

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF012519\
 Data File : VF061519.D
 Acq On : 25 Jan 2019 14:26
 Operator : VA/AP
 Sample : K1231-01
 Misc : 5.85g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Jan 28 00:08:21 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	4.86	168	52623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	69941	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.78	117	47169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.55	152	16142	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	10131	15.59	ug/l	0.00
Spiked Amount			Recovery	=	31.18%	
35) Dibromofluoromethane	4.11	113	15562	28.20	ug/l	0.00
Spiked Amount			Recovery	=	56.40%	
50) Toluene-d8	7.56	98	50906	33.67	ug/l	0.00
Spiked Amount			Recovery	=	67.34%	
62) 4-Bromofluorobenzene	11.41	95	15132	21.42	ug/l	0.00
Spiked Amount			Recovery	=	42.84%	

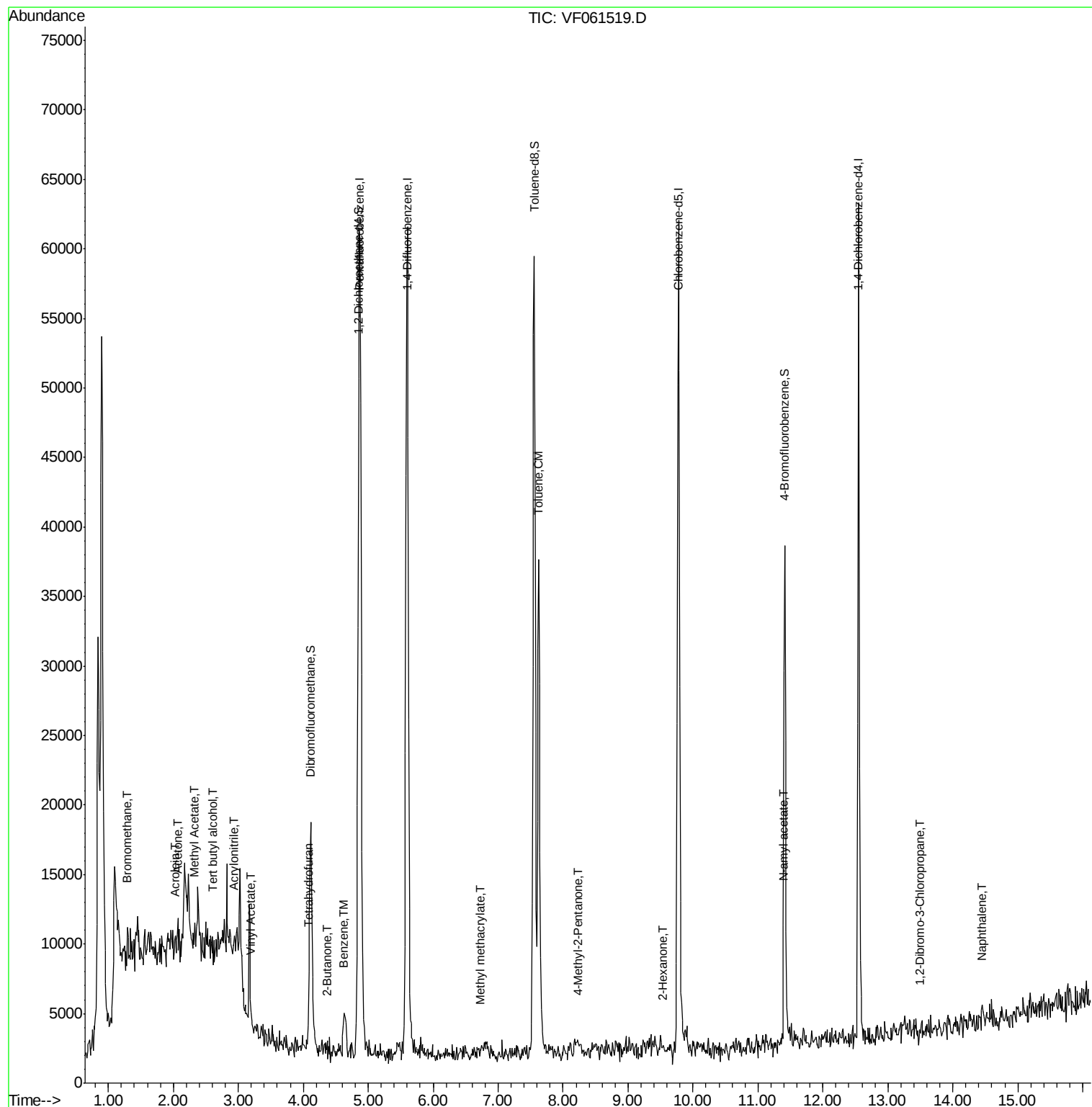
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.30	94	927	2.108	ug/l #	2
11) Tert butyl alcohol	2.59	59	60	2.182	ug/l #	1
13) Acrolein	2.01	56	362	24.987	ug/l #	67
14) Allyl chloride	2.09	41	317	Below Cal	#	70
15) Acrylonitrile	2.95	53	180	2.555	ug/l #	51
16) Acetone	2.07	43	520	3.990	ug/l	99
18) Methyl Acetate	2.33	43	603	2.333	ug/l	99
23) Vinyl Acetate	3.20	43	1035	4.589	ug/l #	78
25) 2-Butanone	4.36	43	312	1.439	ug/l #	57
29) Tetrahydrofuran	4.07	42	168	1.800	ug/l #	38
40) Benzene	4.64	78	3822	2.118	ug/l #	87
48) Methyl methacrylate	6.73	41	461	1.687	ug/l #	19
51) 4-Methyl-2-Pentanone	8.24	43	355	1.187	ug/l #	39
52) Toluene	7.62	92	18850	15.863	ug/l	92
59) 2-Hexanone	9.54	43	1212	5.811	ug/l #	26
74) N-amyl acetate	11.38	43	489	1.575	ug/l #	47
92) 1,2-Dibromo-3-Chloropropan	13.49	75	77	1.856	ug/l #	1
95) Naphthalene	14.46	128	732	1.060	ug/l #	85

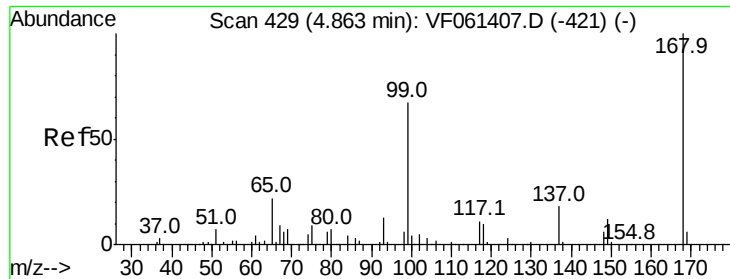
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F011519S.M
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: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

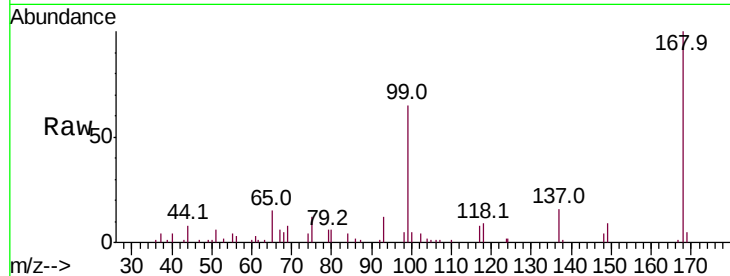
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 52623

Ion Ratio Lower Upper

168 100

99 65.4 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

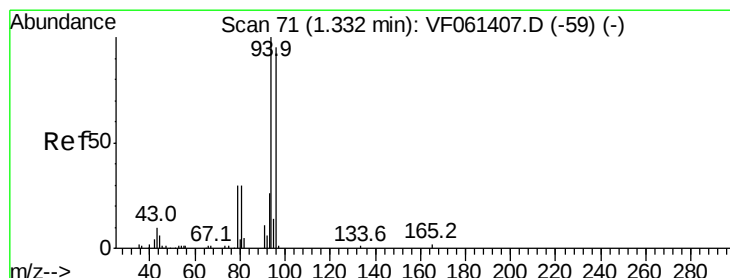
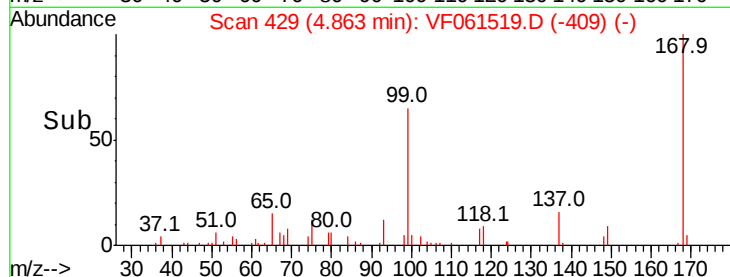
15000

10000

5000

0

Time-->



#5

Bromomethane

Concen: 2.108 ug/l

RT: 1.30 min Scan# 68

Delta R.T. -0.03 min

Lab File: VF061519.D

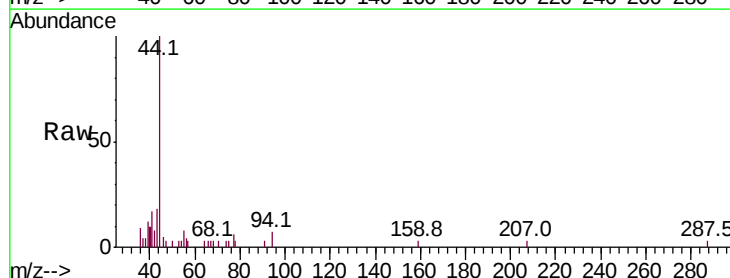
Acq: 25 Jan 2019 14:26

Tgt Ion: 94 Resp: 927

Ion Ratio Lower Upper

94 100

96 0.0 76.0 114.0#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

1.30

300

250

200

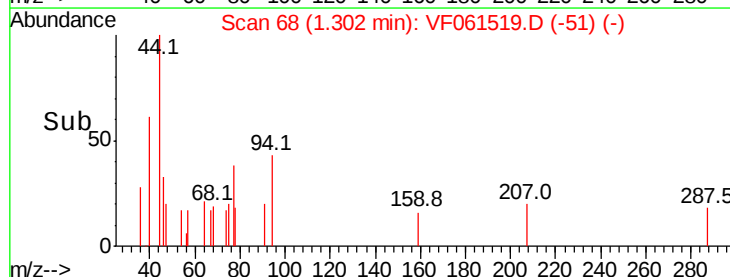
150

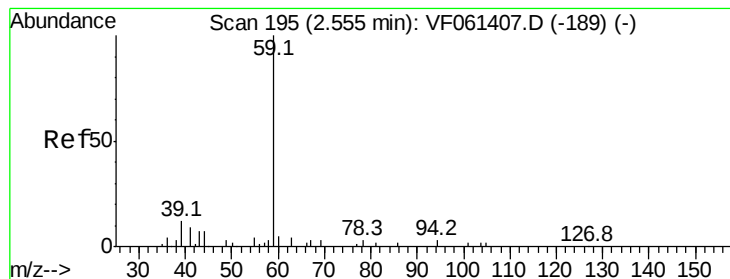
100

50

0

Time-->



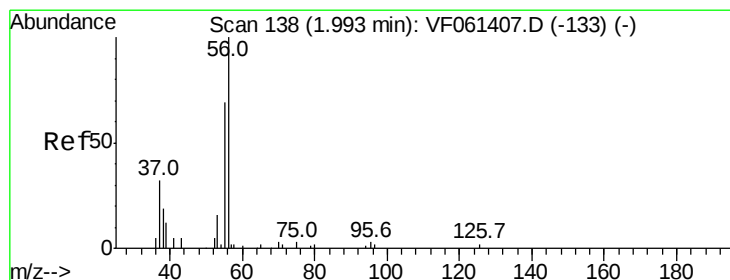
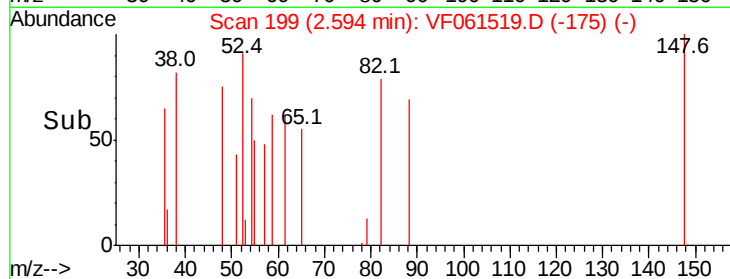
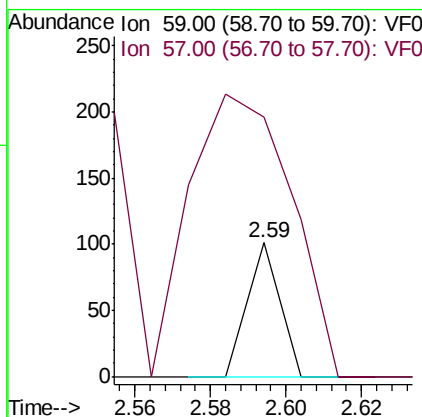
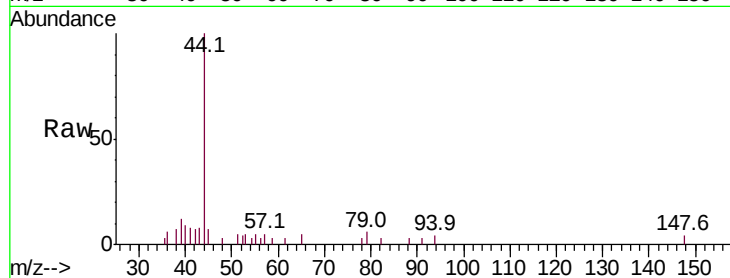


#11

Tert butyl alcohol
 Concen: 2.182 ug/l
 RT: 2.59 min Scan# 199
 Delta R.T. 0.04 min
 Lab File: VF061519.D
 Acq: 25 Jan 2019 14:26

Instrument :
 MSVOA_F
 ClientSampled :

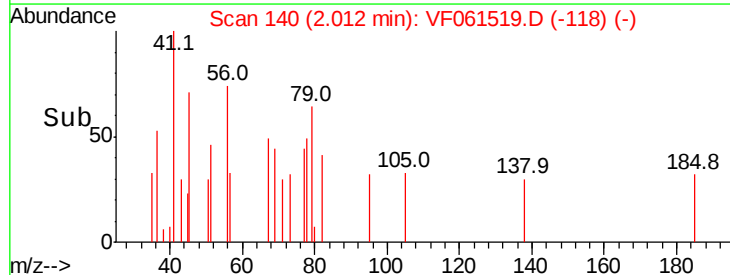
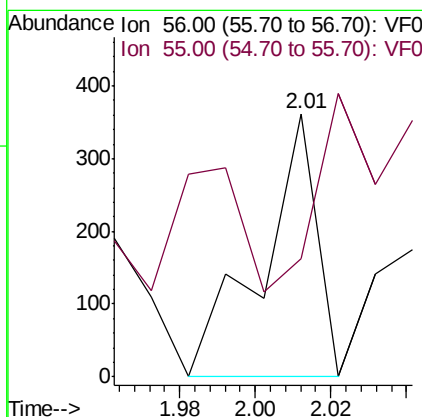
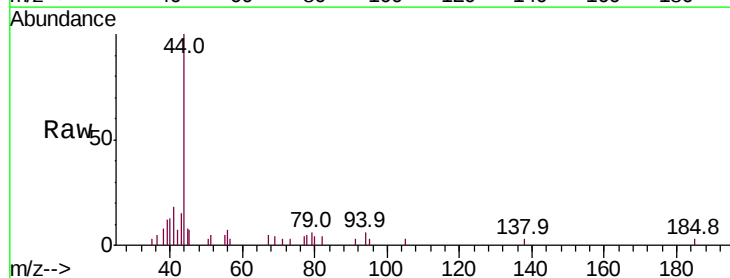
Tot Ion: 59 Resp: 60
 Ion Ratio Lower Upper
 59 100
 57 194.1 11.9 17.9#

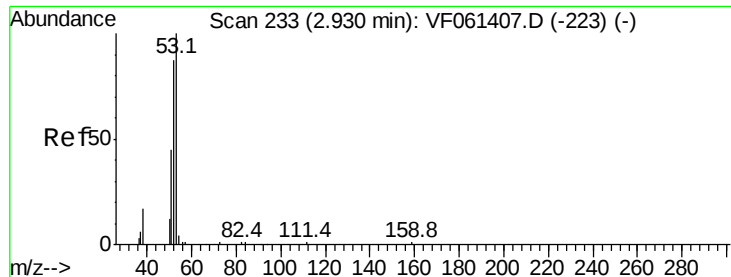


#13

Acrolein
 Concen: 24.987 ug/l
 RT: 2.01 min Scan# 140
 Delta R.T. 0.02 min
 Lab File: VF061519.D
 Acq: 25 Jan 2019 14:26

Tgt Ion: 56 Resp: 362
 Ion Ratio Lower Upper
 56 100
 55 44.8 57.5 86.3#





#15

Acrylonitrile

Concen: 2.555 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.02 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :
MSVOA_F
ClientSampled :

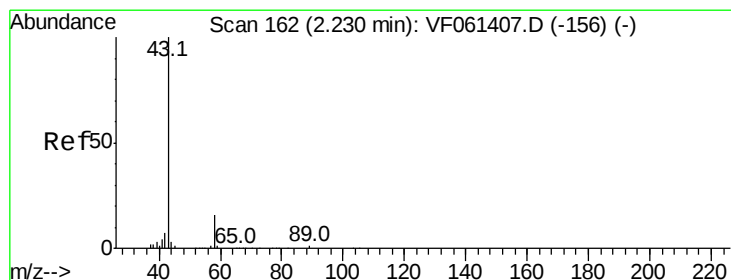
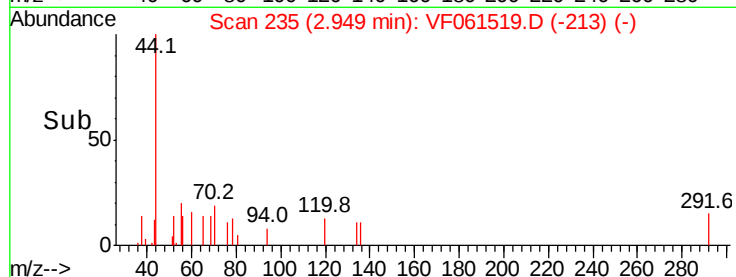
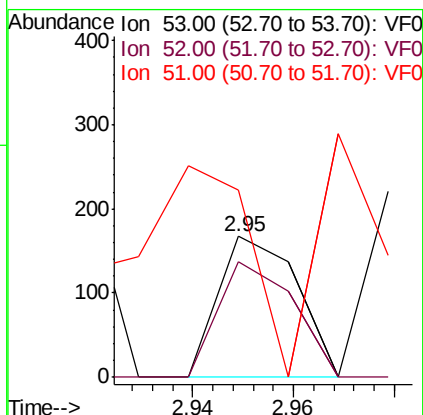
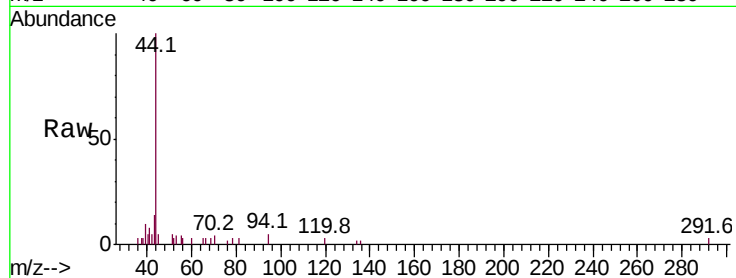
Tot Ion: 53 Resp: 180

Ion Ratio Lower Upper

53 100

52 82.0 69.6 104.4

51 132.9 36.8 55.2#



#16

Acetone

Concen: 3.990 ug/l

RT: 2.07 min Scan# 146

Delta R.T. -0.16 min

Lab File: VF061519.D

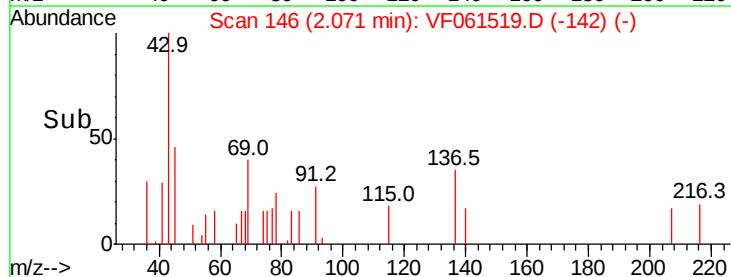
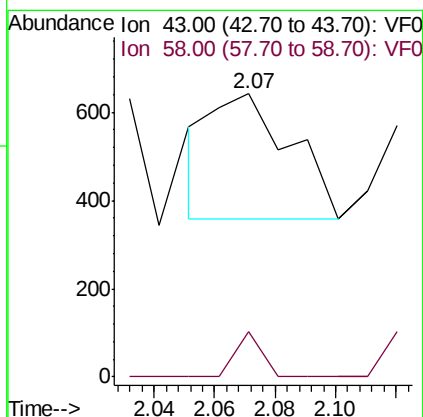
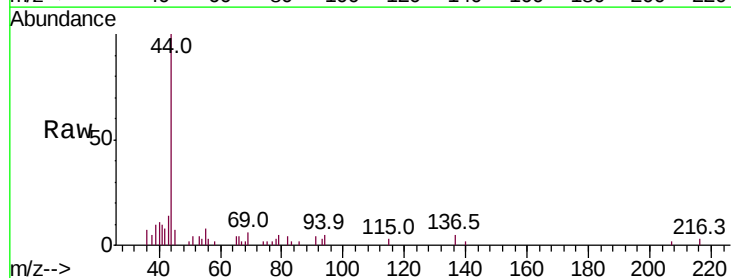
Acq: 25 Jan 2019 14:26

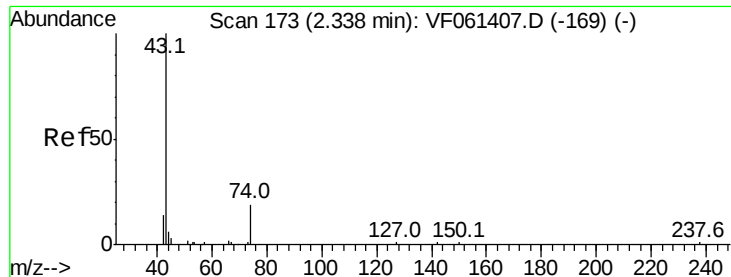
Tgt Ion: 43 Resp: 520

Ion Ratio Lower Upper

43 100

58 16.2 13.3 19.9

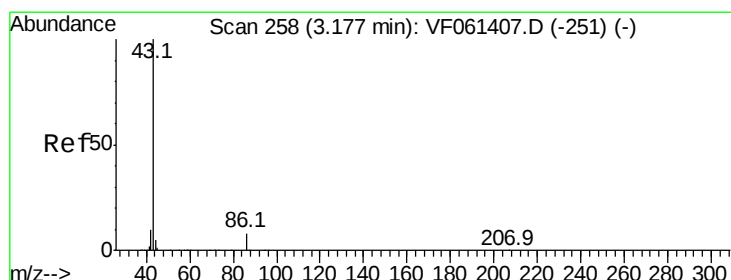
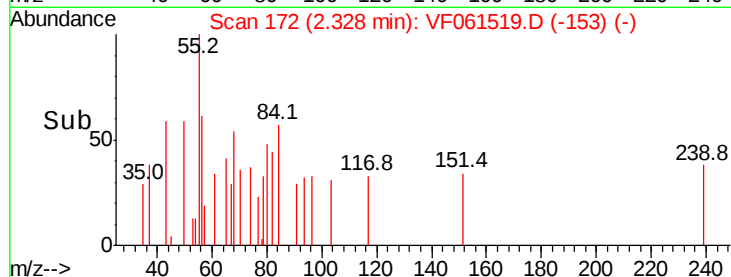
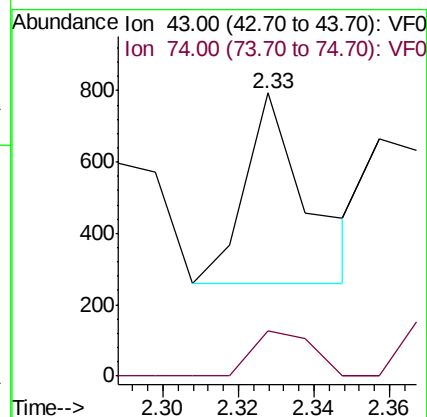
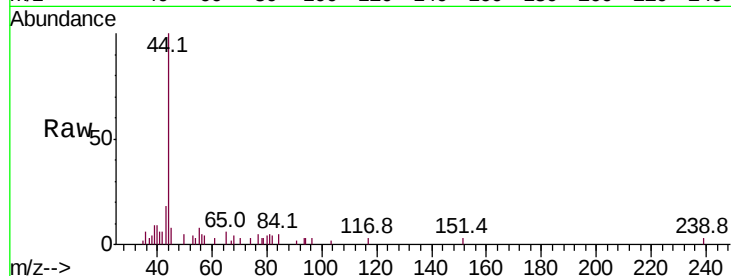




#18
Methyl Acetate
Concen: 2.333 ug/l
RT: 2.33 min Scan# 172
Delta R.T. -0.01 min
Lab File: VF061519.D
Acq: 25 Jan 2019 14:26

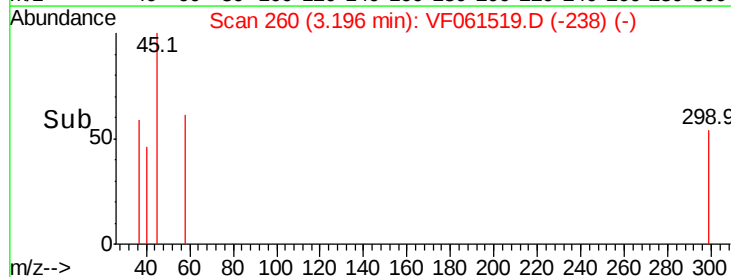
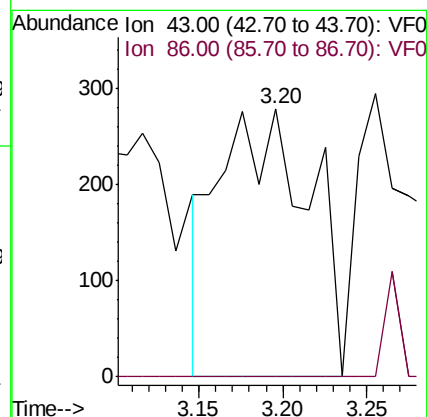
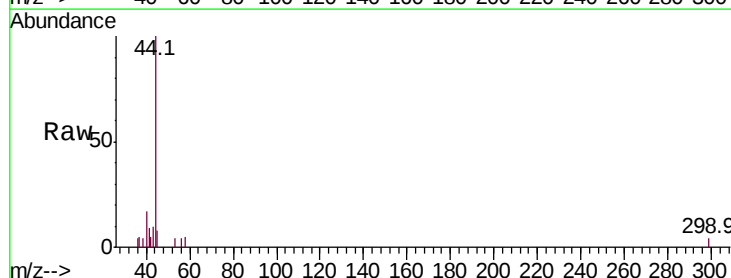
Instrument :
MSVOA_F
ClientSampleId :

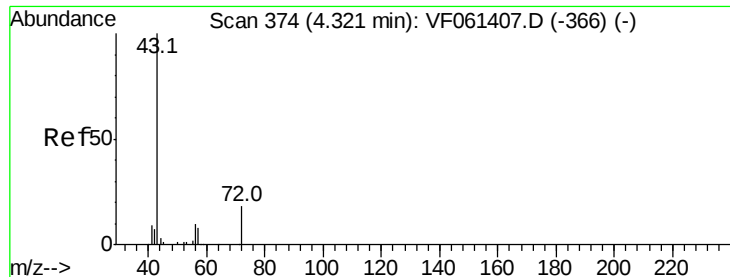
Tot Ion: 43 Resp: 603
Ion Ratio Lower Upper
43 100
74 16.1 13.4 20.0



#23
Vinyl Acetate
Concen: 4.589 ug/l
RT: 3.20 min Scan# 260
Delta R.T. 0.02 min
Lab File: VF061519.D
Acq: 25 Jan 2019 14:26

Tgt Ion: 43 Resp: 1035
Ion Ratio Lower Upper
43 100
86 0.0 6.2 9.4#





#25

2-Butanone

Concen: 1.439 ug/l

RT: 4.36 min Scan# 378

Delta R.T. 0.04 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :

MSVOA_F

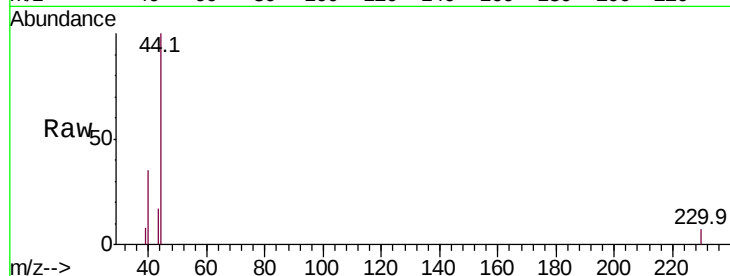
ClientSampleId :

Tot Ion: 43 Resp: 312

Ion Ratio Lower Upper

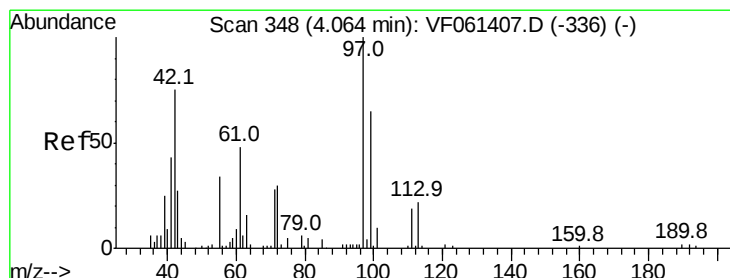
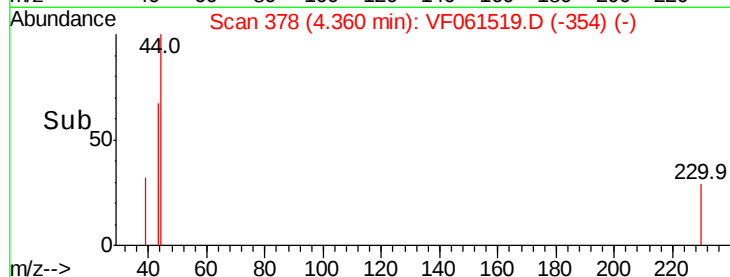
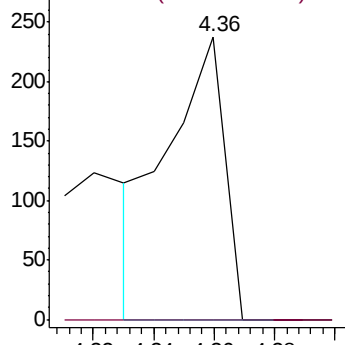
43 100

72 0.0 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: 1.800 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.01 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

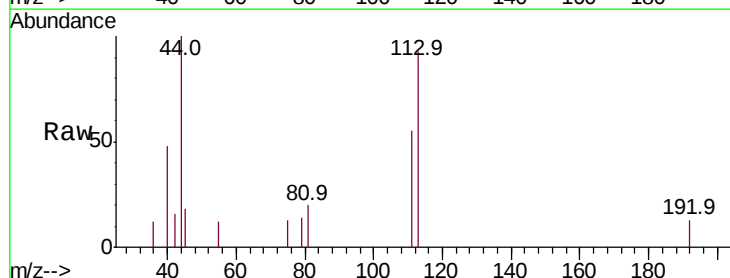
Tgt Ion: 42 Resp: 168

Ion Ratio Lower Upper

42 100

72 0.0 28.9 43.3#

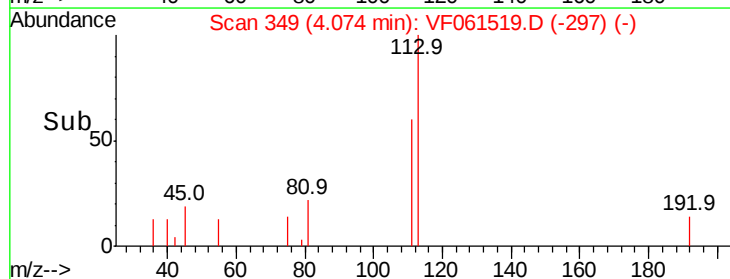
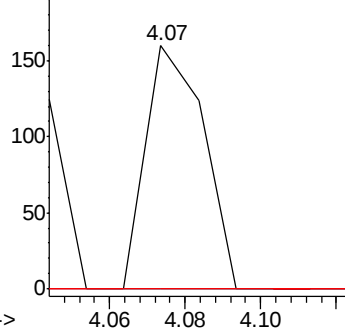
71 0.0 29.6 44.4#

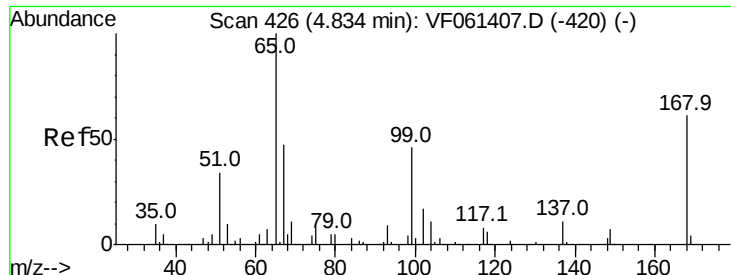


Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0





#33

1,2-Dichloroethane-d4

Concen: 15.593 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.01 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

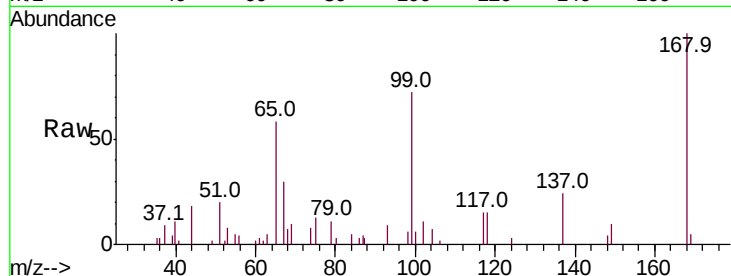
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 65 Resp: 10131

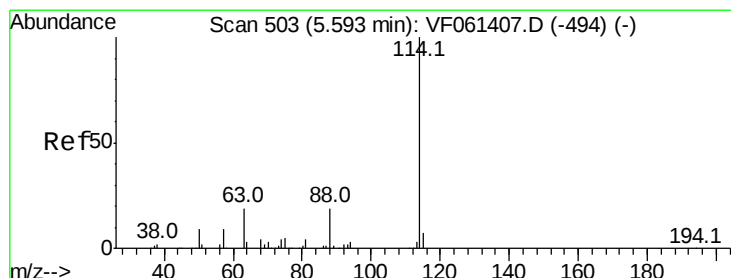
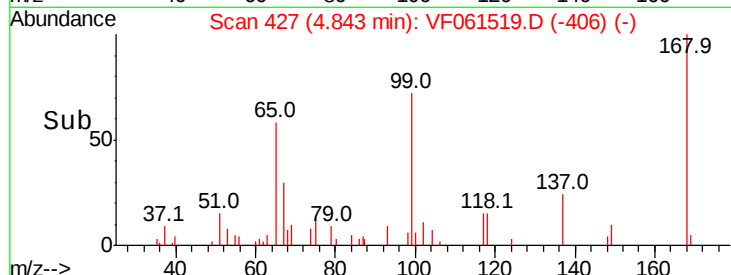
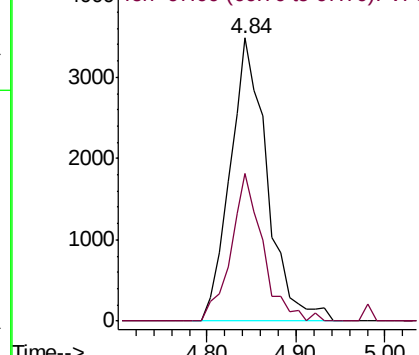
Ion Ratio Lower Upper

65 100

67 52.3 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: 5.60 min Scan# 504

Delta R.T. 0.01 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

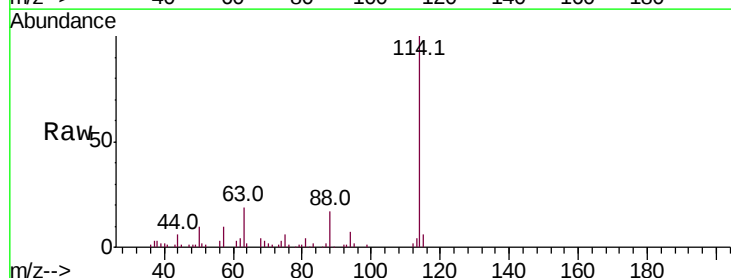
Tgt Ion:114 Resp: 69941

Ion Ratio Lower Upper

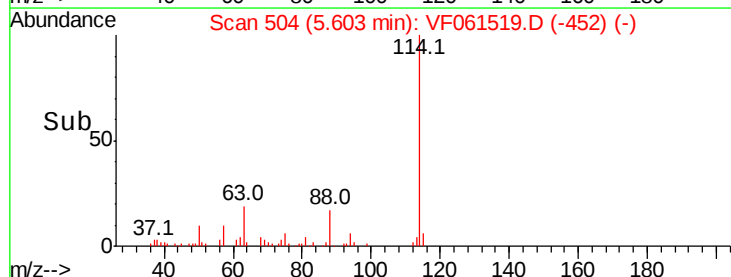
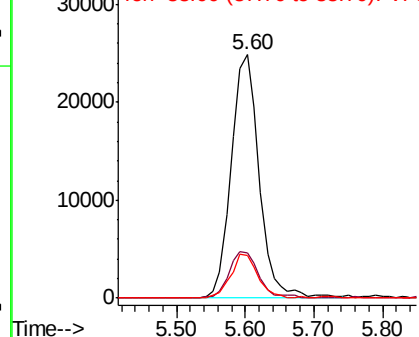
114 100

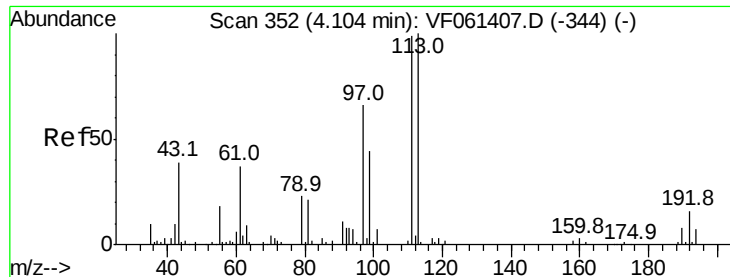
63 18.5 0.0 39.0

88 17.4 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: 28.197 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.01 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :
MSVOA_F
ClientSampleId :

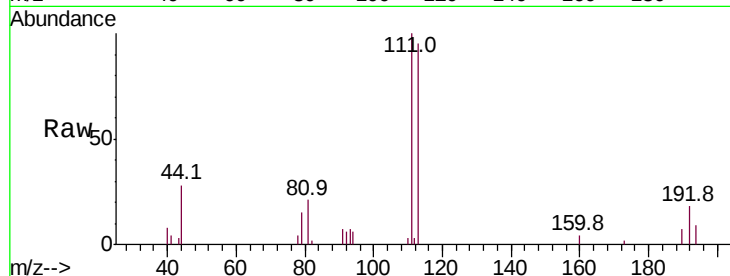
Tot Ion:113 Resp: 15562

Ion Ratio Lower Upper

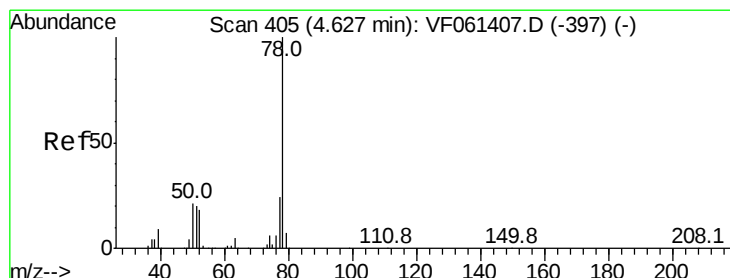
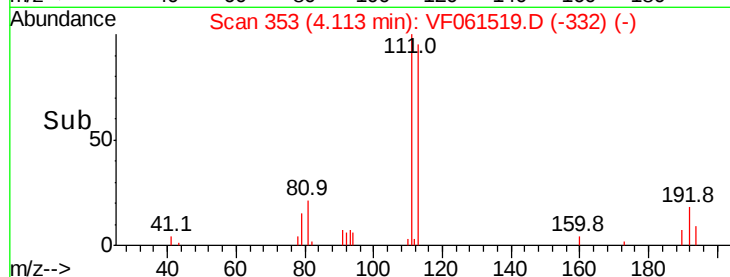
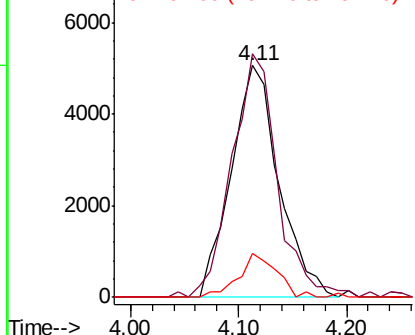
113 100

111 105.1 79.4 119.0

192 18.7 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



#40

Benzene

Concen: 2.118 ug/l

RT: 4.64 min Scan# 406

Delta R.T. 0.01 min

Lab File: VF061519.D

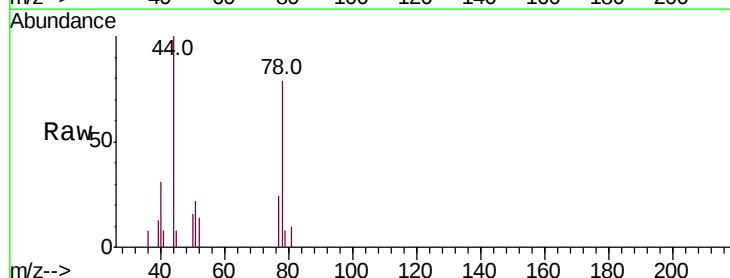
Acq: 25 Jan 2019 14:26

Tgt Ion: 78 Resp: 3822

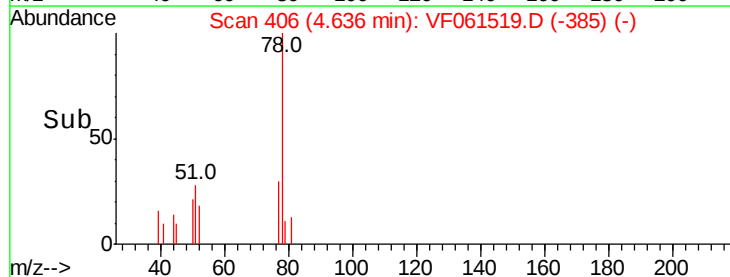
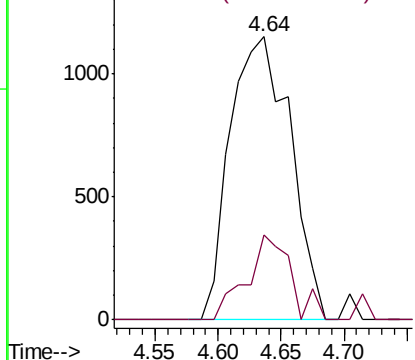
Ion Ratio Lower Upper

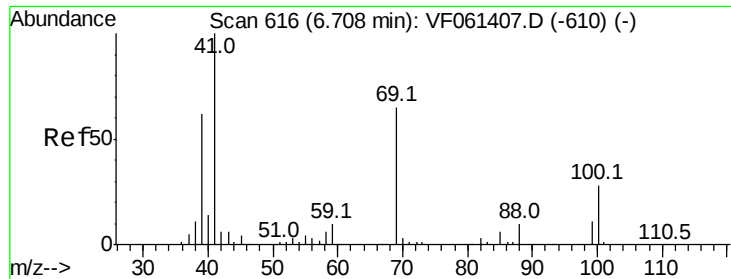
78 100

77 30.0 19.0 28.6#



Abundance Ion 78.10 (77.80 to 78.80): VF0
Ion 77.00 (76.70 to 77.70): VF0





#48

Methyl methacrylate

Concen: 1.687 ug/l

RT: 6.73 min Scan# 618

Delta R.T. 0.02 min

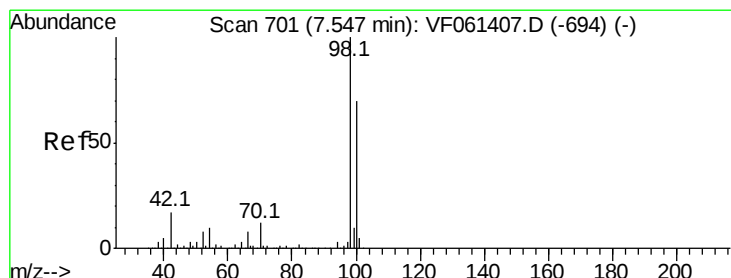
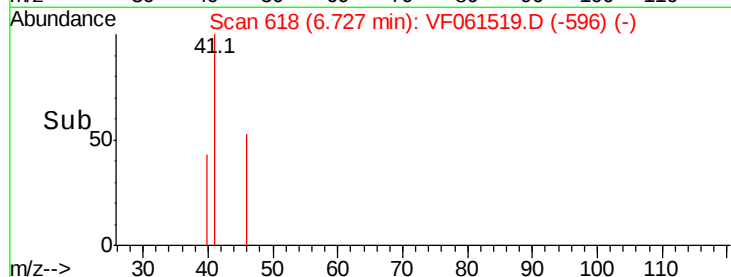
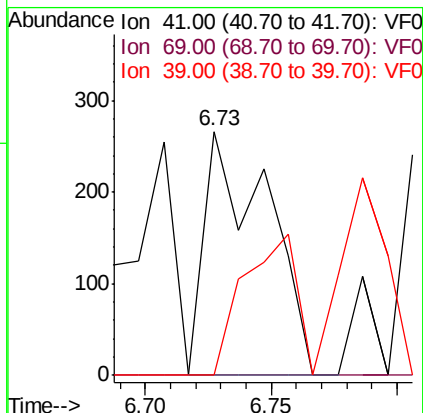
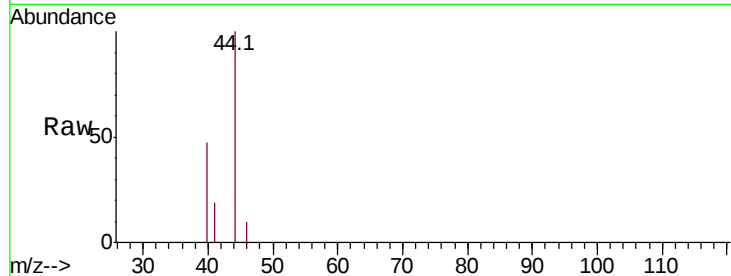
Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 41 Resp: 461

Ion	Ratio	Lower	Upper
41	100		
69	0.0	51.7	77.5#
39	0.0	49.2	73.8#



#50

Toluene-d8

Concen: 33.666 ug/l

RT: 7.56 min Scan# 702

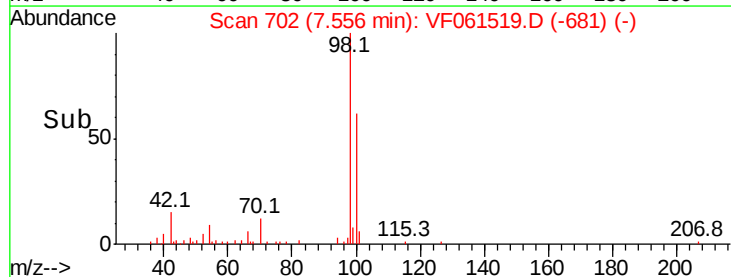
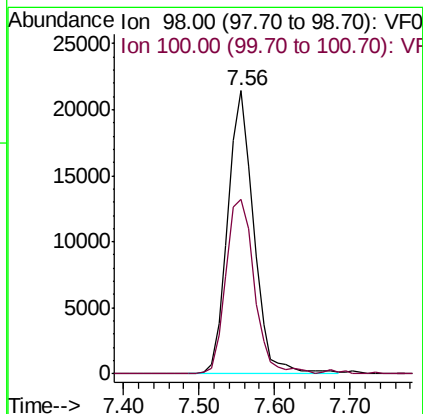
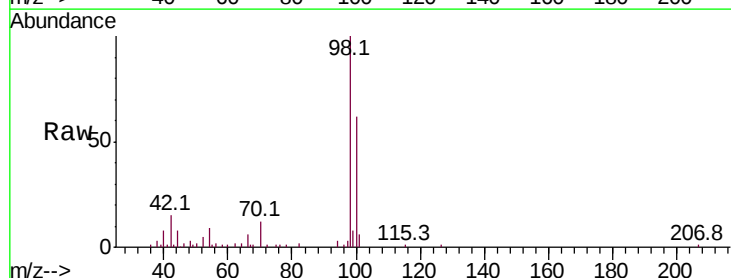
Delta R.T. 0.01 min

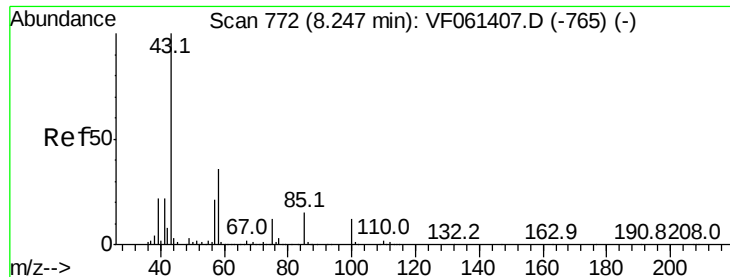
Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Tgt Ion: 98 Resp: 50906

Ion	Ratio	Lower	Upper
98	100		
100	61.6	55.6	83.4





#51

4-Methyl-2-Pentanone

Concen: 1.187 ug/l

RT: 8.24 min Scan# 771

Delta R.T. -0.01 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :

MSVOA_F

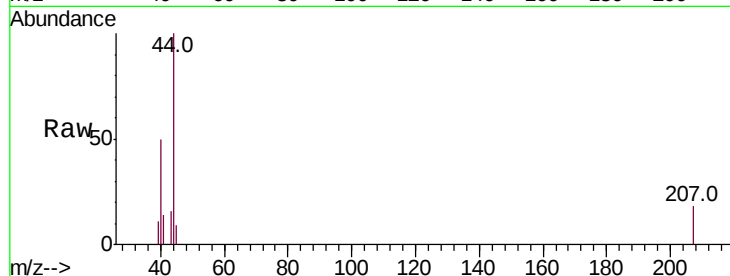
ClientSampleId :

Tot Ion: 43 Resp: 355

Ion Ratio Lower Upper

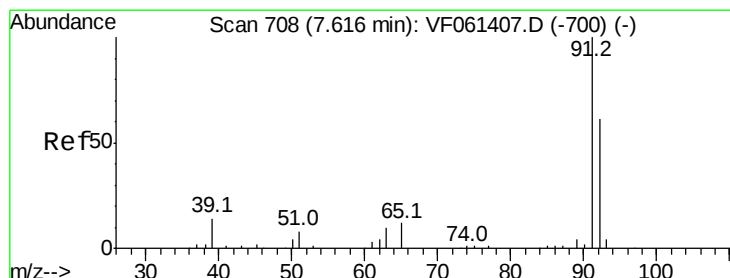
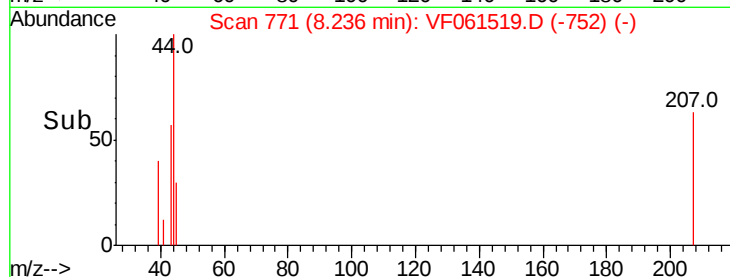
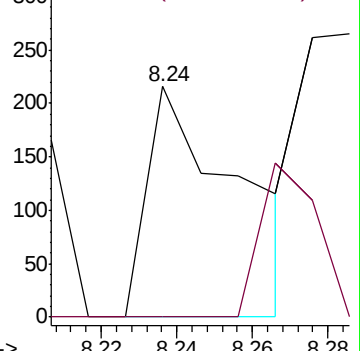
43 100

58 0.0 28.8 43.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 15.863 ug/l

RT: 7.62 min Scan# 709

Delta R.T. 0.01 min

Lab File: VF061519.D

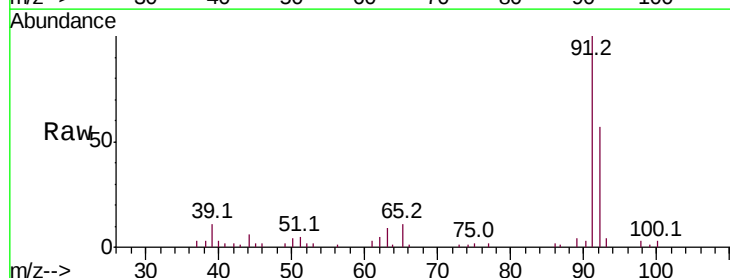
Acq: 25 Jan 2019 14:26

Tgt Ion: 92 Resp: 18850

Ion Ratio Lower Upper

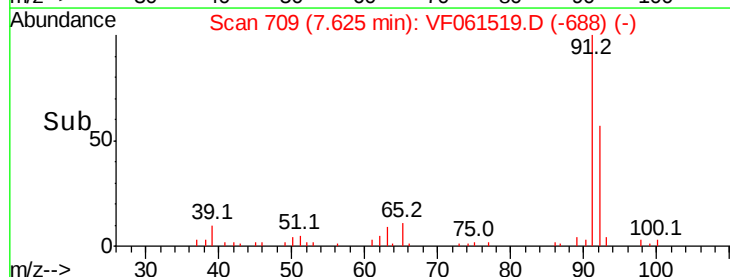
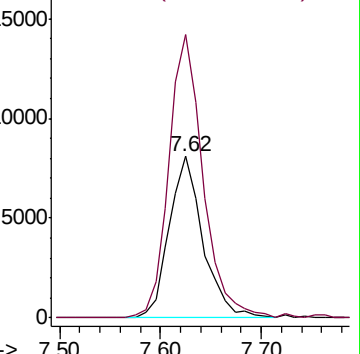
92 100

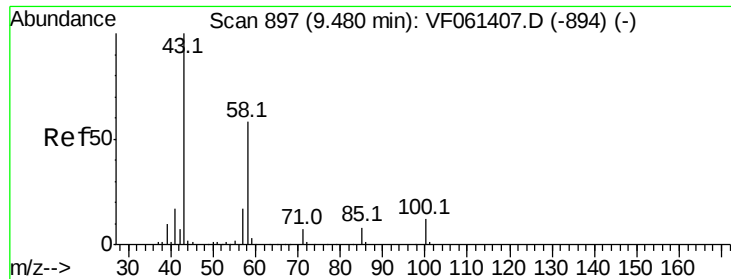
91 175.2 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

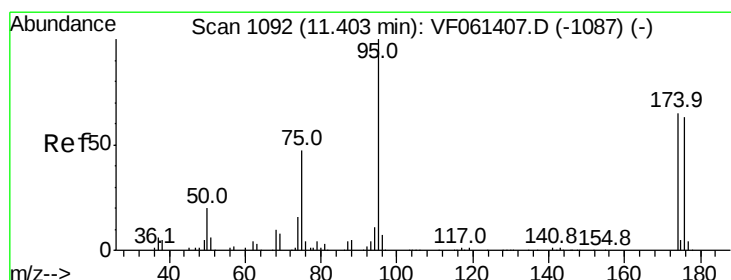
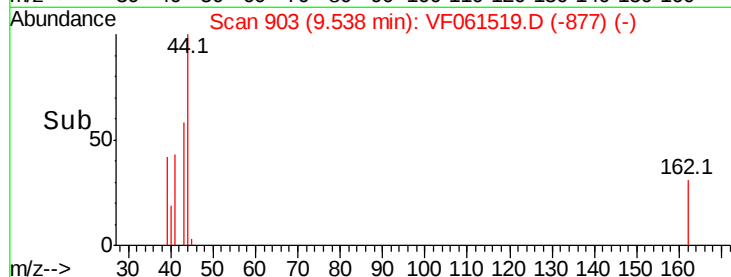
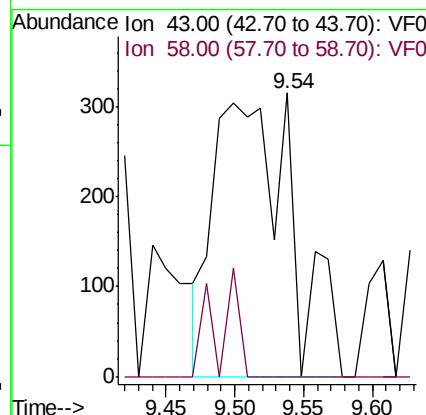
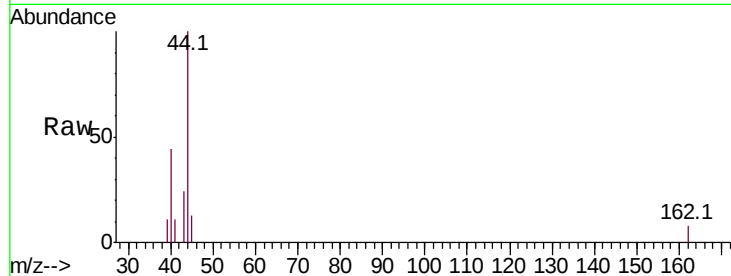




#59
2-Hexanone
Concen: 5.811 ug/l
RT: 9.54 min Scan# 903
Delta R.T. 0.06 min
Lab File: VF061519.D
Acq: 25 Jan 2019 14:26

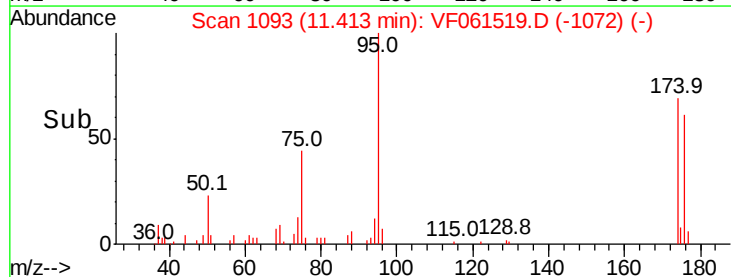
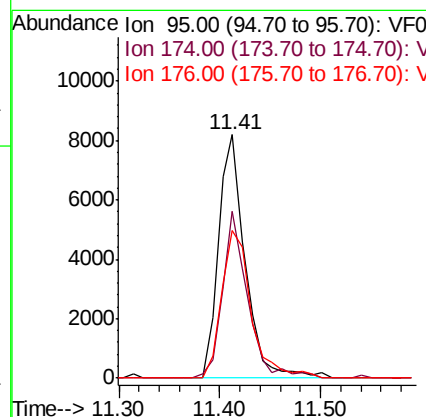
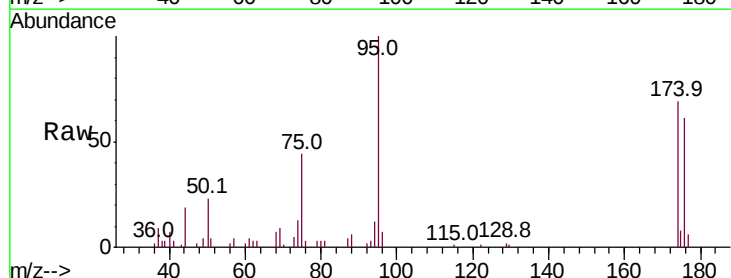
Instrument :
MSVOA_F
ClientSampled :

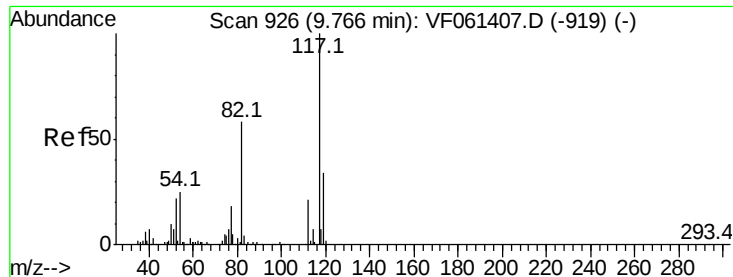
Tot Ion: 43 Resp: 1212
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.6#



#62
4-Bromofluorobenzene
Concen: 21.419 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.01 min
Lab File: VF061519.D
Acq: 25 Jan 2019 14:26

Tgt Ion: 95 Resp: 15132
Ion Ratio Lower Upper
95 100
174 68.5 0.0 130.4
176 60.5 0.0 126.2

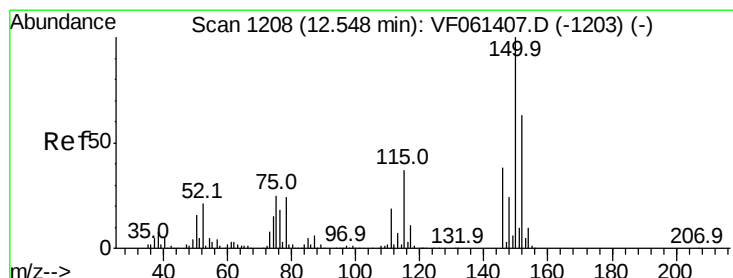
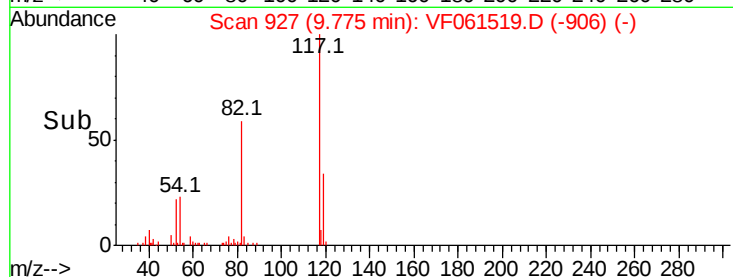
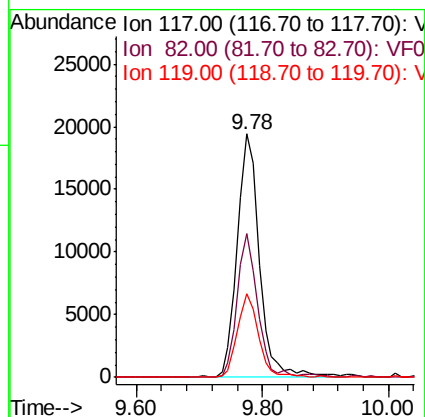
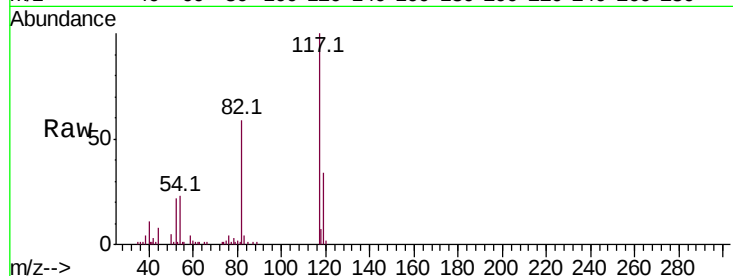




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.01 min
Lab File: VF061519.D
Acq: 25 Jan 2019 14:26

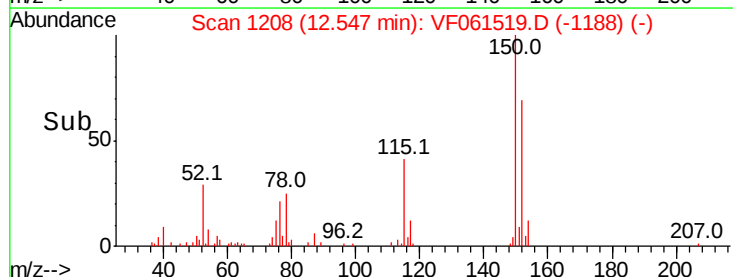
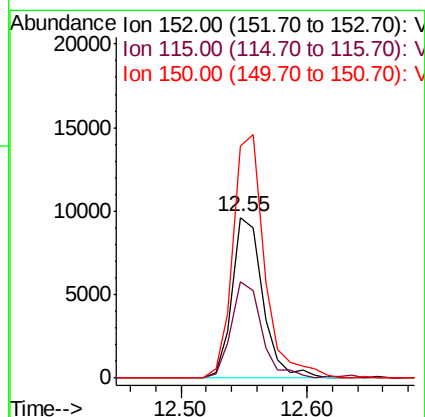
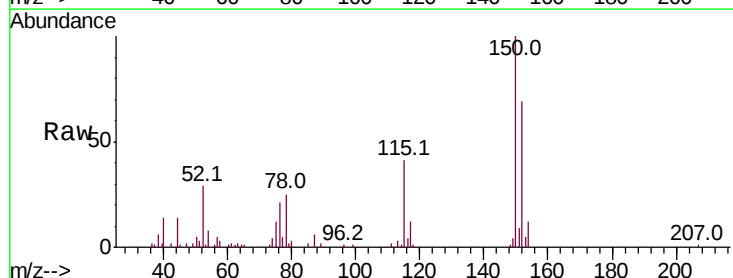
Instrument :
MSVOA_F
ClientSampleId :

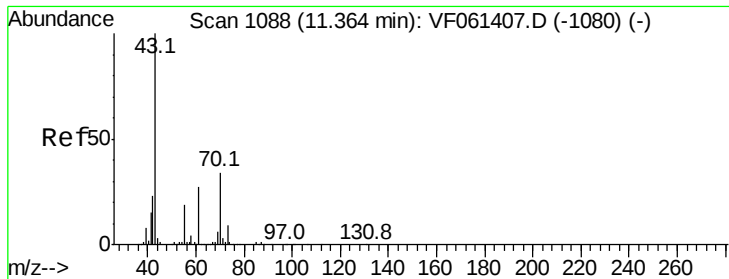
Tot Ion:117 Resp: 47169
Ion Ratio Lower Upper
117 100
82 58.8 46.4 69.6
119 34.1 27.2 40.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.00 min
Lab File: VF061519.D
Acq: 25 Jan 2019 14:26

Tgt Ion:152 Resp: 16142
Ion Ratio Lower Upper
152 100
115 59.7 30.0 90.0
150 144.9 0.0 321.4





#74

N-amvl acetate

Concen: 1.575 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :

MSVOA_F

ClientSampled :

Tot Ion: 43 Resp: 489

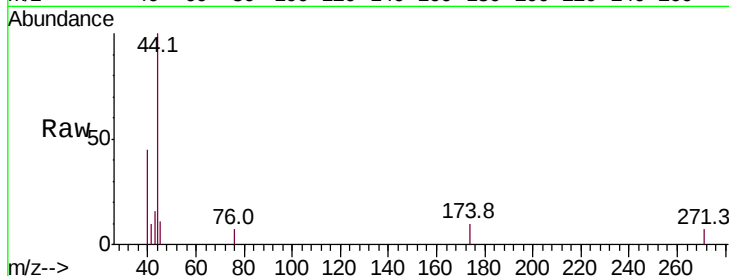
Ion Ratio Lower Upper

43 100

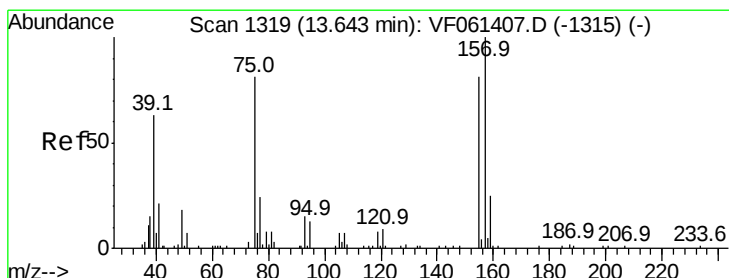
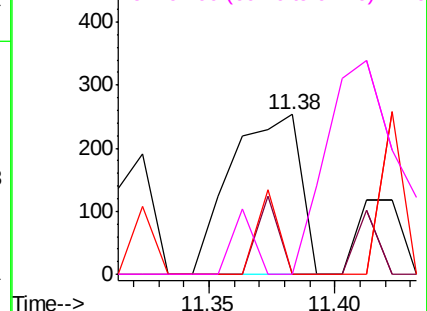
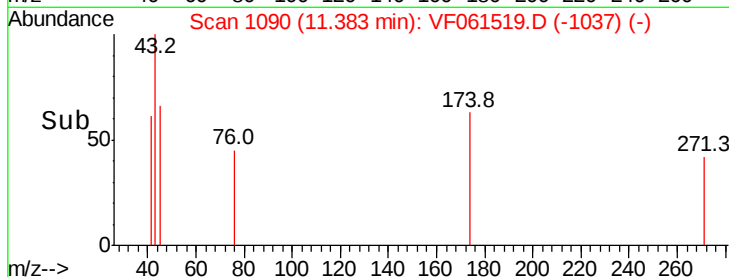
70 0.0 27.6 41.4#

55 0.0 15.4 23.2#

61 0.0 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



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.856 ug/l

RT: 13.49 min Scan# 1304

Delta R.T. -0.15 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

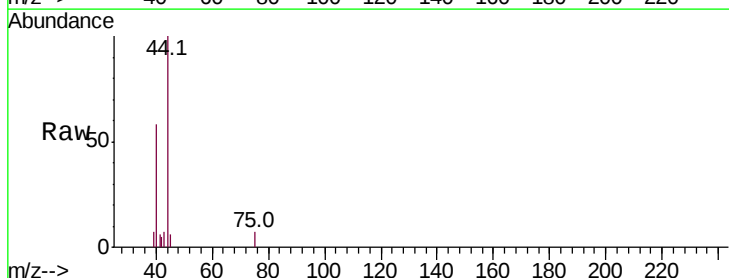
Tgt Ion: 75 Resp: 77

Ion Ratio Lower Upper

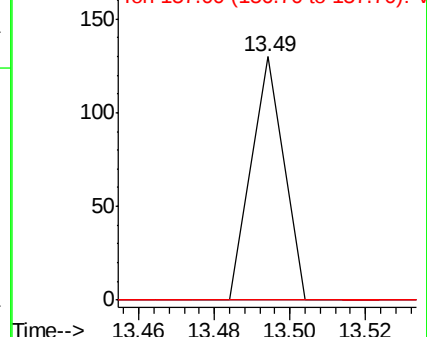
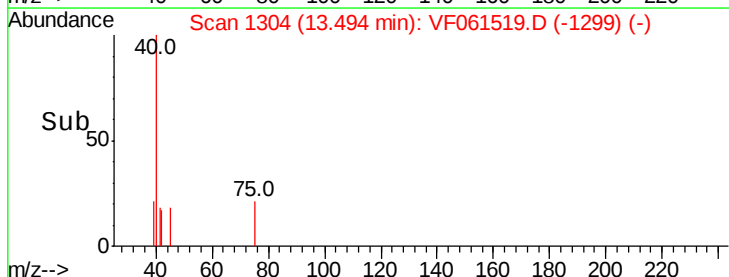
75 100

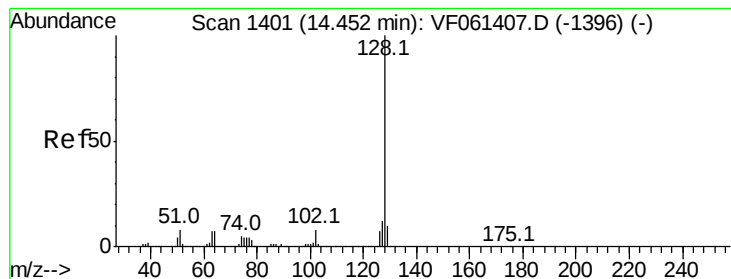
155 0.0 49.7 149.1#

157 0.0 61.4 184.1#



Abundance Ion 75.00 (74.70 to 75.70): VF0
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





#95

Naphthalene

Concen: 1.060 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. 0.01 min

Lab File: VF061519.D

Acq: 25 Jan 2019 14:26

Instrument :

MSVOA_F

ClientSampleId :

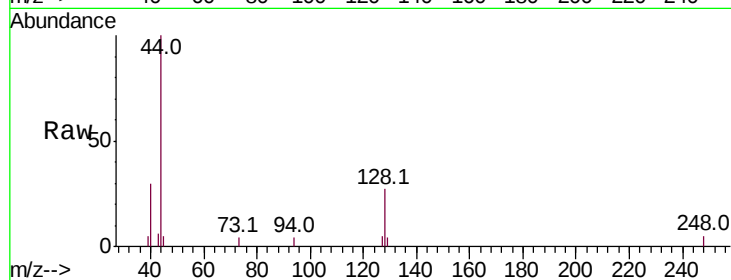
Tot Ion:128 Resp: 732

Ion Ratio Lower Upper

128 100

127 17.3 9.5 14.3#

129 16.5 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

