

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF120618\
 Data File : VF060929.D
 Acq On : 6 Dec 2018 20:58
 Operator : VA/AP
 Sample : J6214-25
 Misc : 4.67g/5mL/MSVOA-F/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :

Quant Time: Dec 07 00:25:11 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	4.87	168	106777	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	176514	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.77	117	147878	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.55	152	49130	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	55703	44.28	ug/l	-0.03
Spiked Amount			Recovery	=	88.56%	
35) Dibromofluoromethane	4.11	113	65470	46.75	ug/l	-0.04
Spiked Amount			Recovery	=	93.50%	
50) Toluene-d8	7.55	98	146020	35.40	ug/l	-0.04
Spiked Amount			Recovery	=	70.80%	
62) 4-Bromofluorobenzene	11.41	95	56924	30.36	ug/l	-0.03
Spiked Amount			Recovery	=	60.72%	

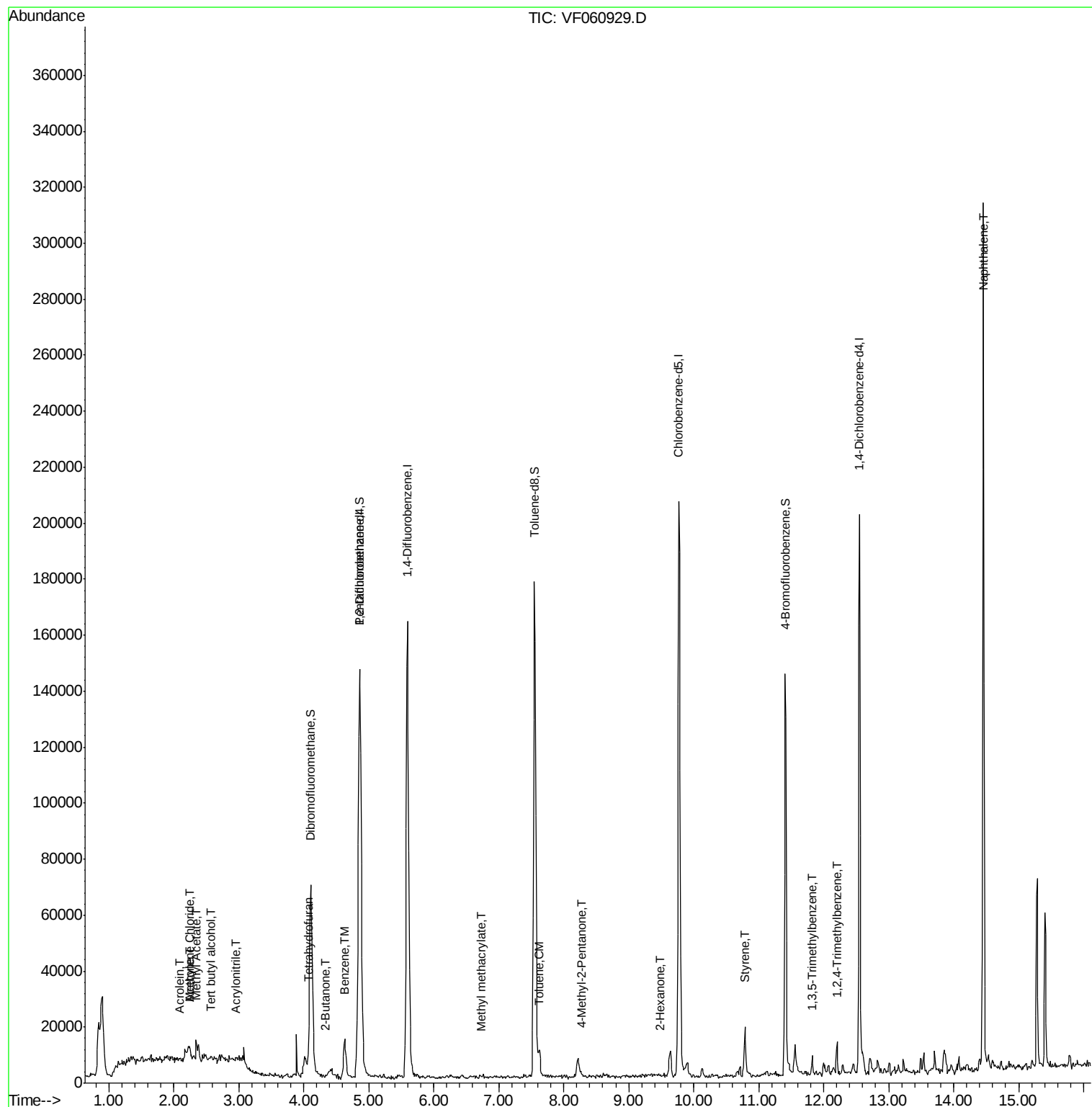
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.58	59	92	1.784	ug/l #	1
13) Acrolein	2.09	56	294	6.018	ug/l	93
15) Acrylonitrile	2.96	53	196	1.695	ug/l #	59
16) Acetone	2.24	43	3349	14.438	ug/l	98
18) Methyl Acetate	2.36	43	2309	4.429	ug/l #	83
20) Methylene Chloride	2.24	84	3089	3.630	ug/l #	71
25) 2-Butanone	4.34	43	1203	2.998	ug/l #	66
29) Tetrahydrofuran	4.07	42	1100	6.468	ug/l #	47
40) Benzene	4.63	78	15670	3.623	ug/l	99
41) Methacrylonitrile	4.74	41	269	Below Cal	#	52
43) Isopropyl Acetate	6.94	43	489	Below Cal	#	49
48) Methyl methacrylate	6.73	41	942	1.308	ug/l #	59
51) 4-Methyl-2-Pentanone	8.28	43	1732	2.361	ug/l #	38
52) Toluene	7.62	92	4125	1.358	ug/l	84
59) 2-Hexanone	9.49	43	1074	2.087	ug/l	68
70) Styrene	10.79	104	9279	3.151	ug/l	96
80) 1,3,5-Trimethylbenzene	11.82	105	3512	1.114	ug/l	79
84) 1,2,4-Trimethylbenzene	12.21	105	4690	1.491	ug/l	86
95) Naphthalene	14.46	128	213212	106.488	ug/l	97

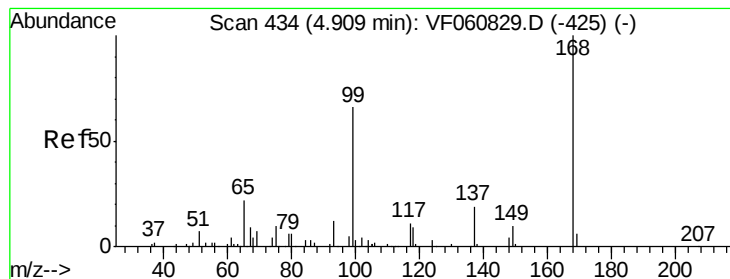
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :

MSVOA_F

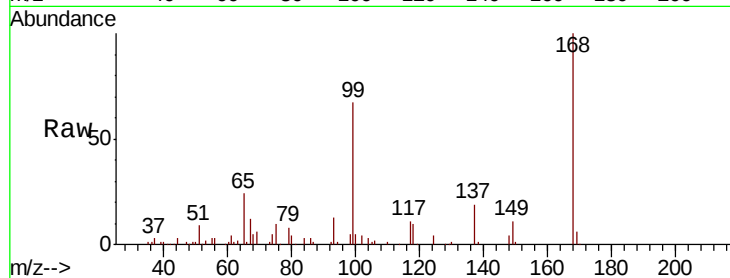
ClientSampleId :

Tot Ion:168 Resp: 106777

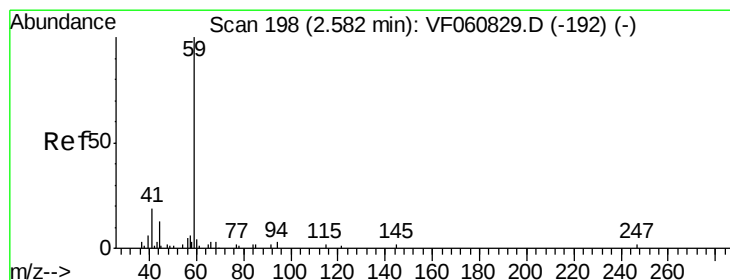
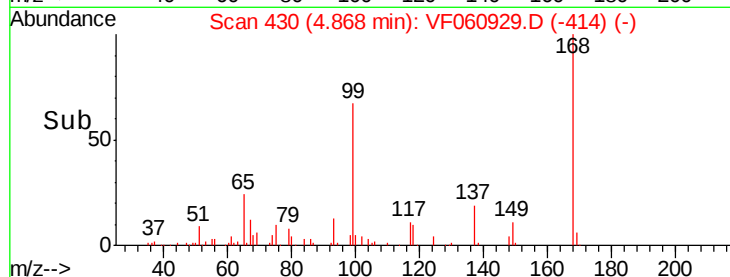
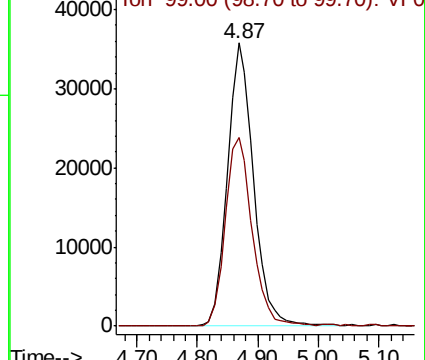
Ion Ratio Lower Upper

168 100

99 66.6 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0



#11

Tert butyl alcohol

Concen: 1.784 ug/l

RT: 2.58 min Scan# 198

Delta R.T. -0.00 min

Lab File: VF060929.D

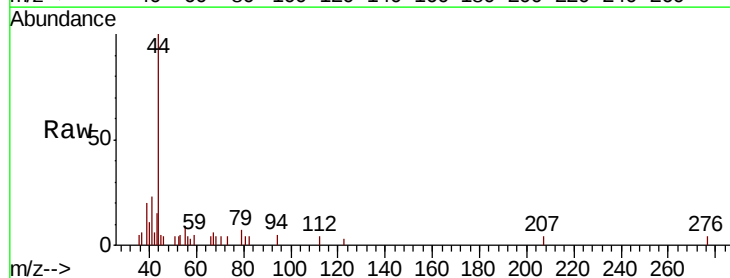
Acq: 6 Dec 2018 20:58

Tgt Ion: 59 Resp: 92

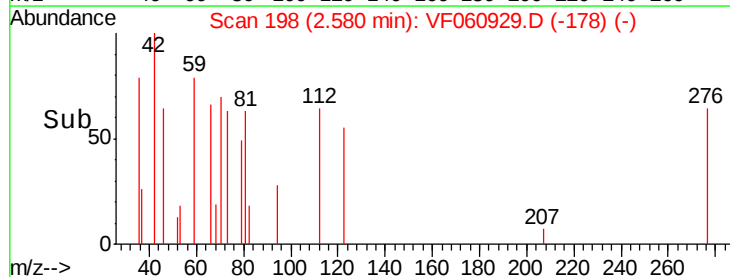
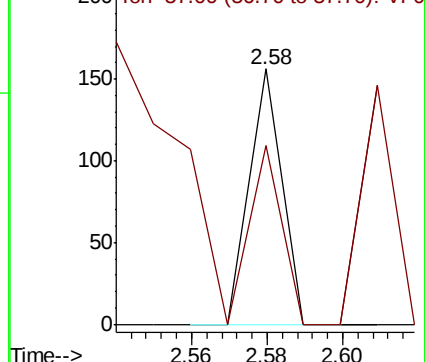
Ion Ratio Lower Upper

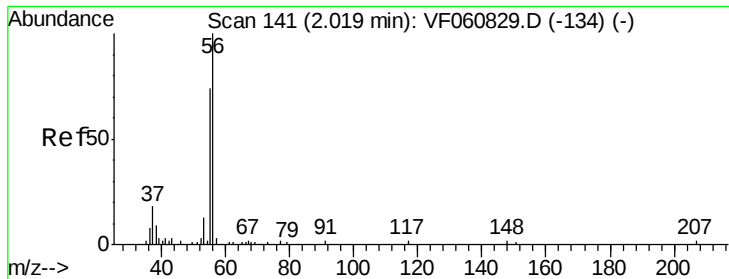
59 100

57 69.9 12.7 19.1#



Abundance Ion 59.00 (58.70 to 59.70): VF0





#13

Acrolein

Concen: 6.018 ug/l

RT: 2.09 min Scan# 148

Delta R.T. 0.07 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :

MSVOA_F

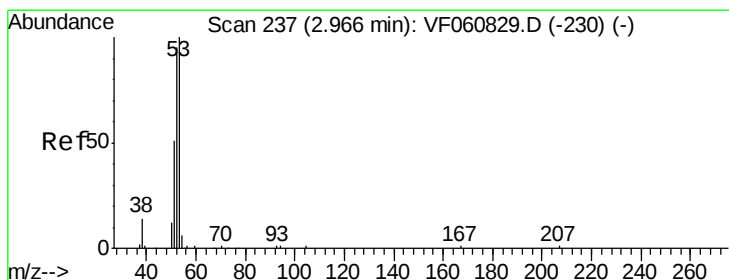
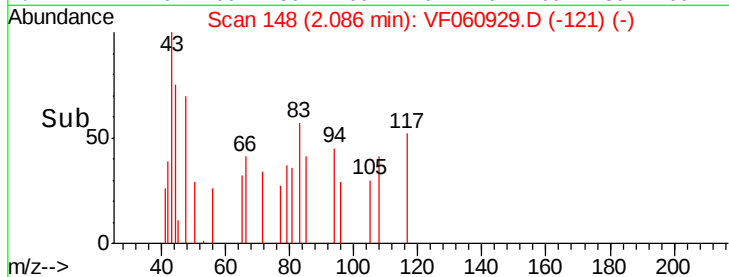
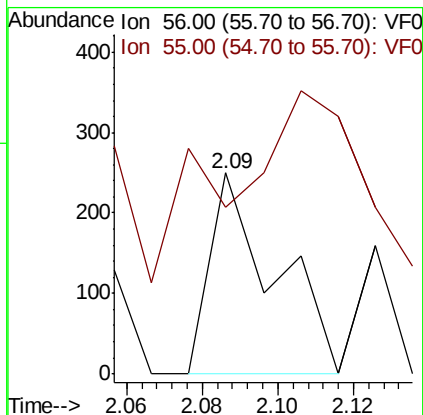
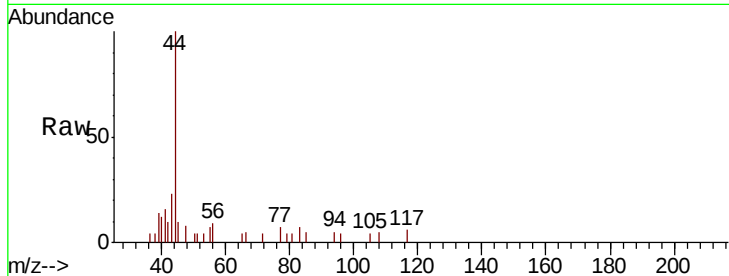
ClientSampleId :

Tot Ion: 56 Resp: 294

Ion Ratio Lower Upper

56 100

55 82.8 61.2 91.8



#15

Acrylonitrile

Concen: 1.695 ug/l

RT: 2.96 min Scan# 237

Delta R.T. -0.00 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

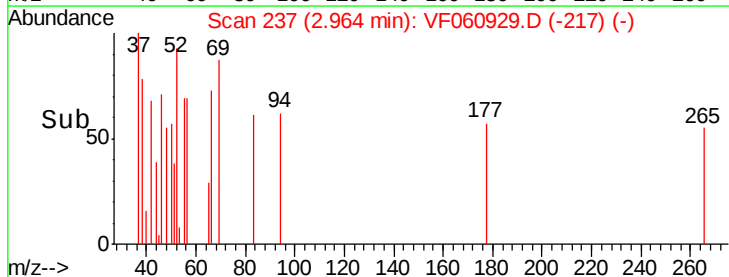
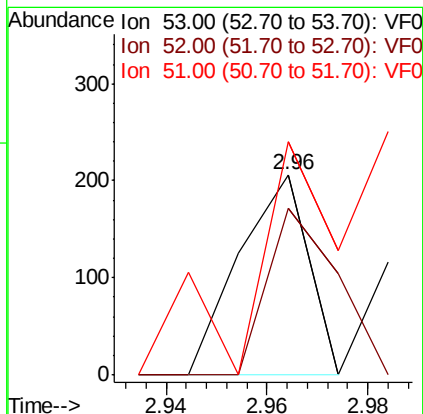
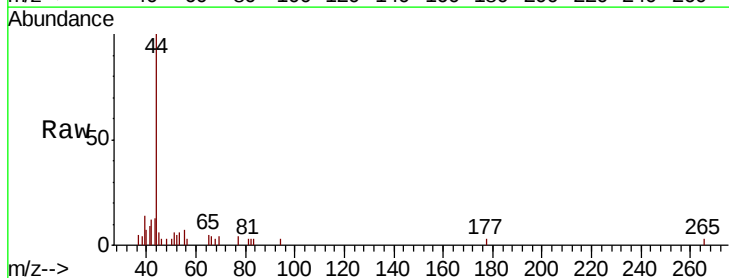
Tgt Ion: 53 Resp: 196

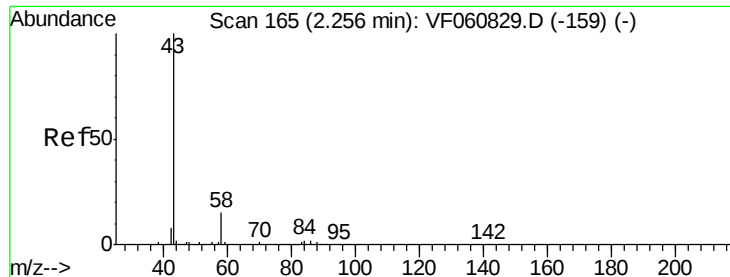
Ion Ratio Lower Upper

53 100

52 83.0 76.5 114.7

51 116.5 40.7 61.1#





#16

Acetone

Concen: 14.438 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

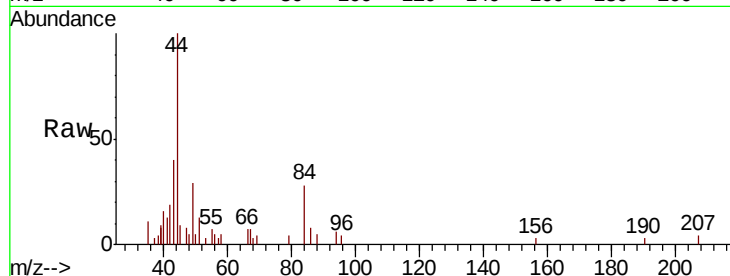
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 43 Resp: 3349

Ion Ratio Lower Upper

43 100

58 13.5 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

1500

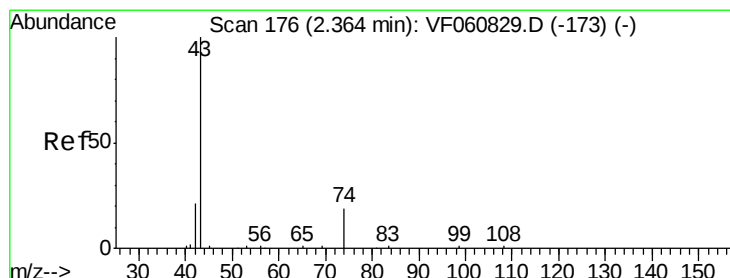
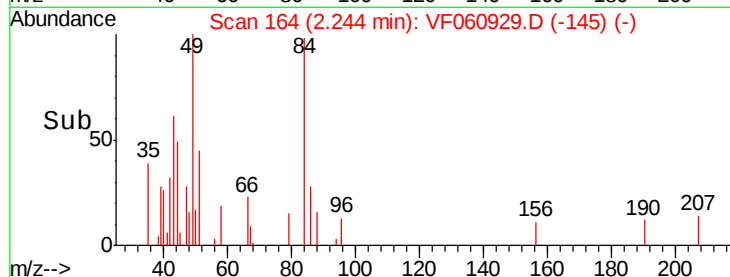
1000

500

0

2.10 2.20 2.30

Time-->



#18

Methyl Acetate

Concen: 4.429 ug/l

RT: 2.36 min Scan# 176

Delta R.T. -0.00 min

Lab File: VF060929.D

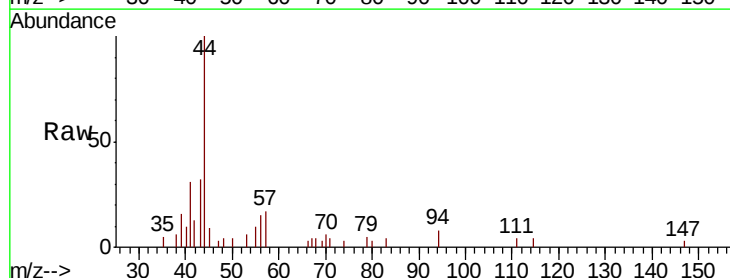
Acq: 6 Dec 2018 20:58

Tgt Ion: 43 Resp: 2309

Ion Ratio Lower Upper

43 100

74 9.3 13.3 19.9#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 74.00 (73.70 to 74.70): VF0

1200

1000

800

600

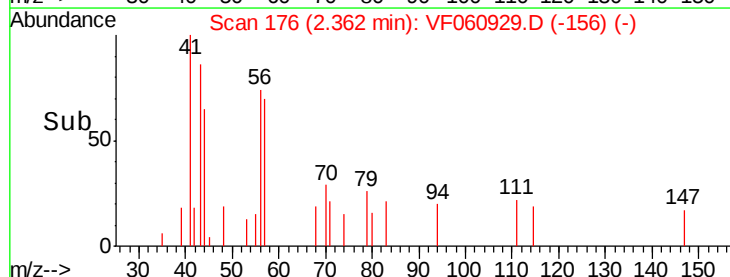
400

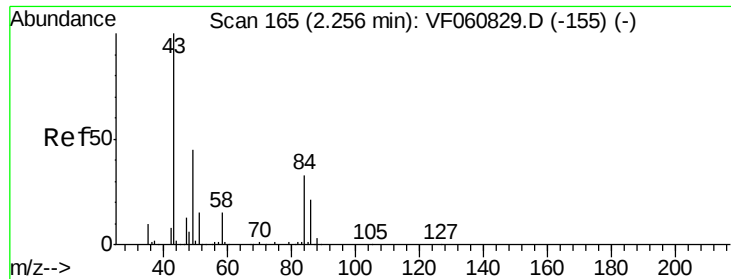
200

0

2.30 2.35 2.40 2.45

Time-->





#20

Methvlene Chloride

Concen: 3.630 ug/l

RT: 2.24 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 84 Resp: 3089

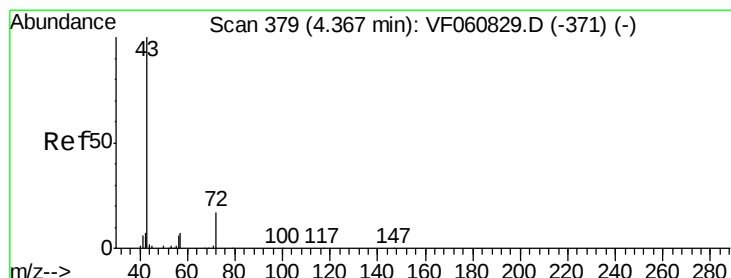
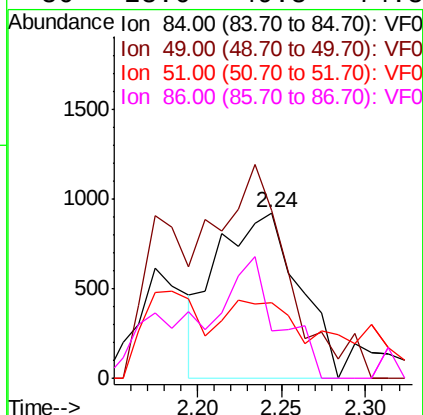
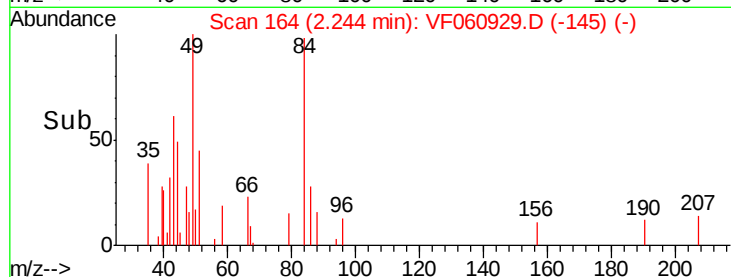
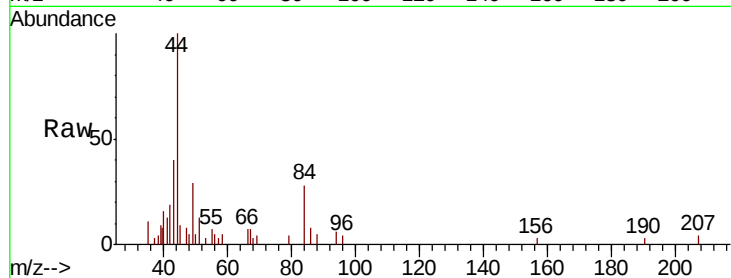
Ion Ratio Lower Upper

84 100

49 101.7 111.3 166.9#

51 45.5 38.0 57.0

86 28.6 49.8 74.8#



#25

2-Butanone

Concen: 2.998 ug/l

RT: 4.34 min Scan# 376

Delta R.T. -0.03 min

Lab File: VF060929.D

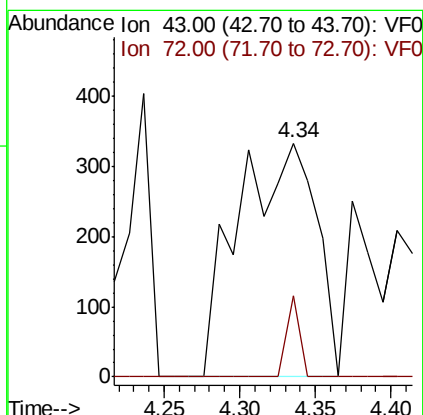
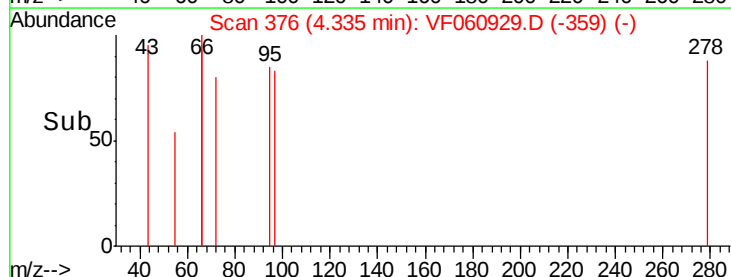
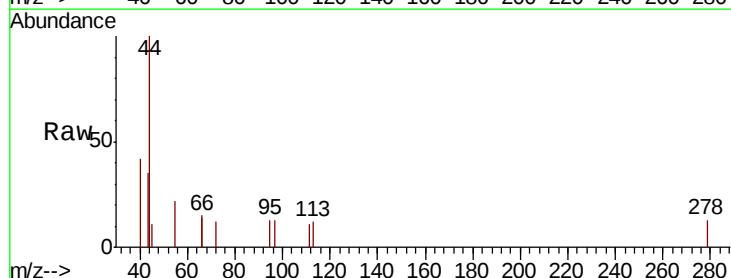
Acq: 6 Dec 2018 20:58

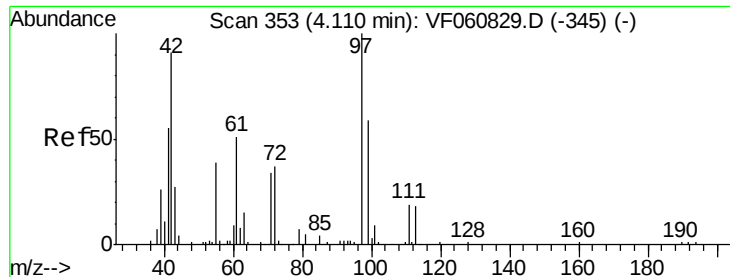
Tgt Ion: 43 Resp: 1203

Ion Ratio Lower Upper

43 100

72 34.8 15.4 23.2#





#29

Tetrahydrofuran

Concen: 6.468 ug/l

RT: 4.07 min Scan# 349

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

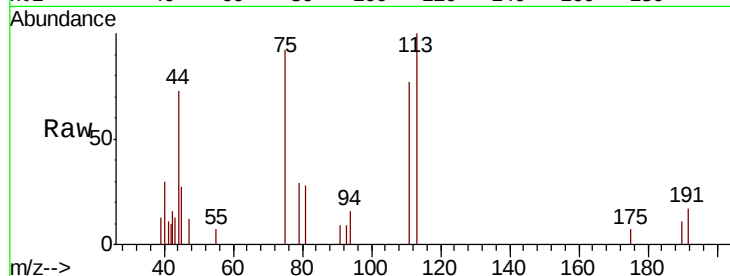
Tot Ion: 42 Resp: 1100

Ion Ratio Lower Upper

42 100

72 0.0 31.9 47.9#

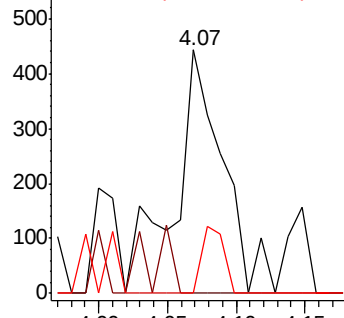
71 12.4 28.7 43.1#



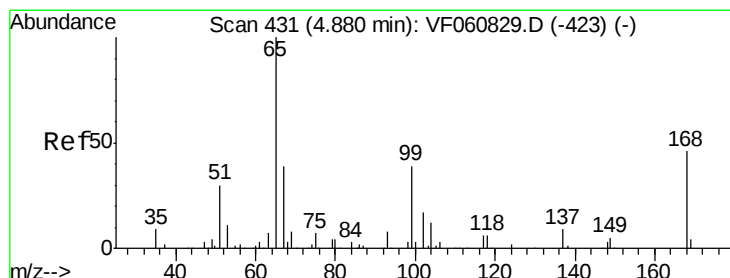
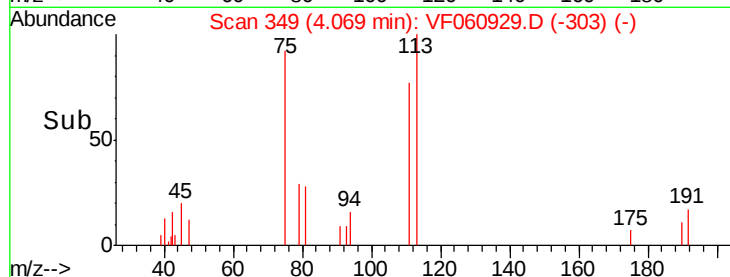
Abundance Ion 42.00 (41.70 to 42.70): VF0

Ion 72.00 (71.70 to 72.70): VF0

Ion 71.00 (70.70 to 71.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 44.284 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060929.D

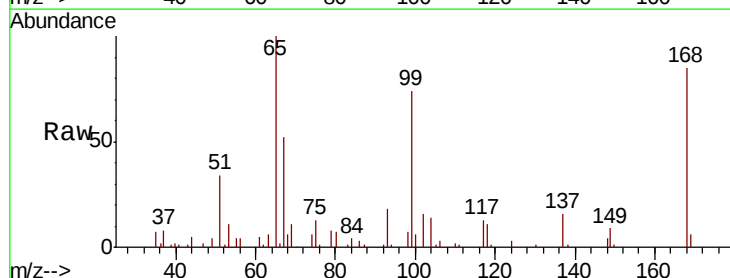
Acq: 6 Dec 2018 20:58

Tgt Ion: 65 Resp: 55703

Ion Ratio Lower Upper

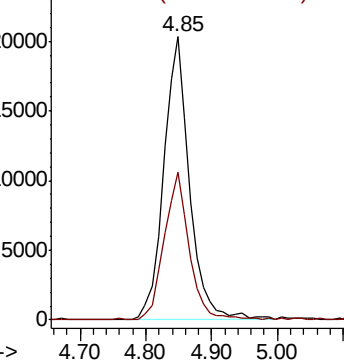
65 100

67 52.0 0.0 96.4

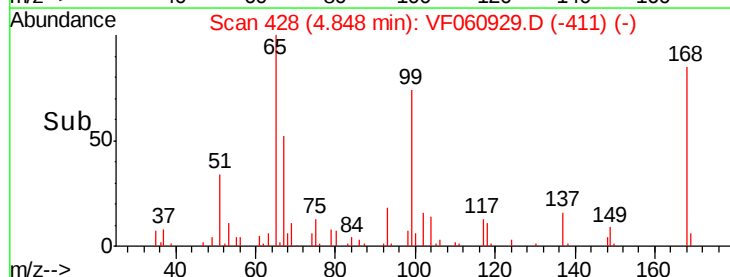


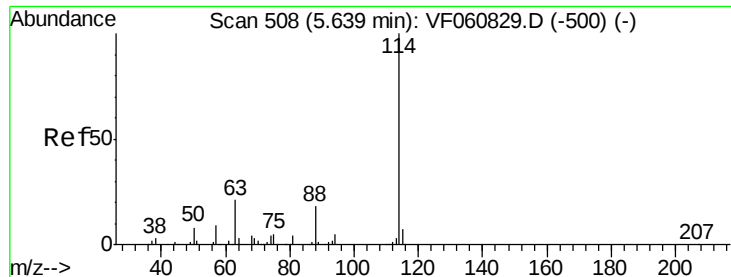
Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



Time-->





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :

MSVOA_F

ClientSampleId :

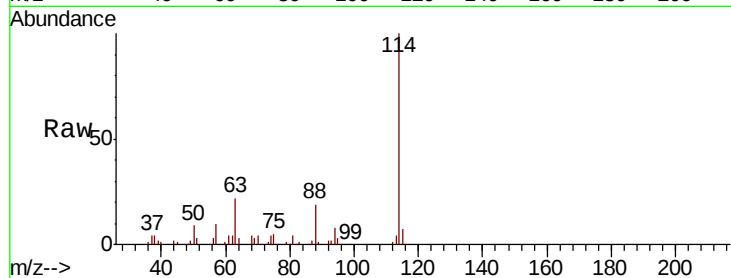
Tot Ion:114 Resp: 176514

Ion Ratio Lower Upper

114 100

63 21.9 0.0 41.6

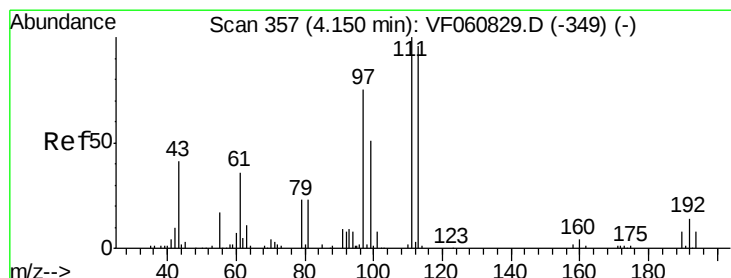
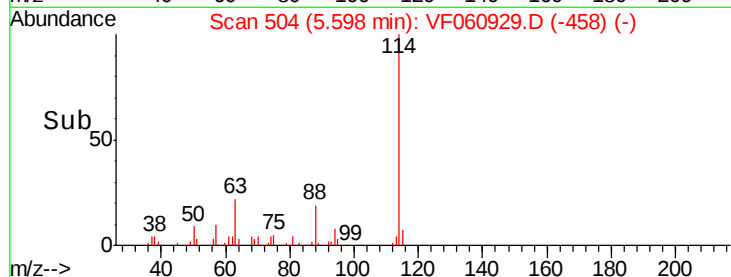
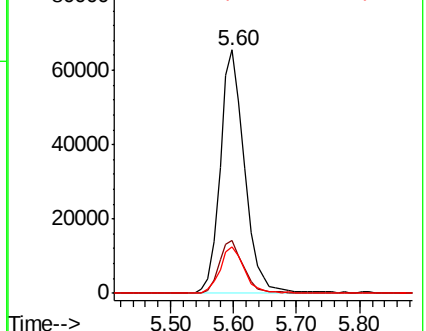
88 19.1 0.0 36.6



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: 46.753 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

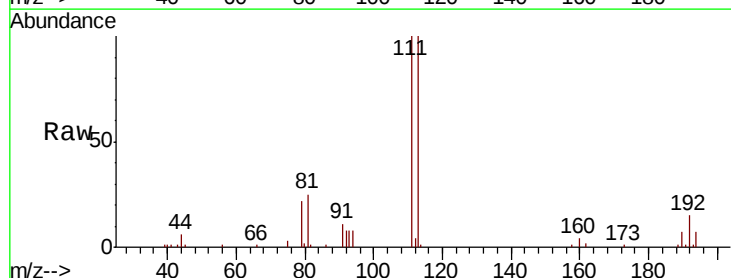
Tgt Ion:113 Resp: 65470

Ion Ratio Lower Upper

113 100

111 100.4 83.0 124.6

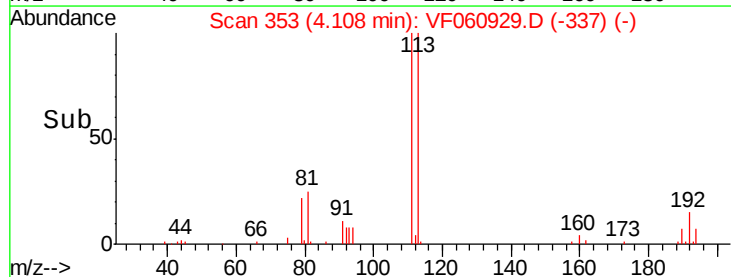
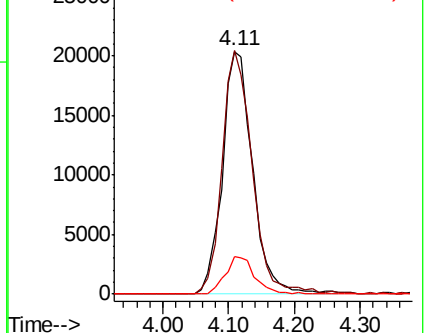
192 15.4 12.3 18.5

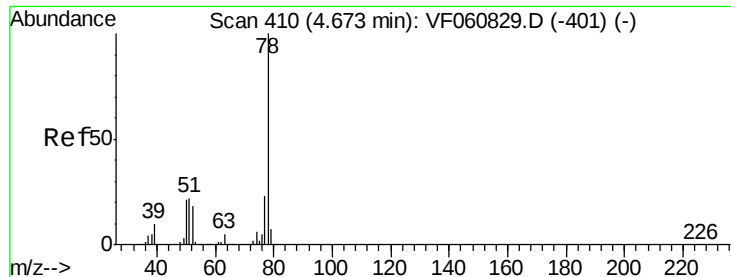


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#40

Benzene

Concen: 3.623 ug/l

RT: 4.63 min Scan# 406

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

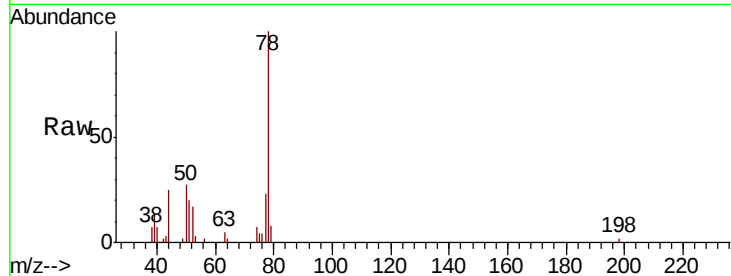
Instrument :
MSVOA_F
ClientSampled :

Tot Ion: 78 Resp: 15670

Ion Ratio Lower Upper

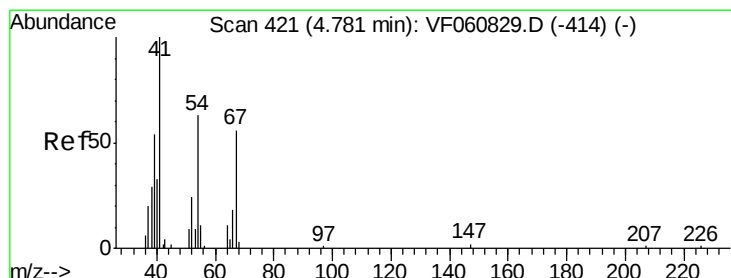
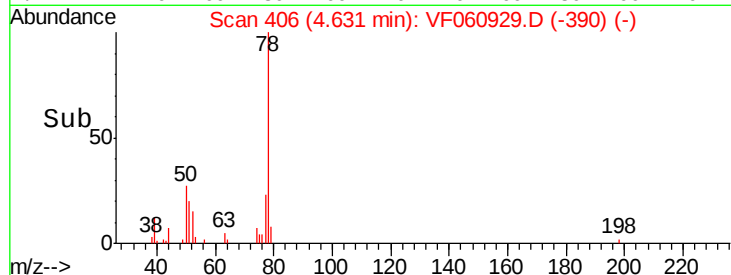
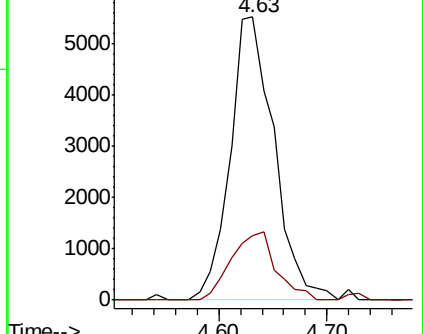
78 100

77 23.0 18.7 28.1



Abundance Ion 78.10 (77.80 to 78.80): VF0

Ion 77.00 (76.70 to 77.70): VF0



#41

Methacrylonitrile

Concen: Below Cal

RT: 4.74 min Scan# 417

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Tgt Ion: 41 Resp: 269

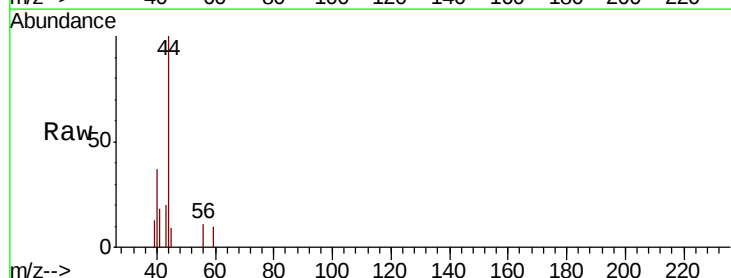
Ion Ratio Lower Upper

41 100

39 72.7 53.0 79.6

67 0.0 43.8 65.6#

52 0.0 37.8 56.8#

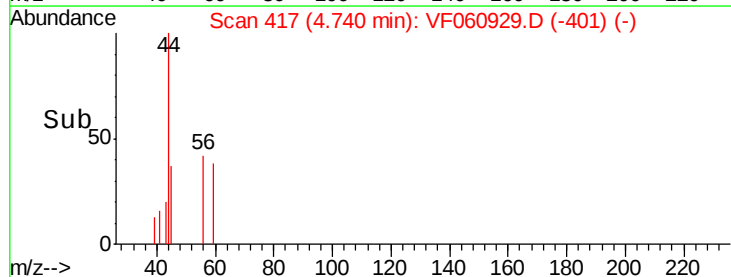
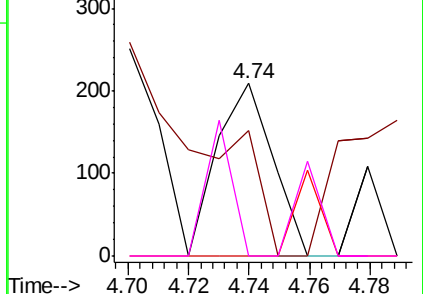


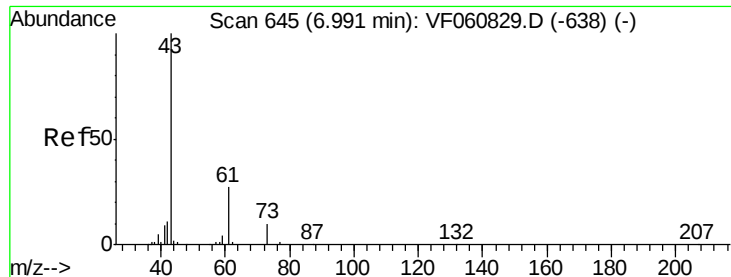
Abundance Ion 41.00 (40.70 to 41.70): VF0

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



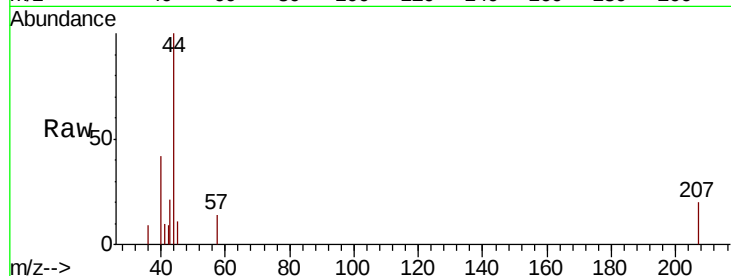


#43

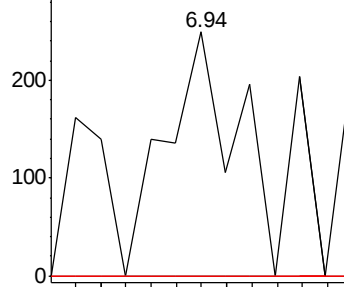
Isopropyl Acetate
 Concen: Below Cal
 RT: 6.94 min Scan# 640
 Delta R.T. -0.05 min
 Lab File: VF060929.D
 Acq: 6 Dec 2018 20:58

Instrument :
 MSVOA_F
 ClientSampled :

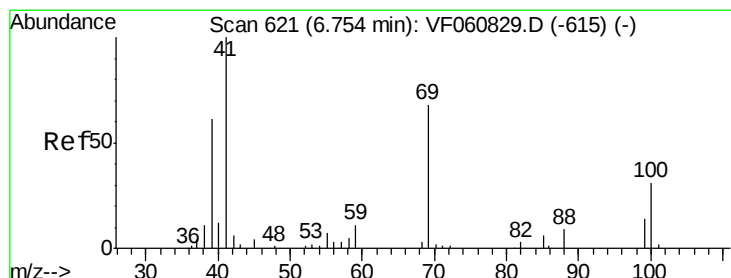
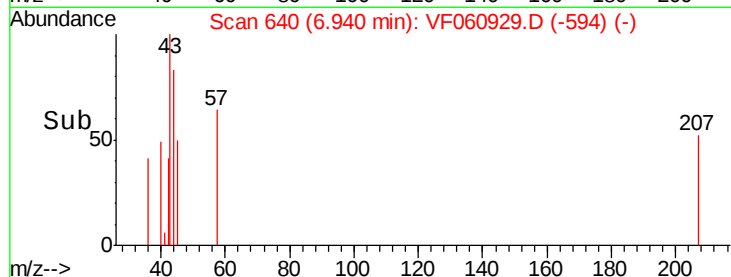
Tot Ion: 43 Resp: 489
 Ion Ratio Lower Upper
 43 100
 61 0.0 21.4 32.0#
 87 0.0 0.2 0.4#



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



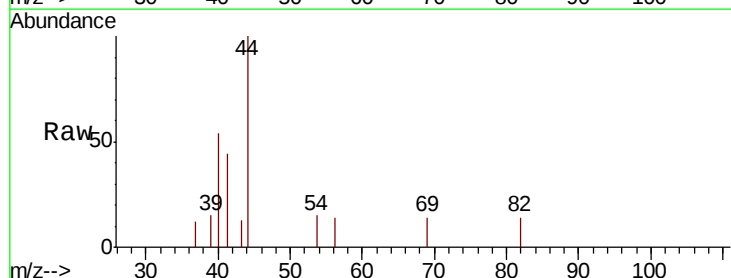
Time-->



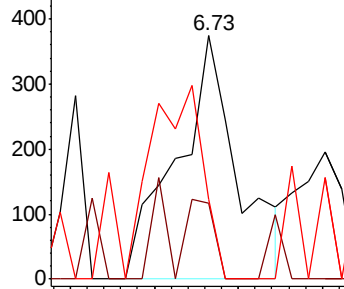
#48

Methyl methacrylate
 Concen: 1.308 ug/l
 RT: 6.73 min Scan# 619
 Delta R.T. -0.02 min
 Lab File: VF060929.D
 Acq: 6 Dec 2018 20:58

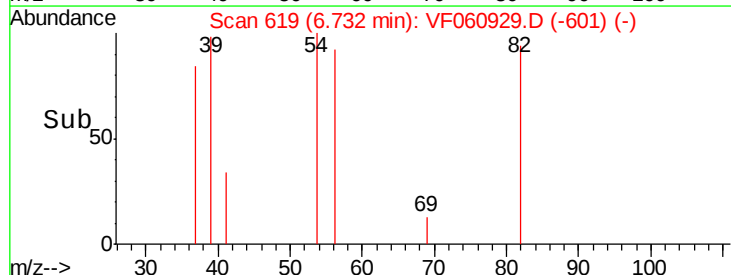
Tgt Ion: 41 Resp: 942
 Ion Ratio Lower Upper
 41 100
 69 31.0 53.9 80.9#
 39 32.9 49.0 73.6#

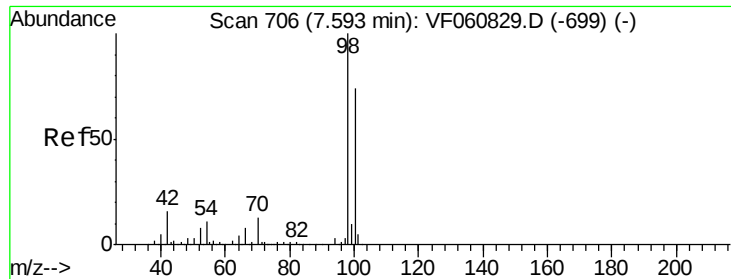


Abundance Ion 41.00 (40.70 to 41.70): VF0
 Ion 69.00 (68.70 to 69.70): VF0
 Ion 39.00 (38.70 to 39.70): VF0



Time-->





#50

Toluene-d8

Concen: 35.399 ug/l

RT: 7.55 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

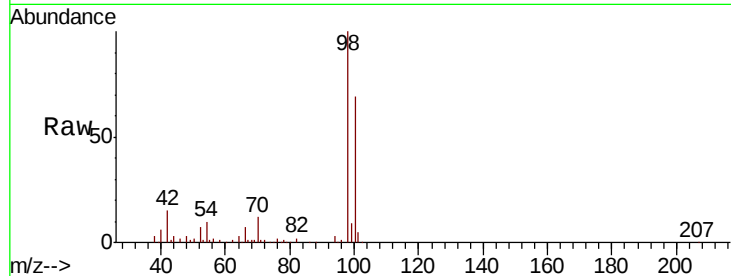
Instrument :
MSVOA_F
ClientSampleId :

Tot Ion: 98 Resp: 146020

Ion Ratio Lower Upper

98 100

100 68.9 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.55

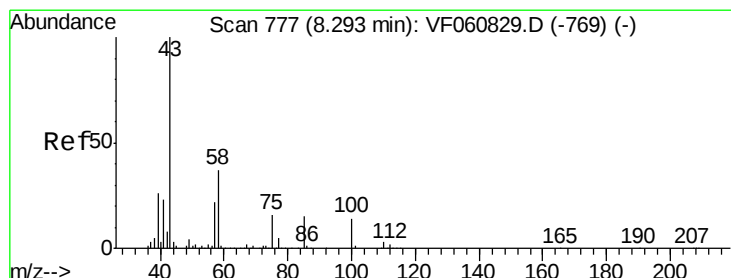
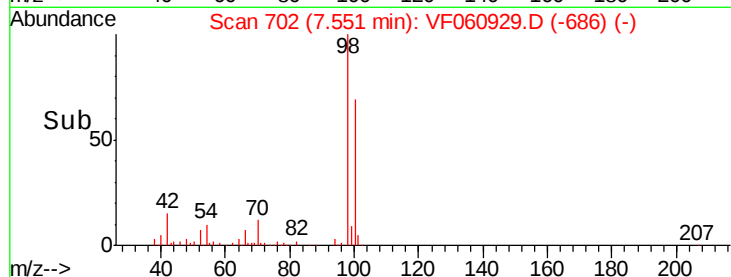
60000

40000

20000

0

Time--> 7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 2.361 ug/l

RT: 8.28 min Scan# 776

Delta R.T. -0.01 min

Lab File: VF060929.D

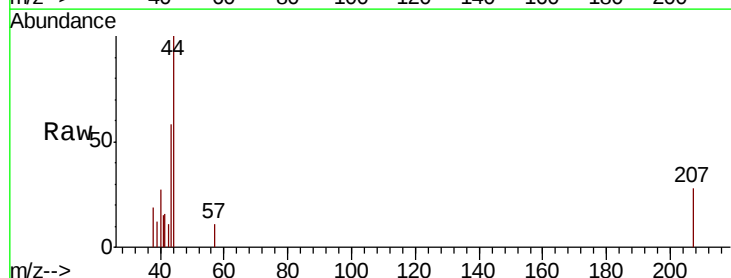
Acq: 6 Dec 2018 20:58

Tgt Ion: 43 Resp: 1732

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

8.28

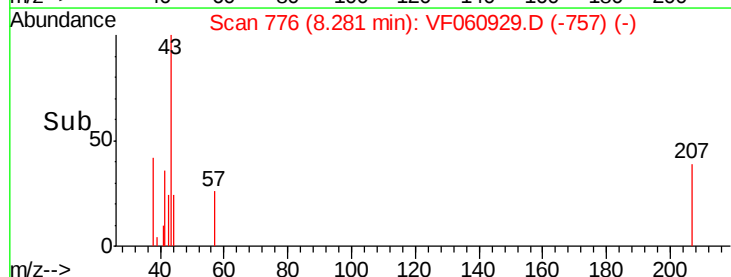
600

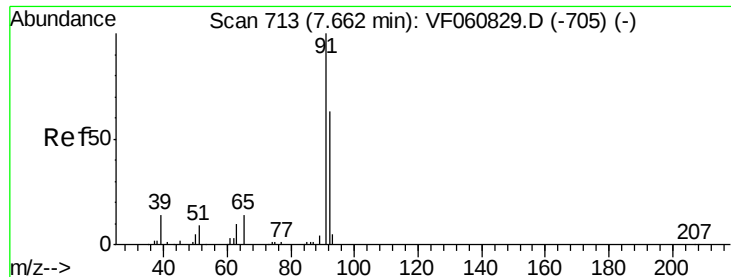
400

200

0

Time--> 8.15 8.20 8.25 8.30





#52

Toluene

Concen: 1.358 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :

MSVOA_F

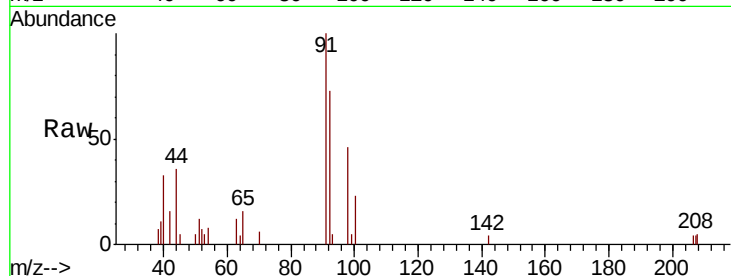
ClientSampled :

Tot Ion: 92 Resp: 4125

Ion Ratio Lower Upper

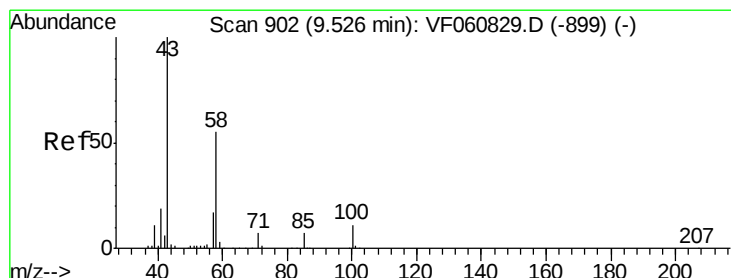
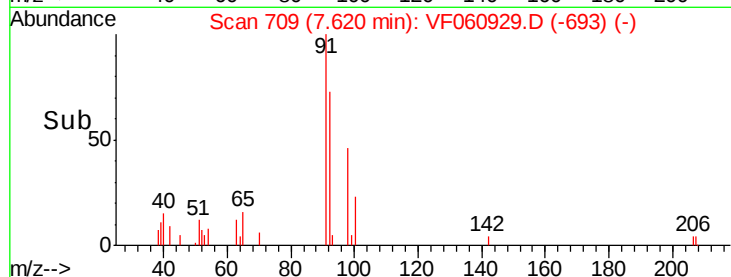
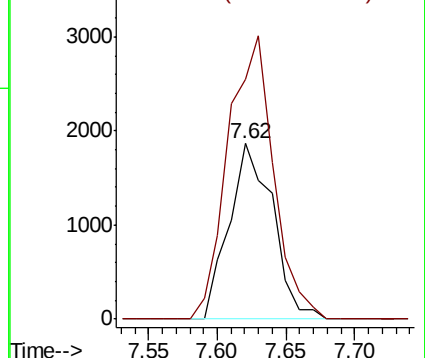
92 100

91 136.9 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#59

2-Hexanone

Concen: 2.087 ug/l

RT: 9.49 min Scan# 899

Delta R.T. -0.03 min

Lab File: VF060929.D

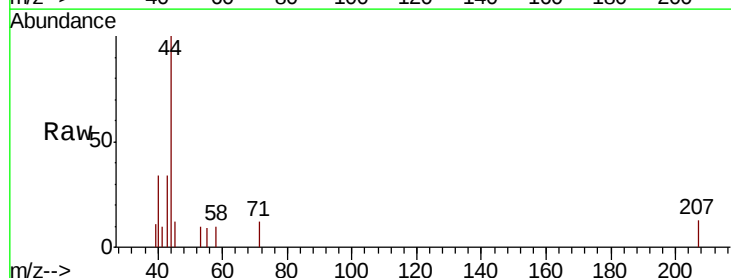
Acq: 6 Dec 2018 20:58

Tgt Ion: 43 Resp: 1074

Ion Ratio Lower Upper

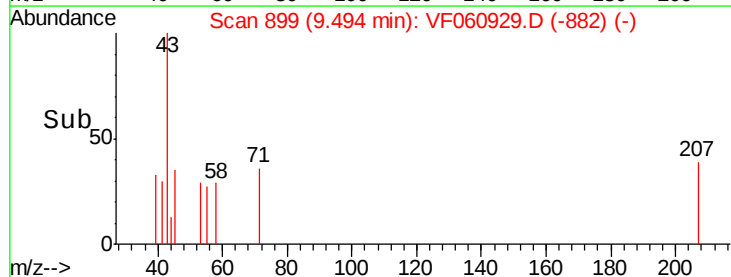
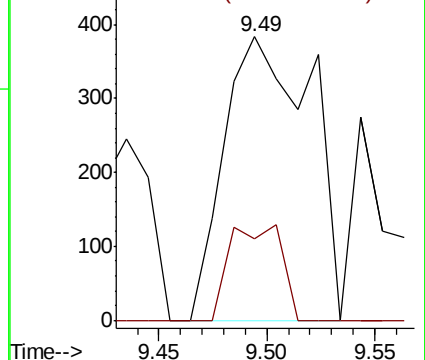
43 100

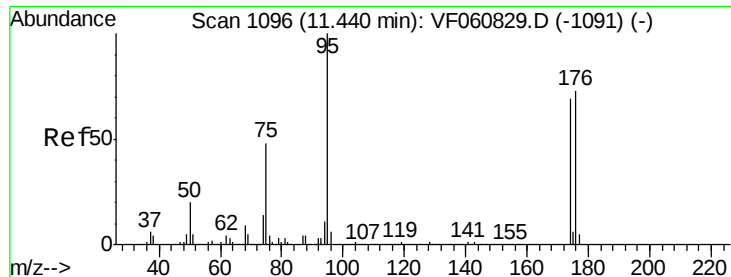
58 29.0 25.6 76.6



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

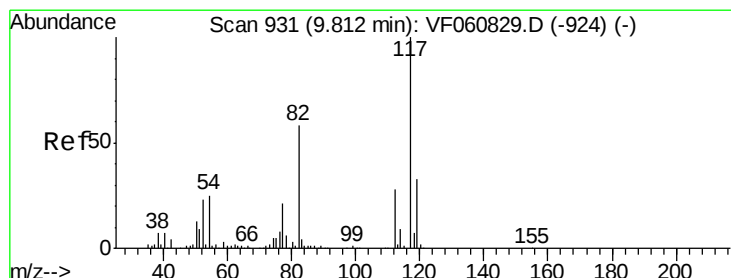
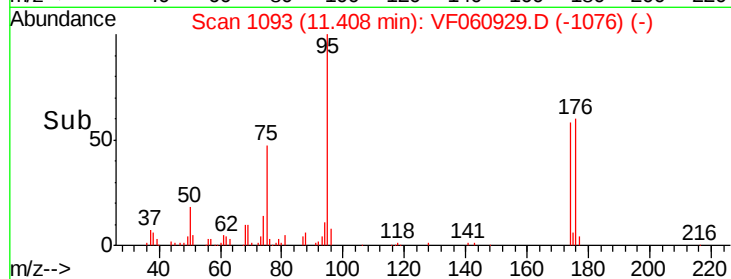
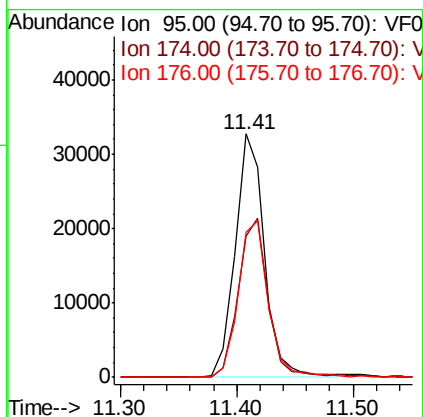
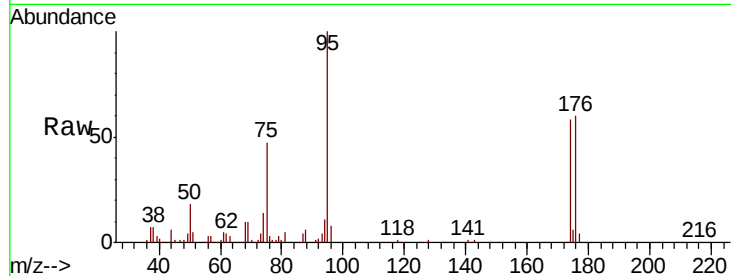




#62
4-Bromofluorobenzene
Concen: 30.364 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF060929.D
Acq: 6 Dec 2018 20:58

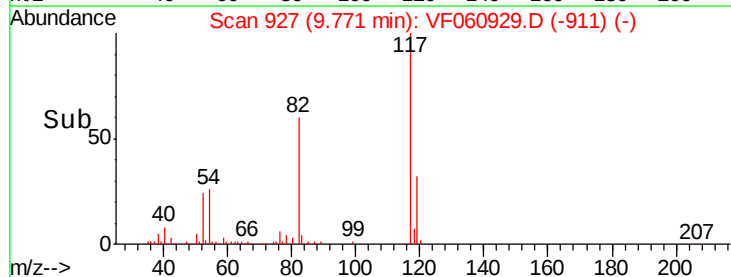
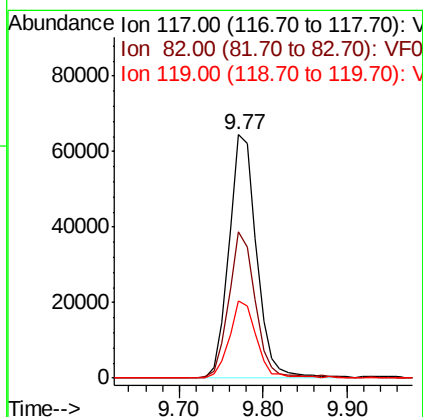
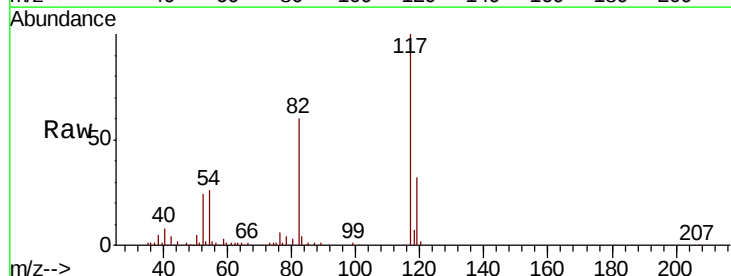
Instrument :
MSVOA_F
ClientSampled :

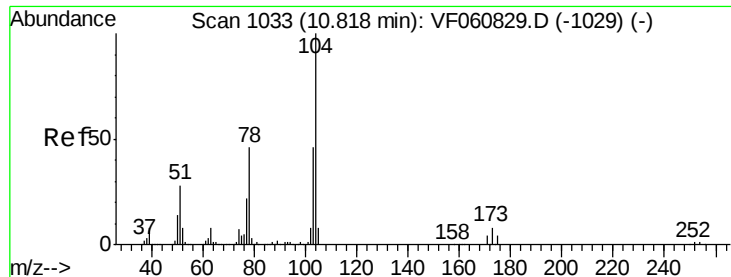
Tot Ion: 95 Resp: 56924
Ion Ratio Lower Upper
95 100
174 57.9 0.0 138.2
176 59.6 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF060929.D
Acq: 6 Dec 2018 20:58

Tgt Ion: 117 Resp: 147878
Ion Ratio Lower Upper
117 100
82 59.9 46.6 69.8
119 31.8 26.4 39.6

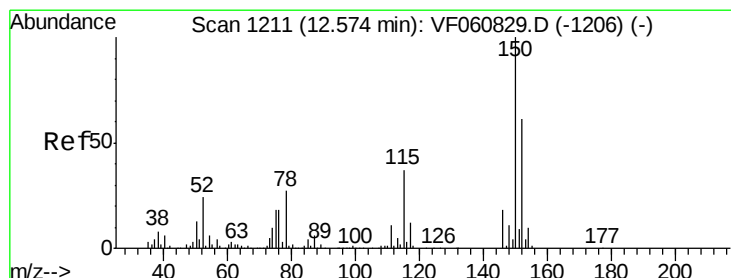
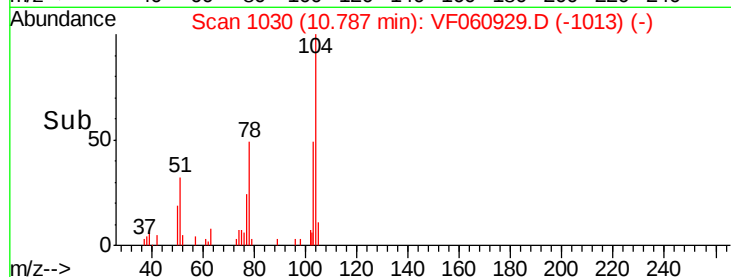
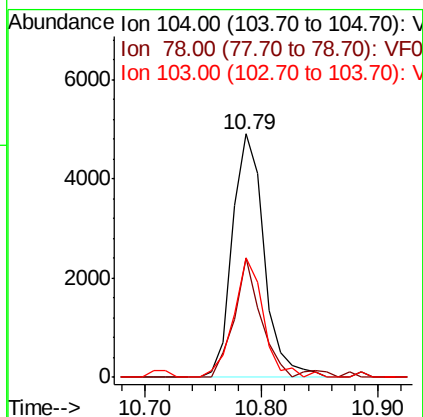
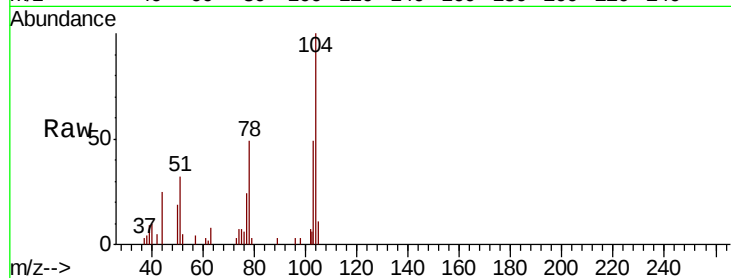




#70
Stvrene
Concen: 3.151 ug/l
RT: 10.79 min Scan# 1030
Delta R.T. -0.03 min
Lab File: VF060929.D
Acq: 6 Dec 2018 20:58

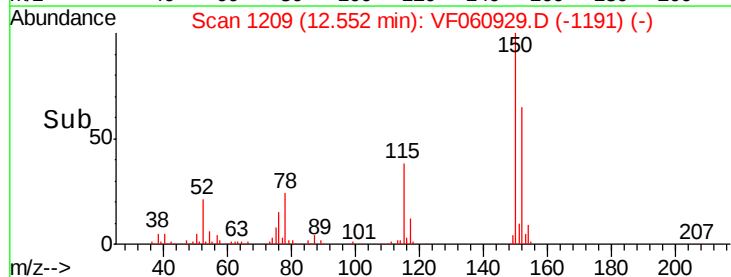
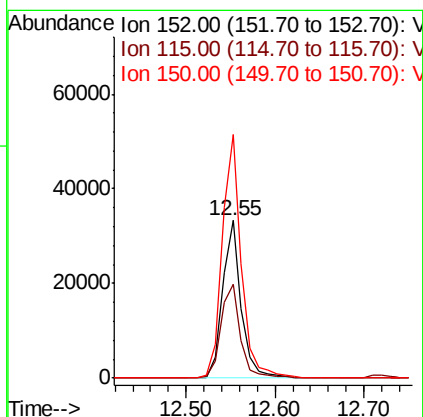
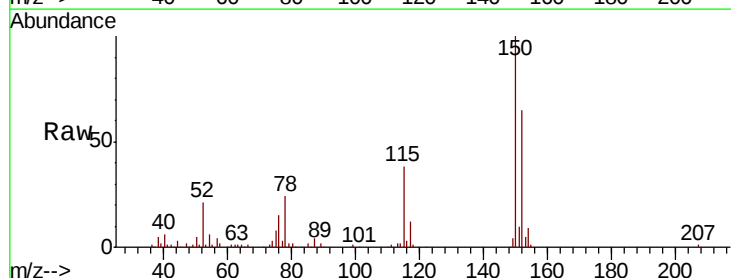
Instrument :
MSVOA_F
ClientSampleId :

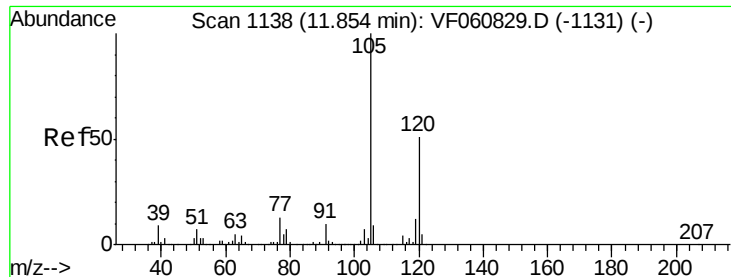
Tot Ion:104 Resp: 9279
Ion Ratio Lower Upper
104 100
78 49.3 37.3 55.9
103 49.3 36.8 55.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.55 min Scan# 1209
Delta R.T. -0.02 min
Lab File: VF060929.D
Acq: 6 Dec 2018 20:58

Tgt Ion:152 Resp: 49130
Ion Ratio Lower Upper
152 100
115 59.2 30.1 90.5
150 154.3 0.0 327.6





#80

1,3,5-Trimethylbenzene

Concen: 1.114 ug/l

RT: 11.82 min Scan# 1135

Delta R.T. -0.03 min

Lab File: VF060929.D

Acq: 6 Dec 2018 20:58

Instrument :

MSVOA_F

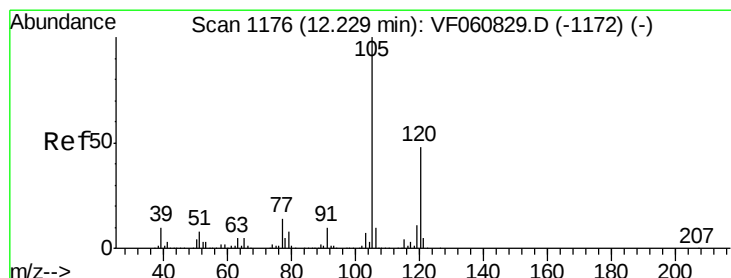
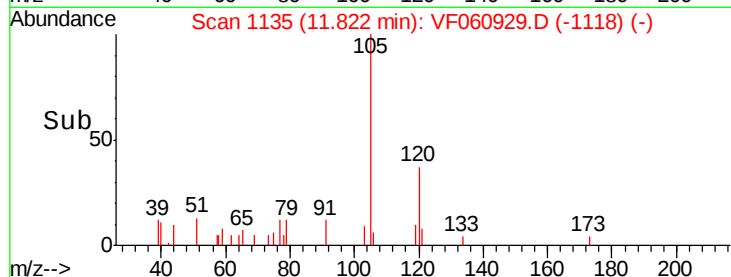
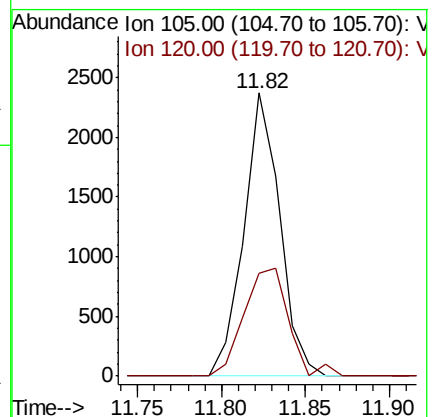
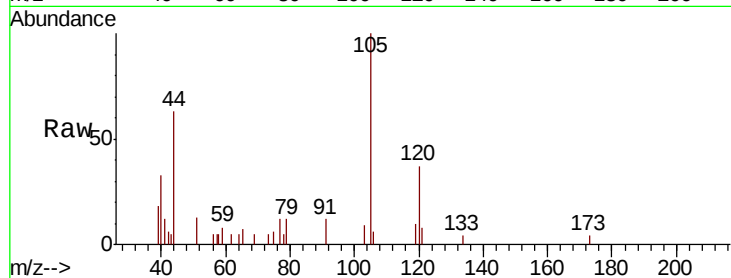
ClientSampleId :

Tot Ion:105 Resp: 3512

Ion Ratio Lower Upper

105 100

120 36.5 25.8 77.3



#84

1,2,4-Trimethylbenzene

Concen: 1.491 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.02 min

Lab File: VF060929.D

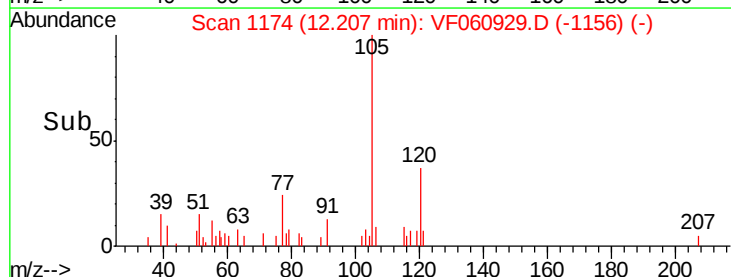
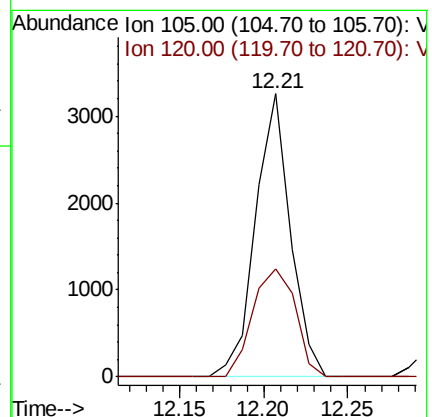
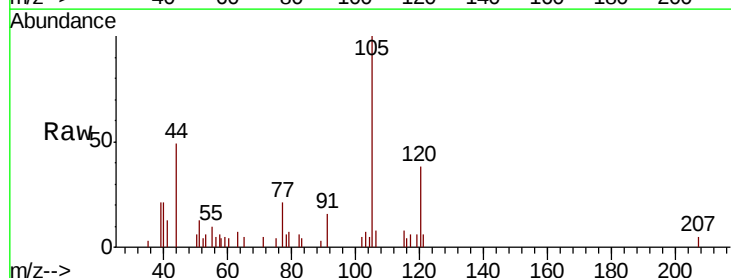
Acq: 6 Dec 2018 20:58

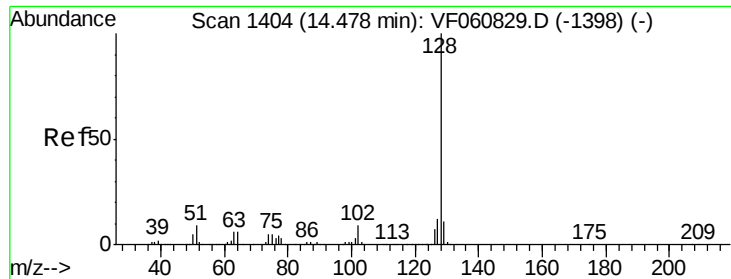
Tgt Ion:105 Resp: 4690

Ion Ratio Lower Upper

105 100

120 38.3 23.8 71.5





#95
Naphthalene
Concen: 106.488 ug/l
RT: 14.46 min Scan# 1402
Delta R.T. -0.02 min
Lab File: VF060929.D
Acq: 6 Dec 2018 20:58

Instrument :
MSVOA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.2	9.9	14.9
129	10.4	9.1	13.7

