

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121418\
 Data File : VF061015.D
 Acq On : 14 Dec 2018 12:44
 Operator : VA/AP
 Sample : VF1214SBL01
 Misc : 5.00g/5mL/MSVOA-F/SOIL
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 15 00:04:32 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

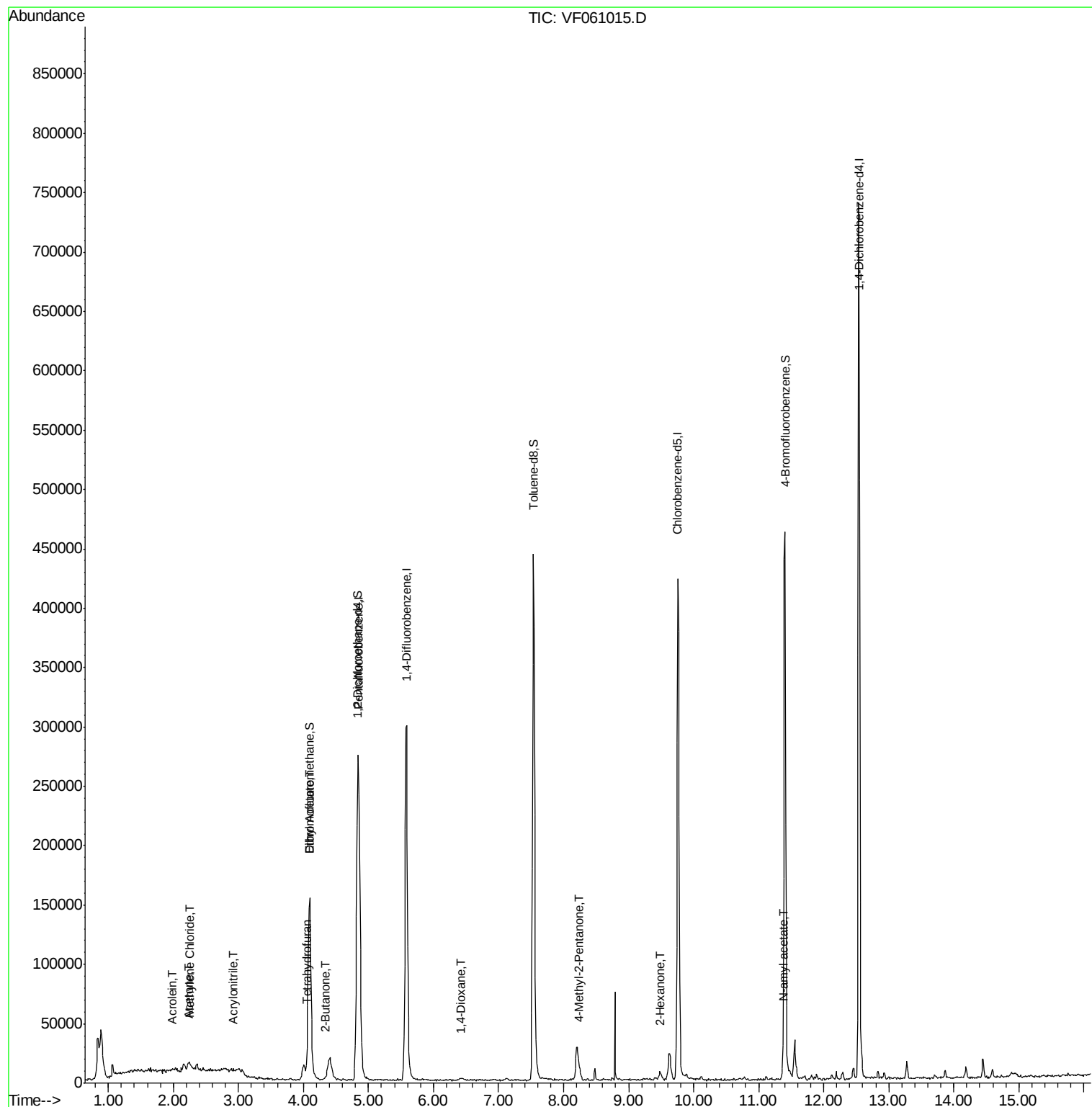
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.85	168	196719	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.58	114	329660	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.76	117	298536	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.54	152	176420	50.00	ug/l	-0.03
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.83	65	127347	54.95	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	109.90%	
35) Dibromofluoromethane	4.10	113	147805	56.52	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	113.04%	
50) Toluene-d8	7.54	98	370741	48.12	ug/l	-0.05
Spiked Amount 50.000			Recovery	=	96.24%	
62) 4-Bromofluorobenzene	11.40	95	184176	52.60	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	105.20%	
Target Compounds						
					Qvalue	
13) Acrolein	1.97	56	887	9.855	ug/l #	80
15) Acrylonitrile	2.93	53	891	4.184	ug/l #	33
16) Acetone	2.23	43	2404	5.625	ug/l	97
18) Methyl Acetate	2.33	43	845	Below Cal	#	82
20) Methylene Chloride	2.25	84	4788	3.054	ug/l	90
25) 2-Butanone	4.33	43	2125	2.875	ug/l #	57
29) Tetrahydrofuran	4.05	42	1892	6.039	ug/l #	62
37) Ethyl Acetate	4.10	43	1764	1.187	ug/l #	46
41) Methacrylonitrile	4.73	41	637	Below Cal	#	88
43) Isopropyl Acetate	6.95	43	774	Below Cal	#	49
49) 1,4-Dioxane	6.43	88	67	6.806	ug/l #	1
51) 4-Methyl-2-Pentanone	8.25	43	4878	3.560	ug/l	93
59) 2-Hexanone	9.48	43	7328	7.623	ug/l	97
74) N-amyl acetate	11.37	43	5583	1.734	ug/l #	84
95) Naphthalene	14.45	128	11032	Below Cal		97

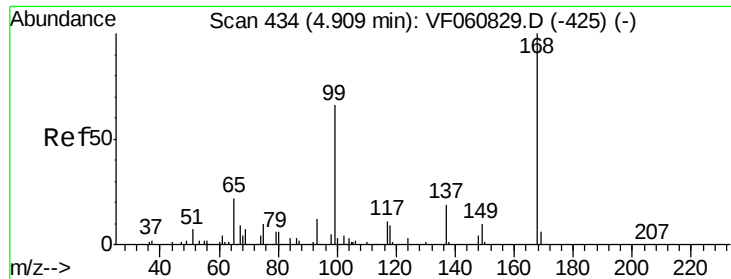
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_F
ClientSampleId :

Quant Time: Dec 15 00:04:32 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: 4.85 min Scan# 428

Delta R.T. -0.05 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

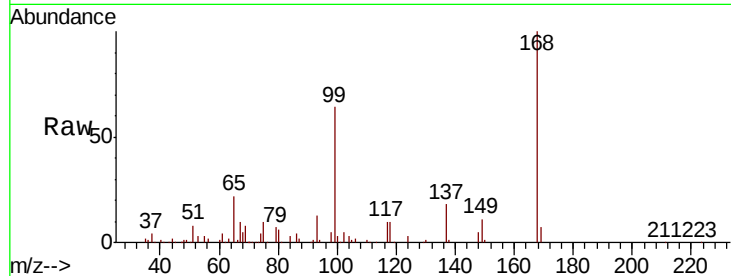
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:168 Resp: 196719

Ion Ratio Lower Upper

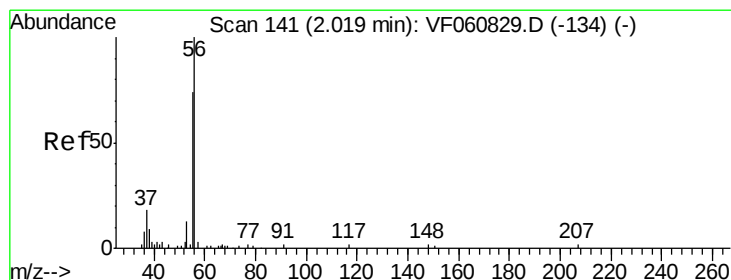
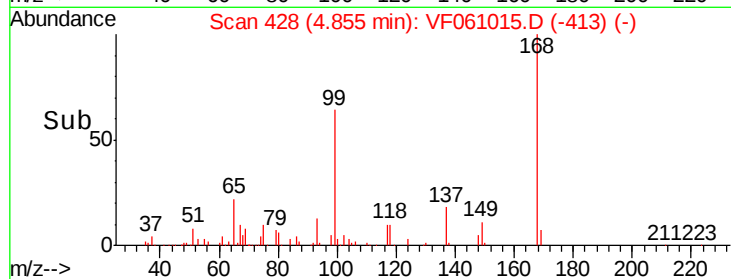
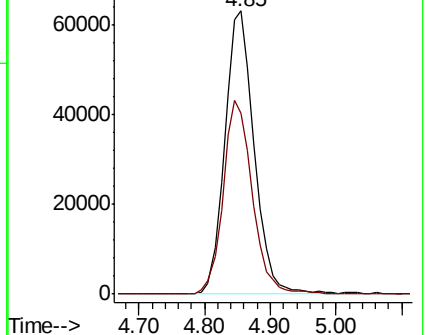
168 100

99 63.8 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0



#13

Acrolein

Concen: 9.855 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.04 min

Lab File: VF061015.D

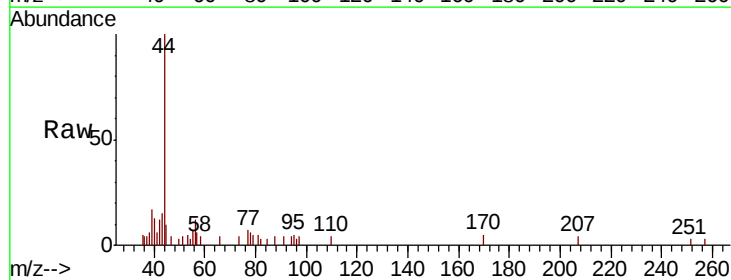
Acq: 14 Dec 2018 12:44

Tgt Ion: 56 Resp: 887

Ion Ratio Lower Upper

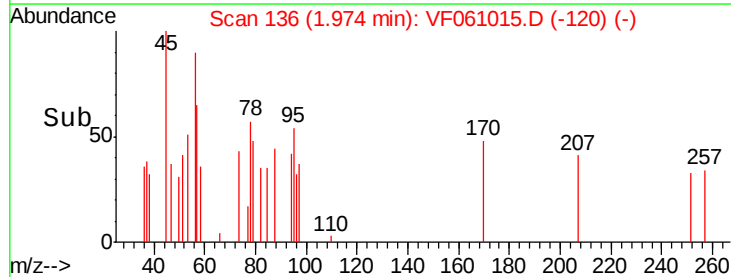
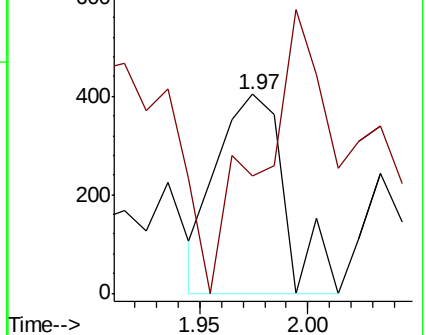
56 100

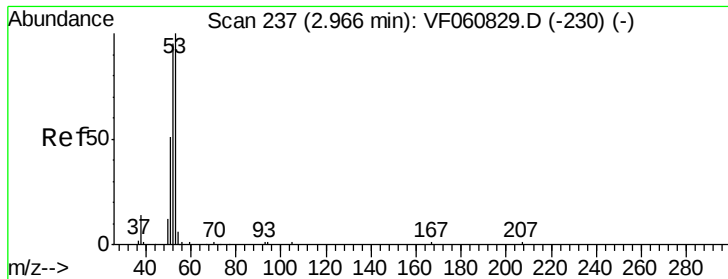
55 58.9 61.2 91.8#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#15

Acrylonitrile

Concen: 4.184 ug/l

RT: 2.93 min Scan# 233

Delta R.T. -0.03 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

Instrument :

MSVOA_F

ClientSampleId :

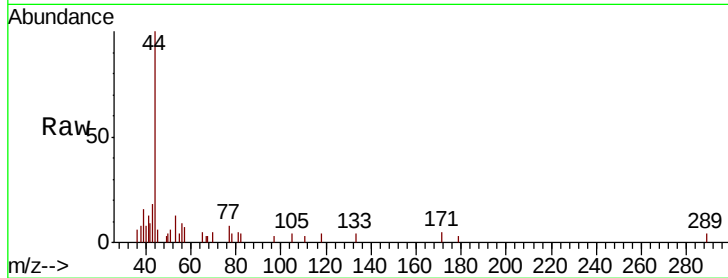
Tot Ion: 53 Resp: 891

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

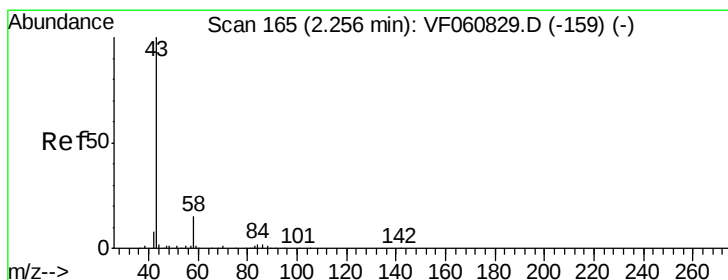
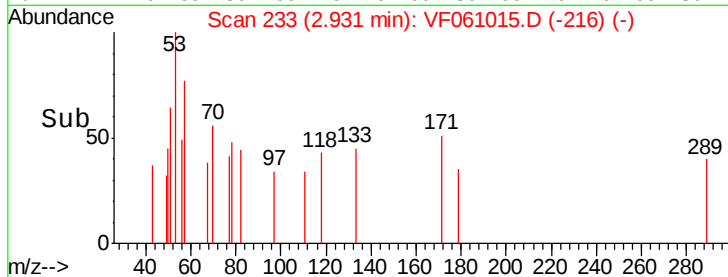
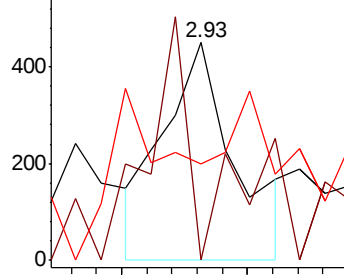
51 44.5 40.7 61.1



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: 5.625 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.02 min

Lab File: VF061015.D

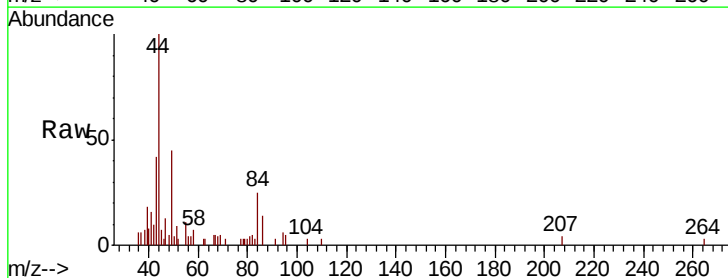
Acq: 14 Dec 2018 12:44

Tgt Ion: 43 Resp: 2404

Ion Ratio Lower Upper

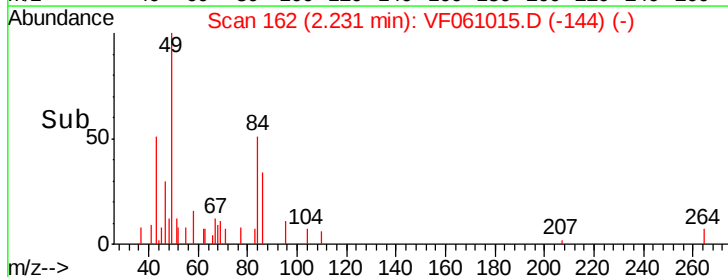
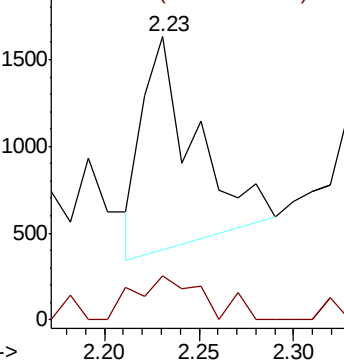
43 100

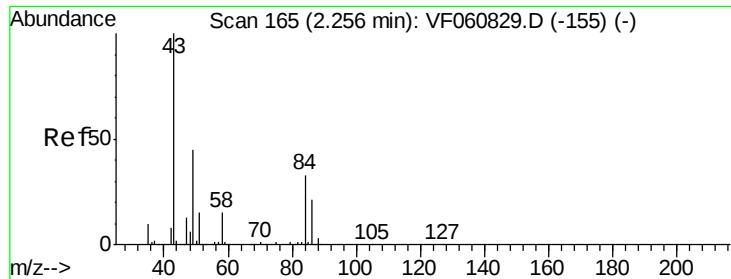
58 15.7 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

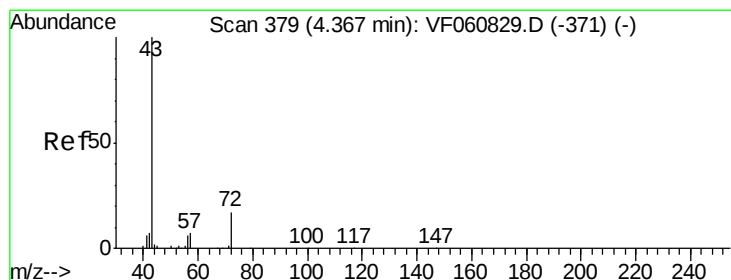
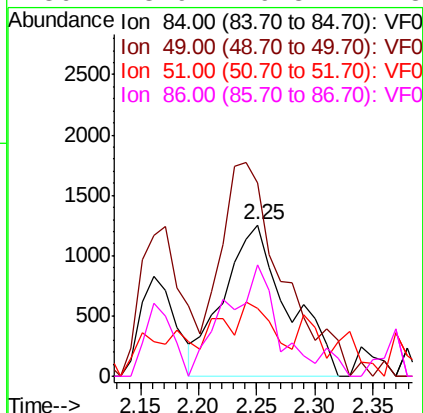
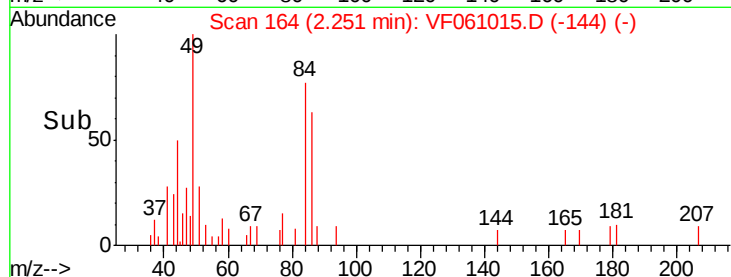
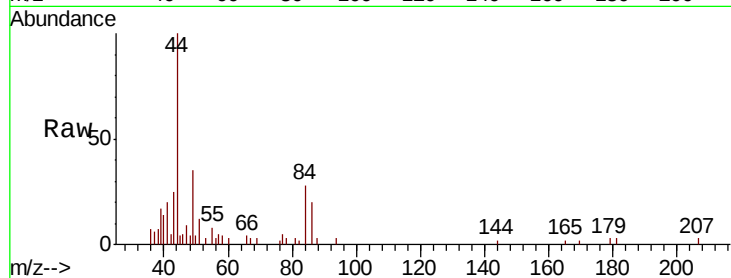




#20
Methvlene Chloride
Concen: 3.054 ug/l
RT: 2.25 min Scan# 164
Delta R.T. -0.01 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

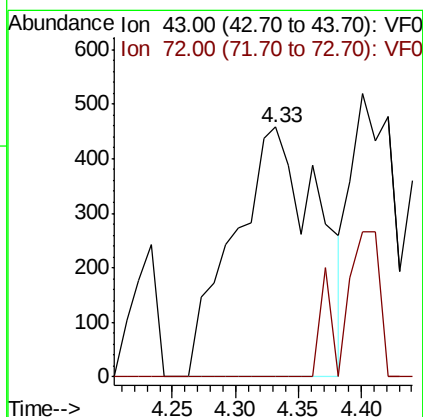
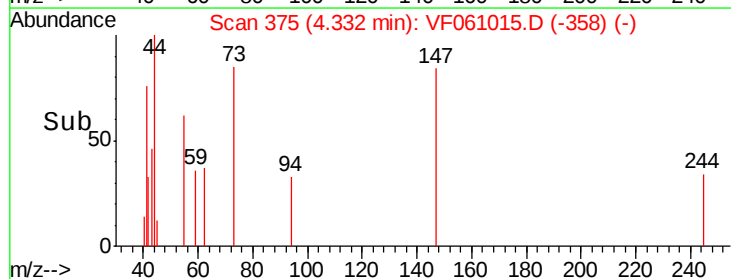
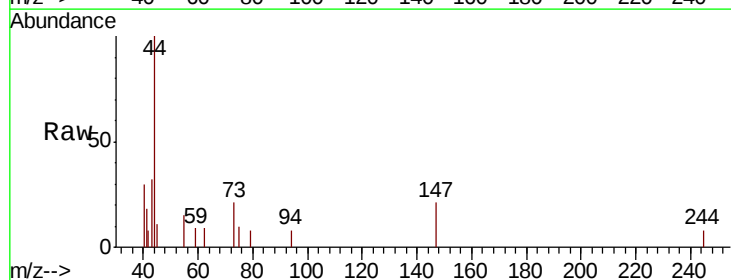
Instrument :
MSVOA_F
ClientSampled :

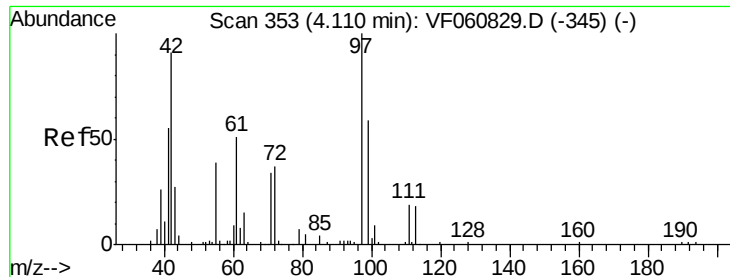
Tot Ion: 84 Resp: 4788
Ion Ratio Lower Upper
84 100
49 127.5 111.3 166.9
51 45.0 38.0 57.0
86 73.9 49.8 74.8



#25
2-Butanone
Concen: 2.875 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.03 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

Tgt Ion: 43 Resp: 2125
Ion Ratio Lower Upper
43 100
72 0.0 15.4 23.2#





#29

Tetrahydrofuran

Concen: 6.039 ug/l

RT: 4.05 min Scan# 346

Delta R.T. -0.06 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

Instrument :

MSVOA_F

ClientSampleId :

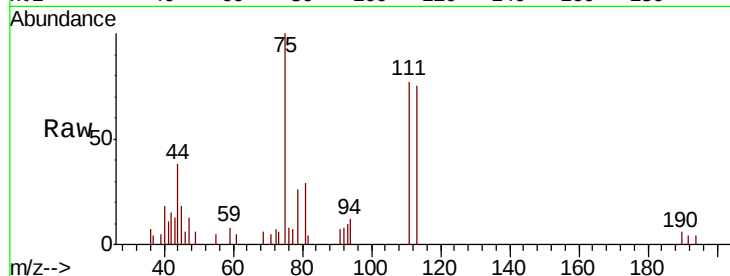
Tot Ion: 42 Resp: 1892

Ion Ratio Lower Upper

42 100

72 29.3 31.9 47.9#

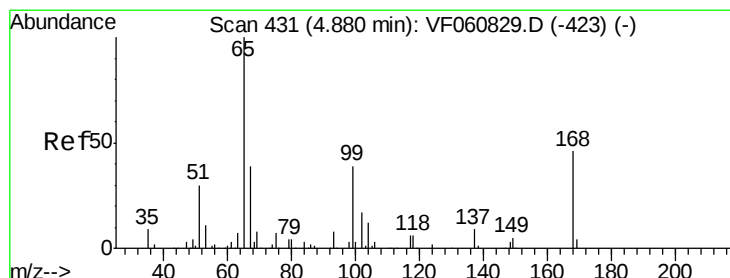
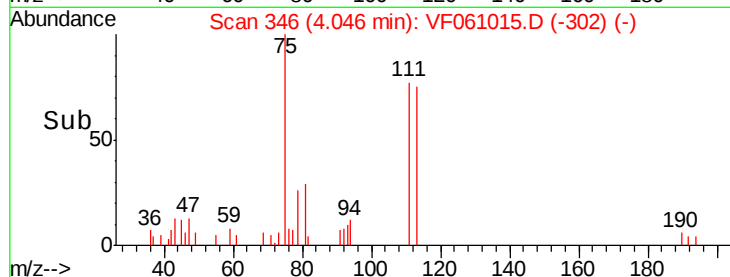
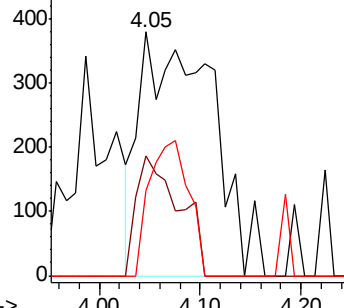
71 0.0 28.7 43.1#



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: 54.952 ug/l

RT: 4.83 min Scan# 425

Delta R.T. -0.05 min

Lab File: VF061015.D

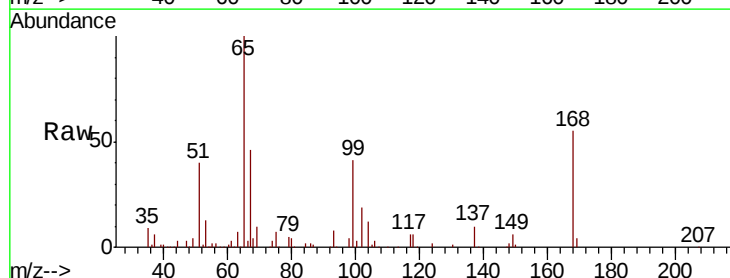
Acq: 14 Dec 2018 12:44

Tgt Ion: 65 Resp: 127347

Ion Ratio Lower Upper

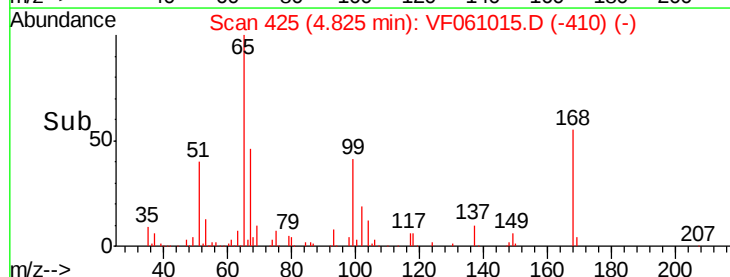
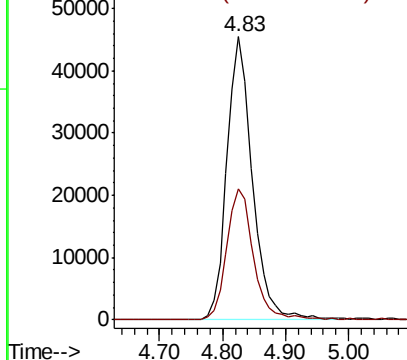
65 100

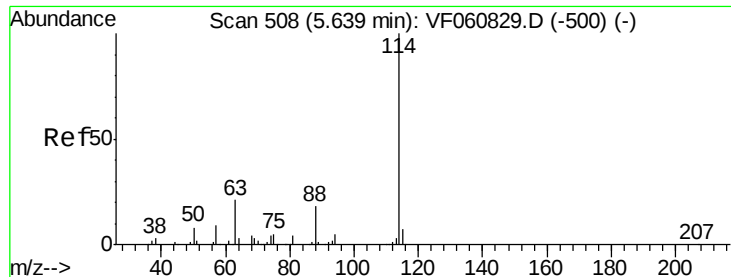
67 46.4 0.0 96.4



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: 5.58 min Scan# 502

Delta R.T. -0.05 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

Instrument :

MSVOA_F

ClientSampleId :

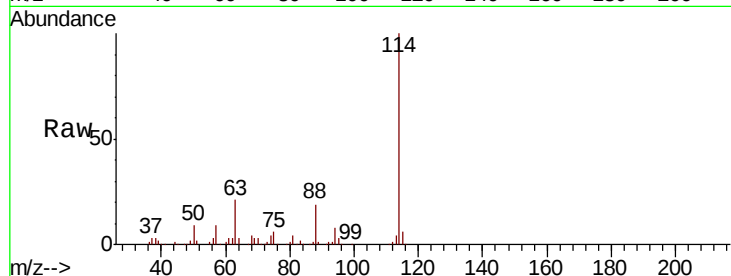
Tot Ion:114 Resp: 329660

Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.6

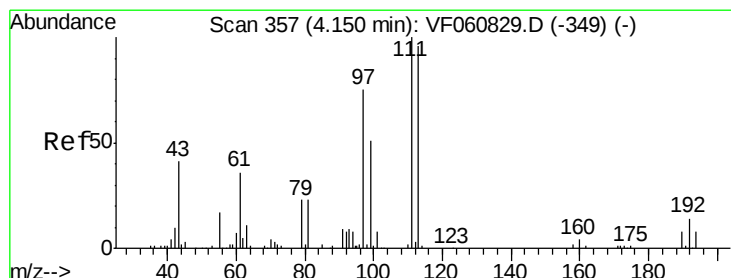
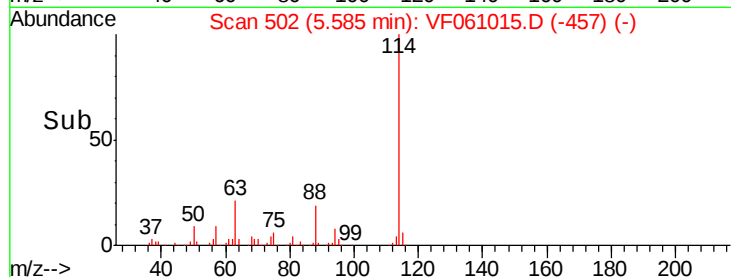
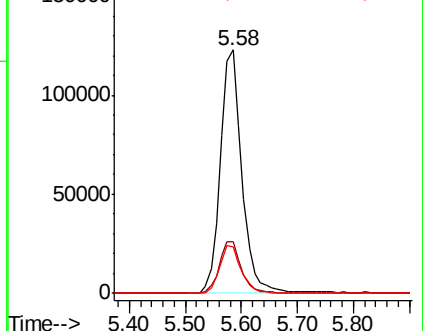
88 19.3 0.0 36.6



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: 56.516 ug/l

RT: 4.10 min Scan# 351

Delta R.T. -0.05 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

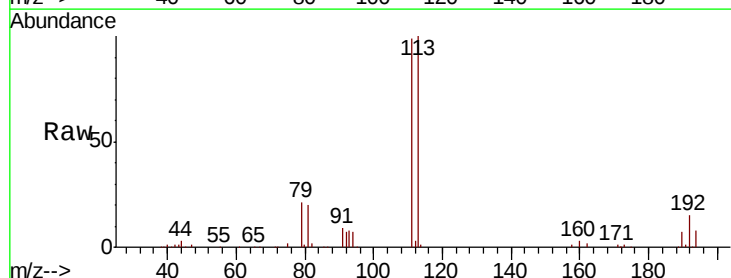
Tgt Ion:113 Resp: 147805

Ion Ratio Lower Upper

113 100

111 99.3 83.0 124.6

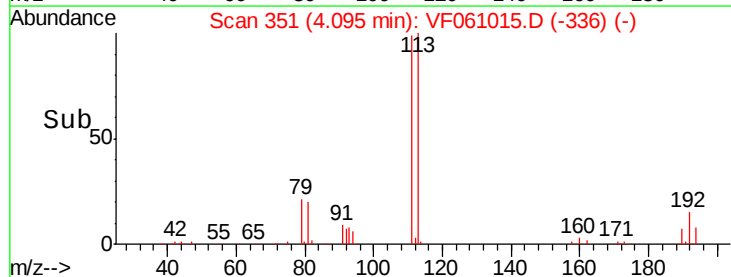
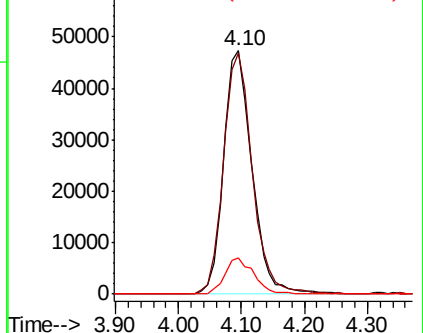
192 15.2 12.3 18.5

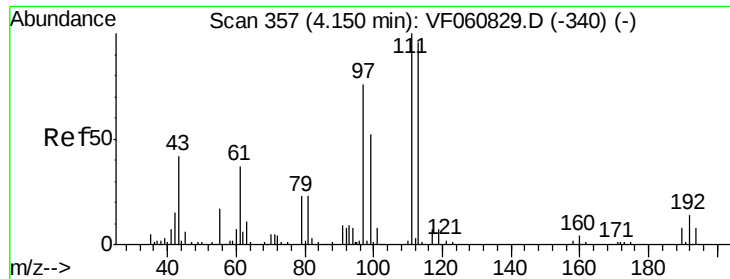


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

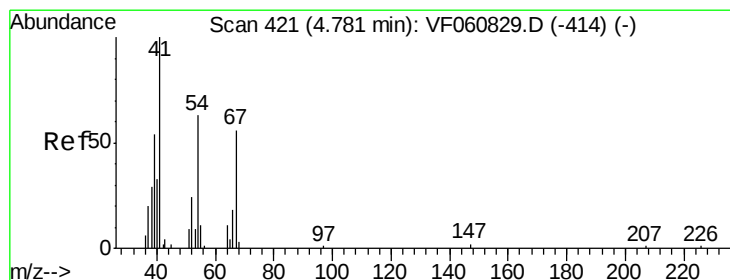
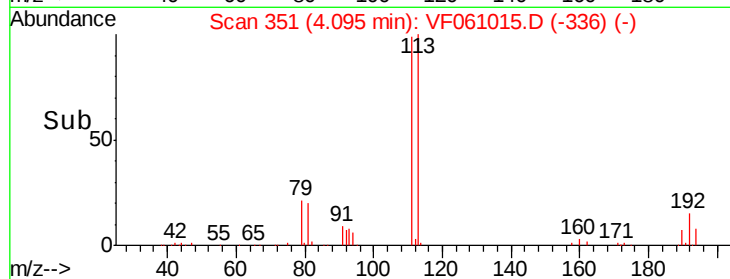
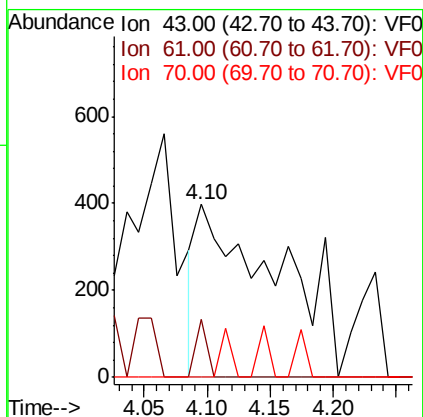
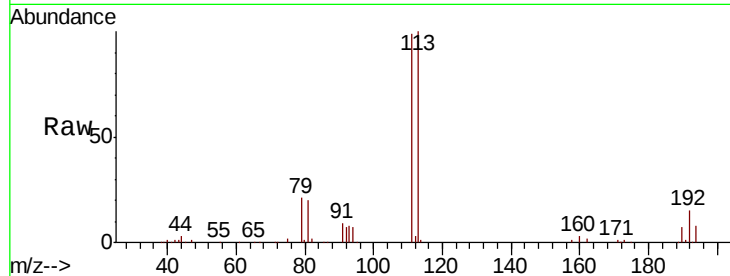




#37
Ethyl Acetate
Concen: 1.187 ug/l
RT: 4.10 min Scan# 351
Delta R.T. -0.05 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

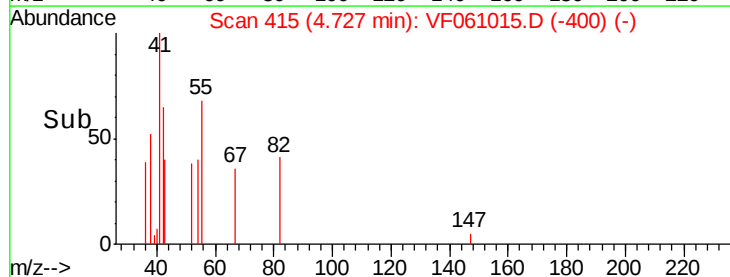
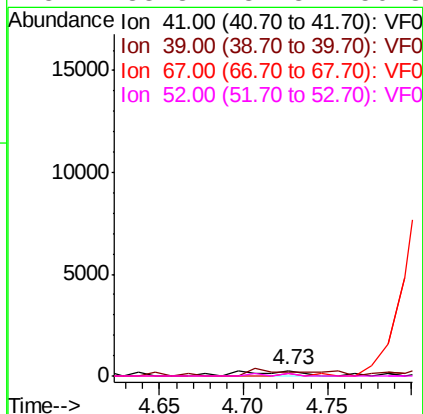
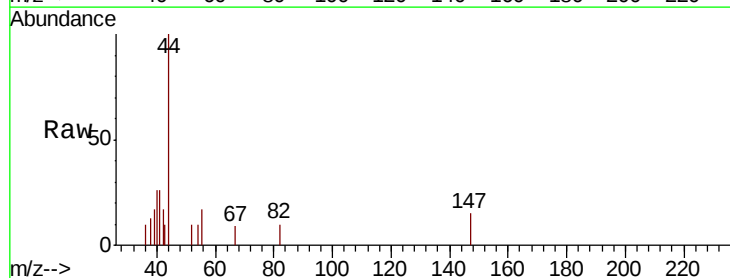
Instrument :
MSVOA_F
ClientSampleId :

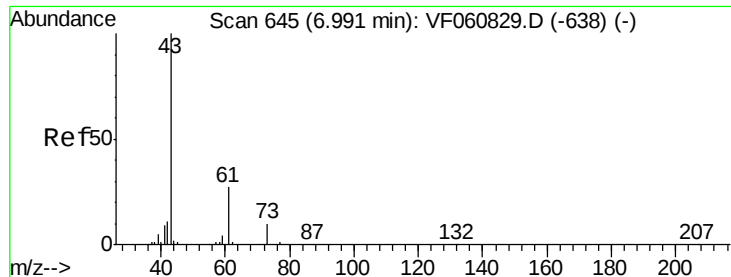
Tot Ion: 43 Resp: 1764
Ion Ratio Lower Upper
43 100
61 33.7 68.6 103.0#
70 0.0 9.0 13.4#



#41
Methacrylonitrile
Concen: Below Cal
RT: 4.73 min Scan# 415
Delta R.T. -0.05 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

Tgt Ion: 41 Resp: 637
Ion Ratio Lower Upper
41 100
39 65.3 53.0 79.6
67 36.5 43.8 65.6#
52 38.3 37.8 56.8



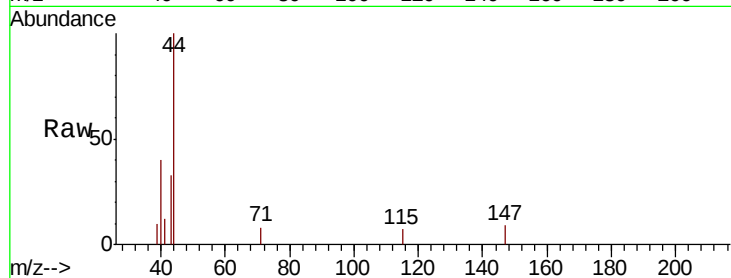


#43

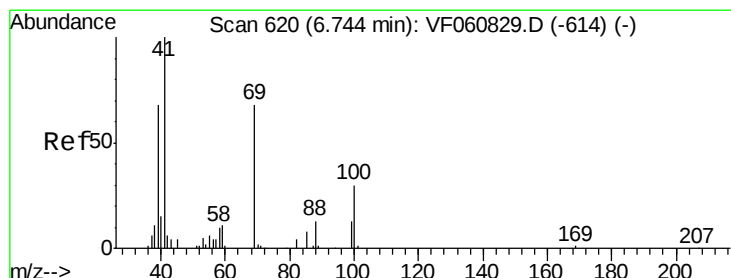
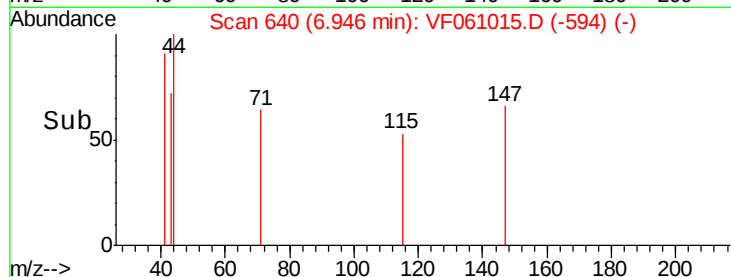
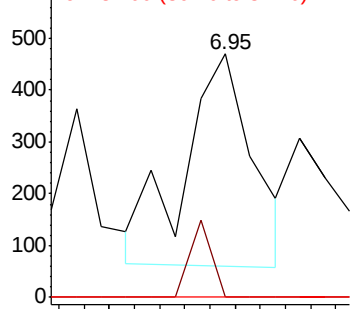
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.95 min Scan# 640
 Delta R.T. -0.04 min
 Lab File: VF061015.D
 Acq: 14 Dec 2018 12:44

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion: 43 Resp: 774
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



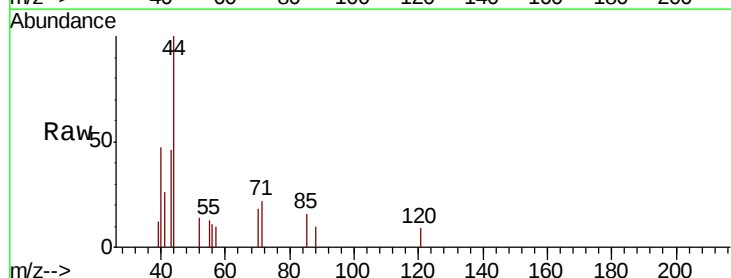
Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0
 Ion 87.00 (86.70 to 87.70): VF0



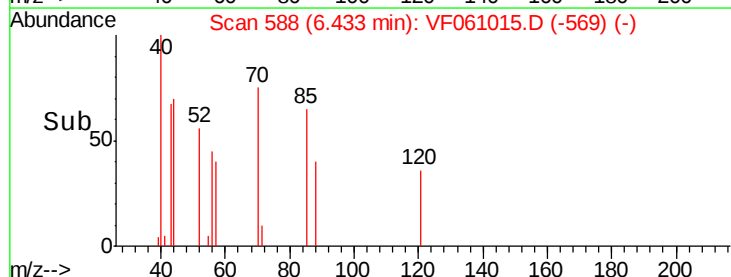
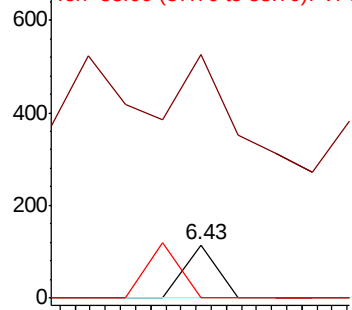
#49

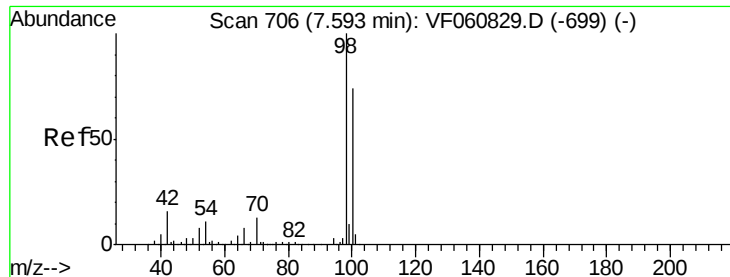
1,4-Dioxane
 Concen: 6.806 ug/l
 RT: 6.43 min Scan# 588
 Delta R.T. -0.31 min
 Lab File: VF061015.D
 Acq: 14 Dec 2018 12:44

Tgt Ion: 88 Resp: 67
 Ion Ratio Lower Upper
 88 100
 43 461.4 42.0 63.0#
 58 0.0 61.8 92.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0
 Ion 43.00 (42.70 to 43.70): VF0
 Ion 58.00 (57.70 to 58.70): VF0





#50

Toluene-d8

Concen: 48.124 ug/l

RT: 7.54 min Scan# 700

Delta R.T. -0.05 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

Instrument :

MSVOA_F

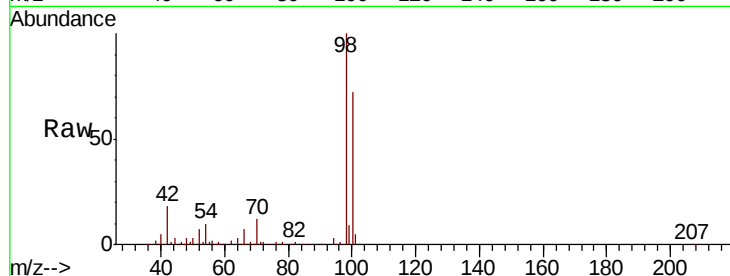
ClientSampleId :

Tot Ion: 98 Resp: 370741

Ion Ratio Lower Upper

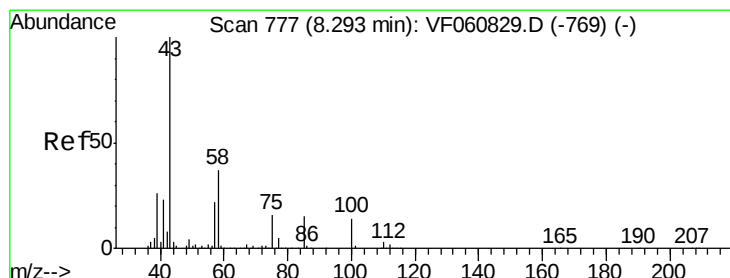
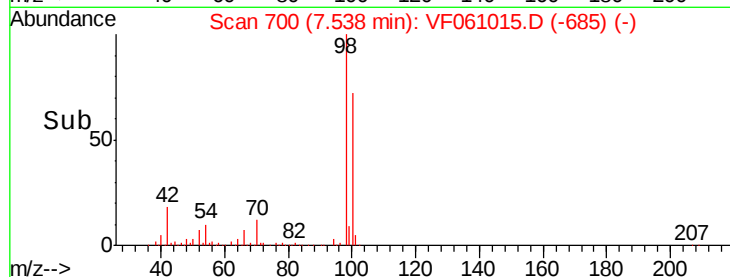
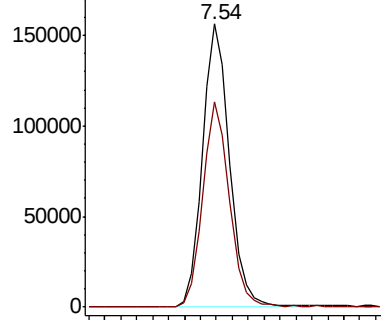
98 100

100 72.5 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF



#51

4-Methyl-2-Pentanone

Concen: 3.560 ug/l

RT: 8.25 min Scan# 772

Delta R.T. -0.04 min

Lab File: VF061015.D

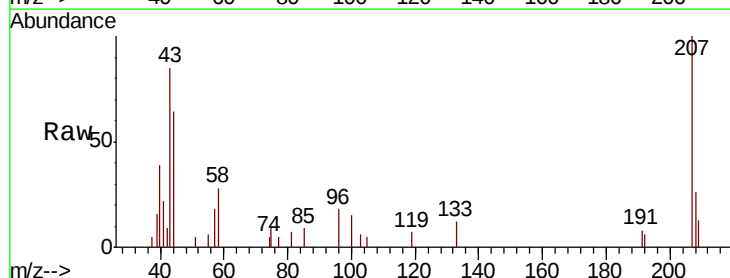
Acq: 14 Dec 2018 12:44

Tgt Ion: 43 Resp: 4878

Ion Ratio Lower Upper

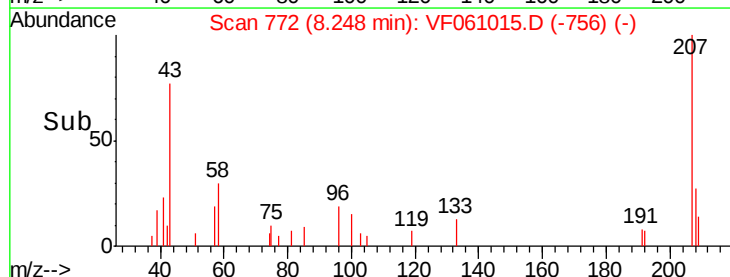
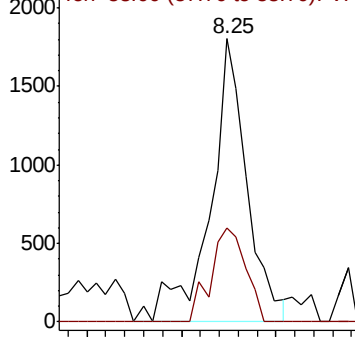
43 100

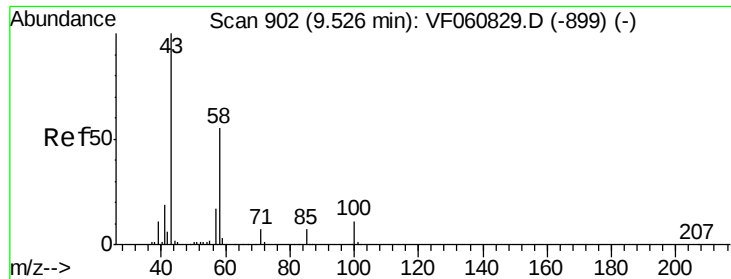
58 33.0 29.7 44.5



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

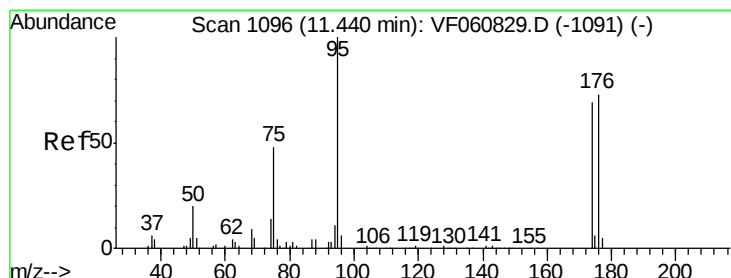
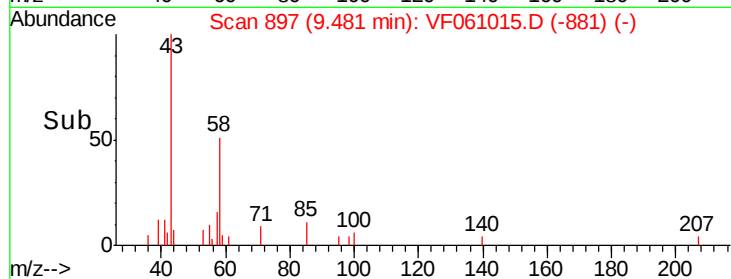
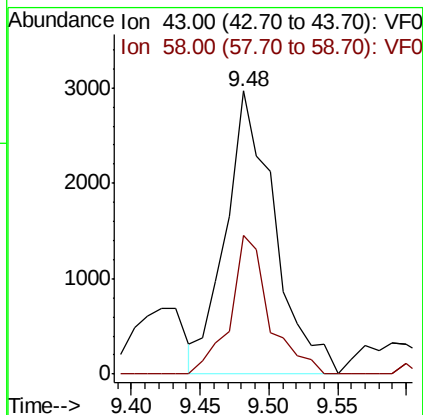
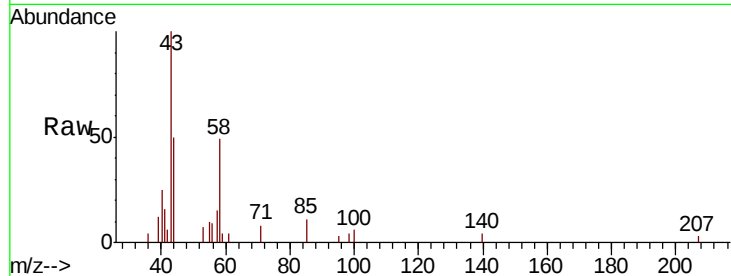




#59
2-Hexanone
Concen: 7.623 ug/l
RT: 9.48 min Scan# 897
Delta R.T. -0.04 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

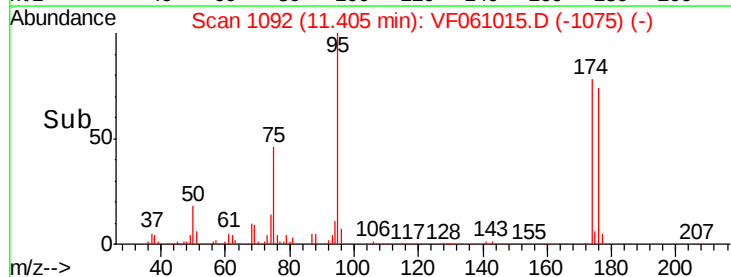
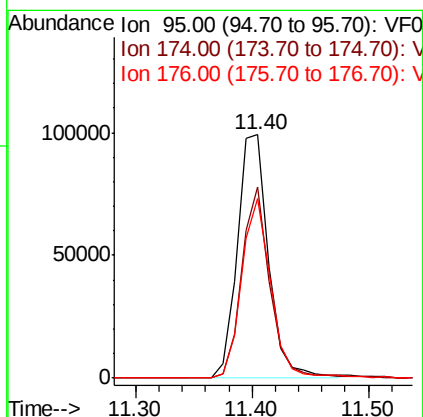
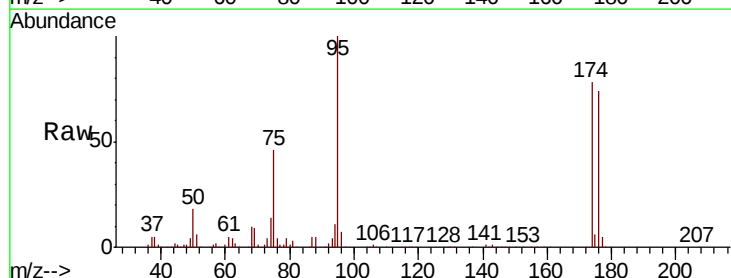
Instrument :
MSVOA_F
ClientSampleId :

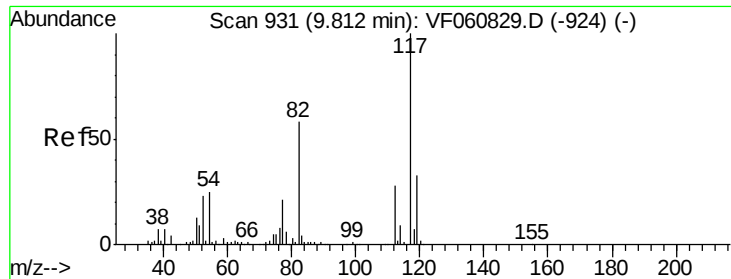
Tot Ion: 43 Resp: 7328
Ion Ratio Lower Upper
43 100
58 49.0 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 52.603 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.03 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

Tgt Ion: 95 Resp: 184176
Ion Ratio Lower Upper
95 100
174 78.3 0.0 138.2
176 73.6 0.0 146.2

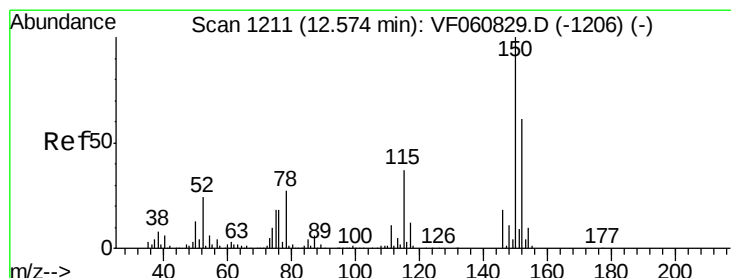
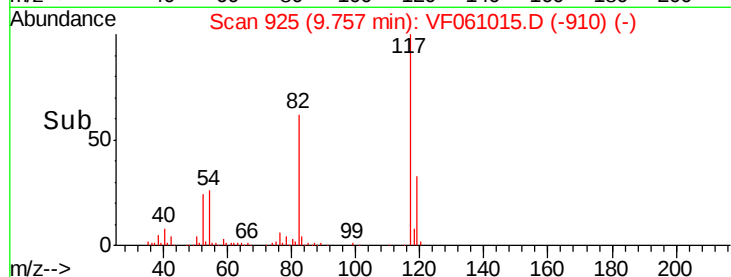
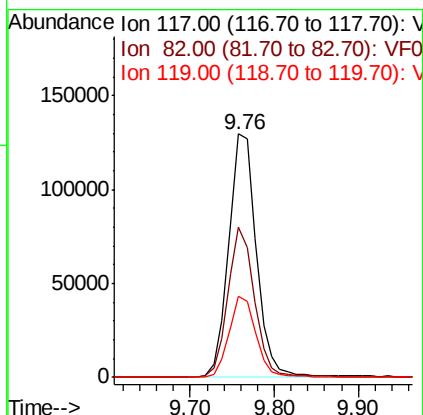
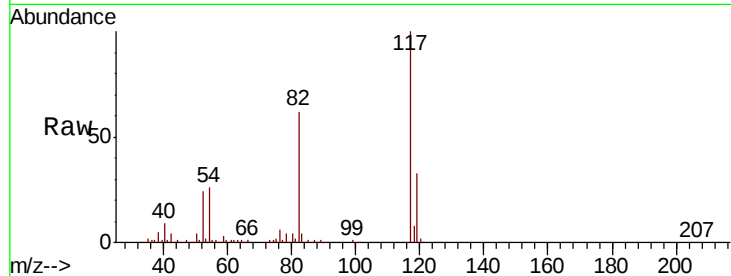




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.76 min Scan# 925
Delta R.T. -0.05 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

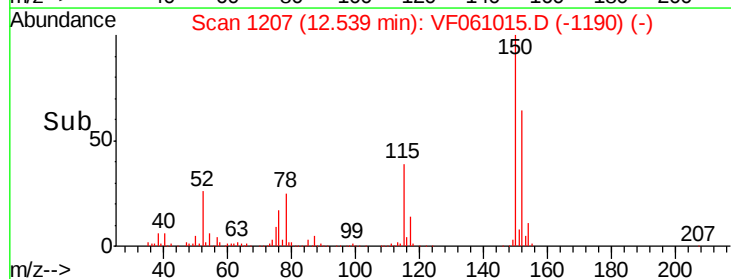
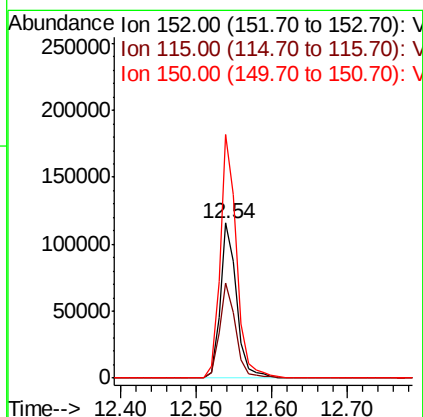
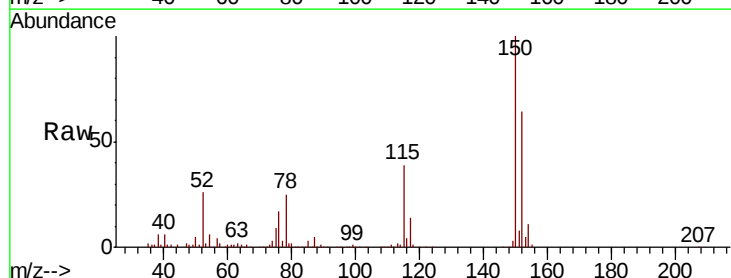
Instrument :
MSVOA_F
ClientSampleId :

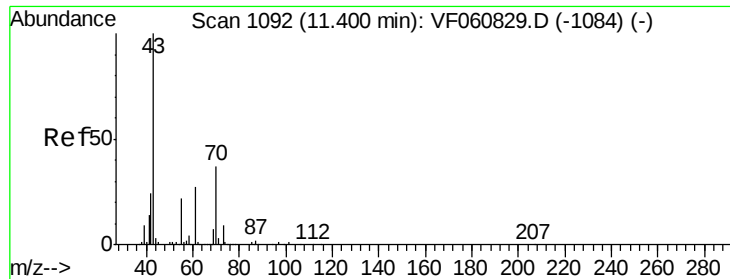
Tot Ion	Ratio	Lower	Upper
117	100		
82	61.7	46.6	69.8
119	33.4	26.4	39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.54 min Scan# 1207
Delta R.T. -0.03 min
Lab File: VF061015.D
Acq: 14 Dec 2018 12:44

Tgt Ion	Ratio	Lower	Upper
152	100		
115	61.3	30.1	90.5
150	156.8	0.0	327.6





#74

N-amvl acetate

Concen: 1.734 ug/l

RT: 11.37 min Scan# 1088

Delta R.T. -0.03 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

Instrument :

MSVOA_F

ClientSampleId :

Tot Ion: 43 Resp: 5583

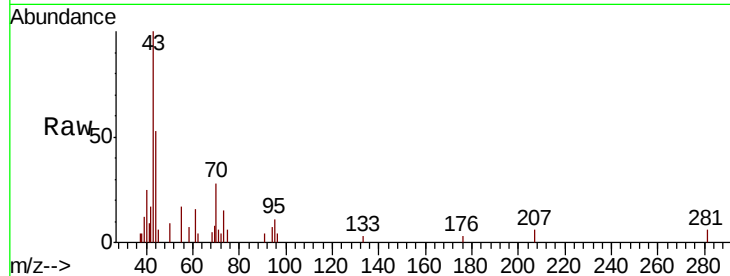
Ion Ratio Lower Upper

43 100

70 28.3 29.6 44.4#

55 16.5 17.2 25.8#

61 16.3 21.8 32.6#

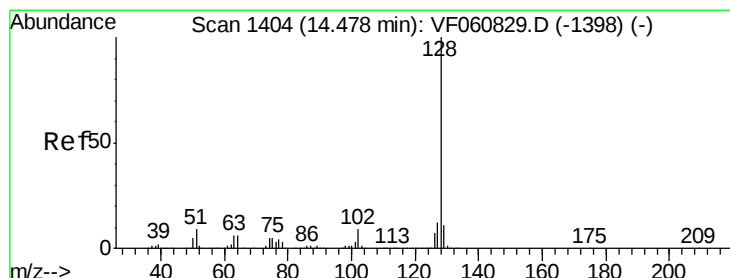
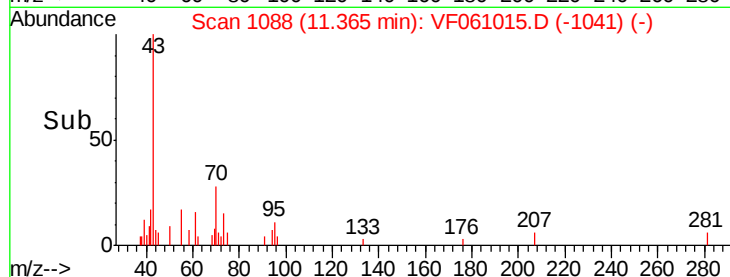
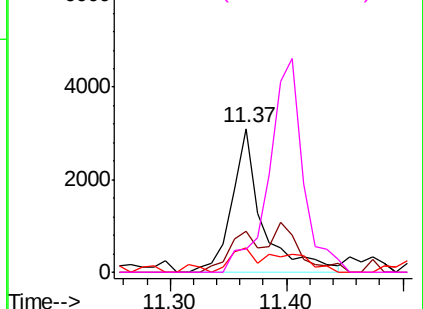


Abundance Ion 43.00 (42.70 to 43.70): VF0

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



#95

Naphthalene

Concen: Below Cal

RT: 14.45 min Scan# 1401

Delta R.T. -0.02 min

Lab File: VF061015.D

Acq: 14 Dec 2018 12:44

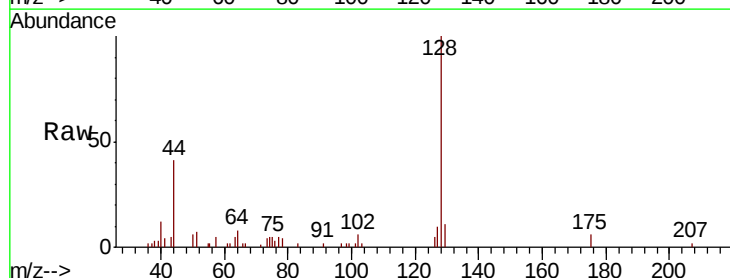
Tgt Ion:128 Resp: 11032

Ion Ratio Lower Upper

128 100

127 10.4 9.9 14.9

129 11.3 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

