

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF061005.D
 Acq On : 12 Dec 2018 19:42
 Operator : VA/AP
 Sample : J6344-04RE
 Misc : 5.08g/5mL/MSVOA-F/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200031RE

Quant Time: Dec 13 01:27:02 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	257340	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.59	114	414888	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	369226	50.00	ug/l	-0.05
72) 1,4-Dichlorobenzene-d4	12.55	152	193939	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	115969	38.25	ug/l	-0.05
Spiked Amount			Recovery	=	76.50%	
35) Dibromofluoromethane	4.10	113	932	0.28	ug/l	-0.05
Spiked Amount			Recovery	=	0.56%	
50) Toluene-d8	7.55	98	351395	36.24	ug/l	-0.05
Spiked Amount			Recovery	=	72.48%	
62) 4-Bromofluorobenzene	11.40	95	170071	38.60	ug/l	-0.04
Spiked Amount			Recovery	=	77.20%	

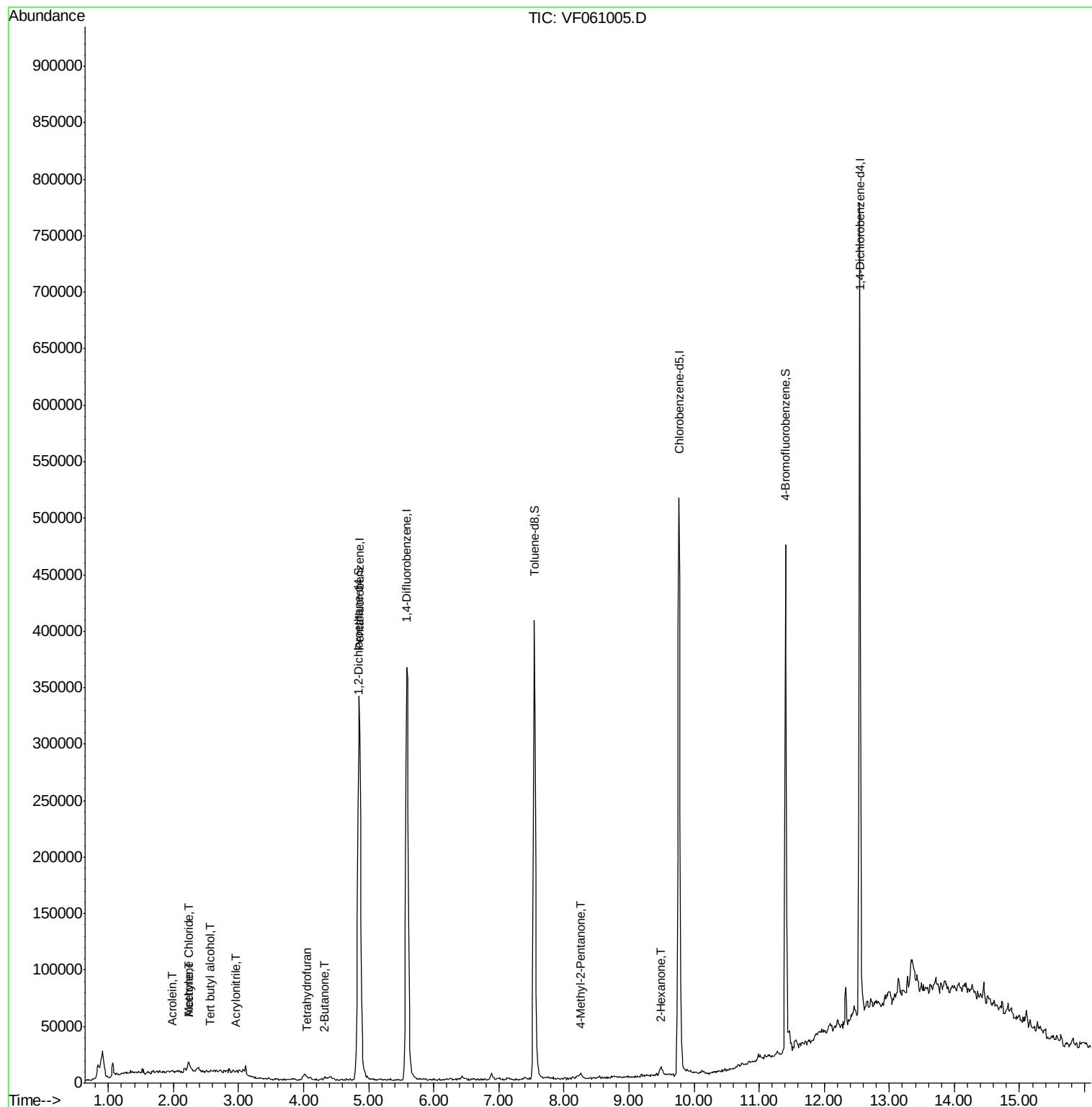
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.56	59	461	3.710	ug/l #	1
13) Acrolein	1.97	56	675	5.733	ug/l #	78
15) Acrylonitrile	2.95	53	314	1.127	ug/l #	8
16) Acetone	2.23	43	7959	14.237	ug/l	95
18) Methyl Acetate	2.37	43	734	Below Cal		93
20) Methylene Chloride	2.23	84	3085	1.504	ug/l #	68
25) 2-Butanone	4.33	43	7375	7.627	ug/l #	91
29) Tetrahydrofuran	4.05	42	501	1.222	ug/l #	37
41) Methacrylonitrile	4.72	41	487	Below Cal	#	40
51) 4-Methyl-2-Pentanone	8.26	43	5857	3.396	ug/l #	74
59) 2-Hexanone	9.49	43	9390	7.761	ug/l	98
95) Naphthalene	14.45	128	5447	Below Cal	#	86

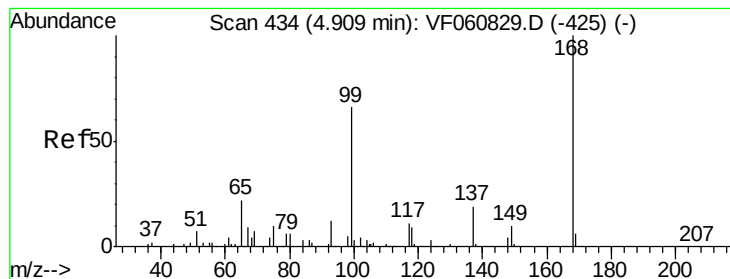
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA F\DATA\VF121218\
Data File : VF061005.D
Acq On : 12 Dec 2018 19:42
Operator : VA/AP
Sample : J6344-04RE
Misc : 5.08g/5mL/MSVOA-F/SOIL
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
RBR-200031RE

Quant Time: Dec 13 01:27:02 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: VF061005.D

Acq: 12 Dec 2018 19:42

Instrument :

MSVOA_F

ClientSampleId :

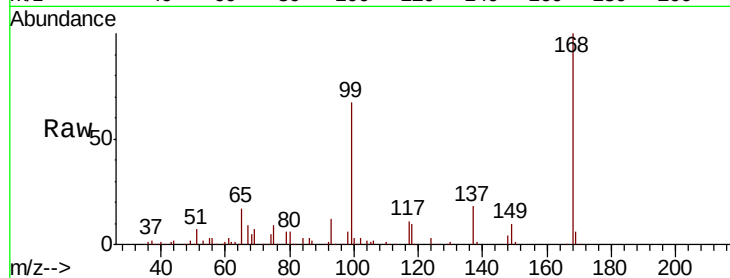
RBR-200031RE

Tot Ion:168 Resp: 257340

Ion Ratio Lower Upper

168 100

99 67.2 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

80000

60000

40000

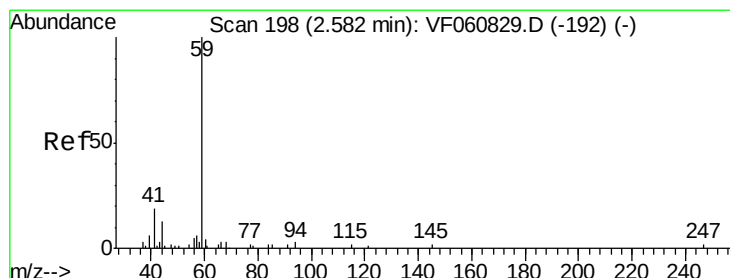
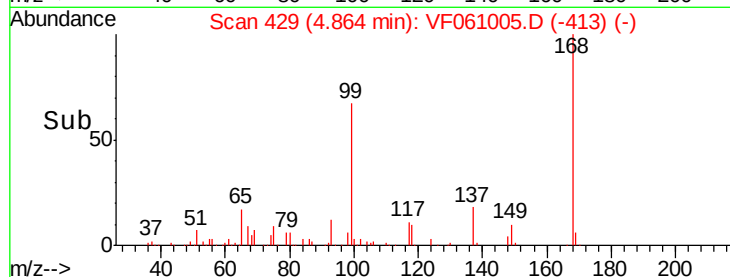
20000

0

Time-->

4.80

5.00



#11

Tert butyl alcohol

Concen: 3.710 ug/l

RT: 2.56 min Scan# 195

Delta R.T. -0.03 min

Lab File: VF061005.D

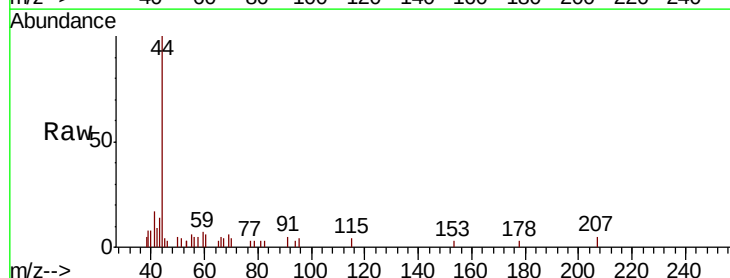
Acq: 12 Dec 2018 19:42

Tgt Ion: 59 Resp: 461

Ion Ratio Lower Upper

59 100

57 70.5 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

2.56

300

200

100

0

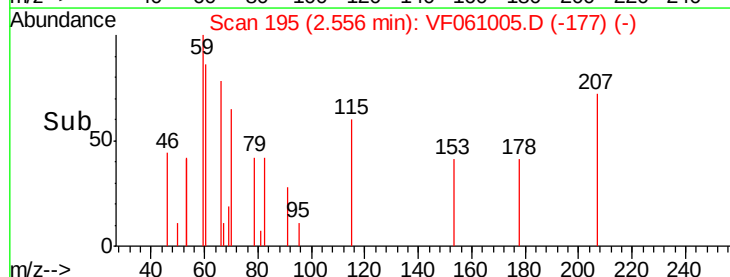
Time-->

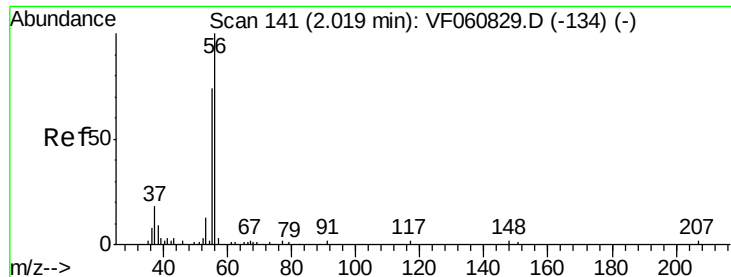
2.52

2.54

2.56

2.58





#13

Acrolein

Concen: 5.733 ug/l

RT: 1.97 min Scan# 136

Delta R.T. -0.05 min

Lab File: VF061005.D

Acq: 12 Dec 2018 19:42

Instrument :

MSVOA_F

ClientSampleId :

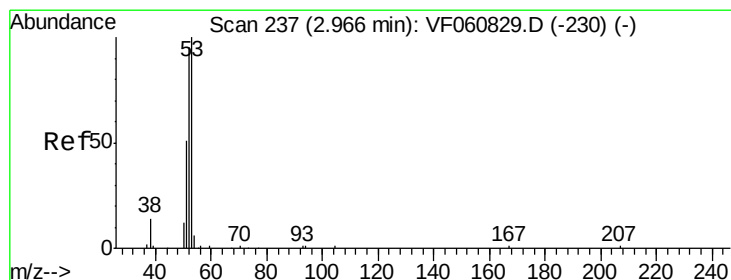
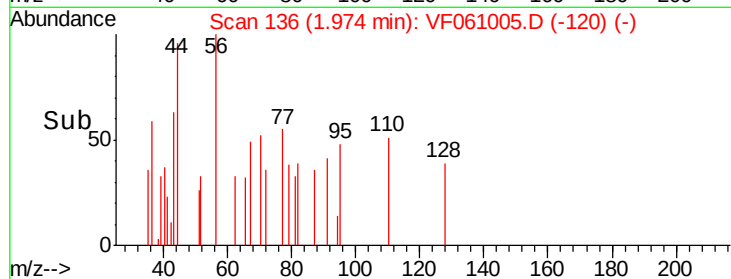
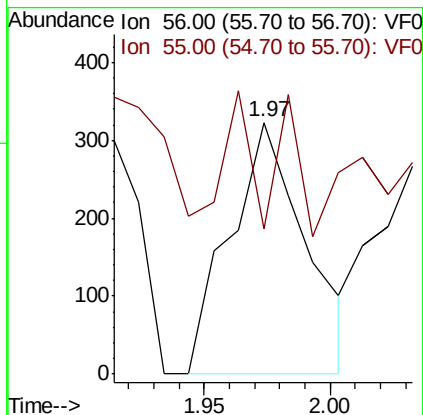
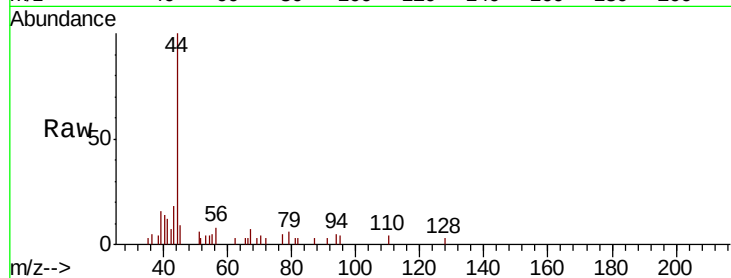
RBR-200031RE

Tot Ion: 56 Resp: 675

Ion Ratio Lower Upper

56 100

55 57.9 61.2 91.8#



#15

Acrylonitrile

Concen: 1.127 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061005.D

Acq: 12 Dec 2018 19:42

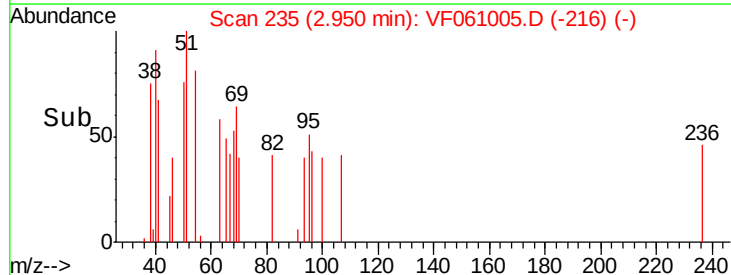
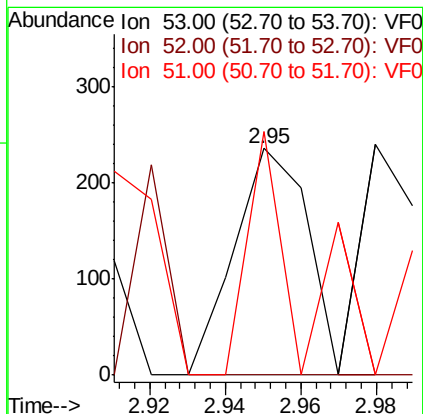
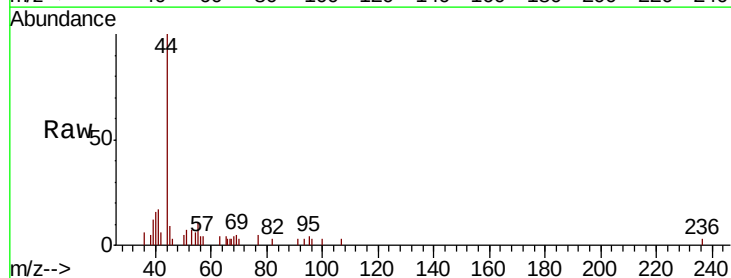
Tgt Ion: 53 Resp: 314

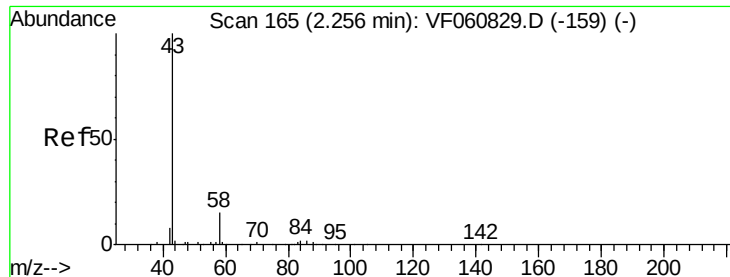
Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

51 107.7 40.7 61.1#





#16

Acetone

Concen: 14.237 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061005.D

Acq: 12 Dec 2018 19:42

Instrument :

MSVOA_F

ClientSampleId :

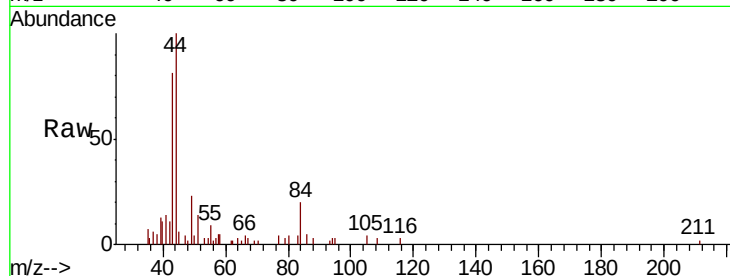
RBR-200031RE

Tot Ion: 43 Resp: 7959

Ion Ratio Lower Upper

43 100

58 12.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.23

4000

3000

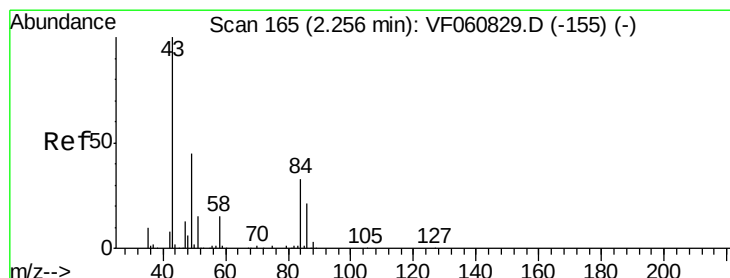
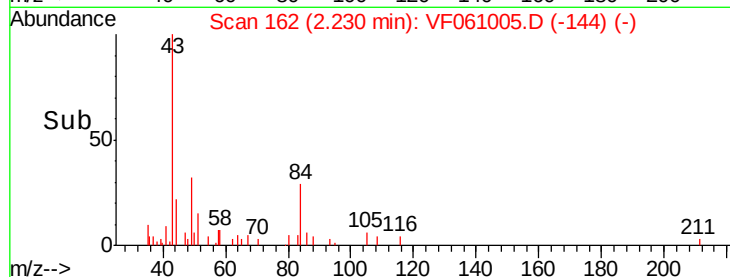
2000

1000

0

Time-->

2.20 2.25 2.30



#20

Methylene Chloride

Concen: 1.504 ug/l

RT: 2.23 min Scan# 162

Delta R.T. -0.03 min

Lab File: VF061005.D

Acq: 12 Dec 2018 19:42

Tgt Ion: 84 Resp: 3085

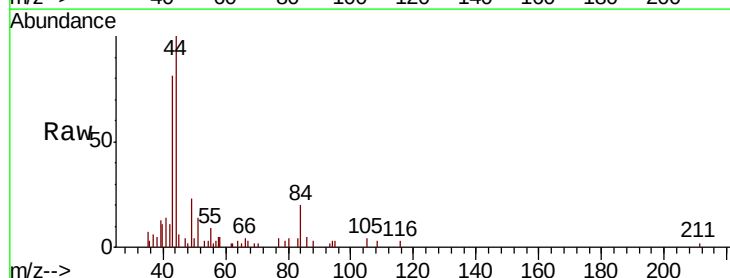
Ion Ratio Lower Upper

84 100

49 111.9 111.3 166.9

51 70.2 38.0 57.0#

86 22.2 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

2000

1500

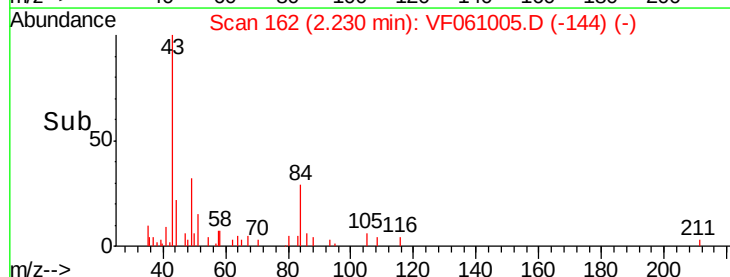
1000

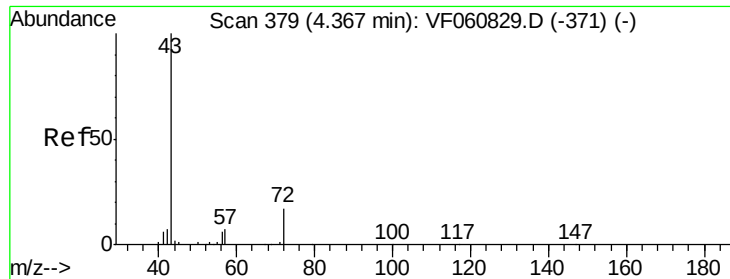
500

0

Time-->

2.15 2.20 2.25 2.30 2.35

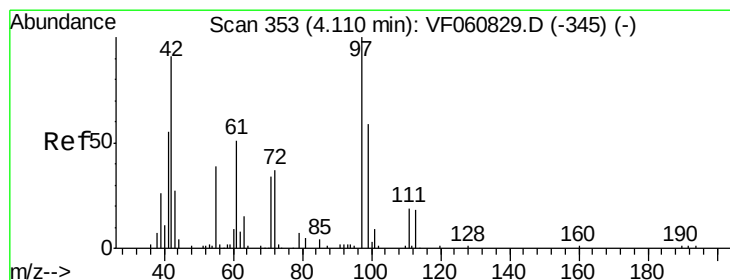
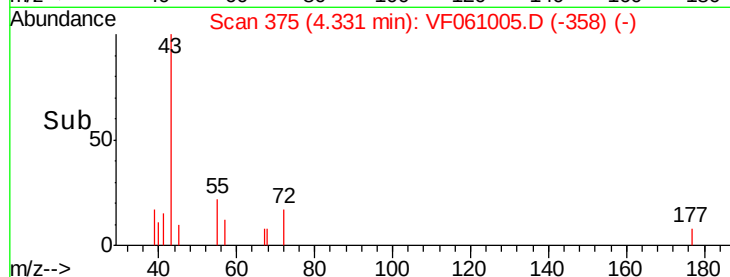
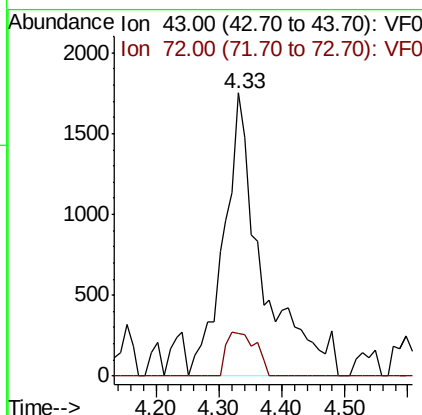
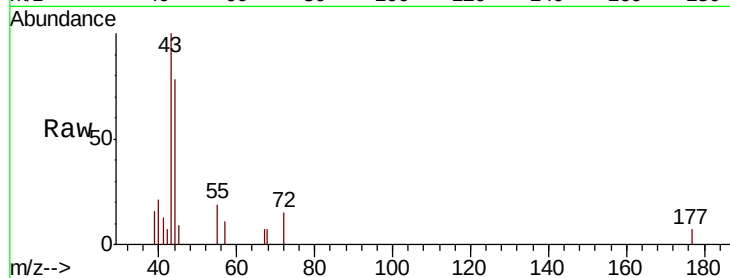




#25
2-Butanone
Concen: 7.627 ug/l
RT: 4.33 min Scan# 375
Delta R.T. -0.04 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

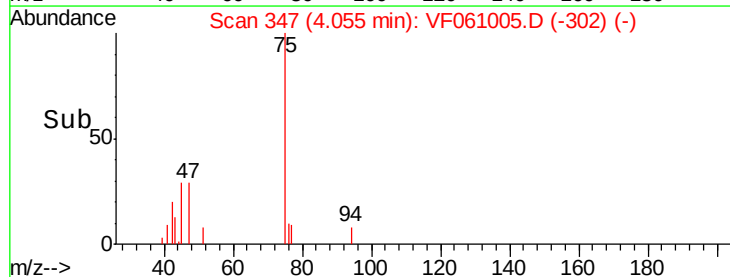
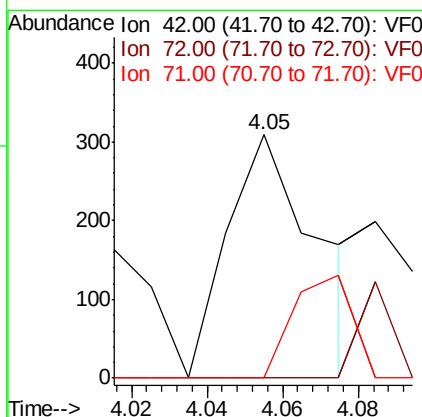
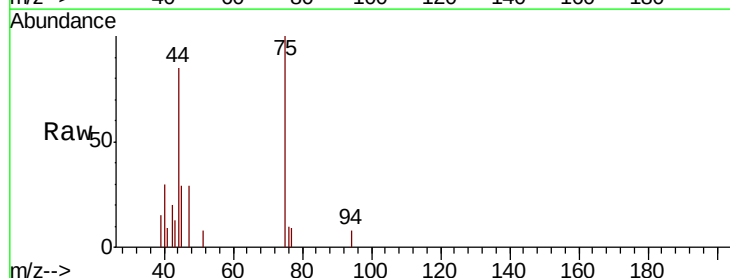
Instrument :
MSVOA_F
ClientSampleId :
RBR-200031RE

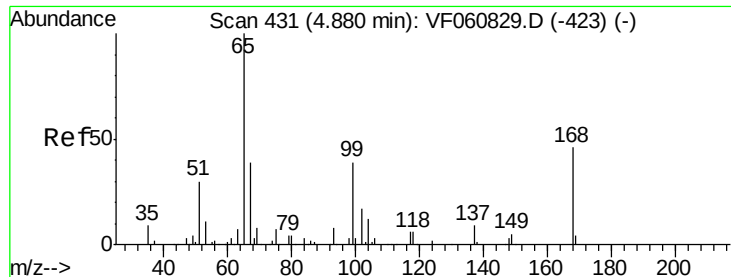
Tot Ion: 43 Resp: 7375
Ion Ratio Lower Upper
43 100
72 15.0 15.4 23.2#



#29
Tetrahydrofuran
Concen: 1.222 ug/l
RT: 4.05 min Scan# 347
Delta R.T. -0.06 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

Tgt Ion: 42 Resp: 501
Ion Ratio Lower Upper
42 100
72 0.0 31.9 47.9#
71 0.0 28.7 43.1#

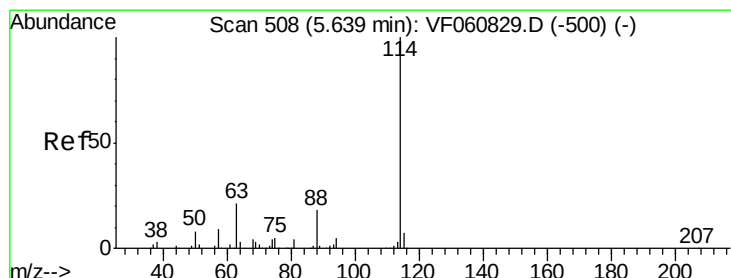
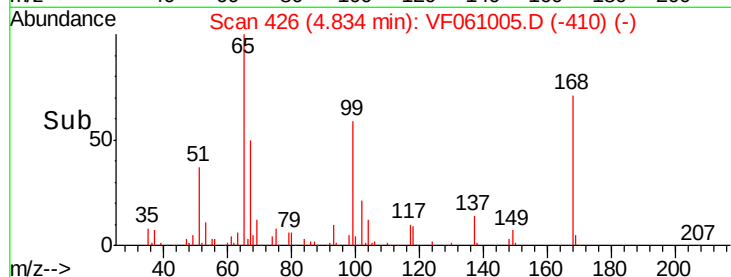
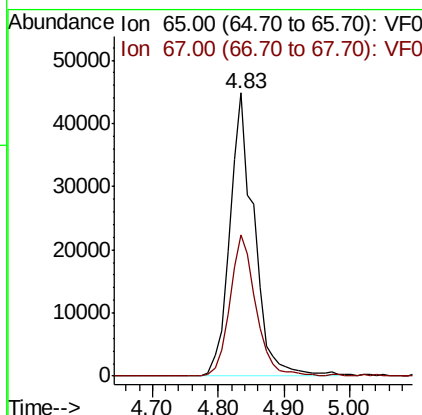
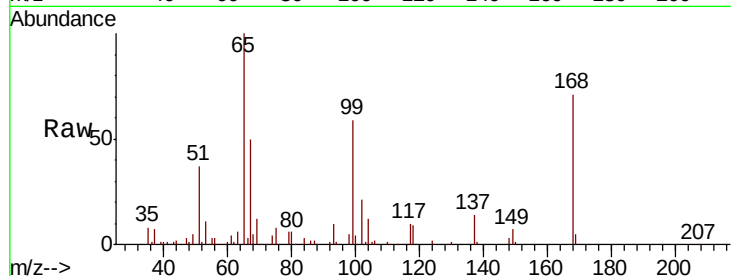




#33
 1,2-Dichloroethane-d4
 Concen: 38.254 ug/l
 RT: 4.83 min Scan# 426
 Delta R.T. -0.05 min
 Lab File: VF061005.D
 Acq: 12 Dec 2018 19:42

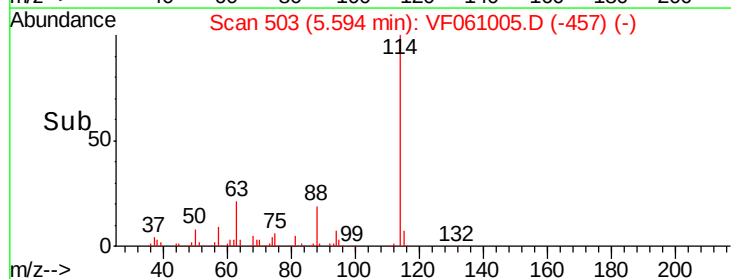
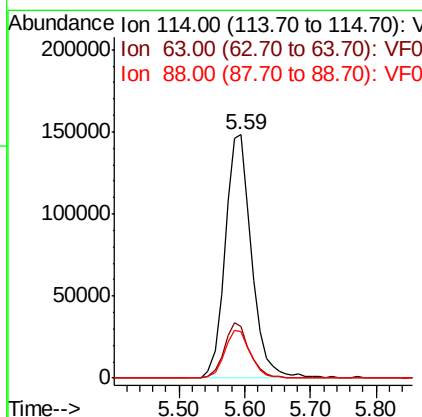
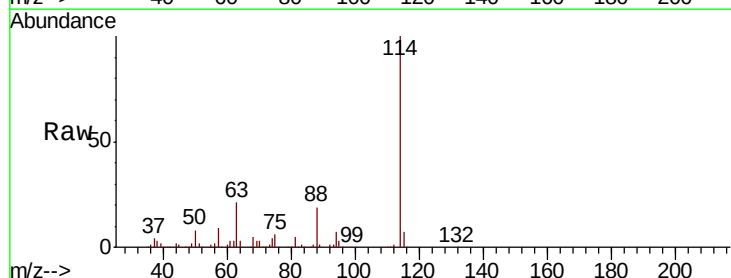
Instrument :
 MSVOA_F
 ClientSampleId :
 RBR-200031RE

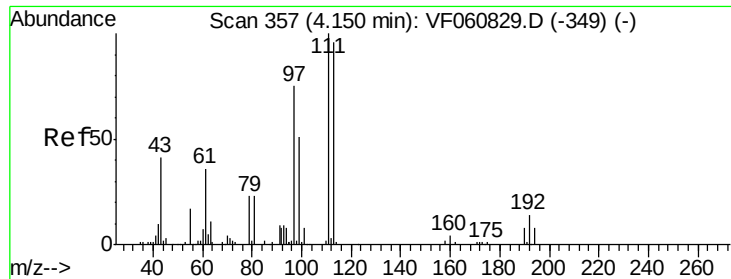
Tot Ion: 65 Resp: 115969
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.05 min
 Lab File: VF061005.D
 Acq: 12 Dec 2018 19:42

Tgt Ion: 114 Resp: 414888
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 41.6
 88 19.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 0.283 ug/l

RT: 4.10 min Scan# 352

Delta R.T. -0.05 min

Lab File: VF061005.D

Acq: 12 Dec 2018 19:42

Instrument :

MSVOA_F

ClientSampleId :

RBR-200031RE

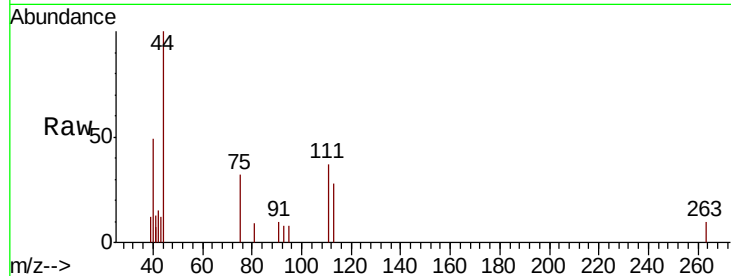
Tot Ion:113 Resp: 932

Ion Ratio Lower Upper

113 100

111 130.6 83.0 124.6#

192 0.0 12.3 18.5#

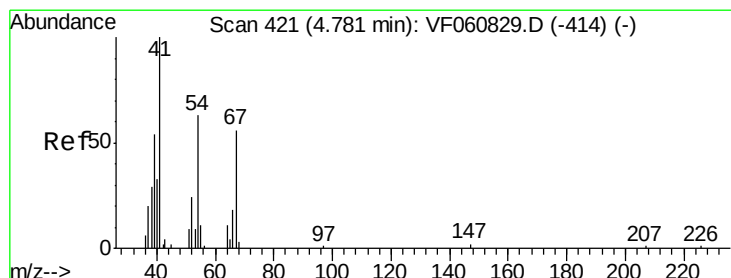
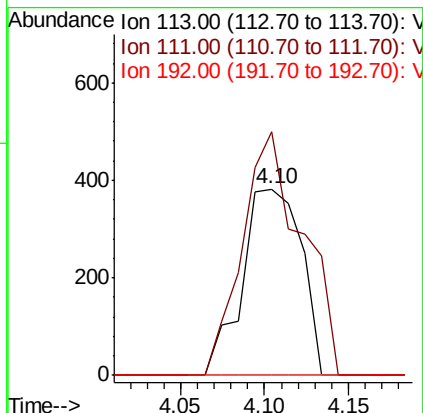
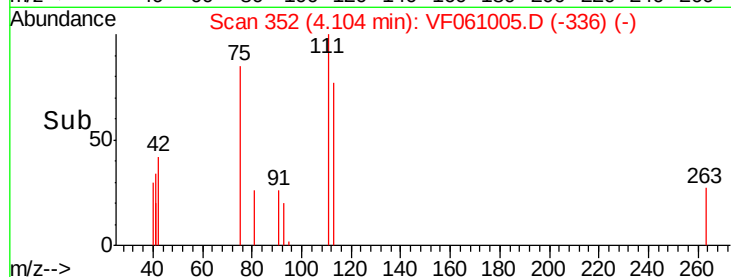


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

Time-->



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.72 min Scan# 414

Delta R.T. -0.07 min

Lab File: VF061005.D

Acq: 12 Dec 2018 19:42

Tgt Ion: 41 Resp: 487

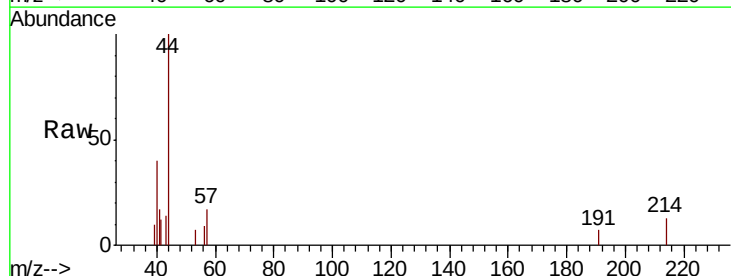
Ion Ratio Lower Upper

41 100

39 35.8 53.0 79.6#

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#



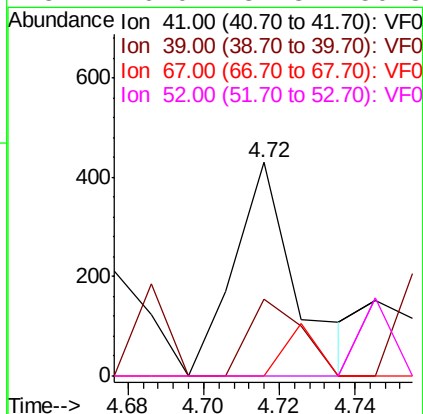
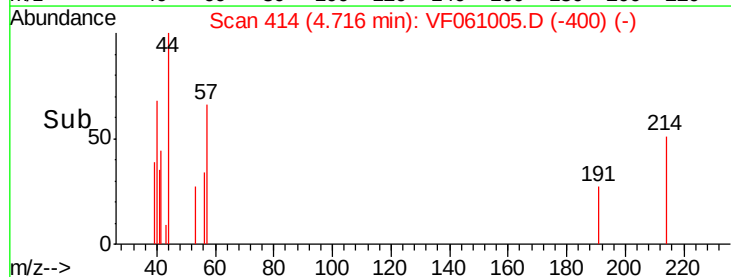
Abundance Ion 41.00 (40.70 to 41.70): VF0

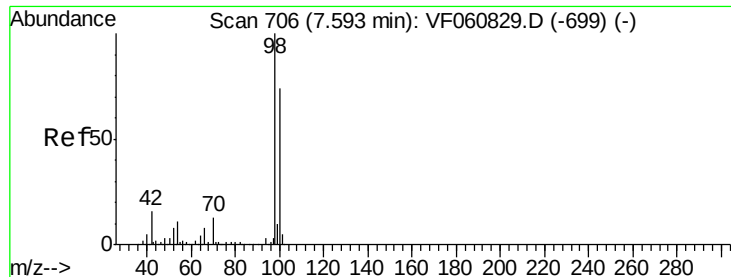
Ion 39.00 (38.70 to 39.70): VF0

Ion 67.00 (66.70 to 67.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Time-->

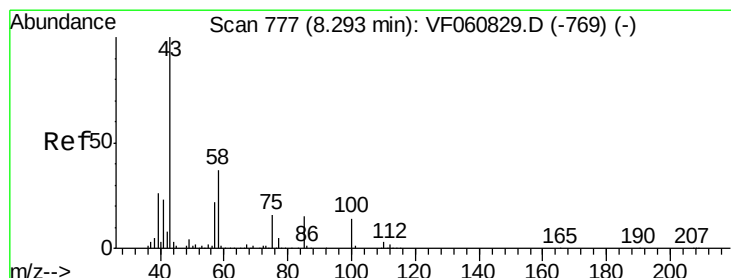
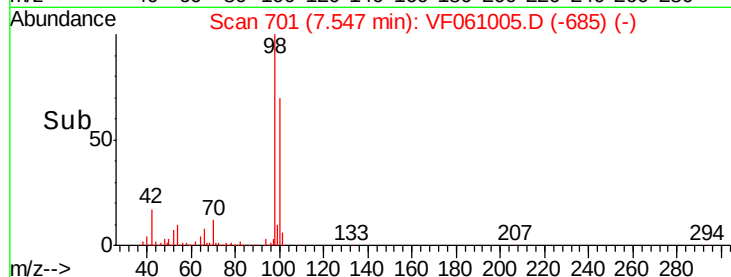
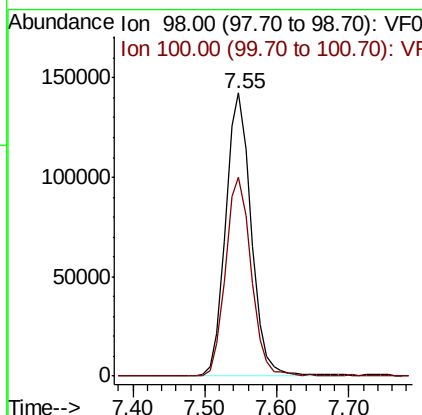
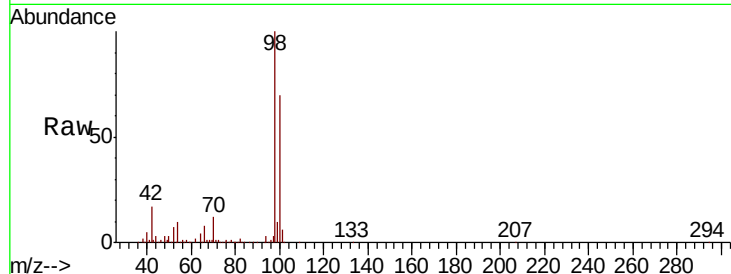




#50
Toluene-d8
Concen: 36.243 ug/l
RT: 7.55 min Scan# 701
Delta R.T. -0.05 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

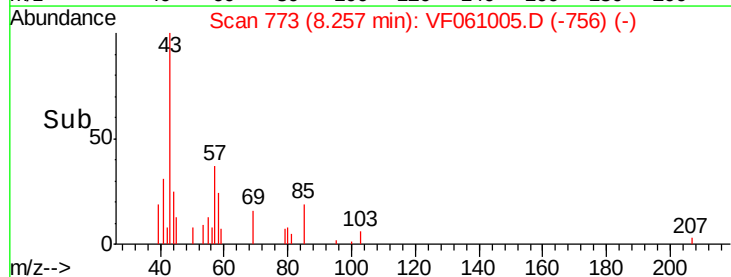
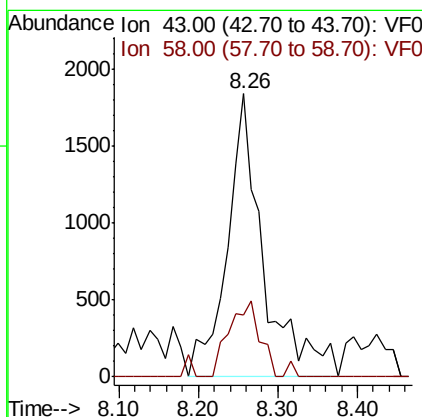
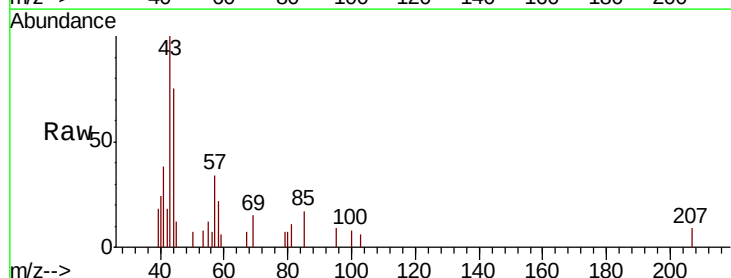
Instrument :
MSVOA_F
ClientSampleId :
RBR-200031RE

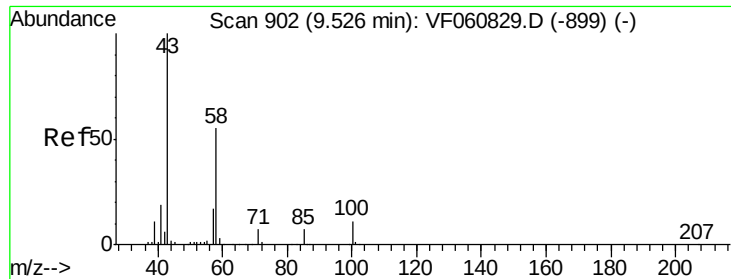
Tot Ion: 98 Resp: 351395
Ion Ratio Lower Upper
98 100
100 70.1 59.3 88.9



#51
4-Methyl-2-Pentanone
Concen: 3.396 ug/l
RT: 8.26 min Scan# 773
Delta R.T. -0.04 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

Tgt Ion: 43 Resp: 5857
Ion Ratio Lower Upper
43 100
58 21.8 29.7 44.5#

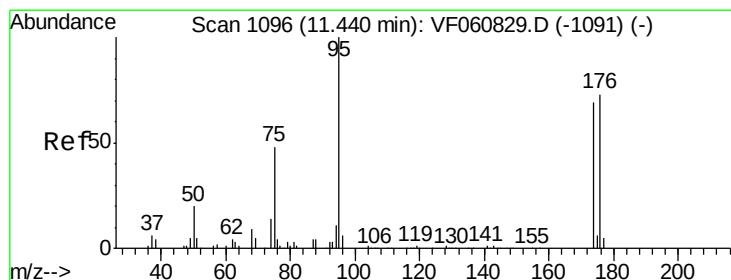
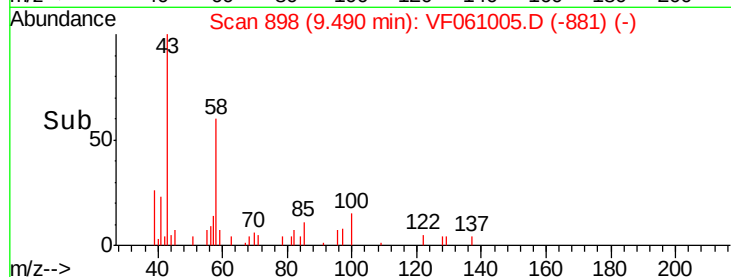
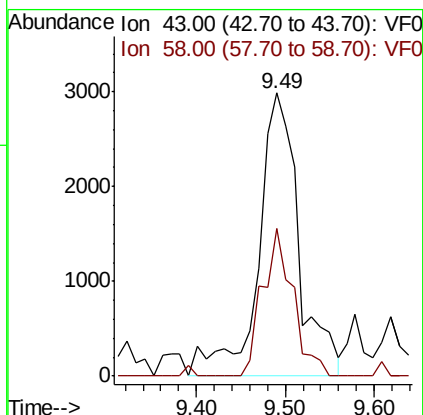
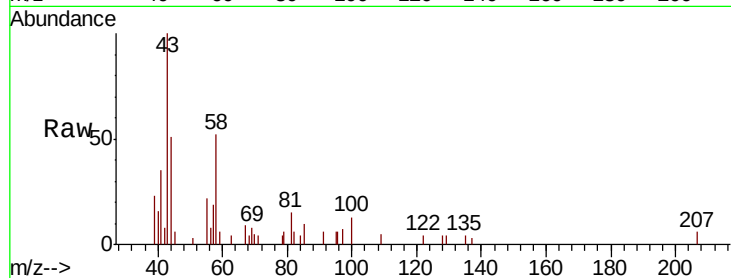




#59
2-Hexanone
Concen: 7.761 ug/l
RT: 9.49 min Scan# 898
Delta R.T. -0.04 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

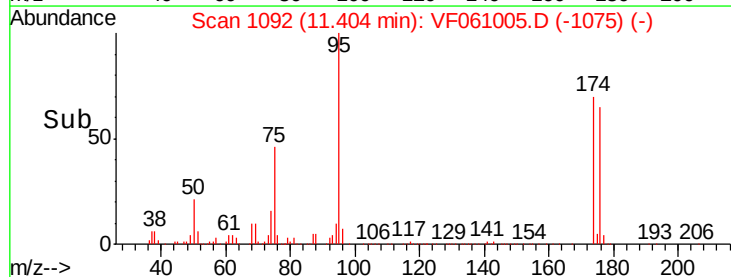
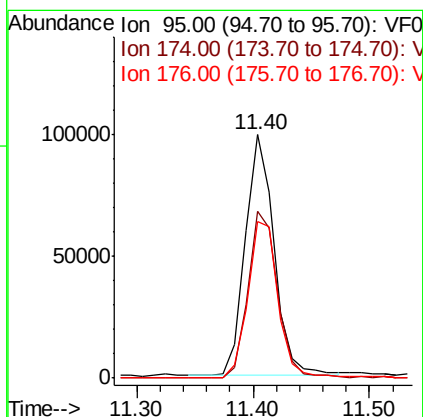
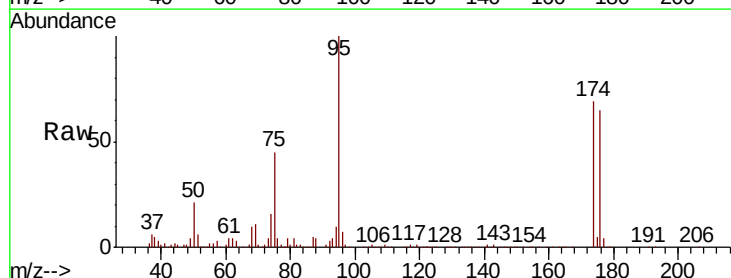
Instrument :
MSVOA_F
ClientSampleId :
RBR-200031RE

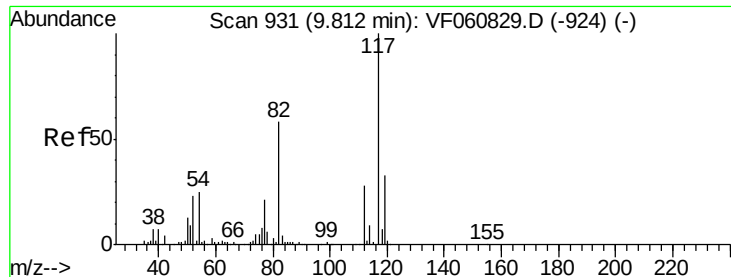
Tot Ion: 43 Resp: 9390
Ion Ratio Lower Upper
43 100
58 52.2 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 38.596 ug/l
RT: 11.40 min Scan# 1092
Delta R.T. -0.04 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

Tgt Ion: 95 Resp: 170071
Ion Ratio Lower Upper
95 100
174 68.7 0.0 138.2
176 64.6 0.0 146.2

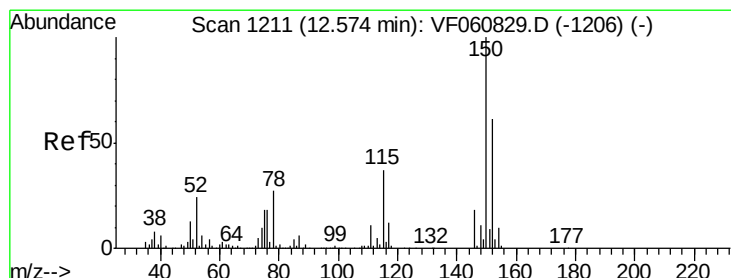
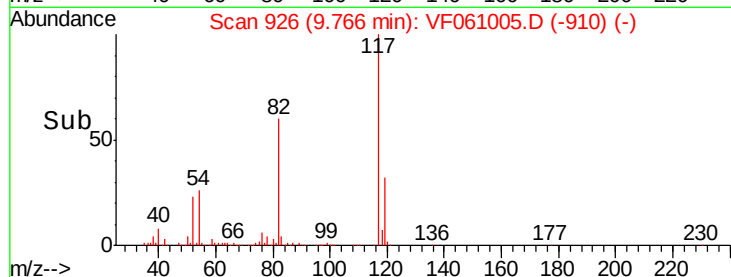
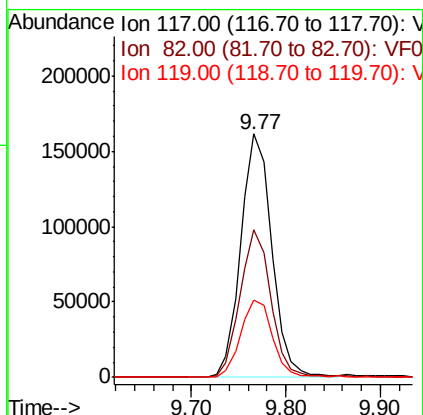
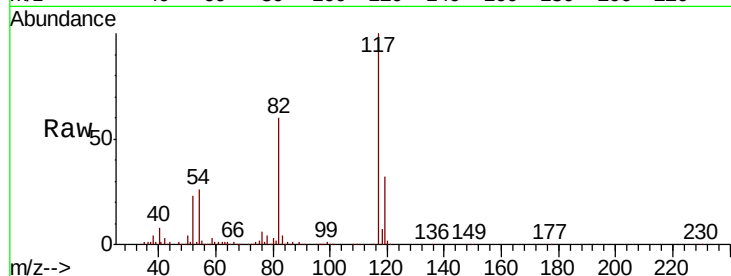




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 926
Delta R.T. -0.05 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

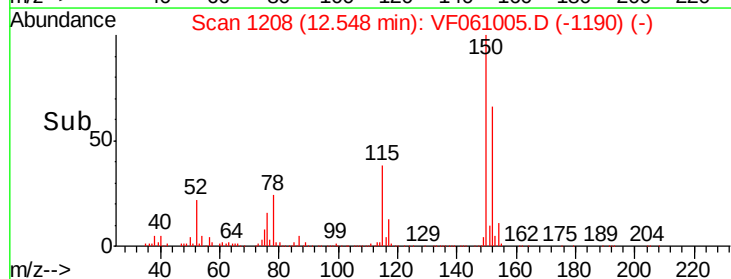
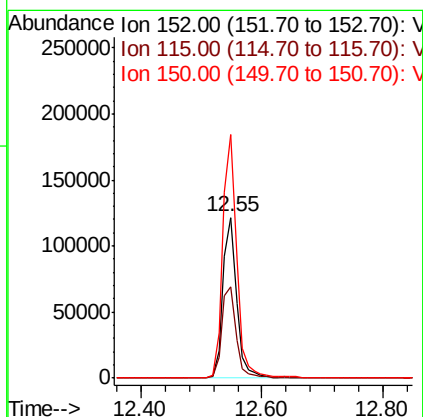
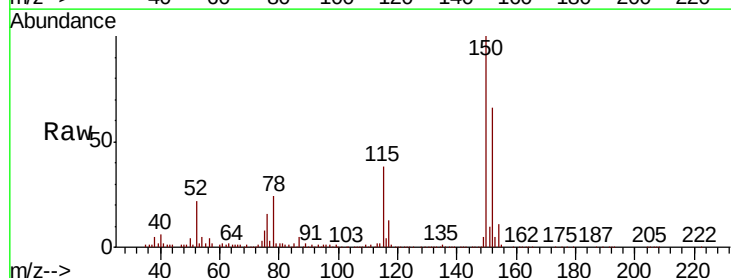
Instrument :
MSVOA_F
ClientSampleId :
RBR-200031RE

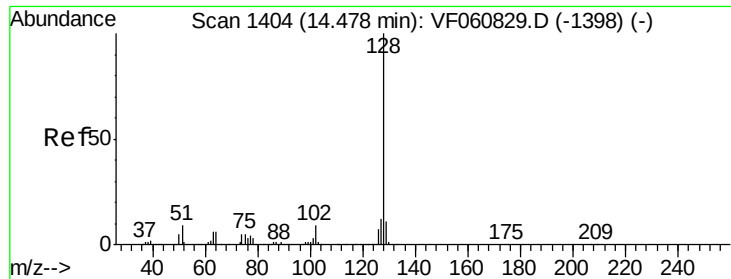
Tot Ion:117 Resp: 369226
Ion Ratio Lower Upper
117 100
82 60.4 46.6 69.8
119 31.9 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1208
Delta R.T. -0.03 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

Tgt Ion:152 Resp: 193939
Ion Ratio Lower Upper
152 100
115 57.1 30.1 90.5
150 151.5 0.0 327.6

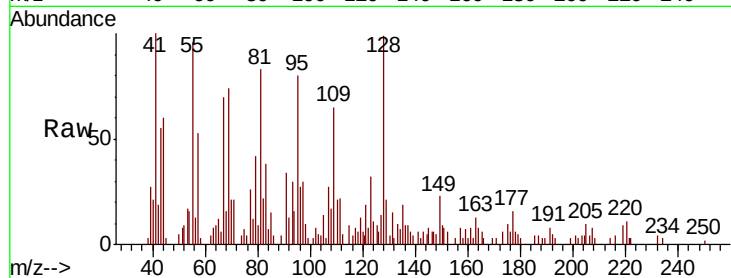




#95
Naphthalene
Concen: Below Cal
RT: 14.45 min Scan# 1401
Delta R.T. -0.03 min
Lab File: VF061005.D
Acq: 12 Dec 2018 19:42

Instrument :
MSVOA_F
ClientSampleId :
RBR-200031RE

Tot Ion:128 Resp: 5447
Ion Ratio Lower Upper
128 100
127 14.2 9.9 14.9
129 20.9 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

