

Data Path : Z:\HPCHEM1\BNA F\DATA\BF050217\
 Data File : BF094815.D
 Acq On : 3 May 2017 2:48
 Operator : SJ/MA
 Sample : I2920-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 03 03:56:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 02 17:18:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.72	152	99319	20.00	ng	0.00
21) Naphthalene-d8	9.75	136	372983	20.00	ng	0.00
38) Acenaphthene-d10	12.58	164	174129	20.00	ng	0.00
63) Phenanthrene-d10	14.98	188	283733	20.00	ng	0.00
75) Chrysene-d12	18.64	240	211799	20.00	ng	-0.01
86) Perylene-d12	20.31	264	173995	20.00	ng	0.00

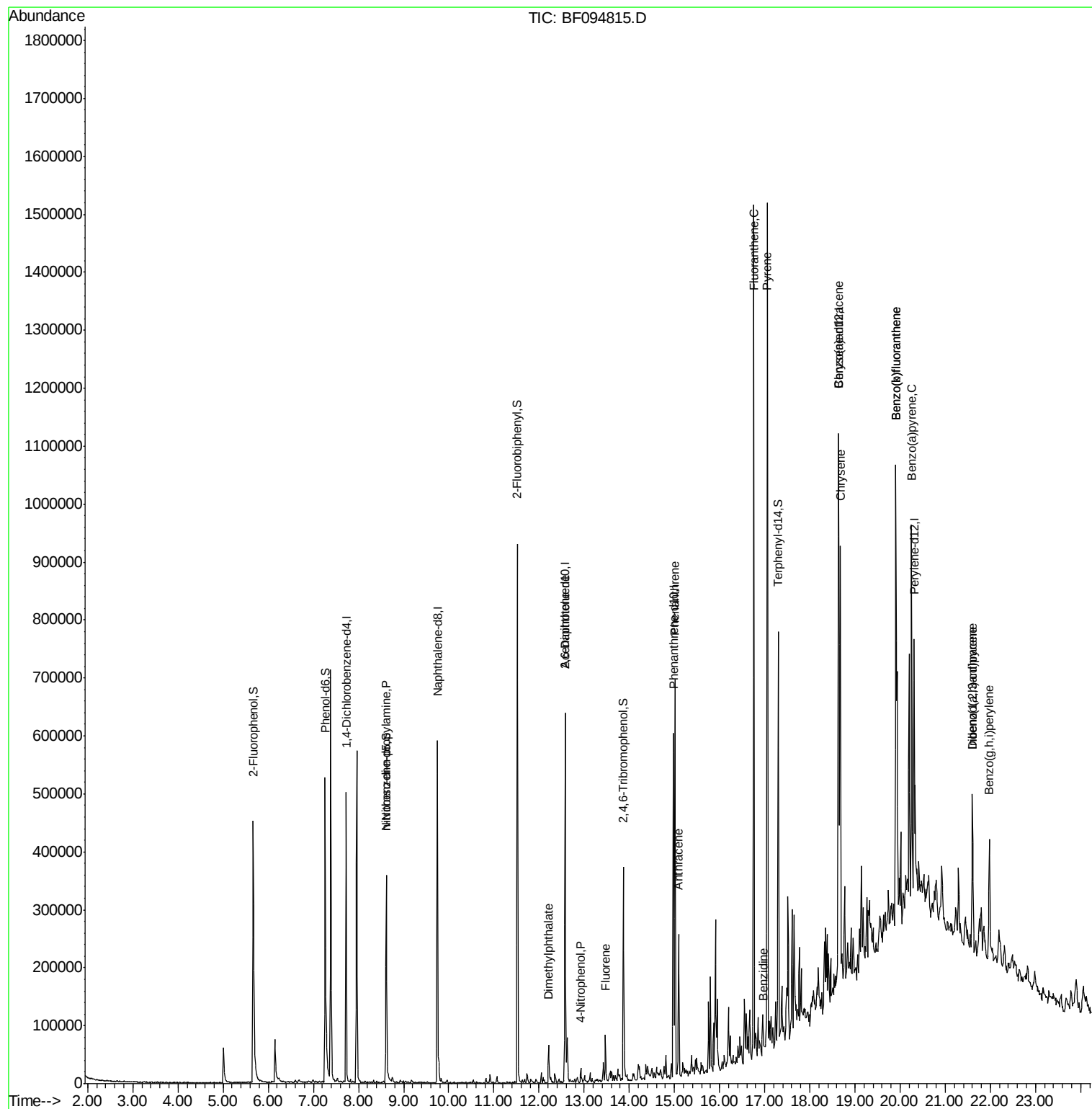
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.67	112	249792	41.93	ng	-0.01
7) Phenol-d6	7.26	99	320976	44.91	ng	-0.02
23) Nitrobenzene-d5	8.61	82	167594	28.33	ng	-0.02
41) 2,4,6-Tribromophenol	13.87	330	58091	40.74	ng	-0.01
44) 2-Fluorobiphenyl	11.52	172	381581	31.54	ng	-0.01
78) Terphenyl-d14	17.30	244	233691	24.30	ng	-0.01

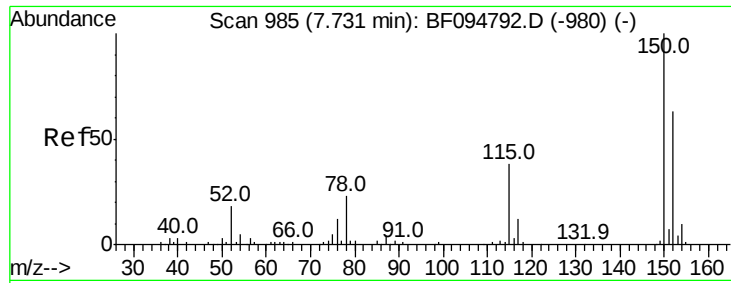
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	8.61	70	21336	4.41	ng	# 78
49) Dimethylphthalate	12.21	163	40304	2.82	ng	98
50) 2,6-Dinitrotoluene	12.58	165	20728	7.11	ng	# 33
55) 4-Nitrophenol	12.92	139	5810	3.09	ng	# 25
57) Fluorene	13.47	166	30548	2.29	ng	96
70) Phenanthrene	15.01	178	338485	20.76	ng	98
71) Anthracene	15.09	178	126211	7.58	ng	97
74) Fluoranthene	16.76	202	720266	43.07	ng	99
76) Benzidine	16.98	184	243	6.63	ng	# 62
77) Pyrene	17.06	202	689318	43.52	ng	97
80) Benzo(a)anthracene	18.64	228	360111	29.21	ng	100
82) Chrysene	18.68	228	315759	26.49	ng	96
85) Indeno(1,2,3-cd)pyrene	21.60	276	147326	15.22	ng	93
87) Benzo(b)fluoranthene	19.91	252	571215	53.13	ng	98
88) Benzo(k)fluoranthene	19.91	252	571215	55.08	ng	98
89) Benzo(a)pyrene	20.25	252	291147	29.35	ng	96
90) Dibenzo(a,h)anthracene	21.61	278	38741	4.73	ng	# 77
91) Benzo(g,h,i)perylene	21.98	276	139789	17.39	ng	97

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

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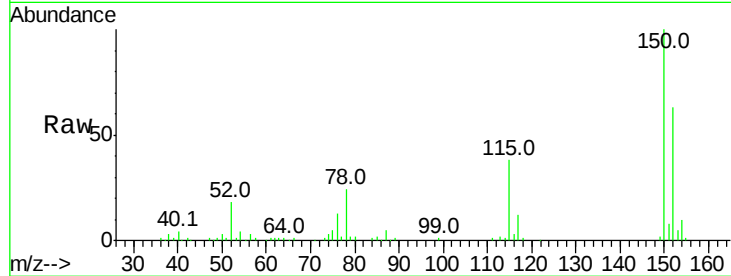




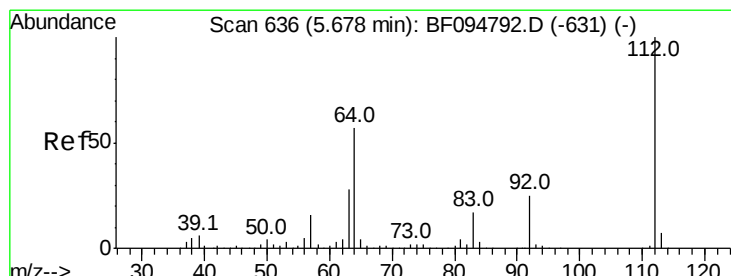
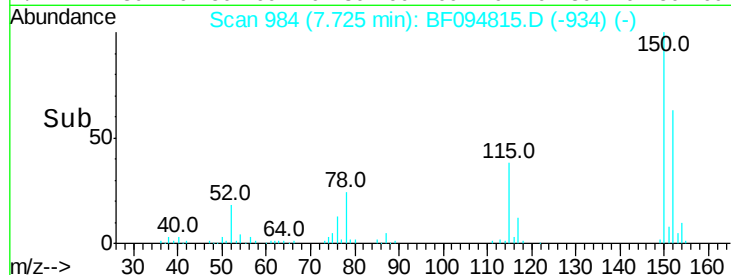
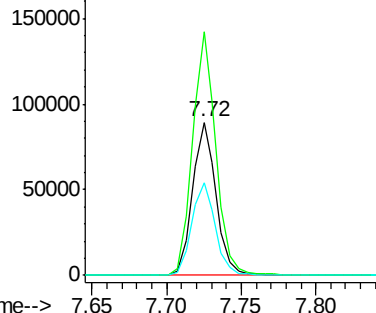
#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.72 min Scan# 984
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tot Ion:152 Resp: 99319
Ion Ratio Lower Upper
152 100
150 159.4 126.2 189.2
115 60.4 52.2 78.2



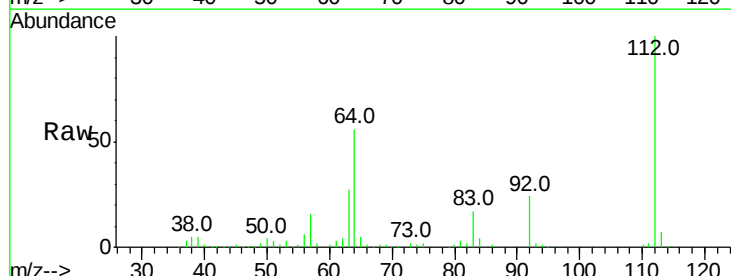
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



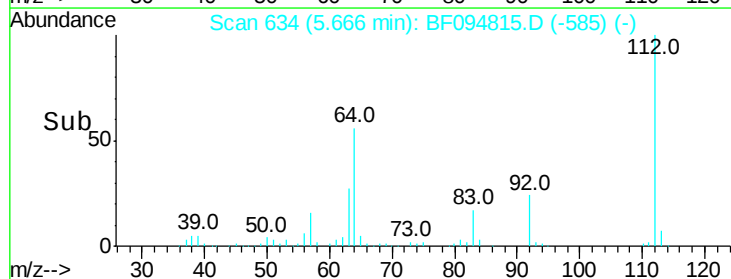
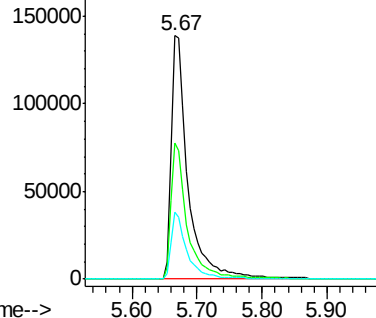
#5

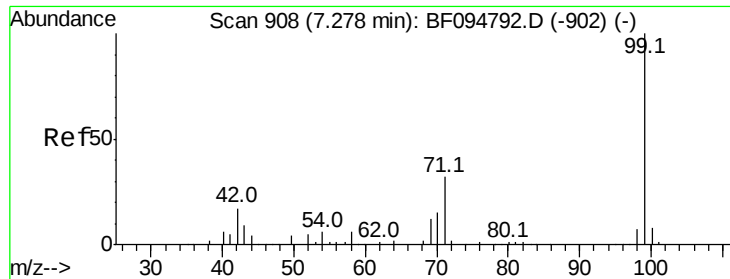
2-Fluorophenol
Concen: 41.93 ng
RT: 5.67 min Scan# 634
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tgt Ion:112 Resp: 249792
Ion Ratio Lower Upper
112 100
64 55.8 46.0 69.0
63 27.5 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 44.91 ng

RT: 7.26 min Scan# 905

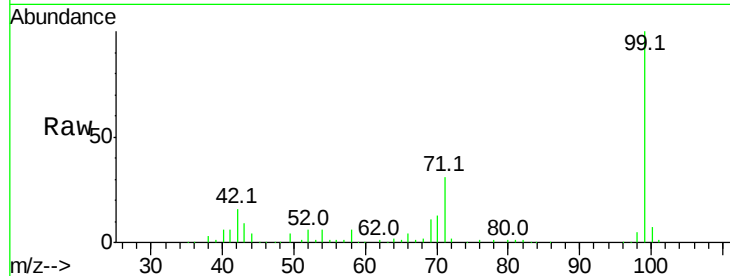
Delta R.T. -0.02 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

Tot Ion: 99 Resp: 320976

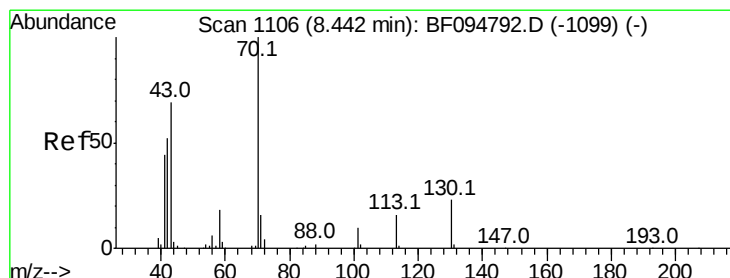
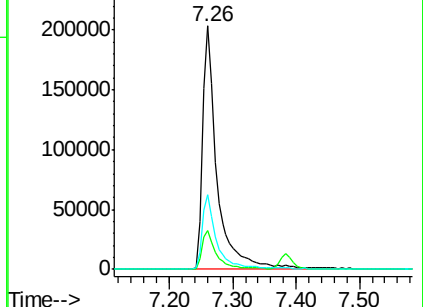
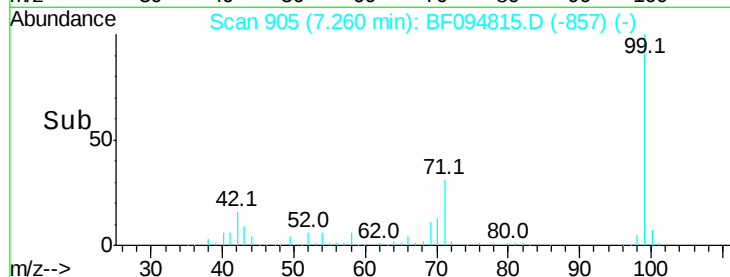
Ion	Ratio	Lower	Upper
99	100		
42	16.1	13.5	20.3
71	30.9	24.5	36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 4.41 ng

RT: 8.61 min Scan# 1135

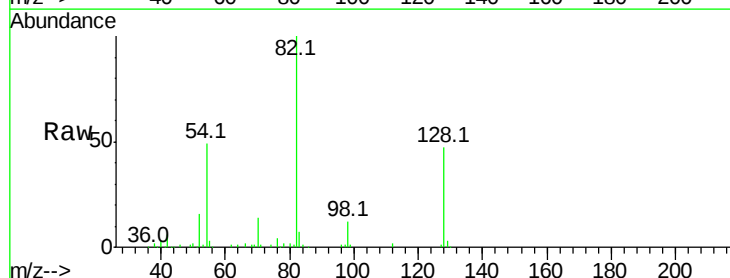
Delta R.T. 0.17 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

Tgt Ion: 70 Resp: 21336

Ion	Ratio	Lower	Upper
70	100		
42	47.6	47.2	70.8
101	0.0	7.2	10.8#
130	2.0	15.9	23.9#

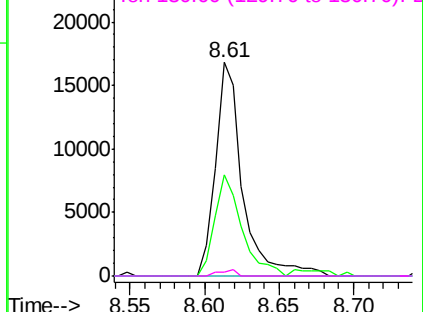
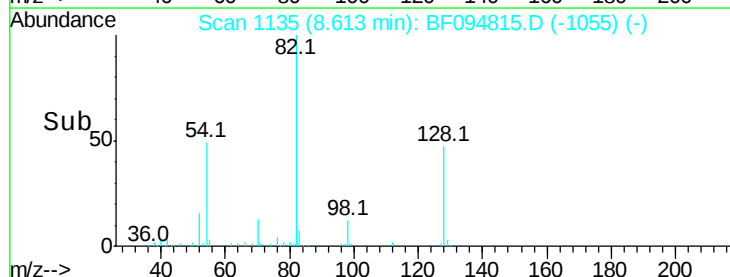


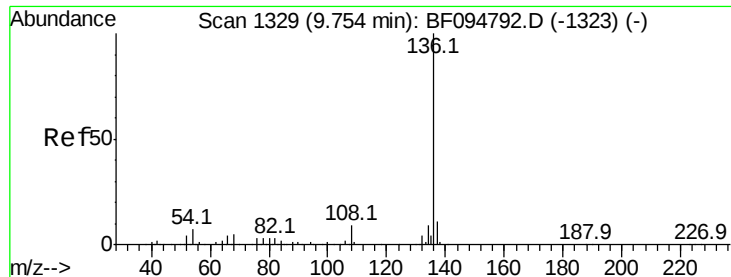
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

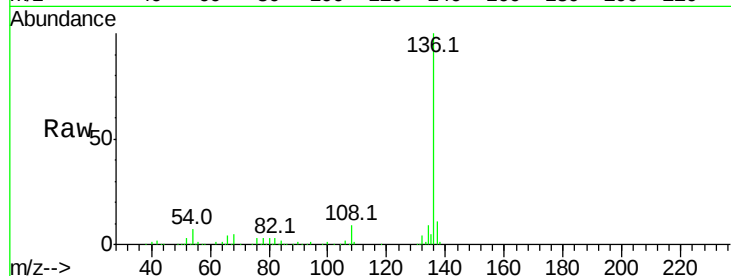
Ion 130.00 (129.70 to 130.70): E



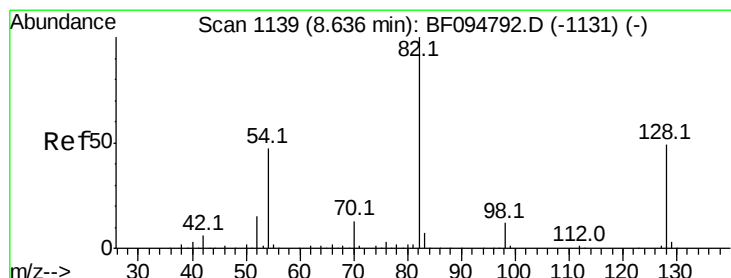
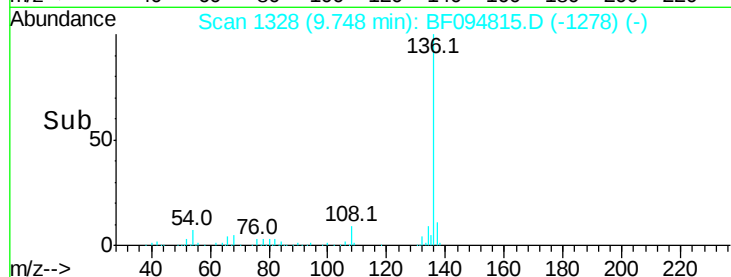
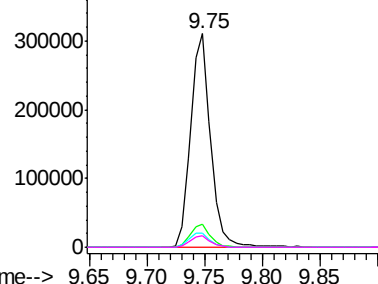


#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.75 min Scan# 1328
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tot Ion:136	Resp: 372983
Ion Ratio	Lower Upper
136 100	
137 11.0	8.5 12.7
54 6.6	4.9 7.3
68 5.2	4.1 6.1

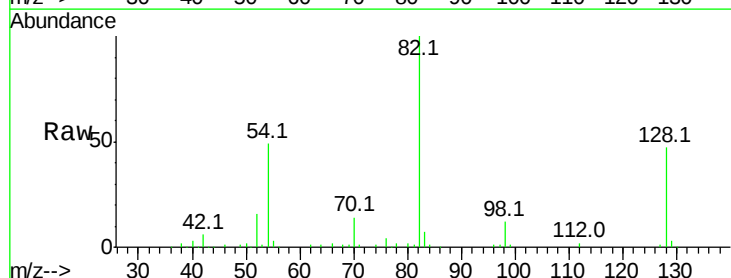


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

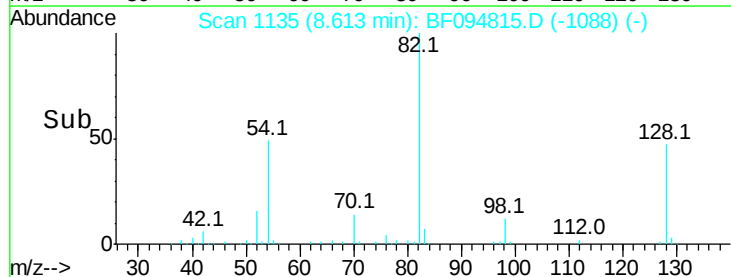
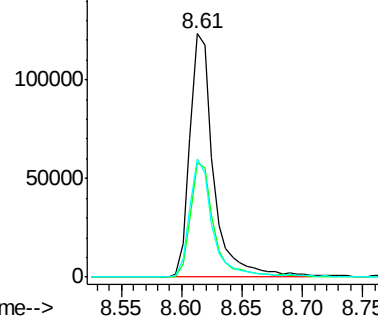


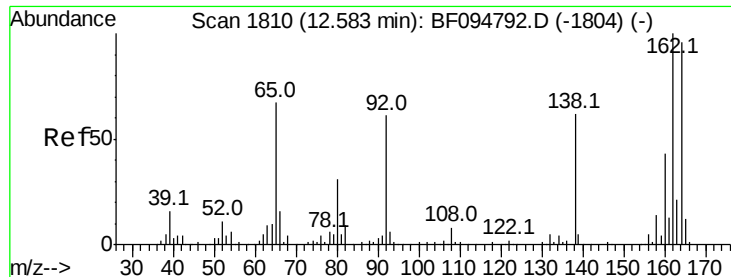
#23
Nitrobenzene-d5
Concen: 28.33 ng
RT: 8.61 min Scan# 1135
Delta R.T. -0.02 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tgt Ion: 82	Resp: 167594
Ion Ratio	Lower Upper
82 100	
128 47.0	34.0 51.0
54 48.7	42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.58 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

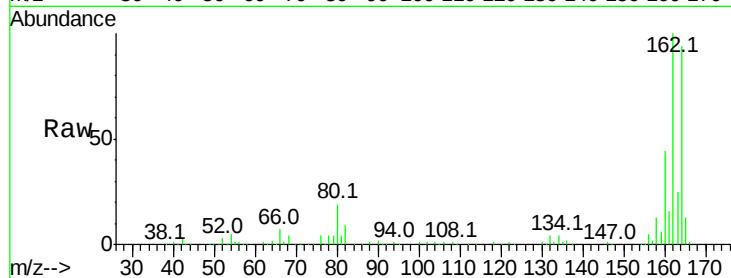
Tot Ion:164 Resp: 174129

Ion Ratio Lower Upper

164 100

162 106.0 82.6 123.8

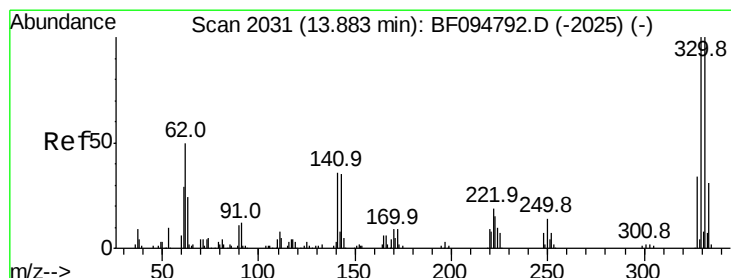
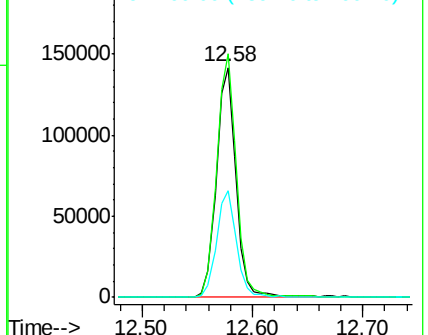
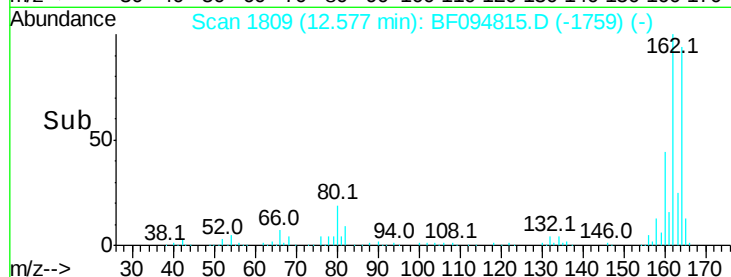
160 46.7 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 40.74 ng

RT: 13.87 min Scan# 2029

Delta R.T. -0.01 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

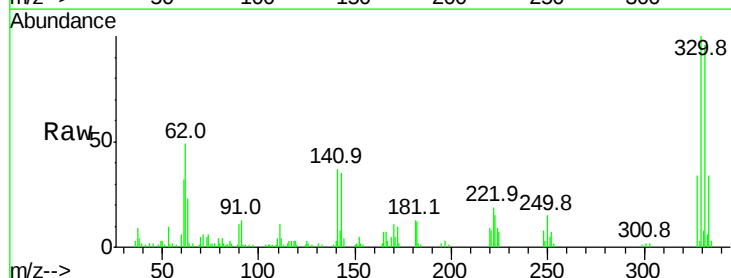
Tgt Ion:330 Resp: 58091

Ion Ratio Lower Upper

330 100

332 95.7 76.6 115.0

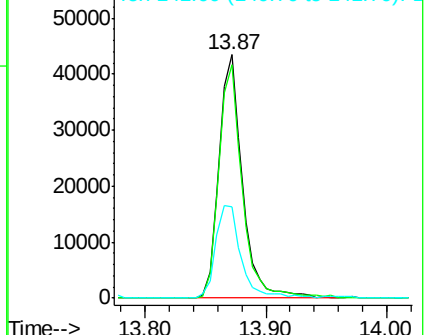
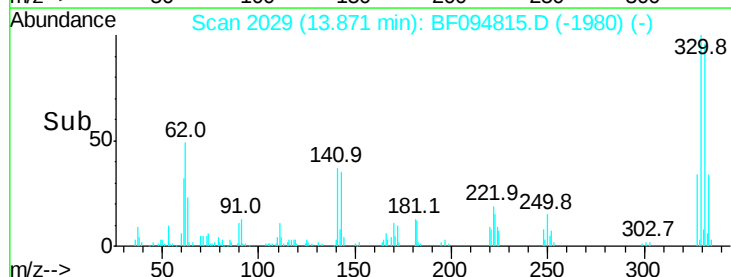
141 41.2 31.4 47.2

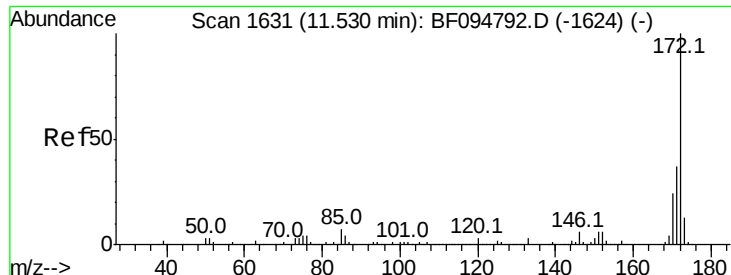


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

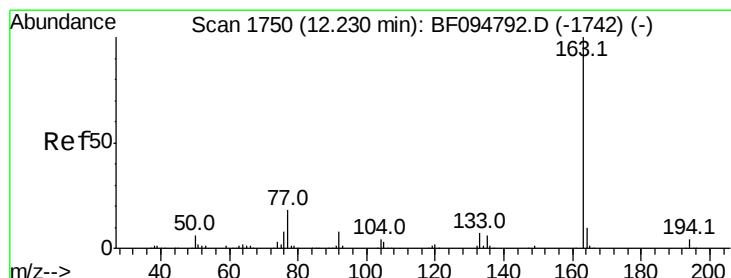
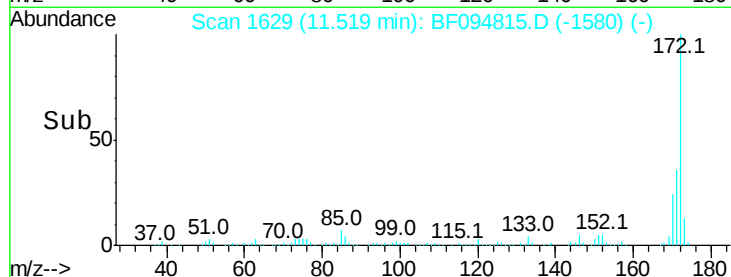
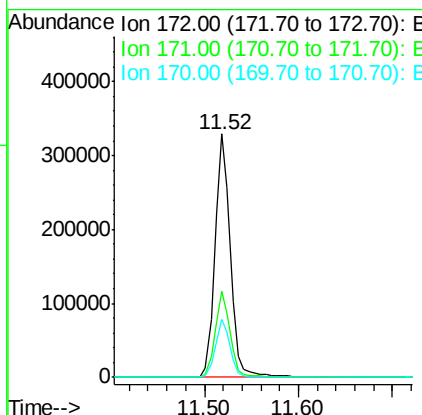
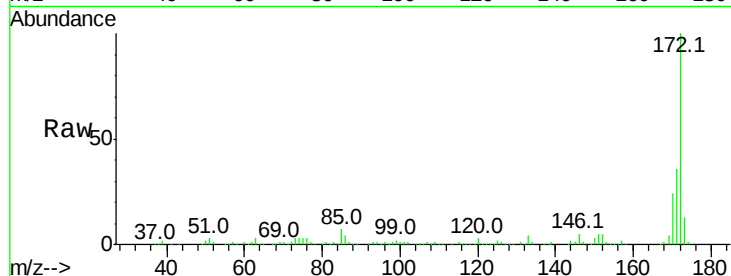
Ion 141.00 (140.70 to 141.70): E





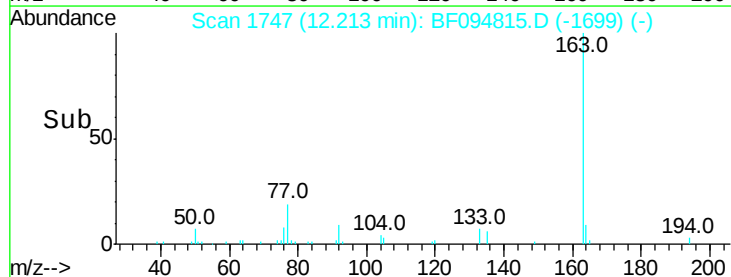
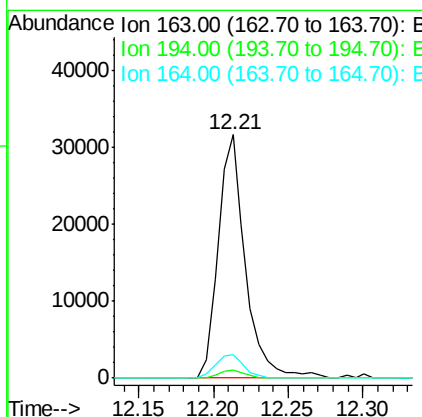
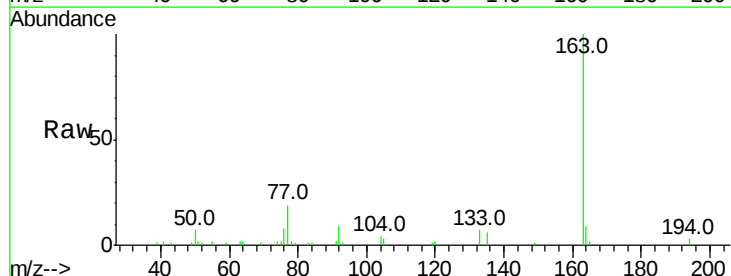
#44
2-Fluorobiphenyl
Concen: 31.54 ng
RT: 11.52 min Scan# 1629
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

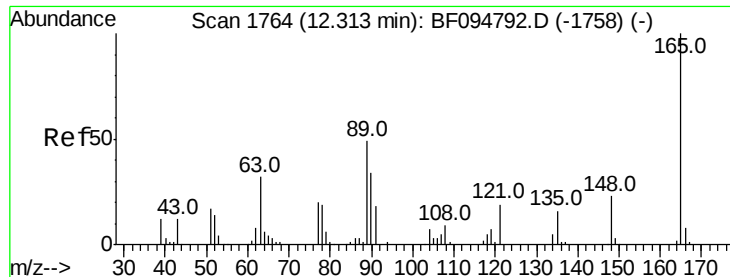
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.6	44.4
170	23.7	19.8	29.8



#49
Dimethylphthalate
Concen: 2.82 ng
RT: 12.21 min Scan# 1747
Delta R.T. -0.02 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

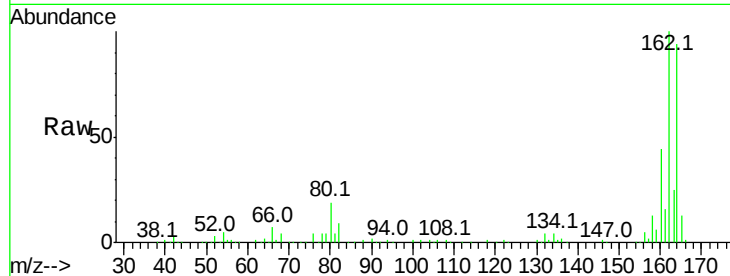
Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	9.5	8.4	12.6





#50
 2,6-Dinitrotoluene
 Concen: 7.11 ng
 RT: 12.58 min Scan# 1809
 Delta R.T. 0.26 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

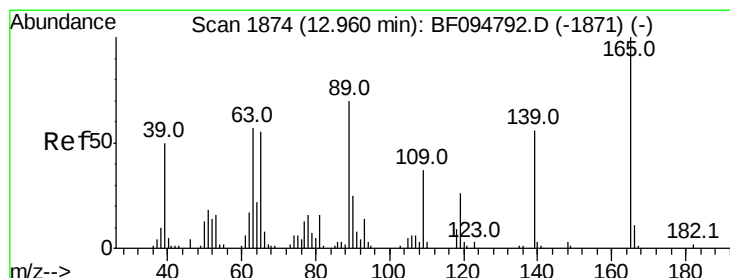
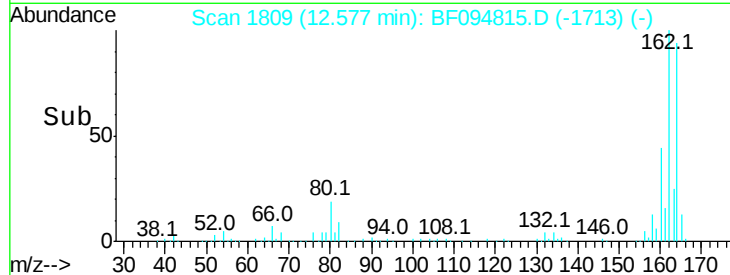
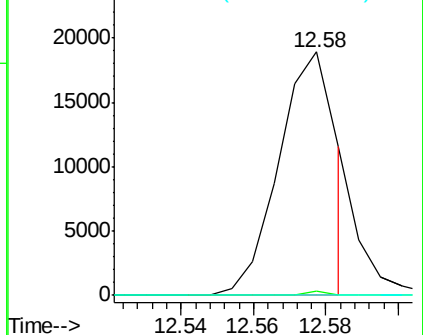
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	34.3	51.5#
89	0.0	37.1	55.7#



Abundance Ion 165.00 (164.70 to 165.70): E

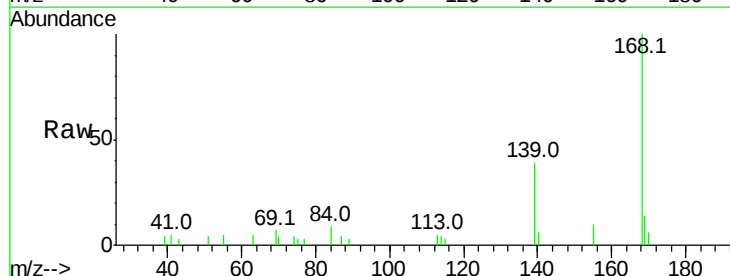
Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#55
 4-Nitrophenol
 Concen: 3.09 ng
 RT: 12.92 min Scan# 1868
 Delta R.T. -0.04 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

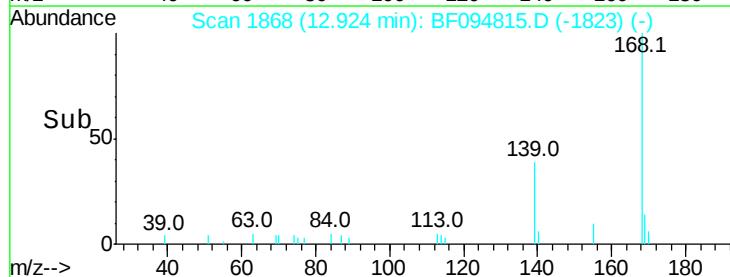
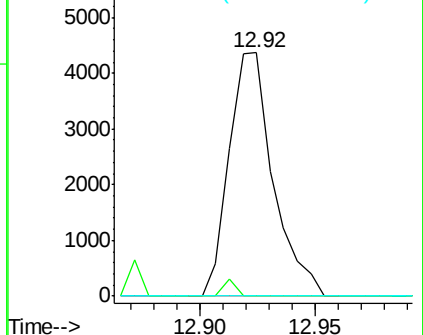
Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	0.0	31.4	71.4#

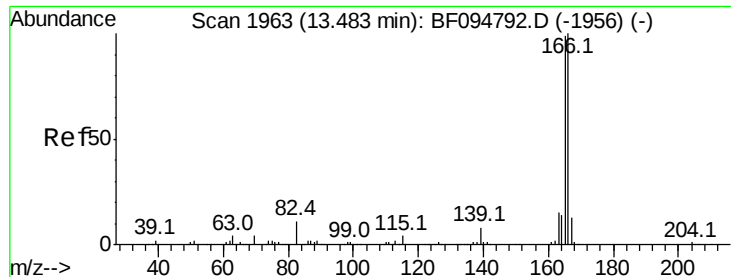


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

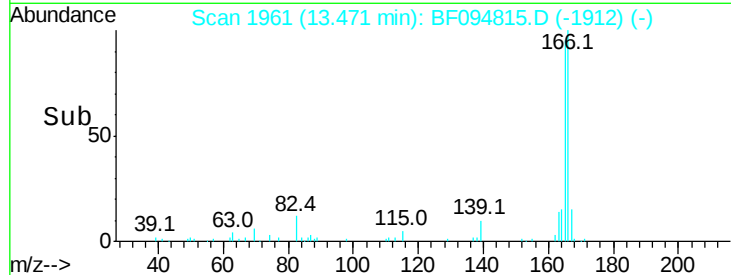
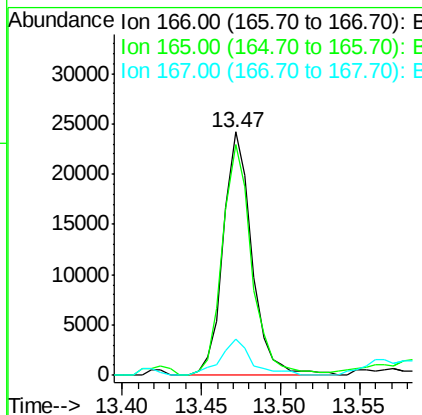
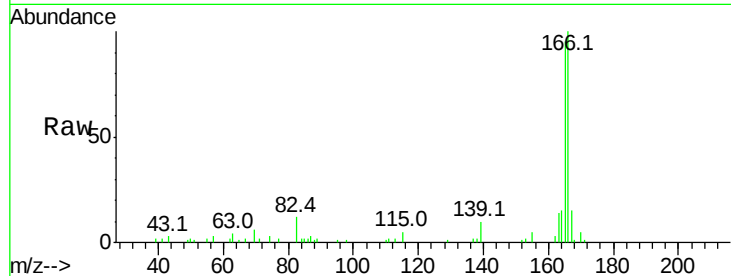
Ion 65.00 (64.70 to 65.70): BF0





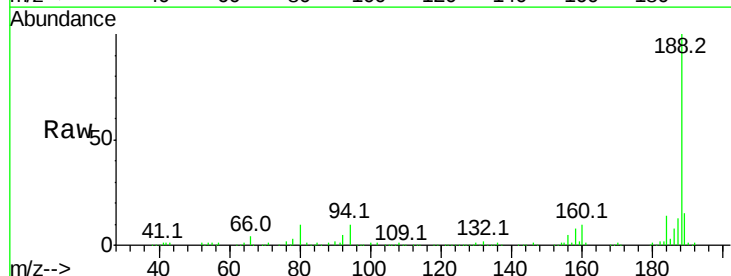
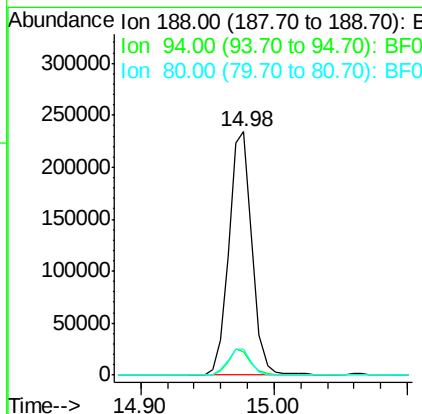
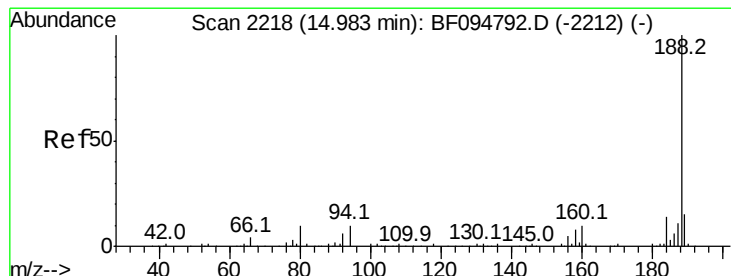
#57
 Fluorene
 Concen: 2.29 ng
 RT: 13.47 min Scan# 1961
 Delta R.T. -0.01 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

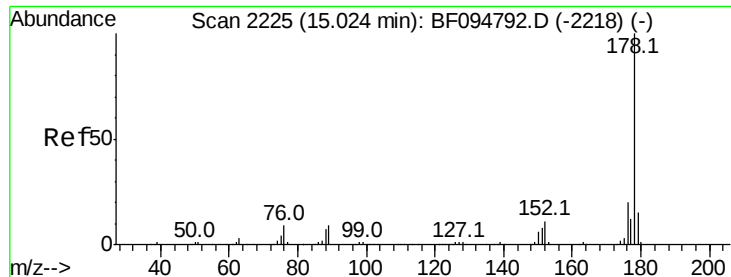
Tot Ion	Ratio	Lower	Upper
166	100		
165	94.9	78.8	118.2
167	14.6	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.98 min Scan# 2217
 Delta R.T. -0.01 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

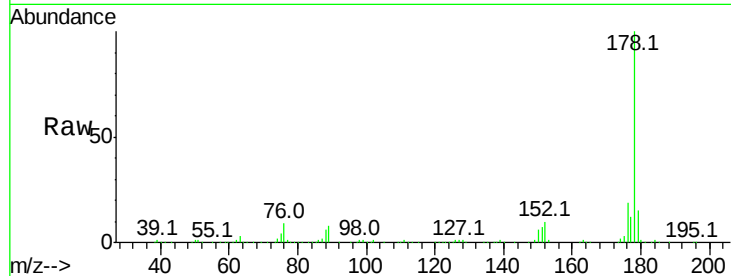
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	9.4	14.2
80	10.5	10.2	15.2



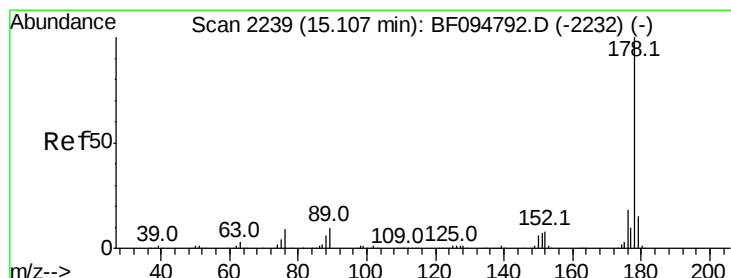
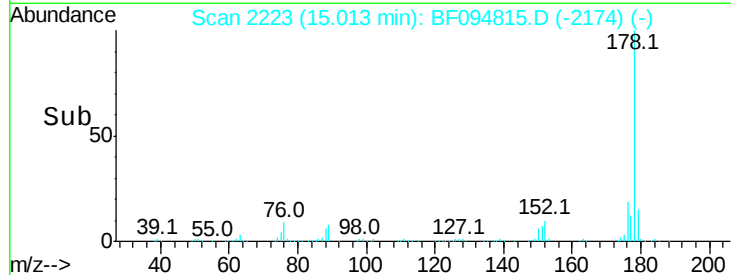
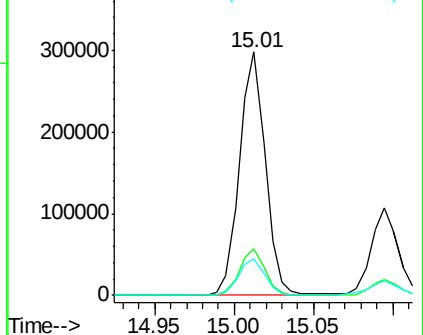


#70
Phenanthrene
Concen: 20.76 ng
RT: 15.01 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	16.2	24.4
179	15.0	12.6	19.0

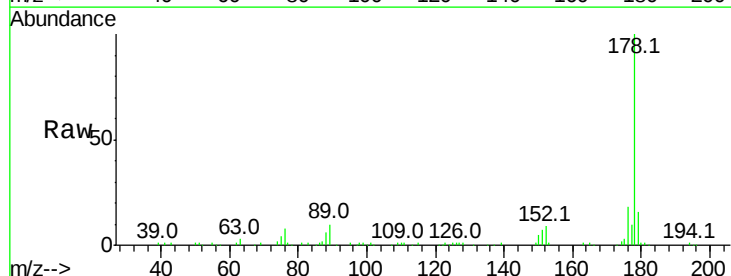


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

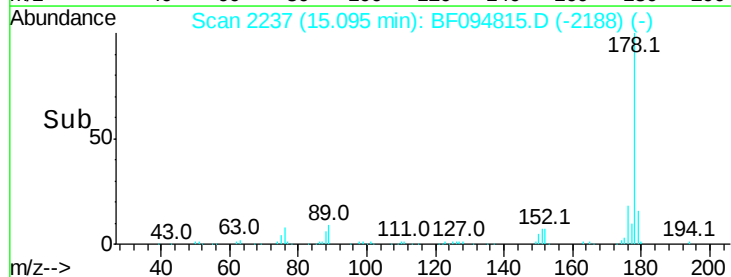
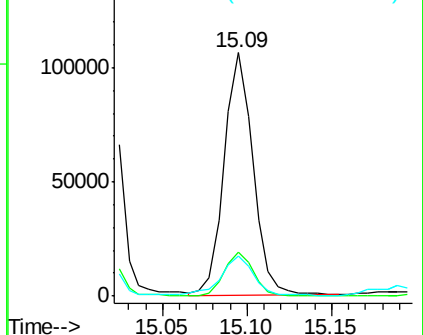


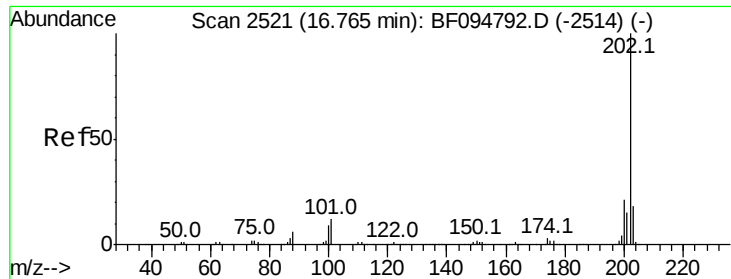
#71
Anthracene
Concen: 7.58 ng
RT: 15.09 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.8	23.8
179	16.3	12.7	19.1



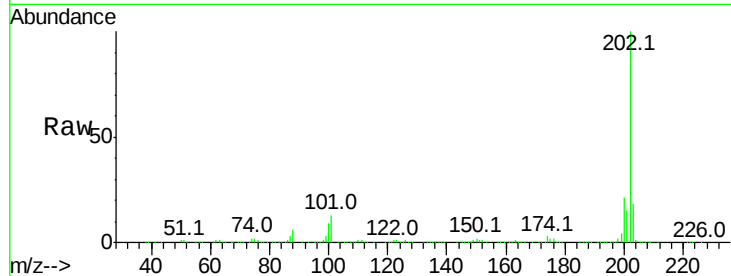
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



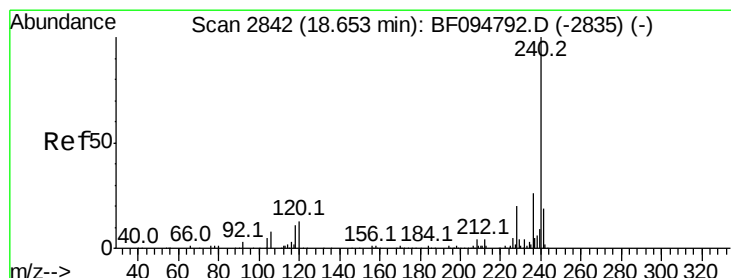
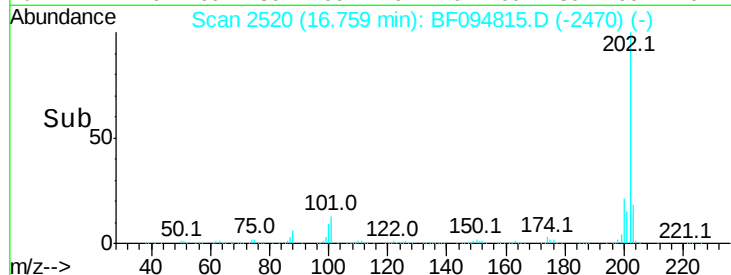
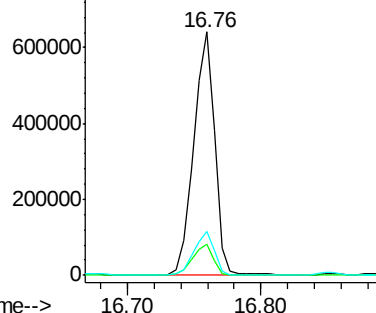


#74
 Fluoranthene
 Concen: 43.07 ng
 RT: 16.76 min Scan# 2520
 Delta R.T. -0.01 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

Tot Ion:	202	Resp:	720266
Ion	Ratio	Lower	Upper
202	100		
101	12.7	0.0	33.2
203	18.0	0.0	38.1

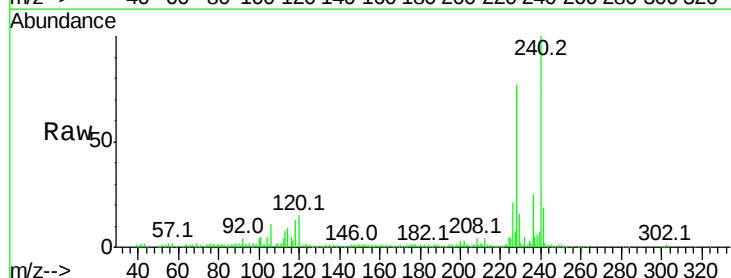


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

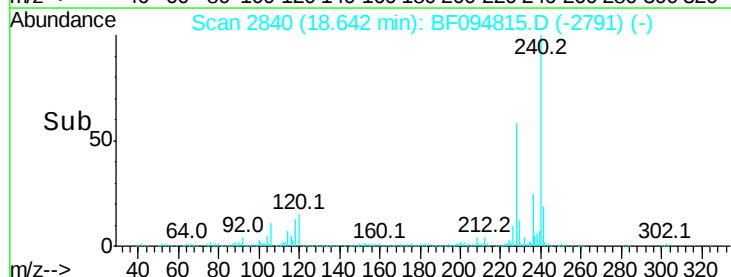
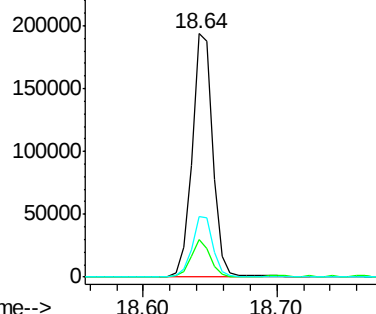


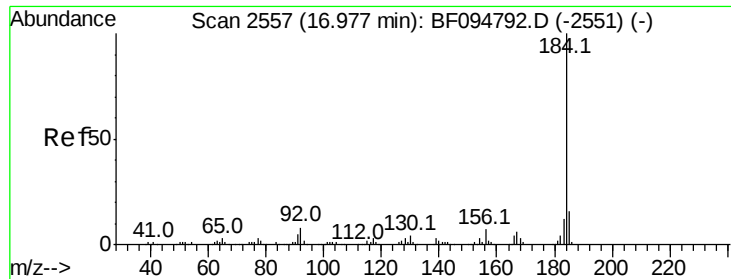
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.64 min Scan# 2840
 Delta R.T. -0.01 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

Tgt Ion:	240	Resp:	211799
Ion	Ratio	Lower	Upper
240	100		
120	15.4	5.8	8.8#
236	24.8	20.5	30.7



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.63 ng

RT: 16.98 min Scan# 2558

Delta R.T. 0.01 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

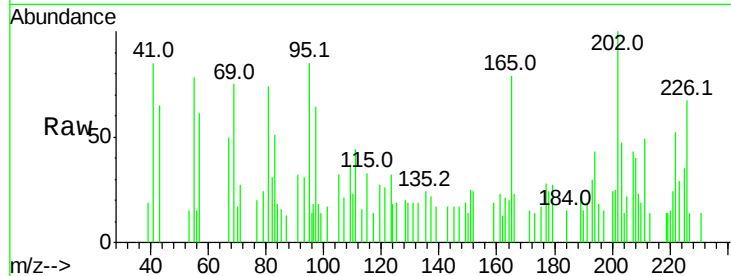
Tot Ion:184 Resp: 243

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

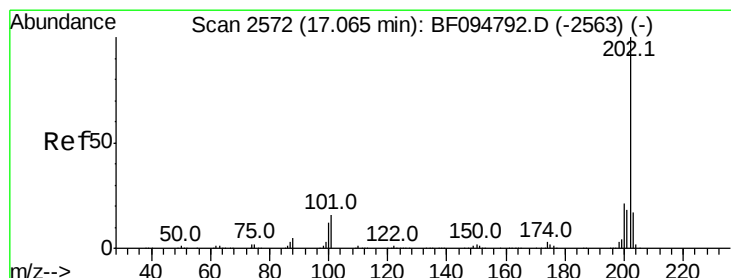
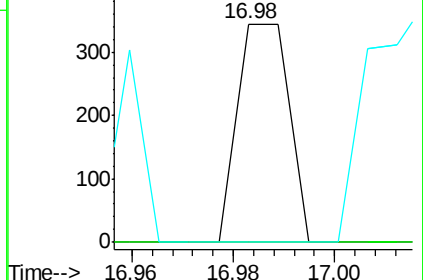
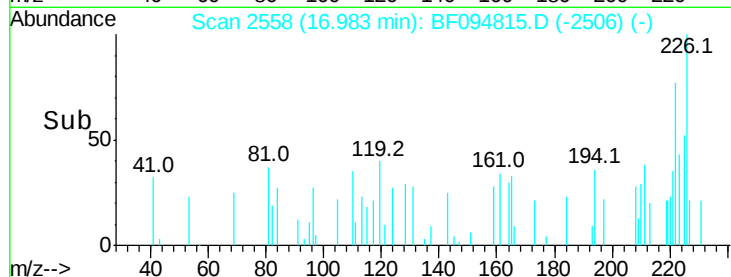
183 0.0 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 43.52 ng

RT: 17.06 min Scan# 2571

Delta R.T. -0.01 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

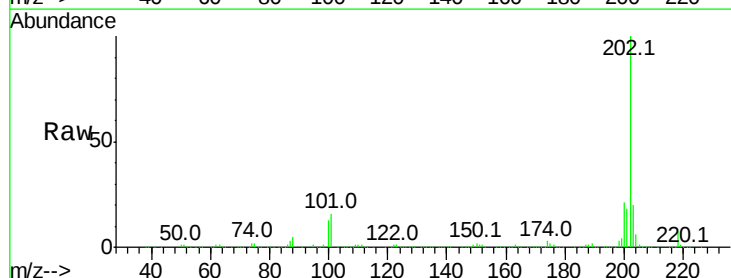
Tgt Ion:202 Resp: 689318

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

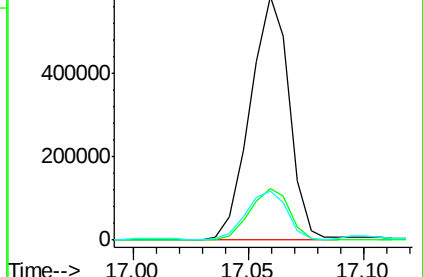
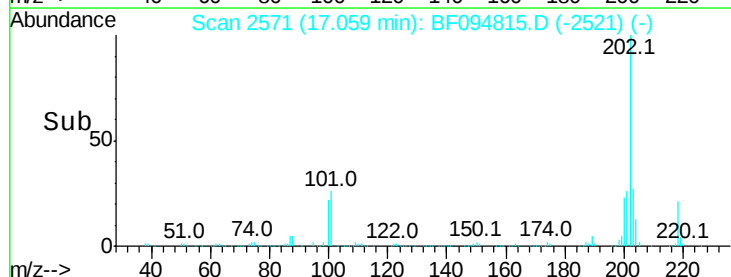
203 20.4 14.4 21.6

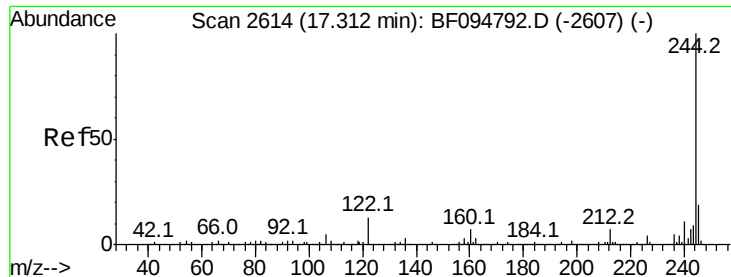


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

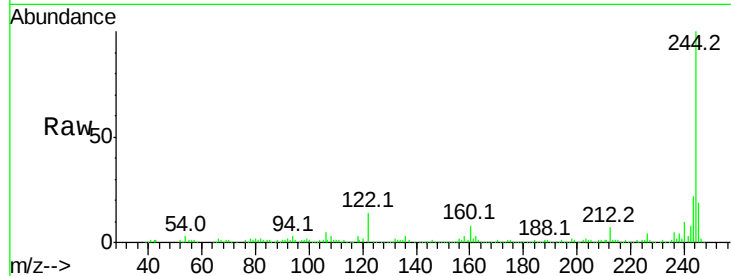
Ion 203.00 (202.70 to 203.70): E



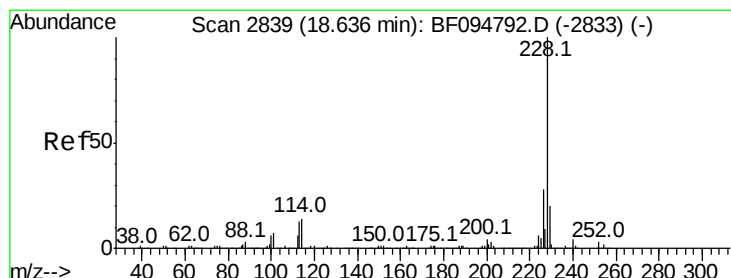
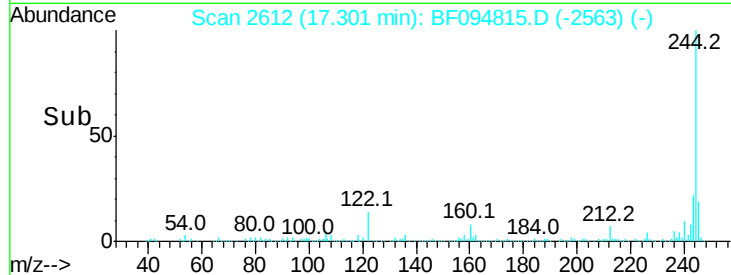
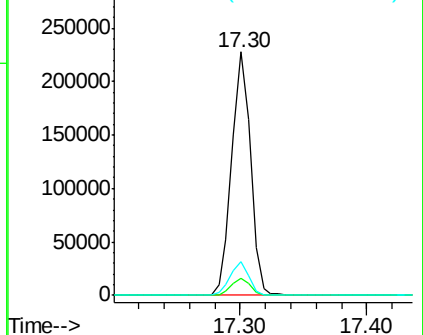


#78
 Terphenyl-d14
 Concen: 24.30 ng
 RT: 17.30 min Scan# 2612
 Delta R.T. -0.01 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

Tot Ion:244 Resp: 233691
 Ion Ratio Lower Upper
 244 100
 212 7.0 6.0 9.0
 122 13.9 10.3 15.5

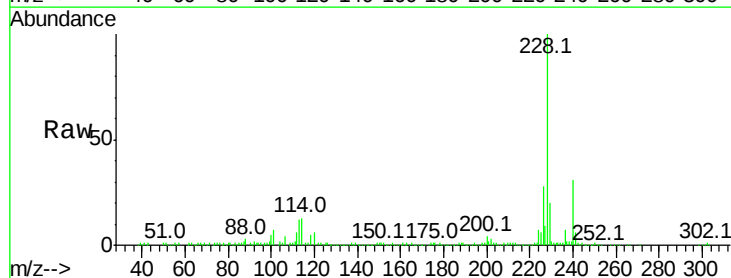


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

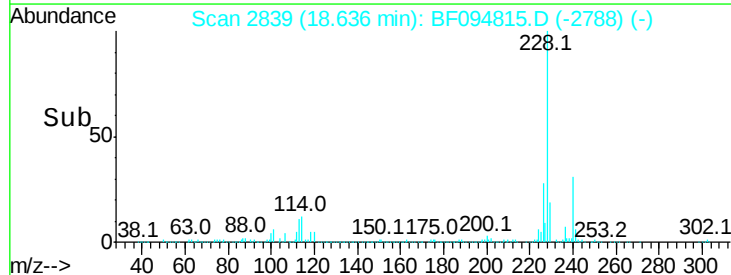
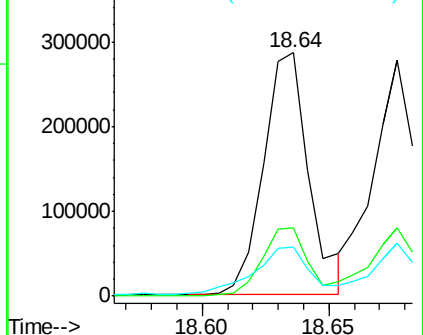


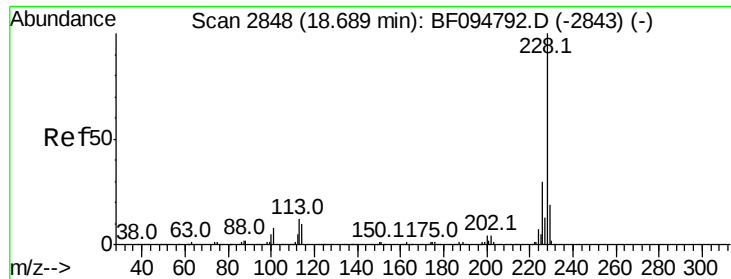
#80
 Benzo(a)anthracene
 Concen: 29.21 ng
 RT: 18.64 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: BF094815.D
 Acq: 3 May 2017 2:48

Tgt Ion:228 Resp: 360111
 Ion Ratio Lower Upper
 228 100
 226 28.0 22.6 33.8
 229 20.3 16.3 24.5



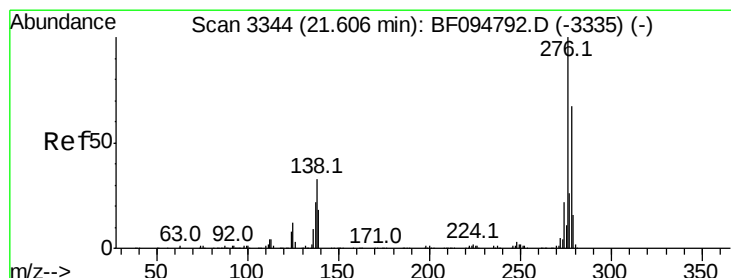
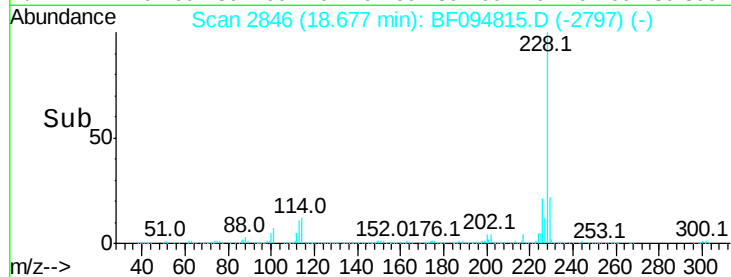
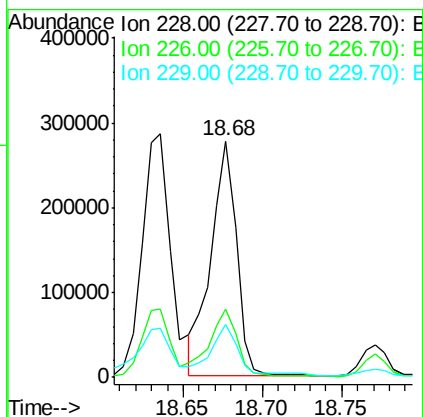
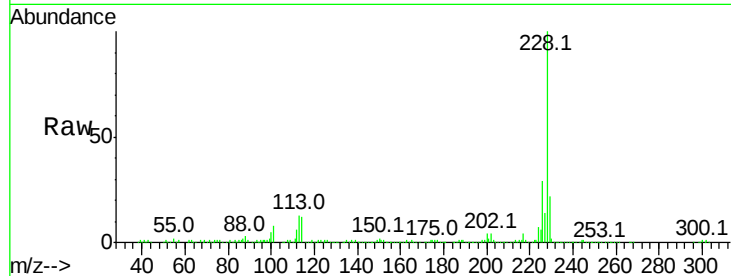
Abundance Ion 228.00 (227.70 to 228.70): E
 Ion 226.00 (225.70 to 226.70): E
 Ion 229.00 (228.70 to 229.70): E





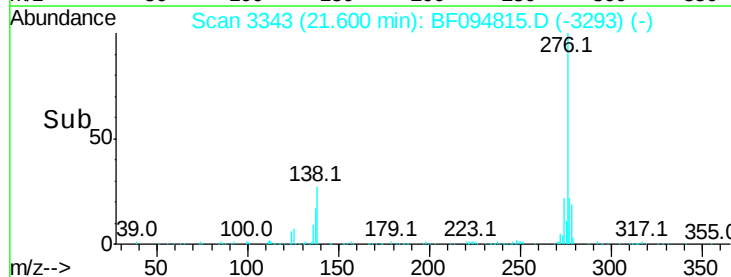
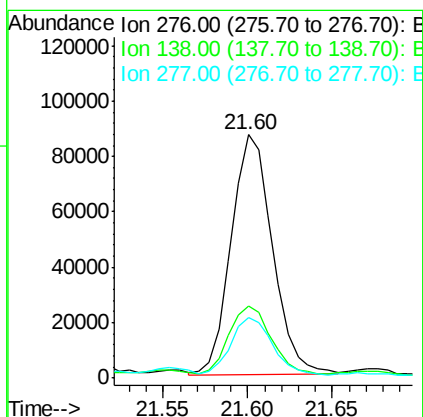
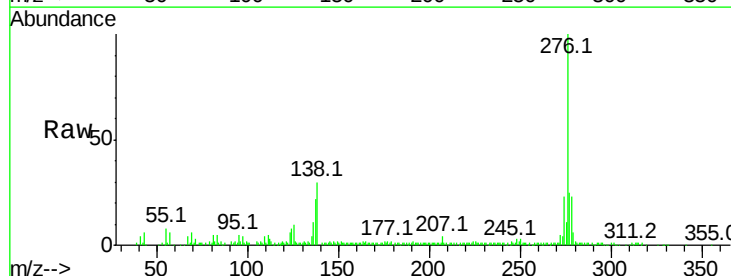
#82
Chrysene
Concen: 26.49 ng
RT: 18.68 min Scan# 2846
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

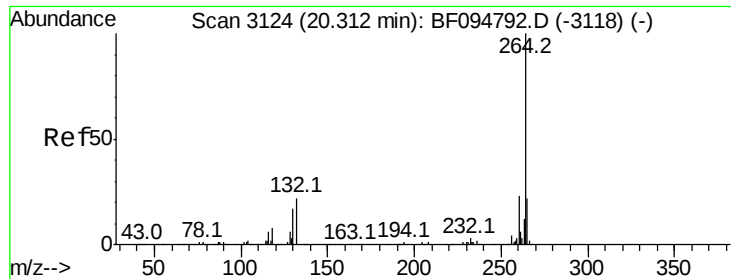
Tot Ion:228	Resp:	315759
Ion Ratio	Lower	Upper
228 100		
226 29.1	24.9	37.3
229 22.3	15.8	23.6



#85
Indeno(1,2,3-cd)pyrene
Concen: 15.22 ng
RT: 21.60 min Scan# 3343
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

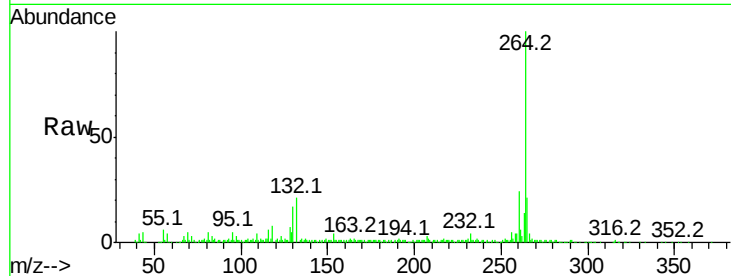
Tgt Ion:276	Resp:	147326
Ion Ratio	Lower	Upper
276 100		
138 28.7	27.8	41.6
277 24.2	20.2	30.4



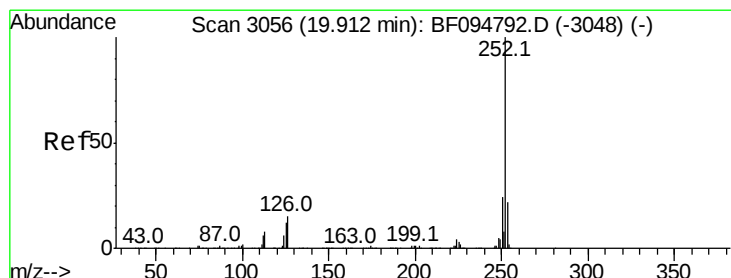
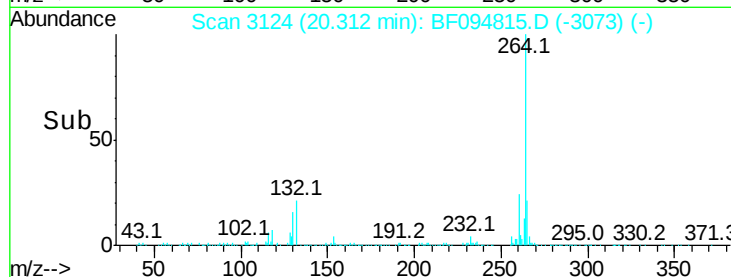
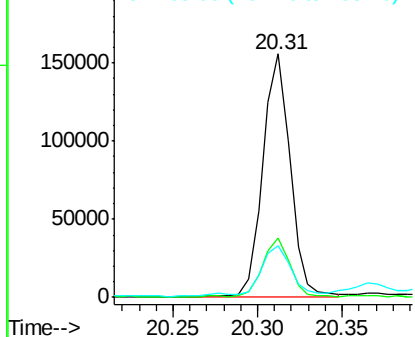


#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.00 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	21.3	17.2	25.8

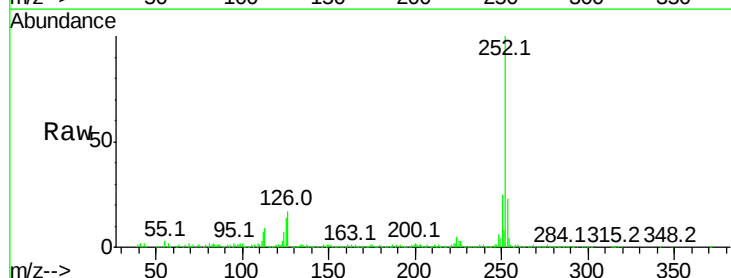


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

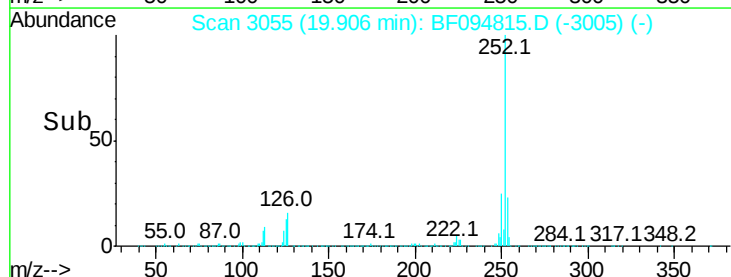
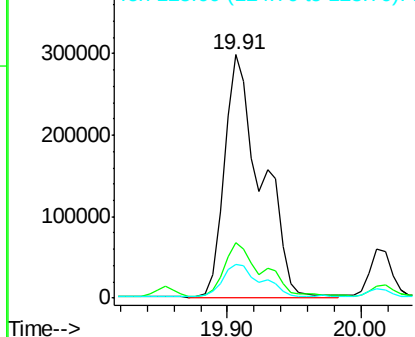


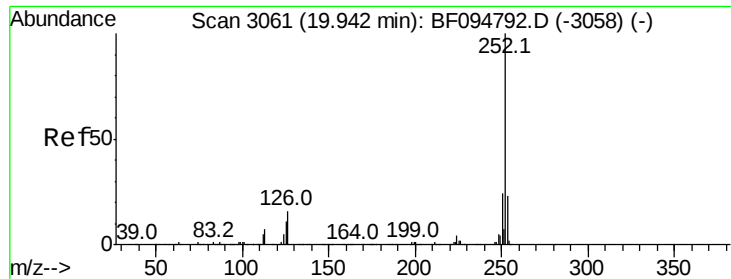
#87
Benzo(b)fluoranthene
Concen: 53.13 ng
RT: 19.91 min Scan# 3055
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	14.0	9.8	14.8



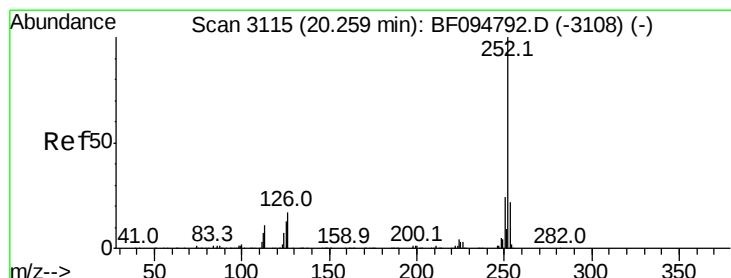
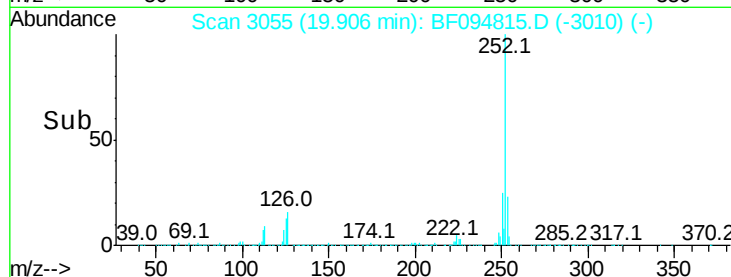
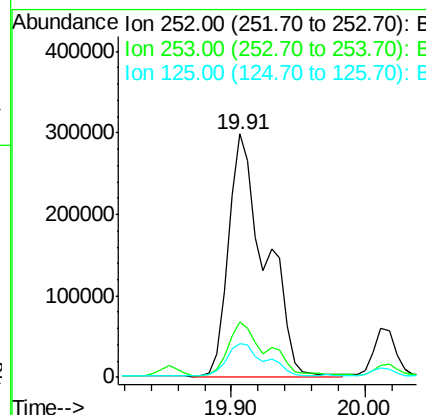
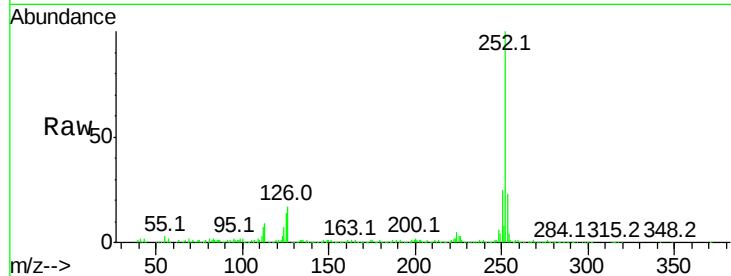
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





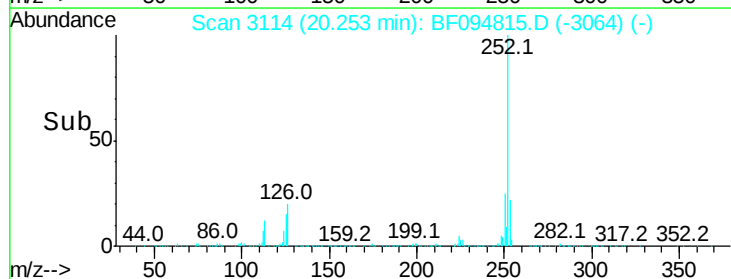
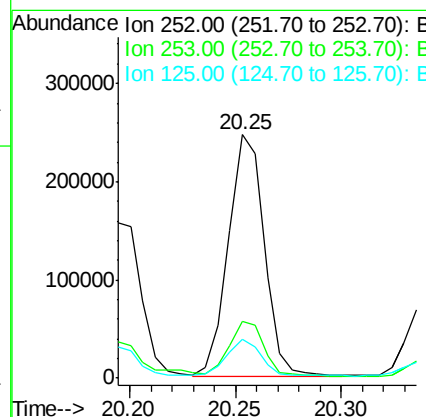
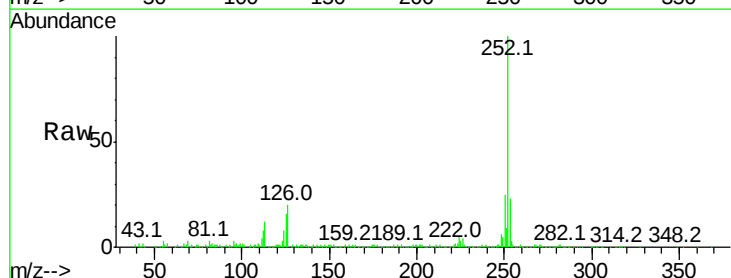
#88
Benzo(k)fluoranthene
Concen: 55.08 ng
RT: 19.91 min Scan# 3055
Delta R.T. -0.04 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

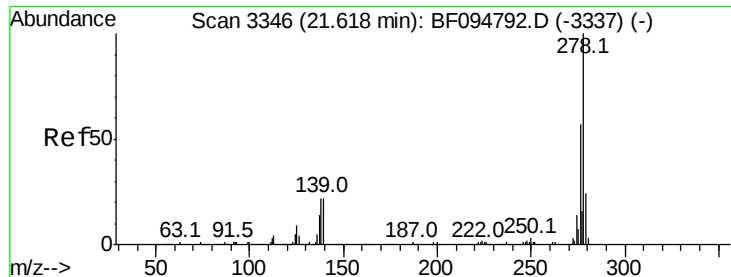
Tot Ion:252	Resp:	571215
Ion Ratio	Lower	Upper
252	100	
253	22.9	18.4 27.6
125	14.0	13.1 19.7



#89
Benzo(a)pyrene
Concen: 29.35 ng
RT: 20.25 min Scan# 3114
Delta R.T. -0.01 min
Lab File: BF094815.D
Acq: 3 May 2017 2:48

Tgt Ion:252	Resp:	291147
Ion Ratio	Lower	Upper
252	100	
253	23.3	17.5 26.3
125	15.9	11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 4.73 ng

RT: 21.61 min Scan# 3344

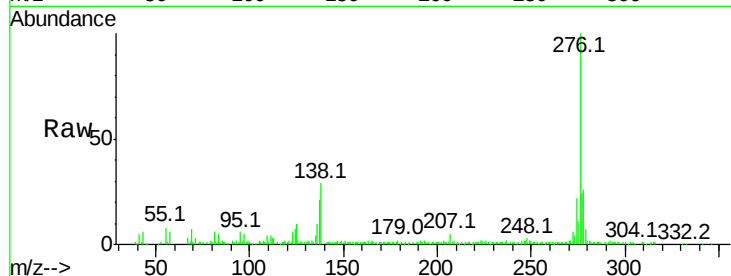
Delta R.T. -0.01 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

Tot Ion:278 Resp: 38741

Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	26.4	19.3	28.9

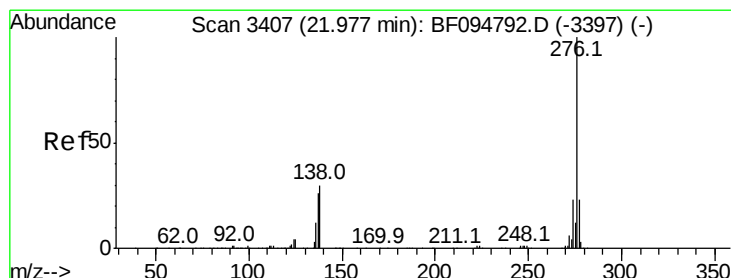
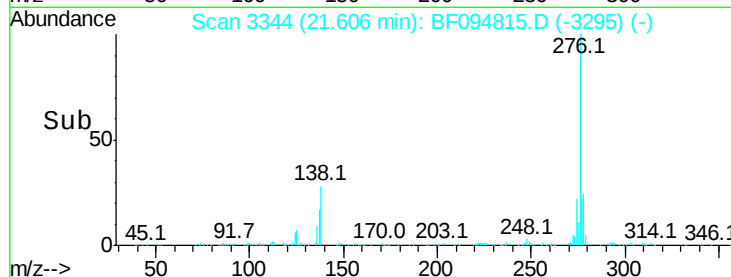
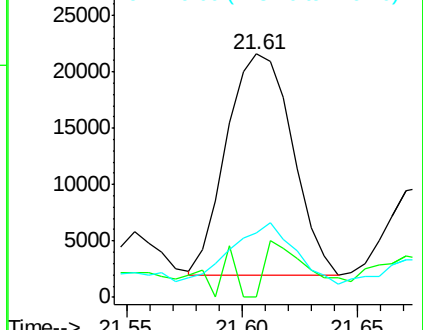


Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 17.39 ng

RT: 21.98 min Scan# 3407

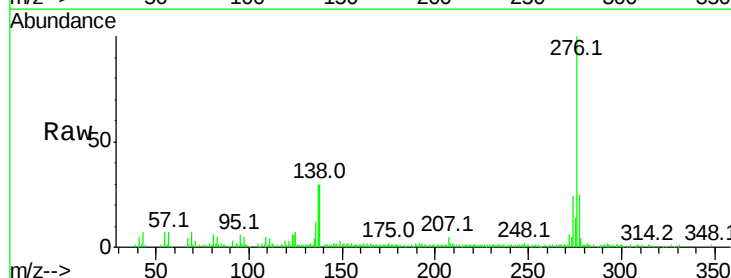
Delta R.T. 0.00 min

Lab File: BF094815.D

Acq: 3 May 2017 2:48

Tgt Ion:276 Resp: 139789

Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.6	28.0
138	30.1	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

