

Data Path : Z:\VOASRV\HPCHEM1\MSVOA F\DATA\VF041919\
 Data File : VF062230.D
 Acq On : 19 Apr 2019 17:41
 Operator : FY/SY
 Sample : K2453-01RE
 Misc : 5.00µg/5mL/MSVOA F/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 19 23:02:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82F041719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 19 03:56:19 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.06	168	444848	50.00	ug/l	0.03
34) 1,4-Difluorobenzene	5.78	114	643184	50.00	ug/l	0.02
63) Chlorobenzene-d5	9.91	117	463114	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.62	152	234623	50.00	ug/l	0.01

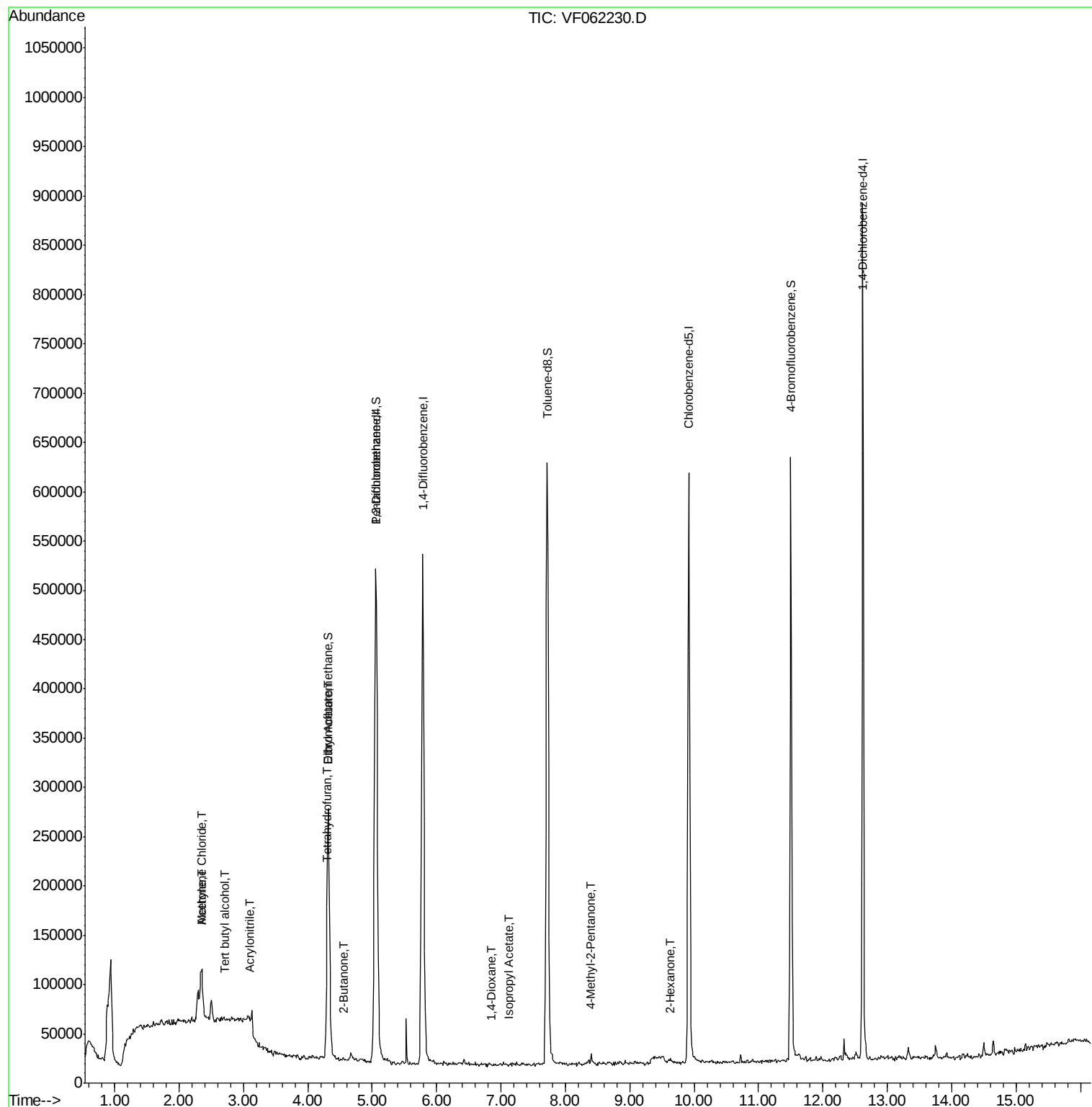
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.04	65	185402	45.45	ug/l	0.03
Spiked Amount			Recovery	=	90.90%	
35) Dibromofluoromethane	4.32	113	248804	44.22	ug/l	0.02
Spiked Amount			Recovery	=	88.44%	
50) Toluene-d8	7.72	98	545644	38.31	ug/l	0.02
Spiked Amount			Recovery	=	76.62%	
62) 4-Bromofluorobenzene	11.50	95	218808	39.94	ug/l	0.02
Spiked Amount			Recovery	=	79.88%	

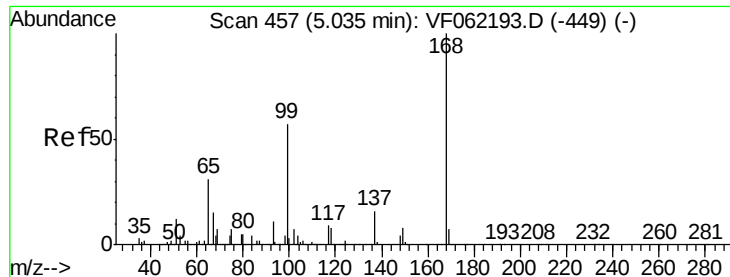
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.72	59	507	1.788	ug/l #	1
13) Acrolein	2.11	56	331	Below Cal	#	1
15) Acrylonitrile	3.10	53	1991	2.305	ug/l #	49
16) Acetone	2.36	43	8953	9.183	ug/l #	52
18) Methyl Acetate	2.49	43	10479	Below Cal	#	65
20) Methylene Chloride	2.35	84	37309	1.749	ug/l #	79
25) 2-Butanone	4.54	43	5334	2.736	ug/l	98
29) Tetrahydrofuran	4.29	42	1730	1.960	ug/l #	39
37) Ethyl Acetate	4.33	43	3790	1.042	ug/l #	74
43) Isopropyl Acetate	7.12	43	3899	1.019	ug/l #	51
49) 1,4-Dioxane	6.85	88	89	3.085	ug/l #	1
51) 4-Methyl-2-Pentanone	8.41	43	3360	1.180	ug/l	91
59) 2-Hexanone	9.63	43	3260	1.973	ug/l	95
74) N-amyl acetate	11.32	43	2232	Below Cal	#	48
89) n-Butylbenzene	12.91	91	2238	Below Cal		87

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.06 min Scan# 460

Delta R.T. 0.03 min

Lab File: VF062230.D

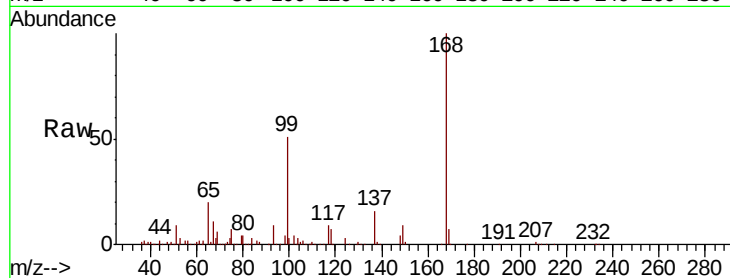
Acq: 19 Apr 2019 17:41

Tot Ion:168 Resp: 444848

Ion Ratio Lower Upper

168 100

99 50.7 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VF0

150000

100000

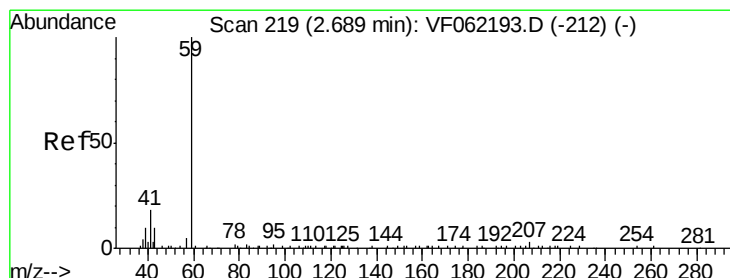
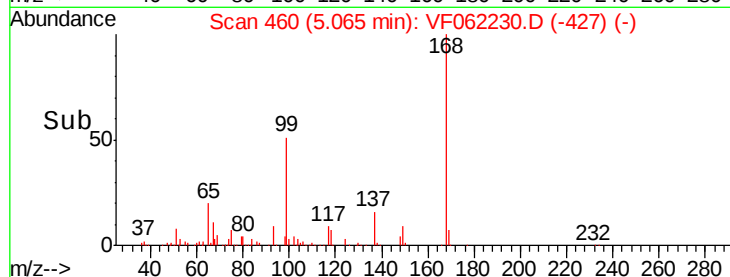
50000

0

Time-->

4.90 5.00 5.10 5.20 5.30

5.06



#11

Tert butyl alcohol

Concen: 1.788 ug/l

RT: 2.72 min Scan# 222

Delta R.T. 0.03 min

Lab File: VF062230.D

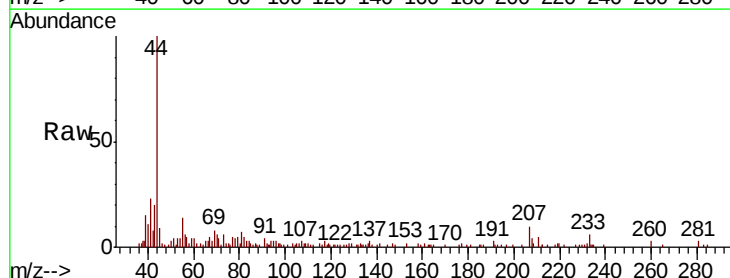
Acq: 19 Apr 2019 17:41

Tgt Ion: 59 Resp: 507

Ion Ratio Lower Upper

59 100

57 98.2 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VF0

Ion 57.00 (56.70 to 57.70): VF0

1000

800

600

400

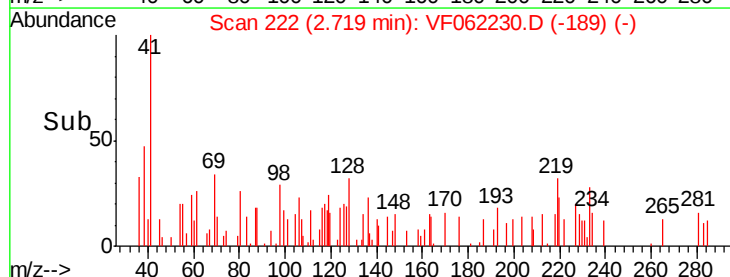
200

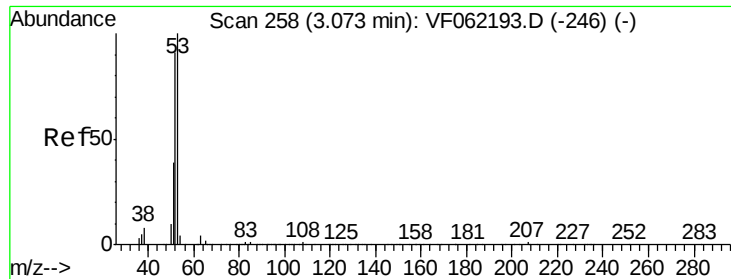
0

Time-->

2.65 2.70 2.75

2.72





#15

Acrylonitrile

Concen: 2.305 ug/l

RT: 3.10 min Scan# 261

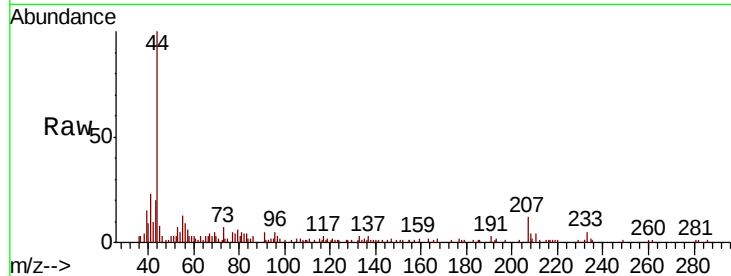
Delta R.T. 0.03 min

Lab File: VF062230.D

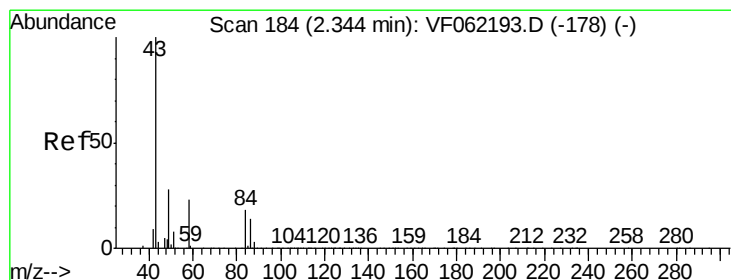
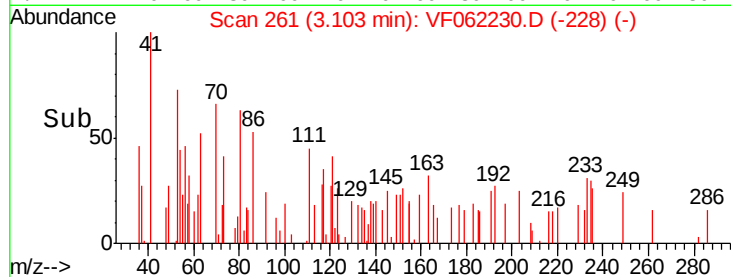
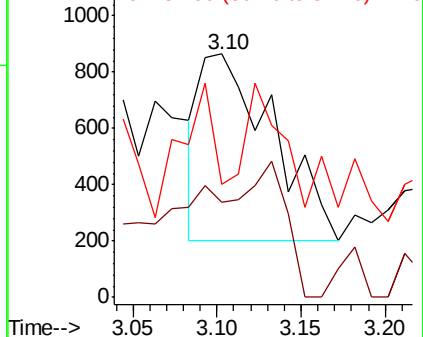
Acq: 19 Apr 2019 17:41

Tot Ion: 53 Resp: 1991

Ion	Ratio	Lower	Upper
53	100		
52	22.6	69.5	104.3#
51	33.5	31.8	47.8



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: 9.183 ug/l

RT: 2.36 min Scan# 186

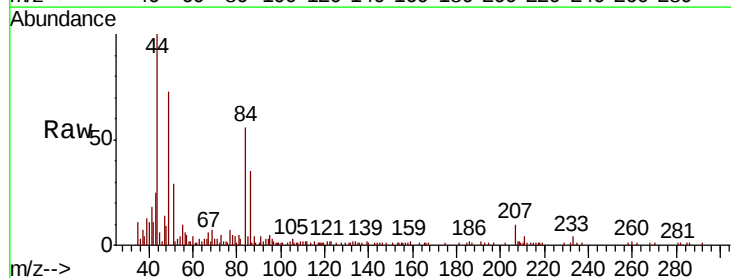
Delta R.T. 0.02 min

Lab File: VF062230.D

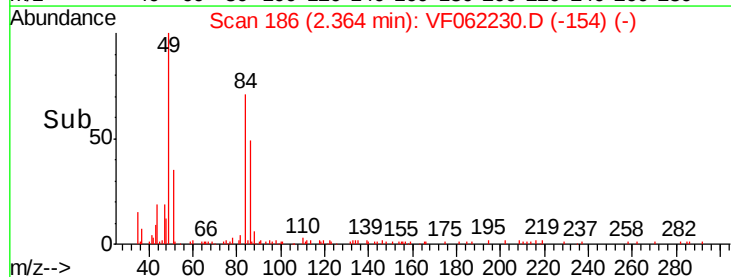
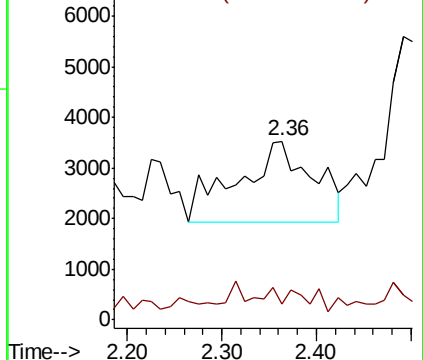
Acq: 19 Apr 2019 17:41

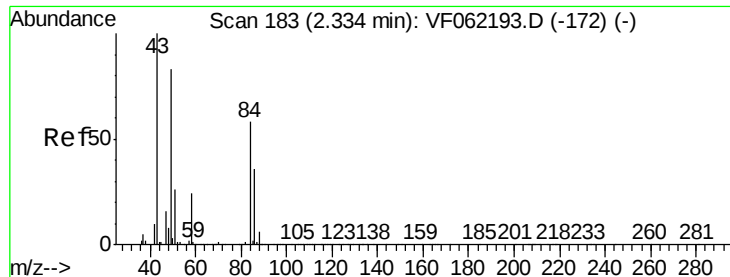
Tgt Ion: 43 Resp: 8953

Ion	Ratio	Lower	Upper
43	100		
58	0.0	18.8	28.2#



Abundance Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

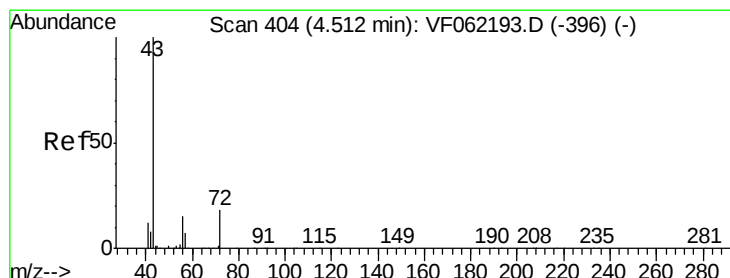
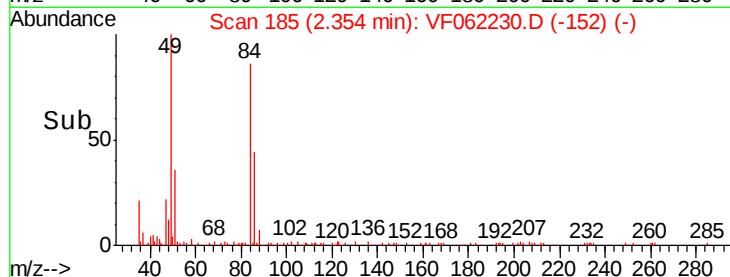
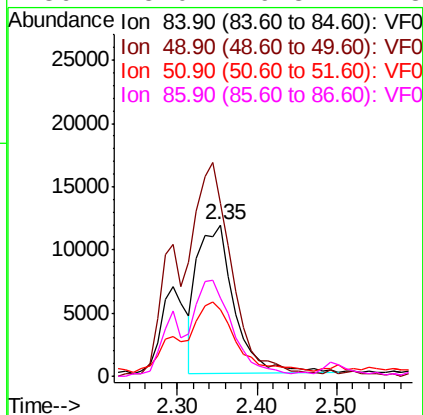
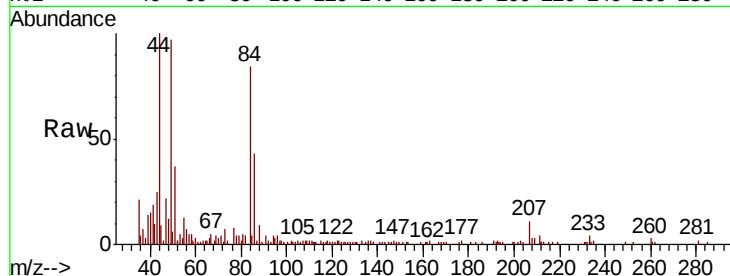




#20
Methvlene Chloride
Concen: 1.749 ug/l
RT: 2.35 min Scan# 185
Delta R.T. 0.02 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

Tot Ion: 84 Resp: 37309

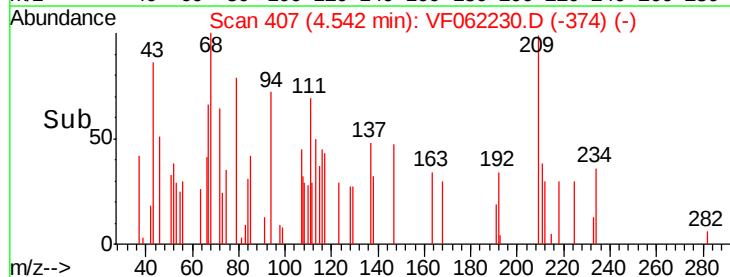
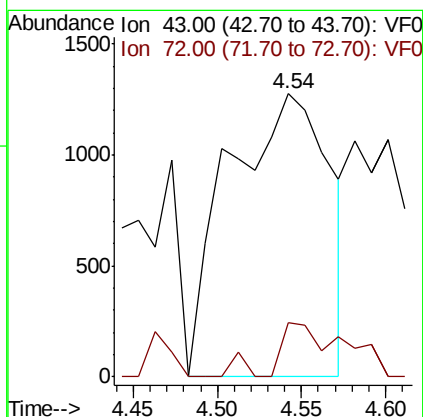
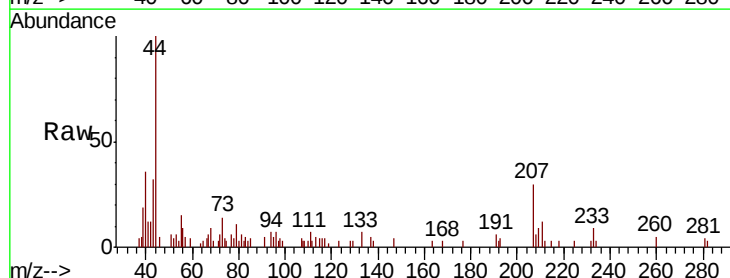
Ion	Ratio	Lower	Upper
84	100		
49	115.4	114.0	171.0
51	37.3	37.0	55.4
86	45.0	49.8	74.8#

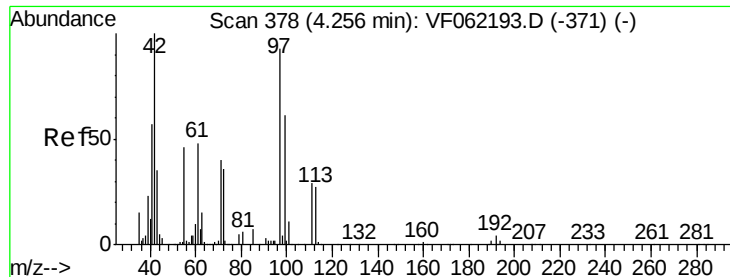


#25
2-Butanone
Concen: 2.736 ug/l
RT: 4.54 min Scan# 407
Delta R.T. 0.03 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

Tgt Ion: 43 Resp: 5334

Ion	Ratio	Lower	Upper
43	100		
72	19.1	16.1	24.1





#29

Tetrahydrofuran

Concen: 1.960 ug/l

RT: 4.29 min Scan# 381

Delta R.T. 0.03 min

Lab File: VF062230.D

Acq: 19 Apr 2019 17:41

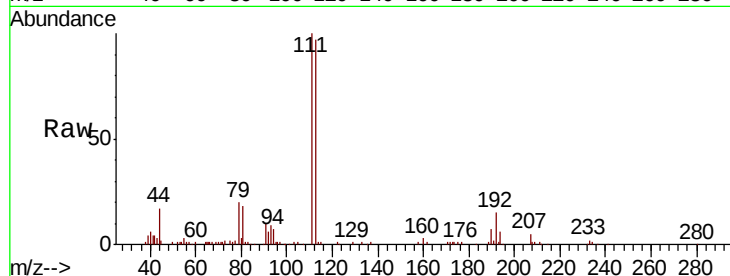
Tot Ion: 42 Resp: 1730

Ion Ratio Lower Upper

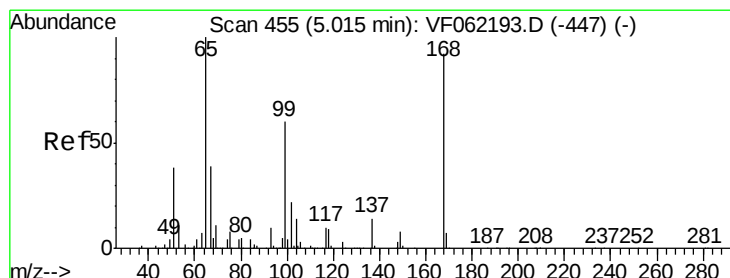
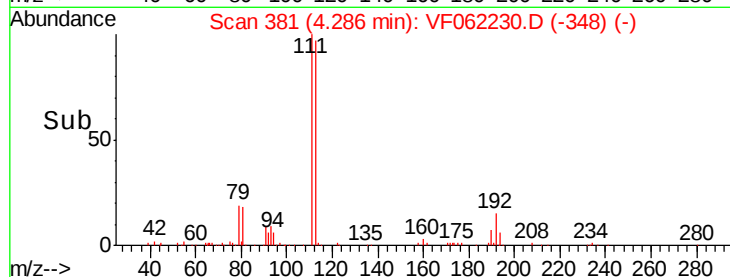
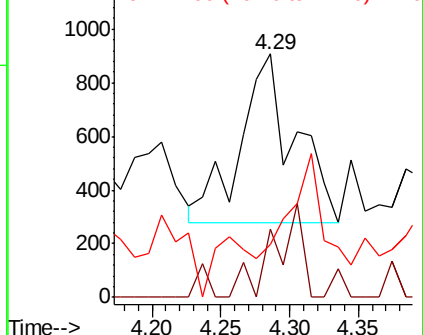
42 100

72 0.0 28.6 43.0#

71 0.0 29.2 43.8#



Abundance Ion 42.00 (41.70 to 42.70): VF0
Ion 72.00 (71.70 to 72.70): VF0
Ion 71.00 (70.70 to 71.70): VF0



#33

1,2-Dichloroethane-d4

Concen: 45.453 ug/l

RT: 5.04 min Scan# 458

Delta R.T. 0.03 min

Lab File: VF062230.D

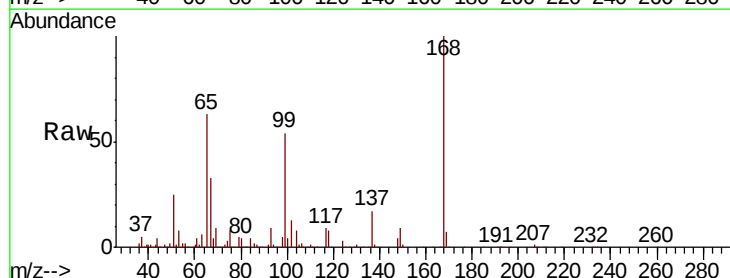
Acq: 19 Apr 2019 17:41

Tgt Ion: 65 Resp: 185402

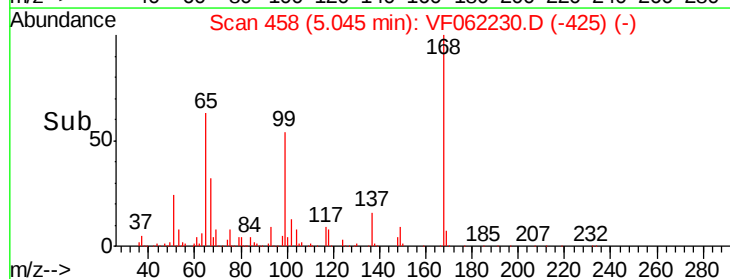
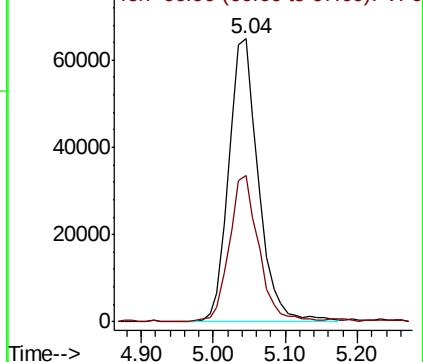
Ion Ratio Lower Upper

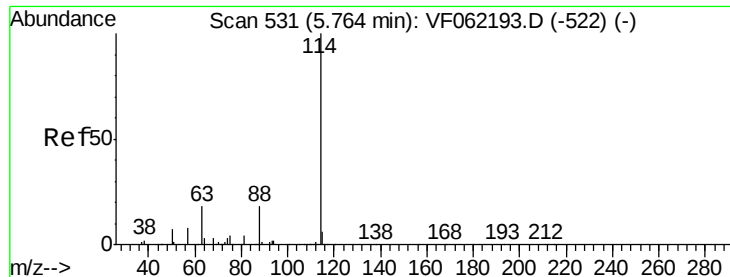
65 100

67 52.0 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VF0
Ion 66.90 (66.60 to 67.60): VF0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.78 min Scan# 533

Delta R.T. 0.02 min

Lab File: VF062230.D

Acq: 19 Apr 2019 17:41

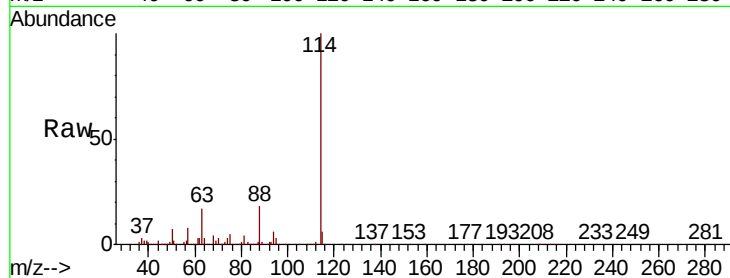
Tot Ion:114 Resp: 643184

Ion Ratio Lower Upper

114 100

63 17.4 0.0 36.6

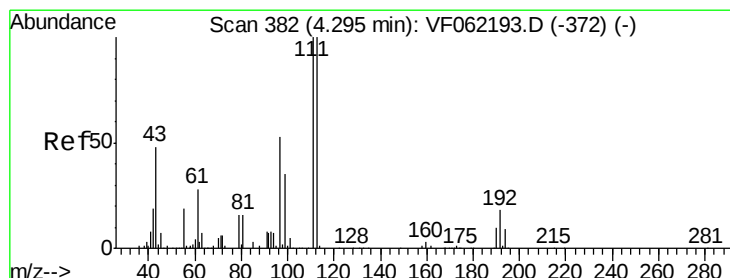
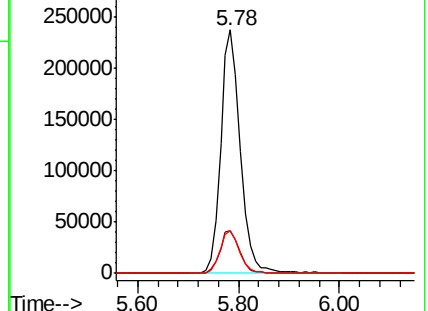
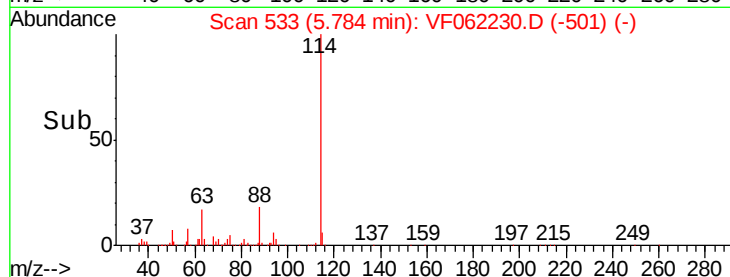
88 17.8 0.0 35.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VF0

Ion 87.90 (87.60 to 88.60): VF0



#35

Dibromofluoromethane

Concen: 44.223 ug/l

RT: 4.32 min Scan# 384

Delta R.T. 0.02 min

Lab File: VF062230.D

Acq: 19 Apr 2019 17:41

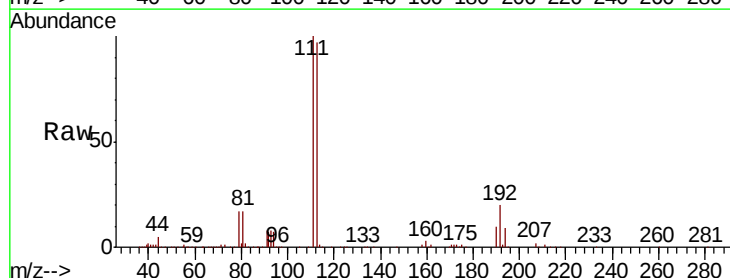
Tgt Ion:113 Resp: 248804

Ion Ratio Lower Upper

113 100

111 101.1 81.1 121.7

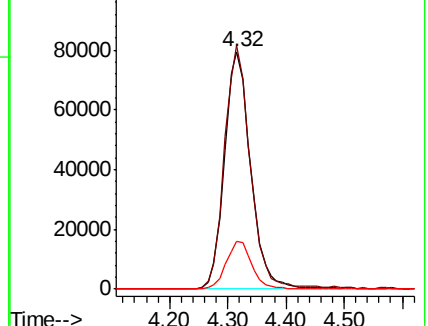
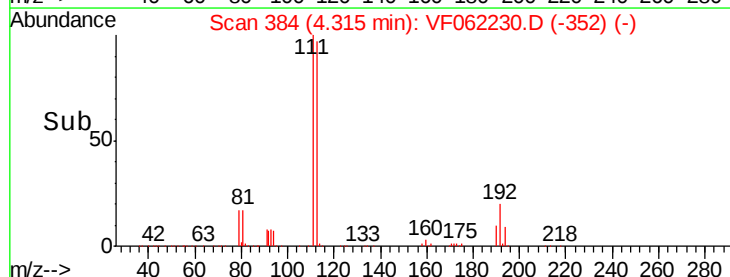
192 19.9 14.7 22.1

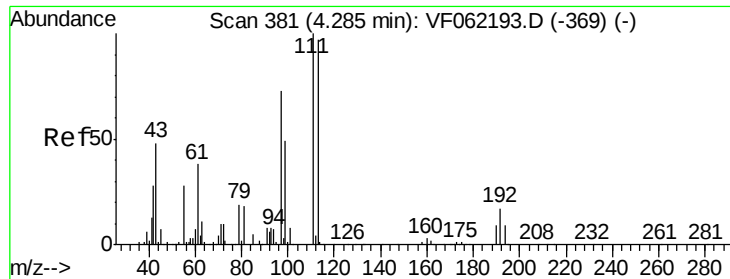


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

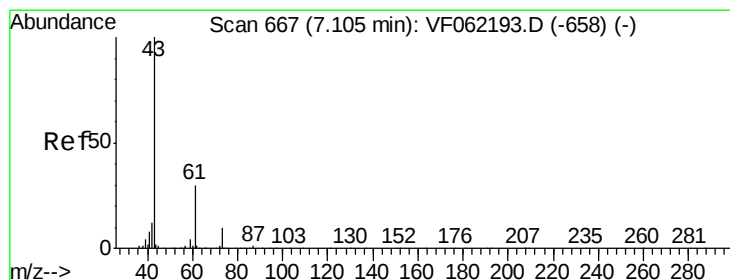
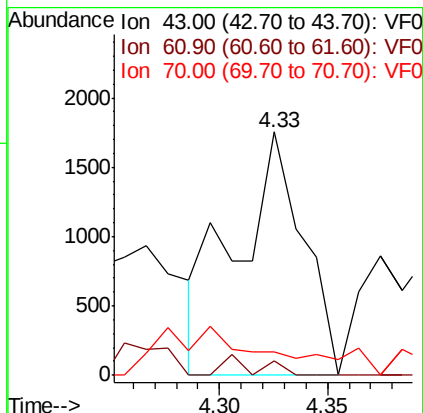
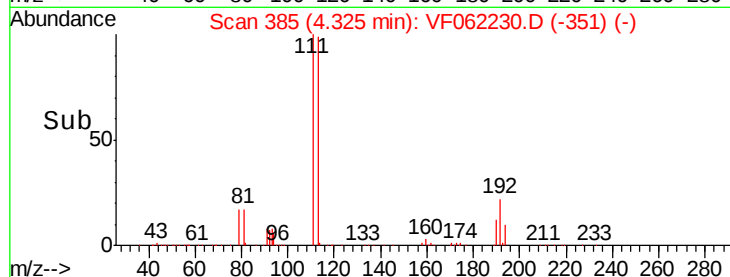
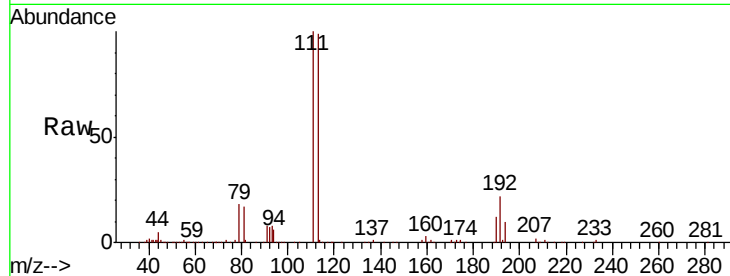
Ion 191.70 (191.40 to 192.40): V





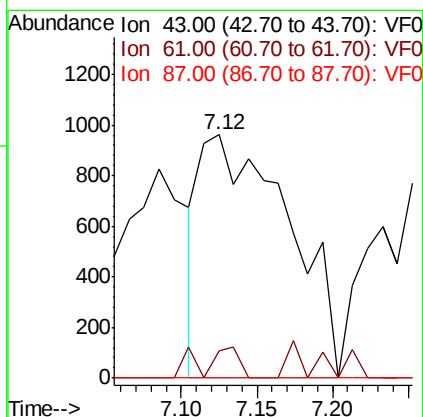
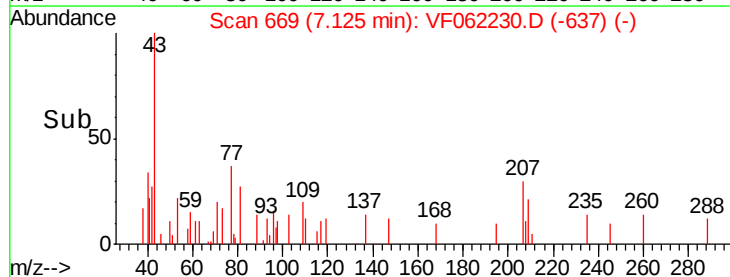
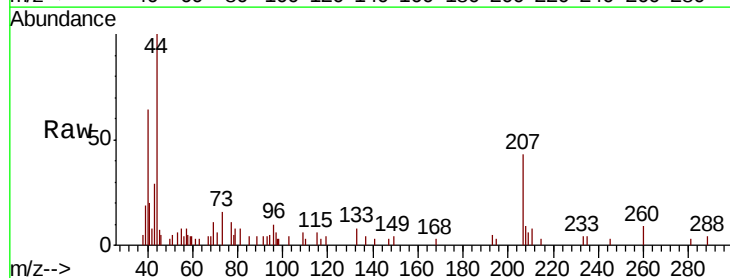
#37
Ethyl Acetate
Concen: 1.042 ug/l
RT: 4.33 min Scan# 385
Delta R.T. 0.04 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

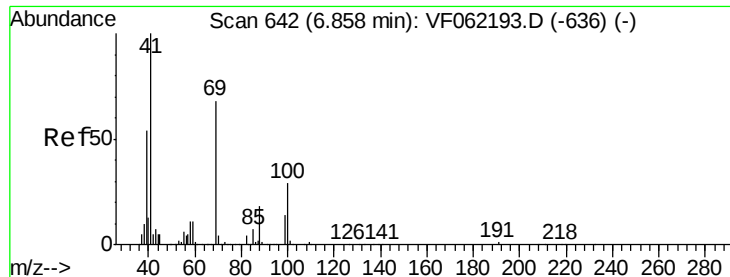
Tot Ion: 43 Resp: 3790
Ion Ratio Lower Upper
43 100
61 0.0 0.0 0.0
70 0.0 7.8 11.6#



#43
Isopropyl Acetate
Concen: 1.019 ug/l
RT: 7.12 min Scan# 669
Delta R.T. 0.02 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

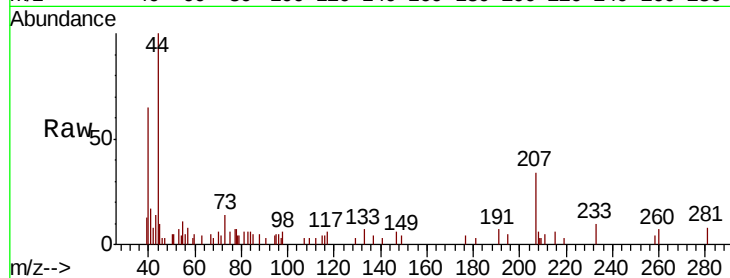
Tgt Ion: 43 Resp: 3899
Ion Ratio Lower Upper
43 100
61 3.5 24.4 36.6#
87 0.0 0.4 0.6#



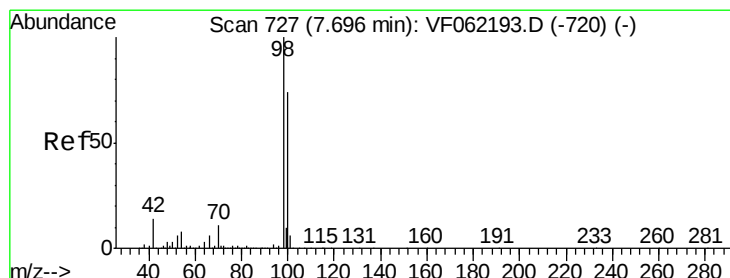
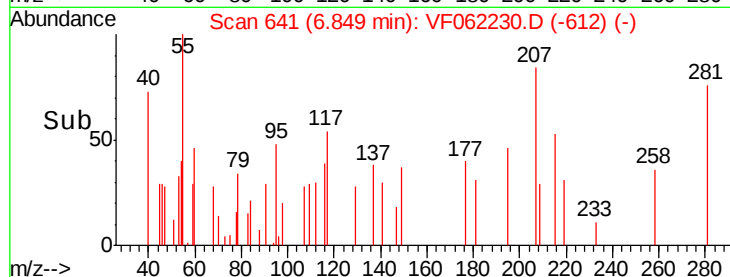
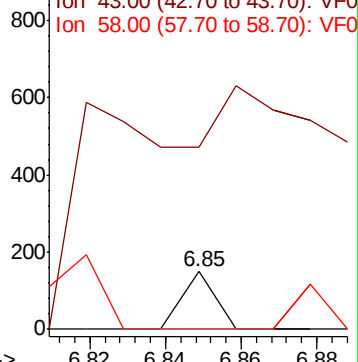


#49
1,4-Dioxane
Concen: 3.085 ug/l
RT: 6.85 min Scan# 641
Delta R.T. -0.01 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

Tot Ion	88	Resp	89
Ion	Ratio	Lower	Upper
88	100		
43	220.2	36.9	55.3#
58	0.0	56.8	85.2#

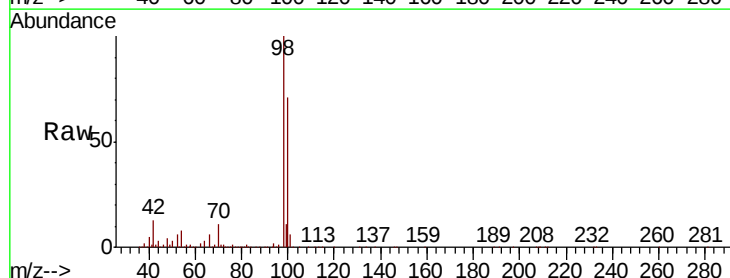


Abundance Ion 88.00 (87.70 to 88.70): VF0
Ion 43.00 (42.70 to 43.70): VF0
Ion 58.00 (57.70 to 58.70): VF0

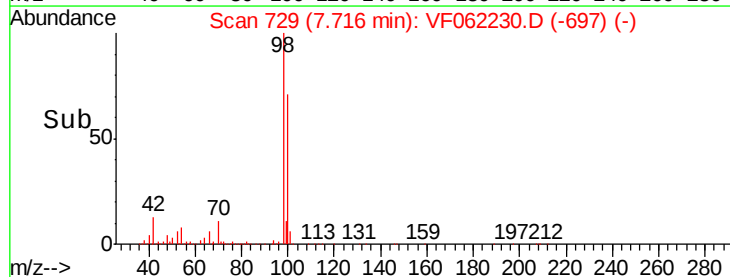
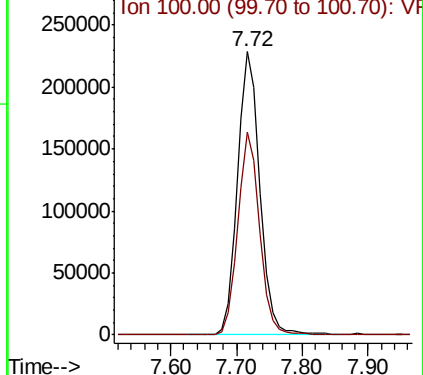


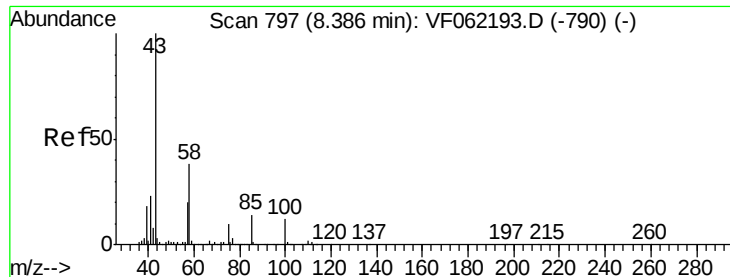
#50
Toluene-d8
Concen: 38.313 ug/l
RT: 7.72 min Scan# 729
Delta R.T. 0.02 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

Tgt Ion	98	Resp	545644
Ion	Ratio	Lower	Upper
98	100		
100	69.9	56.2	84.2



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: 1.180 ug/l

RT: 8.41 min Scan# 799

Delta R.T. 0.02 min

Lab File: VF062230.D

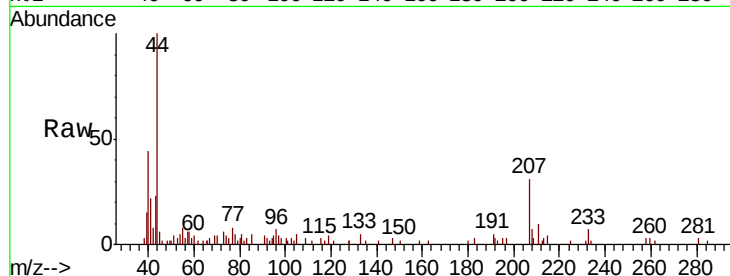
Acq: 19 Apr 2019 17:41

Tot Ion: 43 Resp: 3360

Ion Ratio Lower Upper

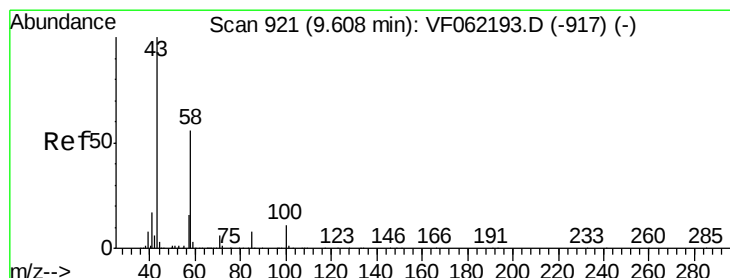
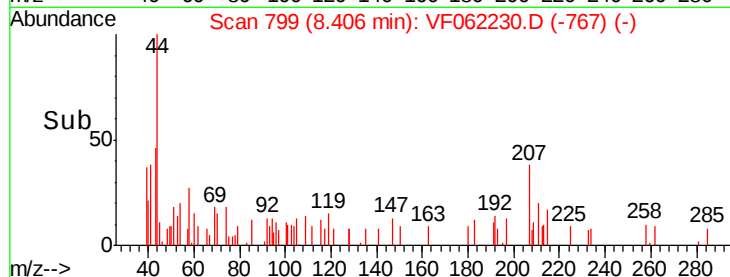
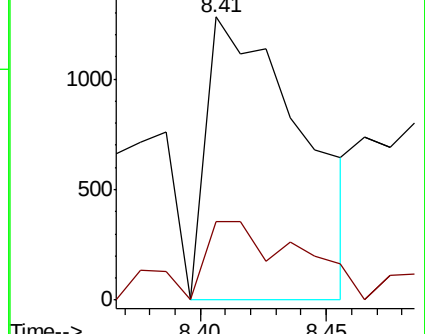
43 100

58 31.3 29.3 43.9



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0



#59

2-Hexanone

Concen: 1.973 ug/l

RT: 9.63 min Scan# 923

Delta R.T. 0.02 min

Lab File: VF062230.D

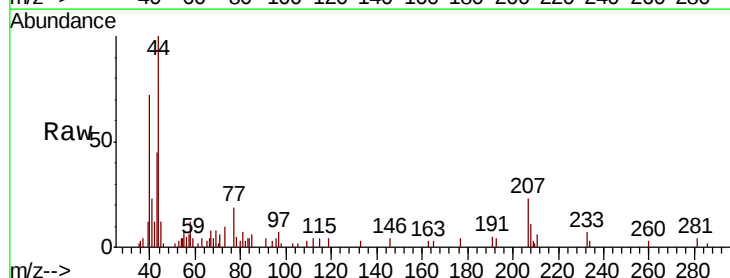
Acq: 19 Apr 2019 17:41

Tgt Ion: 43 Resp: 3260

Ion Ratio Lower Upper

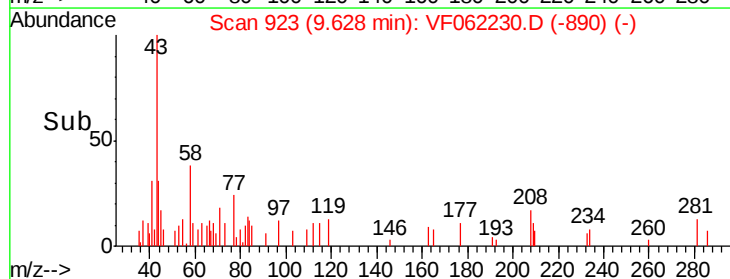
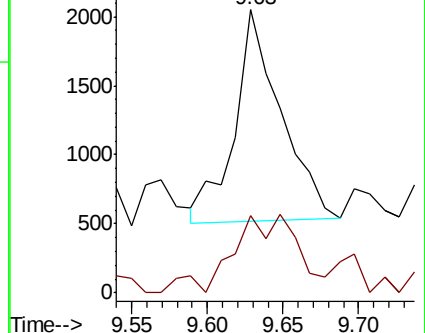
43 100

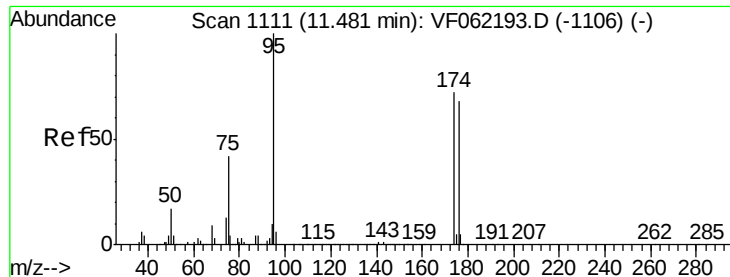
58 53.0 24.6 74.0



Abundance Ion 43.00 (42.70 to 43.70): VF0

Ion 58.00 (57.70 to 58.70): VF0





#62

4-Bromofluorobenzene

Concen: 39.938 ug/l

RT: 11.50 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VF062230.D

Acq: 19 Apr 2019 17:41

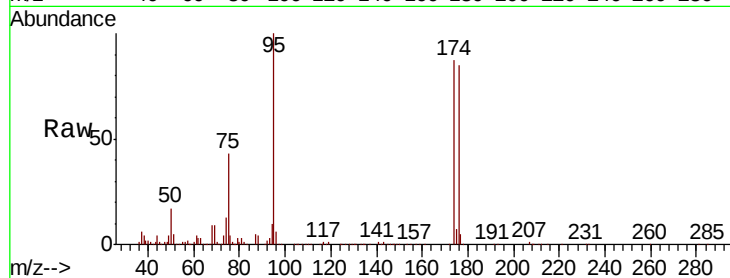
Tot Ion: 95 Resp: 218808

Ion	Ratio	Lower	Upper
95	100		
174	88.0	0.0	159.4
176	87.4	0.0	155.4

95 100

174 88.0 0.0 159.4

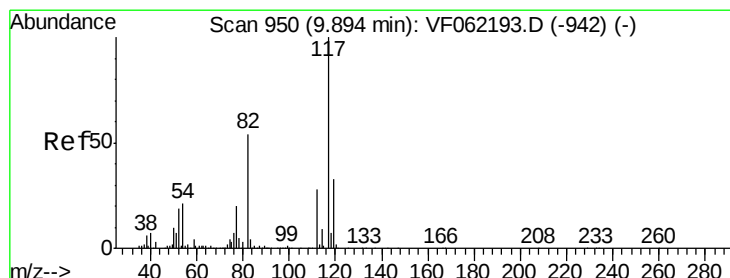
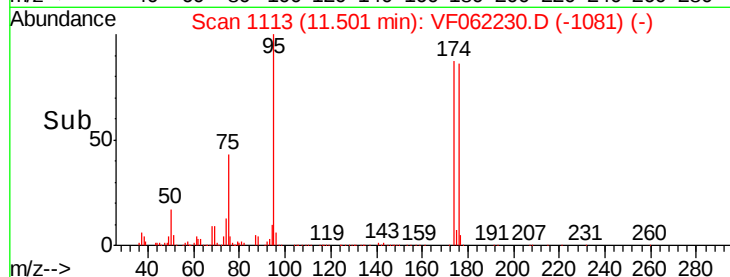
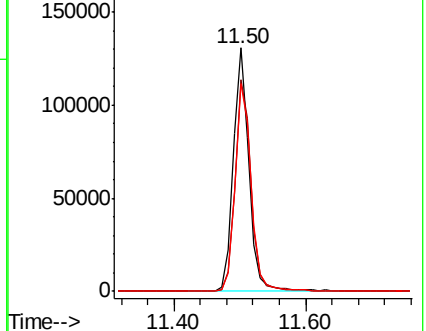
176 87.4 0.0 155.4



Abundance Ion 94.90 (94.60 to 95.60): VF0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.91 min Scan# 952

Delta R.T. 0.02 min

Lab File: VF062230.D

Acq: 19 Apr 2019 17:41

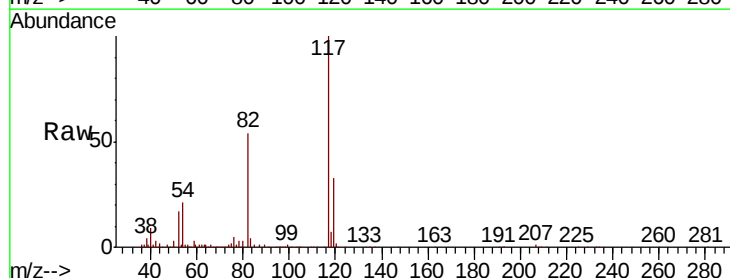
Tgt Ion: 117 Resp: 463114

Ion	Ratio	Lower	Upper
117	100		
82	54.0	43.2	64.8
119	33.3	26.2	39.4

117 100

82 54.0 43.2 64.8

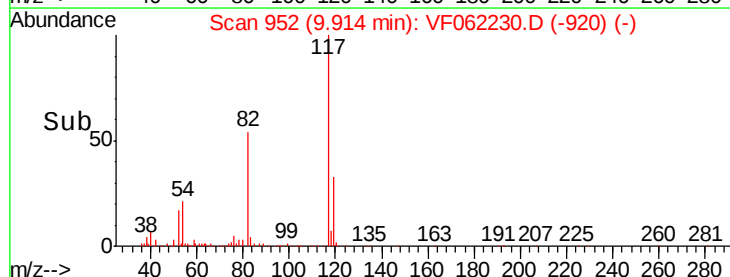
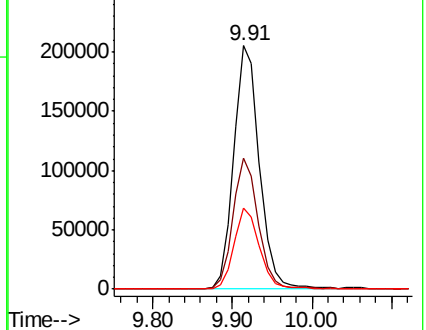
119 33.3 26.2 39.4

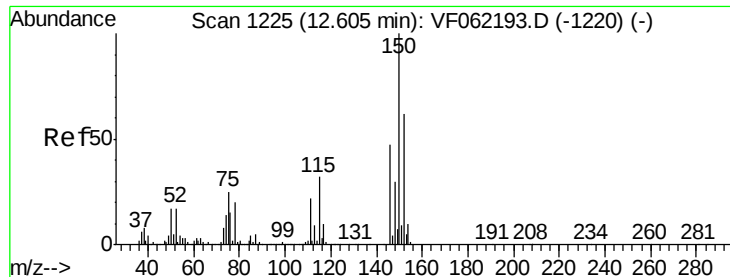


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VF0

Ion 118.90 (118.60 to 119.60): V

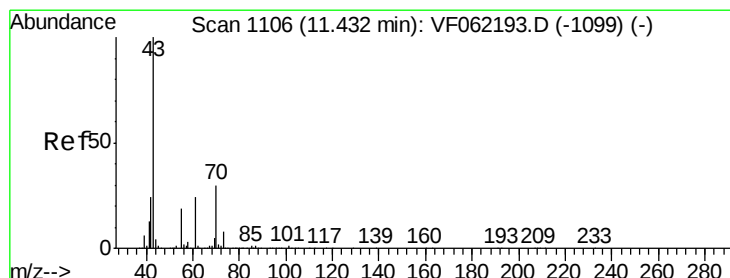
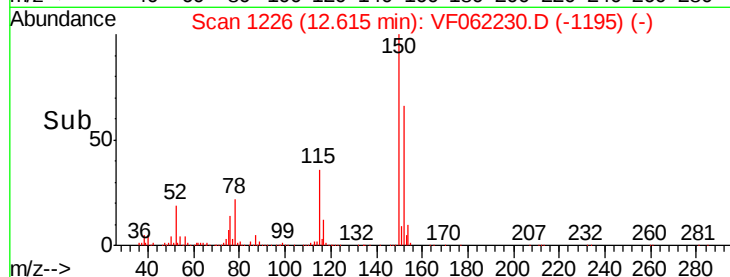
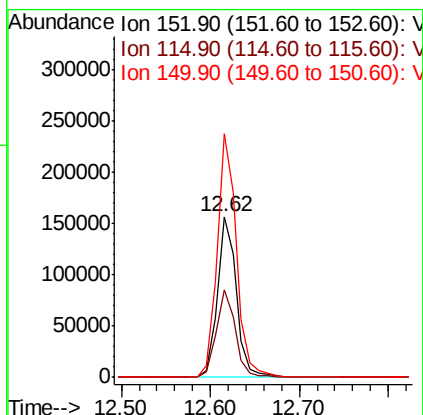
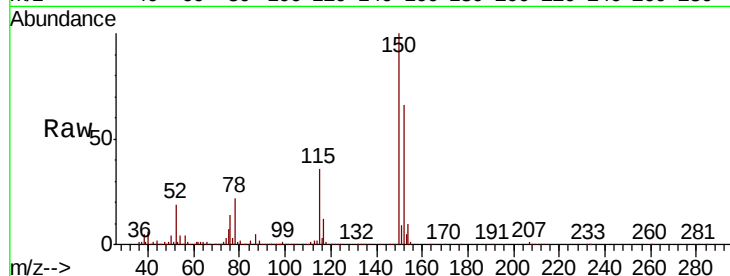




#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.62 min Scan# 1226
Delta R.T. 0.01 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

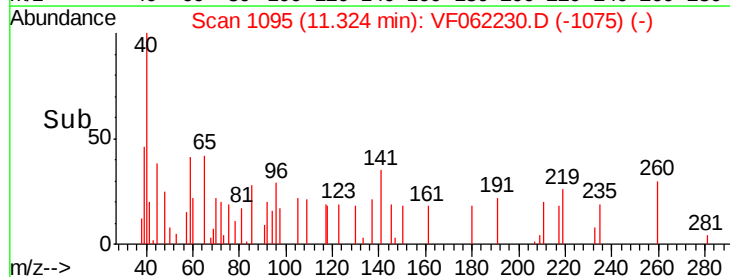
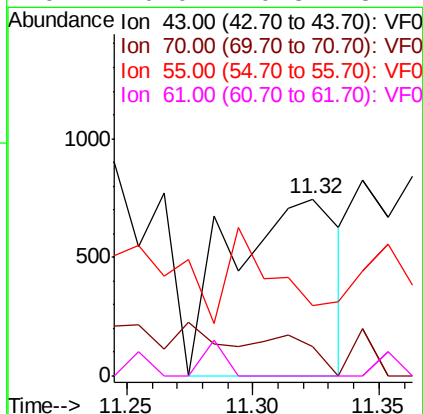
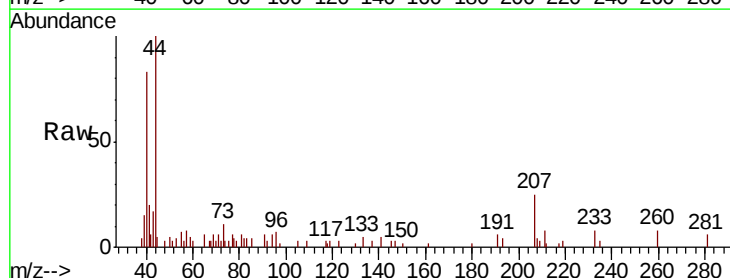
Tot Ion	Ratio	Lower	Upper
152	100		
115	54.3	27.8	83.3
150	154.2	0.0	341.8

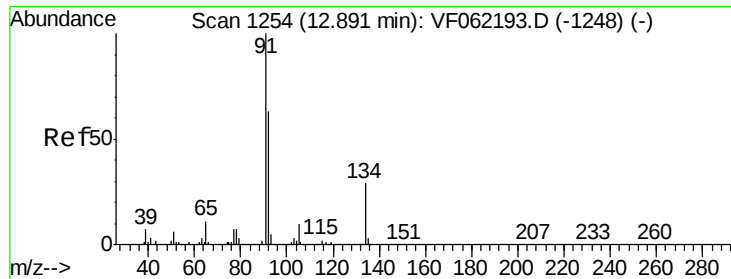


#74

N-ethyl acetate
Concen: Below Cal
RT: 11.32 min Scan# 1095
Delta R.T. -0.11 min
Lab File: VF062230.D
Acq: 19 Apr 2019 17:41

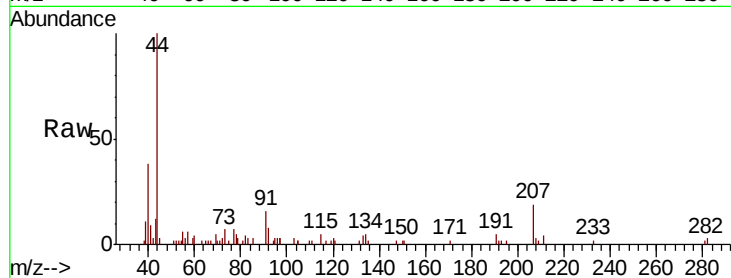
Tgt Ion	Ratio	Lower	Upper
43	100		
70	0.0	27.0	40.4#
55	0.0	15.7	23.5#
61	0.0	20.8	31.2#





#89
 n-Butylbenzene
 Concen: Below Cal
 RT: 12.91 min Scan# 1256
 Delta R.T. 0.02 min
 Lab File: VF062230.D
 Acq: 19 Apr 2019 17:41

Tot Ion:	91	Resp:	2238
Ion	Ratio	Lower	Upper
91	100		
92	51.3	31.2	93.6
134	31.4	13.1	39.1



Abundance Ion 91.00 (90.70 to 91.70): VF0
 Ion 92.00 (91.70 to 92.70): VF0
 Ion 134.00 (133.70 to 134.70): V

