

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF021119\
 Data File : VF061589.D
 Acq On : 11 Feb 2019 16:41
 Operator : VA/AP
 Sample : K1453-15
 Misc : 7.46g/5mL/MSVOA-F/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Feb 12 03:27:12 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	186593	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.58	114	336771	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.76	117	315533	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.54	152	161918	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	104786	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
35) Dibromofluoromethane	4.10	113	118427	44.56	ug/l	0.00
Spiked Amount			Recovery	=	89.12%	
50) Toluene-d8	7.54	98	288465	39.62	ug/l	0.00
Spiked Amount			Recovery	=	79.24%	
62) 4-Bromofluorobenzene	11.40	95	135638	39.87	ug/l	0.00
Spiked Amount			Recovery	=	79.74%	

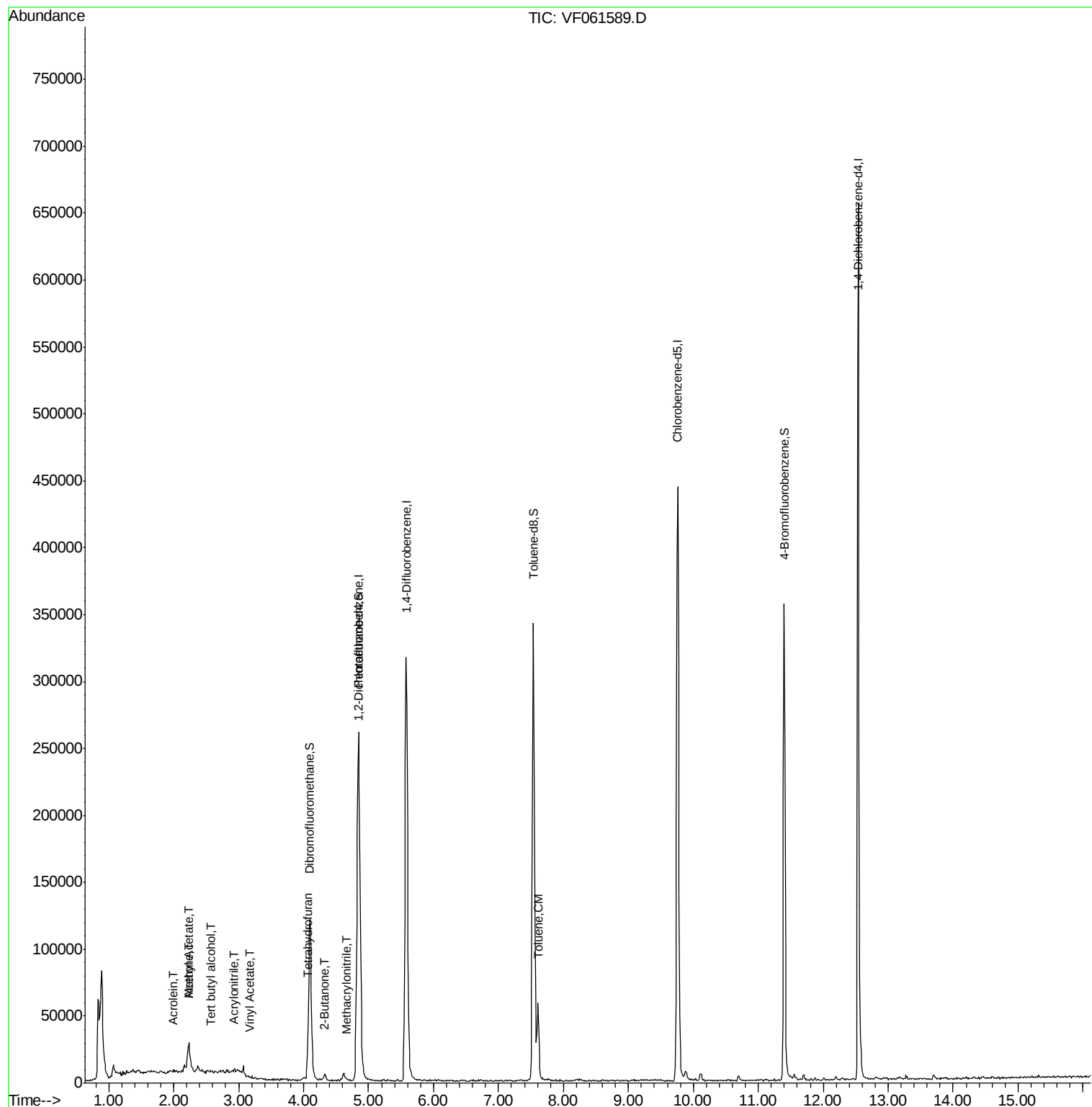
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	463	4.748	ug/l #	16
13) Acrolein	1.99	56	621	17.425	ug/l	100
14) Allyl chloride	2.08	41	403	Below Cal	#	41
15) Acrylonitrile	2.93	53	606	2.426	ug/l #	57
16) Acetone	2.23	43	31803	68.815	ug/l	97
18) Methyl Acetate	2.23	43	31803	34.699	ug/l #	61
20) Methylene Chloride	2.17	84	1455	Below Cal		98
23) Vinyl Acetate	3.18	43	251	3.289	ug/l #	78
25) 2-Butanone	4.33	43	9190	11.958	ug/l #	85
29) Tetrahydrofuran	4.06	42	799	2.414	ug/l #	61
41) Methacrylonitrile	4.66	41	844	1.016	ug/l #	61
49) 1,4-Dioxane	6.86	88	63	Below Cal	#	13
52) Toluene	7.61	92	29764	5.202	ug/l	93

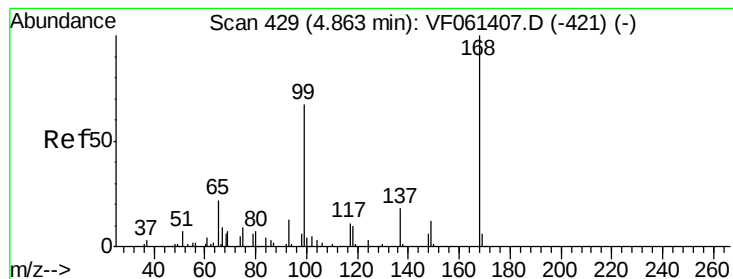
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.02 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

Instrument :

MSVOA_F

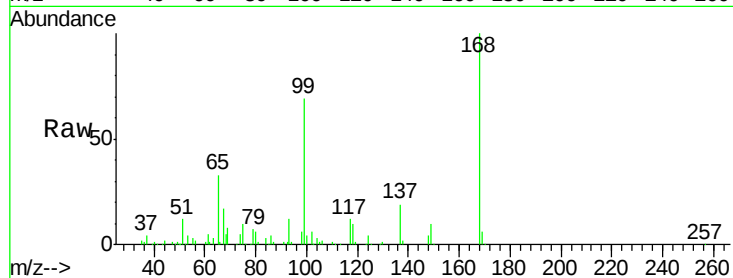
ClientSampleId :

Tot Ion:168 Resp: 186593

Ion Ratio Lower Upper

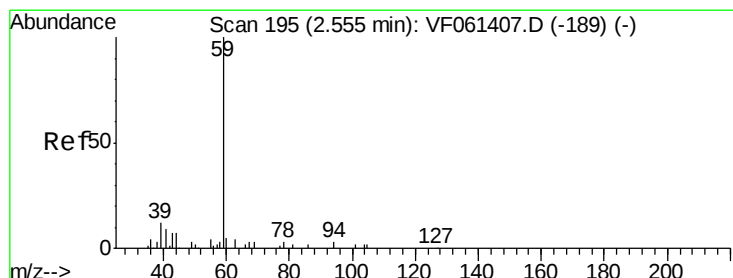
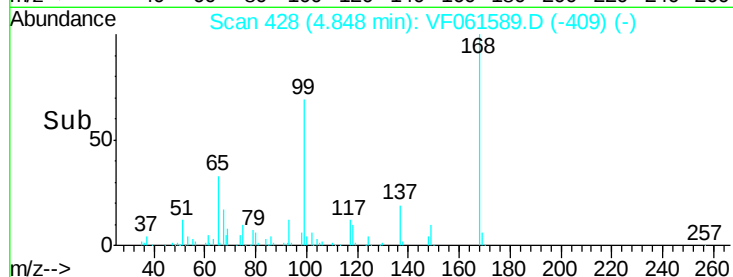
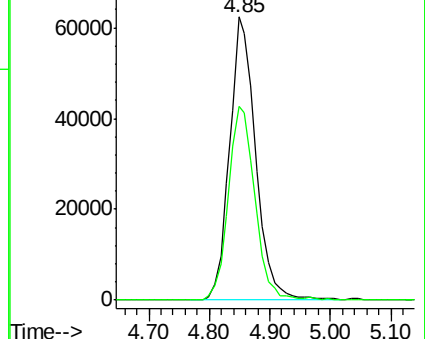
168 100

99 68.5 53.5 80.3



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#11

Tert butyl alcohol

Concen: 4.748 ug/l

RT: 2.56 min Scan# 196

Delta R.T. 0.00 min

Lab File: VF061589.D

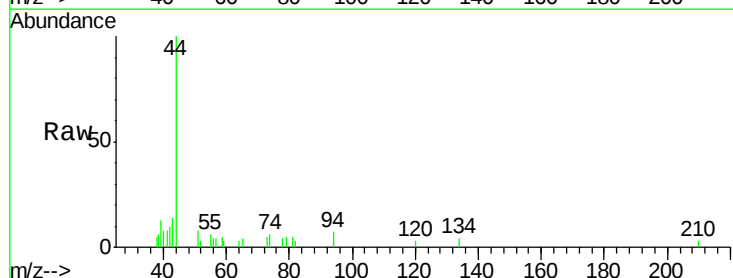
Acq: 11 Feb 2019 16:41

Tgt Ion: 59 Resp: 463

Ion Ratio Lower Upper

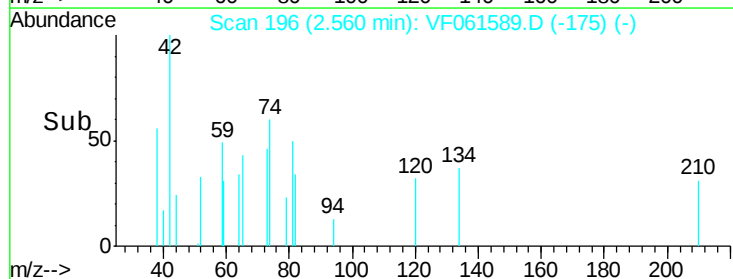
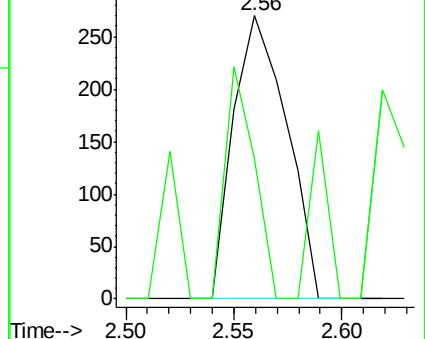
59 100

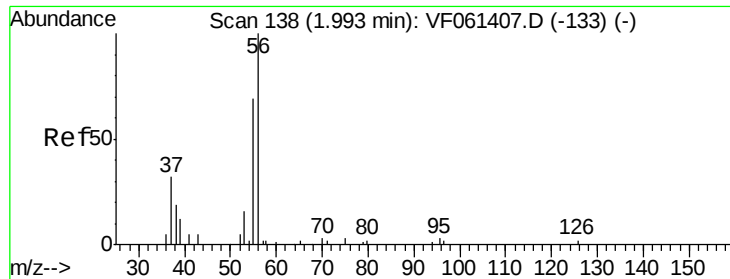
57 49.6 11.9 17.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0





#13

Acrolein

Concen: 17.425 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.00 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

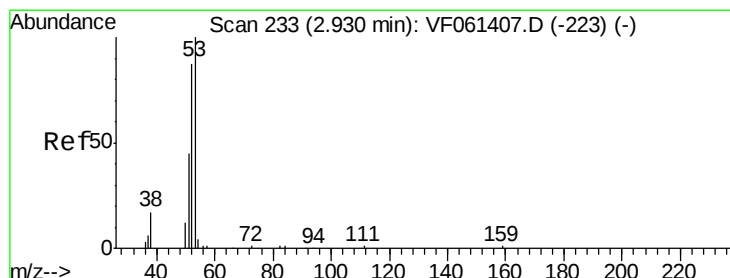
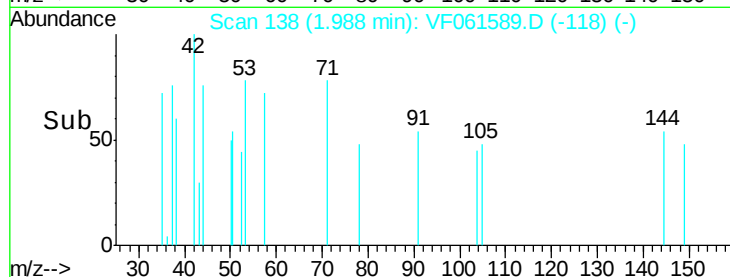
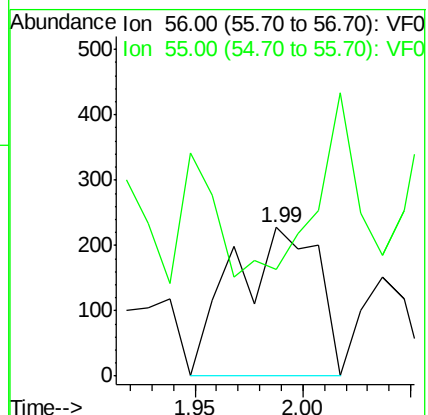
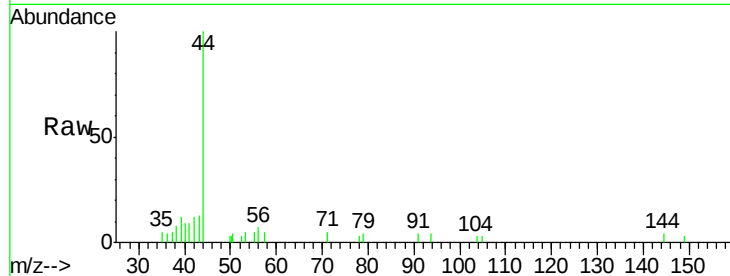
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 621

Ion Ratio Lower Upper

56 100

55 71.5 57.5 86.3



#15

Acrylonitrile

Concen: 2.426 ug/l

RT: 2.93 min Scan# 234

Delta R.T. 0.00 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

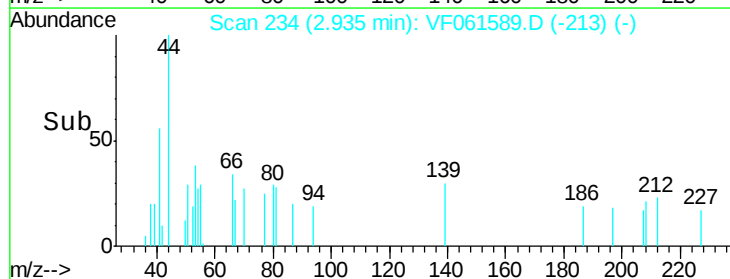
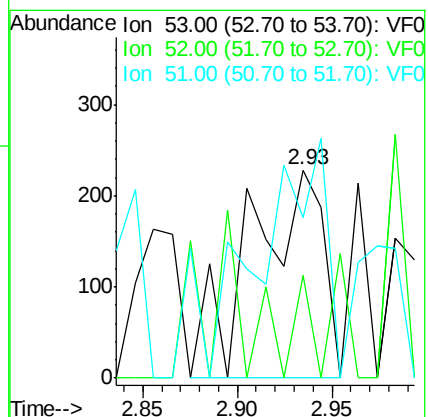
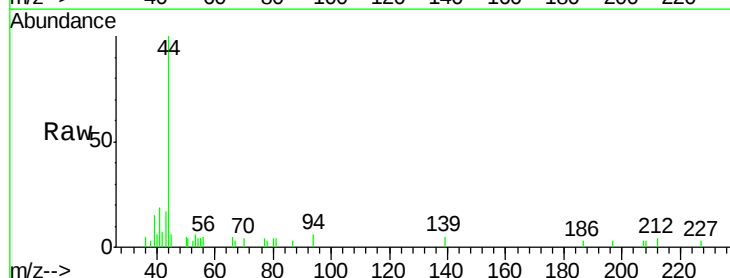
Tgt Ion: 53 Resp: 606

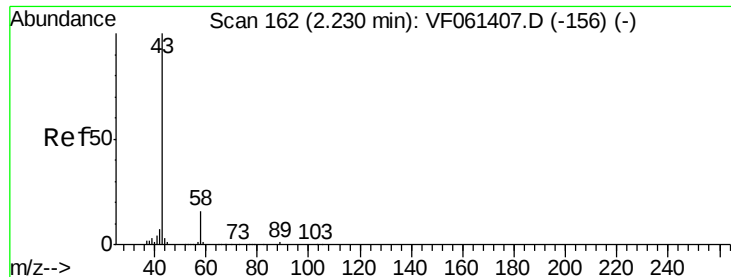
Ion Ratio Lower Upper

53 100

52 49.6 69.6 104.4#

51 77.2 36.8 55.2#





#16

Acetone

Concen: 68.815 ug/l

RT: 2.23 min Scan# 163

Delta R.T. 0.00 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

Instrument :

MSVOA_F

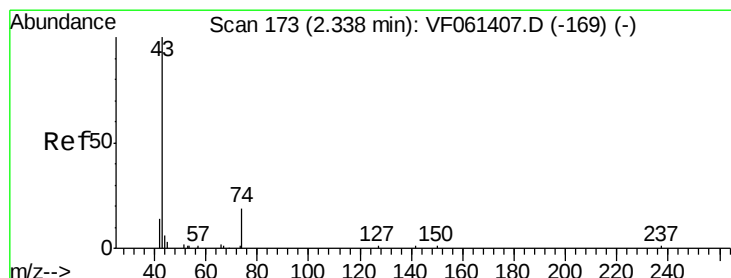
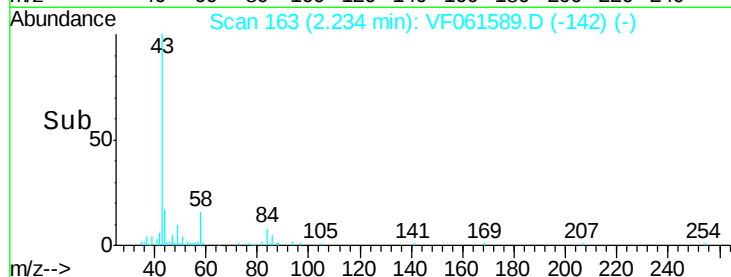
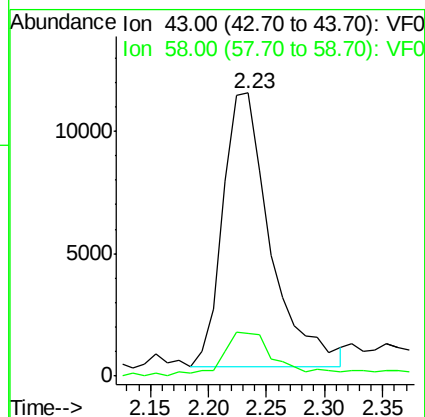
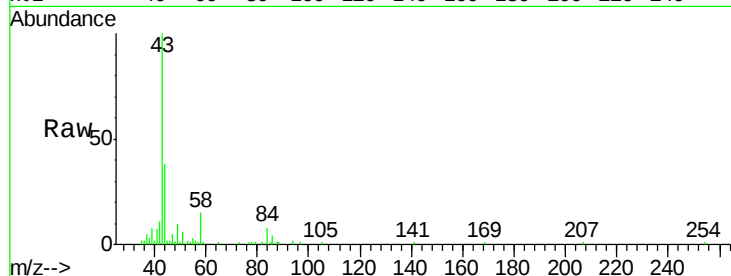
ClientSampleId :

Tot Ion: 43 Resp: 31803

Ion Ratio Lower Upper

43 100

58 15.3 13.3 19.9



#18

Methyl Acetate

Concen: 34.699 ug/l

RT: 2.23 min Scan# 163

Delta R.T. -0.10 min

Lab File: VF061589.D

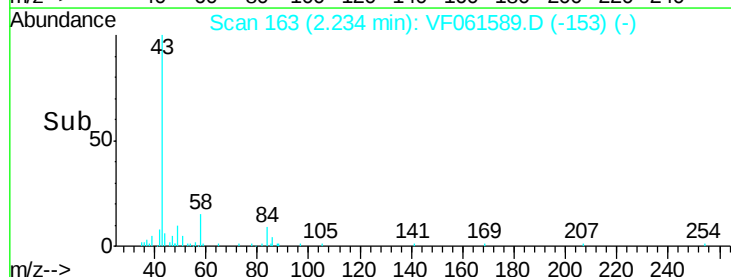
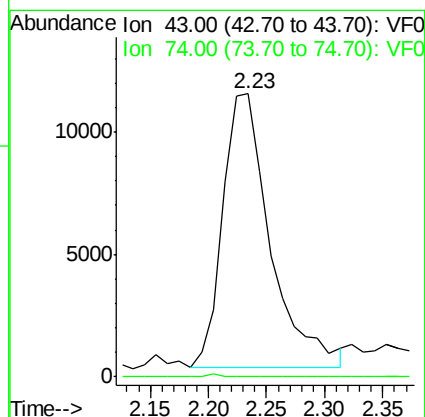
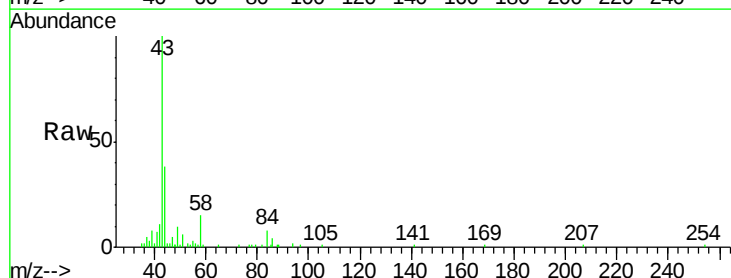
Acq: 11 Feb 2019 16:41

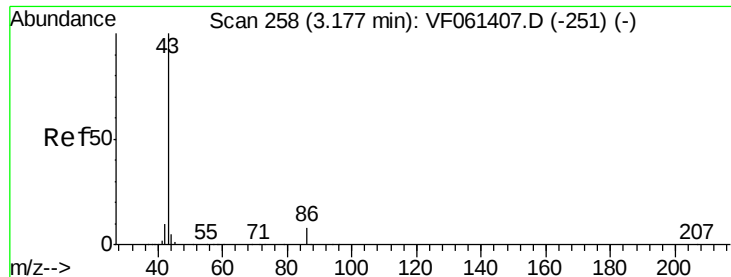
Tgt Ion: 43 Resp: 31803

Ion Ratio Lower Upper

43 100

74 0.0 13.4 20.0#





#23

Vinyl Acetate

Concen: 3.289 ug/l

RT: 3.18 min Scan# 259

Delta R.T. 0.01 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

Instrument :

MSVOA_F

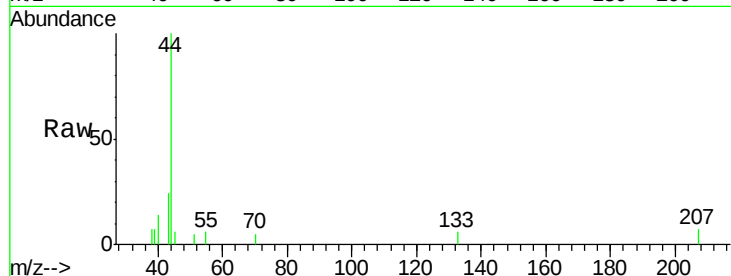
ClientSampled :

Tot Ion: 43 Resp: 251

Ion Ratio Lower Upper

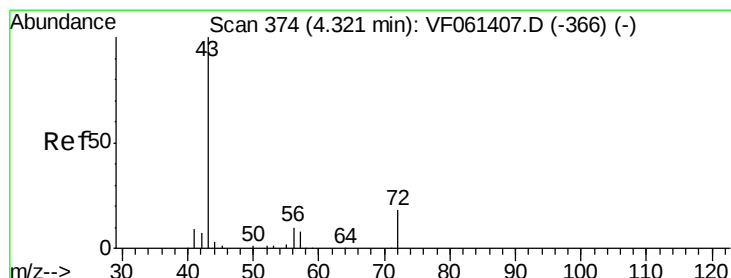
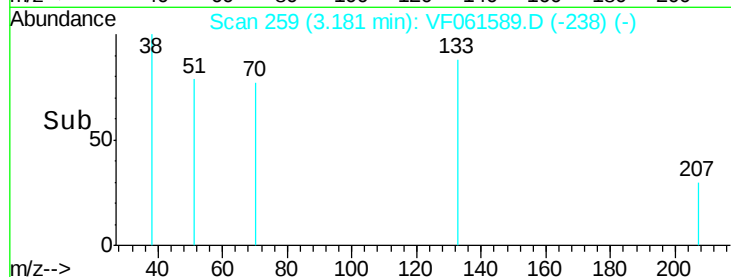
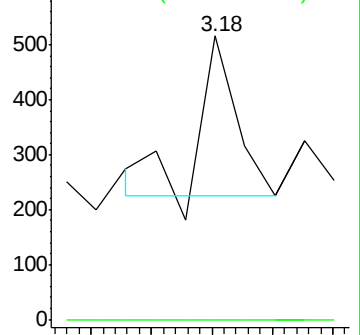
43 100

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: 11.958 ug/l

RT: 4.33 min Scan# 375

Delta R.T. 0.00 min

Lab File: VF061589.D

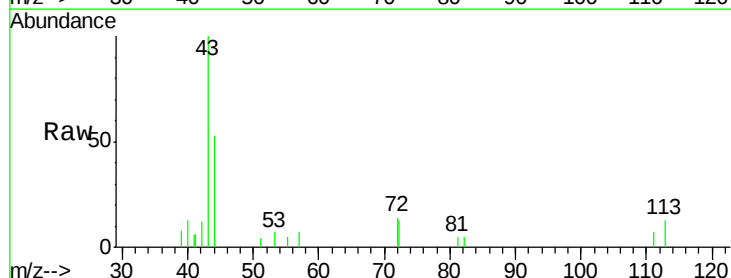
Acq: 11 Feb 2019 16:41

Tgt Ion: 43 Resp: 9190

Ion Ratio Lower Upper

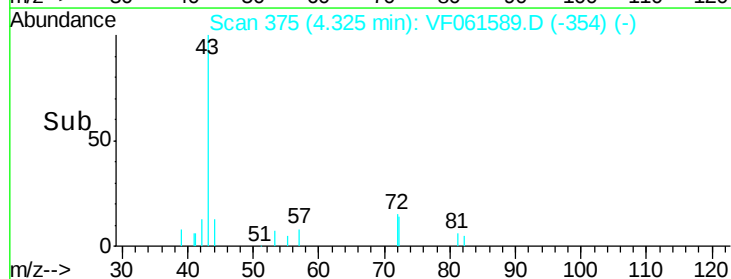
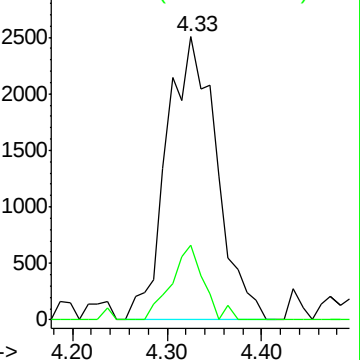
43 100

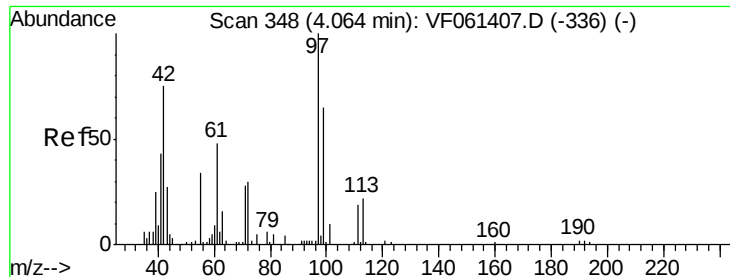
72 26.6 15.8 23.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

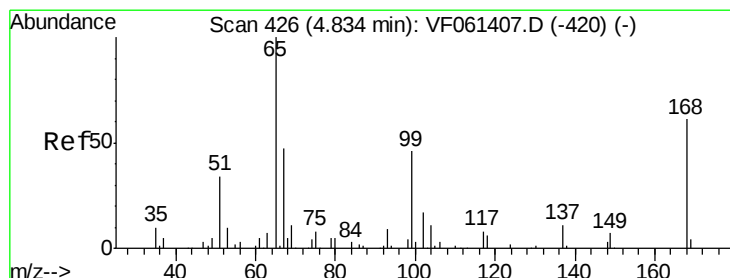
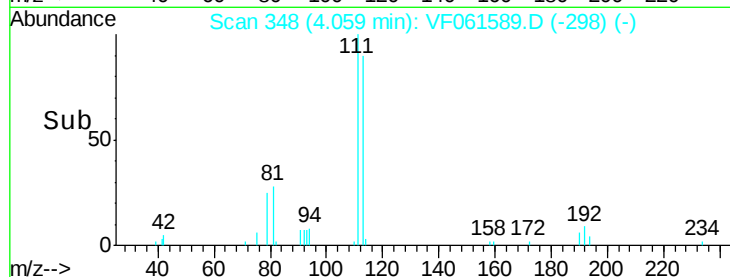
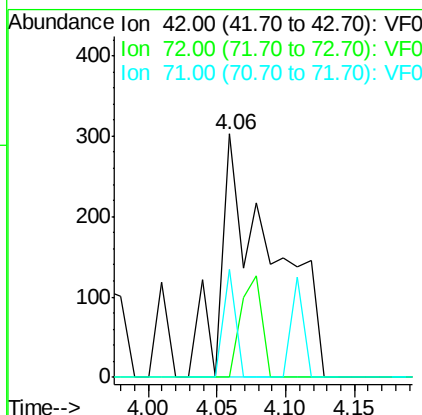
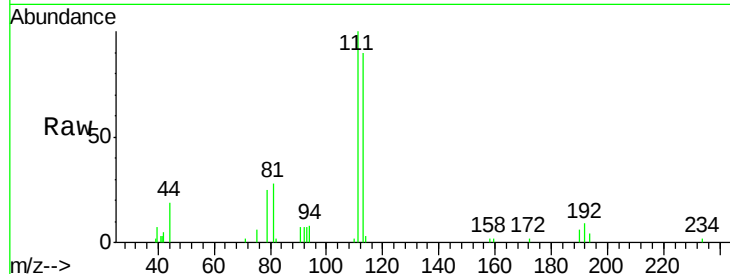




#29
Tetrahydrofuran
Concen: 2.414 ug/l
RT: 4.06 min Scan# 348
Delta R.T. -0.01 min
Lab File: VF061589.D
Acq: 11 Feb 2019 16:41

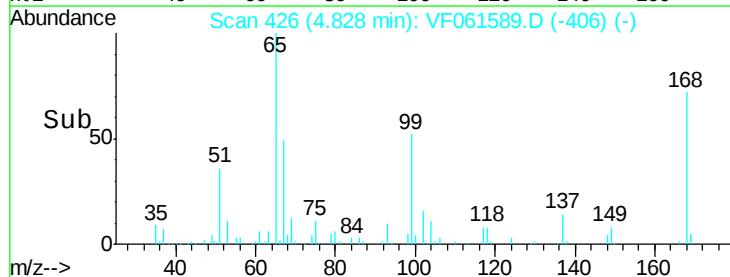
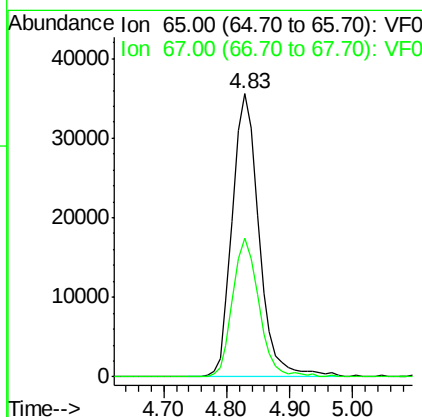
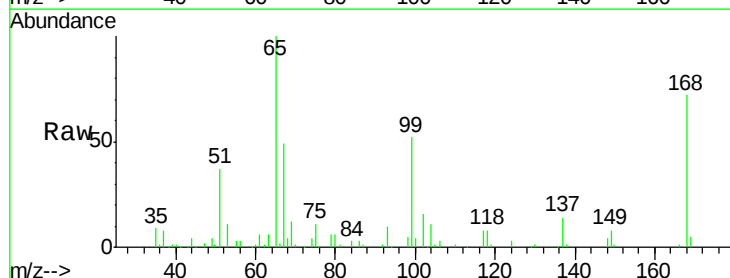
Instrument :
MSVOA_F
ClientSampleId :

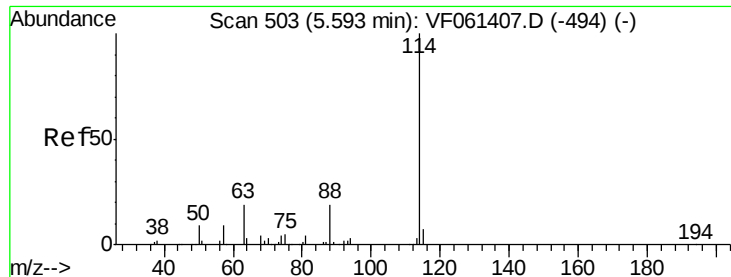
Tot Ion: 42 Resp: 799
Ion Ratio Lower Upper
42 100
72 16.8 28.9 43.3#
71 10.0 29.6 44.4#



#33
1,2-Dichloroethane-d4
Concen: 45.485 ug/l
RT: 4.83 min Scan# 426
Delta R.T. -0.01 min
Lab File: VF061589.D
Acq: 11 Feb 2019 16:41

Tgt Ion: 65 Resp: 104786
Ion Ratio Lower Upper
65 100
67 48.8 0.0 99.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.58 min Scan# 502

Delta R.T. -0.02 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

Instrument :

MSVOA_F

ClientSampleId :

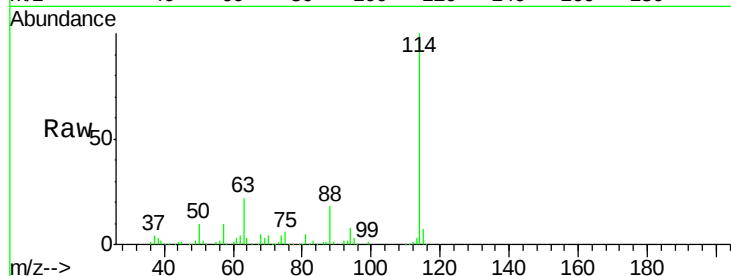
Tot Ion:114 Resp: 336771

Ion Ratio Lower Upper

114 100

63 22.3 0.0 39.0

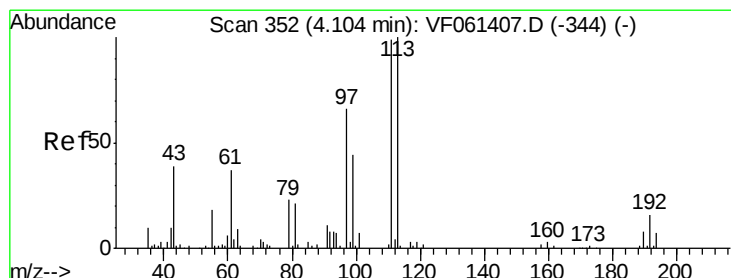
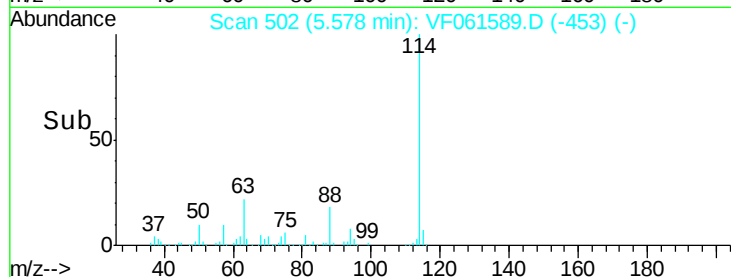
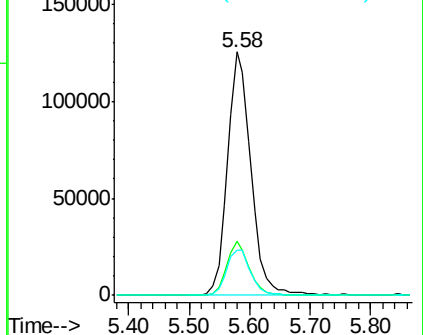
88 18.4 0.0 37.4



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: 44.565 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

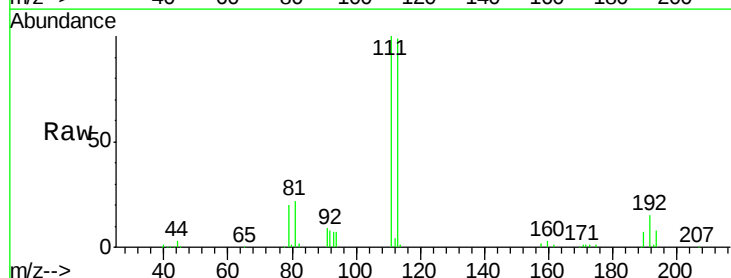
Tgt Ion:113 Resp: 118427

Ion Ratio Lower Upper

113 100

111 100.8 79.4 119.0

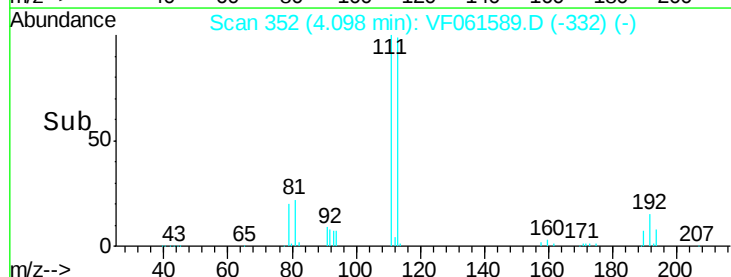
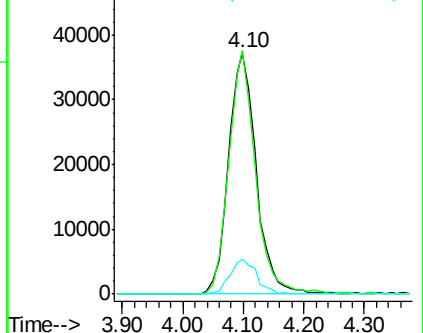
192 14.7 12.4 18.6

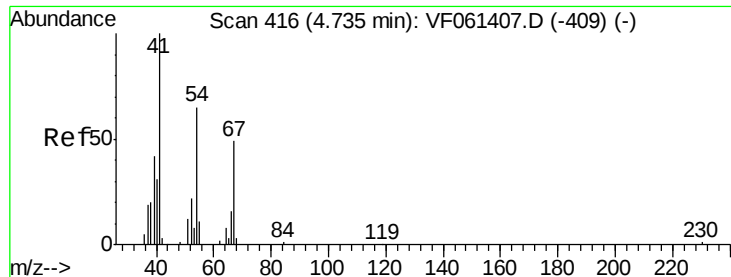


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

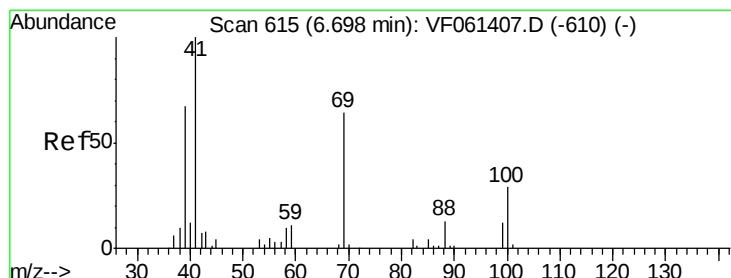
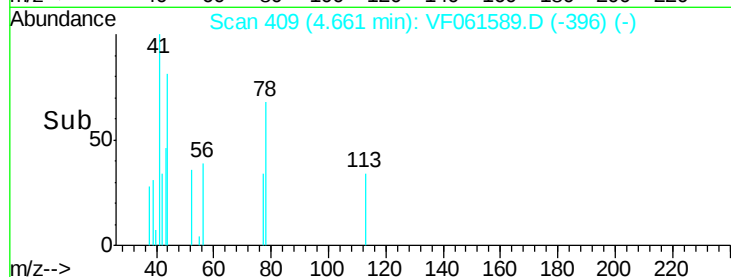
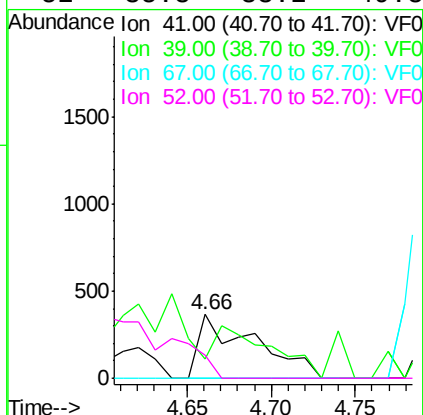
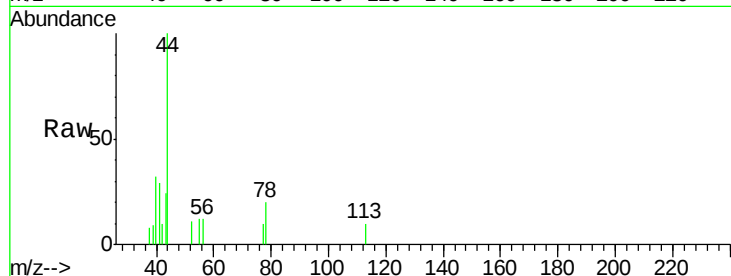




#41
Methacrylonitrile
Concen: 1.016 ug/l
RT: 4.66 min Scan# 409
Delta R.T. -0.07 min
Lab File: VF061589.D
Acq: 11 Feb 2019 16:41

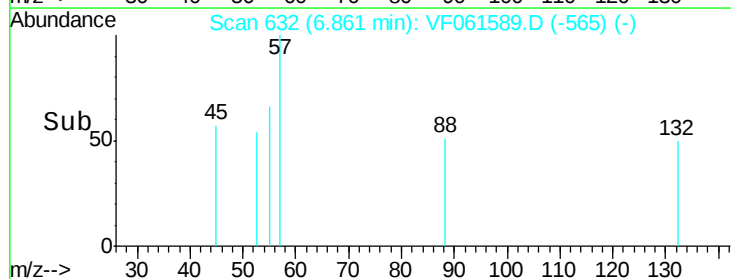
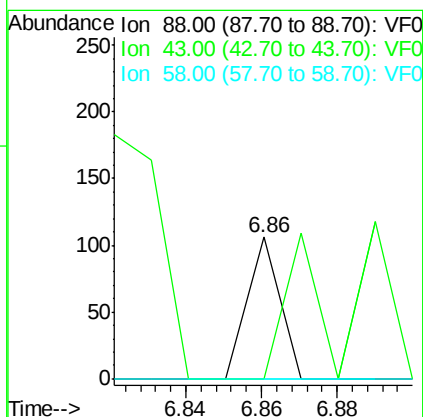
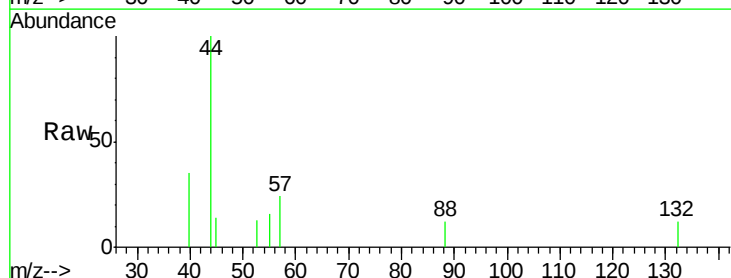
Instrument :
MSVOA_F
ClientSampleId :

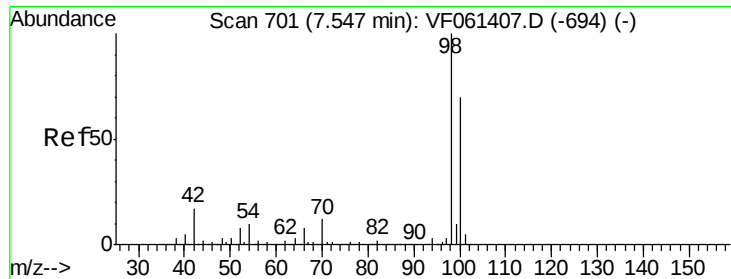
Tot Ion:	41	Resp:	844
Ion	Ratio	Lower	Upper
41	100		
39	30.6	43.1	64.7#
67	0.0	38.8	58.2#
52	35.8	33.2	49.8



#49
1,4-Dioxane
Concen: Below Cal
RT: 6.86 min Scan# 632
Delta R.T. 0.16 min
Lab File: VF061589.D
Acq: 11 Feb 2019 16:41

Tgt Ion:	88	Resp:	63
Ion	Ratio	Lower	Upper
88	100		
43	0.0	55.5	83.3#
58	0.0	59.9	89.9#





#50

Toluene-d8

Concen: 39.620 ug/l

RT: 7.54 min Scan# 701

Delta R.T. -0.01 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

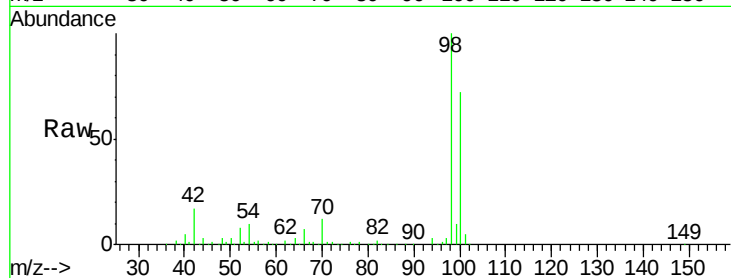
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 288465

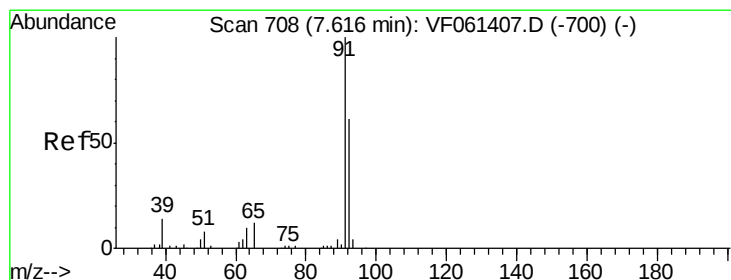
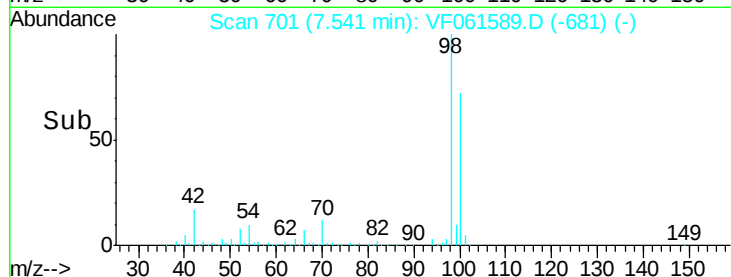
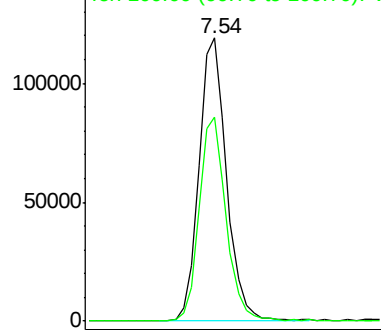
Ion Ratio Lower Upper

98 100

100 71.9 55.6 83.4



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



#52

Toluene

Concen: 5.202 ug/l

RT: 7.61 min Scan# 708

Delta R.T. -0.01 min

Lab File: VF061589.D

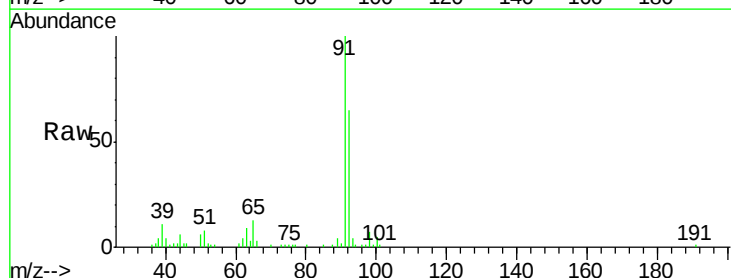
Acq: 11 Feb 2019 16:41

Tgt Ion: 92 Resp: 29764

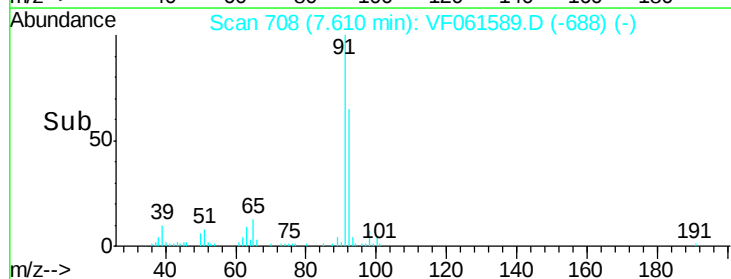
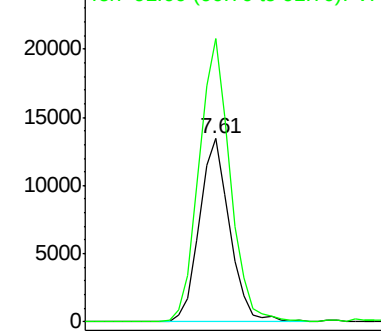
Ion Ratio Lower Upper

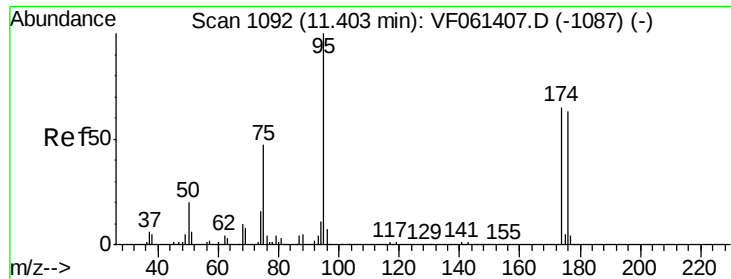
92 100

91 154.4 131.2 196.8



Abundance Ion 92.00 (91.70 to 92.70): VF0
Ion 91.00 (90.70 to 91.70): VF0





#62

4-Bromofluorobenzene

Concen: 39.872 ug/l

RT: 11.40 min Scan# 1092

Delta R.T. -0.01 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

Instrument :

MSVOA_F

ClientSampled :

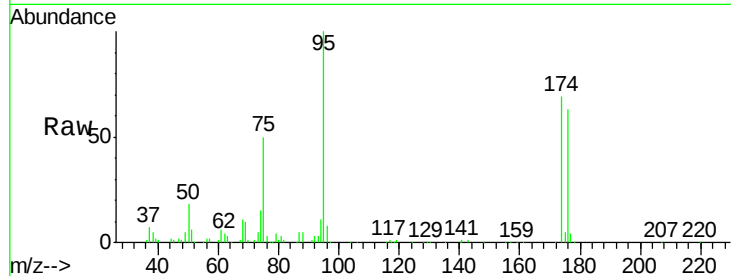
Tot Ion: 95 Resp: 135638

Ion Ratio Lower Upper

95 100

174 69.2 0.0 130.4

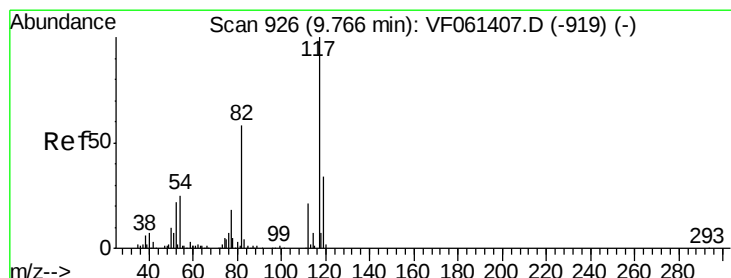
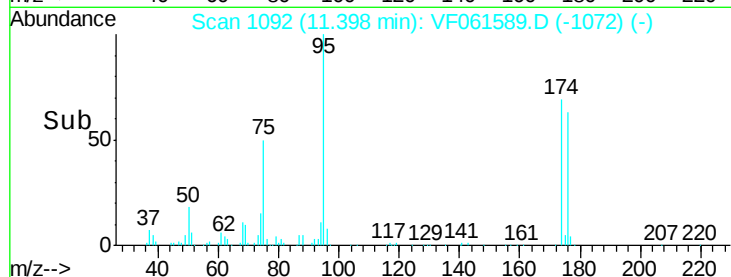
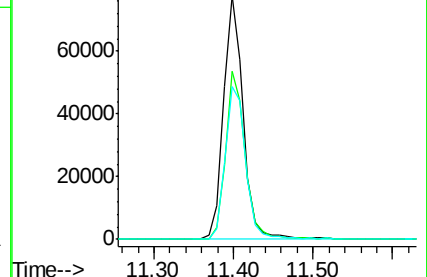
176 62.9 0.0 126.2



Abundance Ion 95.00 (94.70 to 95.70): VF061407.D (-1087) (-)

Ion 174.00 (173.70 to 174.70): VF061407.D (-1087) (-)

Ion 176.00 (175.70 to 176.70): VF061407.D (-1087) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.76 min Scan# 926

Delta R.T. -0.01 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

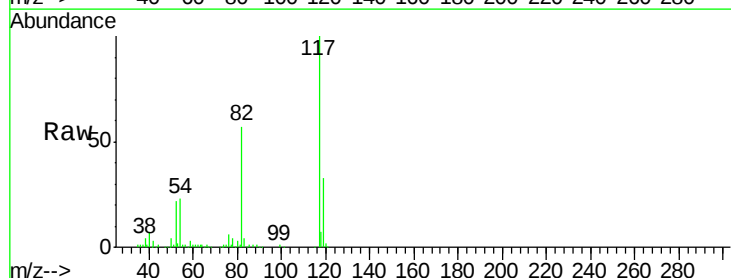
Tgt Ion: 117 Resp: 315533

Ion Ratio Lower Upper

117 100

82 56.7 46.4 69.6

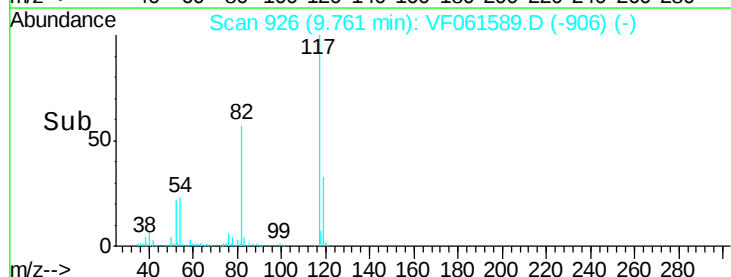
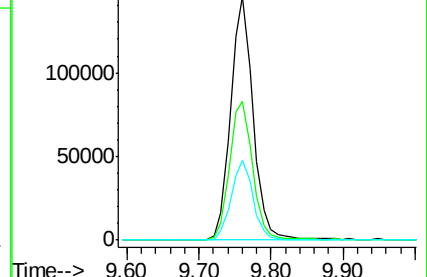
119 32.7 27.2 40.8

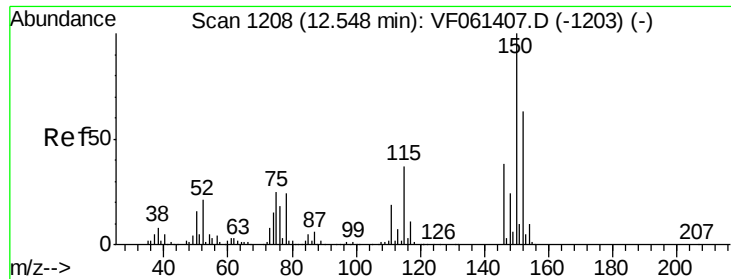


Abundance Ion 117.00 (116.70 to 117.70): VF061407.D (-919) (-)

Ion 82.00 (81.70 to 82.70): VF061407.D (-919) (-)

Ion 119.00 (118.70 to 119.70): VF061407.D (-919) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.54 min Scan# 1208

Delta R.T. -0.01 min

Lab File: VF061589.D

Acq: 11 Feb 2019 16:41

Instrument :

MSVOA_F

ClientSampleId :

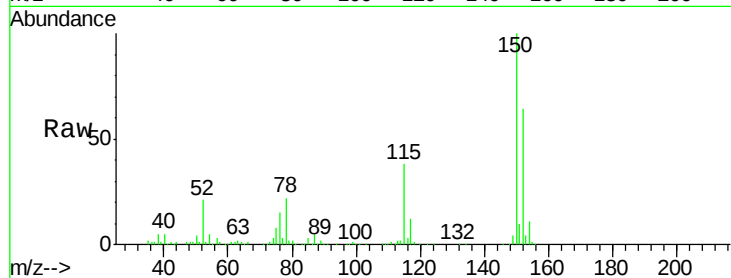
Tot Ion:152 Resp: 161918

Ion Ratio Lower Upper

152 100

115 59.3 30.0 90.0

150 157.1 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

