

Data File : VF061313.D
Acq On : 9 Jan 2019 20:58
Operator : VA/AP
Sample : K1087-06
Misc : 5.61g/5mL/MSVOA-F/SOIL
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_F
ClientSampleId :
MH-447-7.0-8.0

Quant Time: Jan 10 06:00:07 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_F\METHODS\82F010819S.M
Quant Title : SW846 8260
QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.89	168	179829	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	5.61	114	312198	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.80	117	286965	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	151956	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	4.86	65	102816	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
35) Dibromofluoromethane	4.12	113	120988	50.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.30%	
50) Toluene-d8	7.57	98	330361	46.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.46%	
62) 4-Bromofluorobenzene	11.42	95	151684	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	

Target Compounds

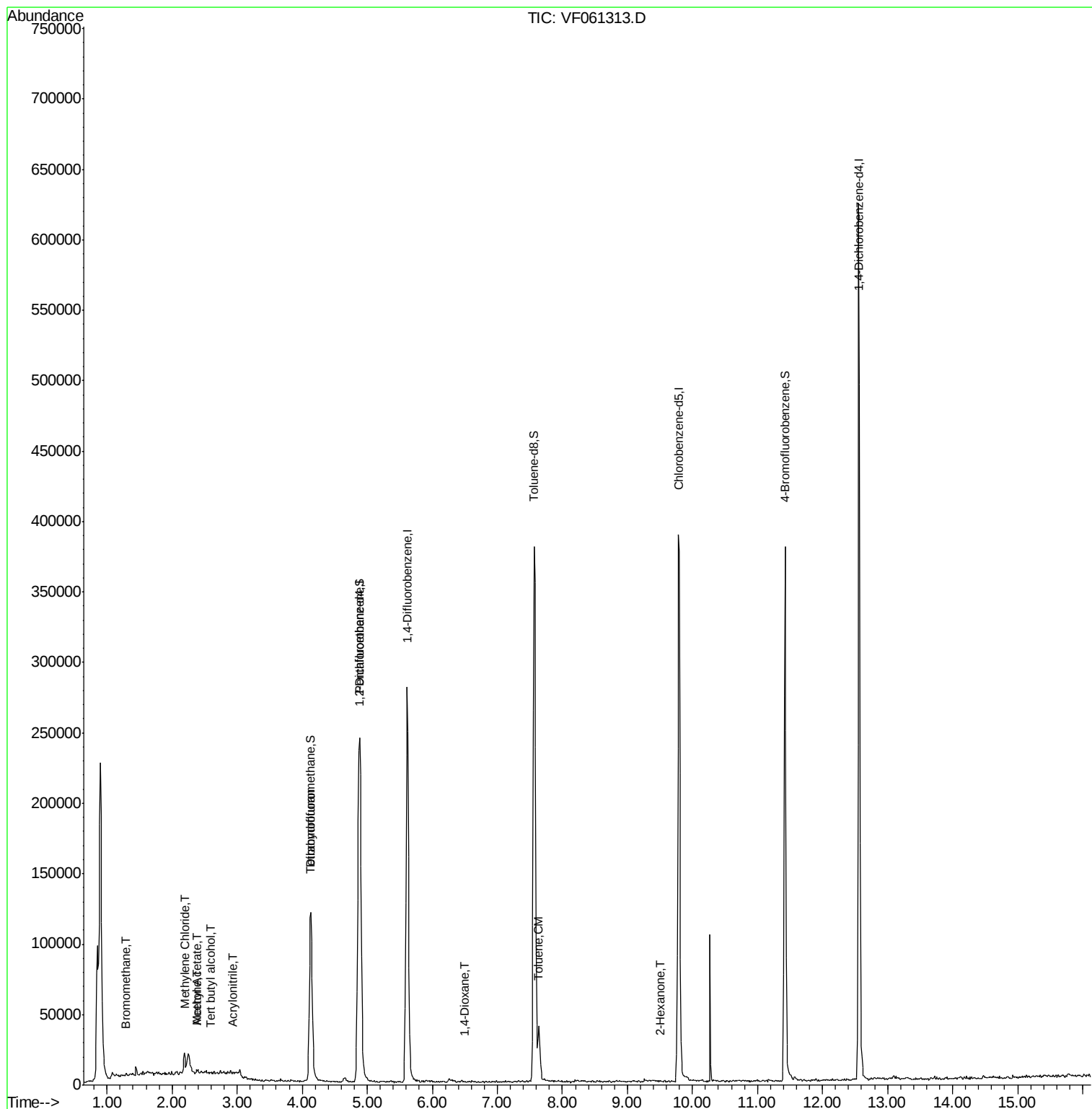
					Qvalue	
5) Bromomethane	1.30	94	698	3.199	ug/l #	65
11) Tert butyl alcohol	2.58	59	163	2.034	ug/l #	12
13) Acrolein	1.99	56	320	Below Cal		99
15) Acrylonitrile	2.95	53	310	1.091	ug/l #	12
16) Acetone	2.38	43	1933	4.151	ug/l	95
18) Methyl Acetate	2.38	43	2974	3.246	ug/l #	65
20) Methylene Chloride	2.19	84	6012	3.052	ug/l	85
29) Tetrahydrofuran	4.11	42	395	1.261	ug/l #	67
49) 1,4-Dioxane	6.48	88	63	8.776	ug/l #	1
52) Toluene	7.63	92	19752	3.610	ug/l	95
59) 2-Hexanone	9.52	43	1027	1.096	ug/l	80

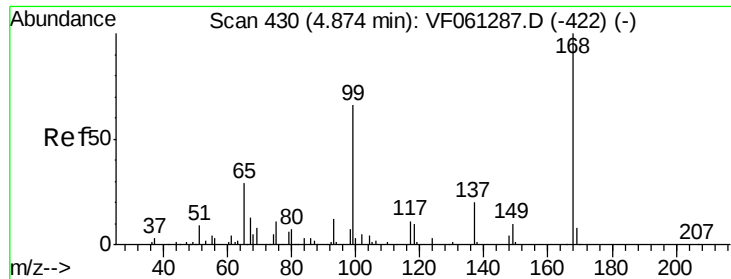
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jan 09 07:13:51 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.89 min Scan# 432

Delta R.T. 0.02 min

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Instrument :

MSVOA_F

ClientSampleId :

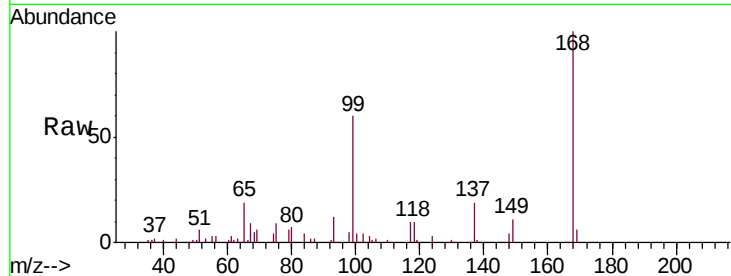
MH-447-7.0-8.0

Tgt Ion:168 Resp: 179829

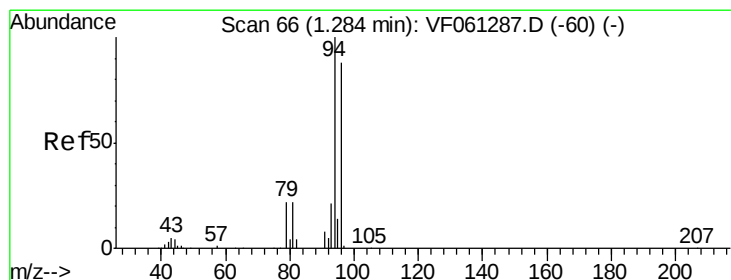
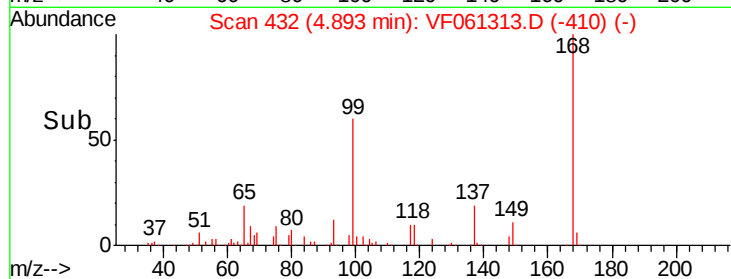
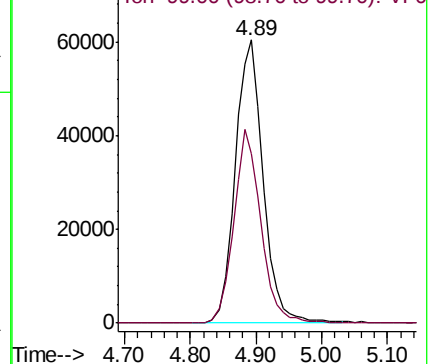
Ion Ratio Lower Upper

168 100

99 59.8 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0



#5

Bromomethane

Concen: 3.199 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061313.D

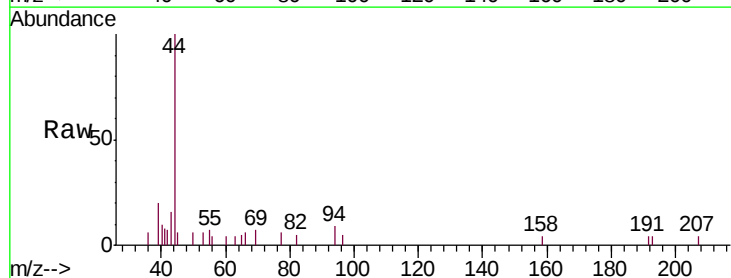
Acq: 9 Jan 2019 20:58

Tgt Ion: 94 Resp: 698

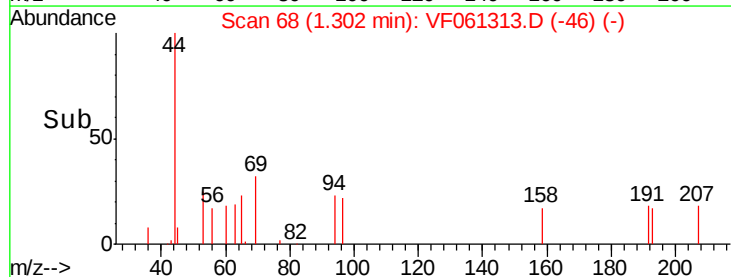
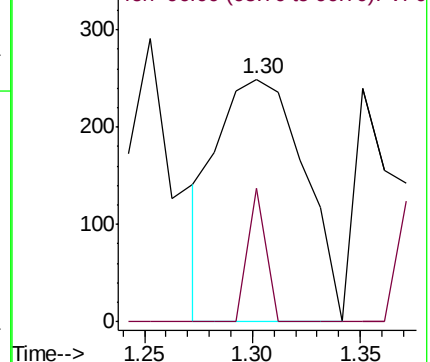
Ion Ratio Lower Upper

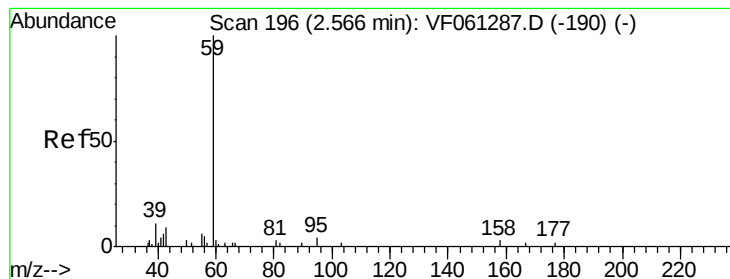
94 100

96 55.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0



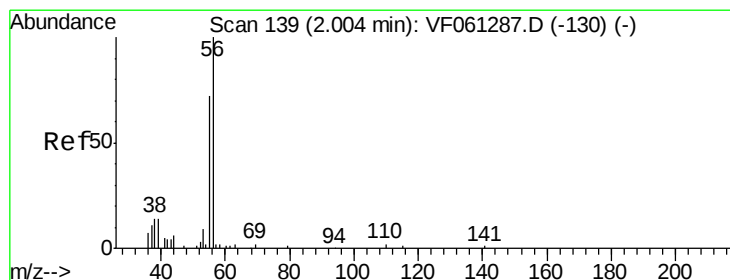
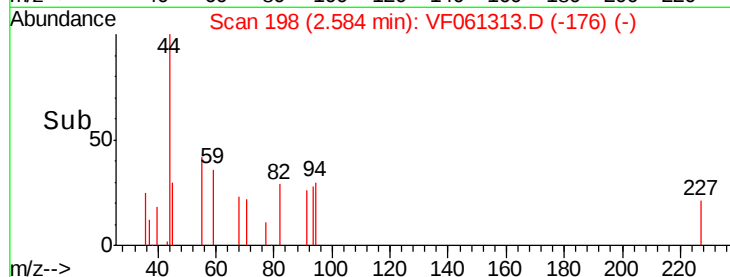
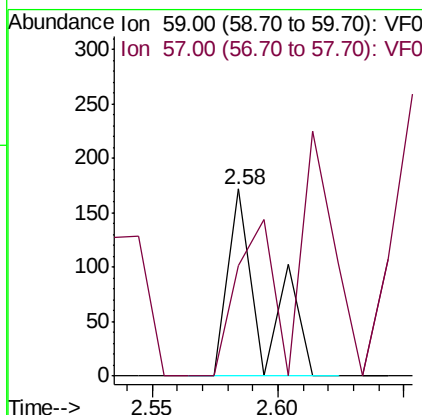
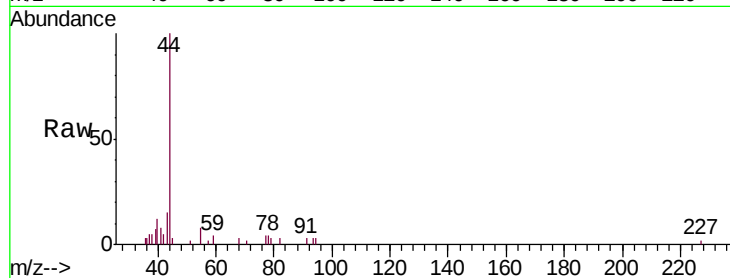


#11

Tert butyl alcohol
 Concen: 2.034 ug/l
 RT: 2.58 min Scan# 198
 Delta R.T. 0.02 min
 Lab File: VF061313.D
 Acq: 9 Jan 2019 20:58

Instrument :
 MSVOA_F
 ClientSampleId :
 MH-447-7.0-8.0

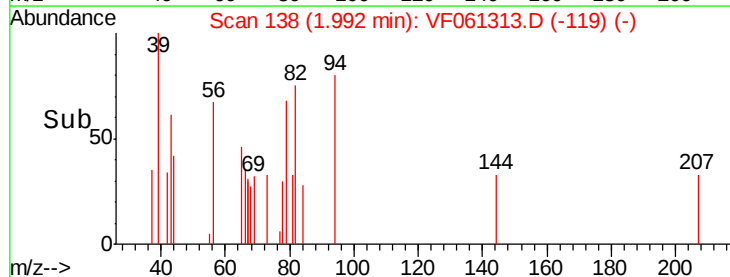
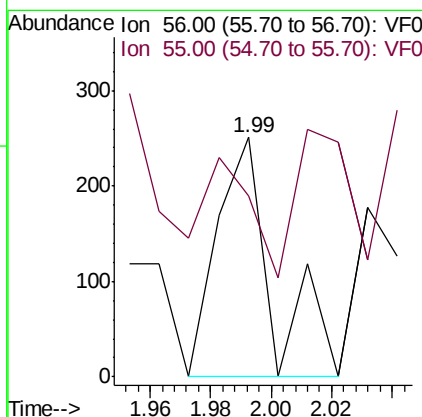
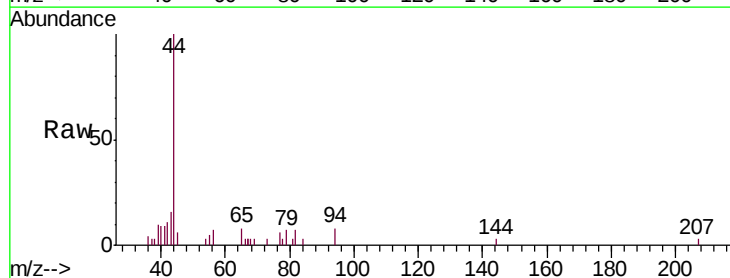
Tgt Ion: 59 Resp: 163
 Ion Ratio Lower Upper
 59 100
 57 58.7 15.1 22.7#

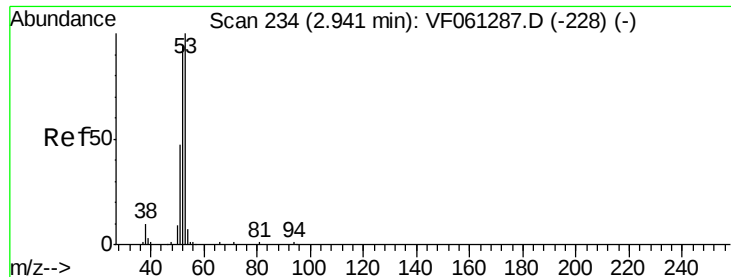


#13

Acrolein
 Concen: Below Cal
 RT: 1.99 min Scan# 138
 Delta R.T. -0.01 min
 Lab File: VF061313.D
 Acq: 9 Jan 2019 20:58

Tgt Ion: 56 Resp: 320
 Ion Ratio Lower Upper
 56 100
 55 75.3 59.4 89.0





#15

Acrylonitrile

Concen: 1.091 ug/l

RT: 2.95 min Scan# 235

Delta R.T. 0.01 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

Instrument :

MSVOA_F

ClientSampleId :

MH-447-7.0-8.0

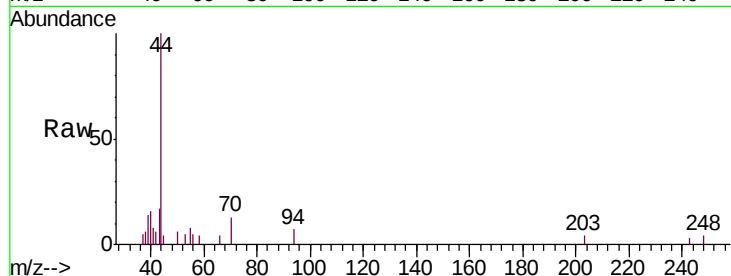
Tgt Ion: 53 Resp: 310

Ion Ratio Lower Upper

53 100

52 0.0 74.6 111.8#

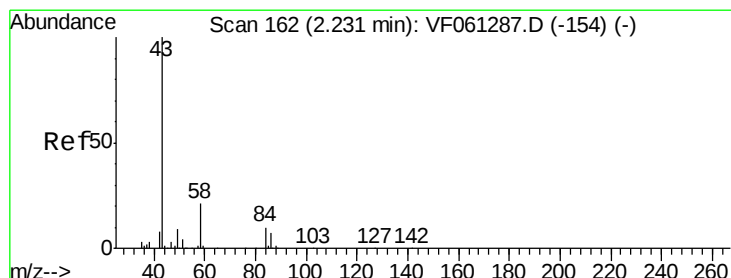
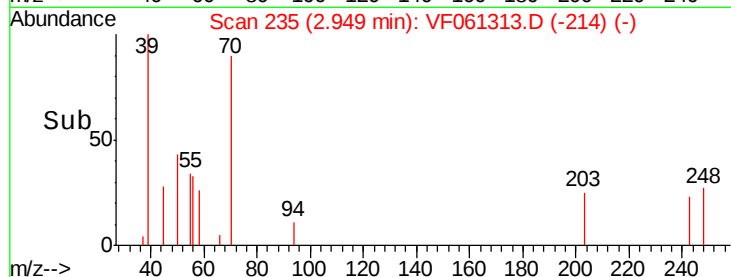
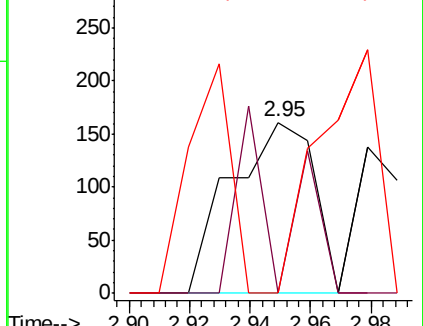
51 0.0 37.8 56.6#



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: 4.151 ug/l

RT: 2.38 min Scan# 177

Delta R.T. 0.15 min

Lab File: VF061313.D

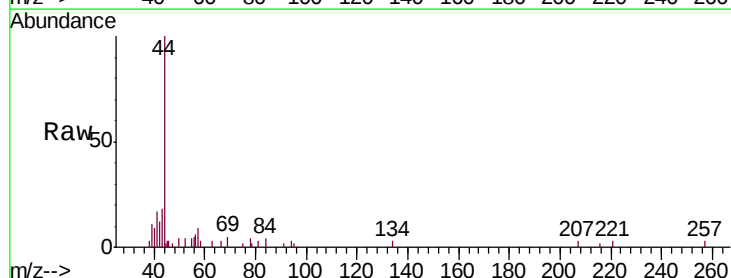
Acq: 9 Jan 2019 20:58

Tgt Ion: 43 Resp: 1933

Ion Ratio Lower Upper

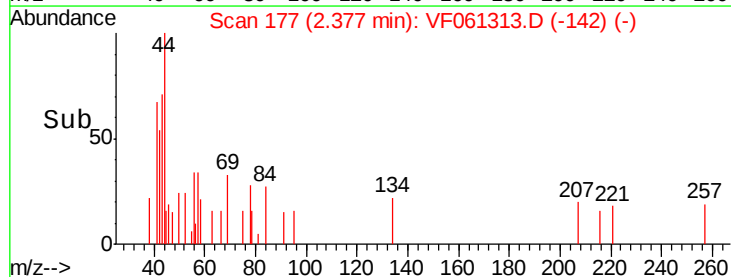
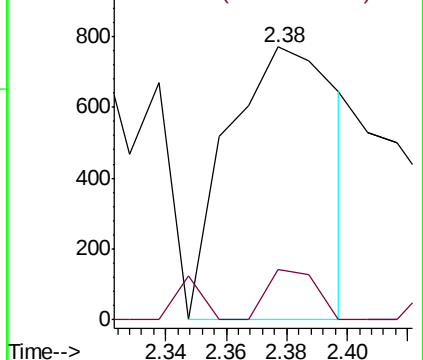
43 100

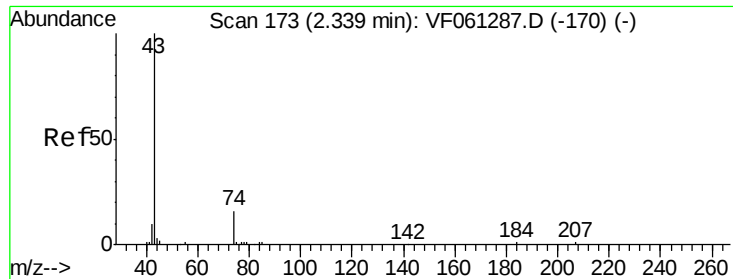
58 18.3 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

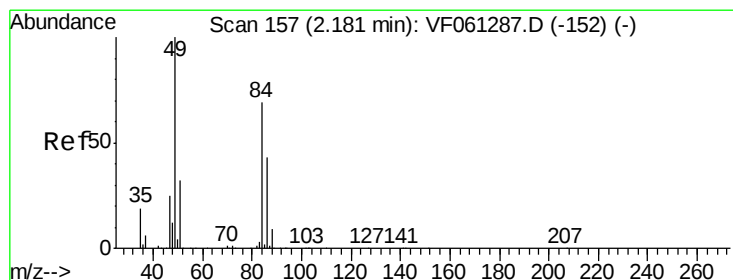
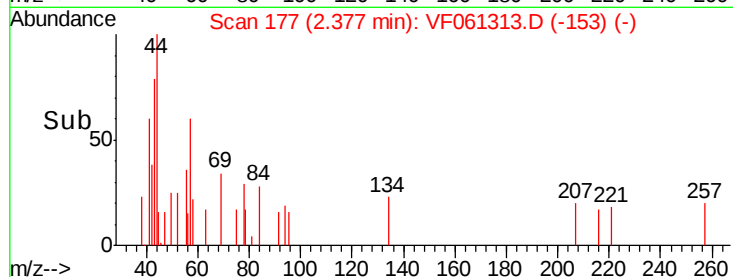
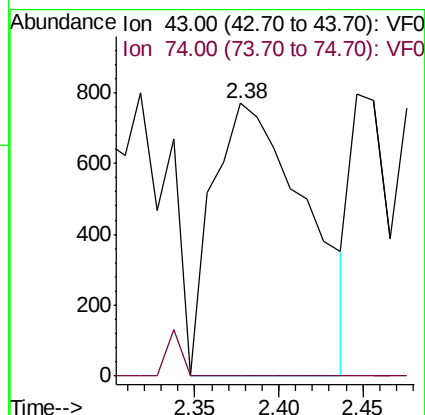
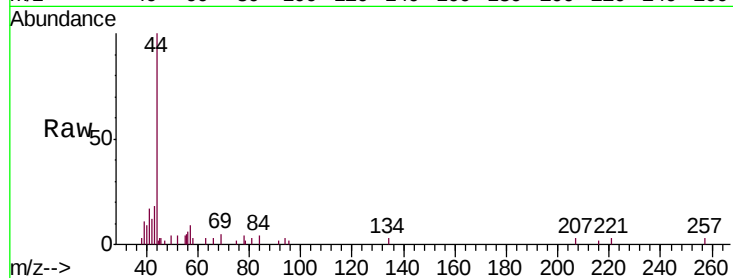




#18
Methyl Acetate
Concen: 3.246 ug/l
RT: 2.38 min Scan# 177
Delta R.T. 0.04 min
Lab File: VF061313.D
Acq: 9 Jan 2019 20:58

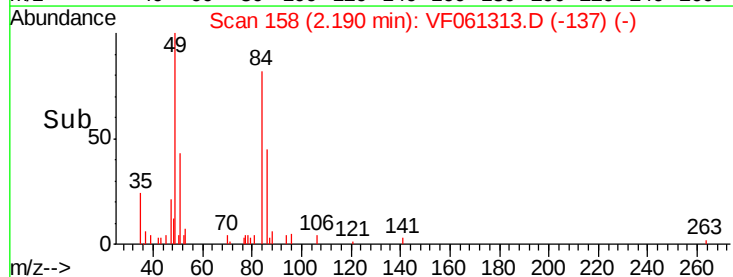
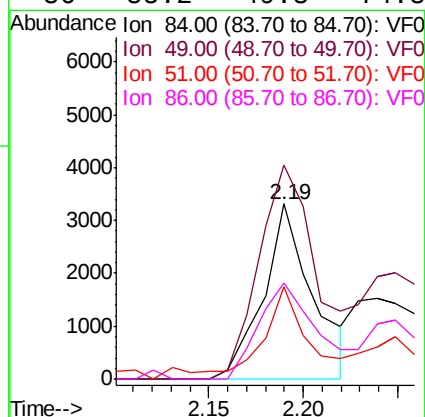
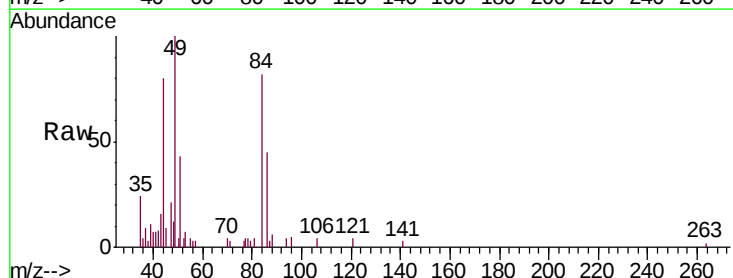
Instrument :
MSVOA_F
ClientSampleId :
MH-447-7.0-8.0

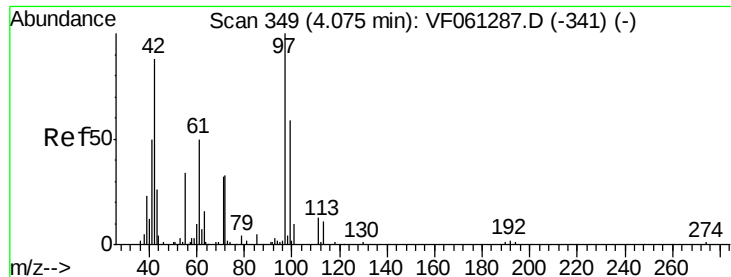
Tgt Ion: 43 Resp: 2974
Ion Ratio Lower Upper
43 100
74 0.0 11.6 17.4#



#20
Methylene Chloride
Concen: 3.052 ug/l
RT: 2.19 min Scan# 158
Delta R.T. 0.01 min
Lab File: VF061313.D
Acq: 9 Jan 2019 20:58

Tgt Ion: 84 Resp: 6012
Ion Ratio Lower Upper
84 100
49 122.0 116.6 175.0
51 52.7 37.7 56.5
86 55.2 49.8 74.8





#29

Tetrahydrofuran

Concen: 1.261 ug/l

RT: 4.11 min Scan# 353

Delta R.T. 0.04 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

Instrument :

MSVOA_F

ClientSampleId :

MH-447-7.0-8.0

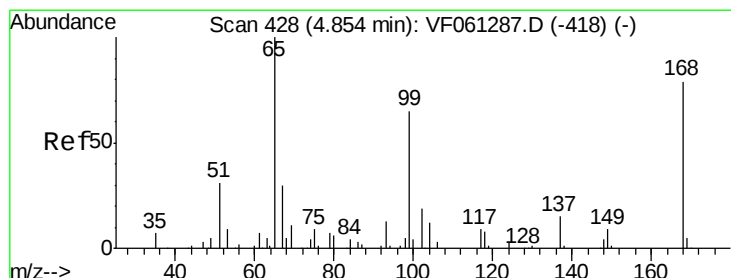
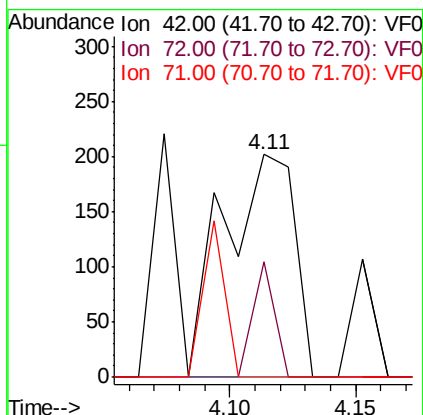
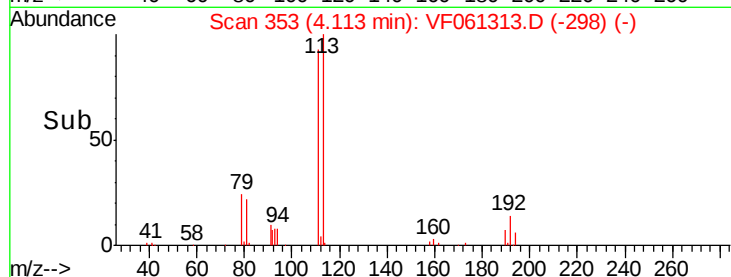
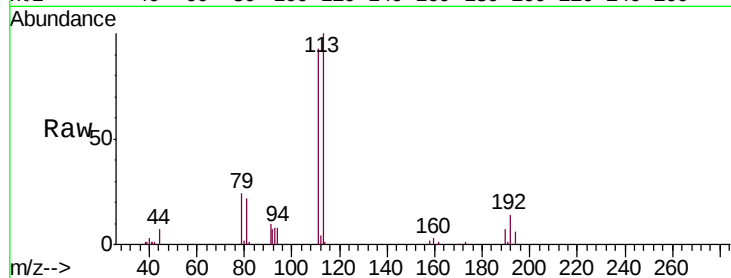
Tgt Ion: 42 Resp: 395

Ion Ratio Lower Upper

42 100

72 15.7 32.3 48.5#

71 21.3 29.5 44.3#



#33

1,2-Dichloroethane-d4

Concen: 51.367 ug/l

RT: 4.86 min Scan# 429

Delta R.T. 0.01 min

Lab File: VF061313.D

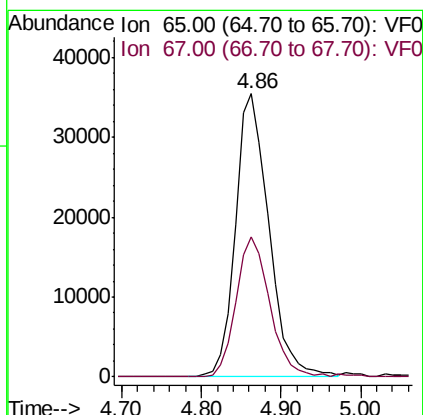
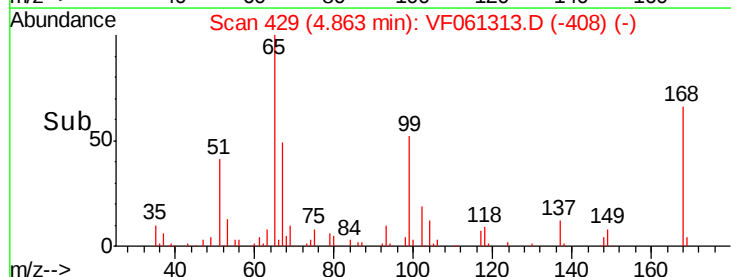
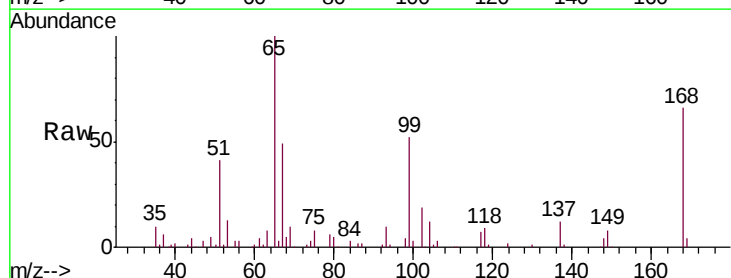
Acq: 9 Jan 2019 20:58

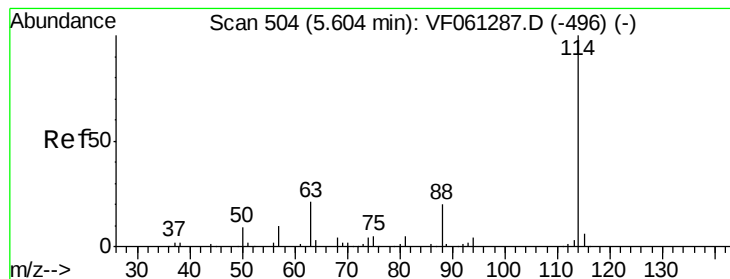
Tgt Ion: 65 Resp: 102816

Ion Ratio Lower Upper

65 100

67 49.5 0.0 98.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 505

Delta R.T. 0.01 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

Instrument :

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MH-447-7.0-8.0

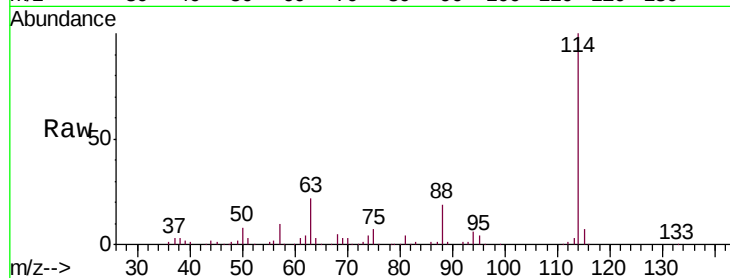
Tgt Ion:114 Resp: 312198

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.8

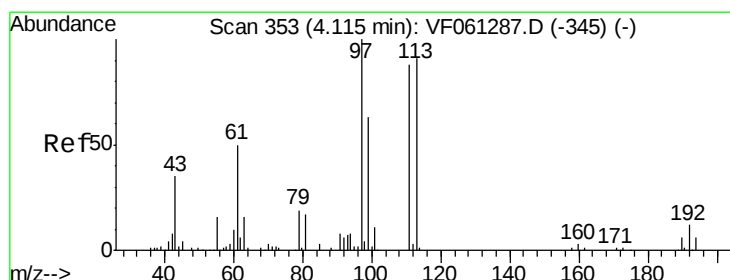
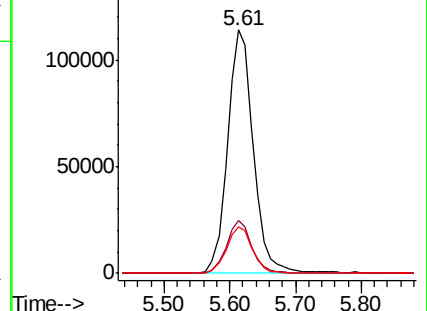
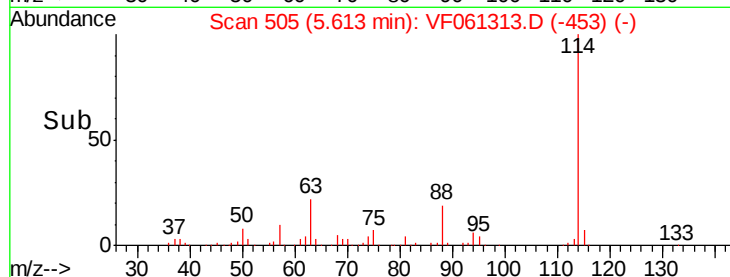
88 19.2 0.0 40.0



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: 50.647 ug/l

RT: 4.12 min Scan# 354

Delta R.T. 0.01 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

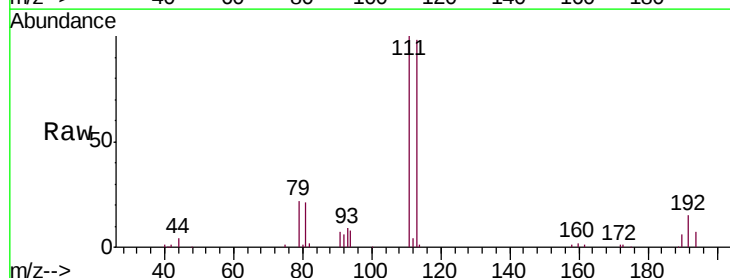
Tgt Ion:113 Resp: 120988

Ion Ratio Lower Upper

113 100

111 102.3 78.0 117.0

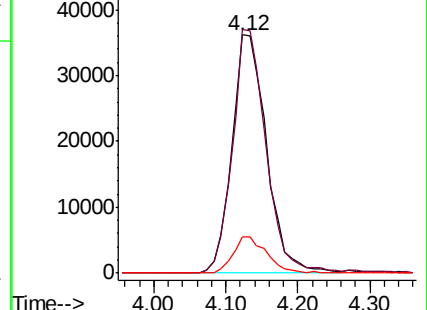
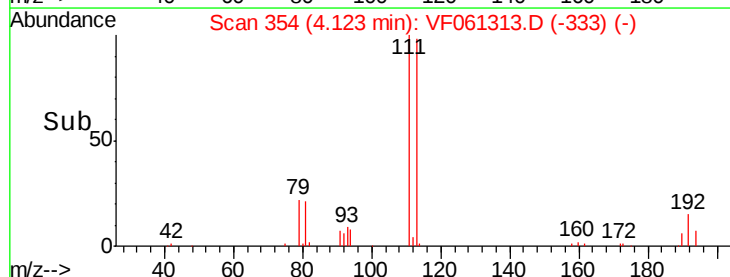
192 15.1 10.6 16.0

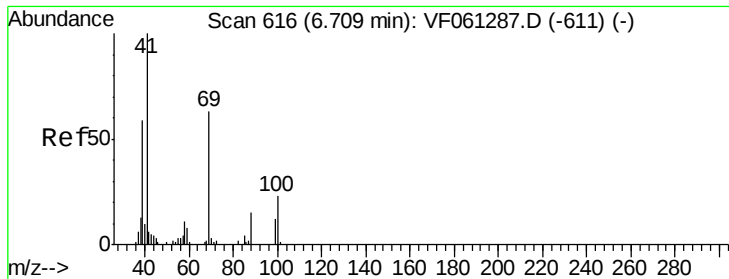


Abundance Ion 113.00 (112.70 to 113.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 192.00 (191.70 to 192.70): V





#49

1,4-Dioxane

Concen: 8.776 ug/l

RT: 6.48 min Scan# 593

Delta R.T. -0.23 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

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MH-447-7.0-8.0

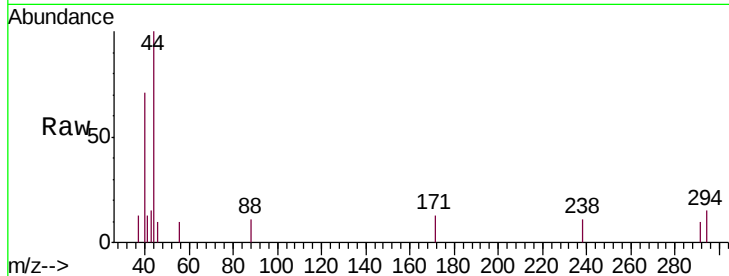
Tgt Ion: 88 Resp: 63

Ion Ratio Lower Upper

88 100

43 137.7 38.5 57.7#

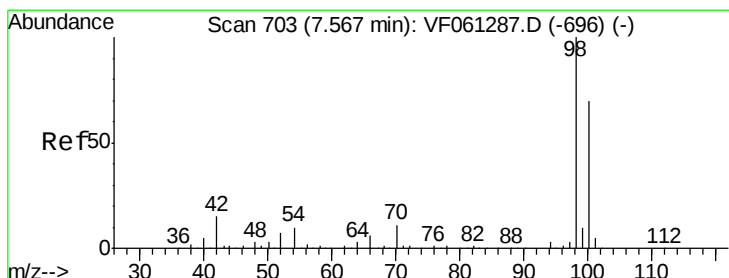
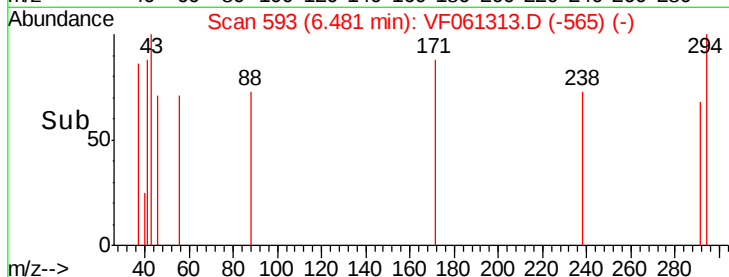
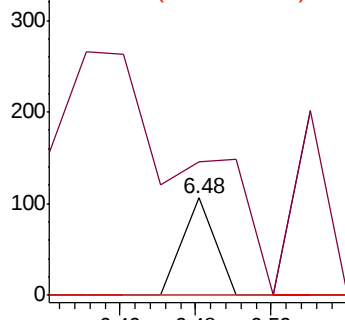
58 0.0 57.0 85.4#



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: 46.733 ug/l

RT: 7.57 min Scan# 703

Delta R.T. -0.00 min

Lab File: VF061313.D

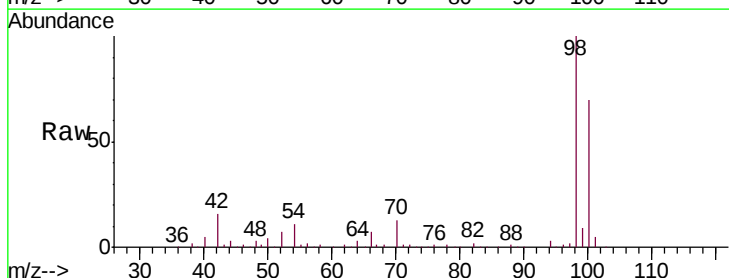
Acq: 9 Jan 2019 20:58

Tgt Ion: 98 Resp: 330361

Ion Ratio Lower Upper

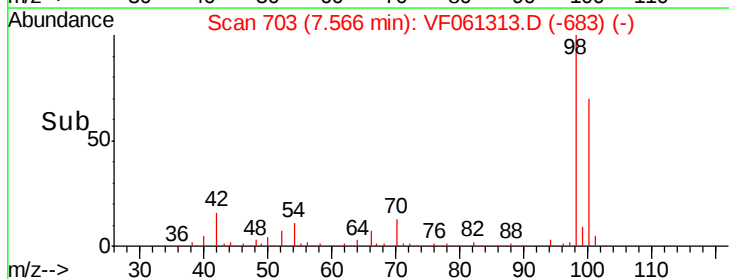
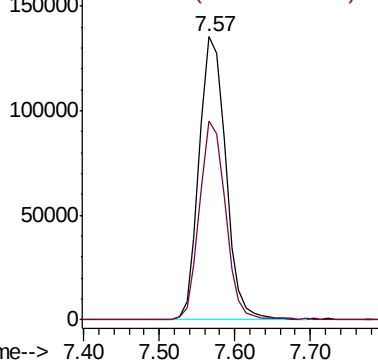
98 100

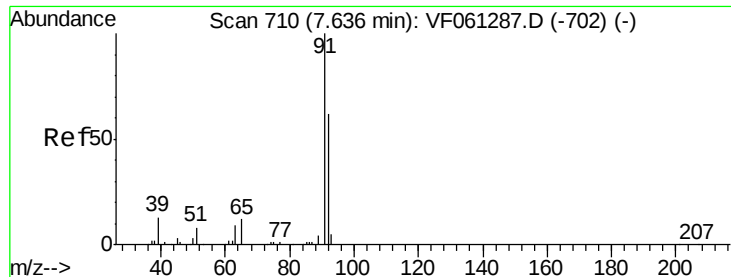
100 70.1 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0





#52

Toluene

Concen: 3.610 ug/l

RT: 7.63 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

Instrument :

MSVOA_F

ClientSampleId :

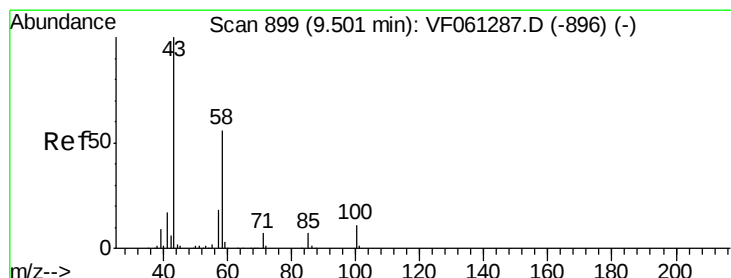
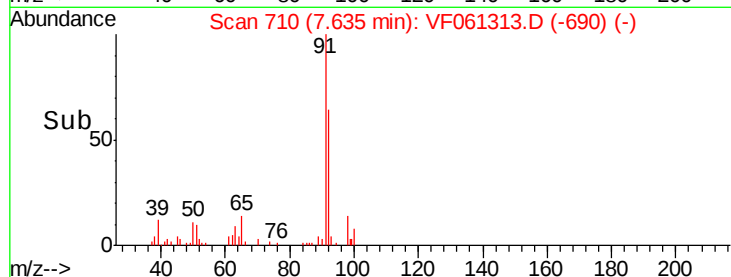
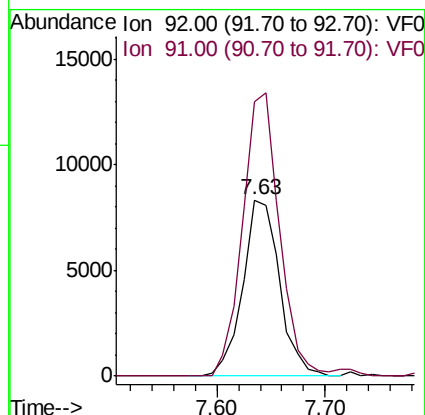
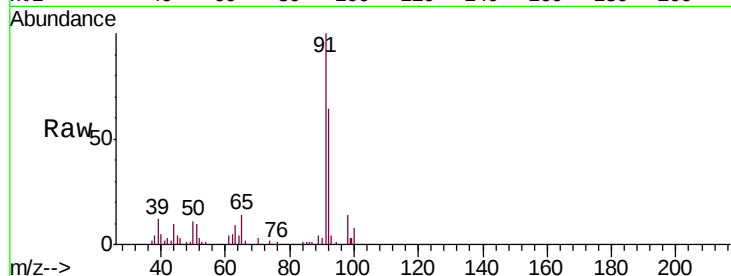
MH-447-7.0-8.0

Tgt Ion: 92 Resp: 19752

Ion Ratio Lower Upper

92 100

91 155.3 129.2 193.8



#59

2-Hexanone

Concen: 1.096 ug/l

RT: 9.52 min Scan# 901

Delta R.T. 0.02 min

Lab File: VF061313.D

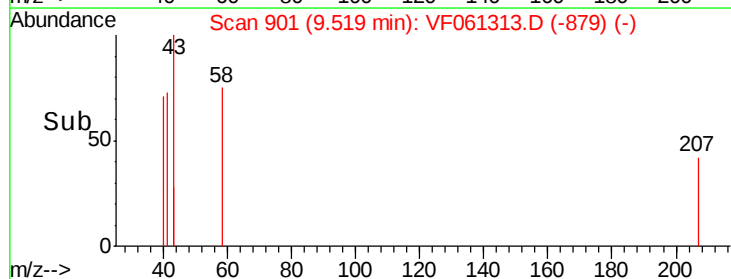
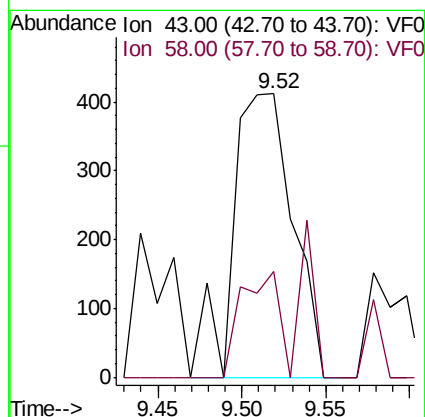
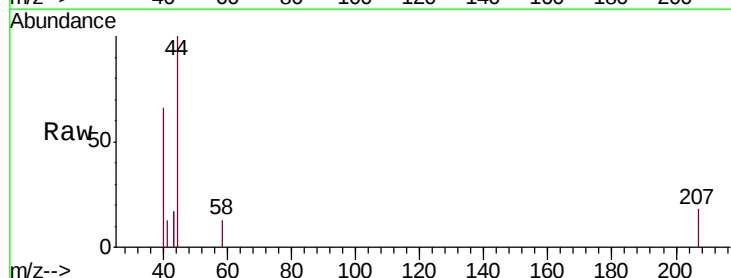
Acq: 9 Jan 2019 20:58

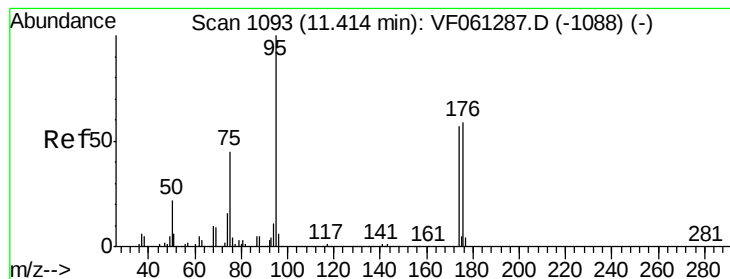
Tgt Ion: 43 Resp: 1027

Ion Ratio Lower Upper

43 100

58 37.4 25.6 76.8





#62

4-Bromofluorobenzene

Concen: 49.139 ug/l

RT: 11.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

Instrument :

MSVOA_F

ClientSampleId :

MH-447-7.0-8.0

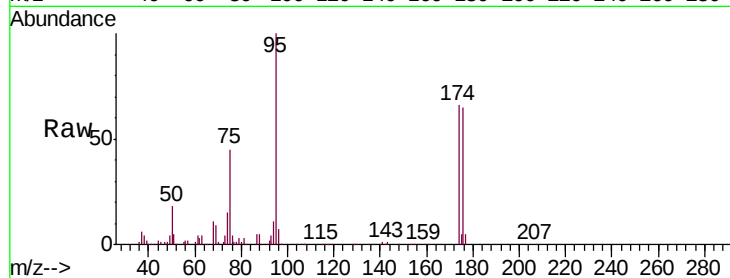
Tgt Ion: 95 Resp: 151684

Ion Ratio Lower Upper

95 100

174 66.3 0.0 114.2

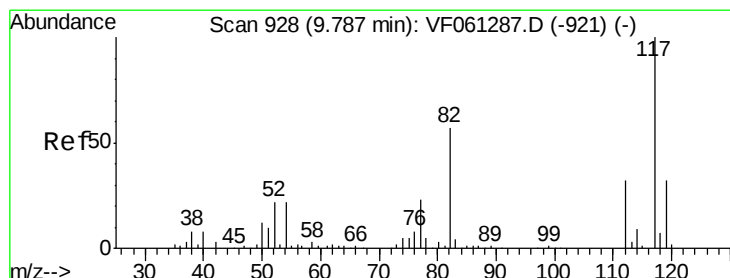
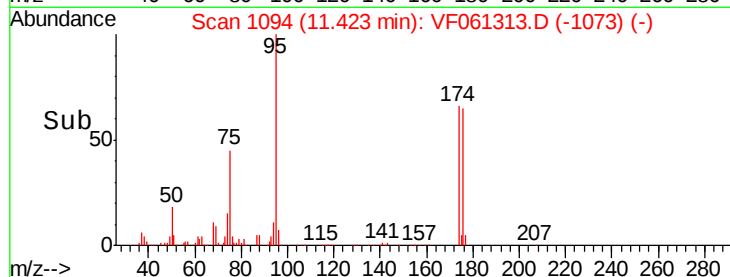
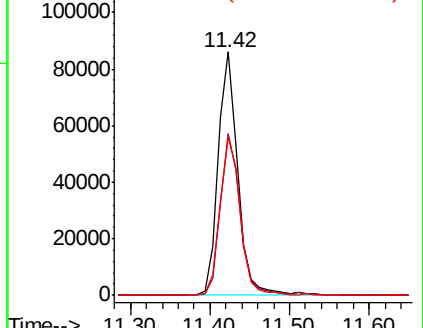
176 64.7 0.0 117.8



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: 9.80 min Scan# 929

Delta R.T. 0.01 min

Lab File: VF061313.D

Acq: 9 Jan 2019 20:58

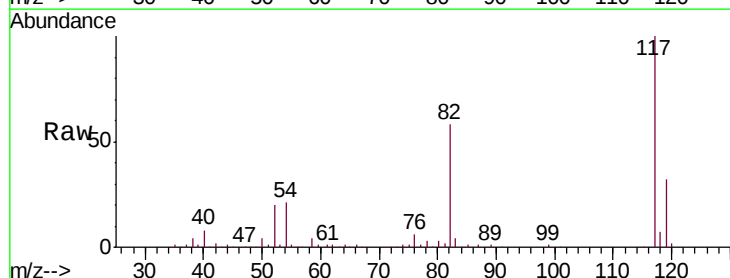
Tgt Ion: 117 Resp: 286965

Ion Ratio Lower Upper

117 100

82 57.6 45.3 67.9

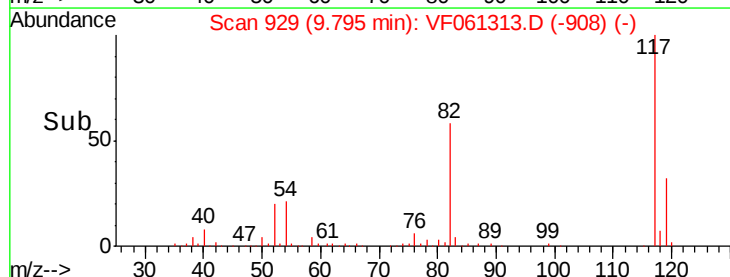
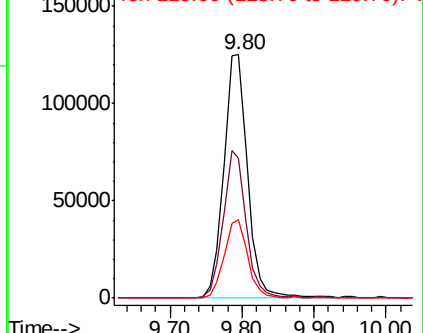
119 32.4 25.4 38.0

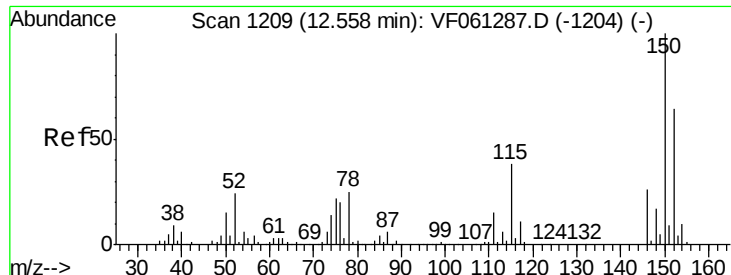


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 119.00 (118.70 to 119.70): V

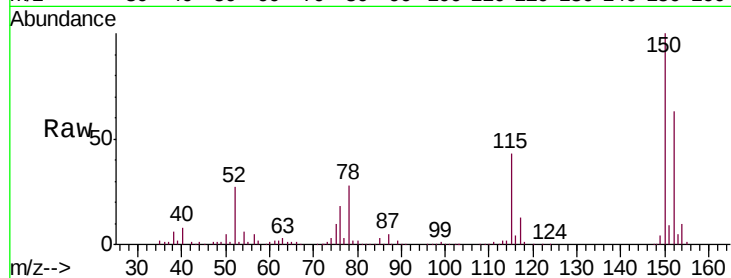




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.56 min Scan# 1209
 Delta R.T. -0.00 min
 Lab File: VF061313.D
 Acq: 9 Jan 2019 20:58

Instrument :
 MSVOA_F
 ClientSampleId :
 MH-447-7.0-8.0

Tgt Ion	Ratio	Lower	Upper
152	100		
115	68.0	29.6	88.9
150	159.3	0.0	315.4



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

