

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF121118\
 Data File : VF060984.D
 Acq On : 11 Dec 2018 18:56
 Operator : VA/AP
 Sample : J6195-07RE
 Misc : 5.31g/5mL/MSVOA-F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_F
 ClientSampleId :
 OR-02-121018-B

Quant Time: Dec 12 06:28:53 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

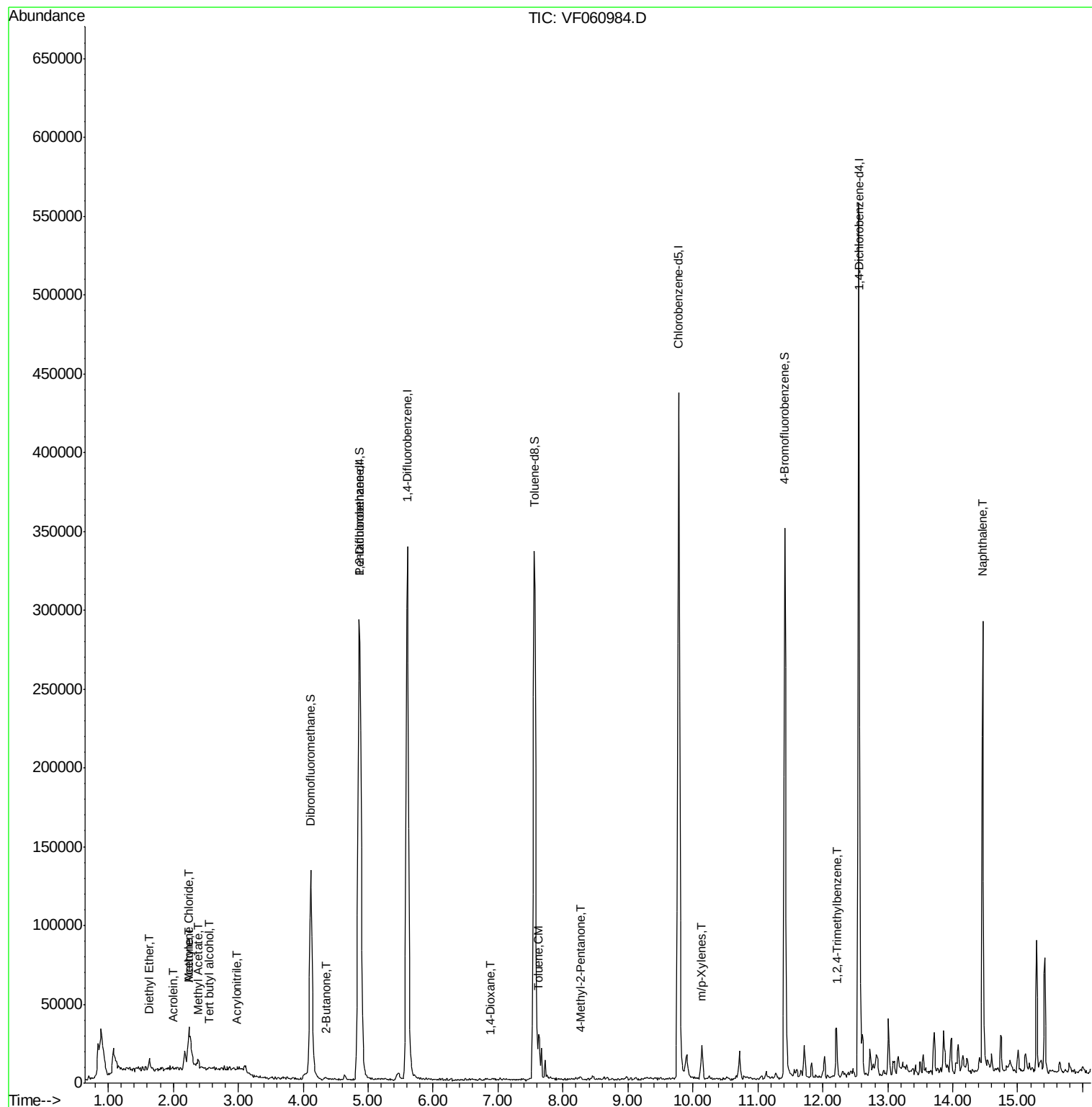
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.87	168	215231	50.00	ug/l	-0.04
34) 1,4-Difluorobenzene	5.60	114	357606	50.00	ug/l	-0.04
63) Chlorobenzene-d5	9.79	117	315247	50.00	ug/l	-0.03
72) 1,4-Dichlorobenzene-d4	12.56	152	144114	50.00	ug/l	-0.02
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.85	65	116905	46.11	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	92.22%	
35) Dibromofluoromethane	4.11	113	123940	43.69	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	87.38%	
50) Toluene-d8	7.56	98	289579	34.65	ug/l	-0.04
Spiked Amount 50.000			Recovery	=	69.30%	
62) 4-Bromofluorobenzene	11.41	95	129871	34.19	ug/l	-0.03
Spiked Amount 50.000			Recovery	=	68.38%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	1.63	74	1919	3.184	ug/l	96
11) Tert butyl alcohol	2.57	59	313	3.011	ug/l #	1
13) Acrolein	1.99	56	741	7.525	ug/l #	33
15) Acrylonitrile	2.97	53	388	1.665	ug/l #	74
16) Acetone	2.24	43	17694	37.843	ug/l	99
18) Methyl Acetate	2.37	43	2976	2.216	ug/l #	87
20) Methylene Chloride	2.24	84	11810	6.885	ug/l	93
25) 2-Butanone	4.35	43	2907	3.595	ug/l	100
41) Methacrylonitrile	4.77	41	314	Below Cal	#	23
43) Isopropyl Acetate	6.91	43	1207	Below Cal	#	49
49) 1,4-Dioxane	6.89	88	63	5.900	ug/l #	1
51) 4-Methyl-2-Pentanone	8.28	43	1677	1.128	ug/l	91
52) Toluene	7.64	92	12956	2.105	ug/l	98
68) m/p-Xylenes	10.13	106	7023	1.710	ug/l	89
84) 1,2,4-Trimethylbenzene	12.21	105	16152	1.750	ug/l	99
95) Naphthalene	14.46	128	194563	30.536	ug/l	99

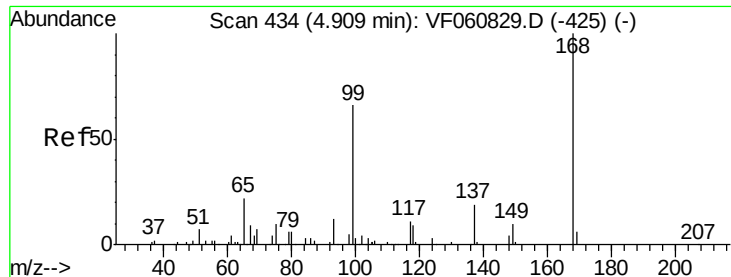
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.87 min Scan# 430

Delta R.T. -0.04 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

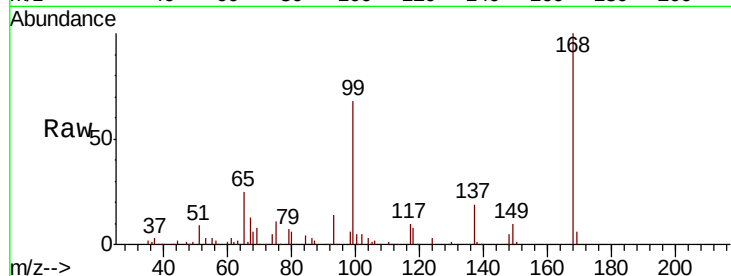
OR-02-121018-B

Tot Ion:168 Resp: 215231

Ion Ratio Lower Upper

168 100

99 67.5 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

60000

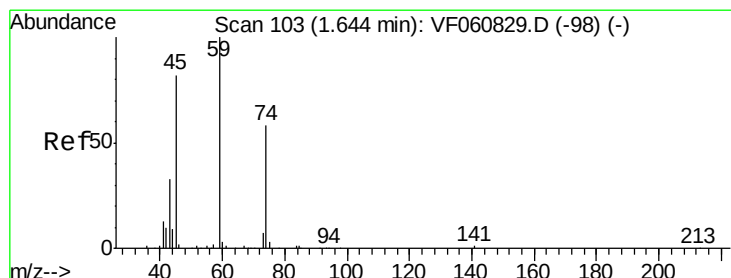
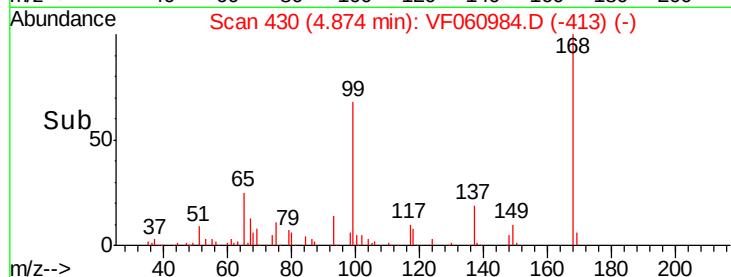
40000

20000

0

4.70 4.80 4.90 5.00 5.10

Time-->



#8

Diethyl Ether

Concen: 3.184 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.02 min

Lab File: VF060984.D

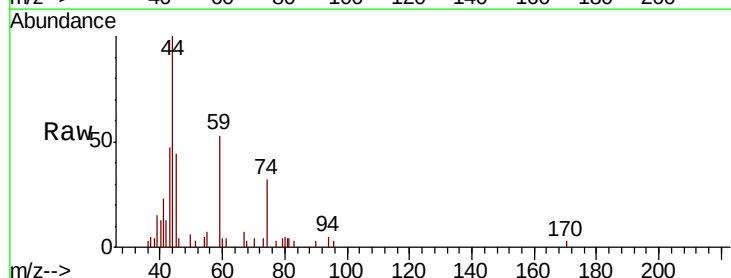
Acq: 11 Dec 2018 18:56

Tgt Ion: 74 Resp: 1919

Ion Ratio Lower Upper

74 100

45 136.8 71.0 212.8



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0

1500

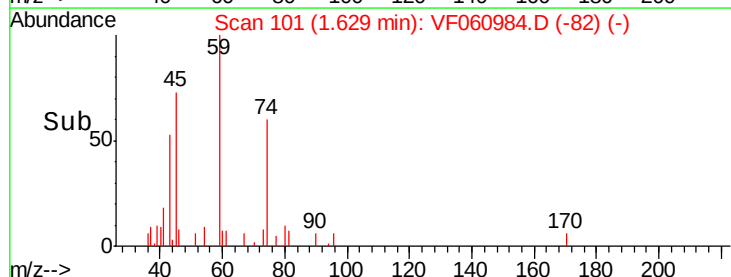
1000

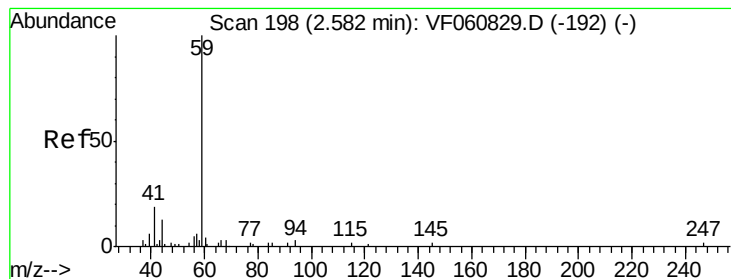
500

0

1.60 1.65 1.70

Time-->





#11

Tert butyl alcohol

Concen: 3.011 ug/l

RT: 2.57 min Scan# 196

Delta R.T. -0.02 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

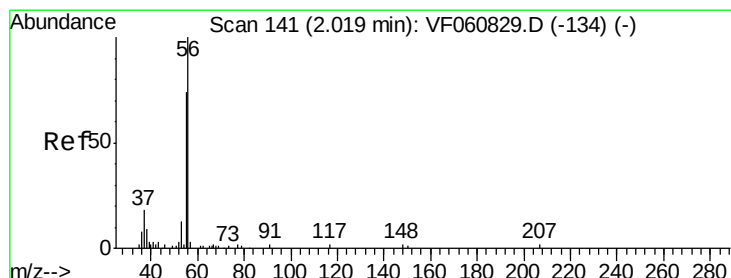
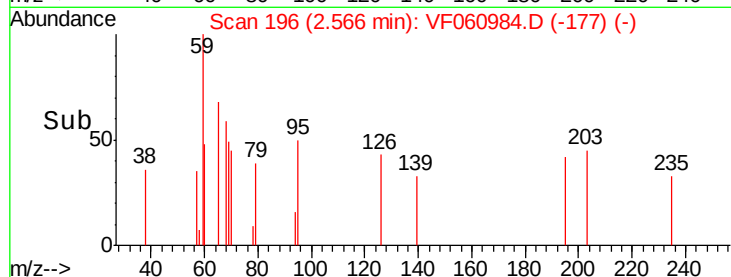
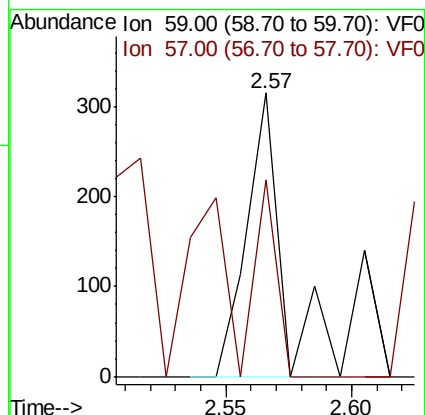
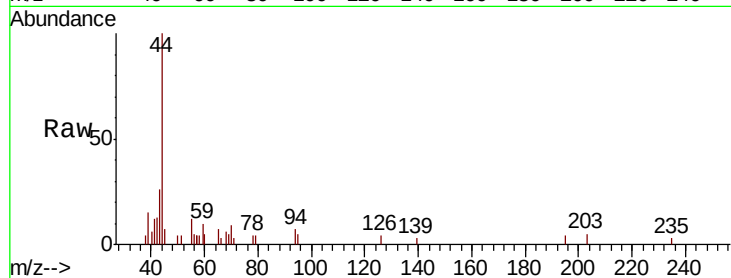
OR-02-121018-B

Tot Ion: 59 Resp: 313

Ion Ratio Lower Upper

59 100

57 69.2 12.7 19.1#



#13

Acrolein

Concen: 7.525 ug/l

RT: 1.99 min Scan# 138

Delta R.T. -0.03 min

Lab File: VF060984.D

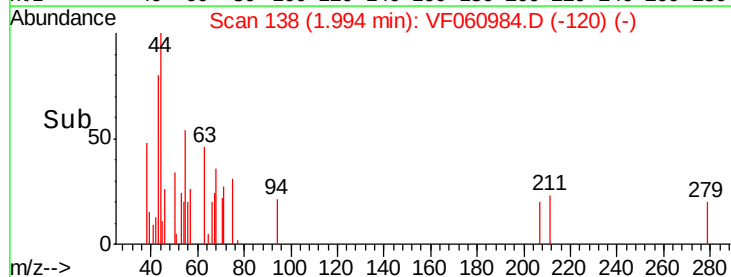
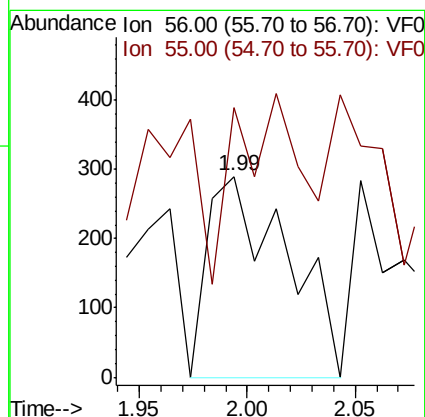
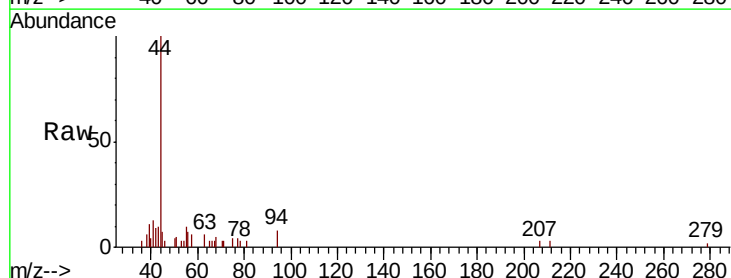
Acq: 11 Dec 2018 18:56

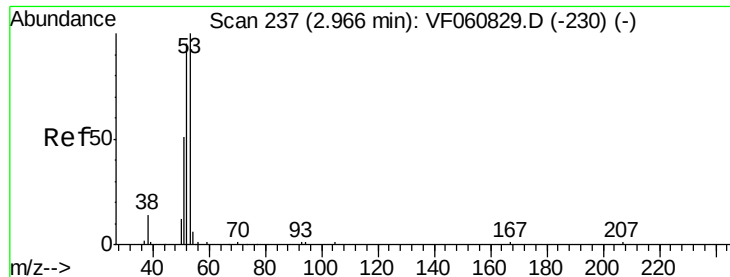
Tgt Ion: 56 Resp: 741

Ion Ratio Lower Upper

56 100

55 134.1 61.2 91.8#





#15

Acrylonitrile

Concen: 1.665 ug/l

RT: 2.97 min Scan# 237

Delta R.T. 0.00 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

OR-02-121018-B

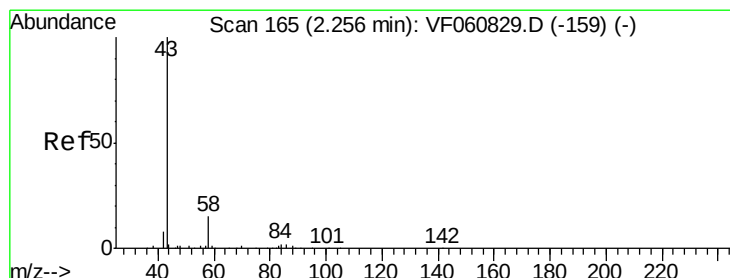
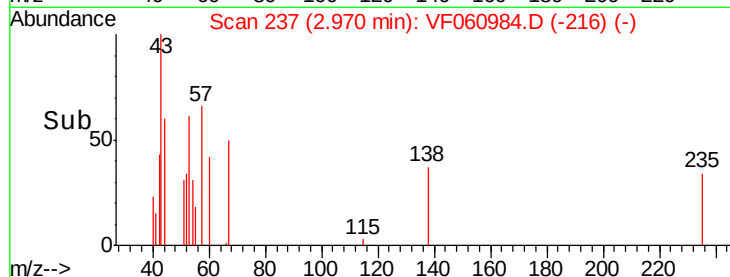
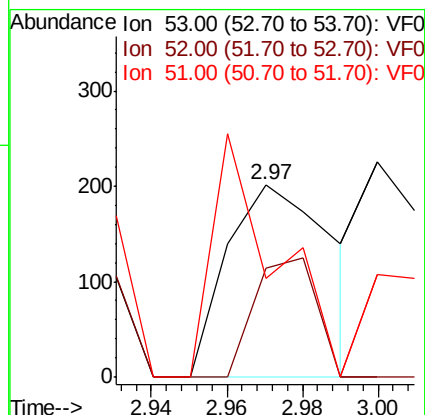
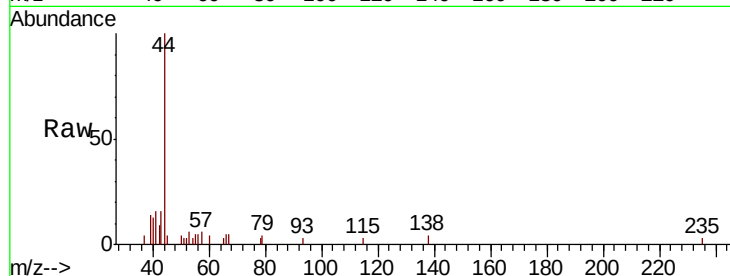
Tot Ion: 53 Resp: 388

Ion Ratio Lower Upper

53 100

52 56.4 76.5 114.7#

51 51.0 40.7 61.1



#16

Acetone

Concen: 37.843 ug/l

RT: 2.24 min Scan# 163

Delta R.T. -0.02 min

Lab File: VF060984.D

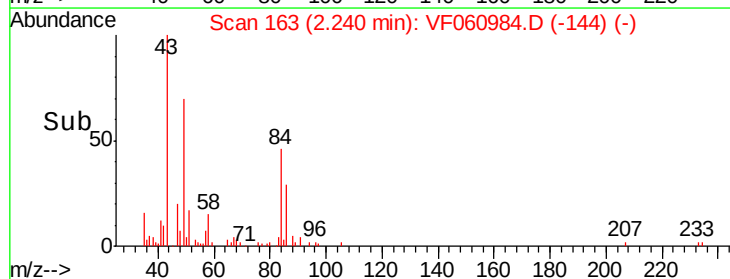
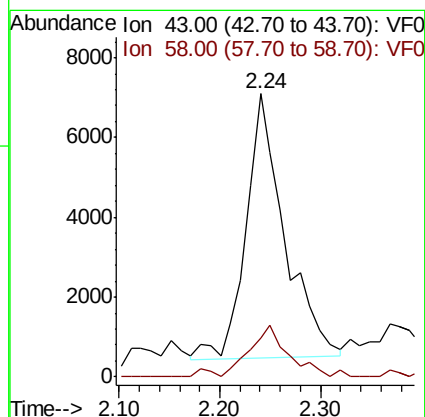
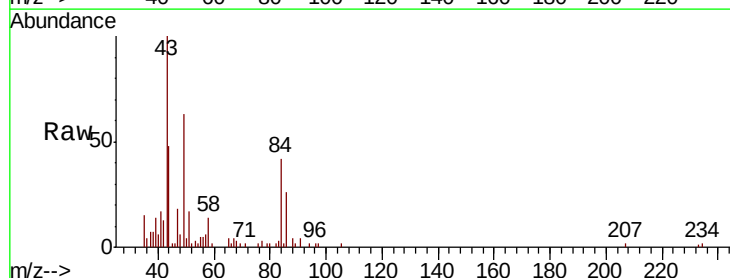
Acq: 11 Dec 2018 18:56

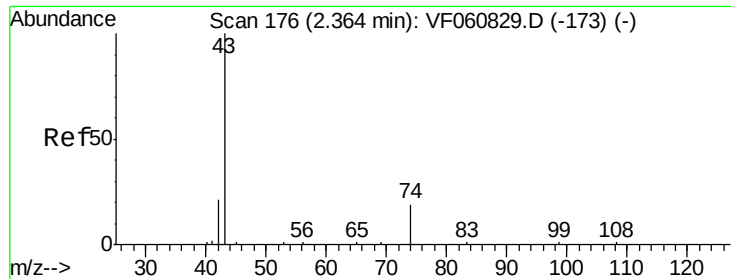
Tgt Ion: 43 Resp: 17694

Ion Ratio Lower Upper

43 100

58 13.9 11.4 17.2

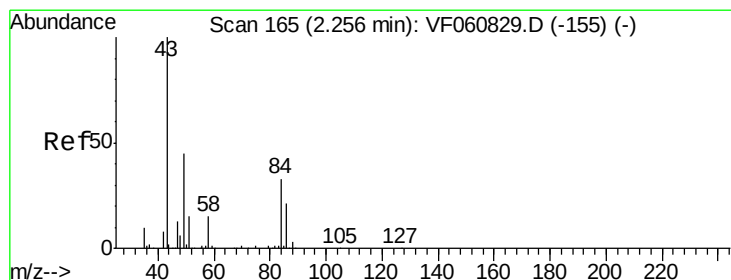
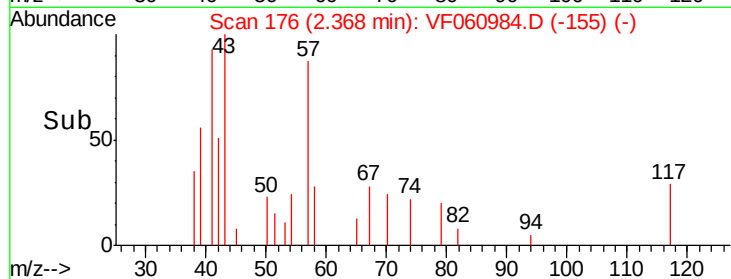
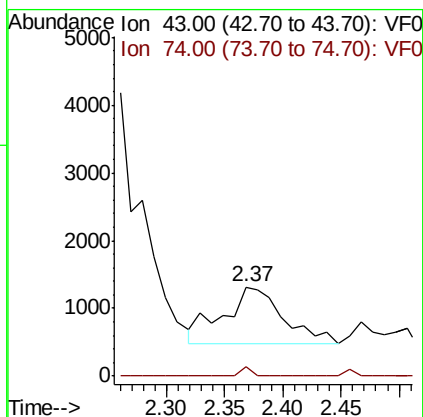
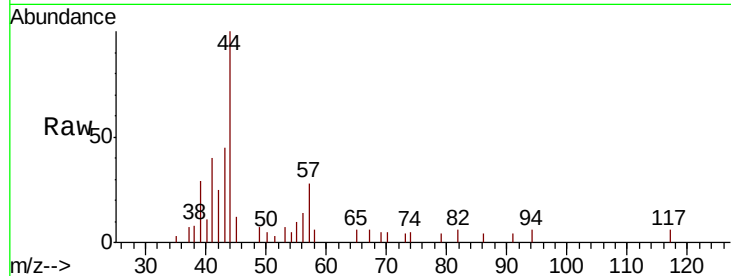




#18
Methvl Acetate
Concen: 2.216 ug/l
RT: 2.37 min Scan# 176
Delta R.T. 0.00 min
Lab File: VF060984.D
Acq: 11 Dec 2018 18:56

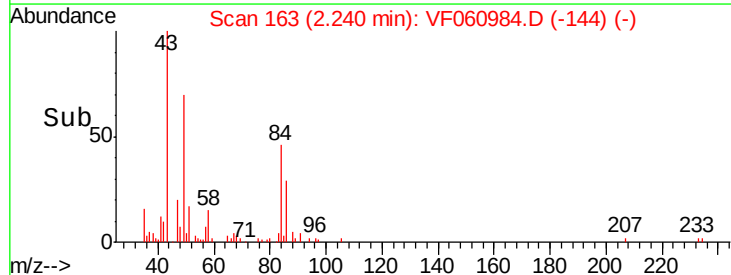
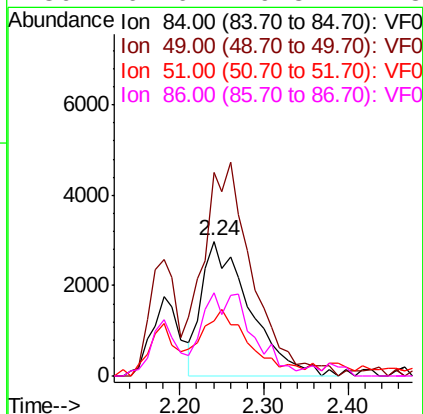
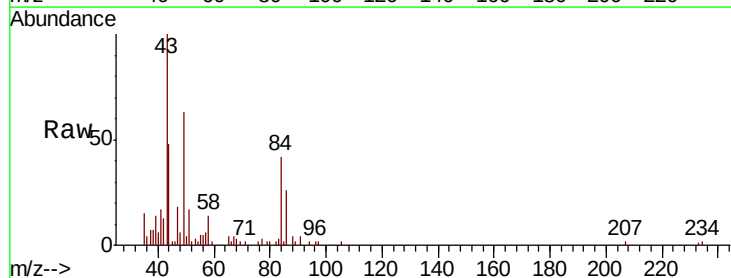
Instrument :
MSVOA_F
ClientSampleId :
OR-02-121018-B

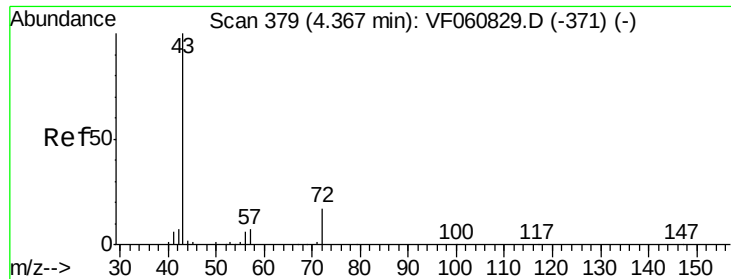
Tot Ion: 43 Resp: 2976
Ion Ratio Lower Upper
43 100
74 10.8 13.3 19.9#



#20
Methylene Chloride
Concen: 6.885 ug/l
RT: 2.24 min Scan# 163
Delta R.T. -0.02 min
Lab File: VF060984.D
Acq: 11 Dec 2018 18:56

Tgt Ion: 84 Resp: 11810
Ion Ratio Lower Upper
84 100
49 150.9 111.3 166.9
51 41.3 38.0 57.0
86 61.6 49.8 74.8





#25

2-Butanone

Concen: 3.595 ug/l

RT: 4.35 min Scan# 377

Delta R.T. -0.02 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

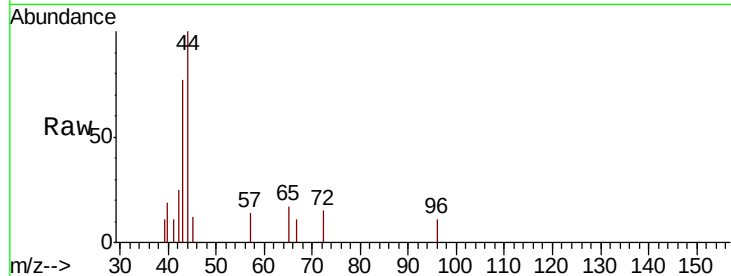
OR-02-121018-B

Tot Ion: 43 Resp: 2907

Ion Ratio Lower Upper

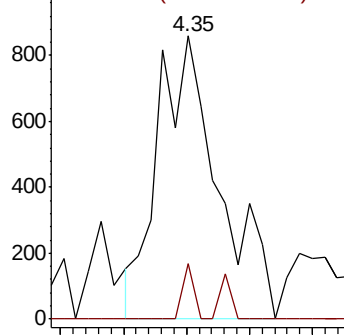
43 100

72 19.4 15.4 23.2

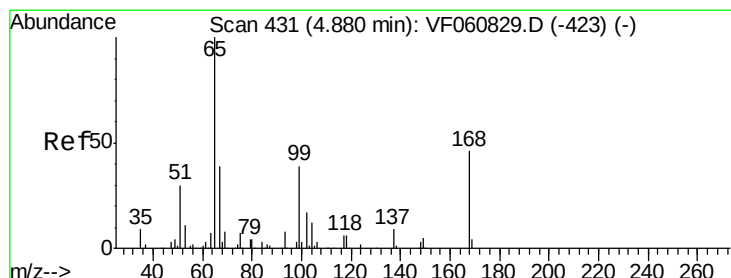
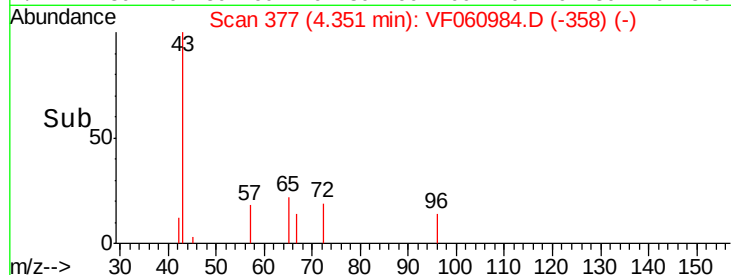


Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 72.00 (71.70 to 72.70): VF0



Time-->



#33

1,2-Dichloroethane-d4

Concen: 46.107 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.03 min

Lab File: VF060984.D

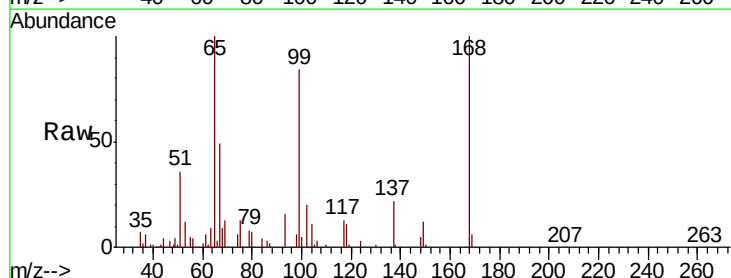
Acq: 11 Dec 2018 18:56

Tgt Ion: 65 Resp: 116905

Ion Ratio Lower Upper

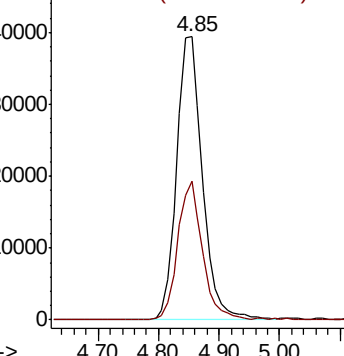
65 100

67 48.9 0.0 96.4

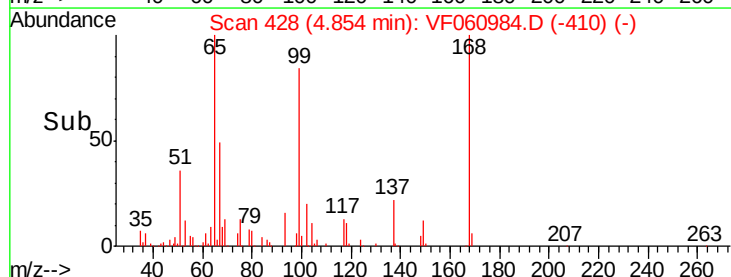


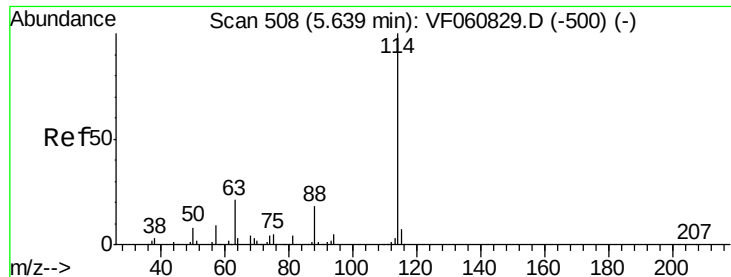
Abundance Ion 65.00 (64.70 to 65.70): VF0

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: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

OR-02-121018-B

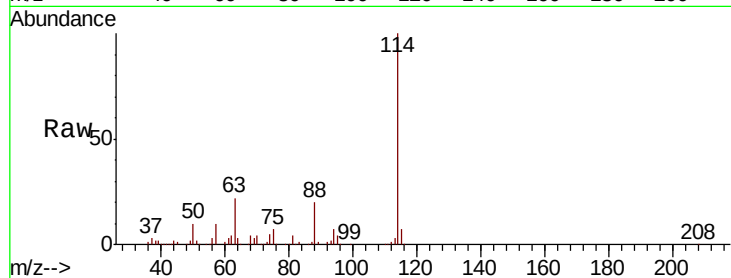
Tot Ion:114 Resp: 357606

Ion Ratio Lower Upper

114 100

63 22.0 0.0 41.6

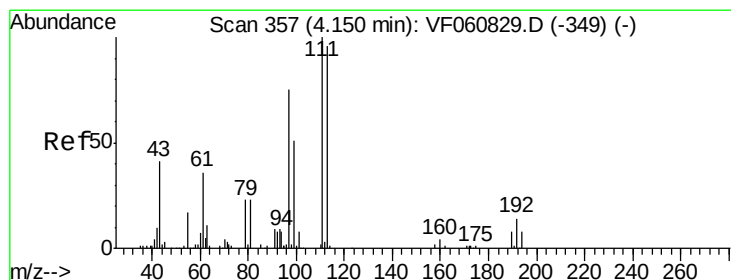
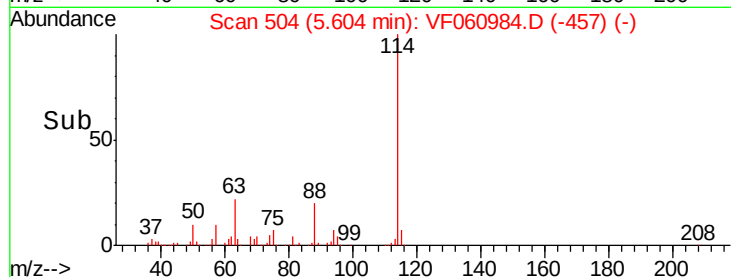
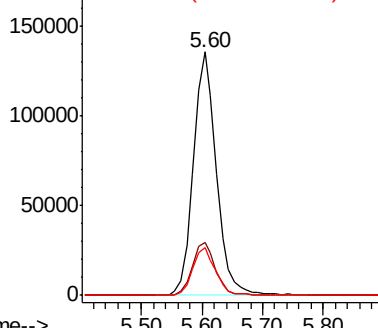
88 19.7 0.0 36.6



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: 43.687 ug/l

RT: 4.11 min Scan# 353

Delta R.T. -0.04 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

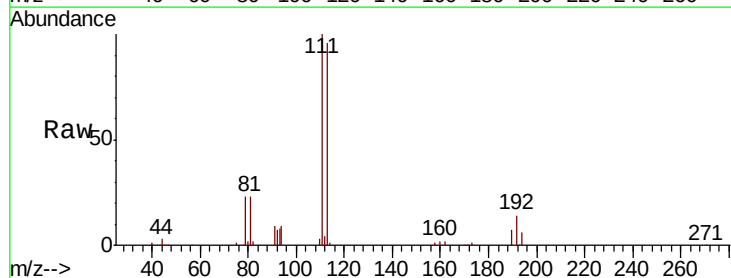
Tgt Ion:113 Resp: 123940

Ion Ratio Lower Upper

113 100

111 104.1 83.0 124.6

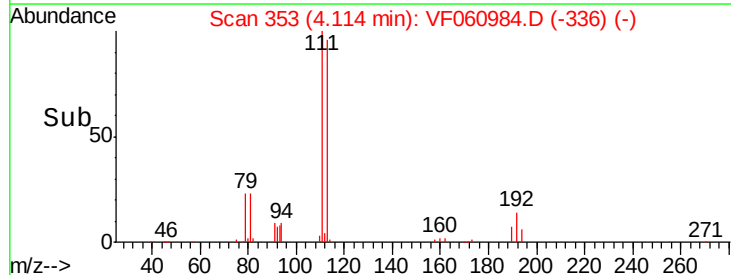
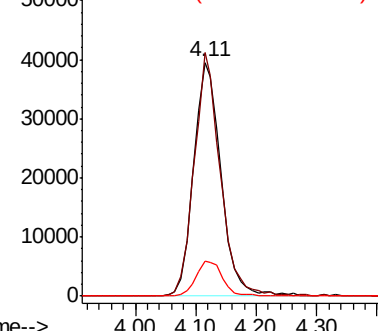
192 14.9 12.3 18.5

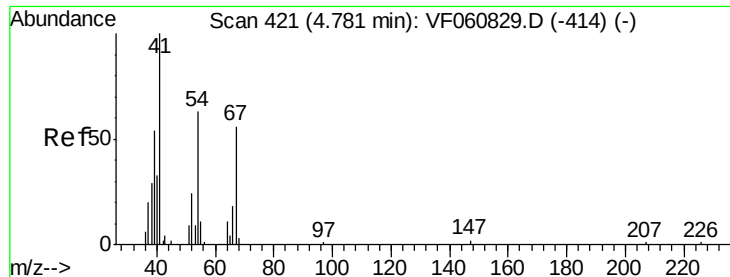


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V

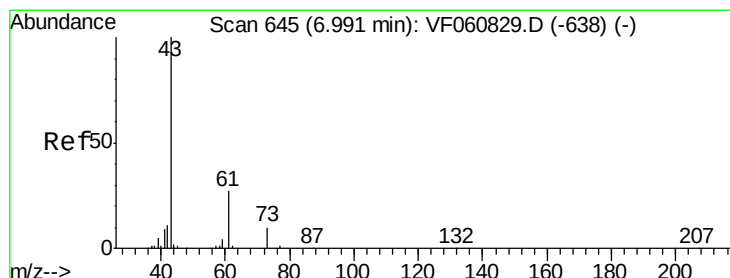
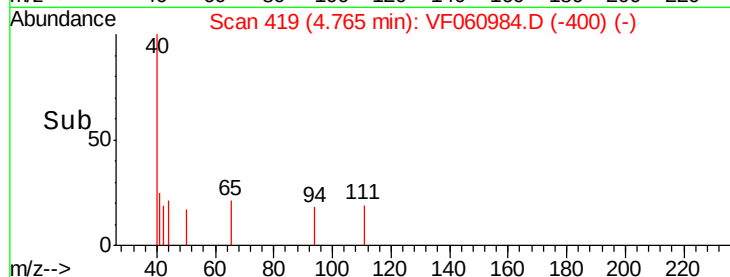
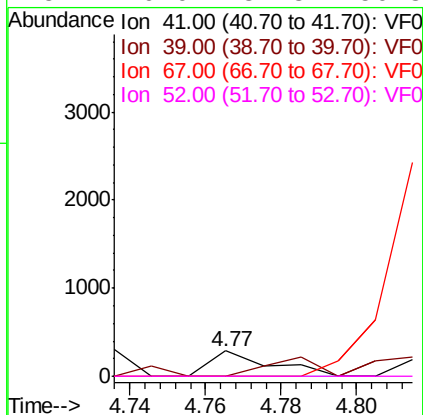
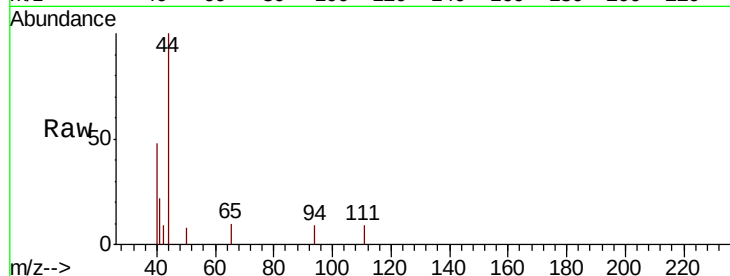




#41
Methacrylonitrile
Concen: Below Cal
RT: 4.77 min Scan# 419
Delta R.T. -0.02 min
Lab File: VF060984.D
Acq: 11 Dec 2018 18:56

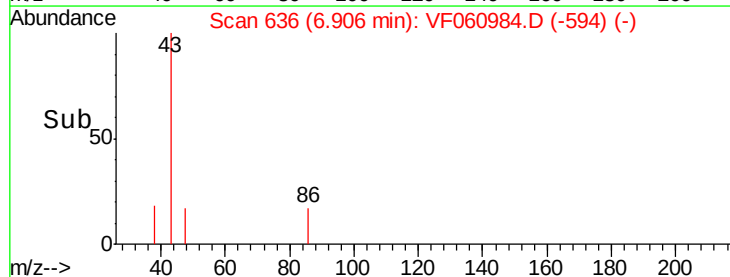
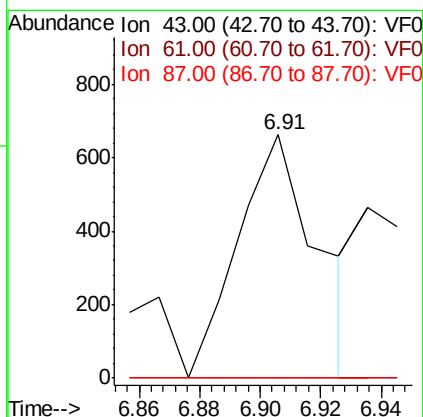
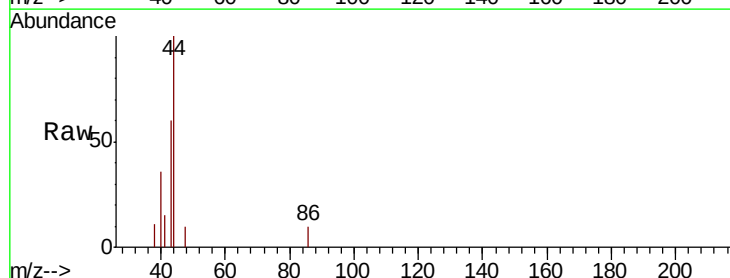
Instrument :
MSVOA_F
ClientSampleId :
OR-02-121018-B

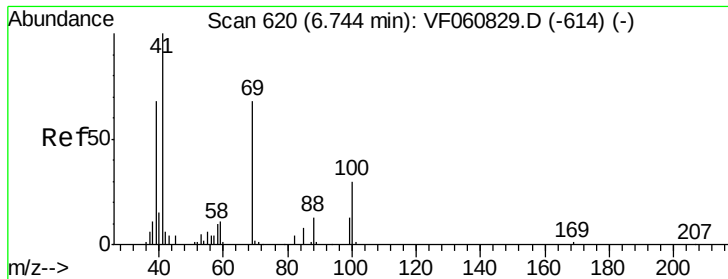
Tot Ion:	41	Resp:	314
Ion	Ratio	Lower	Upper
41	100		
39	0.0	53.0	79.6#
67	0.0	43.8	65.6#
52	0.0	37.8	56.8#



#43
Isopropyl Acetate
Concen: Below Cal
RT: 6.91 min Scan# 636
Delta R.T. -0.08 min
Lab File: VF060984.D
Acq: 11 Dec 2018 18:56

Tgt Ion:	43	Resp:	1207
Ion	Ratio	Lower	Upper
43	100		
61	0.0	21.4	32.0#
87	0.0	0.2	0.4#





#49

1,4-Dioxane

Concen: 5.900 ug/l

RT: 6.89 min Scan# 634

Delta R.T. 0.14 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

OR-02-121018-B

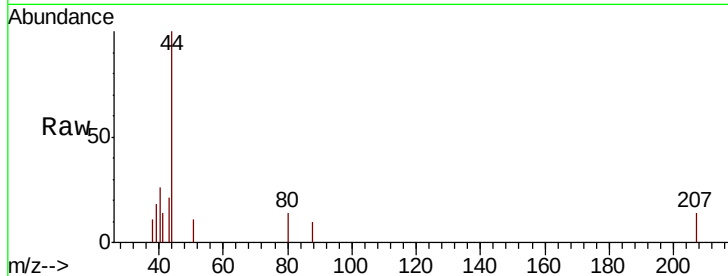
Tot Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 200.9 42.0 63.0#

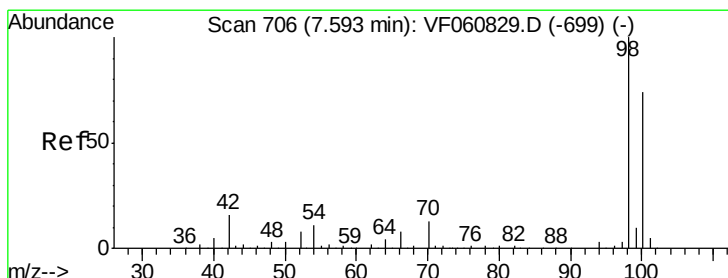
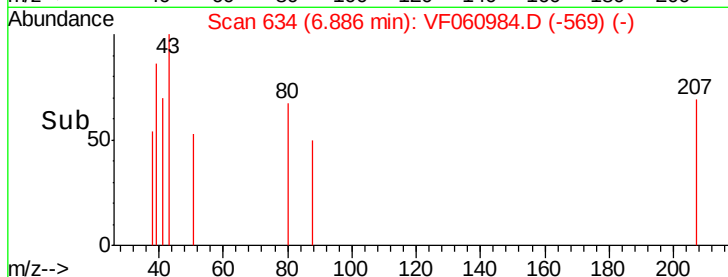
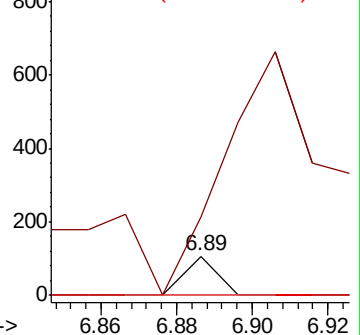
58 0.0 61.8 92.8#



Abundance Ion 88.00 (87.70 to 88.70): VF0

Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#50

Toluene-d8

Concen: 34.652 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.04 min

Lab File: VF060984.D

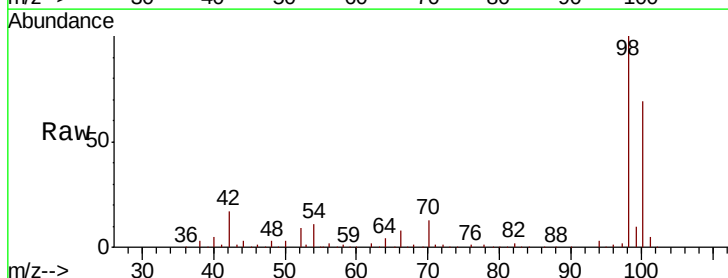
Acq: 11 Dec 2018 18:56

Tgt Ion: 98 Resp: 289579

Ion Ratio Lower Upper

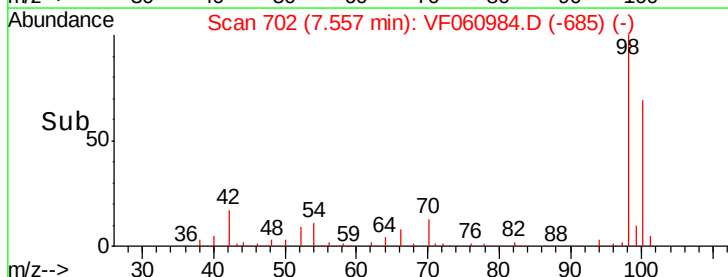
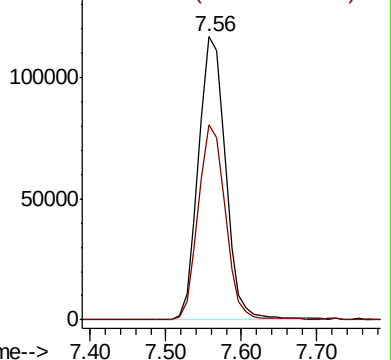
98 100

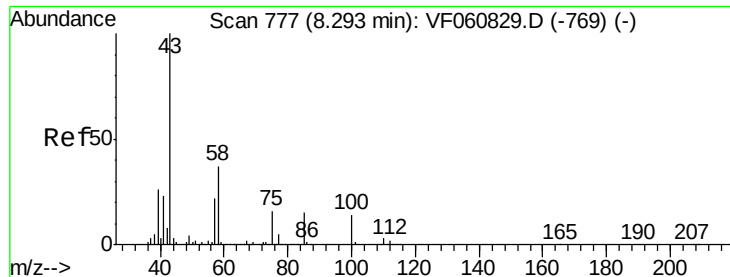
100 68.9 59.3 88.9



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#51

4-Methyl-2-Pentanone

Concen: 1.128 ug/l

RT: 8.28 min Scan# 775

Delta R.T. -0.02 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

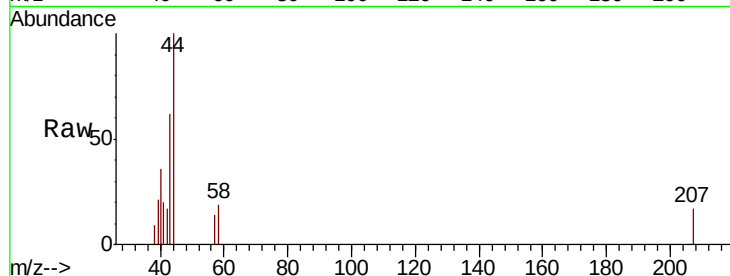
OR-02-121018-B

Tot Ion: 43 Resp: 1677

Ion Ratio Lower Upper

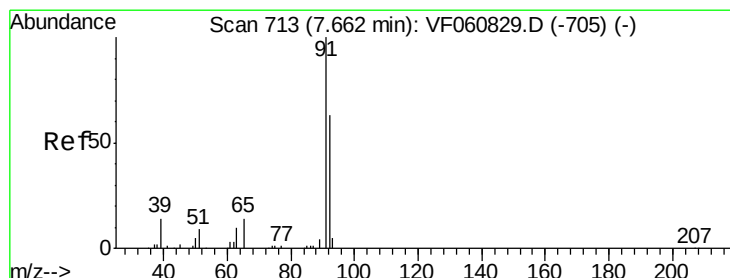
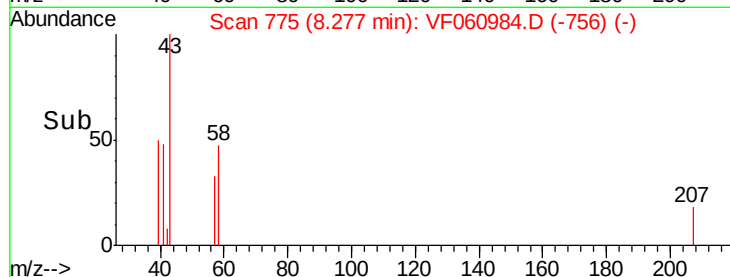
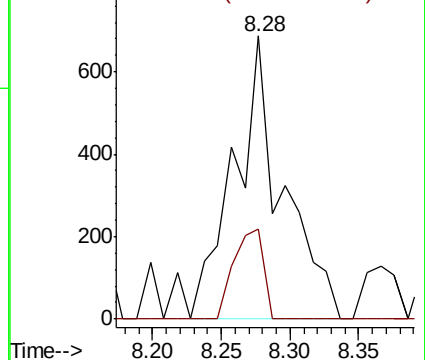
43 100

58 31.6 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: 2.105 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.03 min

Lab File: VF060984.D

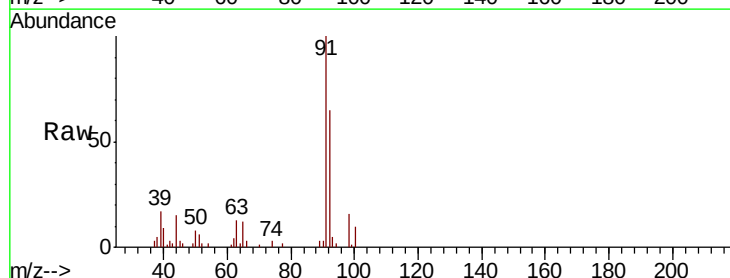
Acq: 11 Dec 2018 18:56

Tgt Ion: 92 Resp: 12956

Ion Ratio Lower Upper

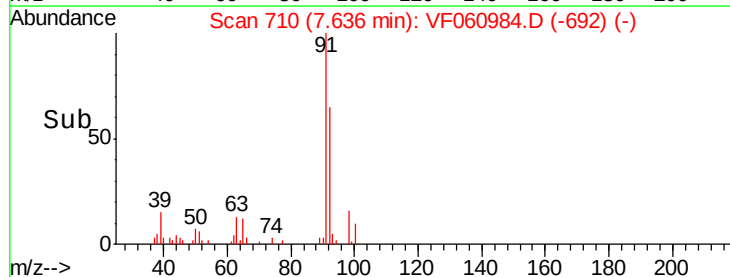
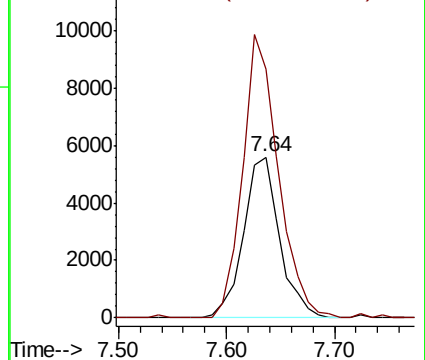
92 100

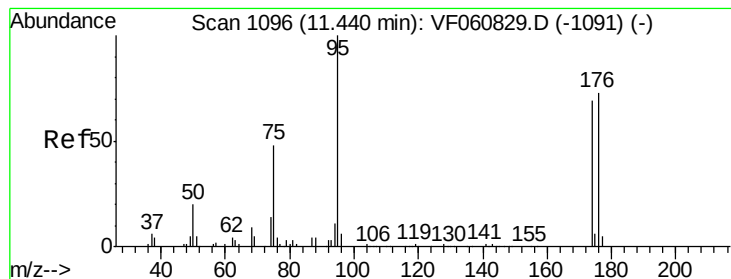
91 154.6 126.2 189.2



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0





#62

4-Bromofluorobenzene

Concen: 34.194 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.03 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

OR-02-121018-B

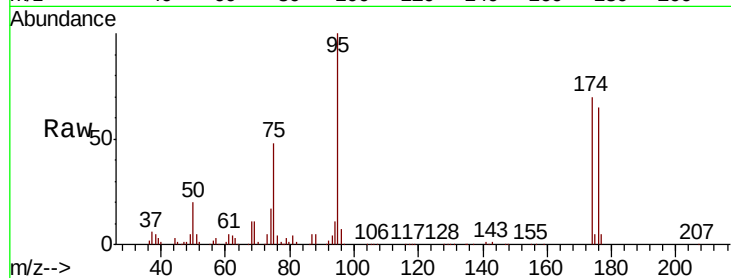
Tot Ion: 95 Resp: 129871

Ion Ratio Lower Upper

95 100

174 70.4 0.0 138.2

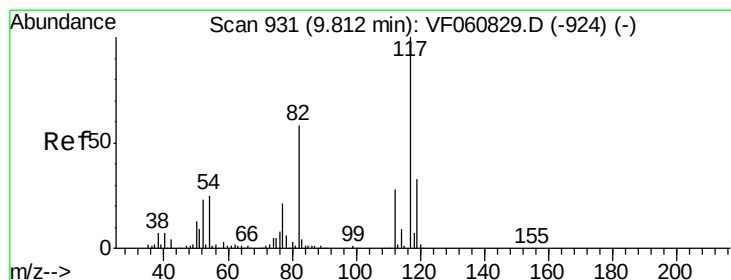
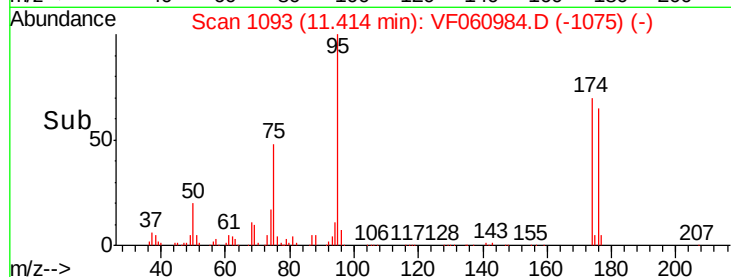
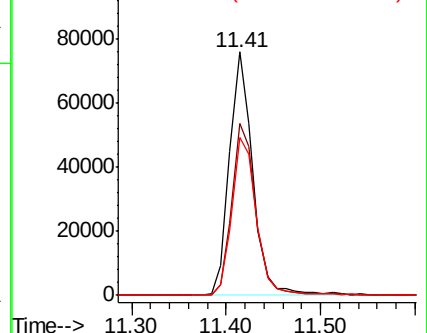
176 64.6 0.0 146.2



Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

Ion 176.00 (175.70 to 176.70): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.79 min Scan# 928

Delta R.T. -0.03 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

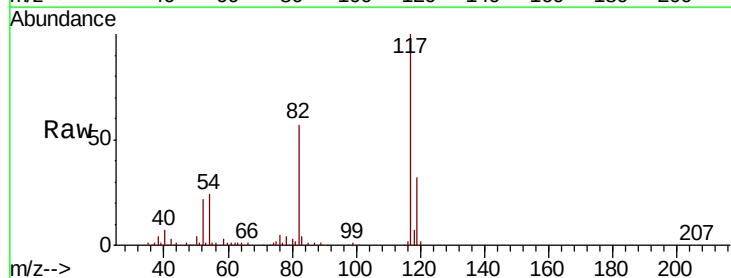
Tgt Ion: 117 Resp: 315247

Ion Ratio Lower Upper

117 100

82 57.2 46.6 69.8

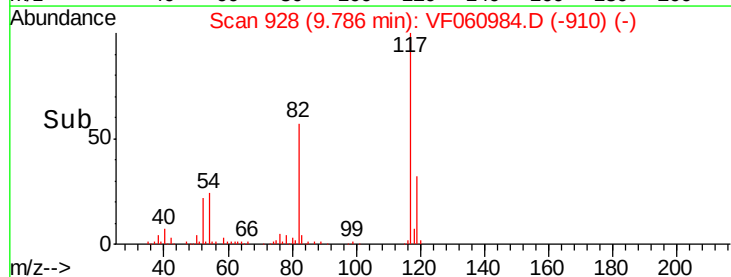
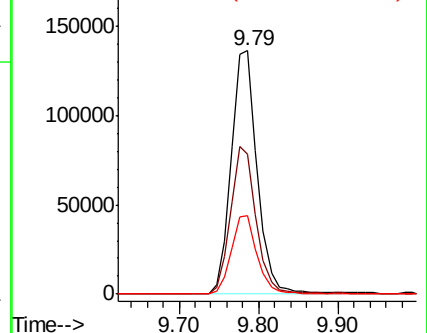
119 32.5 26.4 39.6

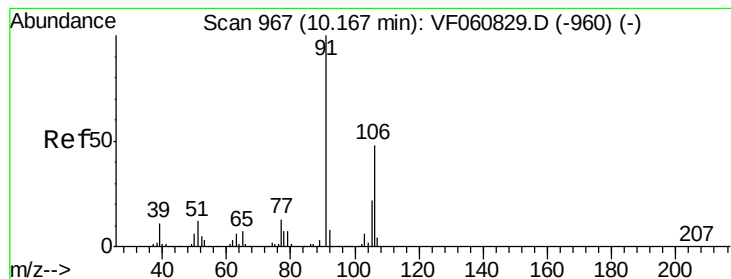


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V





#68

m/p-Xylenes

Concen: 1.710 ug/l

RT: 10.13 min Scan# 963

Delta R.T. -0.04 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

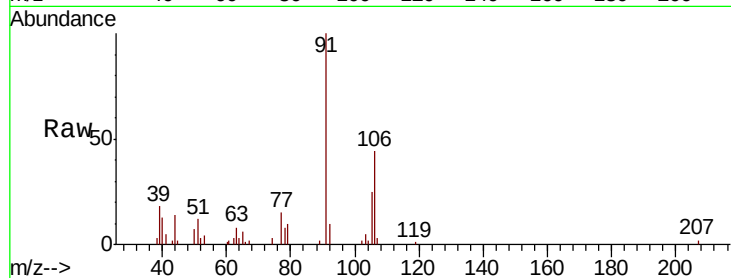
OR-02-121018-B

Tot Ion:106 Resp: 7023

Ion Ratio Lower Upper

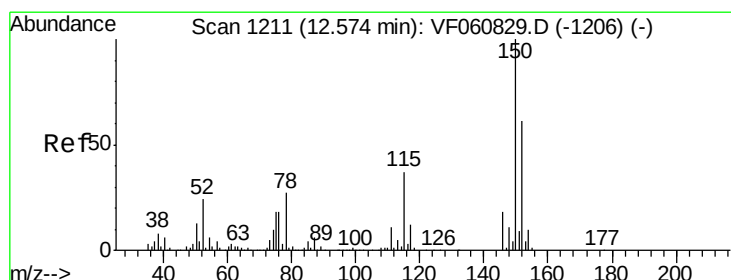
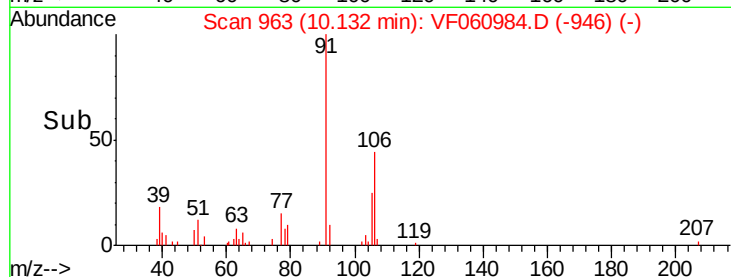
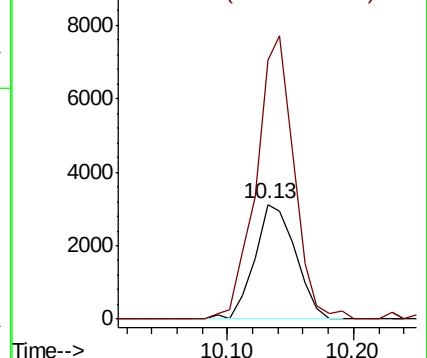
106 100

91 225.4 166.7 250.1



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: 12.56 min Scan# 1209

Delta R.T. -0.02 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

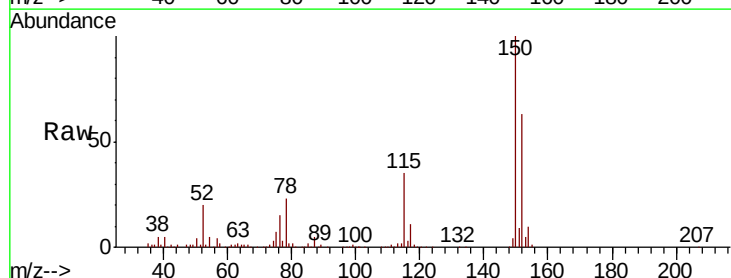
Tgt Ion:152 Resp: 144114

Ion Ratio Lower Upper

152 100

115 55.4 30.1 90.5

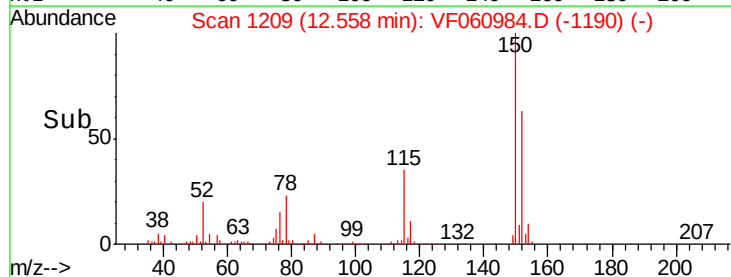
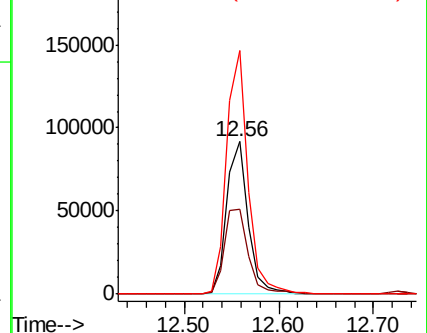
150 160.0 0.0 327.6

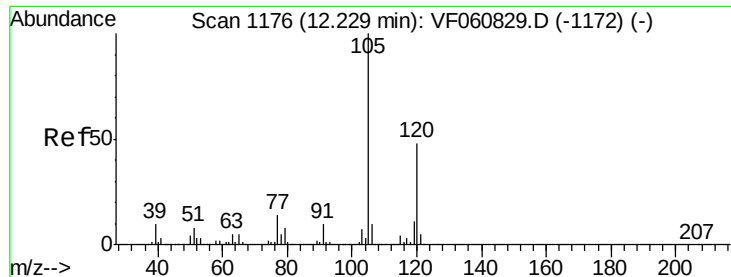


Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.750 ug/l

RT: 12.21 min Scan# 1174

Delta R.T. -0.02 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

Instrument :

MSVOA_F

ClientSampleId :

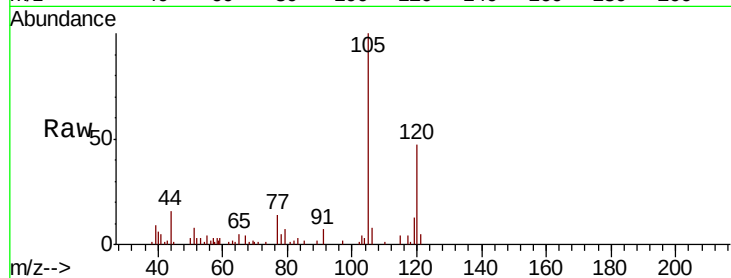
OR-02-121018-B

Tot Ion:105 Resp: 16152

Ion Ratio Lower Upper

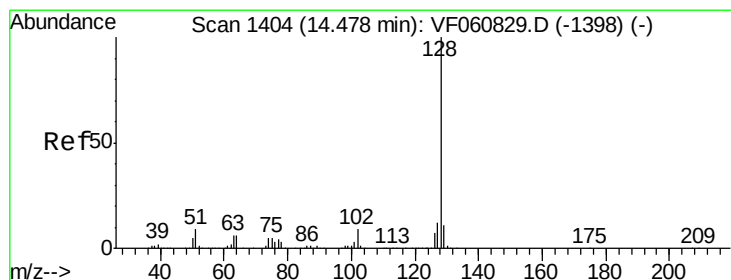
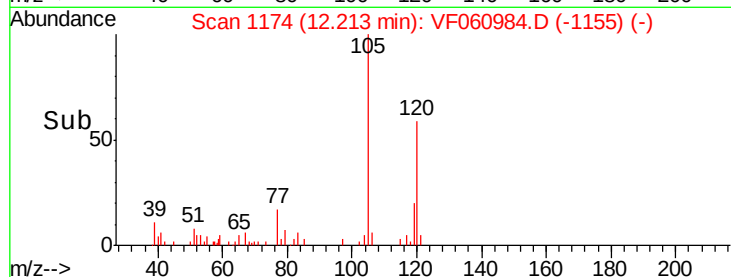
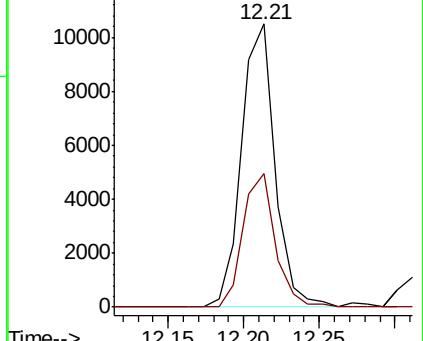
105 100

120 47.2 23.8 71.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 30.536 ug/l

RT: 14.46 min Scan# 1402

Delta R.T. -0.01 min

Lab File: VF060984.D

Acq: 11 Dec 2018 18:56

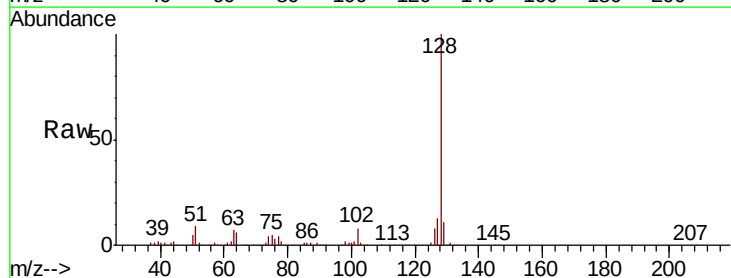
Tgt Ion:128 Resp: 194563

Ion Ratio Lower Upper

128 100

127 12.9 9.9 14.9

129 10.7 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

