

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120618\
 Data File : VF060930.D
 Acq On : 6 Dec 2018 21:27
 Operator : VA/AP
 Sample : J6214-27
 Misc : 3.88g/5mL/MSVOA-F/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 07 00:25:24 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

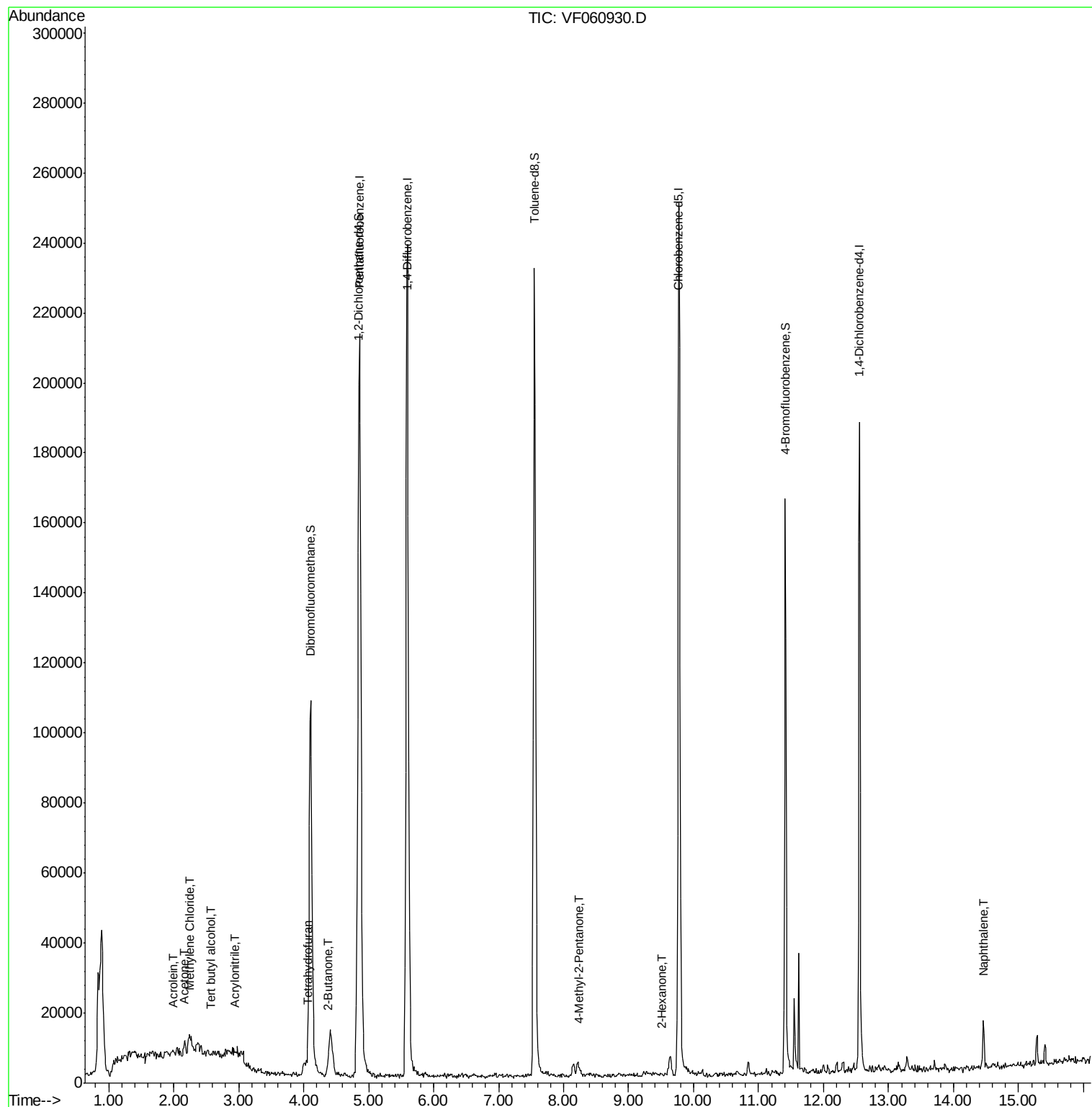
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.86	168	147224	50.00	ug/l	-0.05
34) 1,4-Difluorobenzene	5.60	114	260444	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	172849	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	45882	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.84	65	88930	51.28	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	102.56%	
35) Dibromofluoromethane	4.11	113	100865	48.82	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	97.64%	
50) Toluene-d8	7.55	98	191689	31.50	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	63.00%	
62) 4-Bromofluorobenzene	11.41	95	61005	22.05	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	44.10%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.57	59	80	1.125	ug/l #	1
13) Acrolein	2.01	56	495	7.349	ug/l	87
15) Acrylonitrile	2.95	53	369	2.315	ug/l #	14
16) Acetone	2.15	43	410	1.282	ug/l	94
18) Methyl Acetate	2.31	43	811	Below Cal		98
20) Methylene Chloride	2.26	84	4070	3.469	ug/l #	88
25) 2-Butanone	4.37	43	1001	1.810	ug/l #	53
29) Tetrahydrofuran	4.05	42	472	2.013	ug/l #	37
41) Methacrylonitrile	4.73	41	62	Below Cal	#	16
43) Isopropyl Acetate	6.97	43	616	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.24	43	1180	1.090	ug/l #	38
59) 2-Hexanone	9.52	43	1657	2.182	ug/l #	27
95) Naphthalene	14.46	128	9557	1.530	ug/l	97

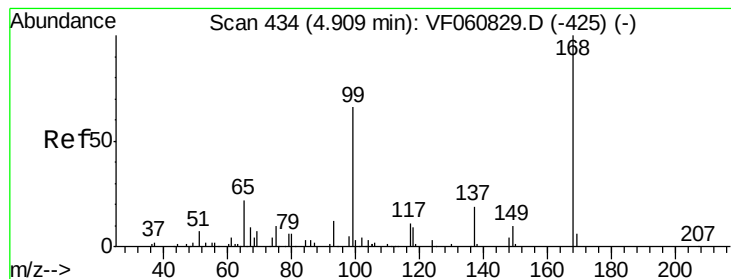
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF060930.D

Acq: 6 Dec 2018 21:27

Instrument :

MSVOA_F

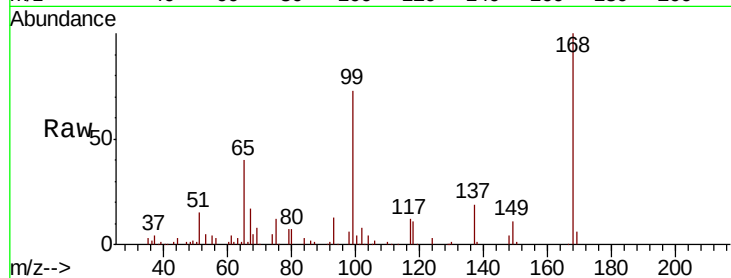
ClientSampleId :

Tot Ion:168 Resp: 147224

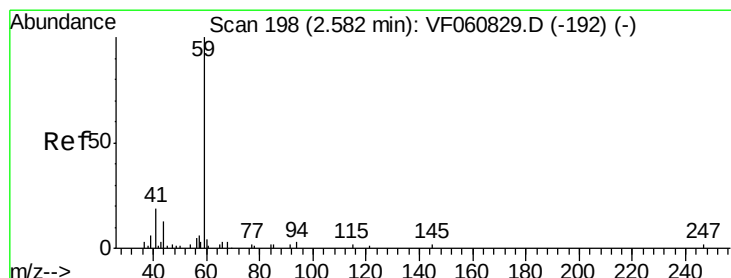
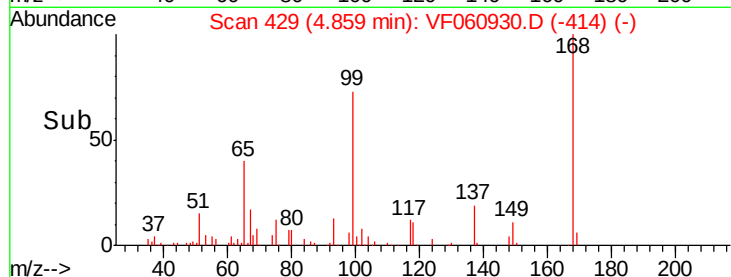
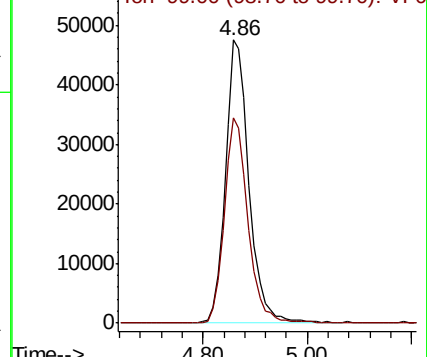
Ion Ratio Lower Upper

168 100

99 72.7 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 1.125 ug/l

RT: 2.57 min Scan# 197

Delta R.T. -0.01 min

Lab File: VF060930.D

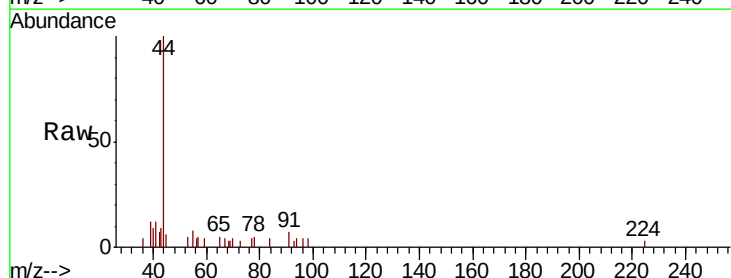
Acq: 6 Dec 2018 21:27

Tgt Ion: 59 Resp: 80

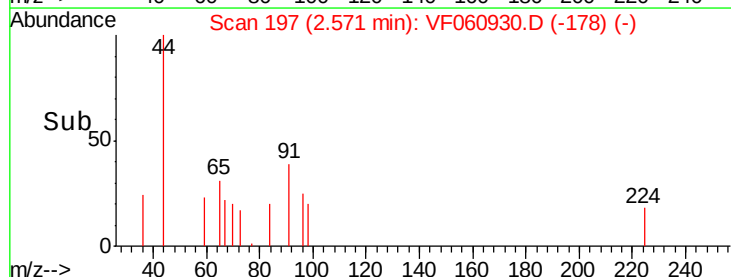
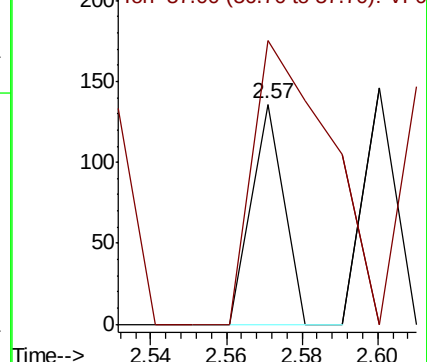
Ion Ratio Lower Upper

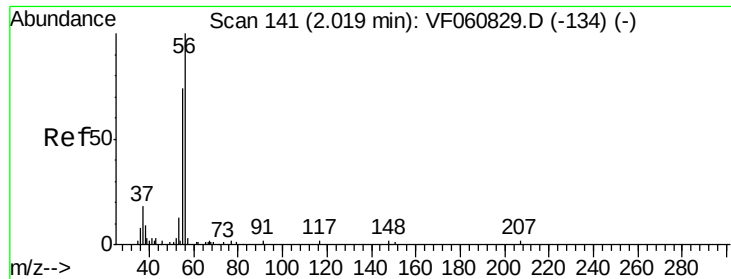
59 100

57 128.7 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 7.349 ug/l

RT: 2.01 min Scan# 140

Delta R.T. -0.01 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

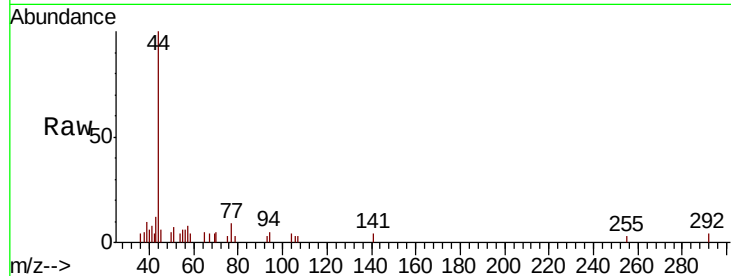
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 56 Resp: 495

Ion Ratio Lower Upper

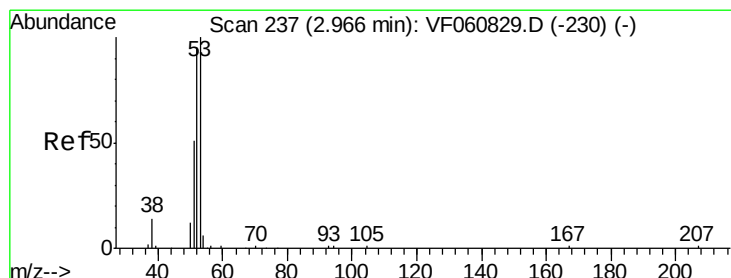
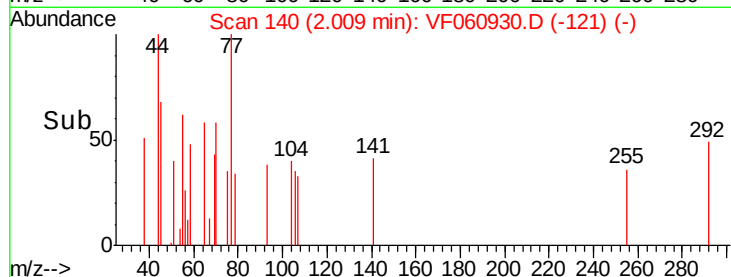
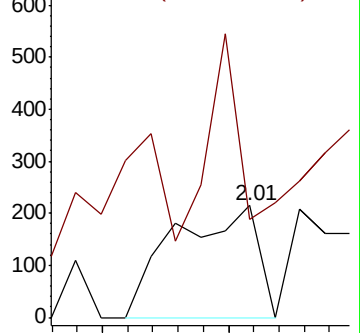
56 100

55 87.9 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: 2.315 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

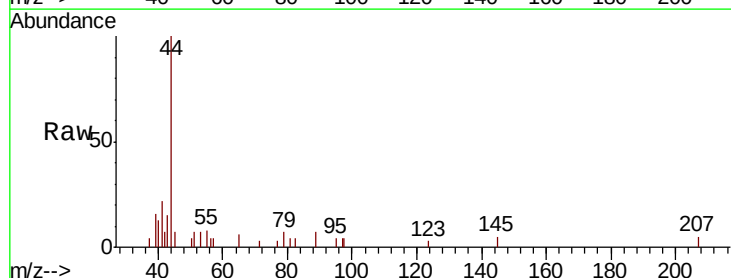
Tgt Ion: 53 Resp: 369

Ion Ratio Lower Upper

53 100

52 0.0 76.5 114.7#

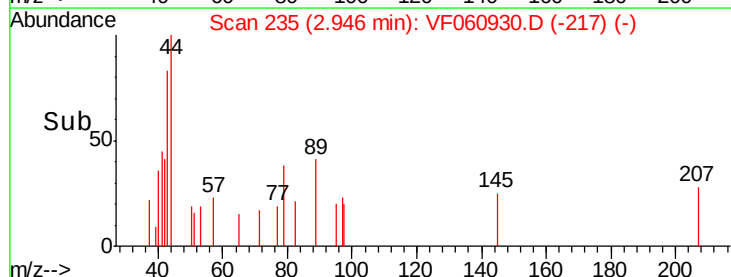
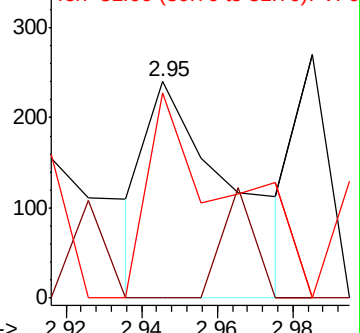
51 94.6 40.7 61.1#

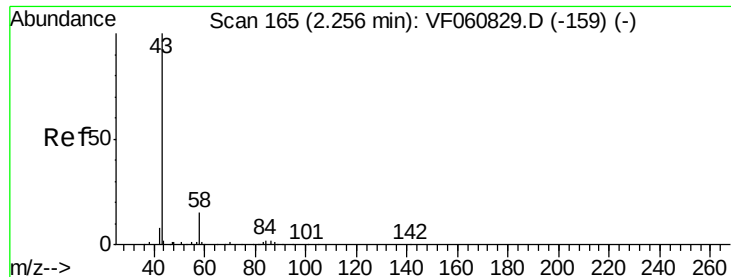


Abundance Ion 53.00 (52.70 to 53.70): VF0

Ion 52.00 (51.70 to 52.70): VF0

Ion 51.00 (50.70 to 51.70): VF0





#16

Acetone

Concen: 1.282 ug/l

RT: 2.15 min Scan# 154

Delta R.T. -0.11 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

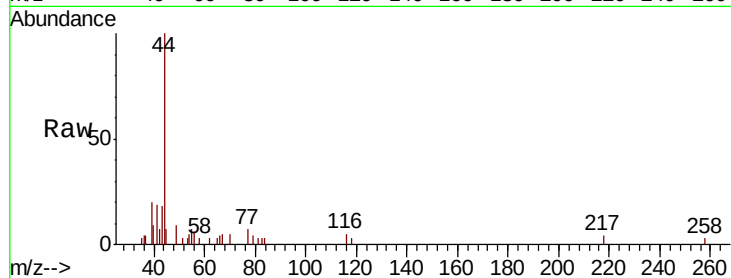
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 410

Ion Ratio Lower Upper

43 100

58 16.9 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

2.15

600

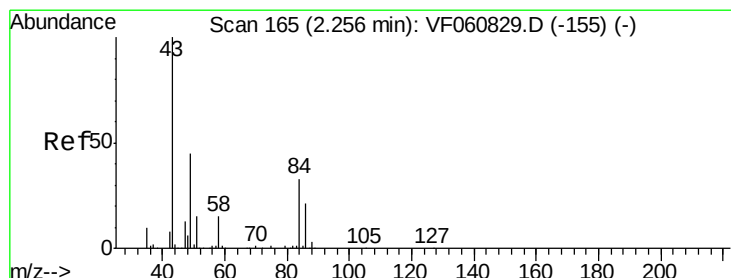
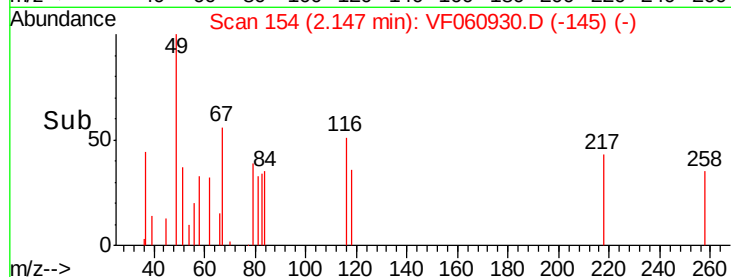
400

200

0

2.14 2.16

Time-->



#20

Methylene Chloride

Concen: 3.469 ug/l

RT: 2.26 min Scan# 165

Delta R.T. -0.00 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

Tgt Ion: 84 Resp: 4070

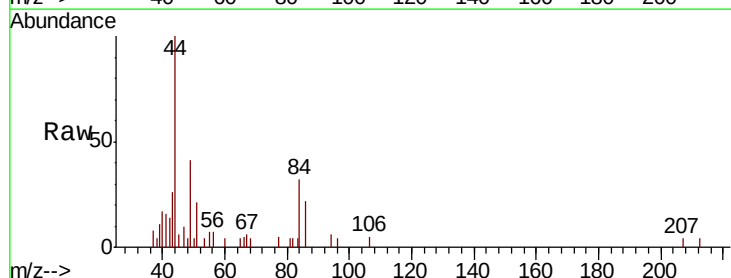
Ion Ratio Lower Upper

84 100

49 127.4 111.3 166.9

51 65.3 38.0 57.0#

86 68.2 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

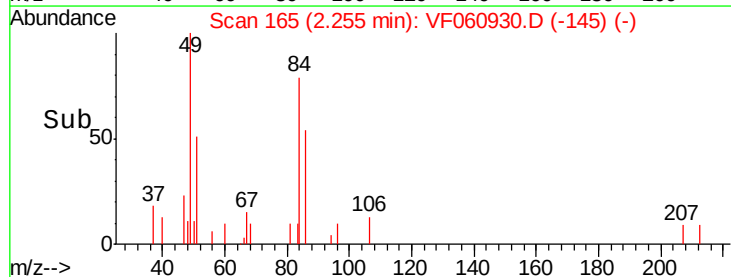
1000

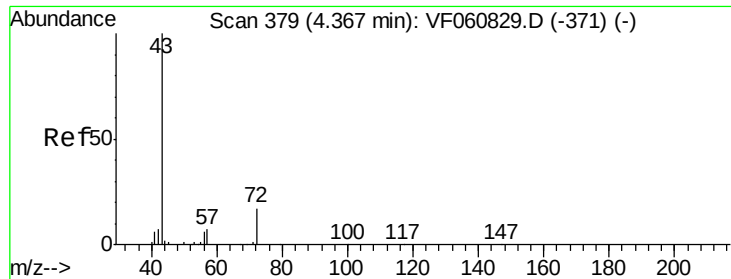
500

0

2.20 2.26 2.30 2.40

Time-->





#25

2-Butanone

Concen: 1.810 ug/l

RT: 4.37 min Scan# 379

Delta R.T. -0.00 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

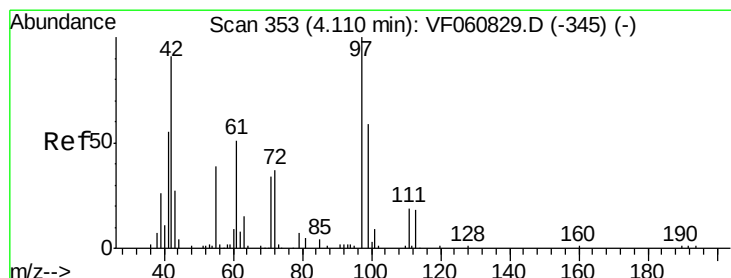
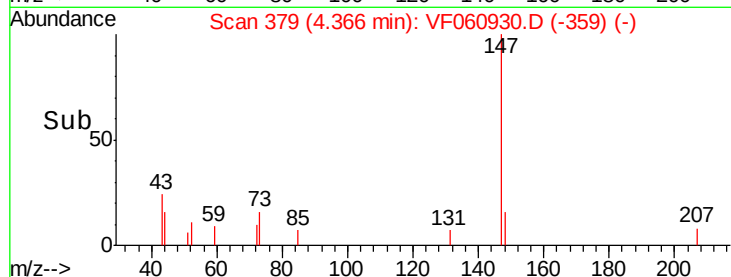
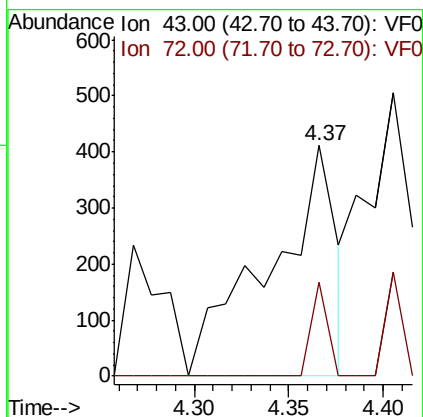
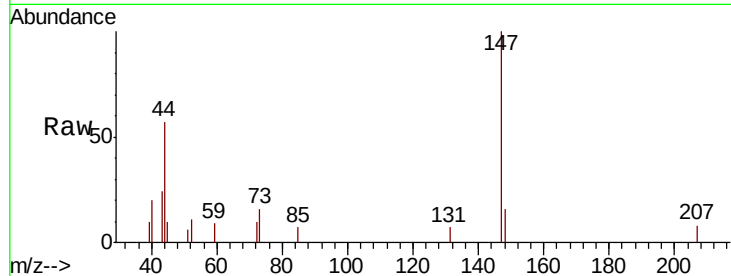
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 1001

Ion Ratio Lower Upper

43 100

72 40.6 15.4 23.2#



#29

Tetrahydrofuran

Concen: 2.013 ug/l

RT: 4.05 min Scan# 347

Delta R.T. -0.06 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

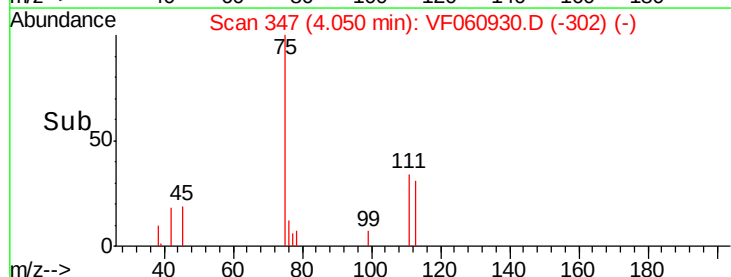
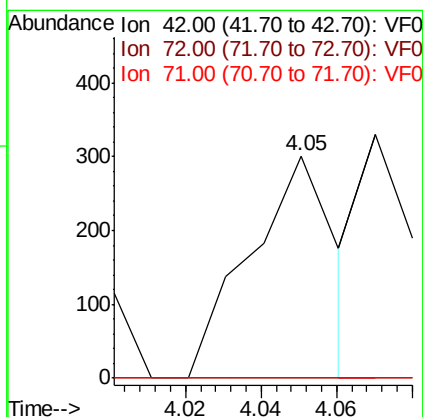
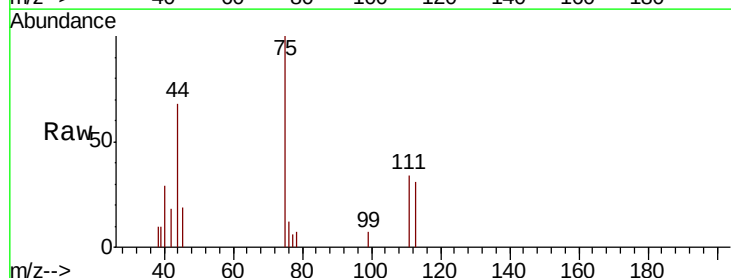
Tgt Ion: 42 Resp: 472

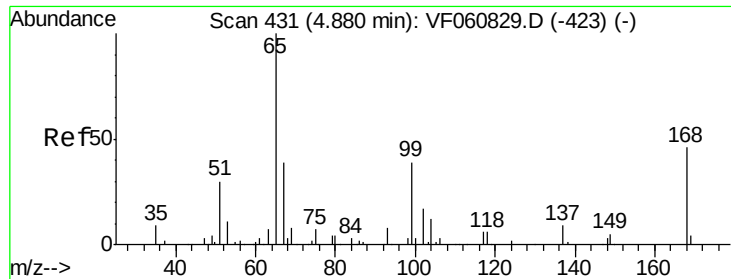
Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

71 0.0 28.7 43.1#

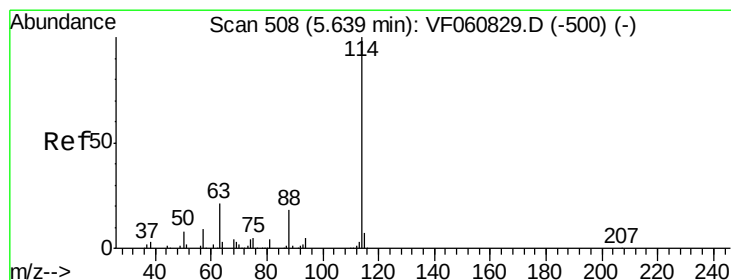
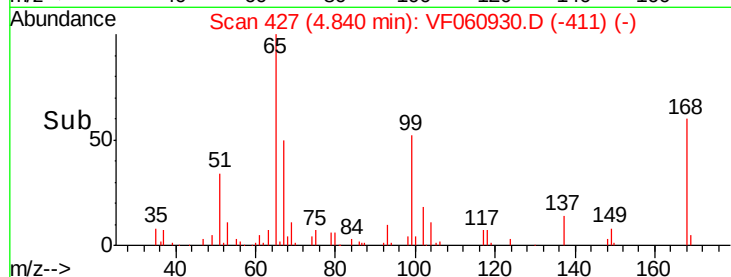
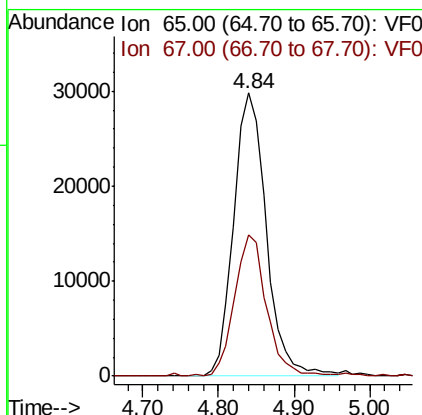
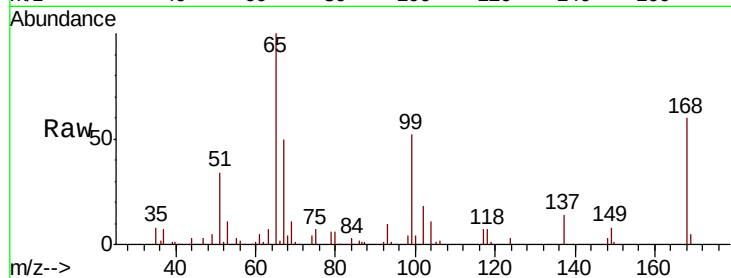




#33
 1,2-Dichloroethane-d4
 Concen: 51.276 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF060930.D
 Acq: 6 Dec 2018 21:27

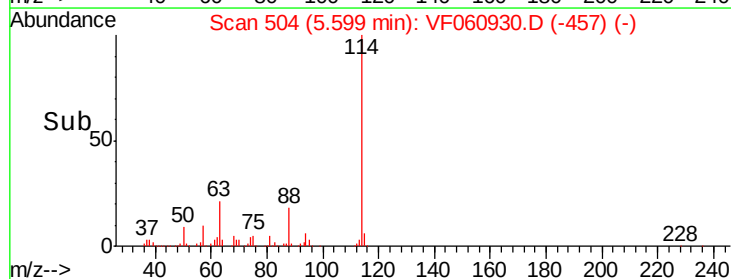
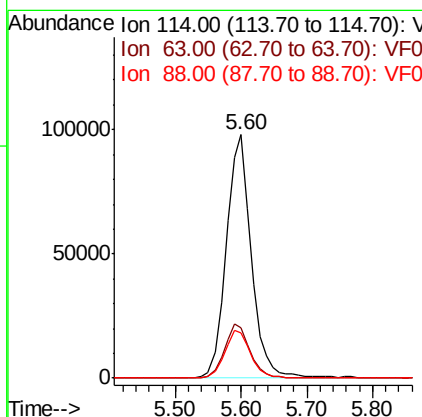
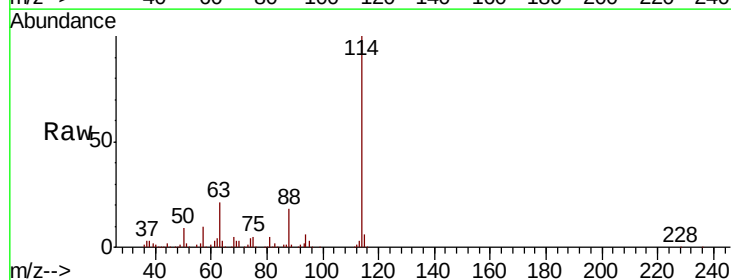
Instrument :
 MSVOA_F
 ClientSampled :

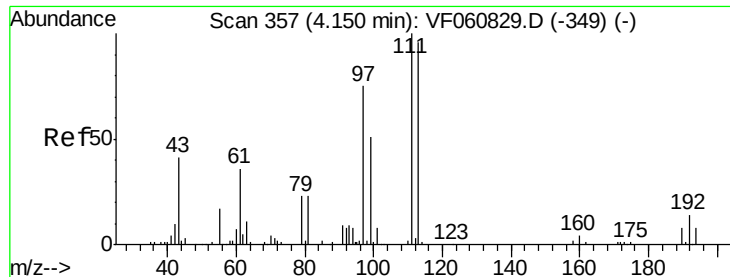
Tot Ion: 65 Resp: 88930
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.60 min Scan# 504
 Delta R.T. -0.04 min
 Lab File: VF060930.D
 Acq: 6 Dec 2018 21:27

Tgt Ion: 114 Resp: 260444
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.6
 88 18.3 0.0 36.6





#35

Dibromofluoromethane

Concen: 48.817 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

Instrument :
MSVOA_F
ClientSampled :

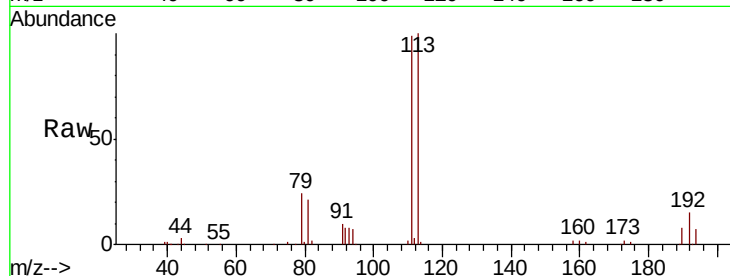
Tot Ion:113 Resp: 100865

Ion Ratio Lower Upper

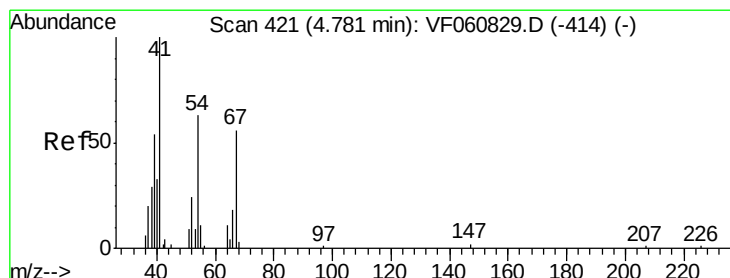
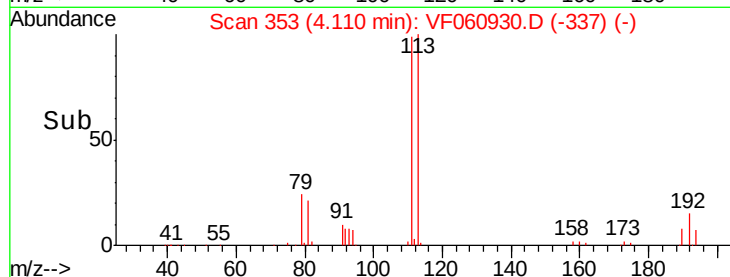
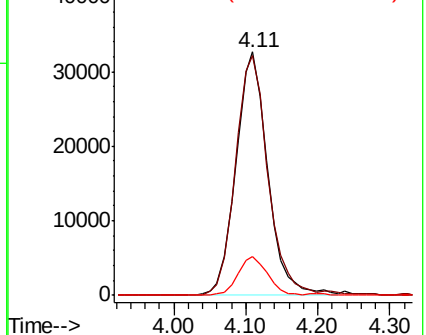
113 100

111 98.7 83.0 124.6

192 16.0 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



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.73 min Scan# 416

Delta R.T. -0.05 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

Tgt Ion: 41 Resp: 62

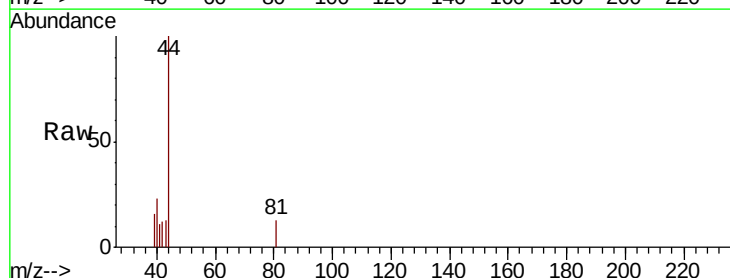
Ion Ratio Lower Upper

41 100

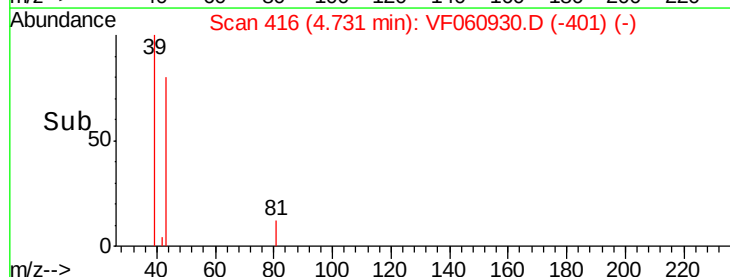
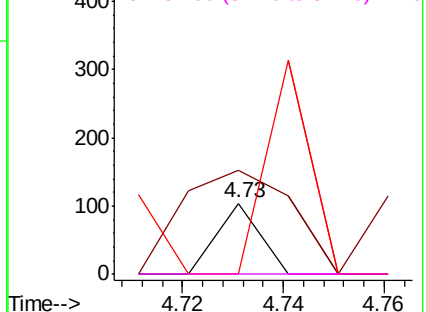
39 146.2 53.0 79.6#

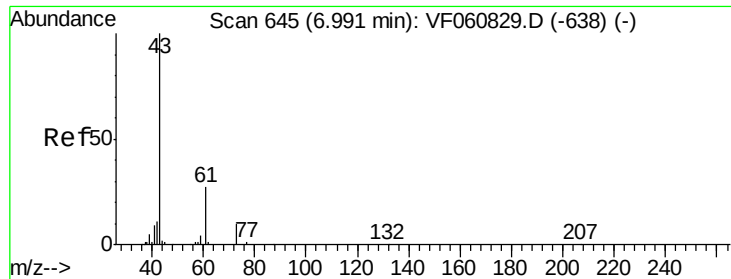
67 0.0 43.8 65.6#

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



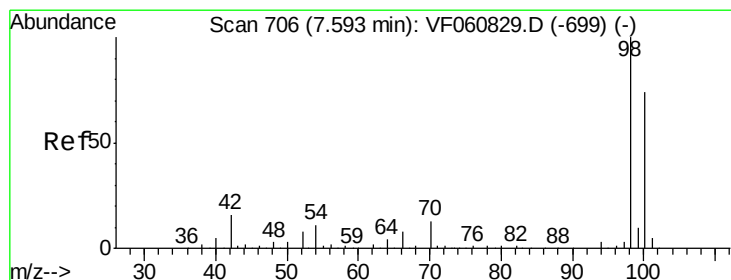
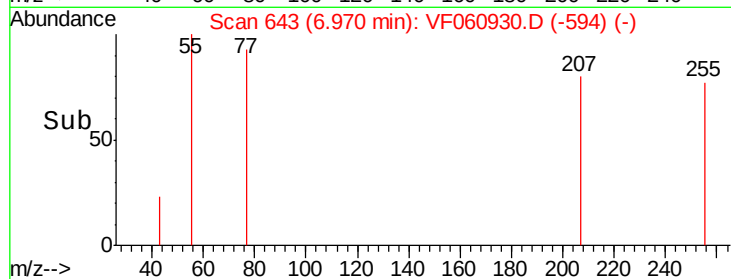
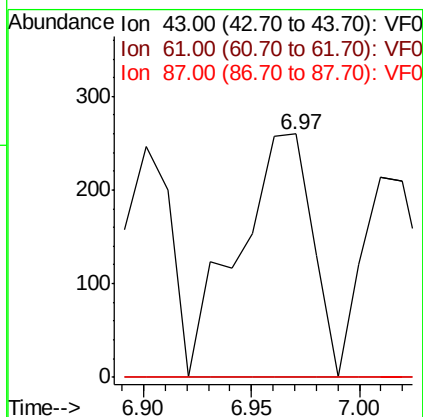
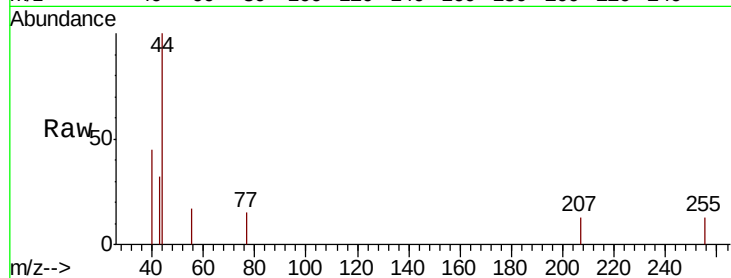


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.97 min Scan# 643
 Delta R.T. -0.02 min
 Lab File: VF060930.D
 Acq: 6 Dec 2018 21:27

Instrument :
 MSVOA_F
 ClientSampleId :

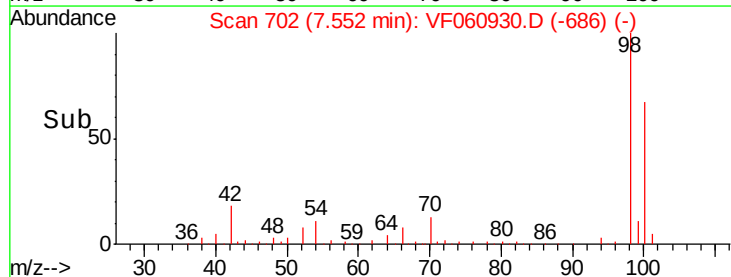
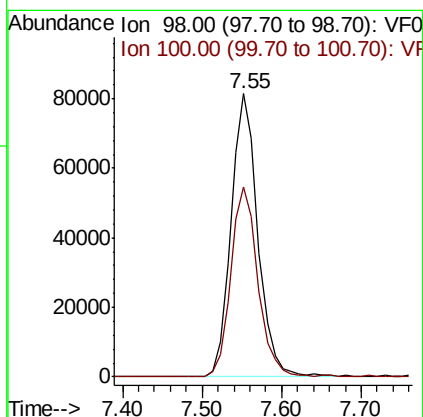
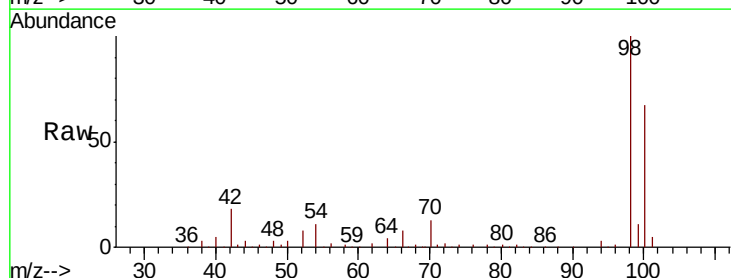
Tot Ion: 43 Resp: 616
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#

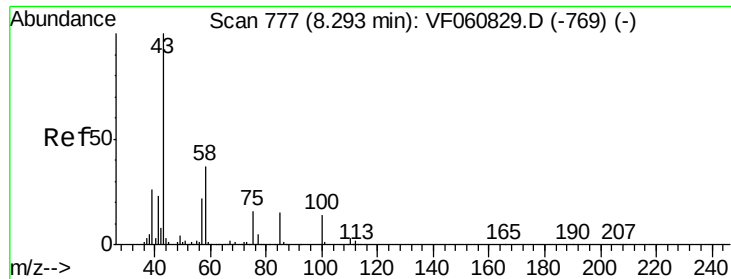


#50

Toluene-d8
 Concen: 31.495 ug/l
 RT: 7.55 min Scan# 702
 Delta R.T. -0.04 min
 Lab File: VF060930.D
 Acq: 6 Dec 2018 21:27

Tgt Ion: 98 Resp: 191689
 Ion Ratio Lower Upper
 98 100
 100 67.1 59.3 88.9





#51

4-Methyl-2-Pentanone

Concen: 1.090 ug/l

RT: 8.24 min Scan# 772

Delta R.T. -0.05 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

Instrument :

MSVOA_F

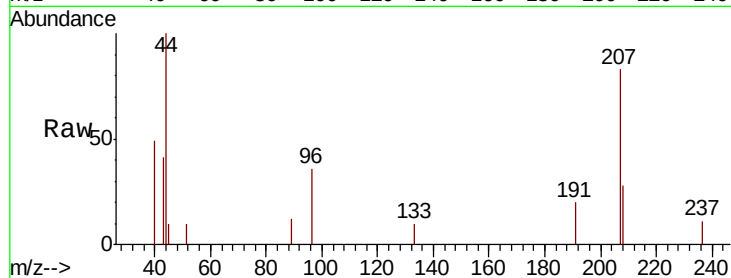
ClientSampleId :

Tot Ion: 43 Resp: 1180

Ion Ratio Lower Upper

43 100

58 0.0 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.24

400

300

200

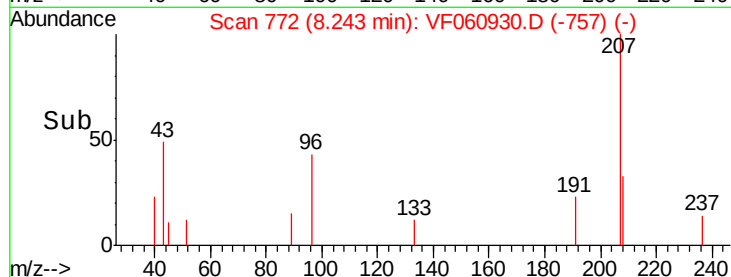
100

0

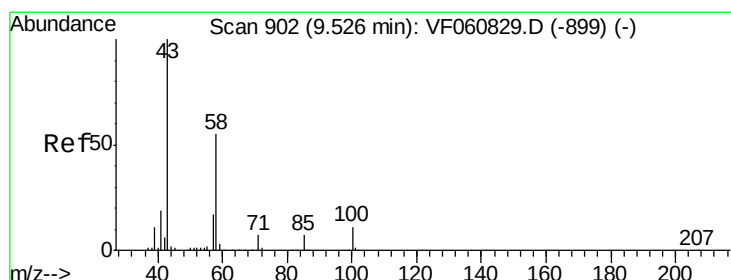
8.20

8.25

8.30



Time-->



#59

2-Hexanone

Concen: 2.182 ug/l

RT: 9.52 min Scan# 901

Delta R.T. -0.01 min

Lab File: VF060930.D

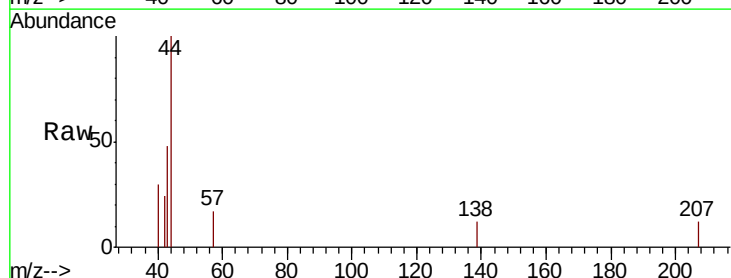
Acq: 6 Dec 2018 21:27

Tgt Ion: 43 Resp: 1657

Ion Ratio Lower Upper

43 100

58 0.0 25.6 76.6#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

600

500

400

300

200

100

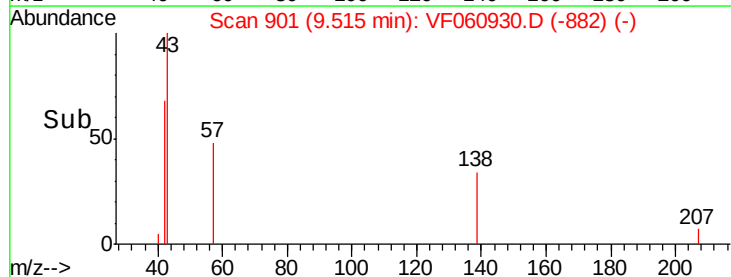
0

9.40

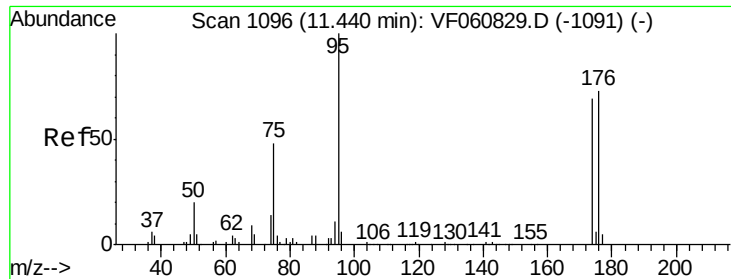
9.45

9.50

9.55



Time-->



#62

4-Bromofluorobenzene

Concen: 22.054 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

Instrument :

MSVOA_F

ClientSampled :

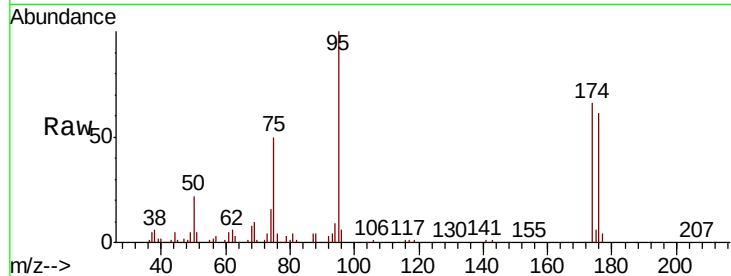
Tot Ion: 95 Resp: 61005

Ion Ratio Lower Upper

95 100

174 65.5 0.0 138.2

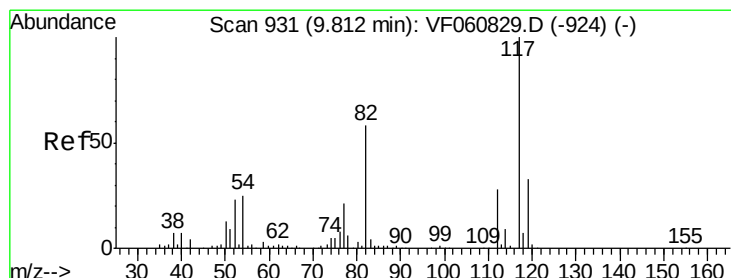
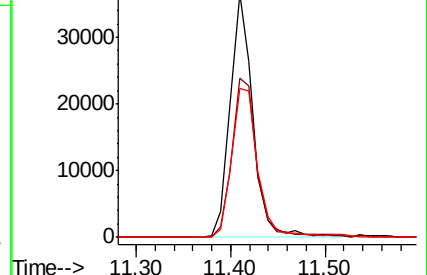
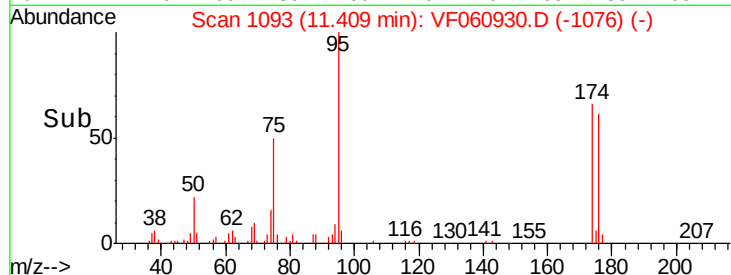
176 61.2 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF060930.D (-1091) (-)

Ion 174.00 (173.70 to 174.70): VF060930.D (-1091) (-)

Ion 176.00 (175.70 to 176.70): VF060930.D (-1091) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.77 min Scan# 927

Delta R.T. -0.04 min

Lab File: VF060930.D

Acq: 6 Dec 2018 21:27

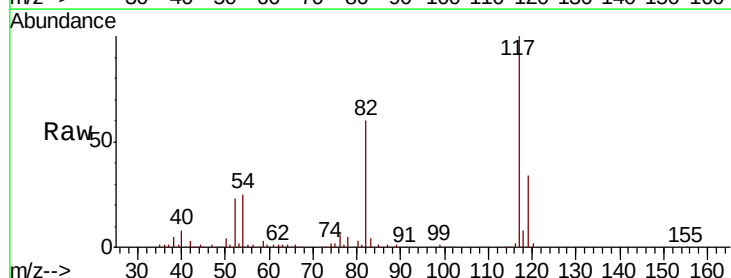
Tgt Ion: 117 Resp: 172849

Ion Ratio Lower Upper

117 100

82 59.9 46.6 69.8

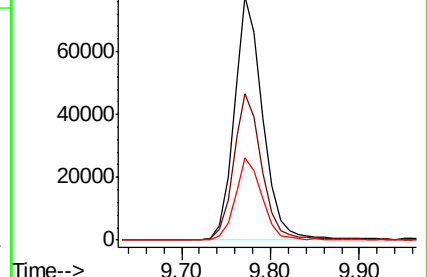
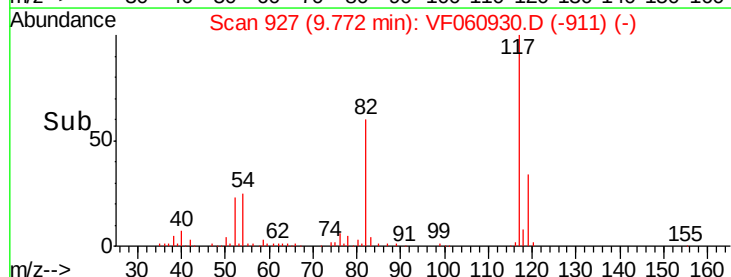
119 34.0 26.4 39.6

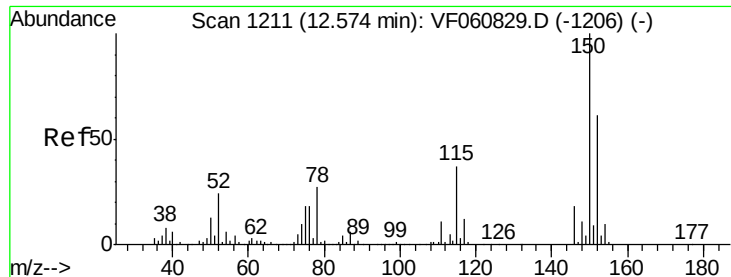


Abundance Ion 117.00 (116.70 to 117.70): VF060930.D (-911) (-)

Ion 82.00 (81.70 to 82.70): VF060930.D (-911) (-)

Ion 119.00 (118.70 to 119.70): VF060930.D (-911) (-)

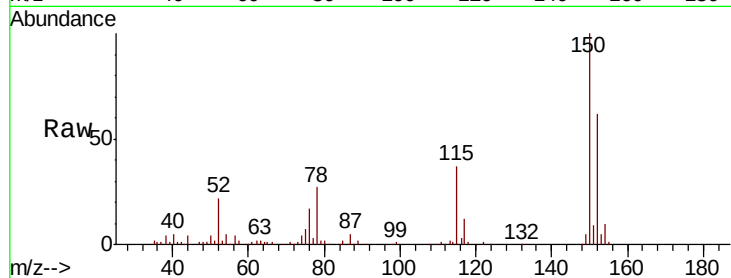




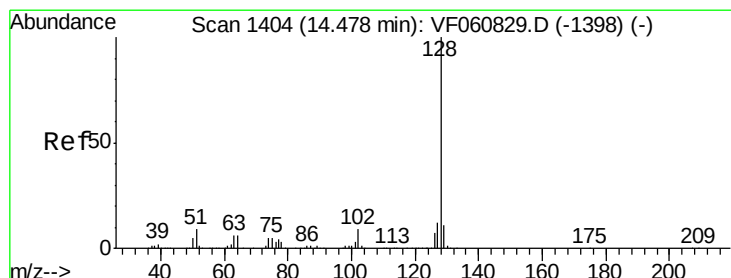
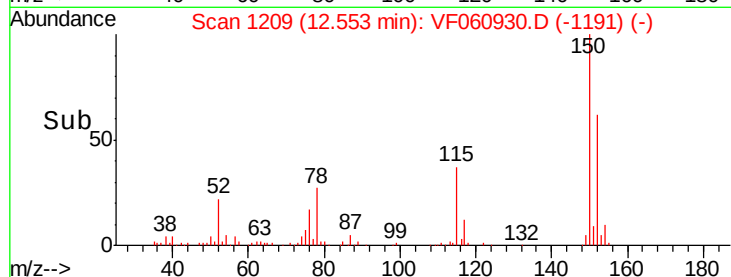
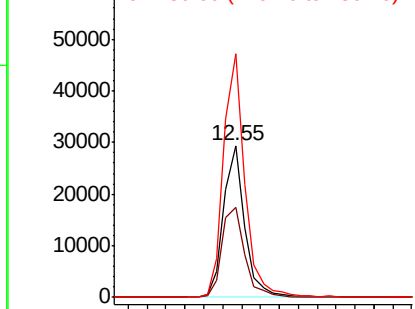
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.55 min Scan# 1209
 Delta R.T. -0.02 min
 Lab File: VF060930.D
 Acq: 6 Dec 2018 21:27

Instrument :
 MSVOA_F
 ClientSampleId :

Tot Ion:152 Resp: 45882
 Ion Ratio Lower Upper
 152 100
 115 59.0 30.1 90.5
 150 160.6 0.0 327.6

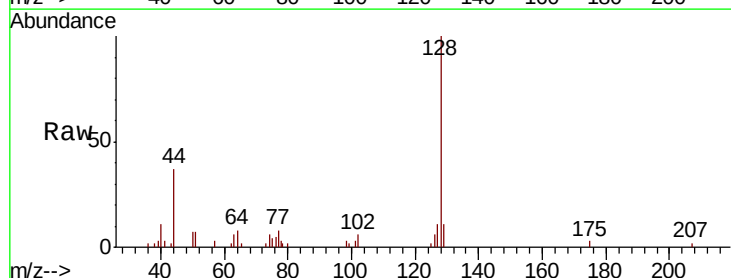


Abundance Ion 152.00 (151.70 to 152.70): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 150.00 (149.70 to 150.70): V



#95
 Naphthalene
 Concen: 1.530 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.02 min
 Lab File: VF060930.D
 Acq: 6 Dec 2018 21:27

Tgt Ion:128 Resp: 9557
 Ion Ratio Lower Upper
 128 100
 127 10.7 9.9 14.9
 129 10.6 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

