

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121718\
 Data File : VF061050.D
 Acq On : 17 Dec 2018 19:51
 Operator : VA/AP
 Sample : J6391-13RE
 Misc : 5.27g/5mL/MSVOA-F/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 18 03:09:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 27 01:36:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	33693	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	41020	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.79	117	24727	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.56	152	7385	50.00	ug/l	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.87	65	8850	22.30	ug/l	-0.01
Spiked Amount			Recovery	=	44.60%	
35) Dibromofluoromethane	4.13	113	12984	39.90	ug/l	-0.02
Spiked Amount			Recovery	=	79.80%	
50) Toluene-d8	7.57	98	40151	41.89	ug/l	-0.02
Spiked Amount			Recovery	=	83.78%	
62) 4-Bromofluorobenzene	11.43	95	9540	21.90	ug/l	-0.01
Spiked Amount			Recovery	=	43.80%	

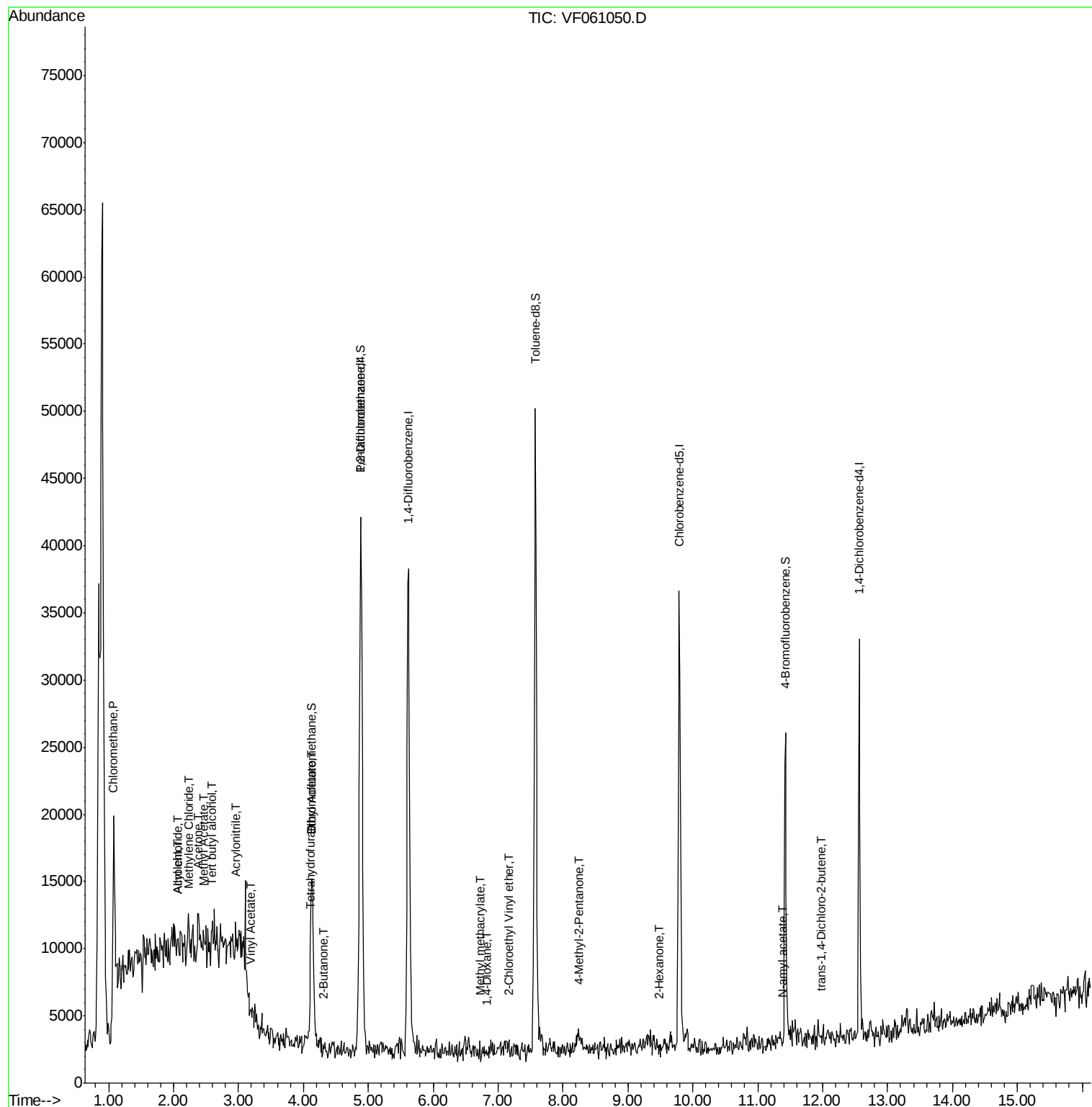
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.06	50	382	1.165	ug/l #	41
11) Tert butyl alcohol	2.58	59	120	7.375	ug/l #	62
13) Acrolein	2.07	56	579	37.559	ug/l	99
14) Allyl chloride	2.08	41	1117	3.359	ug/l #	54
15) Acrylonitrile	2.96	53	598	16.394	ug/l #	78
16) Acetone	2.38	43	1208	16.504	ug/l	99
18) Methyl Acetate	2.46	43	720	4.356	ug/l	99
20) Methylene Chloride	2.25	84	328	1.222	ug/l #	35
23) Vinyl Acetate	3.18	43	450	1.088	ug/l #	80
25) 2-Butanone	4.32	43	344	2.717	ug/l #	57
29) Tetrahydrofuran	4.10	42	127	2.367	ug/l #	37
37) Ethyl Acetate	4.12	43	347	1.877	ug/l #	14
41) Methacrylonitrile	4.76	41	159	Below Cal	#	23
43) Isopropyl Acetate	6.97	43	85	Below Cal	#	49
48) Methyl methacrylate	6.71	41	210	1.255	ug/l #	41
49) 1,4-Dioxane	6.82	88	81	66.130	ug/l #	12
51) 4-Methyl-2-Pentanone	8.25	43	231	1.355	ug/l #	38
58) 2-Chloroethyl Vinyl ether	7.18	63	71	3.037	ug/l #	46
59) 2-Hexanone	9.49	43	570	4.765	ug/l	98
74) N-amyl acetate	11.38	43	180	1.336	ug/l #	45
81) trans-1,4-Dichloro-2-buten	11.98	75	99	2.894	ug/l #	16
95) Naphthalene	14.46	128	59	Below Cal	#	69

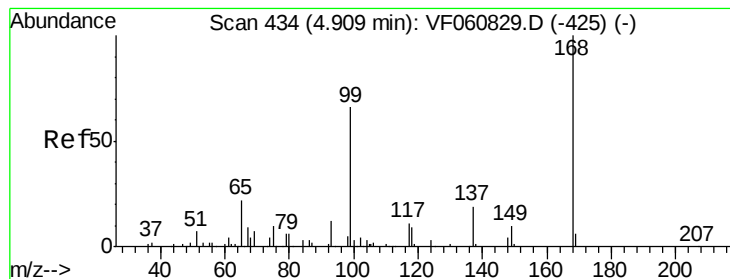
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 27 01:36:26 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: VF061050.D

Acq: 17 Dec 2018 19:51

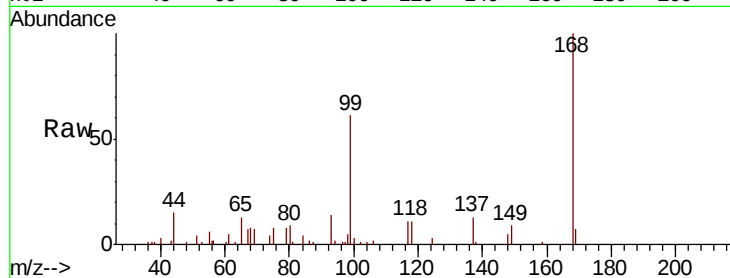
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 33693

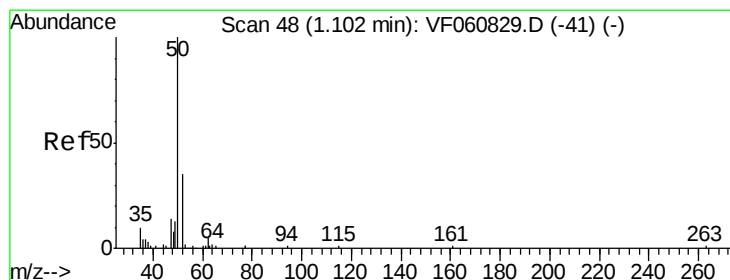
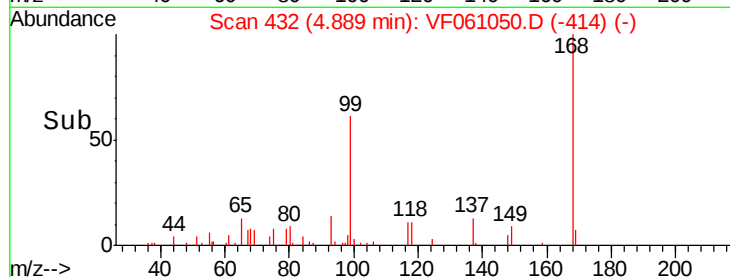
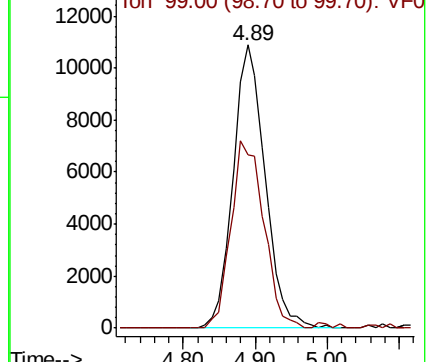
Ion Ratio Lower Upper

168 100

99 61.3 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#3

Chloromethane

Concen: 1.165 ug/l

RT: 1.06 min Scan# 44

Delta R.T. -0.04 min

Lab File: VF061050.D

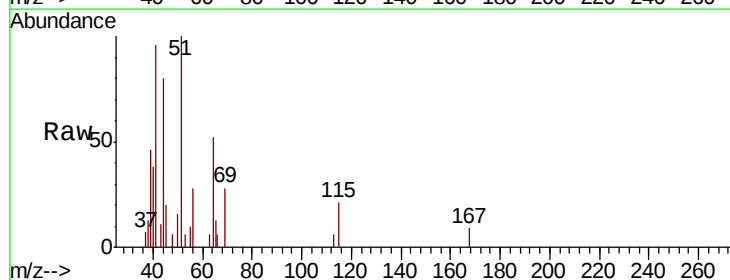
Acq: 17 Dec 2018 19:51

Tgt Ion: 50 Resp: 382

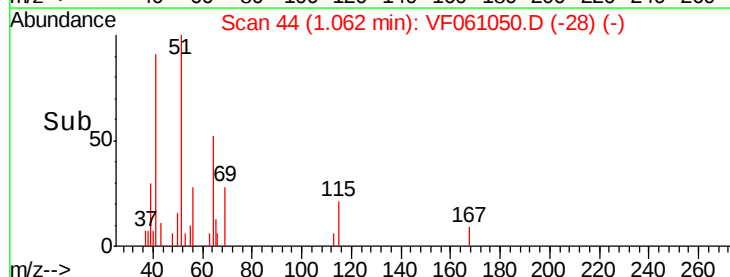
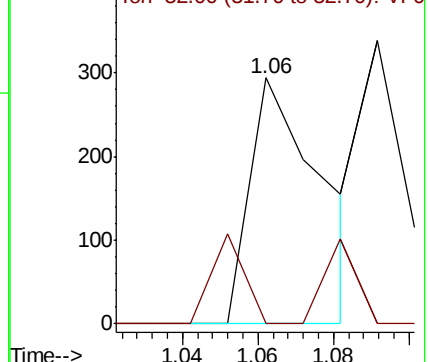
Ion Ratio Lower Upper

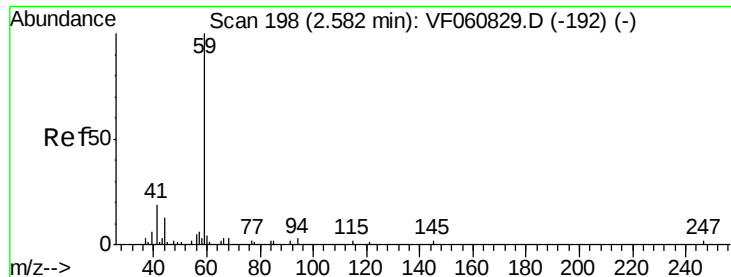
50 100

52 0.0 27.0 40.4#



Abundance Ion 50.00 (49.70 to 50.70): VF0



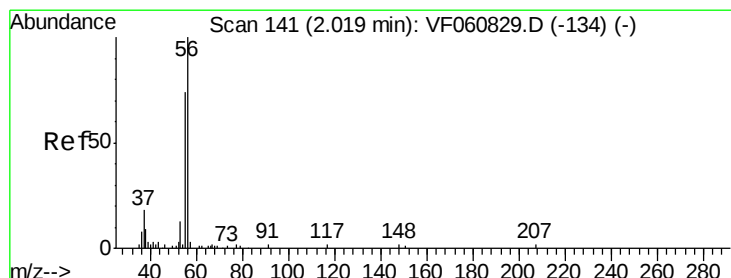
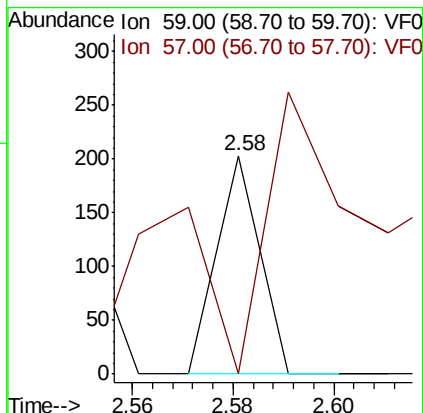
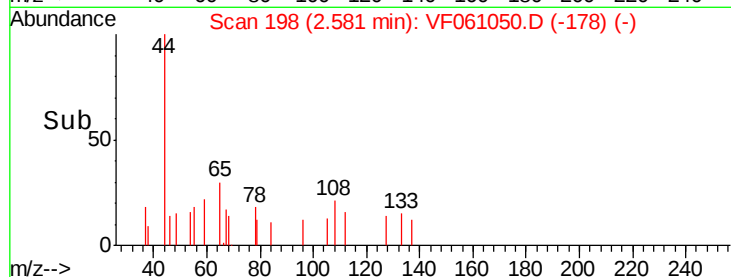
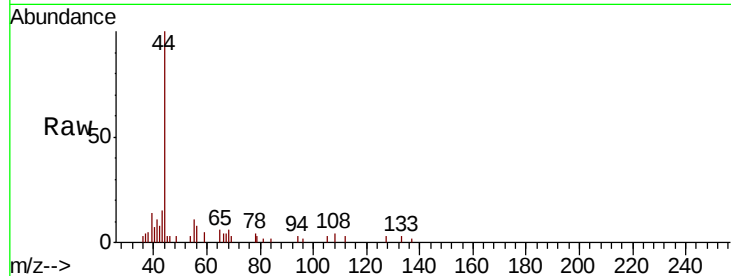


#11

Tert butyl alcohol
Concen: 7.375 ug/l
RT: 2.58 min Scan# 198
Delta R.T. -0.00 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Instrument :
MSVOA_F
ClientSampled :

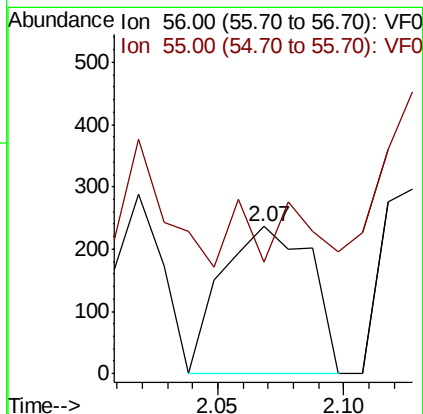
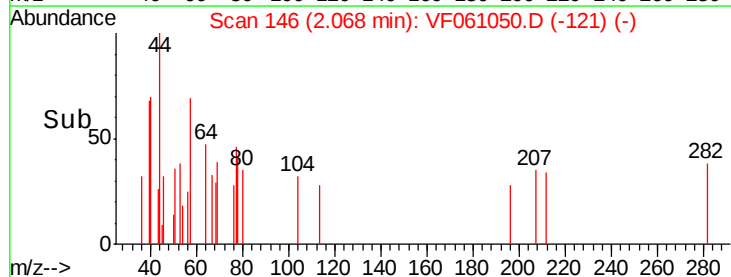
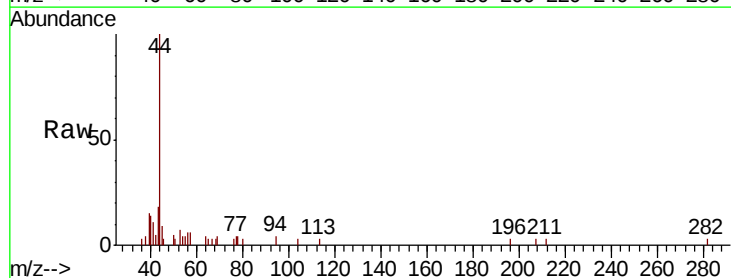
Tot Ion: 59 Resp: 120
Ion Ratio Lower Upper
59 100
57 0.0 12.7 19.1#

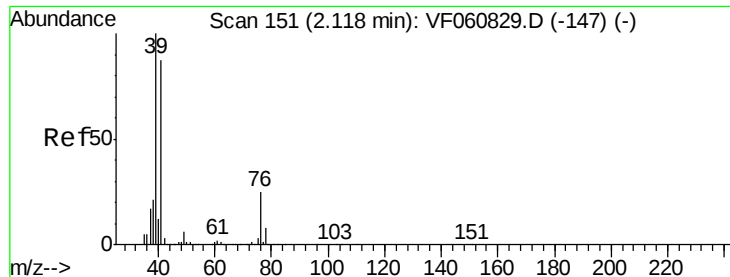


#13

Acrolein
Concen: 37.559 ug/l
RT: 2.07 min Scan# 146
Delta R.T. 0.05 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion: 56 Resp: 579
Ion Ratio Lower Upper
56 100
55 75.8 61.2 91.8

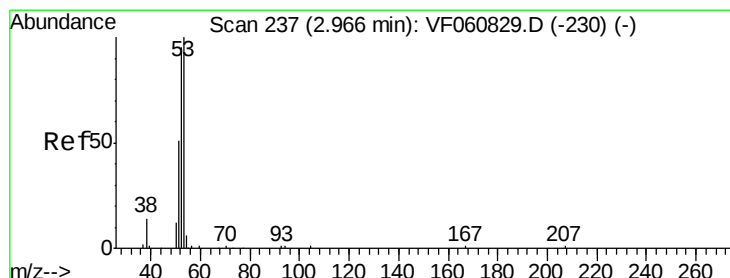
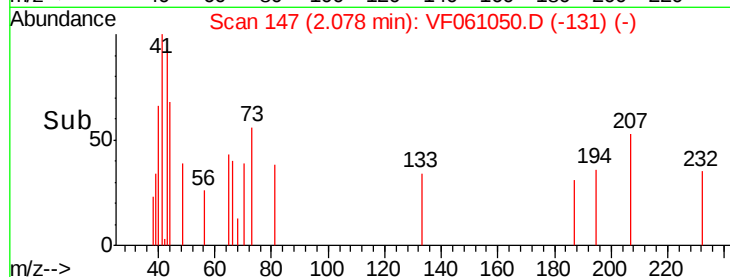
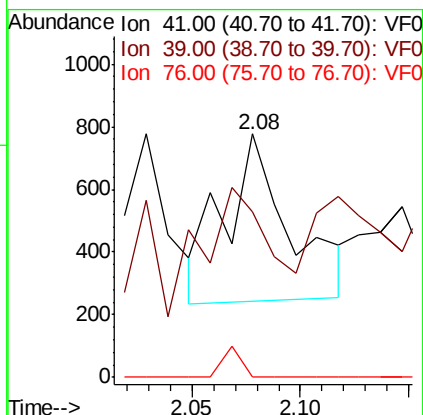
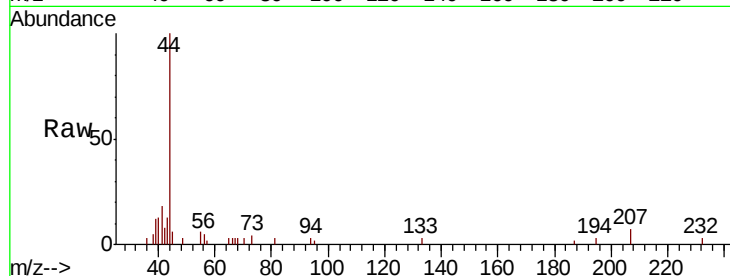




#14
Allvl chloride
Concen: 3.359 ug/l
RT: 2.08 min Scan# 147
Delta R.T. -0.04 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

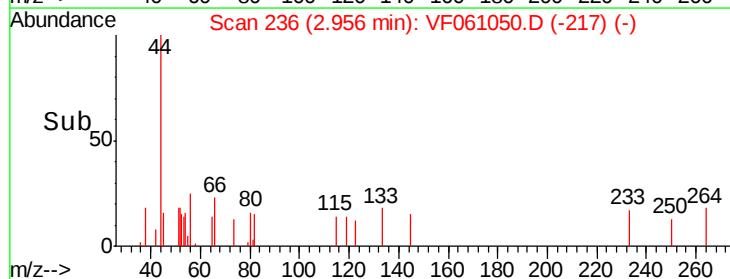
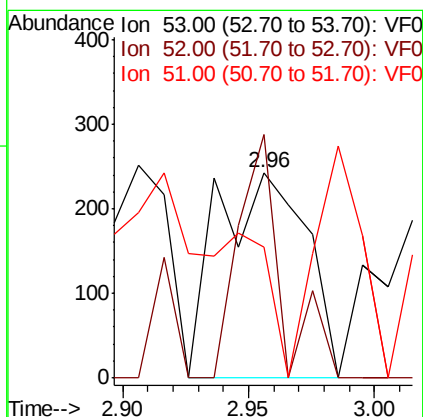
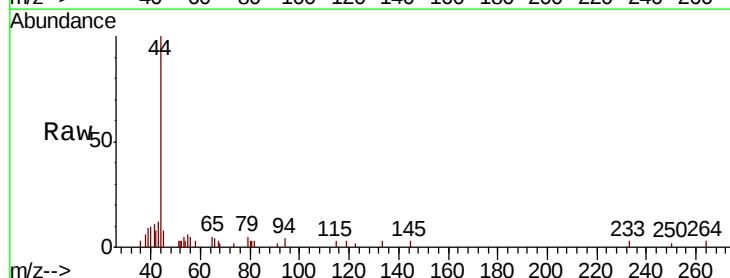
Instrument :
MSVOA_F
ClientSampleId :

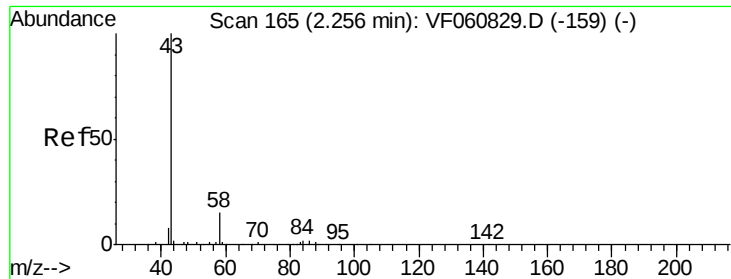
Tot Ion: 41 Resp: 1117
Ion Ratio Lower Upper
41 100
39 67.9 91.7 137.5#
76 0.0 23.5 35.3#



#15
Acrylonitrile
Concen: 16.394 ug/l
RT: 2.96 min Scan# 236
Delta R.T. -0.01 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion: 53 Resp: 598
Ion Ratio Lower Upper
53 100
52 118.5 76.5 114.7#
51 63.8 40.7 61.1#





#16

Acetone

Concen: 16.504 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.13 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

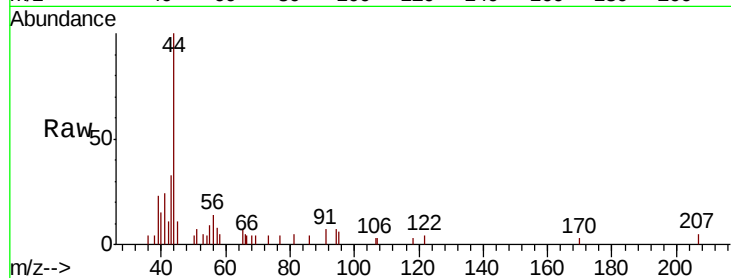
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 43 Resp: 1208

Ion Ratio Lower Upper

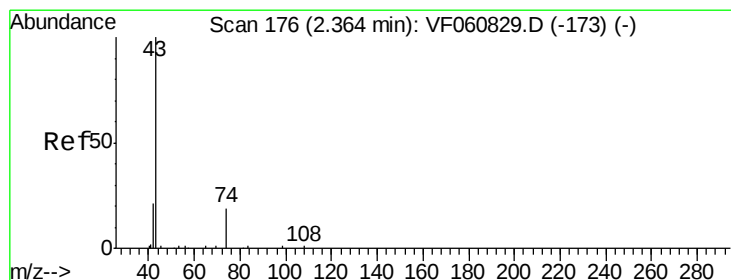
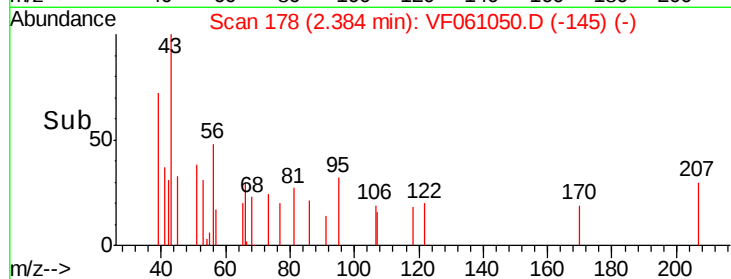
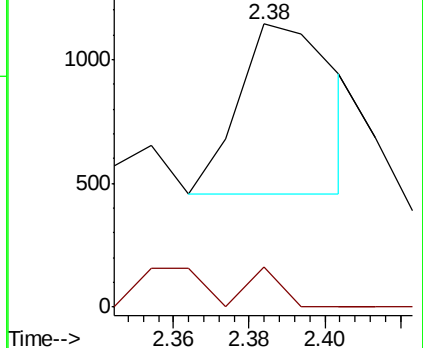
43 100

58 14.1 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 4.356 ug/l

RT: 2.46 min Scan# 186

Delta R.T. 0.10 min

Lab File: VF061050.D

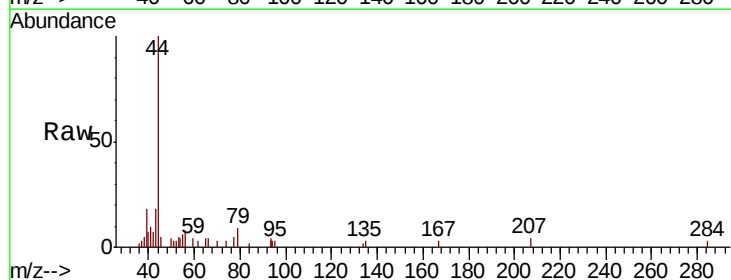
Acq: 17 Dec 2018 19:51

Tgt Ion: 43 Resp: 720

Ion Ratio Lower Upper

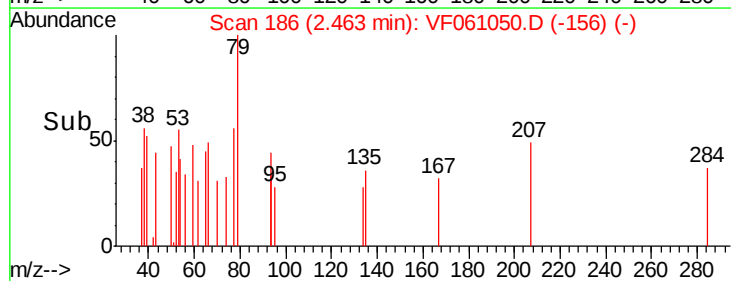
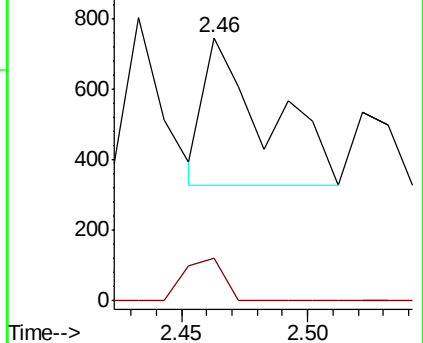
43 100

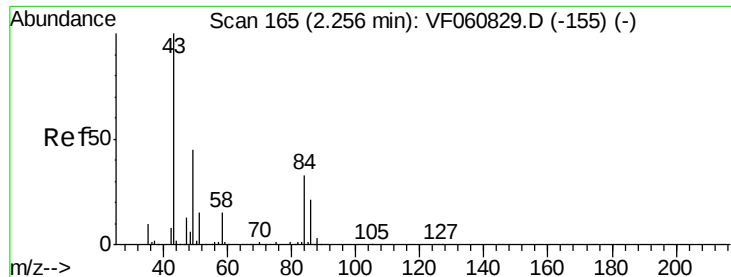
74 16.1 13.3 19.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

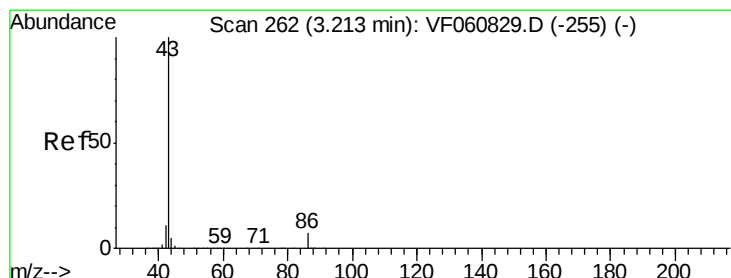
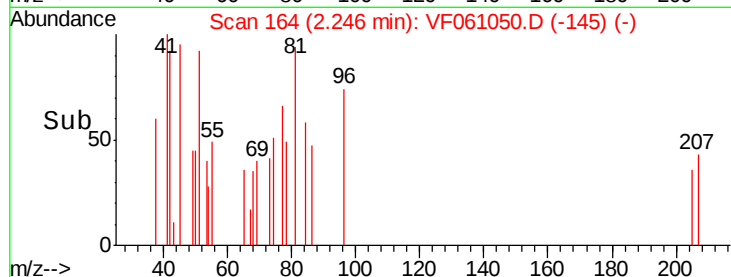
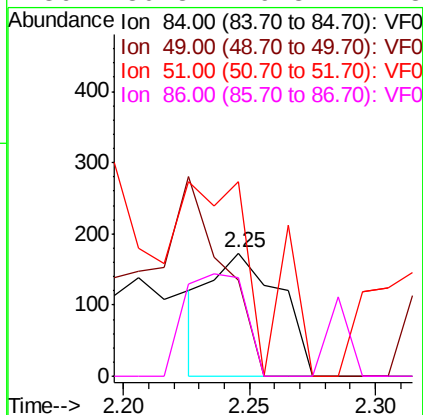
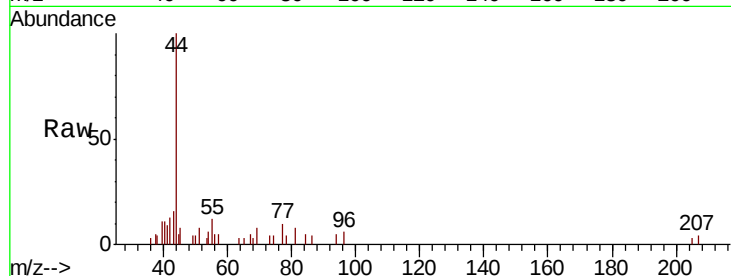




#20
Methvlene Chloride
Concen: 1.222 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

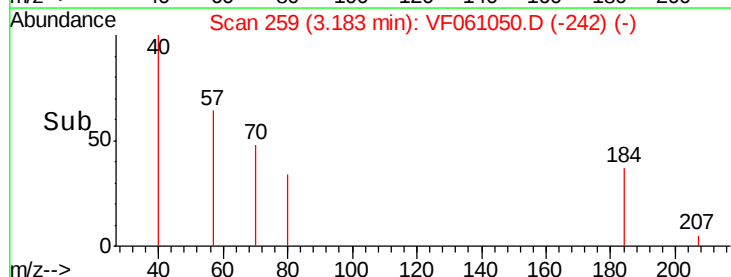
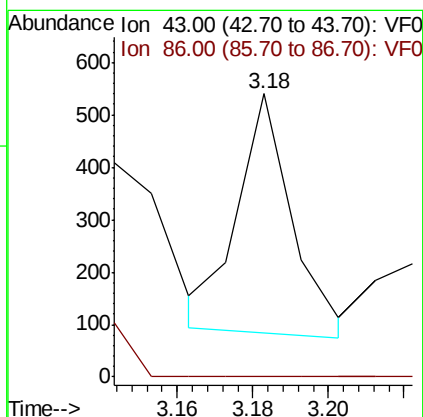
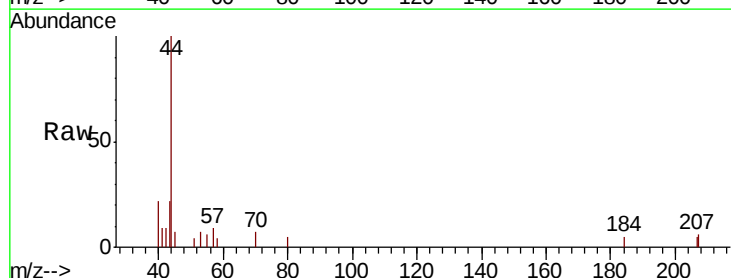
Instrument :
MSVOA_F
ClientSampleId :

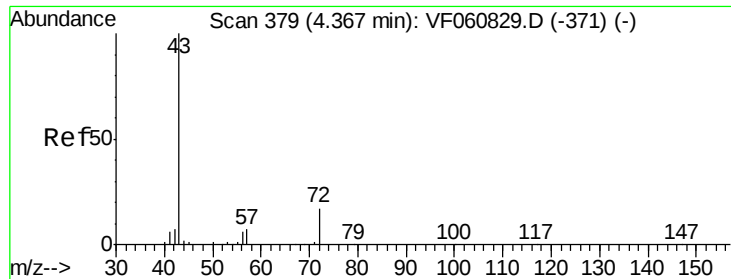
Tot Ion: 84 Resp: 328
Ion Ratio Lower Upper
84 100
49 78.0 111.3 166.9#
51 157.8 38.0 57.0#
86 80.3 49.8 74.8#



#23
Vinyl Acetate
Concen: 1.088 ug/l
RT: 3.18 min Scan# 259
Delta R.T. -0.03 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion: 43 Resp: 450
Ion Ratio Lower Upper
43 100
86 0.0 5.4 8.0#





#25

2-Butanone

Concen: 2.717 ug/l

RT: 4.32 min Scan# 374

Delta R.T. -0.05 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

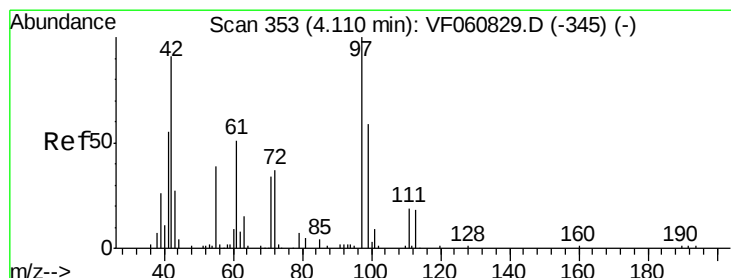
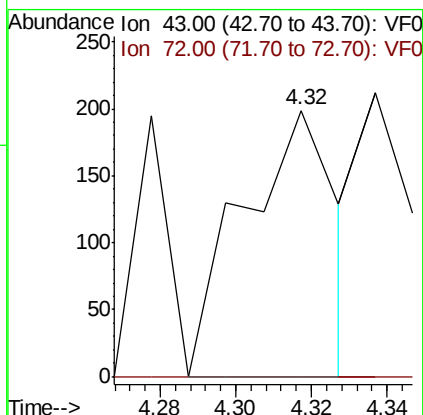
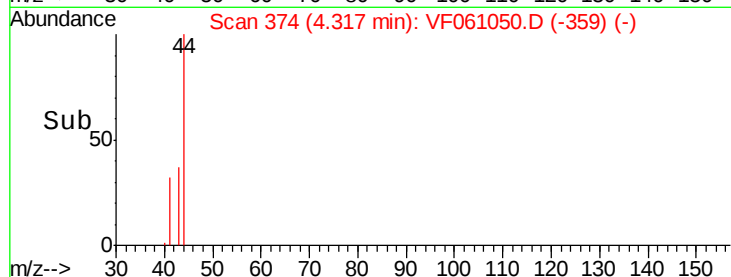
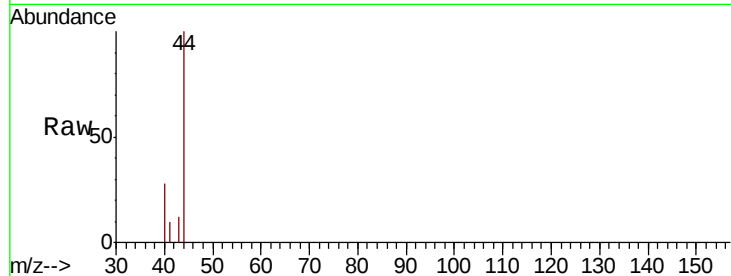
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 344

Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



#29

Tetrahydrofuran

Concen: 2.367 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.01 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

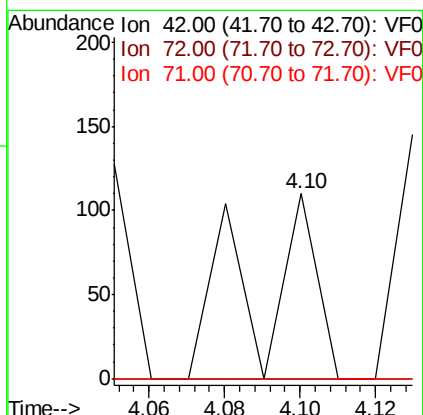
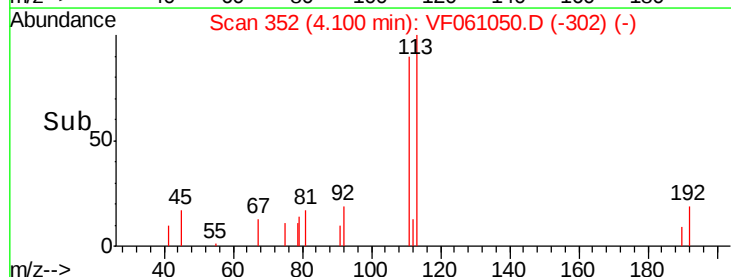
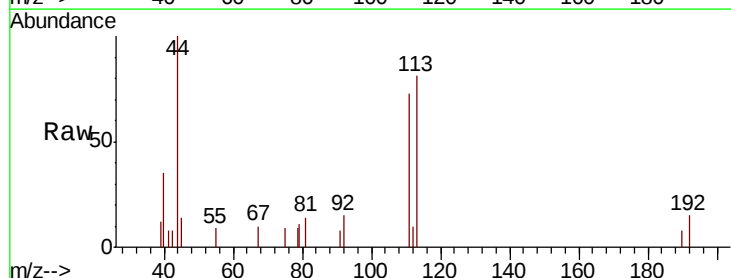
Tgt Ion: 42 Resp: 127

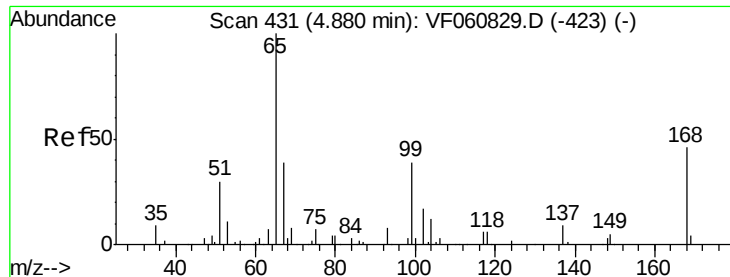
Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 28.7 43.1#





#33

1,2-Dichloroethane-d4

Concen: 22.297 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.01 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

Instrument :

MSVOA_F

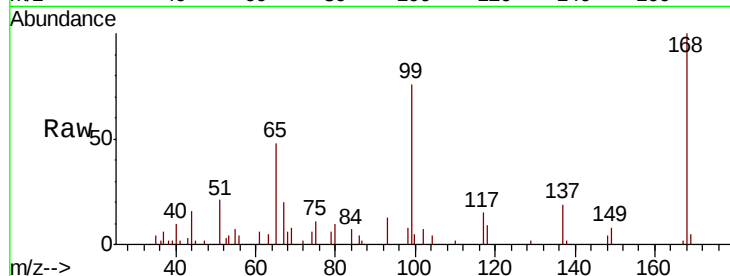
ClientSampleId :

Tot Ion: 65 Resp: 8850

Ion Ratio Lower Upper

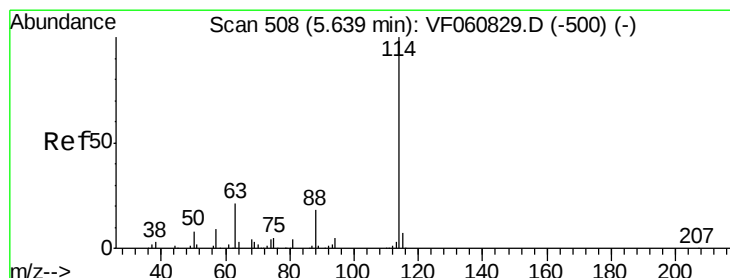
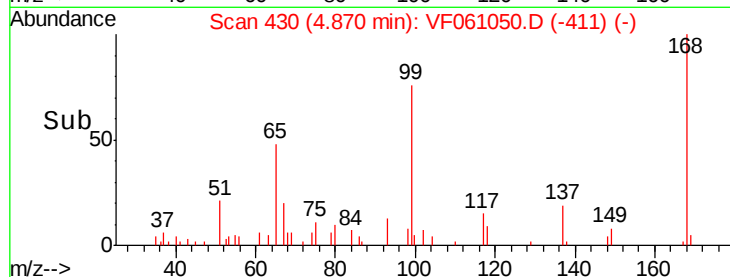
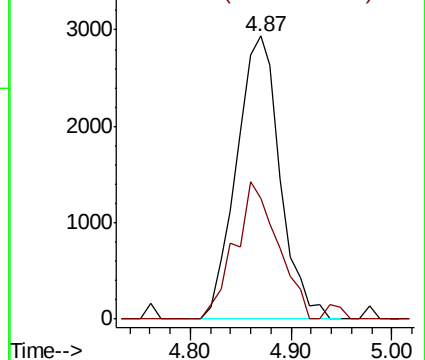
65 100

67 42.5 0.0 96.4



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: 5.62 min Scan# 506

Delta R.T. -0.02 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

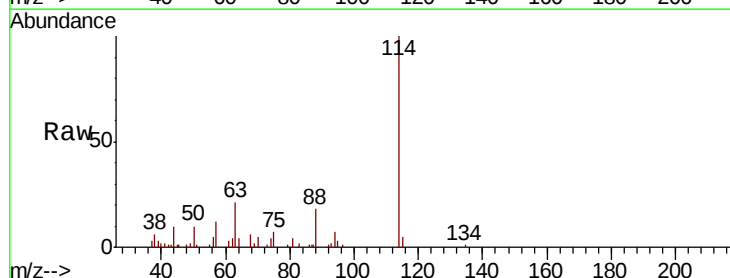
Tgt Ion: 114 Resp: 41020

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.6

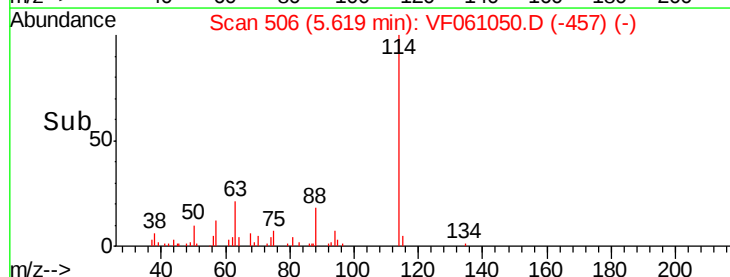
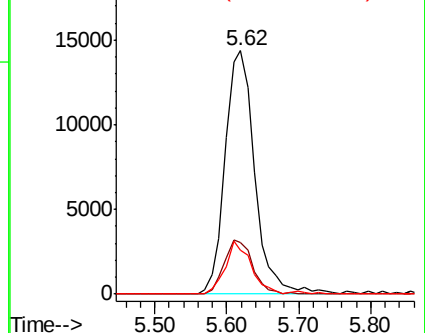
88 17.9 0.0 36.6

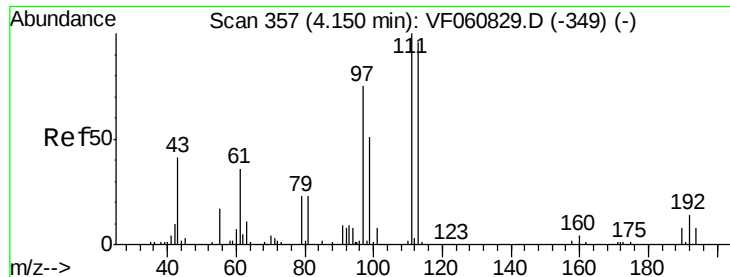


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 88.00 (87.70 to 88.70): VF0

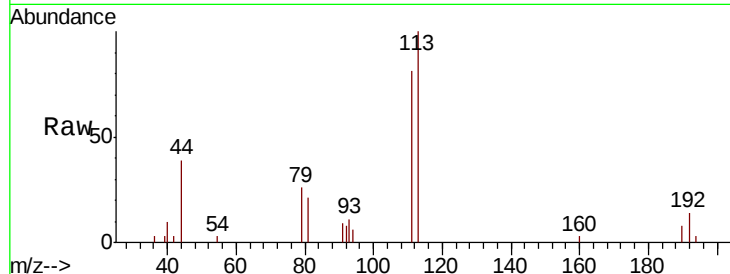




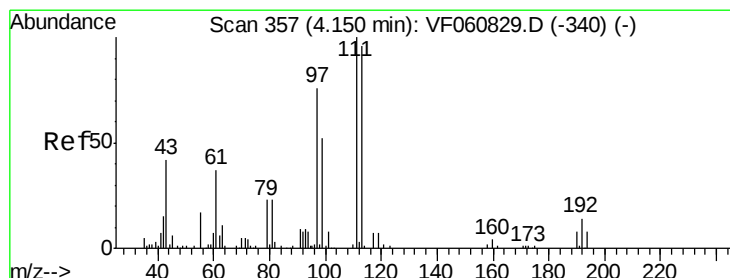
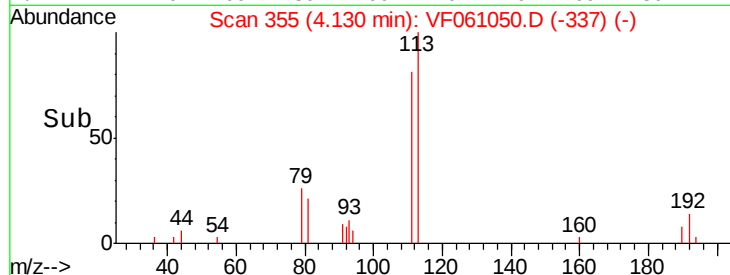
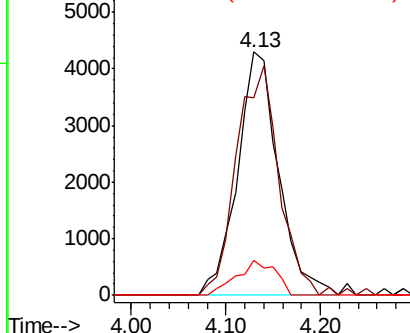
#35
Dibromofluoromethane
Concen: 39.899 ug/l
RT: 4.13 min Scan# 355
Delta R.T. -0.02 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:113 Resp: 12984
Ion Ratio Lower Upper
113 100
111 81.0 83.0 124.6#
192 14.2 12.3 18.5

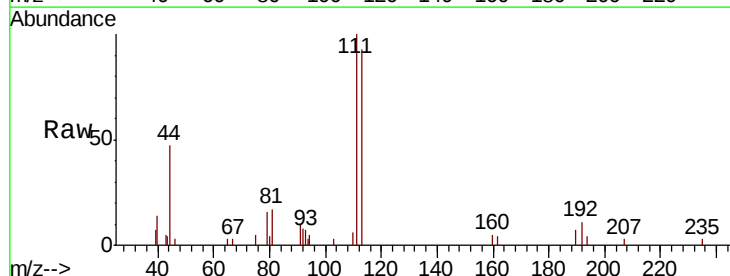


Abundance Ion 113.00 (112.70 to 113.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 192.00 (191.70 to 192.70): V

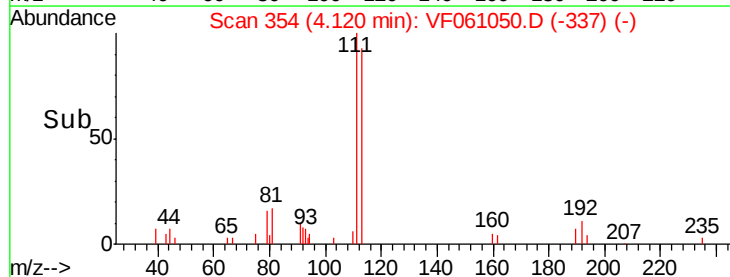
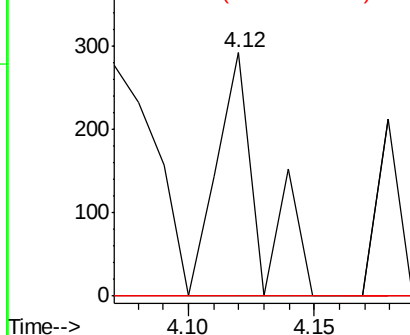


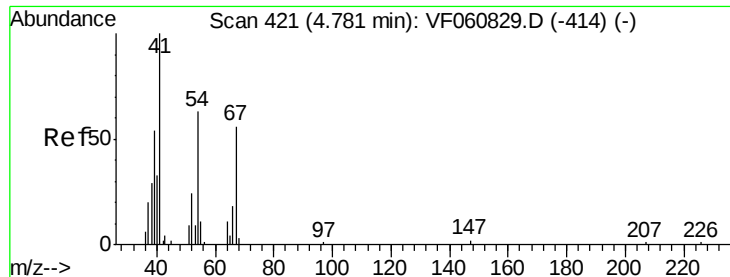
#37
Ethyl Acetate
Concen: 1.877 ug/l
RT: 4.12 min Scan# 354
Delta R.T. -0.03 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion: 43 Resp: 347
Ion Ratio Lower Upper
43 100
61 0.0 68.6 103.0#
70 0.0 9.0 13.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 61.00 (60.70 to 61.70): VF0
Ion 70.00 (69.70 to 70.70): VF0

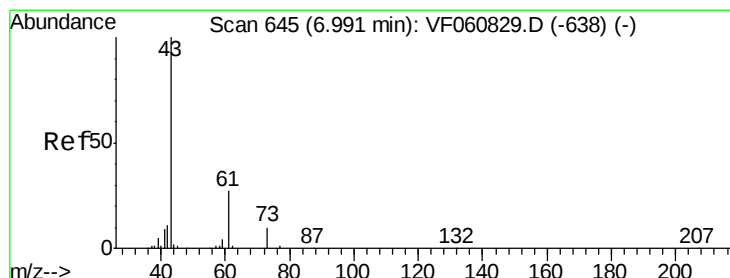
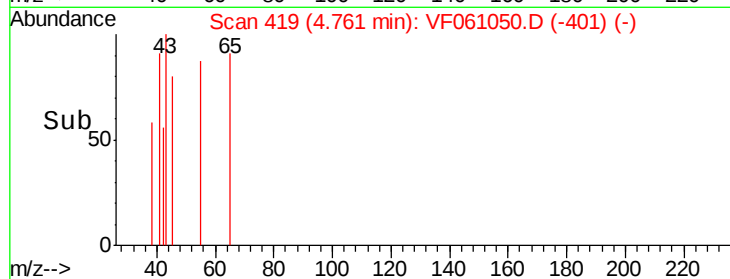
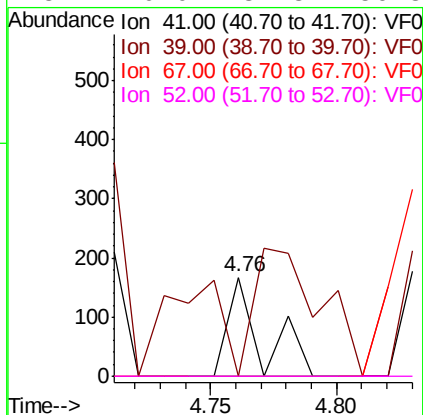
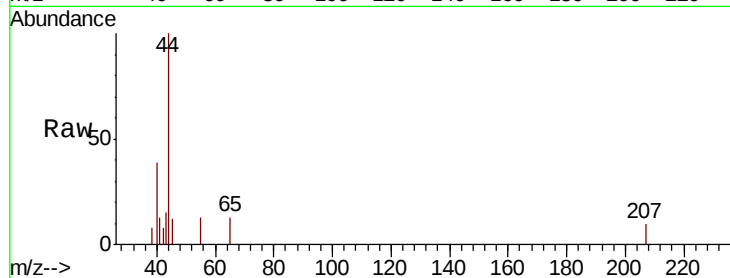




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.76 min Scan# 419
Delta R.T. -0.02 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

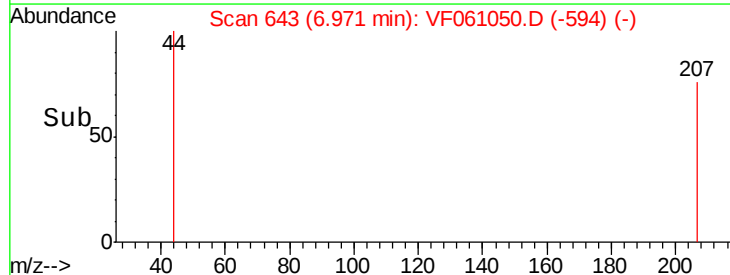
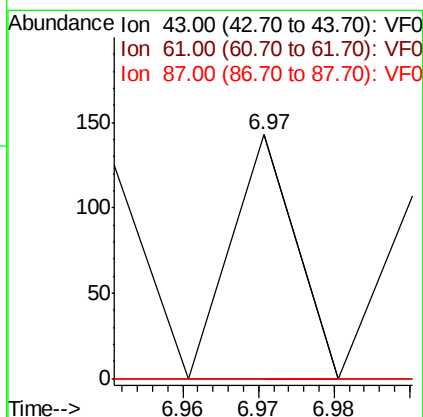
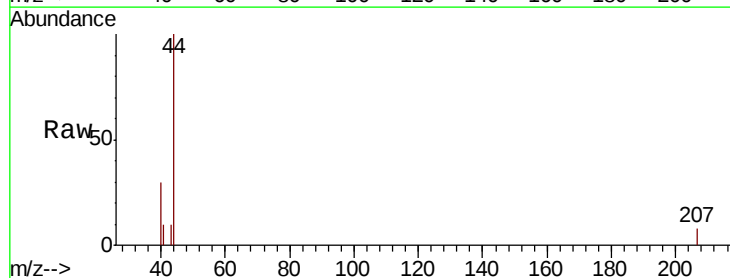
Instrument :
MSVOA_F
ClientSampled :

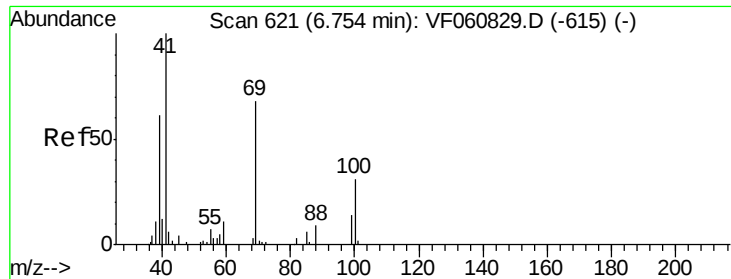
Tot Ion:	41	Resp:	159
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.97 min Scan# 643
Delta R.T. -0.02 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion:	43	Resp:	85
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

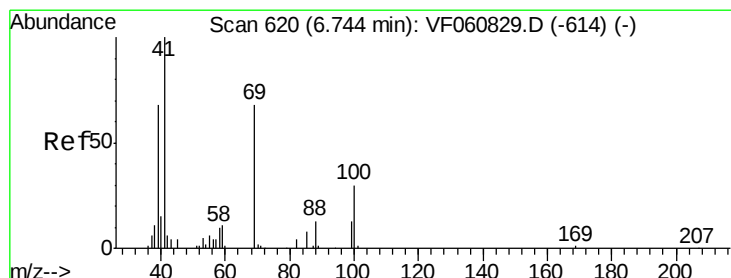
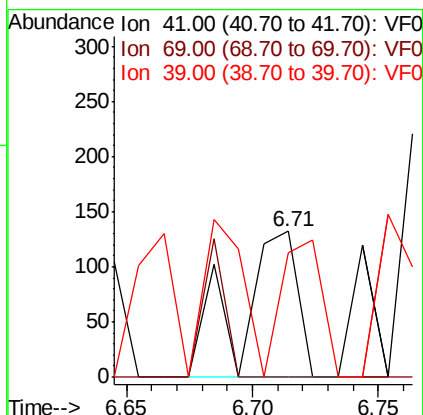
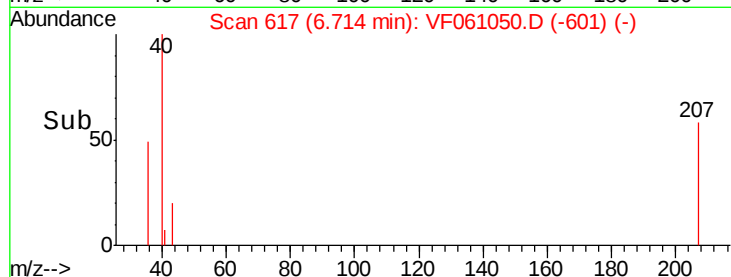
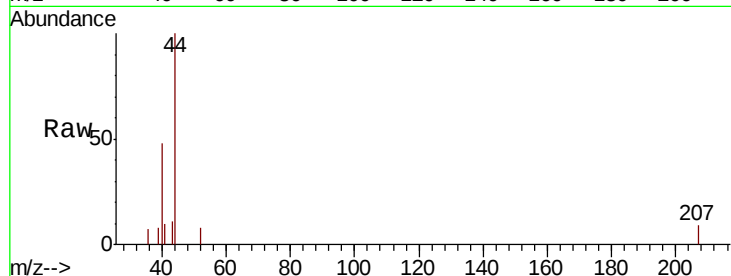




#48
Methyl methacrylate
Concen: 1.255 ug/l
RT: 6.71 min Scan# 617
Delta R.T. -0.04 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

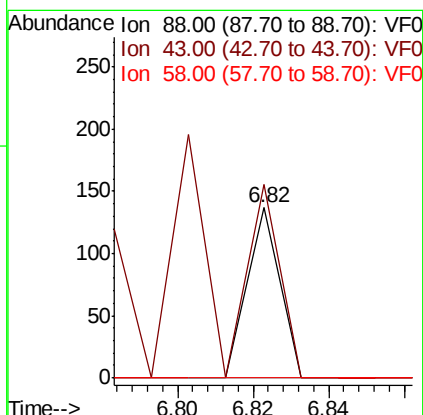
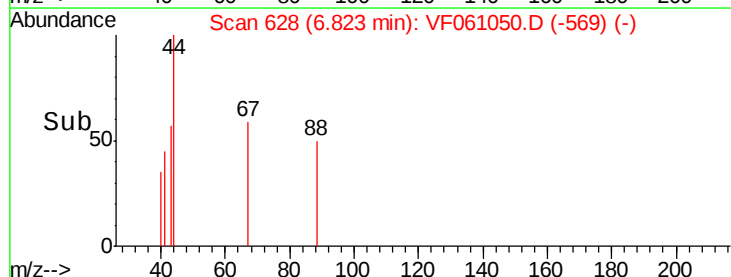
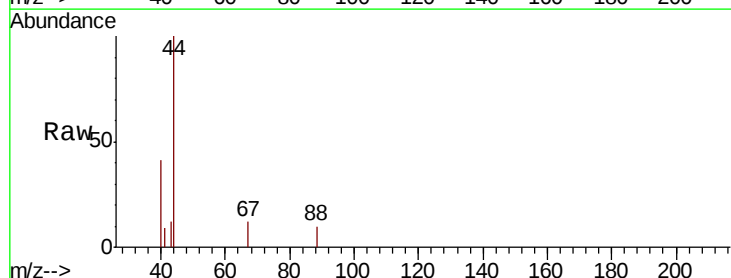
Instrument :
MSVOA_F
ClientSampled :

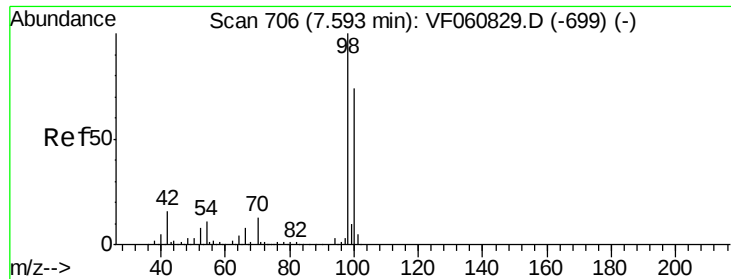
Tot Ion: 41 Resp: 210
Ion Ratio Lower Upper
41 100
69 0.0 53.9 80.9#
39 85.6 49.0 73.6#



#49
1,4-Dioxane
Concen: 66.130 ug/l
RT: 6.82 min Scan# 628
Delta R.T. 0.08 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion: 88 Resp: 81
Ion Ratio Lower Upper
88 100
43 113.9 42.0 63.0#
58 0.0 61.8 92.8#

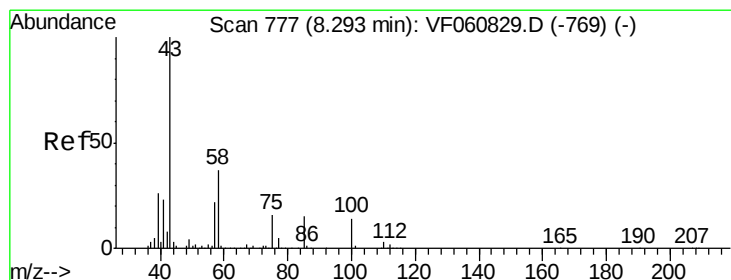
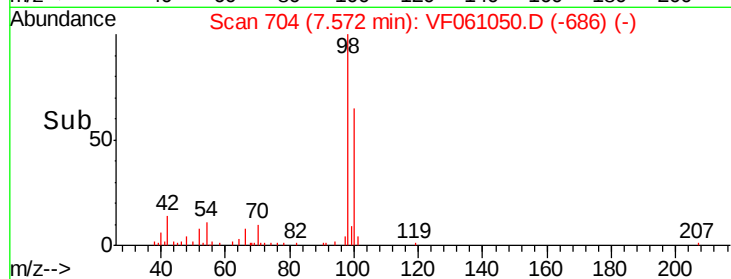
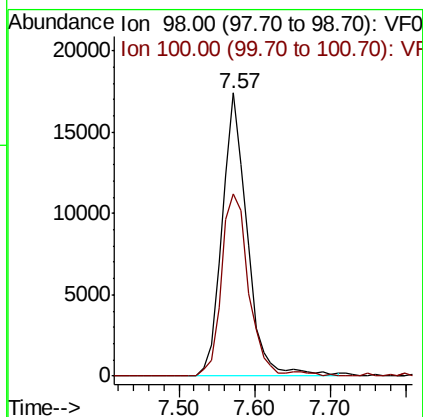
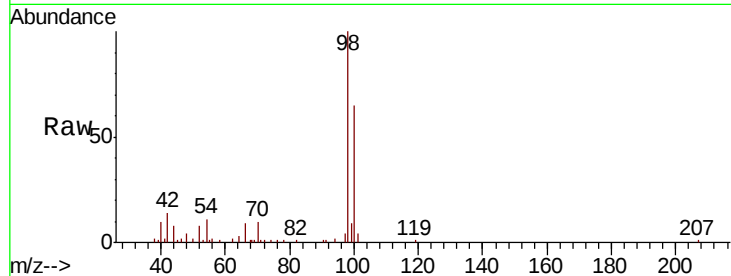




#50
Toluene-d8
Concen: 41.885 ug/l
RT: 7.57 min Scan# 704
Delta R.T. -0.02 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

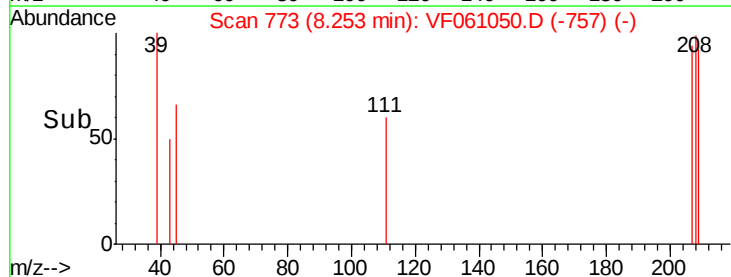
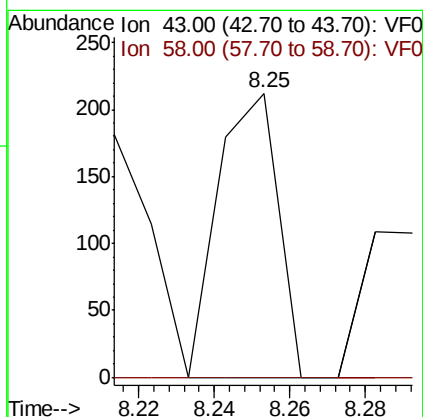
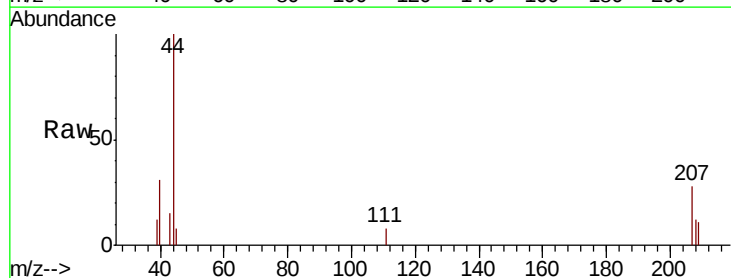
Instrument :
MSVOA_F
ClientSampleId :

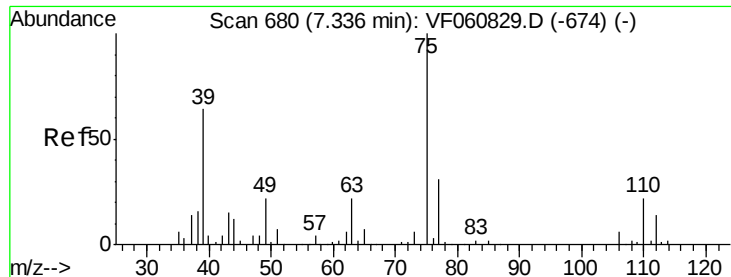
Tot Ion: 98 Resp: 40151
Ion Ratio Lower Upper
98 100
100 64.6 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 1.355 ug/l
RT: 8.25 min Scan# 773
Delta R.T. -0.04 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion: 43 Resp: 231
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#

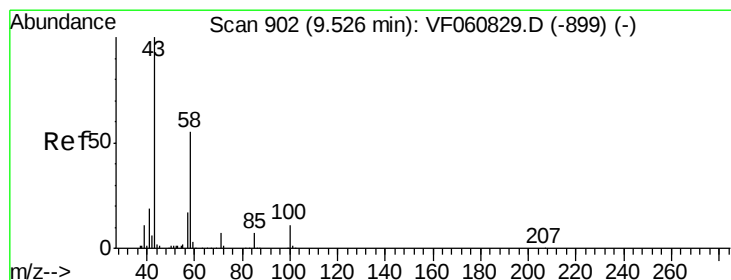
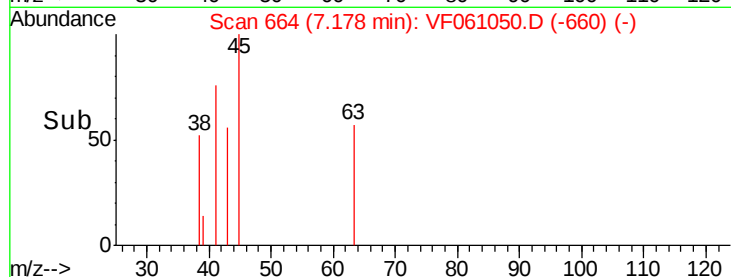
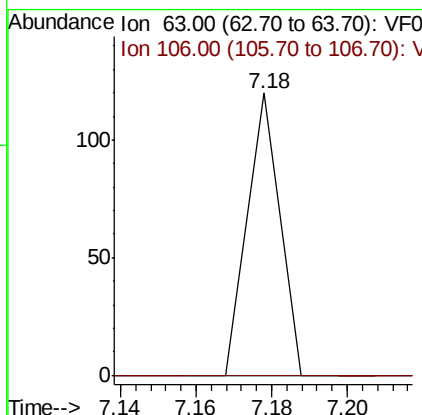
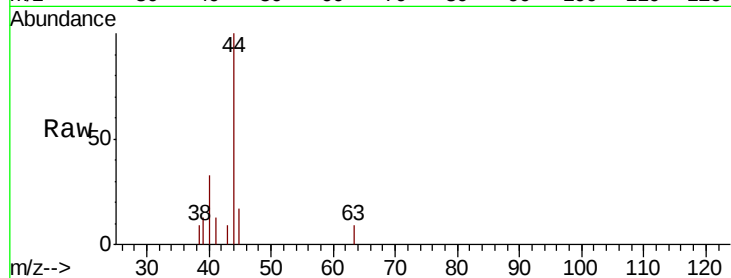




#58
 2-Chloroethyl Vinyl ether
 Concen: 3.037 ug/l
 RT: 7.18 min Scan# 664
 Delta R.T. -0.16 min
 Lab File: VF061050.D
 Acq: 17 Dec 2018 19:51

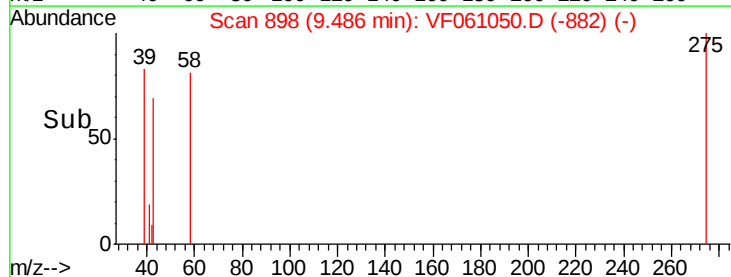
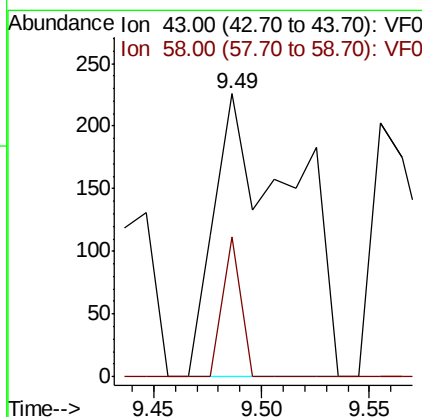
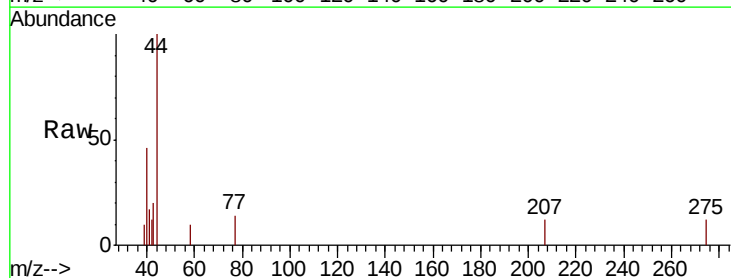
Instrument :
 MSVOA_F
 ClientSampleId :

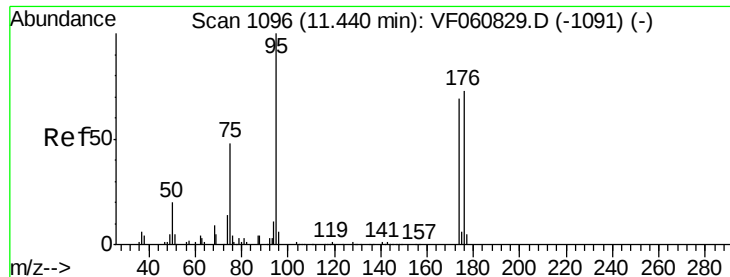
Tot Ion: 63 Resp: 71
 Ion Ratio Lower Upper
 63 100
 106 0.0 23.0 34.6#



#59
 2-Hexanone
 Concen: 4.765 ug/l
 RT: 9.49 min Scan# 898
 Delta R.T. -0.04 min
 Lab File: VF061050.D
 Acq: 17 Dec 2018 19:51

Tgt Ion: 43 Resp: 570
 Ion Ratio Lower Upper
 43 100
 58 49.6 25.6 76.6

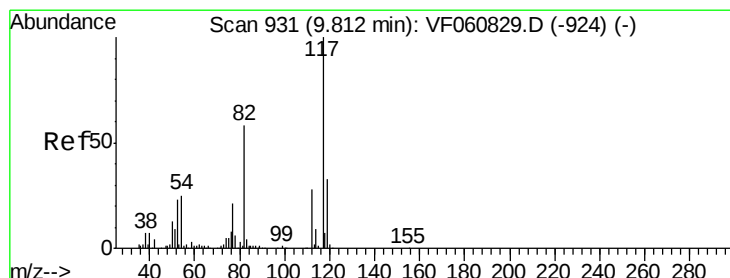
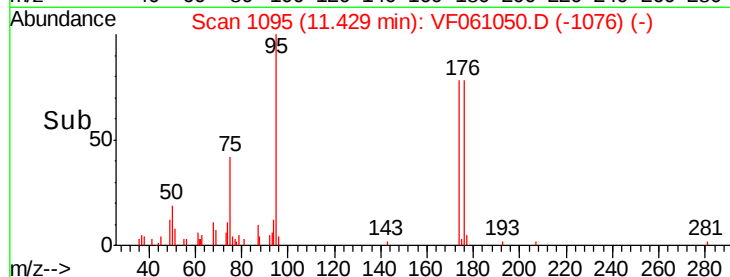
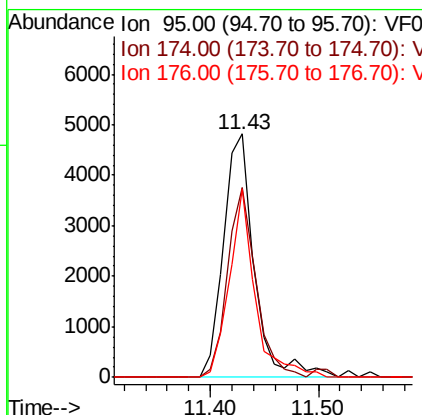
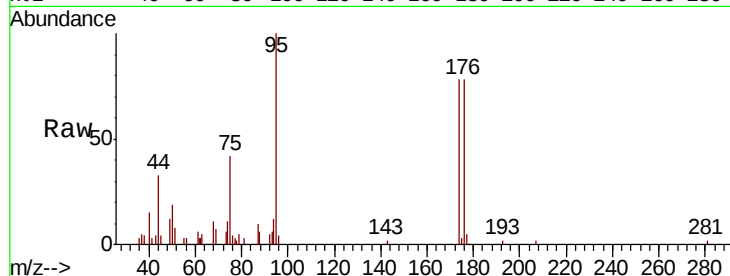




#62
4-Bromofluorobenzene
Concen: 21.897 ug/l
RT: 11.43 min Scan# 1095
Delta R.T. -0.01 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

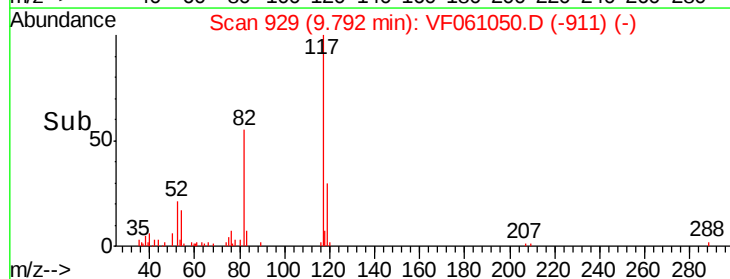
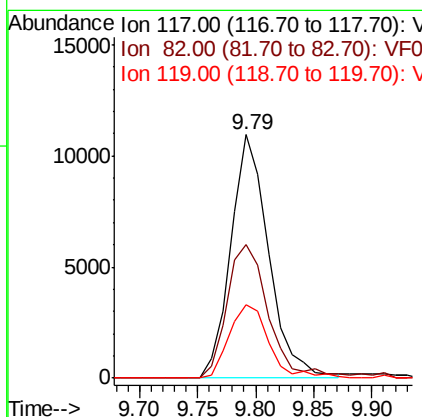
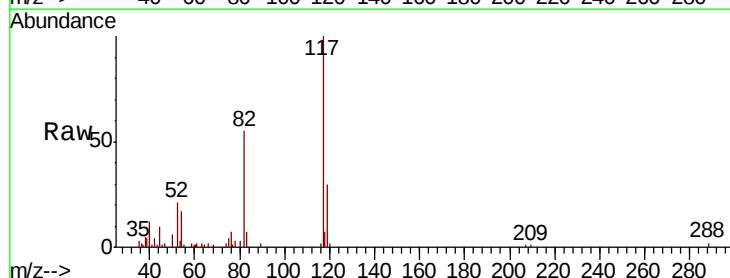
Instrument :
MSVOA_F
ClientSampleId :

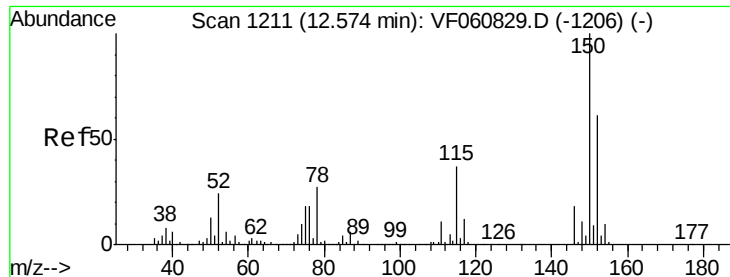
Tot Ion	Ratio	Lower	Upper
95	100		
174	78.1	0.0	138.2
176	77.6	0.0	146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF061050.D
Acq: 17 Dec 2018 19:51

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.0	46.6	69.8
119	30.1	26.4	39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.56 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

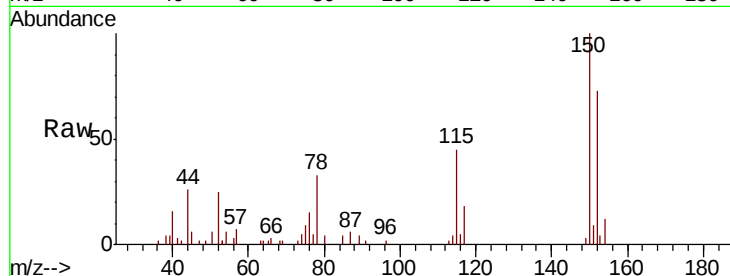
Tot Ion:152 Resp: 7385

Ion Ratio Lower Upper

152 100

115 61.8 30.1 90.5

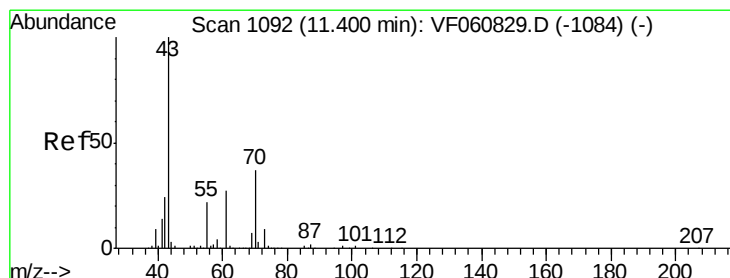
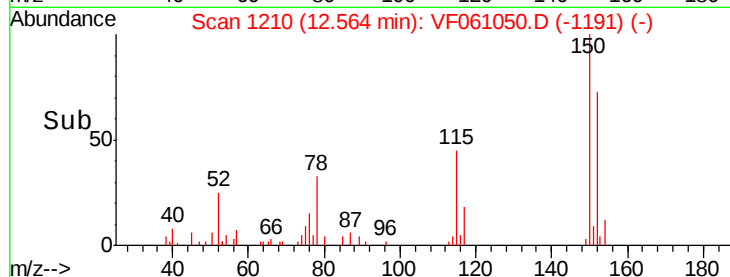
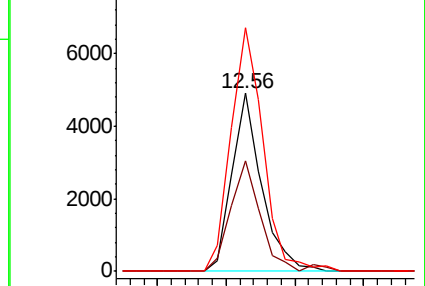
150 136.7 0.0 327.6



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: 1.336 ug/l

RT: 11.38 min Scan# 1090

Delta R.T. -0.02 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

Tgt Ion: 43 Resp: 180

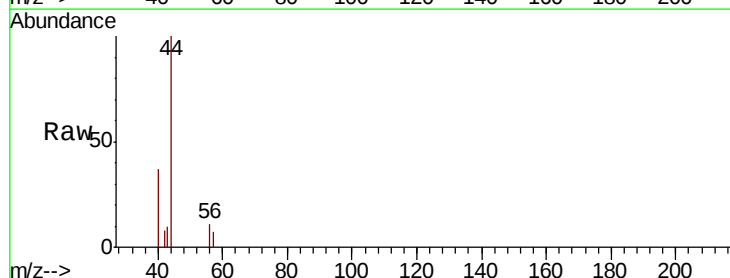
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 17.2 25.8#

61 0.0 21.8 32.6#

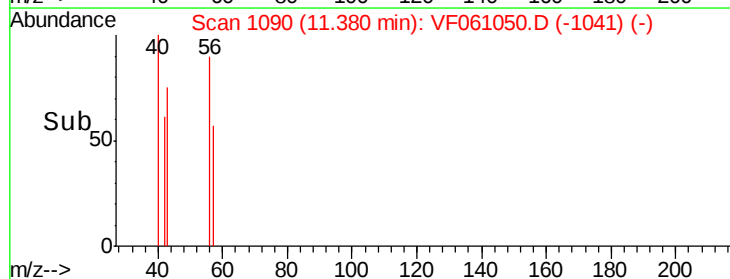
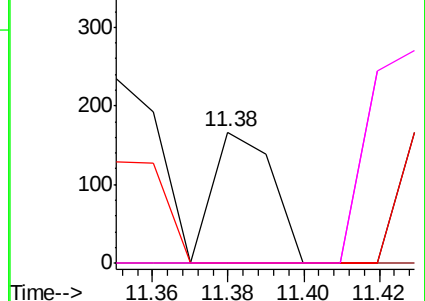


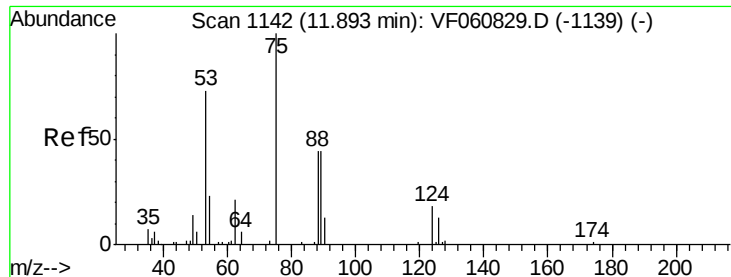
Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 70.00 (69.70 to 70.70): VF0

Ion 55.00 (54.70 to 55.70): VF0

Ion 61.00 (60.70 to 61.70): VF0





#81

trans-1,4-Dichloro-2-butene

Concen: 2.894 ug/l

RT: 11.98 min Scan# 1151

Delta R.T. 0.09 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

Instrument :

MSVOA_F

ClientSampleId :

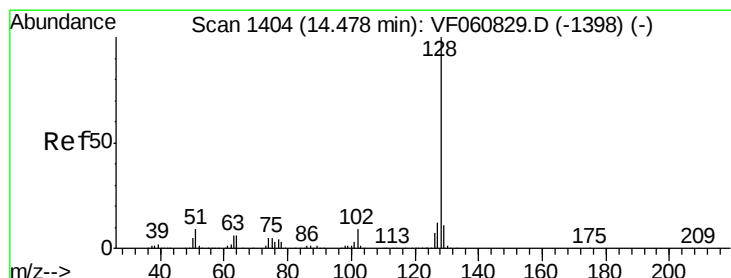
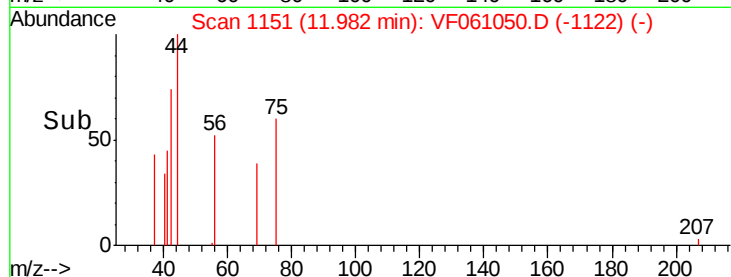
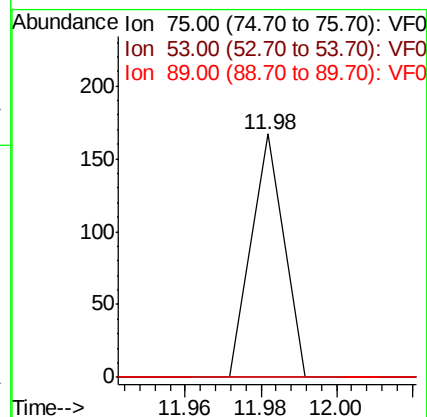
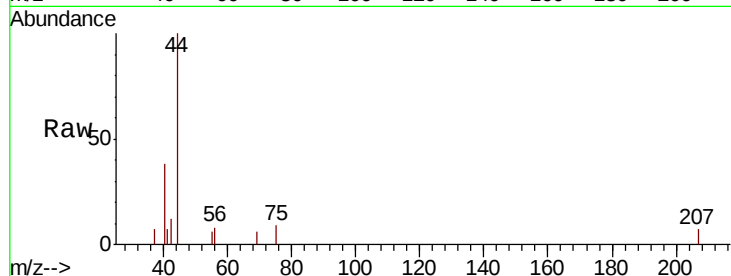
Tot Ion: 75 Resp: 99

Ion Ratio Lower Upper

75 100

53 0.0 65.9 98.9#

89 0.0 38.8 58.2#



#95

Naphthalene

Concen: Below Cal

RT: 14.46 min Scan# 1402

Delta R.T. -0.02 min

Lab File: VF061050.D

Acq: 17 Dec 2018 19:51

Tgt Ion: 128 Resp: 59

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 9.1 13.7#

