

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF110618\
 Data File : VF060618.D
 Acq On : 6 Nov 2018 17:55
 Operator : VA/AP
 Sample : J5767-05RE
 Misc : 6.67g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 06 17:18:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F110218S.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 03 05:29:31 2018
 Response via : Initial Calibration

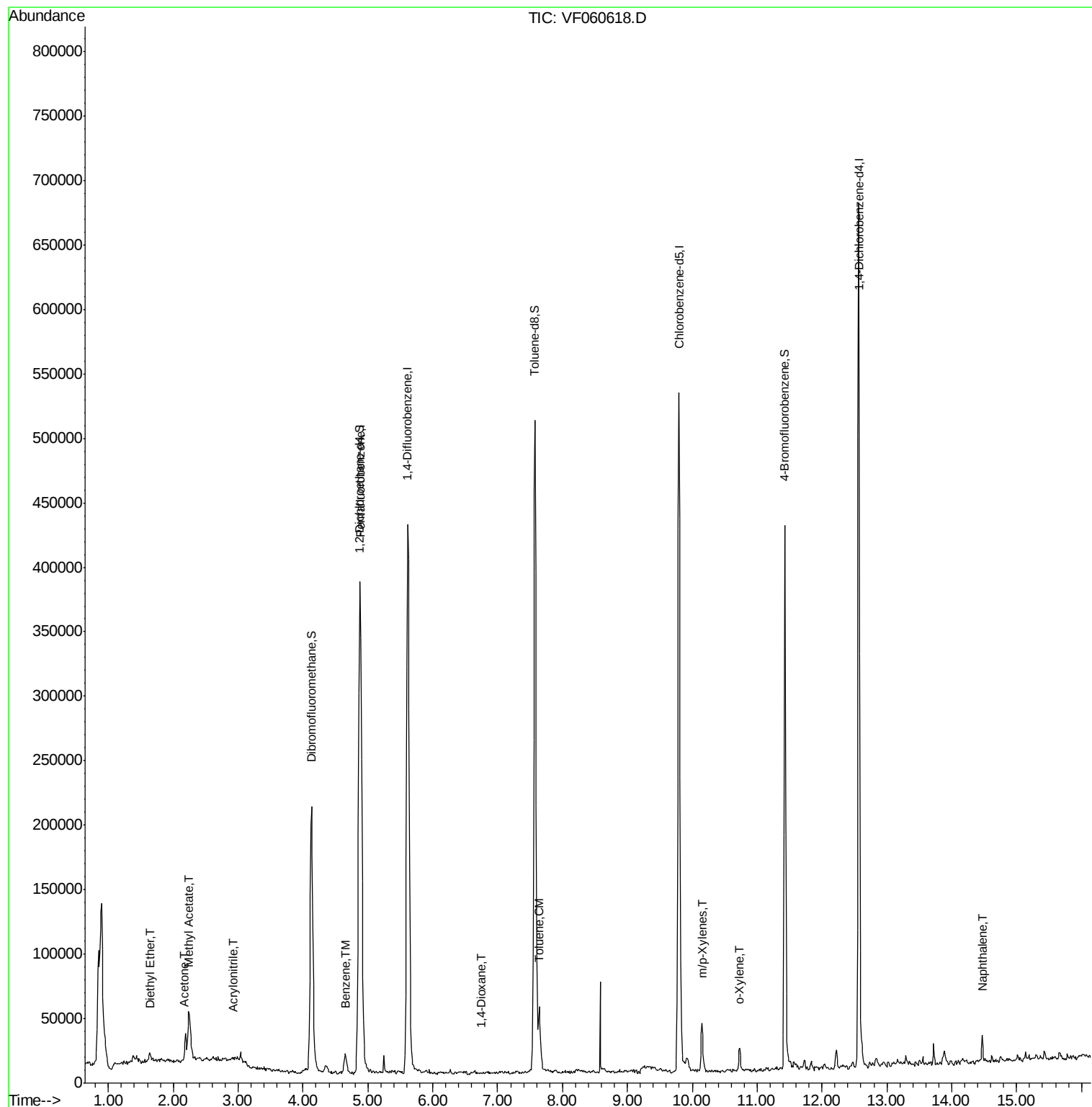
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	290235	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.61	114	498108	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.79	117	400057	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	12.57	152	168867	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	160004	54.56	ug/l	0.01
Spiked Amount 50.000			Recovery	=	109.12%	
35) Dibromofluoromethane	4.13	113	199824	51.92	ug/l	0.02
Spiked Amount 50.000			Recovery	=	103.84%	
50) Toluene-d8	7.58	98	442263	38.79	ug/l	0.01
Spiked Amount 50.000			Recovery	=	77.58%	
62) 4-Bromofluorobenzene	11.42	95	183325	36.76	ug/l	0.00
Spiked Amount 50.000			Recovery	=	73.52%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	0.95	85	669	Below Cal	#	41
6) Chloroethane	1.39	64	67	Below Cal	#	1
8) Diethyl Ether	1.64	74	2535	3.122	ug/l	64
11) Tert butyl alcohol	2.59	59	599	Below Cal	#	1
13) Acrolein	2.03	56	163	Below Cal	#	36
15) Acrylonitrile	2.92	53	2155	6.166	ug/l #	33
16) Acetone	2.16	43	1503	2.175	ug/l	93
18) Methyl Acetate	2.25	43	37146	34.755	ug/l #	64
25) 2-Butanone	4.35	43	12832	Below Cal	#	85
29) Tetrahydrofuran	4.09	42	1040	Below Cal	#	45
40) Benzene	4.66	78	17916	1.346	ug/l #	86
49) 1,4-Dioxane	6.75	88	68	3.106	ug/l #	1
52) Toluene	7.64	92	24841	2.864	ug/l	77
58) 2-Chloroethyl Vinyl ether	7.64	63	3844	Below Cal		100
59) 2-Hexanone	9.53	43	3144	Below Cal		64
68) m/p-Xylenes	10.15	106	12663	2.264	ug/l #	74
69) o-Xylene	10.73	106	6241	1.022	ug/l	95
74) N-amyl acetate	11.37	43	1203	Below Cal	#	57
89) n-Butylbenzene	12.86	91	1646	Below Cal		97
95) Naphthalene	14.47	128	9961	1.384	ug/l #	94

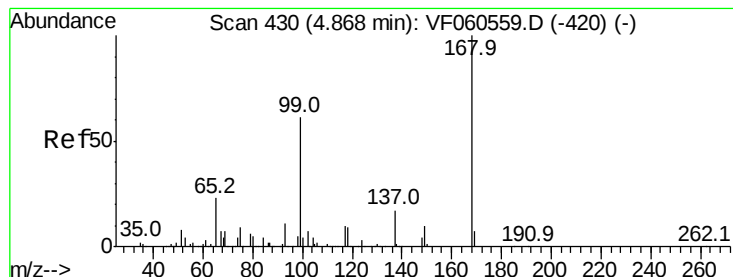
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Nov 03 05:29:31 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

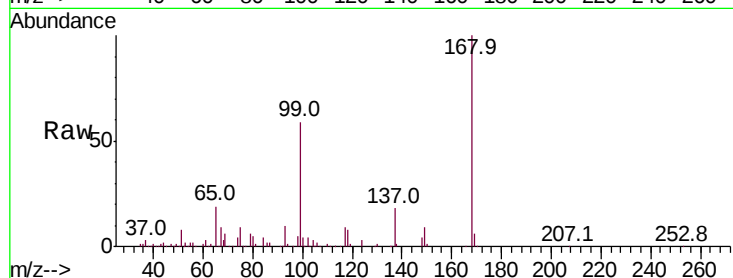
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 290235

Ion Ratio Lower Upper

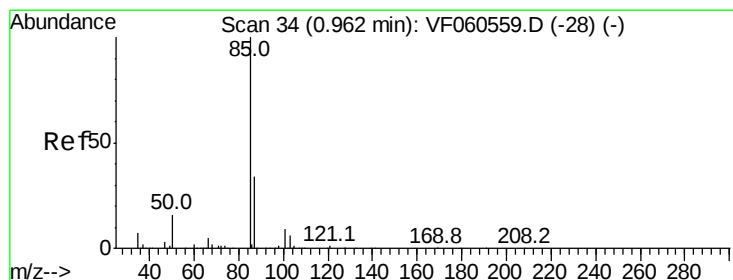
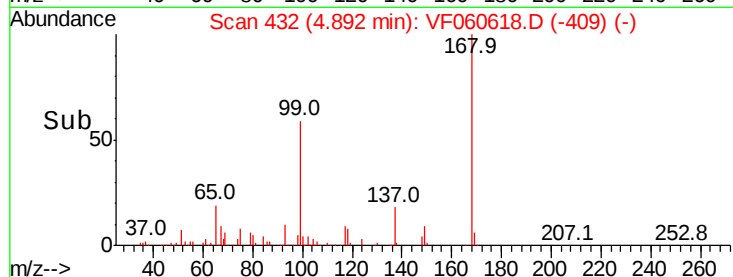
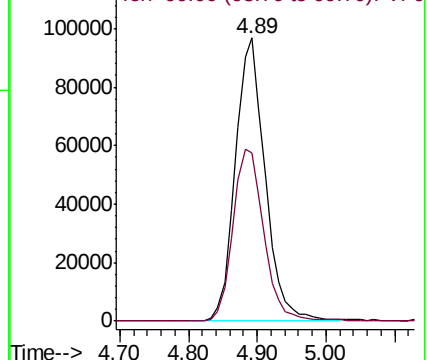
168 100

99 59.2 48.6 72.8



Abundance Ion 168.00 (167.70 to 168.70): V

Ion 99.00 (98.70 to 99.70): VF0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 0.95 min Scan# 32

Delta R.T. -0.01 min

Lab File: VF060618.D

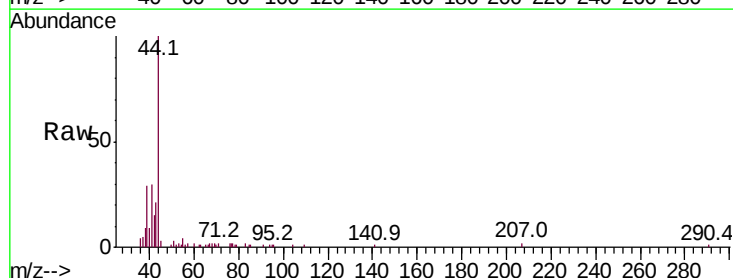
Acq: 6 Nov 2018 17:55

Tgt Ion: 85 Resp: 669

Ion Ratio Lower Upper

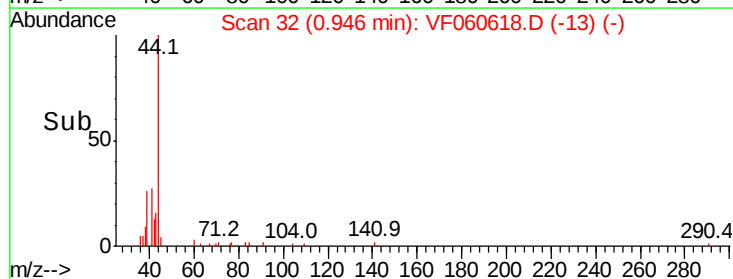
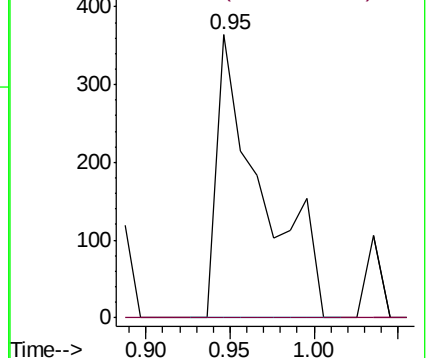
85 100

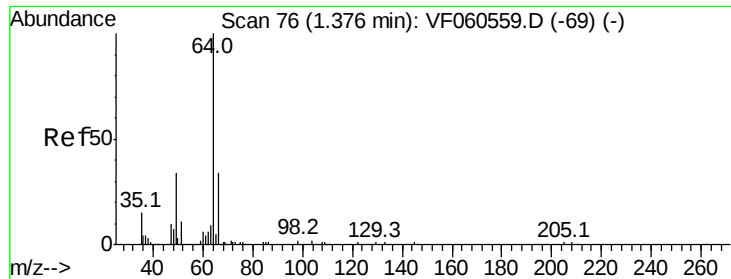
87 0.0 16.9 50.7#



Abundance Ion 85.00 (84.70 to 85.70): VF0

Ion 87.00 (86.70 to 87.70): VF0





#6

Chloroethane

Concen: Below Cal

RT: 1.39 min Scan# 77

Delta R.T. 0.02 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

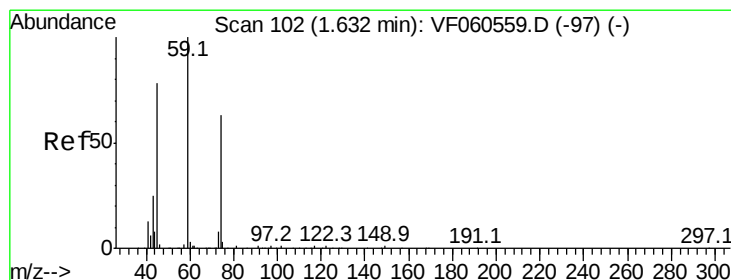
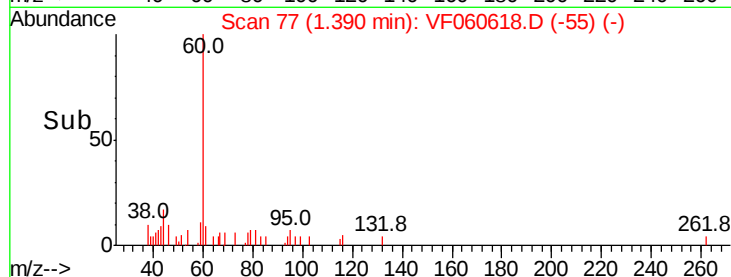
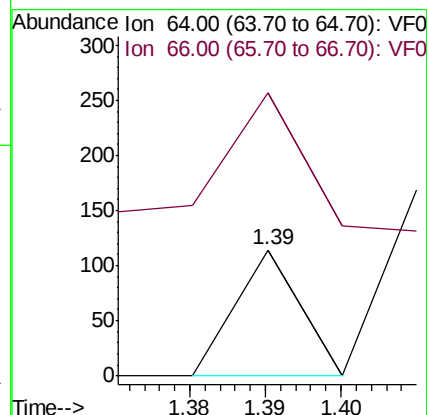
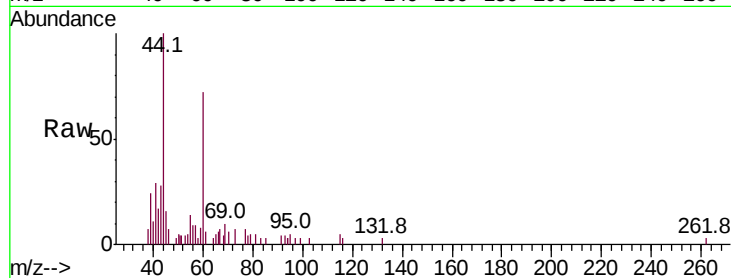
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 64 Resp: 67

Ion Ratio Lower Upper

64 100

66 225.4 27.8 41.8#



#8

Diethyl Ether

Concen: 3.122 ug/l

RT: 1.64 min Scan# 102

Delta R.T. 0.00 min

Lab File: VF060618.D

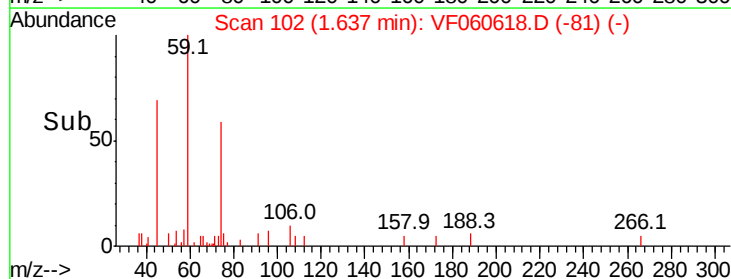
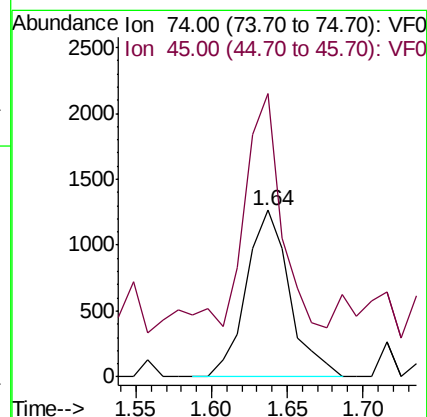
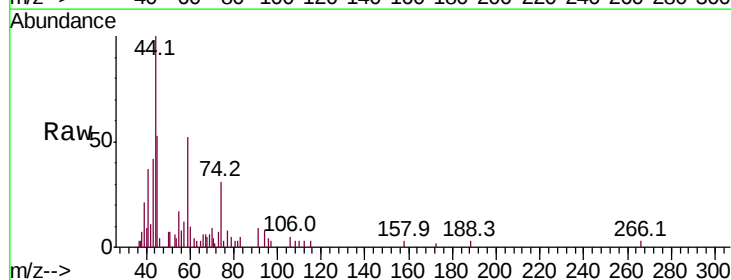
Acq: 6 Nov 2018 17:55

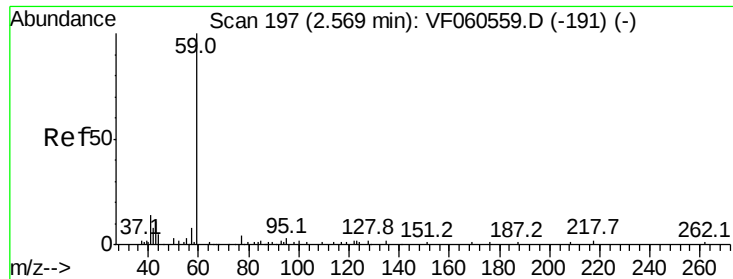
Tgt Ion: 74 Resp: 2535

Ion Ratio Lower Upper

74 100

45 169.7 63.8 191.5

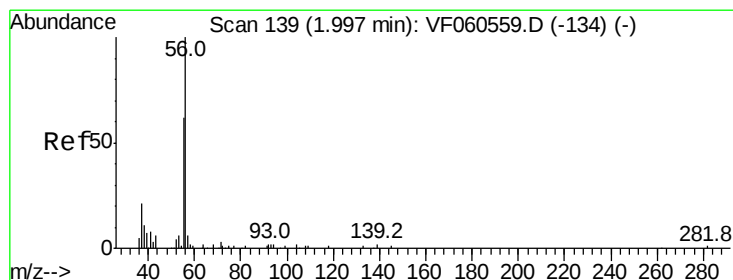
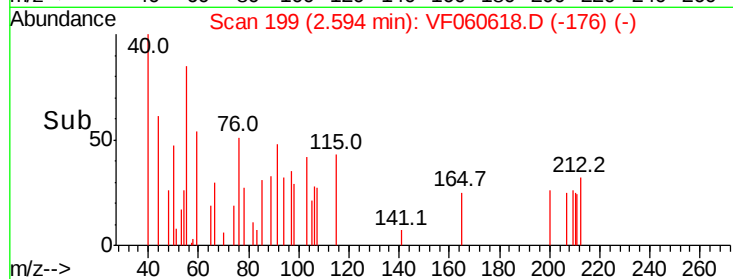
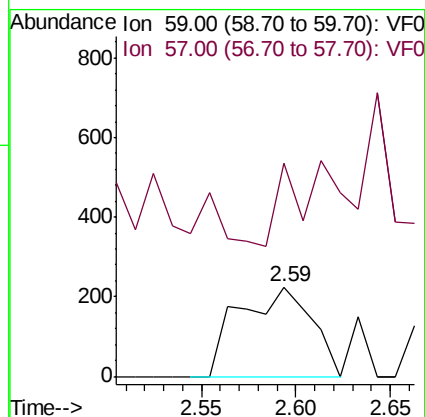
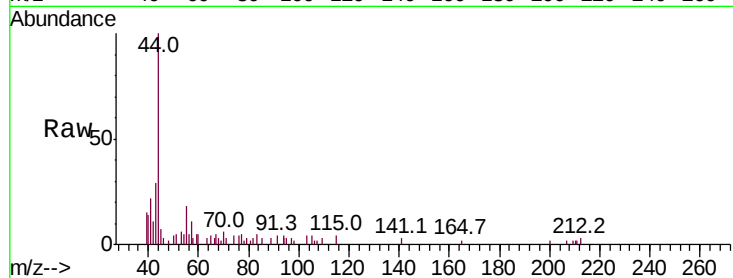




#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.59 min Scan# 199
Delta R.T. 0.02 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

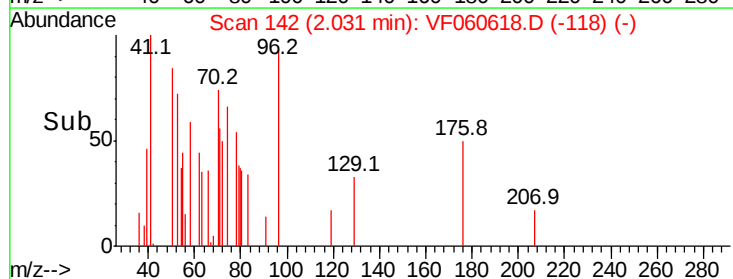
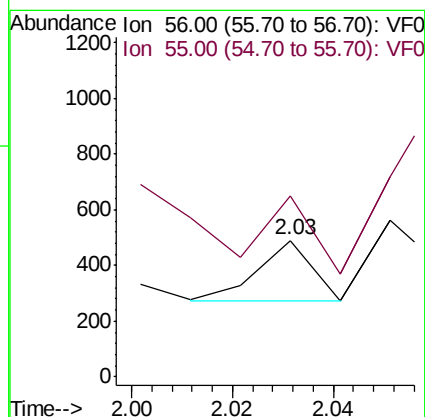
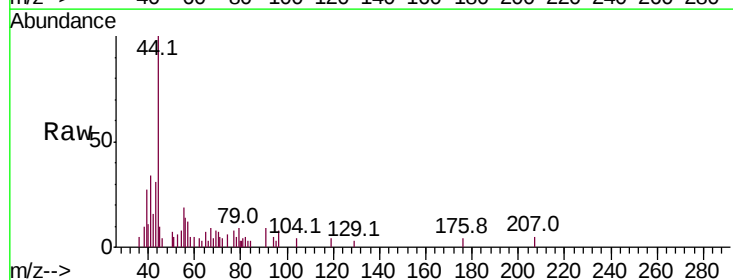
Instrument :
MSVOA_F
ClientSampleId :

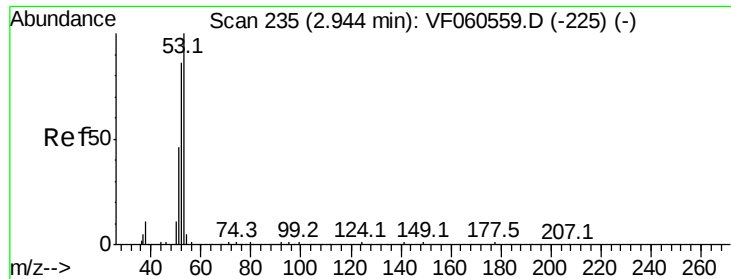
Tot Ion: 59 Resp: 599
Ion Ratio Lower Upper
59 100
57 237.8 19.0 28.4#



#13
Acrolein
Concen: Below Cal
RT: 2.03 min Scan# 142
Delta R.T. 0.03 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

Tgt Ion: 56 Resp: 163
Ion Ratio Lower Upper
56 100
55 132.8 61.8 92.6#





#15

Acrylonitrile

Concen: 6.166 ug/l

RT: 2.92 min Scan# 232

Delta R.T. -0.03 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

Instrument :
MSVOA_F
ClientSampleId :

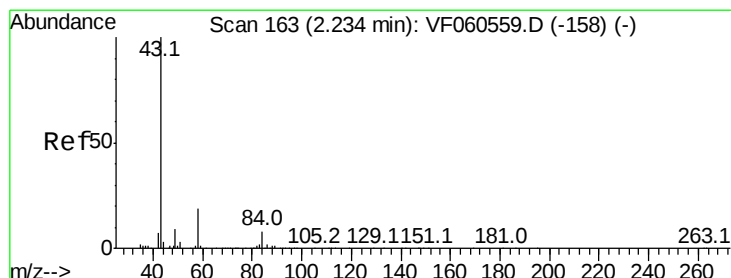
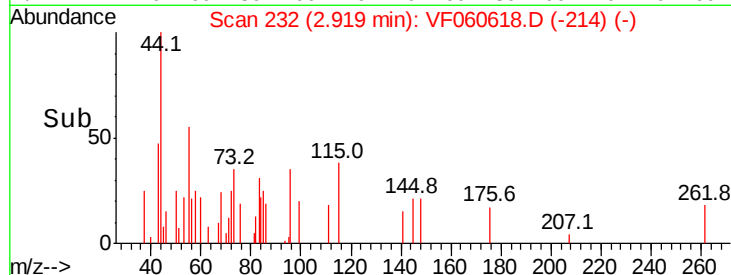
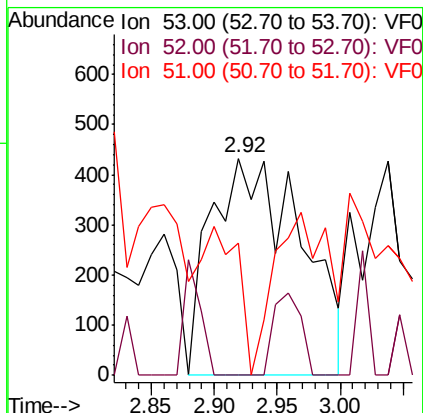
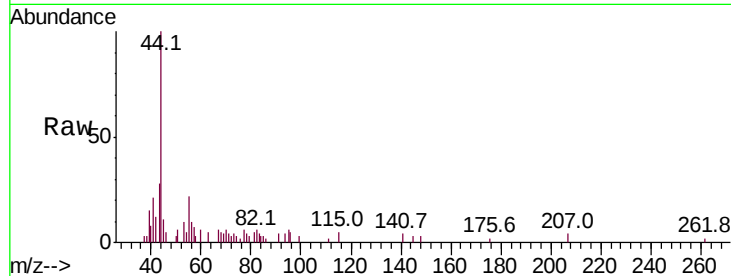
Tot Ion: 53 Resp: 2155

Ion Ratio Lower Upper

53 100

52 0.0 68.5 102.7#

51 60.7 38.2 57.2#



#16

Acetone

Concen: 2.175 ug/l

RT: 2.16 min Scan# 155

Delta R.T. -0.07 min

Lab File: VF060618.D

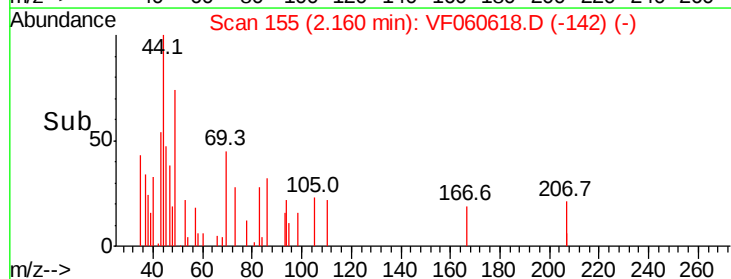
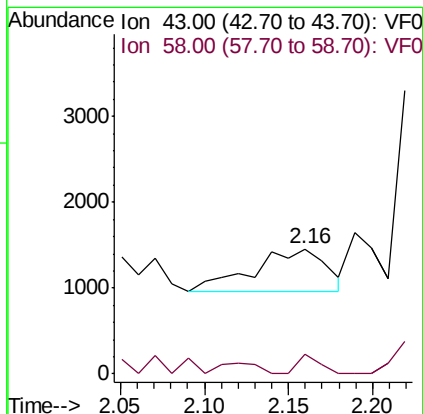
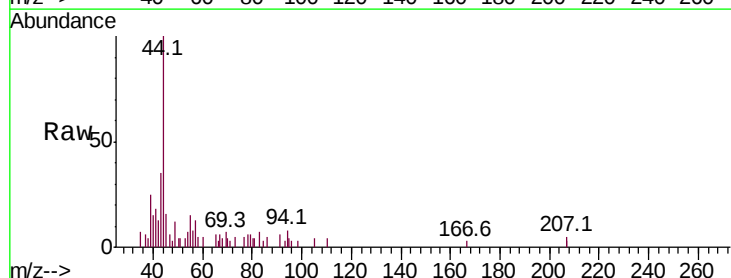
Acq: 6 Nov 2018 17:55

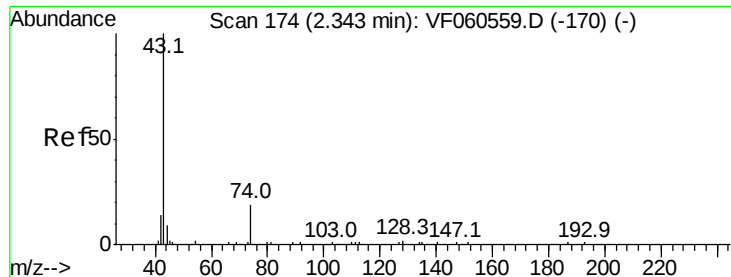
Tgt Ion: 43 Resp: 1503

Ion Ratio Lower Upper

43 100

58 15.3 14.6 22.0

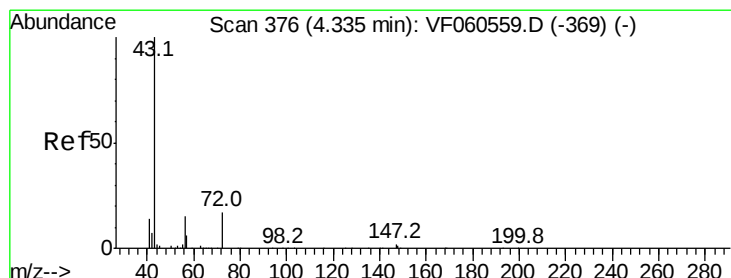
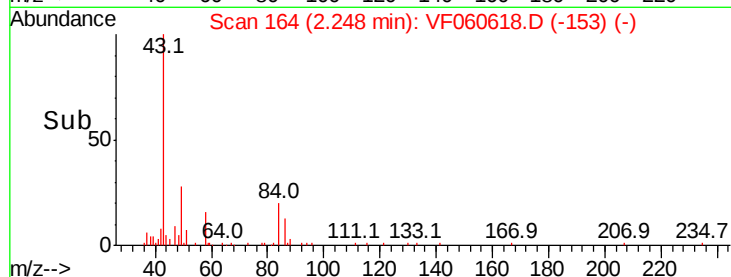
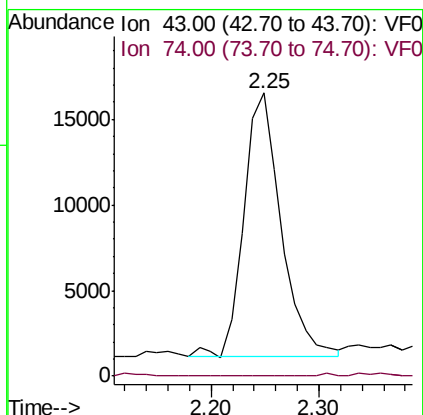
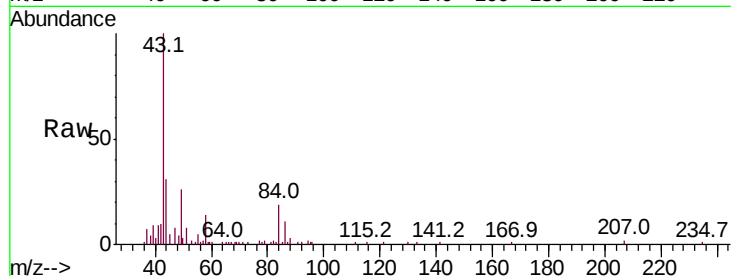




#18
Methyl Acetate
Concen: 34.755 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.09 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

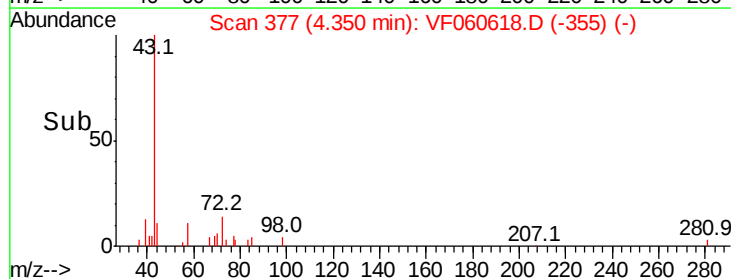
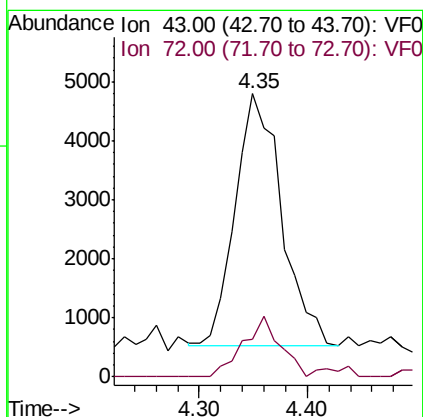
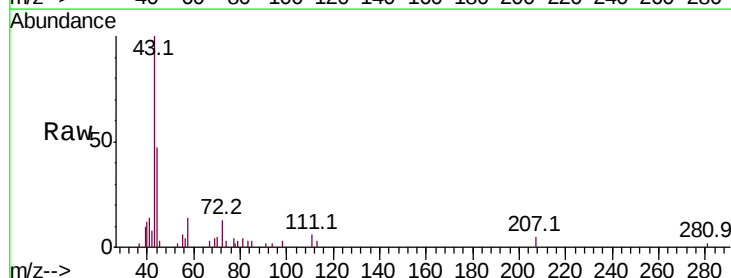
Instrument :
MSVOA_F
ClientSampleId :

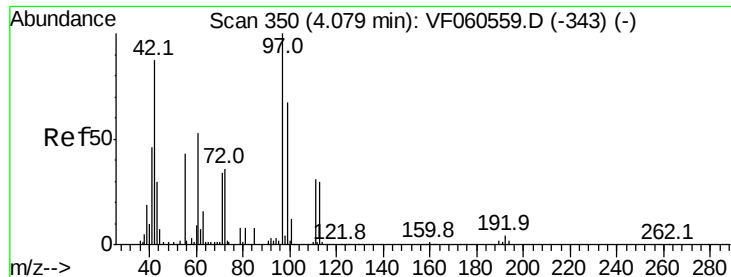
Tot Ion: 43 Resp: 37146
Ion Ratio Lower Upper
43 100
74 0.0 12.1 18.1#



#25
2-Butanone
Concen: Below Cal
RT: 4.35 min Scan# 377
Delta R.T. 0.01 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

Tgt Ion: 43 Resp: 12832
Ion Ratio Lower Upper
43 100
72 13.3 16.2 24.2#





#29

Tetrahydrofuran

Concen: Below Cal

RT: 4.09 min Scan# 351

Delta R.T. 0.02 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampleId :

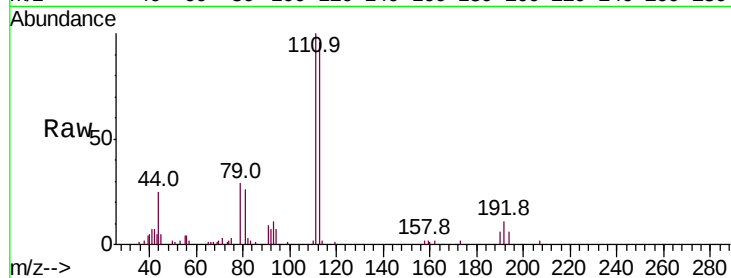
Tot Ion: 42 Resp: 1040

Ion Ratio Lower Upper

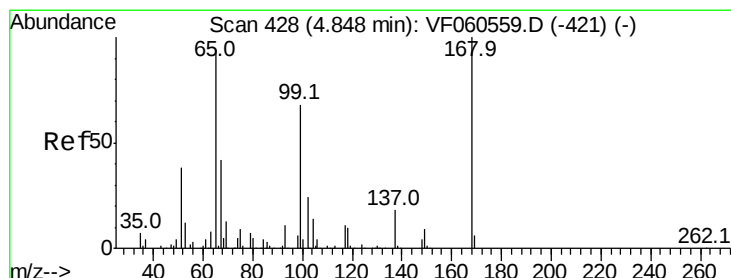
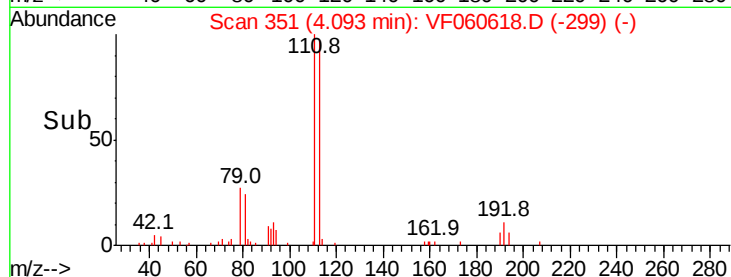
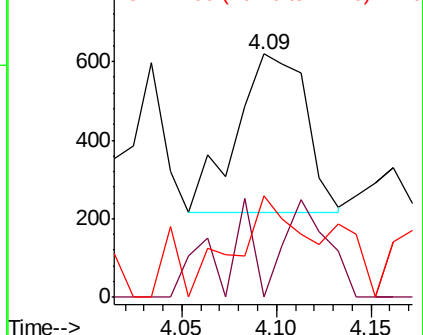
42 100

72 14.2 31.4 47.0#

71 81.8 31.8 47.6#



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: 54.563 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF060618.D

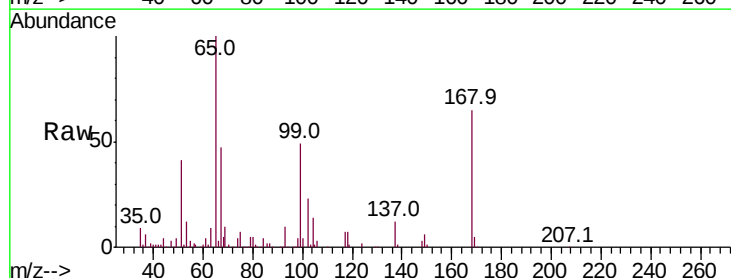
Acq: 6 Nov 2018 17:55

Tgt Ion: 65 Resp: 160004

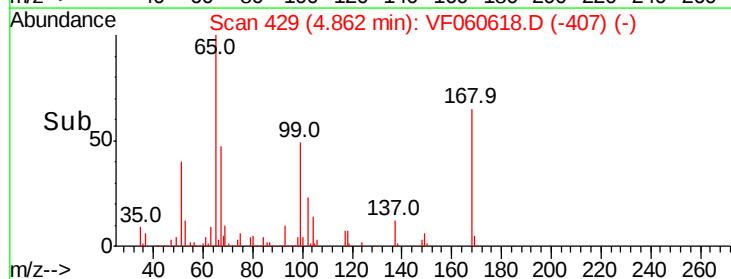
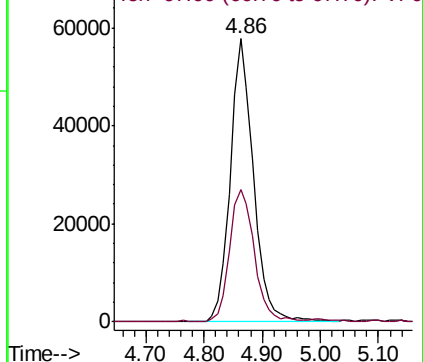
Ion Ratio Lower Upper

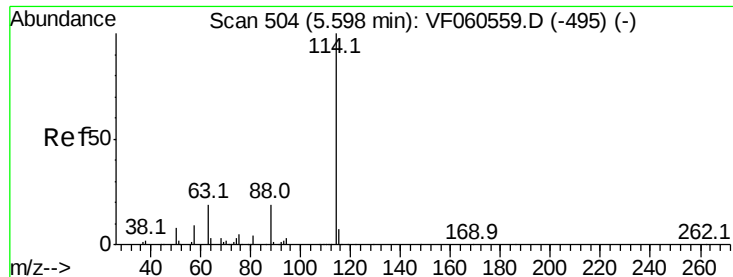
65 100

67 46.6 0.0 101.8



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

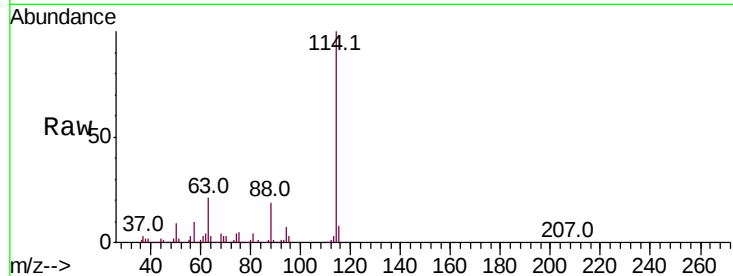




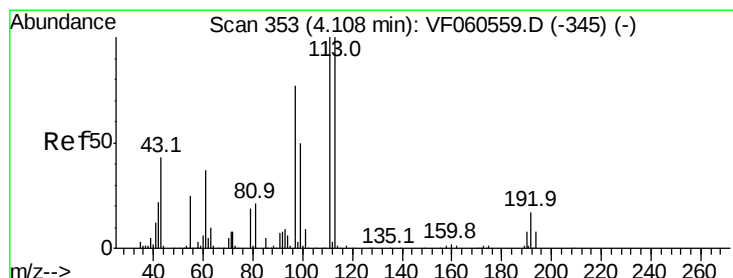
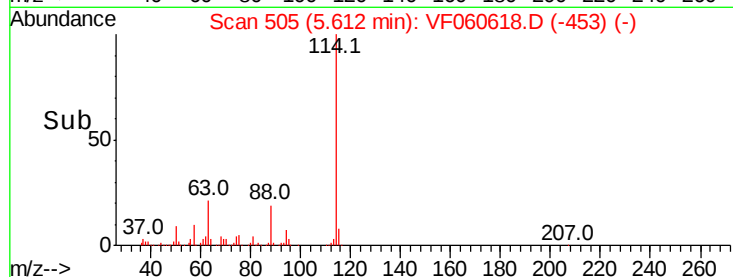
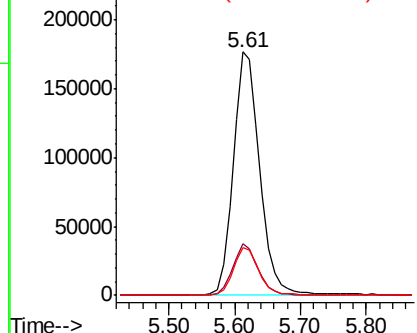
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.61 min Scan# 505
 Delta R.T. 0.01 min
 Lab File: VF060618.D
 Acq: 6 Nov 2018 17:55

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.4	0.0	39.0
88	19.4	0.0	38.2

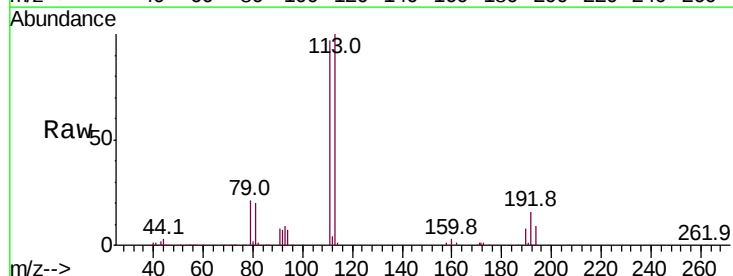


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VF0
 Ion 88.00 (87.70 to 88.70): VF0

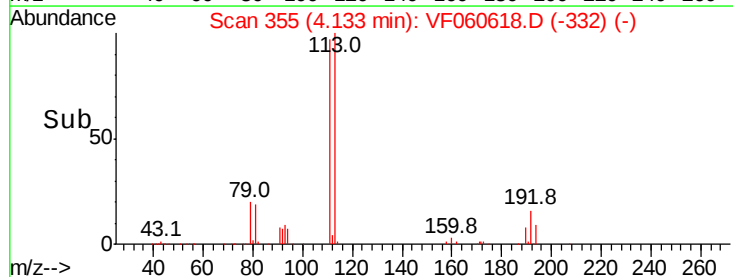
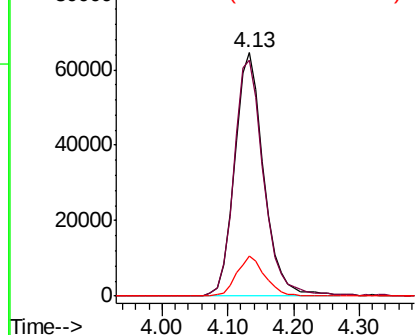


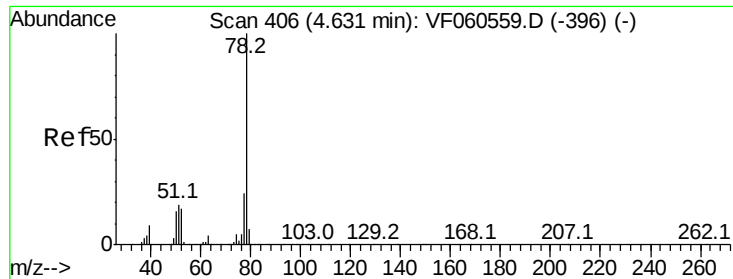
#35
 Dibromofluoromethane
 Concen: 51.924 ug/l
 RT: 4.13 min Scan# 355
 Delta R.T. 0.02 min
 Lab File: VF060618.D
 Acq: 6 Nov 2018 17:55

Tgt Ion	Ratio	Lower	Upper
113	100		
111	97.0	79.9	119.9
192	16.7	13.3	19.9



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: 1.346 ug/l

RT: 4.66 min Scan# 408

Delta R.T. 0.02 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

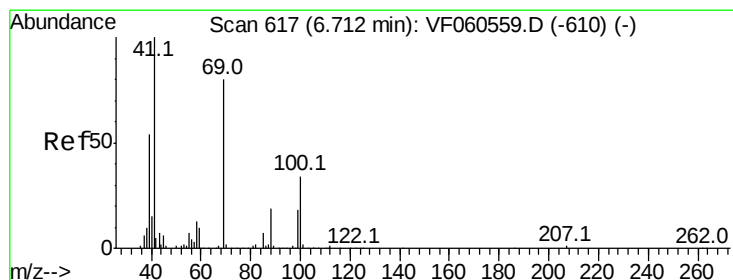
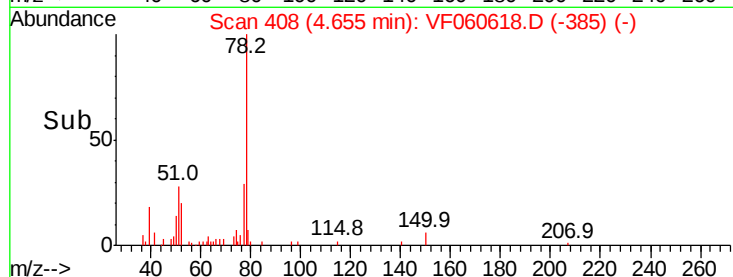
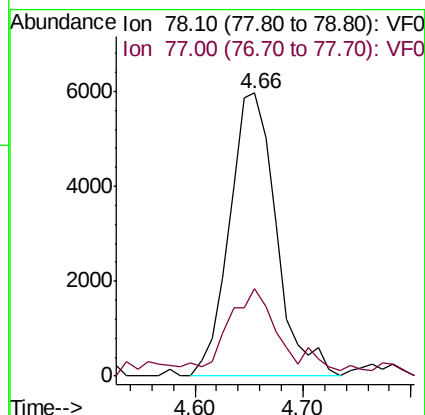
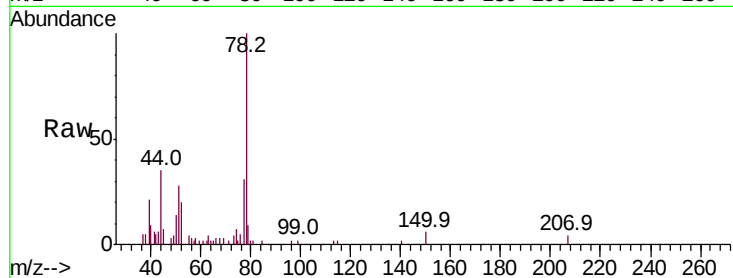
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 78 Resp: 17916

Ion Ratio Lower Upper

78 100

77 31.1 19.3 28.9#



#49

1,4-Dioxane

Concen: 3.106 ug/l

RT: 6.75 min Scan# 620

Delta R.T. 0.03 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

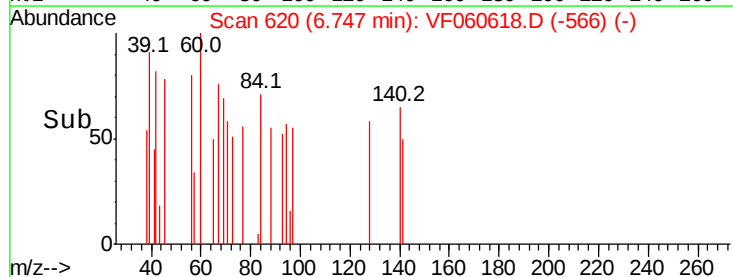
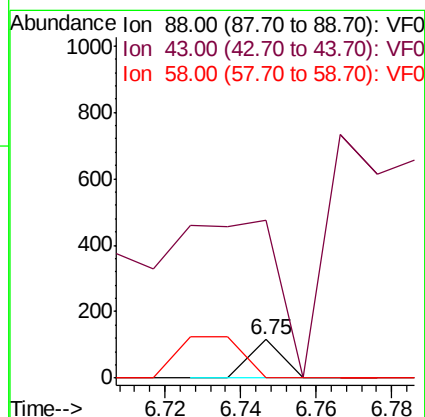
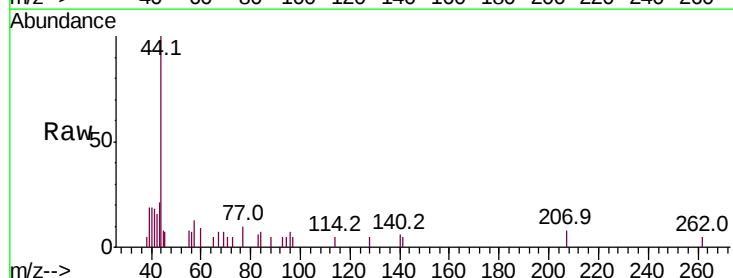
Tgt Ion: 88 Resp: 68

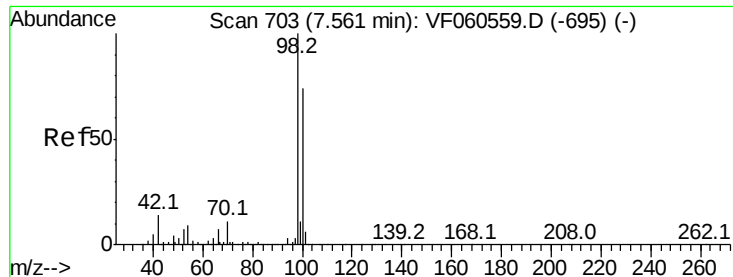
Ion Ratio Lower Upper

88 100

43 414.8 61.2 91.8#

58 0.0 56.9 85.3#

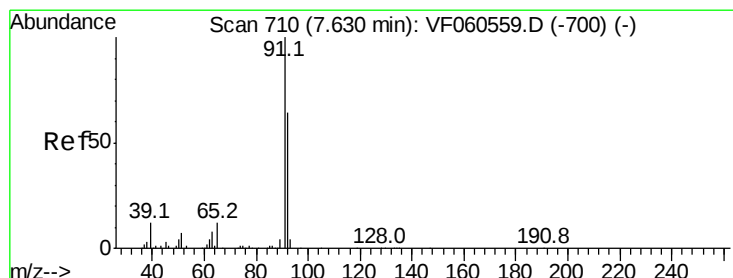
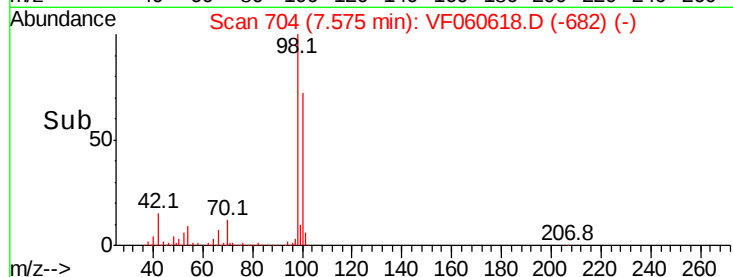
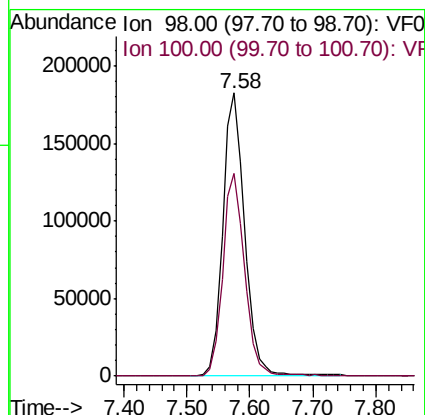
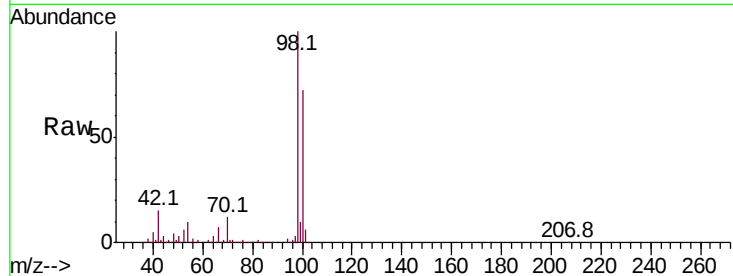




#50
Toluene-d8
Concen: 38.795 ug/l
RT: 7.58 min Scan# 704
Delta R.T. 0.01 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

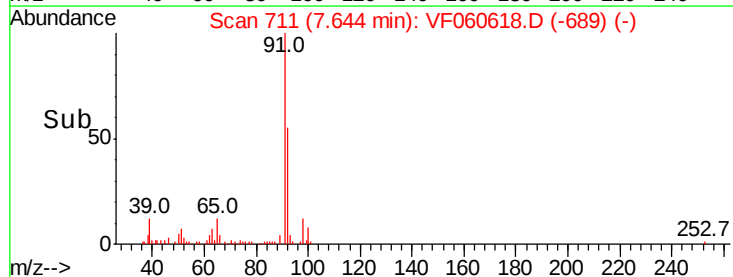
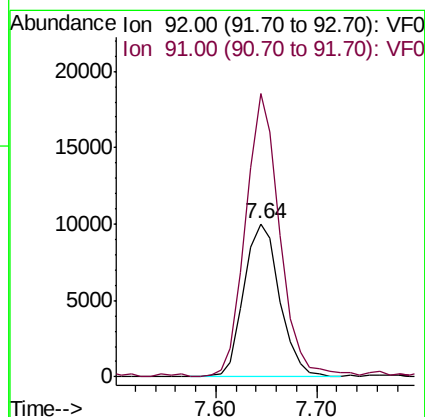
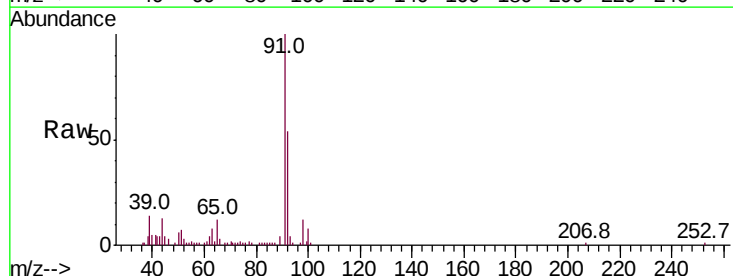
Instrument :
MSVOA_F
ClientSampleId :

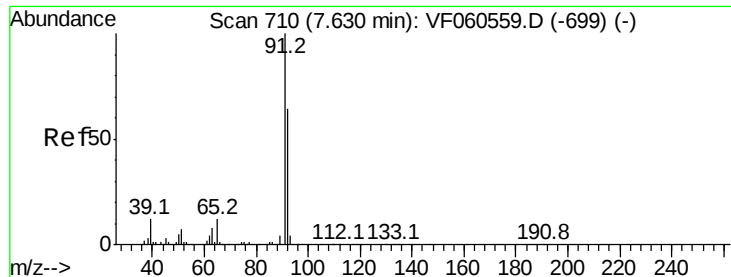
Tot Ion: 98 Resp: 442263
Ion Ratio Lower Upper
98 100
100 71.6 59.4 89.2



#52
Toluene
Concen: 2.864 ug/l
RT: 7.64 min Scan# 711
Delta R.T. 0.01 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

Tgt Ion: 92 Resp: 24841
Ion Ratio Lower Upper
92 100
91 184.9 124.5 186.7





#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 7.64 min Scan# 711

Delta R.T. 0.02 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

Instrument :

MSVOA_F

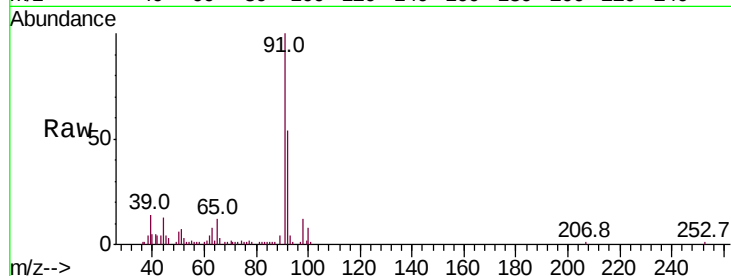
ClientSampleId :

Tot Ion: 63 Resp: 3844

Ion Ratio Lower Upper

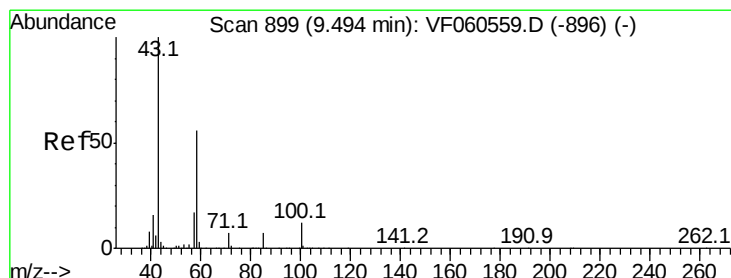
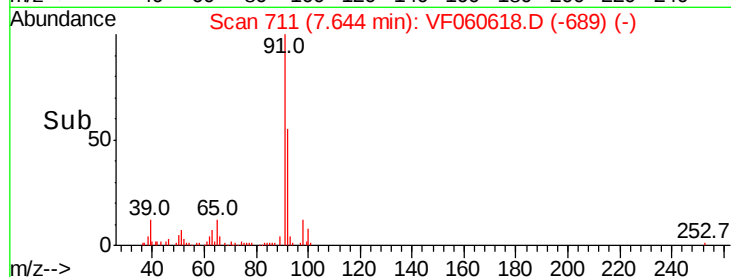
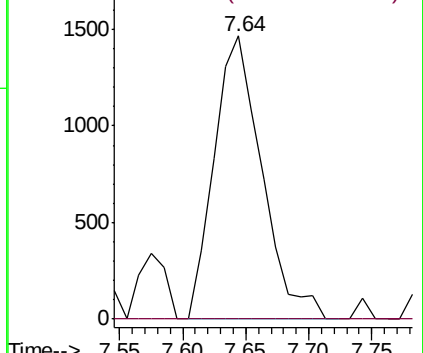
63 100

106 0.0 0.0 0.0



Abundance Ion 63.00 (62.70 to 63.70): VF0

Ion 106.00 (105.70 to 106.70): V



#59

2-Hexanone

Concen: Below Cal

RT: 9.53 min Scan# 902

Delta R.T. 0.03 min

Lab File: VF060618.D

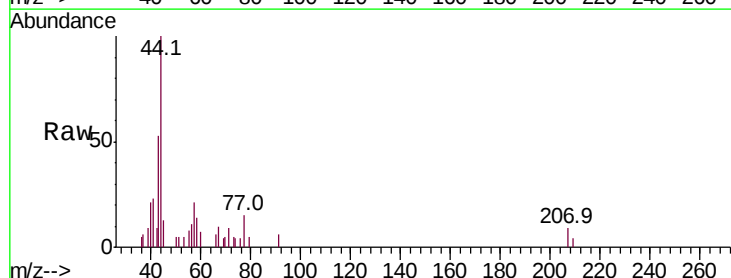
Acq: 6 Nov 2018 17:55

Tgt Ion: 43 Resp: 3144

Ion Ratio Lower Upper

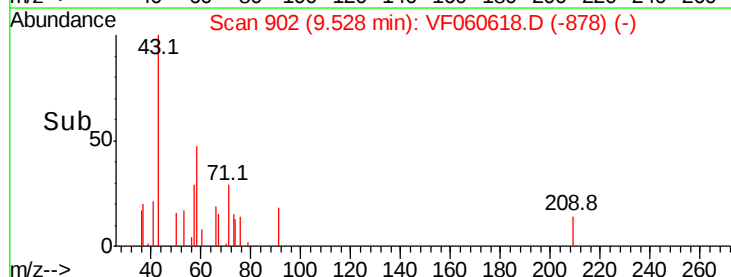
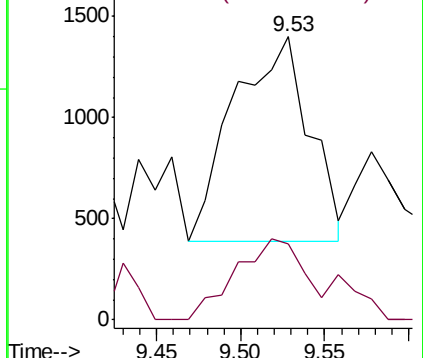
43 100

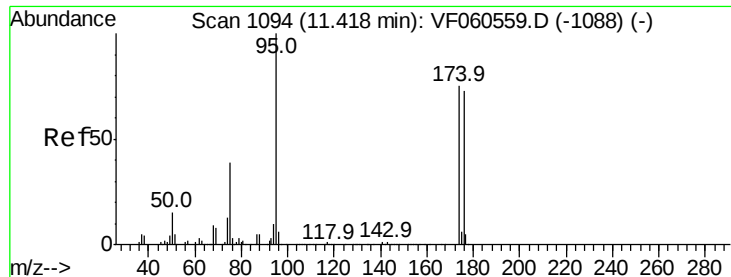
58 26.8 26.1 78.3



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

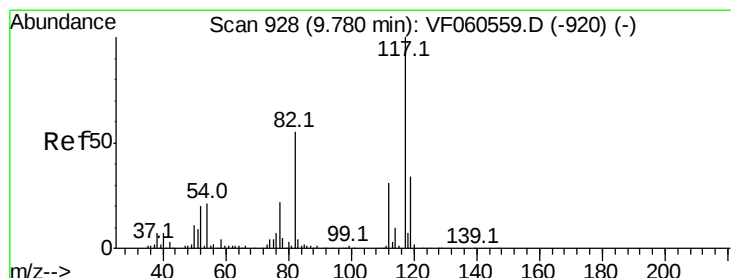
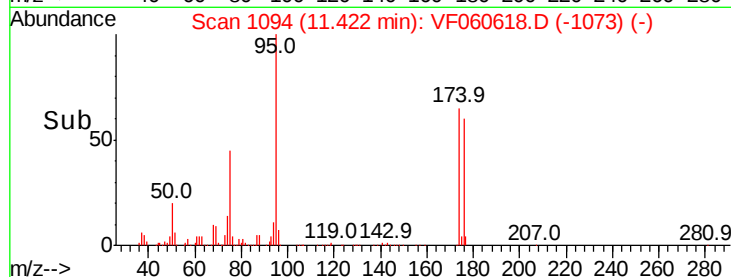
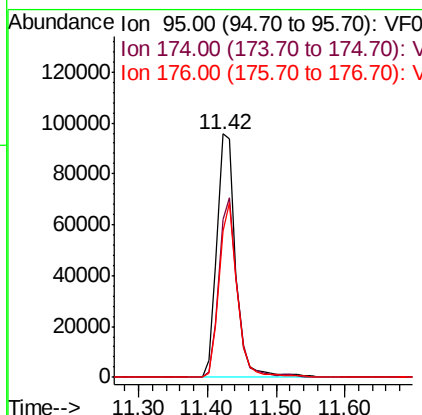
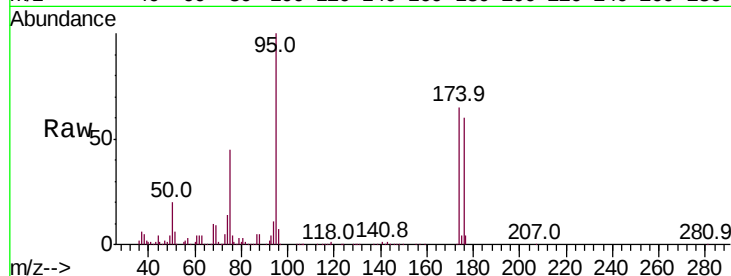




#62
4-Bromofluorobenzene
Concen: 36.764 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

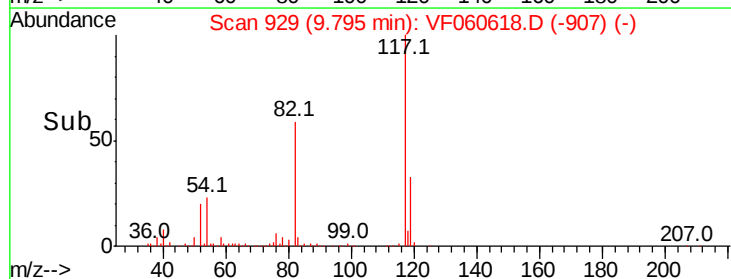
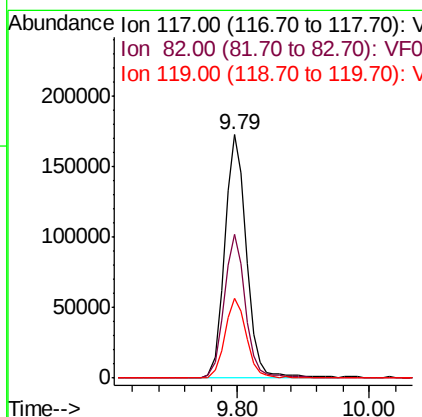
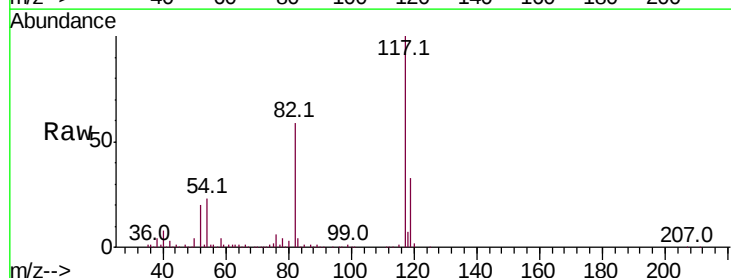
Instrument :
MSVOA_F
ClientSampleId :

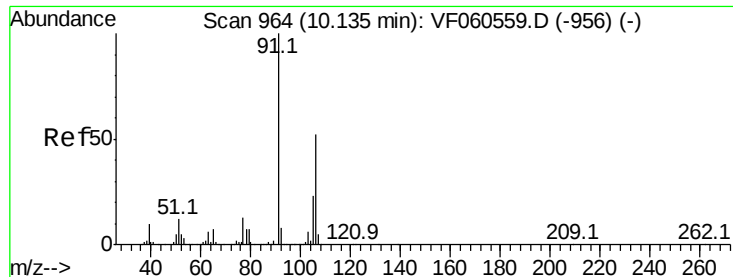
Tot Ion: 95 Resp: 183325
Ion Ratio Lower Upper
95 100
174 64.9 0.0 149.0
176 60.1 0.0 145.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. 0.01 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

Tgt Ion: 117 Resp: 400057
Ion Ratio Lower Upper
117 100
82 59.2 43.9 65.9
119 32.6 27.4 41.0





#68

m/p-Xylenes

Concen: 2.264 ug/l

RT: 10.15 min Scan# 965

Delta R.T. 0.01 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

Instrument :

MSVOA_F

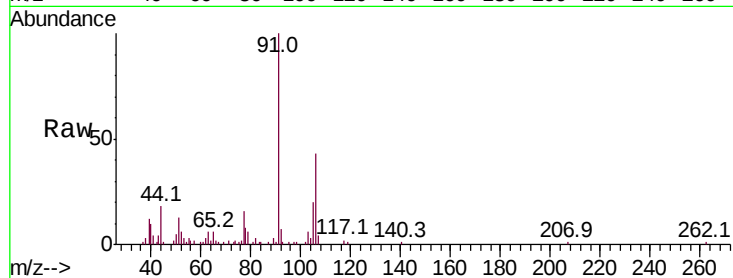
ClientSampled :

Tot Ion:106 Resp: 12663

Ion Ratio Lower Upper

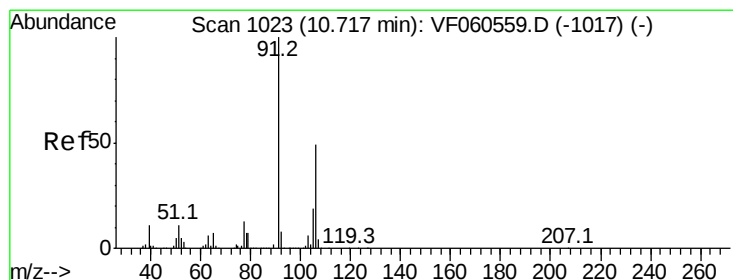
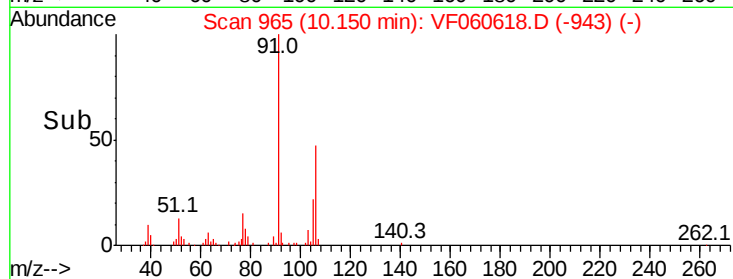
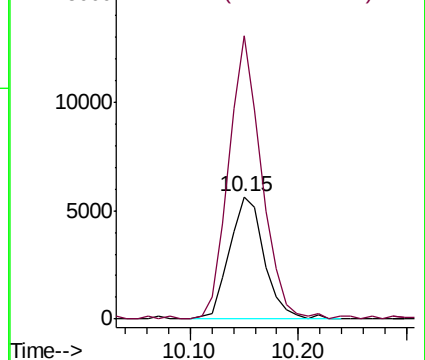
106 100

91 231.4 153.9 230.9#



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0



#69

o-Xylene

Concen: 1.022 ug/l

RT: 10.73 min Scan# 1024

Delta R.T. 0.01 min

Lab File: VF060618.D

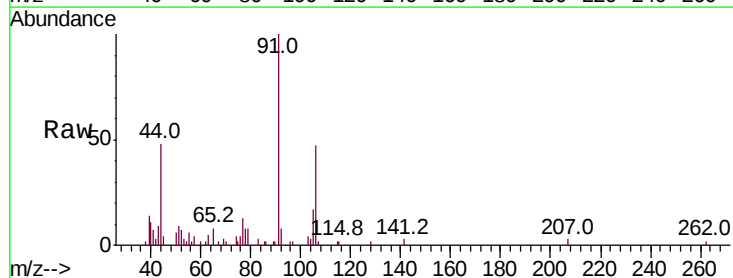
Acq: 6 Nov 2018 17:55

Tgt Ion:106 Resp: 6241

Ion Ratio Lower Upper

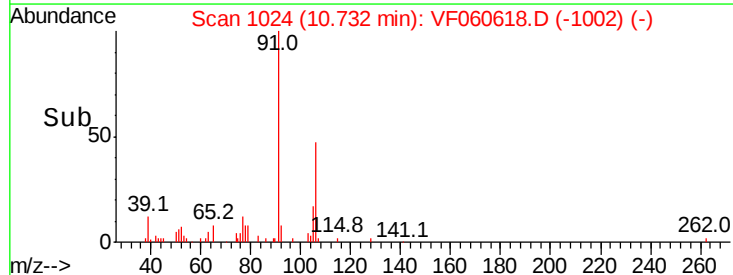
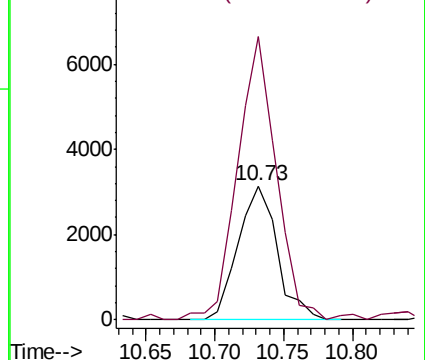
106 100

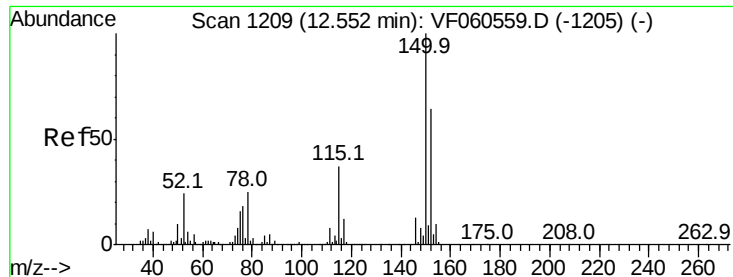
91 211.8 101.8 305.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VF0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. 0.01 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

Instrument :

MSVOA_F

ClientSampled :

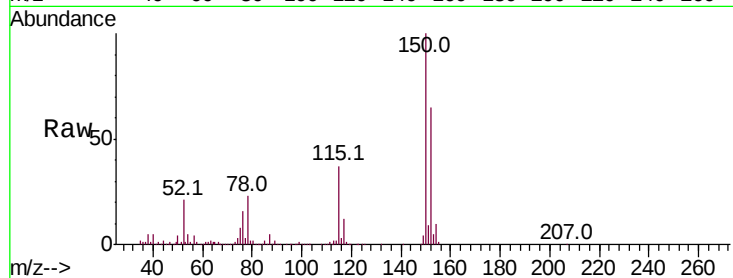
Tot Ion:152 Resp: 168867

Ion Ratio Lower Upper

152 100

115 56.9 29.6 88.8

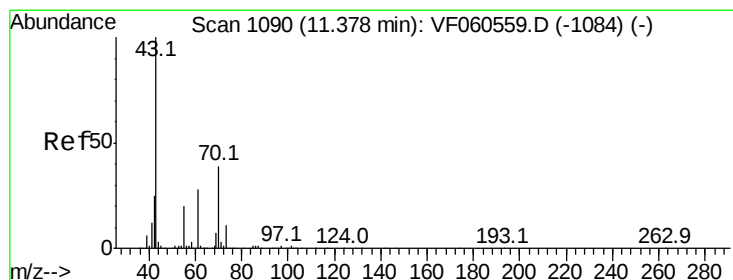
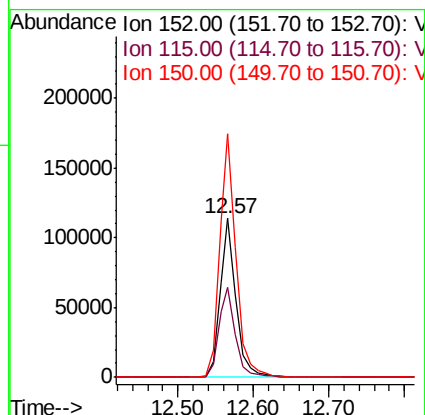
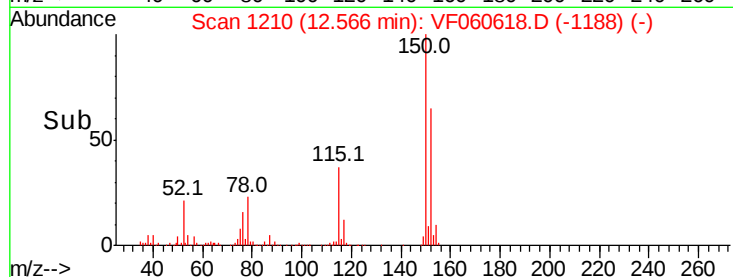
150 153.1 0.0 315.6



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#74

N-ethyl acetate

Concen: Below Cal

RT: 11.37 min Scan# 1089

Delta R.T. -0.01 min

Lab File: VF060618.D

Acq: 6 Nov 2018 17:55

Tgt Ion: 43 Resp: 1203

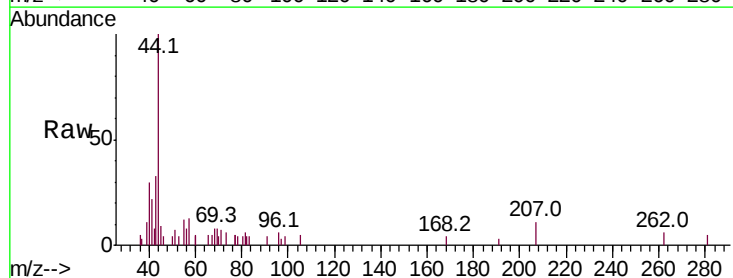
Ion Ratio Lower Upper

43 100

70 13.6 30.9 46.3#

55 35.8 16.6 24.8#

61 0.0 22.0 33.0#

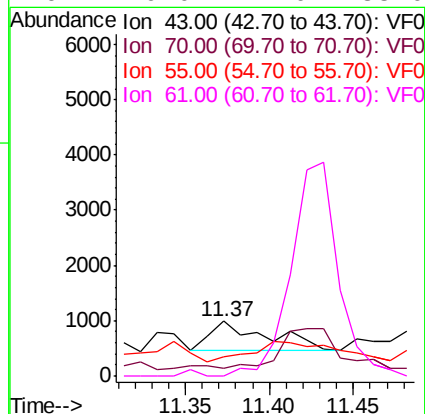
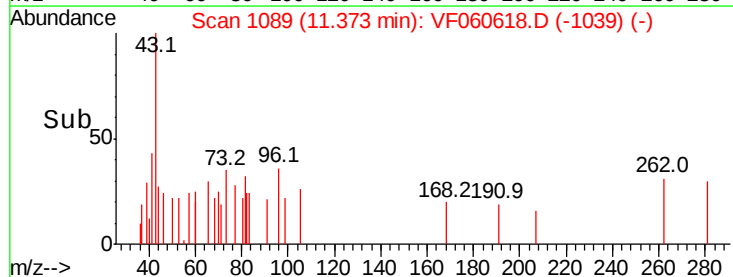


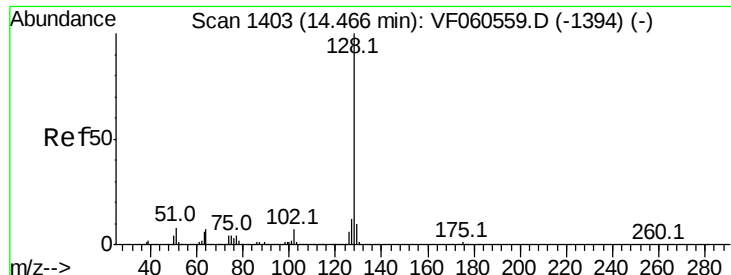
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#95
Naphthalene
Concen: 1.384 ug/l
RT: 14.47 min Scan# 1403
Delta R.T. 0.00 min
Lab File: VF060618.D
Acq: 6 Nov 2018 17:55

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:128 Resp: 9961
Ion Ratio Lower Upper
128 100
127 14.9 9.4 14.0#
129 9.3 8.4 12.6

