

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120618\
 Data File : VF060924.D
 Acq On : 6 Dec 2018 18:34
 Operator : VA/AP
 Sample : J6202-01RE
 Misc : 4.92g/5mL/MSVOA-F/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 07 00:21:52 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	4.86	168	206672	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	348354	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.78	117	309933	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	164024	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.83	65	113457	46.60	ug/l	-0.05
Spiked Amount			Recovery	=	93.20%	
35) Dibromofluoromethane	4.10	113	122163	44.20	ug/l	-0.05
Spiked Amount			Recovery	=	88.40%	
50) Toluene-d8	7.55	98	291735	35.84	ug/l	-0.05
Spiked Amount			Recovery	=	71.68%	
62) 4-Bromofluorobenzene	11.41	95	151629	40.98	ug/l	-0.03
Spiked Amount			Recovery	=	81.96%	

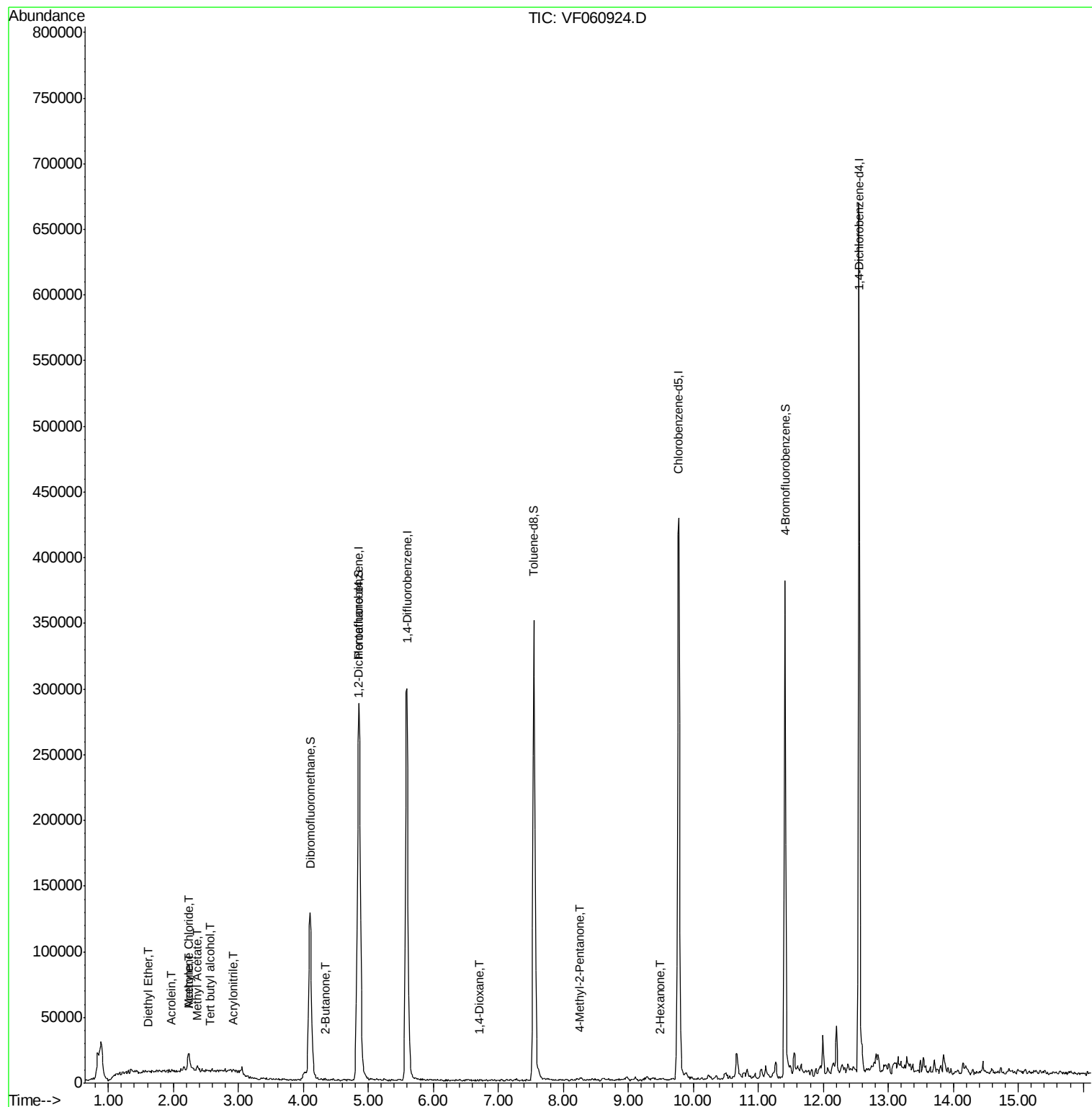
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.62	74	611	1.056	ug/l	69
11) Tert butyl alcohol	2.57	59	431	4.319	ug/l #	1
13) Acrolein	1.98	56	716	7.572	ug/l #	80
15) Acrylonitrile	2.93	53	491	2.194	ug/l #	53
16) Acetone	2.23	43	20228	45.055	ug/l	95
18) Methyl Acetate	2.37	43	2380	1.560	ug/l #	61
20) Methylene Chloride	2.24	84	3060	1.858	ug/l #	74
25) 2-Butanone	4.33	43	2245	2.891	ug/l #	57
41) Methacrylonitrile	4.74	41	395	Below Cal	#	55
43) Isopropyl Acetate	6.96	43	363	Below Cal	#	49
49) 1,4-Dioxane	6.71	88	80	7.691	ug/l #	1
51) 4-Methyl-2-Pentanone	8.26	43	2155	1.488	ug/l #	63
59) 2-Hexanone	9.48	43	1738	1.711	ug/l	65
95) Naphthalene	14.45	128	3080	Below Cal	#	87

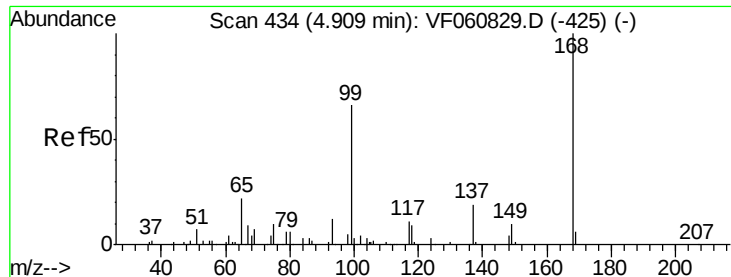
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF120618\
Data File : VF060924.D
Acq On : 6 Dec 2018 18:34
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Instrument :
MSVOA_F
ClientSampleId :

Quant Time: Dec 07 00:21:52 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_F\METHODS\82F112618S.M
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: 4.86 min Scan# 429

Delta R.T. -0.05 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

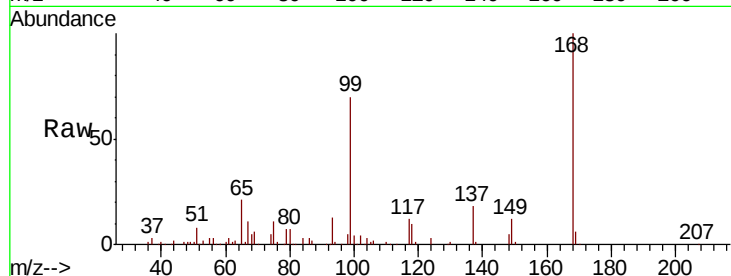
ClientSampled :

Tot Ion:168 Resp: 206672

Ion Ratio Lower Upper

168 100

99 69.5 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.86

60000

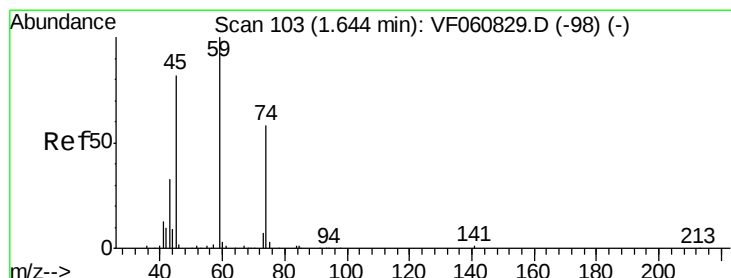
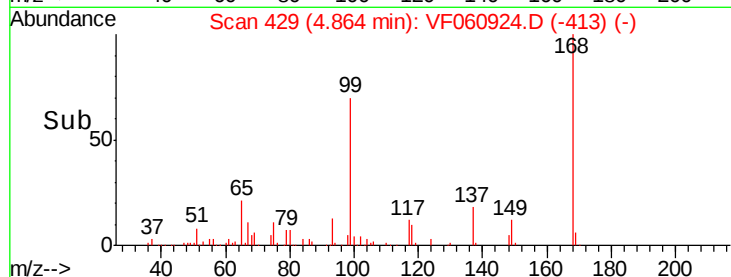
40000

20000

0

Time-->

4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 1.056 ug/l

RT: 1.62 min Scan# 100

Delta R.T. -0.03 min

Lab File: VF060924.D

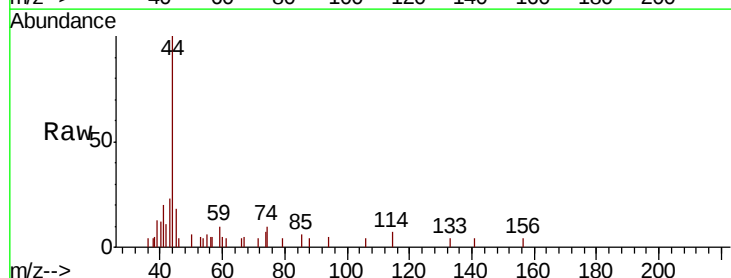
Acq: 6 Dec 2018 18:34

Tgt Ion: 74 Resp: 611

Ion Ratio Lower Upper

74 100

45 104.4 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

800

600

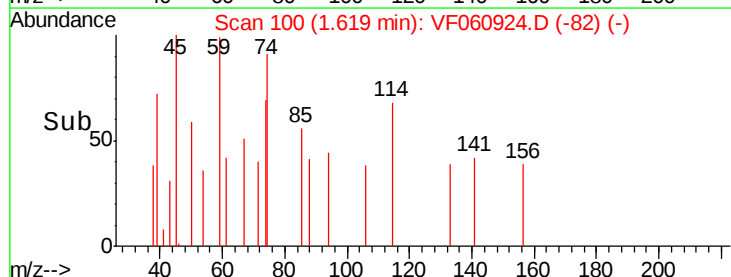
400

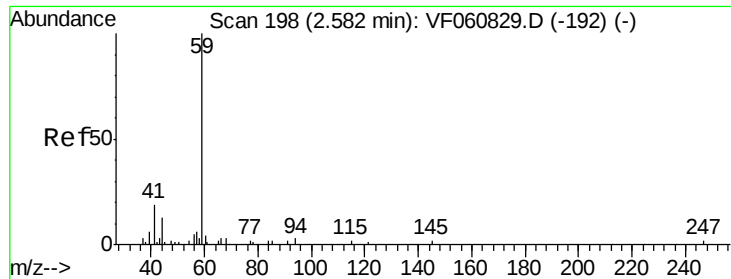
200

0

Time-->

1.60 1.65

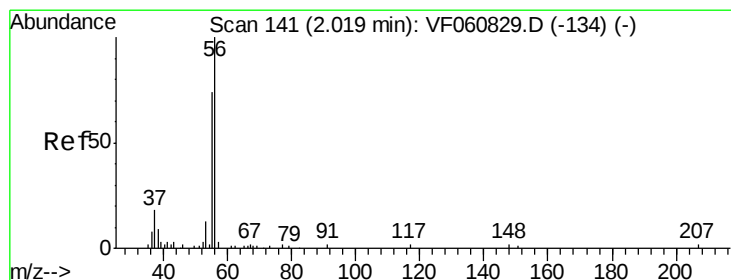
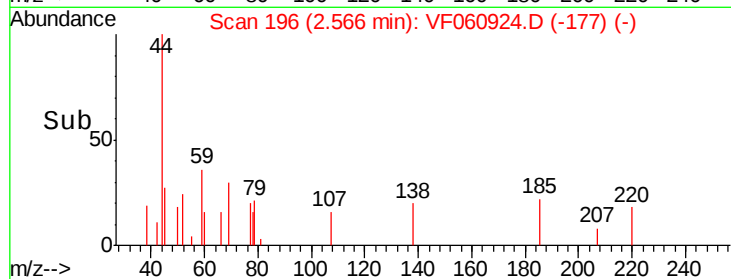
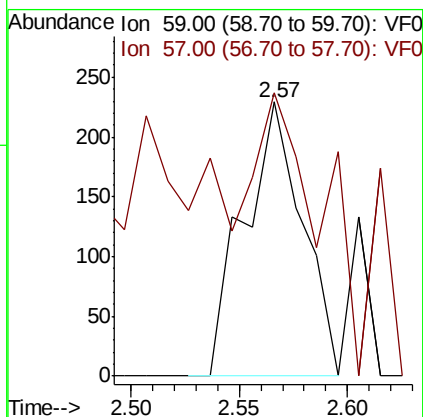
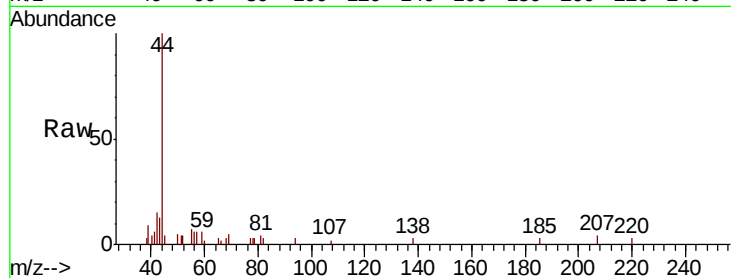




#11
Tert butyl alcohol
Concen: 4.319 ug/l
RT: 2.57 min Scan# 196
Delta R.T. -0.02 min
Lab File: VF060924.D
Acq: 6 Dec 2018 18:34

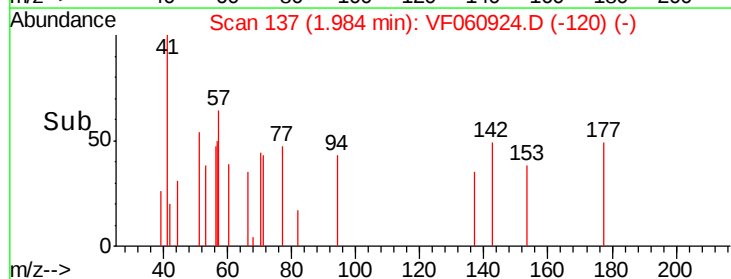
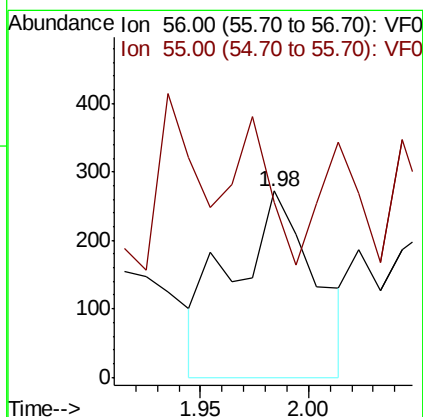
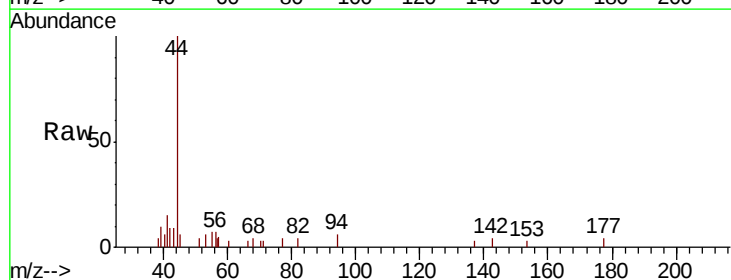
Instrument :
MSVOA_F
ClientSampled :

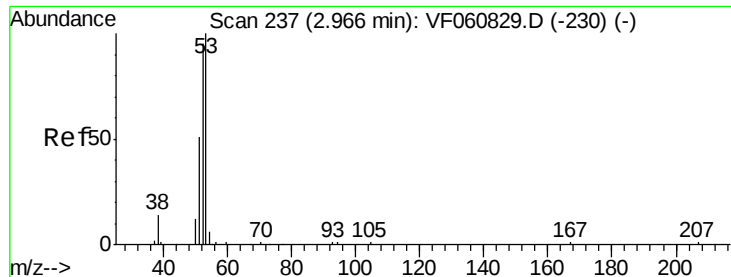
Tot Ion: 59.00 Resp: 431
Ion Ratio Lower Upper
59 100
57 103.5 12.7 19.1#



#13
Acrolein
Concen: 7.572 ug/l
RT: 1.98 min Scan# 137
Delta R.T. -0.04 min
Lab File: VF060924.D
Acq: 6 Dec 2018 18:34

Tgt Ion: 56 Resp: 716
Ion Ratio Lower Upper
56 100
55 93.8 61.2 91.8#





#15

Acrylonitrile

Concen: 2.194 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.04 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

ClientSampleId :

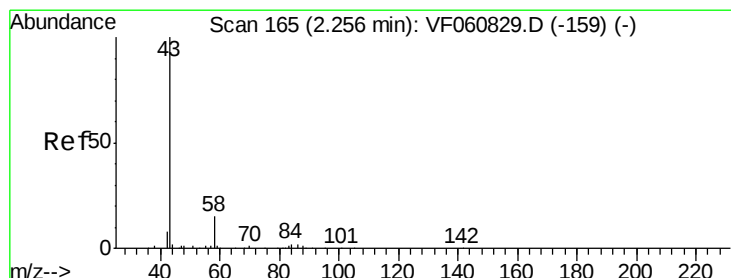
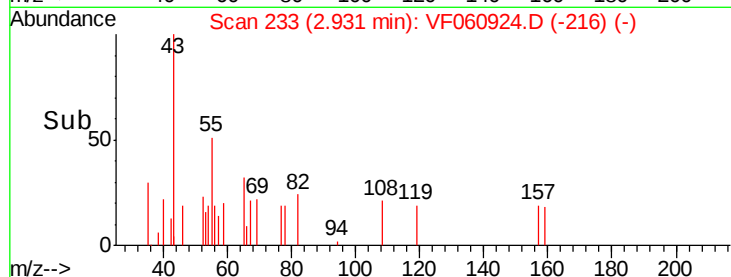
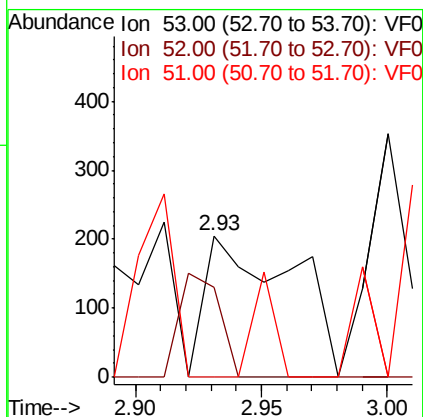
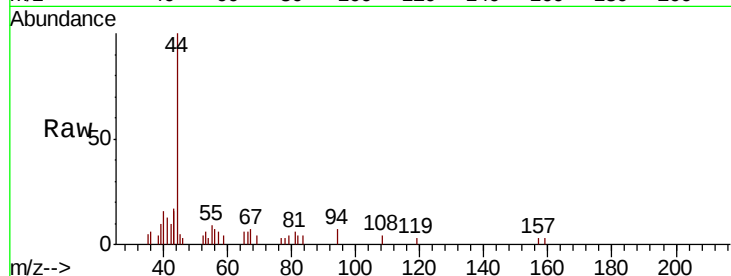
Tot Ion: 53 Resp: 491

Ion Ratio Lower Upper

53 100

52 63.4 76.5 114.7#

51 0.0 40.7 61.1#



#16

Acetone

Concen: 45.055 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF060924.D

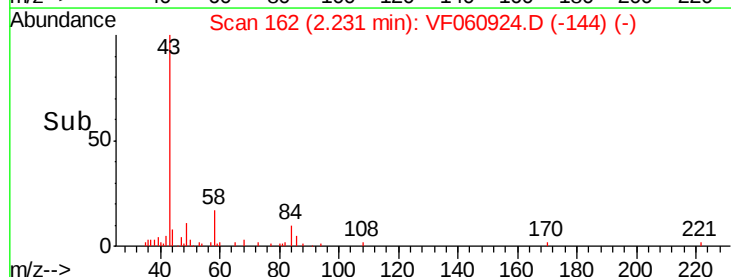
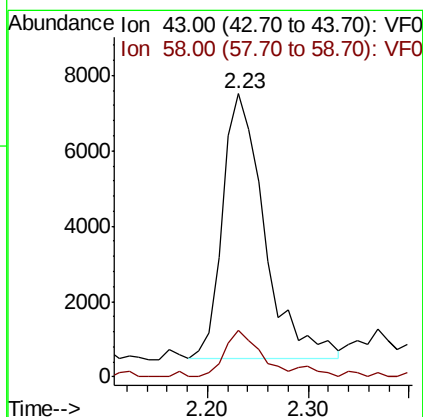
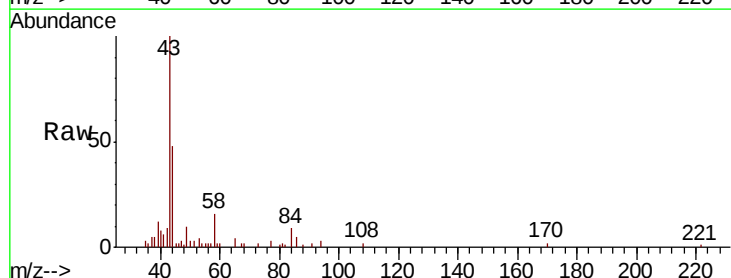
Acq: 6 Dec 2018 18:34

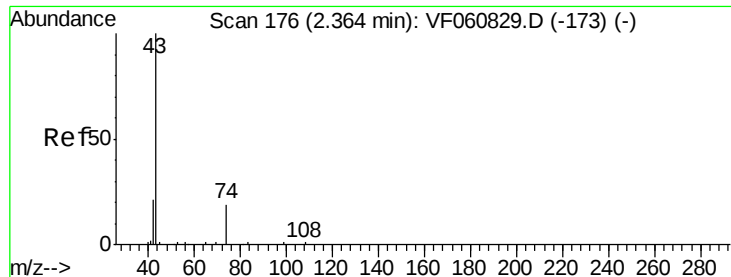
Tgt Ion: 43 Resp: 20228

Ion Ratio Lower Upper

43 100

58 16.4 11.4 17.2





#18

Methvl Acetate

Concen: 1.560 ug/l

RT: 2.37 min Scan# 176

Delta R.T. 0.00 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

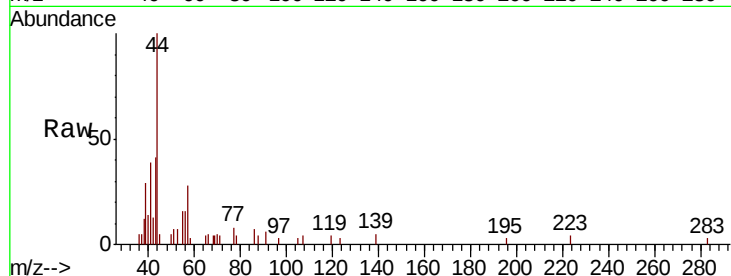
ClientSampleId :

Tot Ion: 43 Resp: 2380

Ion Ratio Lower Upper

43 100

74 0.0 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

2000

1500

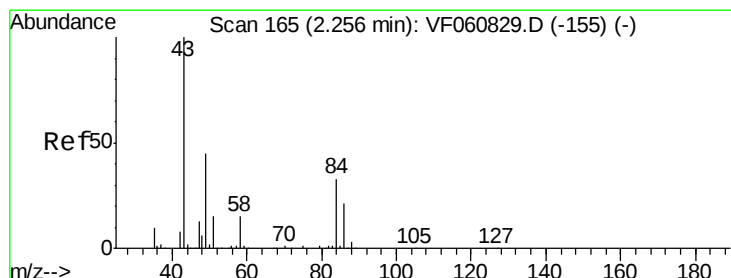
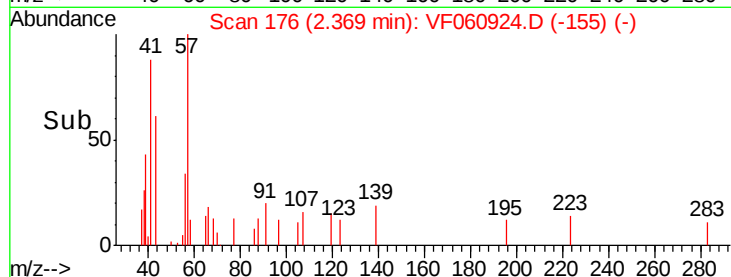
1000

500

0

2.30 2.35 2.40 2.45

Time-->



#20

Methylene Chloride

Concen: 1.858 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Tgt Ion: 84 Resp: 3060

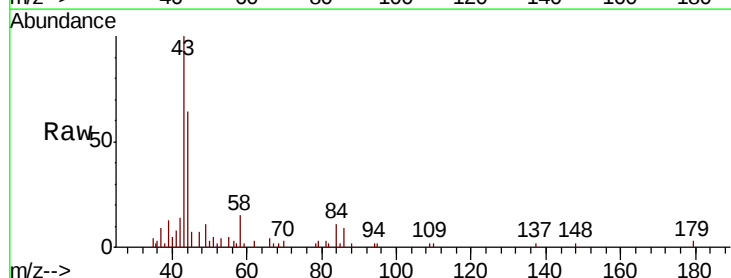
Ion Ratio Lower Upper

84 100

49 100.1 111.3 166.9#

51 44.9 38.0 57.0

86 85.0 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

1500

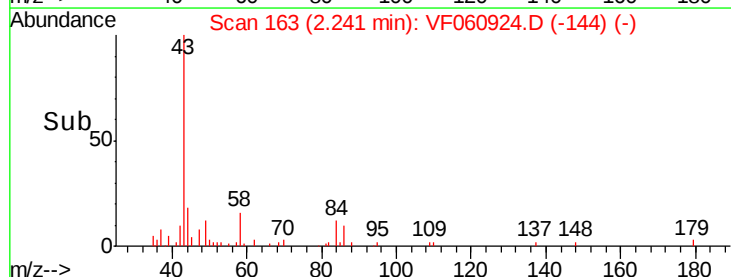
1000

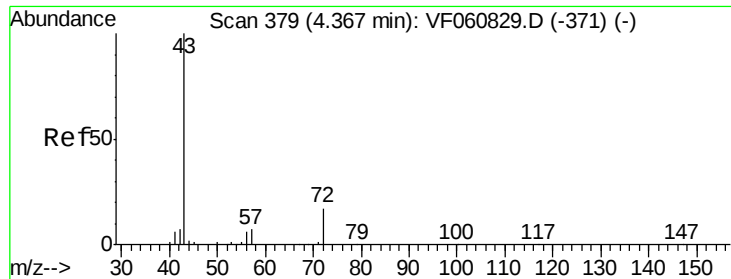
500

0

2.20 2.25 2.30 2.35 2.40

Time-->





#25

2-Butanone

Concen: 2.891 ug/l

RT: 4.33 min Scan# 375

Delta R.T. -0.04 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

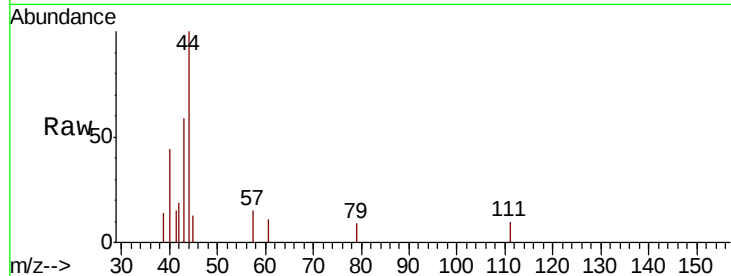
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 2245

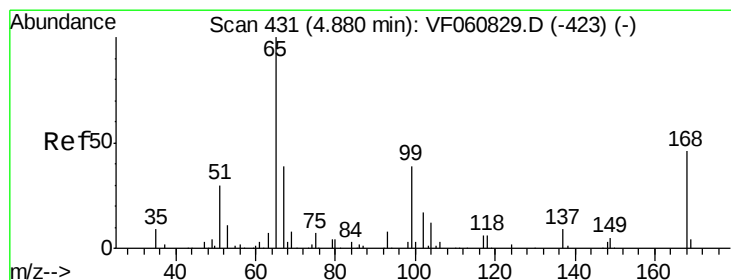
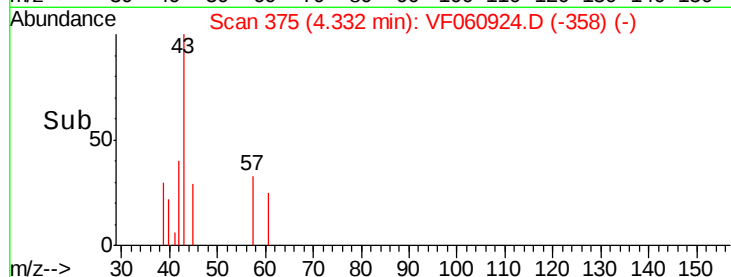
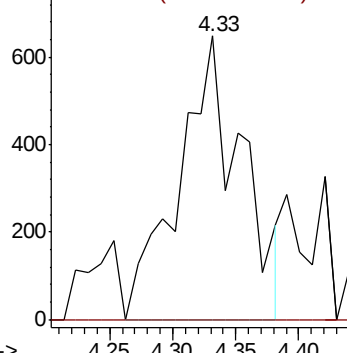
Ion Ratio Lower Upper

43 100

72 0.0 15.4 23.2#



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



#33

1,2-Dichloroethane-d4

Concen: 46.601 ug/l

RT: 4.83 min Scan# 426

Delta R.T. -0.05 min

Lab File: VF060924.D

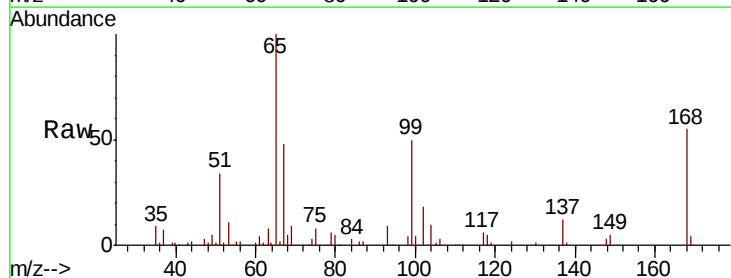
Acq: 6 Dec 2018 18:34

Tgt Ion: 65 Resp: 113457

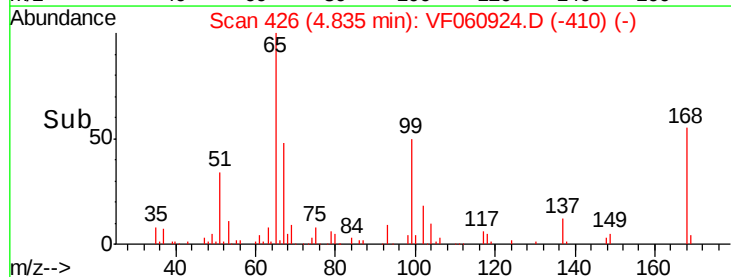
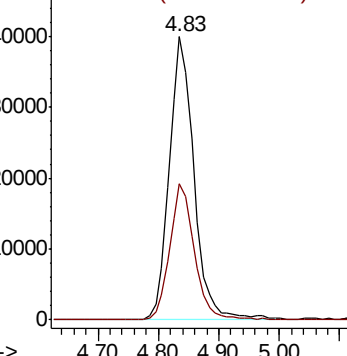
Ion Ratio Lower Upper

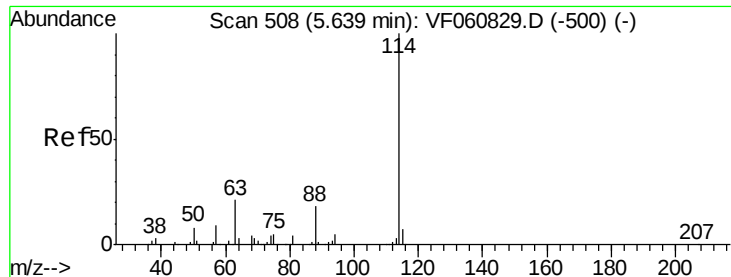
65 100

67 48.0 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: 5.59 min Scan# 503

Delta R.T. -0.05 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

ClientSampleId :

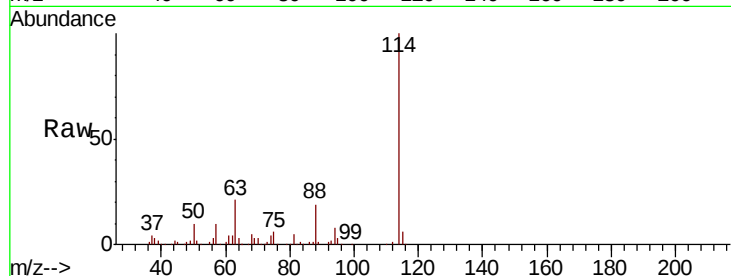
Tot Ion:114 Resp: 348354

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.6

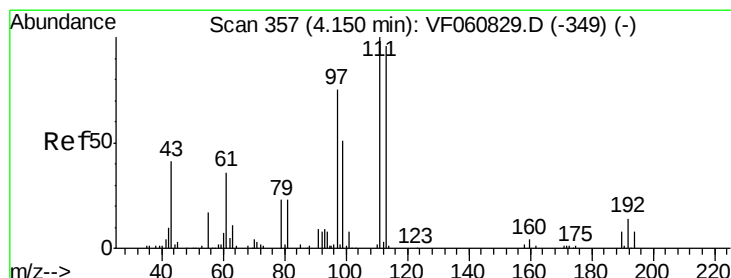
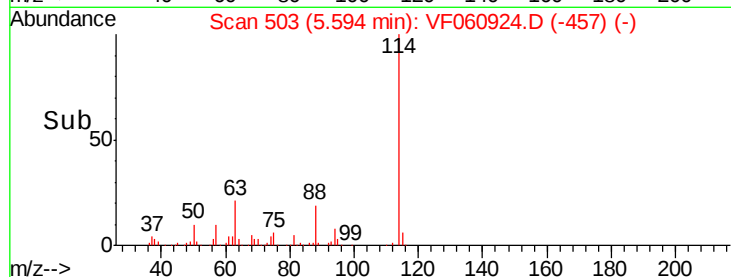
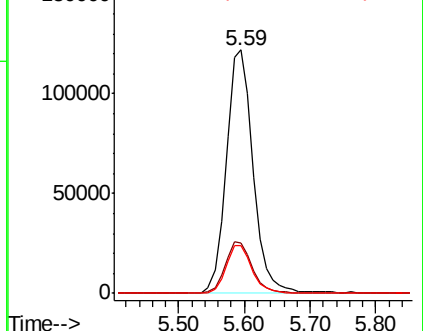
88 19.4 0.0 36.6



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: 44.205 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

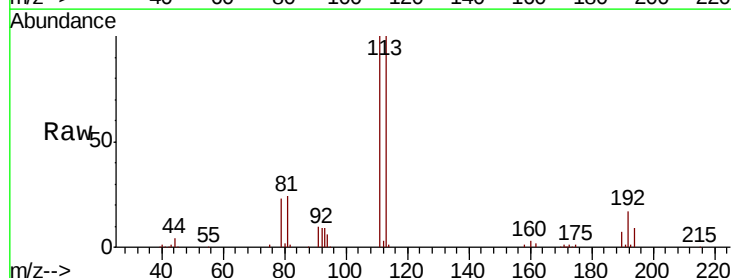
Tgt Ion:113 Resp: 122163

Ion Ratio Lower Upper

113 100

111 99.6 83.0 124.6

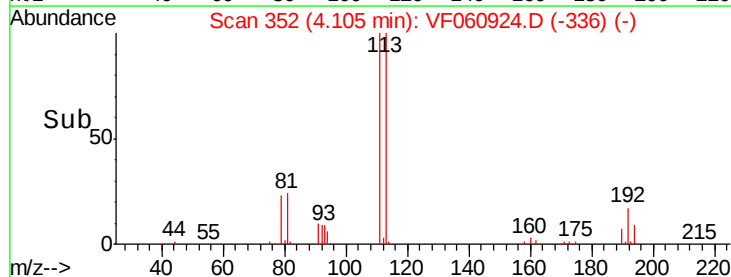
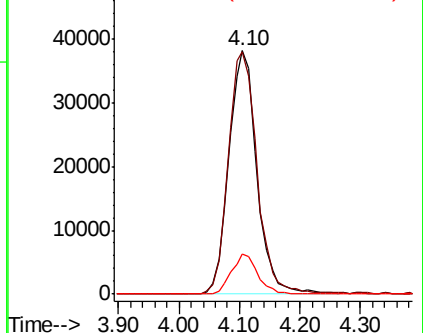
192 16.6 12.3 18.5

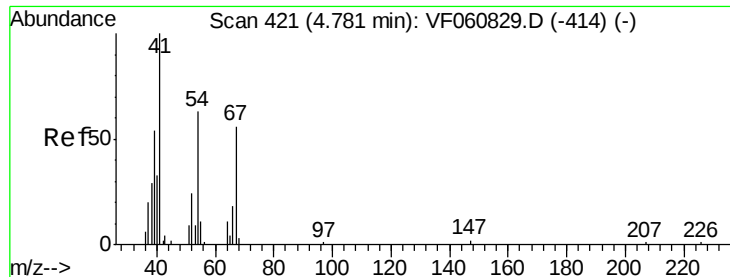


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

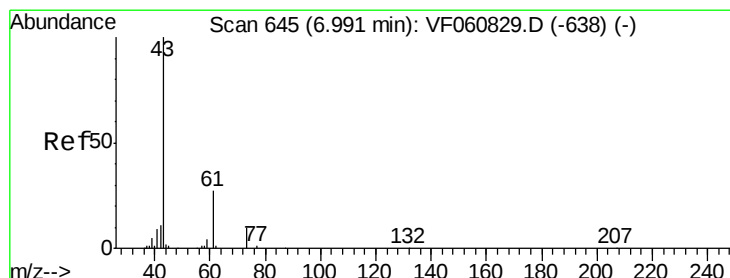
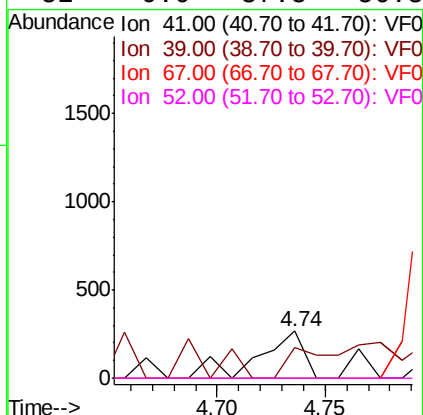
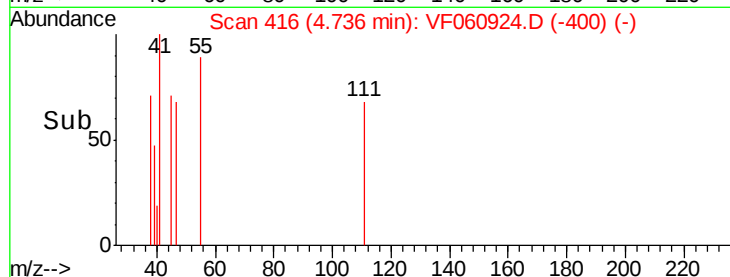
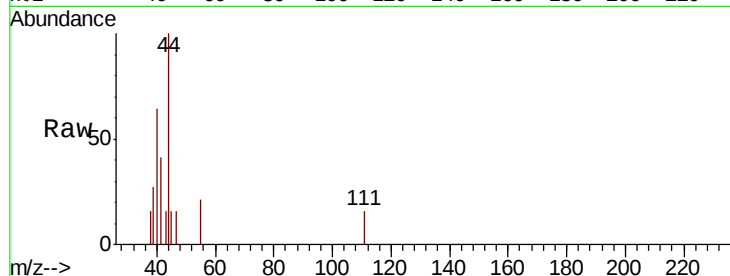




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.74 min Scan# 416
Delta R.T. -0.04 min
Lab File: VF060924.D
Acq: 6 Dec 2018 18:34

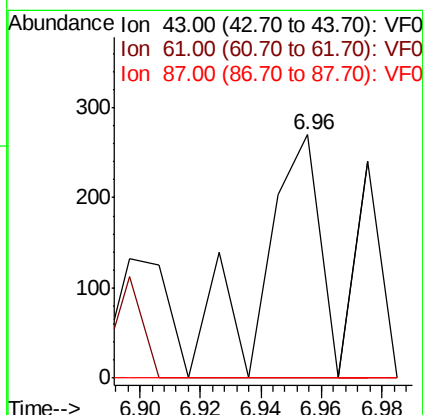
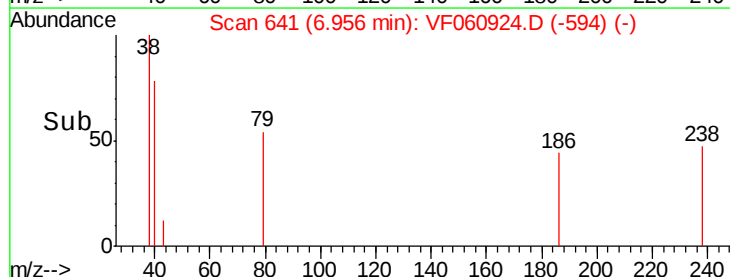
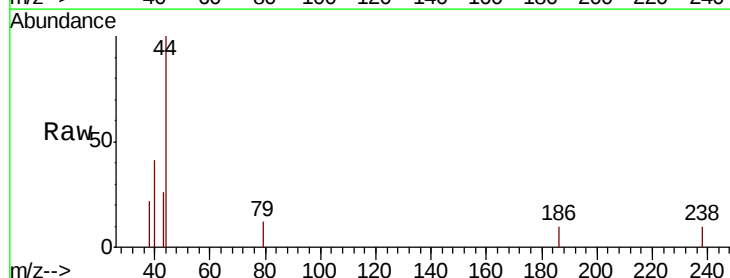
Instrument :
MSVOA_F
ClientSampled :

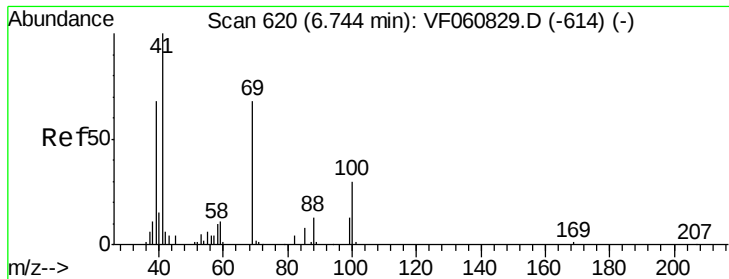
Tot Ion: 41 Resp: 395
Ion Ratio Lower Upper
41 100
39 64.8 53.0 79.6
67 0.0 43.8 65.6#
52 0.0 37.8 56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.96 min Scan# 641
Delta R.T. -0.03 min
Lab File: VF060924.D
Acq: 6 Dec 2018 18:34

Tgt Ion: 43 Resp: 363
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.0#
87 0.0 0.2 0.4#

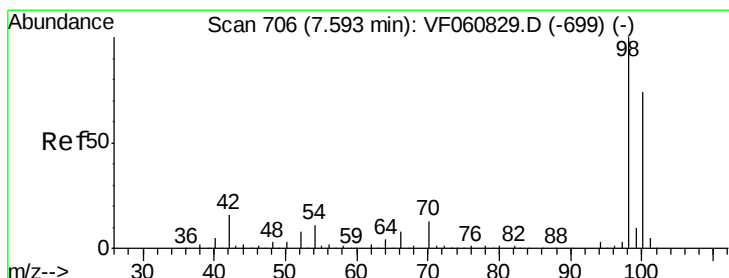
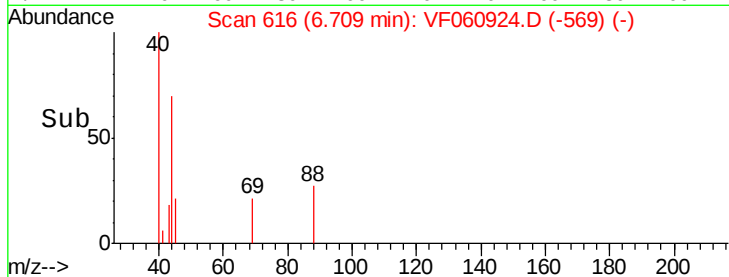
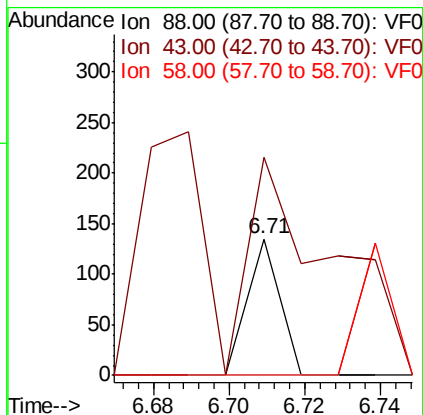
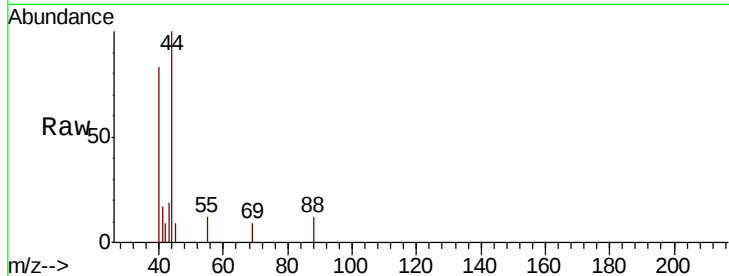




#49
1,4-Dioxane
Concen: 7.691 ug/l
RT: 6.71 min Scan# 616
Delta R.T. -0.04 min
Lab File: VF060924.D
Acq: 6 Dec 2018 18:34

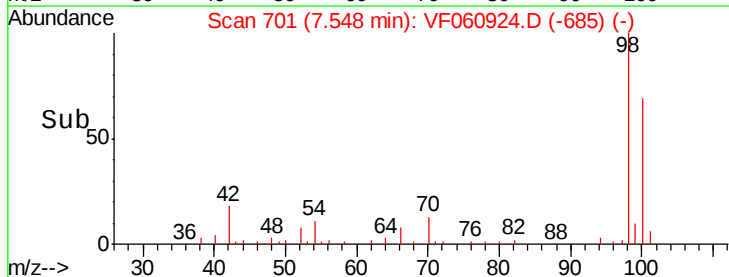
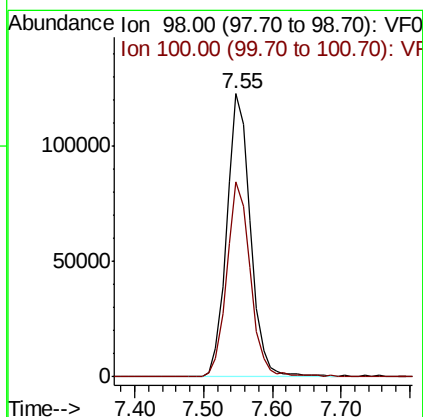
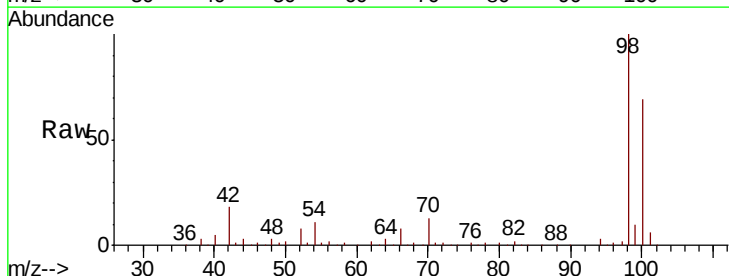
Instrument :
MSVOA_F
ClientSampled :

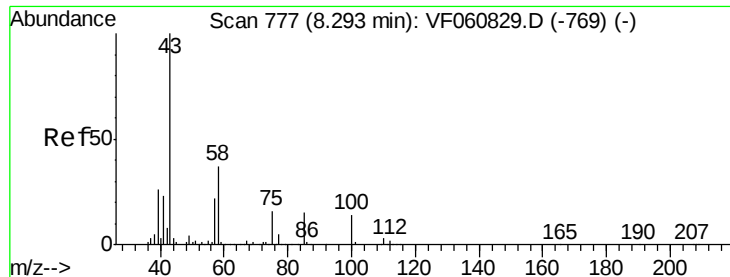
Tot Ion: 88 Resp: 80
Ion Ratio Lower Upper
88 100
43 159.3 42.0 63.0#
58 0.0 61.8 92.8#



#50
Toluene-d8
Concen: 35.837 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF060924.D
Acq: 6 Dec 2018 18:34

Tgt Ion: 98 Resp: 291735
Ion Ratio Lower Upper
98 100
100 69.0 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 1.488 ug/l

RT: 8.26 min Scan# 773

Delta R.T. -0.04 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

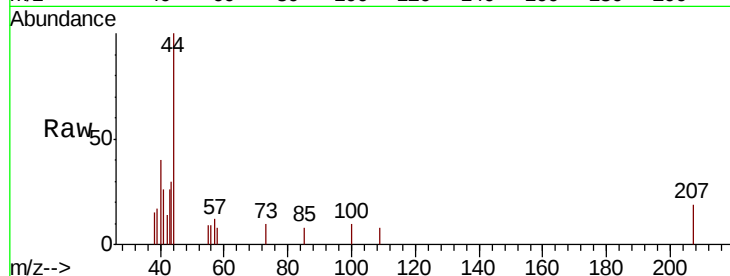
ClientSampleId :

Tot Ion: 43 Resp: 2155

Ion Ratio Lower Upper

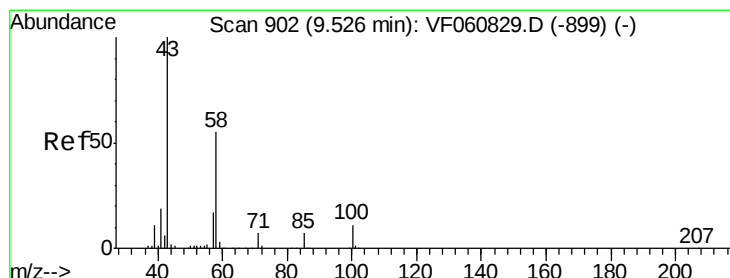
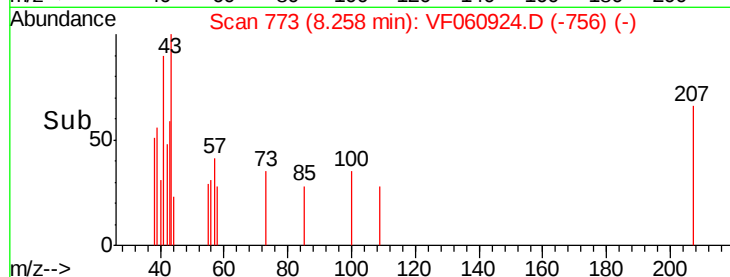
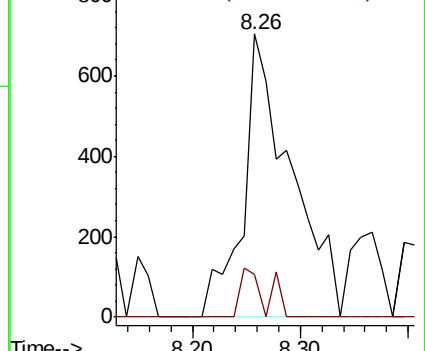
43 100

58 14.9 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.711 ug/l

RT: 9.48 min Scan# 897

Delta R.T. -0.05 min

Lab File: VF060924.D

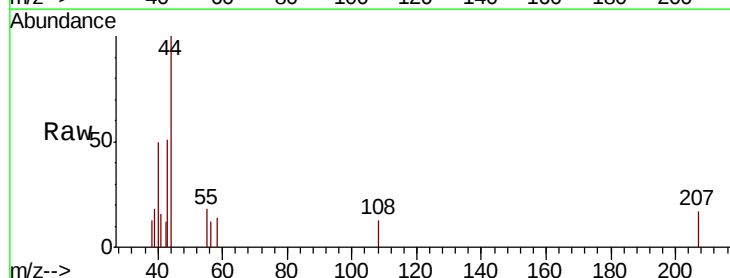
Acq: 6 Dec 2018 18:34

Tgt Ion: 43 Resp: 1738

Ion Ratio Lower Upper

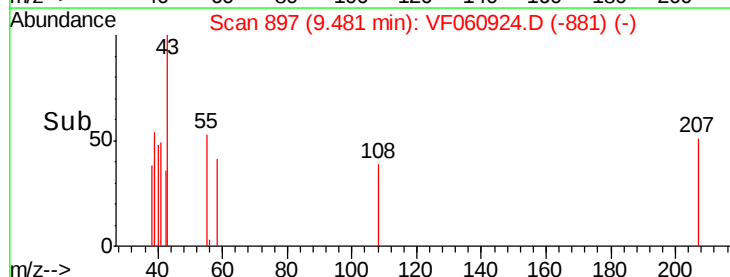
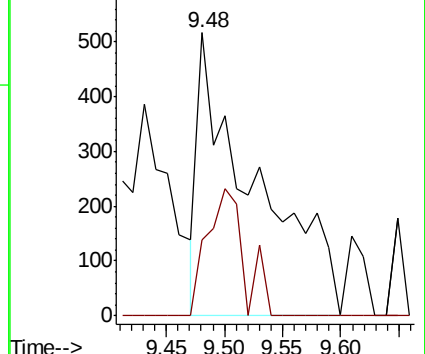
43 100

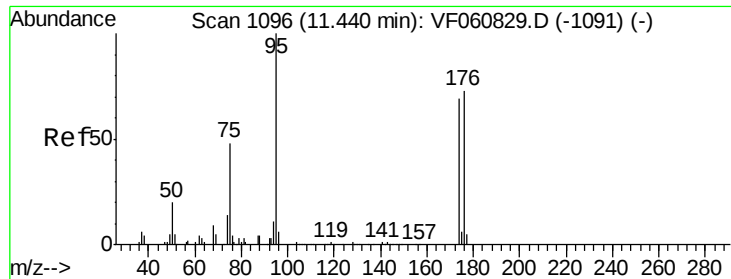
58 26.9 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 40.983 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

ClientSampleId :

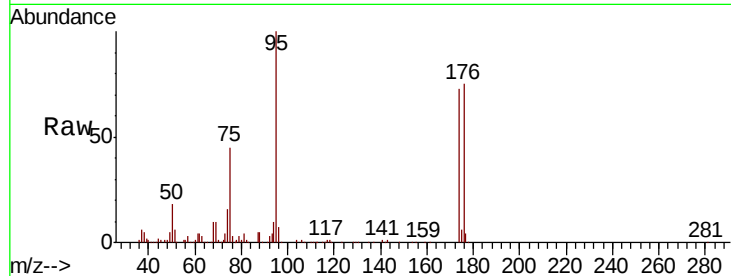
Tot Ion: 95 Resp: 151629

Ion Ratio Lower Upper

95 100

174 73.1 0.0 138.2

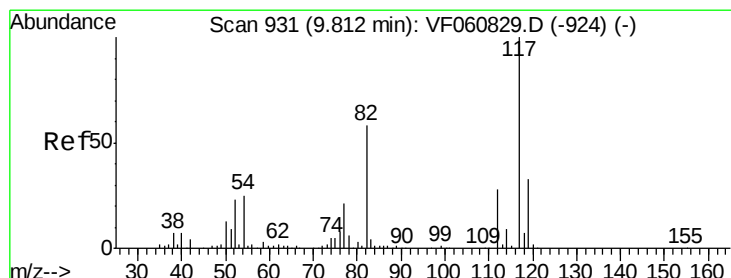
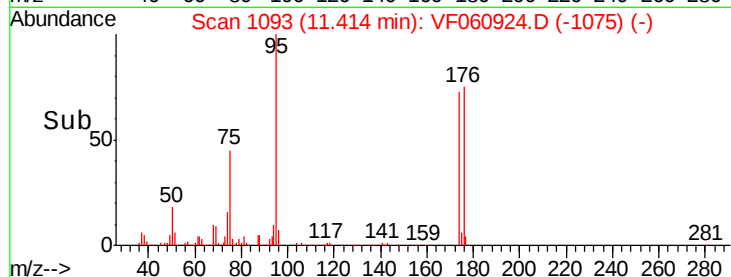
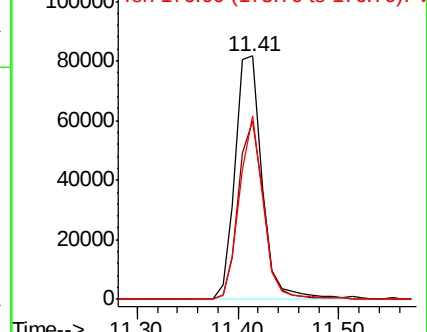
176 75.2 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF060924.D (-1091) (-)

Ion 174.00 (173.70 to 174.70): VF060924.D (-1091) (-)

Ion 176.00 (175.70 to 176.70): VF060924.D (-1091) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.78 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

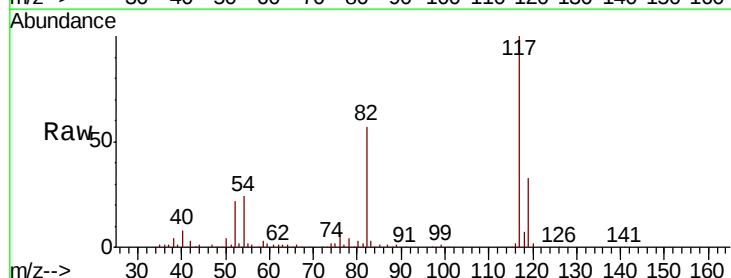
Tgt Ion: 117 Resp: 309933

Ion Ratio Lower Upper

117 100

82 56.5 46.6 69.8

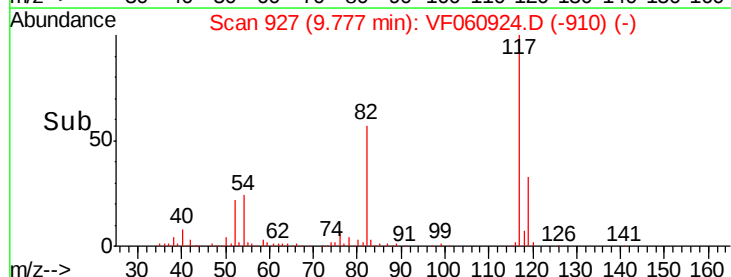
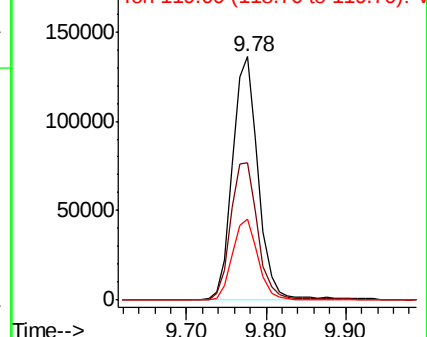
119 33.5 26.4 39.6

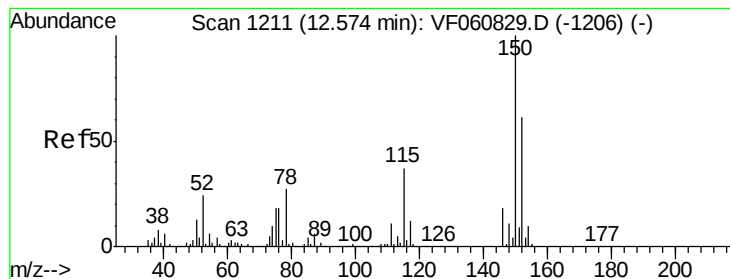


Abundance Ion 117.00 (116.70 to 117.70): VF060924.D (-910) (-)

Ion 82.00 (81.70 to 82.70): VF060924.D (-910) (-)

Ion 119.00 (118.70 to 119.70): VF060924.D (-910) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.55 min Scan# 1208

Delta R.T. -0.03 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

Instrument :

MSVOA_F

ClientSampleId :

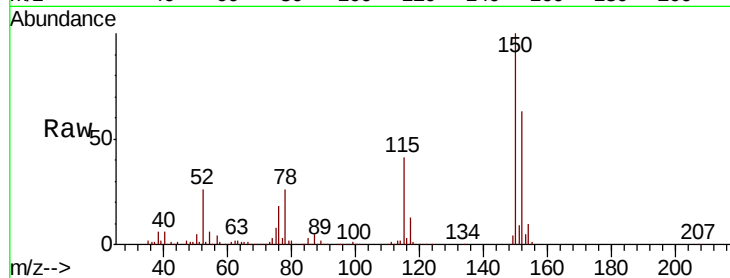
Tot Ion:152 Resp: 164024

Ion Ratio Lower Upper

152 100

115 64.5 30.1 90.5

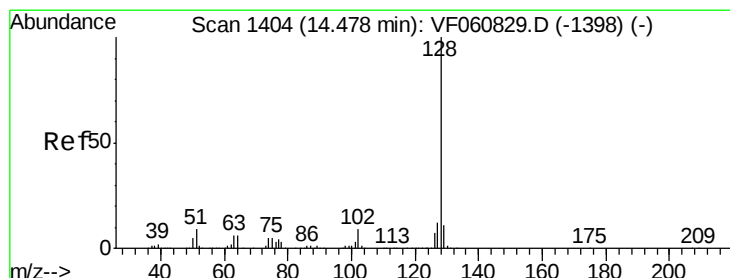
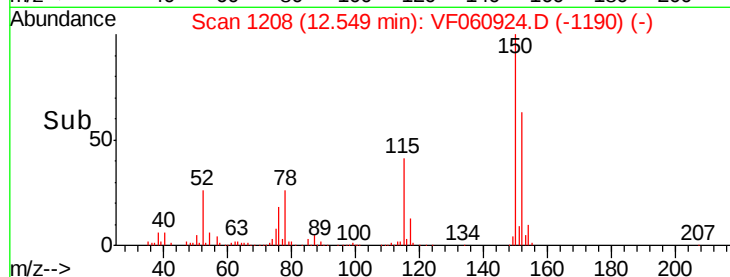
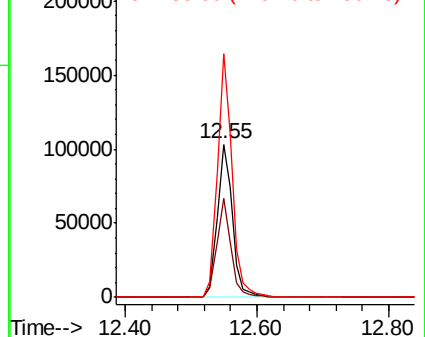
150 159.4 0.0 327.6



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: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF060924.D

Acq: 6 Dec 2018 18:34

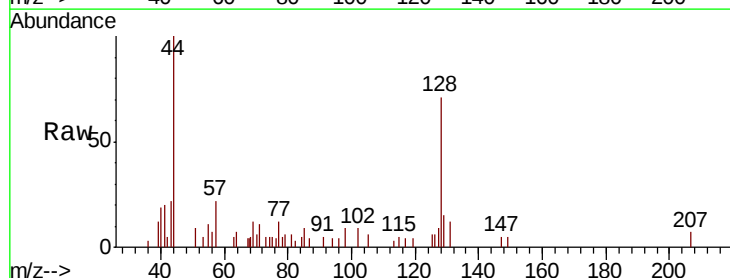
Tgt Ion:128 Resp: 3080

Ion Ratio Lower Upper

128 100

127 13.4 9.9 14.9

129 21.1 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

