

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF112018\
 Data File : VF060809.D
 Acq On : 20 Nov 2018 18:12
 Operator : VA/AP
 Sample : J5775-01
 Misc : 5.35g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Nov 21 02:49:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F111318S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 14 03:11:14 2018
 Response via : Initial Calibration

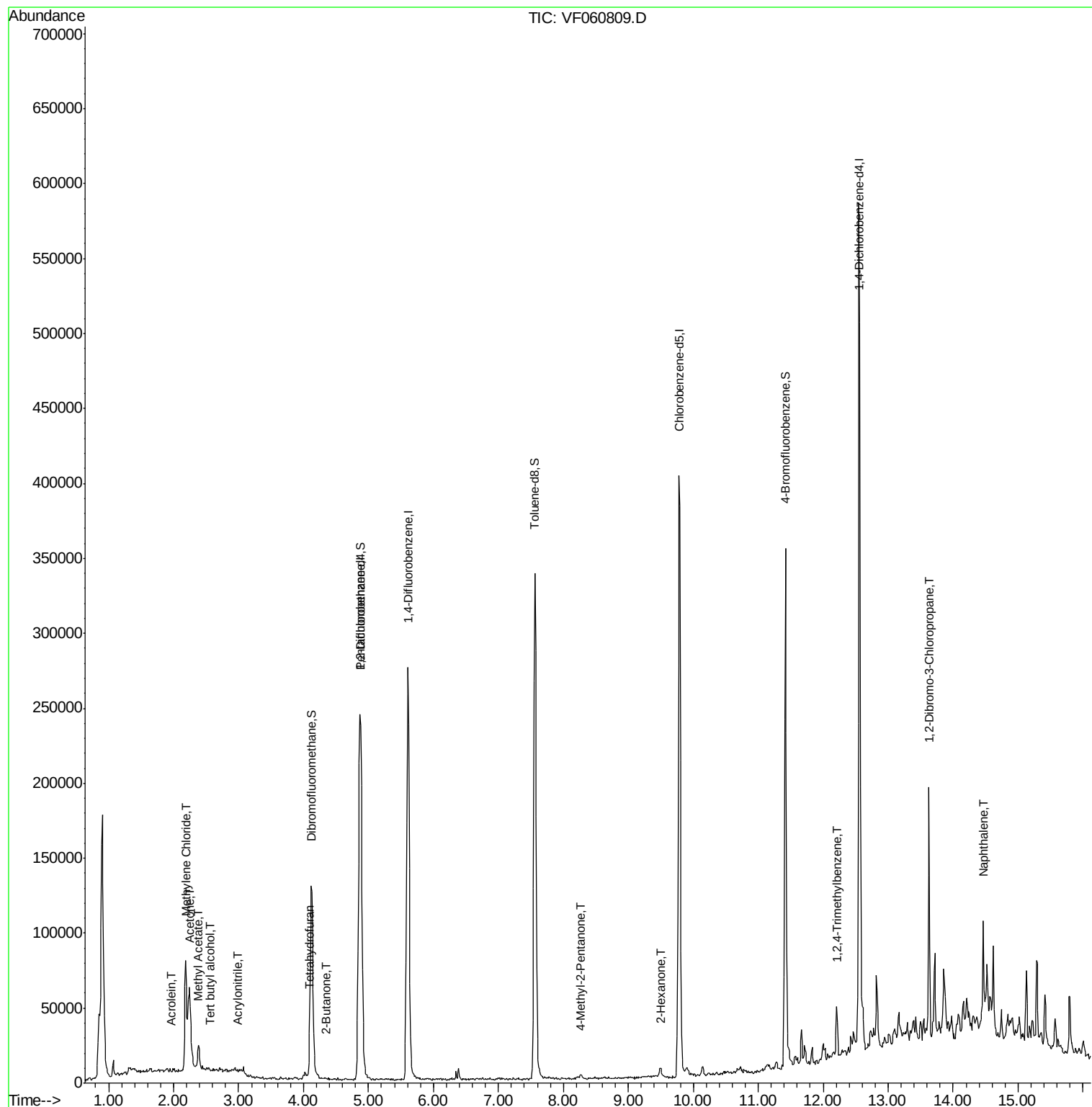
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.88	168	185283	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	5.61	114	323321	50.00	ug/l	-0.01
63) Chlorobenzene-d5	9.78	117	299563	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	12.55	152	146430	50.00	ug/l	-0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.86	65	100217	47.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.84%	
35) Dibromofluoromethane	4.12	113	125681	51.71	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	103.42%	
50) Toluene-d8	7.56	98	288949	46.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.08%	
62) 4-Bromofluorobenzene	11.42	95	133876	46.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.48%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.57	59	304	3.161	ug/l #	67
13) Acrolein	1.97	56	247	2.809	ug/l #	28
15) Acrylonitrile	2.98	53	884	4.313	ug/l #	33
16) Acetone	2.24	43	16510	36.549	ug/l	99
18) Methyl Acetate	2.38	43	8211	11.070	ug/l #	64
20) Methylene Chloride	2.19	84	33271	20.472	ug/l	96
25) 2-Butanone	4.36	43	1312	1.766	ug/l #	78
29) Tetrahydrofuran	4.08	42	366	1.194	ug/l #	36
41) Methacrylonitrile	4.75	41	750	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.27	43	3060	2.289	ug/l	91
59) 2-Hexanone	9.50	43	5124	5.454	ug/l	97
84) 1,2,4-Trimethylbenzene	12.21	105	13629	1.408	ug/l	92
92) 1,2-Dibromo-3-Chloropropan	13.63	75	5951	16.248	ug/l #	7
95) Naphthalene	14.47	128	29412	4.878	ug/l	99

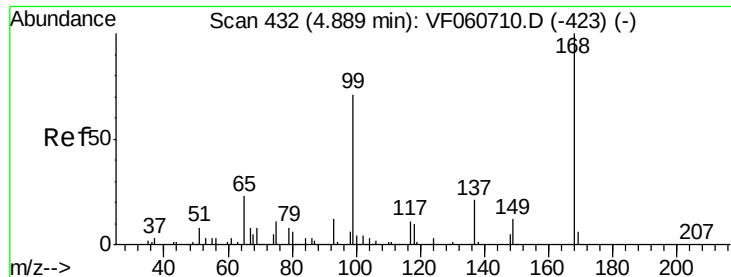
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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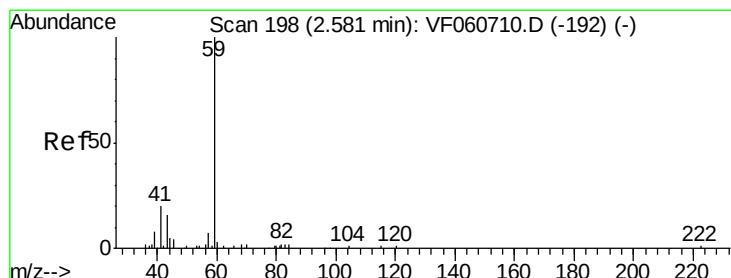
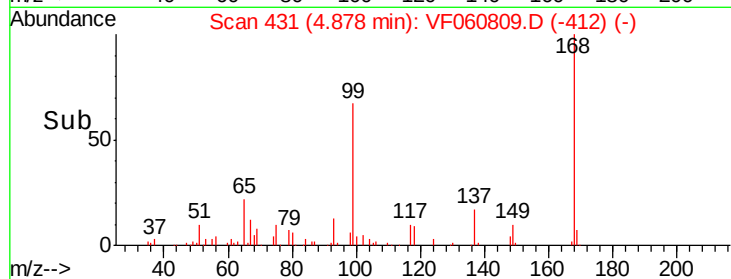
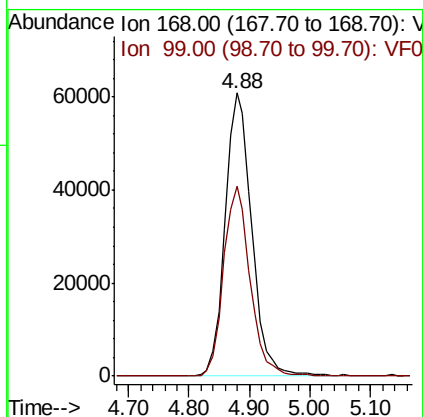
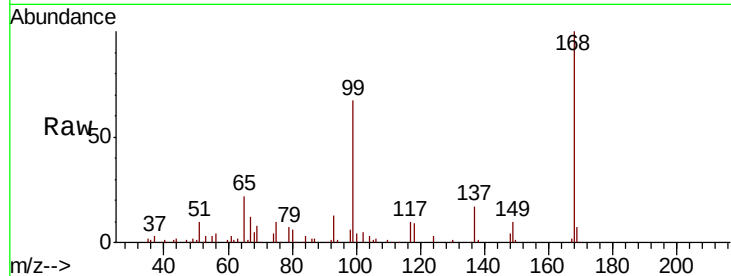




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.88 min Scan# 431
Delta R.T. -0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

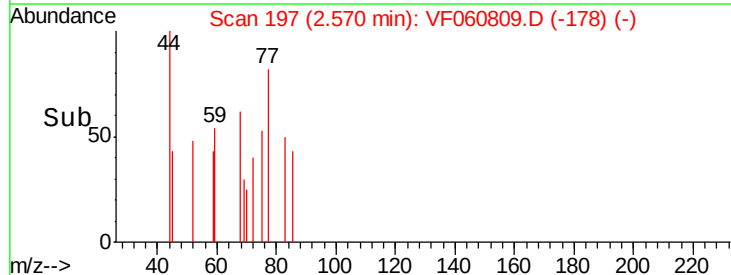
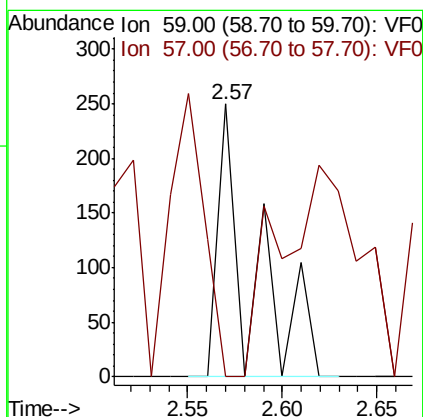
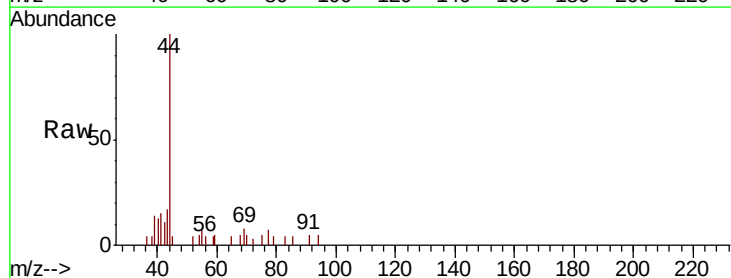
Instrument :
MSVOA_F
ClientSampleId :

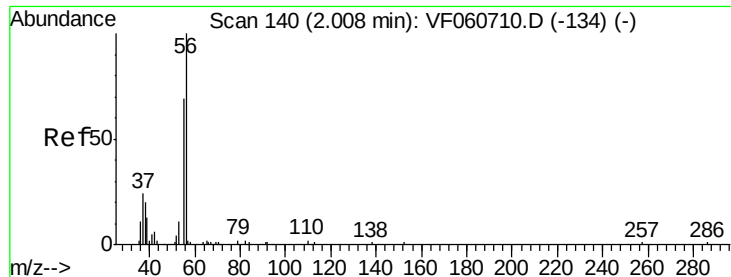
Tot Ion:168 Resp: 185283
Ion Ratio Lower Upper
168 100
99 67.1 57.2 85.8



#11
Tert butyl alcohol
Concen: 3.161 ug/l
RT: 2.57 min Scan# 197
Delta R.T. -0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

Tgt Ion: 59 Resp: 304
Ion Ratio Lower Upper
59 100
57 0.0 10.5 15.7#





#13

Acrolein

Concen: 2.809 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.04 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_F

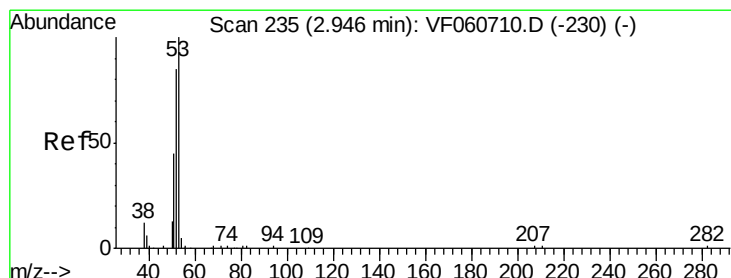
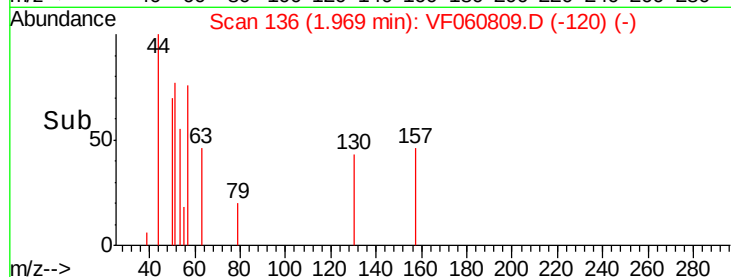
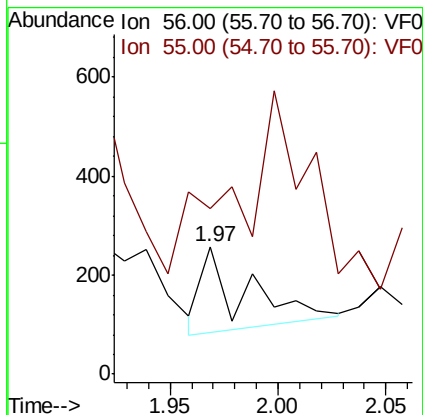
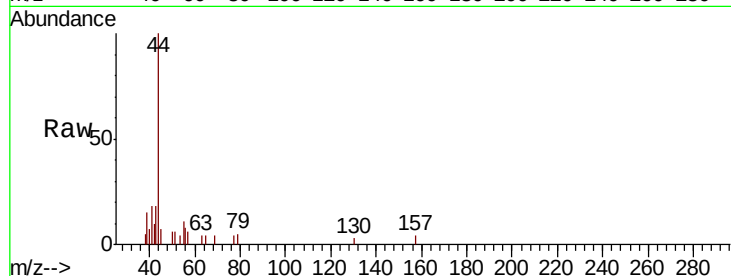
ClientSampleId :

Tot Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 130.4 56.6 85.0#



#15

Acrylonitrile

Concen: 4.313 ug/l

RT: 2.98 min Scan# 239

Delta R.T. 0.04 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

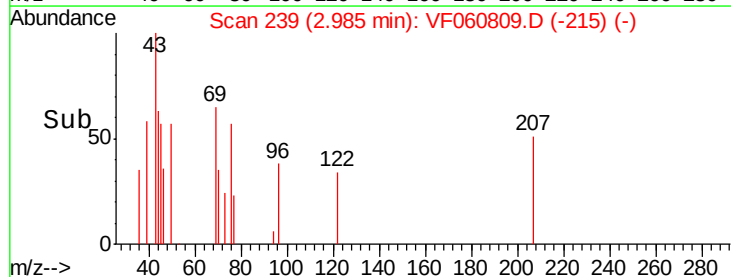
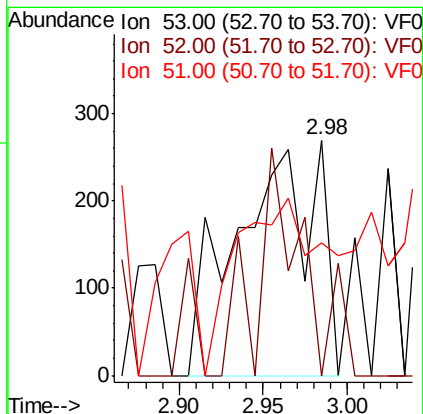
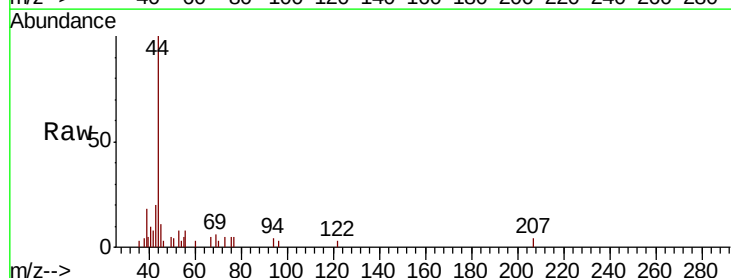
Tgt Ion: 53 Resp: 884

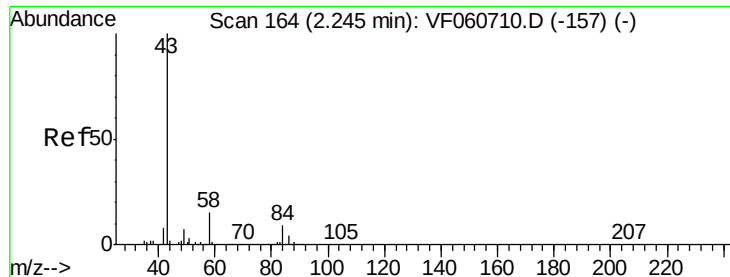
Ion Ratio Lower Upper

53 100

52 0.0 68.8 103.2#

51 56.3 36.7 55.1#





#16

Acetone

Concen: 36.549 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.00 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_F

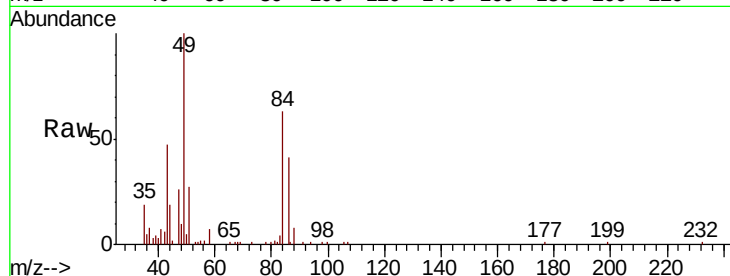
ClientSampleId :

Tot Ion: 43 Resp: 16510

Ion Ratio Lower Upper

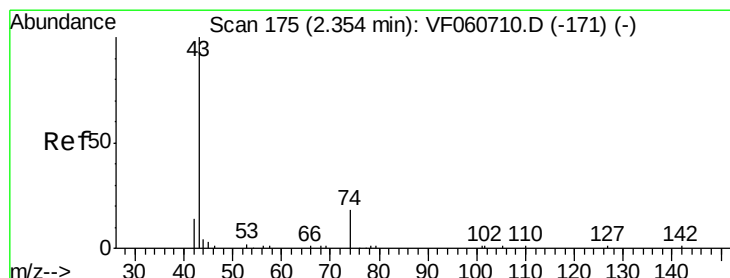
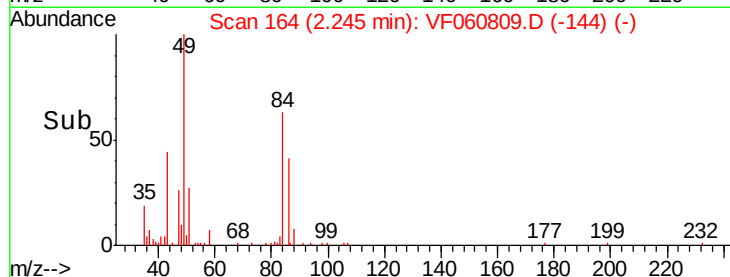
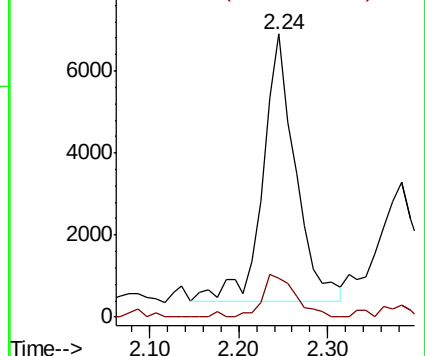
43 100

58 13.9 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#18

Methyl Acetate

Concen: 11.070 ug/l

RT: 2.38 min Scan# 178

Delta R.T. 0.03 min

Lab File: VF060809.D

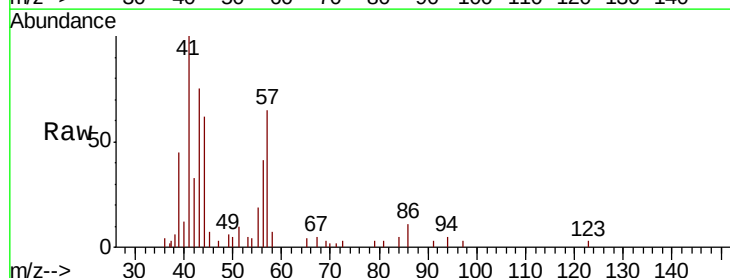
Acq: 20 Nov 2018 18:12

Tgt Ion: 43 Resp: 8211

Ion Ratio Lower Upper

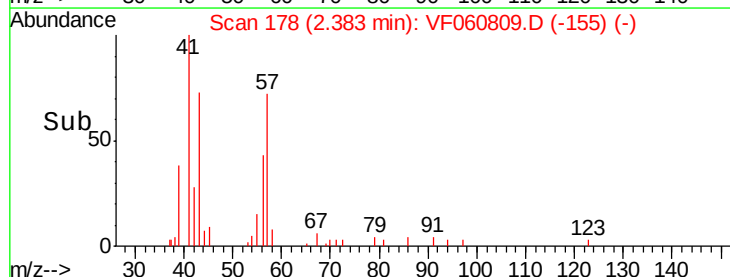
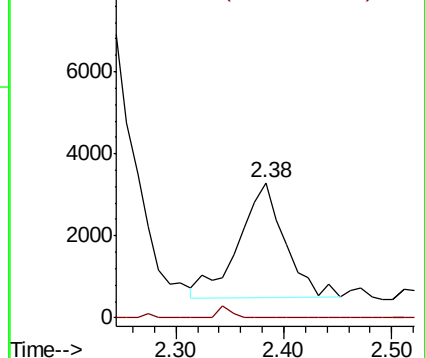
43 100

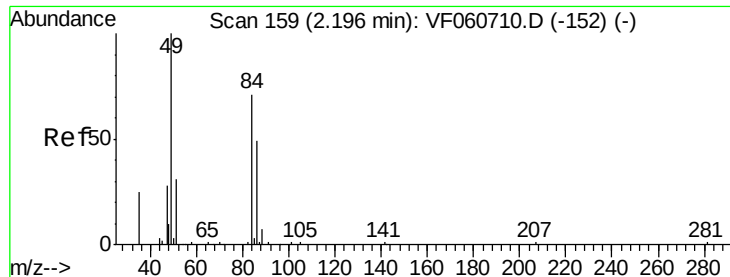
74 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

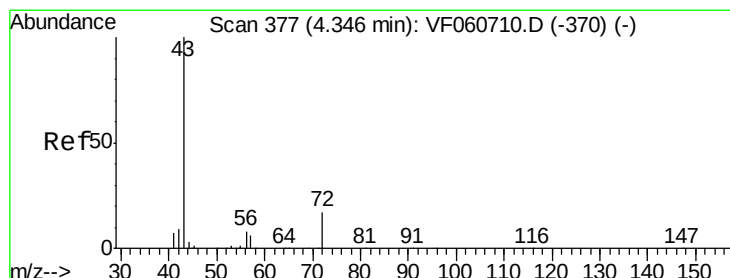
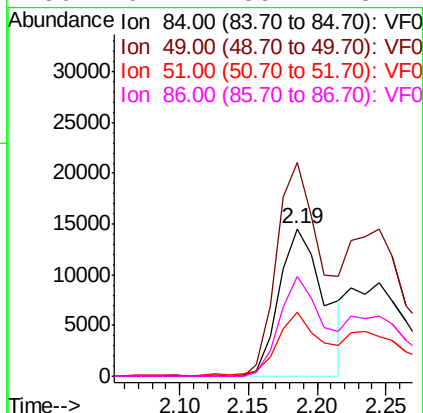
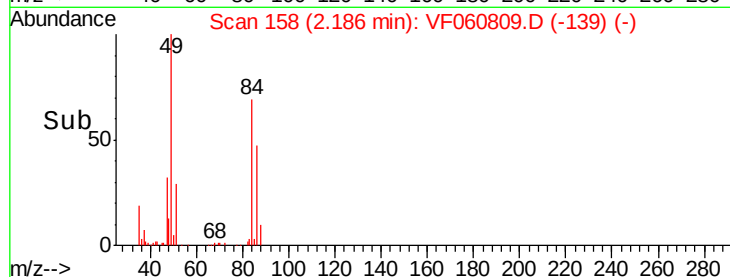
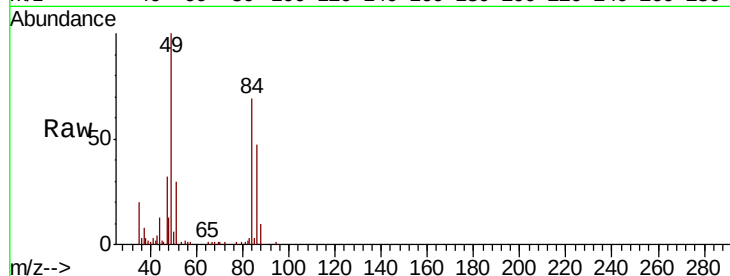




#20
Methylene Chloride
Concen: 20.472 ug/l
RT: 2.19 min Scan# 158
Delta R.T. -0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

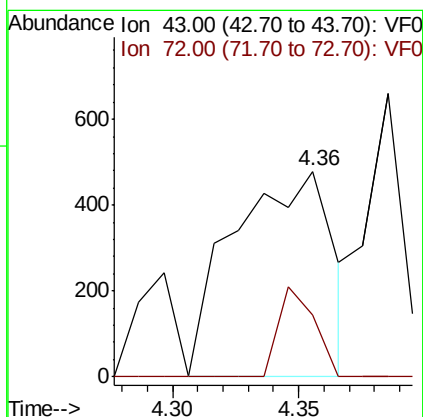
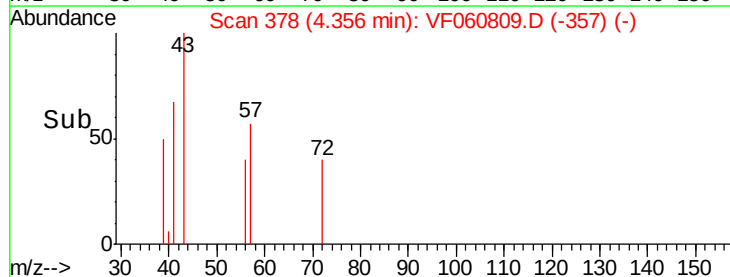
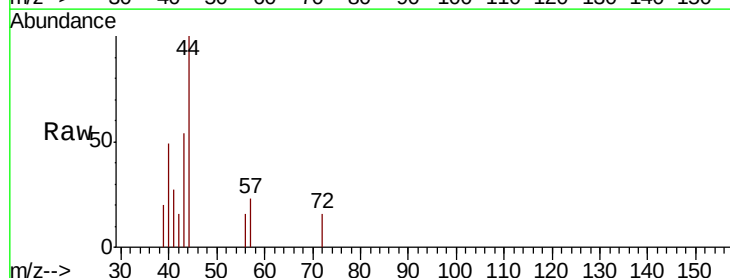
Instrument :
MSVOA_F
ClientSampled :

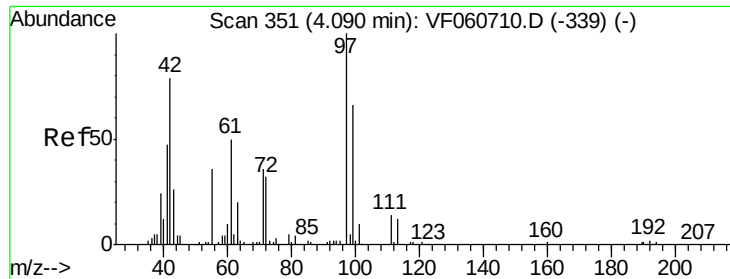
Tot Ion: 84 Resp: 33271
Ion Ratio Lower Upper
84 100
49 144.7 120.2 180.4
51 43.8 37.2 55.8
86 67.4 55.1 82.7



#25
2-Butanone
Concen: 1.766 ug/l
RT: 4.36 min Scan# 378
Delta R.T. 0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

Tgt Ion: 43 Resp: 1312
Ion Ratio Lower Upper
43 100
72 30.1 16.1 24.1#





#29

Tetrahydrofuran

Concen: 1.194 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.01 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_F

ClientSampled :

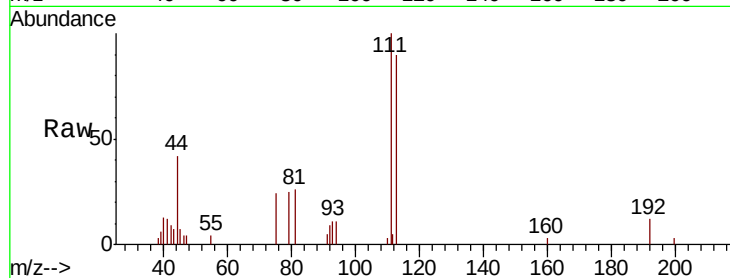
Tot Ion: 42 Resp: 366

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

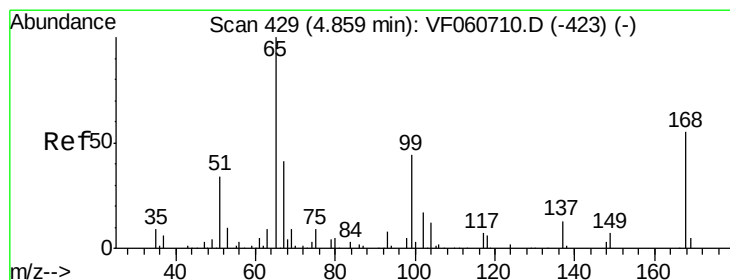
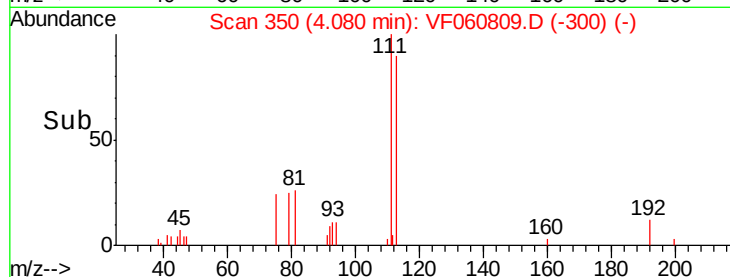
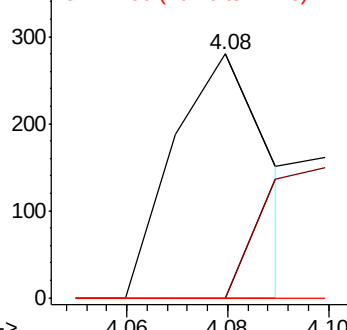
71 0.0 32.2 48.2#



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: 47.421 ug/l

RT: 4.86 min Scan# 429

Delta R.T. -0.00 min

Lab File: VF060809.D

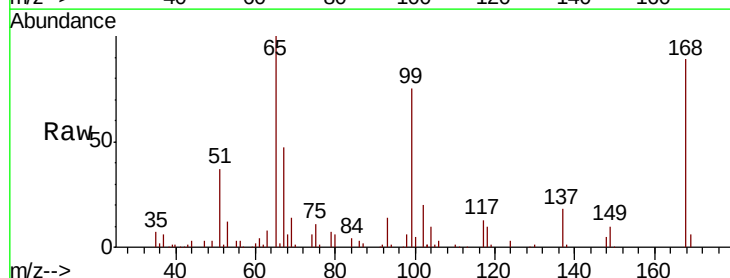
Acq: 20 Nov 2018 18:12

Tgt Ion: 65 Resp: 100217

Ion Ratio Lower Upper

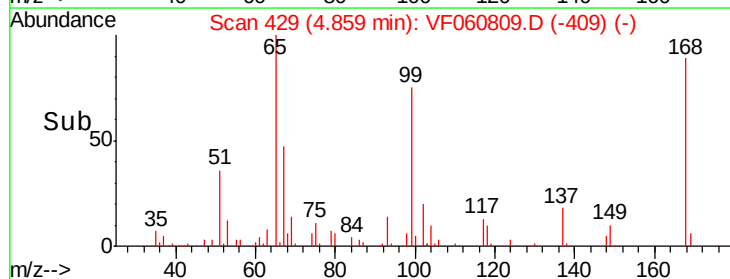
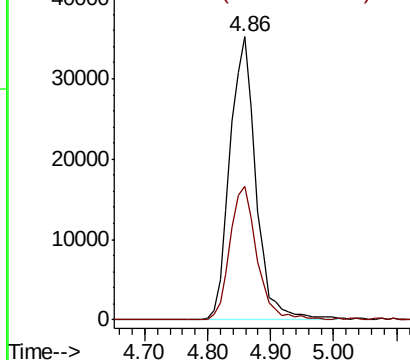
65 100

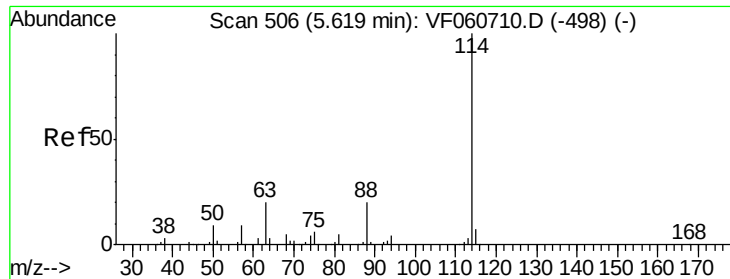
67 47.0 0.0 90.2



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: 5.61 min Scan# 505

Delta R.T. -0.01 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_F

ClientSampleId :

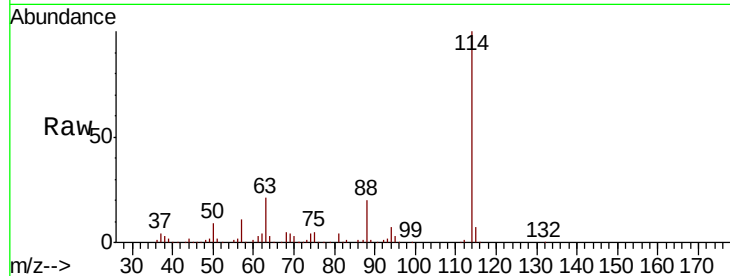
Tot Ion:114 Resp: 323321

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

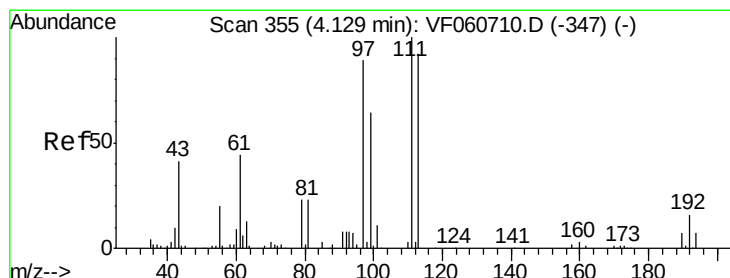
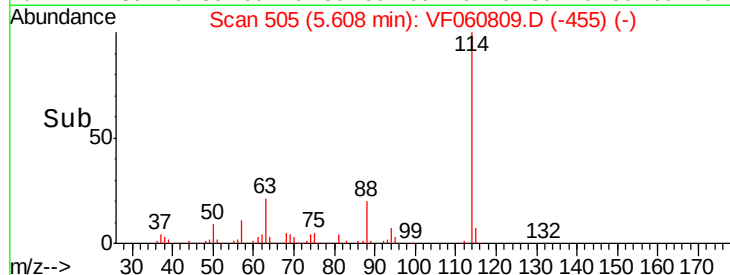
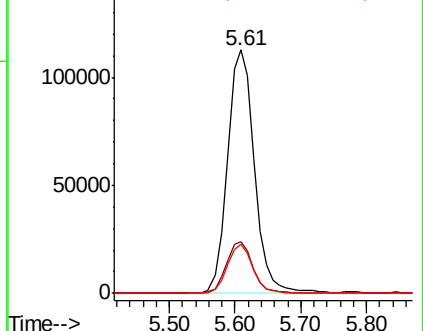
88 20.3 0.0 39.6



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: 51.712 ug/l

RT: 4.12 min Scan# 354

Delta R.T. -0.01 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

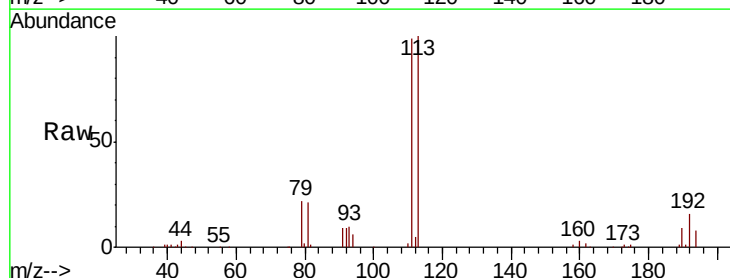
Tgt Ion:113 Resp: 125681

Ion Ratio Lower Upper

113 100

111 99.0 87.1 130.7

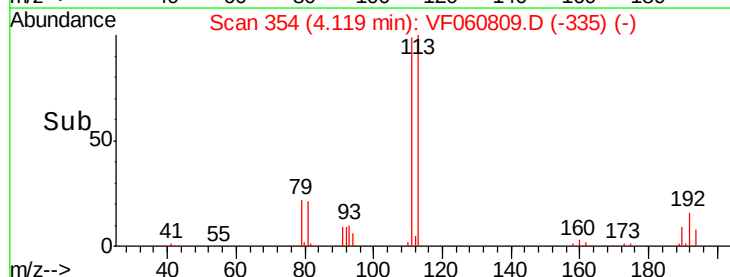
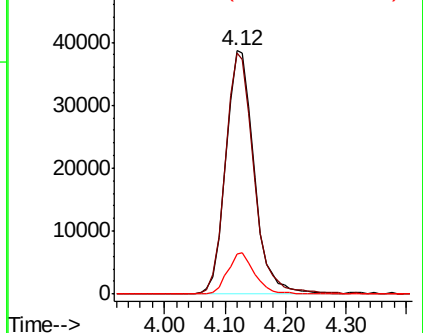
192 16.3 13.8 20.6

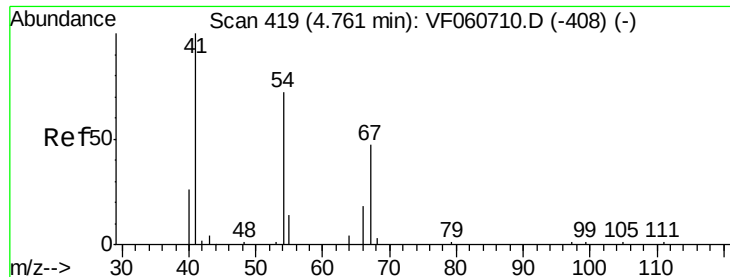


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#41

Methacrylonitrile

Concen: Below Cal

RT: 4.75 min Scan# 418

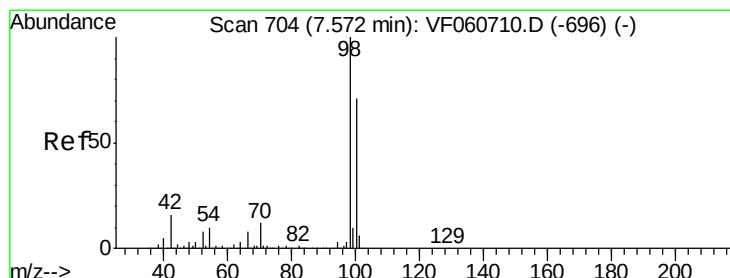
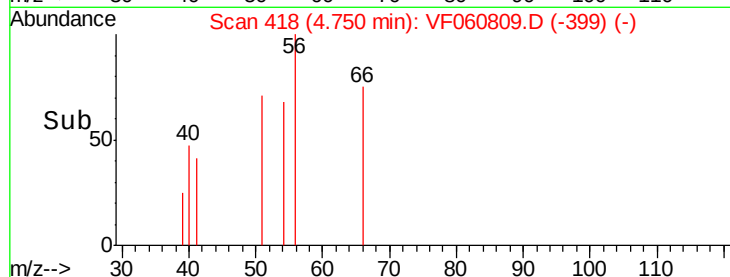
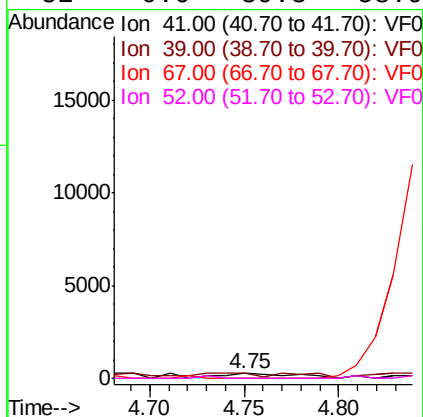
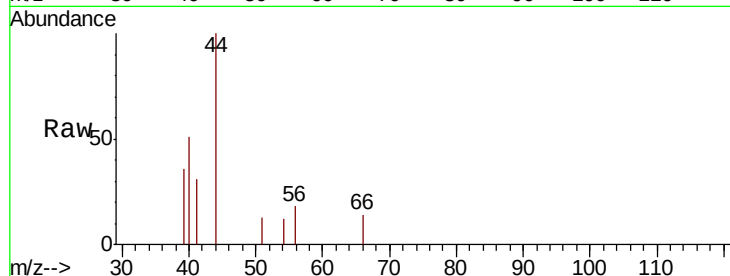
Delta R.T. -0.01 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion:	41	Resp:	750
Ion	Ratio	Lower	Upper
41	100		
39	115.2	47.1	70.7#
67	0.0	37.1	55.7#
52	0.0	39.3	58.9#



#50

Toluene-d8

Concen: 46.040 ug/l

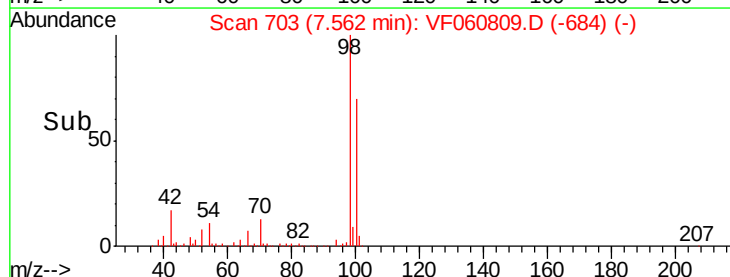
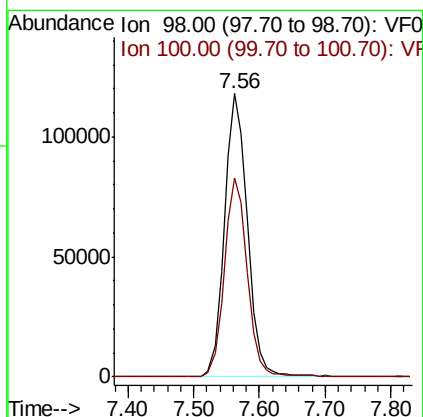
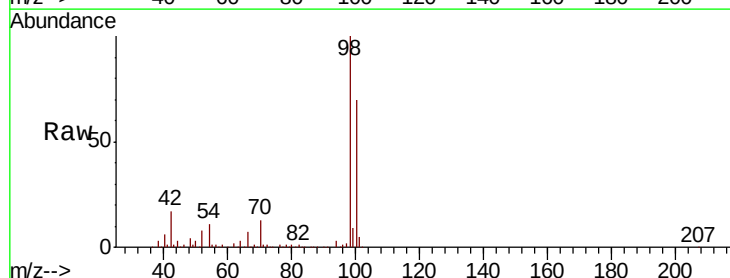
RT: 7.56 min Scan# 703

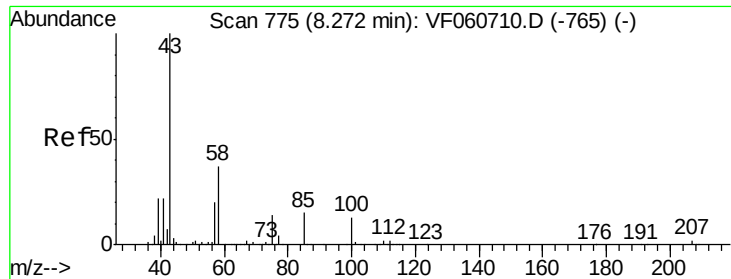
Delta R.T. -0.01 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Tgt Ion:	98	Resp:	288949
Ion	Ratio	Lower	Upper
98	100		
100	70.1	56.5	84.7





#51

4-Methyl-2-Pentanone

Concen: 2.289 ug/l

RT: 8.27 min Scan# 775

Delta R.T. -0.00 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_F

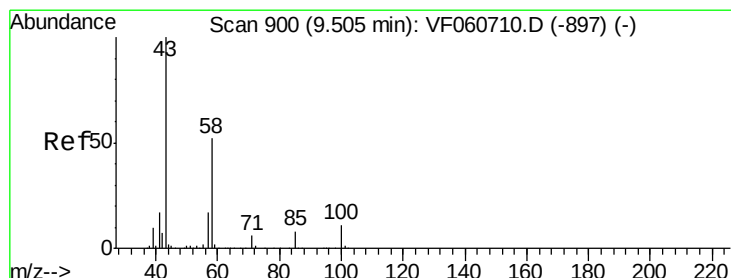
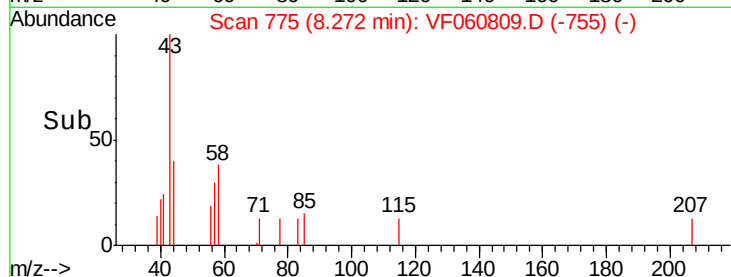
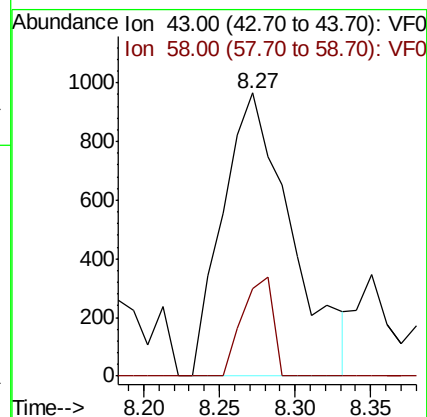
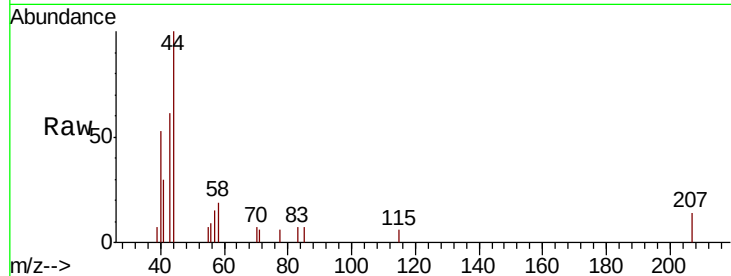
ClientSampled :

Tot Ion: 43 Resp: 3060

Ion Ratio Lower Upper

43 100

58 31.1 29.2 43.8



#59

2-Hexanone

Concen: 5.454 ug/l

RT: 9.50 min Scan# 900

Delta R.T. -0.00 min

Lab File: VF060809.D

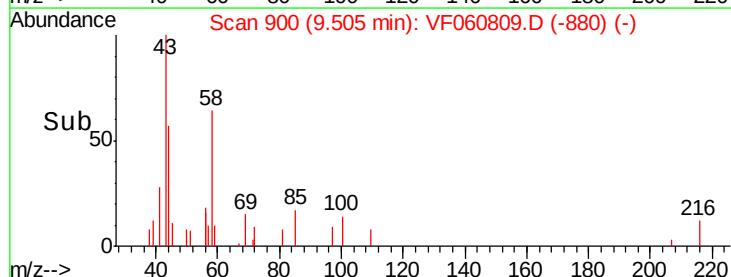
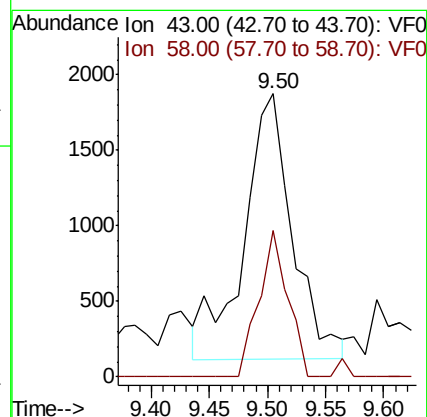
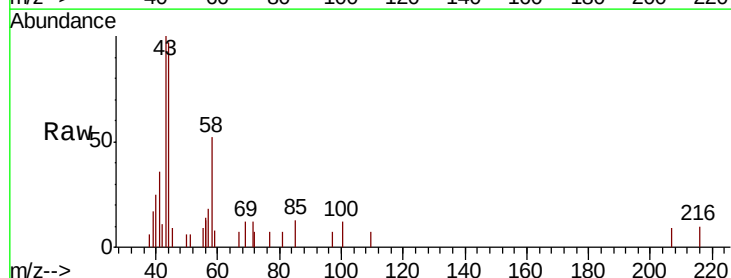
Acq: 20 Nov 2018 18:12

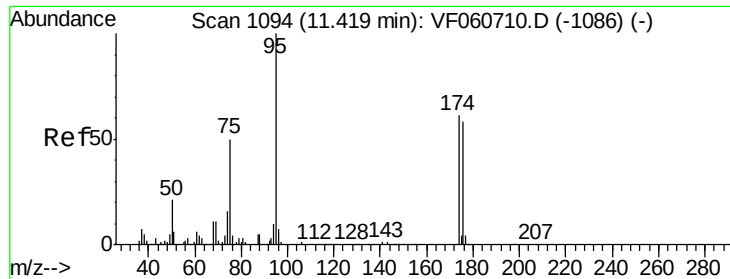
Tgt Ion: 43 Resp: 5124

Ion Ratio Lower Upper

43 100

58 51.8 24.9 74.7

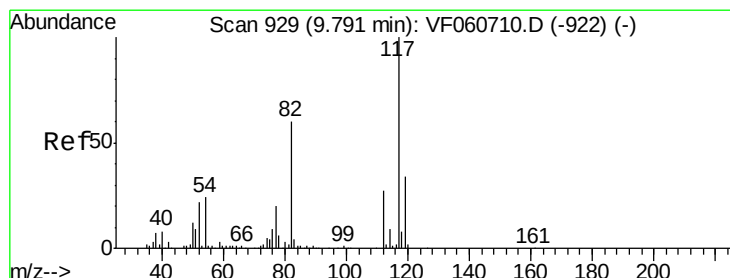
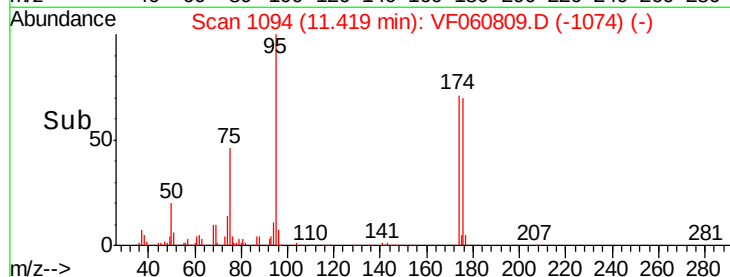
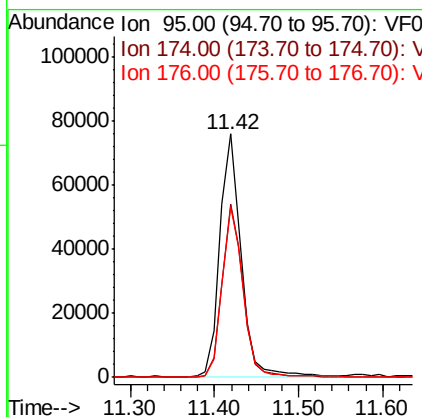
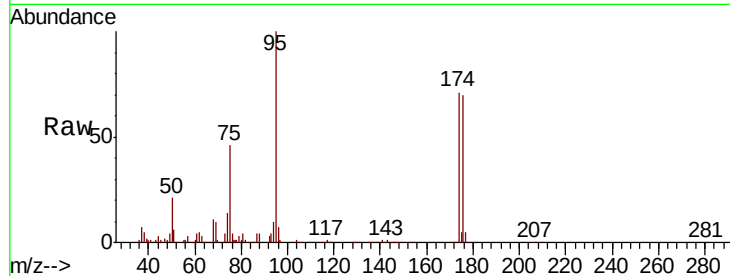




#62
4-Bromofluorobenzene
Concen: 46.244 ug/l
RT: 11.42 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

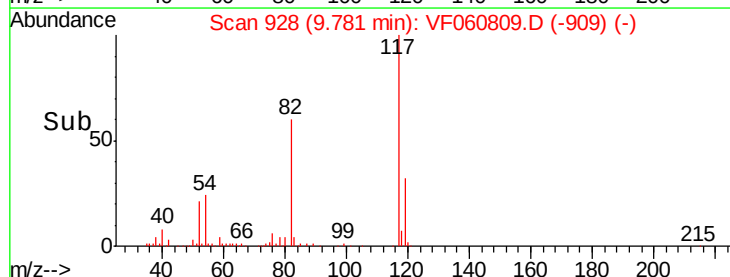
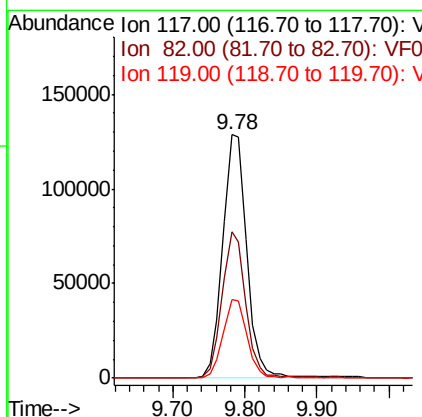
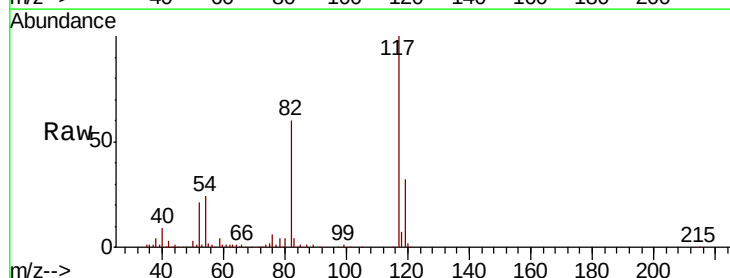
Instrument :
MSVOA_F
ClientSampleId :

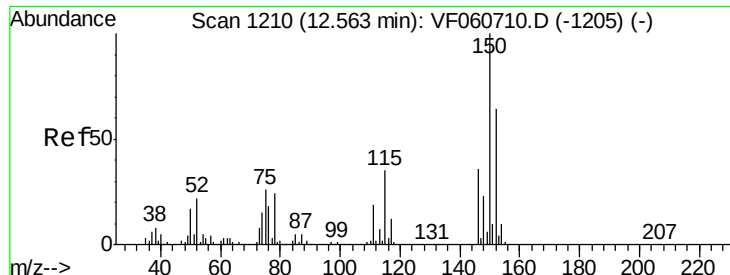
Tot Ion: 95 Resp: 133876
Ion Ratio Lower Upper
95 100
174 71.1 0.0 121.6
176 70.1 0.0 115.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.78 min Scan# 928
Delta R.T. -0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

Tgt Ion: 117 Resp: 299563
Ion Ratio Lower Upper
117 100
82 60.1 47.9 71.9
119 32.0 26.8 40.2



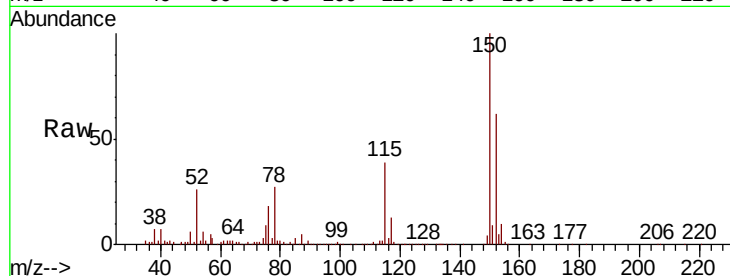


#72

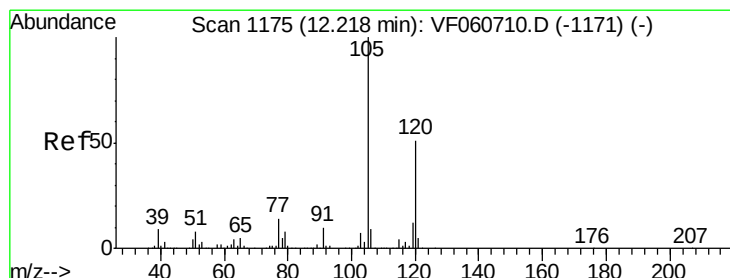
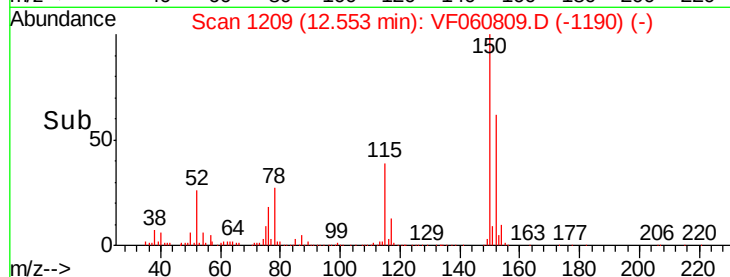
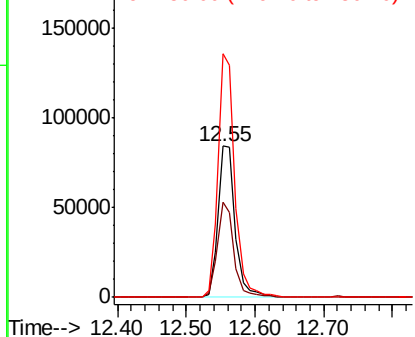
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	63.3	27.9	83.7
150	161.2	0.0	316.4



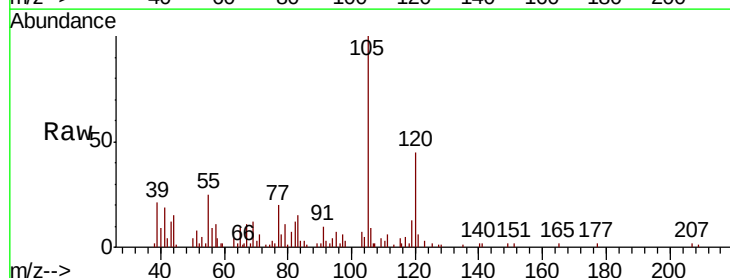
Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V



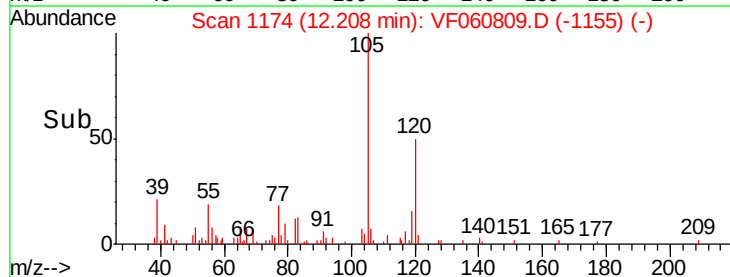
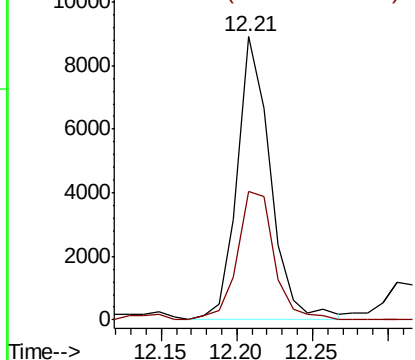
#84

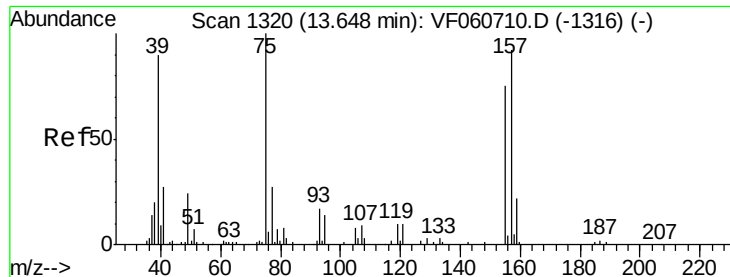
1,2,4-Trimethylbenzene
Concen: 1.408 ug/l
RT: 12.21 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VF060809.D
Acq: 20 Nov 2018 18:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	25.5	76.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 16.248 ug/l

RT: 13.63 min Scan# 1318

Delta R.T. -0.02 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

Instrument :

MSVOA_F

ClientSampleId :

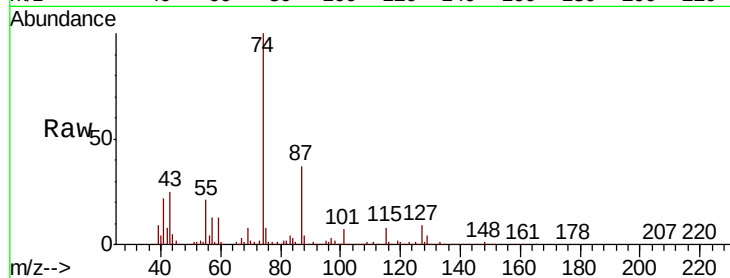
Tot Ion: 75 Resp: 5951

Ion Ratio Lower Upper

75 100

155 0.0 37.4 112.2#

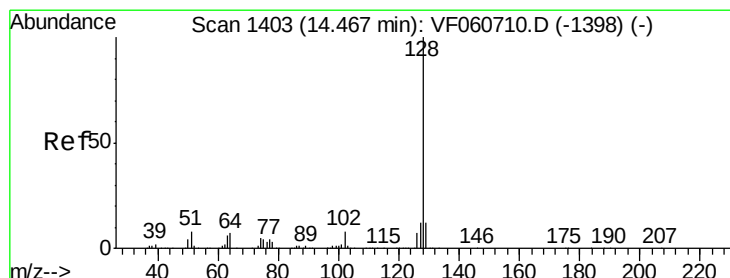
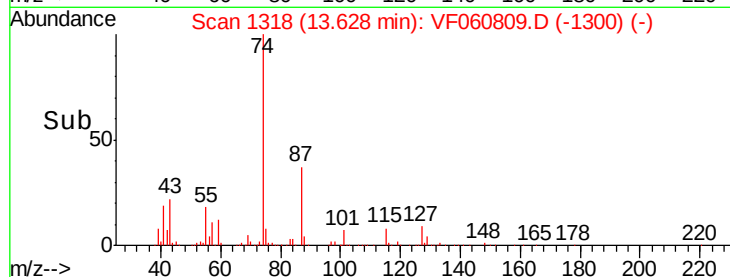
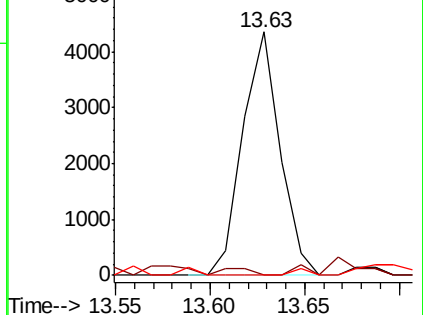
157 0.0 46.0 138.0#



Abundance Ion 75.00 (74.70 to 75.70): VF0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V



#95

Naphthalene

Concen: 4.878 ug/l

RT: 14.47 min Scan# 1403

Delta R.T. -0.00 min

Lab File: VF060809.D

Acq: 20 Nov 2018 18:12

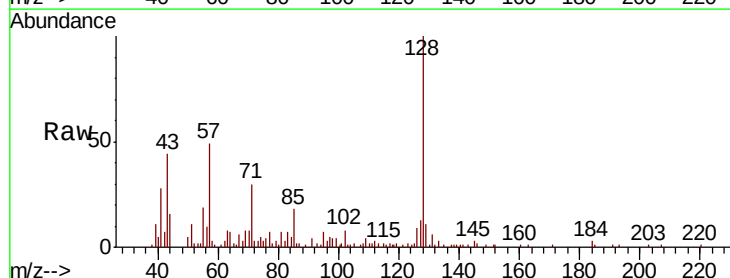
Tgt Ion: 128 Resp: 29412

Ion Ratio Lower Upper

128 100

127 12.7 9.8 14.6

129 11.2 9.3 13.9



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

