

Data Path : Z:\HPCHEM1\BNA F\DATA\BF033117\
 Data File : BF094105.D
 Acq On : 31 Mar 2017 19:25
 Operator : SJ/MA
 Sample : I2463-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 31 23:10:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.90	152	194385	20.00	ng	0.00
21) Naphthalene-d8	7.40	136	754733	20.00	ng	-0.01
38) Acenaphthene-d10	9.54	164	323220	20.00	ng	-0.01
63) Phenanthrene-d10	11.36	188	536860	20.00	ng	-0.01
75) Chrysene-d12	14.62	240	335871	20.00	ng	-0.01
86) Perylene-d12	16.25	264	304689	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.44	112	1130379	98.22	ng	0.00
7) Phenol-d6	5.50	99	1426682	100.21	ng	0.00
23) Nitrobenzene-d5	6.55	82	865987	65.48	ng	-0.01
41) 2,4,6-Tribromophenol	10.52	330	253712	99.33	ng	0.00
44) 2-Fluorobiphenyl	8.73	172	1208820	57.04	ng	0.00
78) Terphenyl-d14	13.34	244	689124	45.99	ng	0.00

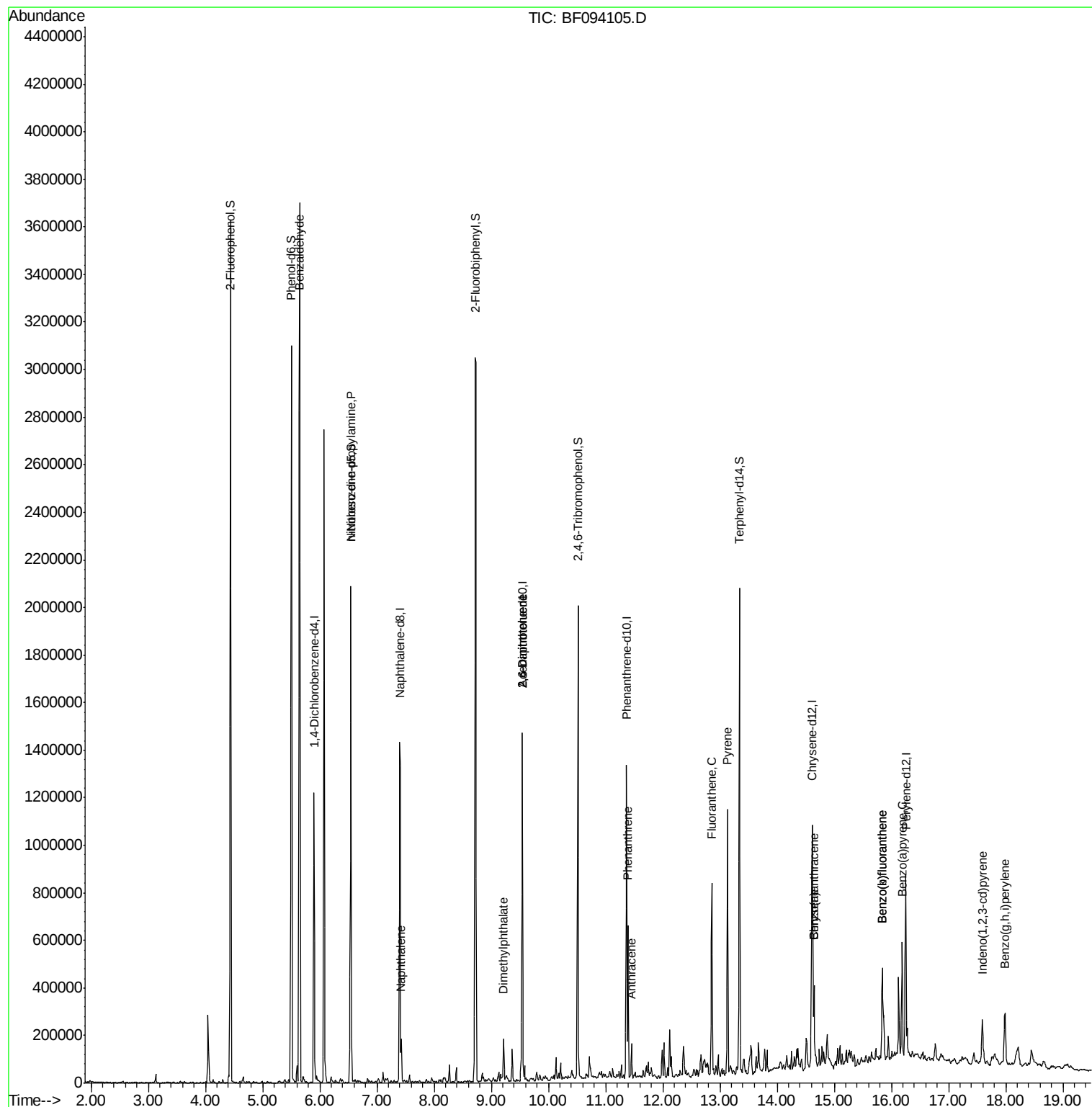
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	5.65	77	25270	2.63	ng	84
19) n-Nitroso-di-n-propylamine	6.55	70	115775	12.65	ng	# 75
31) Naphthalene	7.43	128	97677	2.69	ng	99
49) Dimethylphthalate	9.22	163	75347	3.28	ng	98
50) 2,6-Dinitrotoluene	9.54	165	43351	8.23	ng	# 34
56) 2,4-Dinitrotoluene	9.54	165	43352	6.55	ng	# 33
70) Phenanthrene	11.39	178	246227	8.24	ng	98
71) Anthracene	11.46	178	63386	2.06	ng	98
74) Fluoranthene	12.86	202	346943	11.35	ng	98
77) Pyrene	13.13	202	481171	19.74	ng	99
80) Benzo(a)anthracene	14.64	228	150552	7.69	ng	98
82) Chrysene	14.64	228	150552	8.28	ng	97
85) Indeno(1,2,3-cd)pyrene	17.59	276	117965	7.49	ng	97
87) Benzo(b)fluoranthene	15.84	252	275082	14.73	ng	97
88) Benzo(k)fluoranthene	15.84	252	275082	15.05	ng	96
89) Benzo(a)pyrene	16.19	252	185306	10.77	ng	98
91) Benzo(a,h,i)perylene	17.99	276	150042	10.22	ng	98

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

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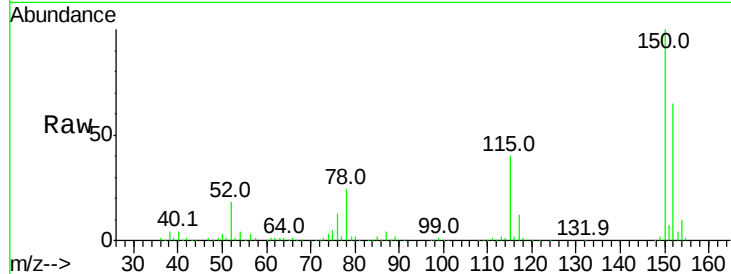


#1

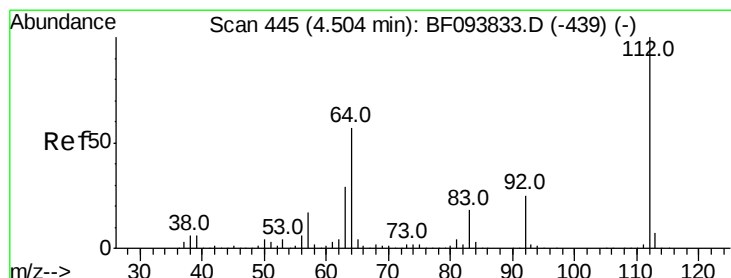
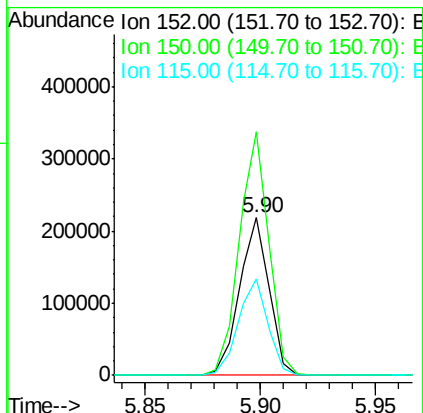
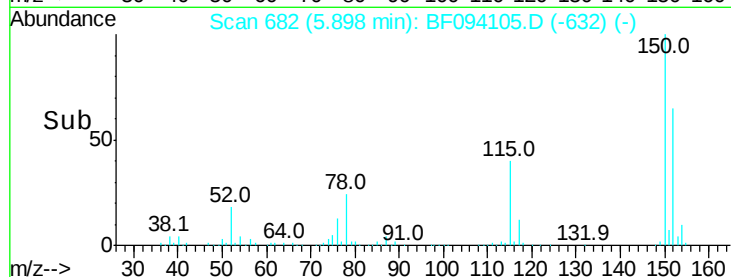
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.90 min Scan# 682
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:152 Resp: 194385
 Ion Ratio Lower Upper
 152 100
 150 154.4 126.2 189.2
 115 61.4 52.2 78.2



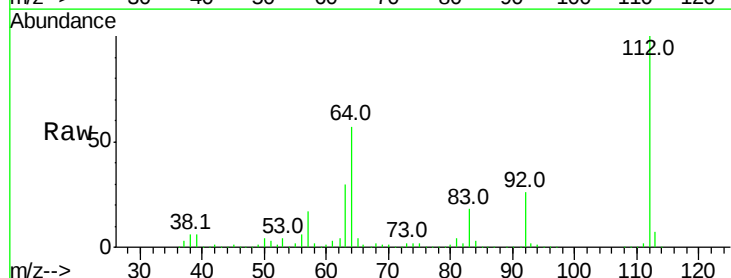
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



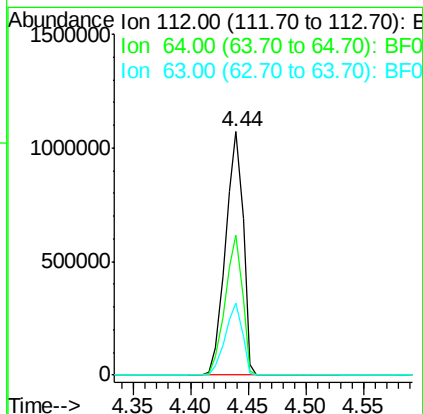
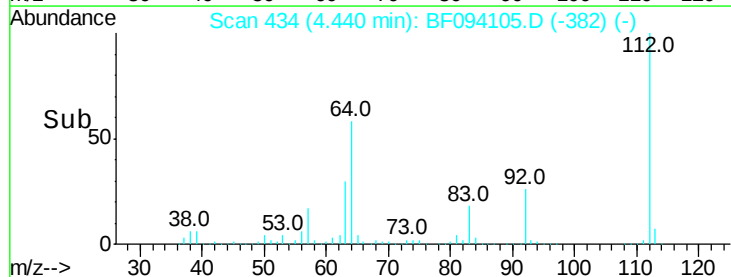
#5

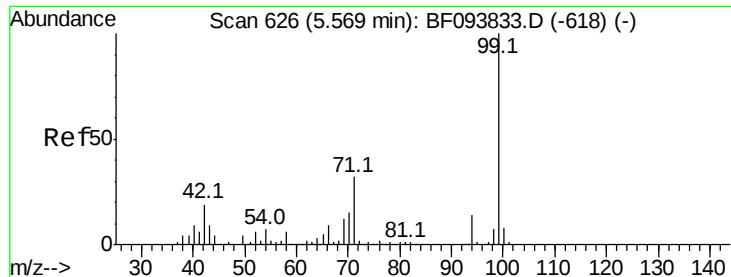
2-Fluorophenol
 Concen: 98.22 ng
 RT: 4.44 min Scan# 434
 Delta R.T. 0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Tgt Ion:112 Resp: 1130379
 Ion Ratio Lower Upper
 112 100
 64 57.3 46.0 69.0
 63 29.5 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: 100.21 ng

RT: 5.50 min Scan# 615

Delta R.T. -0.01 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampleId :

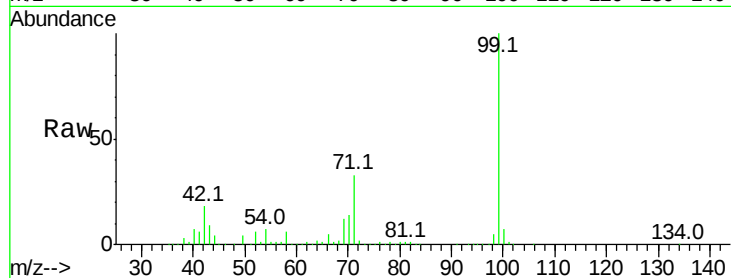
Tot Ion: 99 Resp: 1426682

Ion Ratio Lower Upper

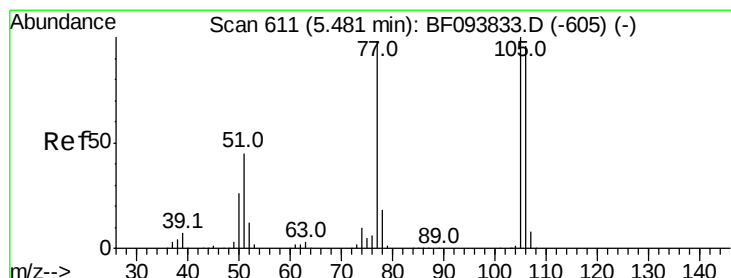
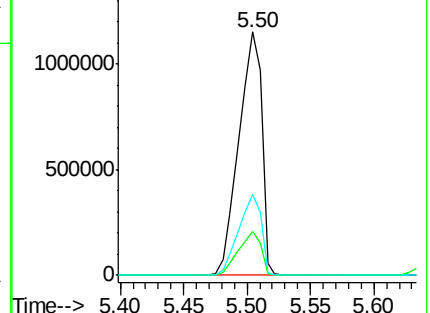
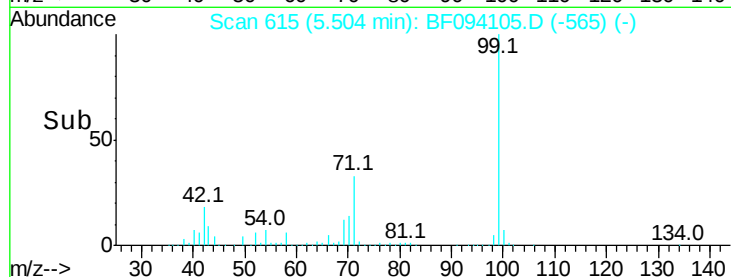
99 100

42 18.0 13.5 20.3

71 33.3 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



#9

Benzaldehyde

Concen: 2.63 ng

RT: 5.65 min Scan# 639

Delta R.T. 0.25 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

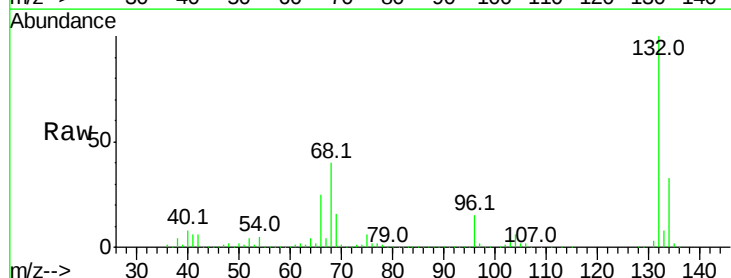
Tgt Ion: 77 Resp: 25270

Ion Ratio Lower Upper

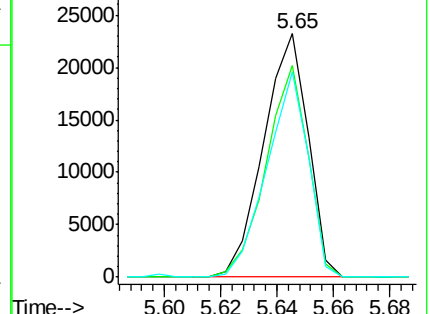
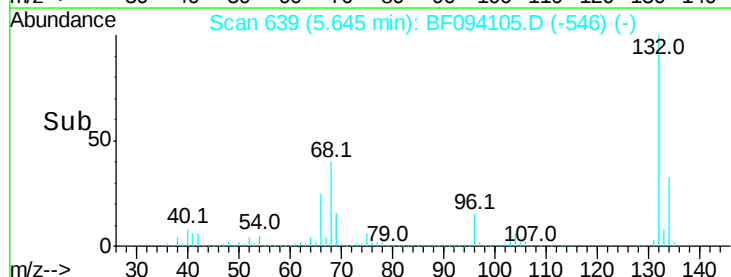
77 100

105 86.9 83.8 123.8

106 84.5 79.1 119.1



Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 105.00 (104.70 to 105.70): BF0
Ion 106.00 (105.70 to 106.70): BF0





#19

n-Nitroso-di-n-propylamine

Concen: 12.65 ng

RT: 6.55 min Scan# 792

Delta R.T. 0.15 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampleId :

Tot Ion: 70 Resp: 115775

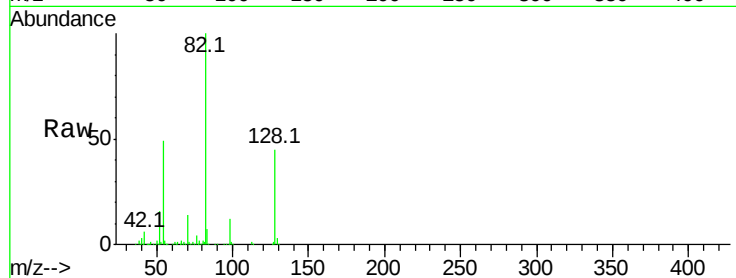
Ion Ratio Lower Upper

70 100

42 43.5 47.2 70.8#

101 0.0 7.2 10.8#

130 1.8 15.9 23.9#

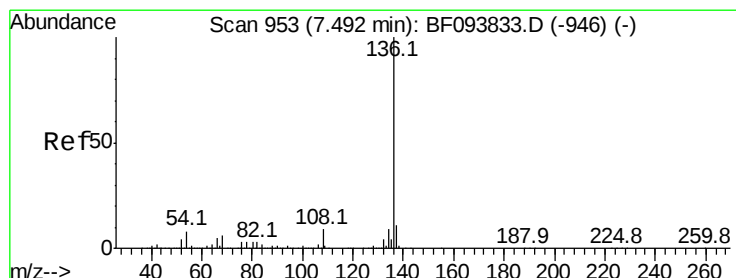
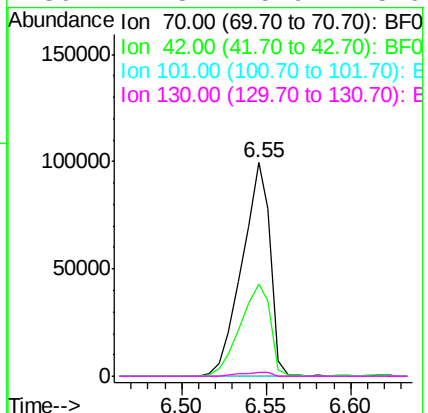
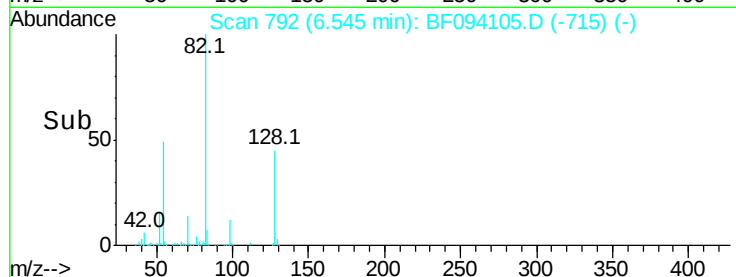


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.40 min Scan# 937

Delta R.T. -0.01 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Tgt Ion: 136 Resp: 754733

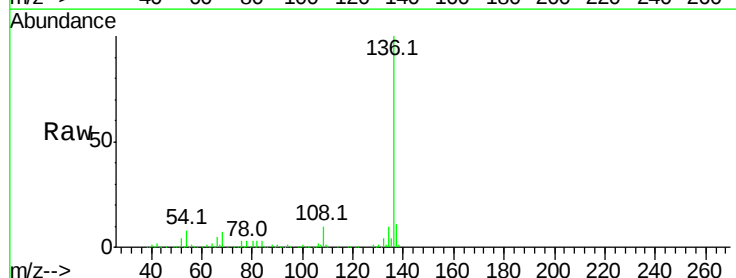
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.9 4.9 7.3#

68 6.5 4.1 6.1#

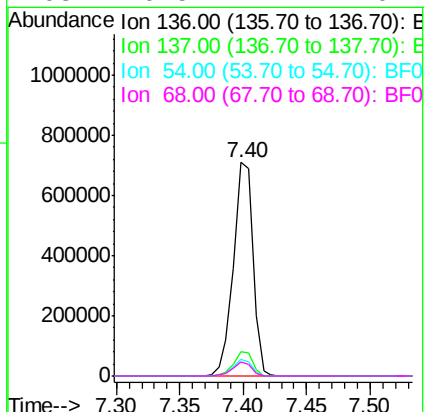
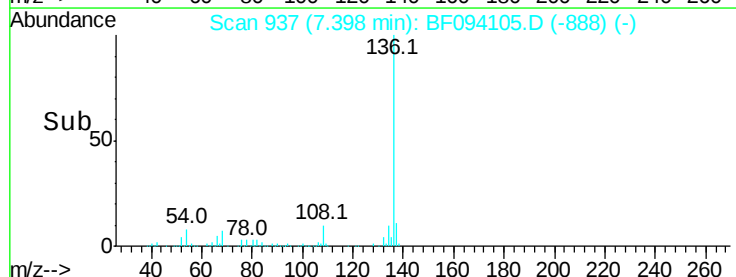


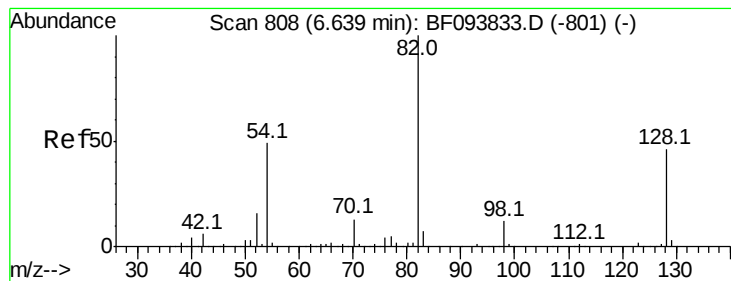
Abundance Ion 136.00 (135.70 to 136.70): BF0

Ion 137.00 (136.70 to 137.70): BF0

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 65.48 ng

RT: 6.55 min Scan# 792

Delta R.T. -0.01 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampleId :

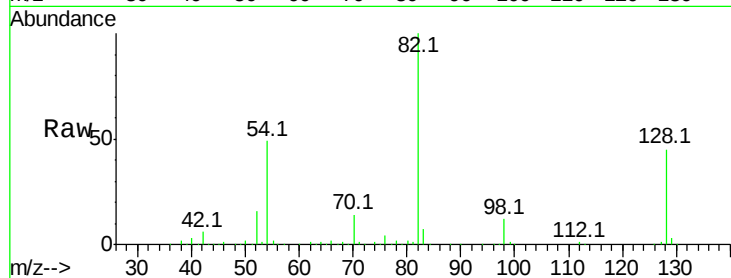
Tot Ion: 82 Resp: 865987

Ion Ratio Lower Upper

82 100

128 45.1 34.0 51.0

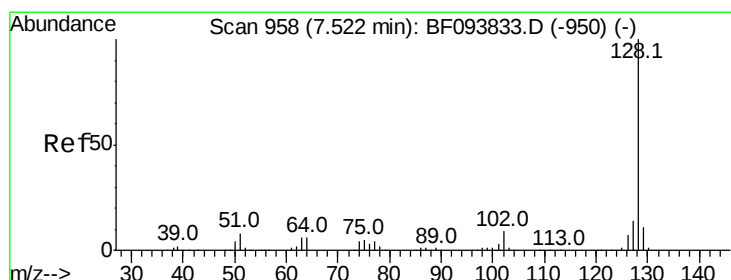
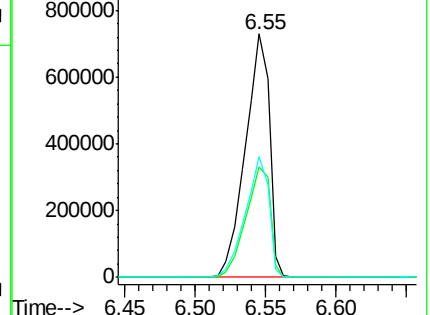
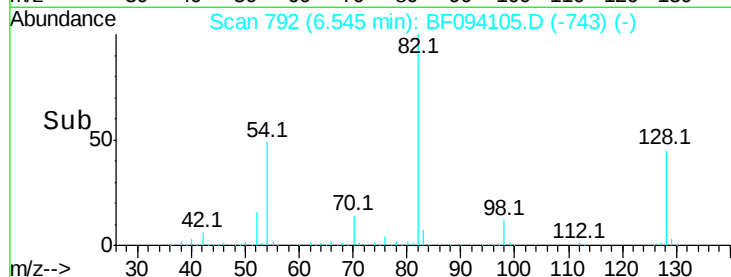
54 49.4 42.2 63.2



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



#31

Naphthalene

Concen: 2.69 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.01 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

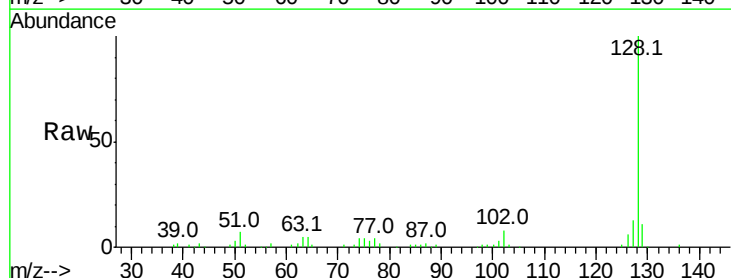
Tgt Ion: 128 Resp: 97677

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.6

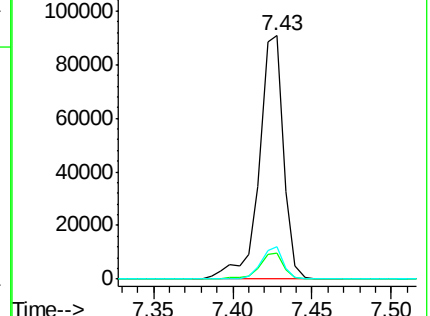
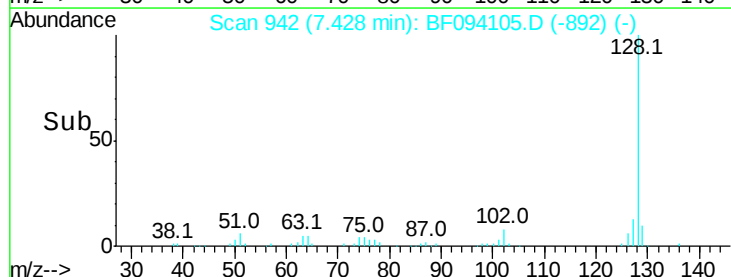
127 13.4 10.8 16.2

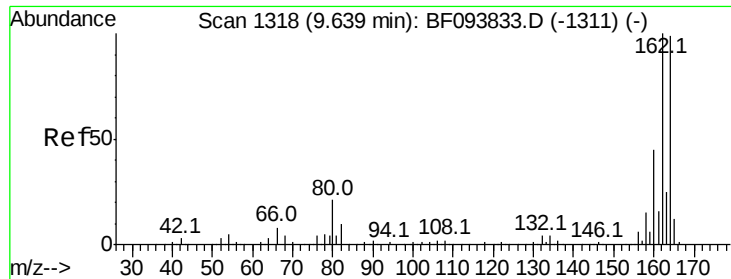


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

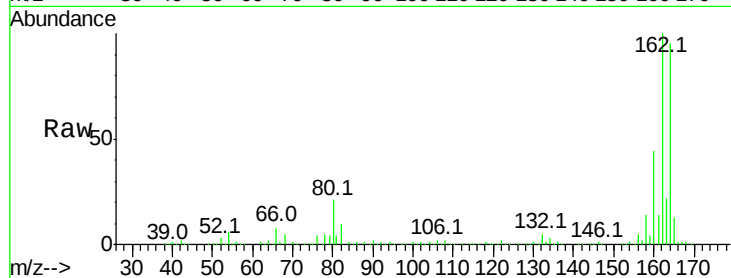




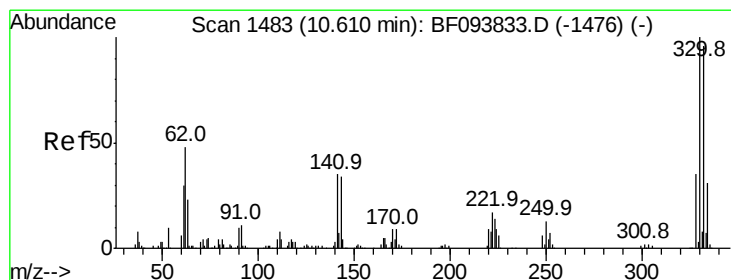
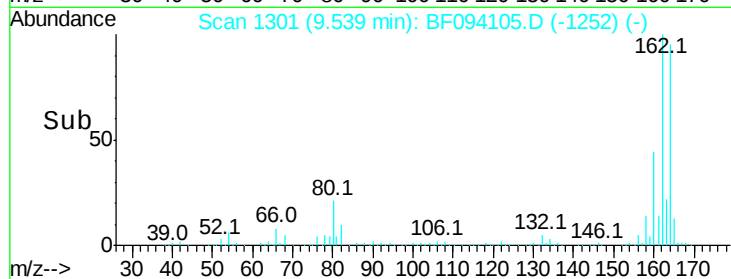
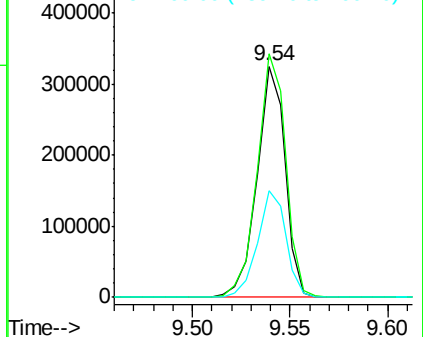
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.54 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 323220
 Ion Ratio Lower Upper
 164 100
 162 105.3 82.6 123.8
 160 46.2 36.2 54.2

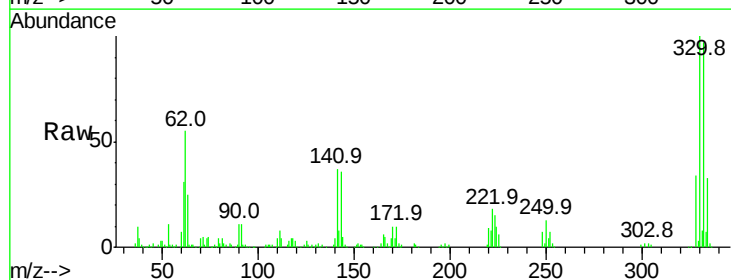


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

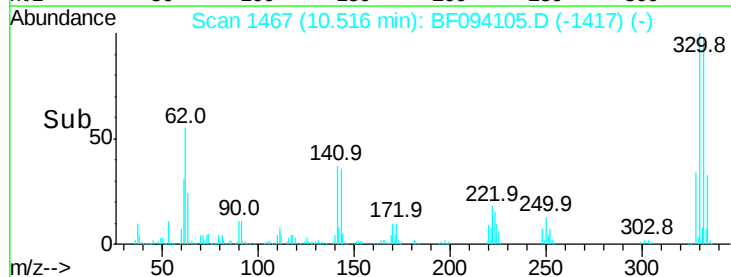
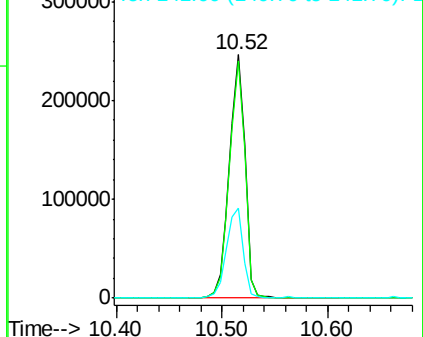


#41
 2,4,6-Tribromophenol
 Concen: 99.33 ng
 RT: 10.52 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Tgt Ion:330 Resp: 253712
 Ion Ratio Lower Upper
 330 100
 332 97.1 76.6 115.0
 141 39.1 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



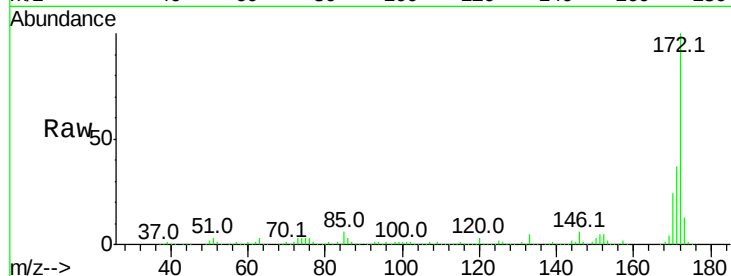


#44
 2-Fluorobiphenyl
 Concen: 57.04 ng
 RT: 8.73 min Scan# 1163
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

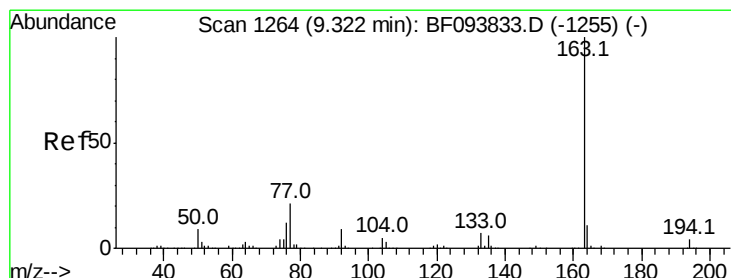
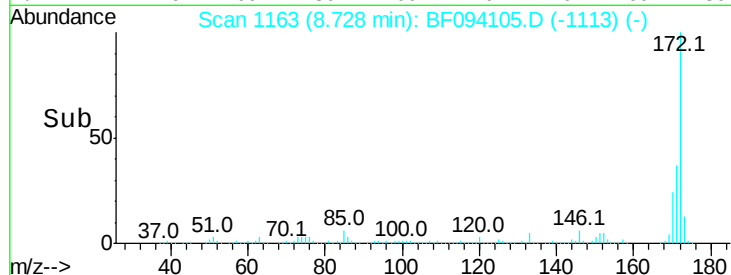
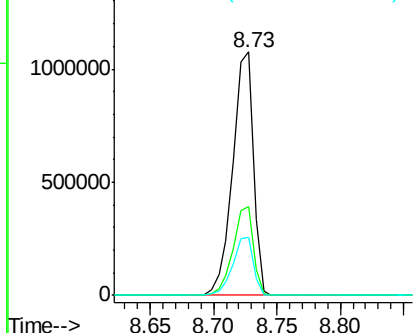
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1208820

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	24.0	19.8	29.8



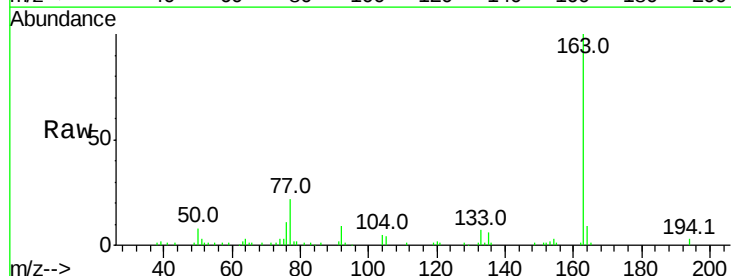
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



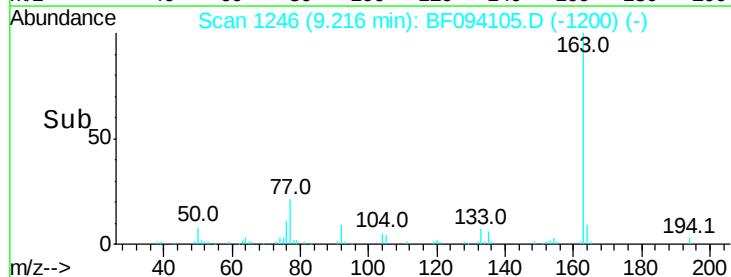
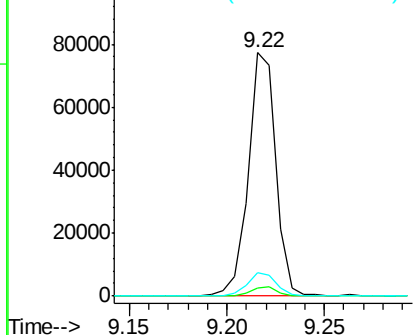
#49
 Dimethylphthalate
 Concen: 3.28 ng
 RT: 9.22 min Scan# 1246
 Delta R.T. -0.03 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

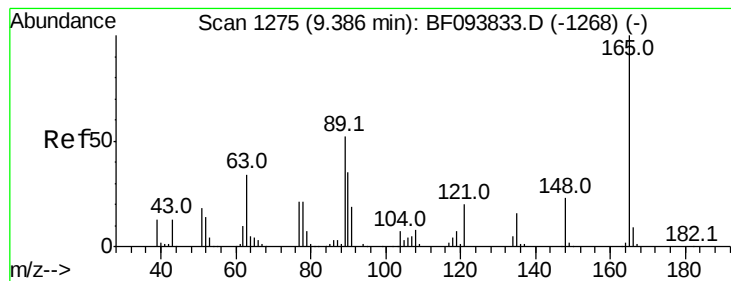
Tgt Ion:163 Resp: 75347

Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.6	4.0
164	9.5	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: 8.23 ng

RT: 9.54 min Scan# 1301

Delta R.T. 0.24 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampled :

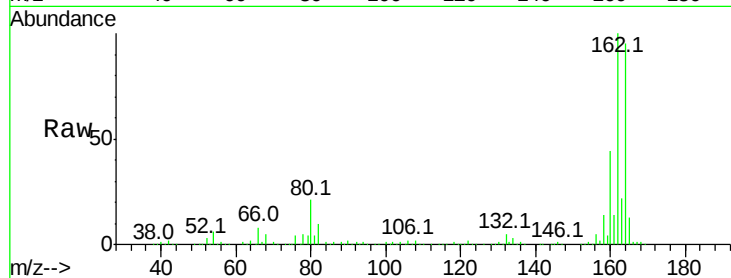
Tot Ion:165 Resp: 43351

Ion Ratio Lower Upper

165 100

63 1.6 34.3 51.5#

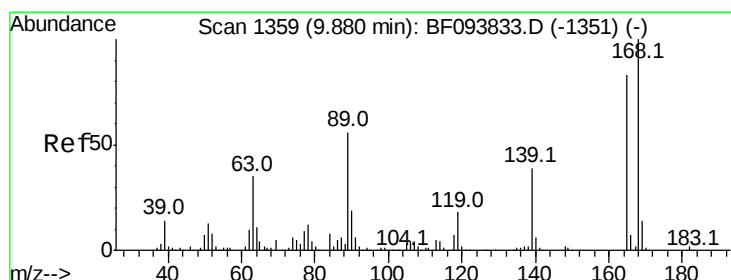
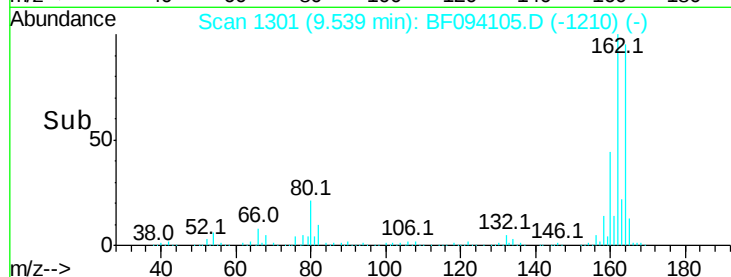
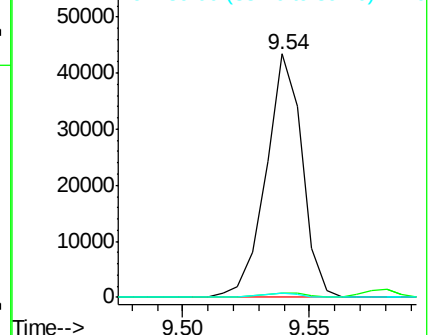
89 1.5 37.1 55.7#



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: 6.55 ng

RT: 9.54 min Scan# 1301

Delta R.T. -0.26 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Tgt Ion:165 Resp: 43352

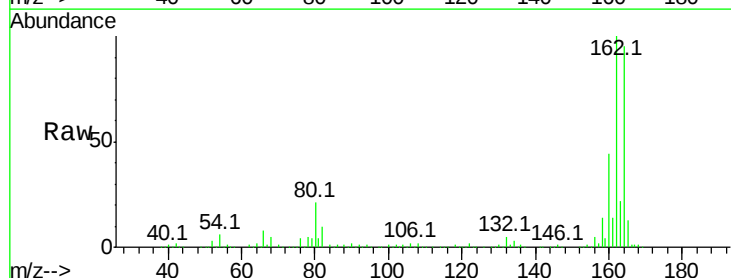
Ion Ratio Lower Upper

165 100

63 1.6 25.4 38.0#

89 1.5 46.4 69.6#

182 0.0 1.8 2.6#

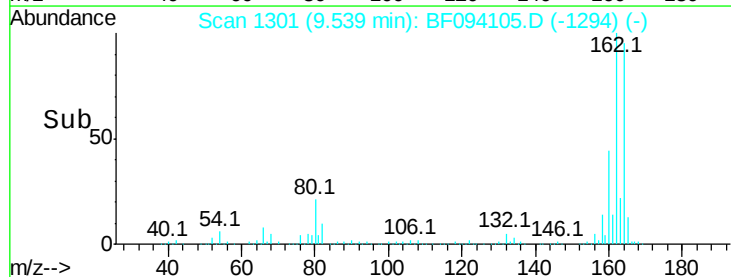
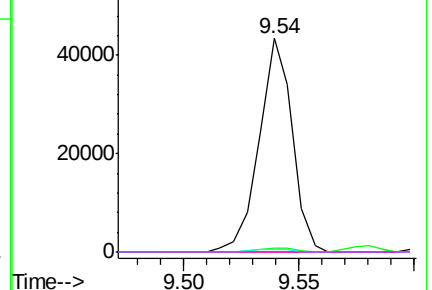


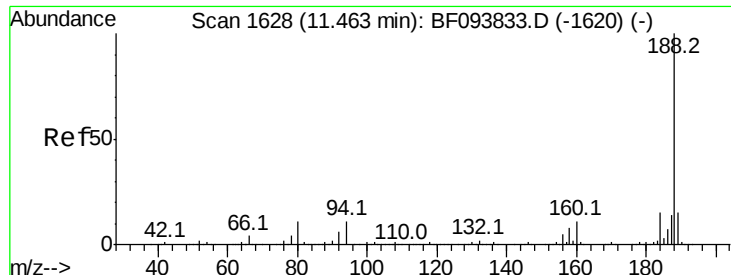
Abundance Ion 165.00 (164.70 to 165.70): E

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

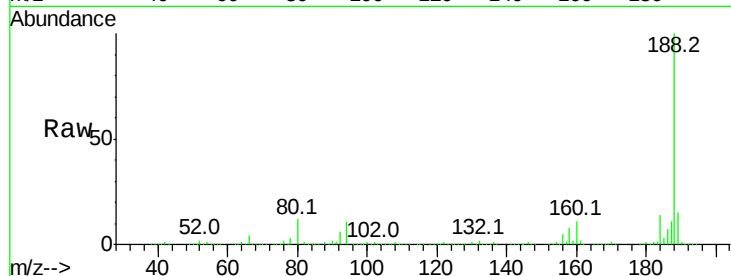




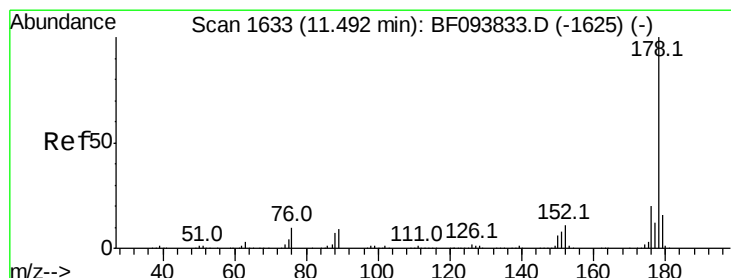
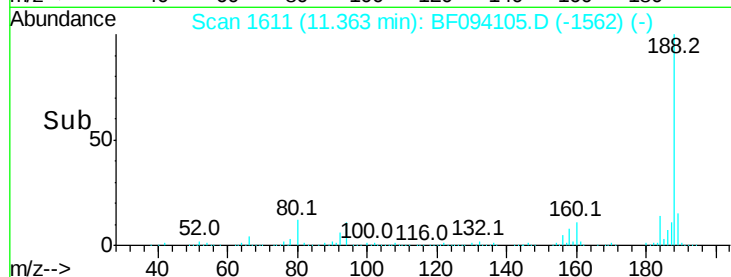
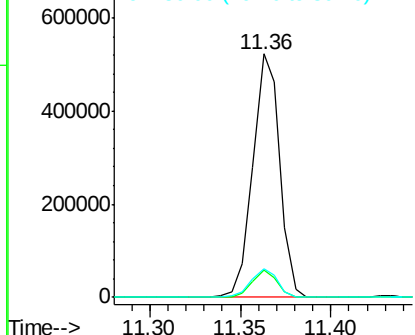
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 1611
Delta R.T. -0.01 min
Lab File: BF094105.D
Acq: 31 Mar 2017 19:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 536860
Ion Ratio Lower Upper
188 100
94 11.3 9.4 14.2
80 11.8 10.2 15.2

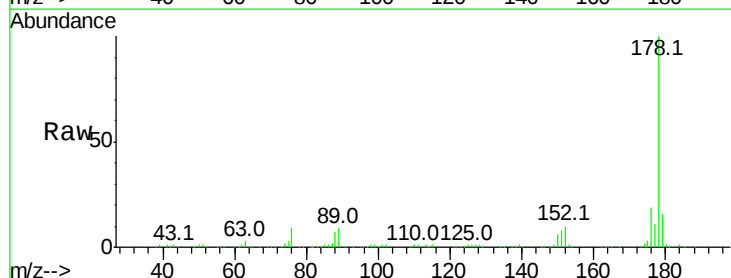


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

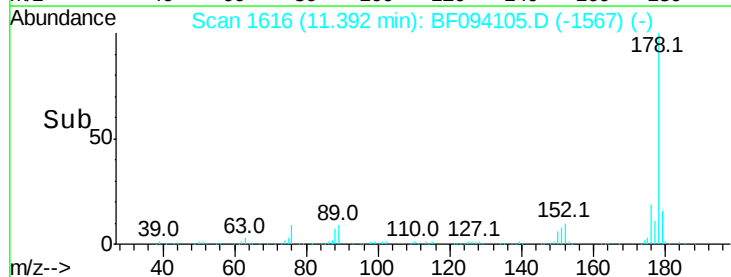
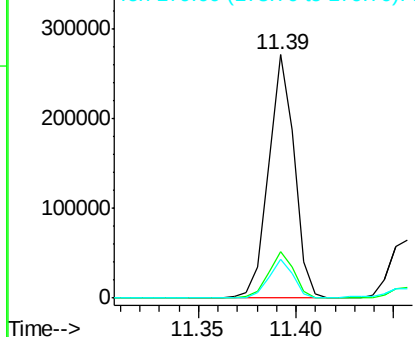


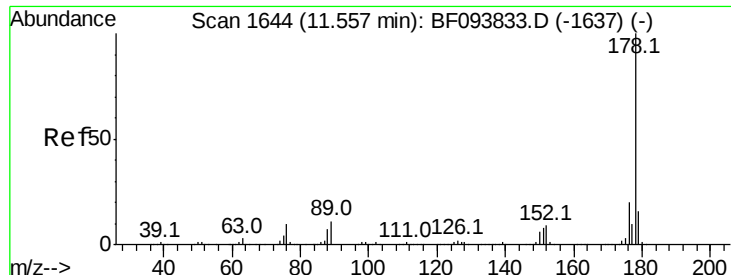
#70
Phenanthrene
Concen: 8.24 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.01 min
Lab File: BF094105.D
Acq: 31 Mar 2017 19:25

Tgt Ion:178 Resp: 246227
Ion Ratio Lower Upper
178 100
176 19.0 16.2 24.4
179 15.8 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

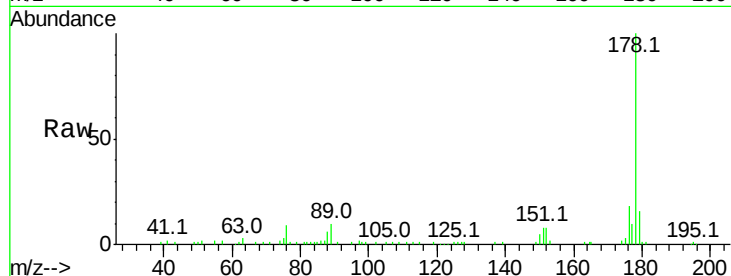




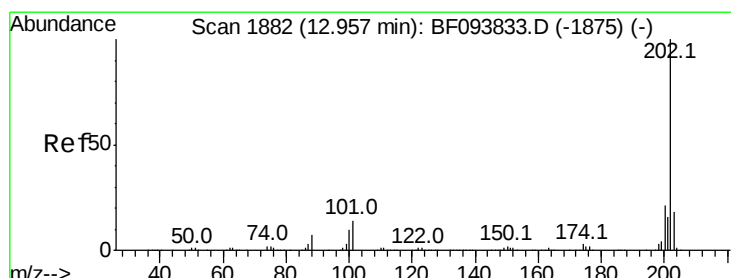
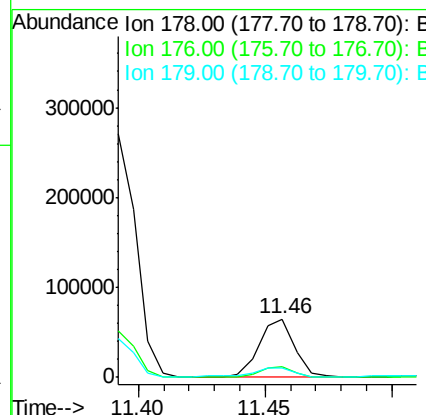
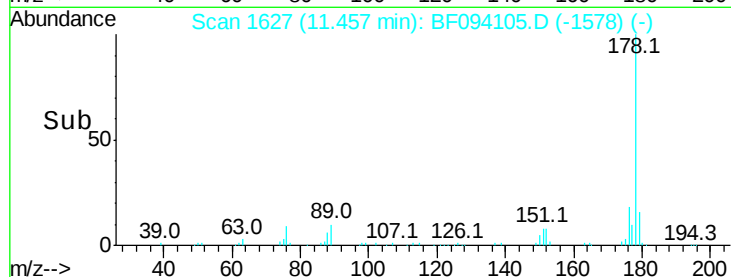
#71
 Anthracene
 Concen: 2.06 ng
 RT: 11.46 min Scan# 1627
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 63386
 Ion Ratio Lower Upper
 178 100
 176 18.2 15.8 23.8
 179 15.9 12.7 19.1

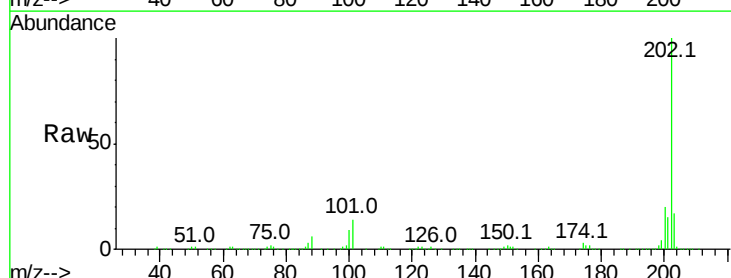


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

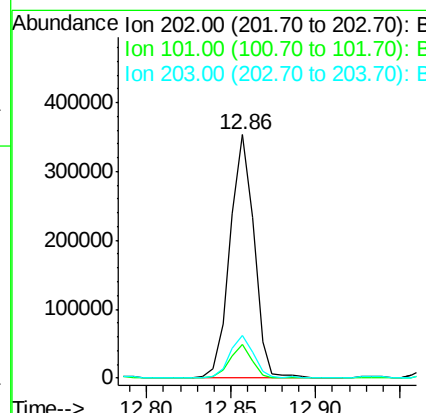
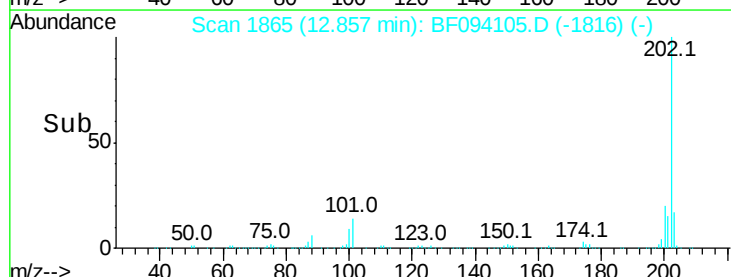


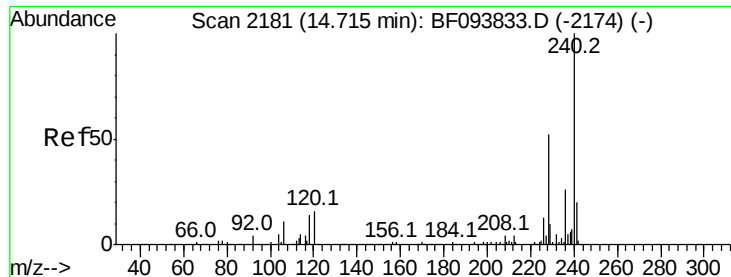
#74
 Fluoranthene
 Concen: 11.35 ng
 RT: 12.86 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Tgt Ion:202 Resp: 346943
 Ion Ratio Lower Upper
 202 100
 101 13.7 0.0 33.2
 203 17.3 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: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampleId :

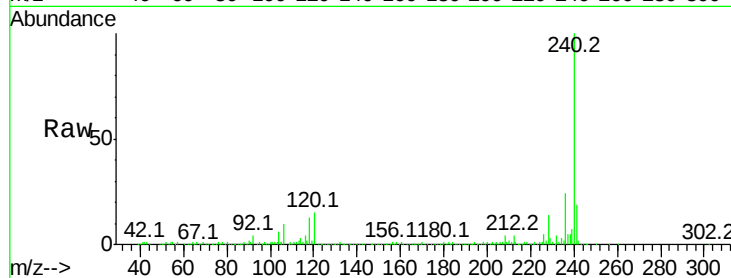
Tot Ion:240 Resp: 335871

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

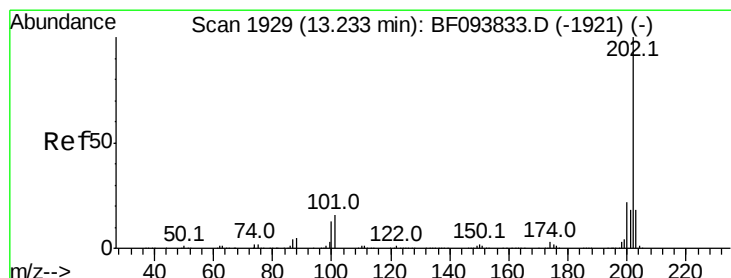
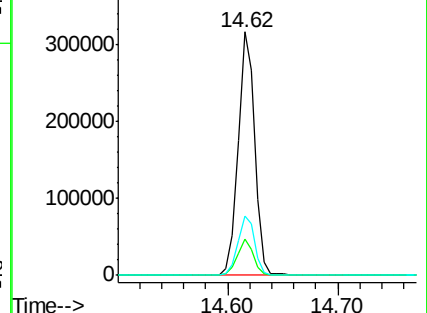
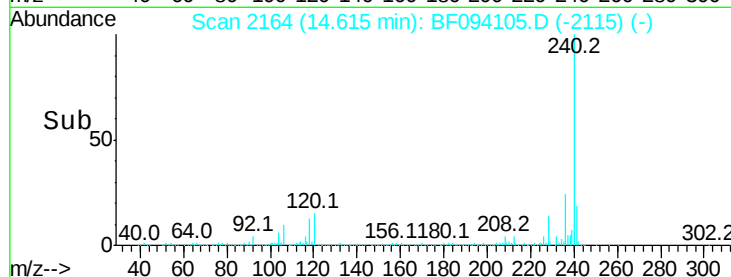
236 24.4 20.5 30.7



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: 19.74 ng

RT: 13.13 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

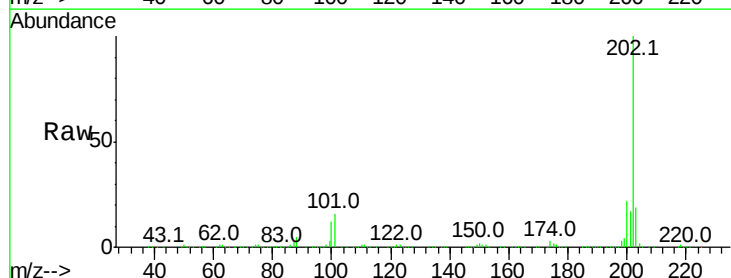
Tgt Ion:202 Resp: 481171

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

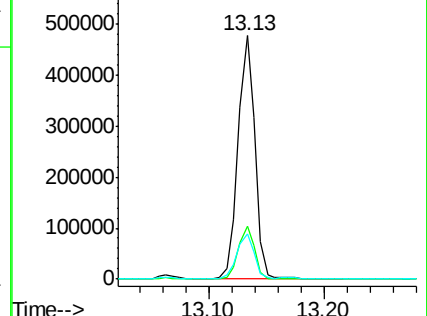
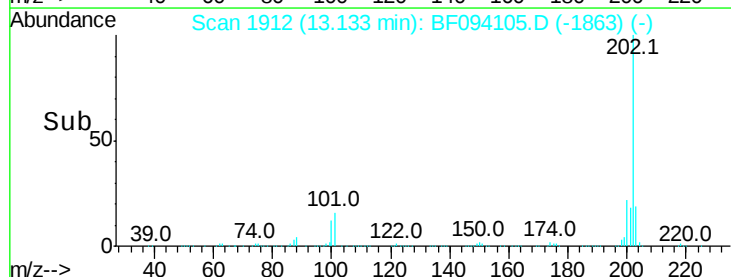
203 18.6 14.4 21.6

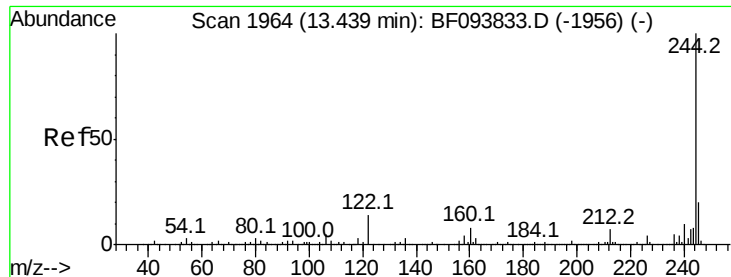


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

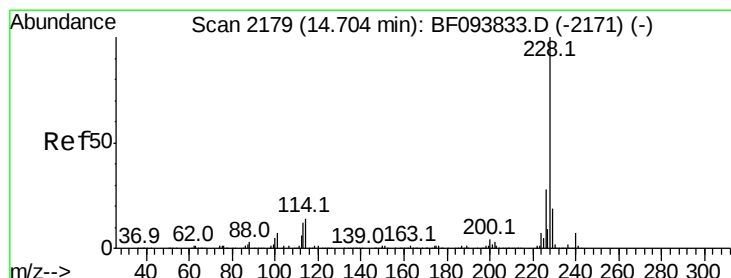
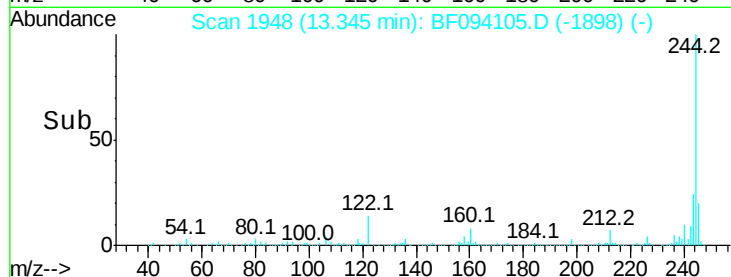
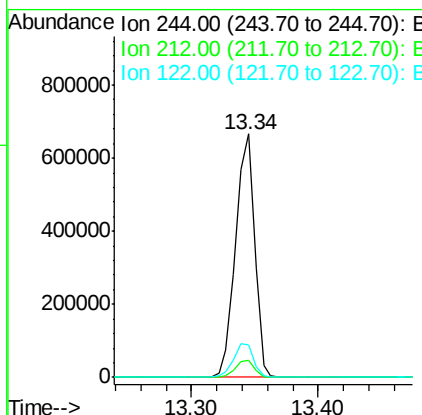
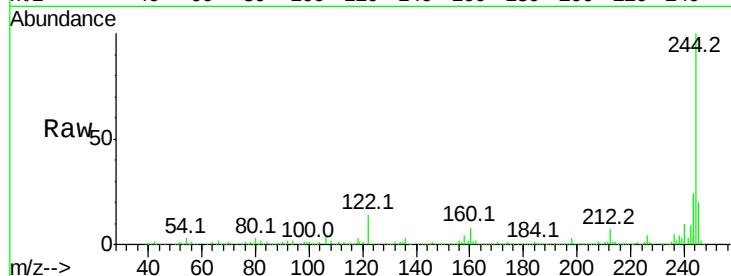




#78
 Terphenyl-d14
 Concen: 45.99 ng
 RT: 13.34 min Scan# 1948
 Delta R.T. -0.01 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

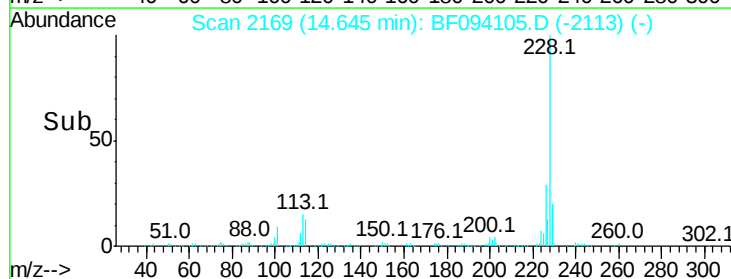
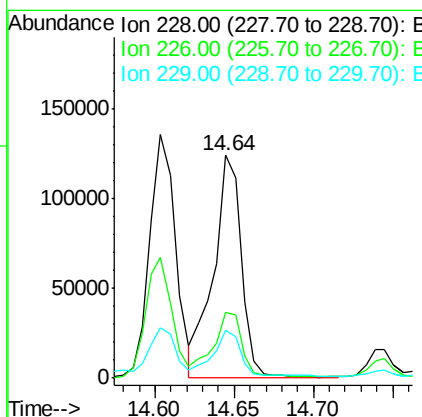
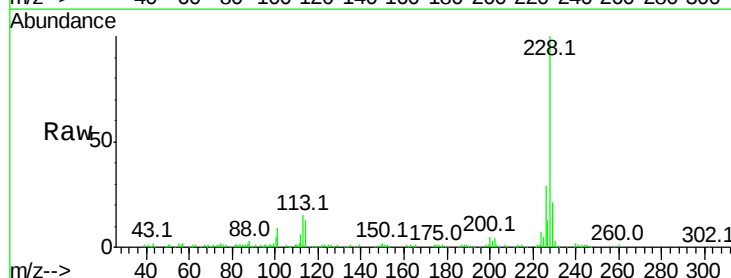
Instrument :
 BNA_F
 ClientSampleId :

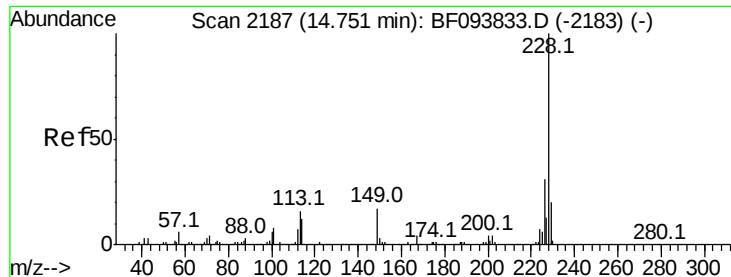
Tot Ion:244 Resp: 689124
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 13.5 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 7.69 ng
 RT: 14.64 min Scan# 2169
 Delta R.T. 0.03 min
 Lab File: BF094105.D
 Acq: 31 Mar 2017 19:25

Tgt Ion:228 Resp: 150552
 Ion Ratio Lower Upper
 228 100
 226 29.3 22.6 33.8
 229 21.2 16.3 24.5





#82

Chrysene

Concen: 8.28 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampleId :

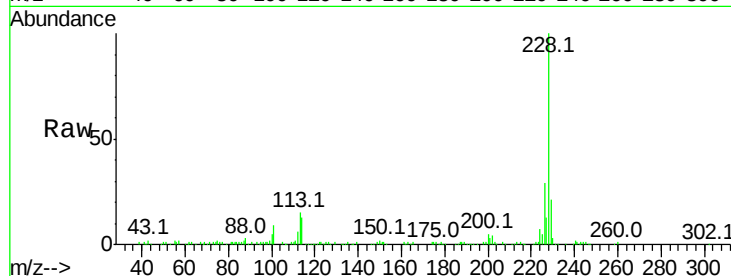
Tot Ion:228 Resp: 150552

Ion Ratio Lower Upper

228 100

226 29.3 24.9 37.3

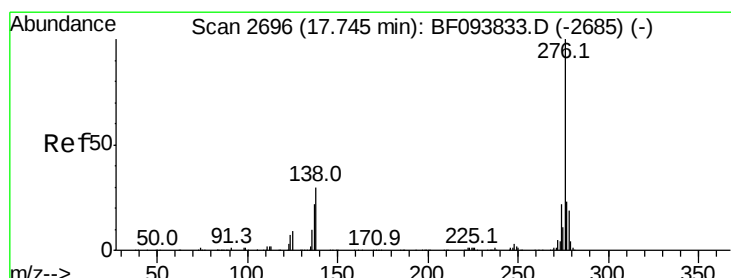
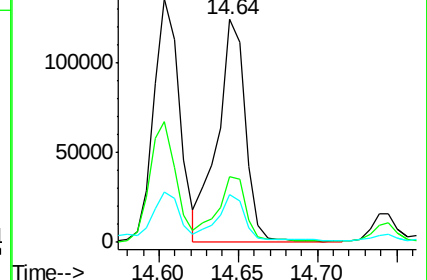
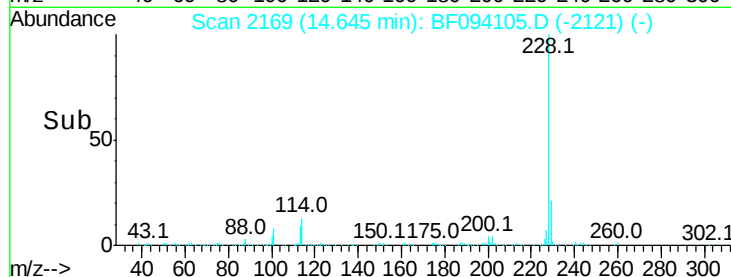
229 21.2 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.49 ng

RT: 17.59 min Scan# 2670

Delta R.T. -0.02 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

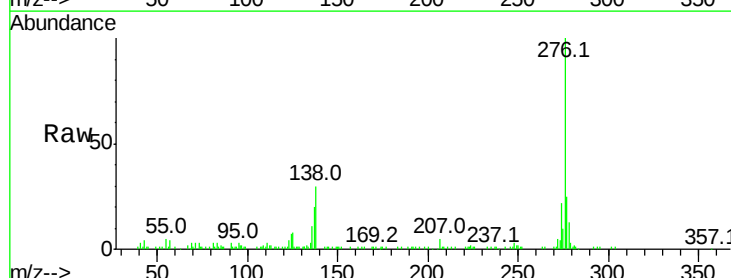
Tgt Ion:276 Resp: 117965

Ion Ratio Lower Upper

276 100

138 31.8 27.8 41.6

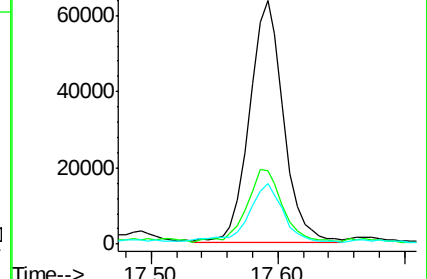
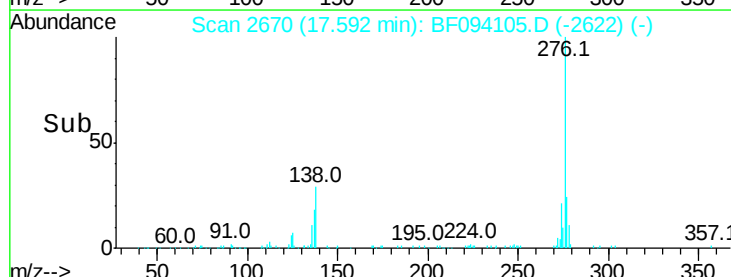
277 25.1 20.2 30.4

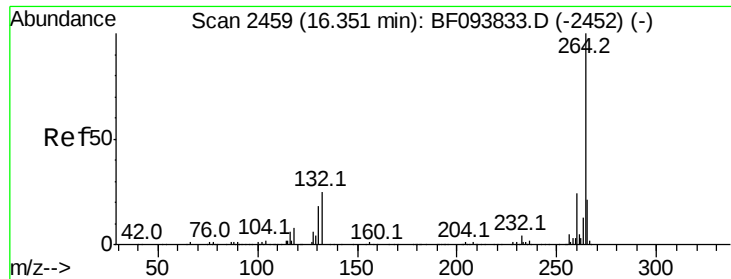


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



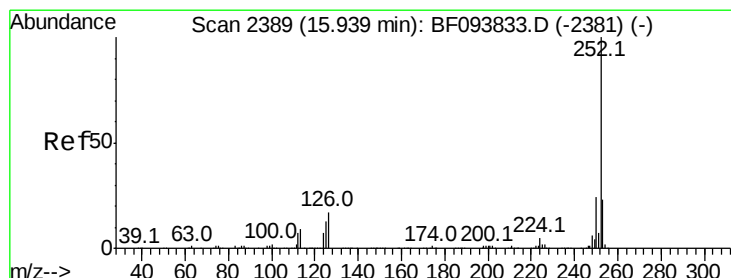
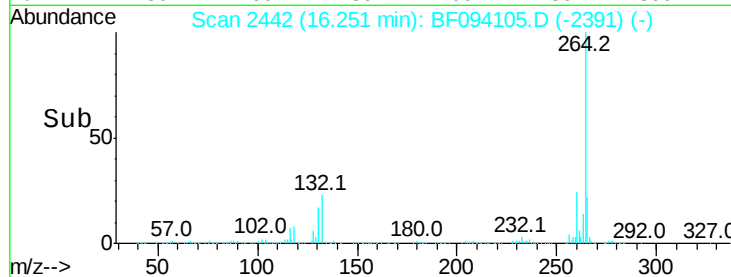
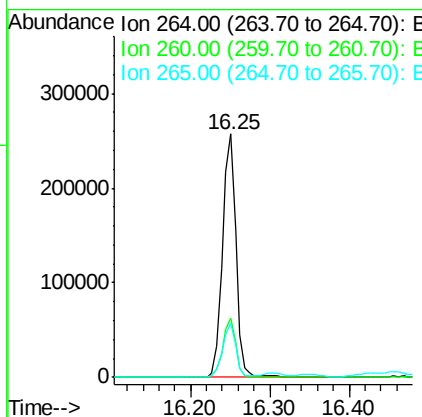
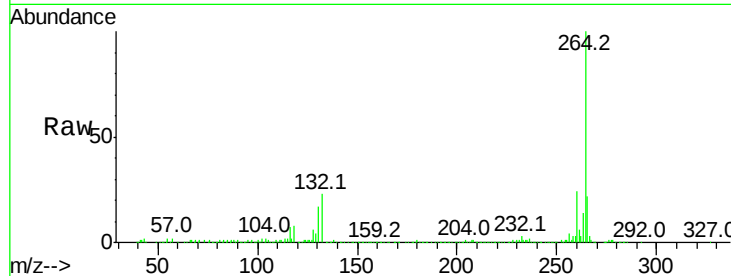


#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.25 min Scan# 2442
Delta R.T. -0.00 min
Lab File: BF094105.D
Acq: 31 Mar 2017 19:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 304689

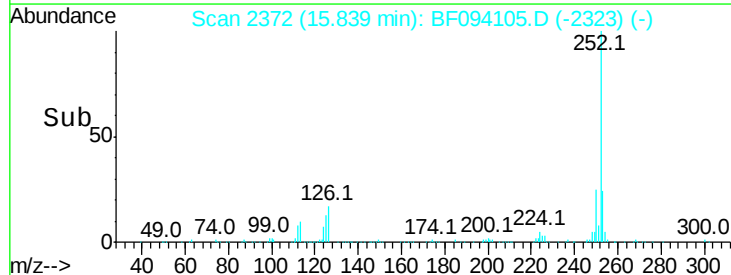
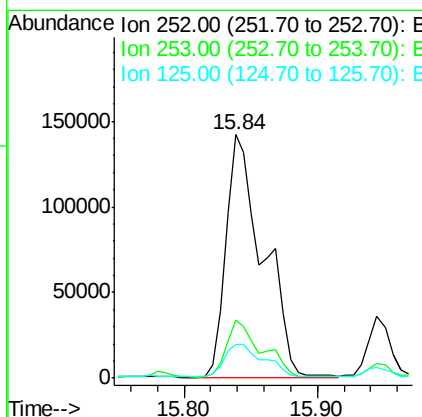
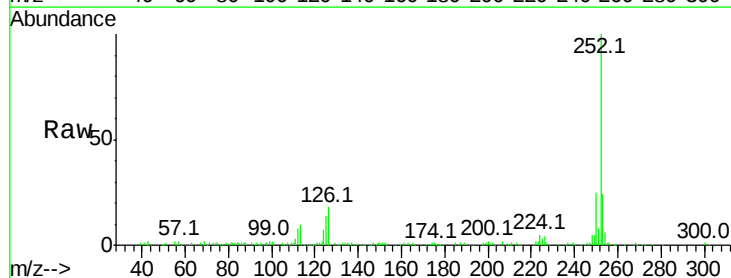
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.3	17.2	25.8

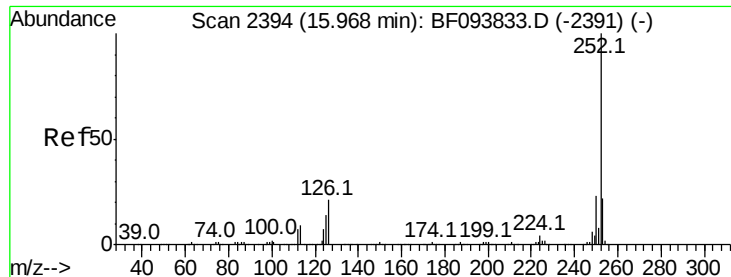


#87
Benzo(b)fluoranthene
Concen: 14.73 ng
RT: 15.84 min Scan# 2372
Delta R.T. -0.01 min
Lab File: BF094105.D
Acq: 31 Mar 2017 19:25

Tgt Ion:252 Resp: 275082

Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.1	27.1
125	13.8	9.8	14.8

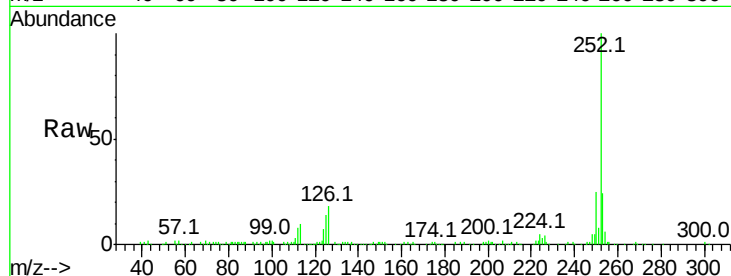




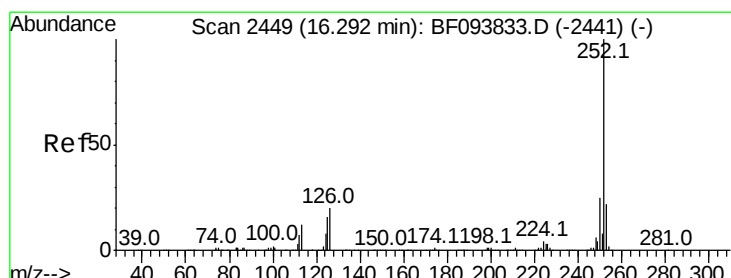
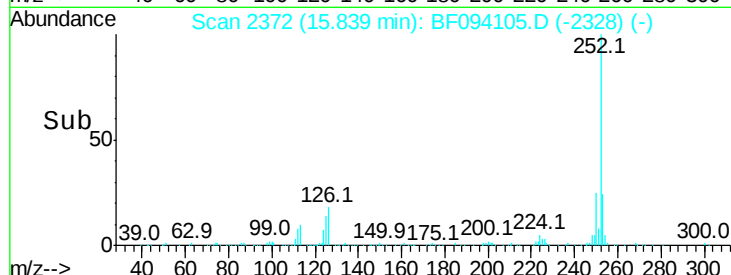
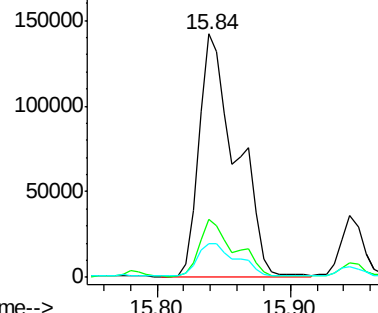
#88
Benzo(k)fluoranthene
Concen: 15.05 ng
RT: 15.84 min Scan# 2372
Delta R.T. -0.04 min
Lab File: BF094105.D
Acq: 31 Mar 2017 19:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	13.8	13.1	19.7

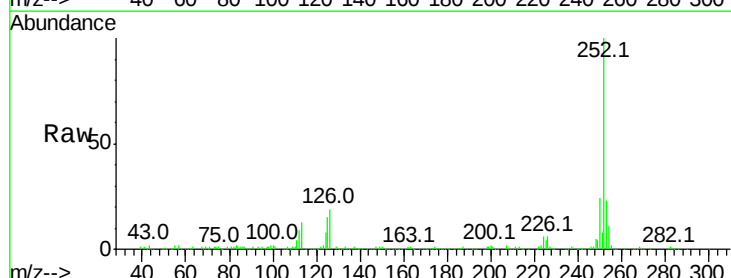


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

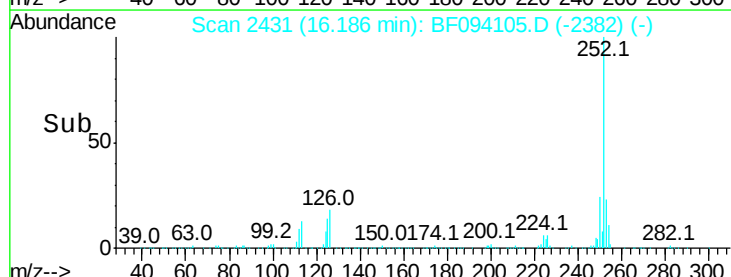
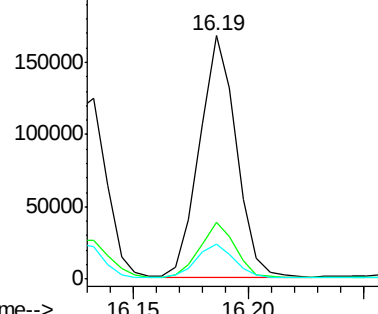


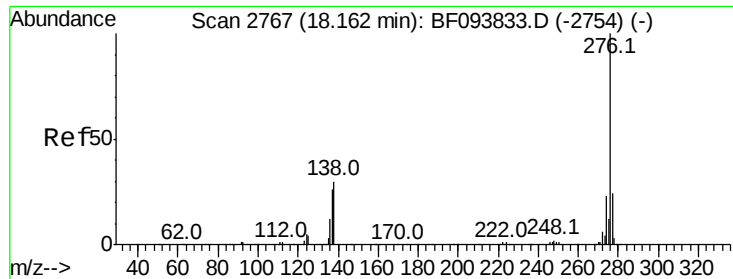
#89
Benzo(a)pyrene
Concen: 10.77 ng
RT: 16.19 min Scan# 2431
Delta R.T. -0.01 min
Lab File: BF094105.D
Acq: 31 Mar 2017 19:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.5	26.3
125	14.6	11.0	16.4



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





#91

Benzo(a,h,i)perylene

Concen: 10.22 ng

RT: 17.99 min Scan# 2737

Delta R.T. -0.02 min

Lab File: BF094105.D

Acq: 31 Mar 2017 19:25

Instrument :

BNA_F

ClientSampleId :

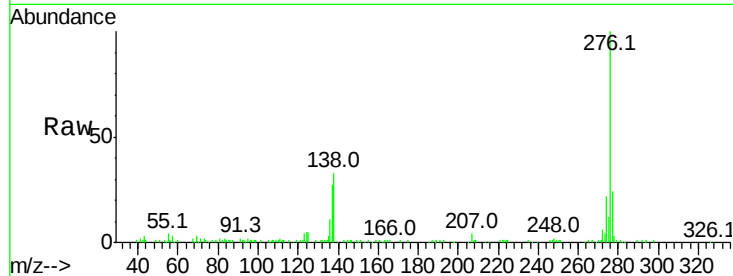
Tot Ion:276 Resp: 150042

Ion Ratio Lower Upper

276 100

277 23.8 18.6 28.0

138 32.7 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

