

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051617\
 Data File : BF095185.D
 Acq On : 17 May 2017 9:18
 Operator : SJ/MA
 Sample : I3170-02DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 17 14:47:38 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 03 17:24:51 2017
 Response via : Initial Calibration

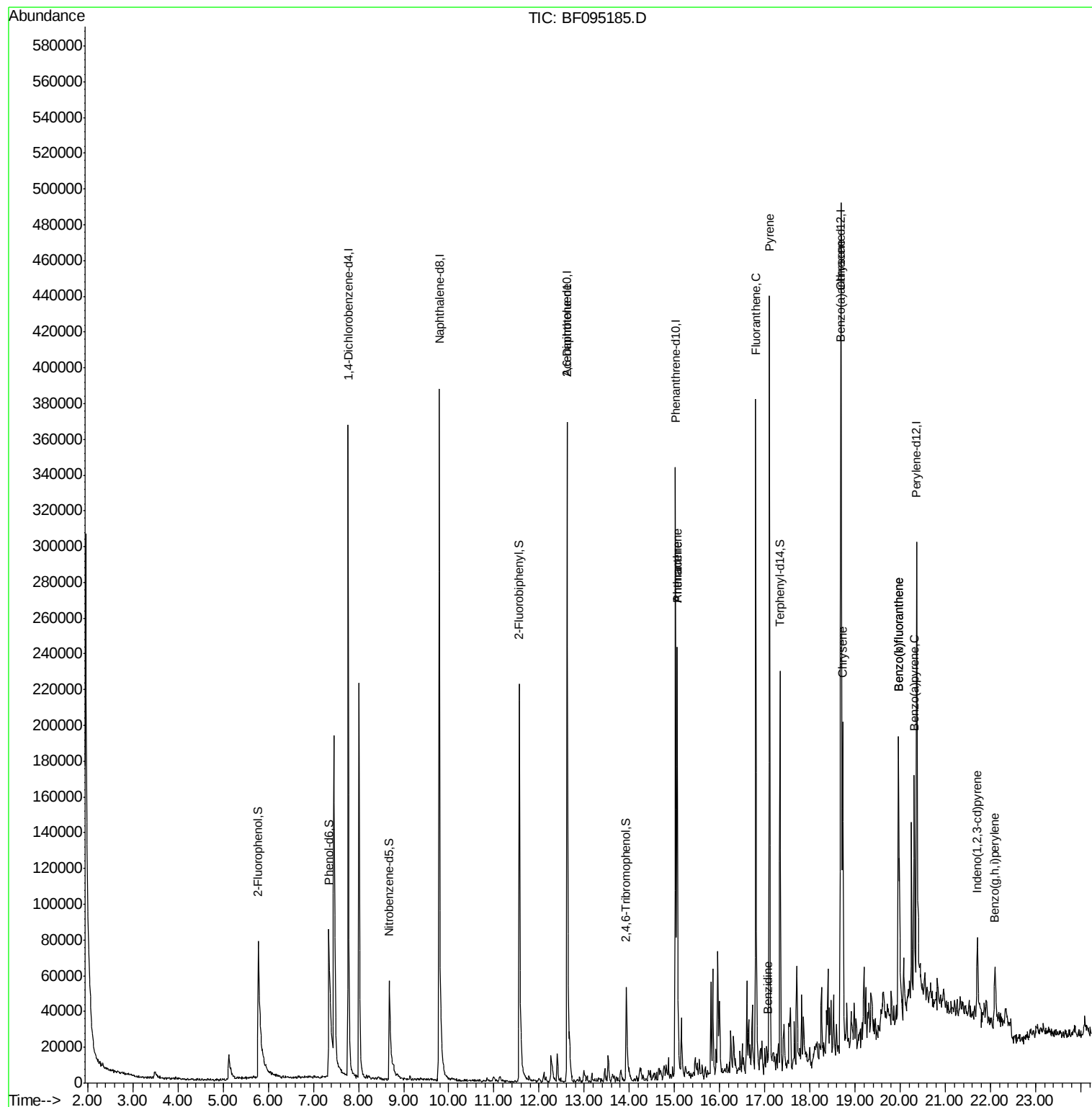
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	85903	20.00	ng	0.04
21) Naphthalene-d8	9.79	136	316652	20.00	ng	0.04
38) Acenaphthene-d10	12.62	164	131091	20.00	ng	0.04
63) Phenanthrene-d10	15.02	188	192121	20.00	ng	0.04
75) Chrysene-d12	18.69	240	171652	20.00	ng	0.04
86) Perylene-d12	20.37	264	122163	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.78	112	91419	17.74	ng	0.10
7) Phenol-d6	7.34	99	125136	20.24	ng	0.06
23) Nitrobenzene-d5	8.68	82	60672	12.08	ng	0.05
41) 2,4,6-Tribromophenol	13.94	330	15339	14.29	ng	0.05
44) 2-Fluorobiphenyl	11.56	172	158206	17.37	ng	0.03
78) Terphenyl-d14	17.34	244	91099	11.69	ng	0.02
Target Compounds						Qvalue
50) 2,6-Dinitrotoluene	12.62	165	10571	4.81	ng	# 31
70) Phenanthrene	15.06	178	145203	13.15	ng	98
71) Anthracene	15.06	178	145203	12.88	ng	99
74) Fluoranthene	16.80	202	211856	18.71	ng	99
76) Benzidine	17.07	184	819	6.74	ng	# 62
77) Pyrene	17.11	202	210147	16.37	ng	97
80) Benzo(a)anthracene	18.68	228	86747	8.68	ng	99
82) Chrysene	18.72	228	94903	9.82	ng	98
85) Indeno(1,2,3-cd)pyrene	21.71	276	30138	3.84	ng	97
87) Benzo(b)fluoranthene	19.97	252	117011	15.50	ng	# 94
88) Benzo(k)fluoranthene	19.97	252	117011	16.07	ng	97
89) Benzo(a)pyrene	20.31	252	55971	8.04	ng	96
91) Benzo(a,h,i)perylene	22.10	276	31675	5.61	ng	95

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

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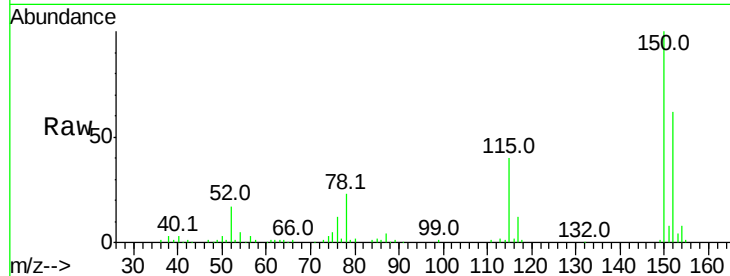


#1

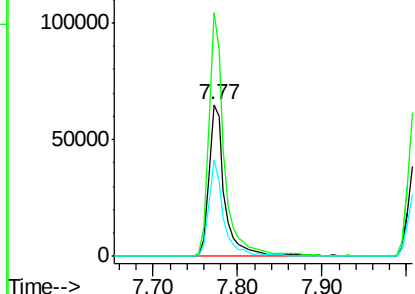
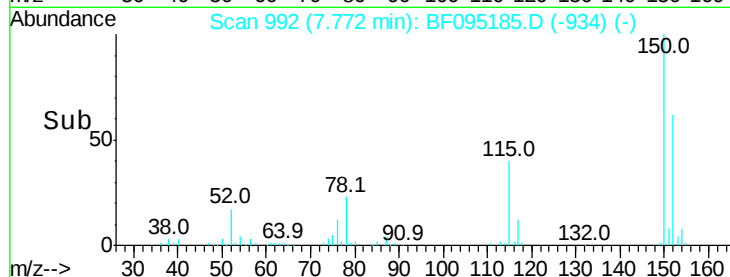
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.77 min Scan# 992
Delta R.T. 0.04 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 85903
Ion Ratio Lower Upper
152 100
150 160.4 126.2 189.2
115 63.5 52.2 78.2



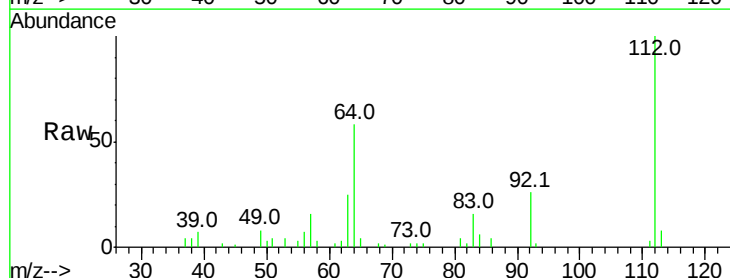
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



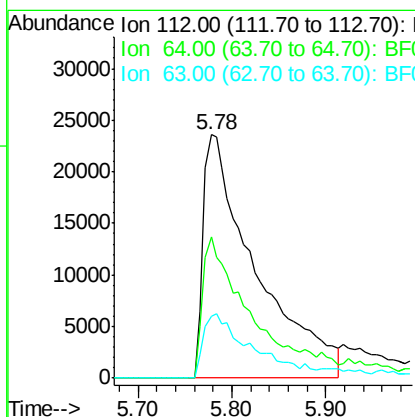
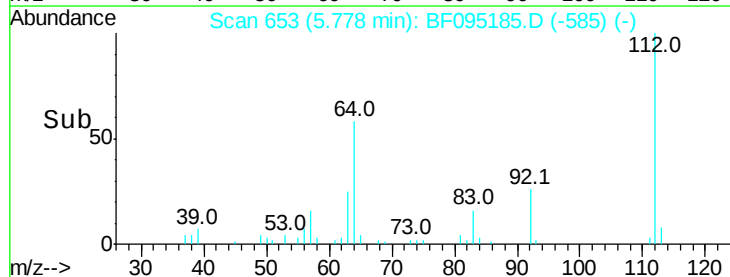
#5

2-Fluorophenol
Concen: 17.74 ng
RT: 5.78 min Scan# 653
Delta R.T. 0.10 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

Tgt Ion:112 Resp: 91419
Ion Ratio Lower Upper
112 100
64 58.1 46.0 69.0
63 25.2 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: 20.24 ng

RT: 7.34 min Scan# 919

Delta R.T. 0.06 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

Instrument :

BNA_F

ClientSampled :

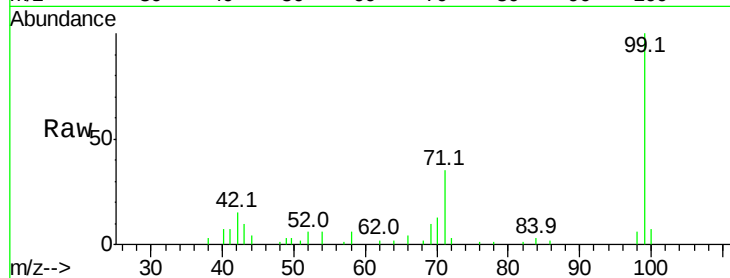
Tot Ion: 99 Resp: 125136

Ion Ratio Lower Upper

99 100

42 14.5 13.5 20.3

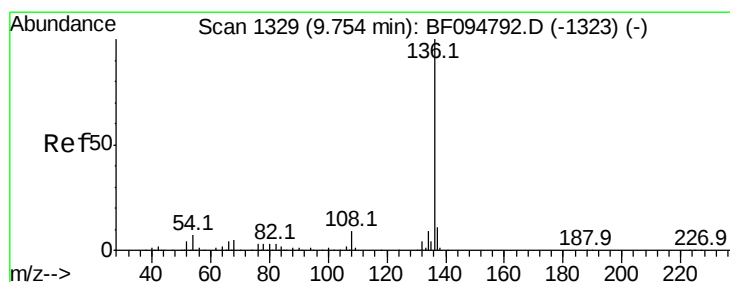
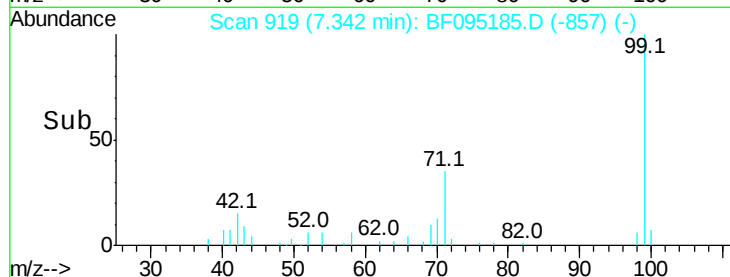
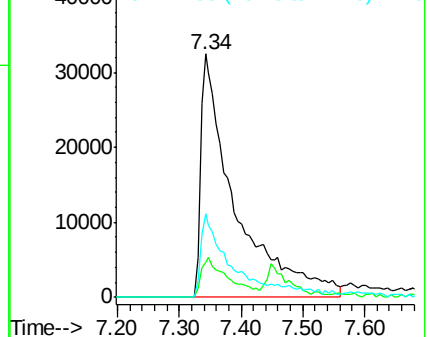
71 34.6 24.5 36.7



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: 9.79 min Scan# 1335

Delta R.T. 0.04 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

Tgt Ion: 136 Resp: 316652

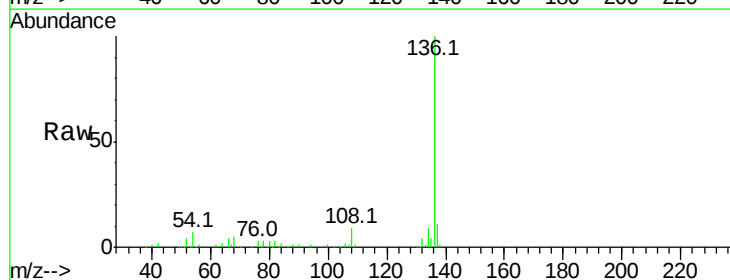
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 6.7 4.9 7.3

68 5.5 4.1 6.1

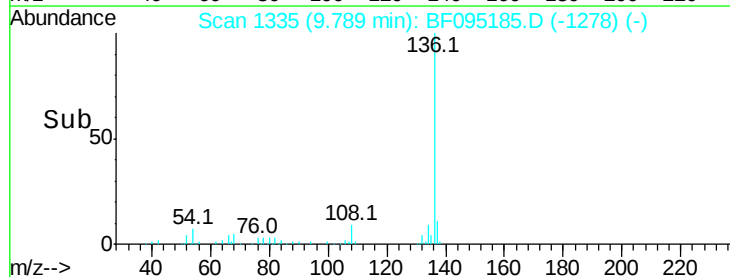
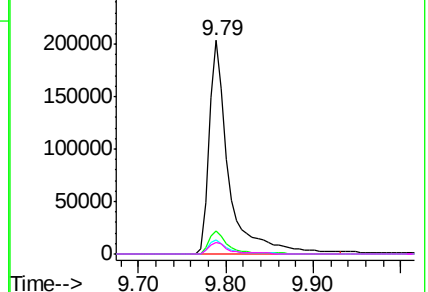


Abundance Ion 136.00 (135.70 to 136.70): E

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

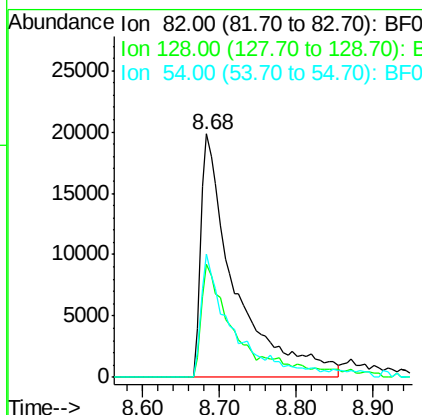
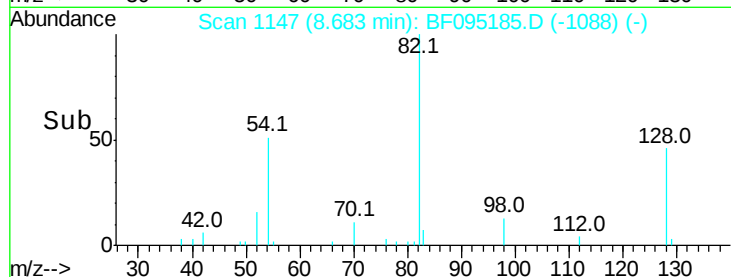
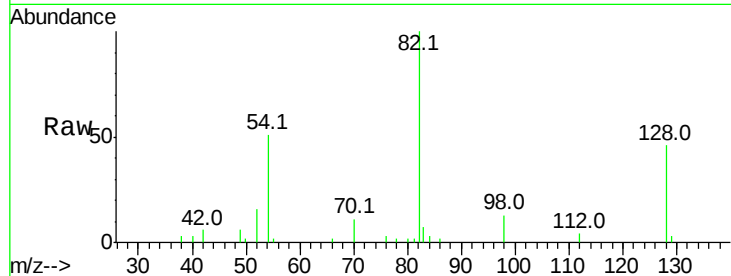




#23
 Nitrobenzene-d5
 Concen: 12.08 ng
 RT: 8.68 min Scan# 1147
 Delta R.T. 0.05 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

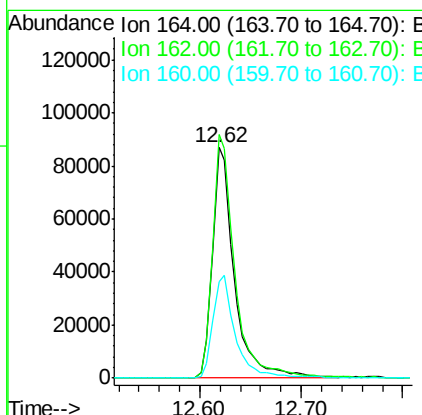
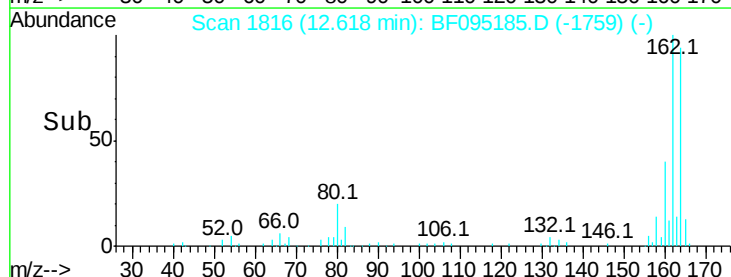
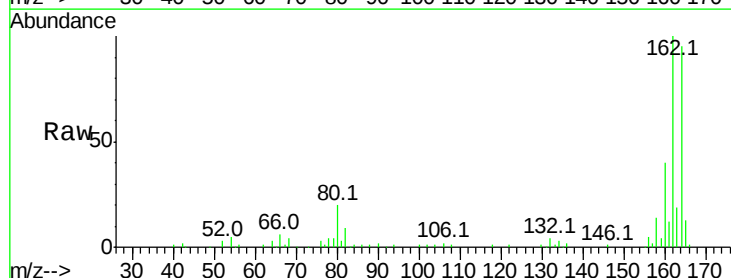
Instrument :
 BNA_F
 ClientSampled :

Tot Ion: 82 Resp: 60672
 Ion Ratio Lower Upper
 82 100
 128 46.2 34.0 51.0
 54 50.6 42.2 63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.62 min Scan# 1816
 Delta R.T. 0.04 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

Tgt Ion:164 Resp: 131091
 Ion Ratio Lower Upper
 164 100
 162 105.7 82.6 123.8
 160 41.8 36.2 54.2

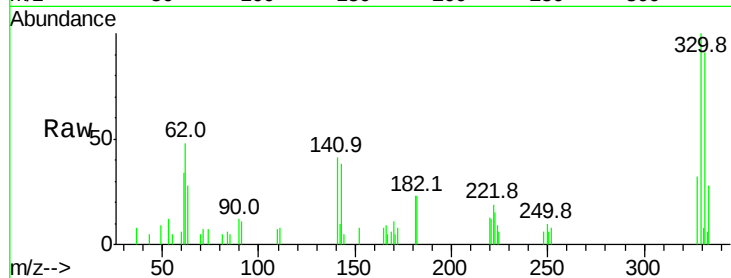




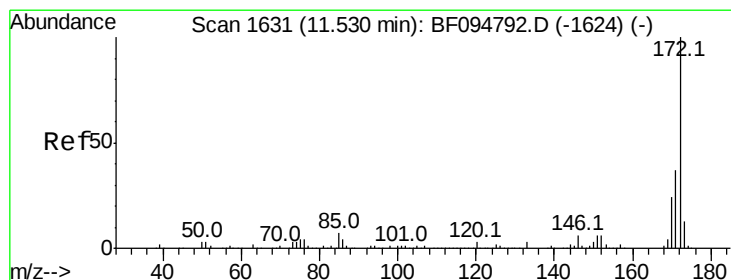
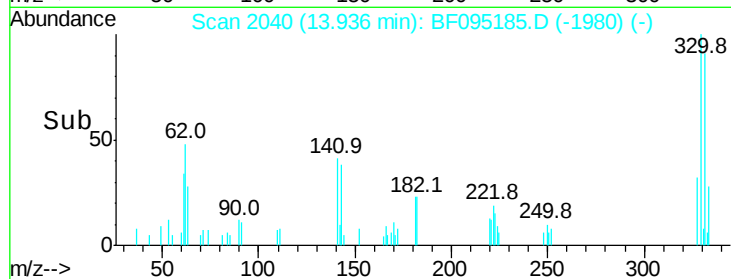
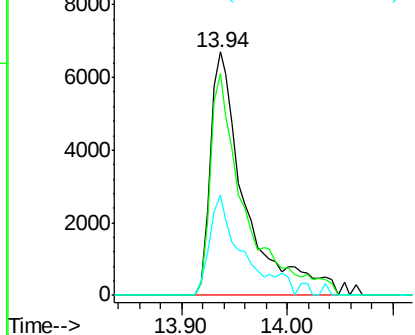
#41
 2,4,6-Tribromophenol
 Concen: 14.29 ng
 RT: 13.94 min Scan# 2040
 Delta R.T. 0.05 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 15339
 Ion Ratio Lower Upper
 330 100
 332 90.4 76.6 115.0
 141 36.2 31.4 47.2

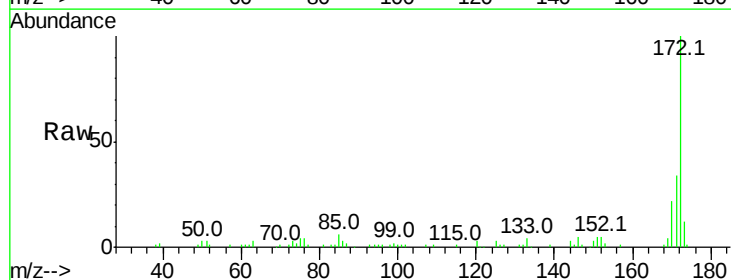


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

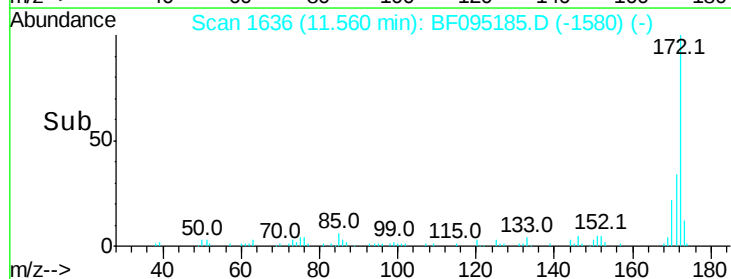
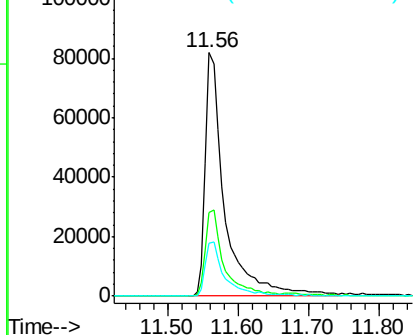


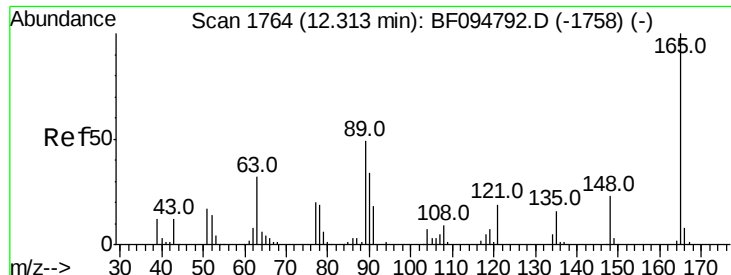
#44
 2-Fluorobiphenyl
 Concen: 17.37 ng
 RT: 11.56 min Scan# 1636
 Delta R.T. 0.03 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

Tgt Ion:172 Resp: 158206
 Ion Ratio Lower Upper
 172 100
 171 34.4 29.6 44.4
 170 21.6 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

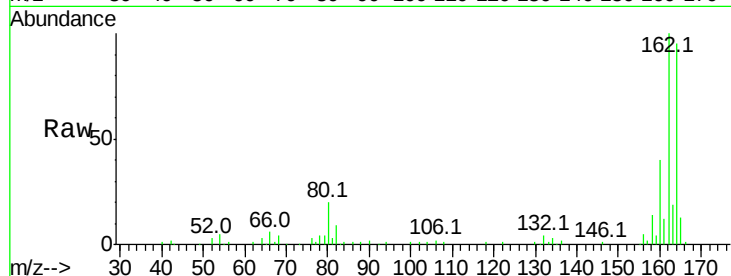




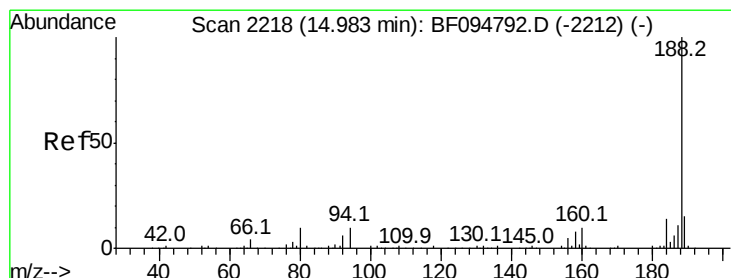
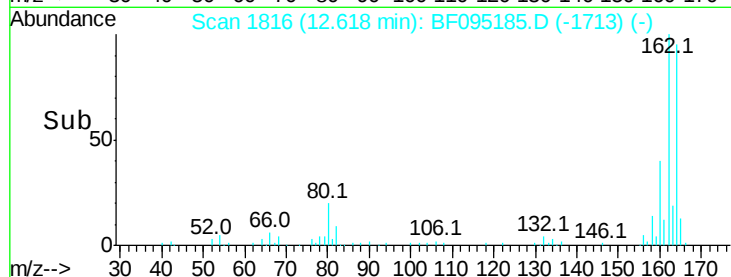
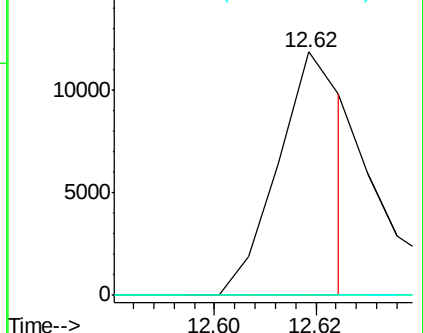
#50
 2,6-Dinitrotoluene
 Concen: 4.81 ng
 RT: 12.62 min Scan# 1816
 Delta R.T. 0.31 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:165 Resp: 10571
 Ion Ratio Lower Upper
 165 100
 63 0.0 34.3 51.5#
 89 0.0 37.1 55.7#

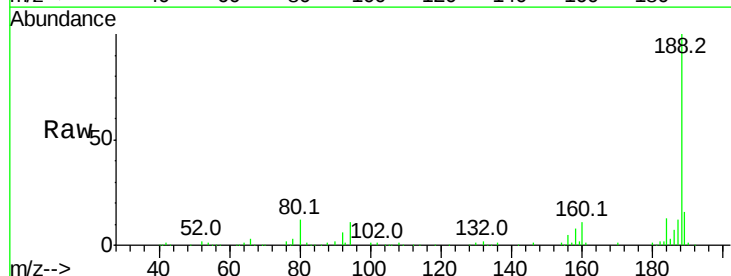


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

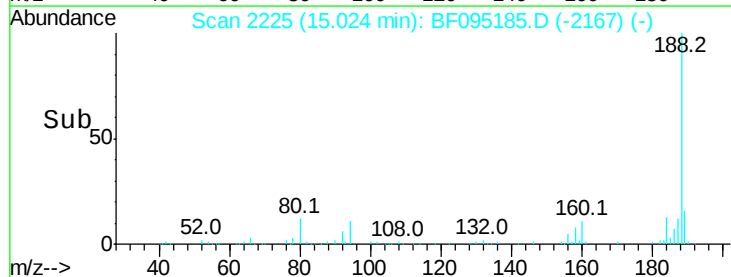
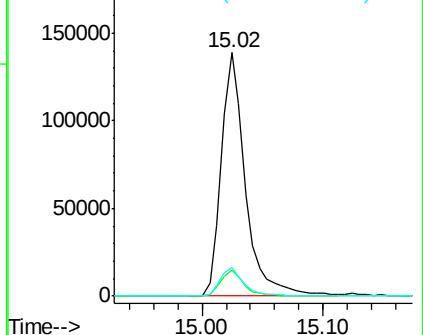


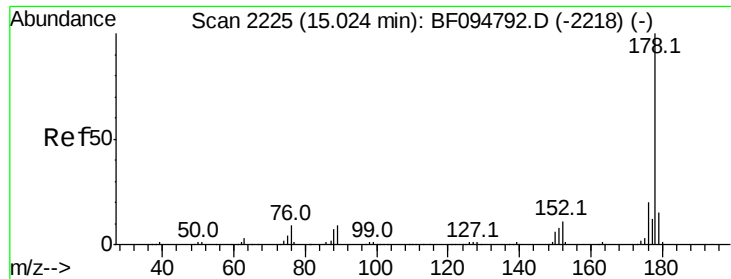
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 15.02 min Scan# 2225
 Delta R.T. 0.04 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

Tgt Ion:188 Resp: 192121
 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

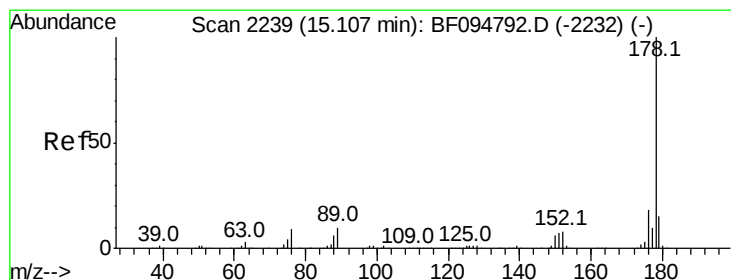
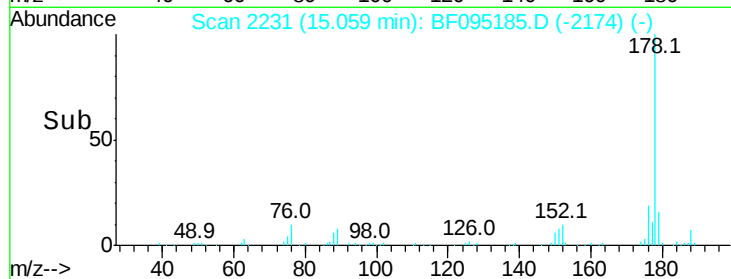
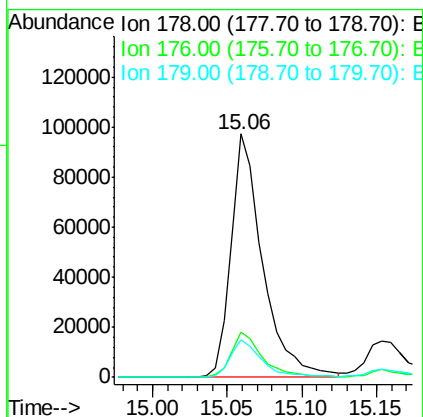
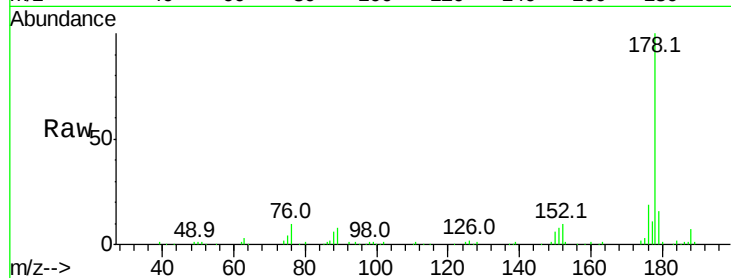




#70
Phenanthrene
Concen: 13.15 ng
RT: 15.06 min Scan# 2231
Delta R.T. 0.04 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

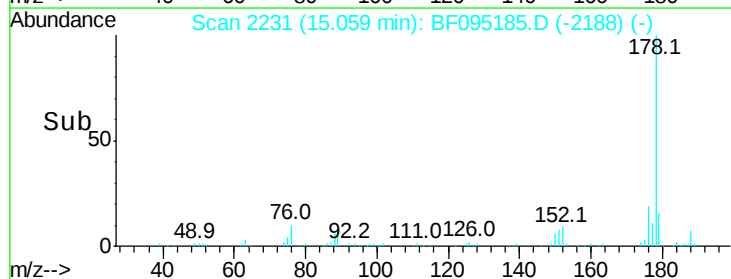
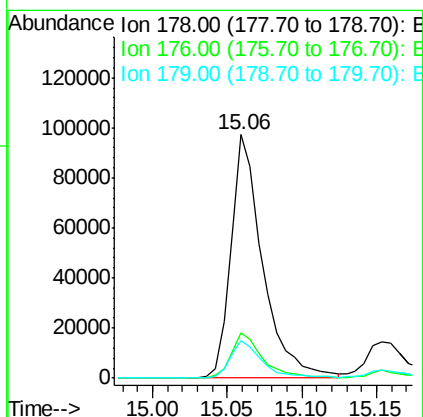
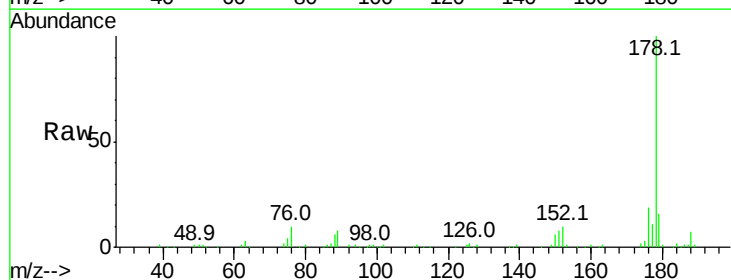
Instrument :
BNA_F
ClientSampleId :

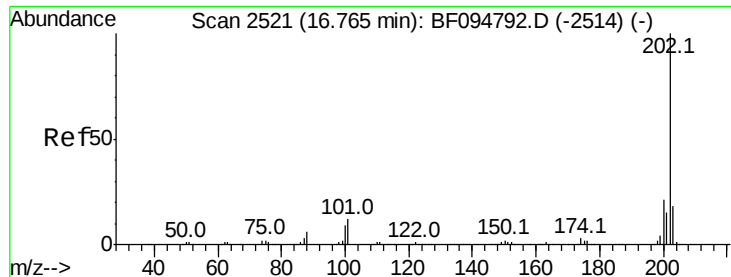
Tot Ion:178 Resp: 145203
Ion Ratio Lower Upper
178 100
176 18.8 16.2 24.4
179 15.7 12.6 19.0



#71
Anthracene
Concen: 12.88 ng
RT: 15.06 min Scan# 2231
Delta R.T. -0.05 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

Tgt Ion:178 Resp: 145203
Ion Ratio Lower Upper
178 100
176 18.8 15.8 23.8
179 15.7 12.7 19.1

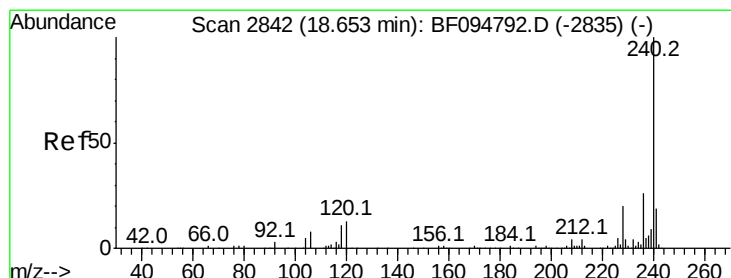
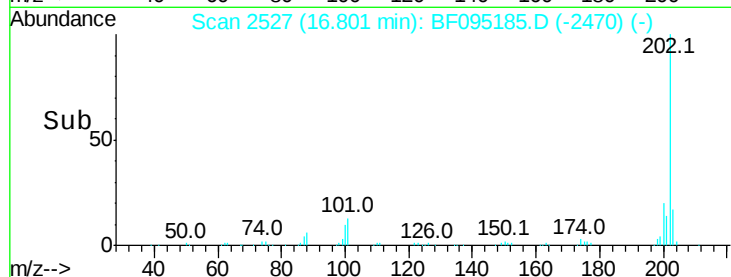
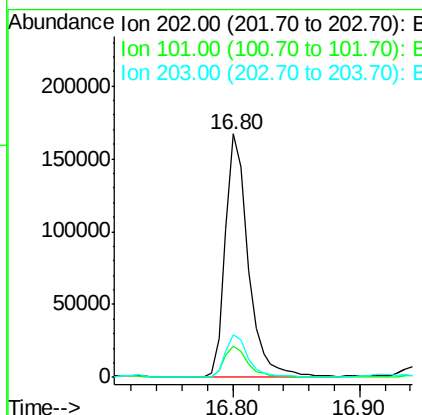
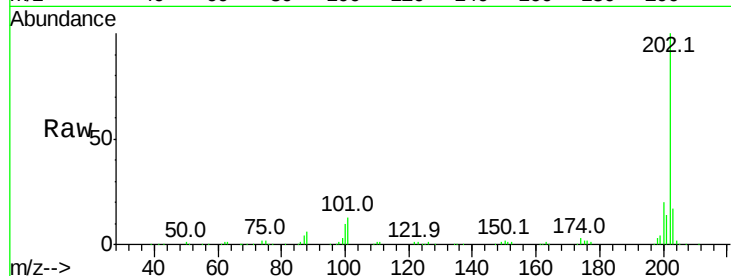




#74
 Fluoranthene
 Concen: 18.71 ng
 RT: 16.80 min Scan# 2527
 Delta R.T. 0.04 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

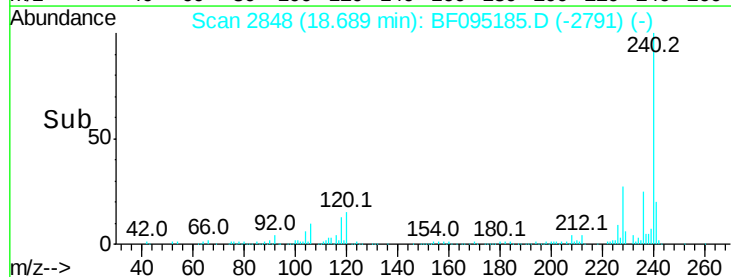
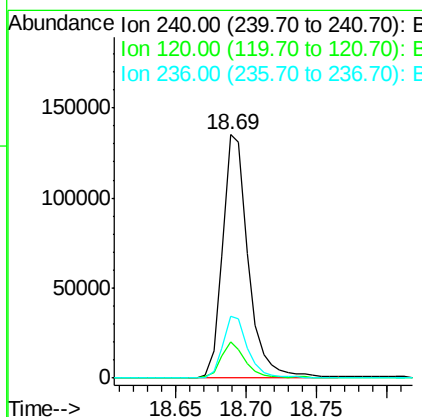
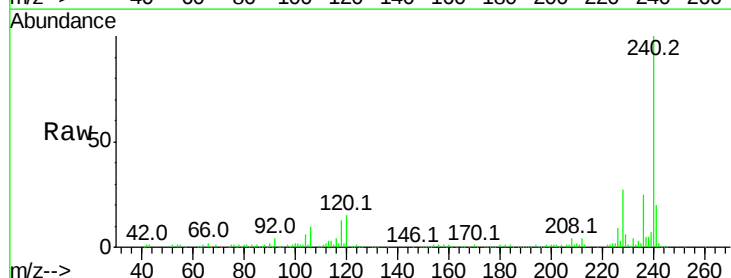
Instrument :
 BNA_F
 ClientSampleId :

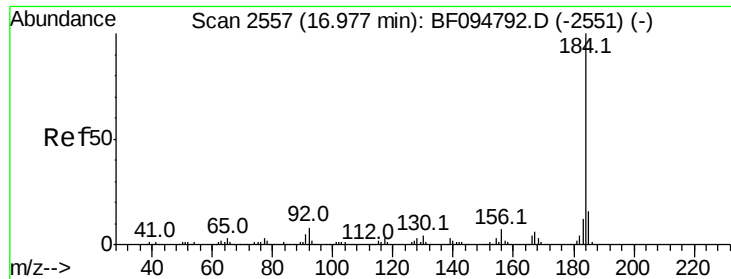
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.0	0.0	33.2
203	17.4	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.69 min Scan# 2848
 Delta R.T. 0.04 min
 Lab File: BF095185.D
 Acq: 17 May 2017 9:18

Tgt Ion	Ratio	Lower	Upper
240	100		
120	15.1	5.8	8.8#
236	25.3	20.5	30.7





#76

Benzidine

Concen: 6.74 ng

RT: 17.07 min Scan# 2573

Delta R.T. 0.09 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

Instrument :

BNA_F

ClientSampled :

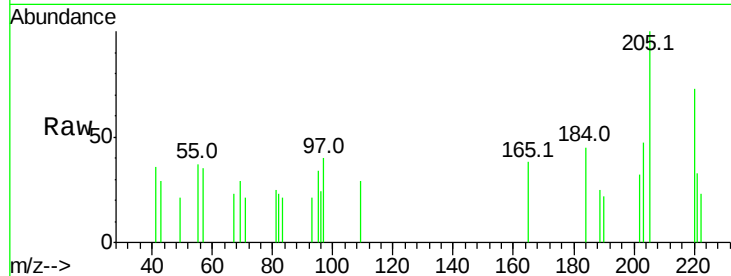
Tot Ion:184 Resp: 819

Ion Ratio Lower Upper

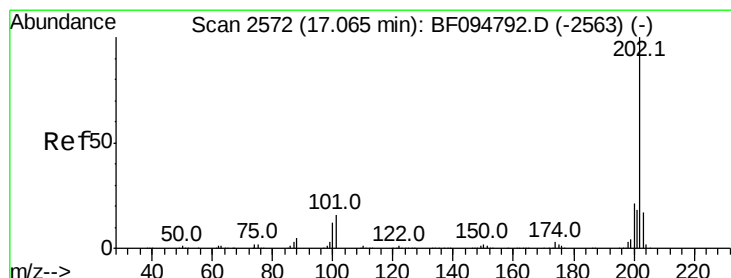
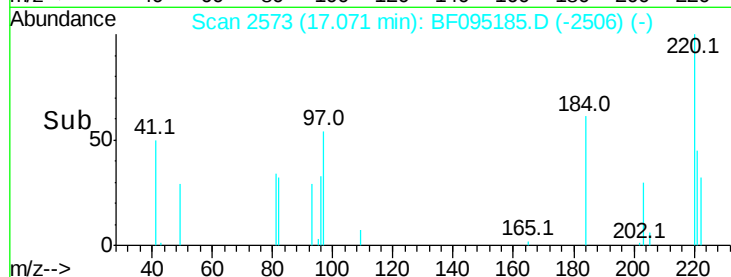
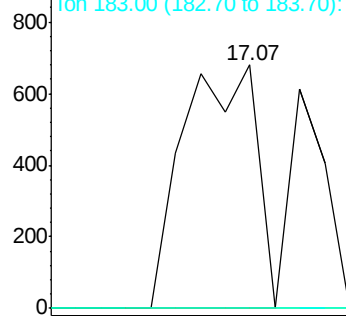
184 100

185 0.0 15.5 23.3#

183 0.0 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E



#77

Pyrene

Concen: 16.37 ng

RT: 17.11 min Scan# 2579

Delta R.T. 0.04 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

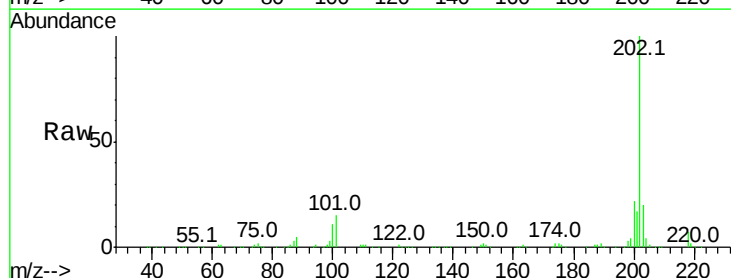
Tgt Ion:202 Resp: 210147

Ion Ratio Lower Upper

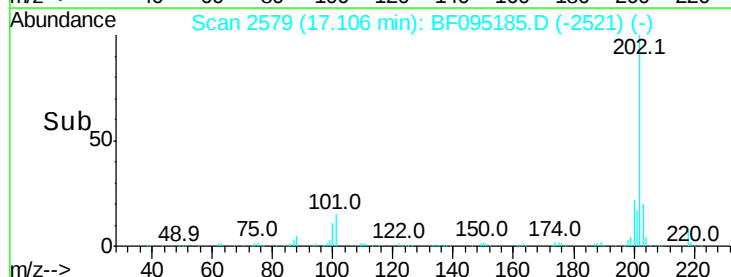
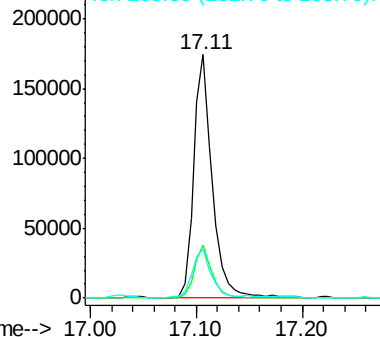
202 100

200 21.5 17.6 26.4

203 19.9 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E





#78

Terphenyl-d14

Concen: 11.69 ng

RT: 17.34 min Scan# 2618

Delta R.T. 0.02 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

Instrument :

BNA_F

ClientSampled :

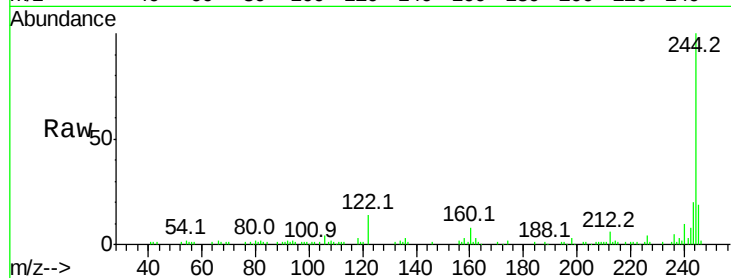
Tot Ion:244 Resp: 91099

Ion Ratio Lower Upper

244 100

212 6.0 6.0 9.0

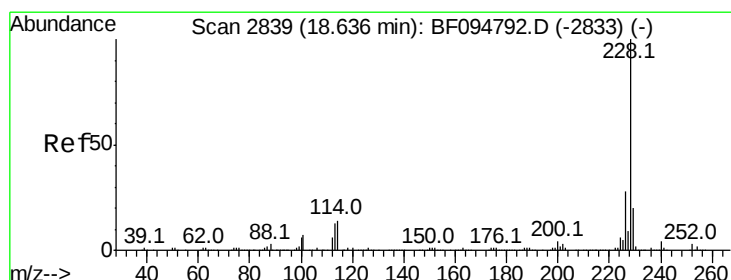
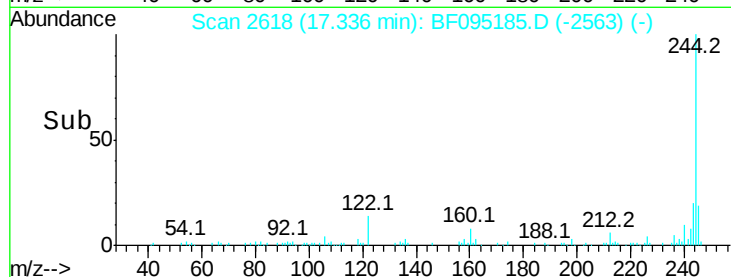
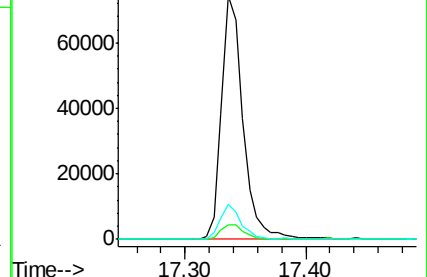
122 14.4 10.3 15.5



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: 8.68 ng

RT: 18.68 min Scan# 2846

Delta R.T. 0.04 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

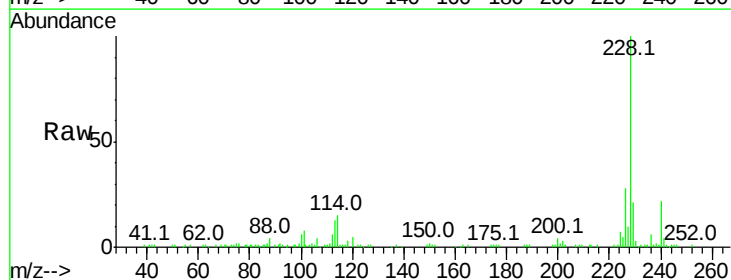
Tgt Ion:228 Resp: 86747

Ion Ratio Lower Upper

228 100

226 27.9 22.6 33.8

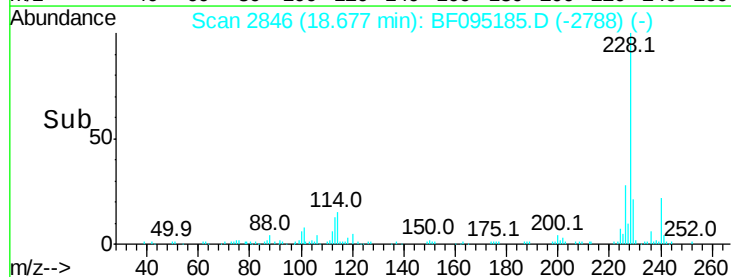
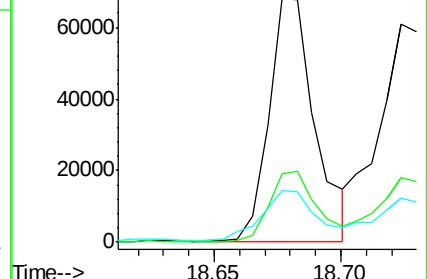
229 21.0 16.3 24.5

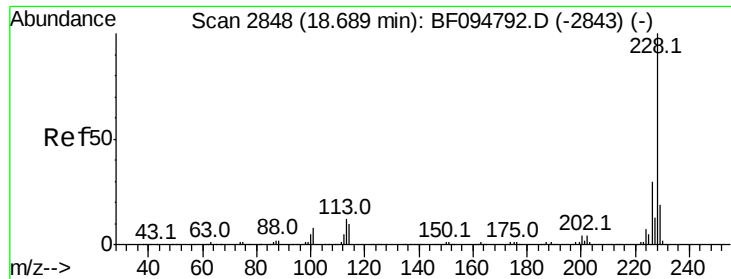


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 9.82 ng

RT: 18.72 min Scan# 2854

Delta R.T. 0.04 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

Instrument :

BNA_F

ClientSampleId :

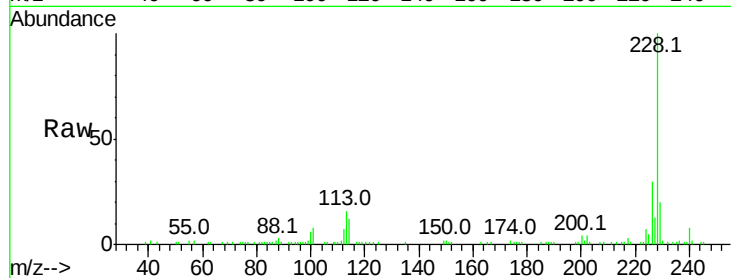
Tot Ion:228 Resp: 94903

Ion Ratio Lower Upper

228 100

226 29.6 24.9 37.3

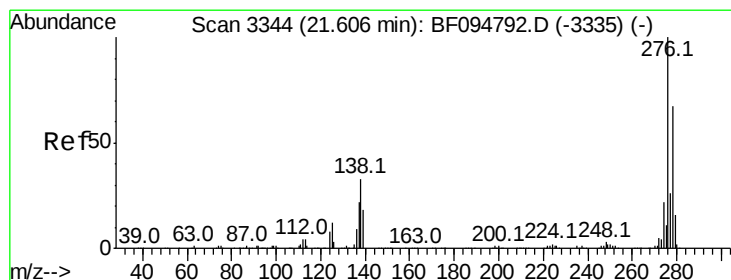
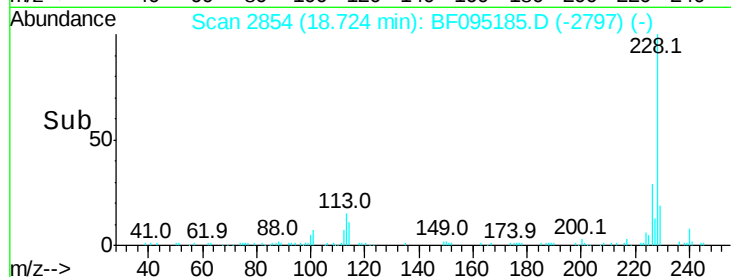
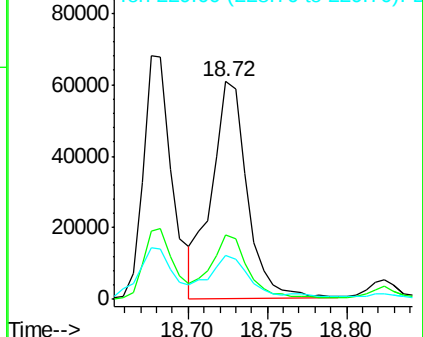
229 20.4 15.8 23.6



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: 3.84 ng

RT: 21.71 min Scan# 3362

Delta R.T. 0.11 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

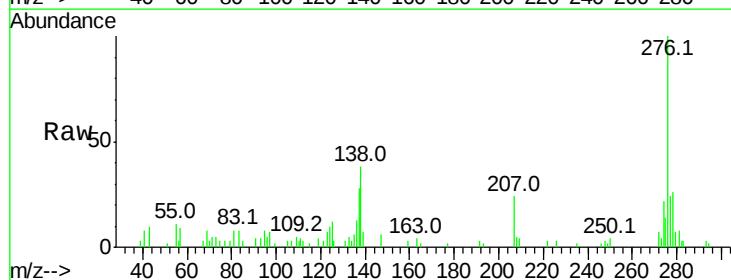
Tgt Ion:276 Resp: 30138

Ion Ratio Lower Upper

276 100

138 36.9 27.8 41.6

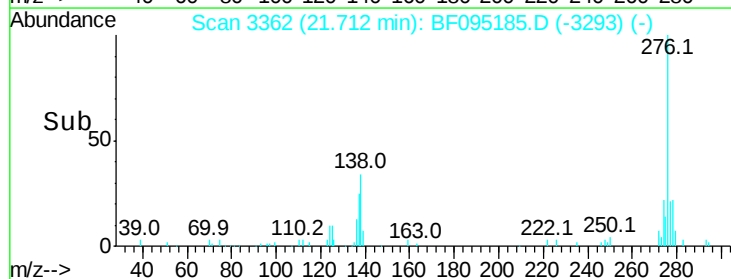
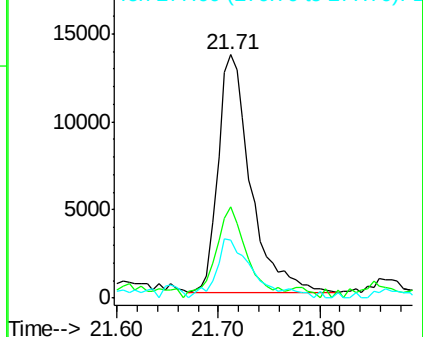
277 25.7 20.2 30.4

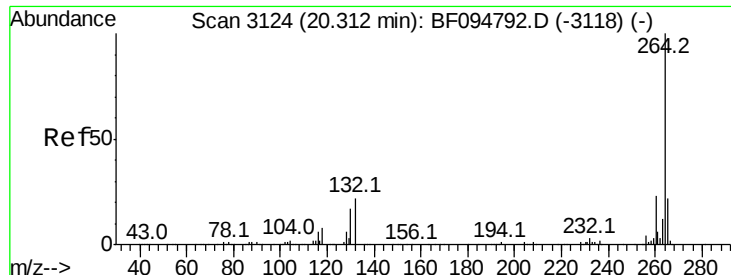


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

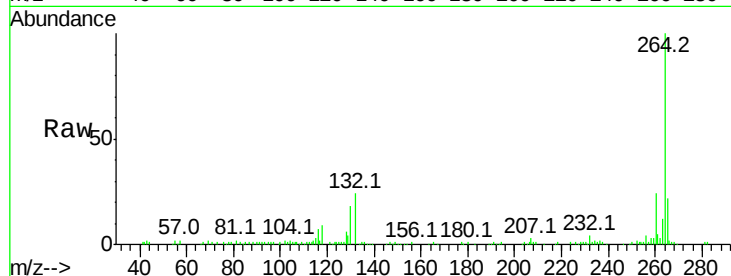




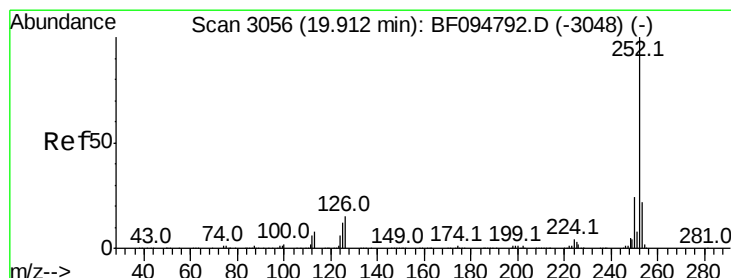
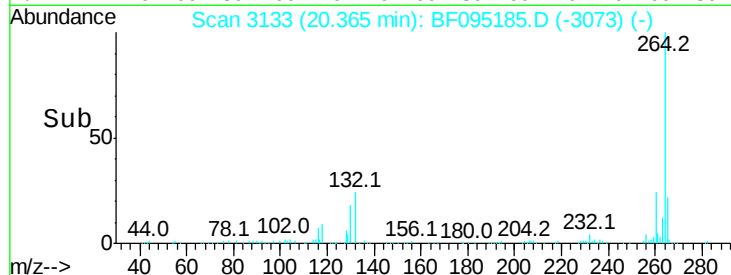
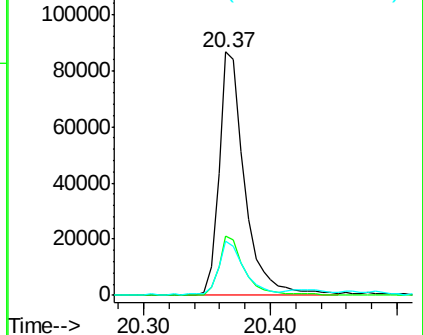
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.37 min Scan# 3133
Delta R.T. 0.05 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	22.0	17.2	25.8

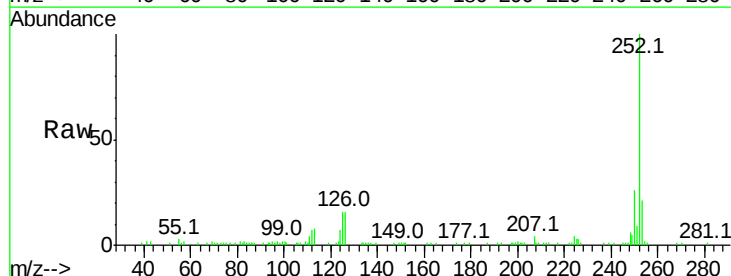


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

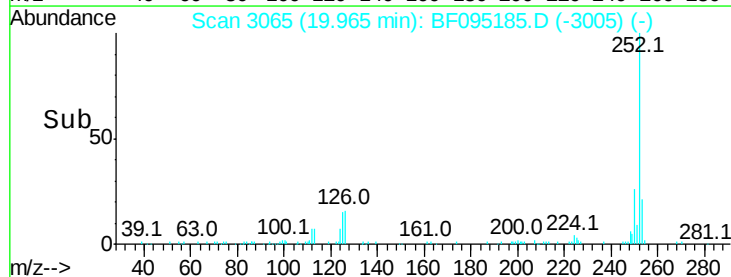
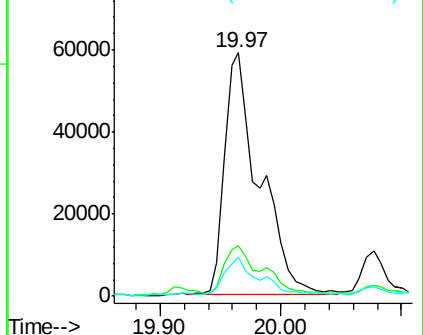


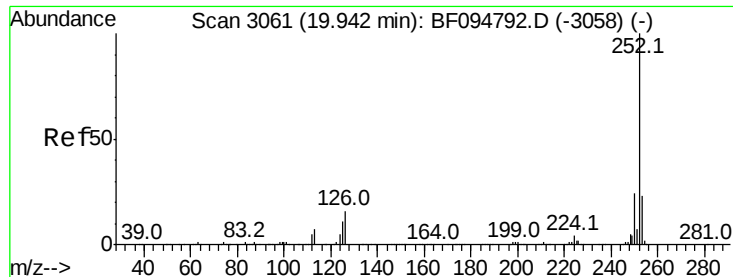
#87
Benzo(b)fluoranthene
Concen: 15.50 ng
RT: 19.97 min Scan# 3065
Delta R.T. 0.05 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.5	18.1	27.1
125	16.0	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

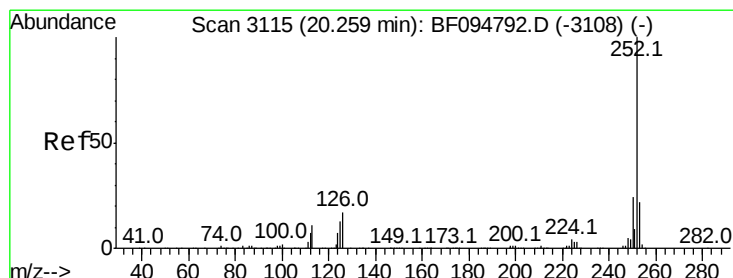
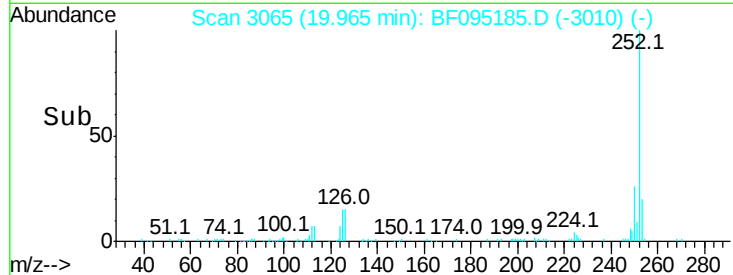
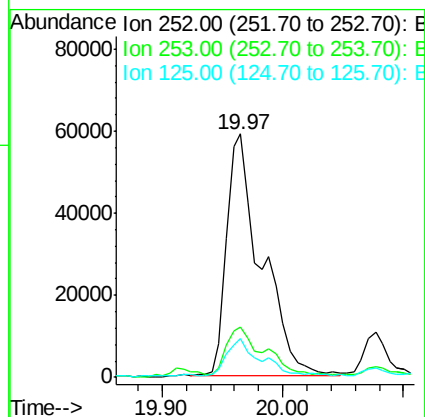
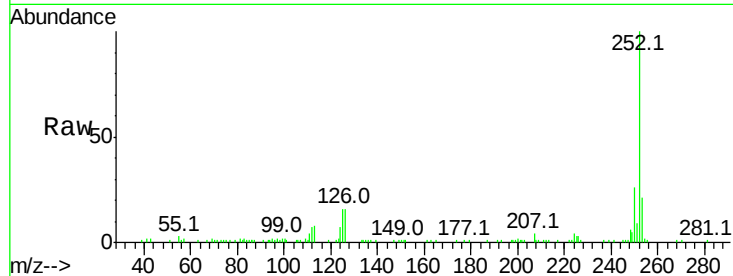




#88
Benzo(k)fluoranthene
Concen: 16.07 ng
RT: 19.97 min Scan# 3065
Delta R.T. 0.02 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

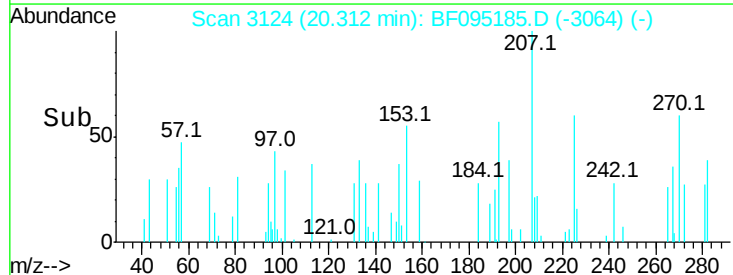
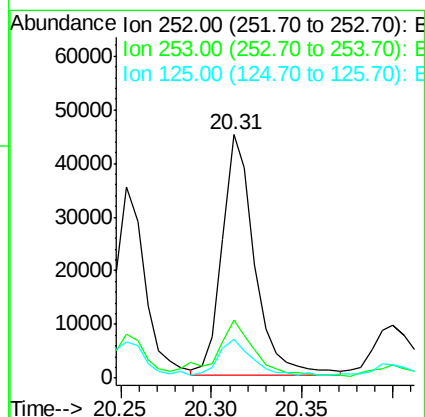
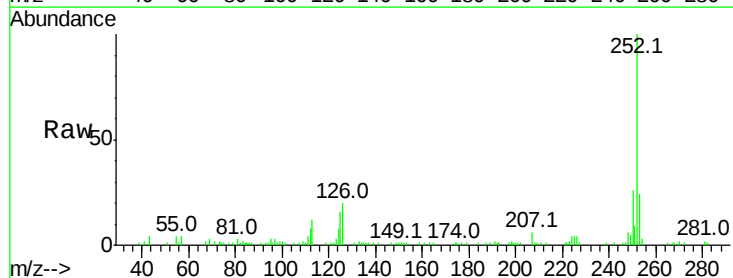
Instrument :
BNA_F
ClientSampleId :

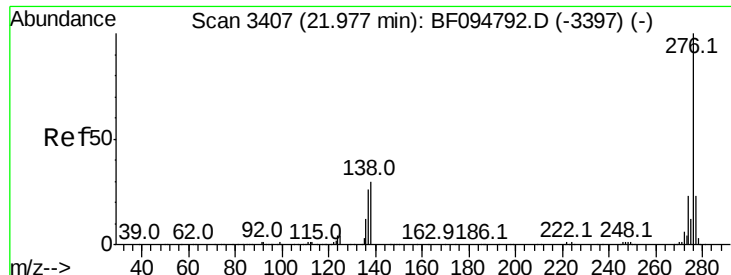
Tot Ion:252 Resp: 117011
Ion Ratio Lower Upper
252 100
253 20.5 18.4 27.6
125 16.0 13.1 19.7



#89
Benzo(a)pyrene
Concen: 8.04 ng
RT: 20.31 min Scan# 3124
Delta R.T. 0.05 min
Lab File: BF095185.D
Acq: 17 May 2017 9:18

Tgt Ion:252 Resp: 55971
Ion Ratio Lower Upper
252 100
253 23.9 17.5 26.3
125 15.8 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 5.61 ng

RT: 22.10 min Scan# 3428

Delta R.T. 0.12 min

Lab File: BF095185.D

Acq: 17 May 2017 9:18

Instrument :

BNA_F

ClientSampleId :

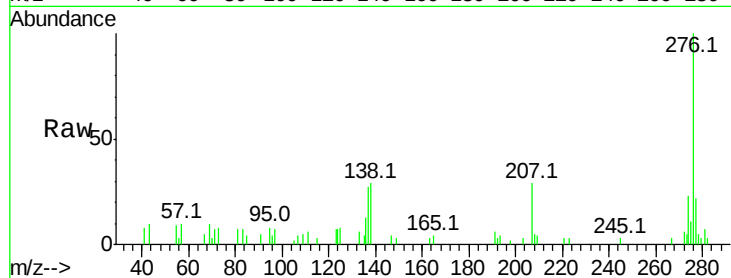
Tot Ion: 276 Resp: 31675

Ion Ratio Lower Upper

276 100

277 21.5 18.6 28.0

138 28.6 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

