

Data Path : Z:\HPCHEM1\MSVOA_F\DATA\VF011019\
 Data File : VF061348.D
 Acq On : 10 Jan 2019 17:13
 Operator : VA/AP
 Sample : K1006-19RE
 Misc : 8.03g/5mL/MSVOA-F/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 11 00:31:52 2019
 Quant Method : Z:\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	4.88	168	188362	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.60	114	346923	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.79	117	322768	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.56	152	183887	50.00	ug/l	0.00

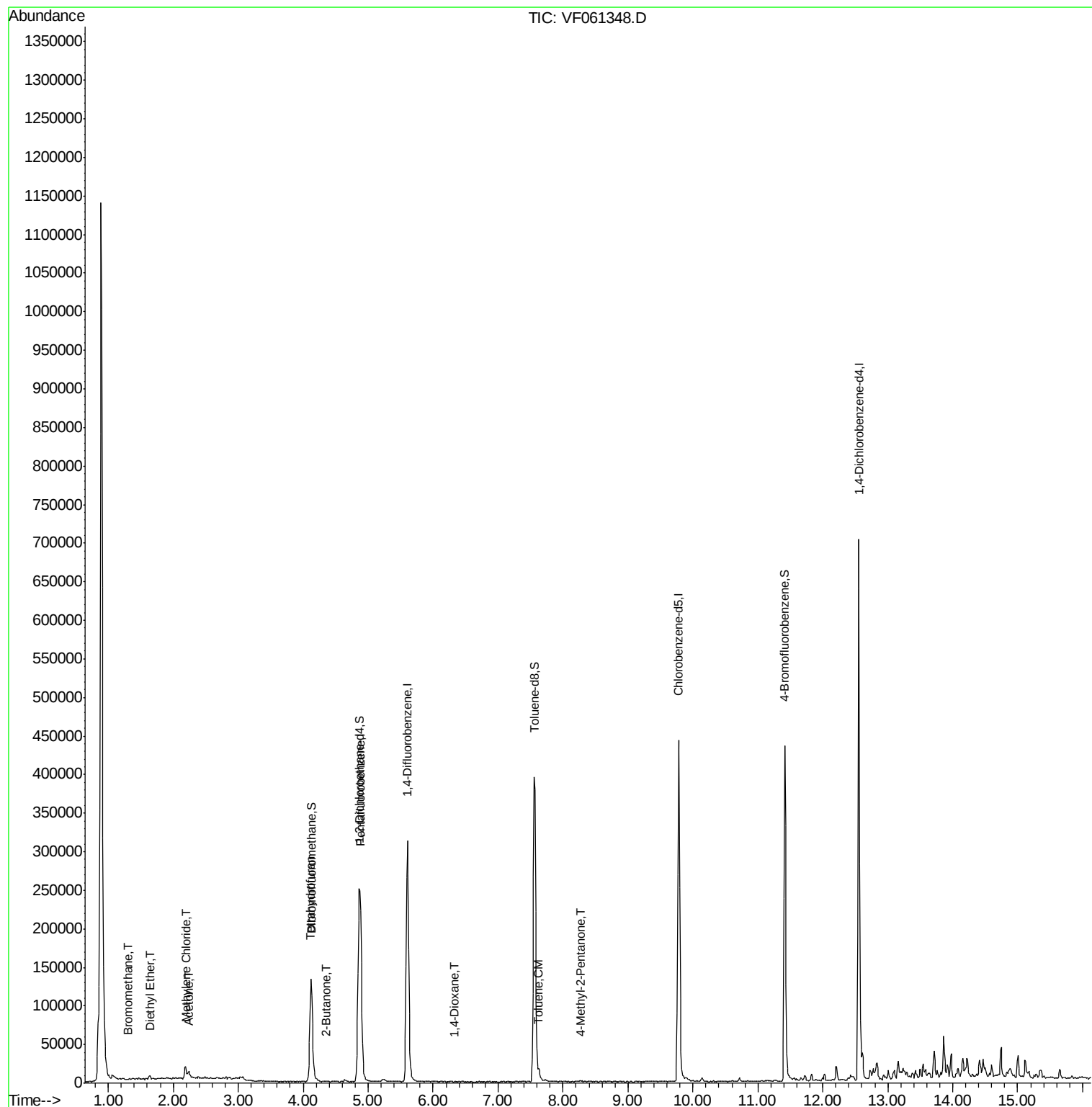
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	4.85	65	112036	53.44	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	106.88%	
35) Dibromofluoromethane	4.12	113	130639	49.21	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.42%	
50) Toluene-d8	7.56	98	335357	42.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	85.38%	
62) 4-Bromofluorobenzene	11.41	95	167011	48.69	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.38%	

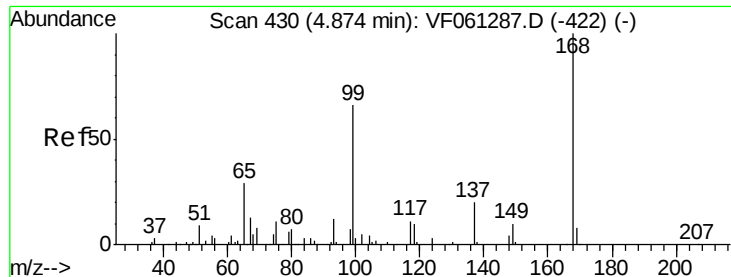
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.30	94	370	3.059	ug/l #	6
8) Diethyl Ether	1.63	74	1468	2.133	ug/l	69
13) Acrolein	2.00	56	96	Below Cal	#	61
16) Acetone	2.24	43	8838	18.121	ug/l	93
20) Methylene Chloride	2.18	84	8182	3.965	ug/l #	94
25) 2-Butanone	4.35	43	1120	1.427	ug/l #	56
29) Tetrahydrofuran	4.10	42	744	2.267	ug/l #	53
49) 1,4-Dioxane	6.34	88	75	9.402	ug/l #	1
51) 4-Methyl-2-Pentanone	8.27	43	1806	1.228	ug/l #	81
52) Toluene	7.64	92	6422	1.056	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.88 min Scan# 431

Delta R.T. 0.01 min

Lab File: VF061348.D

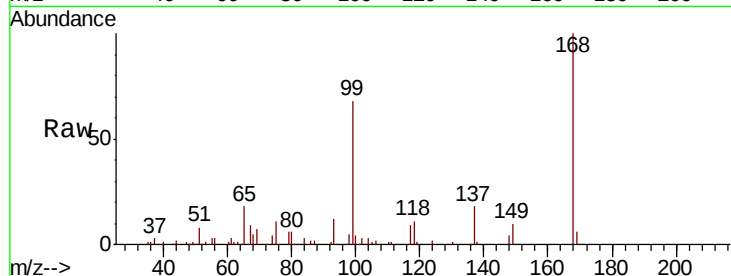
Acq: 10 Jan 2019 17:13

Tgt Ion: 168 Resp: 188362

Ion Ratio Lower Upper

168 100

99 67.7 52.7 79.1



Abundance Ion 168.00 (167.70 to 168.70): VF0

Ion 99.00 (98.70 to 99.70): VF0

4.88

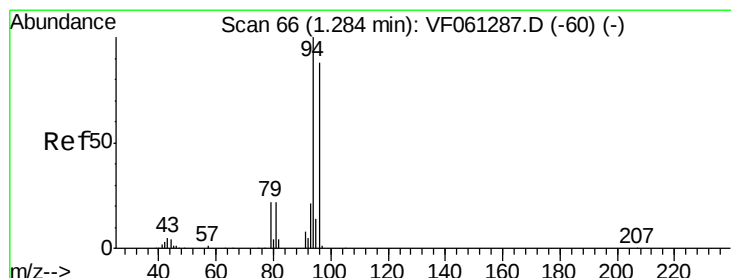
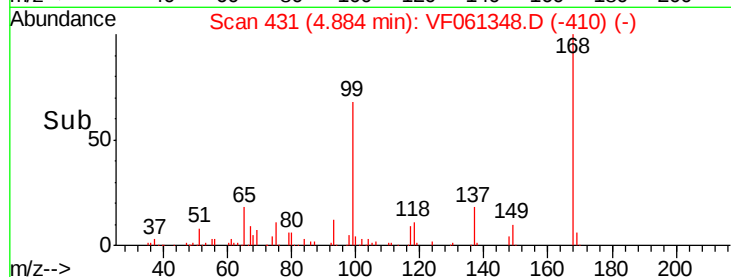
60000

40000

20000

0

Time--> 4.70 4.80 4.90 5.00 5.10



#5

Bromomethane

Concen: 3.059 ug/l

RT: 1.30 min Scan# 68

Delta R.T. 0.02 min

Lab File: VF061348.D

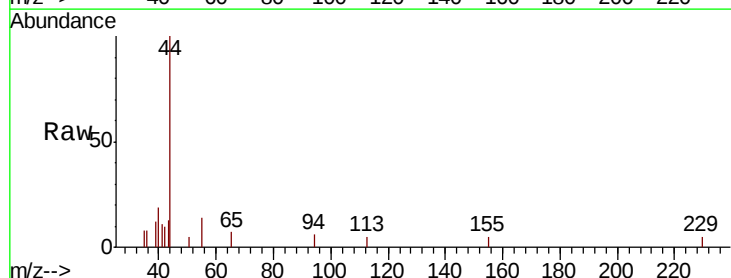
Acq: 10 Jan 2019 17:13

Tgt Ion: 94 Resp: 370

Ion Ratio Lower Upper

94 100

96 0.0 70.2 105.4#



Abundance Ion 94.00 (93.70 to 94.70): VF0

Ion 96.00 (95.70 to 96.70): VF0

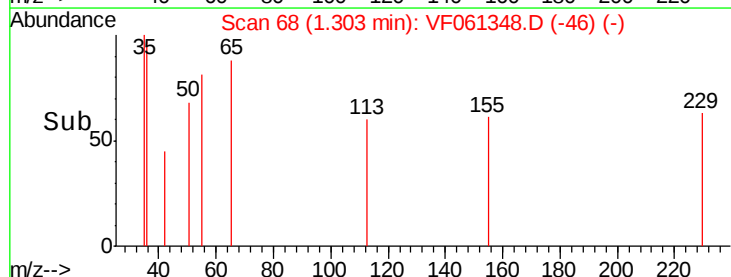
300

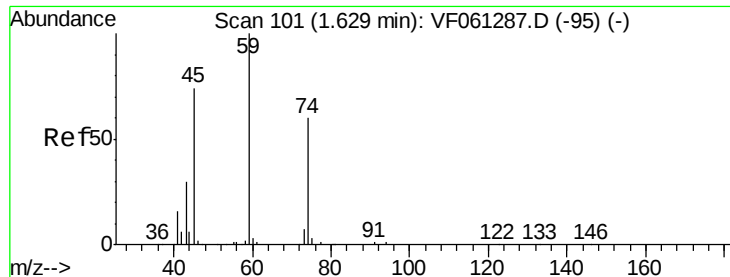
200

100

0

Time--> 1.25 1.30 1.35





#8

Diethyl Ether

Concen: 2.133 ug/l

RT: 1.63 min Scan# 101

Delta R.T. -0.00 min

Lab File: VF061348.D

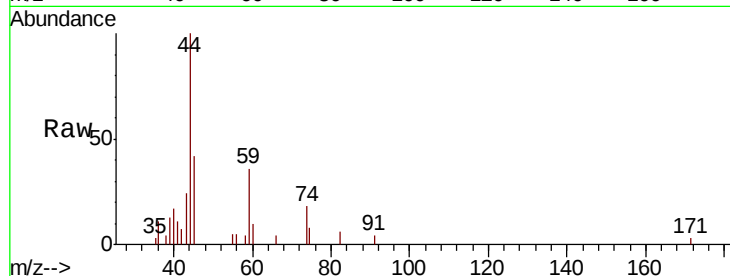
Acq: 10 Jan 2019 17:13

Tgt Ion: 74 Resp: 1468

Ion Ratio Lower Upper

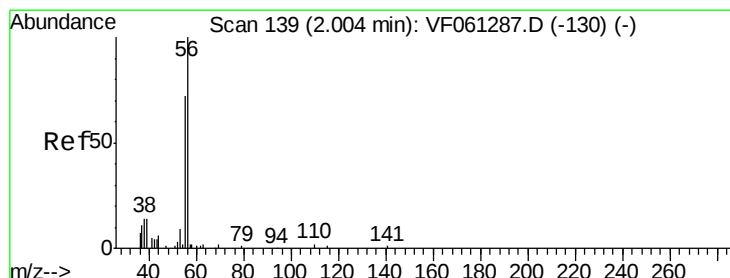
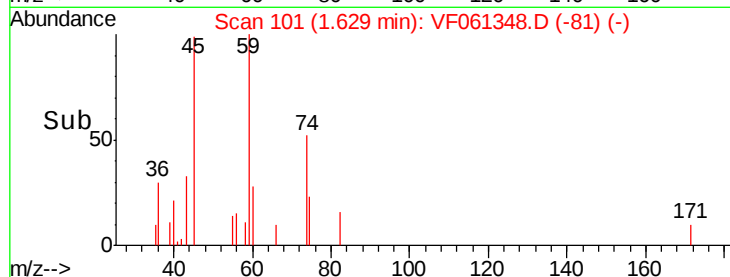
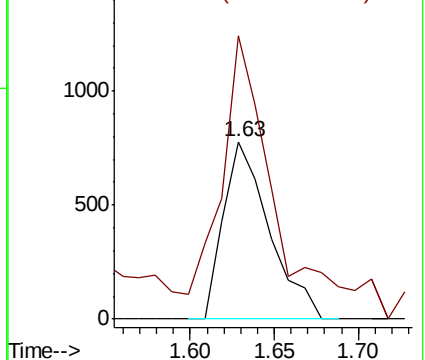
74 100

45 159.7 62.1 186.3



Abundance Ion 74.00 (73.70 to 74.70): VF0

Ion 45.00 (44.70 to 45.70): VF0



#13

Acrolein

Concen: Below Cal

RT: 2.00 min Scan# 139

Delta R.T. 0.00 min

Lab File: VF061348.D

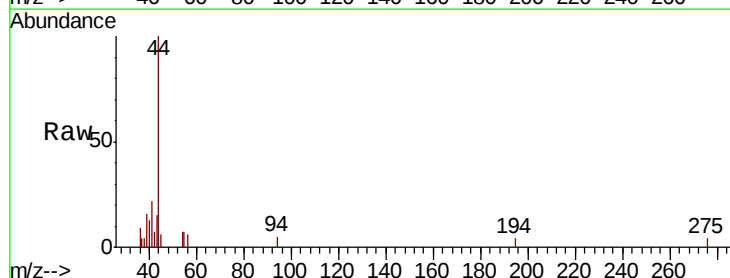
Acq: 10 Jan 2019 17:13

Tgt Ion: 56 Resp: 96

Ion Ratio Lower Upper

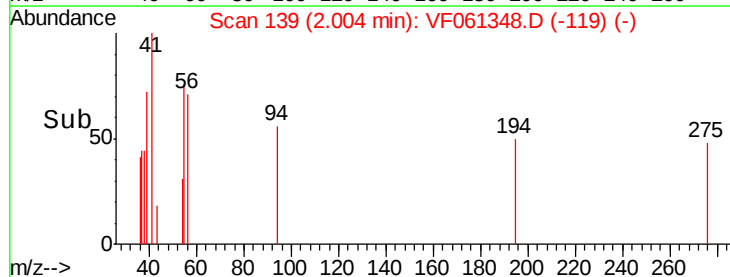
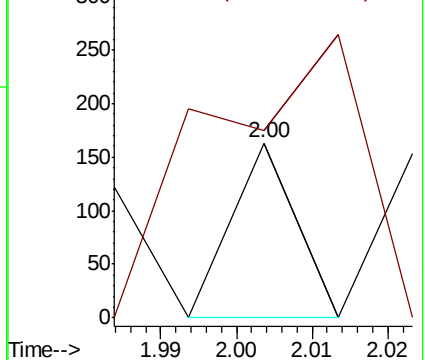
56 100

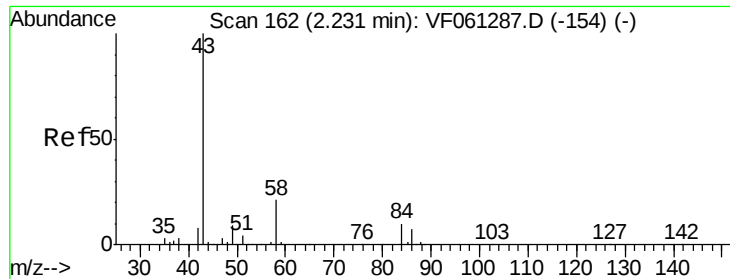
55 107.4 59.4 89.0#



Abundance Ion 56.00 (55.70 to 56.70): VF0

Ion 55.00 (54.70 to 55.70): VF0





#16

Acetone

Concen: 18.121 ug/l

RT: 2.24 min Scan# 163

Delta R.T. 0.01 min

Lab File: VF061348.D

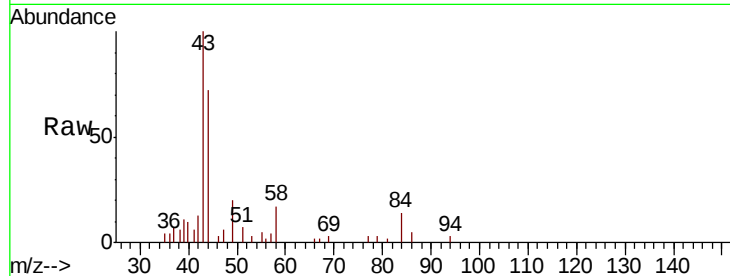
Acq: 10 Jan 2019 17:13

Tgt Ion: 43 Resp: 8838

Ion Ratio Lower Upper

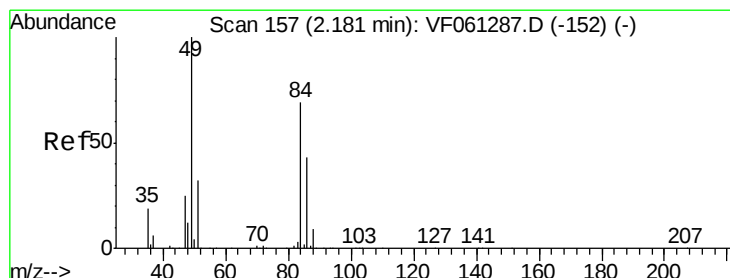
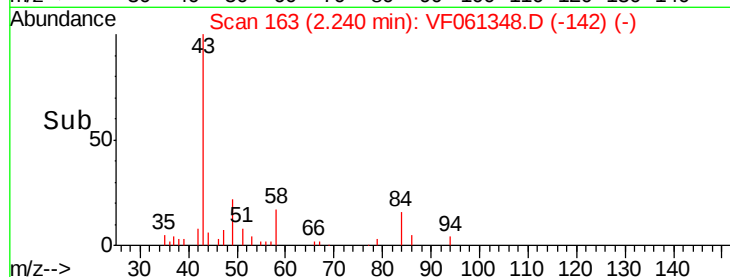
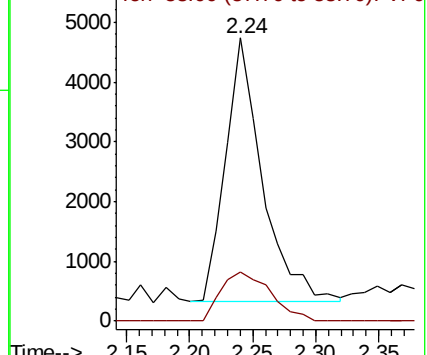
43 100

58 17.4 16.6 25.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#20

Methylene Chloride

Concen: 3.965 ug/l

RT: 2.18 min Scan# 157

Delta R.T. -0.00 min

Lab File: VF061348.D

Acq: 10 Jan 2019 17:13

Tgt Ion: 84 Resp: 8182

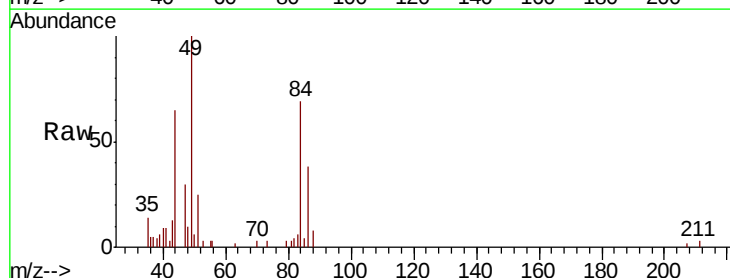
Ion Ratio Lower Upper

84 100

49 145.3 116.6 175.0

51 35.9 37.7 56.5#

86 55.1 49.8 74.8

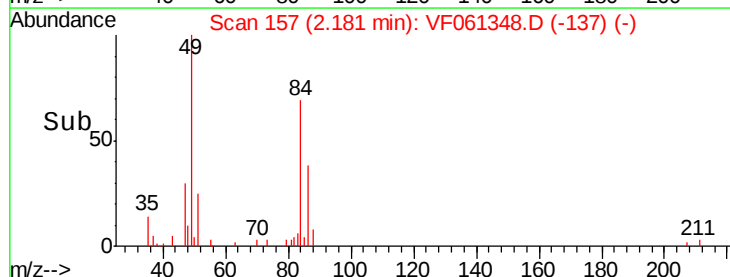
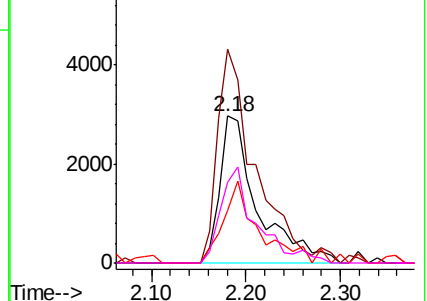


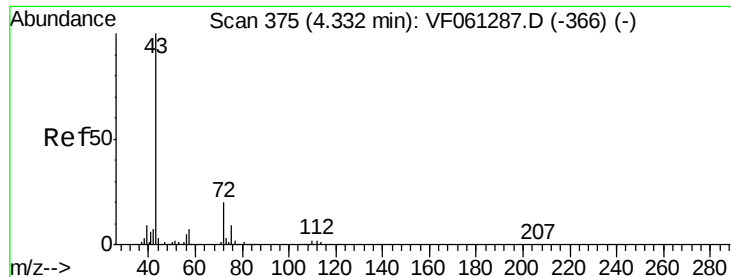
Abundance Ion 84.00 (83.70 to 84.70): VF0

Ion 49.00 (48.70 to 49.70): VF0

Ion 51.00 (50.70 to 51.70): VF0

Ion 86.00 (85.70 to 86.70): VF0





#25

2-Butanone

Concen: 1.427 ug/l

RT: 4.35 min Scan# 377

Delta R.T. 0.02 min

Lab File: VF061348.D

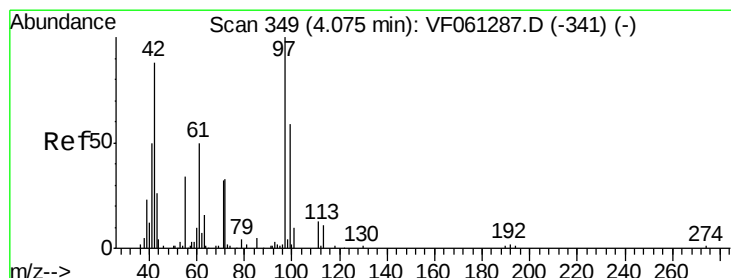
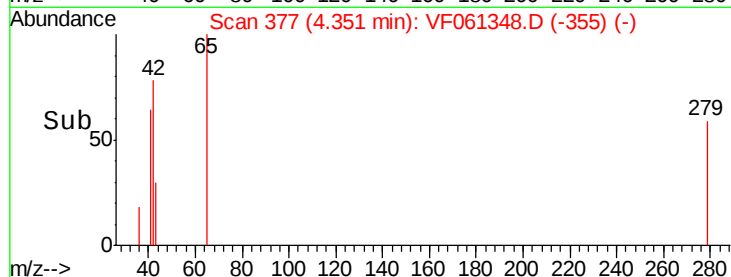
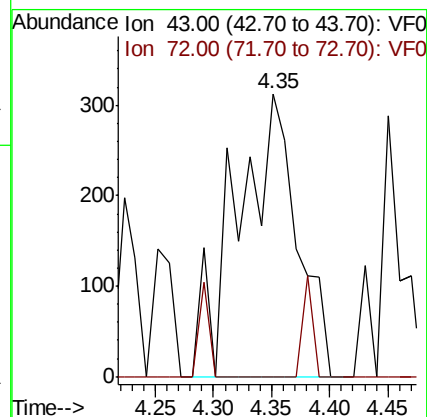
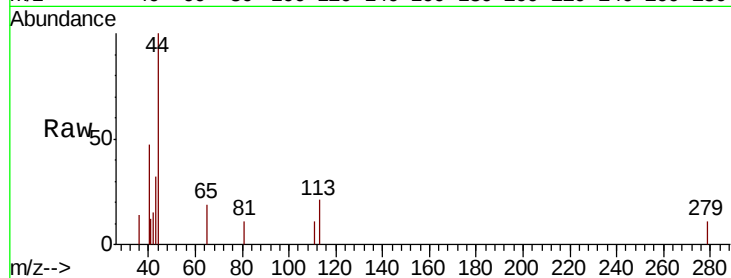
Acq: 10 Jan 2019 17:13

Tgt Ion: 43 Resp: 1120

Ion Ratio Lower Upper

43 100

72 0.0 16.5 24.7#



#29

Tetrahydrofuran

Concen: 2.267 ug/l

RT: 4.10 min Scan# 352

Delta R.T. 0.03 min

Lab File: VF061348.D

Acq: 10 Jan 2019 17:13

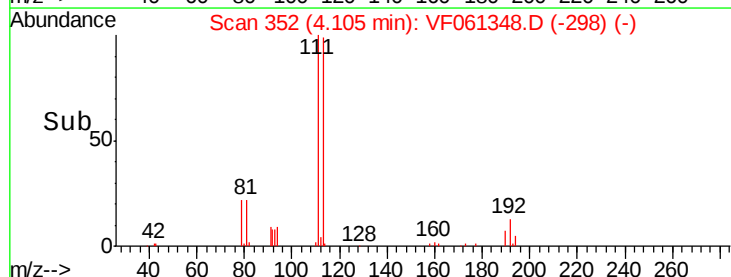
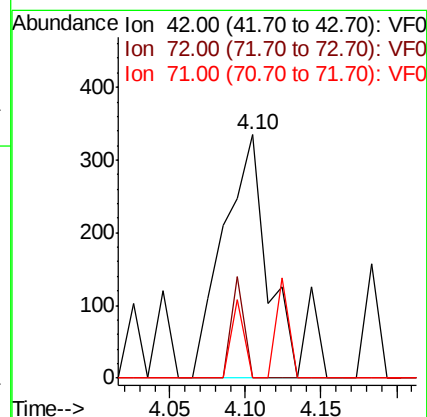
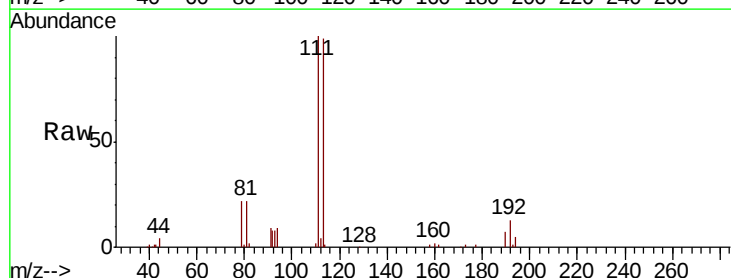
Tgt Ion: 42 Resp: 744

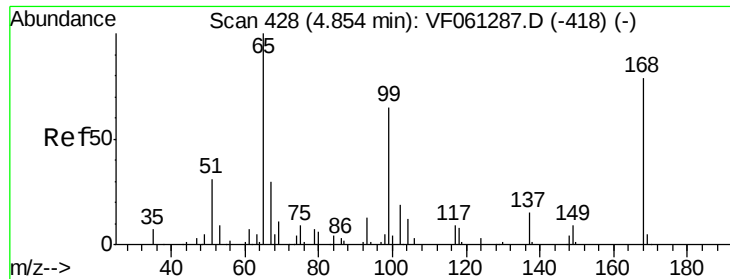
Ion Ratio Lower Upper

42 100

72 11.2 32.3 48.5#

71 8.6 29.5 44.3#





#33

1,2-Dichloroethane-d4

Concen: 53.438 ug/l

RT: 4.85 min Scan# 428

Delta R.T. -0.00 min

Lab File: VF061348.D

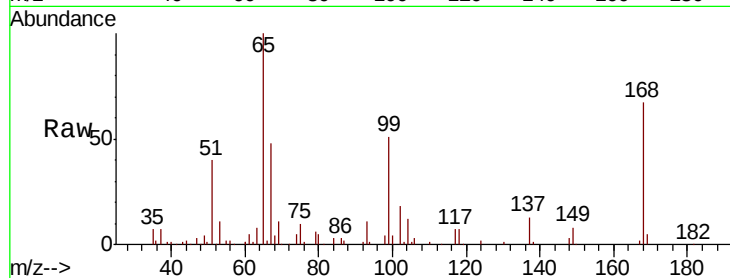
Acq: 10 Jan 2019 17:13

Tgt Ion: 65 Resp: 112036

Ion Ratio Lower Upper

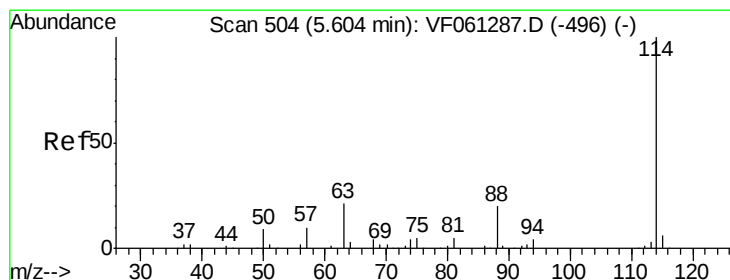
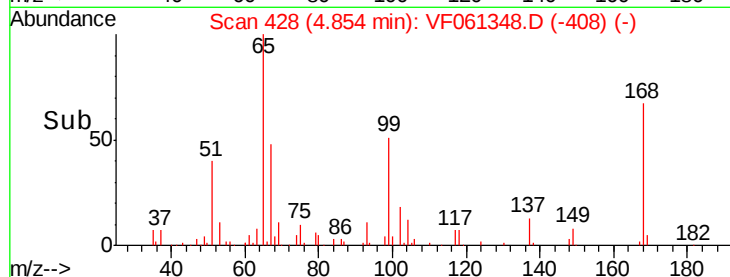
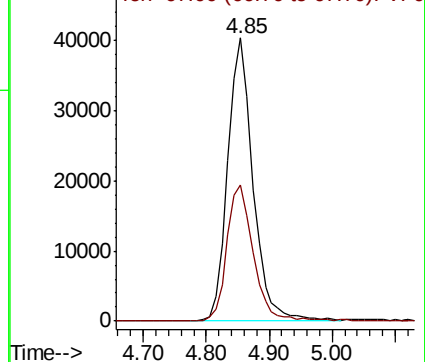
65 100

67 48.3 0.0 98.2



Abundance Ion 65.00 (64.70 to 65.70): VF0

Ion 67.00 (66.70 to 67.70): VF0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.60 min Scan# 504

Delta R.T. -0.00 min

Lab File: VF061348.D

Acq: 10 Jan 2019 17:13

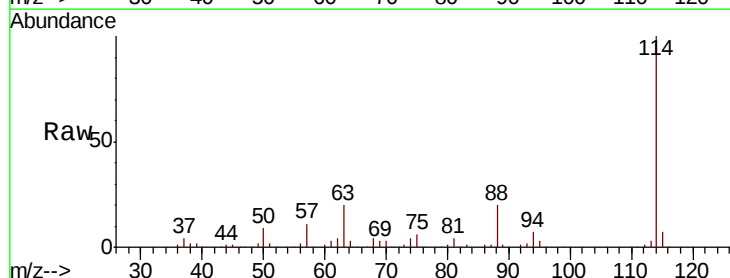
Tgt Ion: 114 Resp: 346923

Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.8

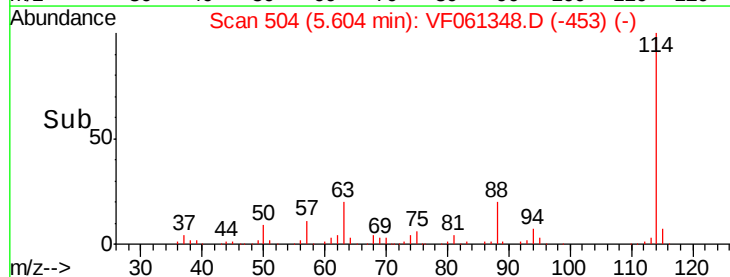
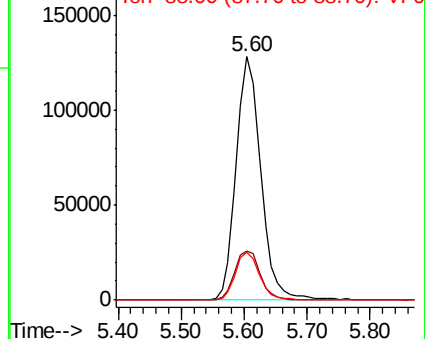
88 19.8 0.0 40.0

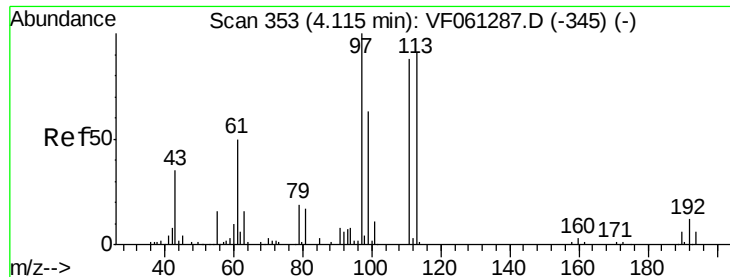


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VF0

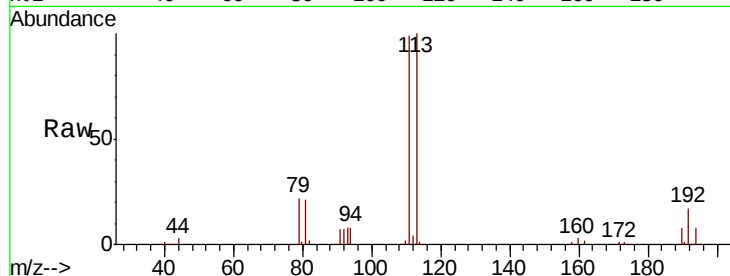
Ion 88.00 (87.70 to 88.70): VF0



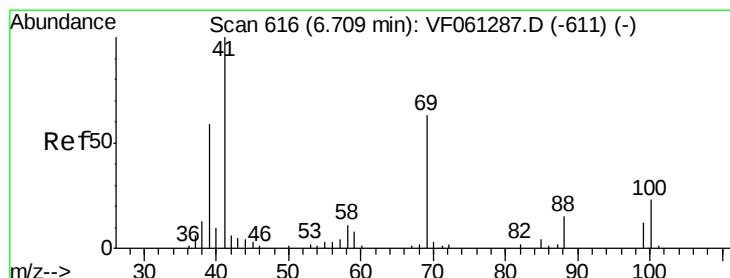
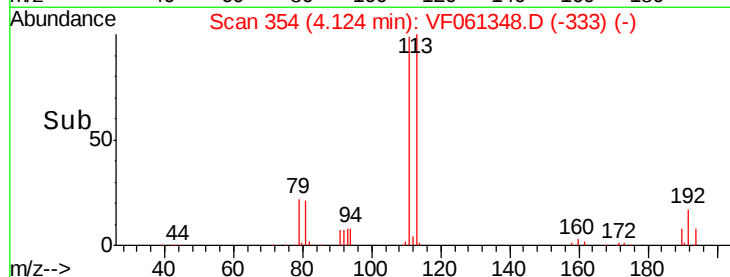
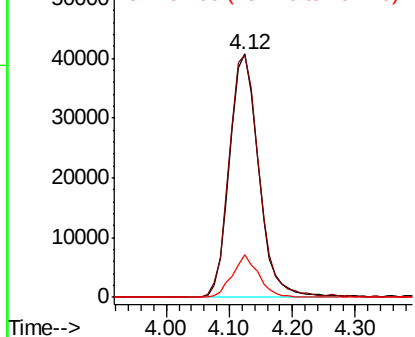


#35
 Dibromofluoromethane
 Concen: 49.214 ug/l
 RT: 4.12 min Scan# 354
 Delta R.T. 0.01 min
 Lab File: VF061348.D
 Acq: 10 Jan 2019 17:13

Tgt Ion: 113 Resp: 130639
 Ion Ratio Lower Upper
 113 100
 111 99.4 78.0 117.0
 192 17.5 10.6 16.0#

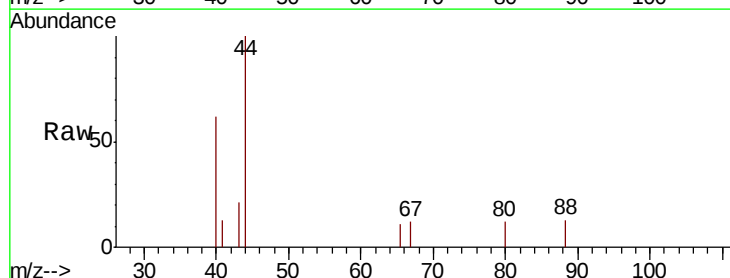


Abundance Ion 113.00 (112.70 to 113.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 192.00 (191.70 to 192.70): V

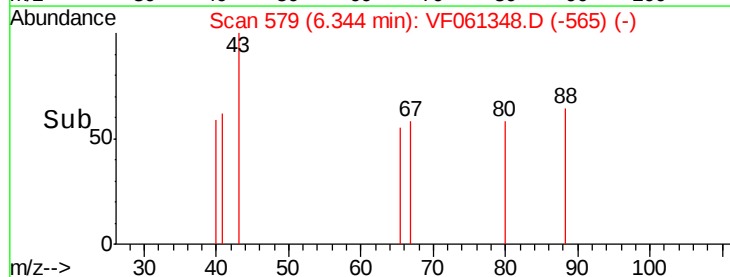
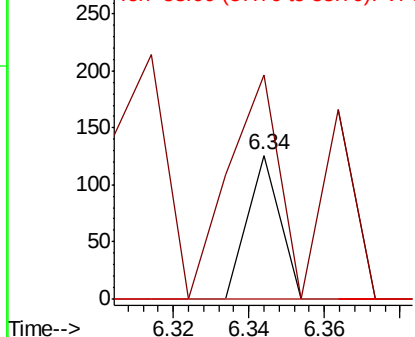


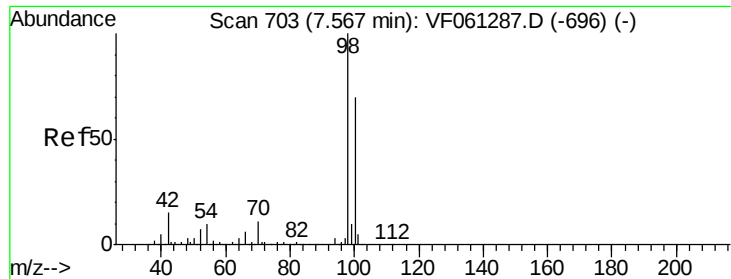
#49
 1,4-Dioxane
 Concen: 9.402 ug/l
 RT: 6.34 min Scan# 579
 Delta R.T. -0.37 min
 Lab File: VF061348.D
 Acq: 10 Jan 2019 17:13

Tgt Ion: 88 Resp: 75
 Ion Ratio Lower Upper
 88 100
 43 155.6 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: 42.691 ug/l

RT: 7.56 min Scan# 702

Delta R.T. -0.01 min

Lab File: VF061348.D

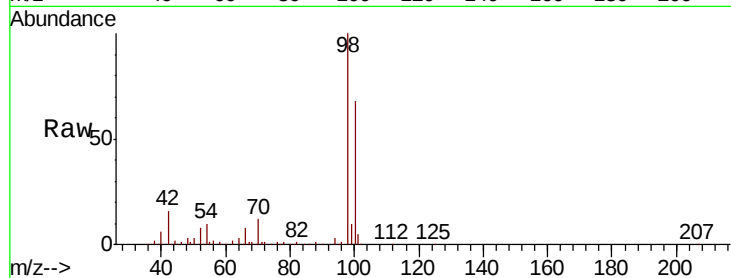
Acq: 10 Jan 2019 17:13

Tgt Ion: 98 Resp: 335357

Ion Ratio Lower Upper

98 100

100 67.8 55.6 83.4



Abundance Ion 98.00 (97.70 to 98.70): VF0

Ion 100.00 (99.70 to 100.70): VF0

7.56

150000

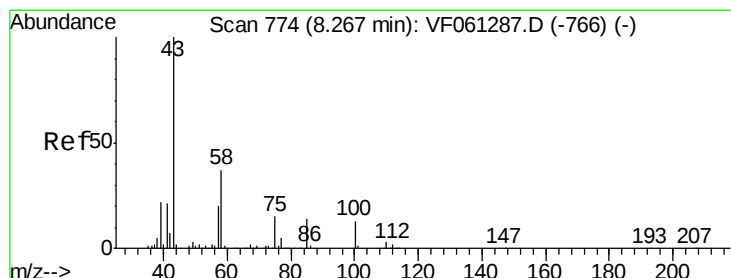
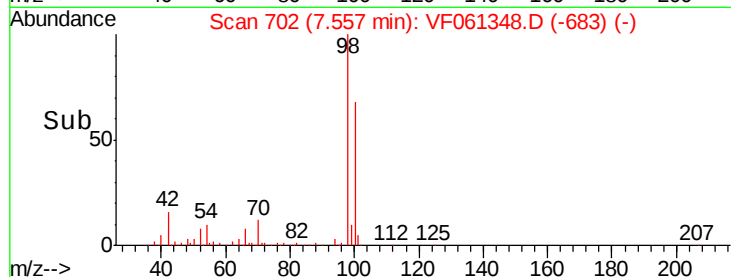
100000

50000

0

Time-->

7.40 7.50 7.60 7.70



#51

4-Methyl-2-Pentanone

Concen: 1.228 ug/l

RT: 8.27 min Scan# 774

Delta R.T. -0.00 min

Lab File: VF061348.D

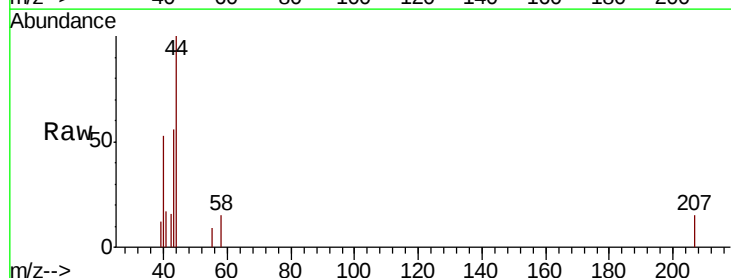
Acq: 10 Jan 2019 17:13

Tgt Ion: 43 Resp: 1806

Ion Ratio Lower Upper

43 100

58 25.8 29.6 44.4#



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0

8.27

600

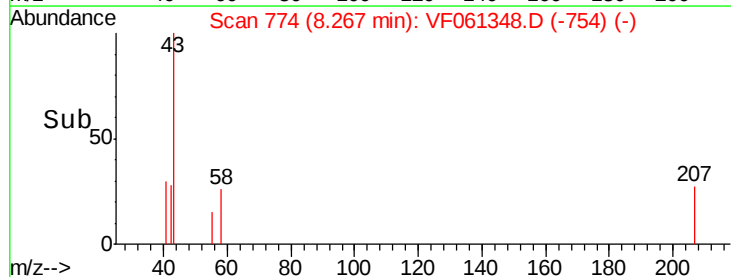
400

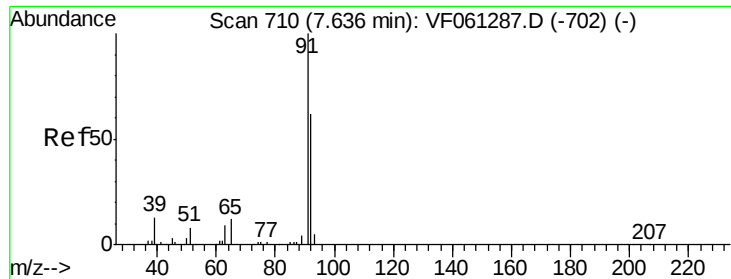
200

0

Time-->

8.20 8.30 8.40





#52

Toluene

Concen: 1.056 ug/l

RT: 7.64 min Scan# 710

Delta R.T. -0.00 min

Lab File: VF061348.D

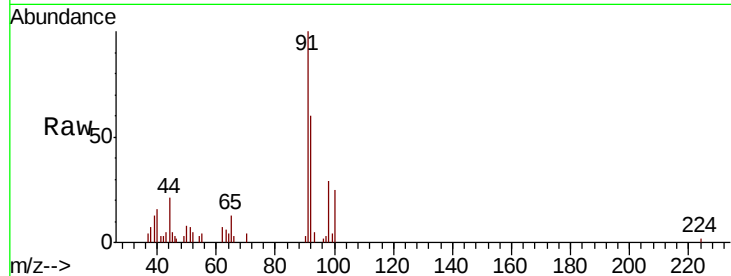
Acq: 10 Jan 2019 17:13

Tgt Ion: 92 Resp: 6422

Ion Ratio Lower Upper

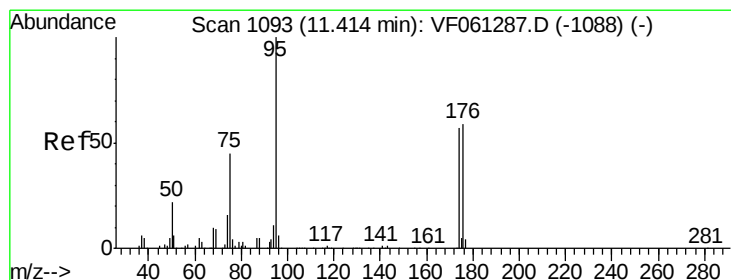
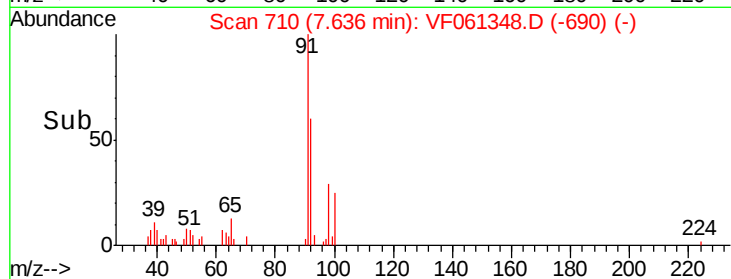
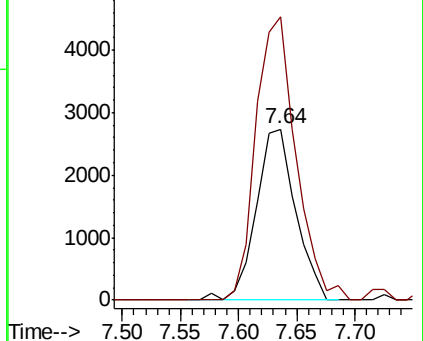
92 100

91 165.5 129.2 193.8



Abundance Ion 92.00 (91.70 to 92.70): VF0

Ion 91.00 (90.70 to 91.70): VF0



#62

4-Bromofluorobenzene

Concen: 48.689 ug/l

RT: 11.41 min Scan# 1093

Delta R.T. -0.00 min

Lab File: VF061348.D

Acq: 10 Jan 2019 17:13

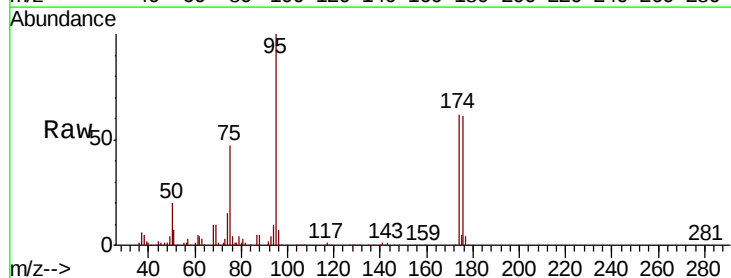
Tgt Ion: 95 Resp: 167011

Ion Ratio Lower Upper

95 100

174 61.9 0.0 114.2

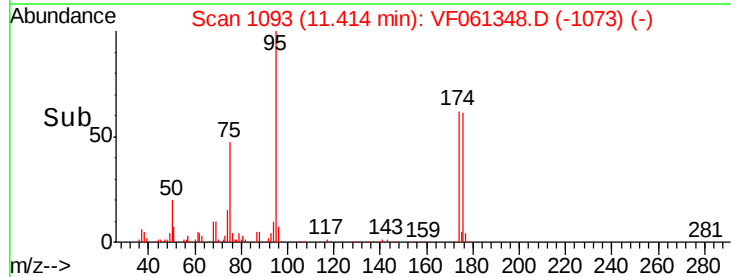
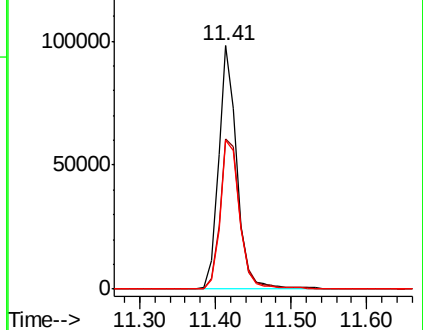
176 61.1 0.0 117.8

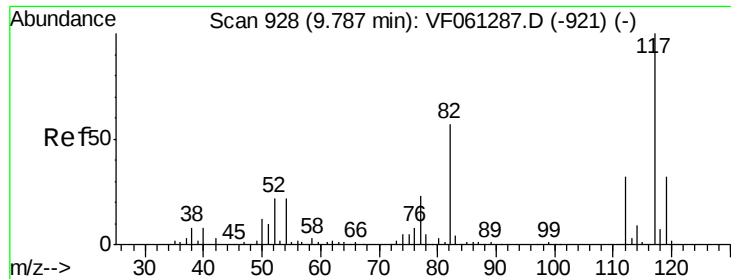


Abundance Ion 95.00 (94.70 to 95.70): VF0

Ion 174.00 (173.70 to 174.70): V

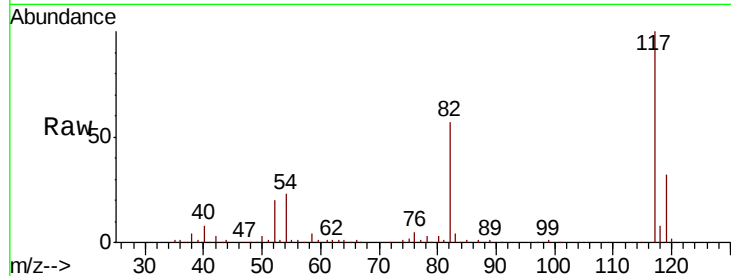
Ion 176.00 (175.70 to 176.70): V



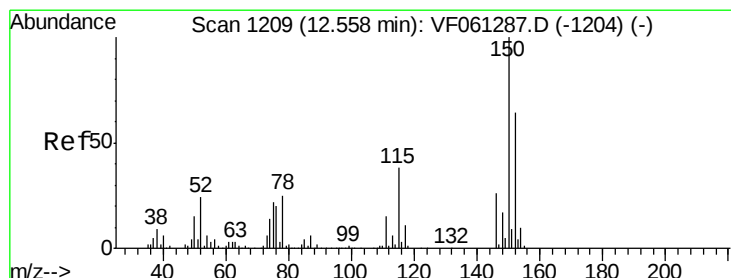
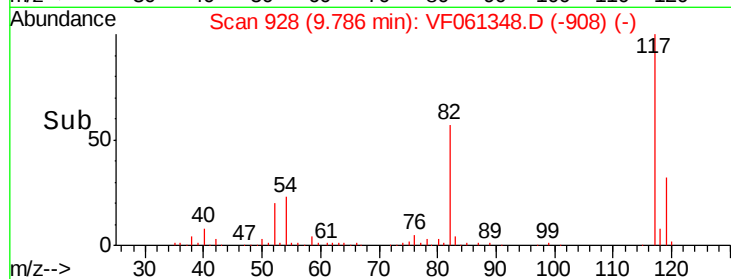
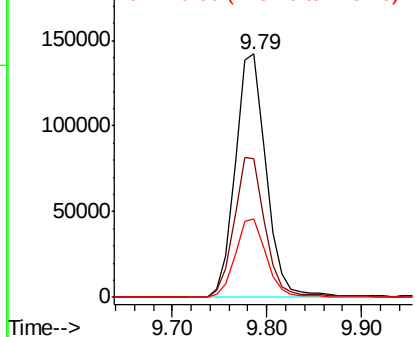


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.79 min Scan# 928
Delta R.T. -0.00 min
Lab File: VF061348.D
Acq: 10 Jan 2019 17:13

Tgt Ion:117 Resp: 322768
Ion Ratio Lower Upper
117 100
82 57.1 45.3 67.9
119 32.4 25.4 38.0

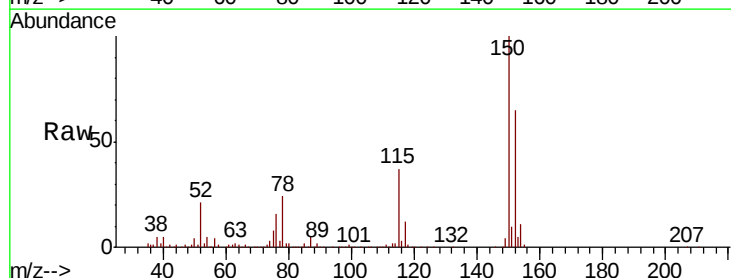


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VF0
Ion 119.00 (118.70 to 119.70): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.56 min Scan# 1209
Delta R.T. -0.00 min
Lab File: VF061348.D
Acq: 10 Jan 2019 17:13

Tgt Ion:152 Resp: 183887
Ion Ratio Lower Upper
152 100
115 56.7 29.6 88.9
150 153.4 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

