

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121218\
 Data File : VF061000.D
 Acq On : 12 Dec 2018 17:18
 Operator : VA/AP
 Sample : J6189-01RE
 Misc : 6.01g/5mL/MSVOA-F/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-05-121118-A

Quant Time: Dec 13 01:25:31 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	127829	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.59	114	203046	50.00	ug/l	-0.05
63) Chlorobenzene-d5	9.77	117	186083	50.00	ug/l	-0.04
72) 1,4-Dichlorobenzene-d4	12.54	152	97011	50.00	ug/l	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.84	65	58313	38.72	ug/l	-0.04
Spiked Amount			Recovery	=	77.44%	
35) Dibromofluoromethane	4.11	113	64324	39.93	ug/l	-0.04
Spiked Amount			Recovery	=	79.86%	
50) Toluene-d8	7.55	98	169786	35.78	ug/l	-0.04
Spiked Amount			Recovery	=	71.56%	
62) 4-Bromofluorobenzene	11.41	95	80923	37.52	ug/l	-0.03
Spiked Amount			Recovery	=	75.04%	

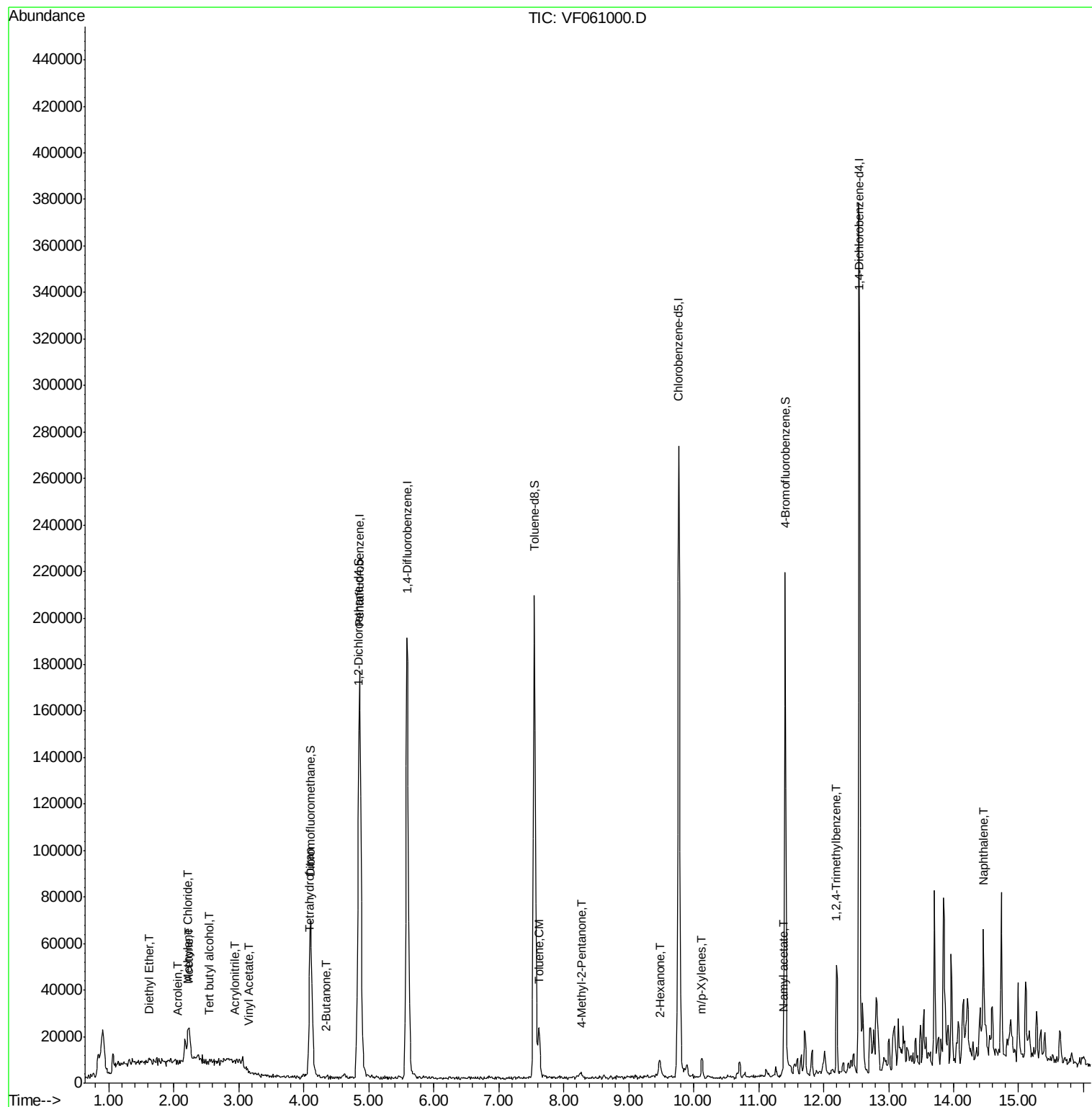
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	1.63	74	911	2.545	ug/l	60
11) Tert butyl alcohol	2.56	59	73	1.183	ug/l #	1
13) Acrolein	2.05	56	572	9.780	ug/l	100
15) Acrylonitrile	2.95	53	804	5.810	ug/l #	72
16) Acetone	2.25	43	7437	26.782	ug/l	99
18) Methyl Acetate	2.34	43	471	Below Cal	#	61
20) Methylene Chloride	2.22	84	8047	7.899	ug/l	86
23) Vinyl Acetate	3.17	43	1624	1.035	ug/l #	80
25) 2-Butanone	4.35	43	2085	4.341	ug/l #	90
29) Tetrahydrofuran	4.08	42	410	2.014	ug/l #	82
41) Methacrylonitrile	4.76	41	656	Below Cal	#	23
43) Isopropyl Acetate	6.89	43	165	Below Cal	#	49
51) 4-Methyl-2-Pentanone	8.26	43	2791	3.307	ug/l #	74
52) Toluene	7.62	92	10514	3.008	ug/l	98
59) 2-Hexanone	9.50	43	5561	9.392	ug/l	98
68) m/p-Xylenes	10.13	106	3079	1.270	ug/l	79
74) N-amyl acetate	11.37	43	2705	1.528	ug/l #	83
84) 1,2,4-Trimethylbenzene	12.20	105	22443	3.613	ug/l	87
95) Naphthalene	14.46	128	20487	1.603	ug/l #	94

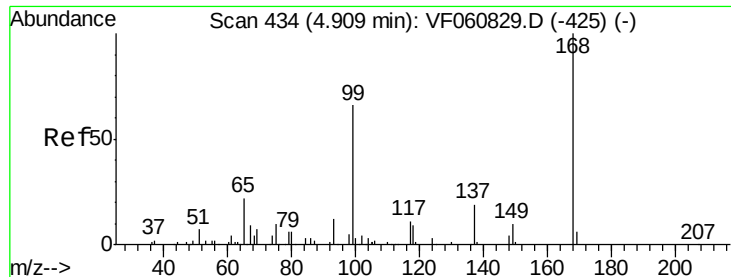
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VF061000.D

Acq: 12 Dec 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

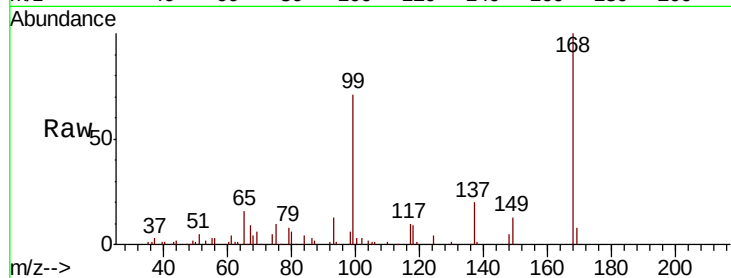
HR-05-121118-A

Tot Ion:168 Resp: 127829

Ion Ratio Lower Upper

168 100

99 70.9 52.6 79.0



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.87

40000

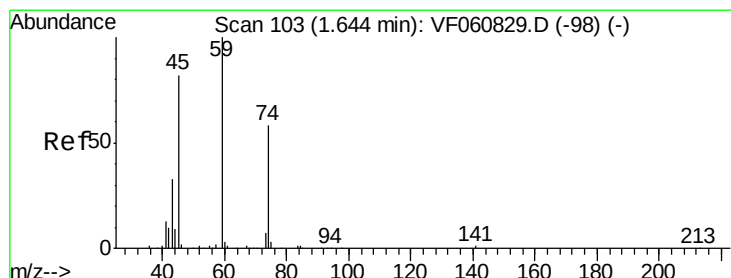
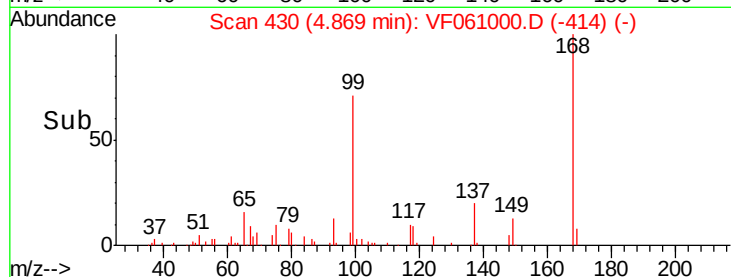
30000

20000

10000

0

Time--> 4.70 4.80 4.90 5.00



#8

Diethyl Ether

Concen: 2.545 ug/l

RT: 1.63 min Scan# 102

Delta R.T. -0.01 min

Lab File: VF061000.D

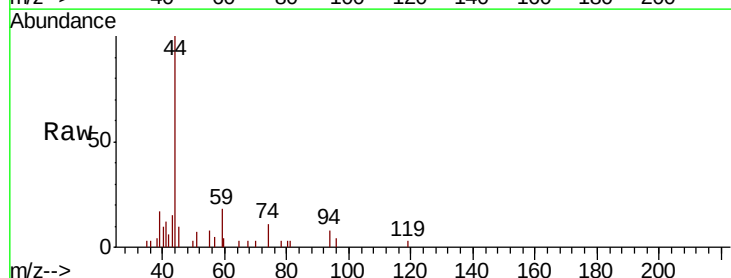
Acq: 12 Dec 2018 17:18

Tgt Ion: 74 Resp: 911

Ion Ratio Lower Upper

74 100

45 92.7 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

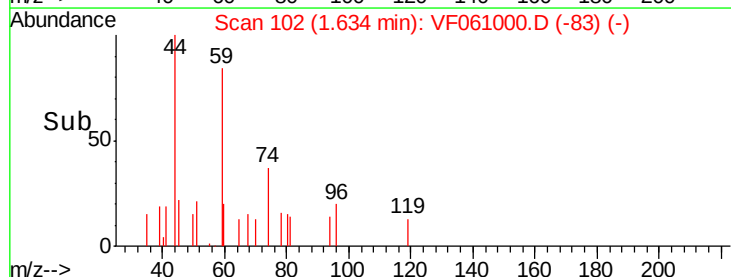
600

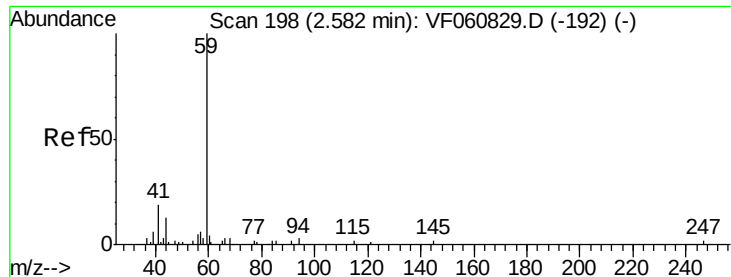
400

200

0

Time--> 1.55 1.60 1.65 1.70



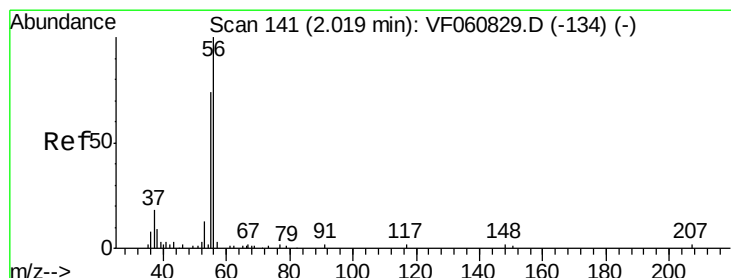
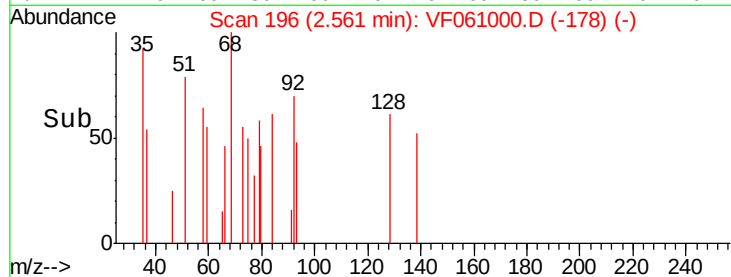
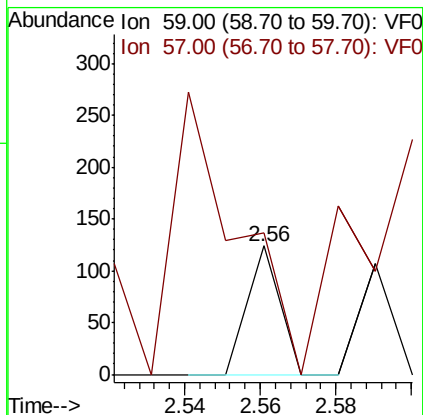
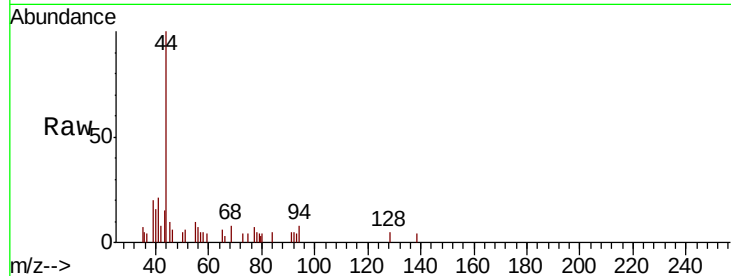


#11

Tert butyl alcohol
 Concen: 1.183 ug/l
 RT: 2.56 min Scan# 196
 Delta R.T. -0.02 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-05-121118-A

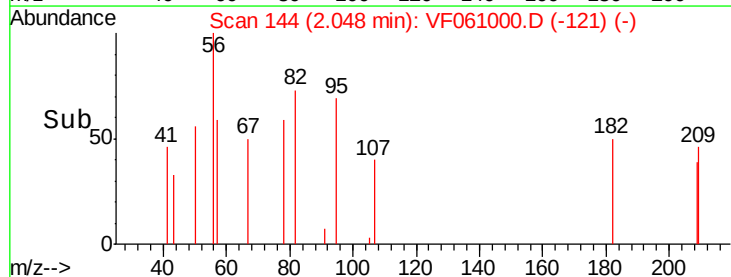
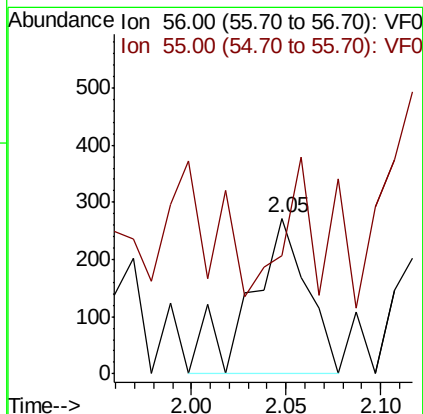
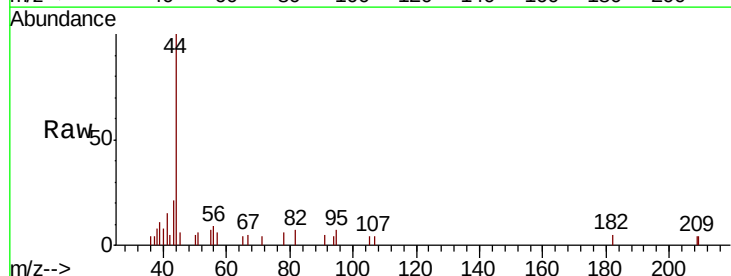
Tot Ion: 59 Resp: 73
 Ion Ratio Lower Upper
 59 100
 57 110.5 12.7 19.1#

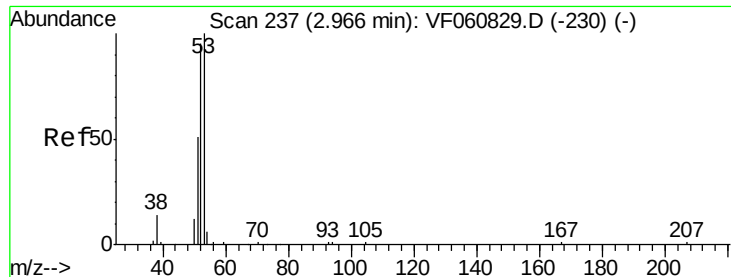


#13

Acrolein
 Concen: 9.780 ug/l
 RT: 2.05 min Scan# 144
 Delta R.T. 0.03 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Tgt Ion: 56 Resp: 572
 Ion Ratio Lower Upper
 56 100
 55 76.1 61.2 91.8





#15

Acrylonitrile

Concen: 5.810 ug/l

RT: 2.95 min Scan# 235

Delta R.T. -0.02 min

Lab File: VF061000.D

Acq: 12 Dec 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

HR-05-121118-A

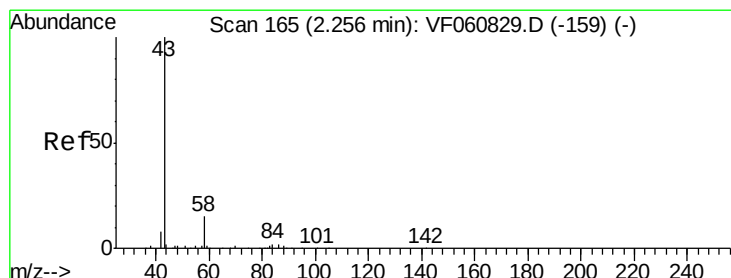
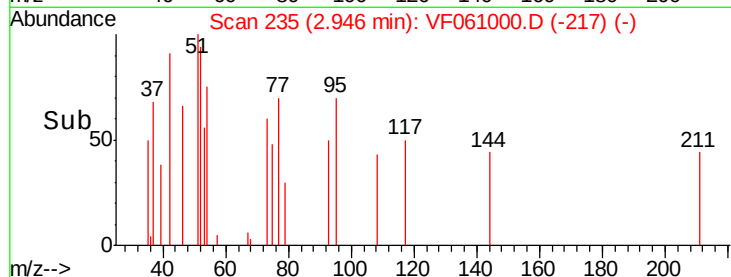
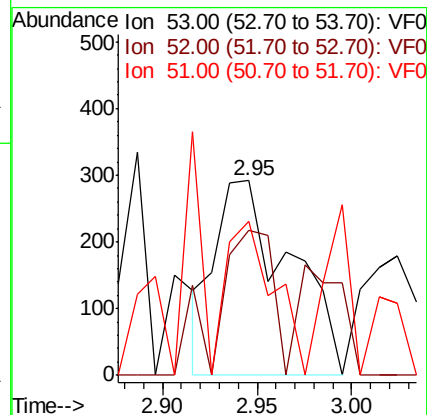
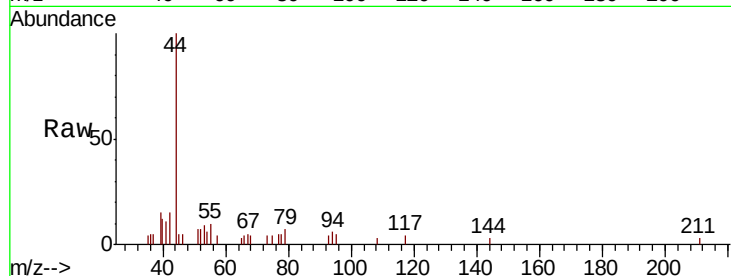
Tot Ion: 53 Resp: 804

Ion Ratio Lower Upper

53 100

52 74.3 76.5 114.7#

51 78.8 40.7 61.1#



#16

Acetone

Concen: 26.782 ug/l

RT: 2.25 min Scan# 164

Delta R.T. -0.01 min

Lab File: VF061000.D

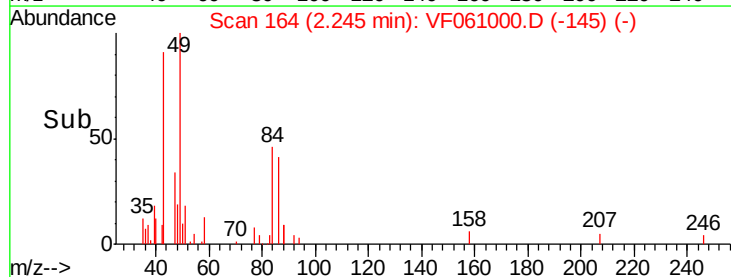
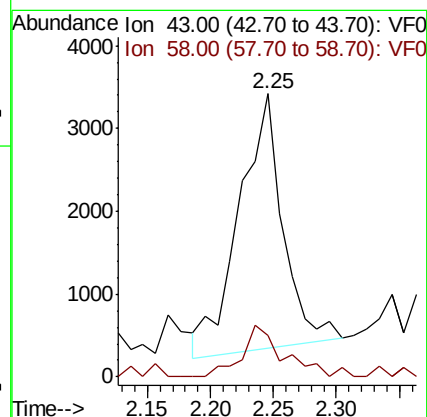
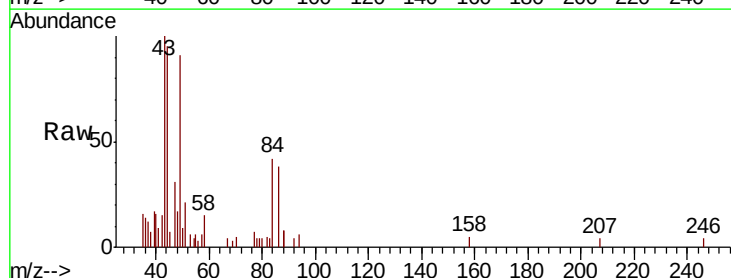
Acq: 12 Dec 2018 17:18

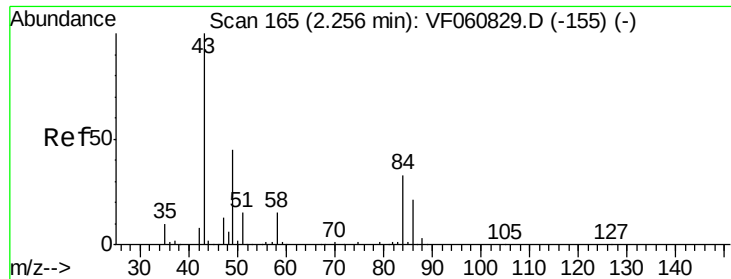
Tgt Ion: 43 Resp: 7437

Ion Ratio Lower Upper

43 100

58 14.8 11.4 17.2

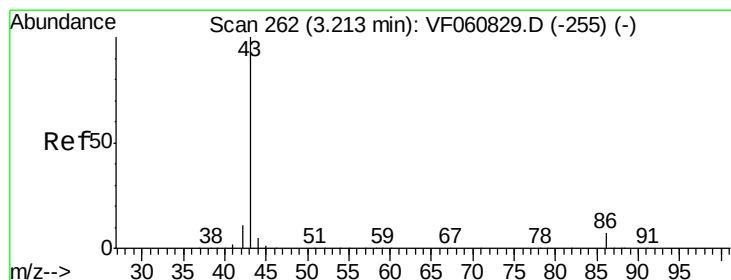
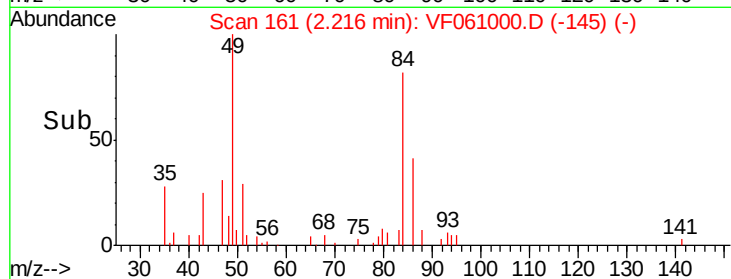
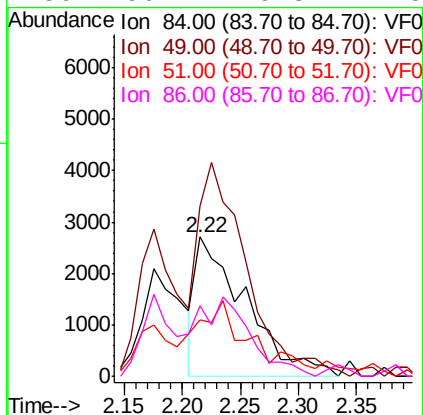
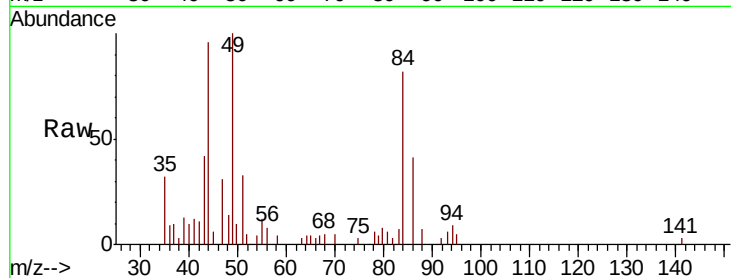




#20
Methvlene Chloride
Concen: 7.899 ug/l
RT: 2.22 min Scan# 161
Delta R.T. -0.04 min
Lab File: VF061000.D
Acq: 12 Dec 2018 17:18

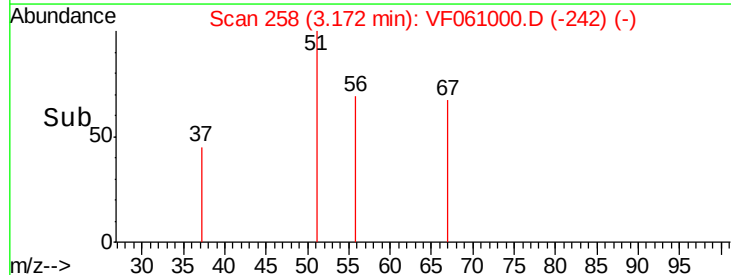
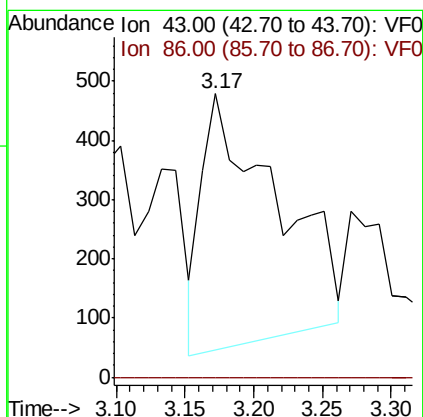
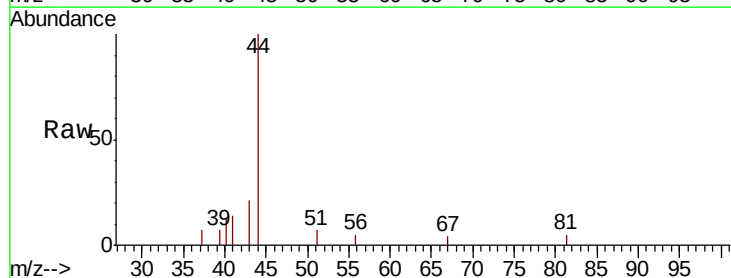
Instrument :
MSVOA_F
ClientSampleId :
HR-05-121118-A

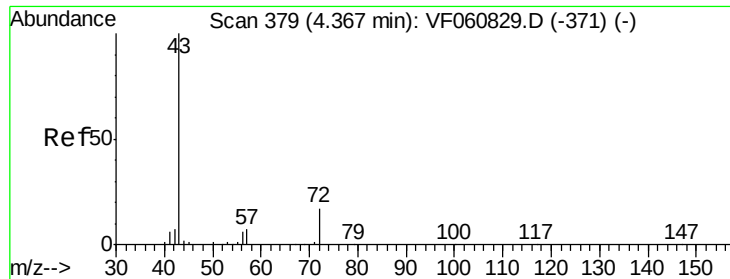
Tot Ion:	84	Resp:	8047
Ion	Ratio	Lower	Upper
84	100		
49	121.8	111.3	166.9
51	40.3	38.0	57.0
86	50.4	49.8	74.8



#23
Vinyl Acetate
Concen: 1.035 ug/l
RT: 3.17 min Scan# 258
Delta R.T. -0.04 min
Lab File: VF061000.D
Acq: 12 Dec 2018 17:18

Tgt Ion:	43	Resp:	1624
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.4	8.0#





#25

2-Butanone

Concen: 4.341 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF061000.D

Acq: 12 Dec 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

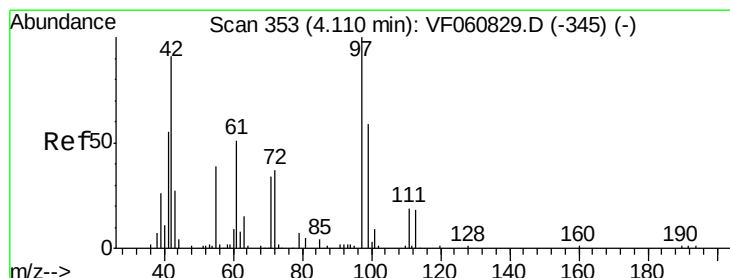
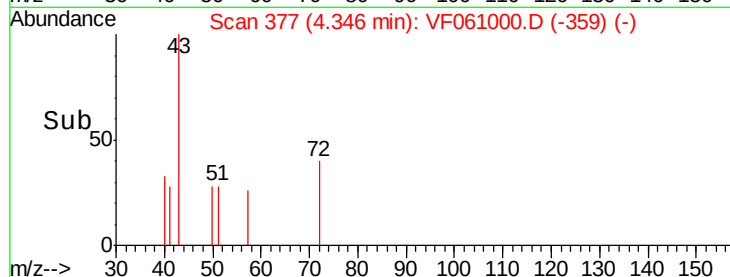
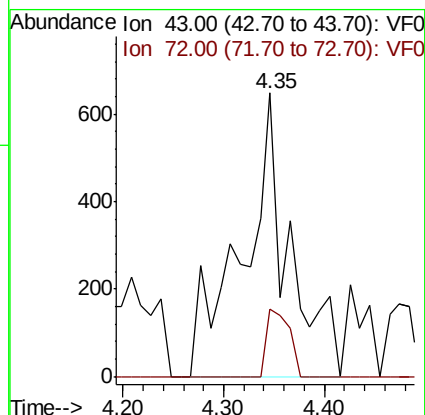
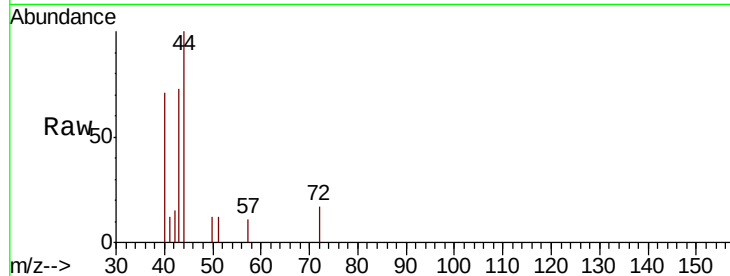
HR-05-121118-A

Tot Ion: 43 Resp: 2085

Ion Ratio Lower Upper

43 100

72 23.9 15.4 23.2#



#29

Tetrahydrofuran

Concen: 2.014 ug/l

RT: 4.08 min Scan# 350

Delta R.T. -0.03 min

Lab File: VF061000.D

Acq: 12 Dec 2018 17:18

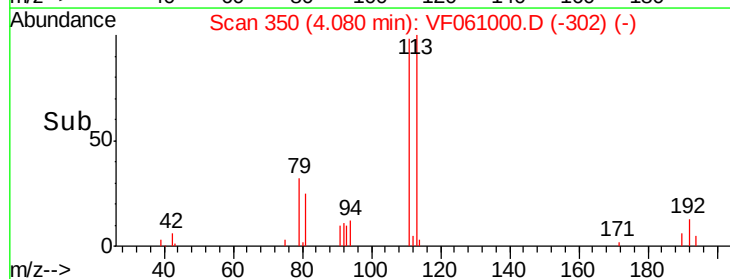
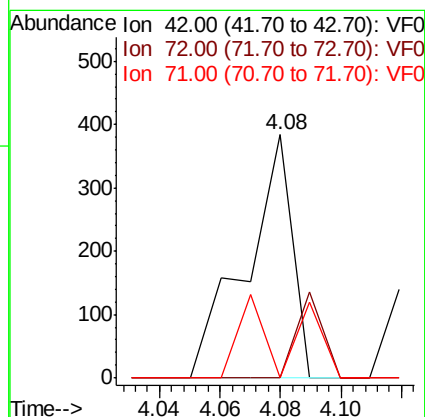
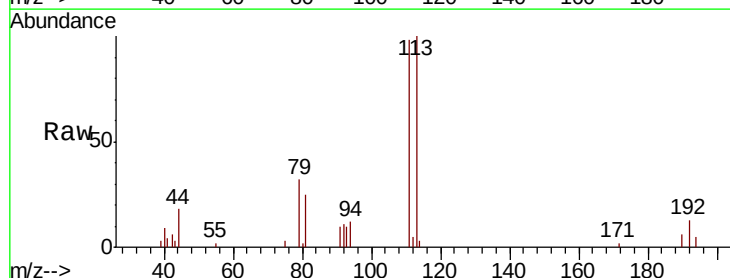
Tgt Ion: 42 Resp: 410

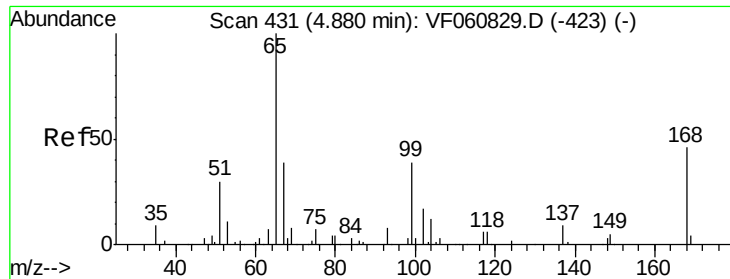
Ion Ratio Lower Upper

42 100

72 19.5 31.9 47.9#

71 36.1 28.7 43.1

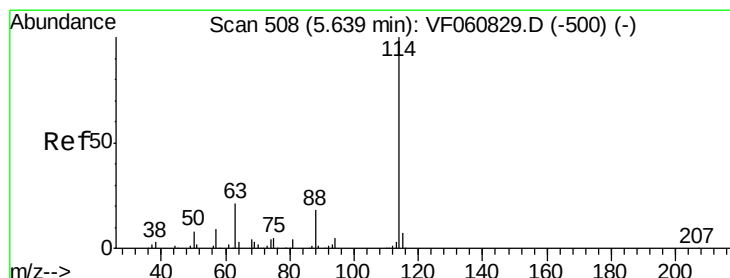
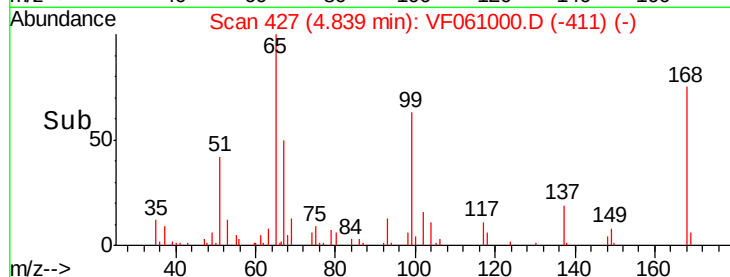
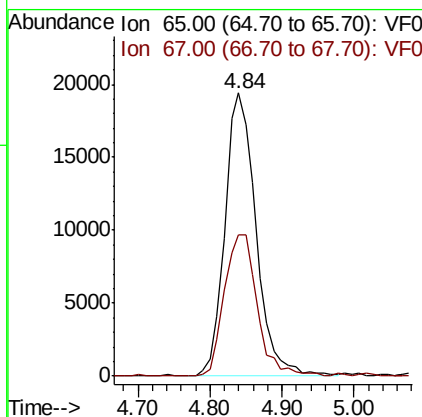
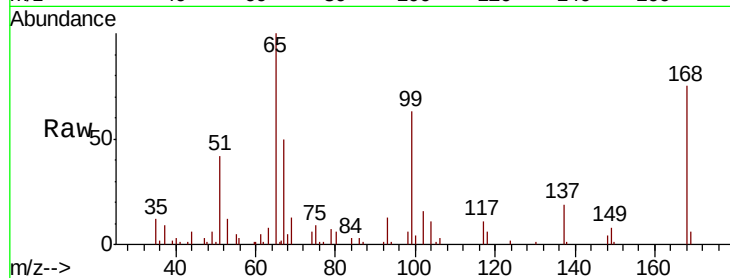




#33
 1,2-Dichloroethane-d4
 Concen: 38.724 ug/l
 RT: 4.84 min Scan# 427
 Delta R.T. -0.04 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

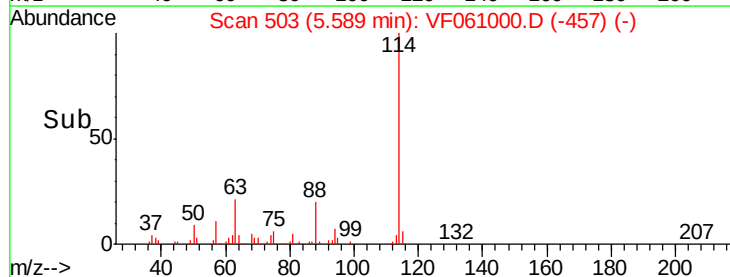
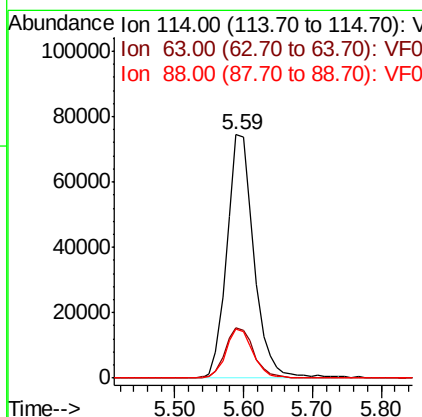
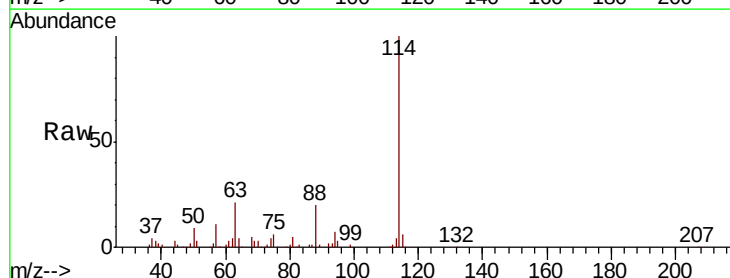
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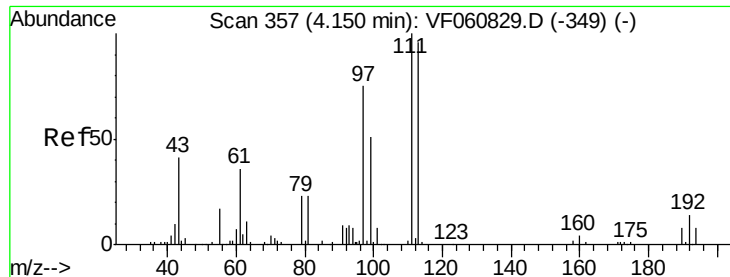
Tot Ion: 65 Resp: 58313
 Ion Ratio Lower Upper
 65 100
 67 49.9 0.0 96.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.59 min Scan# 503
 Delta R.T. -0.05 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Tgt Ion: 114 Resp: 203046
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 41.6
 88 20.3 0.0 36.6

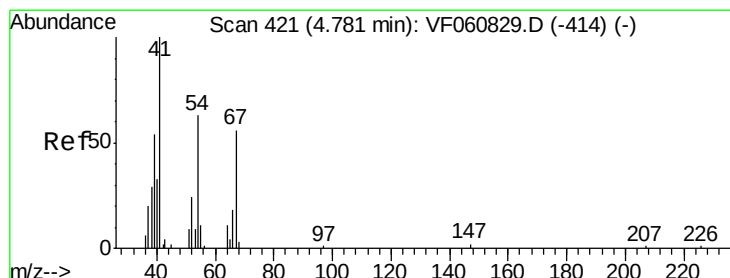
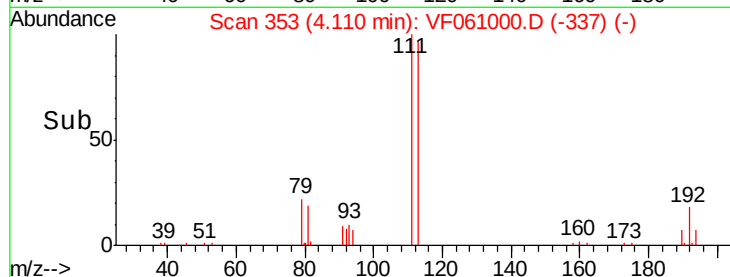
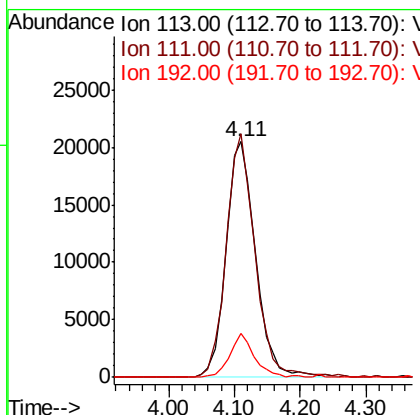
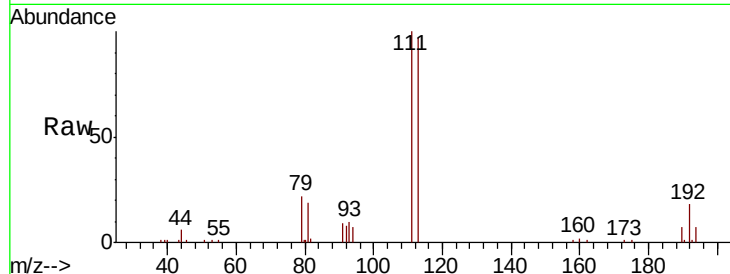




#35
 Dibromofluoromethane
 Concen: 39.933 ug/l
 RT: 4.11 min Scan# 353
 Delta R.T. -0.04 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

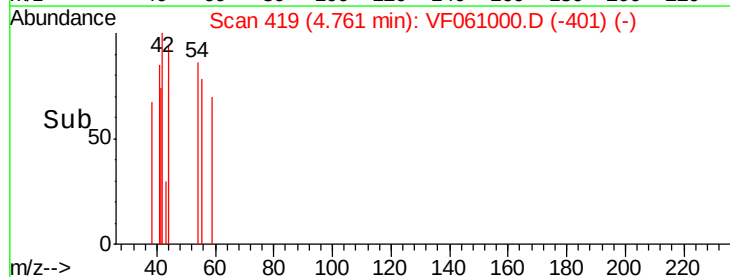
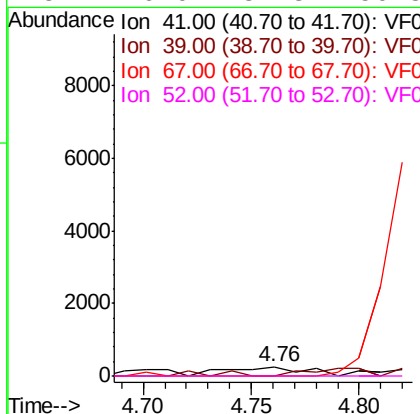
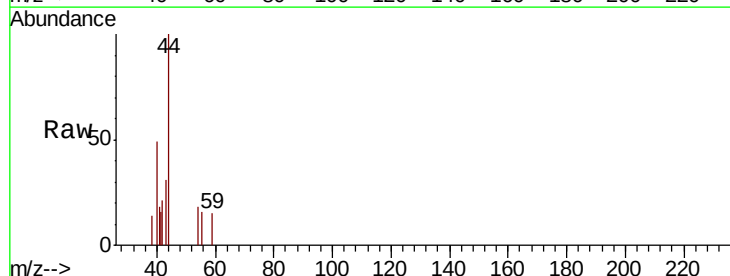
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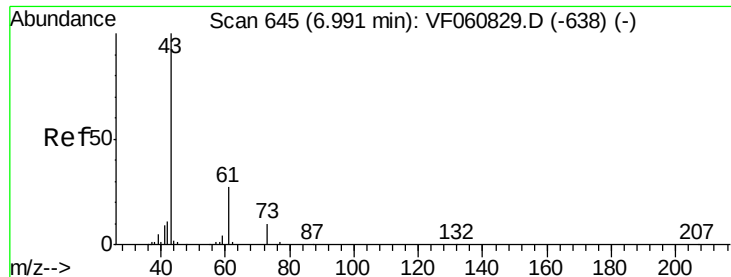
Tot Ion:113 Resp: 64324
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.0 124.6
 192 18.4 12.3 18.5



#41
 Methacrylonitrile
 Concen: Below Cal
 RT: 4.76 min Scan# 419
 Delta R.T. -0.02 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Tgt Ion: 41 Resp: 656
 Ion Ratio Lower Upper
 41 100
 39 0.0 53.0 79.6#
 67 0.0 43.8 65.6#
 52 0.0 37.8 56.8#



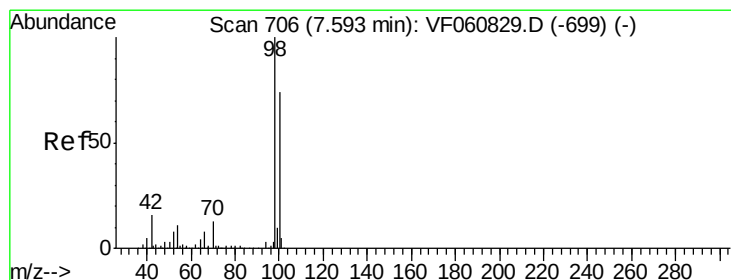
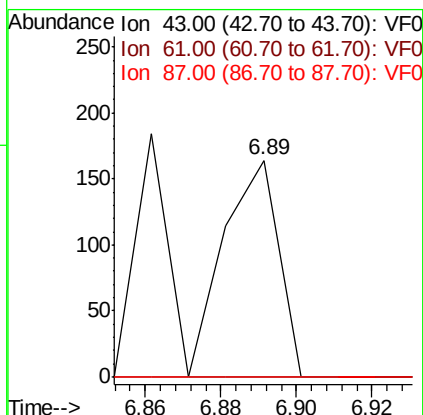
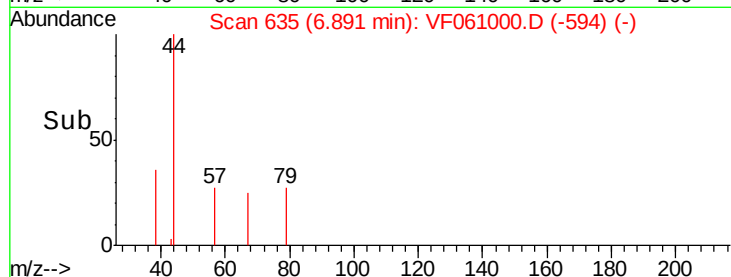
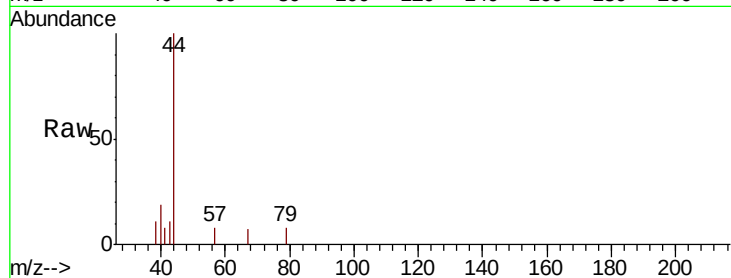


#43

Isopropyl Acetate
 Concen: Below Cal
 RT: 6.89 min Scan# 635
 Delta R.T. -0.10 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-05-121118-A

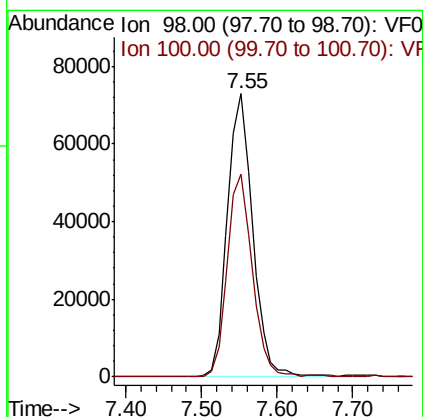
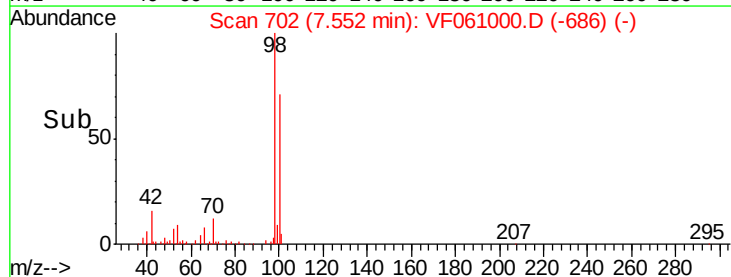
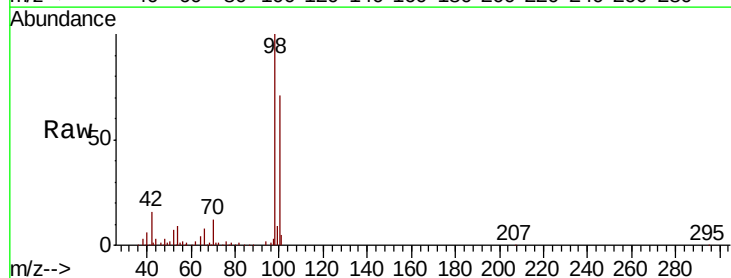
Tot Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#

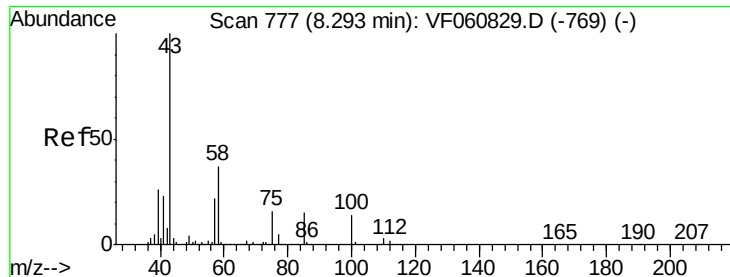


#50

Toluene-d8
 Concen: 35.782 ug/l
 RT: 7.55 min Scan# 702
 Delta R.T. -0.04 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	71.5	59.3	88.9





#51

4-Methyl-2-Pentanone

Concen: 3.307 ug/l

RT: 8.26 min Scan# 774

Delta R.T. -0.03 min

Lab File: VF061000.D

Acq: 12 Dec 2018 17:18

Instrument :

MSVOA_F

ClientSampleId :

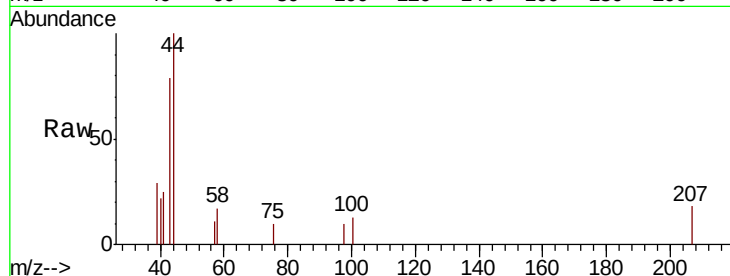
HR-05-121118-A

Tot Ion: 43 Resp: 2791

Ion Ratio Lower Upper

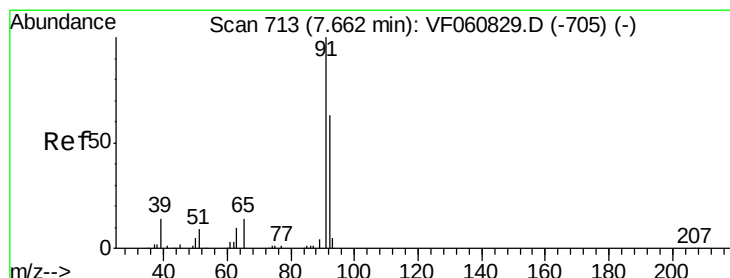
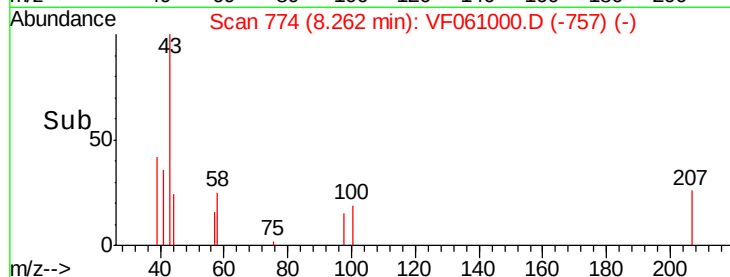
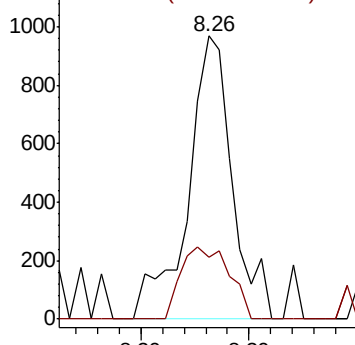
43 100

58 21.8 29.7 44.5#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#52

Toluene

Concen: 3.008 ug/l

RT: 7.62 min Scan# 709

Delta R.T. -0.04 min

Lab File: VF061000.D

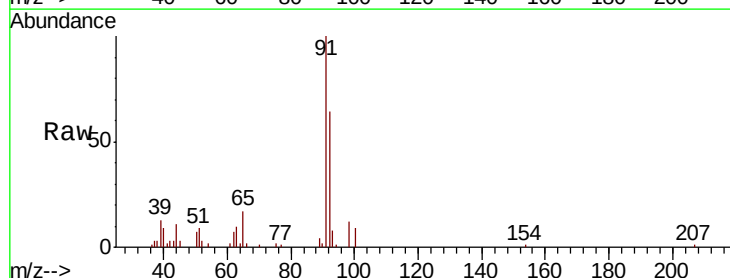
Acq: 12 Dec 2018 17:18

Tgt Ion: 92 Resp: 10514

Ion Ratio Lower Upper

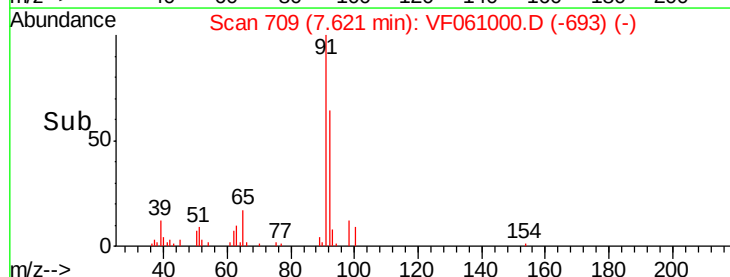
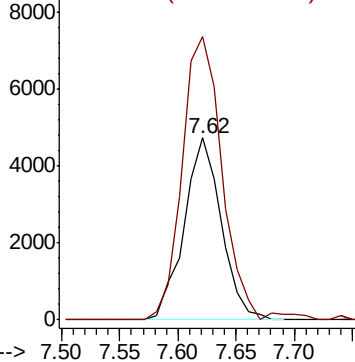
92 100

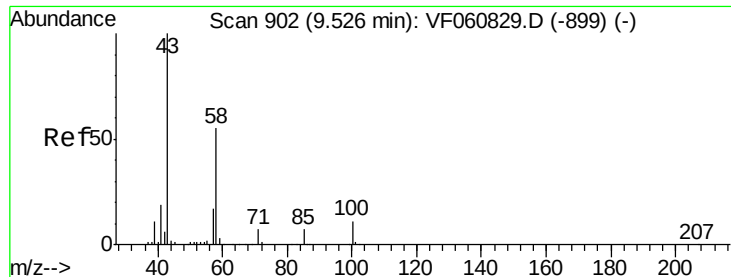
91 155.4 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0

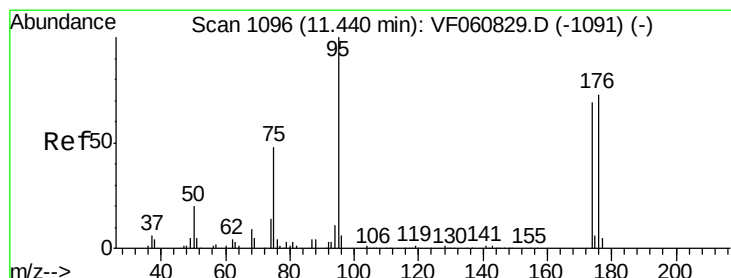
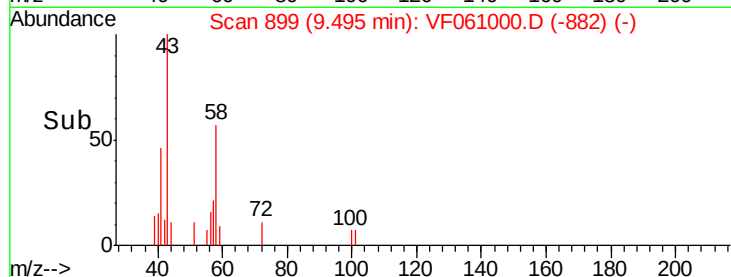
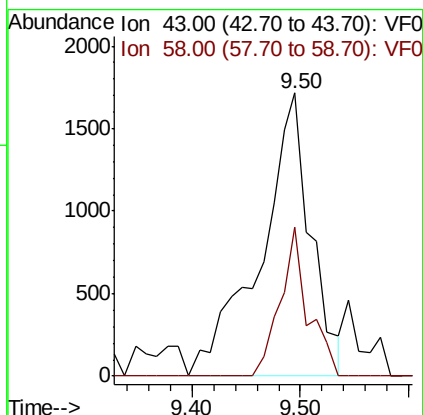
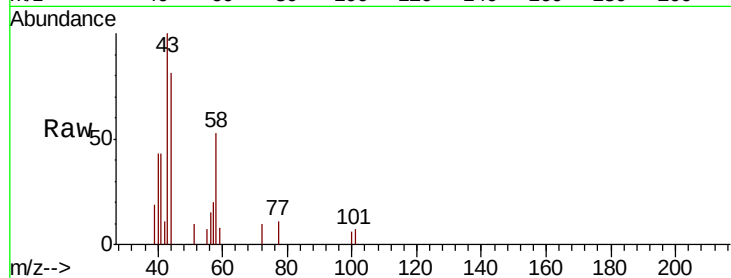




#59
2-Hexanone
Concen: 9.392 ug/l
RT: 9.50 min Scan# 899
Delta R.T. -0.03 min
Lab File: VF061000.D
Acq: 12 Dec 2018 17:18

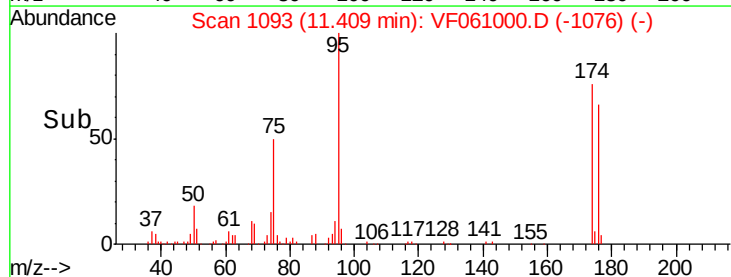
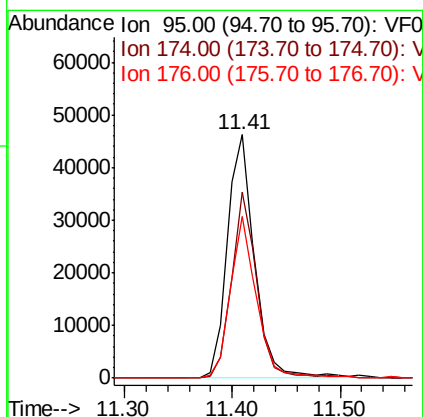
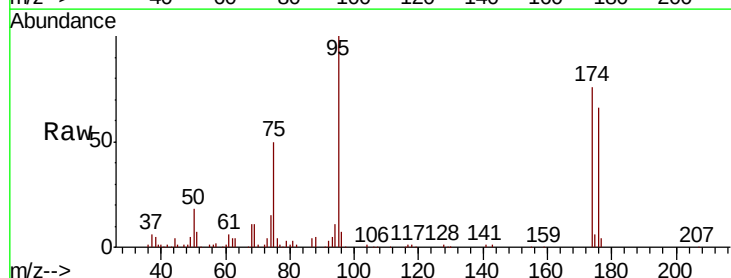
Instrument :
MSVOA_F
ClientSampleId :
HR-05-121118-A

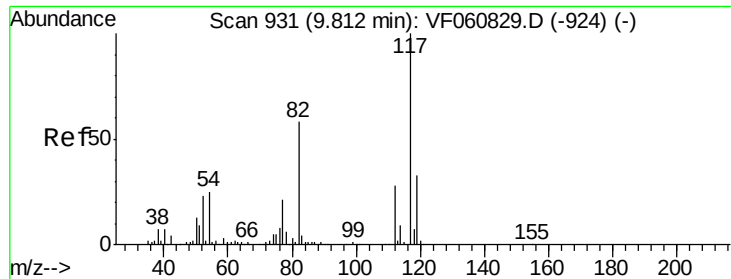
Tot Ion: 43 Resp: 5561
Ion Ratio Lower Upper
43 100
58 52.7 25.6 76.6



#62
4-Bromofluorobenzene
Concen: 37.525 ug/l
RT: 11.41 min Scan# 1093
Delta R.T. -0.03 min
Lab File: VF061000.D
Acq: 12 Dec 2018 17:18

Tgt Ion: 95 Resp: 80923
Ion Ratio Lower Upper
95 100
174 76.3 0.0 138.2
176 66.3 0.0 146.2

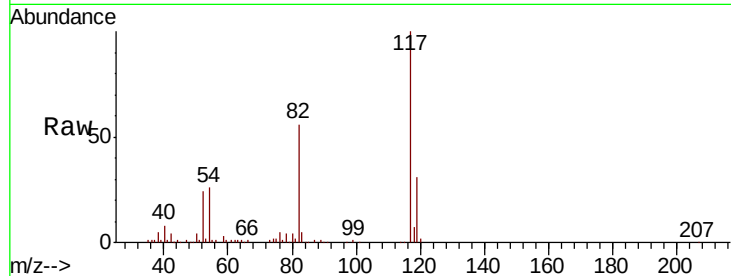




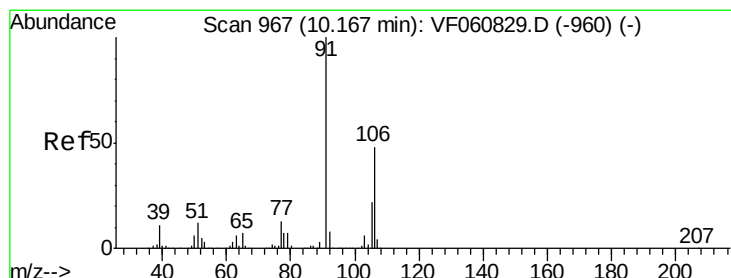
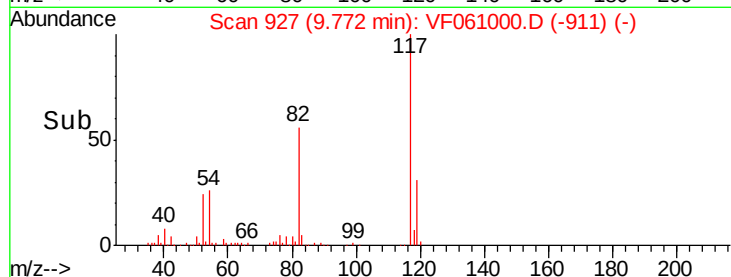
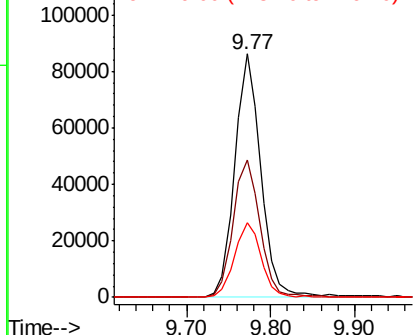
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.77 min Scan# 927
Delta R.T. -0.04 min
Lab File: VF061000.D
Acq: 12 Dec 2018 17:18

Instrument :
MSVOA_F
ClientSampleId :
HR-05-121118-A

Tot Ion:117 Resp: 186083
Ion Ratio Lower Upper
117 100
82 56.3 46.6 69.8
119 30.7 26.4 39.6

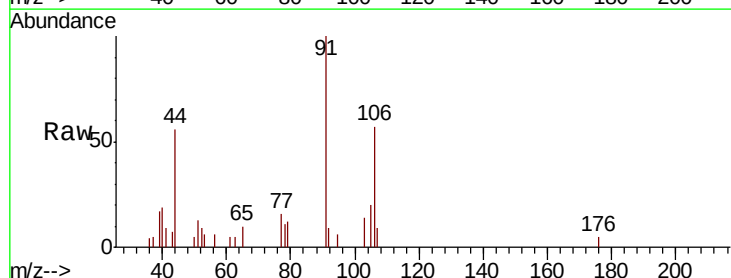


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V

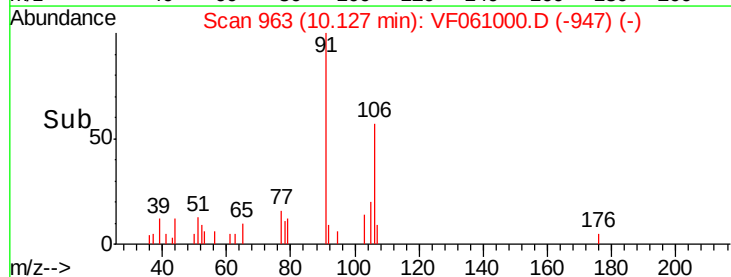
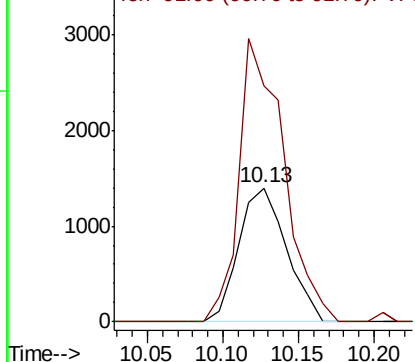


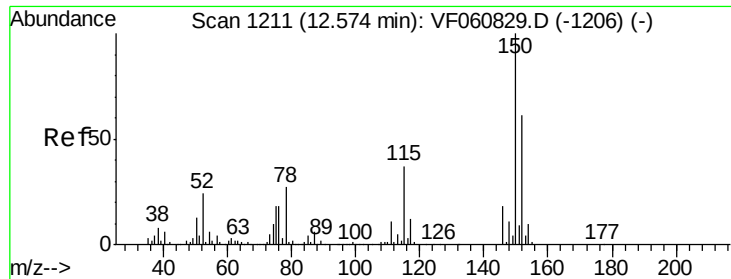
#68
m/p-Xylenes
Concen: 1.270 ug/l
RT: 10.13 min Scan# 963
Delta R.T. -0.04 min
Lab File: VF061000.D
Acq: 12 Dec 2018 17:18

Tgt Ion:106 Resp: 3079
Ion Ratio Lower Upper
106 100
91 175.8 166.7 250.1



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VF0

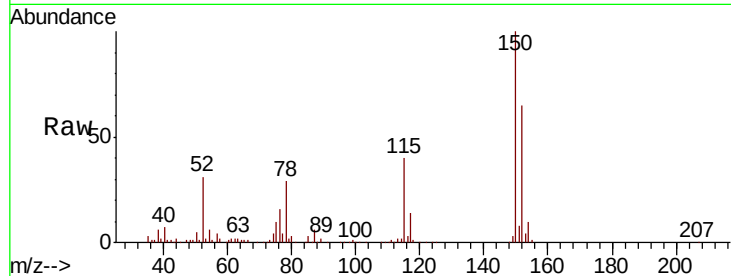




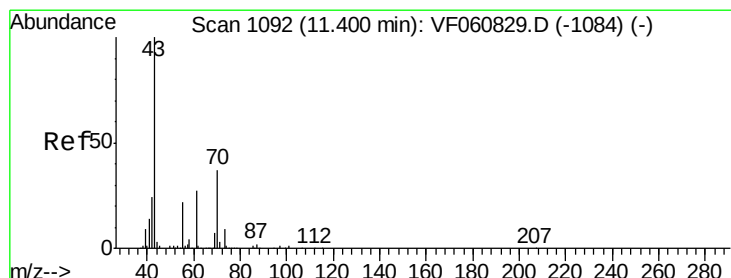
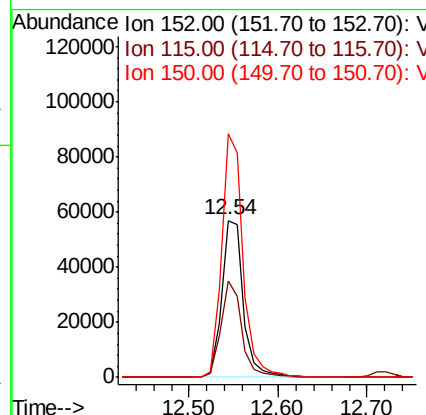
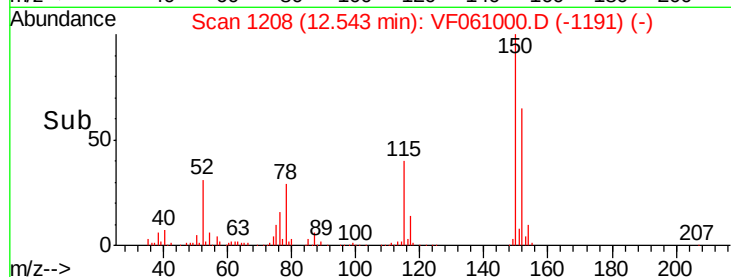
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.54 min Scan# 1208
 Delta R.T. -0.03 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-05-121118-A

Tot Ion:152 Resp: 97011
 Ion Ratio Lower Upper
 152 100
 115 61.7 30.1 90.5
 150 154.9 0.0 327.6

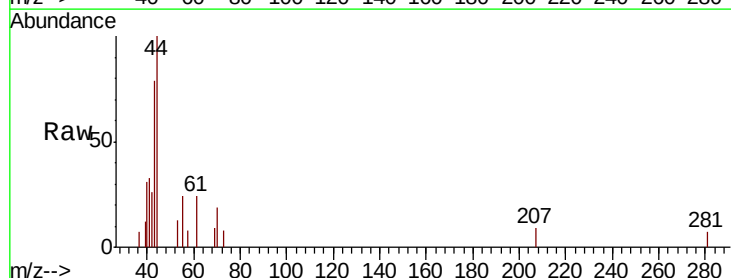


Abundance Ion 152.00 (151.70 to 152.70): V
 Ion 115.00 (114.70 to 115.70): V
 Ion 150.00 (149.70 to 150.70): V

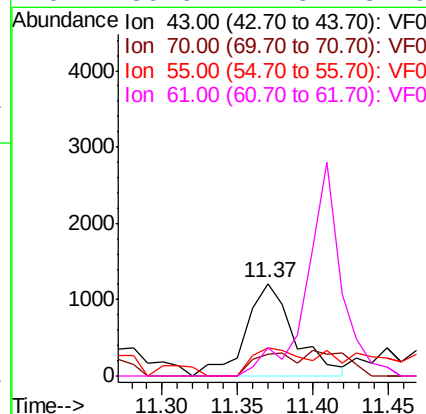
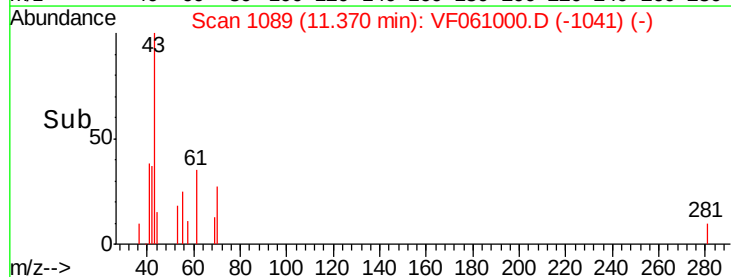


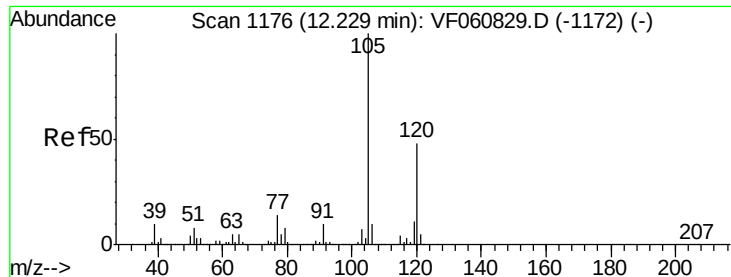
#74
 N-ethyl acetate
 Concen: 1.528 ug/l
 RT: 11.37 min Scan# 1089
 Delta R.T. -0.03 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Tgt Ion: 43 Resp: 2705
 Ion Ratio Lower Upper
 43 100
 70 23.6 29.6 44.4#
 55 30.6 17.2 25.8#
 61 30.6 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VF0
 Ion 70.00 (69.70 to 70.70): VF0
 Ion 55.00 (54.70 to 55.70): VF0
 Ion 61.00 (60.70 to 61.70): VF0

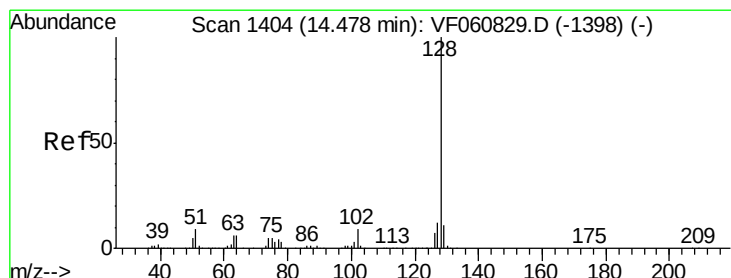
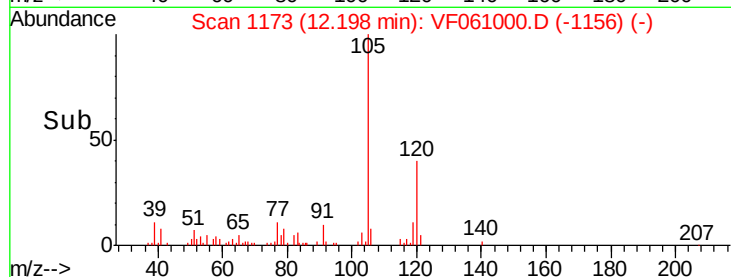
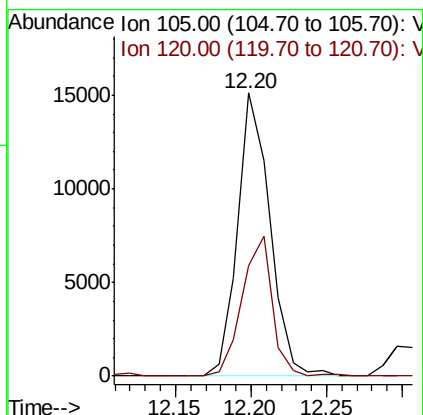
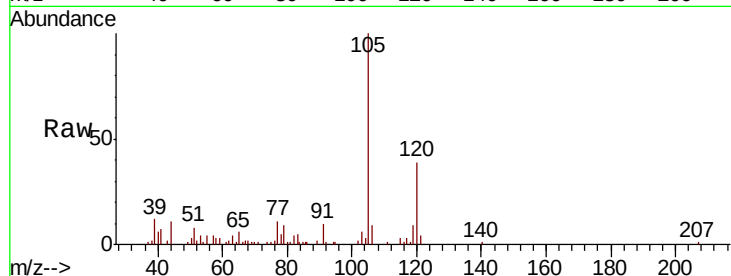




#84
 1,2,4-Trimethylbenzene
 Concen: 3.613 ug/l
 RT: 12.20 min Scan# 1173
 Delta R.T. -0.03 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Instrument :
 MSVOA_F
 ClientSampleId :
 HR-05-121118-A

Tot Ion:105 Resp: 22443
 Ion Ratio Lower Upper
 105 100
 120 38.9 23.8 71.5



#95
 Naphthalene
 Concen: 1.603 ug/l
 RT: 14.46 min Scan# 1402
 Delta R.T. -0.02 min
 Lab File: VF061000.D
 Acq: 12 Dec 2018 17:18

Tgt Ion:128 Resp: 20487
 Ion Ratio Lower Upper
 128 100
 127 12.6 9.9 14.9
 129 15.7 9.1 13.7#

