

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112818\
 Data File : VF060863.D
 Acq On : 28 Nov 2018 18:33
 Operator : VA/AP
 Sample : J5767-19RE
 Misc : 6.14g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-112818-BRE

Quant Time: Nov 29 03:30:24 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	191376	50.00	ug/l	-0.02
34) 1,4-Difluorobenzene	5.62	114	321859	50.00	ug/l	-0.02
63) Chlorobenzene-d5	9.80	117	286229	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	12.57	152	125266	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.86	65	124428	55.19	ug/l	-0.02
Spiked Amount			Recovery	=	110.38%	
35) Dibromofluoromethane	4.13	113	139449	54.61	ug/l	-0.02
Spiked Amount			Recovery	=	109.22%	
50) Toluene-d8	7.58	98	346129	46.02	ug/l	-0.02
Spiked Amount			Recovery	=	92.04%	
62) 4-Bromofluorobenzene	11.42	95	146667	42.90	ug/l	-0.02
Spiked Amount			Recovery	=	85.80%	

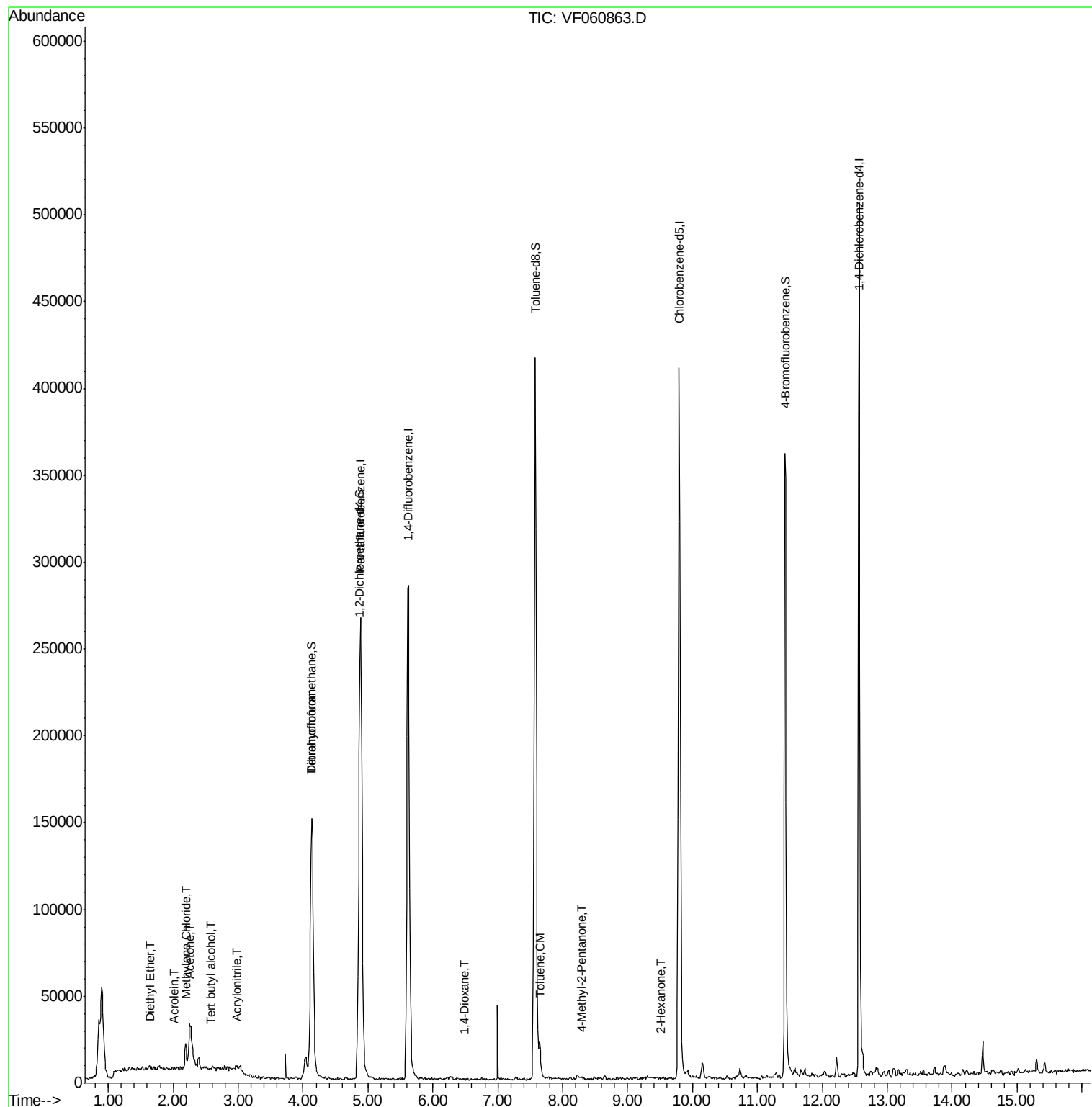
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	675	1.260	ug/l	65
11) Tert butyl alcohol	2.58	59	644	6.968	ug/l #	43
13) Acrolein	2.01	56	495	5.653	ug/l #	68
15) Acrylonitrile	2.97	53	417	2.013	ug/l #	22
16) Acetone	2.25	43	25350	60.976	ug/l	100
20) Methylene Chloride	2.19	84	5239	3.435	ug/l	93
29) Tetrahydrofuran	4.14	42	333	1.092	ug/l #	37
41) Methacrylonitrile	4.76	41	775	Below Cal	#	45
43) Isopropyl Acetate	6.99	43	864	Below Cal	#	49
49) 1,4-Dioxane	6.49	88	73	7.596	ug/l #	17
51) 4-Methyl-2-Pentanone	8.30	43	1953	1.460	ug/l	92
52) Toluene	7.65	92	9608	1.734	ug/l	98
59) 2-Hexanone	9.51	43	1686	1.796	ug/l	65
95) Naphthalene	14.47	128	11617	Below Cal		97

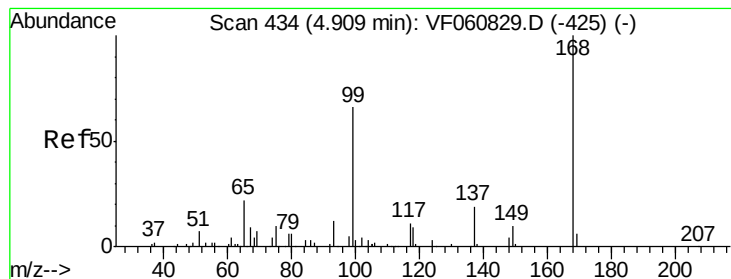
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. -0.02 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

Instrument :

MSVOA_F

ClientSampleId :

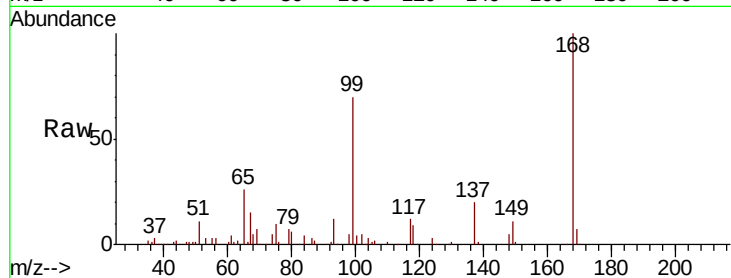
CL-02-112818-BRE

Tot Ion:168 Resp: 191376

Ion Ratio Lower Upper

168 100

99 70.1 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.89

60000

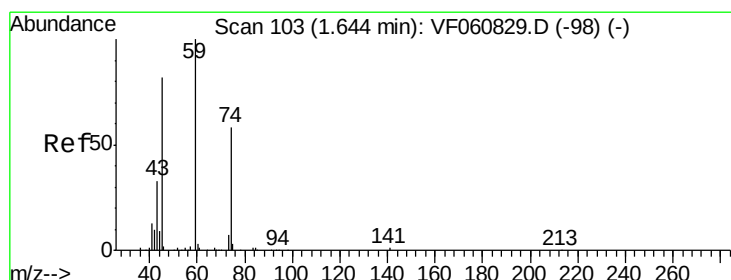
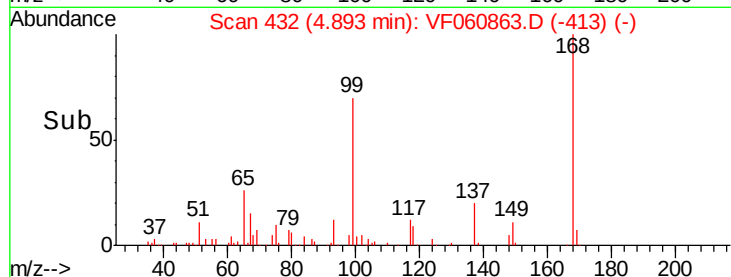
40000

20000

0

Time-->

4.70 4.80 4.90 5.00 5.10



#8

Diethyl Ether

Concen: 1.260 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060863.D

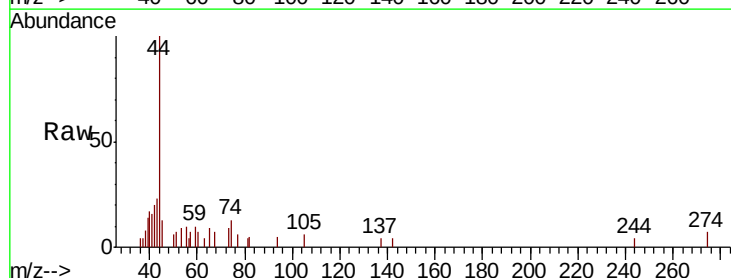
Acq: 28 Nov 2018 18:33

Tgt Ion: 74 Resp: 675

Ion Ratio Lower Upper

74 100

45 99.1 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1.63

600

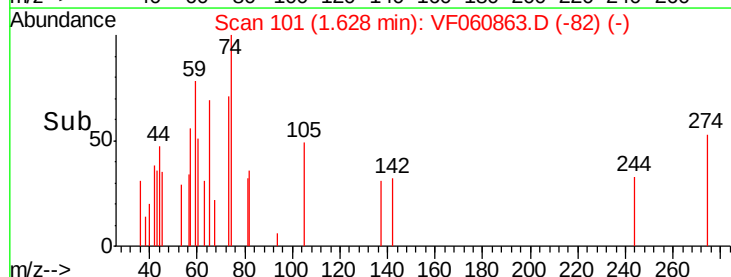
400

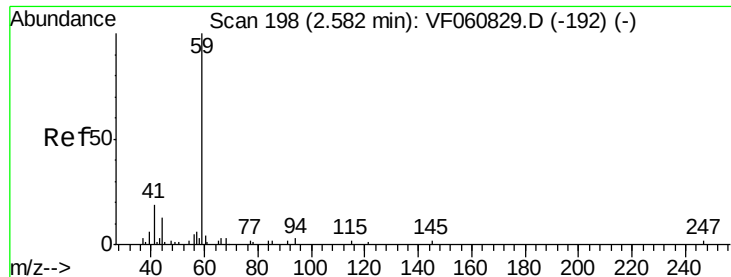
200

0

Time-->

1.60 1.65 1.70

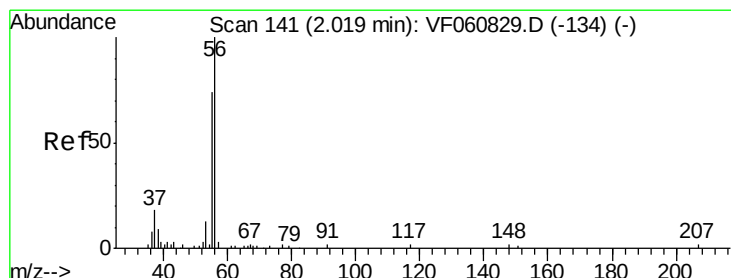
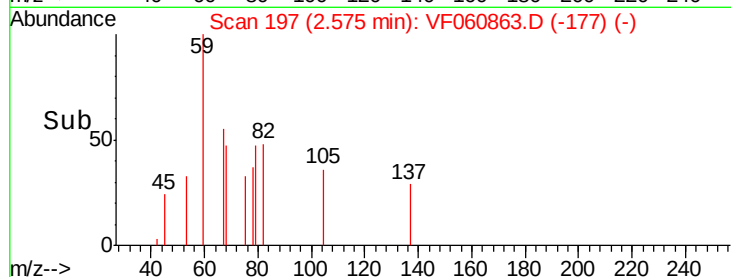
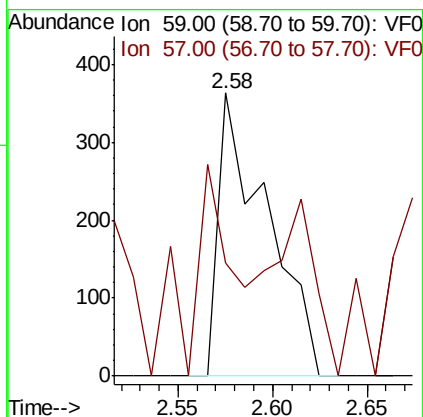
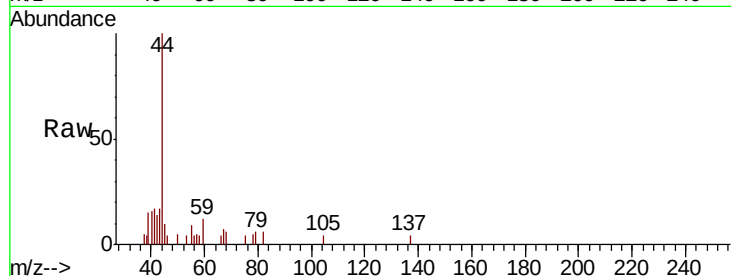




#11
Tert butyl alcohol
Concen: 6.968 ug/l
RT: 2.58 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

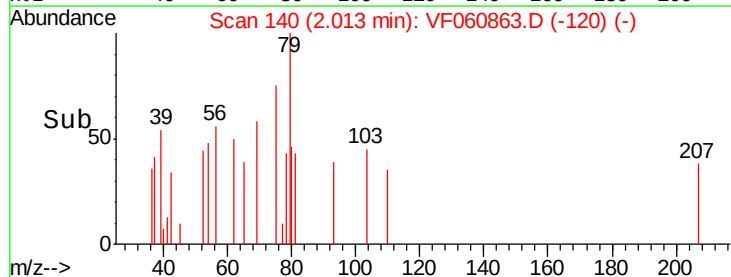
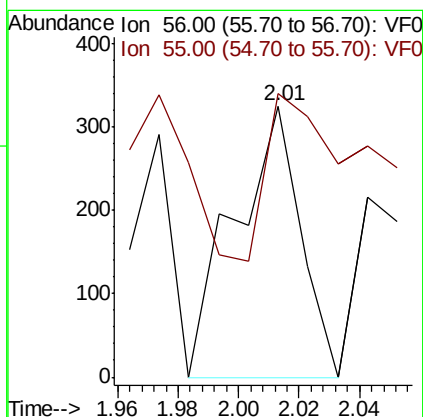
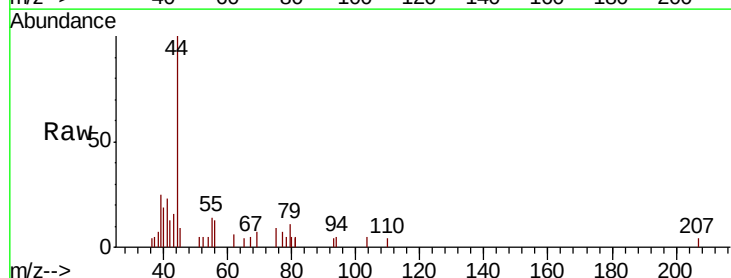
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-BRE

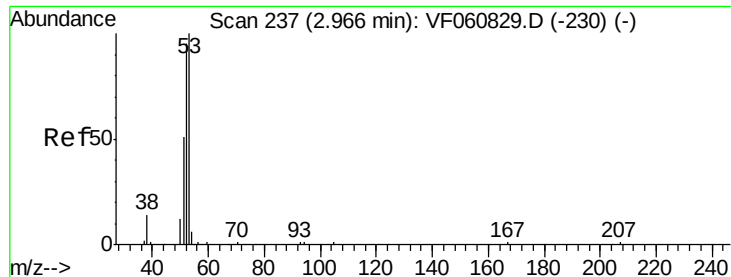
Tot Ion: 59 Resp: 644
Ion Ratio Lower Upper
59 100
57 39.9 12.7 19.1#



#13
Acrolein
Concen: 5.653 ug/l
RT: 2.01 min Scan# 140
Delta R.T. -0.01 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

Tgt Ion: 56 Resp: 495
Ion Ratio Lower Upper
56 100
55 104.3 61.2 91.8#





#15

Acrylonitrile

Concen: 2.013 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.00 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-BRE

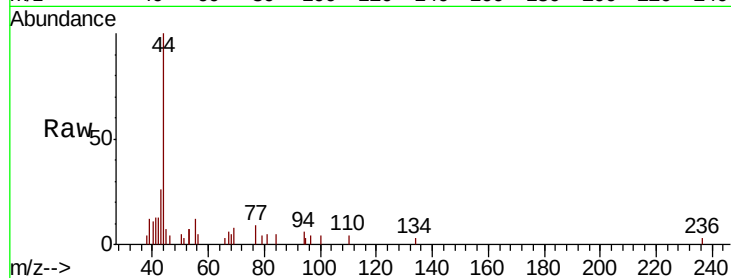
Tot Ion: 53 Resp: 417

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

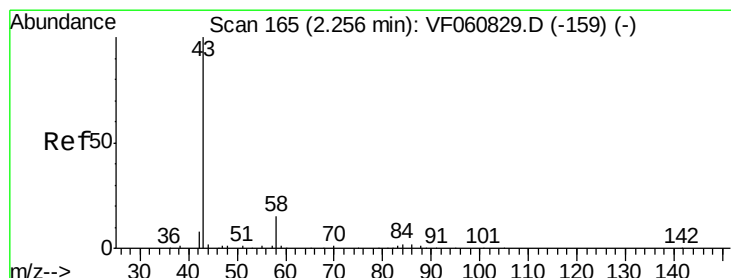
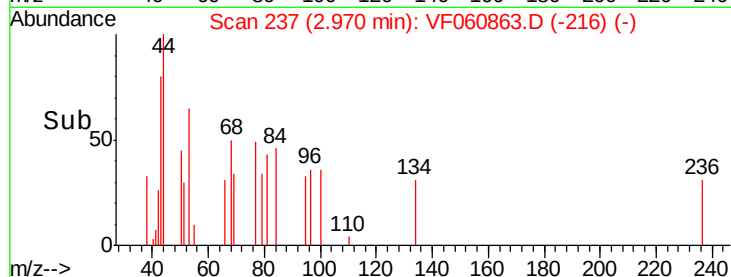
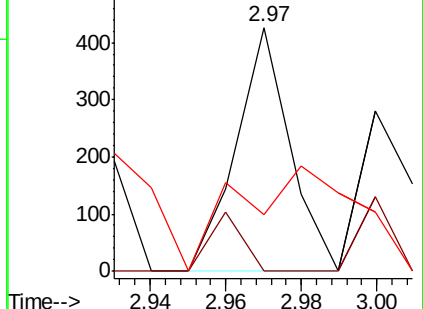
51 23.5 40.7 61.1#



Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0



#16

Acetone

Concen: 60.976 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060863.D

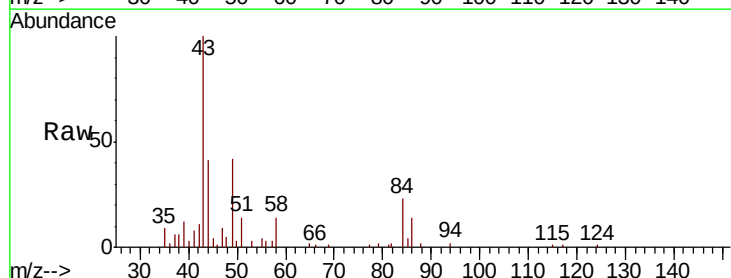
Acq: 28 Nov 2018 18:33

Tgt Ion: 43 Resp: 25350

Ion Ratio Lower Upper

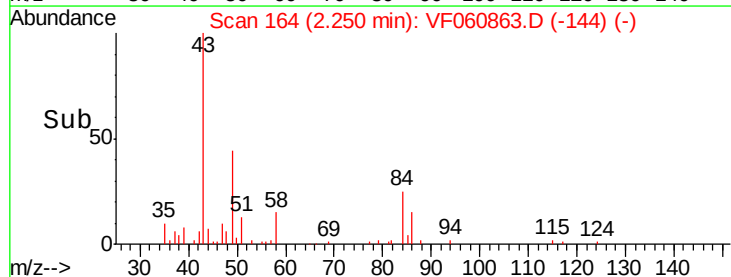
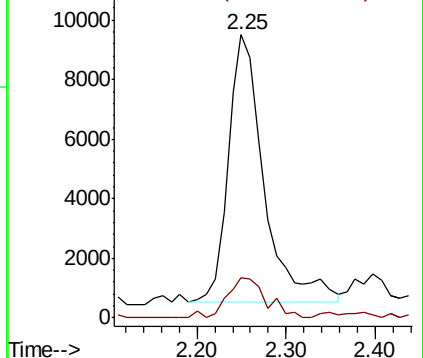
43 100

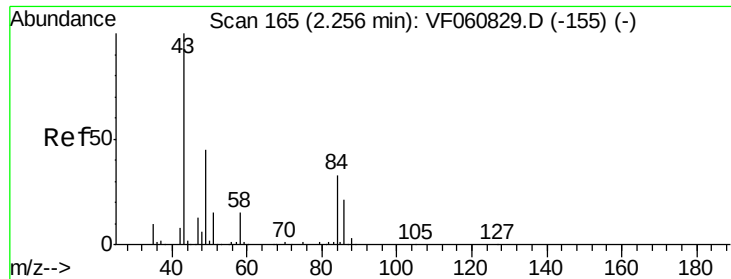
58 14.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

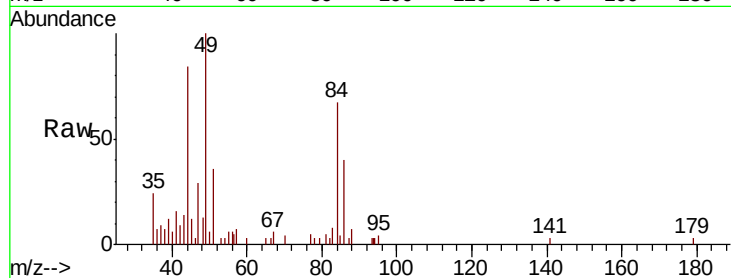




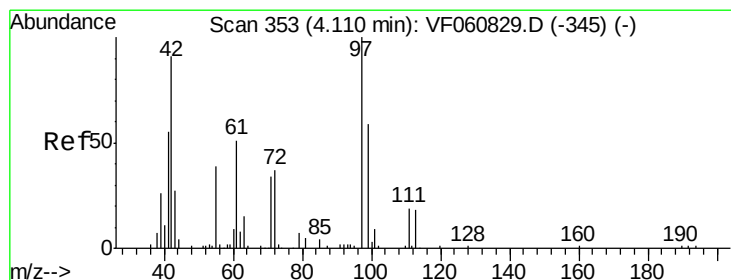
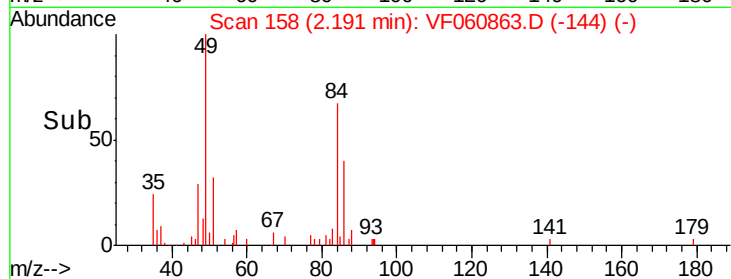
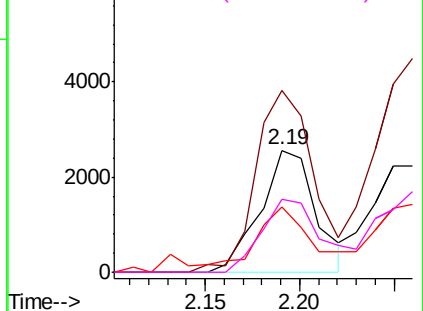
#20
Methylene Chloride
Concen: 3.435 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.07 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-BRE

Tot Ion:	84	Resp:	5239
Ion	Ratio	Lower	Upper
84	100		
49	149.8	111.3	166.9
51	53.5	38.0	57.0
86	59.8	49.8	74.8

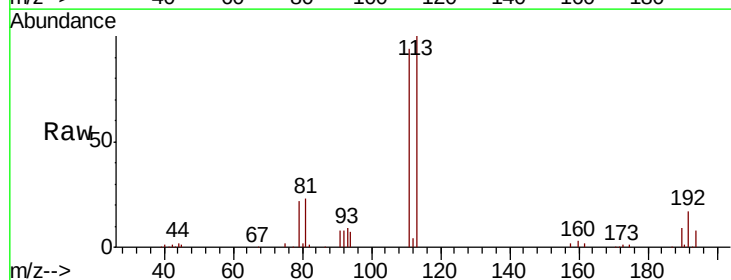


Abundance Ion 84.00 (83.70 to 84.70): VF0
Ion 49.00 (48.70 to 49.70): VF0
Ion 51.00 (50.70 to 51.70): VF0
Ion 86.00 (85.70 to 86.70): VF0

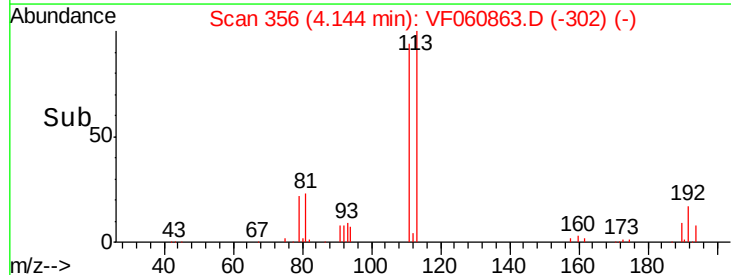
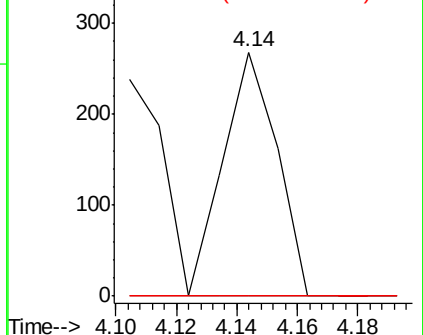


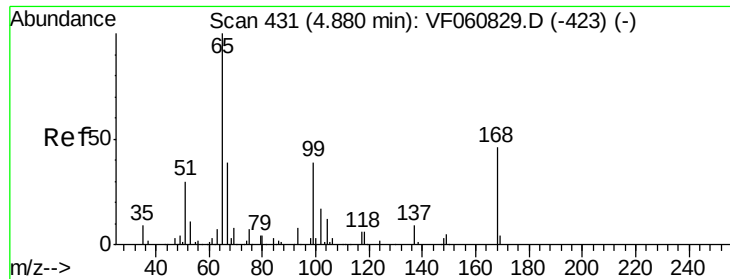
#29
Tetrahydrofuran
Concen: 1.092 ug/l
RT: 4.14 min Scan# 356
Delta R.T. 0.03 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

Tgt Ion:	42	Resp:	333
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.9	47.9#
71	0.0	28.7	43.1#



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

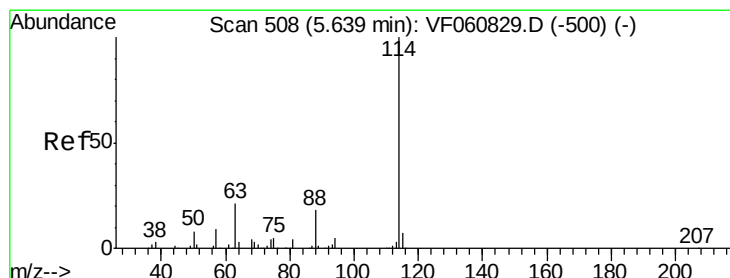
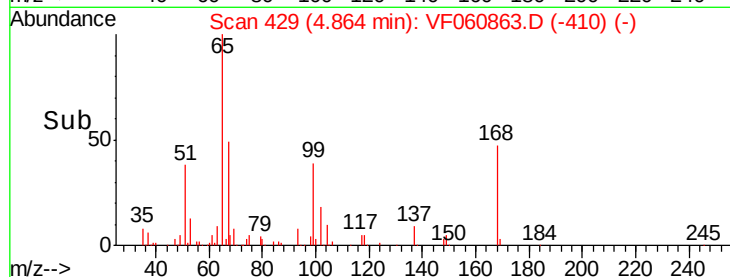
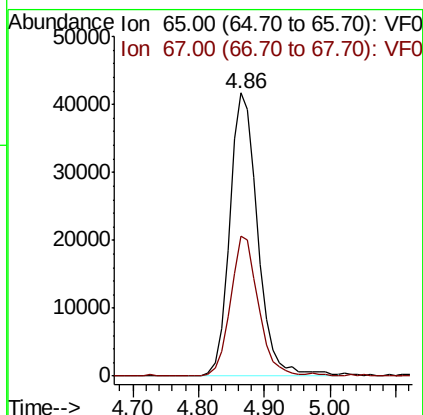
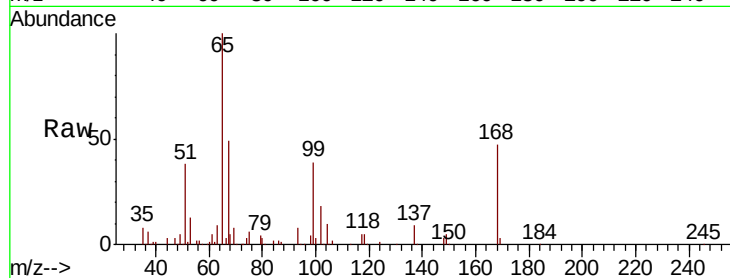




#33
 1,2-Dichloroethane-d4
 Concen: 55.192 ug/l
 RT: 4.86 min Scan# 429
 Delta R.T. -0.02 min
 Lab File: VF060863.D
 Acq: 28 Nov 2018 18:33

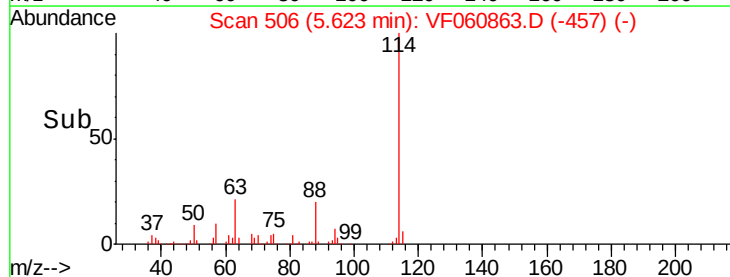
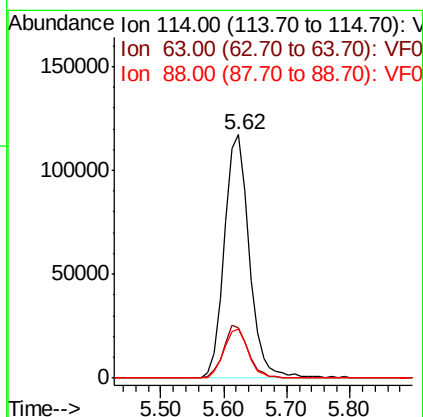
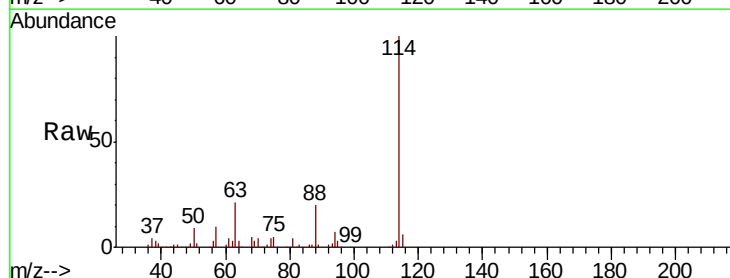
Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-112818-BRE

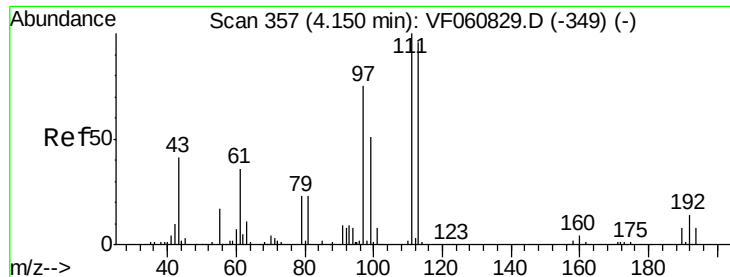
Tot Ion: 65 Resp: 124428
 Ion Ratio Lower Upper
 65 100
 67 49.5 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.62 min Scan# 506
 Delta R.T. -0.02 min
 Lab File: VF060863.D
 Acq: 28 Nov 2018 18:33

Tgt Ion: 114 Resp: 321859
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 41.6
 88 20.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 54.613 ug/l

RT: 4.13 min Scan# 355

Delta R.T. -0.02 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-BRE

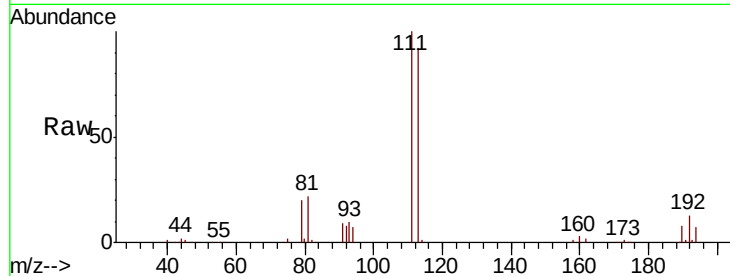
Tot Ion:113 Resp: 139449

Ion Ratio Lower Upper

113 100

111 109.0 83.0 124.6

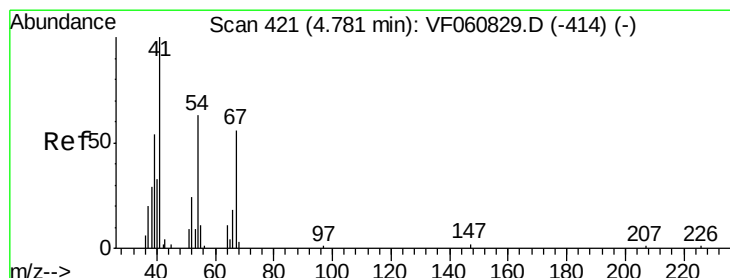
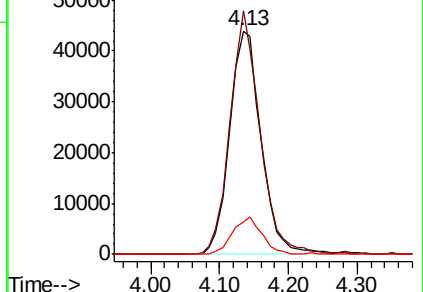
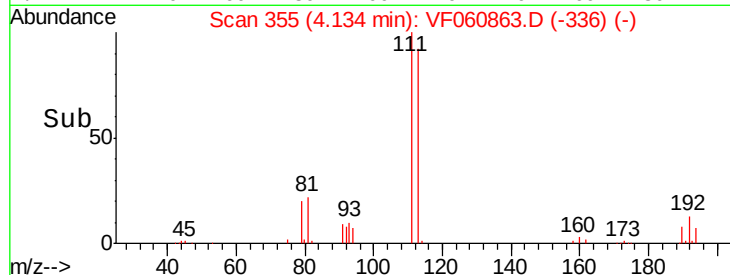
192 14.6 12.3 18.5



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.76 min Scan# 418

Delta R.T. -0.03 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

Tgt Ion: 41 Resp: 775

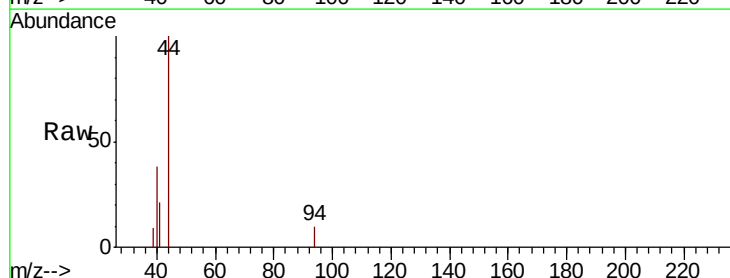
Ion Ratio Lower Upper

41 100

39 44.1 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

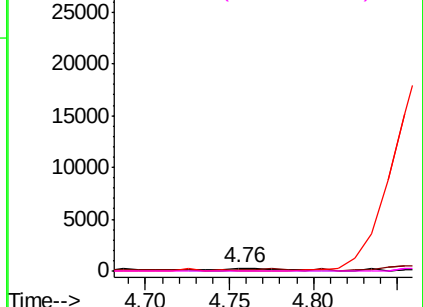
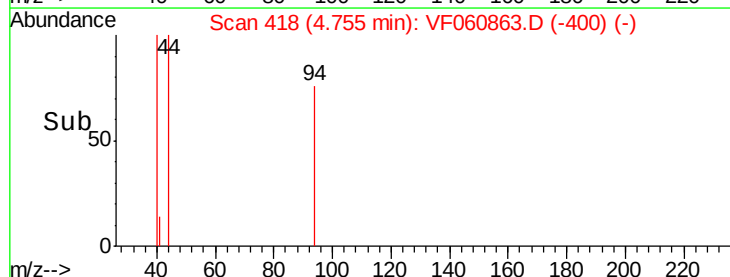


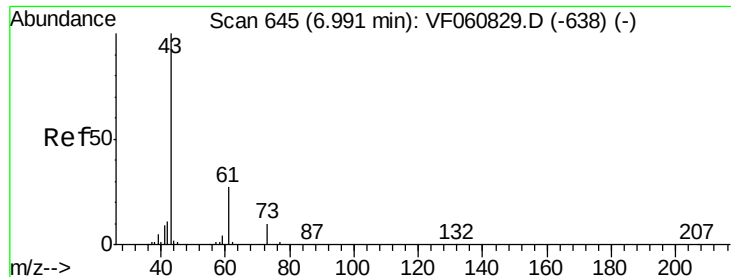
Abundance Ion 41.00 (40.70 to 41.70): VF0

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



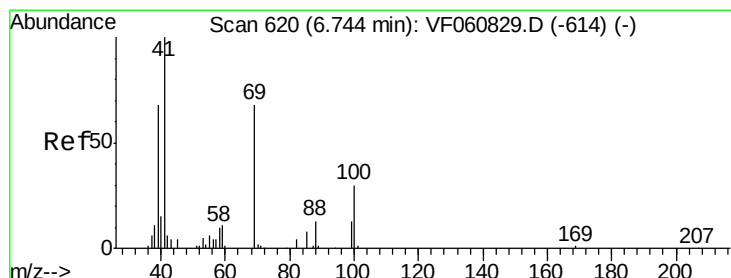
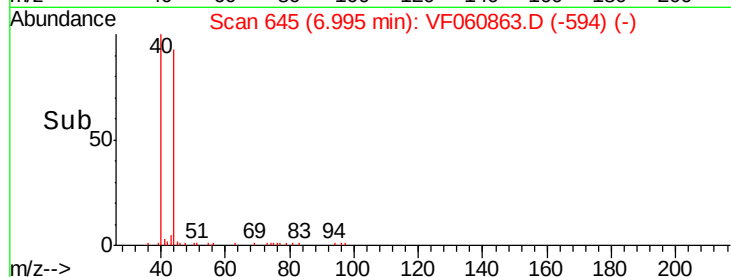
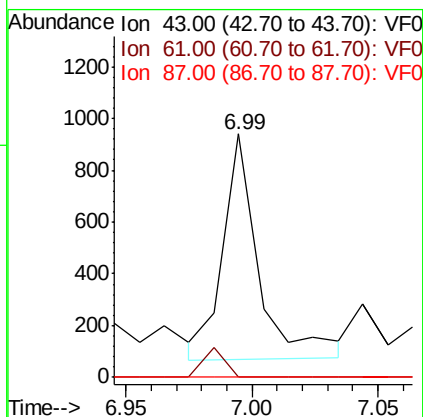
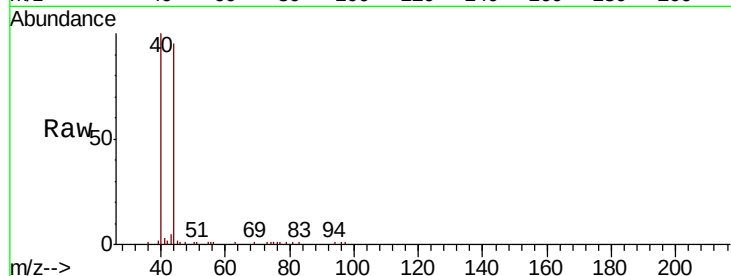


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.99 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VF060863.D
 Acq: 28 Nov 2018 18:33

Instrument :
 MSVOA_F
 ClientSampleId :
 CL-02-112818-BRE

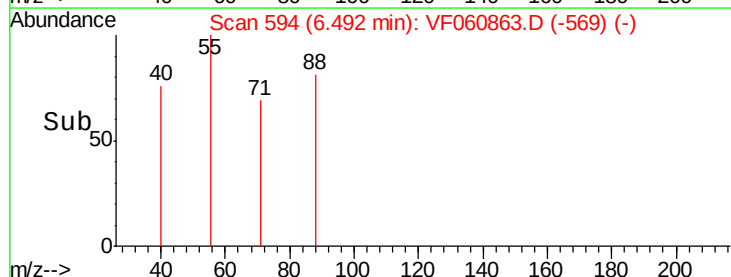
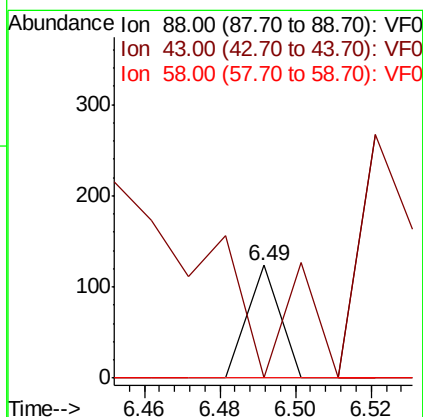
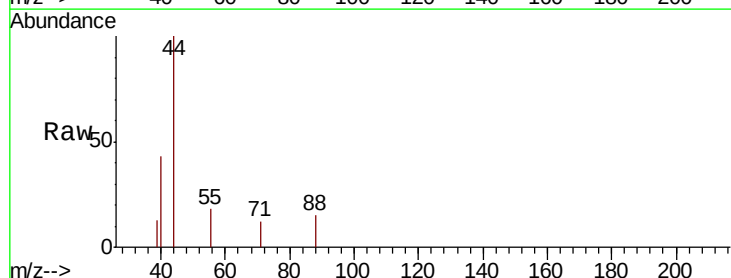
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

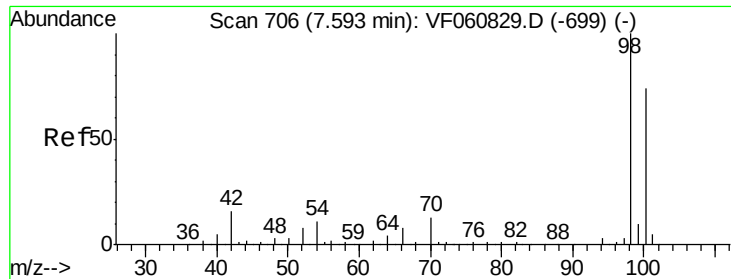


#49

1,4-Dioxane
 Concen: 7.596 ug/l
 RT: 6.49 min Scan# 594
 Delta R.T. -0.25 min
 Lab File: VF060863.D
 Acq: 28 Nov 2018 18:33

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	42.0	63.0#
58	0.0	61.8	92.8#

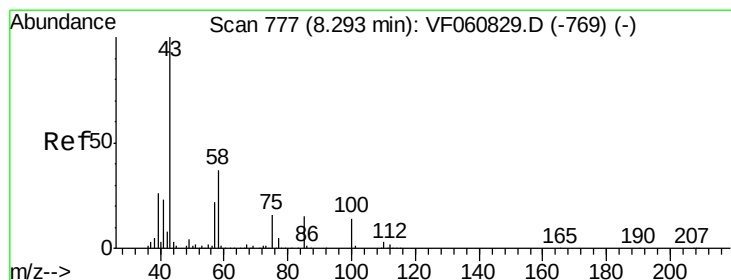
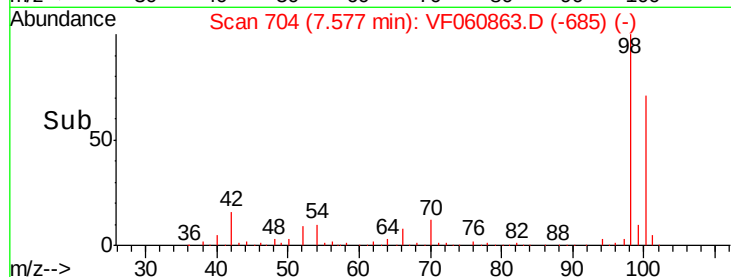
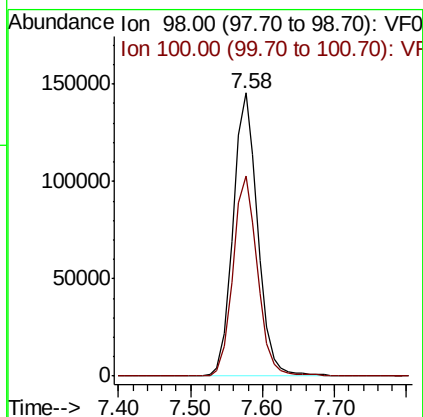
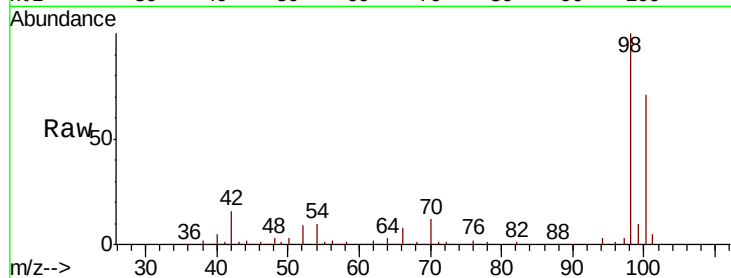




#50
Toluene-d8
Concen: 46.018 ug/l
RT: 7.58 min Scan# 704
Delta R.T. -0.02 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

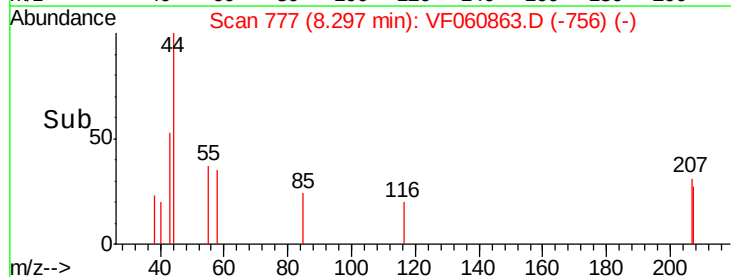
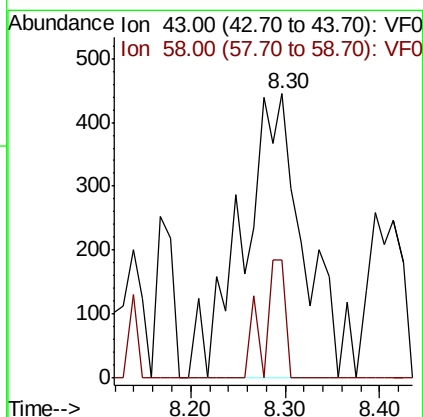
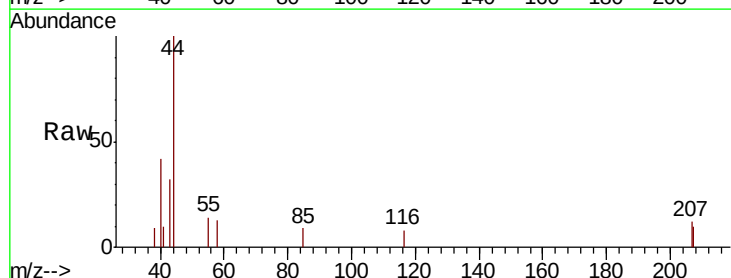
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-BRE

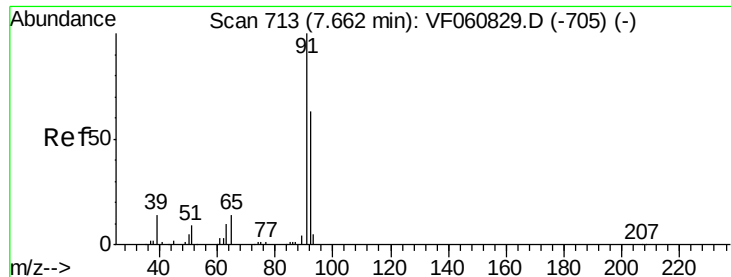
Tot Ion: 98 Resp: 346129
Ion Ratio Lower Upper
98 100
100 70.8 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 1.460 ug/l
RT: 8.30 min Scan# 777
Delta R.T. 0.00 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

Tgt Ion: 43 Resp: 1953
Ion Ratio Lower Upper
43 100
58 41.6 29.7 44.5





#52

Toluene

Concen: 1.734 ug/l

RT: 7.65 min Scan# 711

Delta R.T. -0.02 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

Instrument :

MSVOA_F

ClientSampleId :

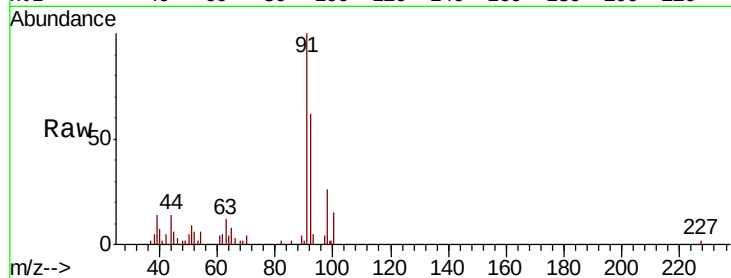
CL-02-112818-BRE

Tot Ion: 92 Resp: 9608

Ion Ratio Lower Upper

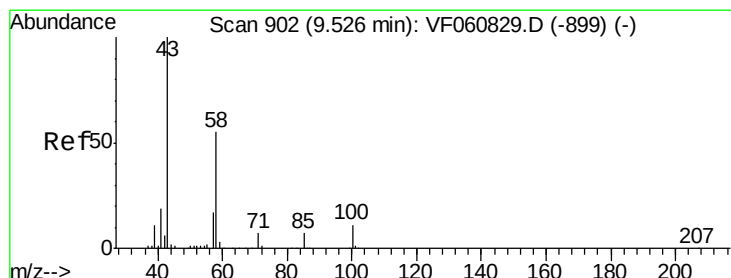
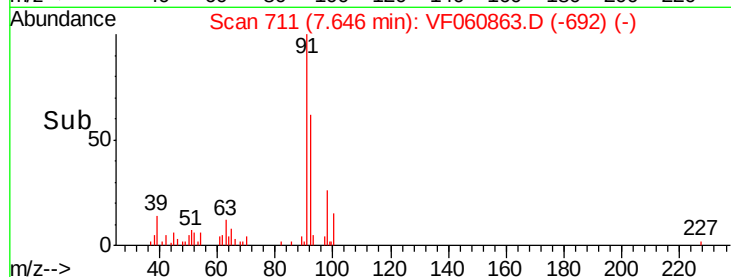
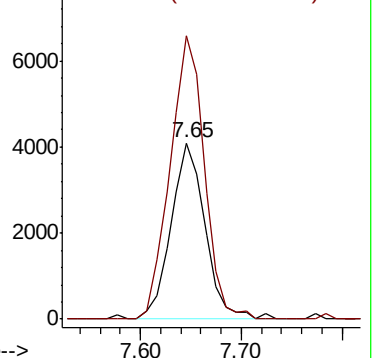
92 100

91 160.4 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 1.796 ug/l

RT: 9.51 min Scan# 900

Delta R.T. -0.02 min

Lab File: VF060863.D

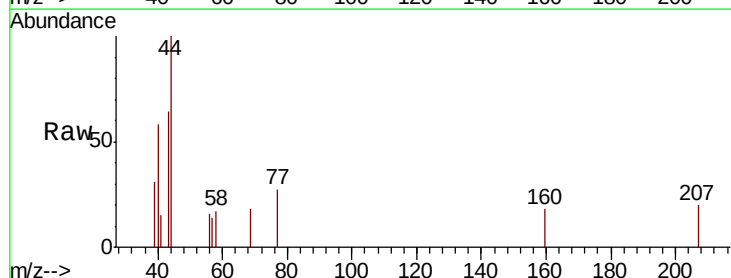
Acq: 28 Nov 2018 18:33

Tgt Ion: 43 Resp: 1686

Ion Ratio Lower Upper

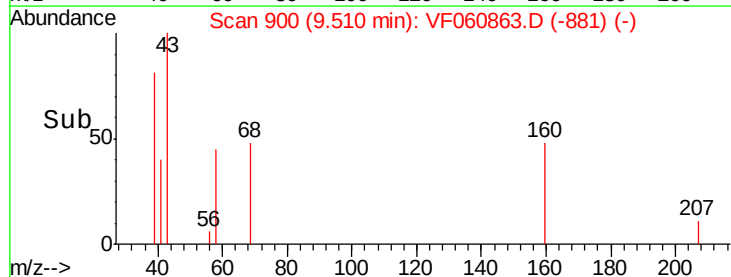
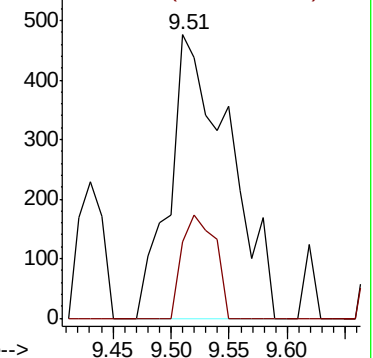
43 100

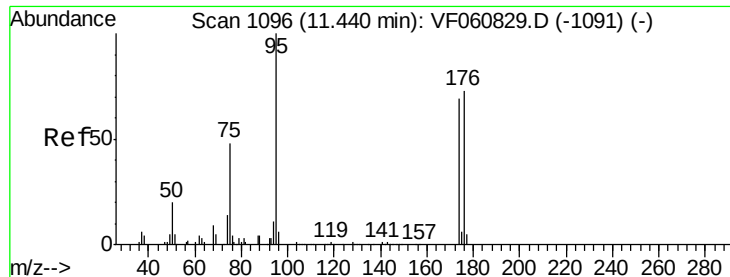
58 26.9 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

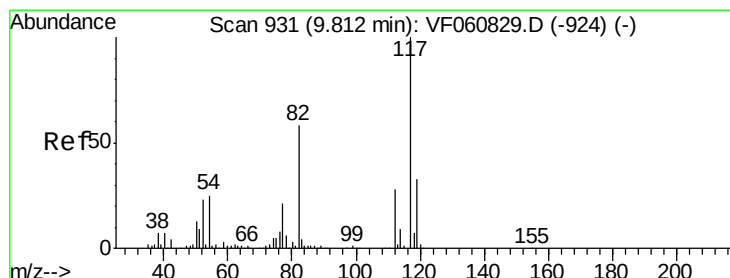
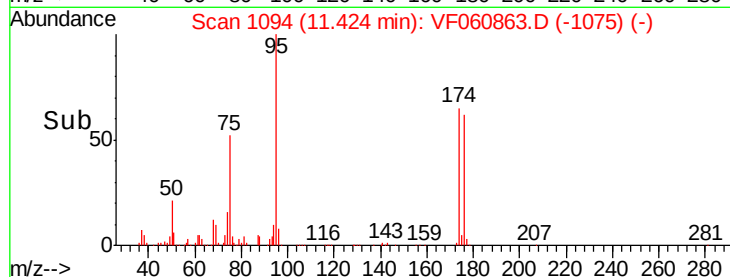
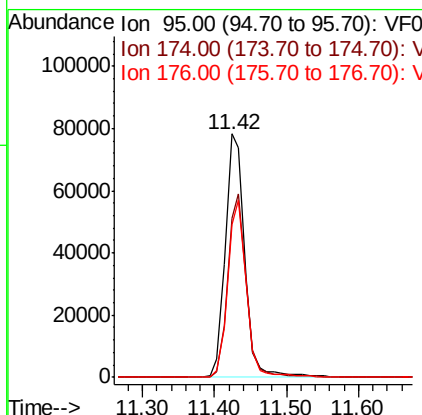
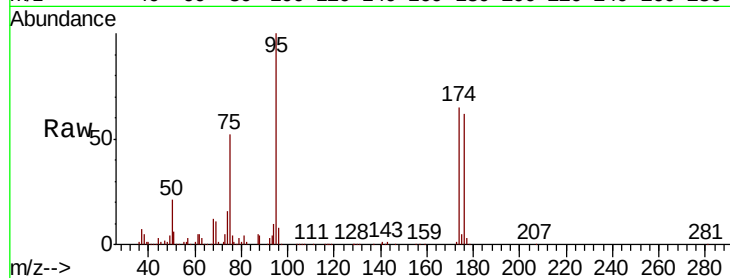




#62
4-Bromofluorobenzene
Concen: 42.905 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. -0.02 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

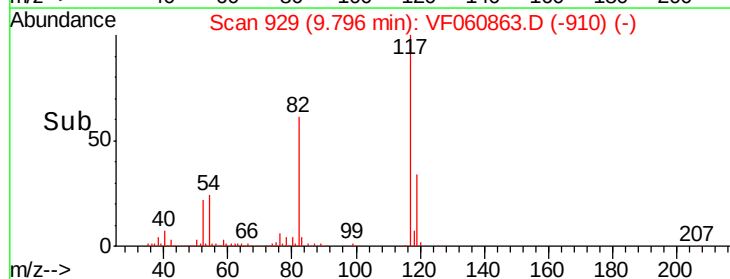
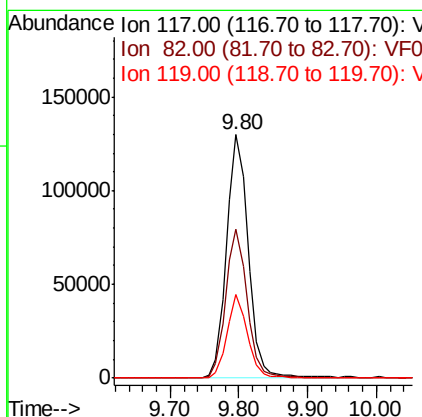
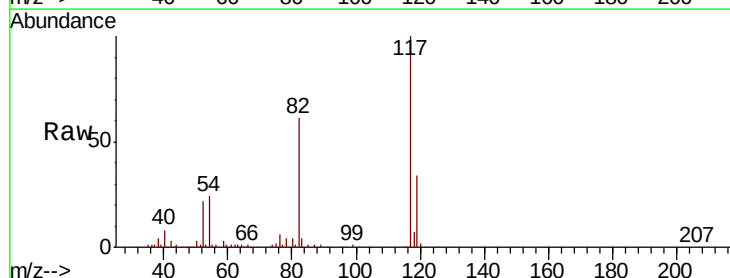
Instrument :
MSVOA_F
ClientSampleId :
CL-02-112818-BRE

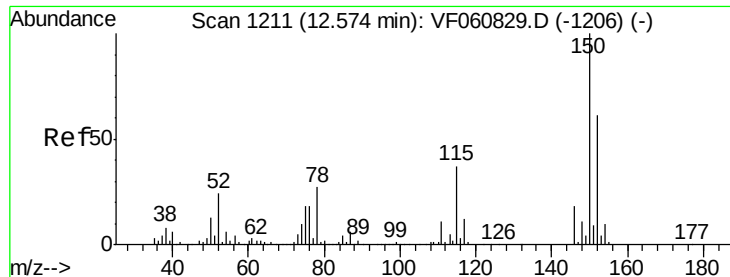
Tot Ion: 95 Resp: 146667
Ion Ratio Lower Upper
95 100
174 65.4 0.0 138.2
176 62.5 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.80 min Scan# 929
Delta R.T. -0.02 min
Lab File: VF060863.D
Acq: 28 Nov 2018 18:33

Tgt Ion: 117 Resp: 286229
Ion Ratio Lower Upper
117 100
82 61.0 46.6 69.8
119 34.2 26.4 39.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.57 min Scan# 1210

Delta R.T. -0.01 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

Instrument :

MSVOA_F

ClientSampleId :

CL-02-112818-BRE

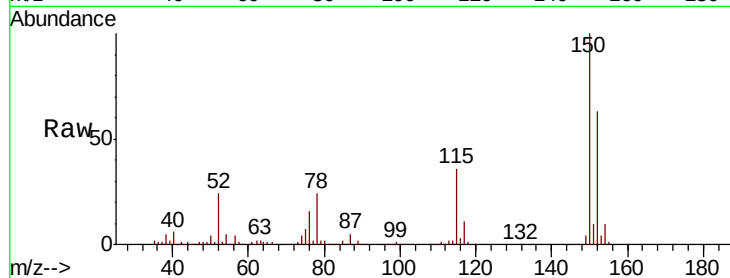
Tot Ion:152 Resp: 125266

Ion Ratio Lower Upper

152 100

115 57.4 30.1 90.5

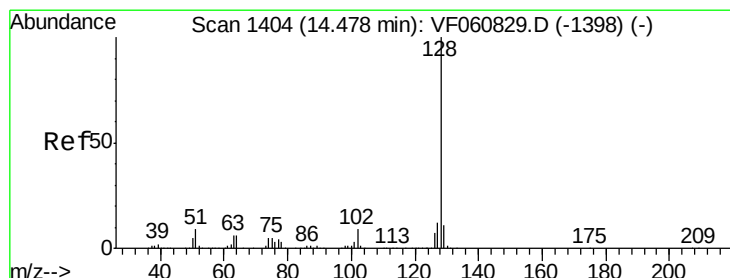
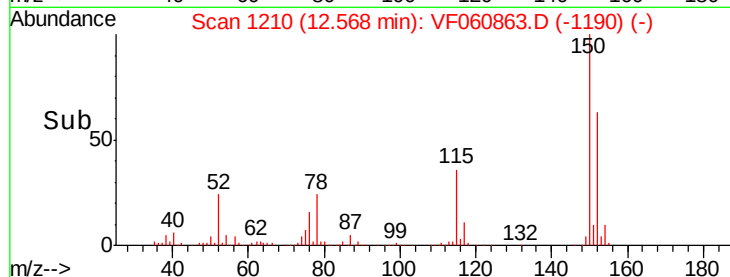
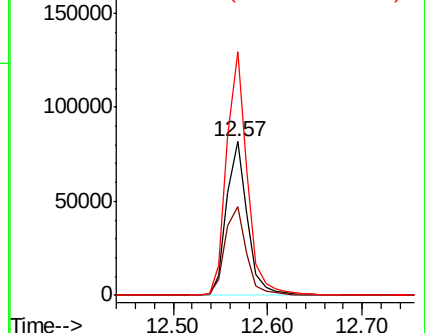
150 158.5 0.0 327.6



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



#95

Naphthalene

Concen: Below Cal

RT: 14.47 min Scan# 1403

Delta R.T. -0.01 min

Lab File: VF060863.D

Acq: 28 Nov 2018 18:33

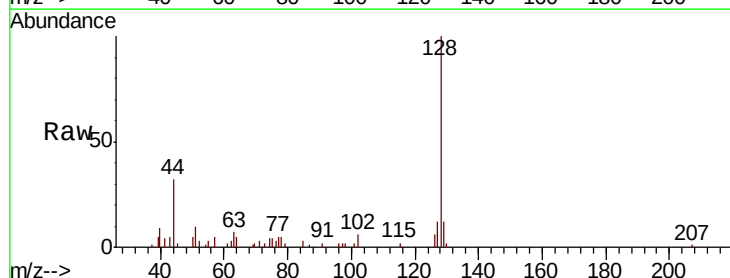
Tgt Ion:128 Resp: 11617

Ion Ratio Lower Upper

128 100

127 11.8 9.9 14.9

129 13.4 9.1 13.7



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

