

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121918\
 Data File : VF061084.D
 Acq On : 19 Dec 2018 14:48
 Operator : VA/AP
 Sample : J6388-06
 Misc : 5.96g/5mL/MSVOA-F/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 20 02:22:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F121918S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 20 00:56:59 2018
 Response via : Initial Calibration

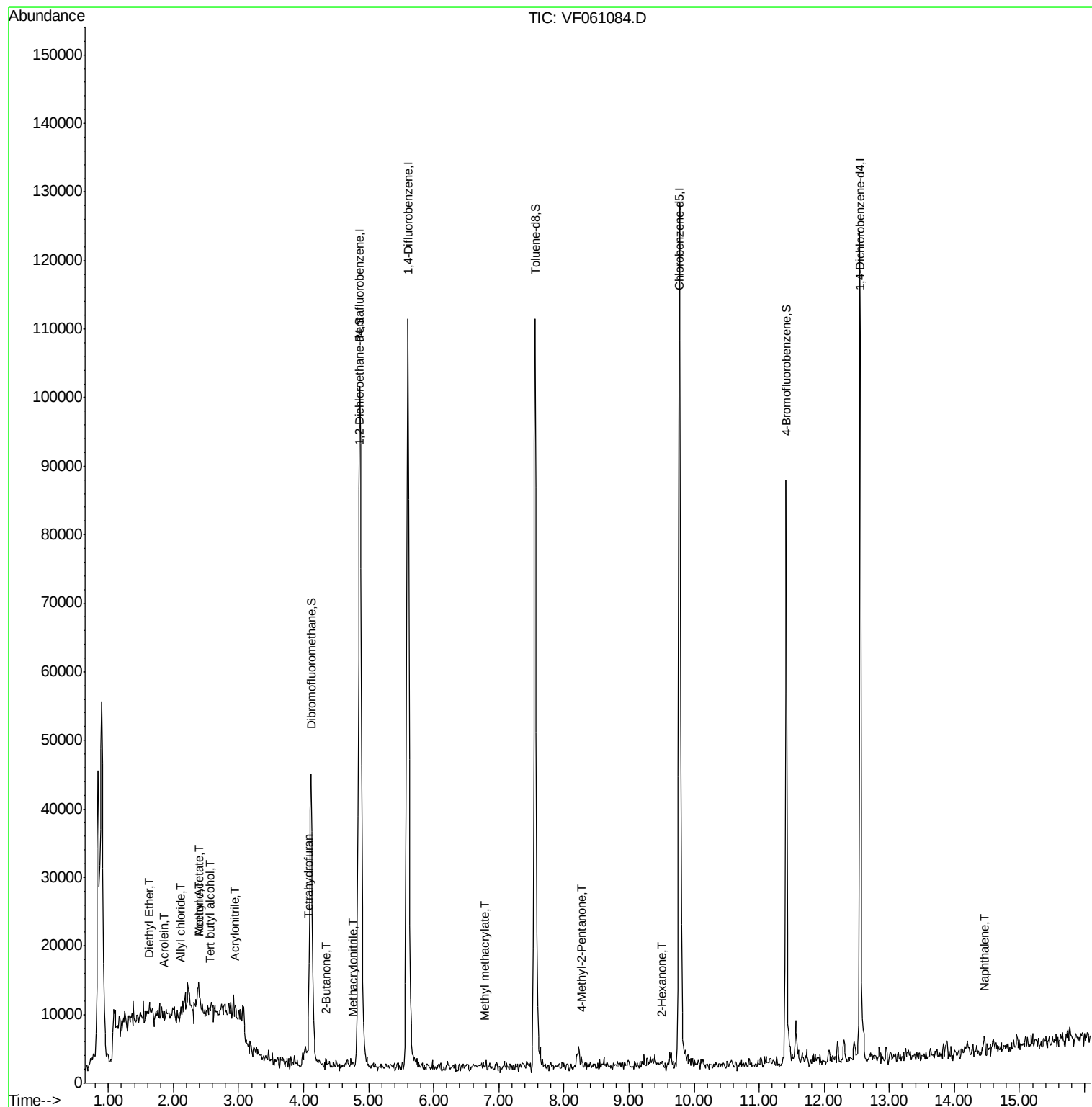
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	77341	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	126348	50.00	ug/l	0.01
63) Chlorobenzene-d5	9.78	117	90203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	29693	50.00	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	31792	31.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	63.92%	
35) Dibromofluoromethane	4.11	113	39525	39.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	78.10%	
50) Toluene-d8	7.56	98	90796	31.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	63.32%	
62) 4-Bromofluorobenzene	11.41	95	31716	23.99	ug/l	0.00
Spiked Amount 50.000			Recovery	=	47.98%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.62	74	433	1.813	ug/l	89
11) Tert butyl alcohol	2.57	59	117	2.915	ug/l #	65
13) Acrolein	1.86	56	402	13.859	ug/l	85
14) Allyl chloride	2.10	41	1049	1.479	ug/l #	45
15) Acrylonitrile	2.94	53	547	5.893	ug/l #	47
16) Acetone	2.39	43	2572	12.934	ug/l	97
18) Methyl Acetate	2.39	43	3016	7.331	ug/l #	66
20) Methylene Chloride	2.22	84	2249	Below Cal		94
25) 2-Butanone	4.35	43	2075	6.434	ug/l	92
29) Tetrahydrofuran	4.07	42	370	2.819	ug/l #	53
41) Methacrylonitrile	4.75	41	600	1.863	ug/l #	50
48) Methyl methacrylate	6.78	41	822	1.599	ug/l #	46
51) 4-Methyl-2-Pentanone	8.27	43	1469	2.909	ug/l #	38
59) 2-Hexanone	9.51	43	961	2.631	ug/l	81
70) Styrene	10.79	104	256	Below Cal	#	22
87) 1,3-Dichlorobenzene	12.48	146	269	Below Cal	#	30
95) Naphthalene	14.45	128	1587	1.244	ug/l #	85

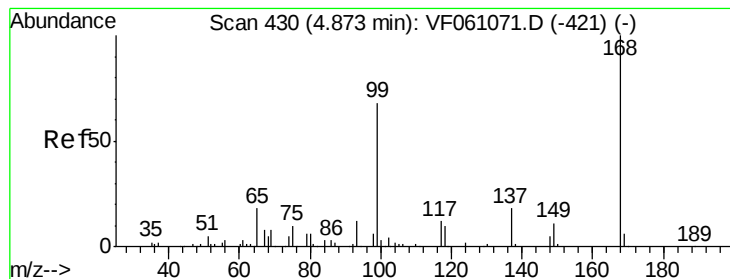
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 20 00:56:59 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. 0.00 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

Instrument :

MSVOA_F

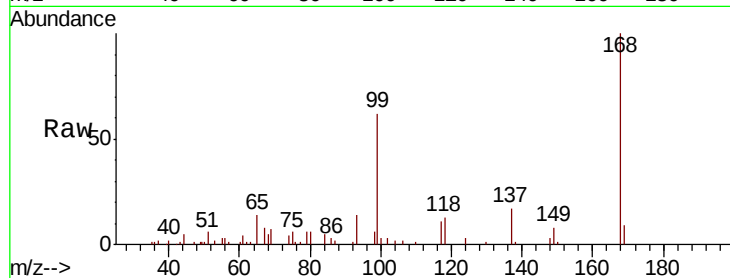
ClientSampled :

Tot Ion:168 Resp: 77341

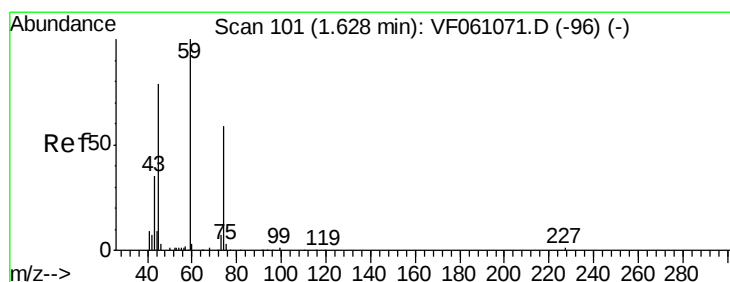
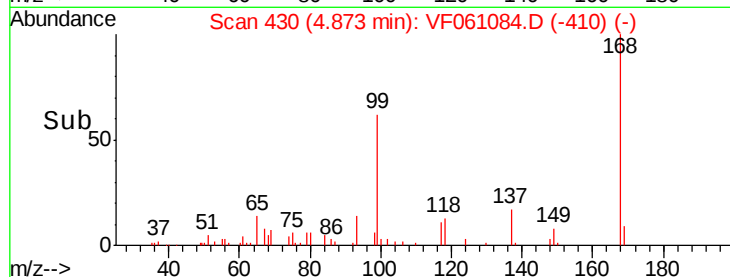
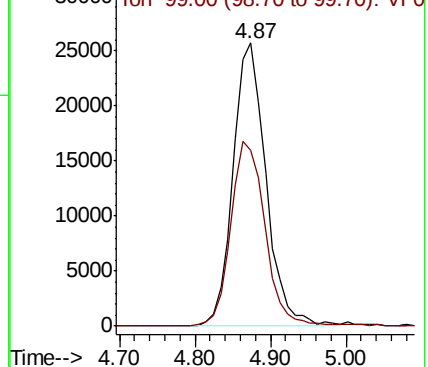
Ion Ratio Lower Upper

168 100

99 62.0 54.4 81.6



Abundance Ion 168.00 (167.70 to 168.70): VF061071.D (-421) (-)



#8

Diethyl Ether

Concen: 1.813 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.01 min

Lab File: VF061084.D

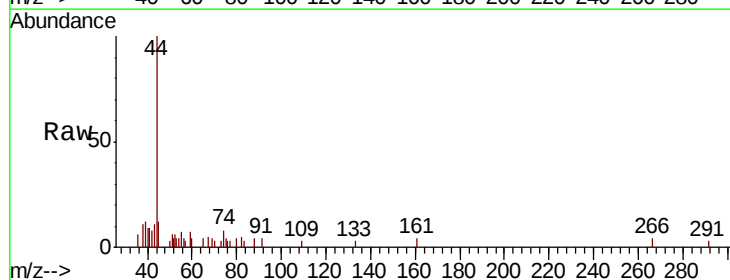
Acq: 19 Dec 2018 14:48

Tgt Ion: 74 Resp: 433

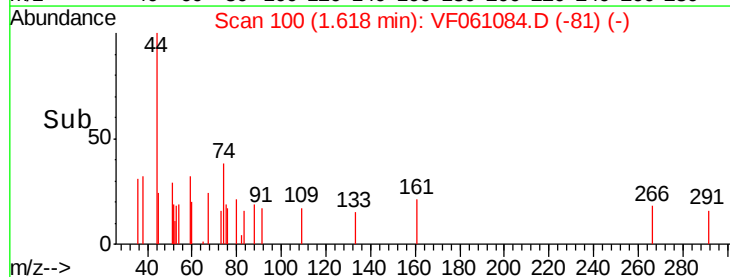
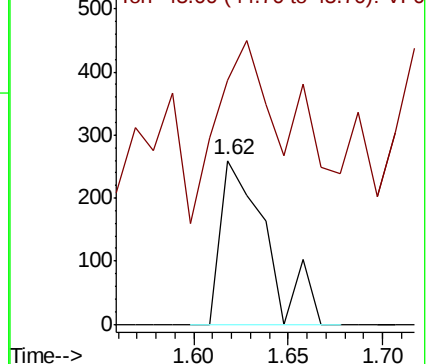
Ion Ratio Lower Upper

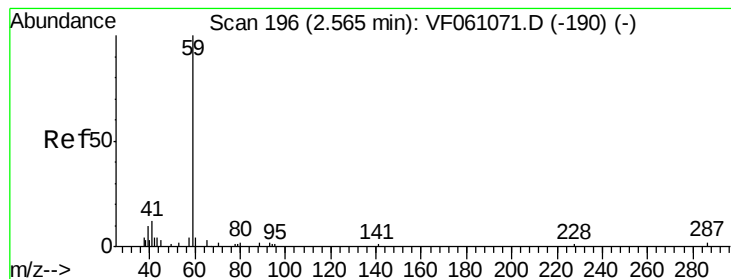
74 100

45 148.8 67.8 203.4



Abundance Ion 74.00 (73.70 to 74.70): VF061071.D (-96) (-)



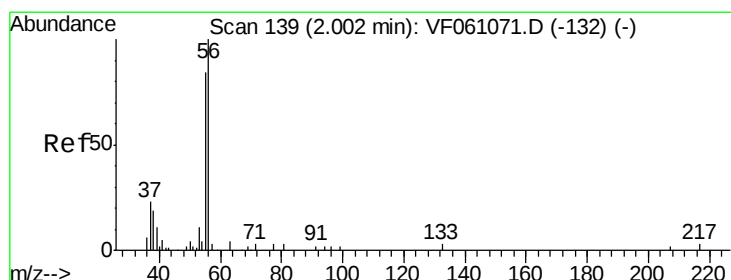
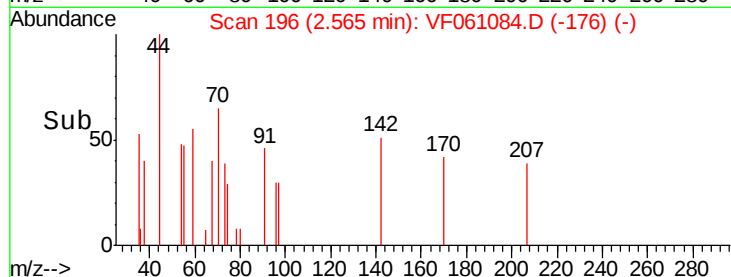
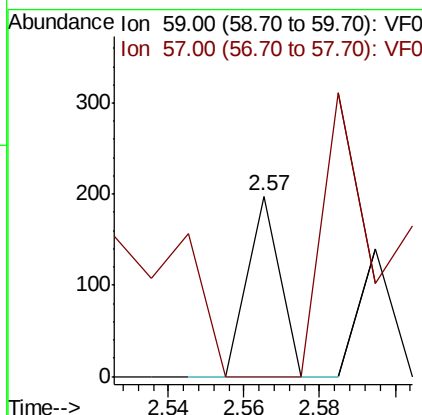
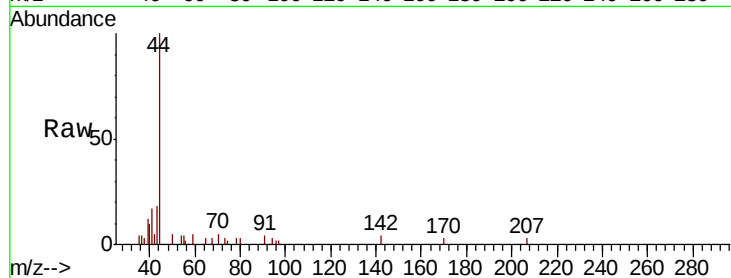


#11

Tert butyl alcohol
 Concen: 2.915 ug/l
 RT: 2.57 min Scan# 196
 Delta R.T. 0.00 min
 Lab File: VF061084.D
 Acq: 19 Dec 2018 14:48

Instrument :
 MSVOA_F
 ClientSampleId :

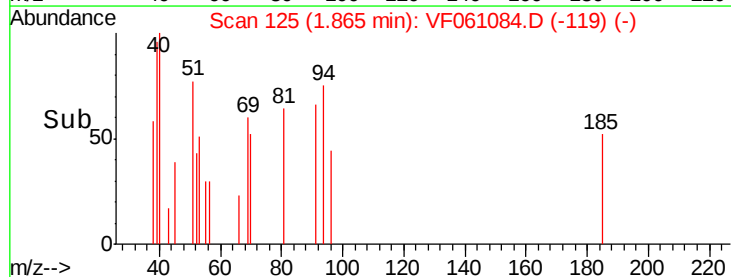
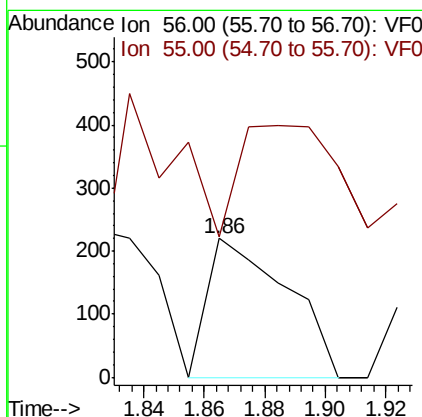
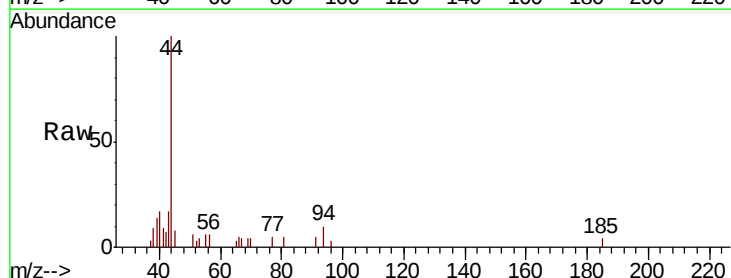
Tot Ion: 59 Resp: 117
 Ion Ratio Lower Upper
 59 100
 57 0.0 11.5 17.3#

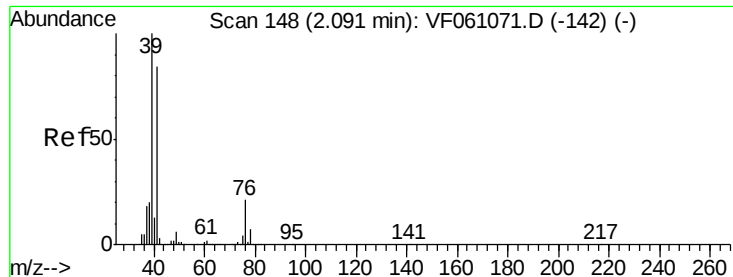


#13

Acrolein
 Concen: 13.859 ug/l
 RT: 1.86 min Scan# 125
 Delta R.T. -0.14 min
 Lab File: VF061084.D
 Acq: 19 Dec 2018 14:48

Tgt Ion: 56 Resp: 402
 Ion Ratio Lower Upper
 56 100
 55 101.4 70.2 105.2

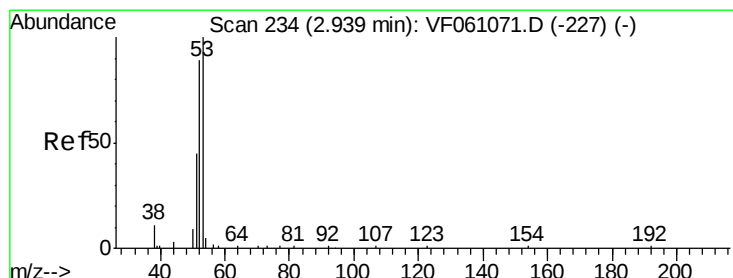
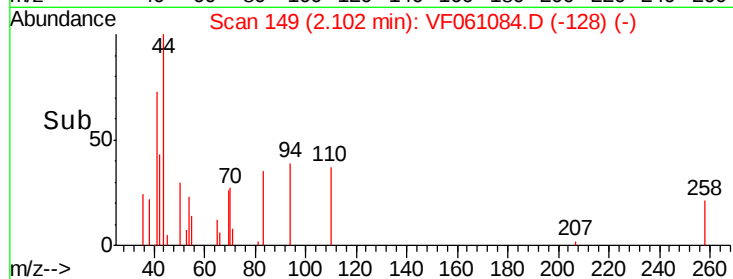
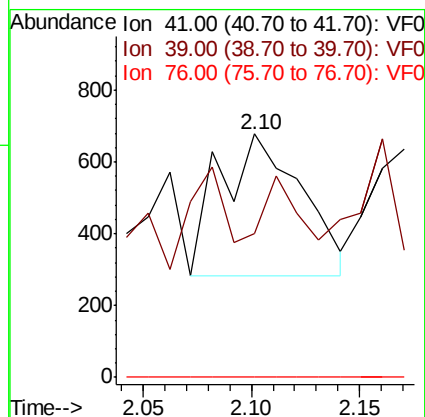
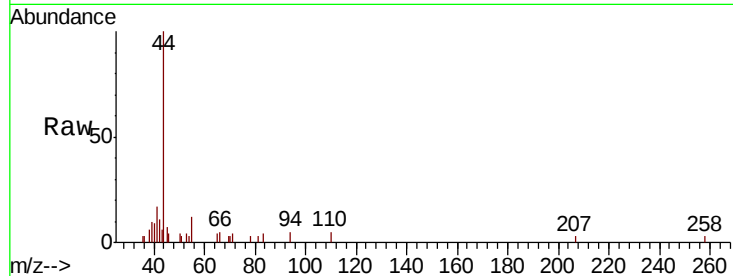




#14
Allvl chloride
Concen: 1.479 ug/l
RT: 2.10 min Scan# 149
Delta R.T. 0.01 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

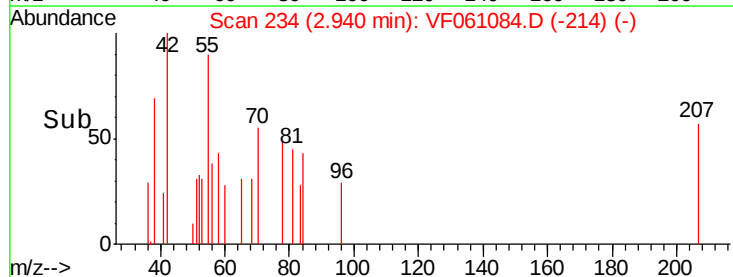
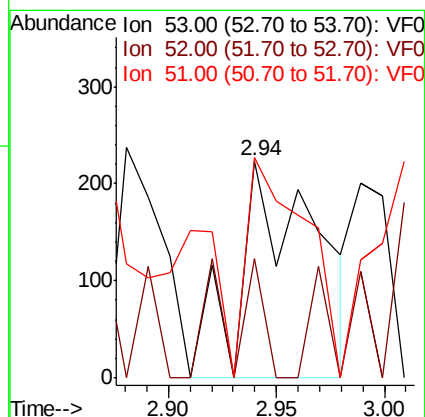
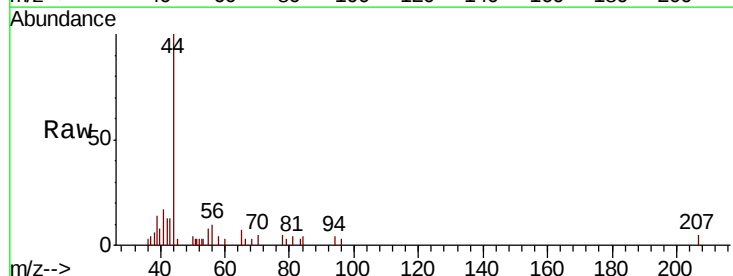
Instrument :
MSVOA_F
ClientSampleId :

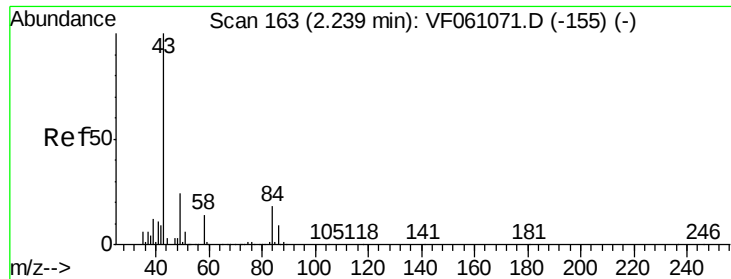
Tot Ion: 41 Resp: 1049
Ion Ratio Lower Upper
41 100
39 59.1 96.4 144.6#
76 0.0 25.4 38.0#



#15
Acrylonitrile
Concen: 5.893 ug/l
RT: 2.94 min Scan# 234
Delta R.T. 0.00 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Tgt Ion: 53 Resp: 547
Ion Ratio Lower Upper
53 100
52 55.2 71.3 106.9#
51 101.8 36.8 55.2#

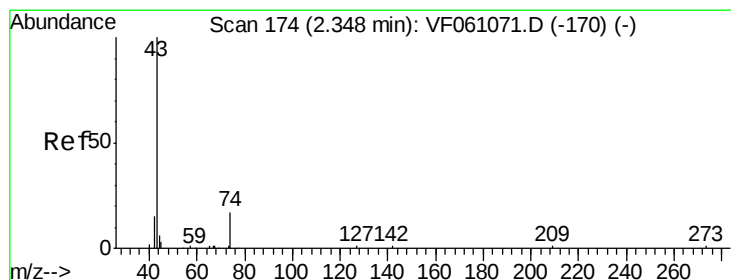
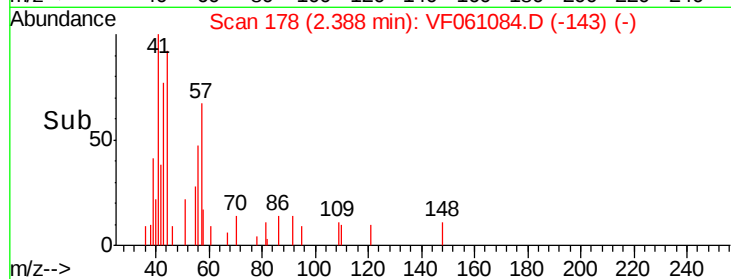
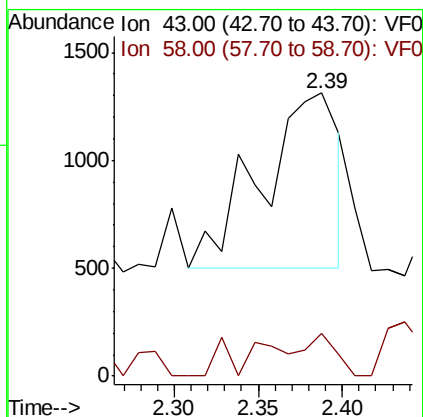
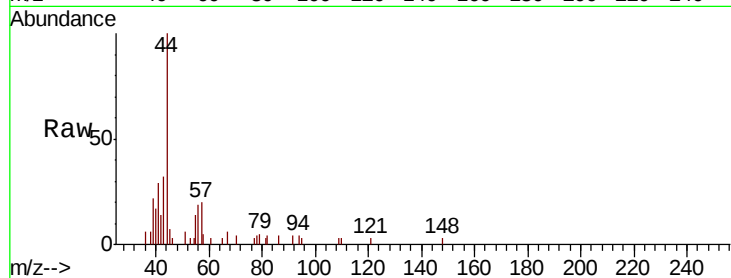




#16
Acetone
Concen: 12.934 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.15 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

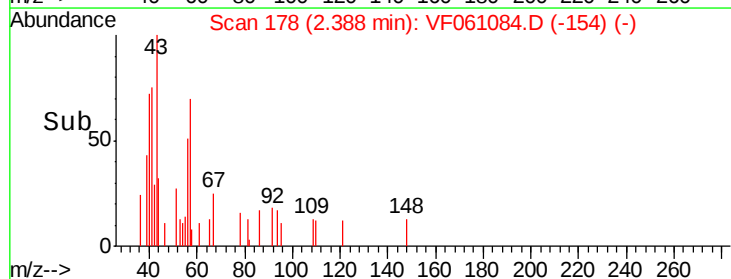
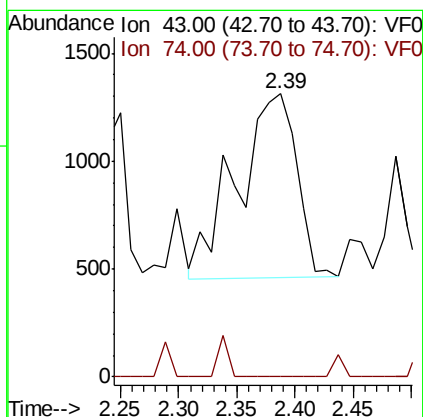
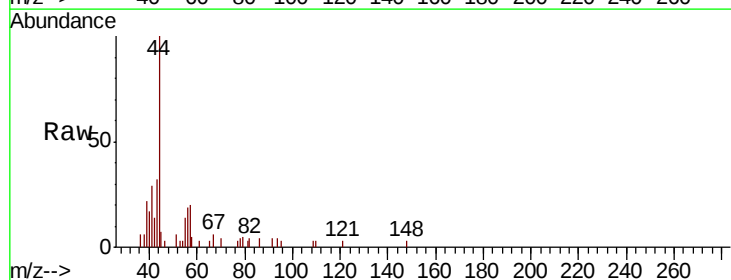
Instrument :
MSVOA_F
ClientSampleId :

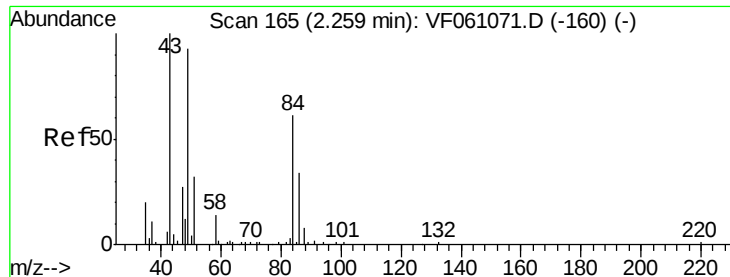
Tot Ion: 43 Resp: 2572
Ion Ratio Lower Upper
43 100
58 14.9 11.1 16.7



#18
Methyl Acetate
Concen: 7.331 ug/l
RT: 2.39 min Scan# 178
Delta R.T. 0.04 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Tgt Ion: 43 Resp: 3016
Ion Ratio Lower Upper
43 100
74 0.0 11.0 16.6#

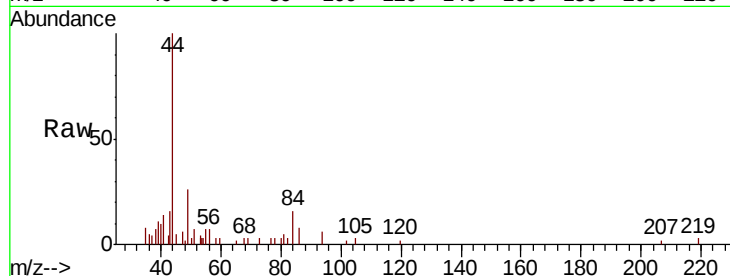




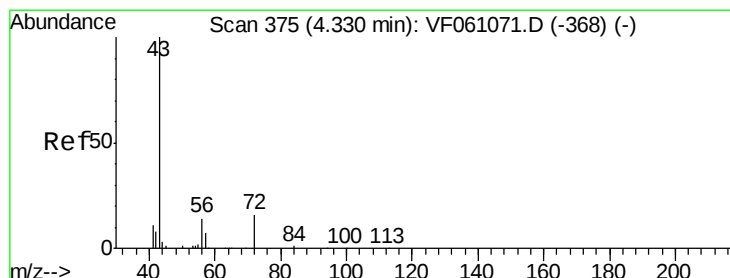
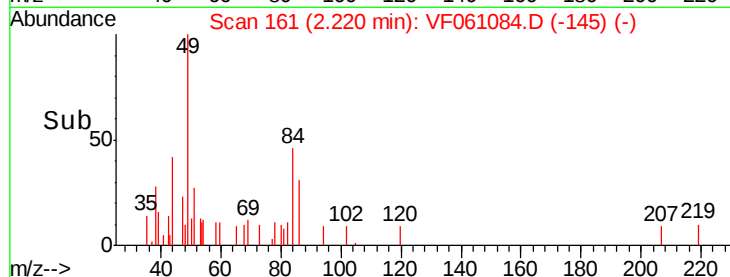
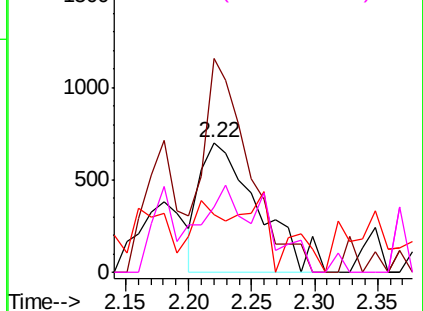
#20
Methvlene Chloride
Concen: Below Cal
RT: 2.22 min Scan# 161
Delta R.T. -0.04 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 84 Resp: 2249
Ion Ratio Lower Upper
84 100
49 164.9 129.4 194.2
51 44.9 44.0 66.0
86 50.6 46.3 69.5

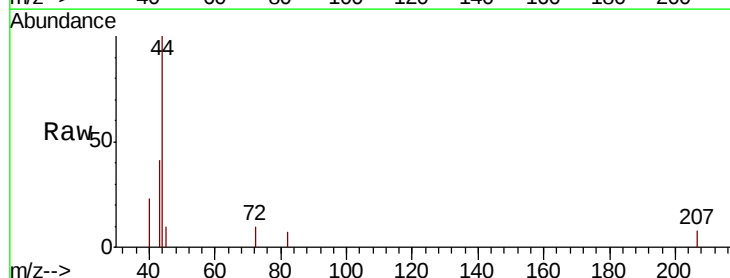


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

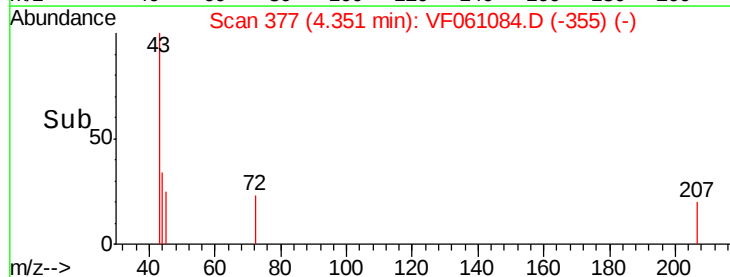
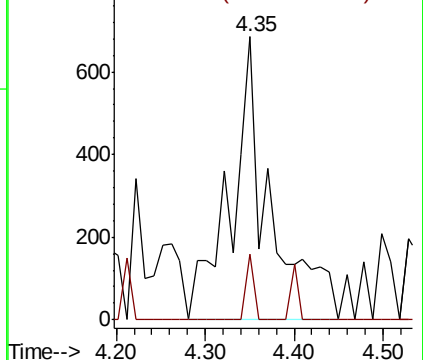


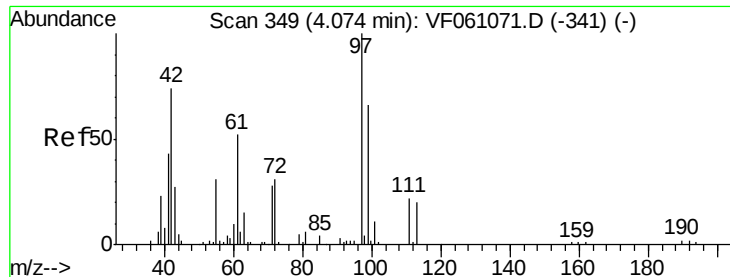
#25
2-Butanone
Concen: 6.434 ug/l
RT: 4.35 min Scan# 377
Delta R.T. 0.02 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Tgt Ion: 43 Resp: 2075
Ion Ratio Lower Upper
43 100
72 23.4 15.6 23.4



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 72.00 (71.70 to 72.70): VF0





#29

Tetrahydrofuran

Concen: 2.819 ug/l

RT: 4.07 min Scan# 349

Delta R.T. 0.00 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

Instrument :

MSVOA_F

ClientSampled :

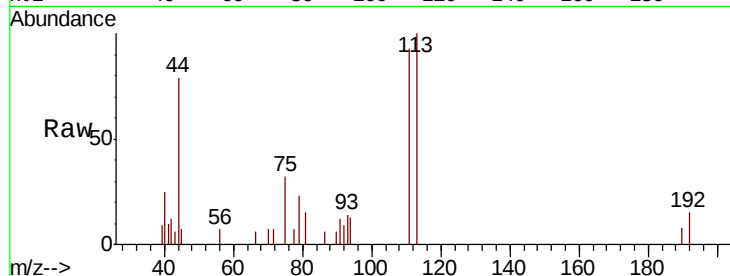
Tot Ion: 42 Resp: 370

Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

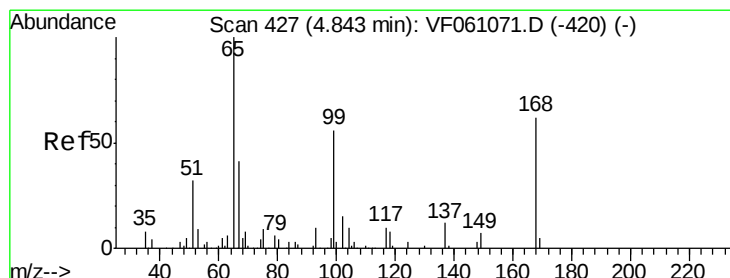
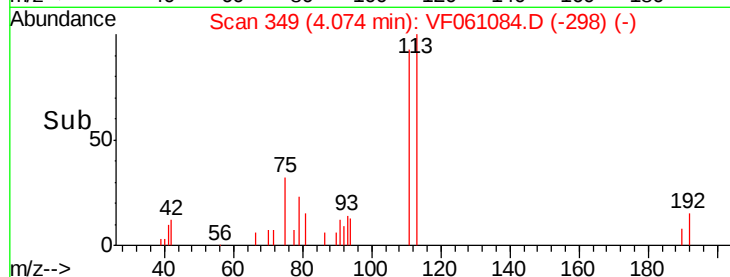
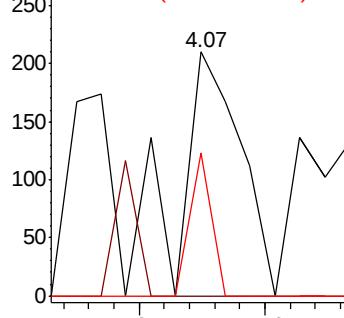
71 19.7 29.7 44.5#



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: 31.960 ug/l

RT: 4.84 min Scan# 427

Delta R.T. 0.00 min

Lab File: VF061084.D

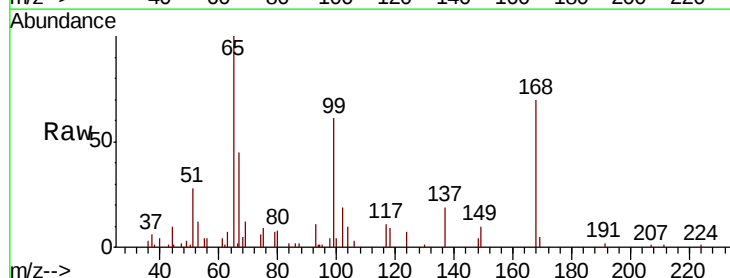
Acq: 19 Dec 2018 14:48

Tgt Ion: 65 Resp: 31792

Ion Ratio Lower Upper

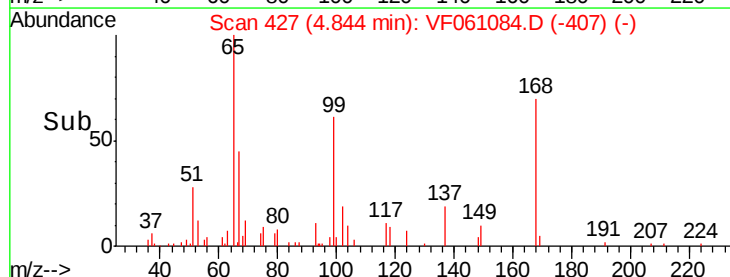
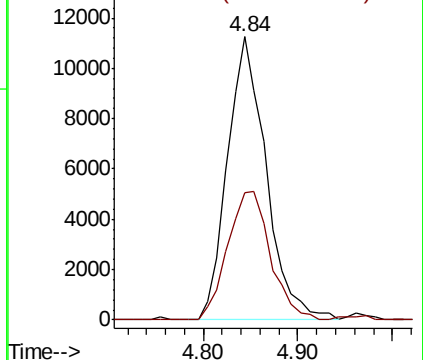
65 100

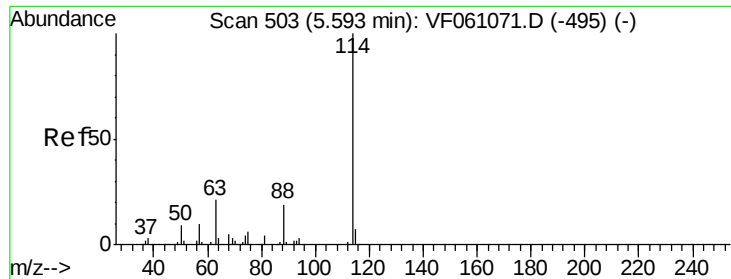
67 45.1 0.0 94.6



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: VF061084.D

Acq: 19 Dec 2018 14:48

Instrument :
MSVOA_F
ClientSampleId :

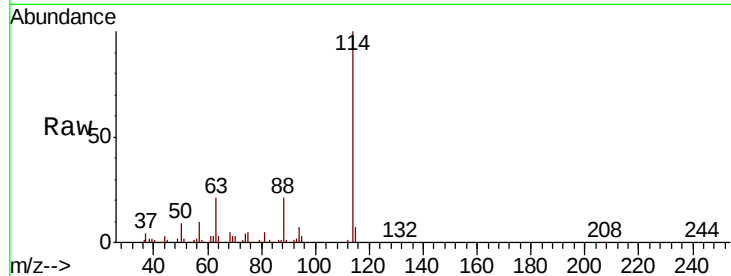
Tot Ion:114 Resp: 126348

Ion Ratio Lower Upper

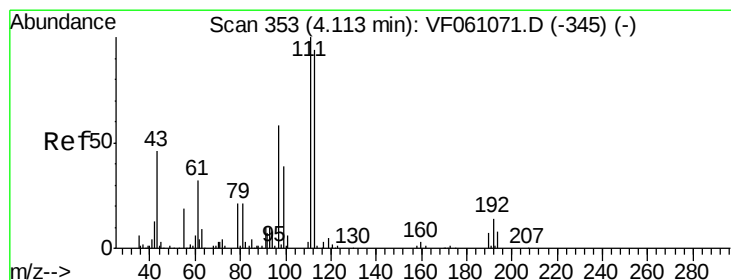
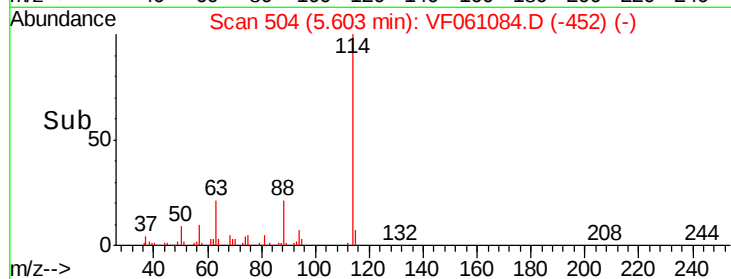
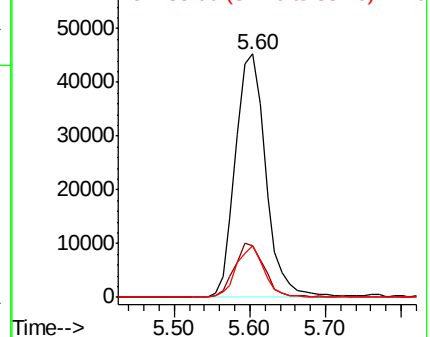
114 100

63 21.0 0.0 41.6

88 21.3 0.0 38.0



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: 39.052 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.00 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

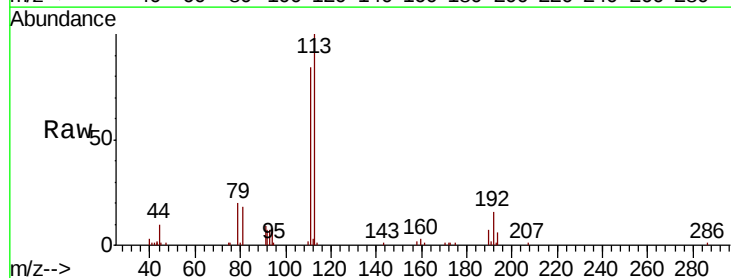
Tgt Ion:113 Resp: 39525

Ion Ratio Lower Upper

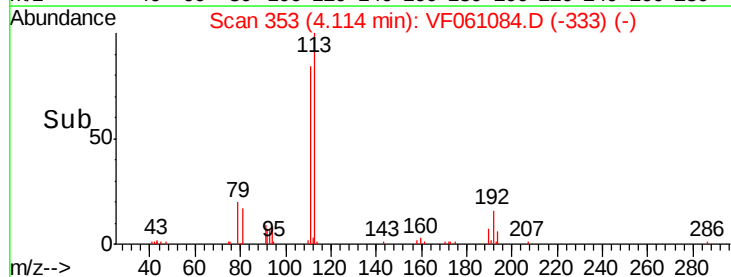
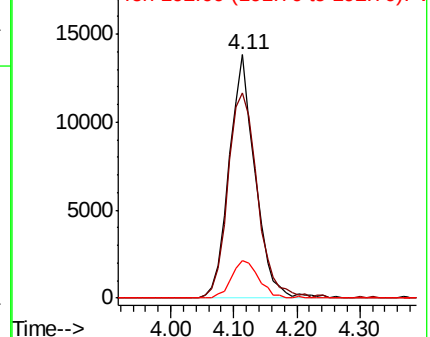
113 100

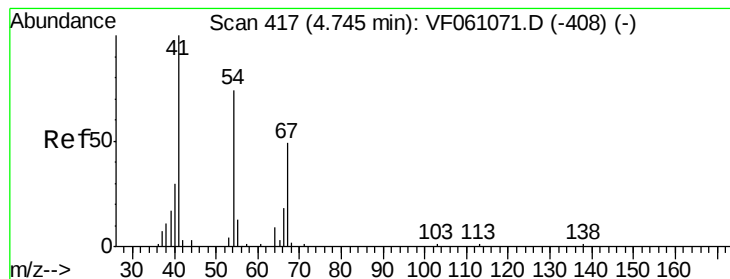
111 84.3 85.2 127.8#

192 15.5 12.8 19.2



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: 1.863 ug/l

RT: 4.75 min Scan# 418

Delta R.T. 0.01 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 41 Resp: 600

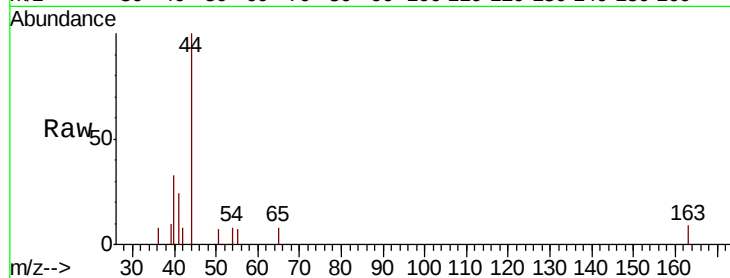
Ion Ratio Lower Upper

41 100

39 43.8 45.7 68.5#

67 0.0 38.9 58.3#

52 0.0 35.2 52.8#

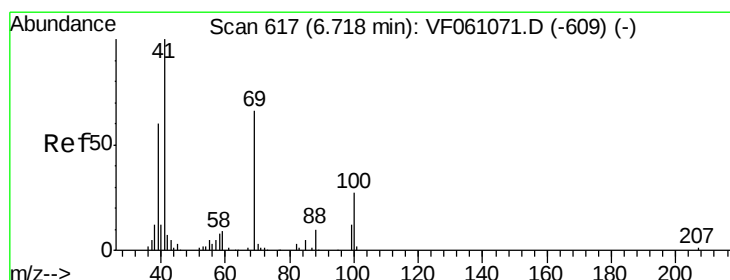
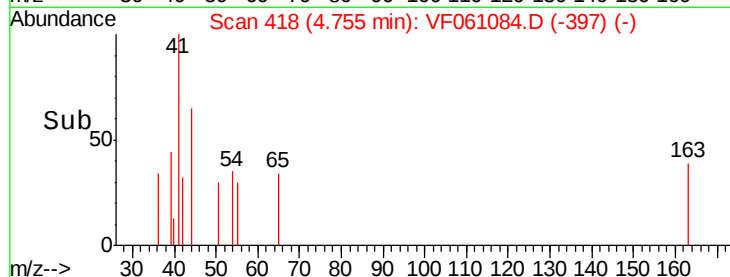
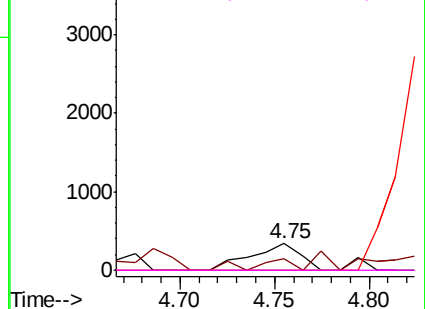


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0



#48

Methyl methacrylate

Concen: 1.599 ug/l

RT: 6.78 min Scan# 623

Delta R.T. 0.06 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

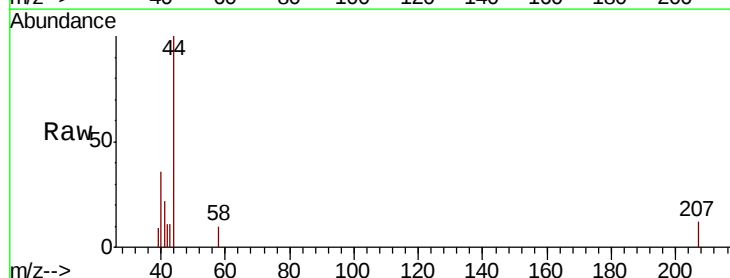
Tgt Ion: 41 Resp: 822

Ion Ratio Lower Upper

41 100

69 0.0 52.7 79.1#

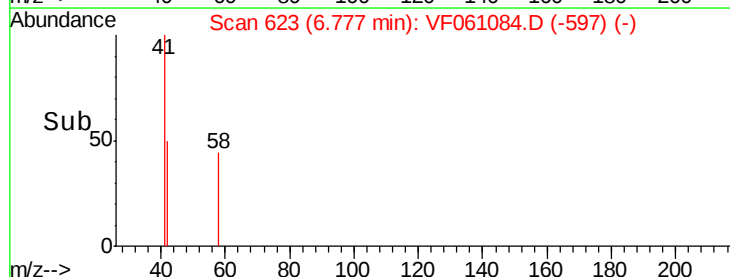
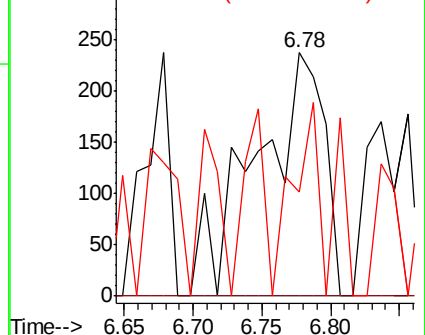
39 43.0 47.8 71.6#

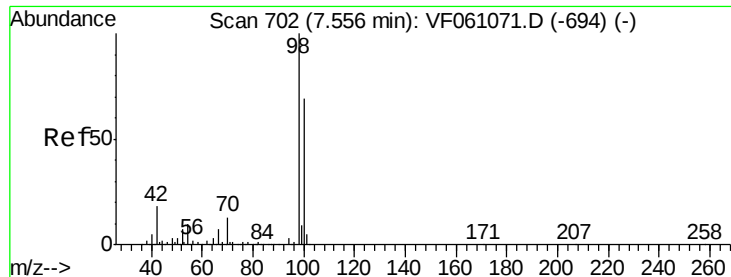


Abundance Ion 41.00 (40.70 to 41.70): VF0

Ion 69.00 (68.70 to 69.70): VF0

Ion 39.00 (38.70 to 39.70): VF0





#50

Toluene-d8

Concen: 31.656 ug/l

RT: 7.56 min Scan# 702

Delta R.T. 0.00 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

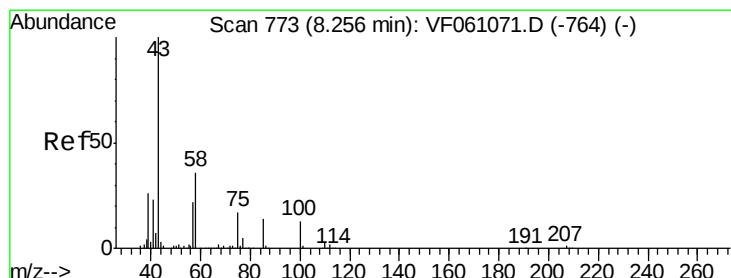
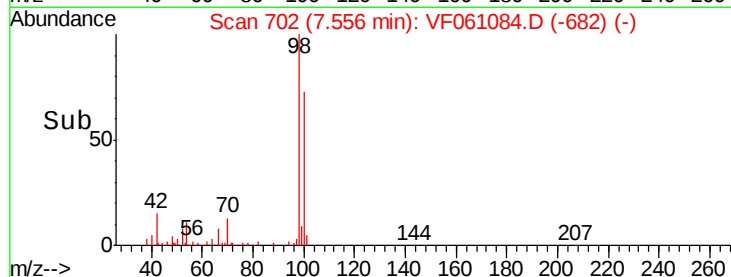
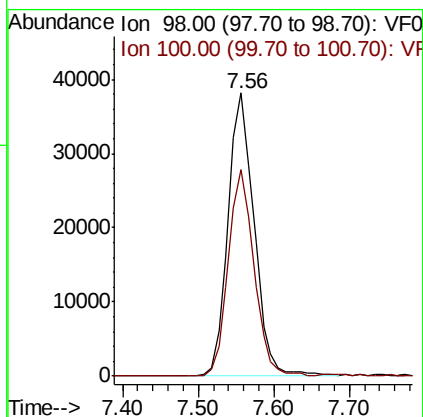
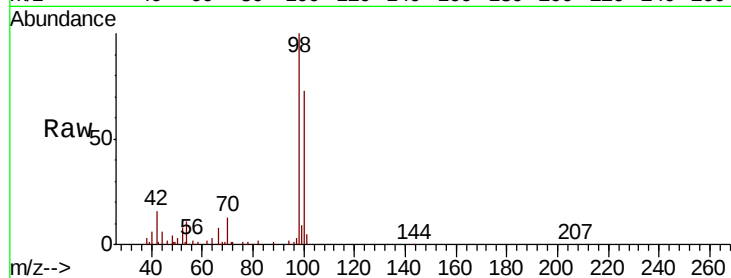
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 90796

Ion Ratio Lower Upper

98 100

100 72.9 55.3 82.9



#51

4-Methyl-2-Pentanone

Concen: 2.909 ug/l

RT: 8.27 min Scan# 774

Delta R.T. 0.01 min

Lab File: VF061084.D

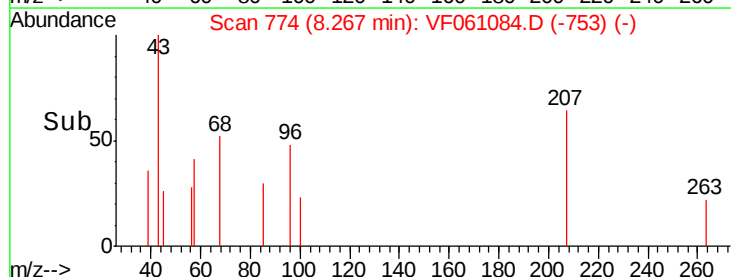
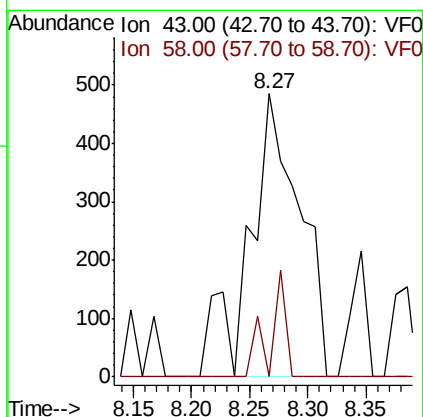
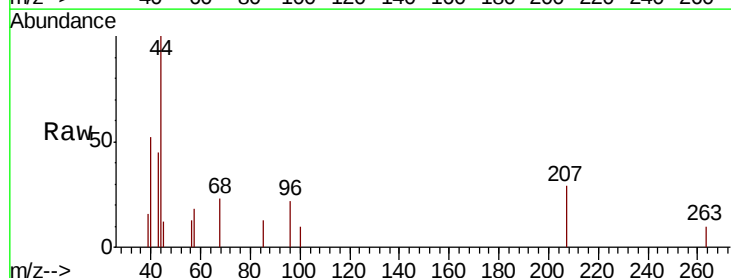
Acq: 19 Dec 2018 14:48

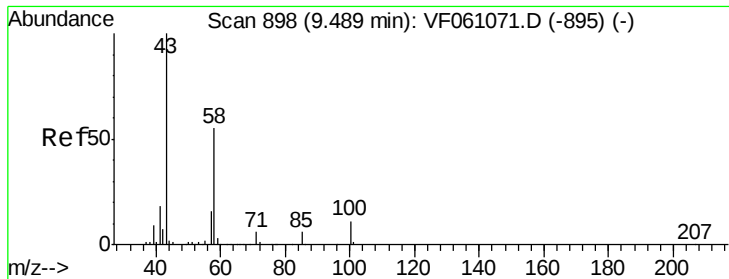
Tgt Ion: 43 Resp: 1469

Ion Ratio Lower Upper

43 100

58 0.0 29.1 43.7#

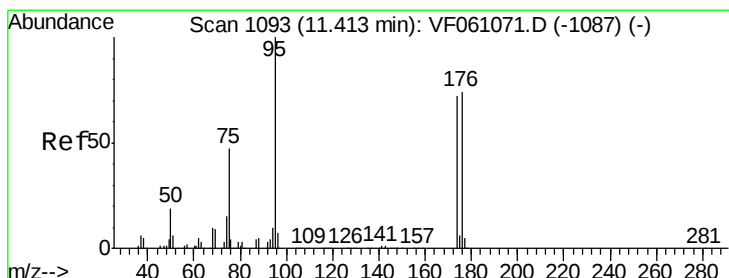
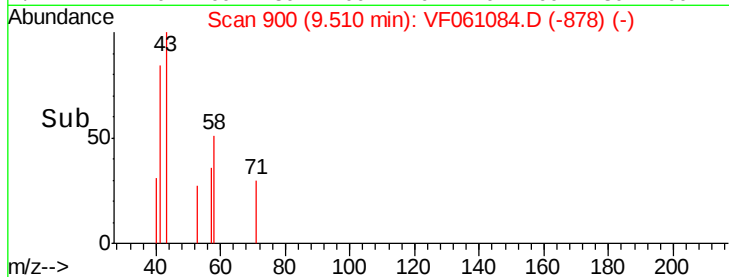
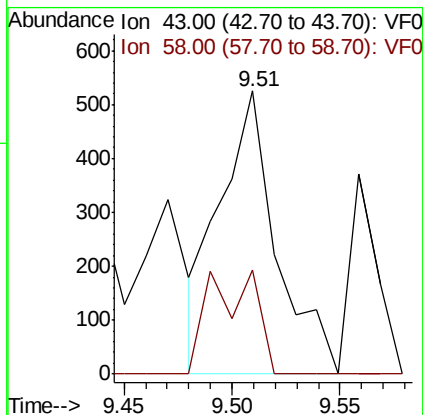
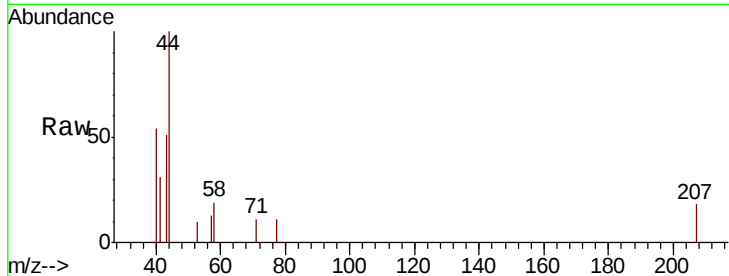




#59
2-Hexanone
Concen: 2.631 ug/l
RT: 9.51 min Scan# 900
Delta R.T. 0.02 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

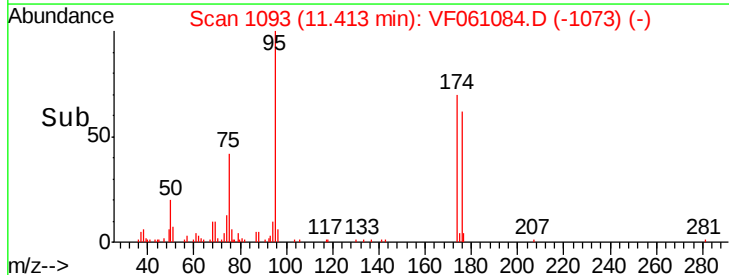
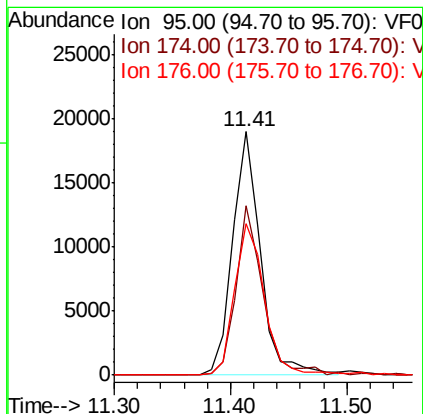
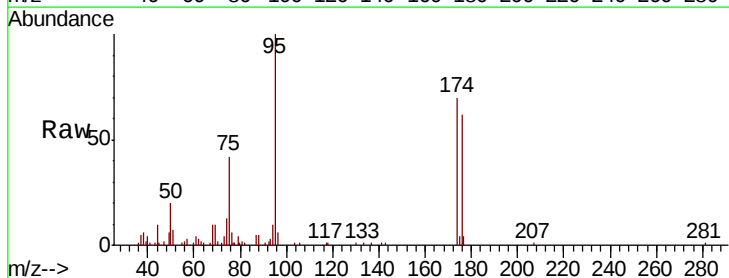
Instrument :
MSVOA_F
ClientSampled :

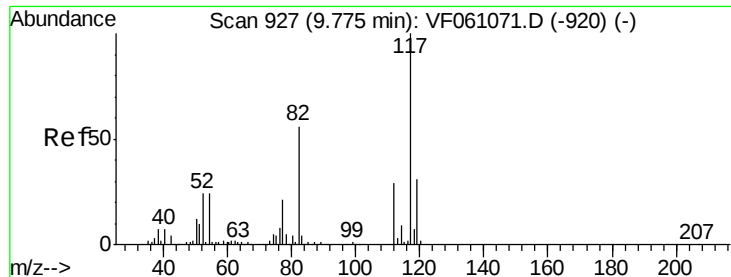
Tot Ion: 43 Resp: 961
Ion Ratio Lower Upper
43 100
58 36.8 25.1 75.2



#62
4-Bromofluorobenzene
Concen: 23.986 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. 0.00 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Tgt Ion: 95 Resp: 31716
Ion Ratio Lower Upper
95 100
174 69.8 0.0 143.8
176 62.2 0.0 147.6

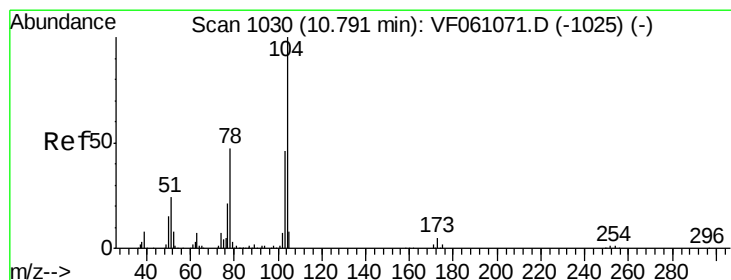
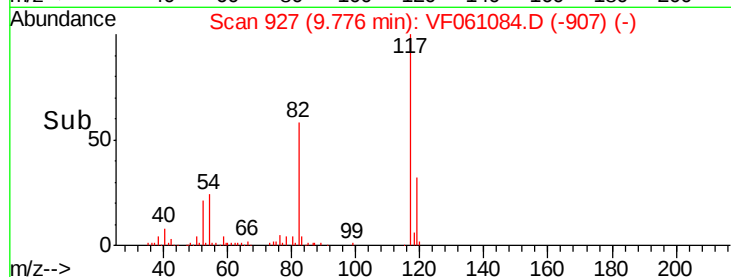
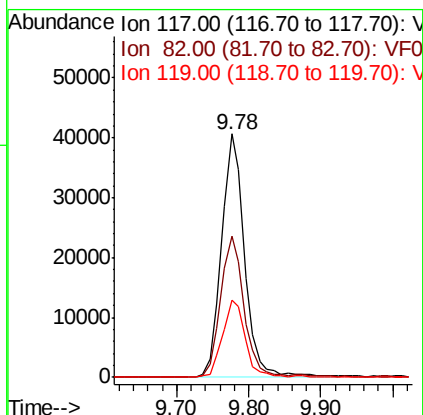
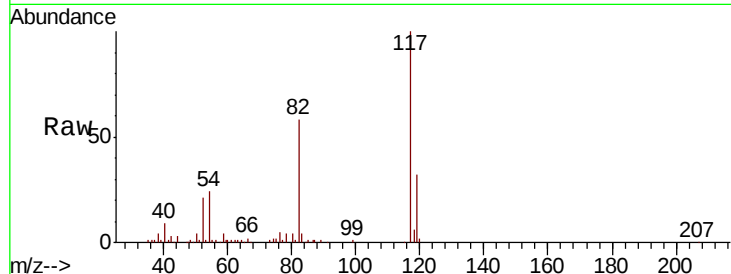




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 927
Delta R.T. 0.00 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

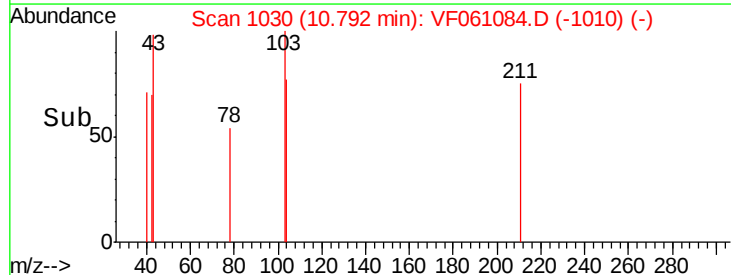
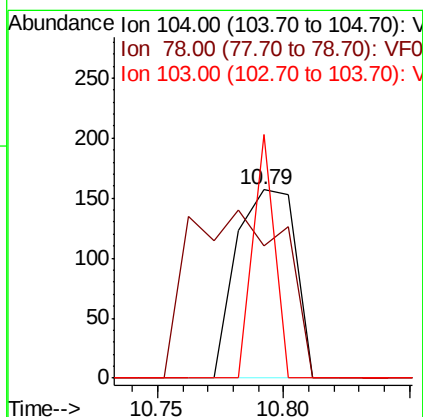
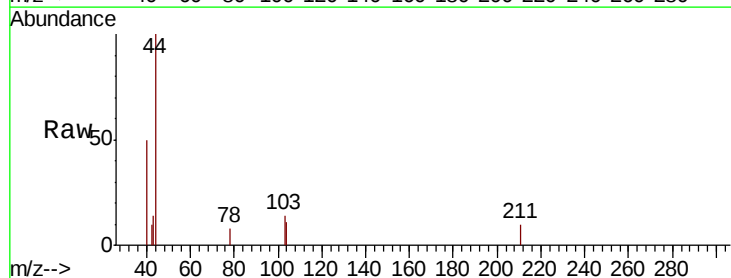
Instrument :
MSVOA_F
ClientSampleId :

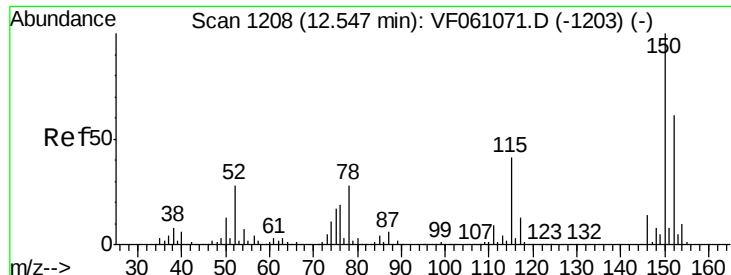
Tot Ion:117 Resp: 90203
Ion Ratio Lower Upper
117 100
82 58.1 45.0 67.4
119 31.8 24.8 37.2



#70
Styrene
Concen: Below Cal
RT: 10.79 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Tgt Ion:104 Resp: 256
Ion Ratio Lower Upper
104 100
78 70.1 38.4 57.6#
103 129.3 37.0 55.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1209

Delta R.T. 0.01 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

Instrument :

MSVOA_F

ClientSampleId :

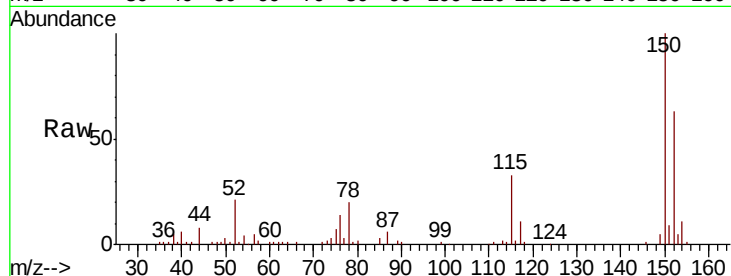
Tot Ion:152 Resp: 29693

Ion Ratio Lower Upper

152 100

115 52.9 33.3 99.9

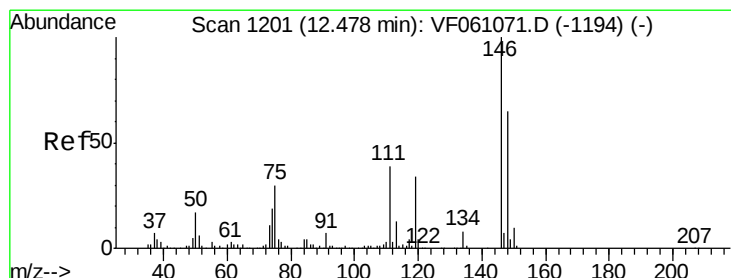
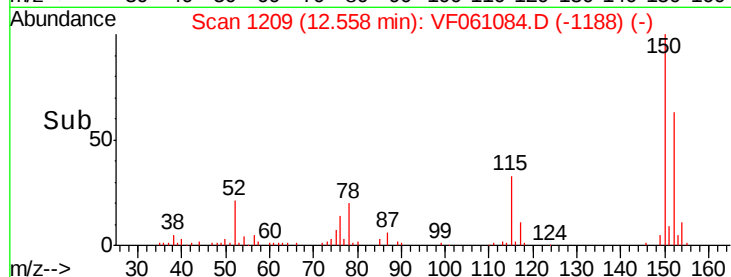
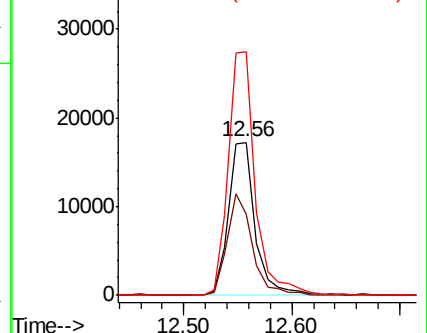
150 159.3 0.0 328.2



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



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 12.48 min Scan# 1201

Delta R.T. 0.00 min

Lab File: VF061084.D

Acq: 19 Dec 2018 14:48

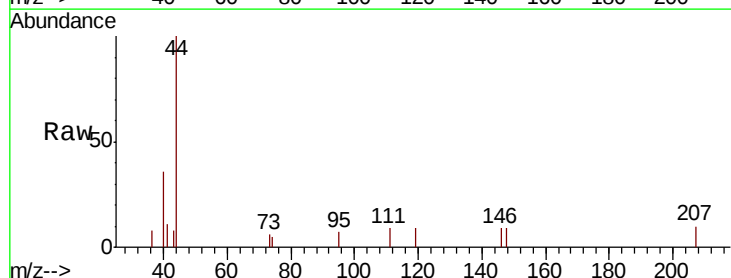
Tgt Ion:146 Resp: 269

Ion Ratio Lower Upper

146 100

111 105.6 19.3 57.9#

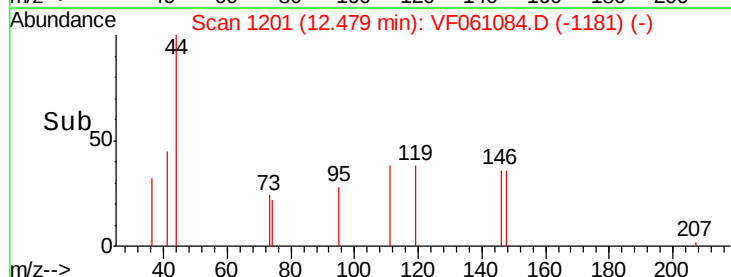
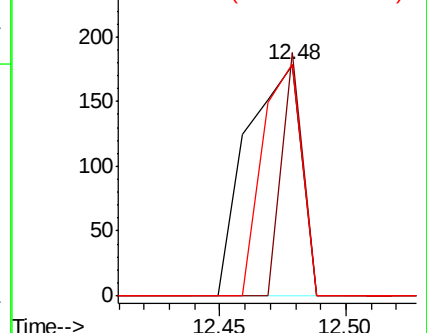
148 100.6 32.4 97.2#

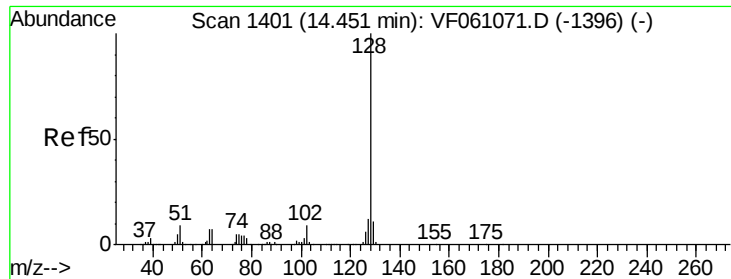


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

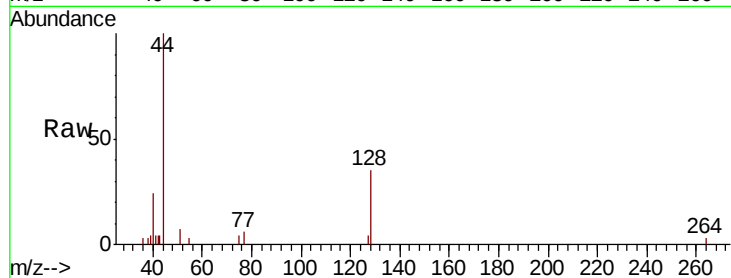




#95
Naphthalene
Concen: 1.244 ug/l
RT: 14.45 min Scan# 1401
Delta R.T. 0.00 min
Lab File: VF061084.D
Acq: 19 Dec 2018 14:48

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.4	14.2
129	0.0	8.8	13.2



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

