

Data Path : Z:\HPCHEM1\BNA F\Data\BF032917\
 Data File : BF094057.D
 Acq On : 30 Mar 2017 12:24
 Operator : SJ/MA
 Sample : I2443-03DL 5X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 30 13:09:22 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	152965	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	597549	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	250233	20.00	ng	-0.02
63) Phenanthrene-d10	11.40	188	388000	20.00	ng	-0.02
75) Chrysene-d12	14.66	240	306325	20.00	ng	-0.02
86) Perylene-d12	16.29	264	221854	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.46	112	188801	20.85	ng	-0.01
7) Phenol-d6	5.53	99	238452	21.28	ng	-0.02
23) Nitrobenzene-d5	6.57	82	87712	8.38	ng	-0.04
41) 2,4,6-Tribromophenol	10.55	330	25896	13.10	ng	-0.03
44) 2-Fluorobiphenyl	8.75	172	269957	16.45	ng	-0.03
78) Terphenyl-d14	13.37	244	152019	11.12	ng	-0.03

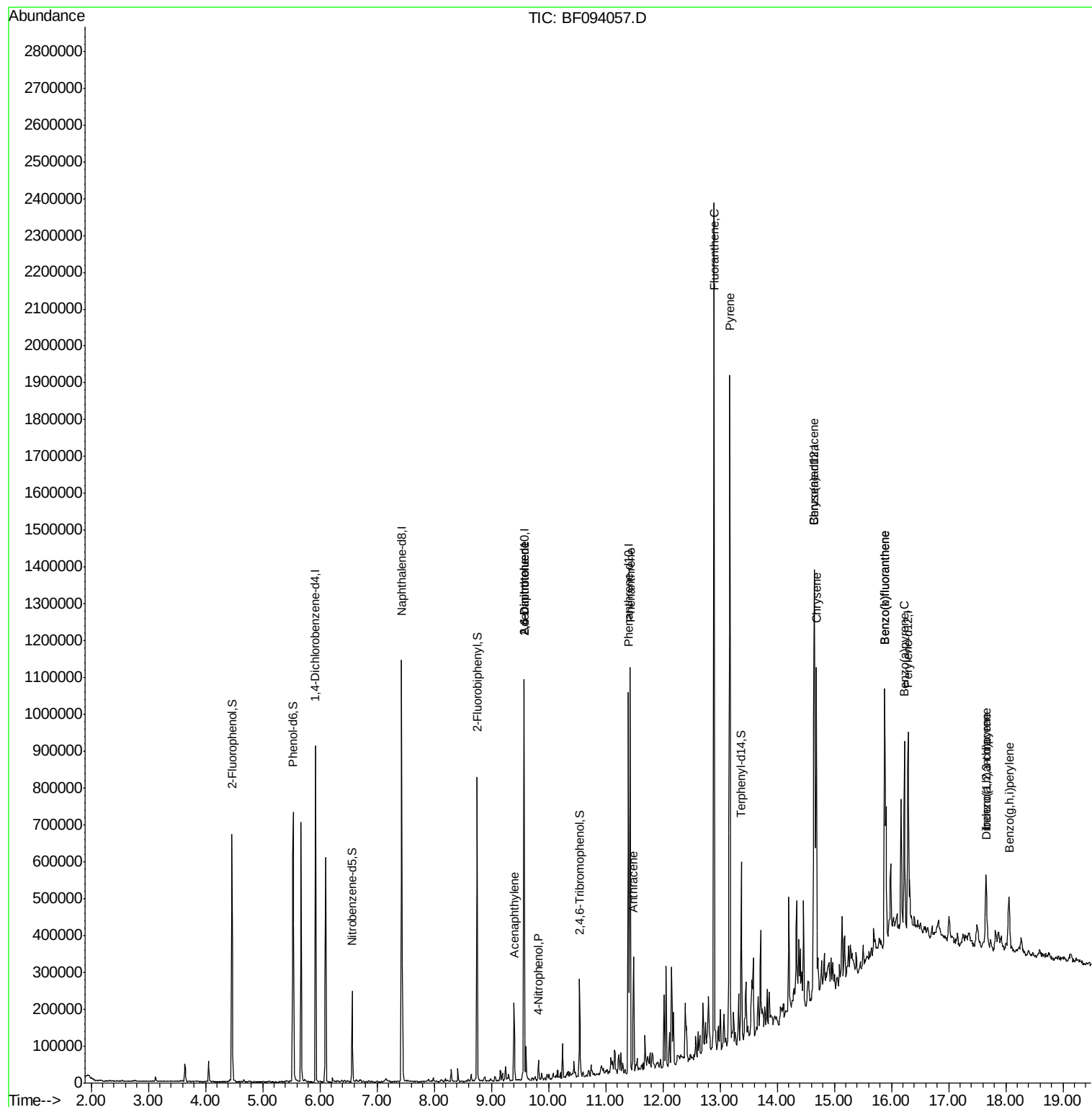
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.40	152	95344	3.63	ng	97
50) 2,6-Dinitrotoluene	9.57	165	32805	8.05	ng	# 34
55) 4-Nitrophenol	9.82	139	7718	2.06	ng	# 25
56) 2,4-Dinitrotoluene	9.57	165	32806	6.40	ng	# 33
70) Phenanthrene	11.43	178	425287	19.70	ng	98
71) Anthracene	11.49	178	131519	5.92	ng	97
74) Fluoranthene	12.90	202	1032626	46.72	ng	99
77) Pyrene	13.17	202	836578	37.63	ng	99
80) Benzo(a)anthracene	14.64	228	392068	21.95	ng	96
82) Chrysene	14.69	228	371940	22.44	ng	98
85) Indeno(1,2,3-cd)pyrene	17.65	276	119065	8.29	ng	94
87) Benzo(b)fluoranthene	15.88	252	517697	38.07	ng	98
88) Benzo(k)fluoranthene	15.88	252	517697	38.91	ng	97
89) Benzo(a)pyrene	16.23	252	207798	16.59	ng	98
90) Dibenzo(a,h)anthracene	17.67	278	31898	3.01	ng	# 81
91) Benzo(g,h,i)perylene	18.06	276	100119	9.37	ng	100

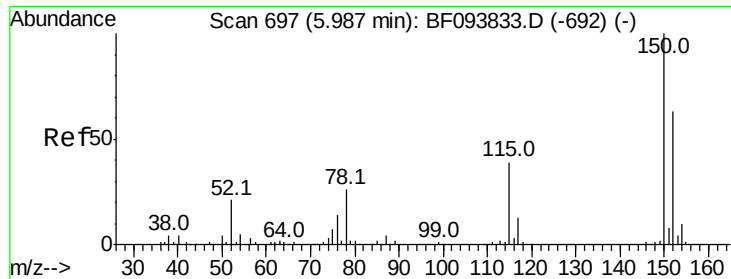
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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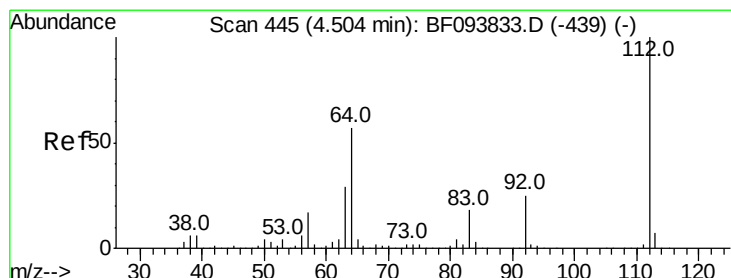
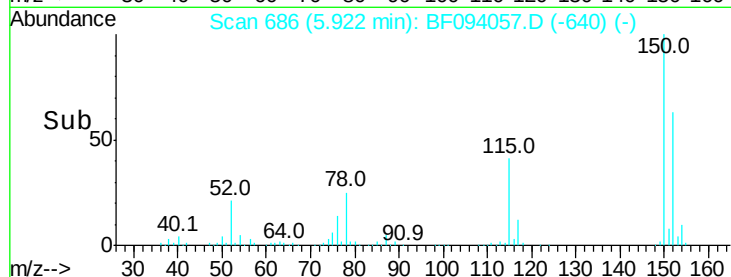
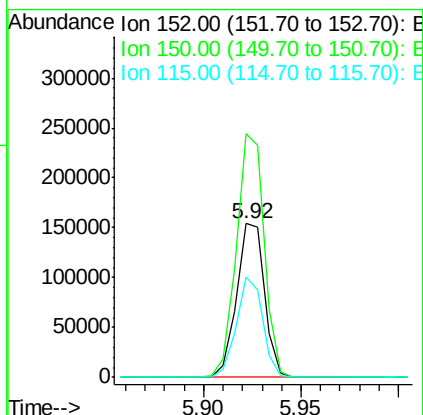
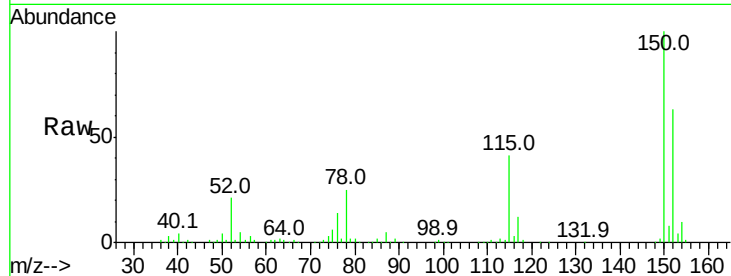


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.92 min Scan# 686
Delta R.T. -0.03 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Instrument :
BNA_F
ClientSampleId :

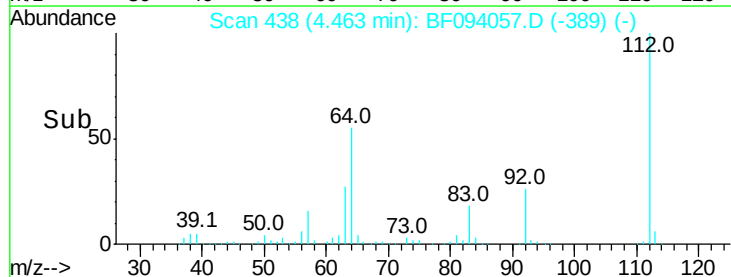
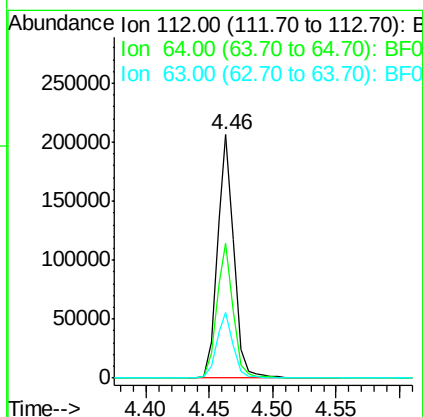
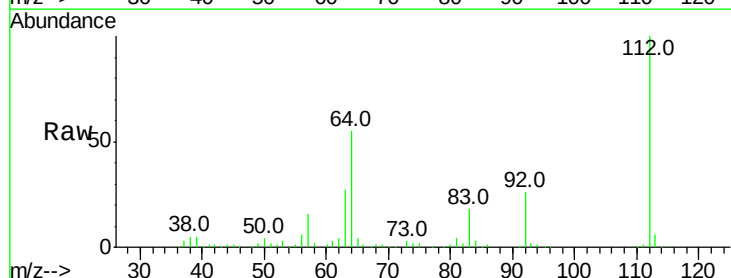
Tot Ion:152 Resp: 152965
Ion Ratio Lower Upper
152 100
150 158.7 126.2 189.2
115 65.6 52.2 78.2

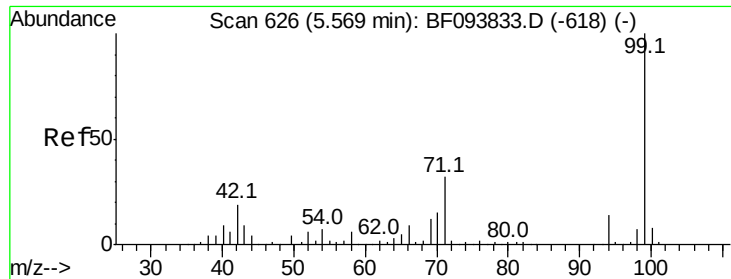


#5

2-Fluorophenol
Concen: 20.85 ng
RT: 4.46 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Tgt Ion:112 Resp: 188801
Ion Ratio Lower Upper
112 100
64 55.1 46.0 69.0
63 26.8 23.4 35.0





#7

Phenol-d6

Concen: 21.28 ng

RT: 5.53 min Scan# 620

Delta R.T. -0.02 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Instrument :

BNA_F

ClientSampleId :

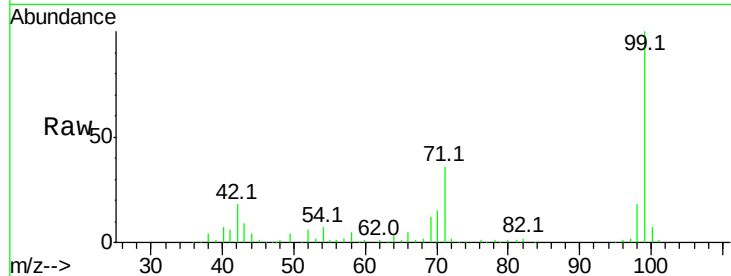
Tot Ion: 99 Resp: 238452

Ion Ratio Lower Upper

99 100

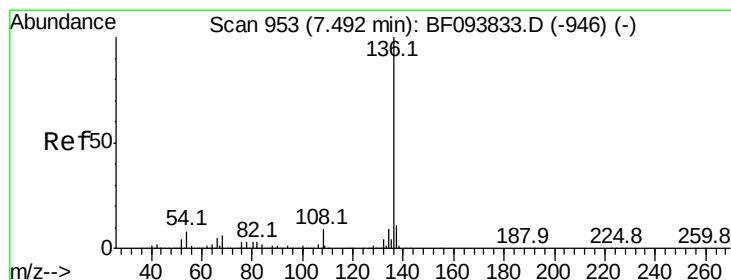
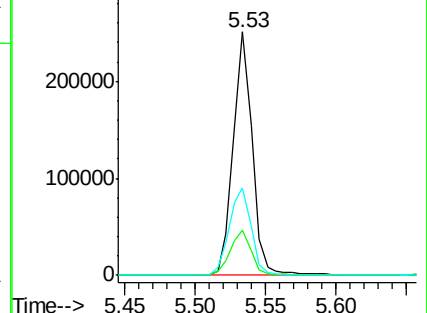
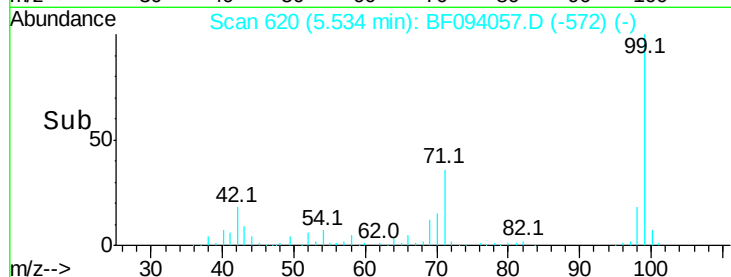
42 18.4 13.5 20.3

71 35.9 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

5.53



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Tgt Ion: 136 Resp: 597549

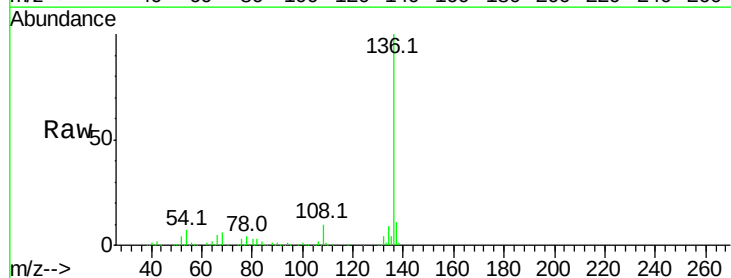
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

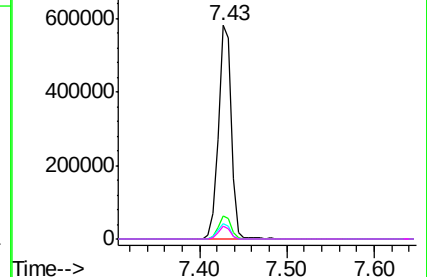
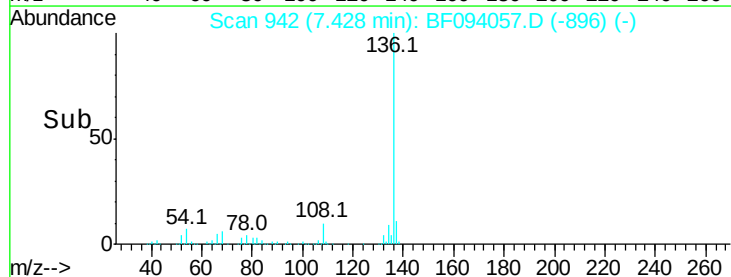
54 7.5 4.9 7.3#

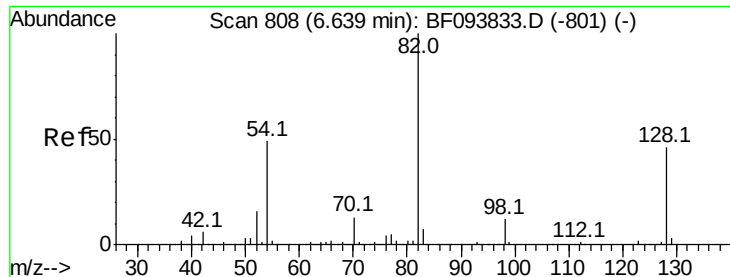
68 6.0 4.1 6.1



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

7.43





#23

Nitrobenzene-d5

Concen: 8.38 ng

RT: 6.57 min Scan# 796

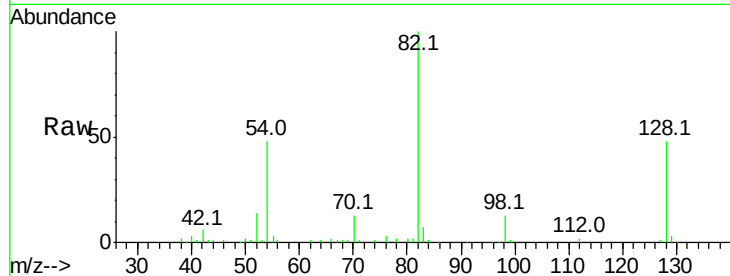
Delta R.T. -0.04 min

Lab File: BF094057.D

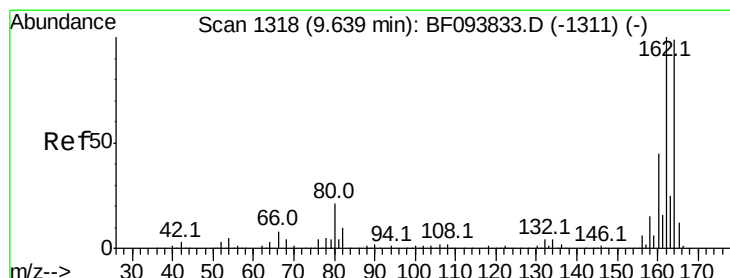
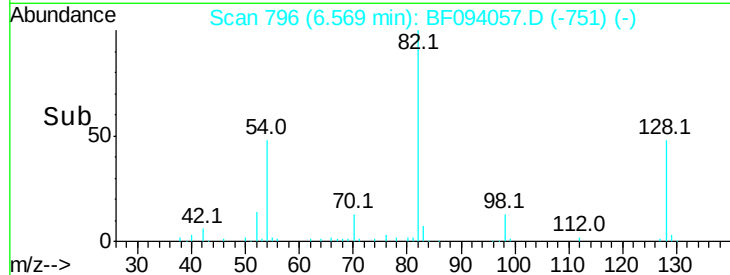
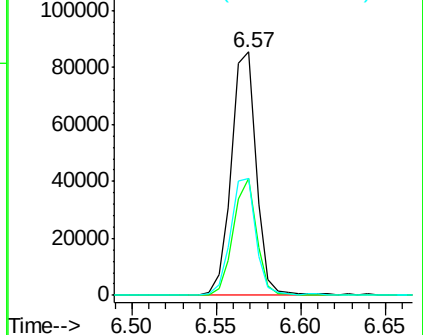
Acq: 30 Mar 2017 12:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	82	Resp:	87712
Ion	Ratio	Lower	Upper
82	100		
128	48.1	34.0	51.0
54	47.9	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

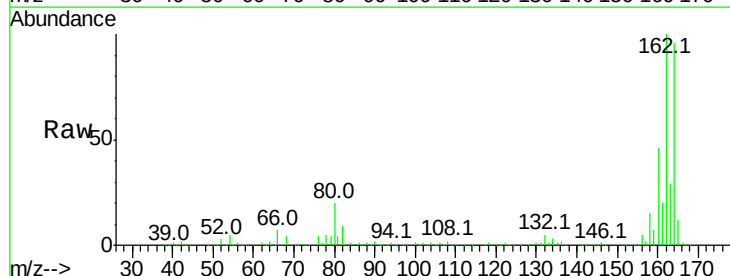
RT: 9.57 min Scan# 1307

Delta R.T. -0.02 min

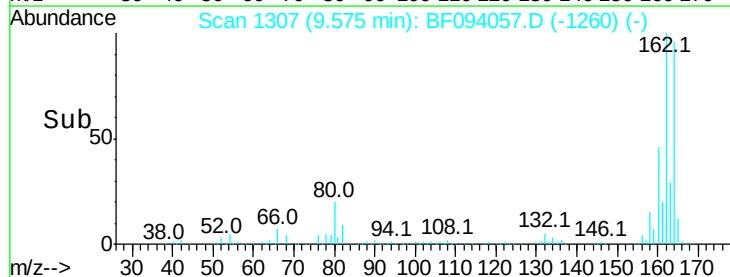
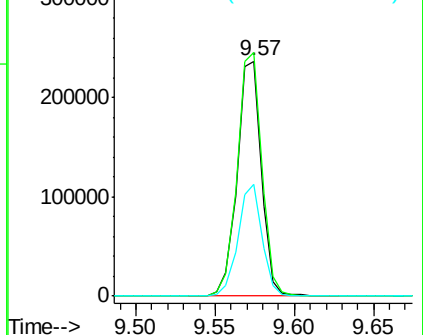
Lab File: BF094057.D

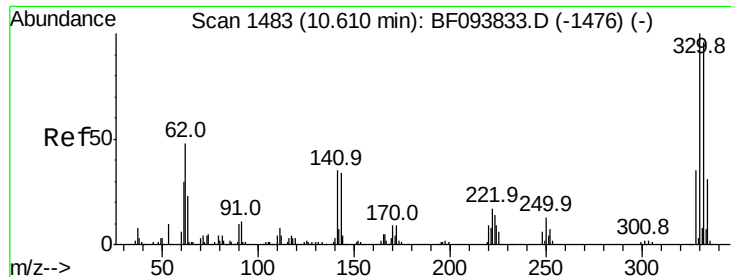
Acq: 30 Mar 2017 12:24

Tgt Ion:	164	Resp:	250233
Ion	Ratio	Lower	Upper
164	100		
162	103.7	82.6	123.8
160	47.4	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

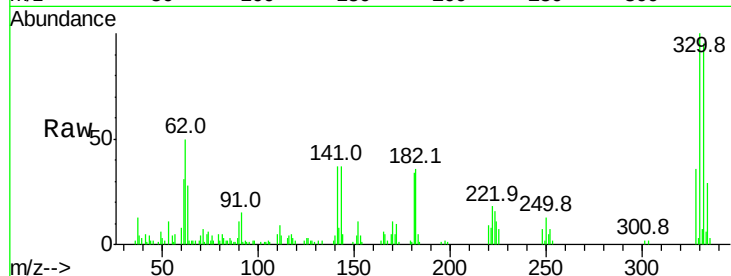




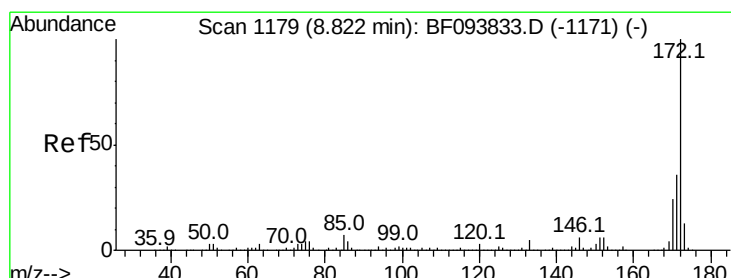
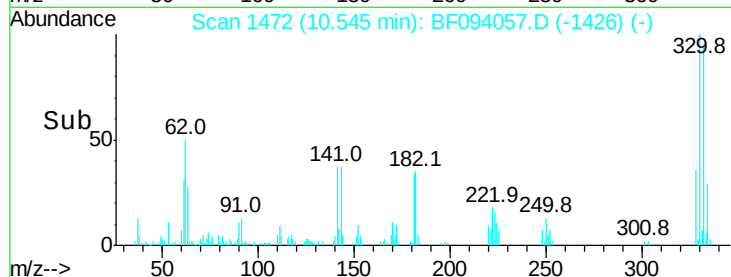
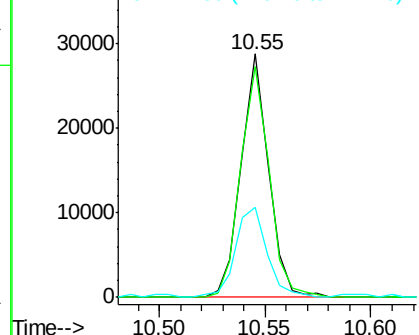
#41
 2,4,6-Tribromophenol
 Concen: 13.10 ng
 RT: 10.55 min Scan# 1472
 Delta R.T. -0.03 min
 Lab File: BF094057.D
 Acq: 30 Mar 2017 12:24

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	98.6	76.6	115.0
141	42.6	31.4	47.2

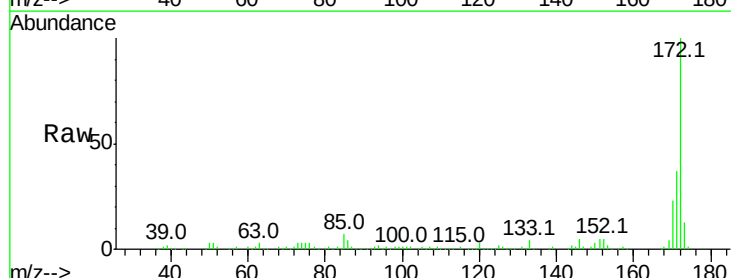


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

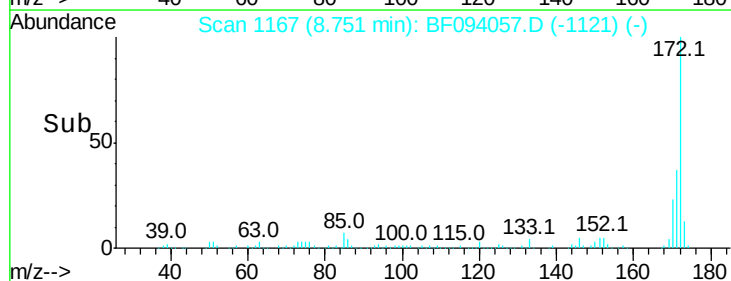
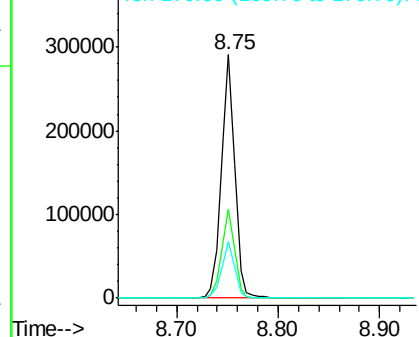


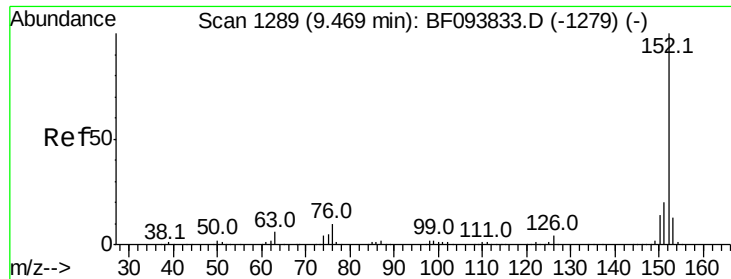
#44
 2-Fluorobiphenyl
 Concen: 16.45 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094057.D
 Acq: 30 Mar 2017 12:24

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.6	44.4
170	23.3	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





#48

Acenaphthylene

Concen: 3.63 ng

RT: 9.40 min Scan# 1277

Delta R.T. -0.03 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Instrument :

BNA_F

ClientSampled :

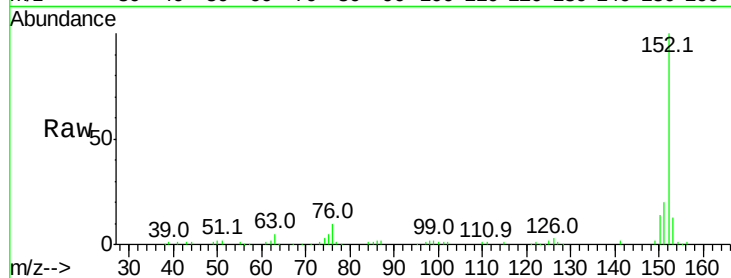
Tot Ion:152 Resp: 95344

Ion Ratio Lower Upper

152 100

151 19.6 16.8 25.2

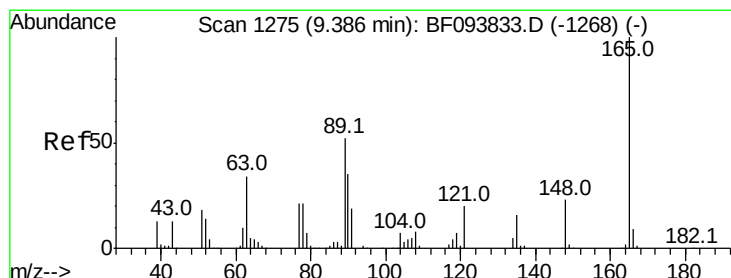
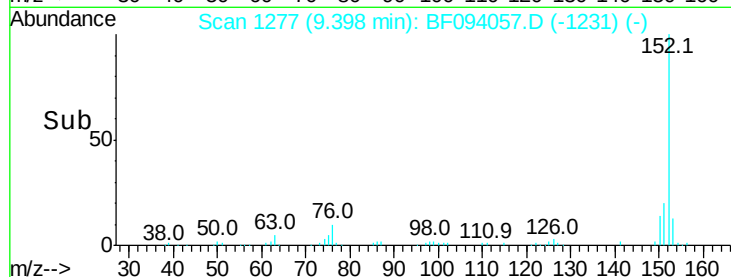
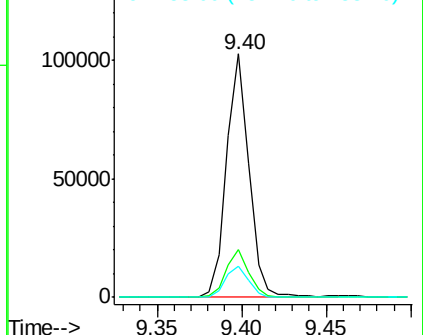
153 12.6 10.8 16.2



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



#50

2,6-Dinitrotoluene

Concen: 8.05 ng

RT: 9.57 min Scan# 1307

Delta R.T. 0.22 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

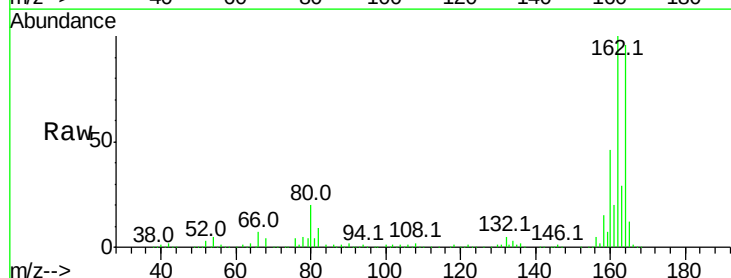
Tgt Ion:165 Resp: 32805

Ion Ratio Lower Upper

165 100

63 1.7 34.3 51.5#

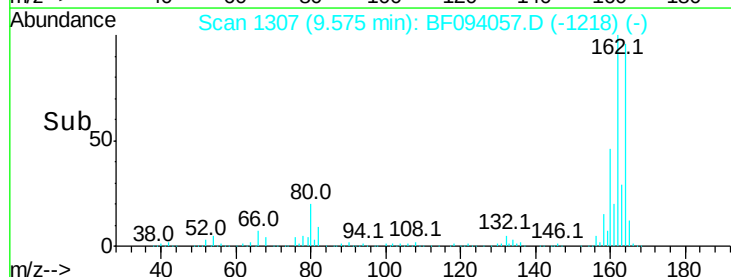
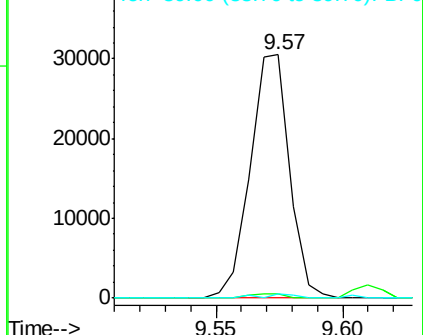
89 1.5 37.1 55.7#

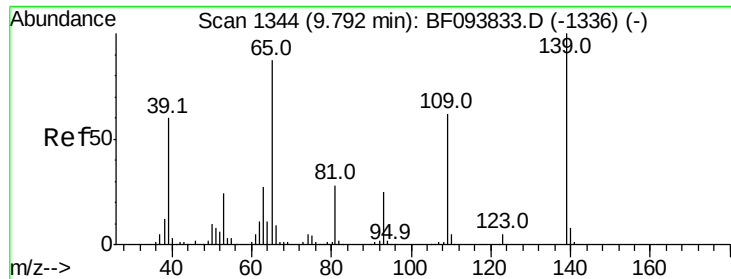


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

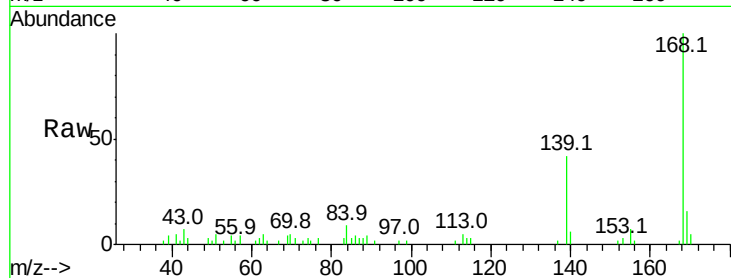




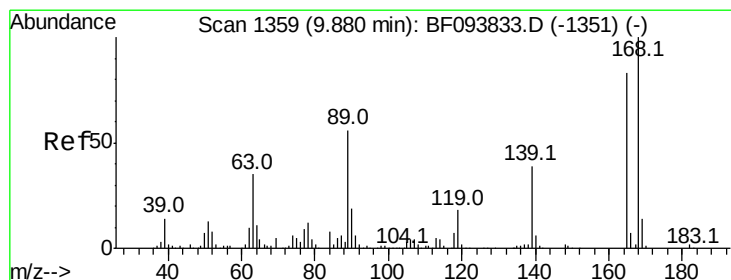
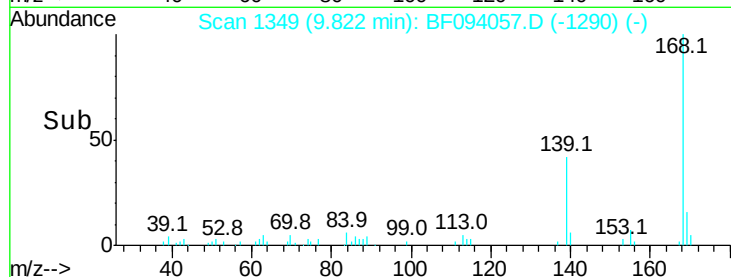
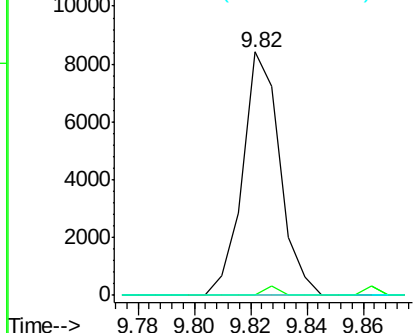
#55
4-Nitrophenol
Concen: 2.06 ng
RT: 9.82 min Scan# 1349
Delta R.T. 0.05 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Instrument :
BNA_F
ClientSampled :

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

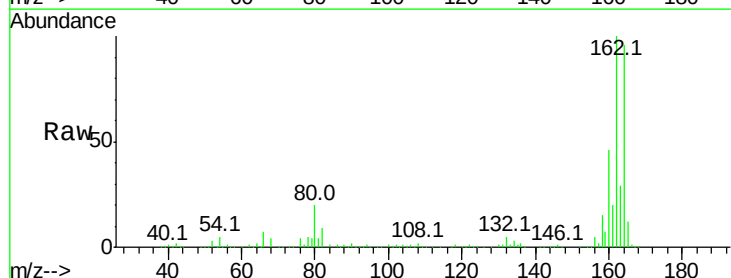


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

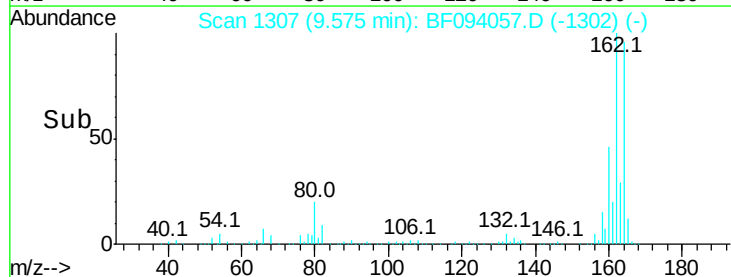
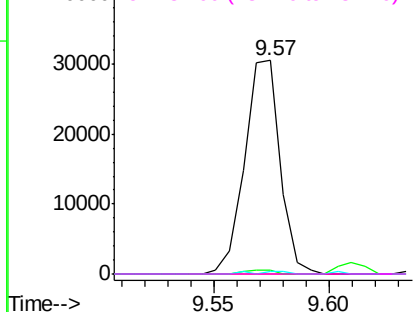


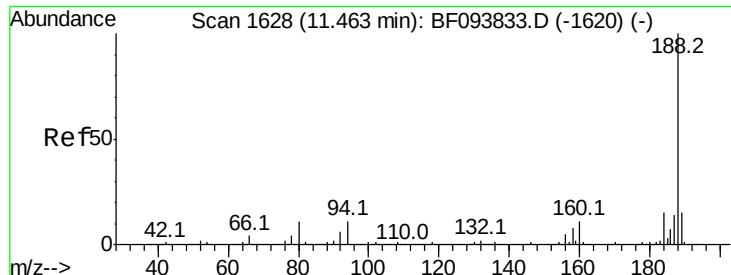
#56
2,4-Dinitrotoluene
Concen: 6.40 ng
RT: 9.57 min Scan# 1307
Delta R.T. -0.27 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	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

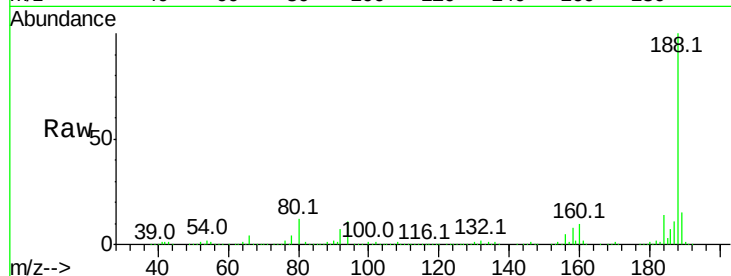




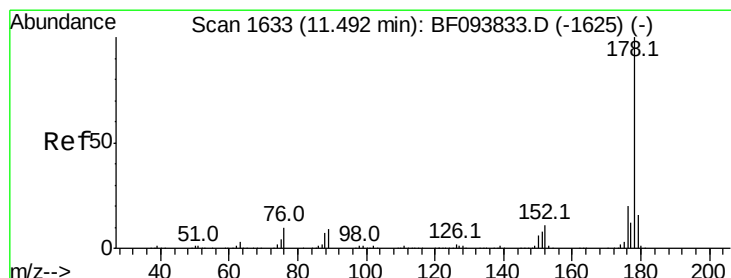
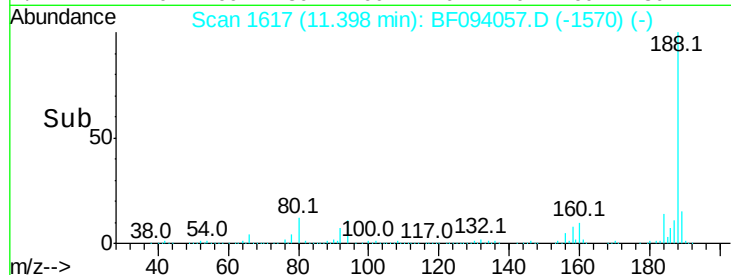
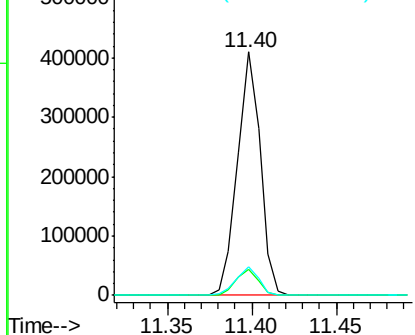
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.40 min Scan# 1617
Delta R.T. -0.02 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 388000
Ion Ratio Lower Upper
188 100
94 10.8 9.4 14.2
80 11.5 10.2 15.2

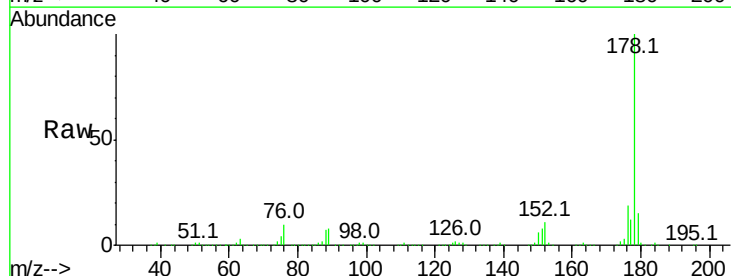


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

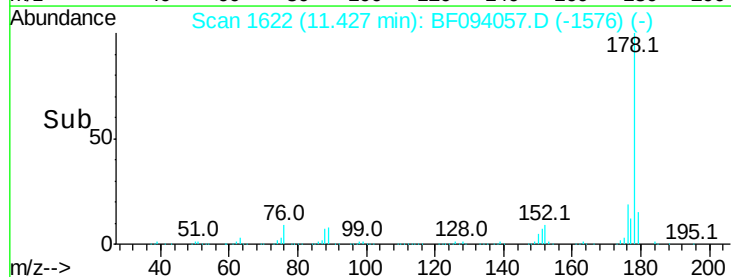
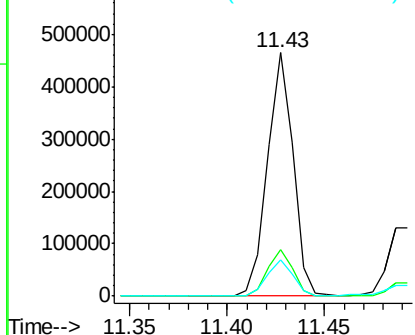


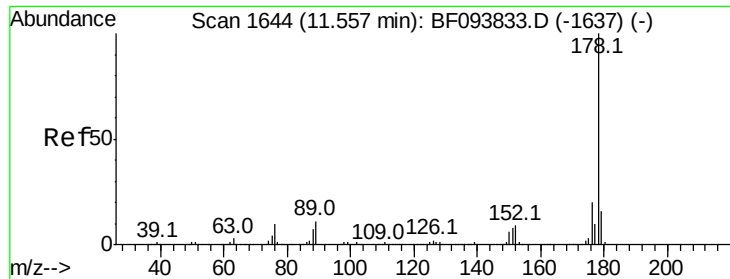
#70
Phenanthrene
Concen: 19.70 ng
RT: 11.43 min Scan# 1622
Delta R.T. -0.03 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Tgt Ion:178 Resp: 425287
Ion Ratio Lower Upper
178 100
176 19.0 16.2 24.4
179 15.1 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

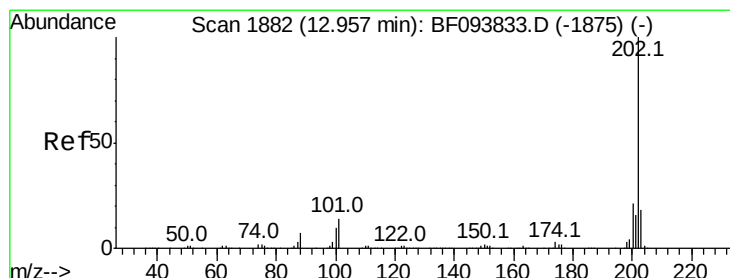
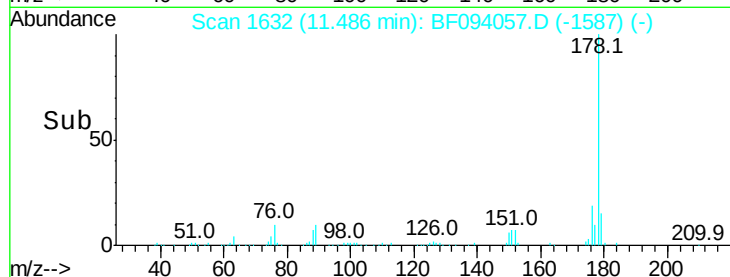
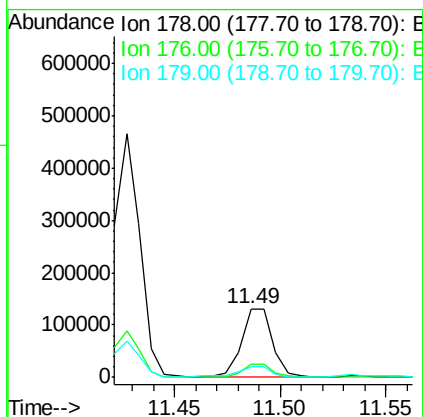
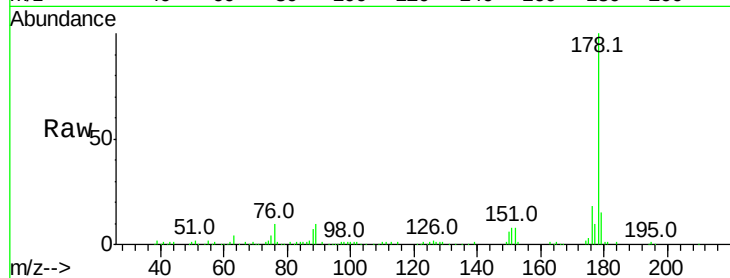




#71
 Anthracene
 Concen: 5.92 ng
 RT: 11.49 min Scan# 1632
 Delta R.T. -0.04 min
 Lab File: BF094057.D
 Acq: 30 Mar 2017 12:24

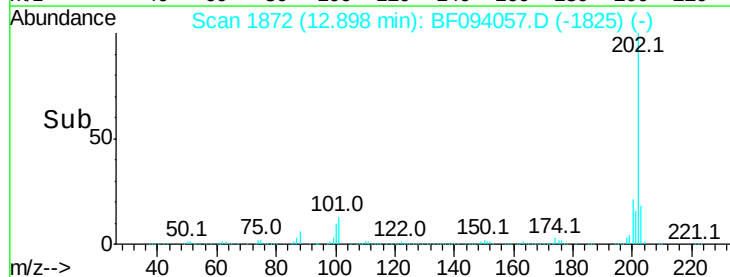
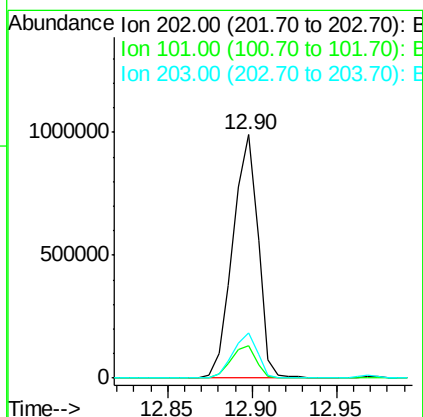
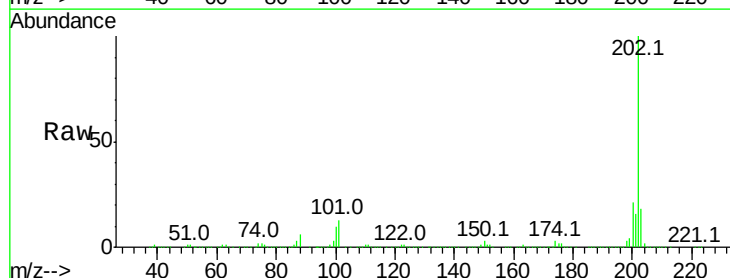
Instrument :
 BNA_F
 ClientSampleId :

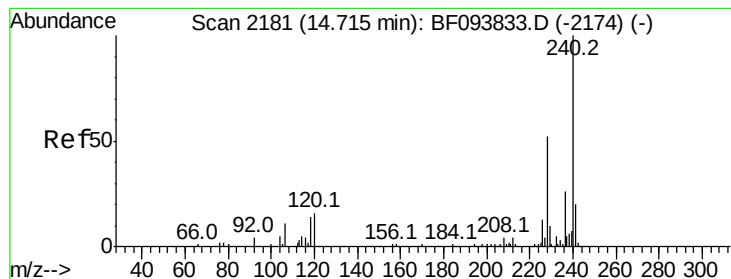
Tot Ion:178 Resp: 131519
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.8 23.8
 179 15.0 12.7 19.1



#74
 Fluoranthene
 Concen: 46.72 ng
 RT: 12.90 min Scan# 1872
 Delta R.T. -0.02 min
 Lab File: BF094057.D
 Acq: 30 Mar 2017 12:24

Tgt Ion:202 Resp: 1032626
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 33.2
 203 18.4 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.66 min Scan# 2171

Delta R.T. -0.02 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Instrument :

BNA_F

ClientSampleId :

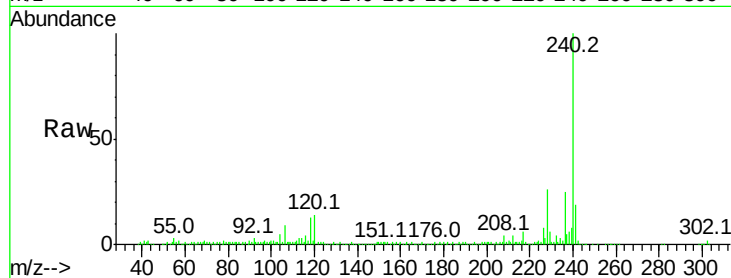
Tot Ion:240 Resp: 306325

Ion Ratio Lower Upper

240 100

120 14.1 5.8 8.8#

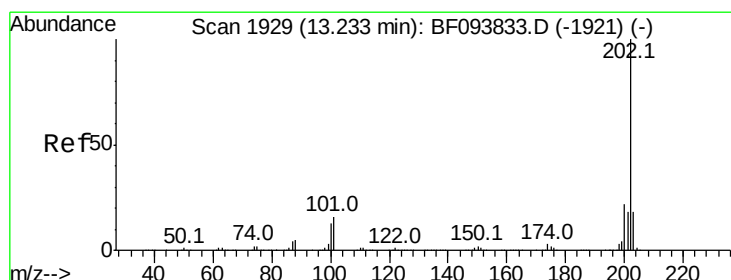
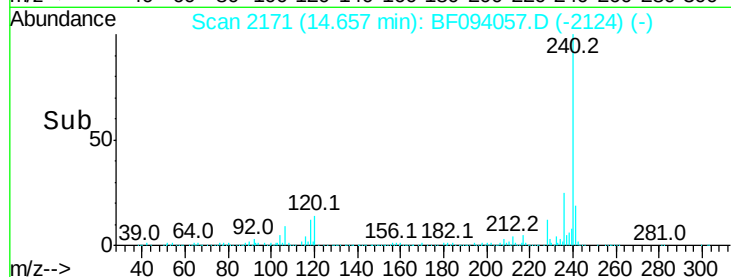
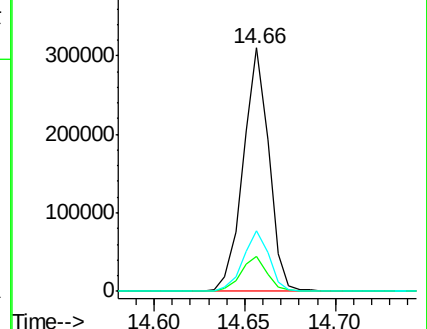
236 24.7 20.5 30.7



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: 37.63 ng

RT: 13.17 min Scan# 1919

Delta R.T. -0.02 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

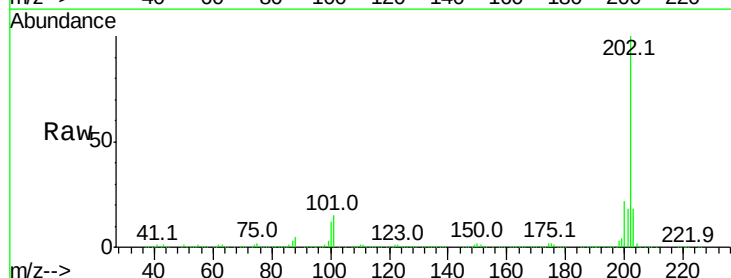
Tgt Ion:202 Resp: 836578

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

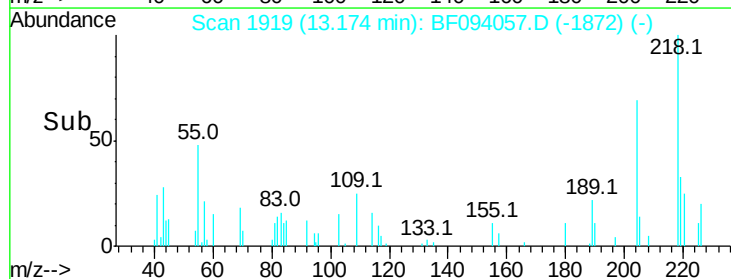
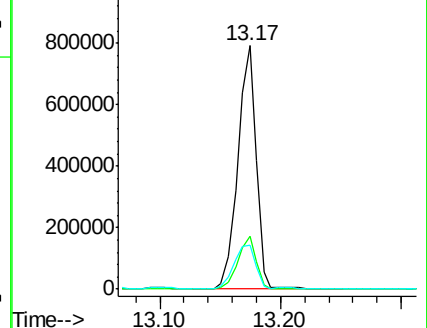
203 18.2 14.4 21.6

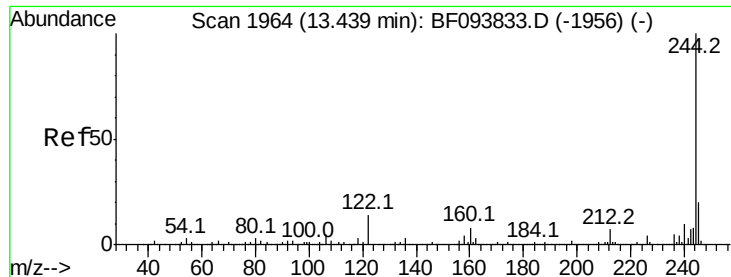


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 11.12 ng

RT: 13.37 min Scan# 1953

Delta R.T. -0.03 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Instrument :

BNA_F

ClientSampleId :

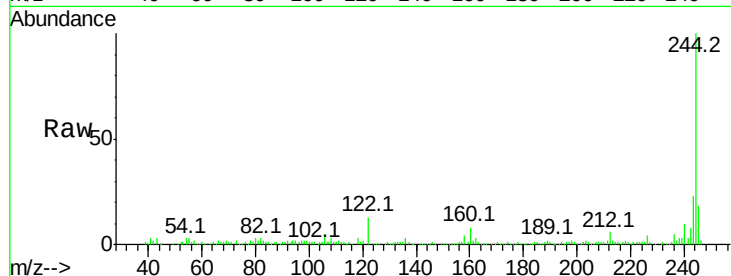
Tot Ion:244 Resp: 152019

Ion Ratio Lower Upper

244 100

212 6.4 6.0 9.0

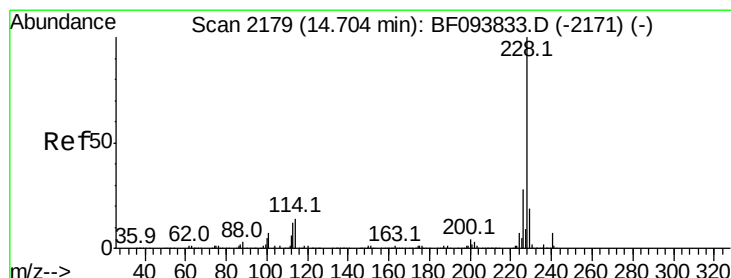
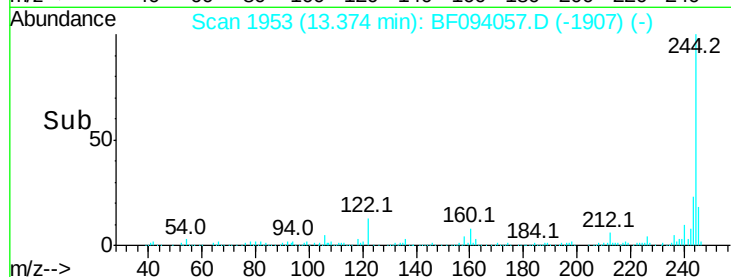
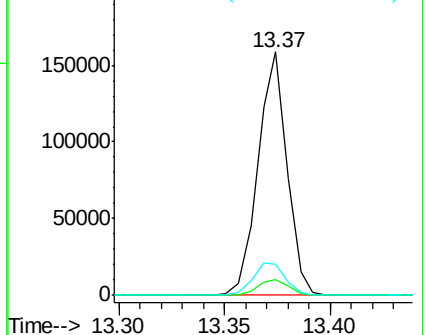
122 13.0 10.3 15.5



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: 21.95 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

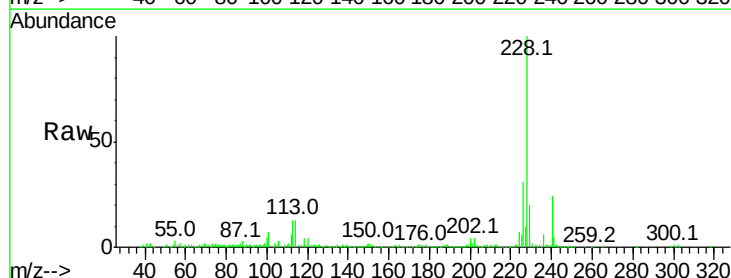
Tgt Ion:228 Resp: 392068

Ion Ratio Lower Upper

228 100

226 31.5 22.6 33.8

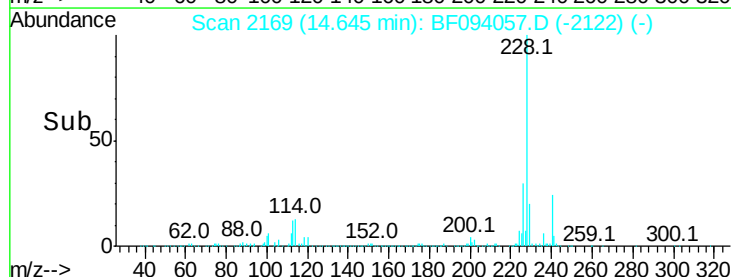
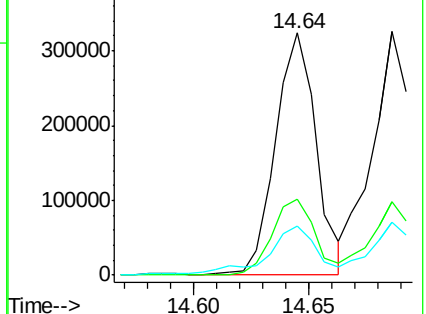
229 20.1 16.3 24.5

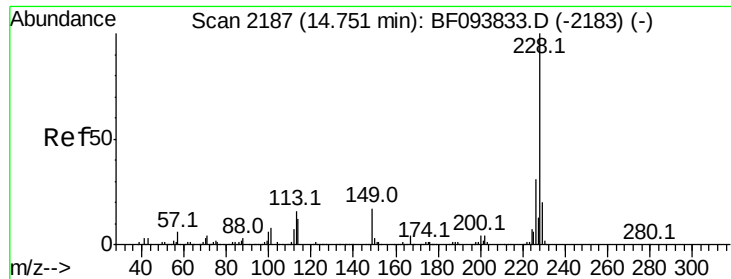


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.44 ng

RT: 14.69 min Scan# 2176

Delta R.T. -0.03 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Instrument :

BNA_F

ClientSampleId :

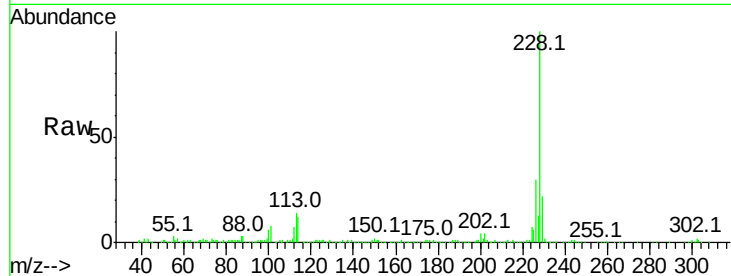
Tot Ion:228 Resp: 371940

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

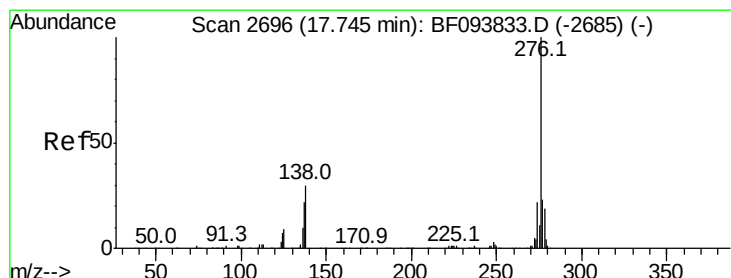
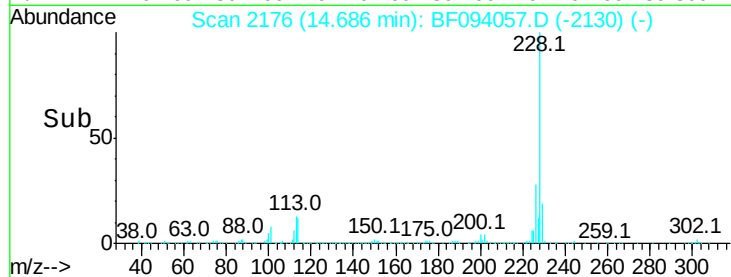
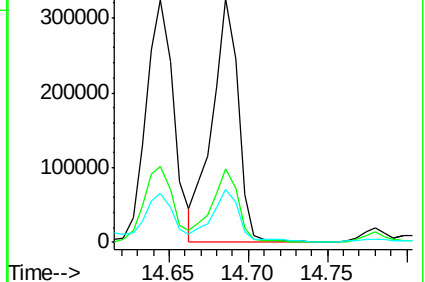
229 21.5 15.8 23.6



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: 8.29 ng

RT: 17.65 min Scan# 2680

Delta R.T. -0.04 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

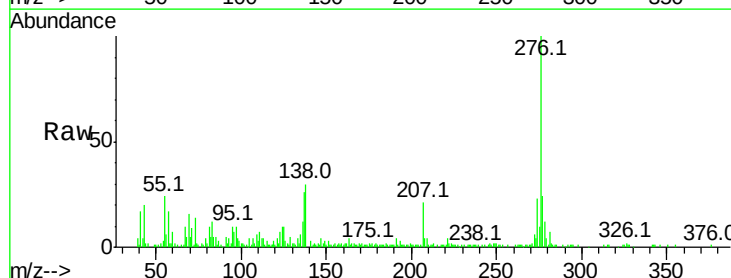
Tgt Ion:276 Resp: 119065

Ion Ratio Lower Upper

276 100

138 31.2 27.8 41.6

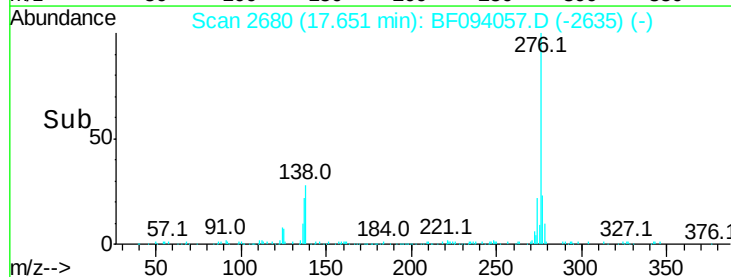
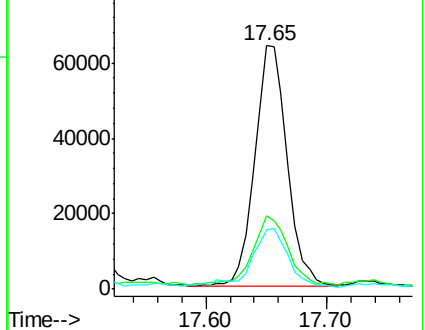
277 27.9 20.2 30.4

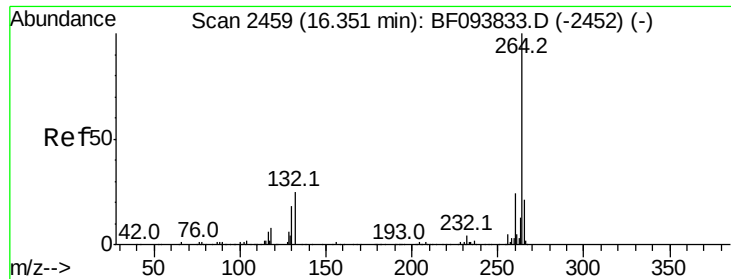


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

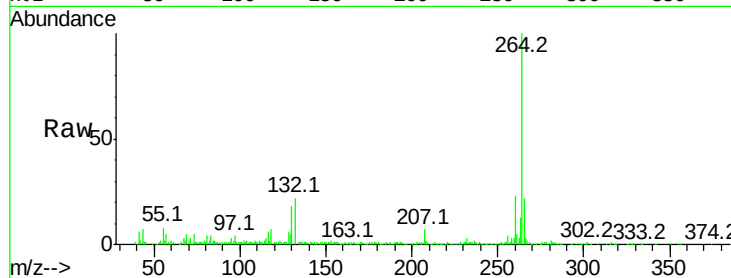




#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.29 min Scan# 2449
Delta R.T. -0.02 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	21.6	17.2	25.8

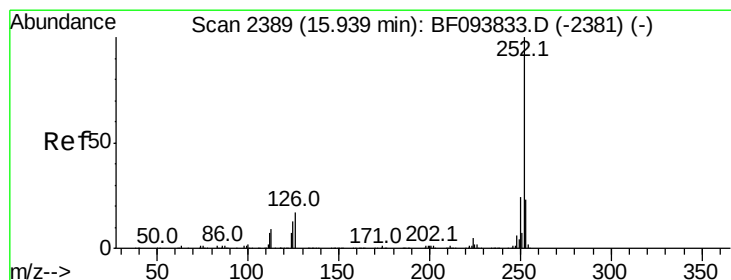
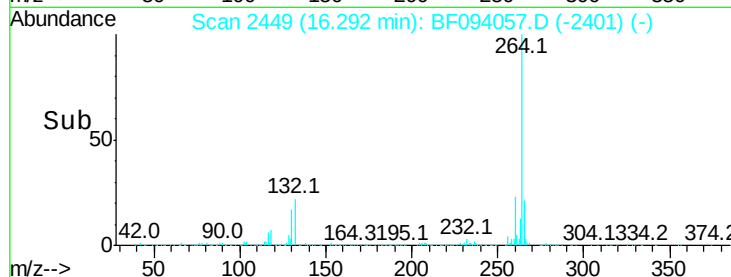
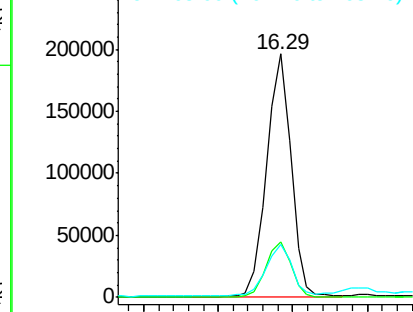


Abundance

Ion 264.00 (263.70 to 264.70): E

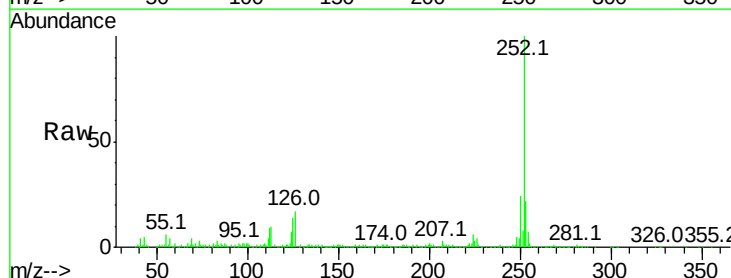
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 38.07 ng
RT: 15.88 min Scan# 2379
Delta R.T. -0.02 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.1	27.1
125	14.0	9.8	14.8

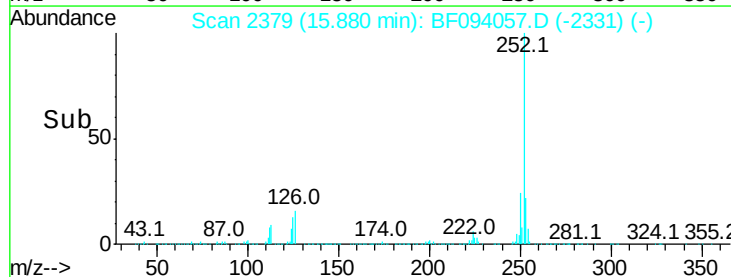
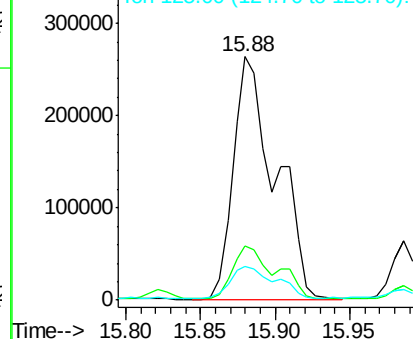


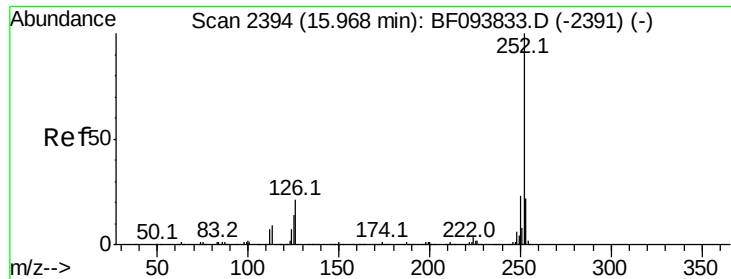
Abundance

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

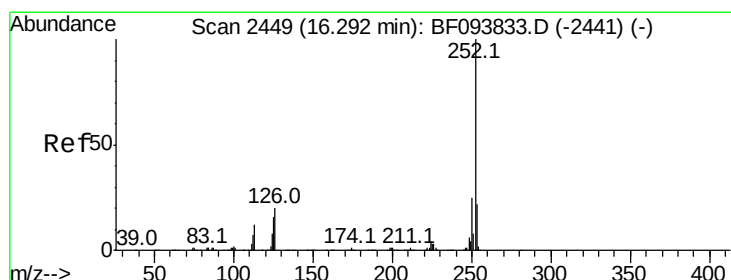
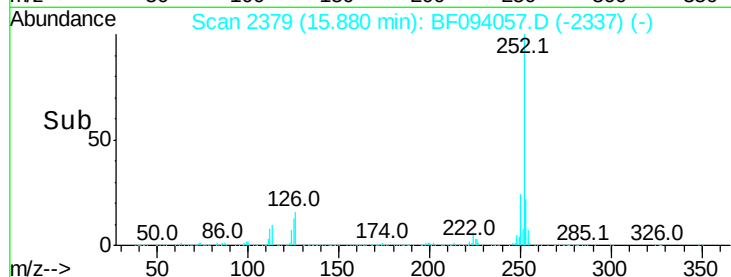
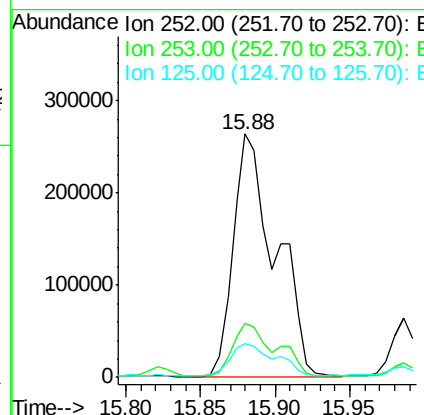
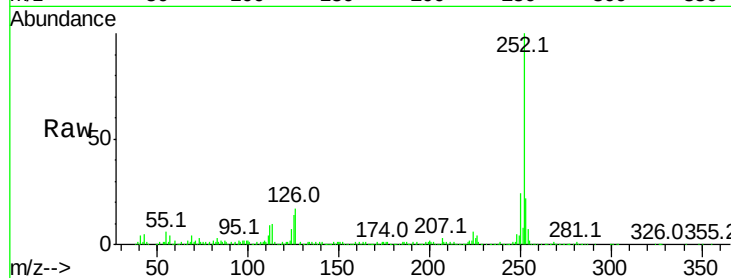




#88
Benzo(k)fluoranthene
Concen: 38.91 ng
RT: 15.88 min Scan# 2379
Delta R.T. -0.05 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

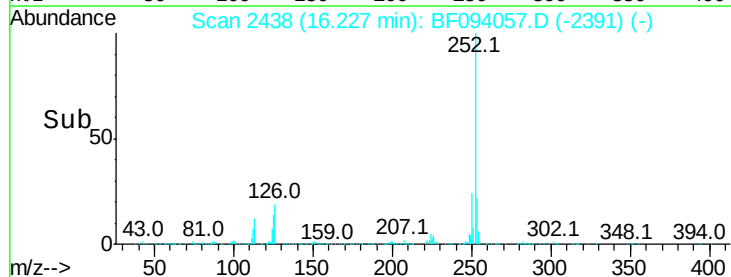
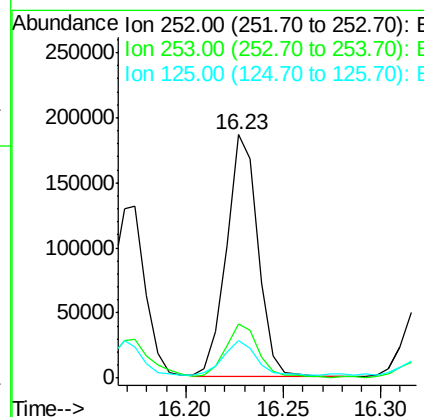
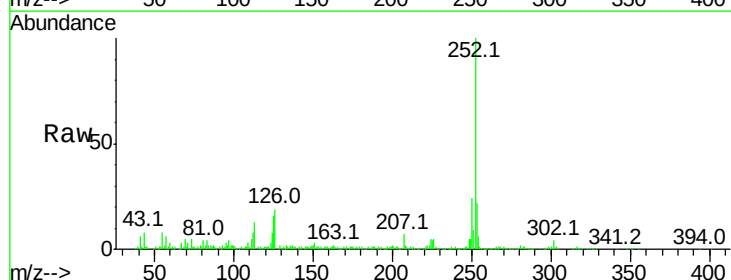
Instrument :
BNA_F
ClientSampleId :

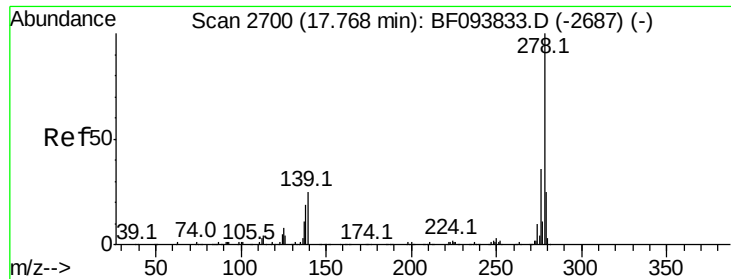
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.4	27.6
125	14.0	13.1	19.7



#89
Benzo(a)pyrene
Concen: 16.59 ng
RT: 16.23 min Scan# 2438
Delta R.T. -0.02 min
Lab File: BF094057.D
Acq: 30 Mar 2017 12:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	15.6	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 3.01 ng

RT: 17.67 min Scan# 2683

Delta R.T. -0.04 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

Instrument :

BNA_F

ClientSampleId :

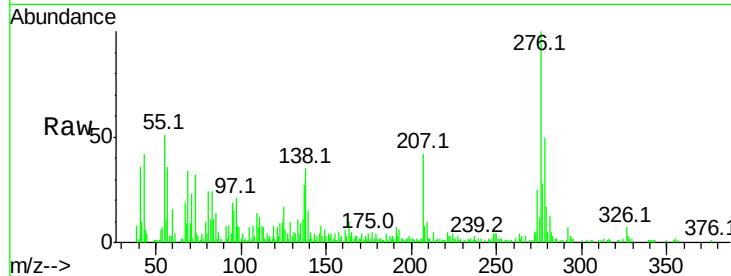
Tot Ion:278 Resp: 31898

Ion Ratio Lower Upper

278 100

139 29.7 16.6 24.8#

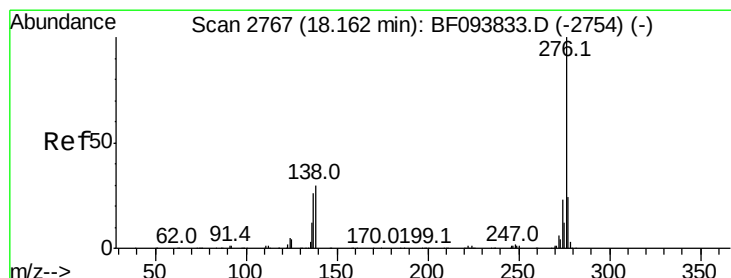
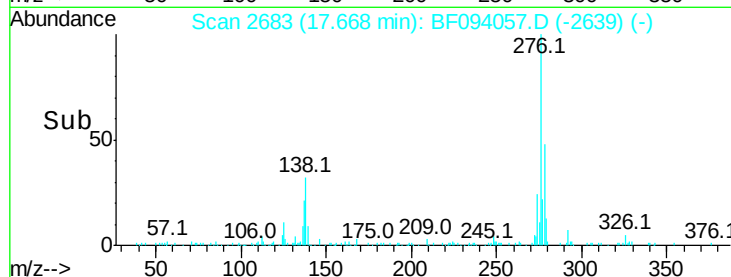
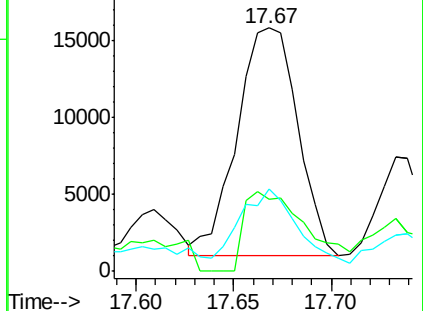
279 33.7 19.3 28.9#



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: 9.37 ng

RT: 18.06 min Scan# 2749

Delta R.T. -0.04 min

Lab File: BF094057.D

Acq: 30 Mar 2017 12:24

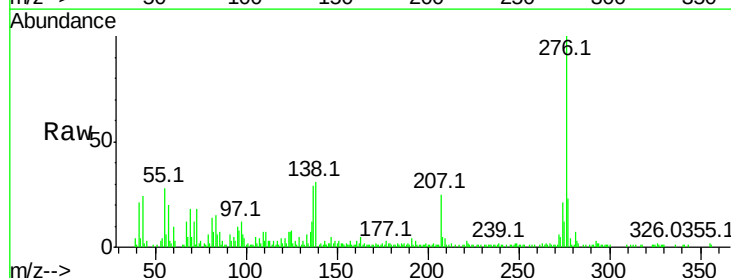
Tgt Ion:276 Resp: 100119

Ion Ratio Lower Upper

276 100

277 23.4 18.6 28.0

138 31.3 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

