

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060717\
 Data File : BF095759.D
 Acq On : 7 Jun 2017 22:11
 Operator : SJ/MA
 Sample : I3479-04 5X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 08 04:09:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.38	152	76862	20.00	ng	-0.02
21) Naphthalene-d8	9.42	136	301310	20.00	ng	-0.02
38) Acenaphthene-d10	12.24	164	120049	20.00	ng	-0.02
63) Phenanthrene-d10	14.63	188	180659	20.00	ng	-0.01
75) Chrysene-d12	18.35	240	148950	20.00	ng	0.00
86) Perylene-d12	20.02	264	109800	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.29	112	80694	16.73	ng	0.00
7) Phenol-d6	6.96	99	102291	17.71	ng	0.00
23) Nitrobenzene-d5	8.30	82	56946	11.74	ng	-0.02
41) 2,4,6-Tribromophenol	13.54	330	16681	15.70	ng	-0.01
44) 2-Fluorobiphenyl	11.19	172	127126	14.74	ng	-0.02
78) Terphenyl-d14	17.00	244	76645	12.77	ng	-0.01

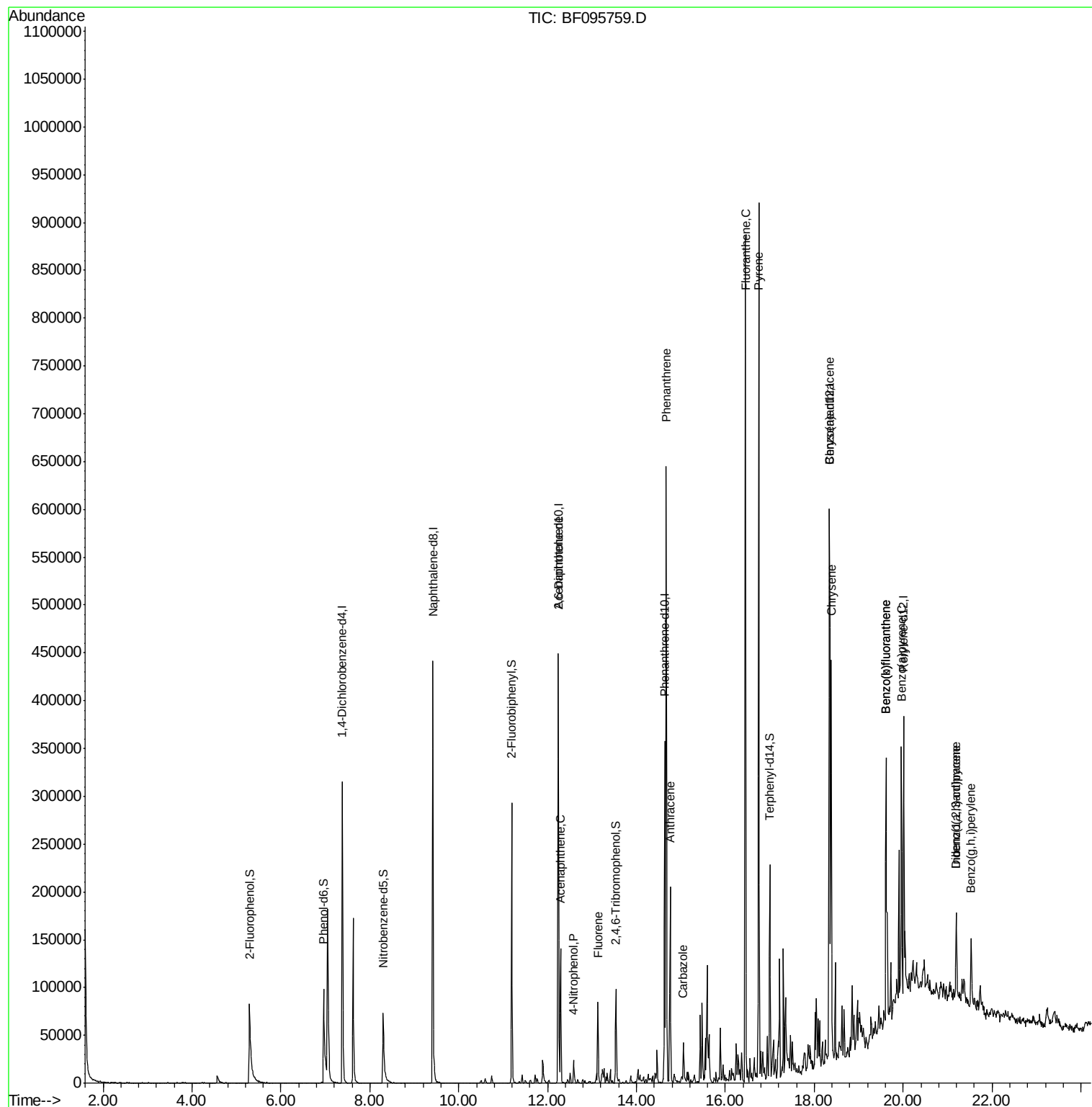
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	12.24	165	14885	7.49	ng	# 31
51) Acenaphthene	12.29	154	40559	5.31	ng	97
55) 4-Nitrophenol	12.59	139	5972	8.79	ng	# 25
57) Fluorene	13.13	166	33505	3.58	ng	94
70) Phenanthrene	14.67	178	336561	32.29	ng	99
71) Anthracene	14.76	178	118062	10.85	ng	98
72) Carbazole	15.06	167	26369	2.49	ng	98
74) Fluoranthene	16.45	202	437923	42.45	ng	97
77) Pyrene	16.75	202	381661	34.34	ng	# 93
80) Benzo(a)anthracene	18.34	228	177353	20.48	ng	99
82) Chrysene	18.38	228	157695	18.22	ng	97
85) Indeno(1,2,3-cd)pyrene	21.20	276	46821	6.32	ng	95
87) Benzo(b)fluoranthene	19.62	252	197044	28.66	ng	# 97
88) Benzo(k)fluoranthene	19.62	252	197044	29.98	ng	99
89) Benzo(a)pyrene	19.96	252	106552	16.86	ng	97
90) Dibenzo(a,h)anthracene	21.19	278	12750	2.38	ng	# 84
91) Benzo(a,h,i)perylene	21.53	276	45562	8.34	ng	99

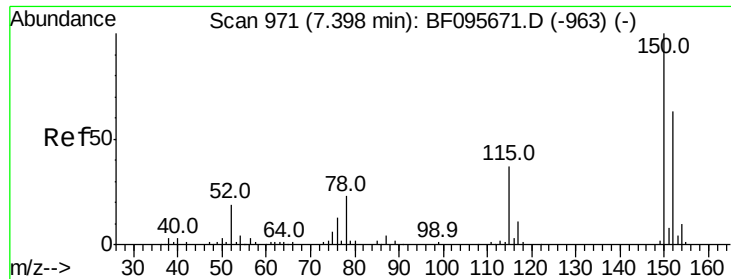
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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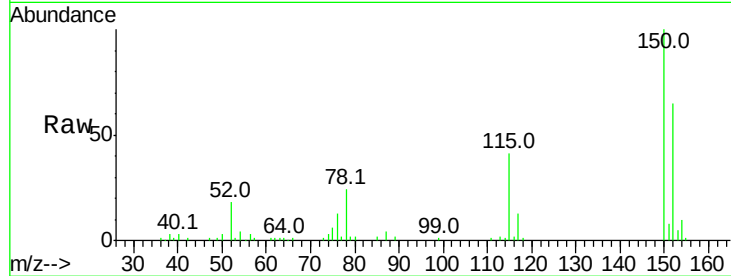


#1

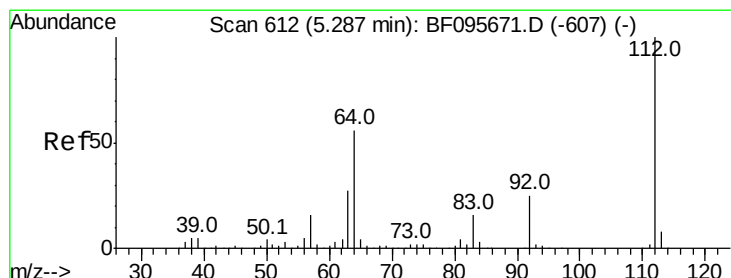
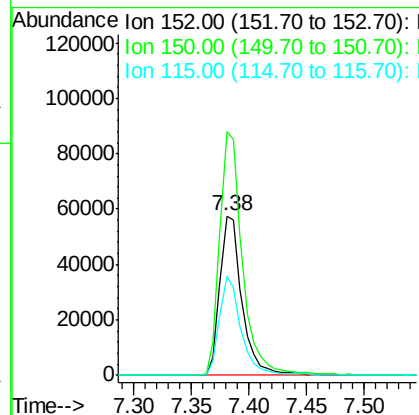
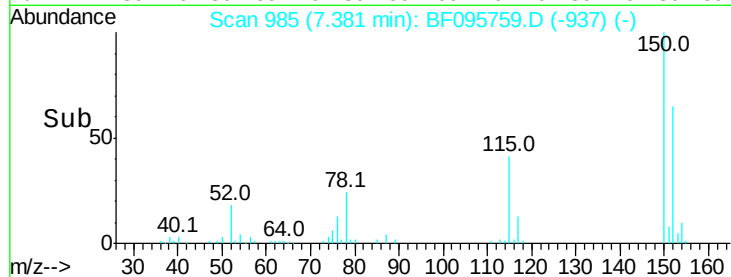
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.38 min Scan# 985
Delta R.T. -0.02 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 76862
Ion Ratio Lower Upper
152 100
150 152.7 126.2 189.2
115 62.2 52.2 78.2



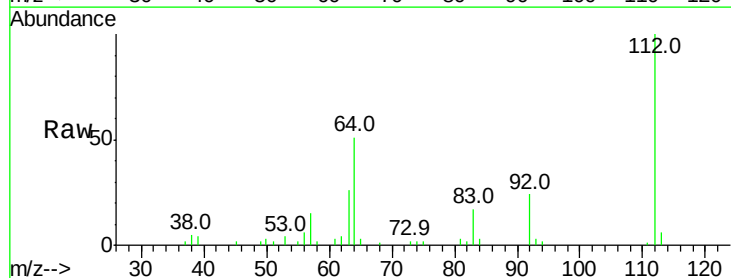
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



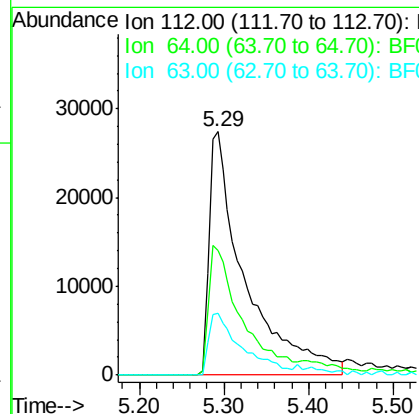
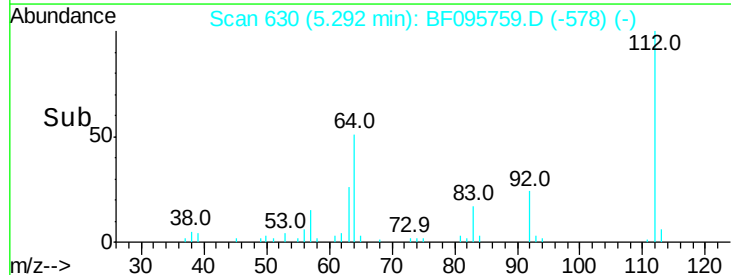
#5

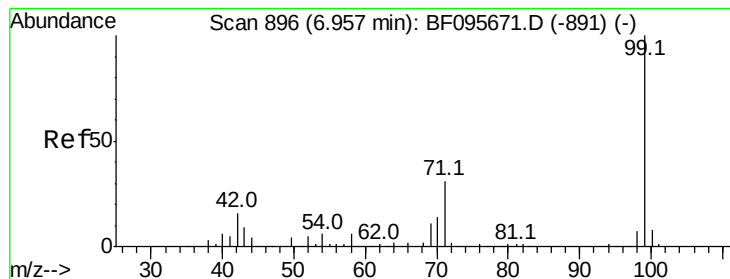
2-Fluorophenol
Concen: 16.73 ng
RT: 5.29 min Scan# 630
Delta R.T. 0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion:112 Resp: 80694
Ion Ratio Lower Upper
112 100
64 51.1 46.0 69.0
63 25.6 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: 17.71 ng

RT: 6.96 min Scan# 913

Delta R.T. -0.00 min

Lab File: BF095759.D

Acq: 7 Jun 2017 22:11

Instrument :

BNA_F

ClientSampleId :

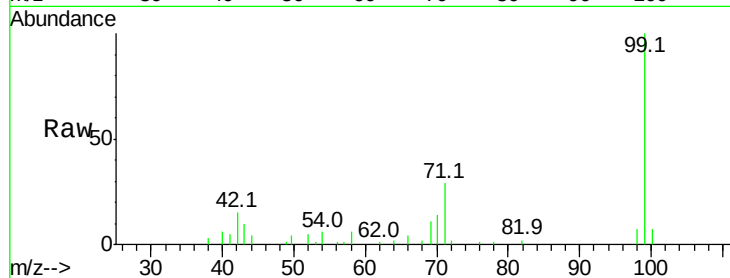
Tot Ion: 99 Resp: 102291

Ion Ratio Lower Upper

99 100

42 15.0 13.5 20.3

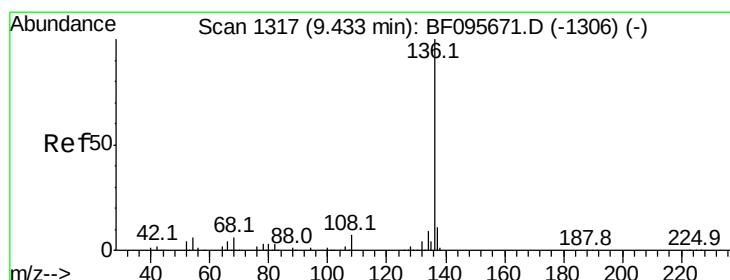
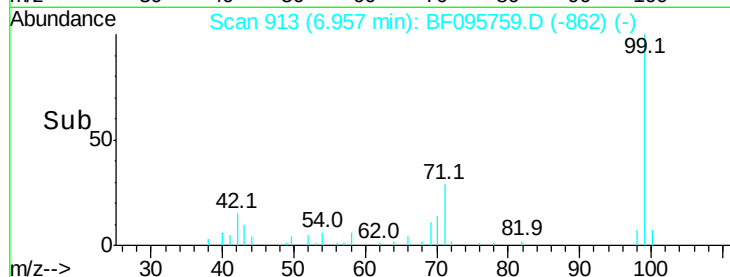
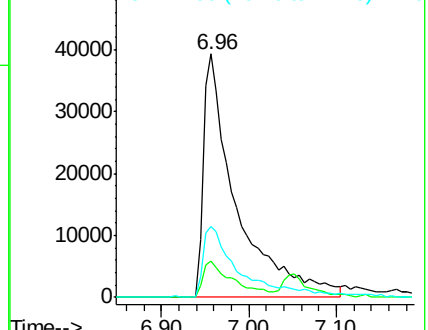
71 29.3 24.5 36.7



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: 9.42 min Scan# 1331

Delta R.T. -0.02 min

Lab File: BF095759.D

Acq: 7 Jun 2017 22:11

Tgt Ion: 136 Resp: 301310

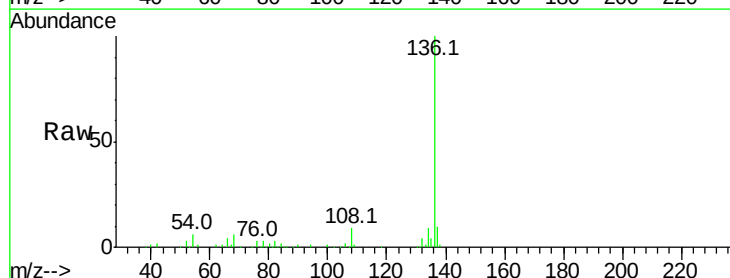
Ion Ratio Lower Upper

136 100

137 10.4 8.5 12.7

54 6.2 4.9 7.3

68 5.9 4.1 6.1

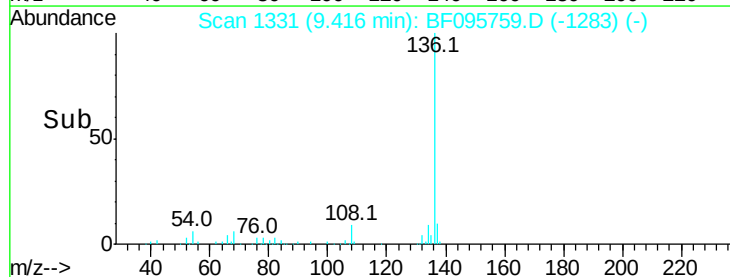
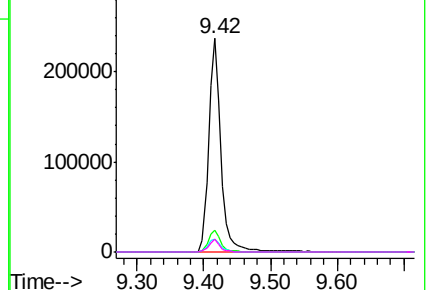


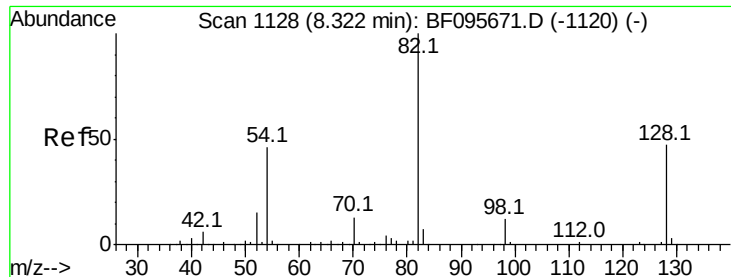
Abundance Ion 136.00 (135.70 to 136.70): E

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

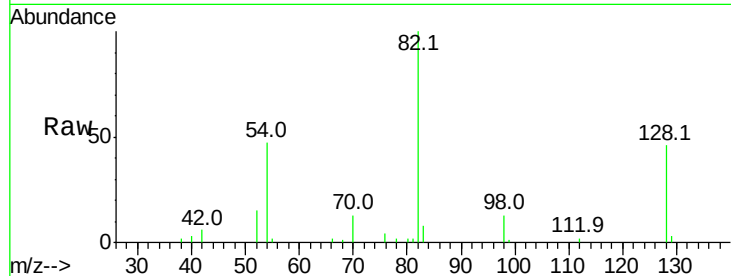




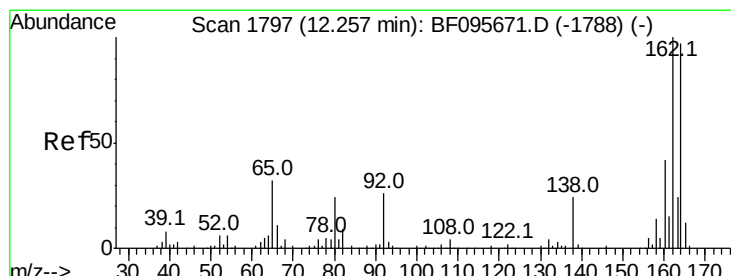
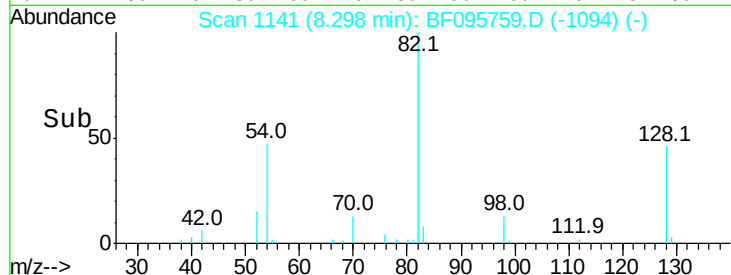
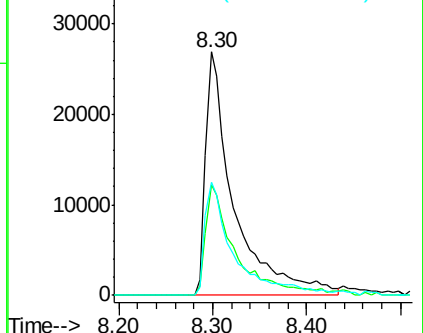
#23
 Nitrobenzene-d5
 Concen: 11.74 ng
 RT: 8.30 min Scan# 1141
 Delta R.T. -0.02 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 56946
 Ion Ratio Lower Upper
 82 100
 128 45.6 34.0 51.0
 54 46.5 42.2 63.2

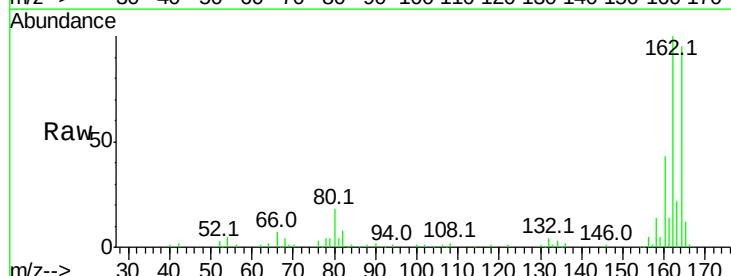


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

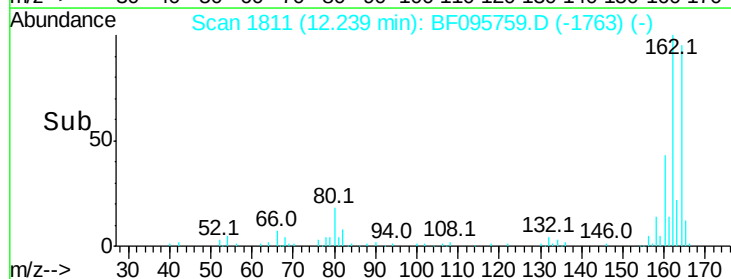
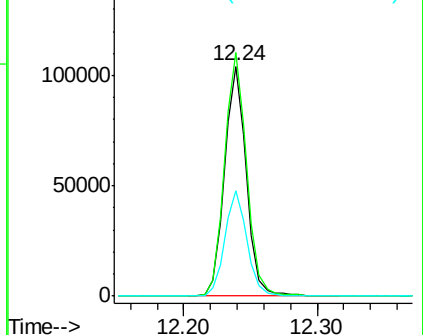


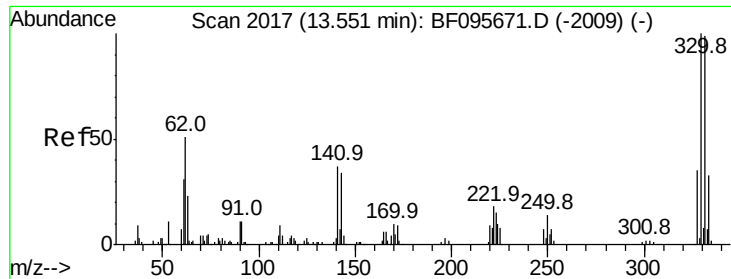
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.24 min Scan# 1811
 Delta R.T. -0.02 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Tgt Ion: 164 Resp: 120049
 Ion Ratio Lower Upper
 164 100
 162 105.8 82.6 123.8
 160 46.0 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

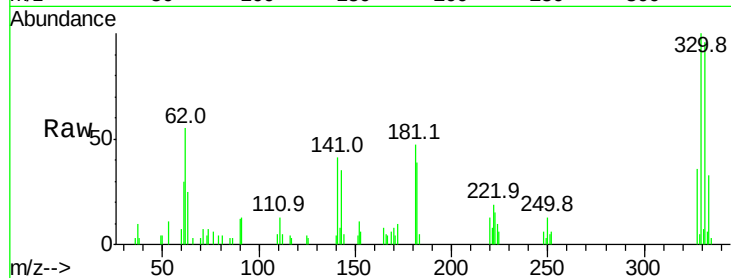




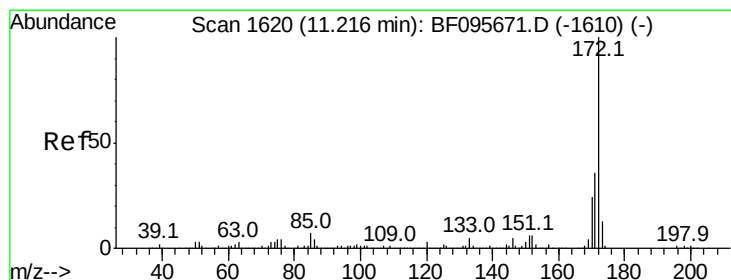
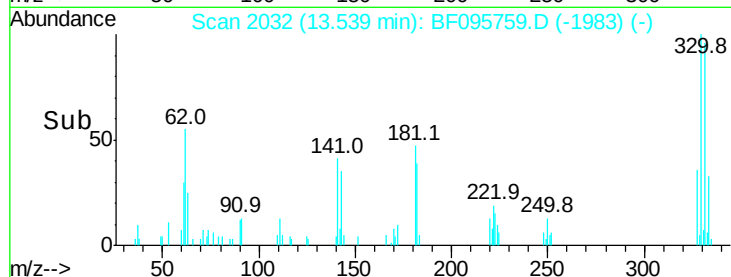
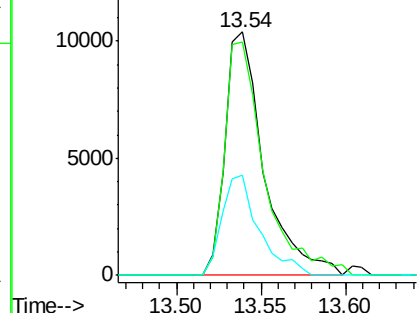
#41
 2,4,6-Tribromophenol
 Concen: 15.70 ng
 RT: 13.54 min Scan# 2032
 Delta R.T. -0.01 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 16681
 Ion Ratio Lower Upper
 330 100
 332 98.2 76.6 115.0
 141 39.4 31.4 47.2

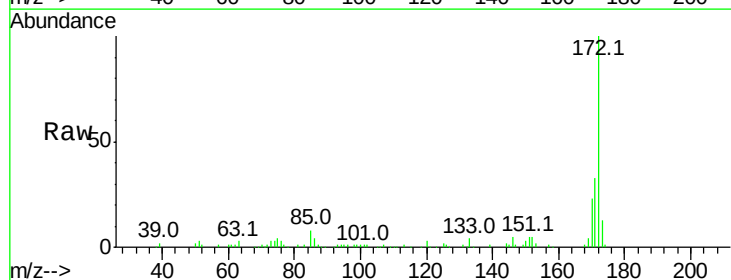


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

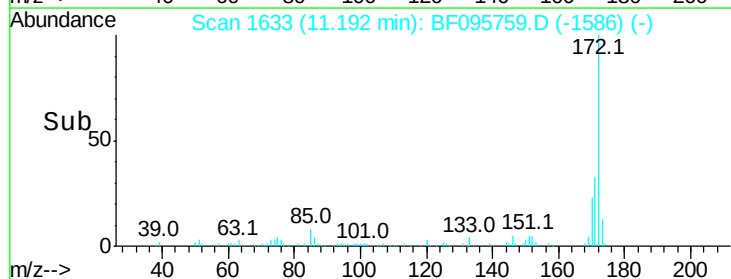
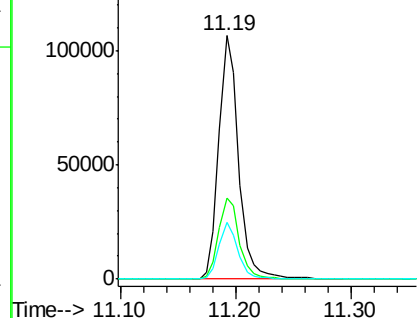


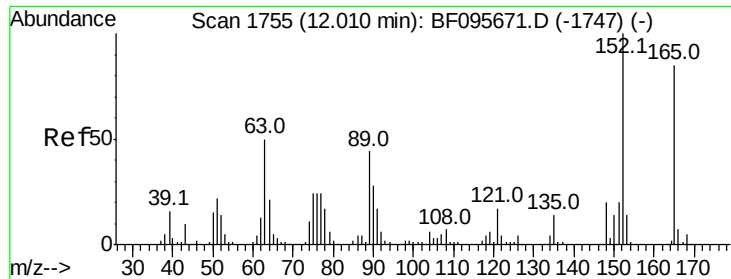
#44
 2-Fluorobiphenyl
 Concen: 14.74 ng
 RT: 11.19 min Scan# 1633
 Delta R.T. -0.02 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Tgt Ion:172 Resp: 127126
 Ion Ratio Lower Upper
 172 100
 171 33.5 29.6 44.4
 170 23.2 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

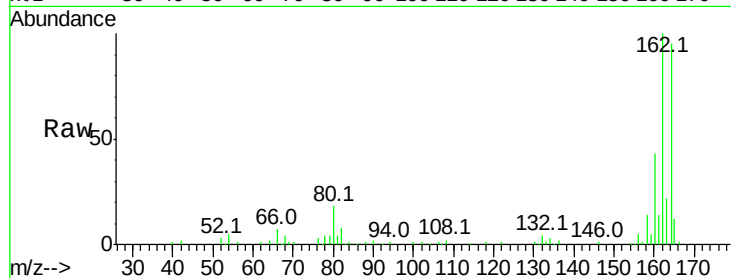




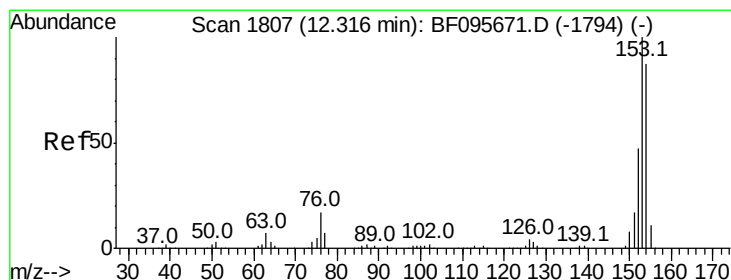
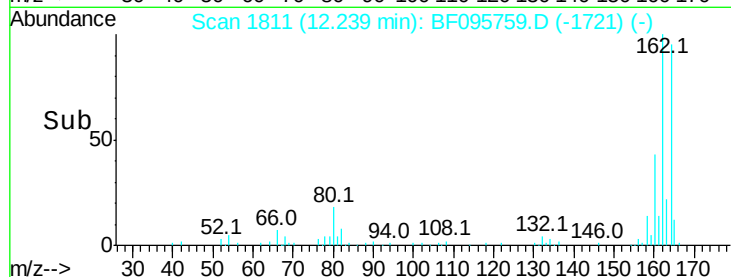
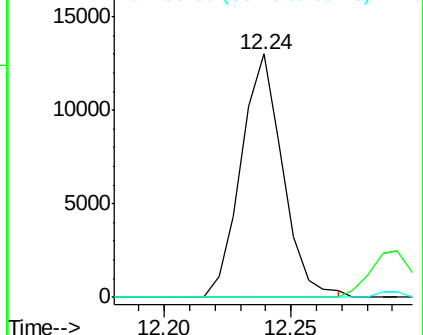
#50
2,6-Dinitrotoluene
Concen: 7.49 ng
RT: 12.24 min Scan# 1811
Delta R.T. 0.23 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:165 Resp: 14885
Ion Ratio Lower Upper
165 100
63 0.0 34.3 51.5#
89 0.0 37.1 55.7#

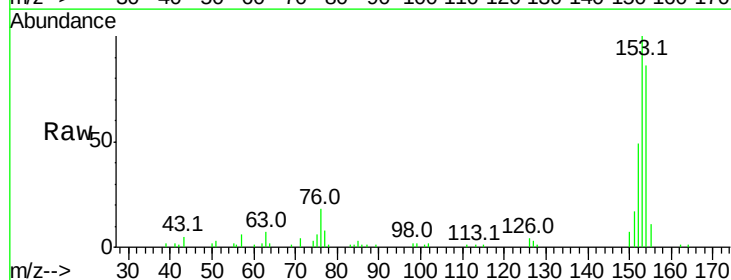


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

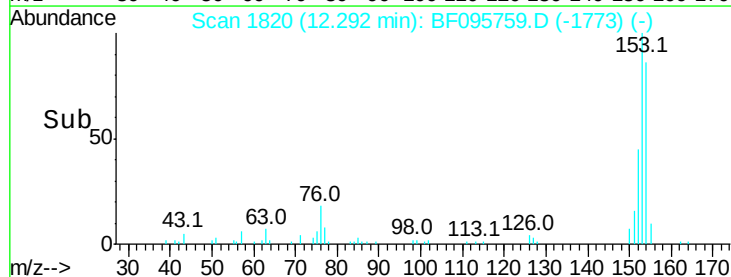
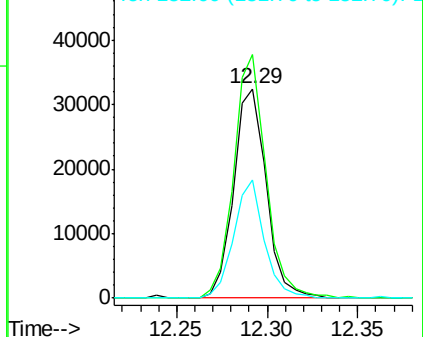


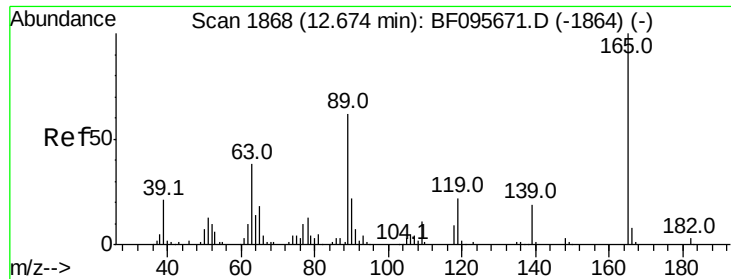
#51
Acenaphthene
Concen: 5.31 ng
RT: 12.29 min Scan# 1820
Delta R.T. -0.02 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion:154 Resp: 40559
Ion Ratio Lower Upper
154 100
153 116.1 90.5 135.7
152 56.4 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

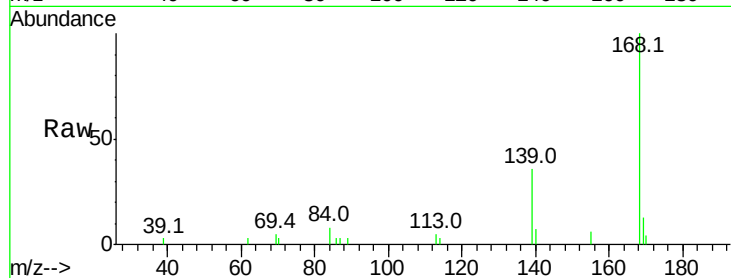




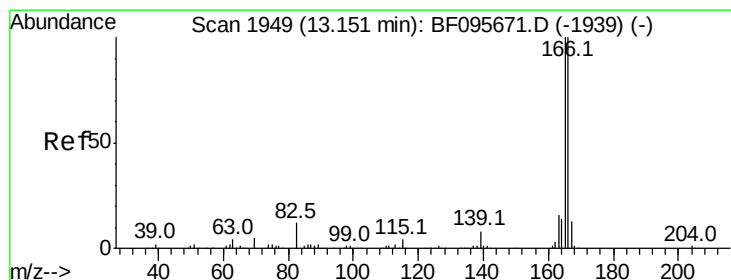
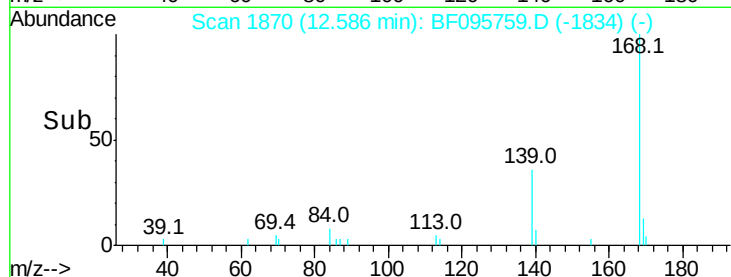
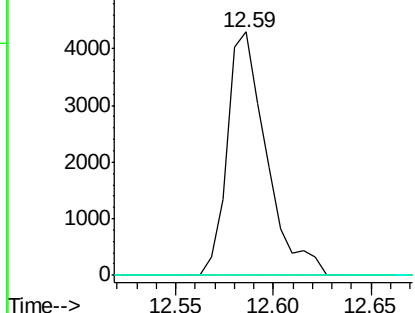
#55
4-Nitrophenol
Concen: 8.79 ng
RT: 12.59 min Scan# 1870
Delta R.T. -0.09 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 5972
Ion Ratio Lower Upper
139 100
109 0.0 34.1 74.1#
65 0.0 31.4 71.4#

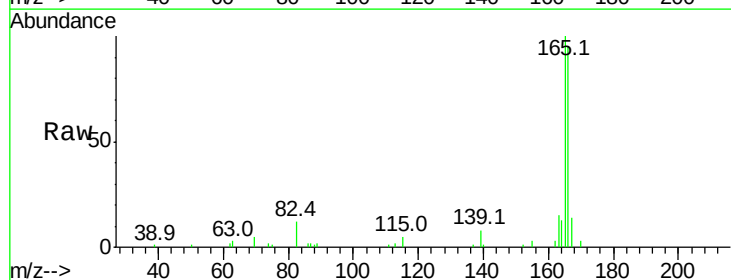


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

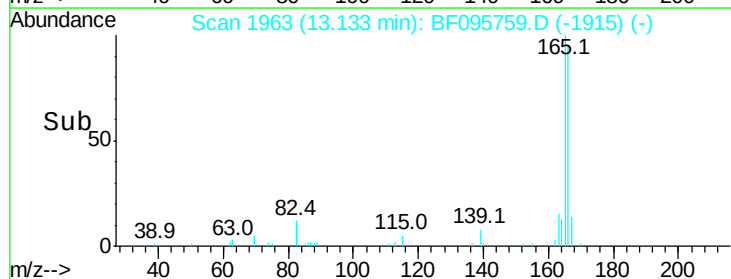
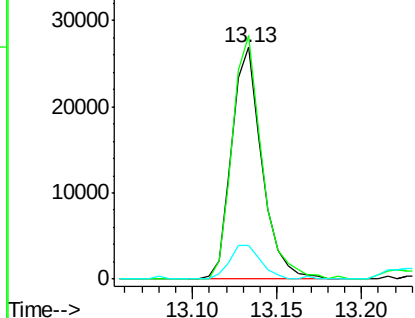


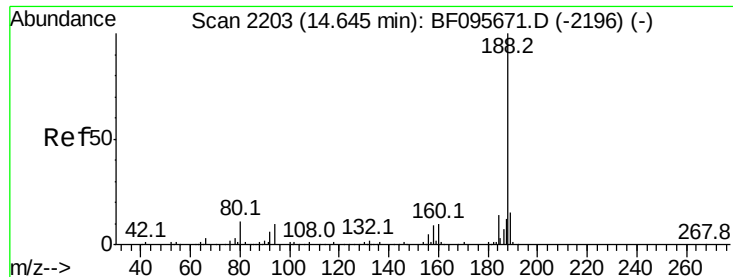
#57
Fluorene
Concen: 3.58 ng
RT: 13.13 min Scan# 1963
Delta R.T. -0.02 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion:166 Resp: 33505
Ion Ratio Lower Upper
166 100
165 105.0 78.8 118.2
167 14.3 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 14.63 min Scan# 2218

Delta R.T. -0.01 min

Lab File: BF095759.D

Acq: 7 Jun 2017 22:11

Instrument :

BNA_F

ClientSampleId :

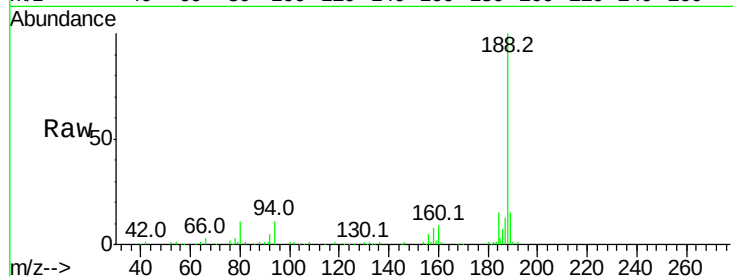
Tot Ion:188 Resp: 180659

Ion Ratio Lower Upper

188 100

94 10.5 9.4 14.2

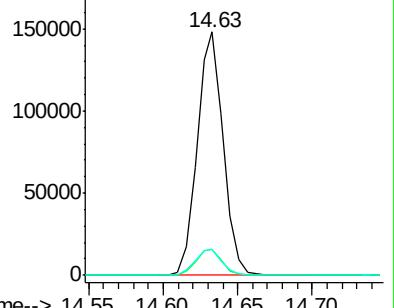
80 10.8 10.2 15.2



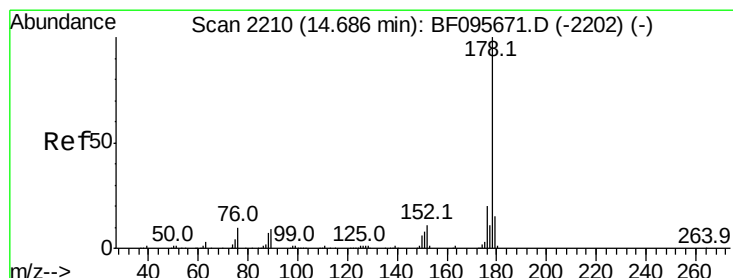
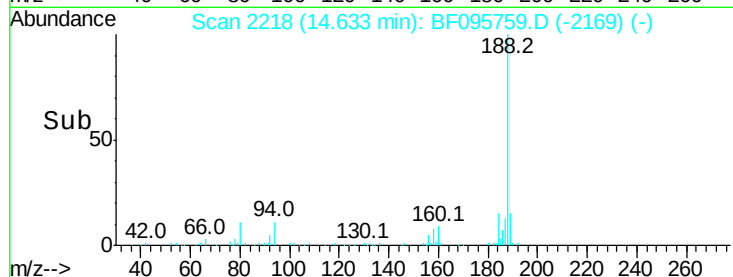
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time--> 14.55 14.60 14.65 14.70



#70

Phenanthrene

Concen: 32.29 ng

RT: 14.67 min Scan# 2224

Delta R.T. -0.02 min

Lab File: BF095759.D

Acq: 7 Jun 2017 22:11

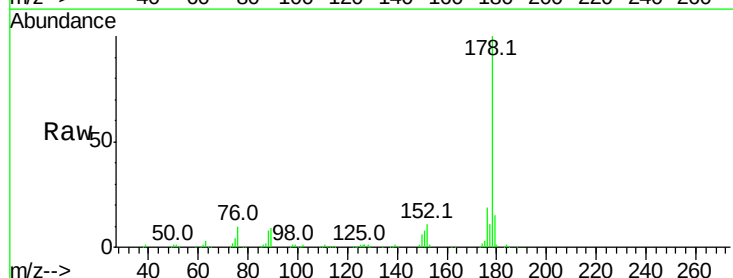
Tgt Ion:178 Resp: 336561

Ion Ratio Lower Upper

178 100

176 19.4 16.2 24.4

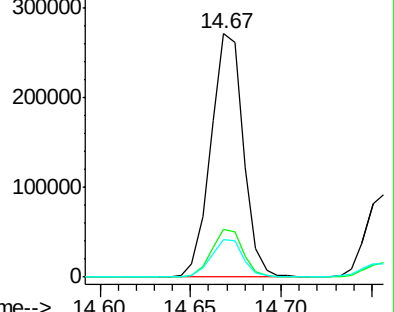
179 15.5 12.6 19.0



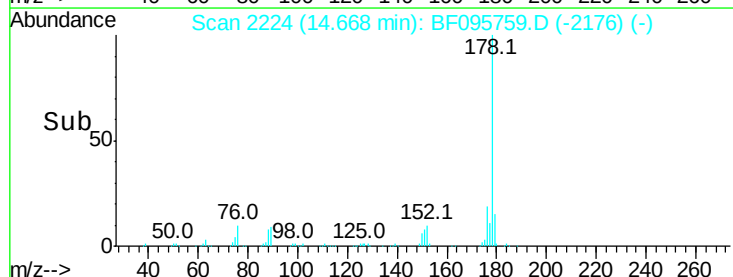
Abundance Ion 178.00 (177.70 to 178.70): E

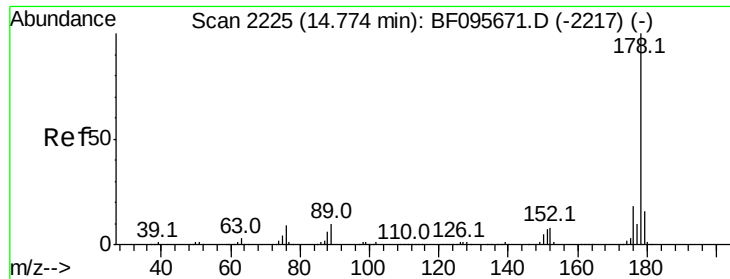
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time--> 14.60 14.65 14.70

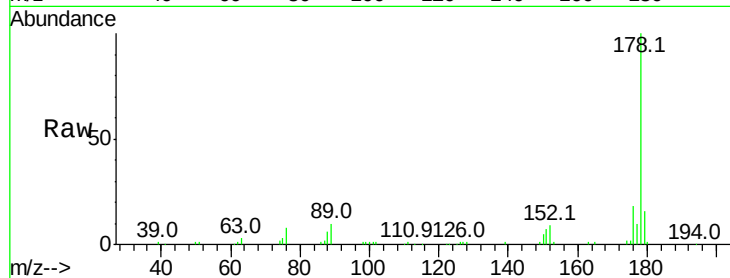




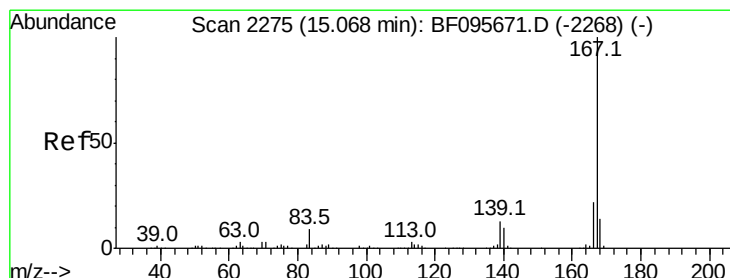
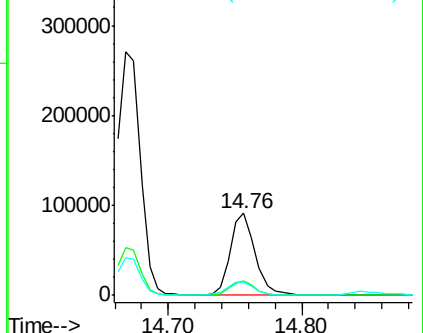
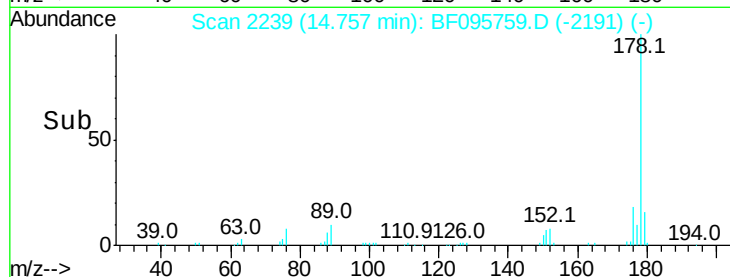
#71
 Anthracene
 Concen: 10.85 ng
 RT: 14.76 min Scan# 2239
 Delta R.T. -0.02 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 118062
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.8 23.8
 179 16.4 12.7 19.1

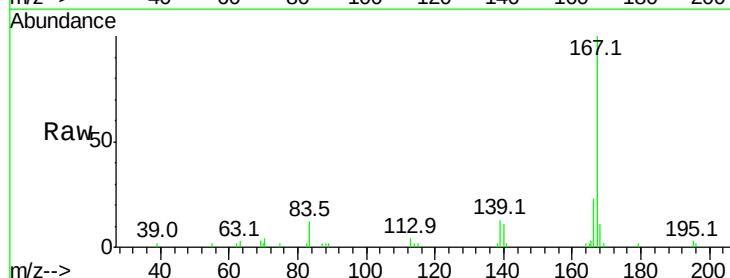


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

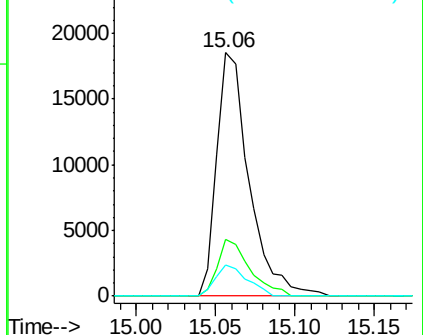
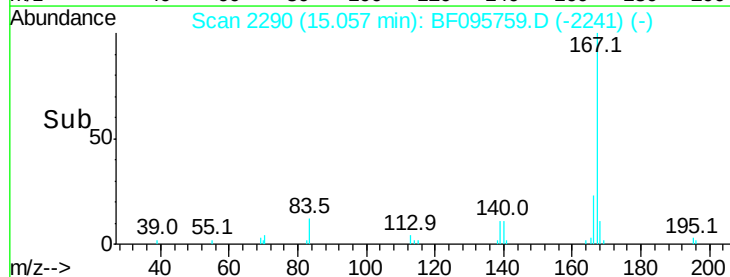


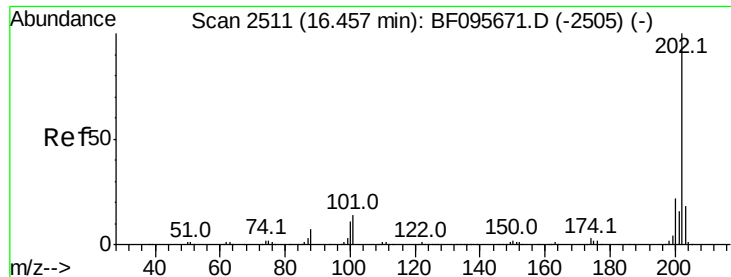
#72
 Carbazole
 Concen: 2.49 ng
 RT: 15.06 min Scan# 2290
 Delta R.T. -0.01 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Tgt Ion:167 Resp: 26369
 Ion Ratio Lower Upper
 167 100
 166 23.2 18.1 27.1
 139 13.0 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E

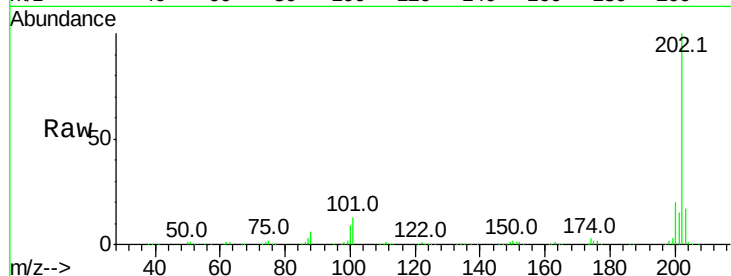




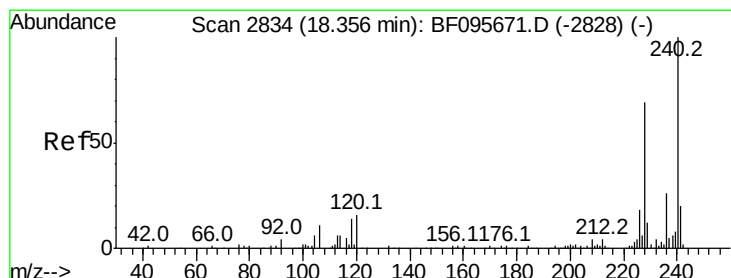
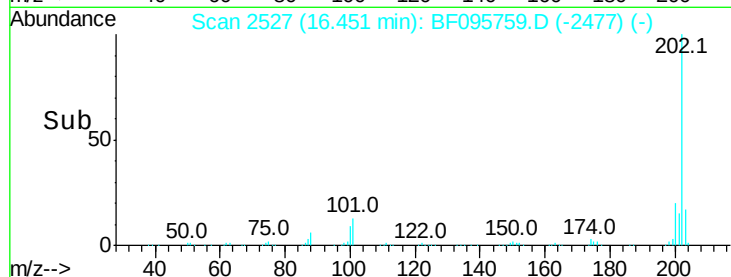
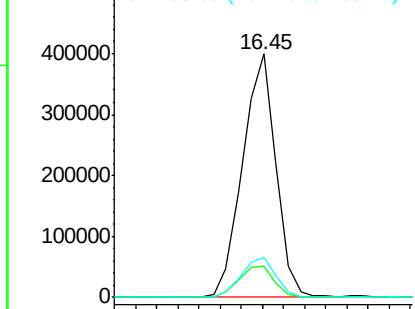
#74
Fluoranthene
Concen: 42.45 ng
RT: 16.45 min Scan# 2527
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.2
203	16.6	0.0	38.1

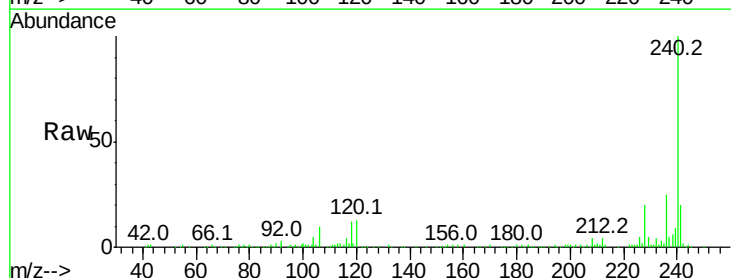


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

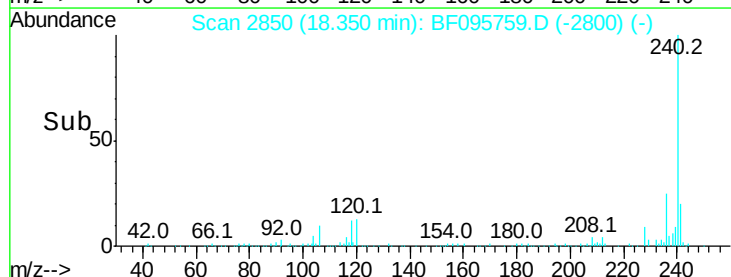
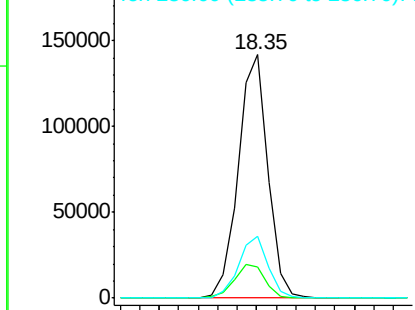


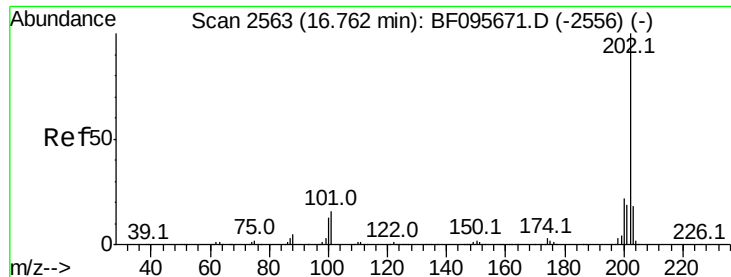
#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.35 min Scan# 2850
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.0	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

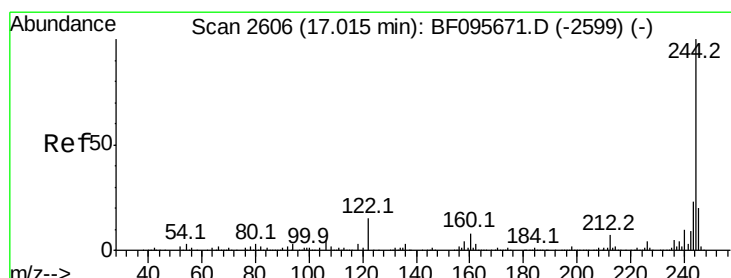
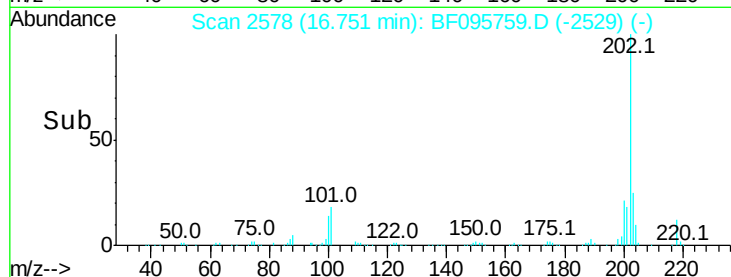
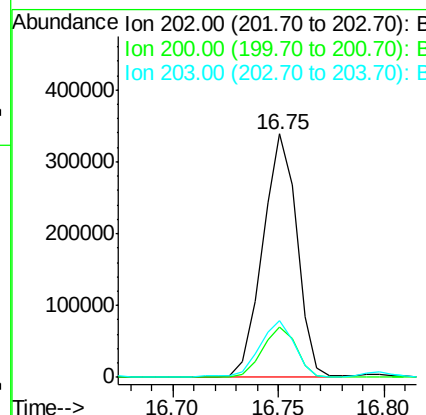
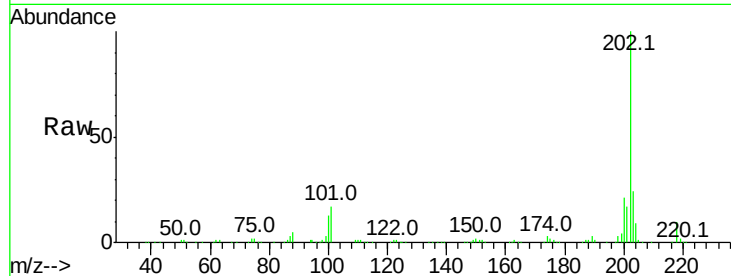




#77
Pvrene
Concen: 34.34 ng
RT: 16.75 min Scan# 2578
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

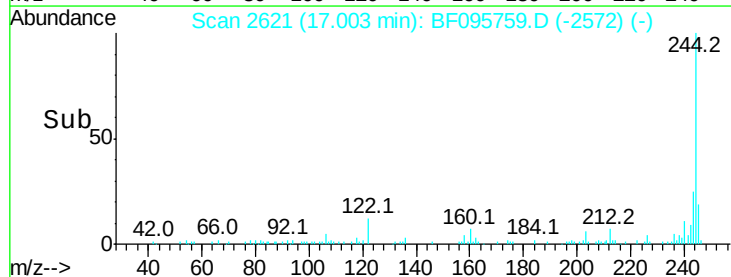
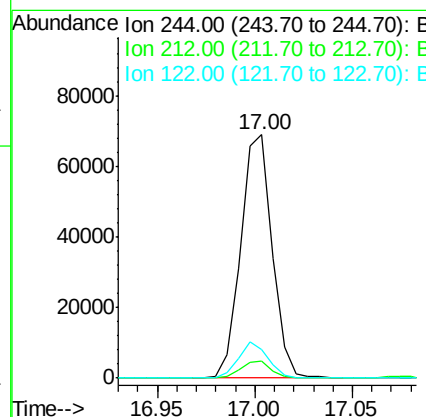
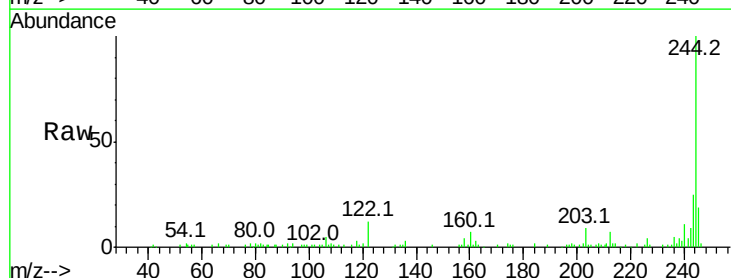
Instrument :
BNA_F
ClientSampleId :

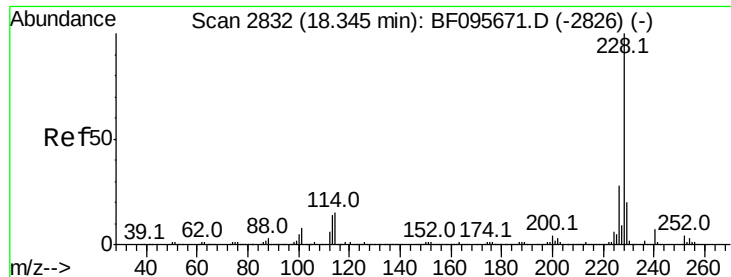
Tot Ion:202 Resp: 381661
Ion Ratio Lower Upper
202 100
200 20.6 17.6 26.4
203 23.6 14.4 21.6#



#78
Terphenyl-d14
Concen: 12.77 ng
RT: 17.00 min Scan# 2621
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion:244 Resp: 76645
Ion Ratio Lower Upper
244 100
212 6.9 6.0 9.0
122 11.7 10.3 15.5

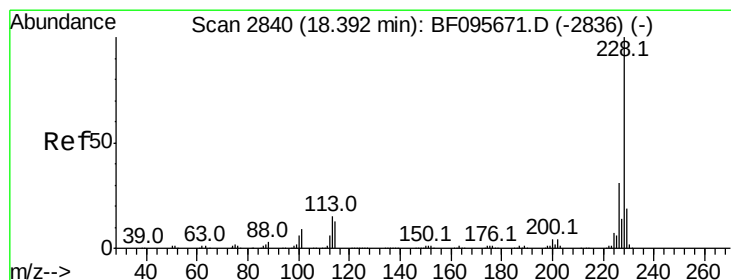
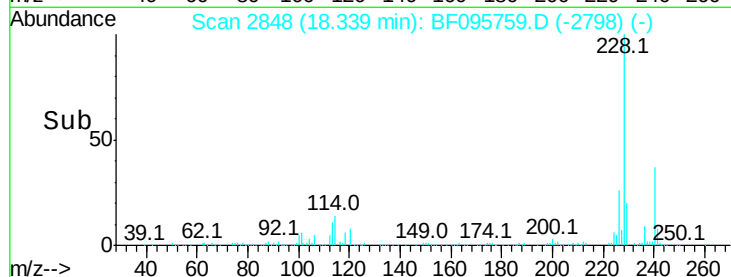
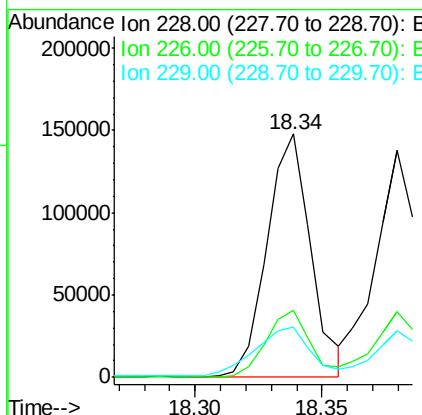
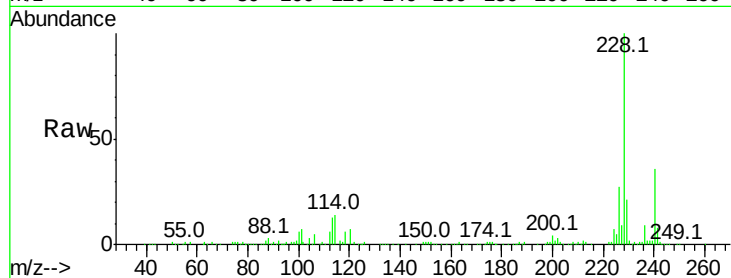




#80
Benzo(a)anthracene
Concen: 20.48 ng
RT: 18.34 min Scan# 2848
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

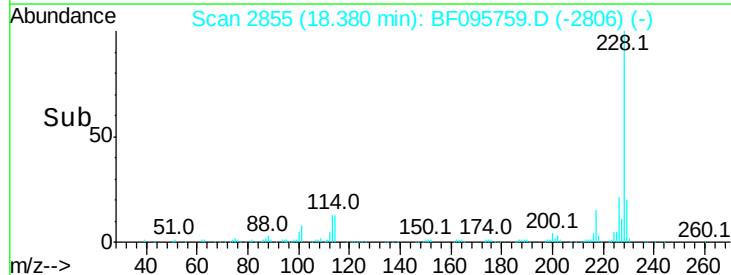
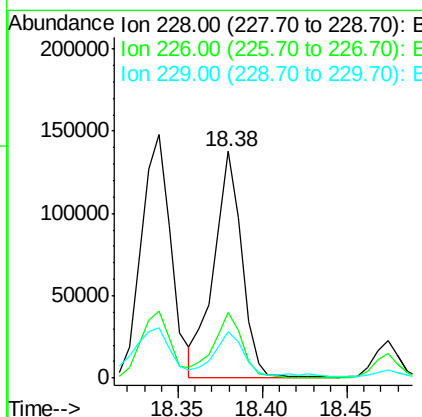
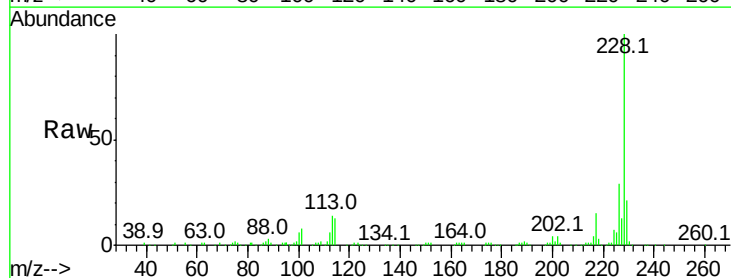
Instrument :
BNA_F
ClientSampleId :

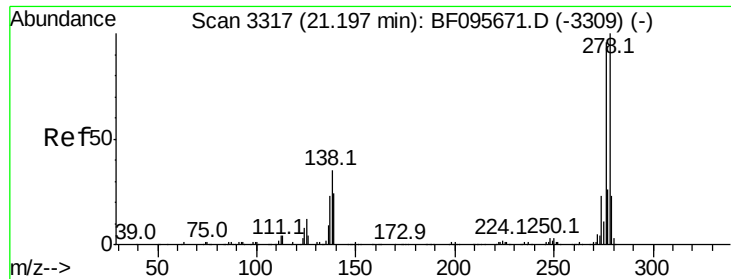
Tot Ion:228 Resp: 177353
Ion Ratio Lower Upper
228 100
226 27.4 22.6 33.8
229 20.6 16.3 24.5



#82
Chrysene
Concen: 18.22 ng
RT: 18.38 min Scan# 2855
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion:228 Resp: 157695
Ion Ratio Lower Upper
228 100
226 28.9 24.9 37.3
229 20.6 15.8 23.6

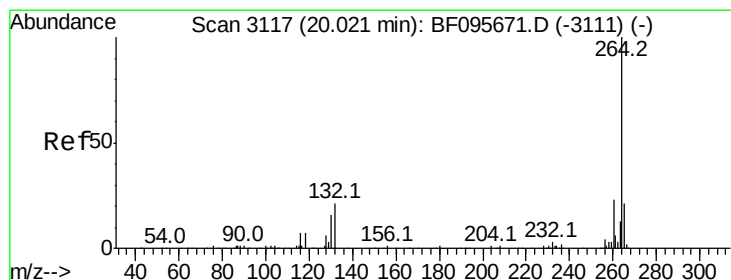
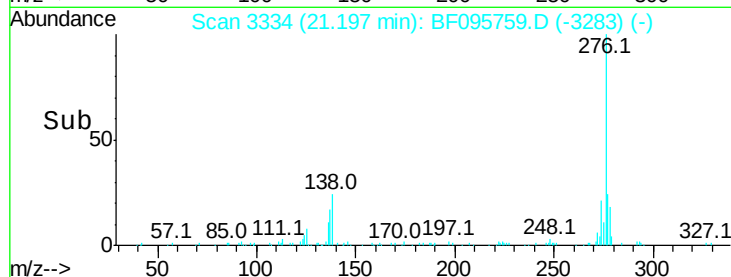
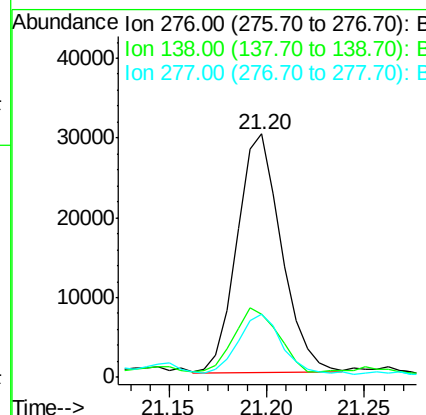
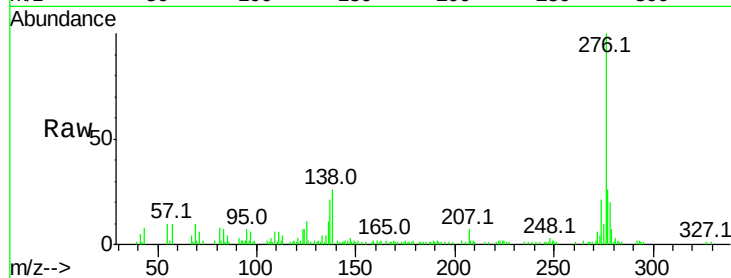




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 6.32 ng
 RT: 21.20 min Scan# 3334
 Delta R.T. -0.00 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

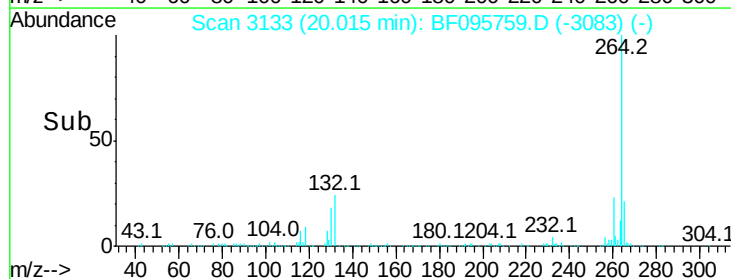
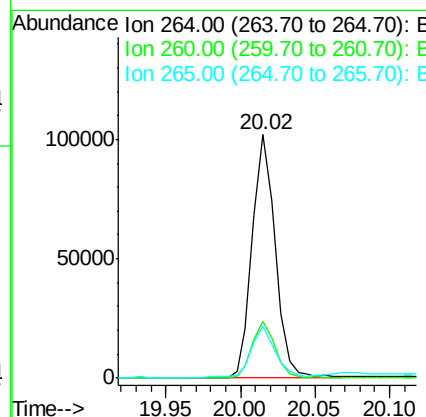
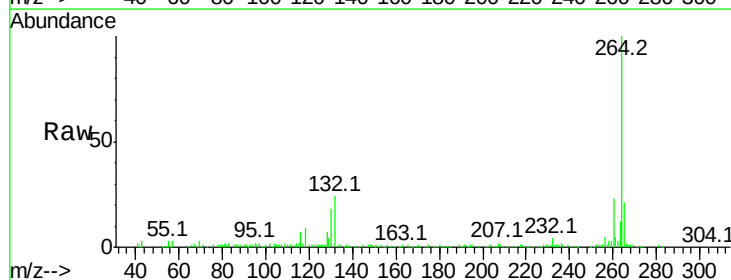
Instrument :
 BNA_F
 ClientSampleId :

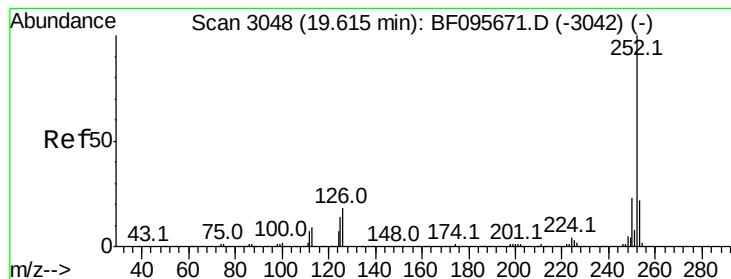
Tot Ion:276 Resp: 46821
 Ion Ratio Lower Upper
 276 100
 138 30.0 27.8 41.6
 277 24.8 20.2 30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 20.02 min Scan# 3133
 Delta R.T. -0.01 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Tgt Ion:264 Resp: 109800
 Ion Ratio Lower Upper
 264 100
 260 23.2 19.5 29.3
 265 21.3 17.2 25.8





#87

Benzo(b)fluoranthene

Concen: 28.66 ng

RT: 19.62 min Scan# 3065

Delta R.T. -0.00 min

Lab File: BF095759.D

Acq: 7 Jun 2017 22:11

Instrument :

BNA_F

ClientSampleId :

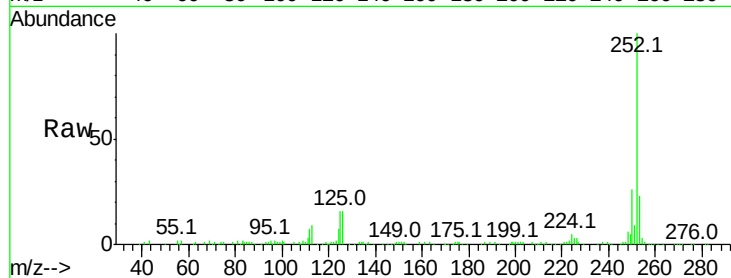
Tot Ion:252 Resp: 197044

Ion Ratio Lower Upper

252 100

253 22.9 18.1 27.1

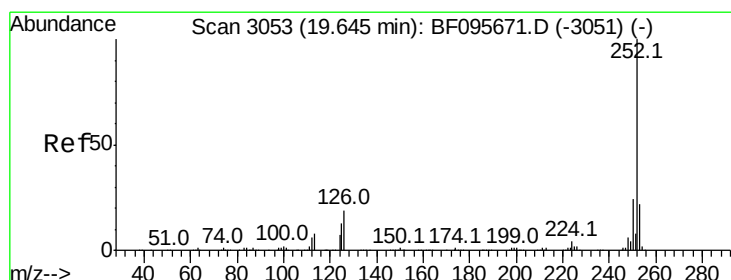
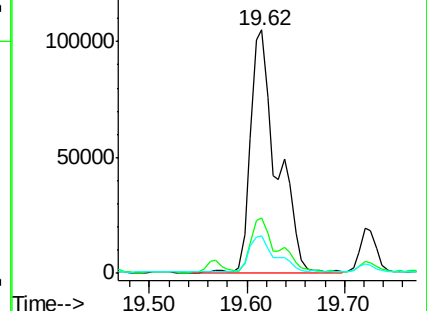
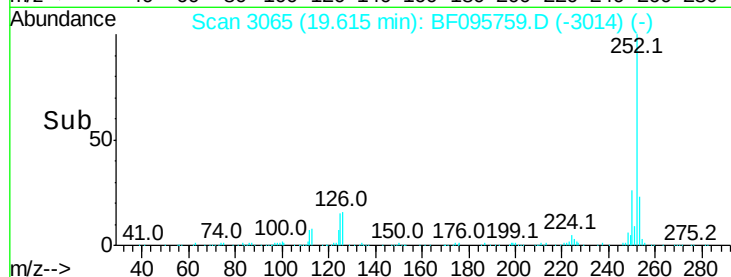
125 15.6 9.8 14.8#



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: 29.98 ng

RT: 19.62 min Scan# 3065

Delta R.T. -0.03 min

Lab File: BF095759.D

Acq: 7 Jun 2017 22:11

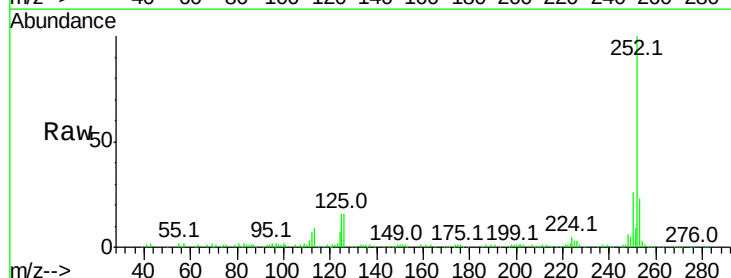
Tgt Ion:252 Resp: 197044

Ion Ratio Lower Upper

252 100

253 22.9 18.4 27.6

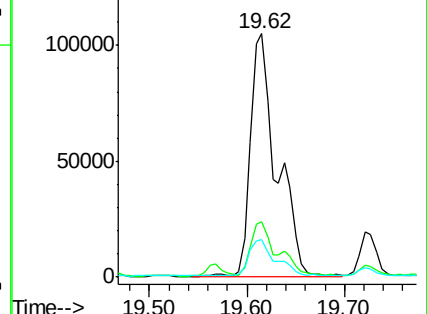
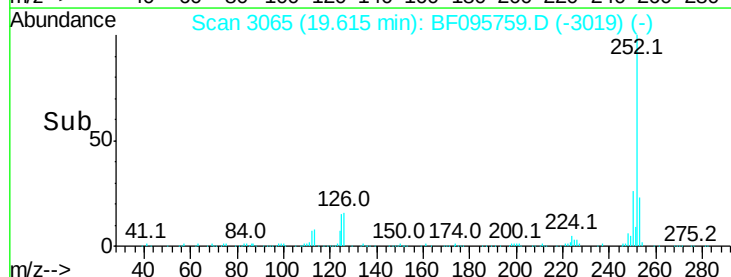
125 15.6 13.1 19.7

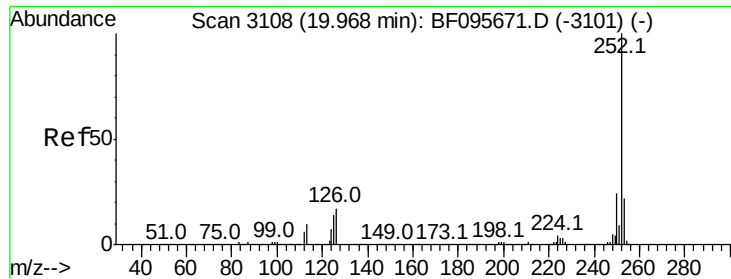


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

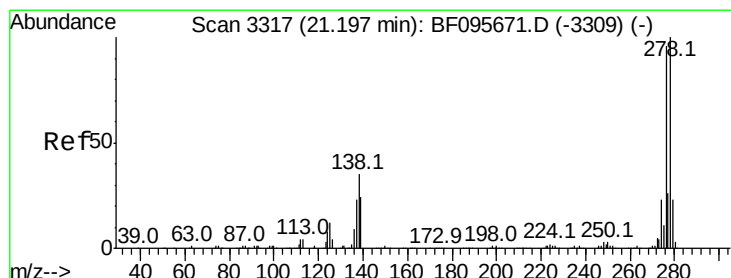
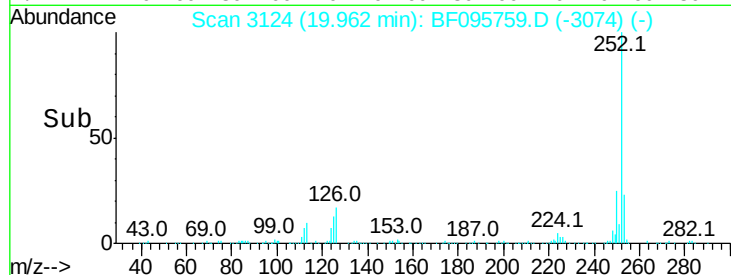
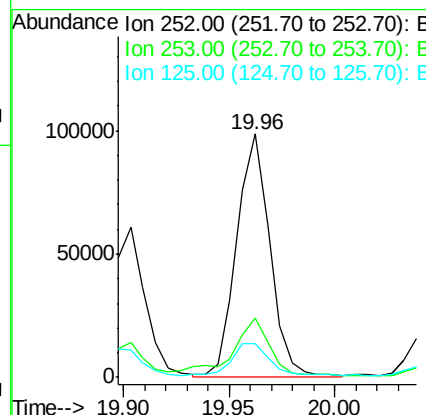
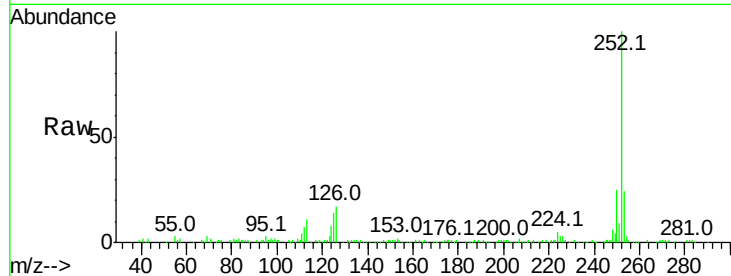




#89
Benzo(a)pyrene
Concen: 16.86 ng
RT: 19.96 min Scan# 3124
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

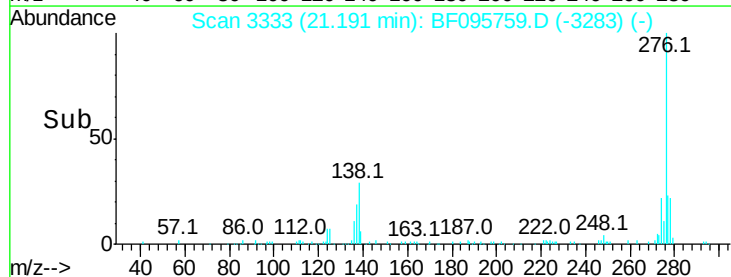
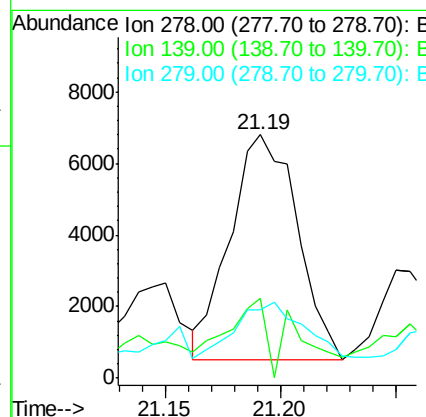
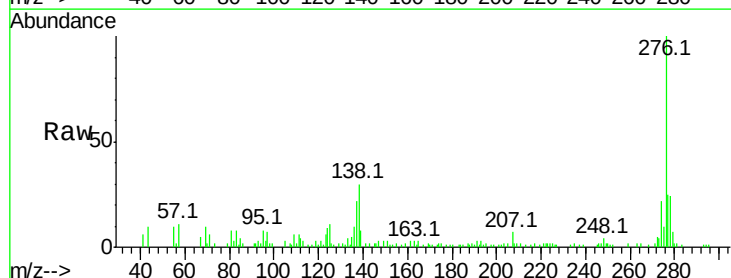
Instrument :
BNA_F
ClientSampleId :

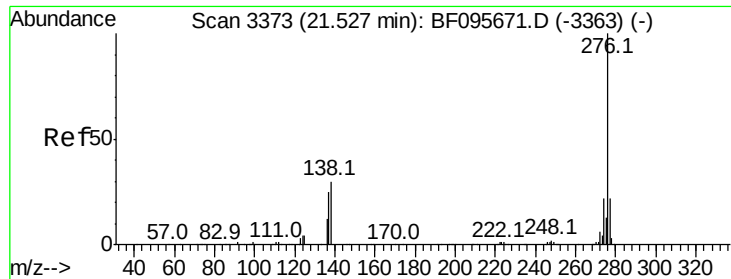
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.5	26.3
125	14.0	11.0	16.4



#90
Dibenzo(a,h)anthracene
Concen: 2.38 ng
RT: 21.19 min Scan# 3333
Delta R.T. -0.01 min
Lab File: BF095759.D
Acq: 7 Jun 2017 22:11

Tgt Ion	Ratio	Lower	Upper
278	100		
139	33.0	16.6	24.8#
279	28.0	19.3	28.9





#91
 Benzo(a,h,i)perylene
 Concen: 8.34 ng
 RT: 21.53 min Scan# 3391
 Delta R.T. 0.01 min
 Lab File: BF095759.D
 Acq: 7 Jun 2017 22:11

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	31.8	25.4	38.0

