

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041817\
 Data File : BF094510.D
 Acq On : 19 Apr 2017 2:14
 Operator : SJ/MA
 Sample : I2708-10 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 19 03:04:39 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 17 14:59:23 2017
 Response via : Initial Calibration

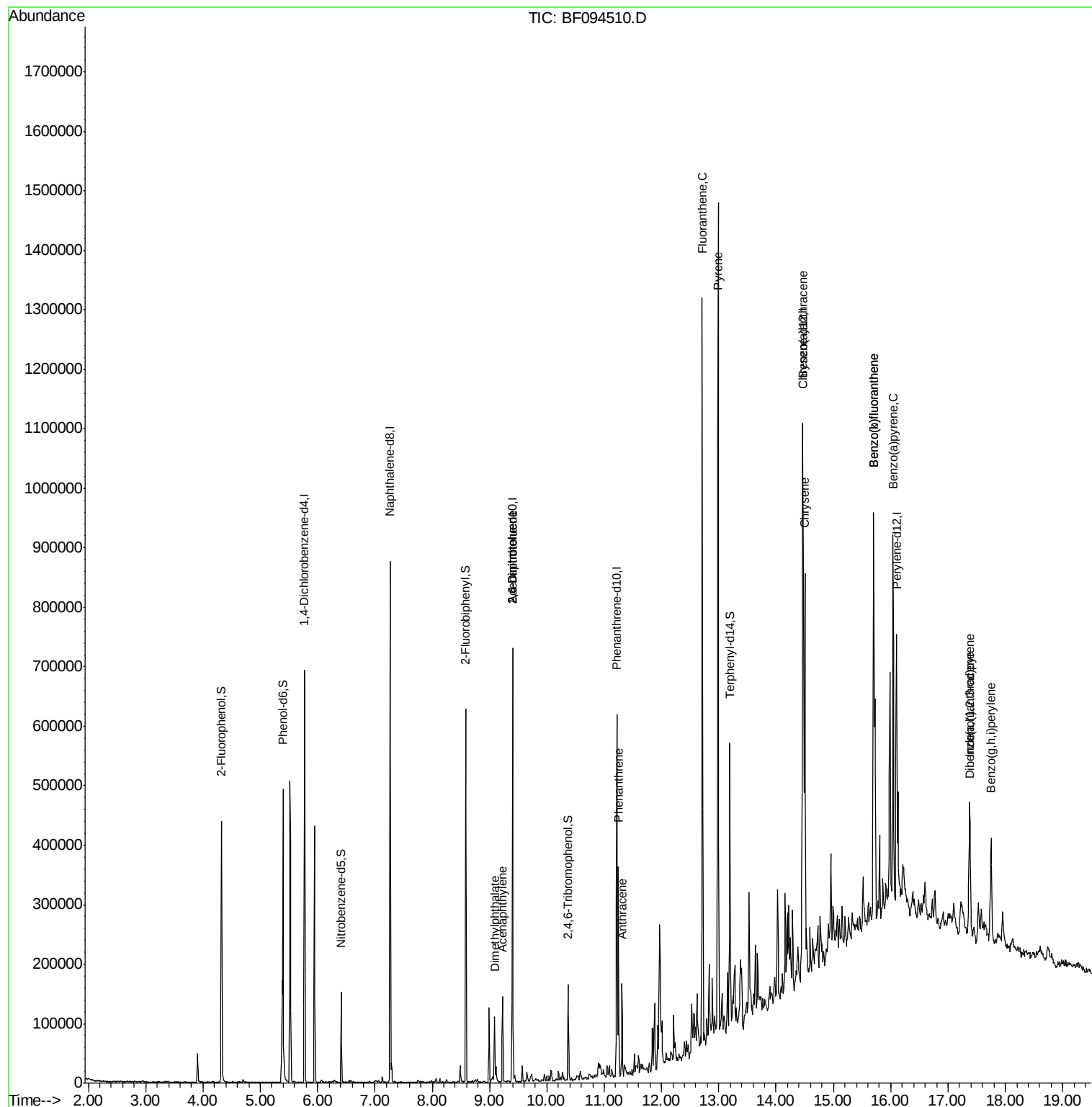
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.77	152	105095	20.00	ng	0.00
21) Naphthalene-d8	7.27	136	398799	20.00	ng	0.00
38) Acenaphthene-d10	9.40	164	145038	20.00	ng	0.00
63) Phenanthrene-d10	11.22	188	255082	20.00	ng	0.00
75) Chrysene-d12	14.48	240	238131	20.00	ng	0.00
86) Perylene-d12	16.10	264	182493	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	4.33	112	138029	21.79	ng	0.02
7) Phenol-d6	5.40	99	173267	23.20	ng	0.00
23) Nitrobenzene-d5	6.41	82	45389	7.03	ng	0.00
41) 2,4,6-Tribromophenol	10.37	330	16128	14.22	ng	0.00
44) 2-Fluorobiphenyl	8.58	172	195153	19.80	ng	0.00
78) Terphenyl-d14	13.20	244	143864	16.15	ng	0.00
Target Compounds						Qvalue
48) Acenaphthylene	9.22	152	67378	4.59	ng	97
49) Dimethylphthalate	9.09	163	49559	4.59	ng	96
50) 2,6-Dinitrotoluene	9.40	165	18948	7.81	ng	# 34
56) 2,4-Dinitrotoluene	9.40	165	18954	6.37	ng	# 33
70) Phenanthrene	11.25	178	138692	9.66	ng	99
71) Anthracene	11.31	178	61615	4.15	ng	98
74) Fluoranthene	12.72	202	589904	39.62	ng	98
77) Pyrene	12.99	202	627970	37.75	ng	98
80) Benzo(a)anthracene	14.47	228	328605	23.74	ng	99
82) Chrysene	14.51	228	286789	22.67	ng	96
85) Indeno(1,2,3-cd)pyrene	17.38	276	138787	11.53	ng	92
87) Benzo(b)fluoranthene	15.70	252	470491	42.14	ng	# 97
88) Benzo(k)fluoranthene	15.70	252	470491	44.53	ng	98
89) Benzo(a)pyrene	16.04	252	259359	24.97	ng	94
90) Dibenzo(a,h)anthracene	17.39	278	29799	3.46	ng	# 85
91) Benzo(g,h,i)perylene	17.75	276	123709	14.09	ng	97

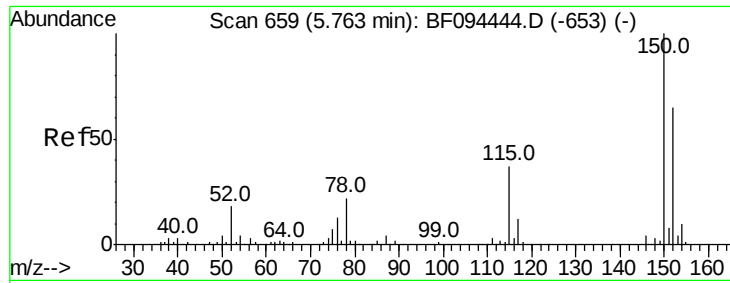
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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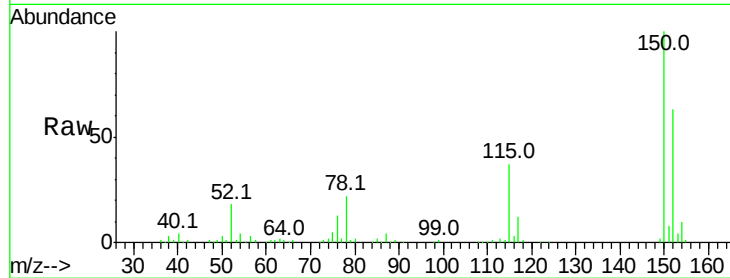


#1

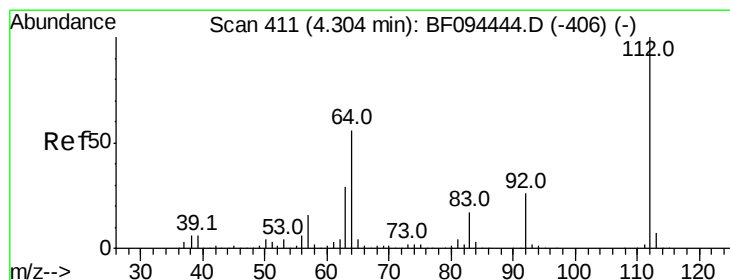
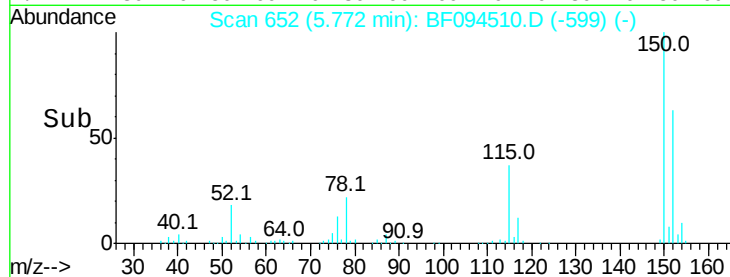
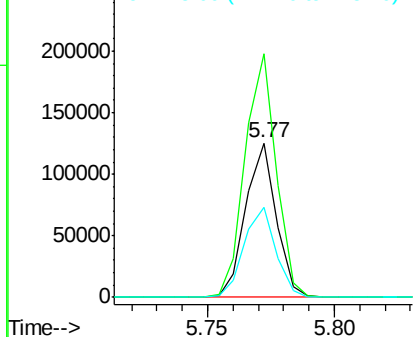
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.77 min Scan# 652
Delta R.T. 0.01 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 105095
Ion Ratio Lower Upper
152 100
150 157.9 126.2 189.2
115 58.5 52.2 78.2



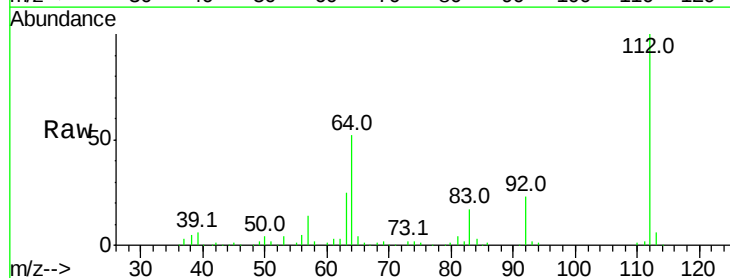
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



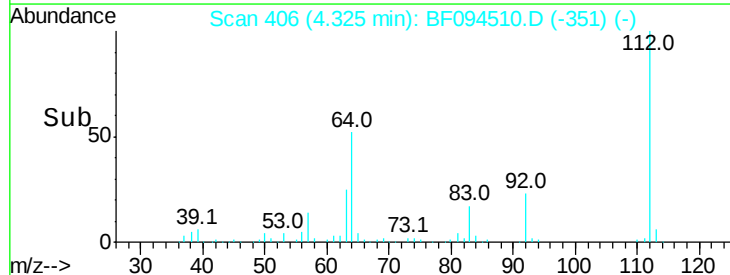
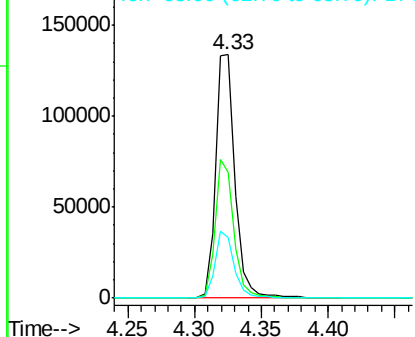
#5

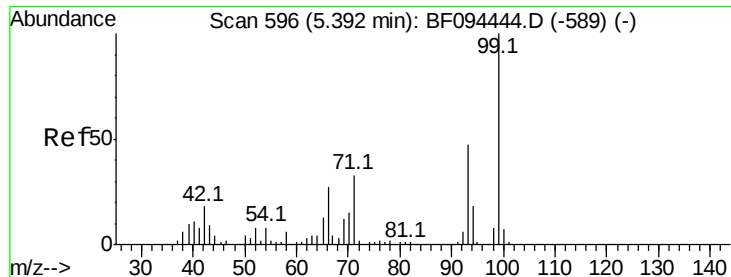
2-Fluorophenol
Concen: 21.79 ng
RT: 4.33 min Scan# 406
Delta R.T. 0.02 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Tgt Ion:112 Resp: 138029
Ion Ratio Lower Upper
112 100
64 51.9 46.0 69.0
63 24.7 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: 23.20 ng

RT: 5.40 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

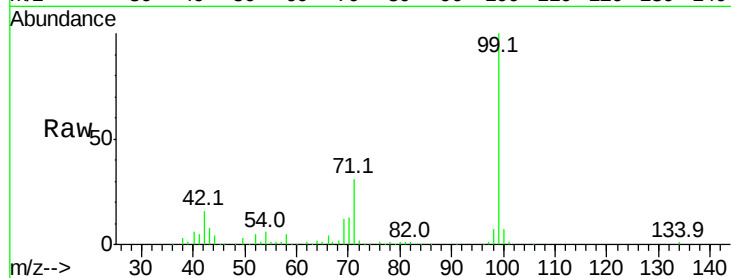
Instrument :

BNA_F

ClientSampled :

Tot Ion: 99 Resp: 173267

Ion	Ratio	Lower	Upper
99	100		
42	16.1	13.5	20.3
71	31.3	24.5	36.7

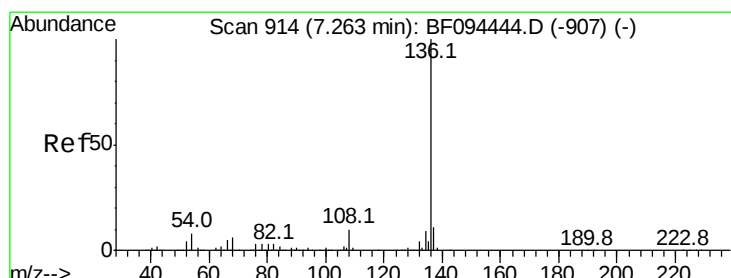
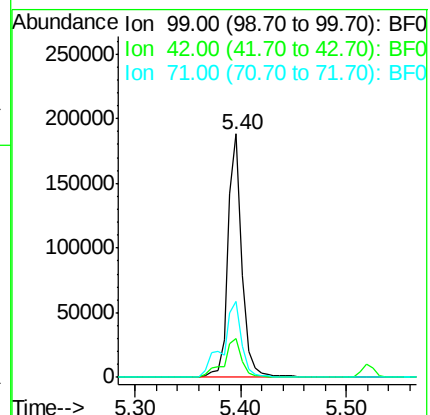
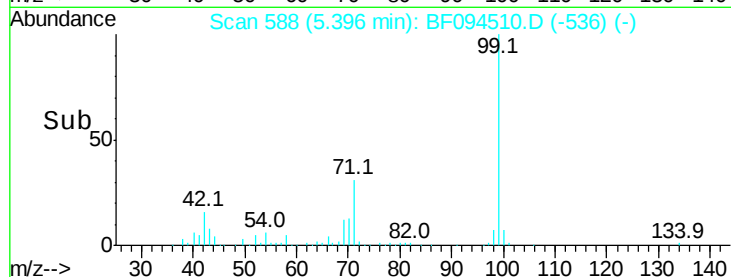


Abundance

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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.27 min Scan# 906

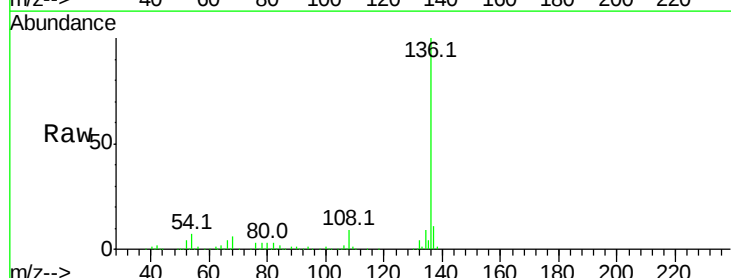
Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Tgt Ion: 136 Resp: 398799

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	6.9	4.9	7.3
68	5.7	4.1	6.1



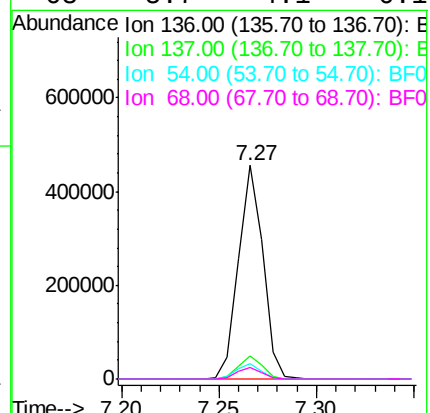
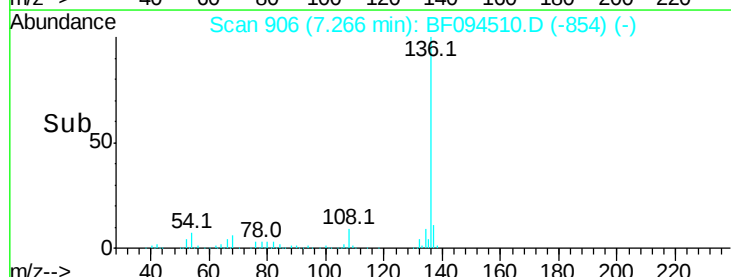
Abundance

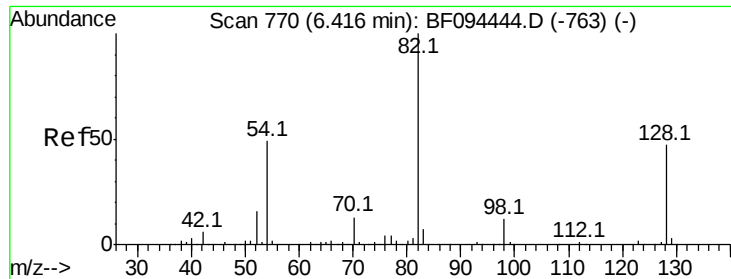
Ion 136.00 (135.70 to 136.70): E

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

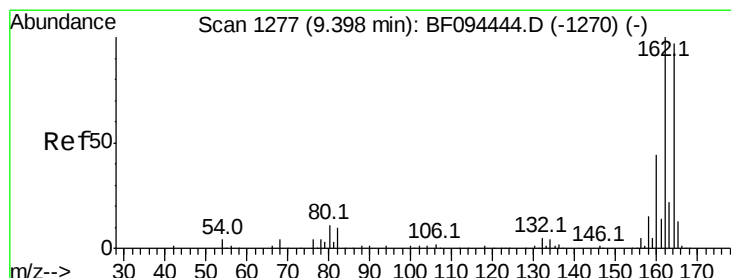
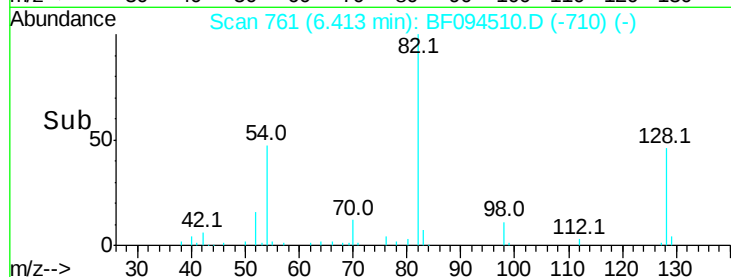
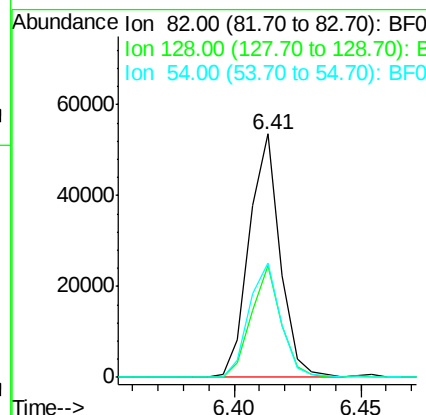
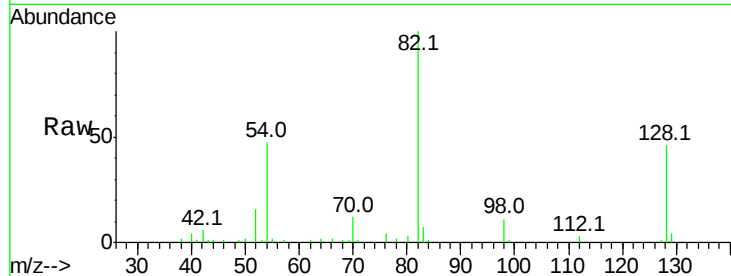




#23
 Nitrobenzene-d5
 Concen: 7.03 ng
 RT: 6.41 min Scan# 761
 Delta R.T. -0.00 min
 Lab File: BF094510.D
 Acq: 19 Apr 2017 2:14

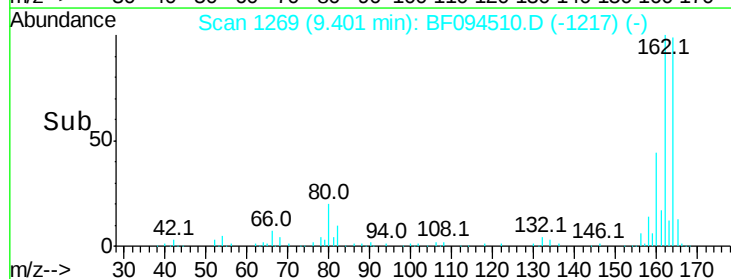
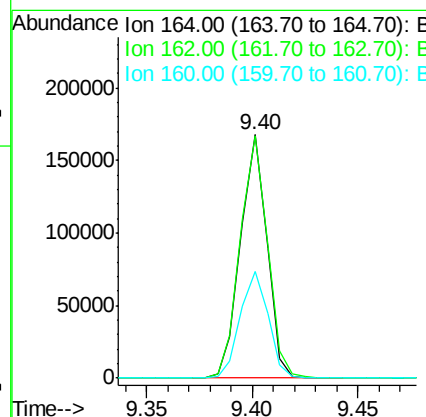
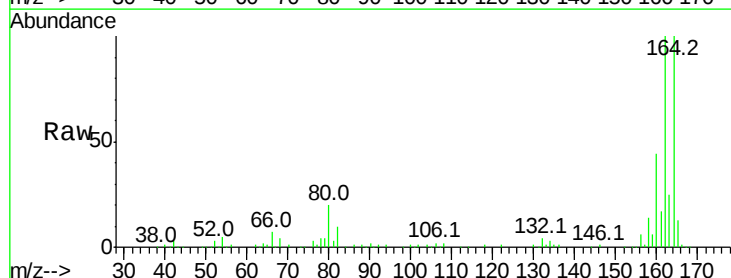
Instrument :
 BNA_F
 ClientSampleId :

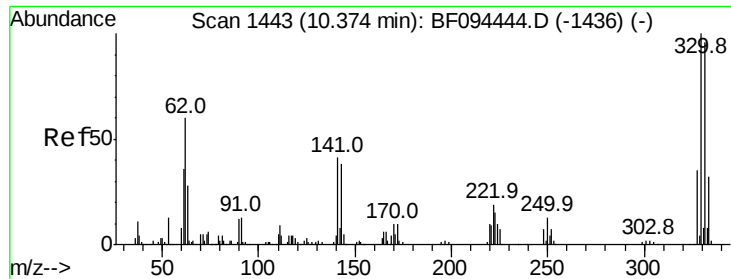
Tot Ion	82	Resp	45389
Ion Ratio	Lower	Upper	
82	100		
128	45.7	34.0	51.0
54	46.9	42.2	63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.40 min Scan# 1269
 Delta R.T. 0.00 min
 Lab File: BF094510.D
 Acq: 19 Apr 2017 2:14

Tgt Ion	164	Resp	145038
Ion Ratio	Lower	Upper	
164	100		
162	99.7	82.6	123.8
160	43.9	36.2	54.2

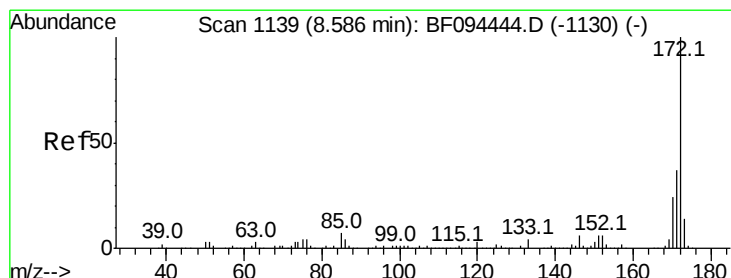
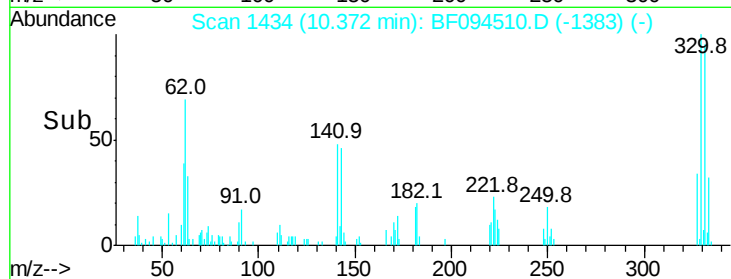
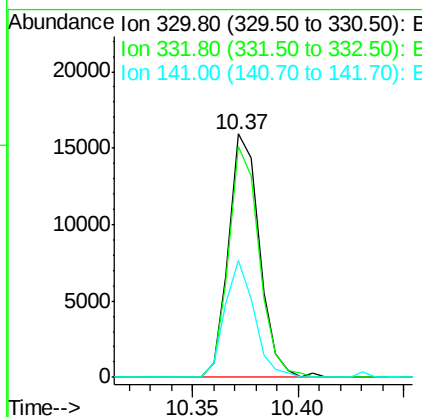
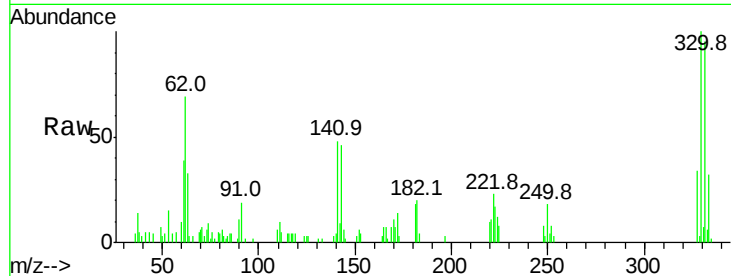




#41
 2,4,6-Tribromophenol
 Concen: 14.22 ng
 RT: 10.37 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: BF094510.D
 Acq: 19 Apr 2017 2:14

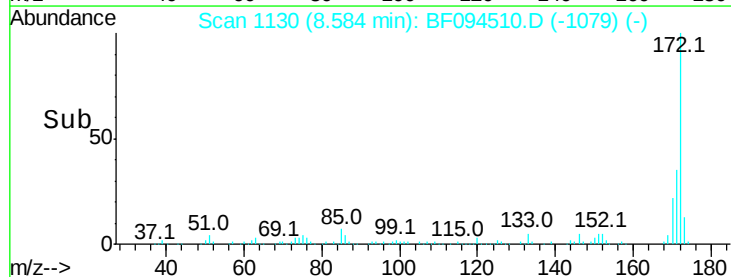
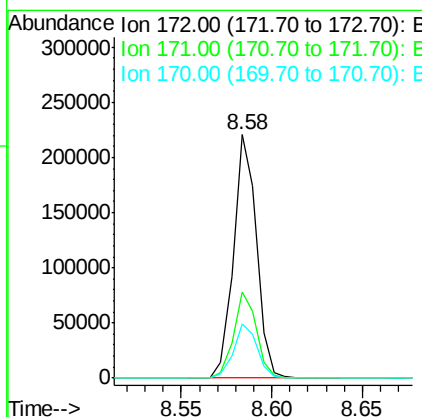
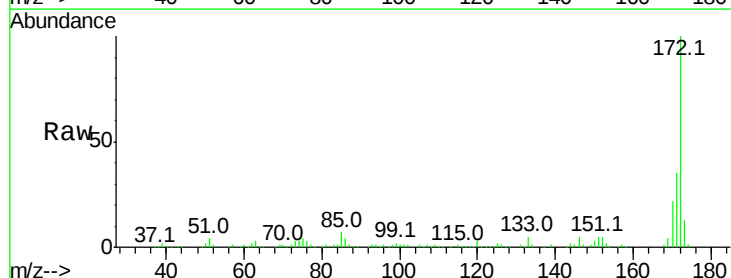
Instrument :
 BNA_F
 ClientSampled :

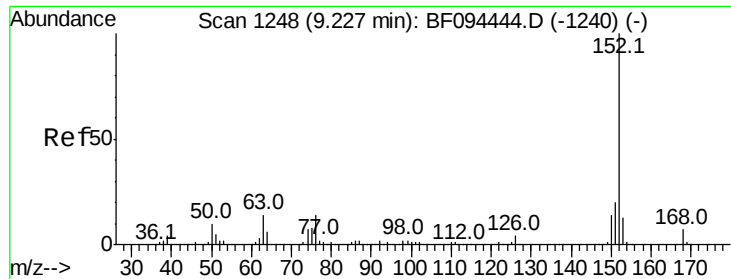
Tot Ion:330 Resp: 16128
 Ion Ratio Lower Upper
 330 100
 332 93.7 76.6 115.0
 141 45.7 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 19.80 ng
 RT: 8.58 min Scan# 1130
 Delta R.T. -0.00 min
 Lab File: BF094510.D
 Acq: 19 Apr 2017 2:14

Tgt Ion:172 Resp: 195153
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.6 44.4
 170 22.4 19.8 29.8





#48

Acenaphthylene

Concen: 4.59 ng

RT: 9.22 min Scan# 1239

Delta R.T. -0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA_F

ClientSampleId :

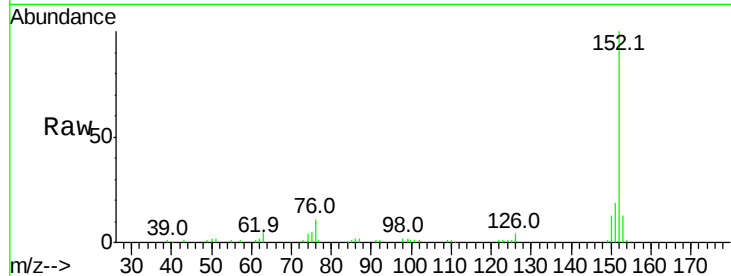
Tot Ion:152 Resp: 67378

Ion Ratio Lower Upper

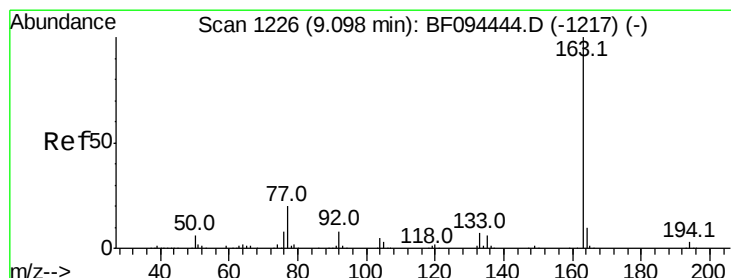
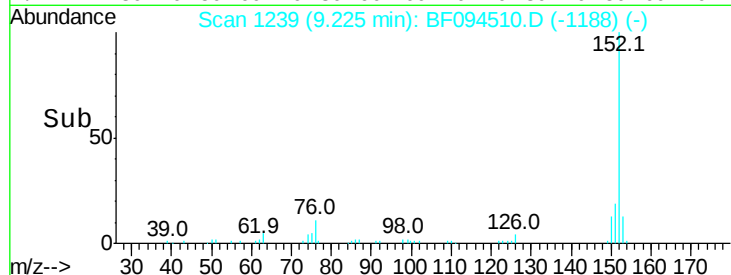
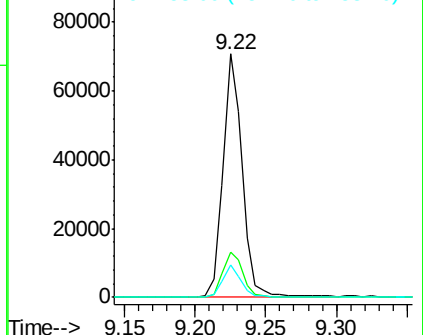
152 100

151 18.6 16.8 25.2

153 13.3 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.59 ng

RT: 9.09 min Scan# 1216

Delta R.T. -0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

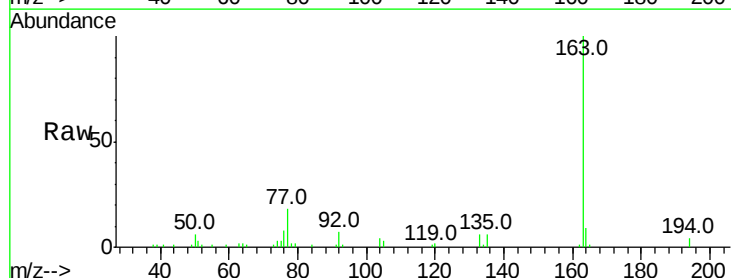
Tgt Ion:163 Resp: 49559

Ion Ratio Lower Upper

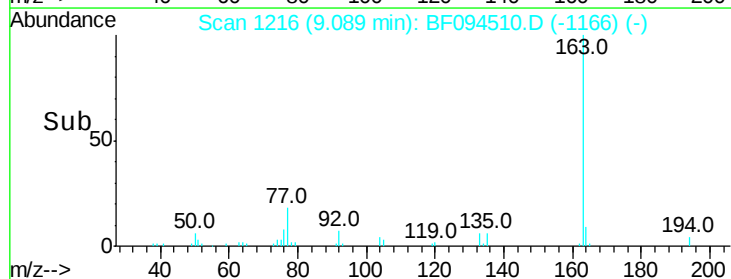
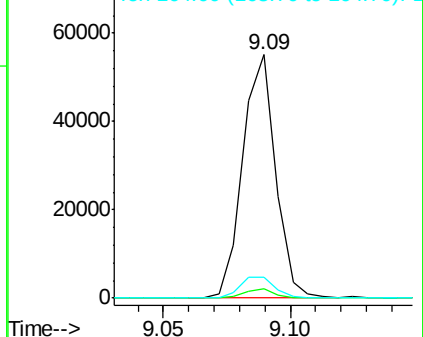
163 100

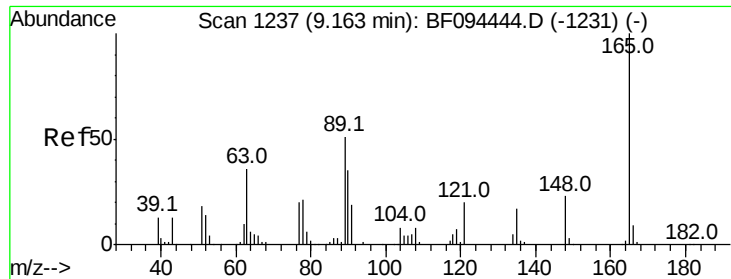
194 3.8 2.6 4.0

164 8.8 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

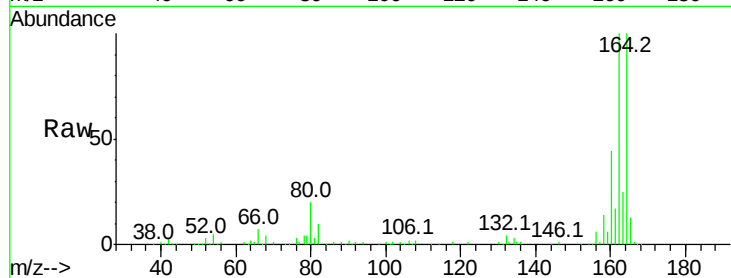




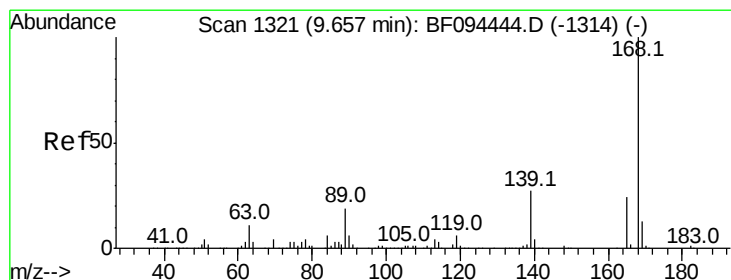
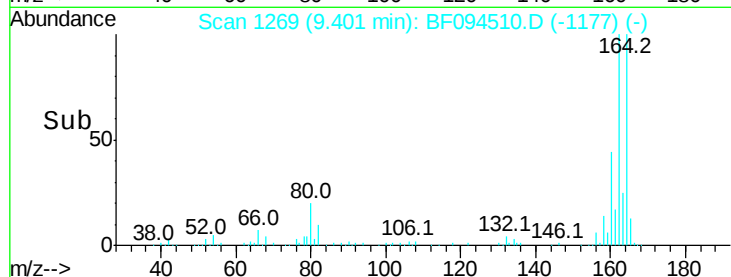
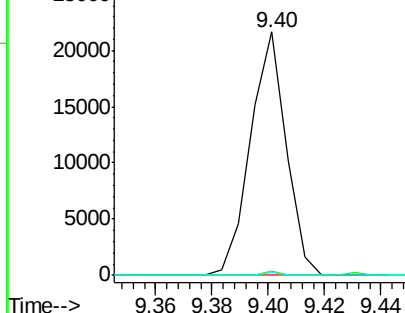
#50
 2,6-Dinitrotoluene
 Concen: 7.81 ng
 RT: 9.40 min Scan# 1269
 Delta R.T. 0.24 min
 Lab File: BF094510.D
 Acq: 19 Apr 2017 2:14

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.8	34.3	51.5#
89	1.5	37.1	55.7#



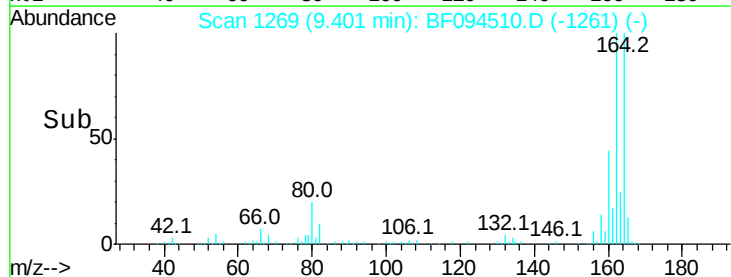
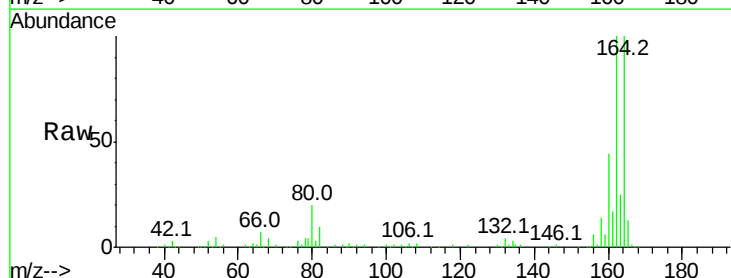
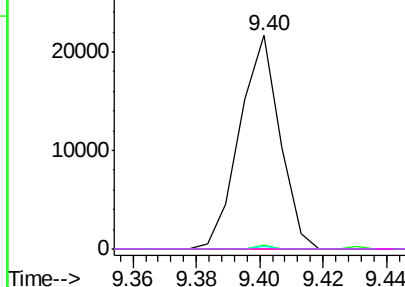
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

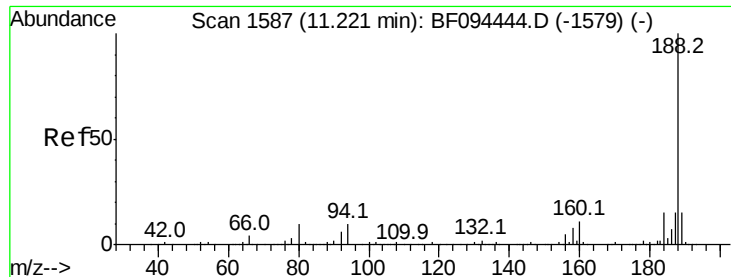


#56
 2,4-Dinitrotoluene
 Concen: 6.37 ng
 RT: 9.40 min Scan# 1269
 Delta R.T. -0.26 min
 Lab File: BF094510.D
 Acq: 19 Apr 2017 2:14

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.8	25.4	38.0#
89	1.5	46.4	69.6#
182	0.0	1.8	2.6#

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
 Ion 182.00 (181.70 to 182.70): E

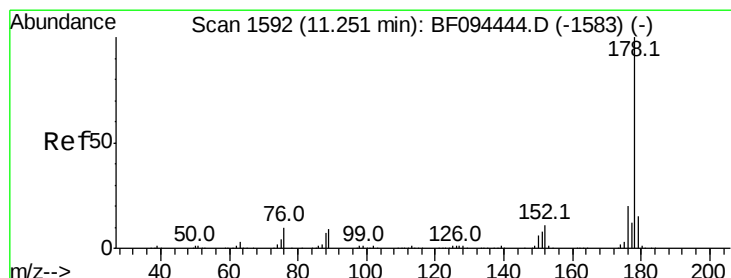
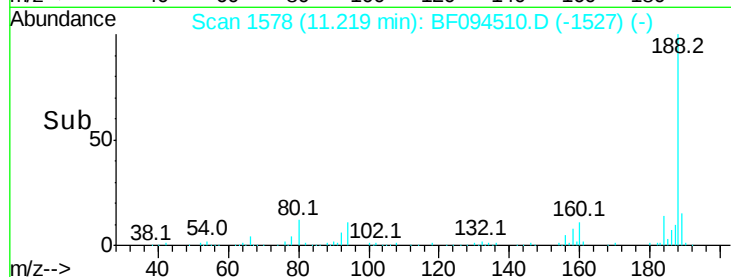
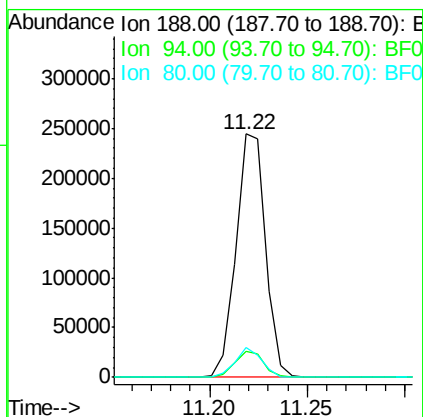
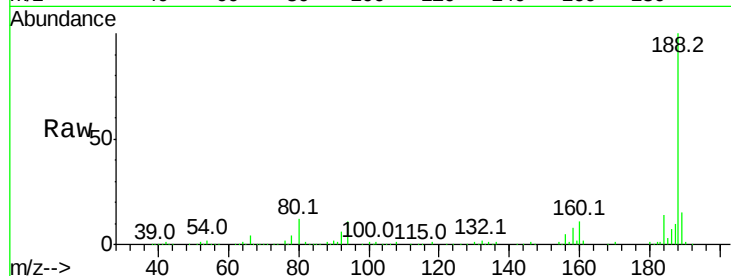




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.22 min Scan# 1578
Delta R.T. -0.00 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

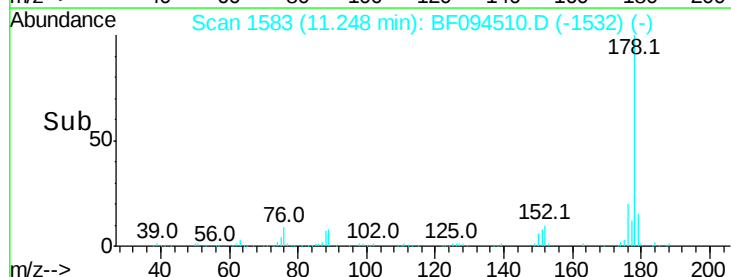
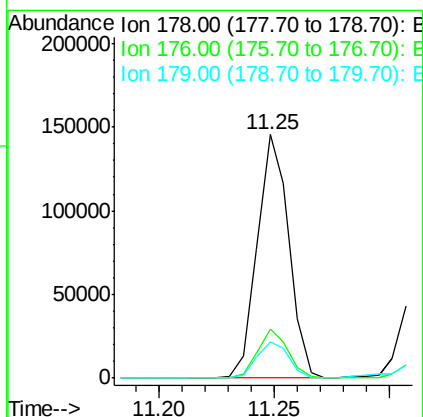
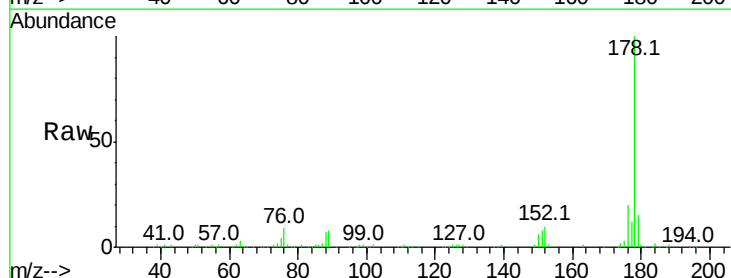
Instrument :
BNA_F
ClientSampleId :

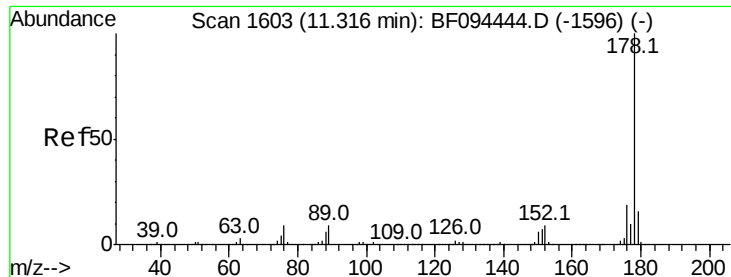
Tot Ion:188 Resp: 255082
Ion Ratio Lower Upper
188 100
94 10.6 9.4 14.2
80 12.0 10.2 15.2



#70
Phenanthrene
Concen: 9.66 ng
RT: 11.25 min Scan# 1583
Delta R.T. -0.00 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Tgt Ion:178 Resp: 138692
Ion Ratio Lower Upper
178 100
176 20.1 16.2 24.4
179 15.1 12.6 19.0





#71

Anthracene

Concen: 4.15 ng

RT: 11.31 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

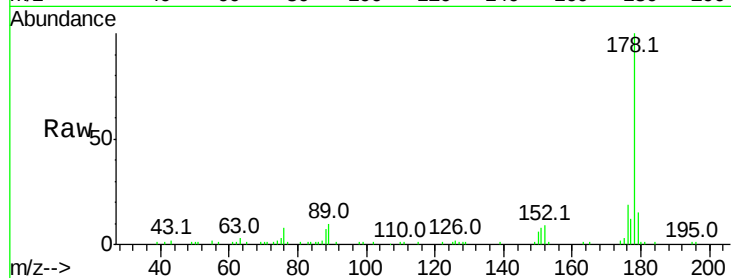
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 61615

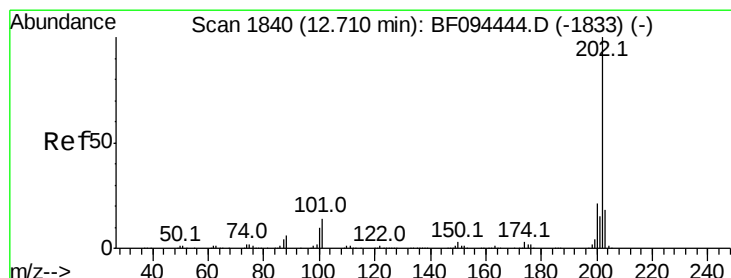
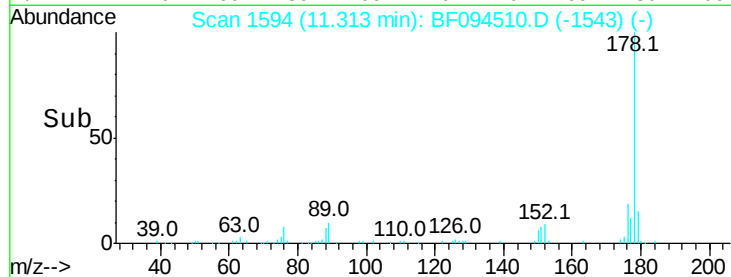
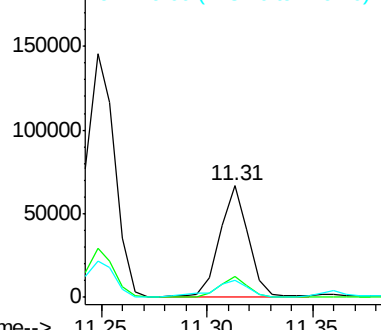
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	14.9	12.7	19.1



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: 39.62 ng

RT: 12.72 min Scan# 1833

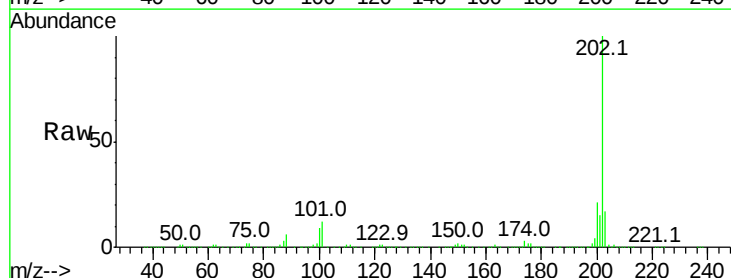
Delta R.T. 0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Tgt Ion:202 Resp: 589904

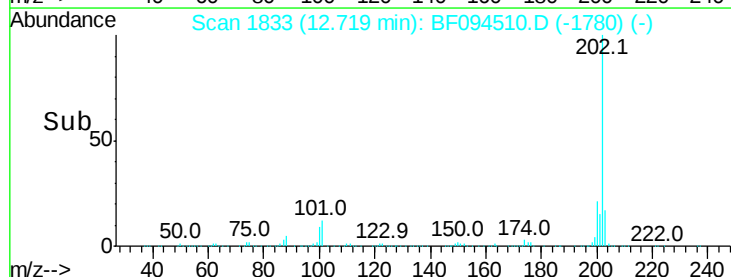
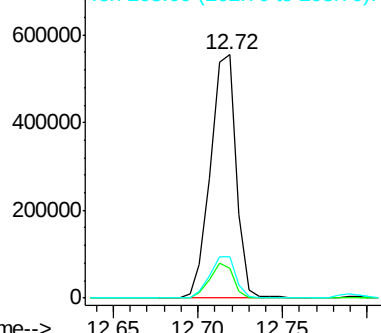
Ion	Ratio	Lower	Upper
202	100		
101	12.3	0.0	33.2
203	17.2	0.0	38.1

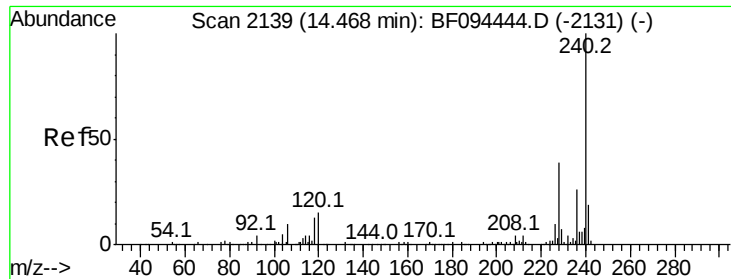


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.48 min Scan# 2132

Delta R.T. 0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA_F

ClientSampleId :

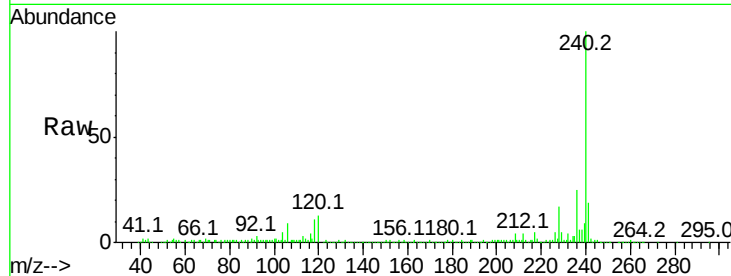
Tot Ion:240 Resp: 238131

Ion Ratio Lower Upper

240 100

120 12.8 5.8 8.8#

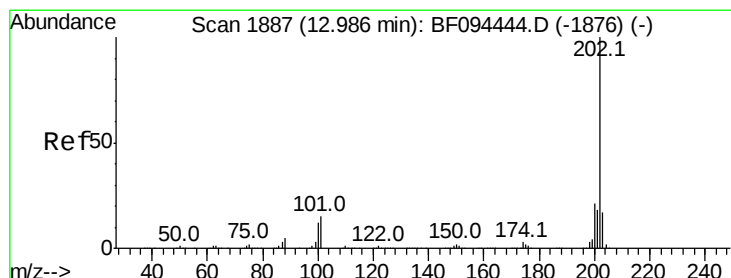
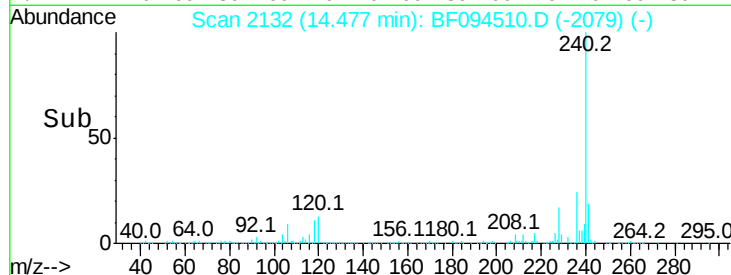
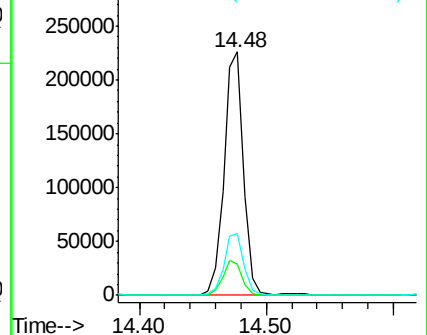
236 25.2 20.5 30.7



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



#77

Pyrene

Concen: 37.75 ng

RT: 12.99 min Scan# 1879

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

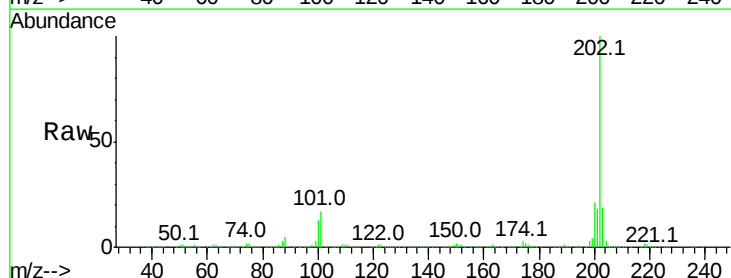
Tgt Ion:202 Resp: 627970

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

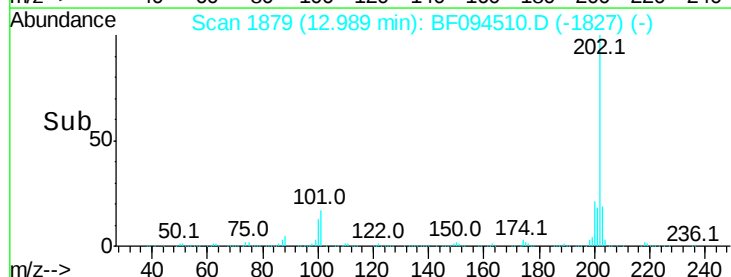
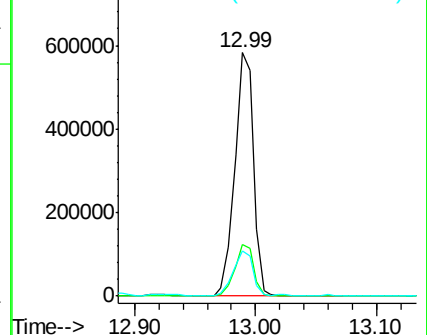
203 18.8 14.4 21.6

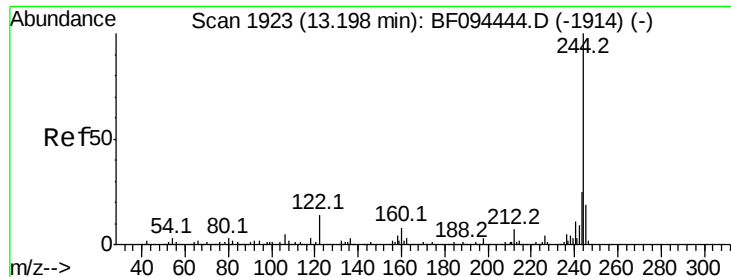


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 16.15 ng

RT: 13.20 min Scan# 1914

Delta R.T. -0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Instrument :

BNA_F

ClientSampleId :

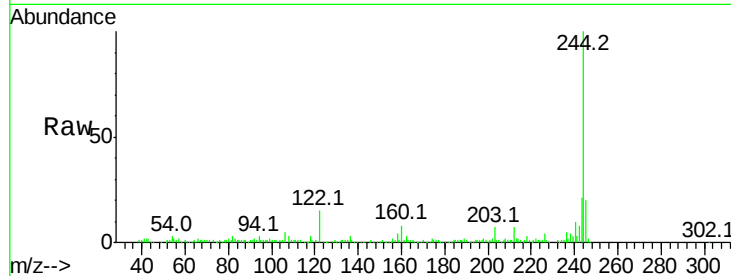
Tot Ion:244 Resp: 143864

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

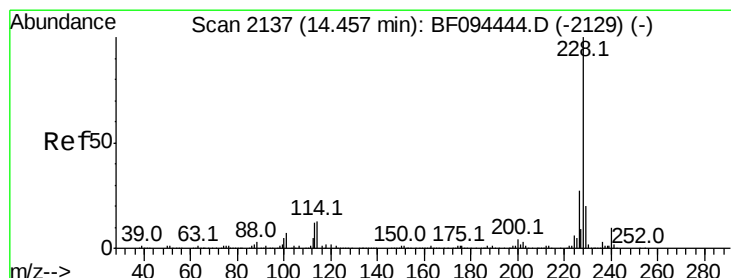
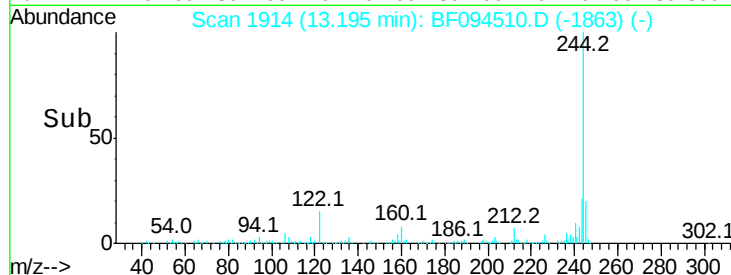
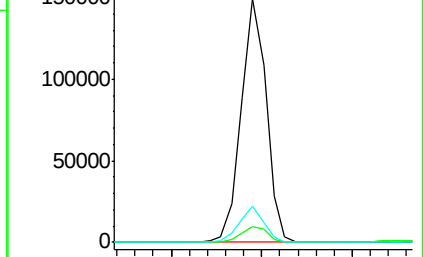
122 14.8 10.3 15.5



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: 23.74 ng

RT: 14.47 min Scan# 2130

Delta R.T. 0.01 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

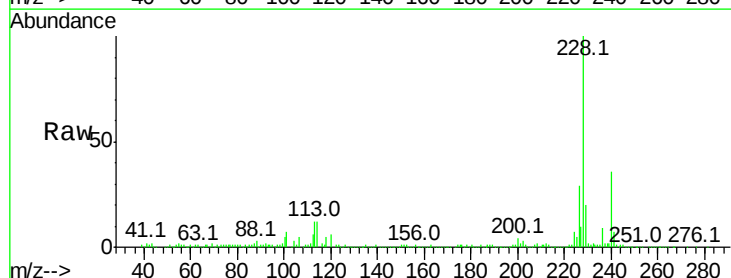
Tgt Ion:228 Resp: 328605

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

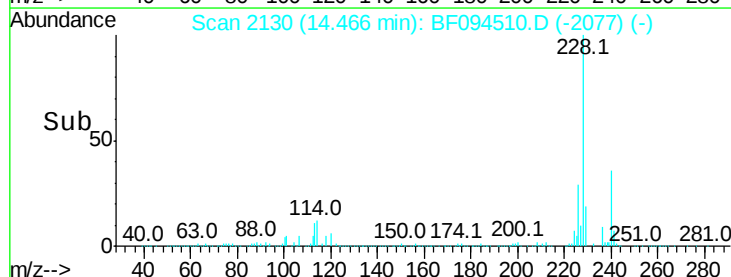
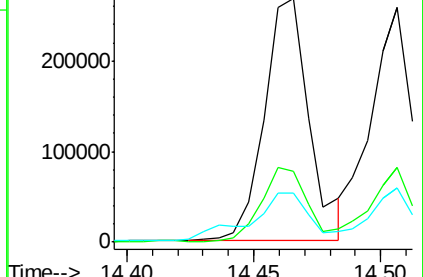
229 20.4 16.3 24.5

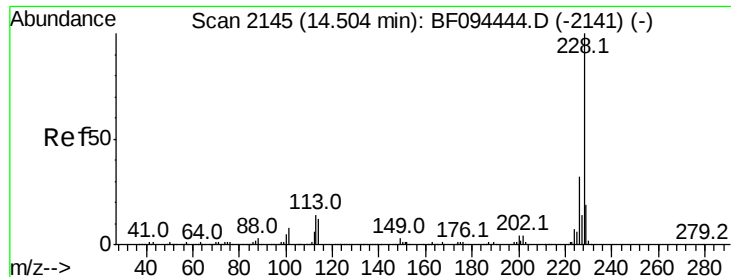


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.67 ng

RT: 14.51 min Scan# 2137

Delta R.T. 0.00 min

Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

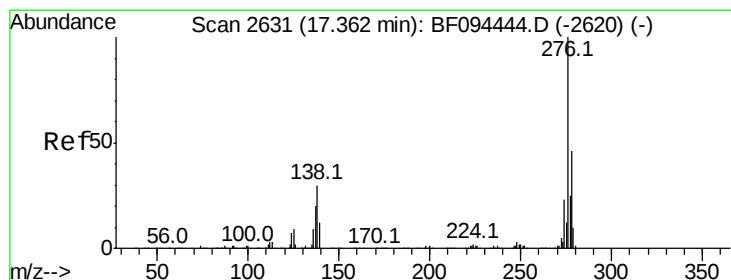
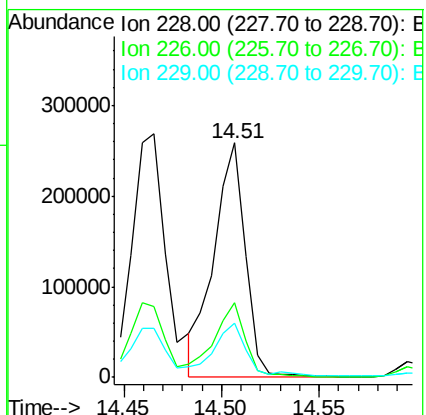
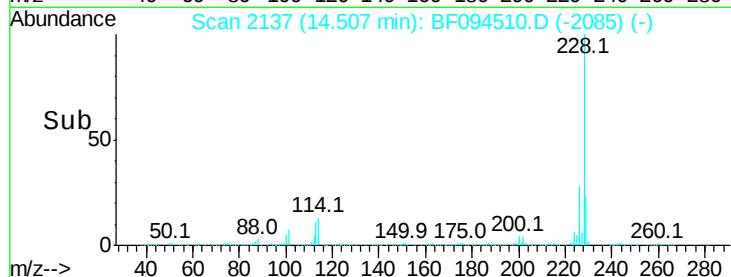
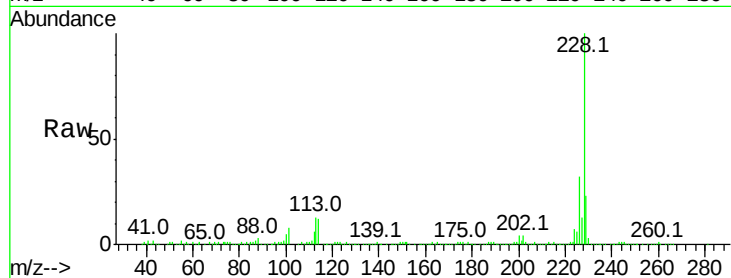
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 286789

Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	23.0	15.8	23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.53 ng

RT: 17.38 min Scan# 2625

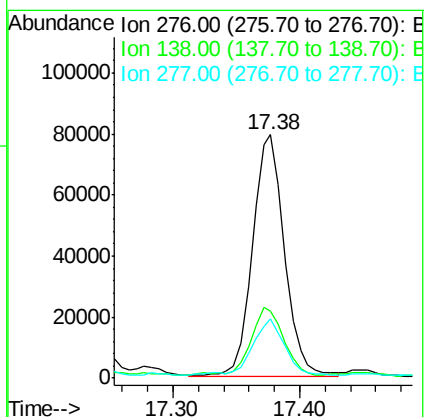
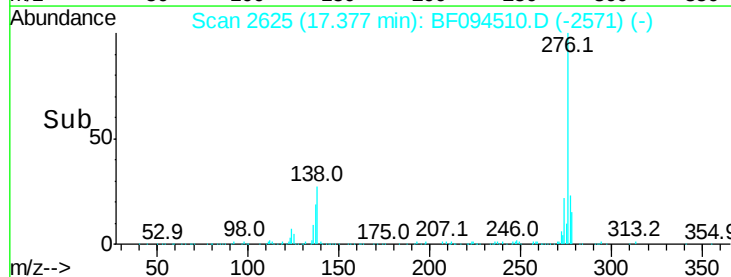
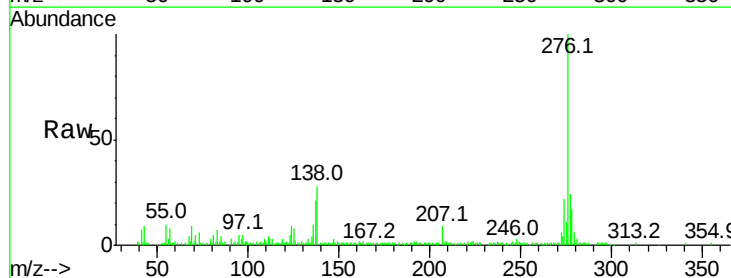
Delta R.T. 0.01 min

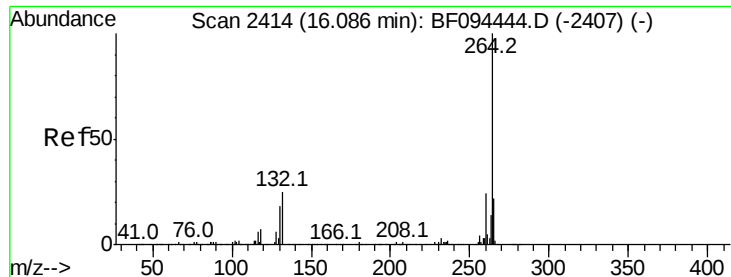
Lab File: BF094510.D

Acq: 19 Apr 2017 2:14

Tgt Ion:276 Resp: 138787

Ion	Ratio	Lower	Upper
276	100		
138	28.2	27.8	41.6
277	23.7	20.2	30.4



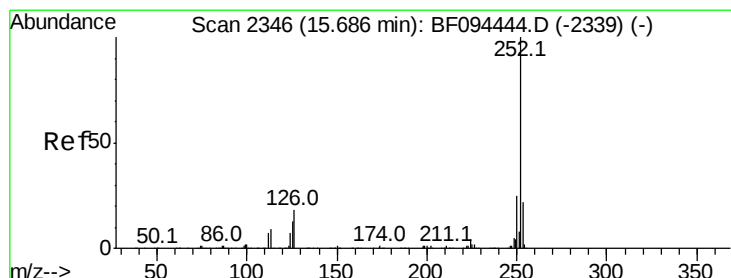
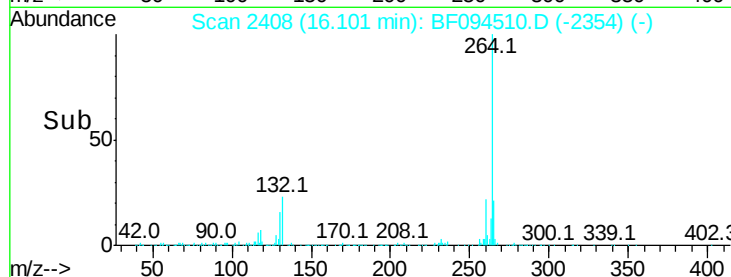
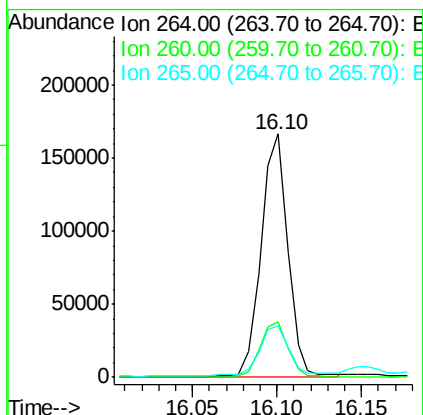
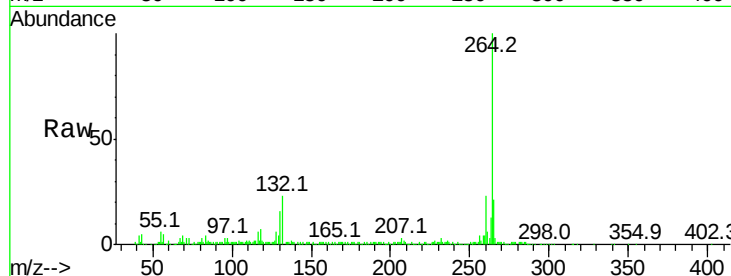


#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.10 min Scan# 2408
Delta R.T. 0.01 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 182493

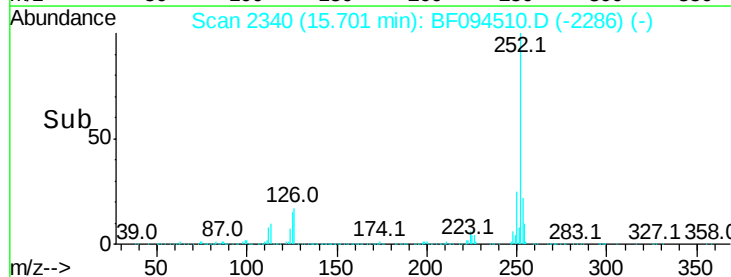
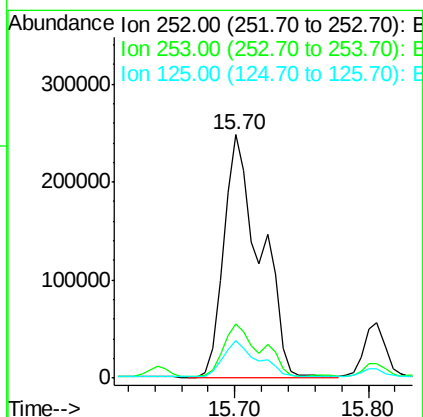
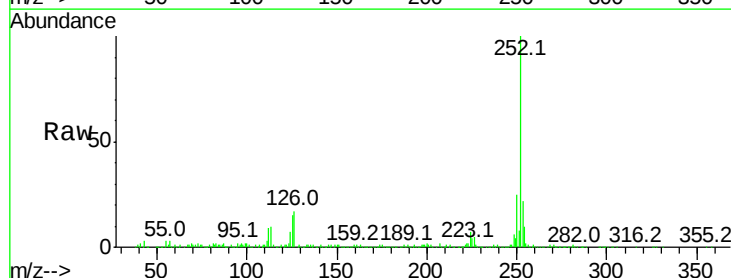
Ion	Ratio	Lower	Upper
264	100		
260	22.6	19.5	29.3
265	21.3	17.2	25.8

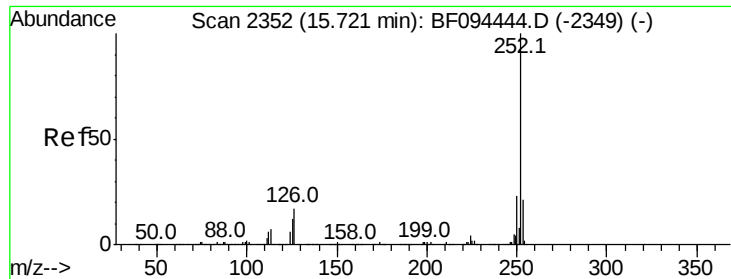


#87
Benzo(b)fluoranthene
Concen: 42.14 ng
RT: 15.70 min Scan# 2340
Delta R.T. 0.01 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Tgt Ion:252 Resp: 470491

Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	15.4	9.8	14.8#

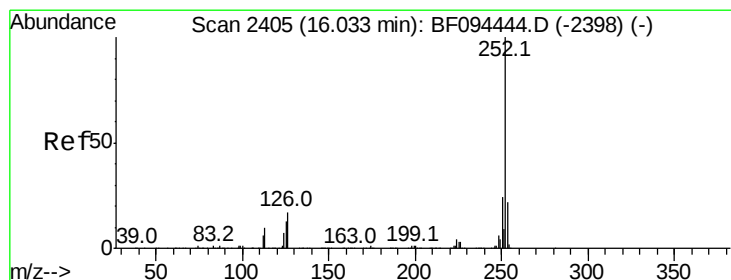
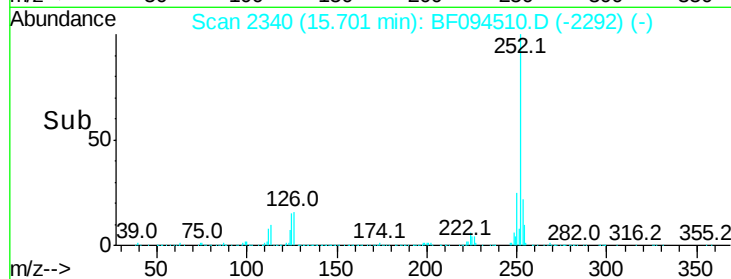
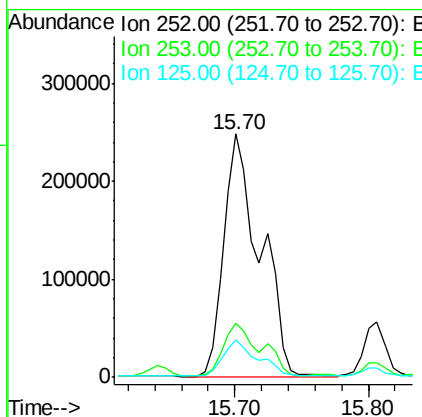
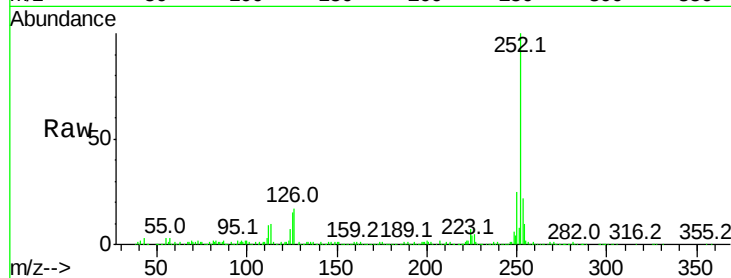




#88
Benzo(k)fluoranthene
Concen: 44.53 ng
RT: 15.70 min Scan# 2340
Delta R.T. -0.02 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

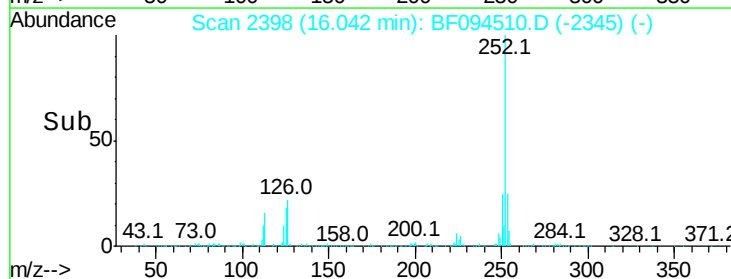
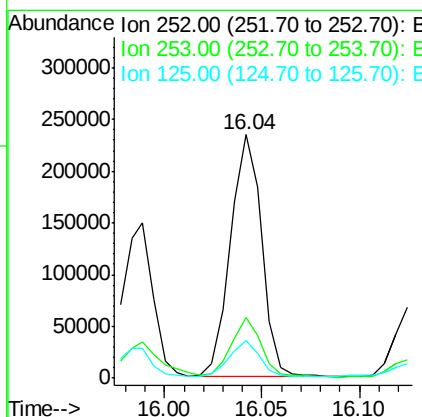
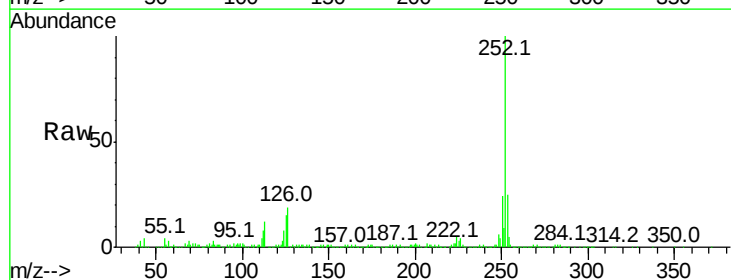
Instrument :
BNA_F
ClientSampleId :

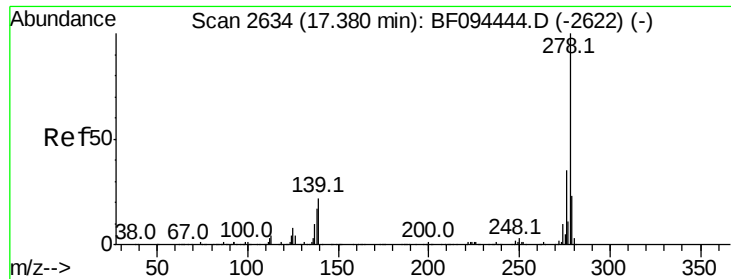
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.4	27.6
125	15.4	13.1	19.7



#89
Benzo(a)pyrene
Concen: 24.97 ng
RT: 16.04 min Scan# 2398
Delta R.T. 0.01 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Tgt Ion	Ratio	Lower	Upper
252	100		
253	25.0	17.5	26.3
125	15.4	11.0	16.4

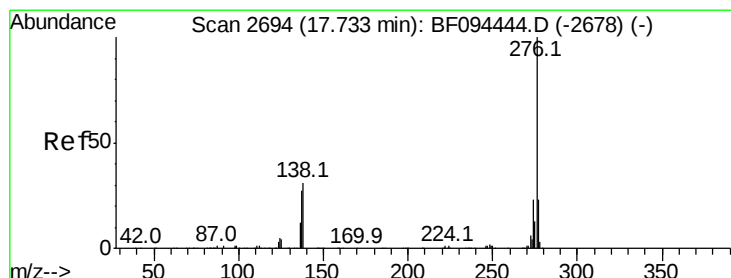
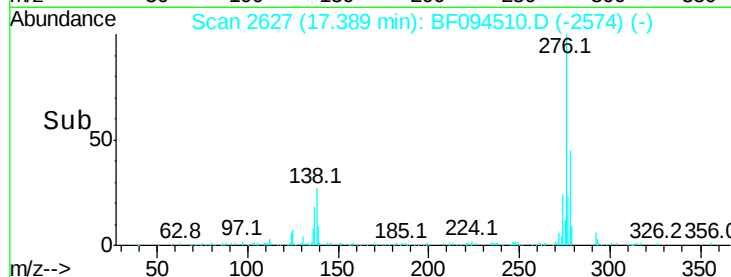
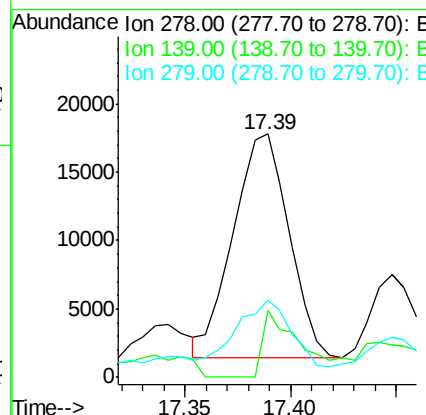
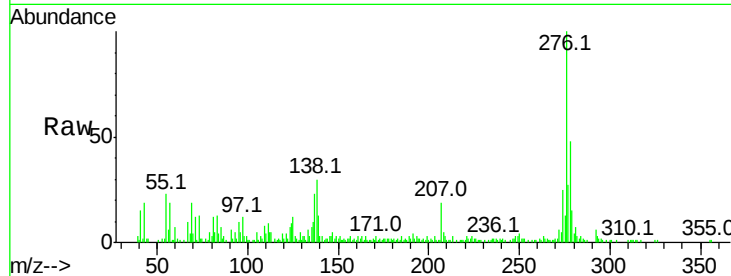




#90
Dibenzo(a,h)anthracene
Concen: 3.46 ng
RT: 17.39 min Scan# 2627
Delta R.T. 0.01 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 29799
Ion Ratio Lower Upper
278 100
139 27.3 16.6 24.8#
279 31.6 19.3 28.9#



#91
Benzo(g,h,i)perylene
Concen: 14.09 ng
RT: 17.75 min Scan# 2689
Delta R.T. 0.02 min
Lab File: BF094510.D
Acq: 19 Apr 2017 2:14

Tgt Ion:276 Resp: 123709
Ion Ratio Lower Upper
276 100
277 26.0 18.6 28.0
138 30.9 25.4 38.0

