

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061417\
 Data File : BF095949.D
 Acq On : 15 Jun 2017 8:24
 Operator : SJ/MA
 Sample : I3663-01DL 2X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 15 09:14:20 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	7.33	152	63559	20.00	ng	-0.06
21) Naphthalene-d8	9.36	136	252767	20.00	ng	-0.07
38) Acenaphthene-d10	12.19	164	99794	20.00	ng	-0.07
63) Phenanthrene-d10	14.58	188	151410	20.00	ng	-0.06
75) Chrysene-d12	18.30	240	125785	20.00	ng	-0.05
86) Perylene-d12	19.97	264	88251	20.00	ng	-0.05

System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	73267	18.37	ng	-0.02
7) Phenol-d6	6.92	99	248783	52.10	ng	-0.04
23) Nitrobenzene-d5	8.25	82	150239	36.91	ng	-0.07
41) 2,4,6-Tribromophenol	13.51	330	1639	1.86	ng	-0.04
44) 2-Fluorobiphenyl	11.14	172	292452	40.78	ng	-0.08
78) Terphenyl-d14	16.96	244	193131	38.10	ng	-0.06

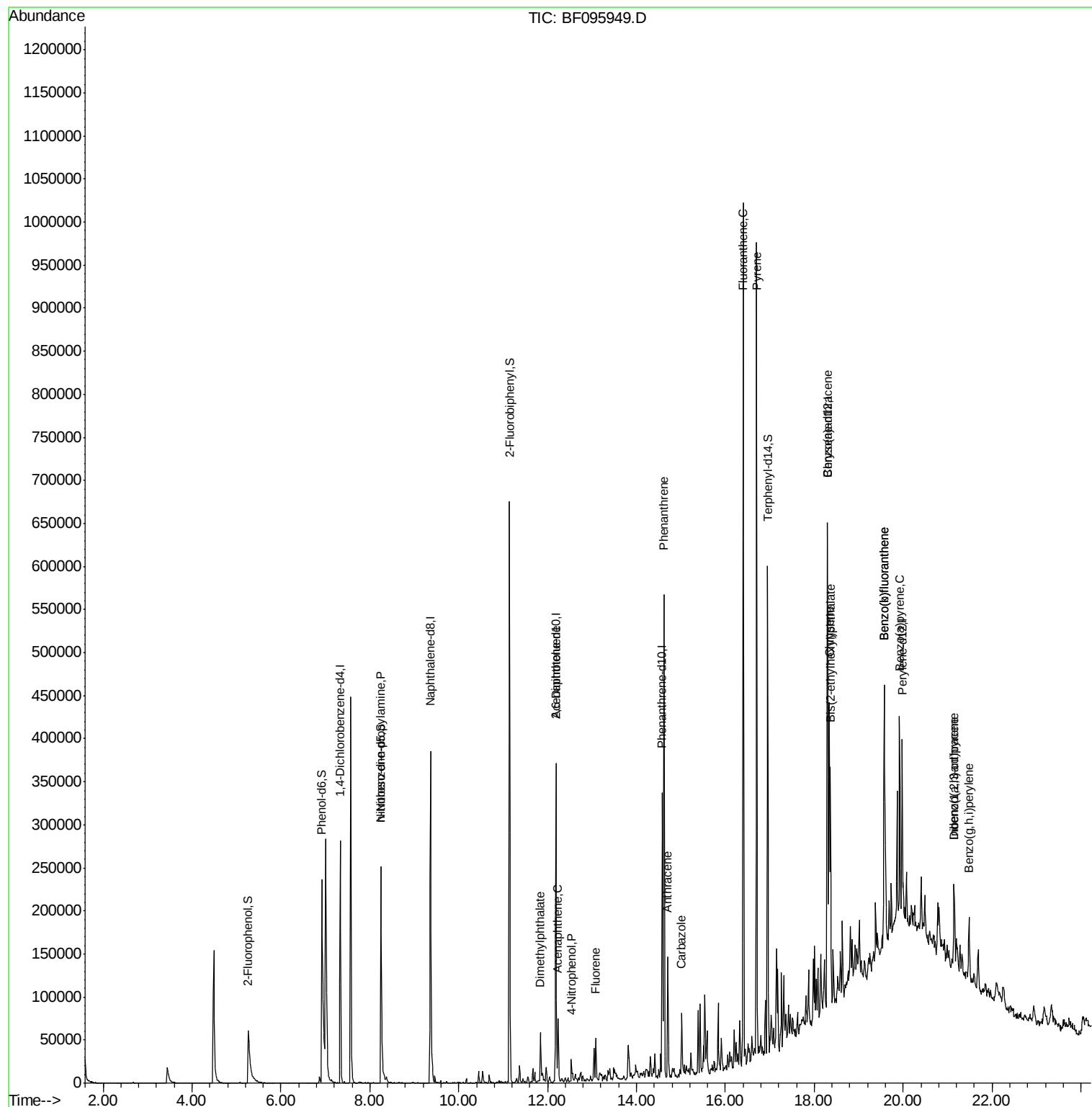
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.25	70	18472	6.10	ng	# 69
49) Dimethylphthalate	11.84	163	33401	4.41	ng	99
50) 2,6-Dinitrotoluene	12.19	165	12958	7.84	ng	# 31
51) Acenaphthene	12.24	154	18077	2.85	ng	99
55) 4-Nitrophenol	12.53	139	6128	9.76	ng	# 25
57) Fluorene	13.08	166	18696	2.41	ng	95
70) Phenanthrene	14.62	178	298573	34.18	ng	99
71) Anthracene	14.70	178	84770	9.29	ng	95
72) Carbazole	15.02	167	46178	5.20	ng	95
74) Fluoranthene	16.40	202	502820	58.15	ng	99
77) Pyrene	16.70	202	395245	42.11	ng	96
80) Benzo(a)anthracene	18.29	228	186321	25.48	ng	97
82) Chrysene	18.34	228	167964	22.98	ng	98
83) Bis(2-ethylhexyl)phthalate	18.37	149	131713	22.78	ng	# 98
85) Indeno(1,2,3-cd)pyrene	21.15	276	56756	9.08	ng	91
87) Benzo(b)fluoranthene	19.57	252	213522	38.64	ng	# 96
88) Benzo(k)fluoranthene	19.57	252	213522	40.42	ng	97
89) Benzo(a)pyrene	19.92	252	102790	20.24	ng	98
90) Dibenzo(a,h)anthracene	21.14	278	20796	4.83	ng	# 89
91) Benzo(a,h,i)perylene	21.48	276	51976	11.83	ng	96

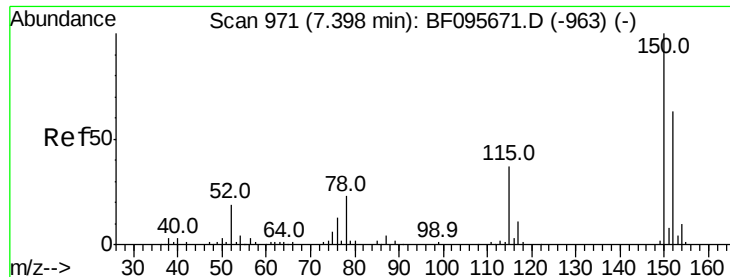
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.33 min Scan# 977

Delta R.T. -0.06 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampleId :

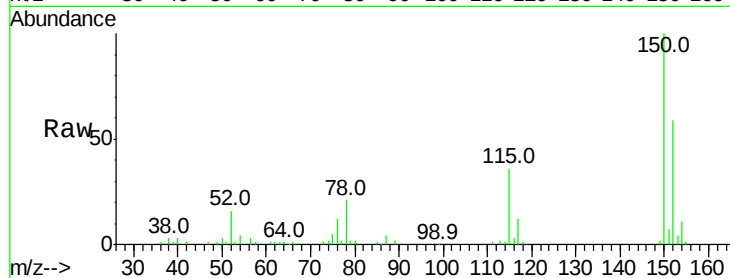
Tot Ion:152 Resp: 63559

Ion Ratio Lower Upper

152 100

150 170.8 126.2 189.2

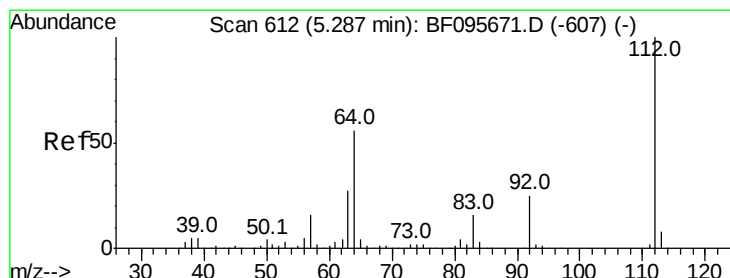
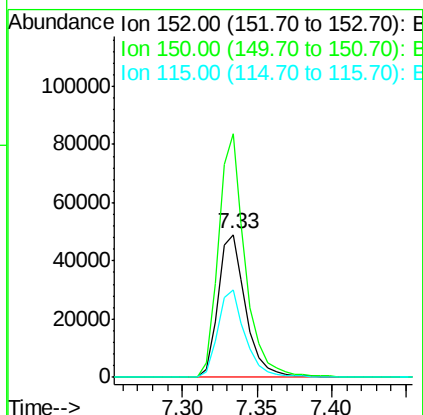
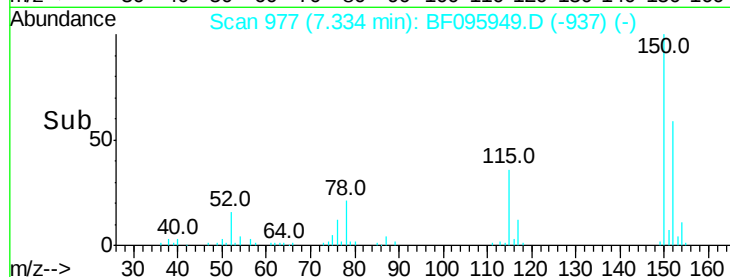
115 61.8 52.2 78.2



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: 18.37 ng

RT: 5.27 min Scan# 626

Delta R.T. -0.02 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

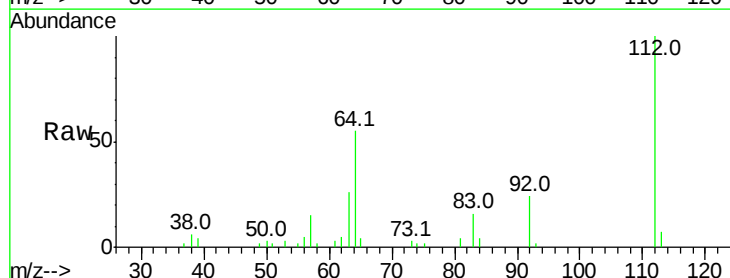
Tgt Ion:112 Resp: 73267

Ion Ratio Lower Upper

112 100

64 54.5 46.0 69.0

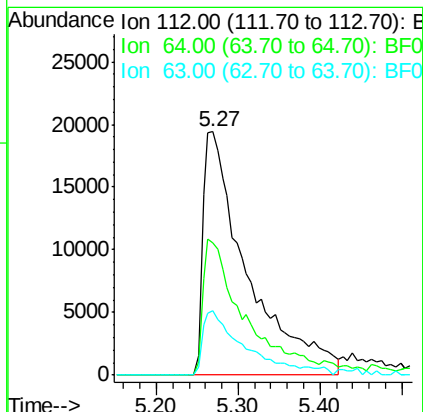
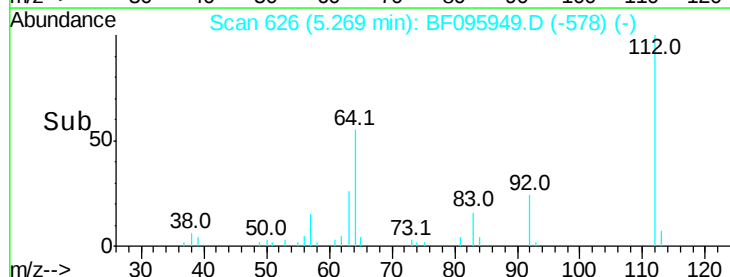
63 26.3 23.4 35.0



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: 52.10 ng

RT: 6.92 min Scan# 906

Delta R.T. -0.04 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampleId :

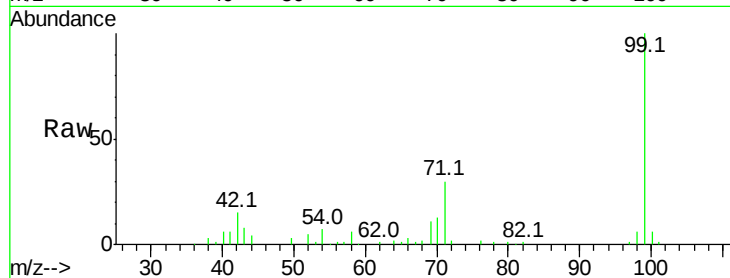
Tot Ion: 99 Resp: 248783

Ion Ratio Lower Upper

99 100

42 15.5 13.5 20.3

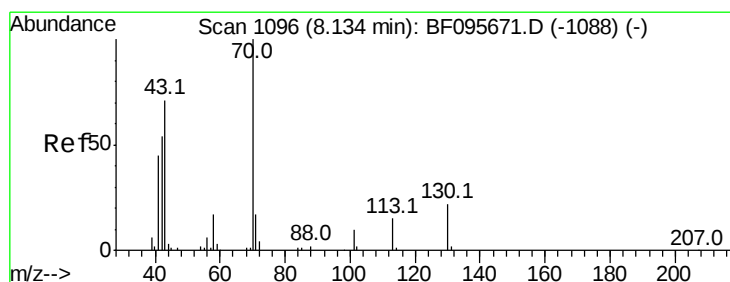
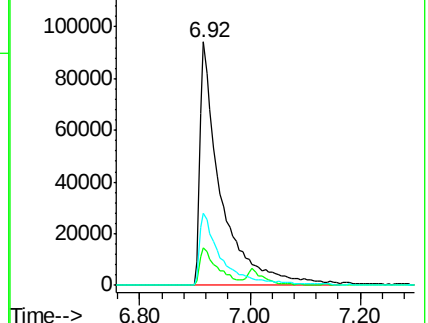
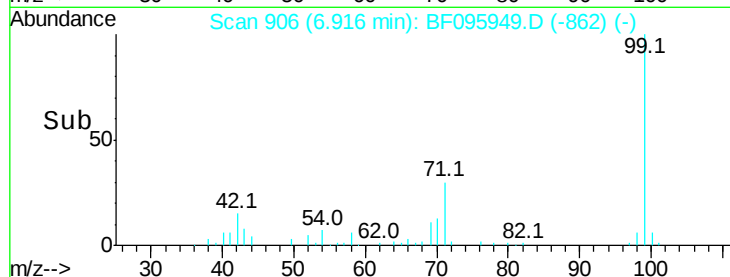
71 29.8 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.10 ng

RT: 8.25 min Scan# 1133

Delta R.T. 0.12 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Tgt Ion: 70 Resp: 18472

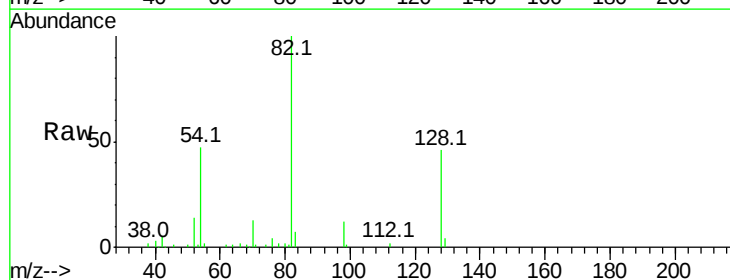
Ion Ratio Lower Upper

70 100

42 38.5 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

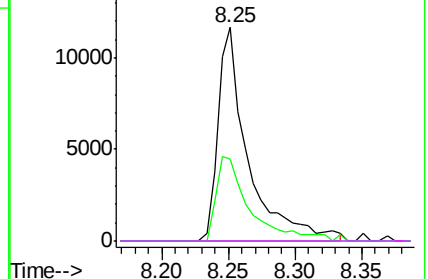
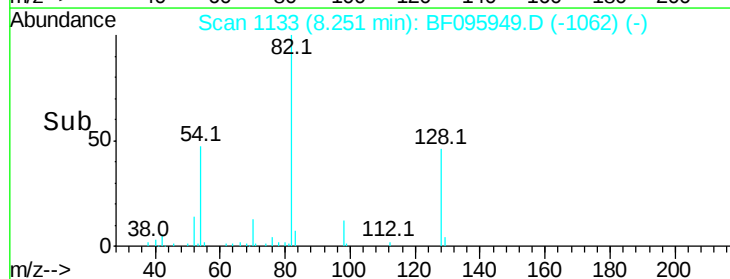


Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 9.36 min Scan# 1322

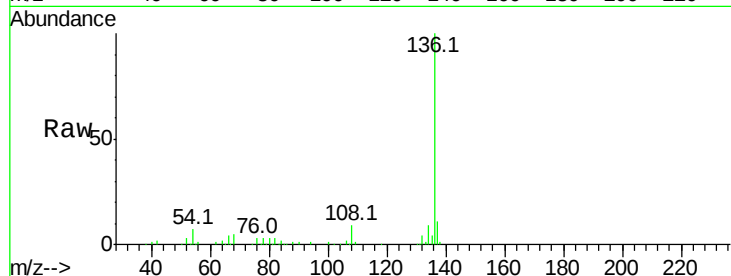
Delta R.T. -0.07 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:136	Resp:	252767
Ion Ratio	Lower	Upper
136	100	
137	11.1	8.5 12.7
54	7.3	4.9 7.3
68	5.5	4.1 6.1

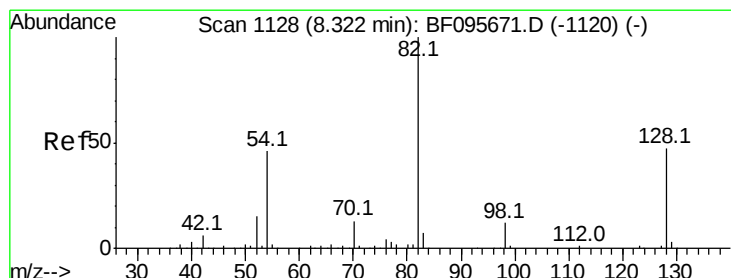
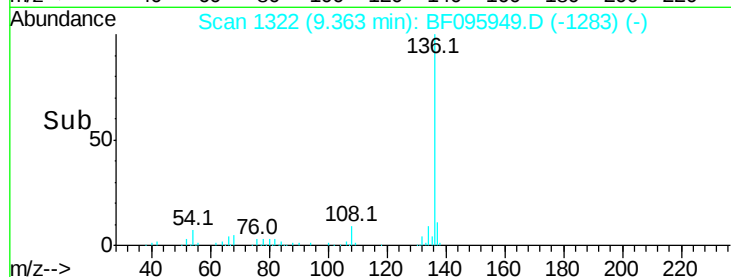
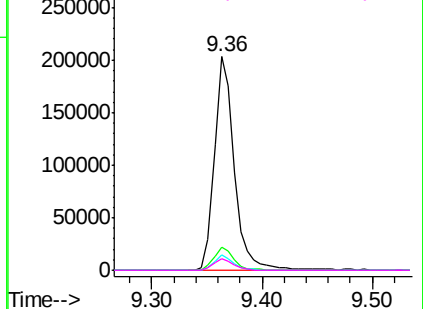


Abundance Ion 136.00 (135.70 to 136.70): E

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: 36.91 ng

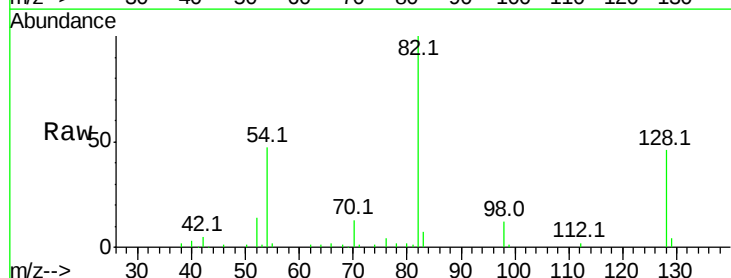
RT: 8.25 min Scan# 1133

Delta R.T. -0.07 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

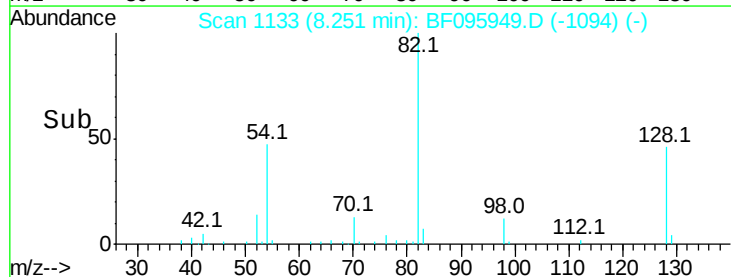
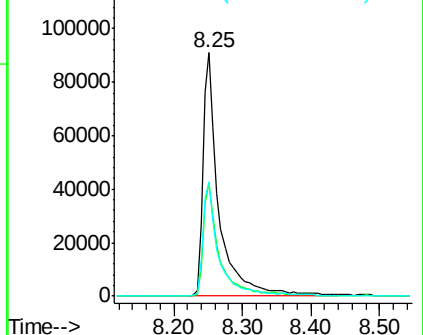
Tgt Ion: 82	Resp:	150239
Ion Ratio	Lower	Upper
82	100	
128	46.2	34.0 51.0
54	46.8	42.2 63.2

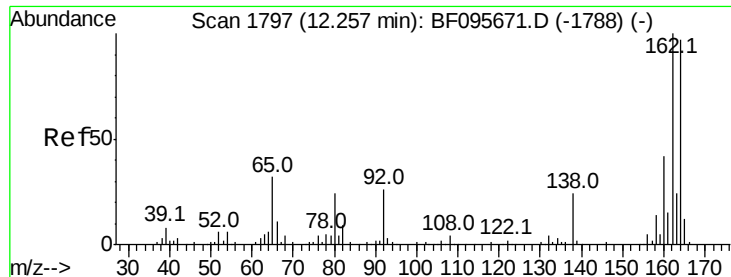


Abundance Ion 82.00 (81.70 to 82.70): BF0

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: 12.19 min Scan# 1802

Delta R.T. -0.07 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampleId :

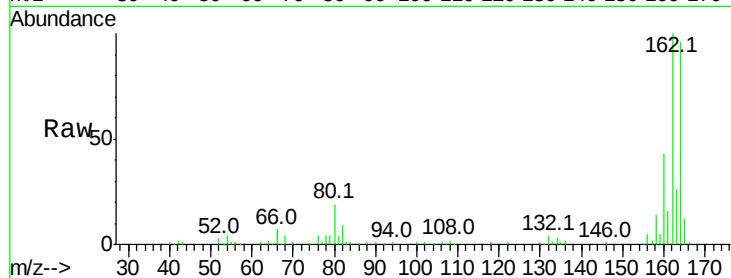
Tot Ion:164 Resp: 99794

Ion Ratio Lower Upper

164 100

162 104.0 82.6 123.8

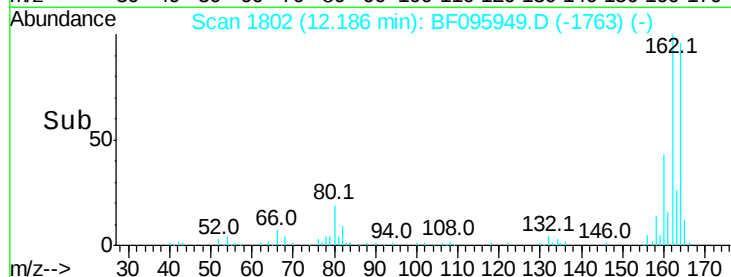
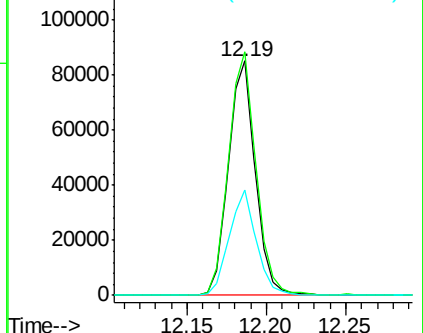
160 45.1 36.2 54.2



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: 1.86 ng

RT: 13.51 min Scan# 2027

Delta R.T. -0.04 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

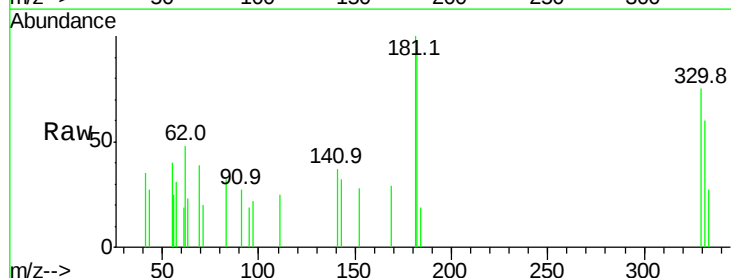
Tgt Ion:330 Resp: 1639

Ion Ratio Lower Upper

330 100

332 103.7 76.6 115.0

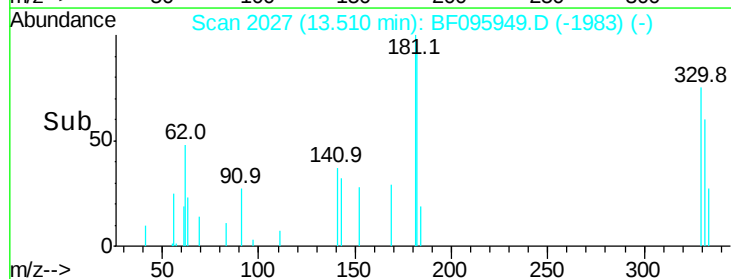
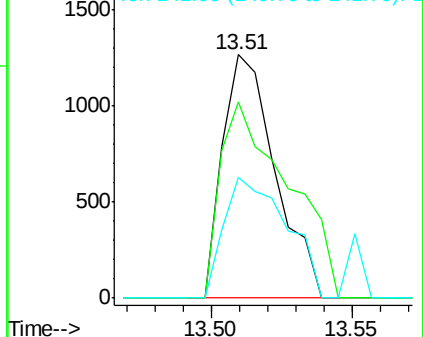
141 58.9 31.4 47.2#



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

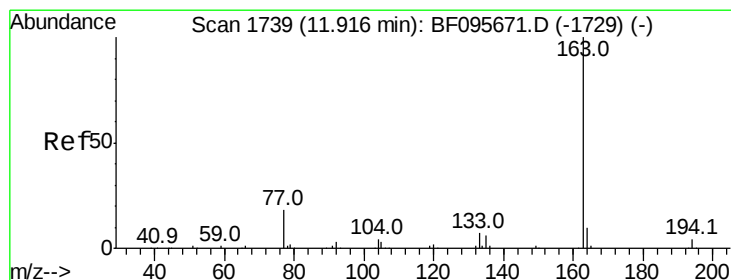
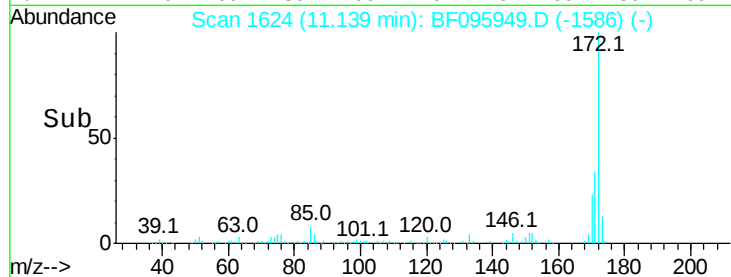
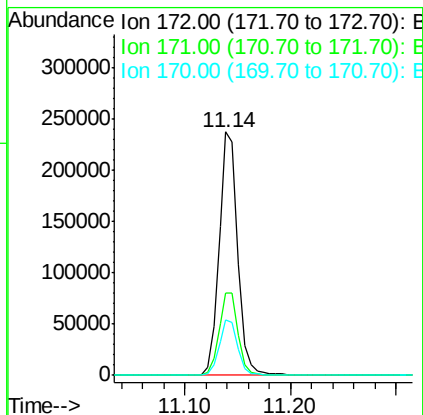
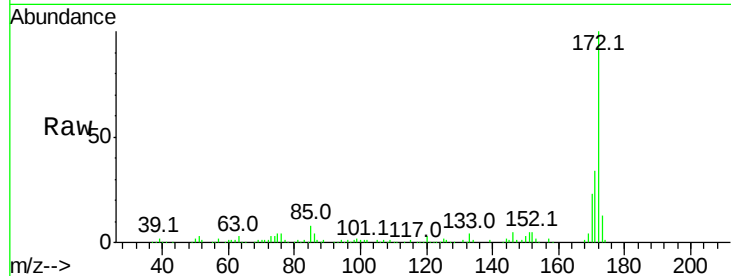




#44
2-Fluorobiphenyl
Concen: 40.78 ng
RT: 11.14 min Scan# 1624
Delta R.T. -0.08 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

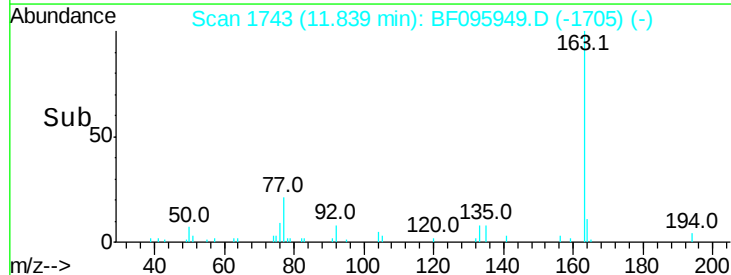
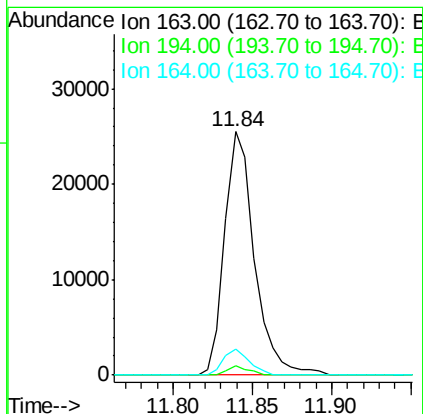
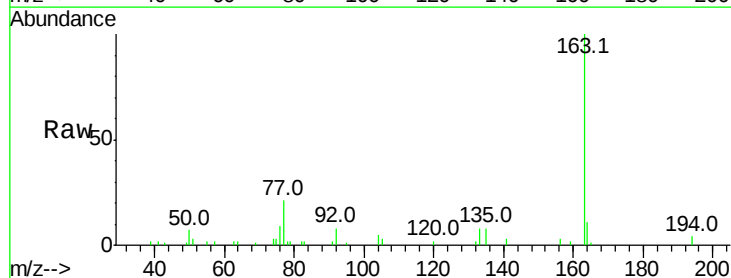
Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	34.0	29.6	44.4
170	23.0	19.8	29.8



#49
Dimethylphthalate
Concen: 4.41 ng
RT: 11.84 min Scan# 1743
Delta R.T. -0.08 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.7	2.6	4.0
164	10.9	8.4	12.6

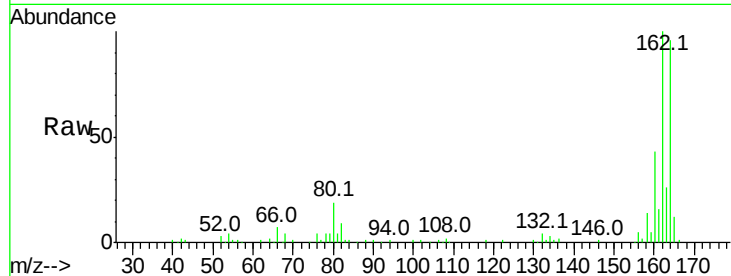




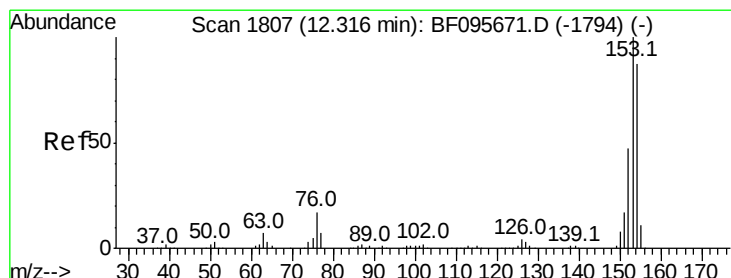
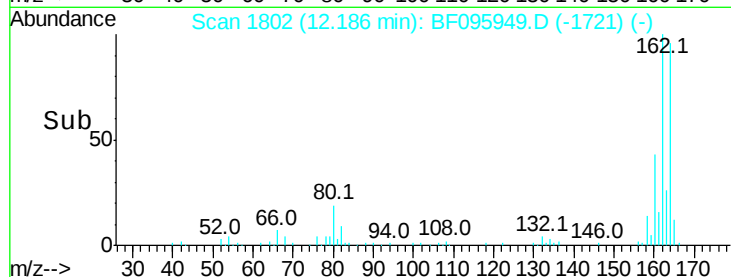
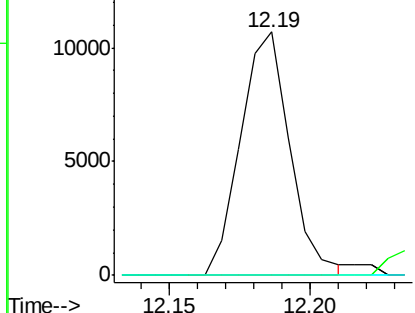
#50
 2,6-Dinitrotoluene
 Concen: 7.84 ng
 RT: 12.19 min Scan# 1802
 Delta R.T. 0.18 min
 Lab File: BF095949.D
 Acq: 15 Jun 2017 8:24

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:165 Resp: 12958
 Ion Ratio Lower Upper
 165 100
 63 0.0 34.3 51.5#
 89 0.0 37.1 55.7#

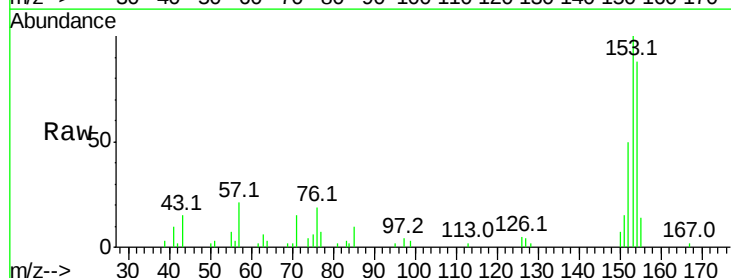


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

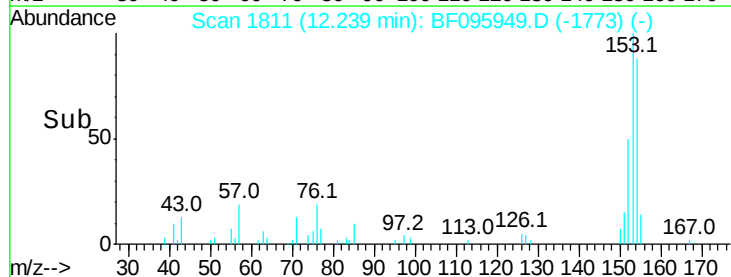
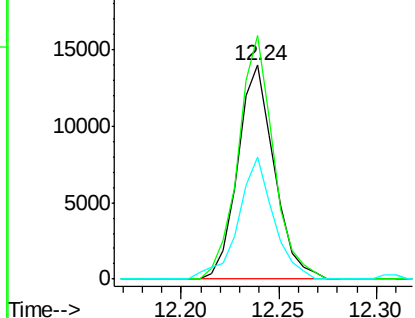


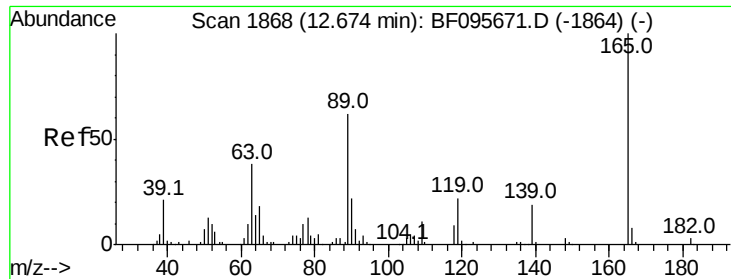
#51
 Acenaphthene
 Concen: 2.85 ng
 RT: 12.24 min Scan# 1811
 Delta R.T. -0.08 min
 Lab File: BF095949.D
 Acq: 15 Jun 2017 8:24

Tgt Ion:154 Resp: 18077
 Ion Ratio Lower Upper
 154 100
 153 113.7 90.5 135.7
 152 56.9 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: 9.76 ng

RT: 12.53 min Scan# 1861

Delta R.T. -0.14 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampleId :

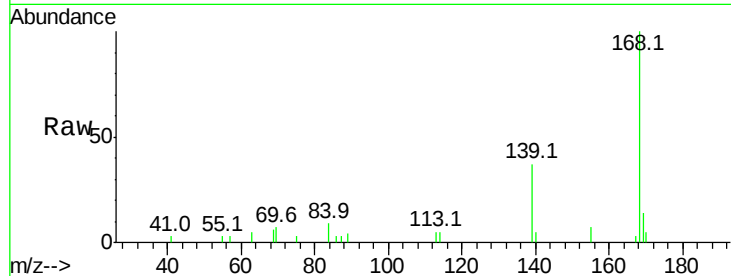
Tot Ion:139 Resp: 6128

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

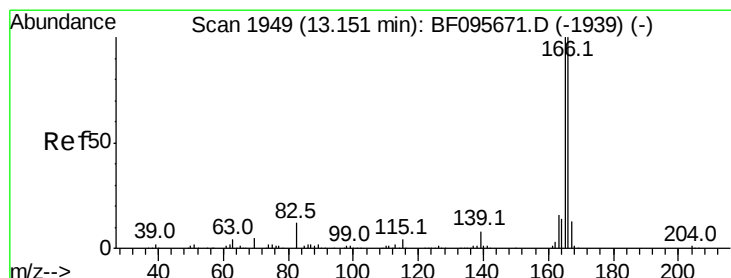
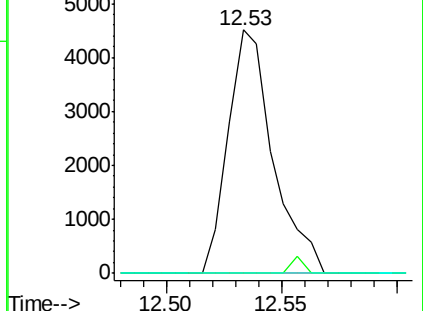
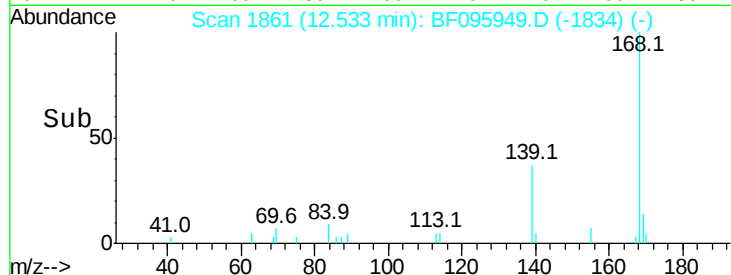
65 0.0 31.4 71.4#



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: 2.41 ng

RT: 13.08 min Scan# 1954

Delta R.T. -0.07 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

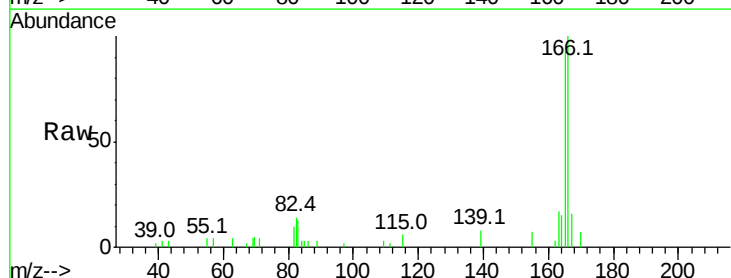
Tgt Ion:166 Resp: 18696

Ion Ratio Lower Upper

166 100

165 93.4 78.8 118.2

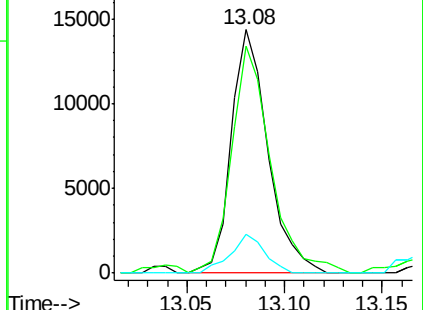
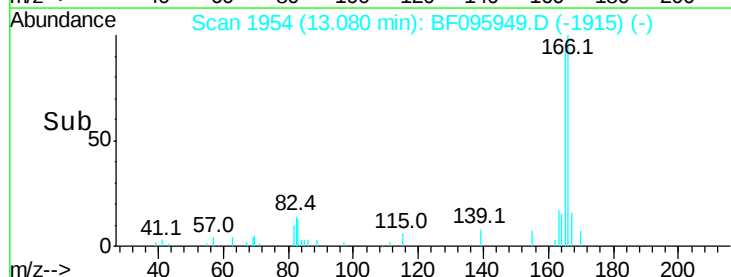
167 15.8 10.6 16.0

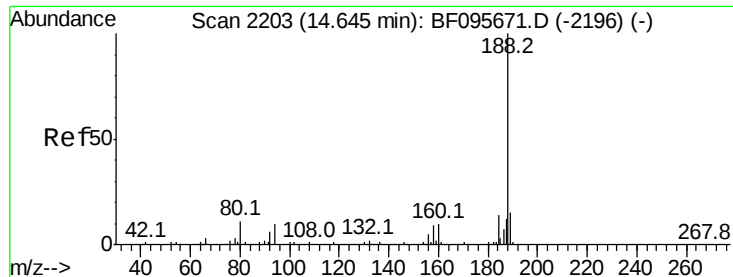


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

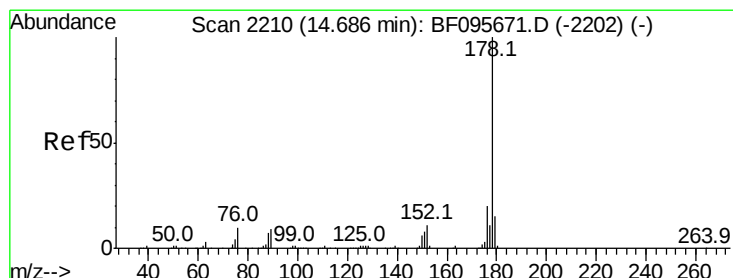
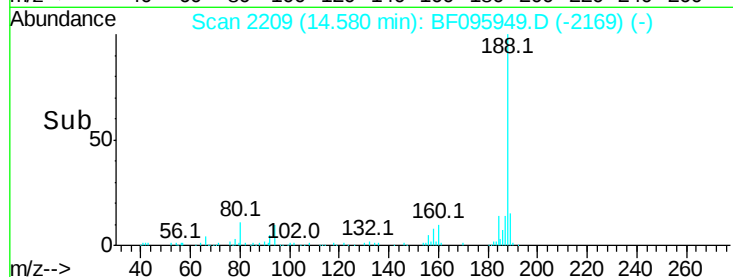
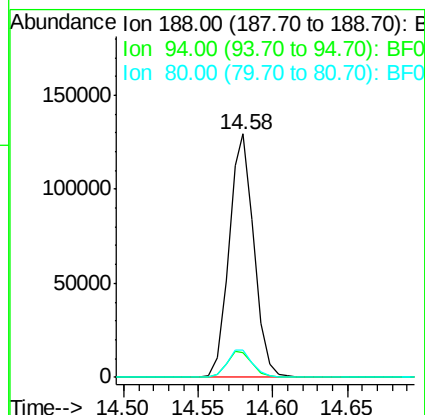
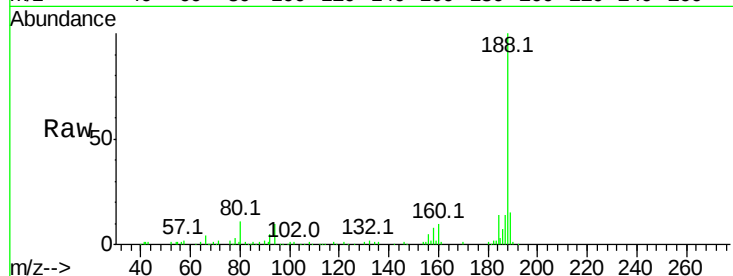




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.58 min Scan# 2209
Delta R.T. -0.06 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

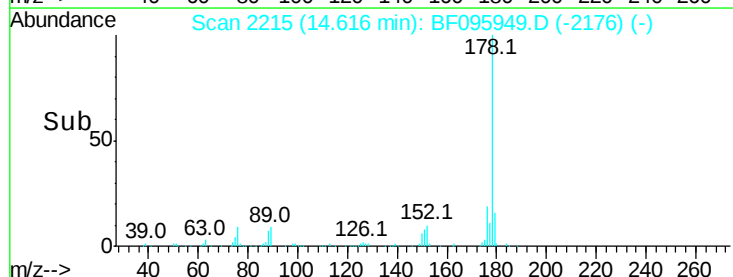
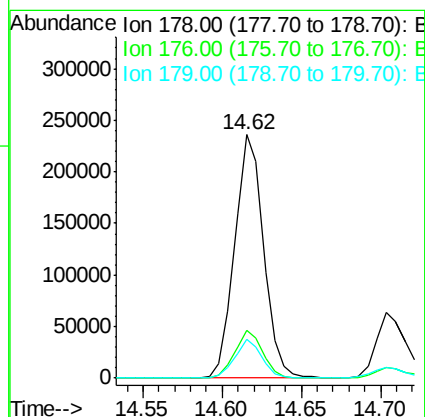
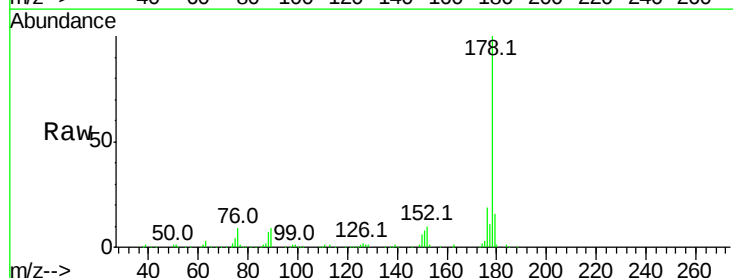
Instrument :
BNA_F
ClientSampleId :

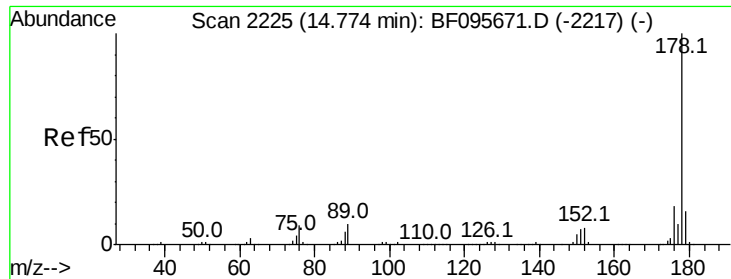
Tot Ion:188 Resp: 151410
Ion Ratio Lower Upper
188 100
94 10.0 9.4 14.2
80 11.2 10.2 15.2



#70
Phenanthrene
Concen: 34.18 ng
RT: 14.62 min Scan# 2215
Delta R.T. -0.07 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Tgt Ion:178 Resp: 298573
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.7 12.6 19.0

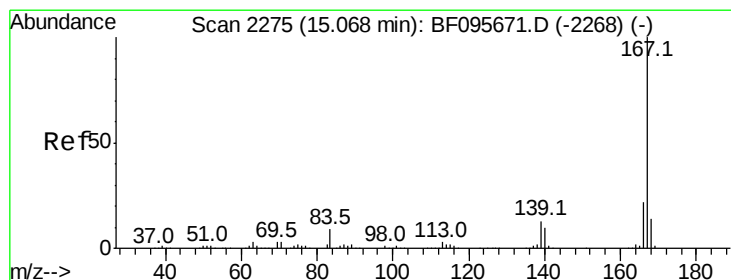
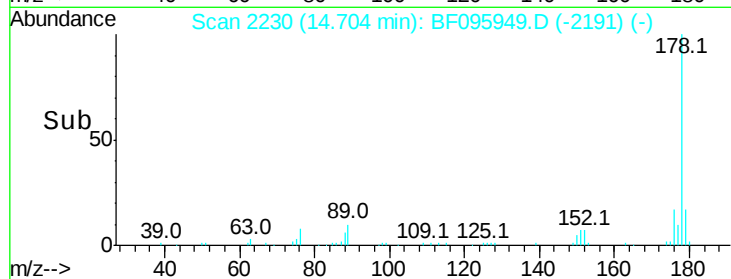
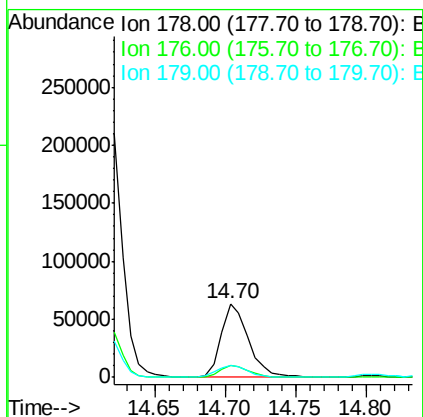
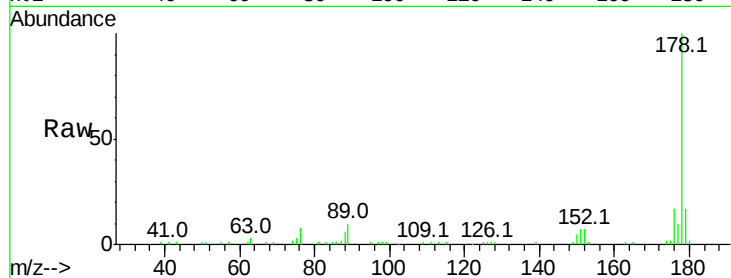




#71
 Anthracene
 Concen: 9.29 ng
 RT: 14.70 min Scan# 2230
 Delta R.T. -0.07 min
 Lab File: BF095949.D
 Acq: 15 Jun 2017 8:24

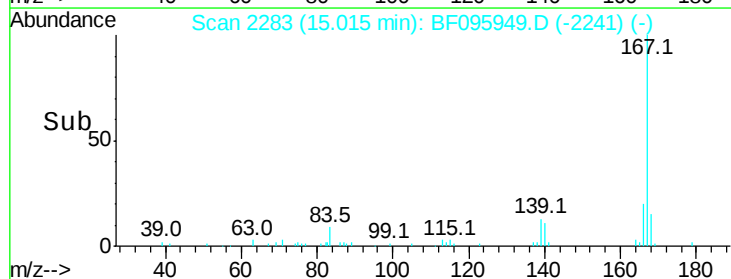
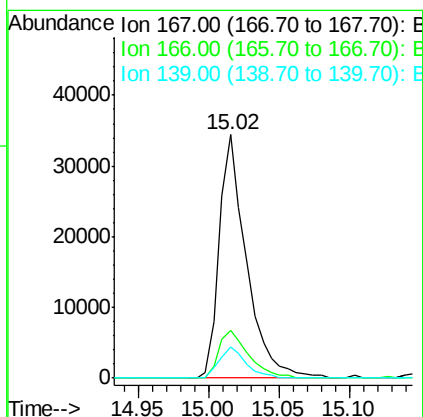
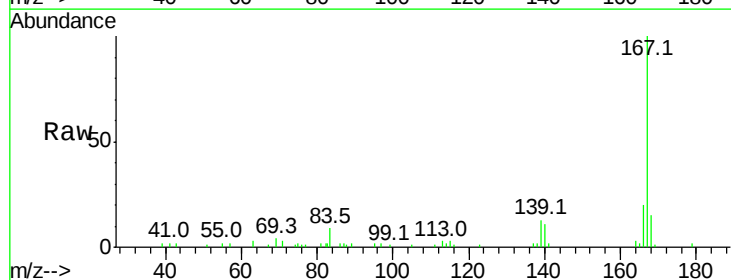
Instrument :
 BNA_F
 ClientSampleId :

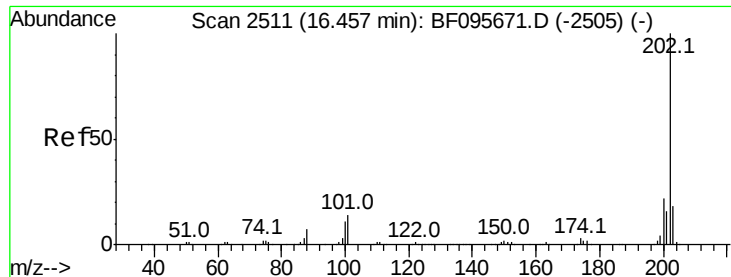
Tot Ion:178 Resp: 84770
 Ion Ratio Lower Upper
 178 100
 176 16.9 15.8 23.8
 179 17.0 12.7 19.1



#72
 Carbazole
 Concen: 5.20 ng
 RT: 15.02 min Scan# 2283
 Delta R.T. -0.05 min
 Lab File: BF095949.D
 Acq: 15 Jun 2017 8:24

Tgt Ion:167 Resp: 46178
 Ion Ratio Lower Upper
 167 100
 166 19.7 18.1 27.1
 139 13.0 11.7 17.5

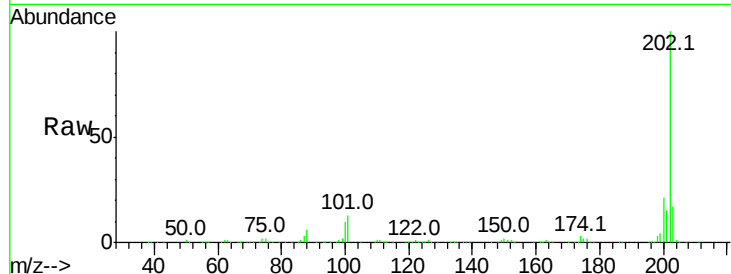




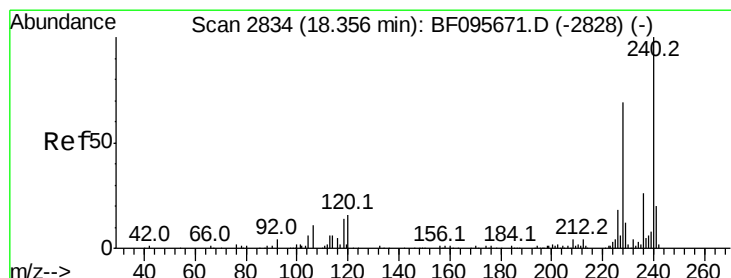
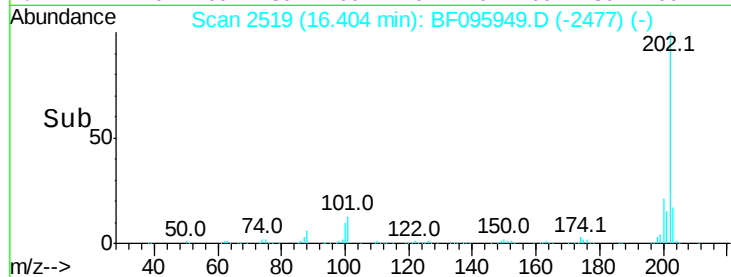
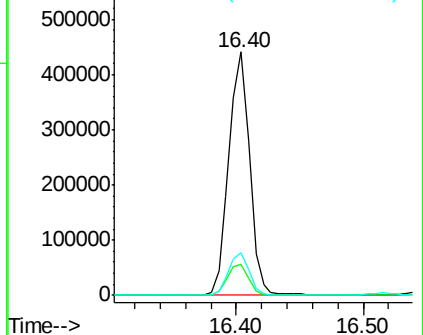
#74
 Fluoranthene
 Concen: 58.15 ng
 RT: 16.40 min Scan# 2519
 Delta R.T. -0.05 min
 Lab File: BF095949.D
 Acq: 15 Jun 2017 8:24

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	33.2
203	17.3	0.0	38.1

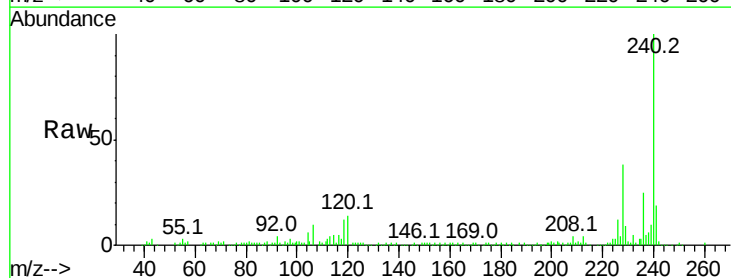


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

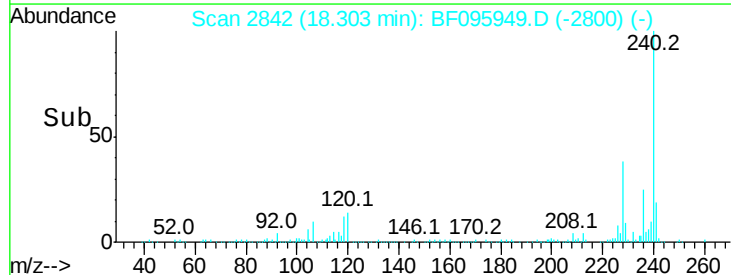
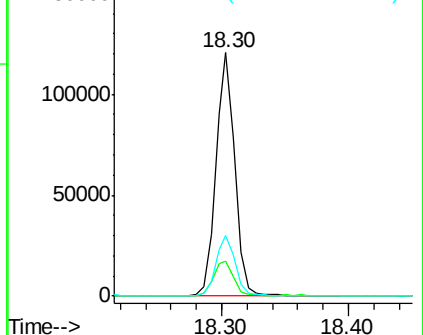


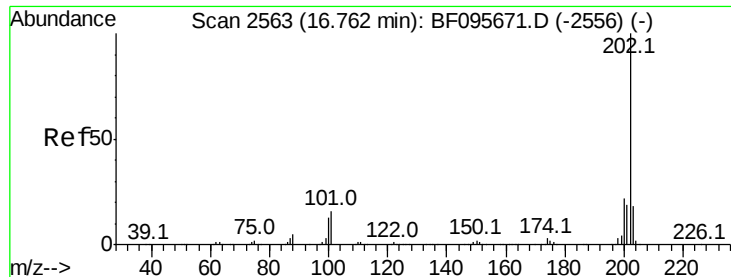
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.30 min Scan# 2842
 Delta R.T. -0.05 min
 Lab File: BF095949.D
 Acq: 15 Jun 2017 8:24

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.5	5.8	8.8#
236	25.0	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: 42.11 ng

RT: 16.70 min Scan# 2570

Delta R.T. -0.06 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampleId :

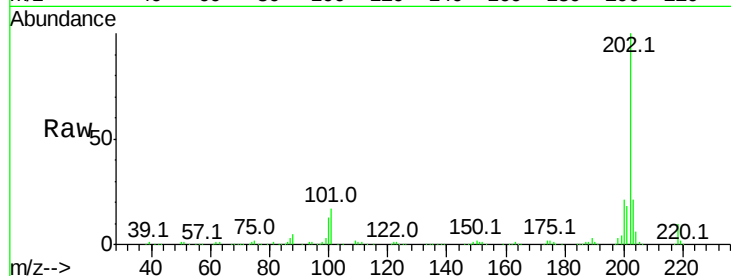
Tot Ion:202 Resp: 395245

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

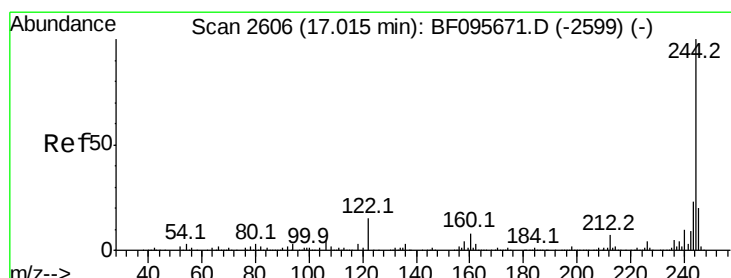
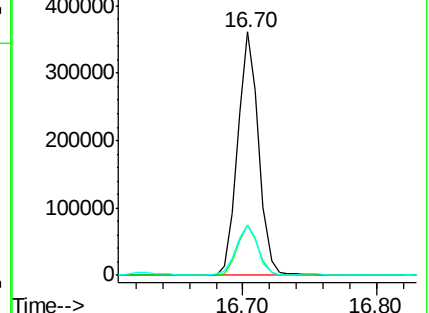
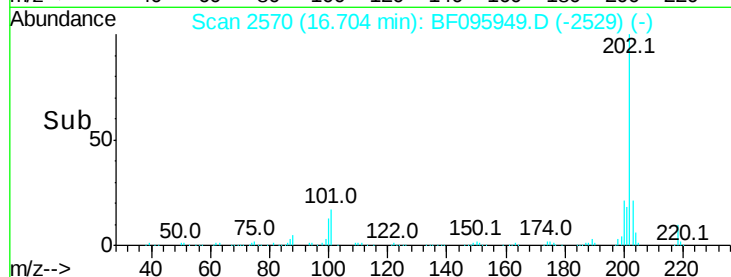
203 20.6 14.4 21.6



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: 38.10 ng

RT: 16.96 min Scan# 2613

Delta R.T. -0.06 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

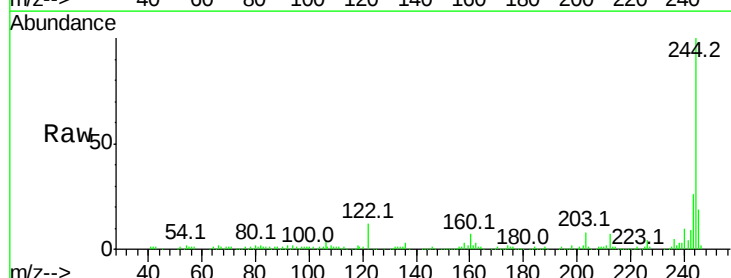
Tgt Ion:244 Resp: 193131

Ion Ratio Lower Upper

244 100

212 7.3 6.0 9.0

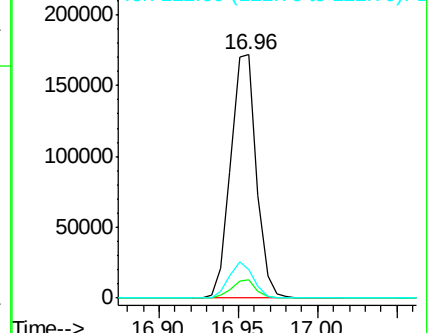
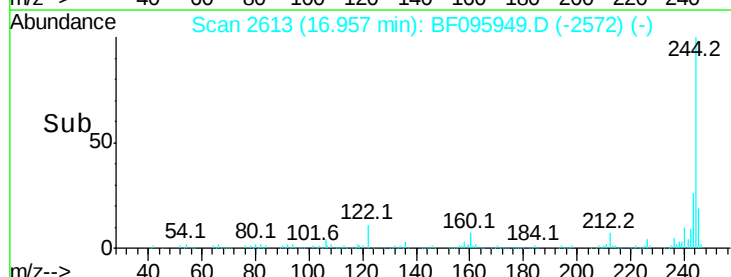
122 11.6 10.3 15.5

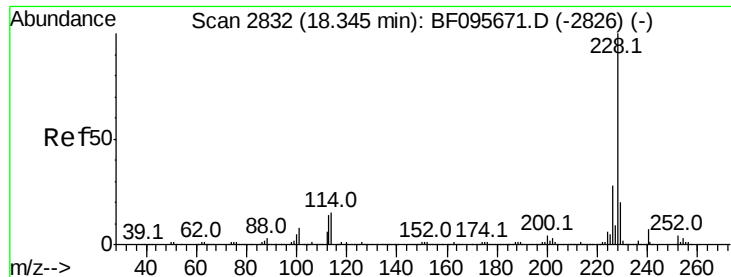


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 25.48 ng

RT: 18.29 min Scan# 2840

Delta R.T. -0.05 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampled :

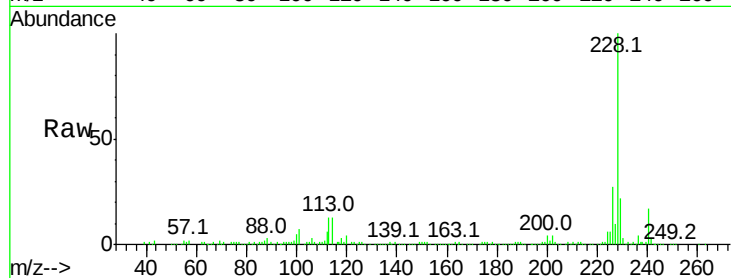
Tot Ion:228 Resp: 186321

Ion Ratio Lower Upper

228 100

226 26.7 22.6 33.8

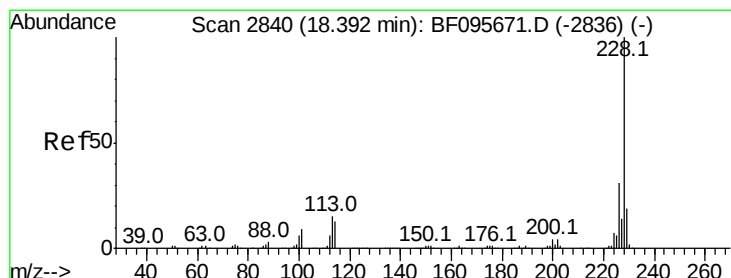
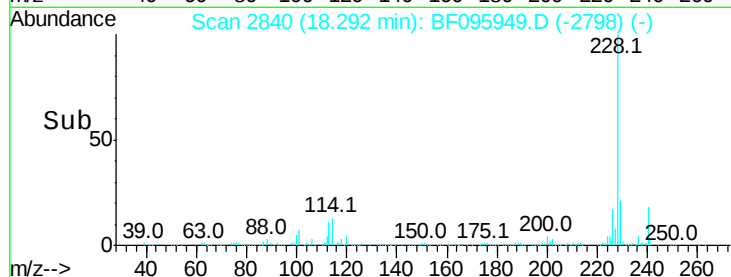
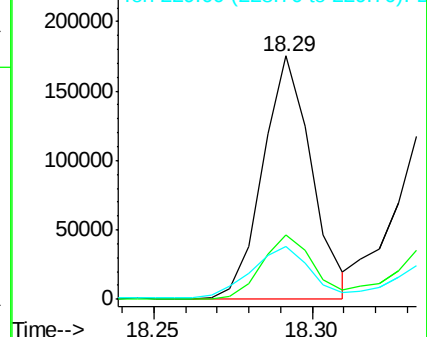
229 21.6 16.3 24.5



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: 22.98 ng

RT: 18.34 min Scan# 2848

Delta R.T. -0.05 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

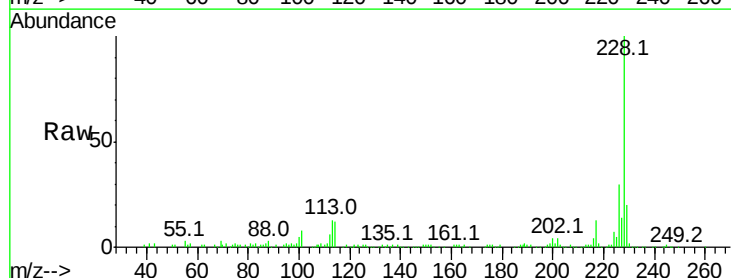
Tgt Ion:228 Resp: 167964

Ion Ratio Lower Upper

228 100

226 29.8 24.9 37.3

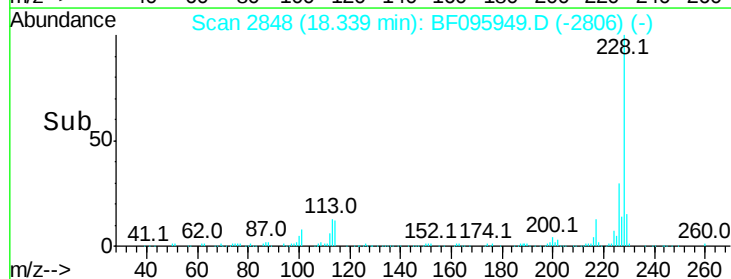
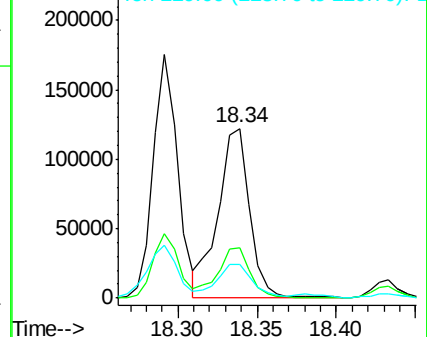
229 19.9 15.8 23.6

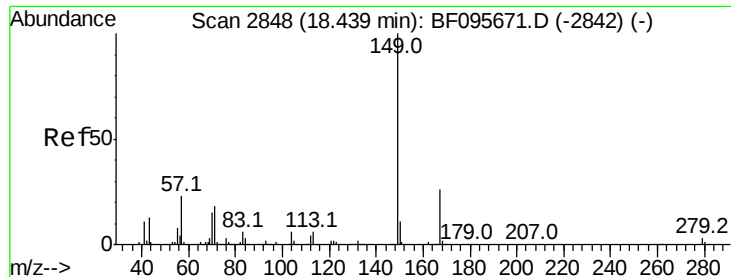


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Bis(2-ethylhexyl)phthalate

Concen: 22.78 ng

RT: 18.37 min Scan# 2853

Delta R.T. -0.07 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

Instrument :

BNA_F

ClientSampled :

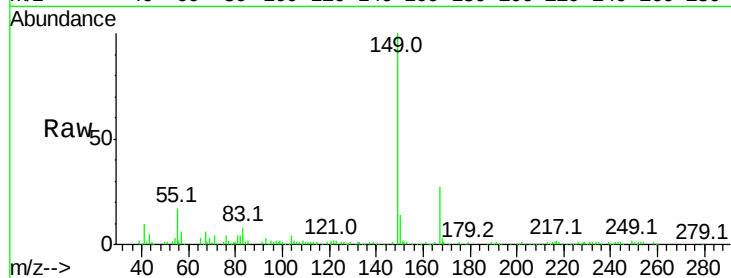
Tot Ion:149 Resp: 131713

Ion Ratio Lower Upper

149 100

167 27.0 21.0 31.4

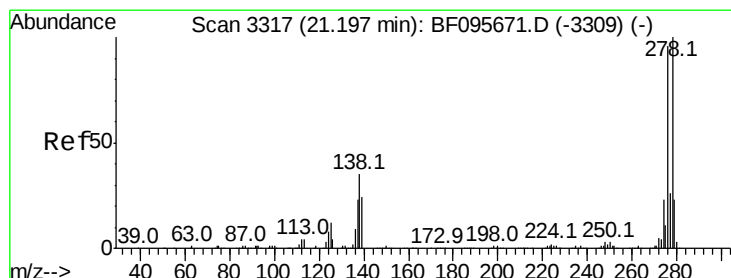
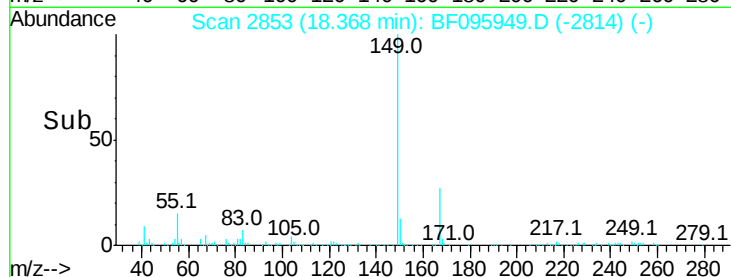
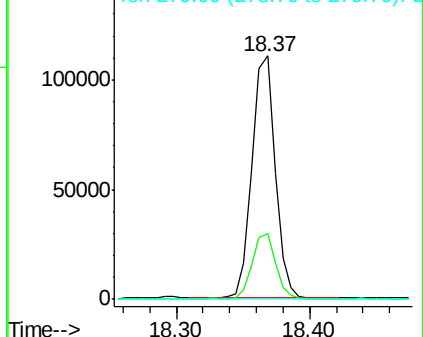
279 0.3 1.9 2.9#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 9.08 ng

RT: 21.15 min Scan# 3326

Delta R.T. -0.05 min

Lab File: BF095949.D

Acq: 15 Jun 2017 8:24

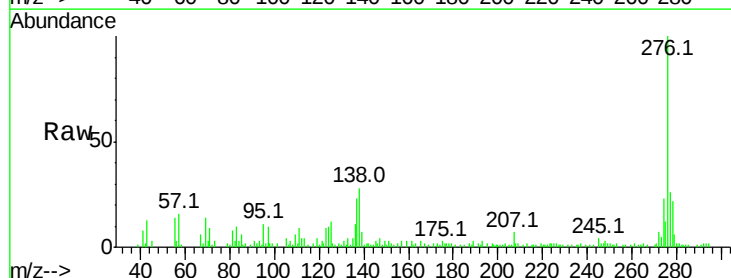
Tgt Ion:276 Resp: 56756

Ion Ratio Lower Upper

276 100

138 28.2 27.8 41.6

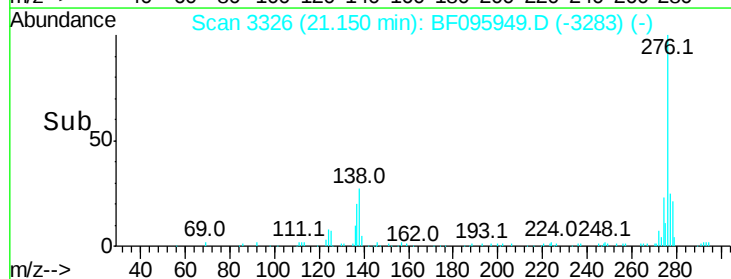
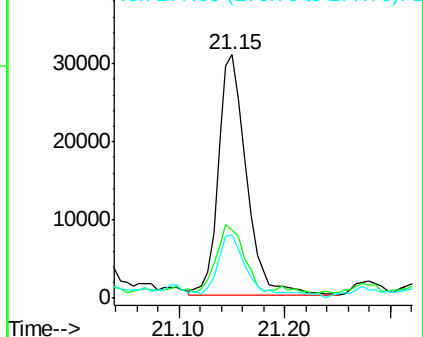
277 22.6 20.2 30.4

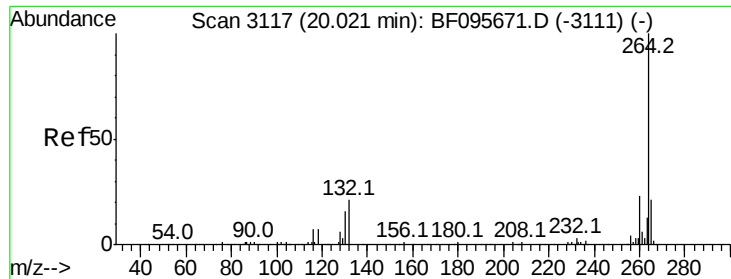


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

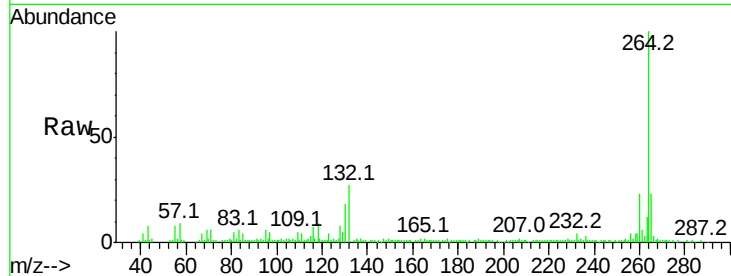




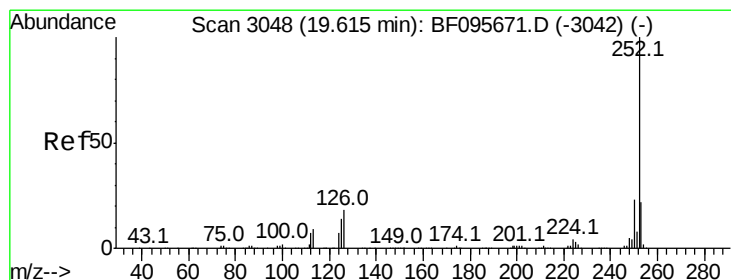
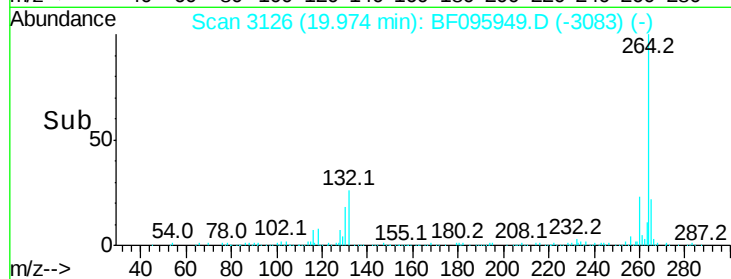
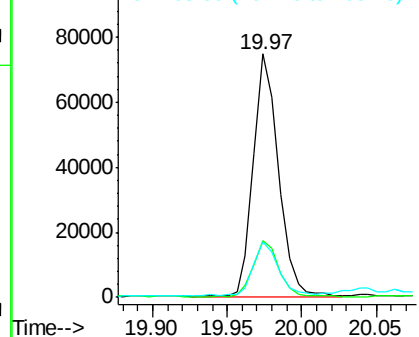
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.97 min Scan# 3126
Delta R.T. -0.05 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 88251
Ion Ratio Lower Upper
264 100
260 23.1 19.5 29.3
265 22.6 17.2 25.8

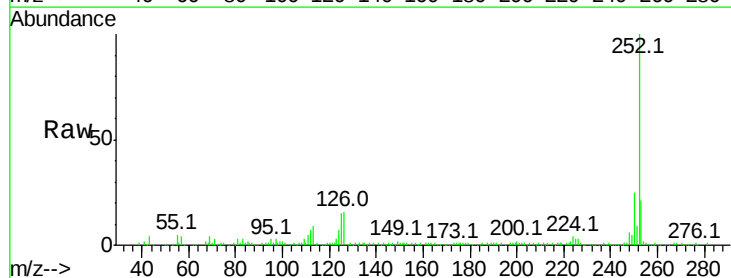


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

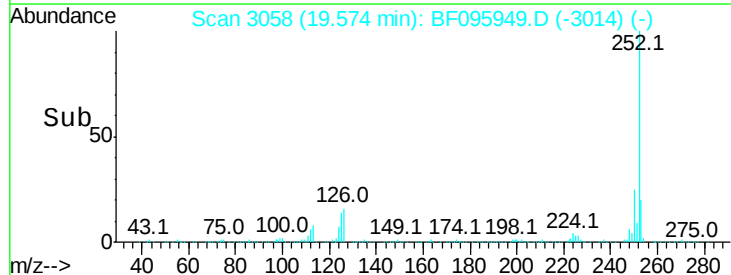
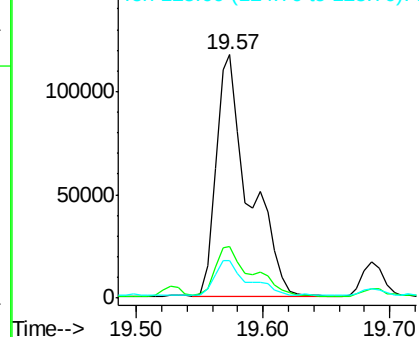


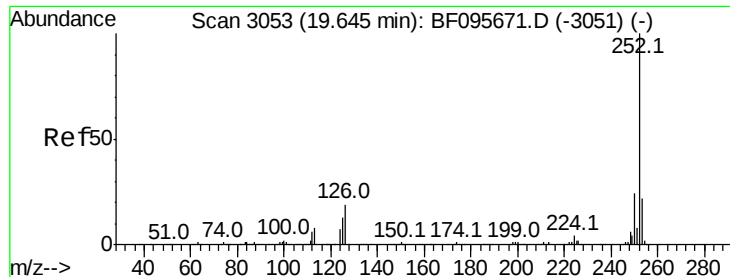
#87
Benzo(b)fluoranthene
Concen: 38.64 ng
RT: 19.57 min Scan# 3058
Delta R.T. -0.04 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Tgt Ion:252 Resp: 213522
Ion Ratio Lower Upper
252 100
253 21.5 18.1 27.1
125 15.3 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

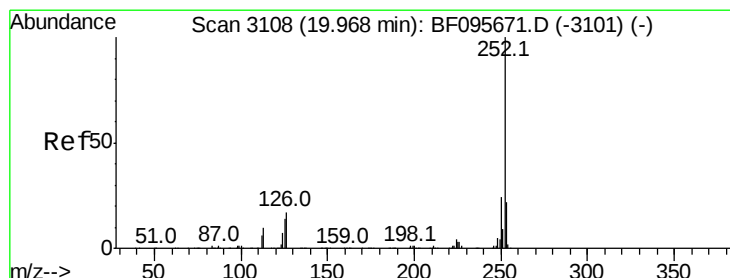
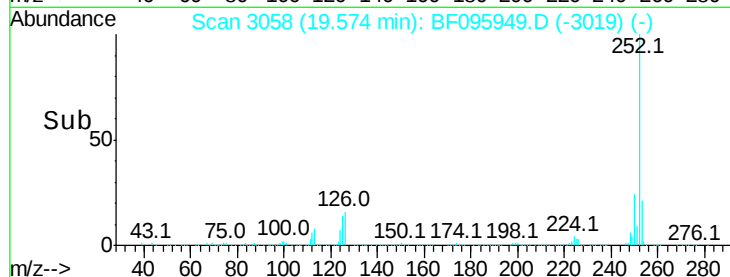
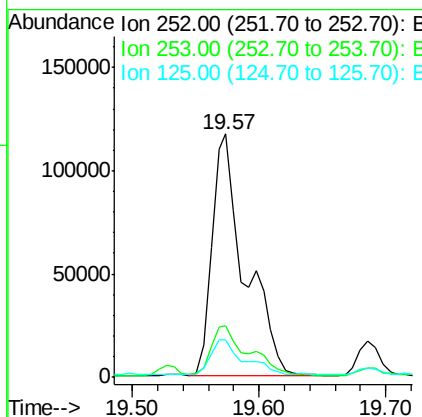
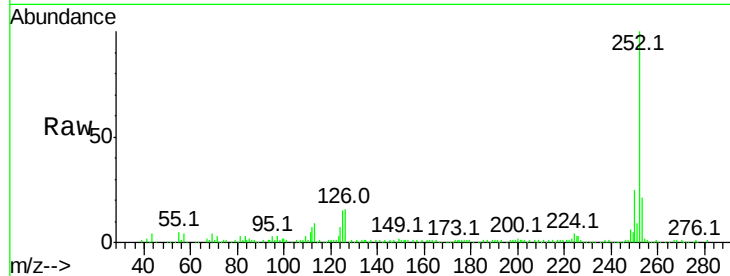




#88
Benzo(k)fluoranthene
Concen: 40.42 ng
RT: 19.57 min Scan# 3058
Delta R.T. -0.07 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

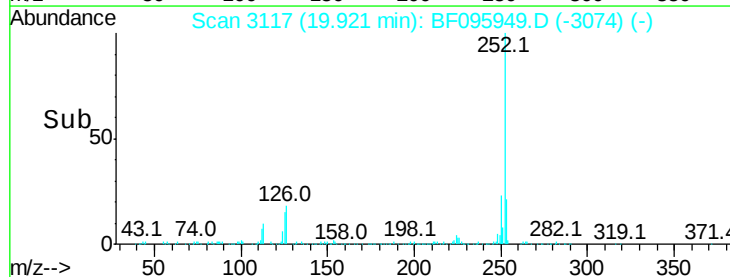
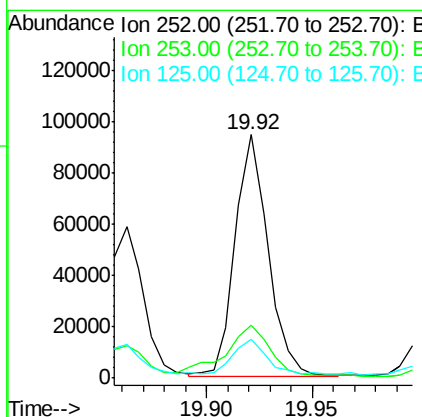
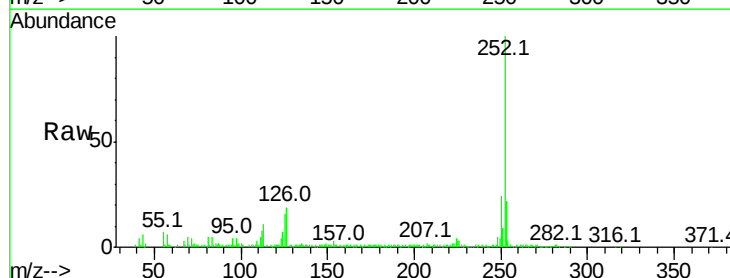
Instrument :
BNA_F
ClientSampleId :

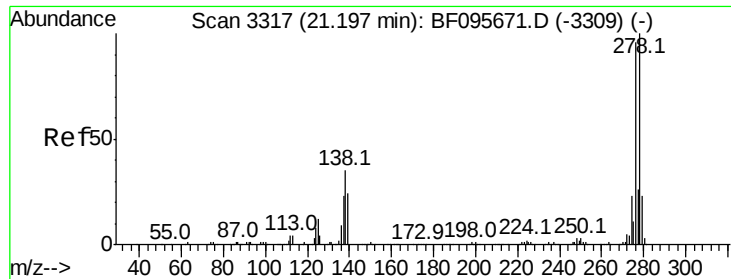
Tot Ion:252 Resp: 213522
Ion Ratio Lower Upper
252 100
253 21.5 18.4 27.6
125 15.3 13.1 19.7



#89
Benzo(a)pyrene
Concen: 20.24 ng
RT: 19.92 min Scan# 3117
Delta R.T. -0.05 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Tgt Ion:252 Resp: 102790
Ion Ratio Lower Upper
252 100
253 21.9 17.5 26.3
125 16.2 11.0 16.4

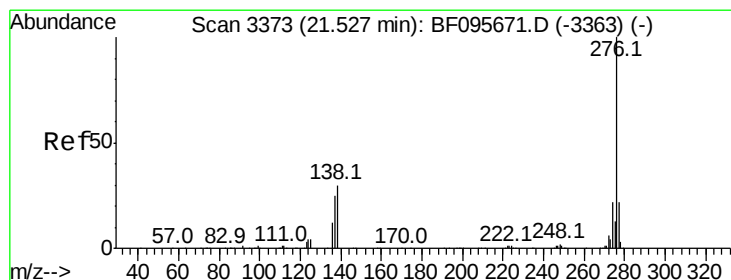
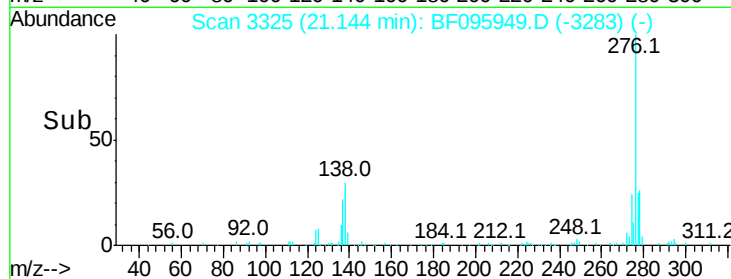
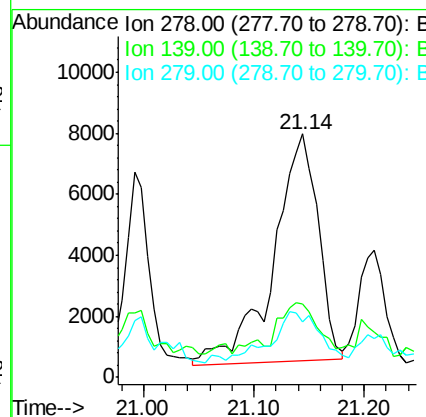
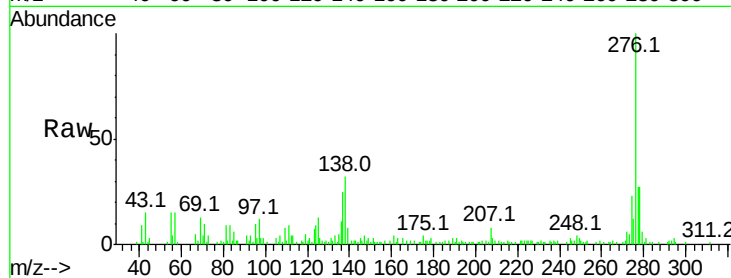




#90
Dibenzo(a,h)anthracene
Concen: 4.83 ng
RT: 21.14 min Scan# 3325
Delta R.T. -0.05 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Instrument :
BNA_F
ClientSampled :

Tot Ion:278 Resp: 20796
Ion Ratio Lower Upper
278 100
139 30.3 16.6 24.8#
279 22.6 19.3 28.9



#91
Benzo(g,h,i)perylene
Concen: 11.83 ng
RT: 21.48 min Scan# 3382
Delta R.T. -0.05 min
Lab File: BF095949.D
Acq: 15 Jun 2017 8:24

Tgt Ion:276 Resp: 51976
Ion Ratio Lower Upper
276 100
277 26.5 18.6 28.0
138 30.3 25.4 38.0

