

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112018\
 Data File : VF060813.D
 Acq On : 20 Nov 2018 20:08
 Operator : VA/AP
 Sample : J5952-06RE
 Misc : 4.73u/5mL/MSVOA-F/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 21 02:50:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	206508	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.60	114	354665	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.78	117	285611	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	143300	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	87238	37.04	ug/l	0.00
Spiked Amount			Recovery	=	74.08%	
35) Dibromofluoromethane	4.11	113	108390	40.66	ug/l	-0.02
Spiked Amount			Recovery	=	81.32%	
50) Toluene-d8	7.56	98	260029	37.06	ug/l	-0.01
Spiked Amount			Recovery	=	74.12%	
62) 4-Bromofluorobenzene	11.41	95	118500	36.47	ug/l	0.00
Spiked Amount			Recovery	=	72.94%	

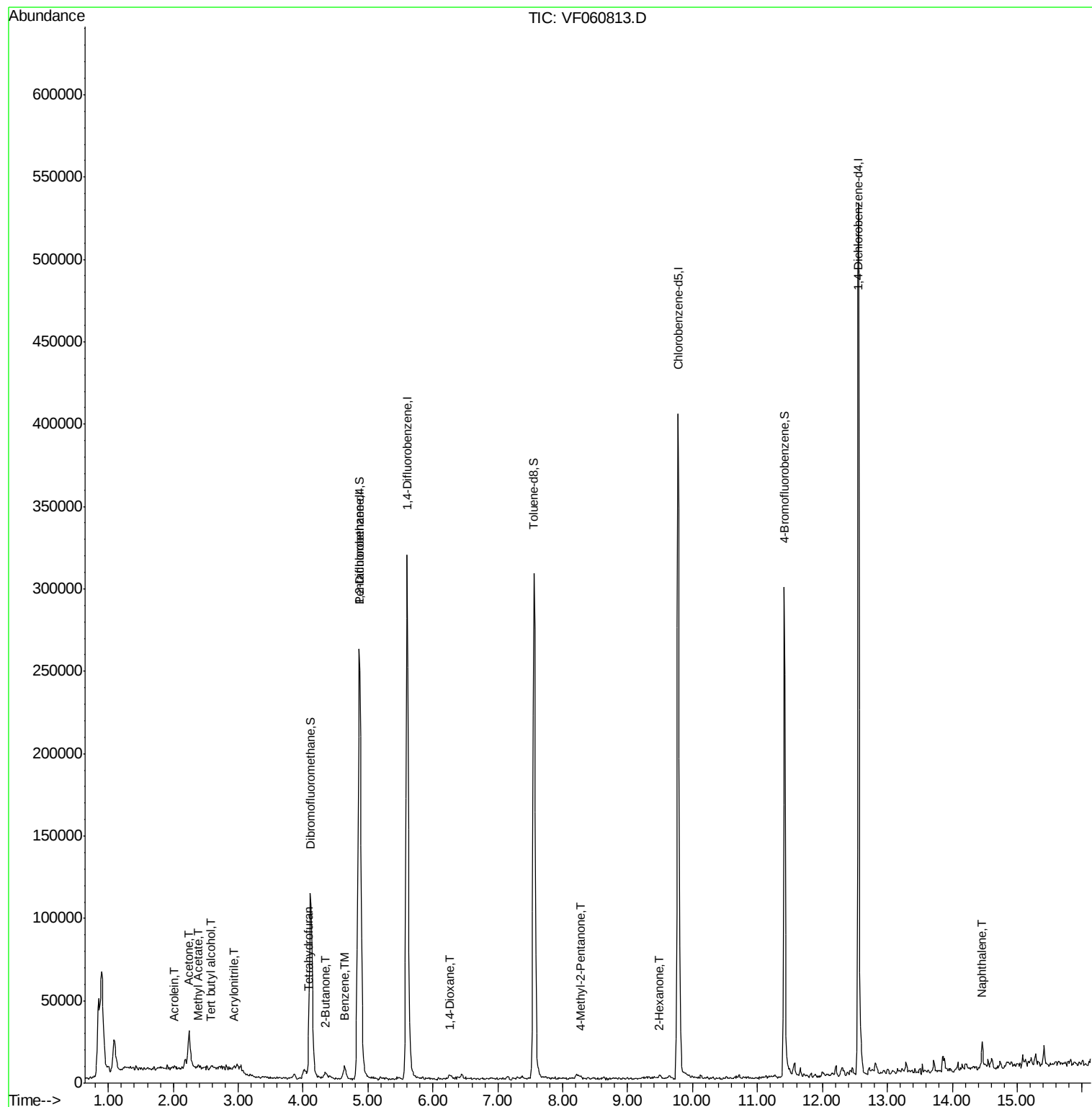
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.57	59	191	1.782	ug/l #	1
13) Acrolein	2.00	56	1127	11.498	ug/l #	12
15) Acrylonitrile	2.95	53	611	2.675	ug/l #	74
16) Acetone	2.24	43	30297	60.177	ug/l #	89
18) Methyl Acetate	2.38	43	1569	1.898	ug/l #	64
20) Methylene Chloride	2.19	84	2674	Below Cal	#	77
25) 2-Butanone	4.34	43	9664	11.670	ug/l	94
29) Tetrahydrofuran	4.07	42	590	1.727	ug/l #	74
40) Benzene	4.64	78	9782	1.067	ug/l #	77
41) Methacrylonitrile	4.75	41	225	Below Cal	#	21
49) 1,4-Dioxane	6.25	88	65	5.179	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	2187	1.491	ug/l	95
59) 2-Hexanone	9.50	43	2951	2.863	ug/l	100
95) Naphthalene	14.46	128	8597	1.457	ug/l	97

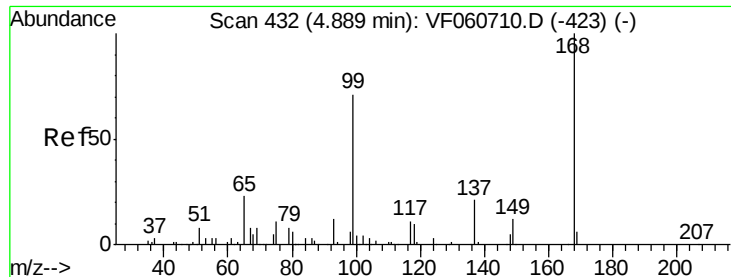
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.02 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

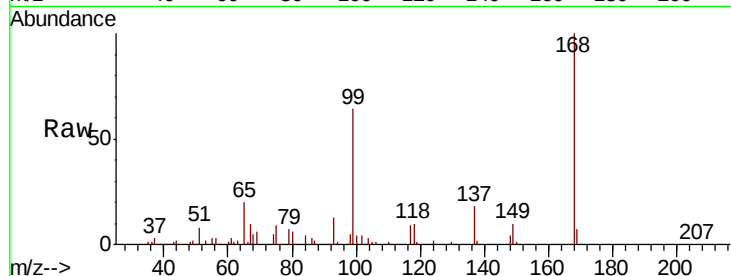
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 206508

Ion Ratio Lower Upper

168 100

99 63.7 57.2 85.8



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

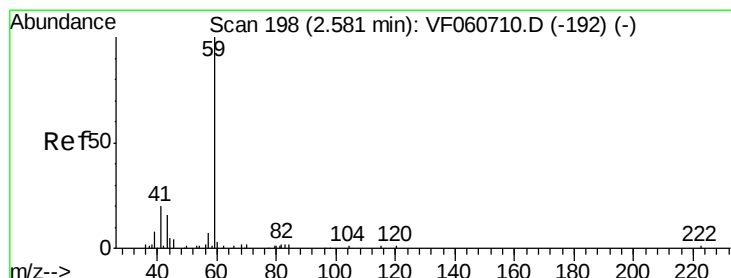
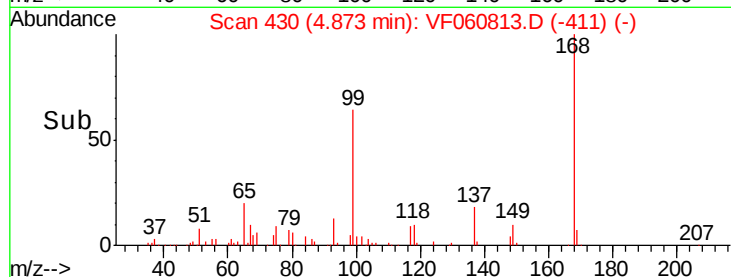
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 1.782 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF060813.D

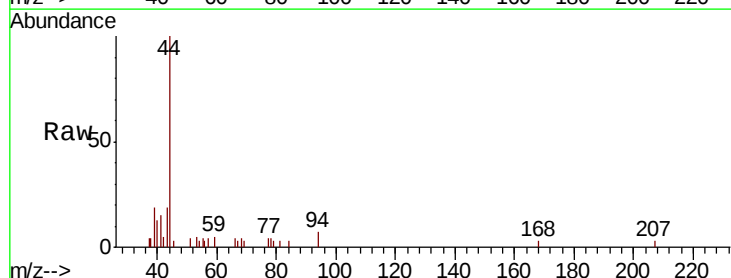
Acq: 20 Nov 2018 20:08

Tgt Ion: 59 Resp: 191

Ion Ratio Lower Upper

59 100

57 74.5 10.5 15.7#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.57

300

250

200

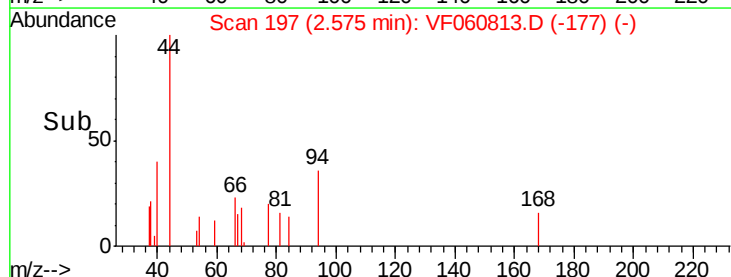
150

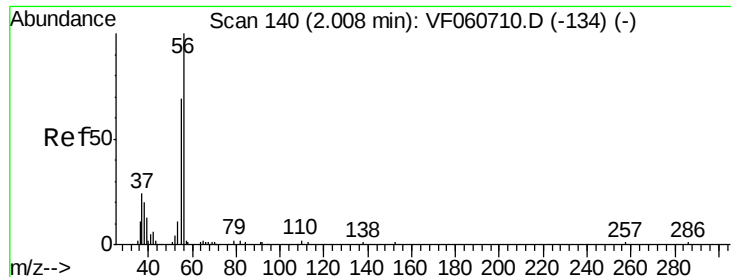
100

50

0

Time--> 2.54 2.56 2.58 2.60

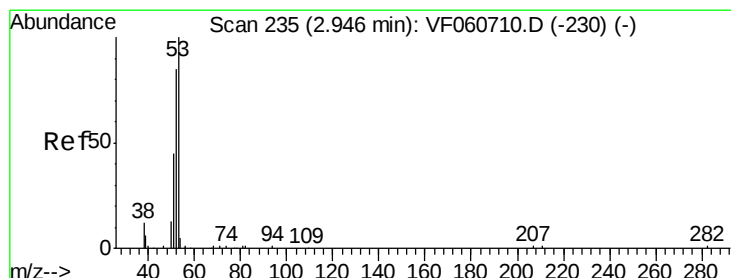
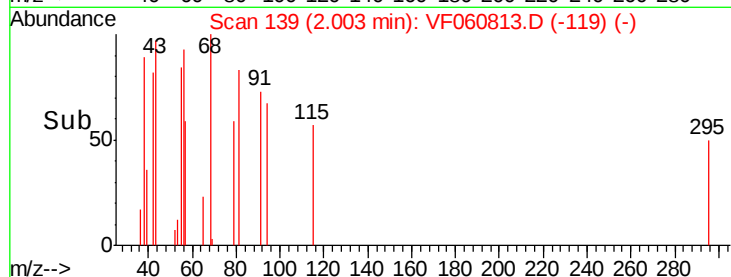
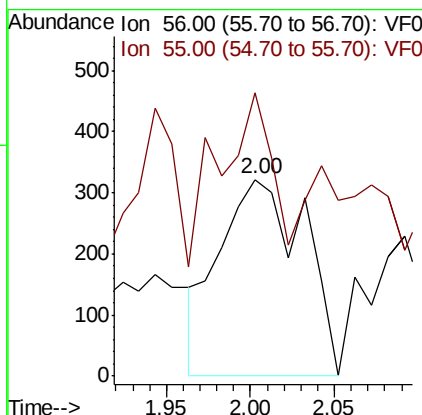
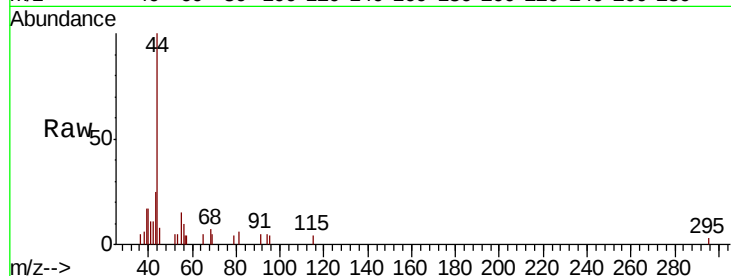




#13
Acrolein
Concen: 11.498 ug/l
RT: 2.00 min Scan# 139
Delta R.T. -0.01 min
Lab File: VF060813.D
Acq: 20 Nov 2018 20:08

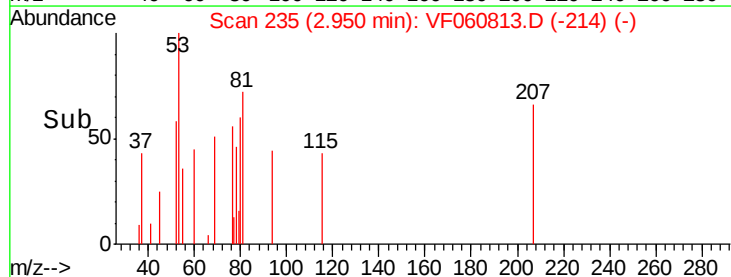
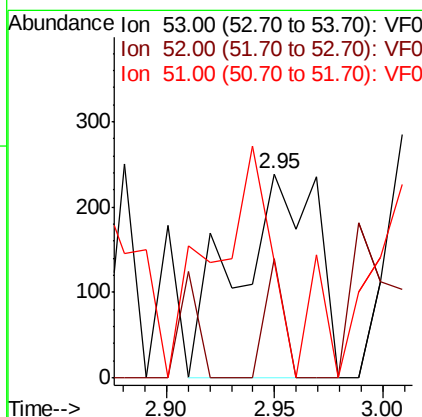
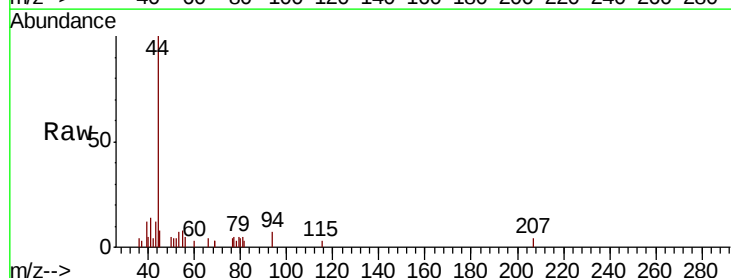
Instrument :
MSVOA_F
ClientSampleId :

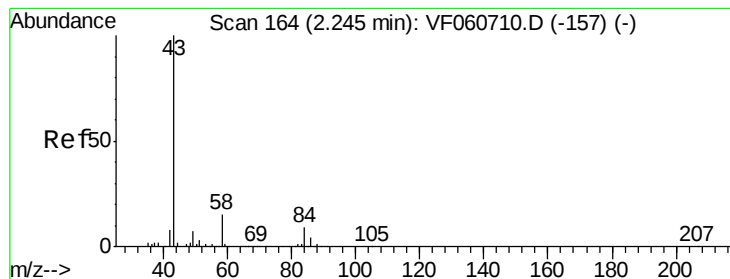
Tot Ion: 56 Resp: 1127
Ion Ratio Lower Upper
56 100
55 143.8 56.6 85.0#



#15
Acrylonitrile
Concen: 2.675 ug/l
RT: 2.95 min Scan# 235
Delta R.T. 0.00 min
Lab File: VF060813.D
Acq: 20 Nov 2018 20:08

Tgt Ion: 53 Resp: 611
Ion Ratio Lower Upper
53 100
52 58.2 68.8 103.2#
51 57.3 36.7 55.1#





#16

Acetone

Concen: 60.177 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.01 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

Instrument :

MSVOA_F

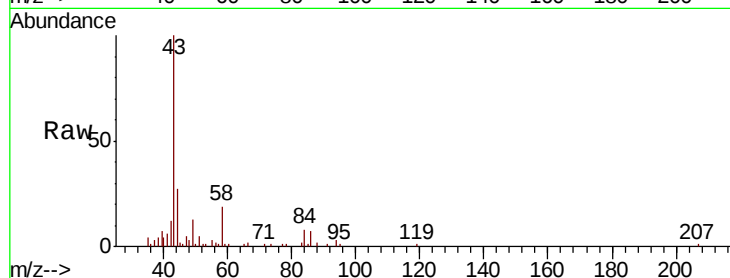
ClientSampleId :

Tot Ion: 43 Resp: 30297

Ion Ratio Lower Upper

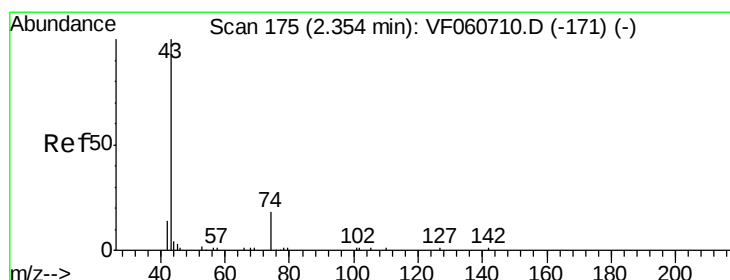
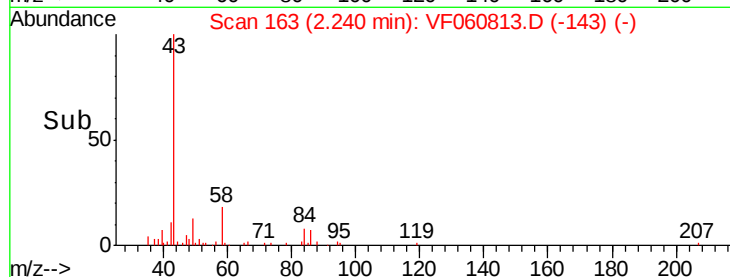
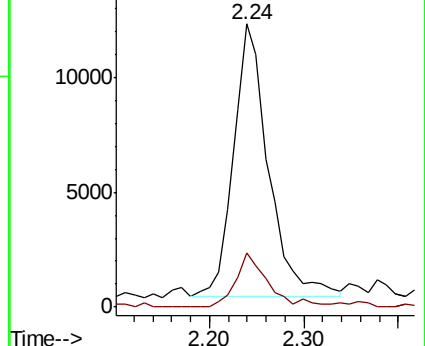
43 100

58 19.2 11.6 17.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 1.898 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.02 min

Lab File: VF060813.D

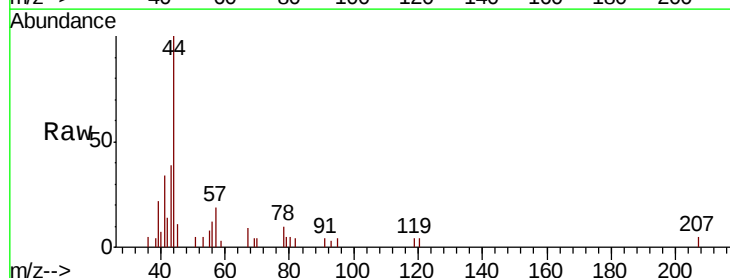
Acq: 20 Nov 2018 20:08

Tgt Ion: 43 Resp: 1569

Ion Ratio Lower Upper

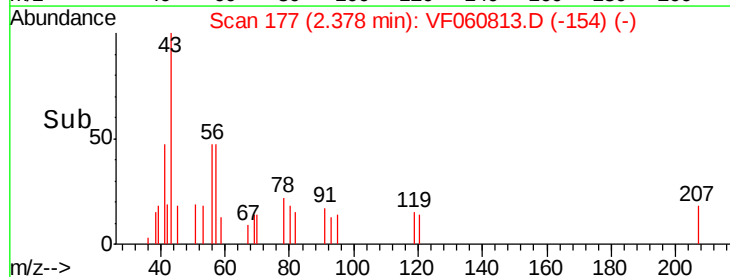
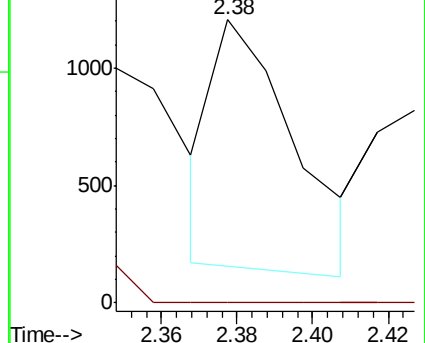
43 100

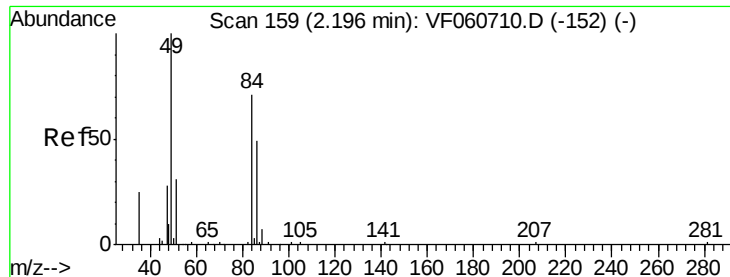
74 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

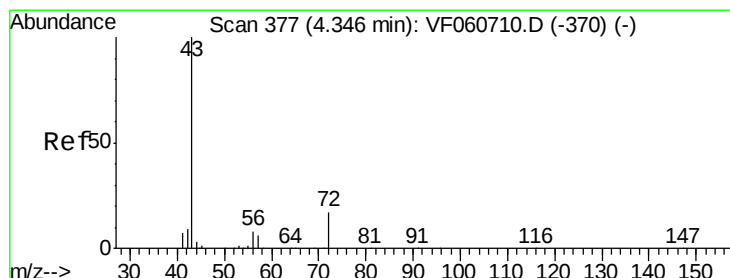
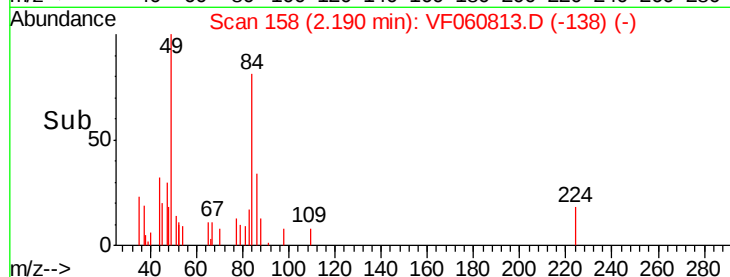
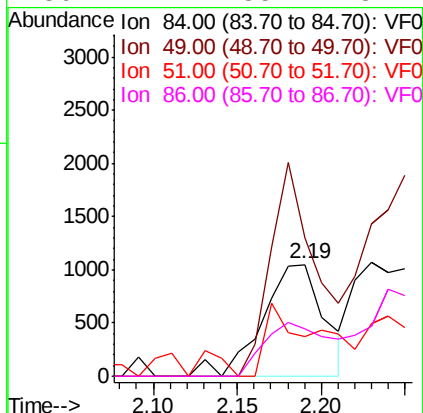
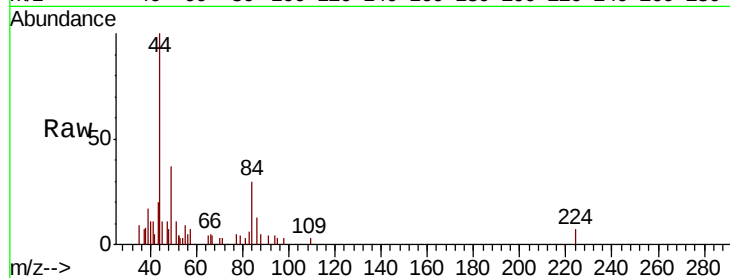




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.19 min Scan# 158
Delta R.T. -0.00 min
Lab File: VF060813.D
Acq: 20 Nov 2018 20:08

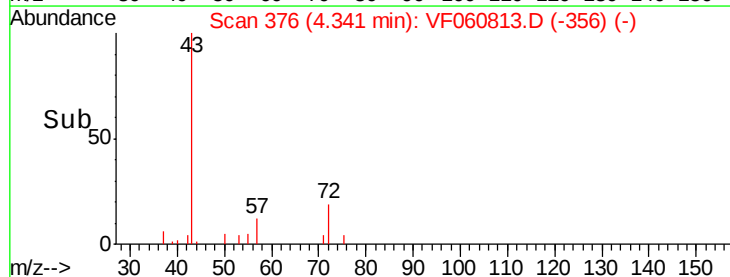
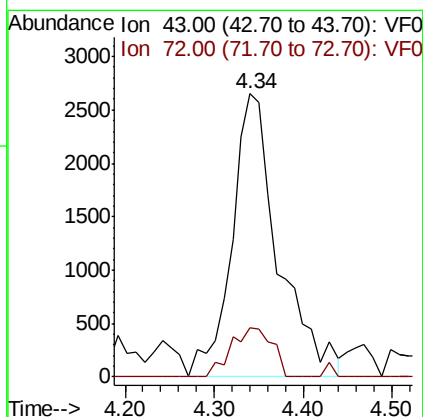
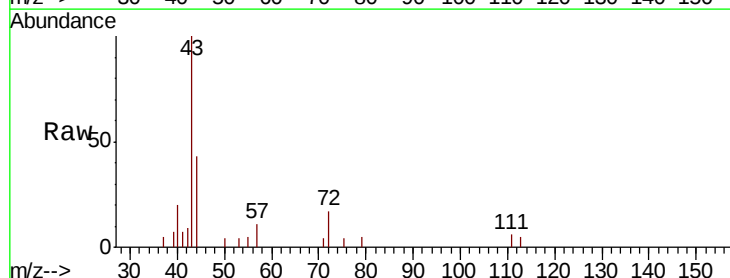
Instrument :
MSVOA_F
ClientSampleId :

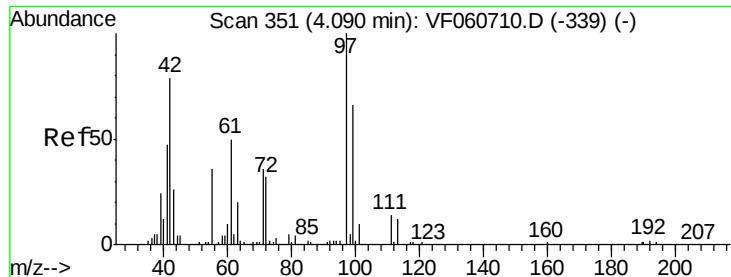
Tot Ion: 84 Resp: 2674
Ion Ratio Lower Upper
84 100
49 123.8 120.2 180.4
51 35.6 37.2 55.8#
86 42.2 55.1 82.7#



#25
2-Butanone
Concen: 11.670 ug/l
RT: 4.34 min Scan# 376
Delta R.T. -0.01 min
Lab File: VF060813.D
Acq: 20 Nov 2018 20:08

Tgt Ion: 43 Resp: 9664
Ion Ratio Lower Upper
43 100
72 17.2 16.1 24.1





#29

Tetrahydrofuran

Concen: 1.727 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.02 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

Instrument :

MSVOA_F

ClientSampled :

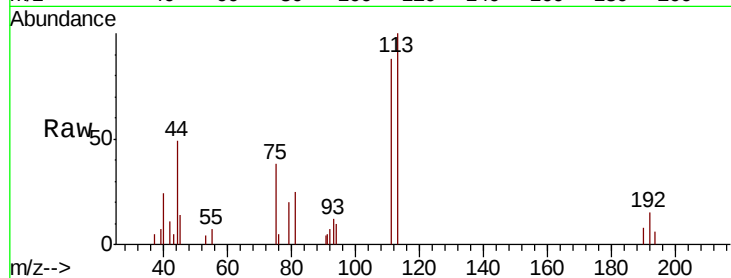
Tot Ion: 42 Resp: 590

Ion Ratio Lower Upper

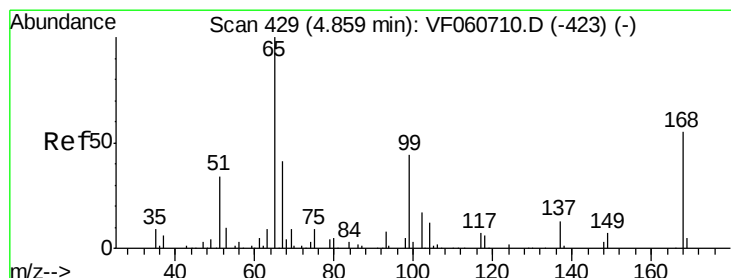
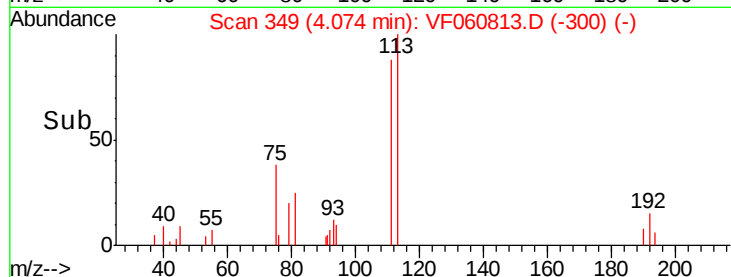
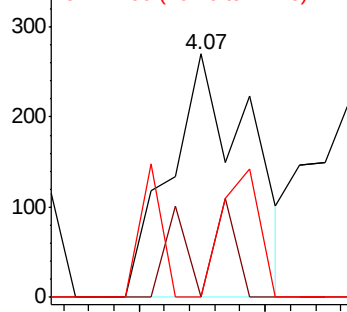
42 100

72 21.2 30.3 45.5#

71 25.3 32.2 48.2#



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: 37.036 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.01 min

Lab File: VF060813.D

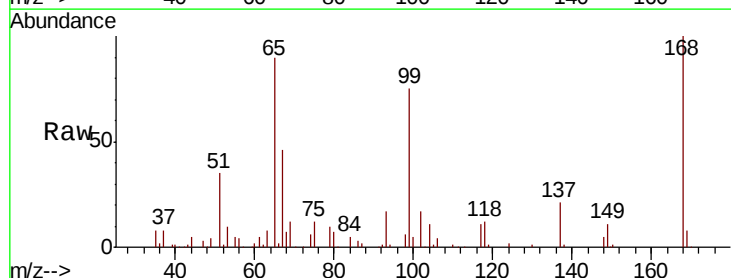
Acq: 20 Nov 2018 20:08

Tgt Ion: 65 Resp: 87238

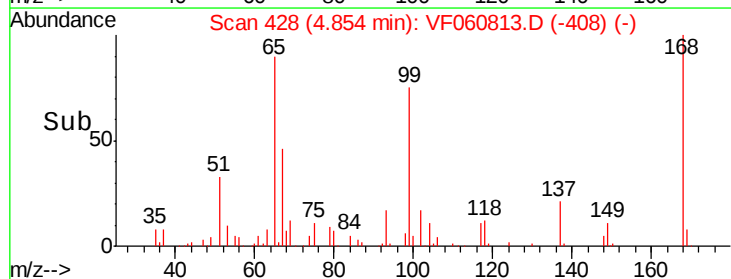
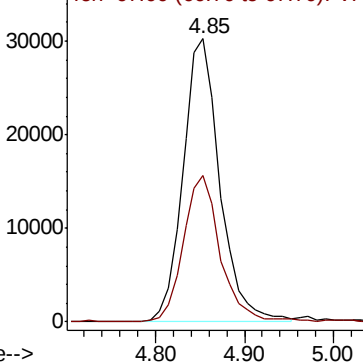
Ion Ratio Lower Upper

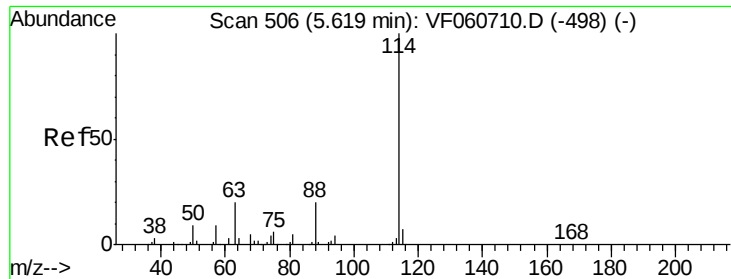
65 100

67 51.8 0.0 90.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.02 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

Instrument :

MSVOA_F

ClientSampleId :

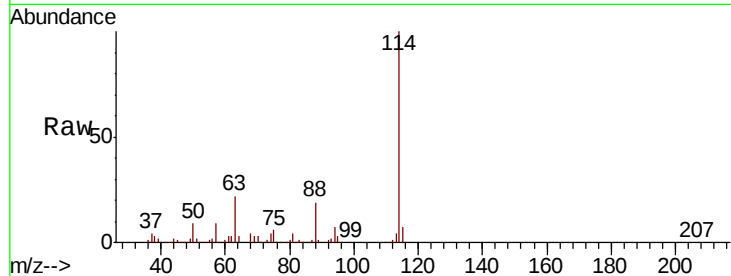
Tot Ion:114 Resp: 354665

Ion Ratio Lower Upper

114 100

63 22.2 0.0 40.8

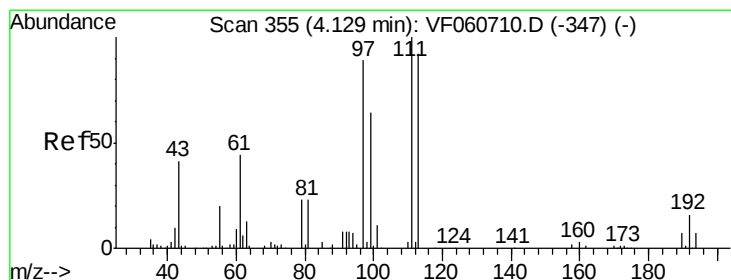
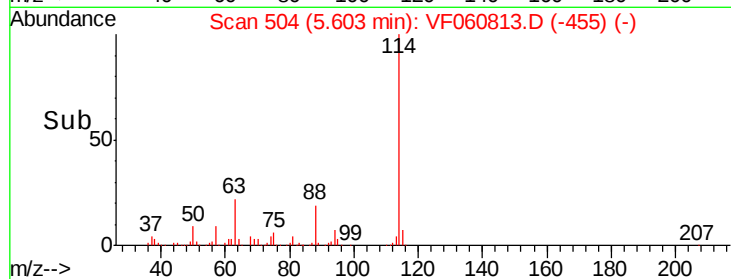
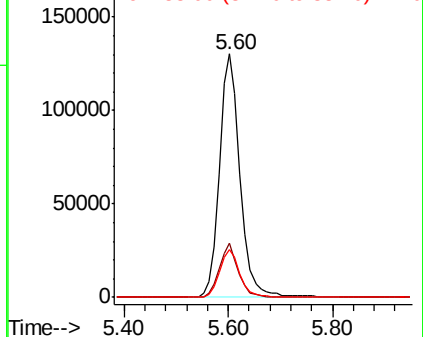
88 19.4 0.0 39.6



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: 40.657 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.02 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

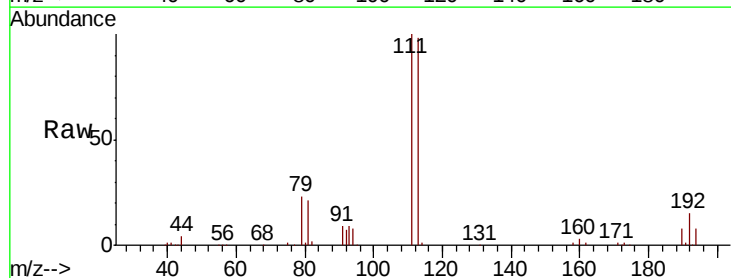
Tgt Ion:113 Resp: 108390

Ion Ratio Lower Upper

113 100

111 102.2 87.1 130.7

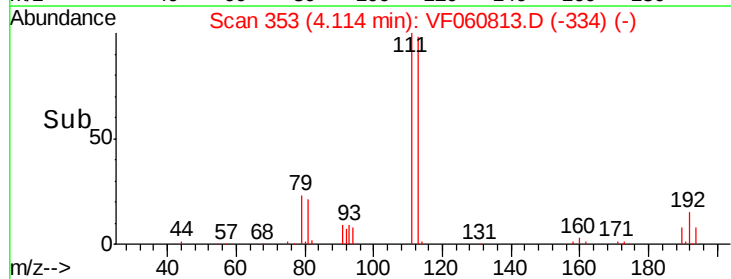
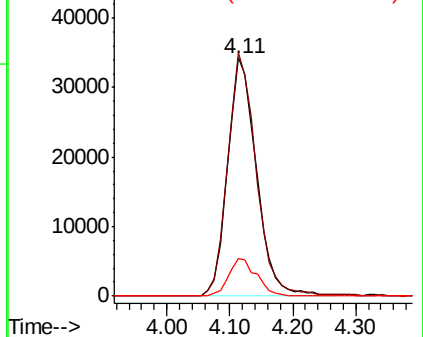
192 15.6 13.8 20.6

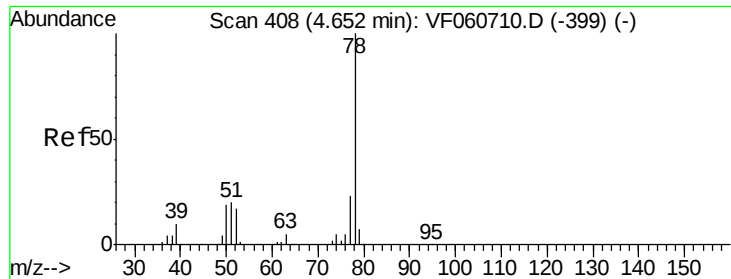


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 1.067 ug/l

RT: 4.64 min Scan# 406

Delta R.T. -0.02 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

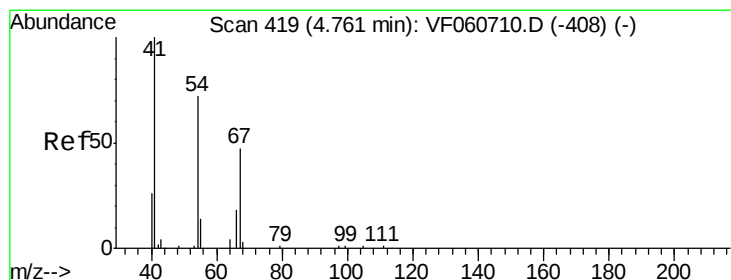
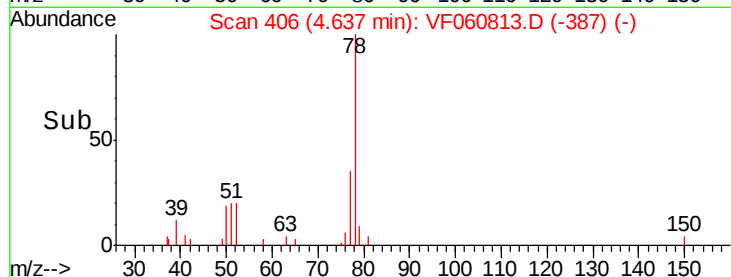
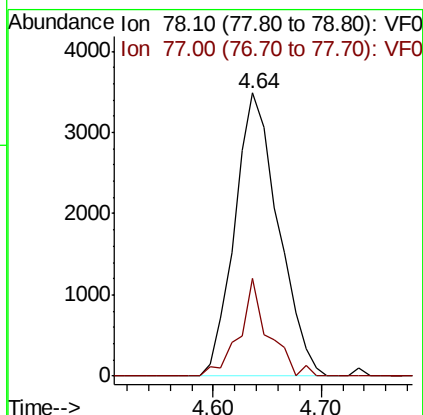
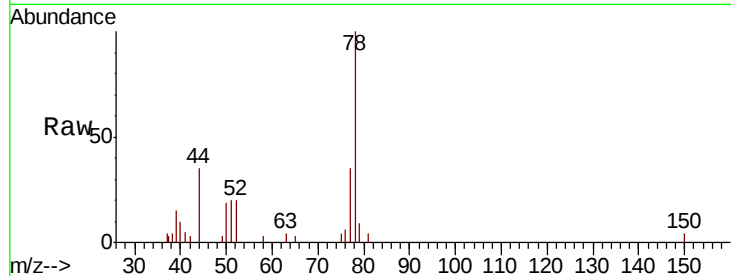
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 9782

Ion Ratio Lower Upper

78 100

77 34.7 18.6 28.0#



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 417

Delta R.T. -0.01 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

Tgt Ion: 41 Resp: 225

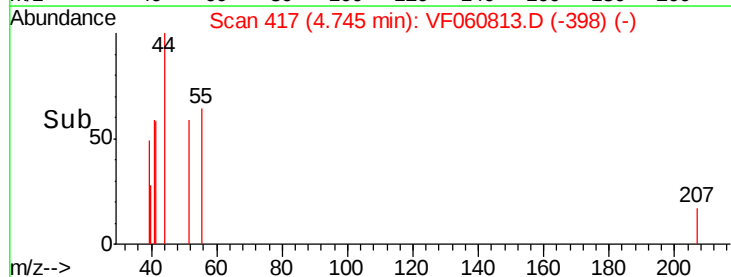
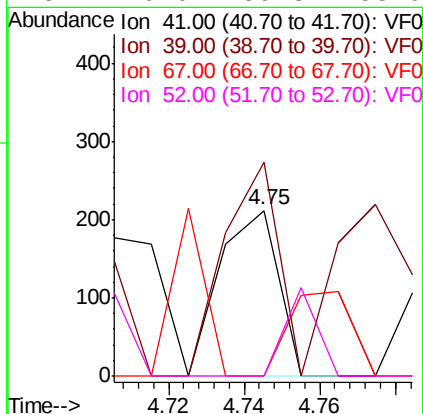
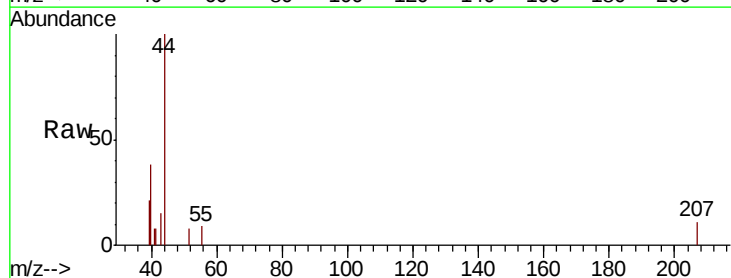
Ion Ratio Lower Upper

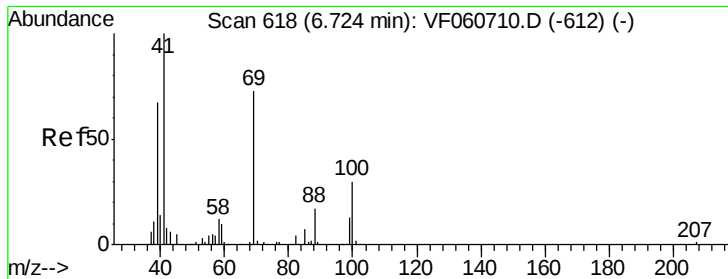
41 100

39 128.8 47.1 70.7#

67 0.0 37.1 55.7#

52 0.0 39.3 58.9#





#49

1,4-Dioxane

Concen: 5.179 ug/l

RT: 6.25 min Scan# 570

Delta R.T. -0.47 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

Instrument :
MSVOA_F
ClientSampleId :

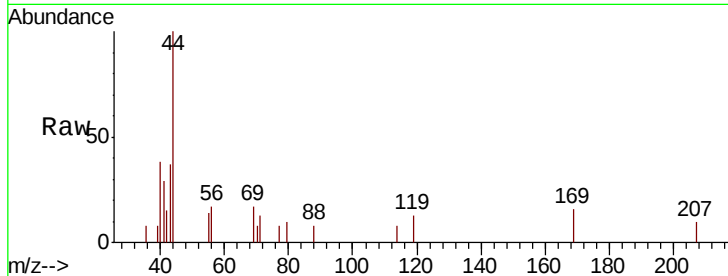
Tot Ion: 88 Resp: 65

Ion Ratio Lower Upper

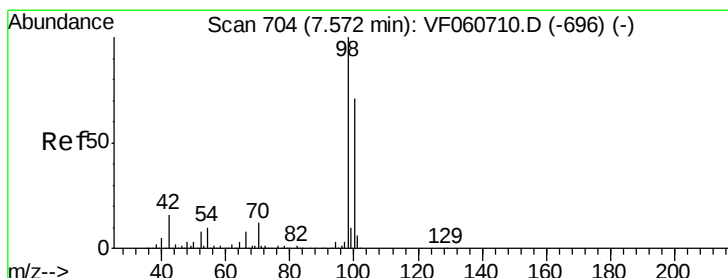
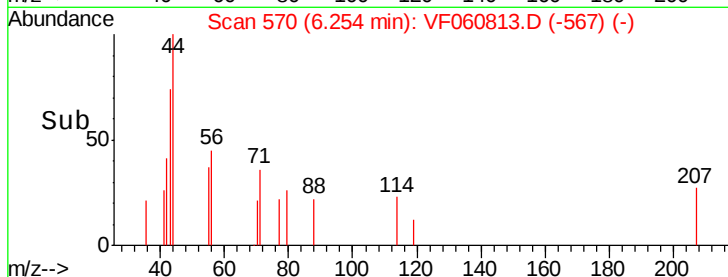
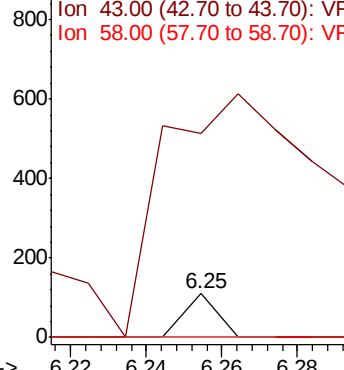
88 100

43 468.2 44.6 66.8#

58 0.0 54.5 81.7#



Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 37.057 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF060813.D

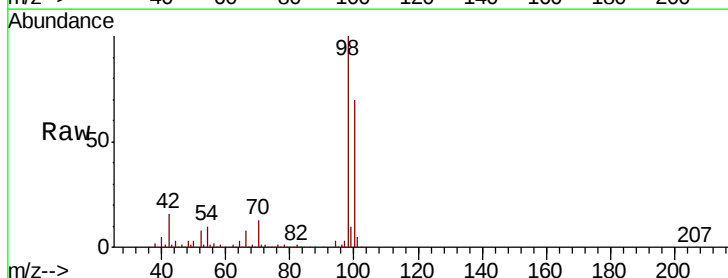
Acq: 20 Nov 2018 20:08

Tgt Ion: 98 Resp: 260029

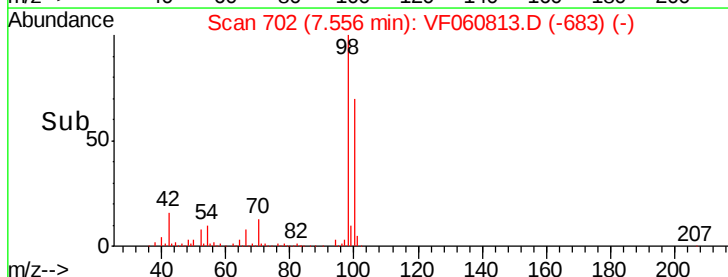
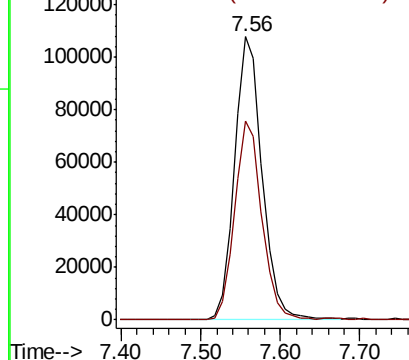
Ion Ratio Lower Upper

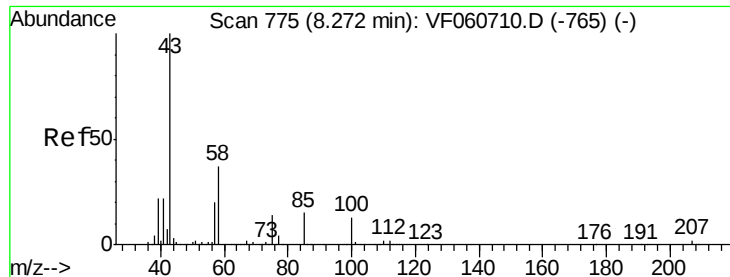
98 100

100 70.3 56.5 84.7



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





#51

4-Methyl-2-Pentanone

Concen: 1.491 ug/l

RT: 8.28 min Scan# 775

Delta R.T. 0.00 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

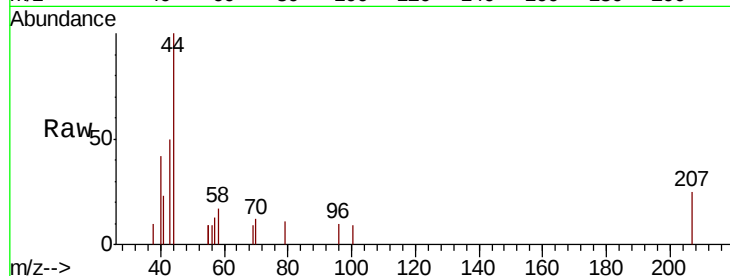
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2187

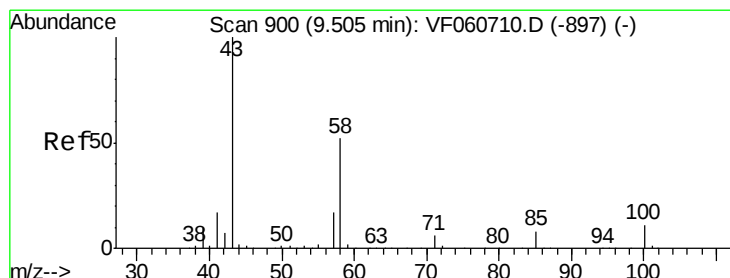
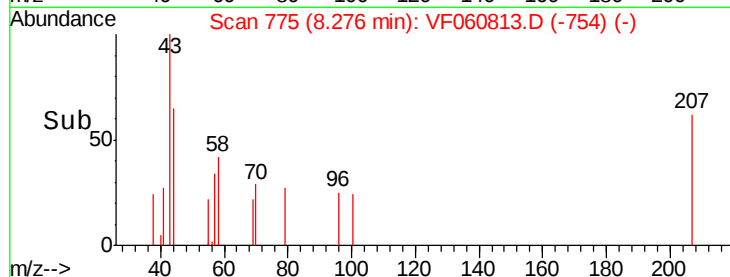
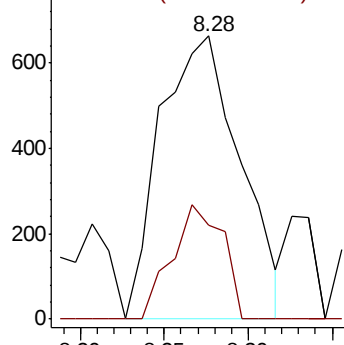
Ion Ratio Lower Upper

43 100

58 33.3 29.2 43.8



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 2.863 ug/l

RT: 9.50 min Scan# 899

Delta R.T. -0.01 min

Lab File: VF060813.D

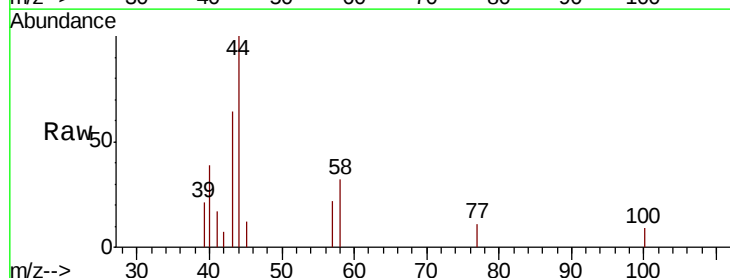
Acq: 20 Nov 2018 20:08

Tgt Ion: 43 Resp: 2951

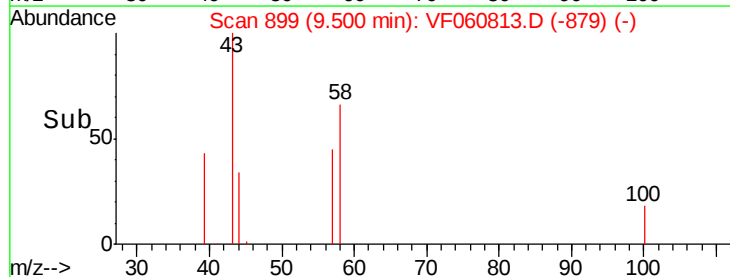
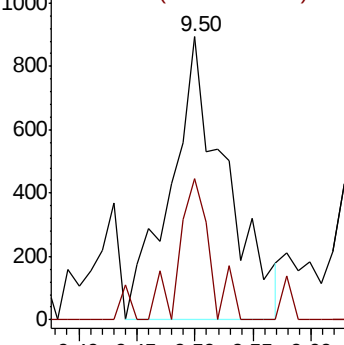
Ion Ratio Lower Upper

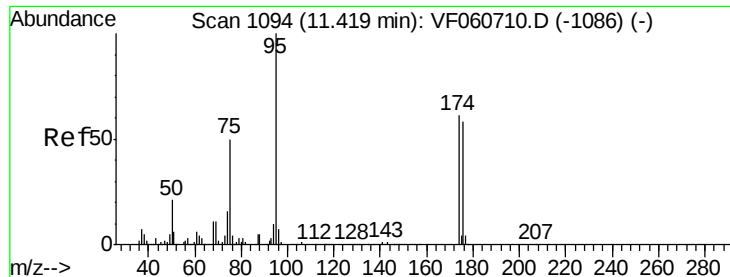
43 100

58 49.9 24.9 74.7



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 36.466 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

Instrument :

MSVOA_F

ClientSampleId :

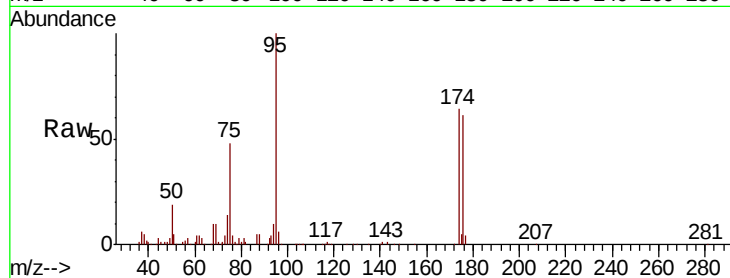
Tot Ion: 95 Resp: 118500

Ion Ratio Lower Upper

95 100

174 64.2 0.0 121.6

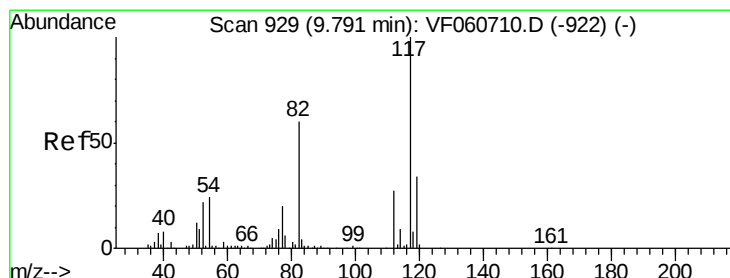
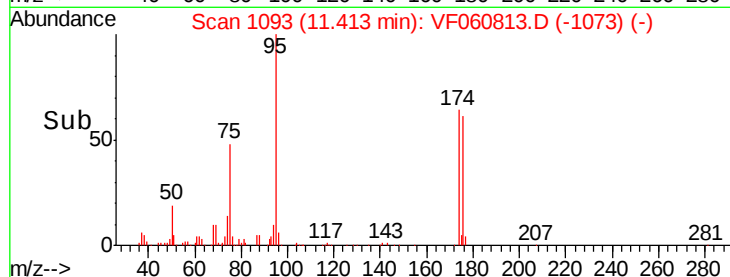
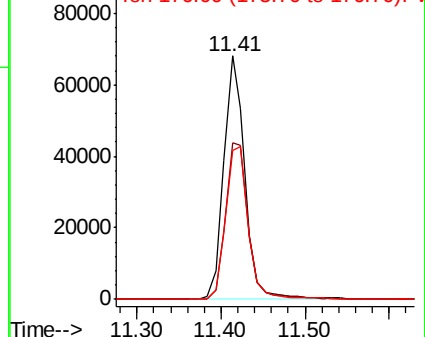
176 61.2 0.0 115.2



Abundance Ion 95.00 (94.70 to 95.70): VF060710.D (-1086) (-)

Ion 174.00 (173.70 to 174.70): VF060710.D (-1086) (-)

Ion 176.00 (175.70 to 176.70): VF060710.D (-1086) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 927

Delta R.T. -0.02 min

Lab File: VF060813.D

Acq: 20 Nov 2018 20:08

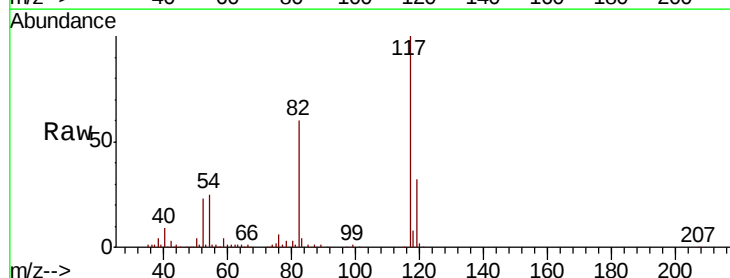
Tgt Ion: 117 Resp: 285611

Ion Ratio Lower Upper

117 100

82 60.0 47.9 71.9

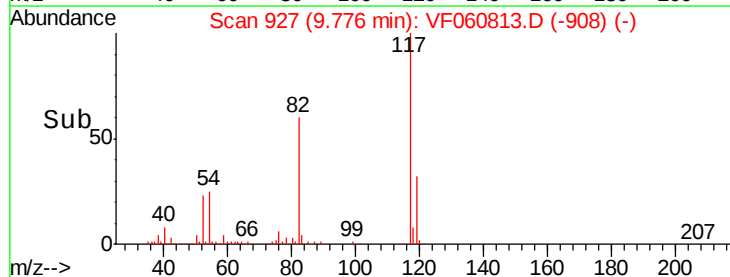
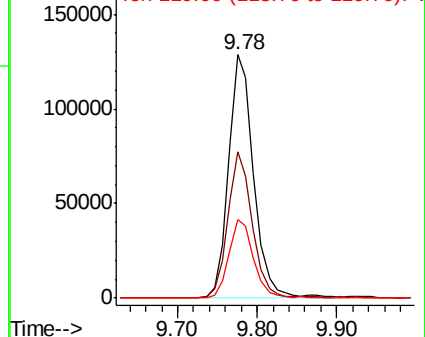
119 32.0 26.8 40.2

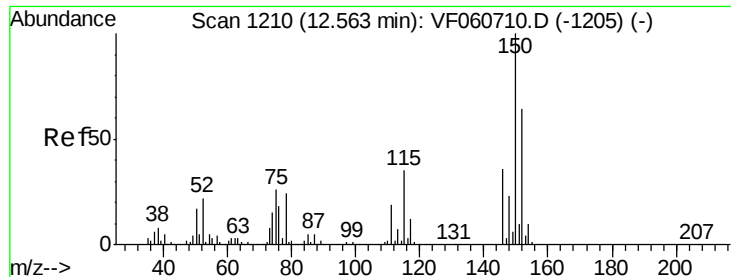


Abundance Ion 117.00 (116.70 to 117.70): VF060710.D (-922) (-)

Ion 82.00 (81.70 to 82.70): VF060710.D (-922) (-)

Ion 119.00 (118.70 to 119.70): VF060710.D (-922) (-)



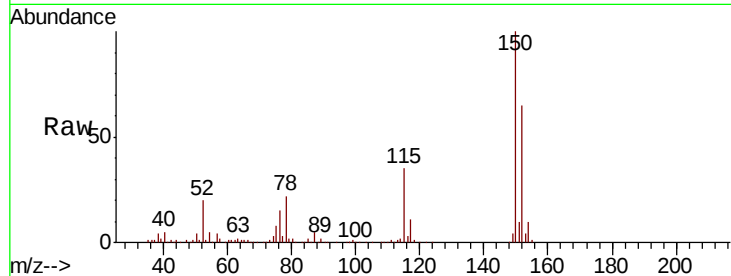


#72

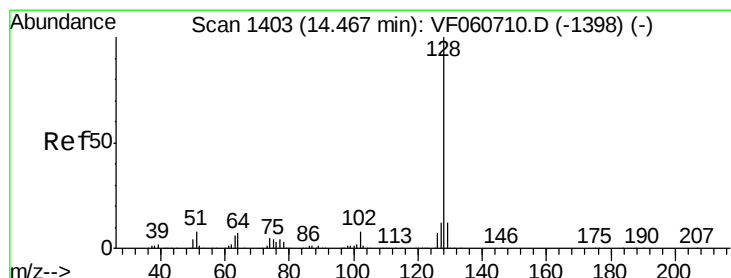
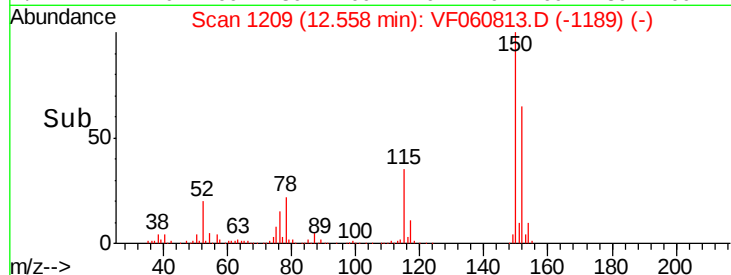
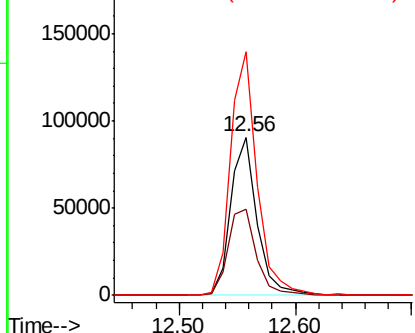
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF060813.D
Acq: 20 Nov 2018 20:08

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.0	27.9	83.7
150	153.6	0.0	316.4



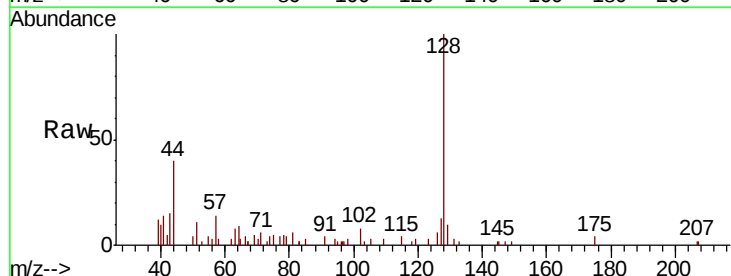
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



#95

Naphthalene
Concen: 1.457 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.01 min
Lab File: VF060813.D
Acq: 20 Nov 2018 20:08

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.8	14.6
129	9.7	9.3	13.9



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

