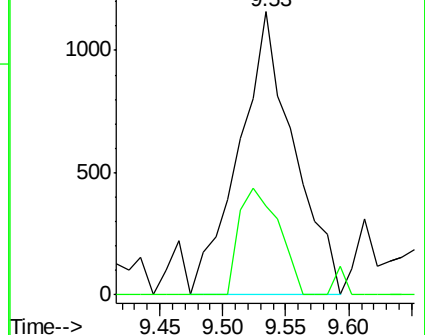
43 100

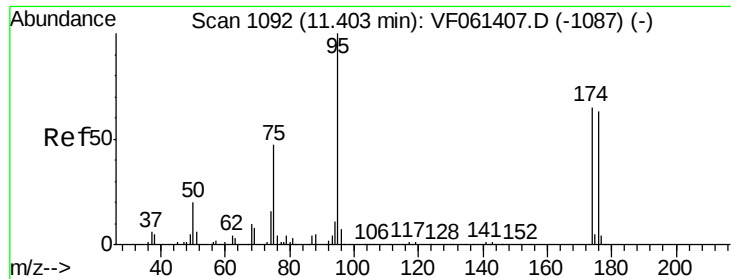
58 31.2 25.9 77.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 23.656 ug/l

RT: 11.44 min Scan# 1096

Delta R.T. 0.03 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampleId :

TS-V

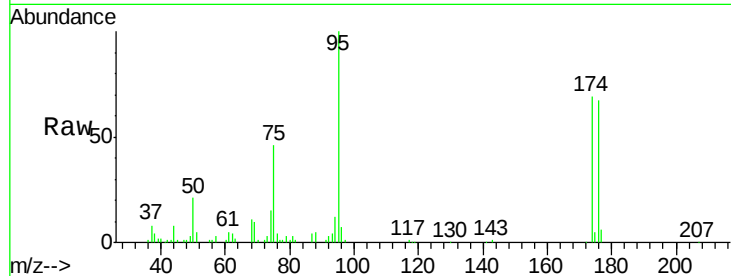
Tot Ion: 95 Resp: 47560

Ion Ratio Lower Upper

95 100

174 68.8 0.0 130.4

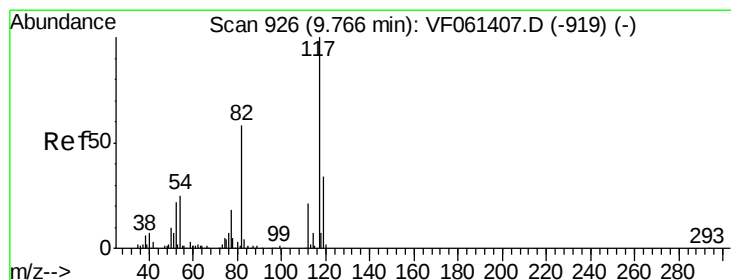
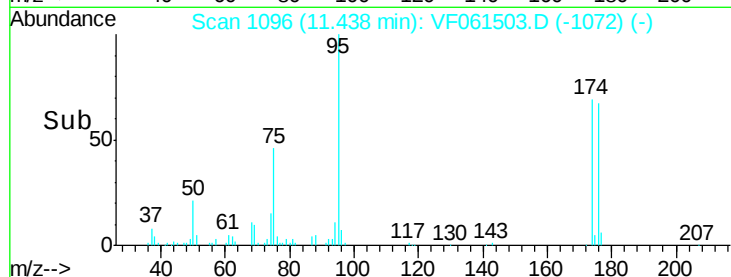
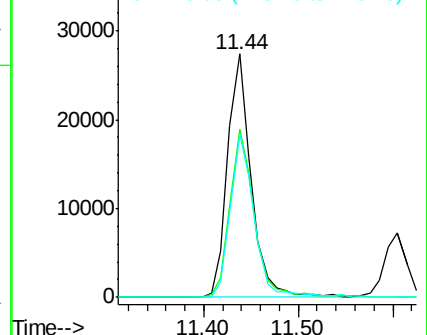
176 66.8 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): VF0

Ion 176.00 (175.70 to 176.70): VF0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.81 min Scan# 931

Delta R.T. 0.04 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

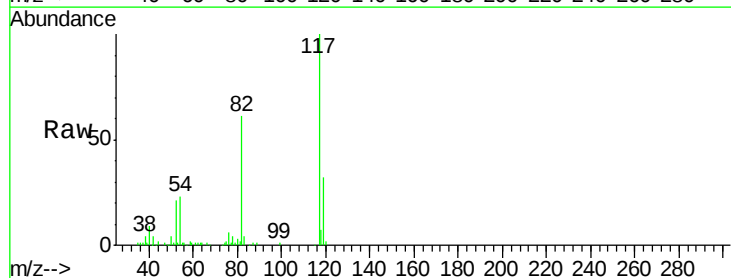
Tgt Ion: 117 Resp: 107040

Ion Ratio Lower Upper

117 100

82 60.9 46.4 69.6

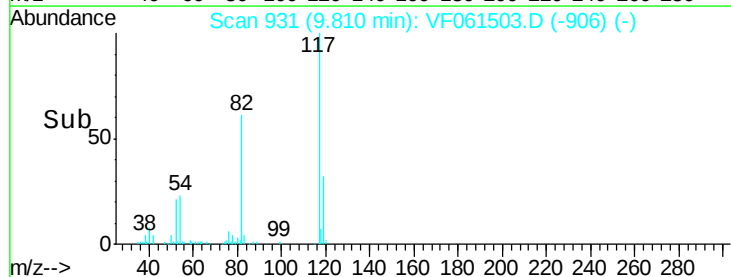
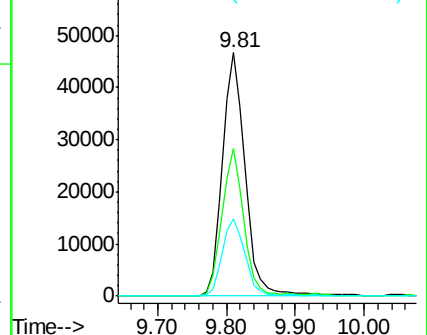
119 31.6 27.2 40.8

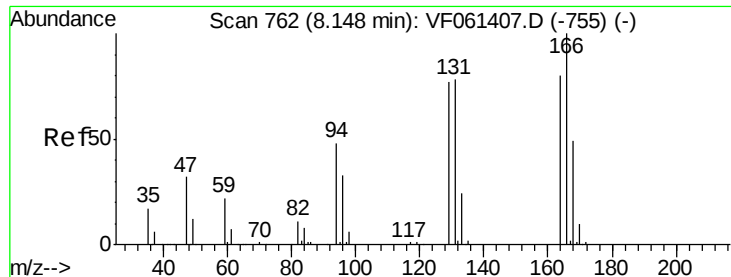


Abundance Ion 117.00 (116.70 to 117.70): VF0

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): VF0





#64

Tetrachloroethene

Concen: 1.152 ug/l

RT: 8.19 min Scan# 767

Delta R.T. 0.04 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

Instrument :

MSVOA_F

ClientSampleId :

TS-V

Tot Ion:164 Resp: 927

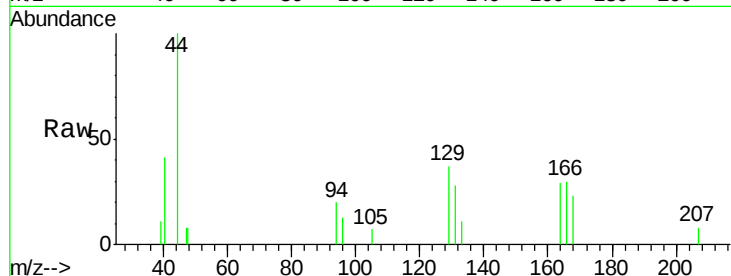
Ion Ratio Lower Upper

164 100

166 105.2 99.6 149.4

129 128.7 76.4 114.6#

131 97.3 77.9 116.9

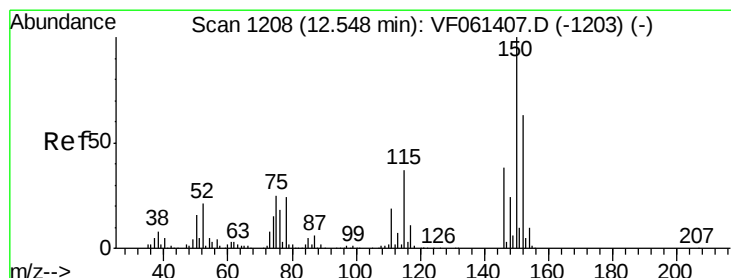
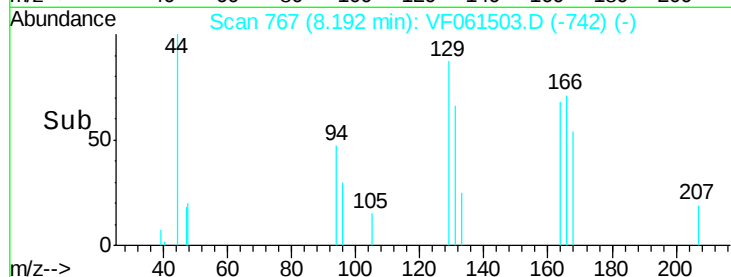
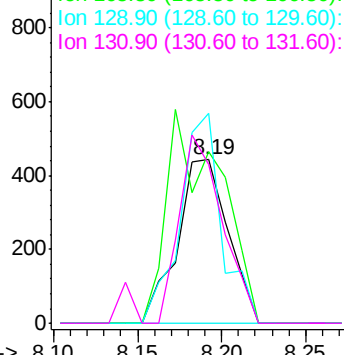


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1211

Delta R.T. 0.02 min

Lab File: VF061503.D

Acq: 24 Jan 2019 16:38

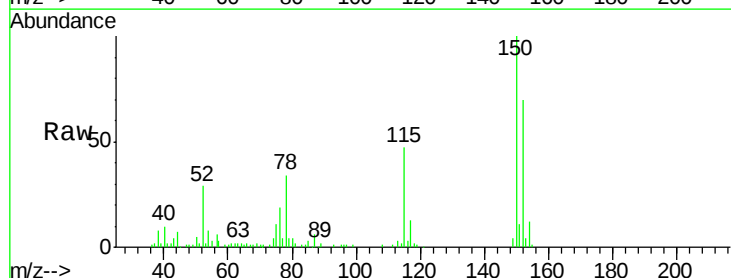
Tgt Ion:152 Resp: 27200

Ion Ratio Lower Upper

152 100

115 66.6 30.0 90.0

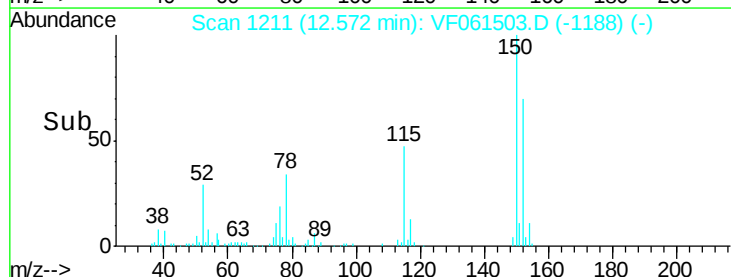
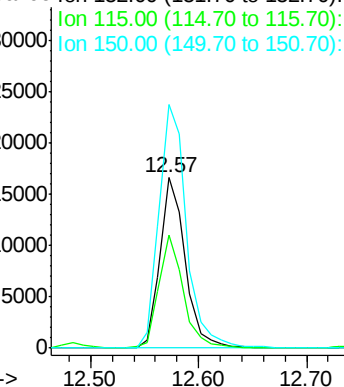
150 143.1 0.0 321.4

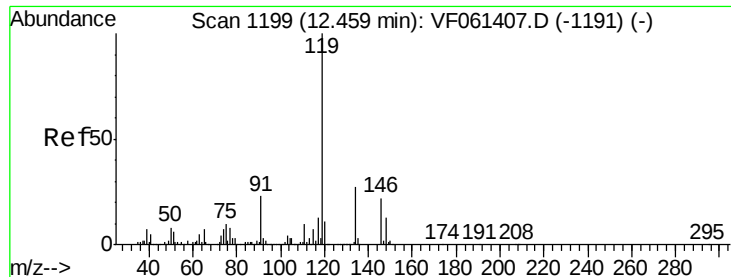


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V

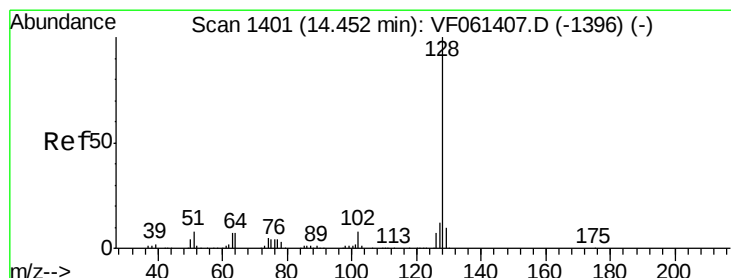
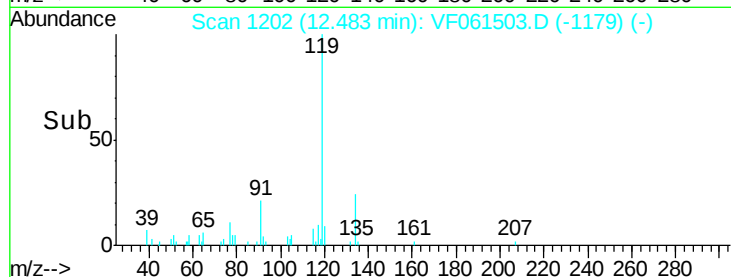
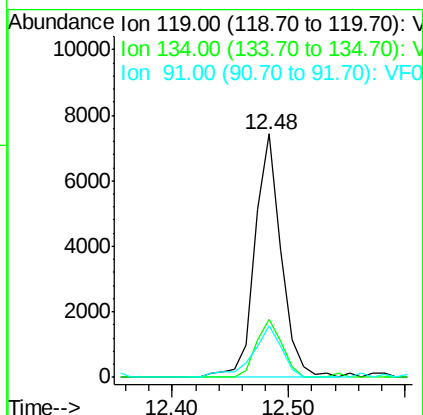
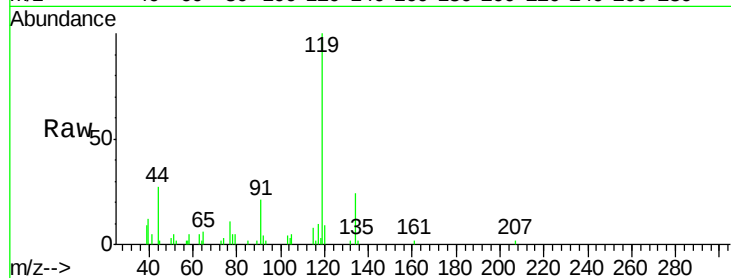




#86
p-Isopropyltoluene
Concen: 5.660 ug/l
RT: 12.48 min Scan# 1202
Delta R.T. 0.02 min
Lab File: VF061503.D
Acq: 24 Jan 2019 16:38

Instrument :
MSVOA_F
ClientSampled :
TS-V

Tot Ion:119 Resp: 11659
Ion Ratio Lower Upper
119 100
134 24.1 13.4 40.2
91 21.4 11.4 34.2



#95
Naphthalene
Concen: 3.369 ug/l
RT: 14.48 min Scan# 1404
Delta R.T. 0.02 min
Lab File: VF061503.D
Acq: 24 Jan 2019 16:38

Tgt Ion:128 Resp: 3919
Ion Ratio Lower Upper
128 100
127 15.5 9.5 14.3#
129 8.3 8.4 12.6#

