

Data Path : Z:\HPCHEM1\BNA F\DATA\BF060217\
 Data File : BF095642.D
 Acq On : 2 Jun 2017 19:32
 Operator : SJ/MA
 Sample : I3405-04
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 03 01:32:52 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 01 18:51:16 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.53	152	91335	20.00	ng	0.00
21) Naphthalene-d8	9.57	136	371008	20.00	ng	0.00
38) Acenaphthene-d10	12.39	164	157881	20.00	ng	0.00
63) Phenanthrene-d10	14.79	188	253812	20.00	ng	-0.01
75) Chrysene-d12	18.49	240	186336	20.00	ng	0.00
86) Perylene-d12	20.17	264	146766	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	53776	9.82	ng	0.07
7) Phenol-d6	7.09	99	490288	74.59	ng	-0.01
23) Nitrobenzene-d5	8.45	82	411148	69.88	ng	-0.02
41) 2,4,6-Tribromophenol	13.73	330	1353	1.05	ng	0.04
44) 2-Fluorobiphenyl	11.35	172	786053	71.66	ng	0.00
78) Terphenyl-d14	17.14	244	534944	63.23	ng	0.00

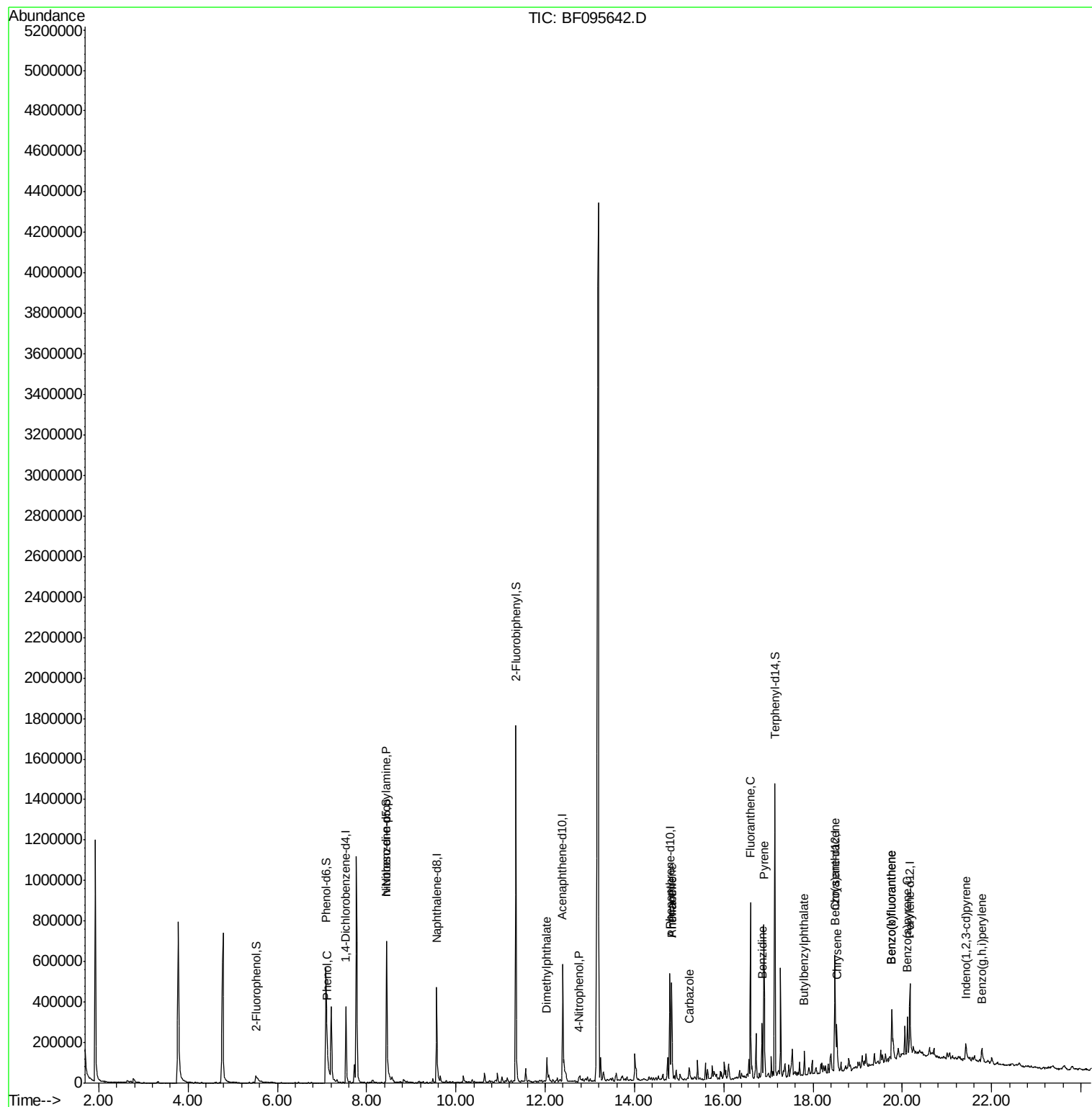
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.12	94	27646	3.99	ng	# 76
19) n-Nitroso-di-n-propylamine	8.45	70	50316	11.32	ng	# 73
49) Dimethylphthalate	12.04	163	78486	6.06	ng	# 98
55) 4-Nitrophenol	12.76	139	6068	3.56	ng	# 25
70) Phenanthrene	14.83	178	273661	18.77	ng	97
71) Anthracene	14.83	178	273661	18.37	ng	97
72) Carbazole	15.23	167	44423	3.28	ng	92
74) Fluoranthene	16.60	202	436593	29.19	ng	100
76) Benzidine	16.86	184	229	6.63	ng	# 1
77) Pyrene	16.90	202	337795	24.24	ng	97
79) Butylbenzylphthalate	17.80	149	35446	5.47	ng	92
80) Benzo(a)anthracene	18.48	228	98892	9.12	ng	96
82) Chrysene	18.53	228	126707	12.08	ng	98
85) Indeno(1,2,3-cd)pyrene	21.42	276	50680	5.95	ng	96
87) Benzo(b)fluoranthene	19.76	252	139608	15.39	ng	# 97
88) Benzo(k)fluoranthene	19.76	252	139608	15.96	ng	98
89) Benzo(a)pyrene	20.12	252	82230	9.83	ng	95
91) Benzo(a,h,i)perylene	21.79	276	47949	7.07	ng	96

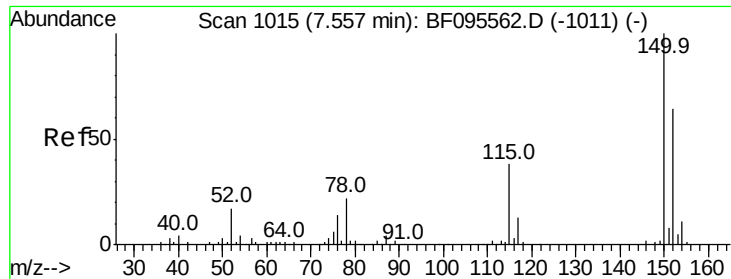
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.53 min Scan# 994

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampleId :

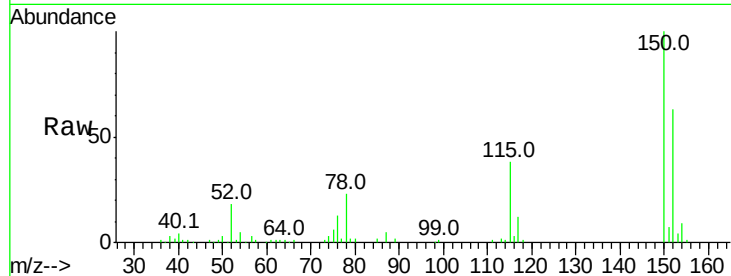
Tot Ion:152 Resp: 91335

Ion Ratio Lower Upper

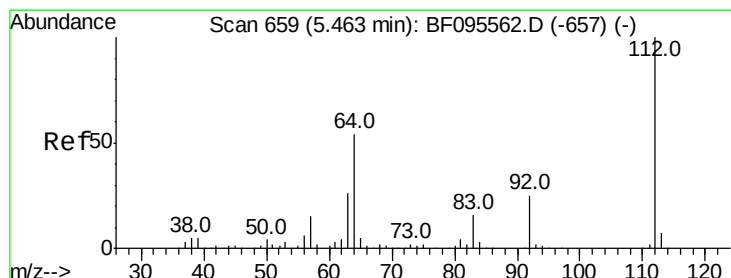
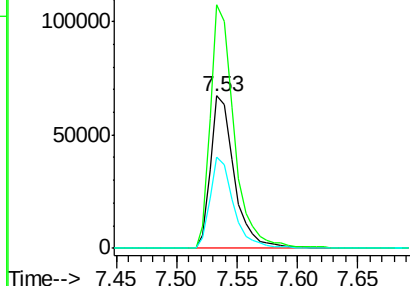
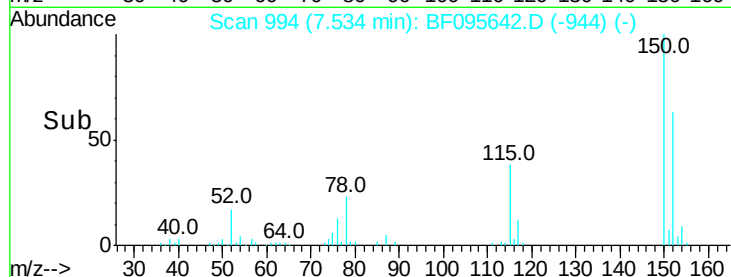
152 100

150 159.7 126.2 189.2

115 60.1 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: 9.82 ng

RT: 5.52 min Scan# 651

Delta R.T. 0.07 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

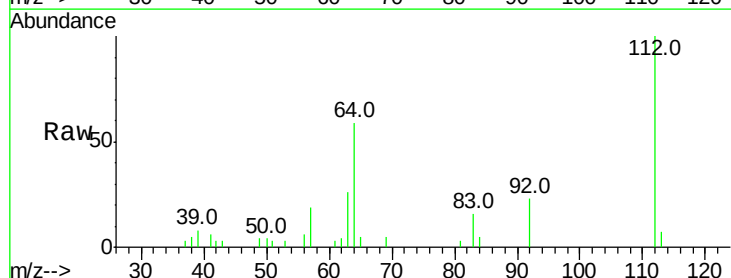
Tgt Ion:112 Resp: 53776

Ion Ratio Lower Upper

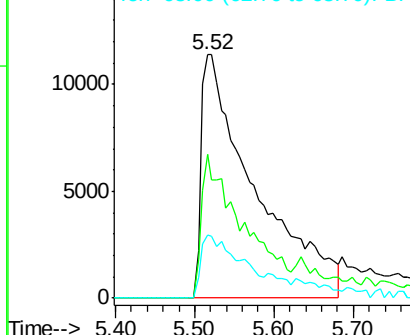
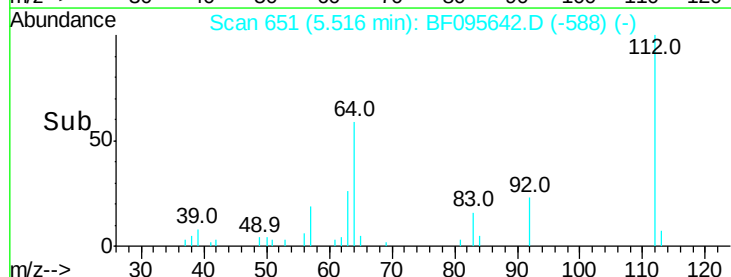
112 100

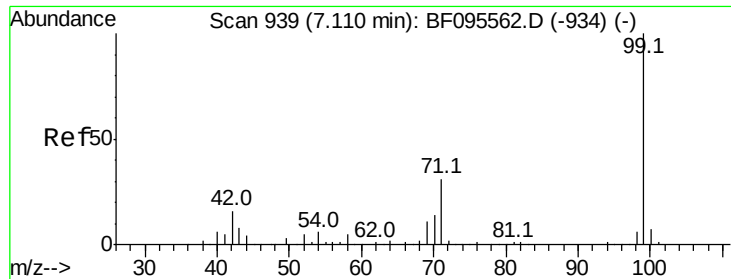
64 58.8 46.0 69.0

63 26.0 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: 74.59 ng

RT: 7.09 min Scan# 918

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampled :

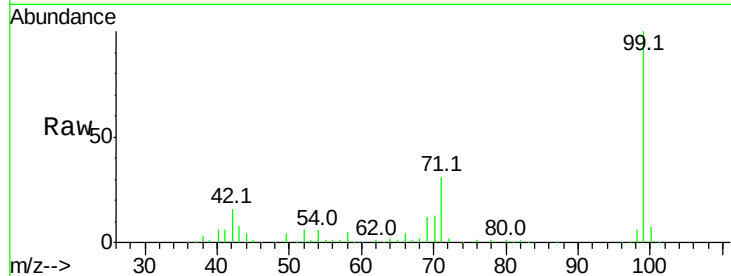
Tot Ion: 99 Resp: 490288

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

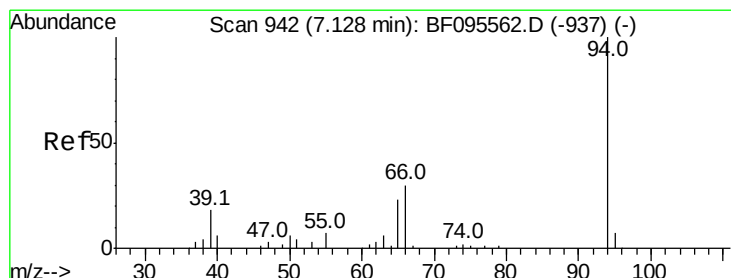
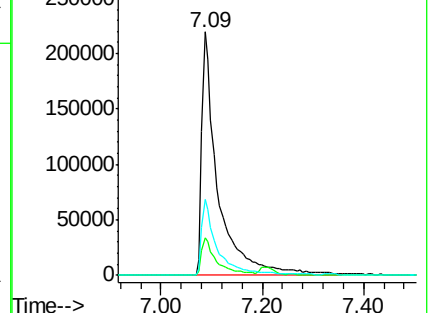
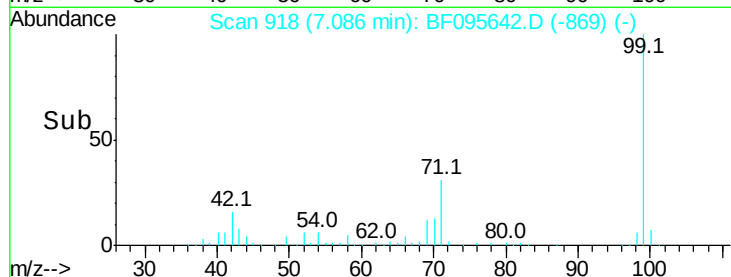
71 31.3 24.5 36.7



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



#10

Phenol

Concen: 3.99 ng

RT: 7.12 min Scan# 924

Delta R.T. 0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

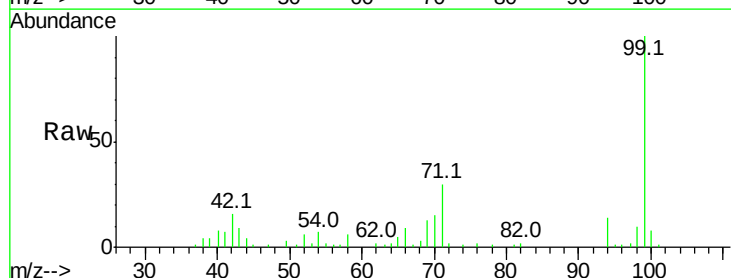
Tgt Ion: 94 Resp: 27646

Ion Ratio Lower Upper

94 100

65 33.6 9.9 49.9

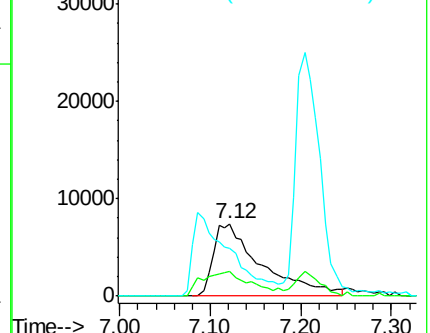
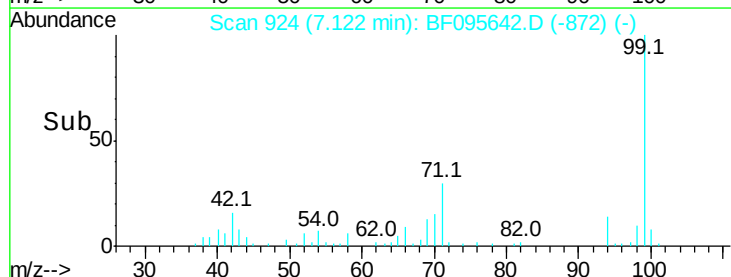
66 65.9 23.1 63.1#

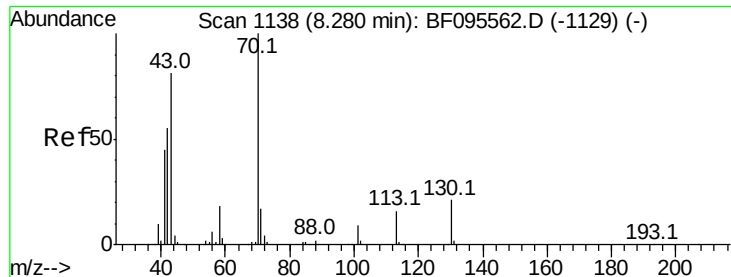


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

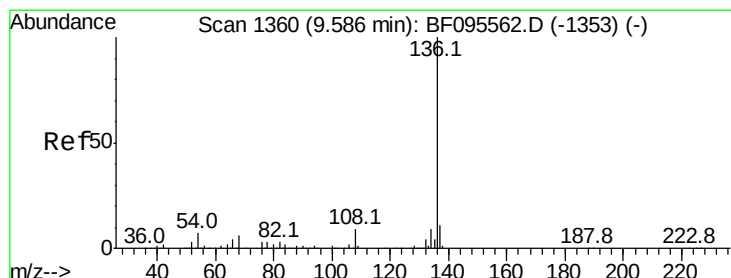
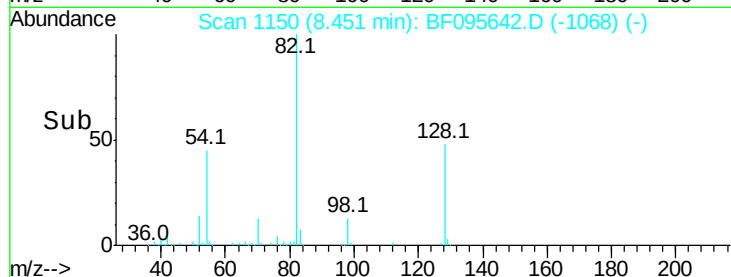
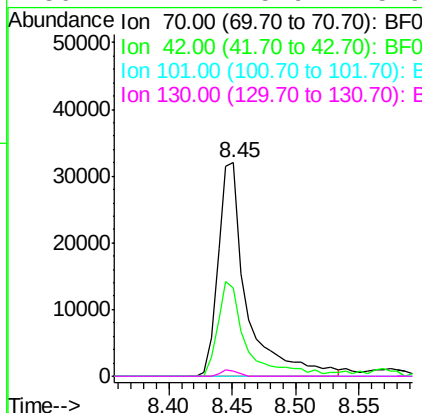
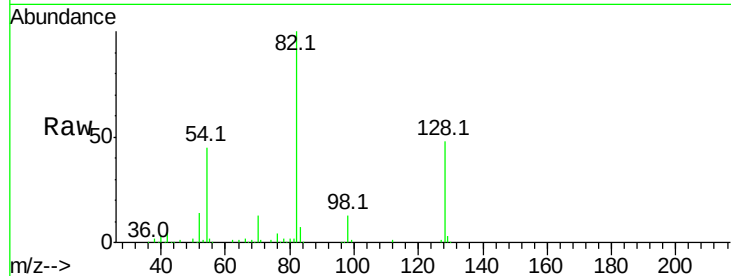




#19
n-Nitroso-di-n-propylamine
Concen: 11.32 ng
RT: 8.45 min Scan# 1150
Delta R.T. 0.18 min
Lab File: BF095642.D
Acq: 2 Jun 2017 19:32

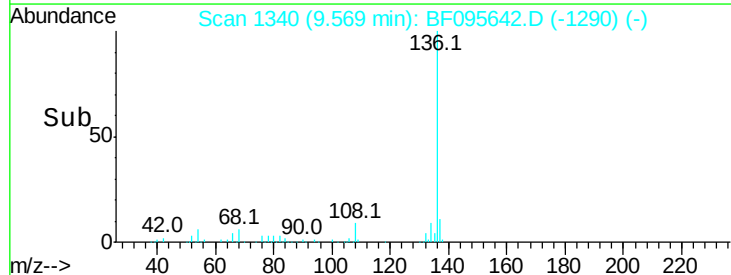
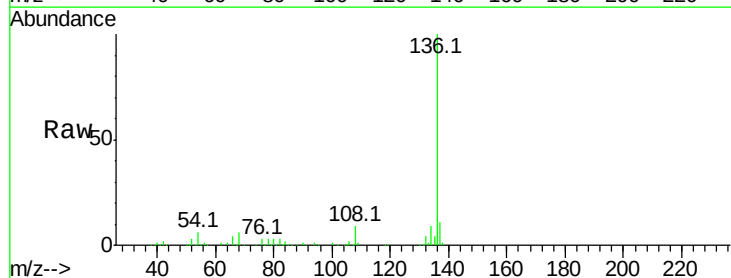
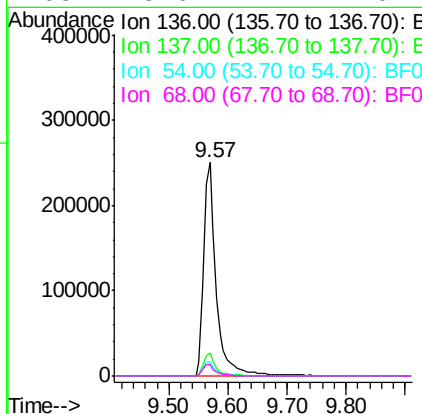
Instrument :
BNA_F
ClientSampleId :

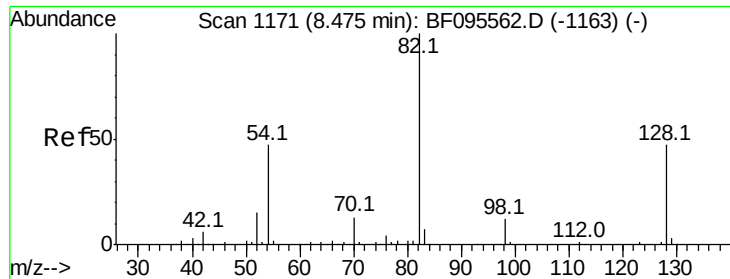
Tot Ion: 70 Resp: 50316
Ion Ratio Lower Upper
70 100
42 41.5 47.2 70.8#
101 0.0 7.2 10.8#
130 2.4 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.57 min Scan# 1340
Delta R.T. -0.01 min
Lab File: BF095642.D
Acq: 2 Jun 2017 19:32

Tgt Ion: 136 Resp: 371008
Ion Ratio Lower Upper
136 100
137 10.8 8.5 12.7
54 6.3 4.9 7.3
68 5.6 4.1 6.1

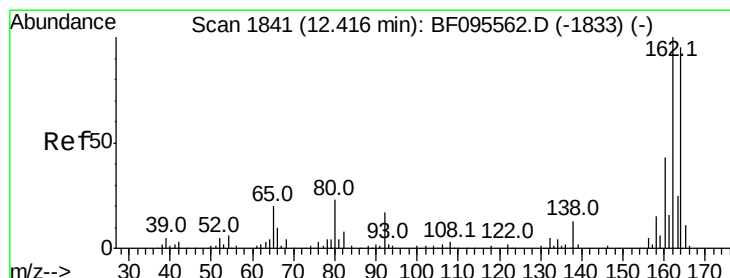
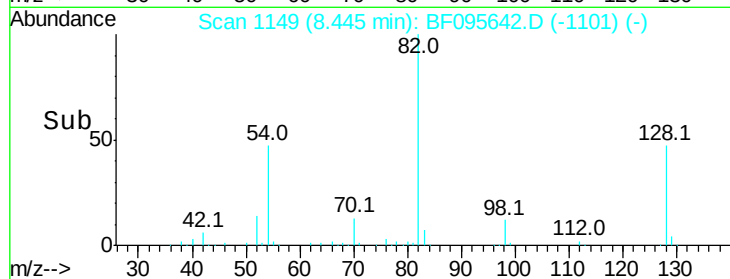
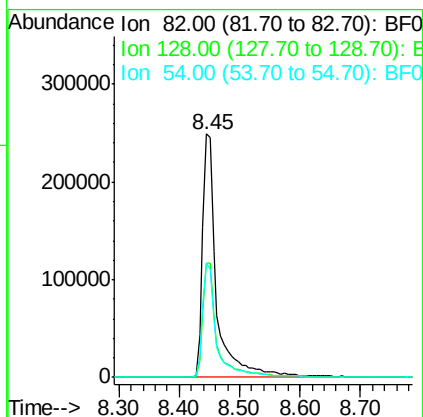
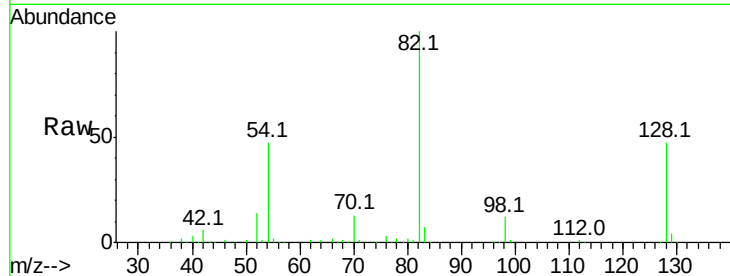




#23
 Nitrobenzene-d5
 Concen: 69.88 ng
 RT: 8.45 min Scan# 1149
 Delta R.T. -0.02 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

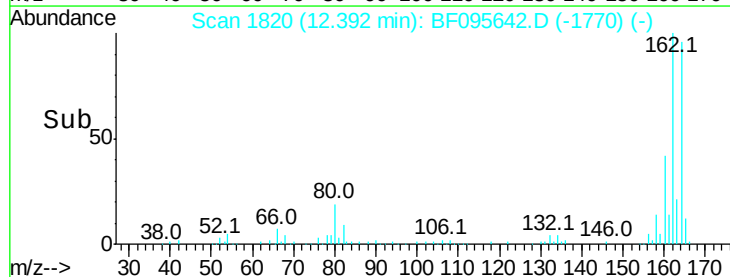
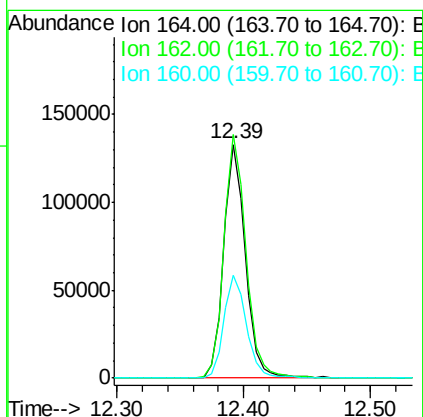
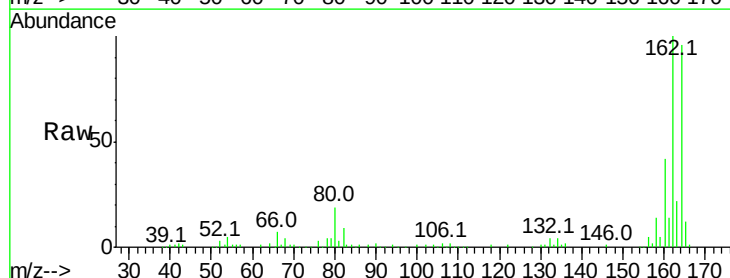
Instrument :
 BNA_F
 ClientSampleId :

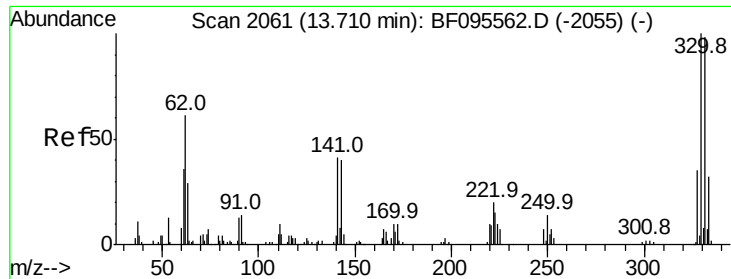
Tot Ion: 82 Resp: 411148
 Ion Ratio Lower Upper
 82 100
 128 46.7 34.0 51.0
 54 47.2 42.2 63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.39 min Scan# 1820
 Delta R.T. -0.01 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

Tgt Ion:164 Resp: 157881
 Ion Ratio Lower Upper
 164 100
 162 104.2 82.6 123.8
 160 43.9 36.2 54.2





#41

2,4,6-Tribromophenol

Concen: 1.05 ng

RT: 13.73 min Scan# 2048

Delta R.T. 0.04 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampleId :

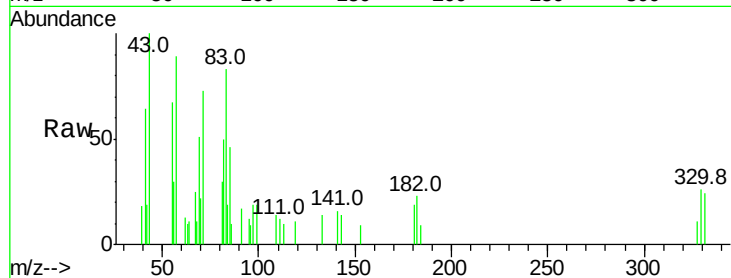
Tot Ion:330 Resp: 1353

Ion Ratio Lower Upper

330 100

332 116.0 76.6 115.0#

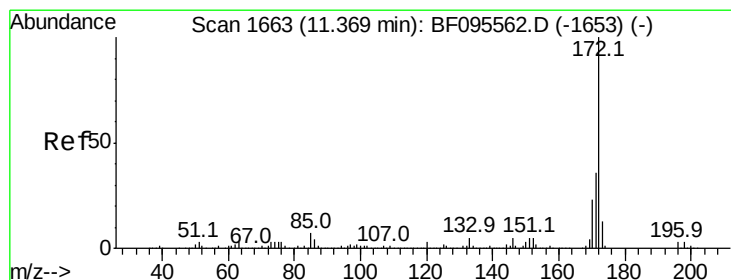
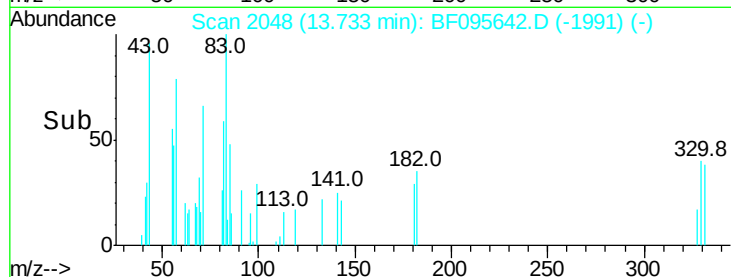
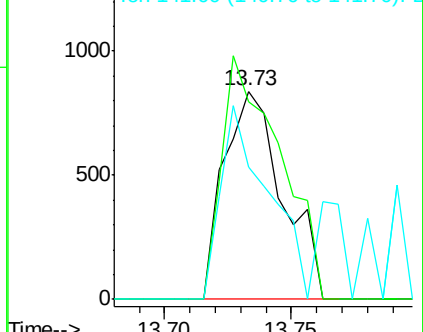
141 75.2 31.4 47.2#



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: 71.66 ng

RT: 11.35 min Scan# 1642

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

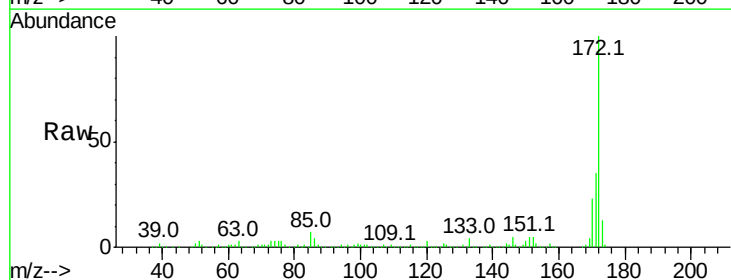
Tgt Ion:172 Resp: 786053

Ion Ratio Lower Upper

172 100

171 35.3 29.6 44.4

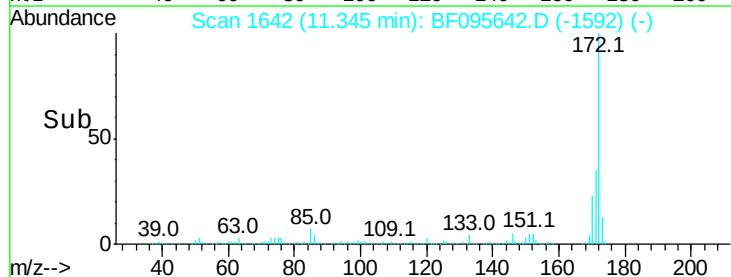
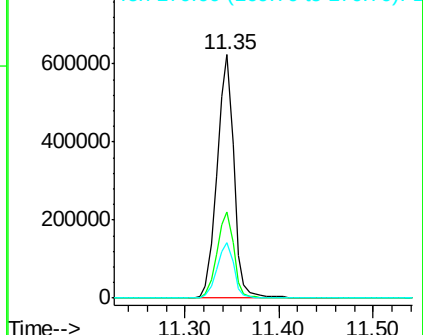
170 22.8 19.8 29.8

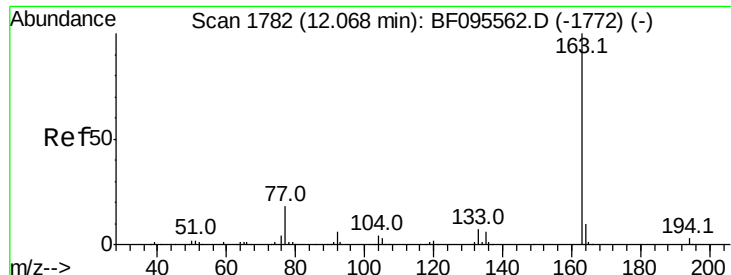


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 6.06 ng

RT: 12.04 min Scan# 1760

Delta R.T. -0.02 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampleId :

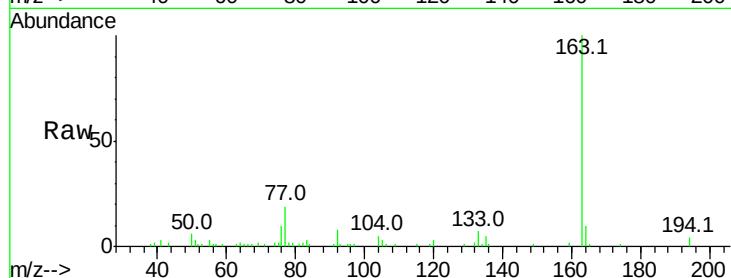
Tot Ion:163 Resp: 78486

Ion Ratio Lower Upper

163 100

194 4.0 2.6 4.0#

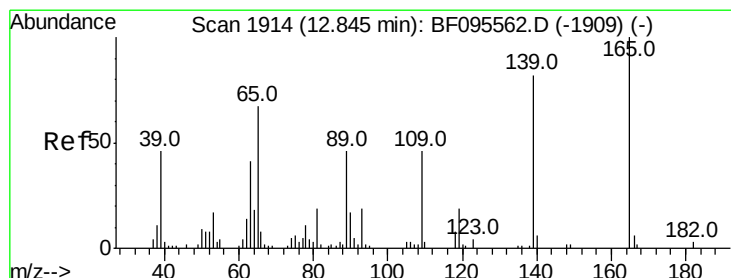
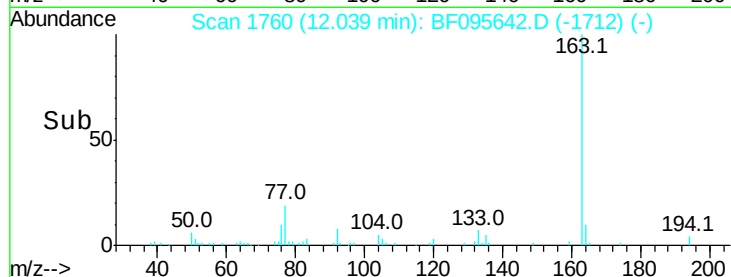
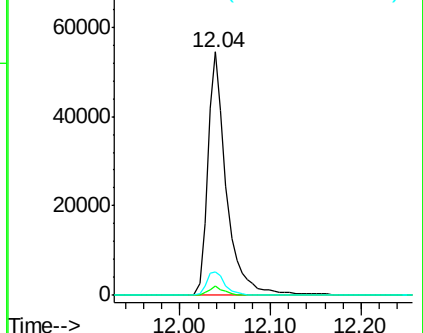
164 9.9 8.4 12.6



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#55

4-Nitrophenol

Concen: 3.56 ng

RT: 12.76 min Scan# 1882

Delta R.T. -0.08 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

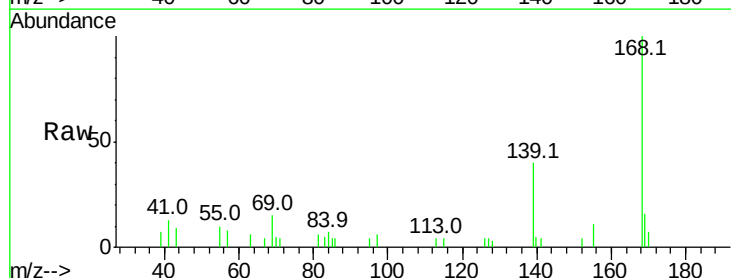
Tgt Ion:139 Resp: 6068

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

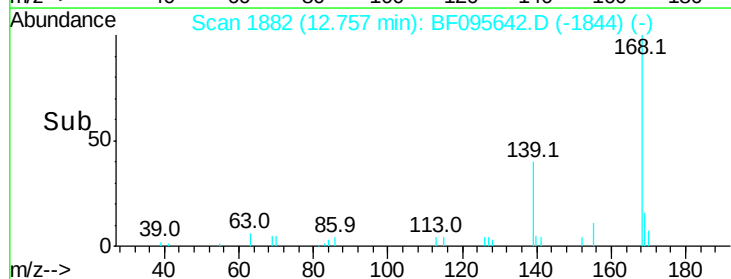
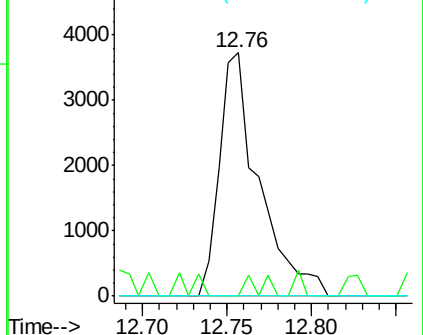
65 0.0 31.4 71.4#

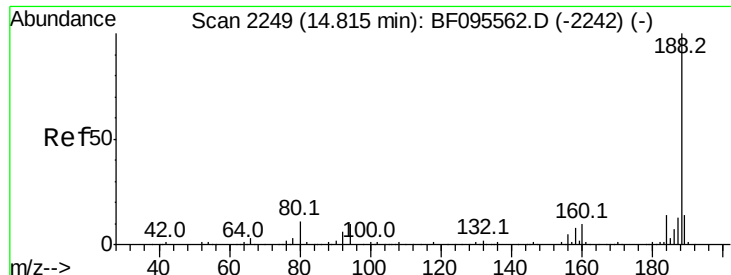


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

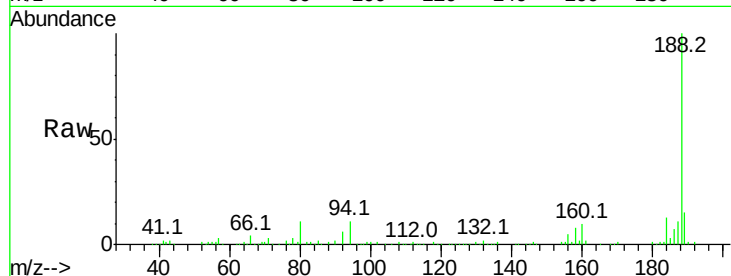




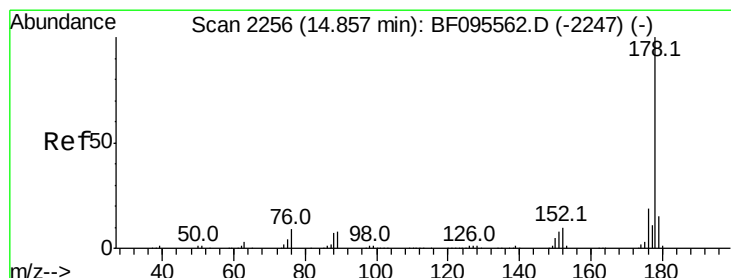
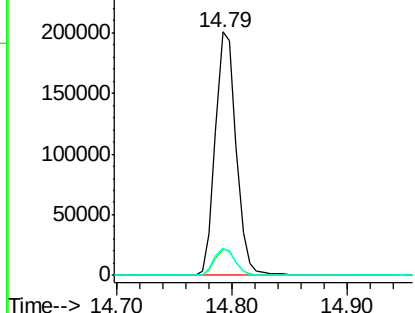
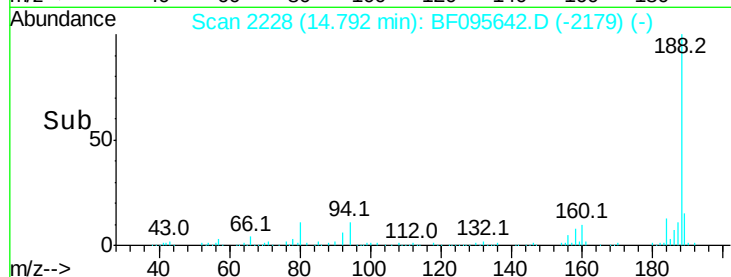
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.79 min Scan# 2228
 Delta R.T. -0.01 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:188 Resp: 253812
 Ion Ratio Lower Upper
 188 100
 94 10.9 9.4 14.2
 80 11.2 10.2 15.2

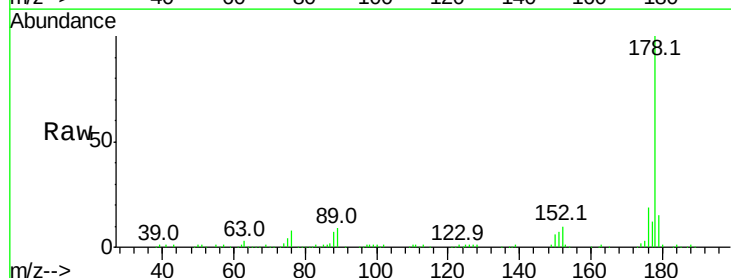


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

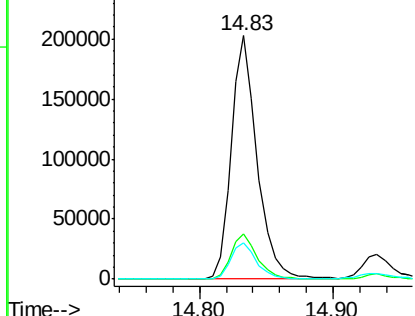
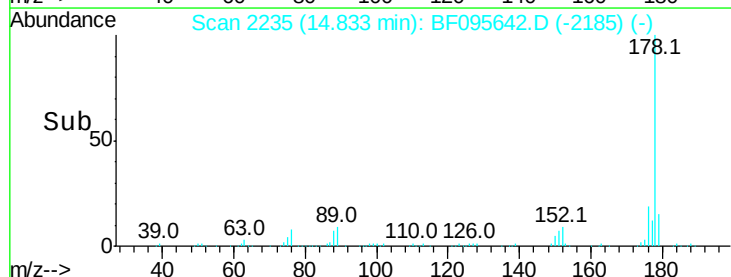


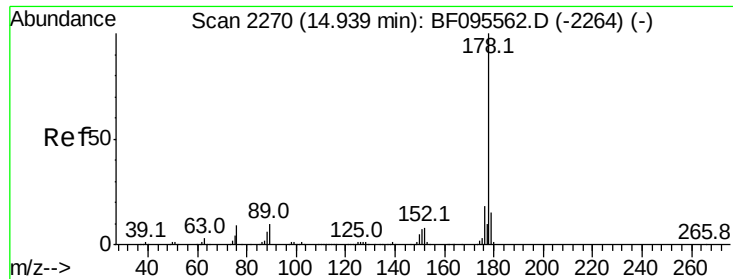
#70
 Phenanthrene
 Concen: 18.77 ng
 RT: 14.83 min Scan# 2235
 Delta R.T. -0.01 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

Tgt Ion:178 Resp: 273661
 Ion Ratio Lower Upper
 178 100
 176 18.6 16.2 24.4
 179 14.8 12.6 19.0



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

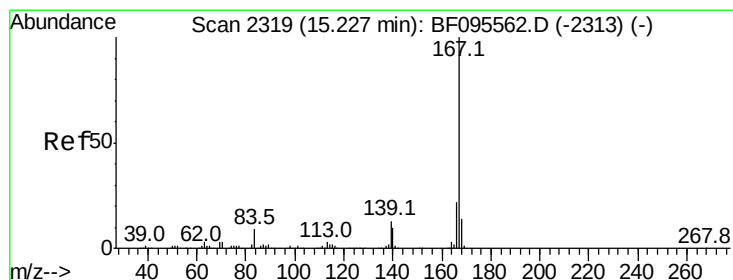
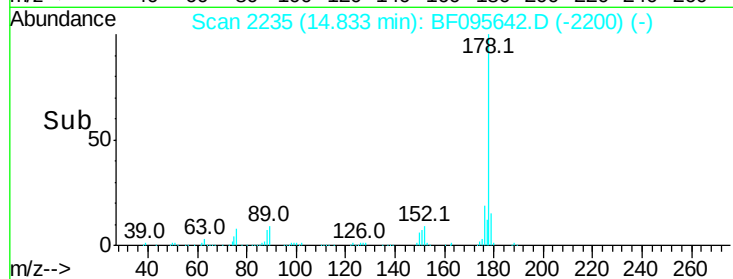
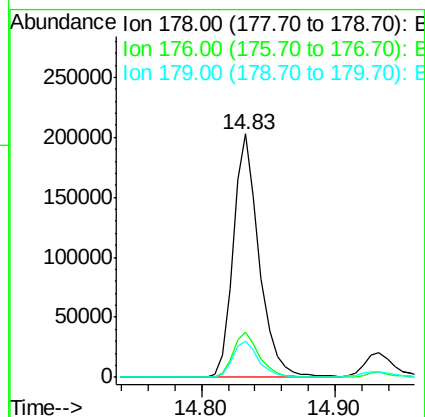
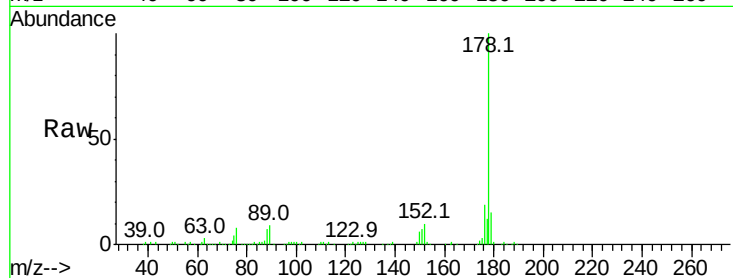




#71
 Anthracene
 Concen: 18.37 ng
 RT: 14.83 min Scan# 2235
 Delta R.T. -0.09 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

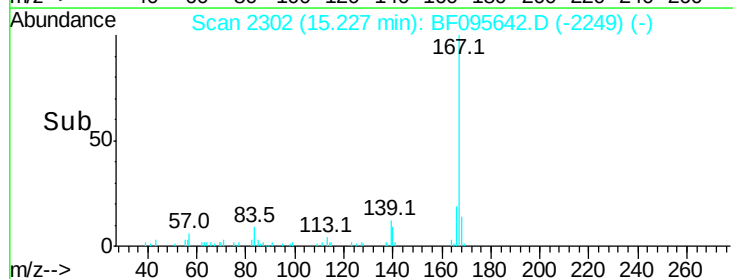
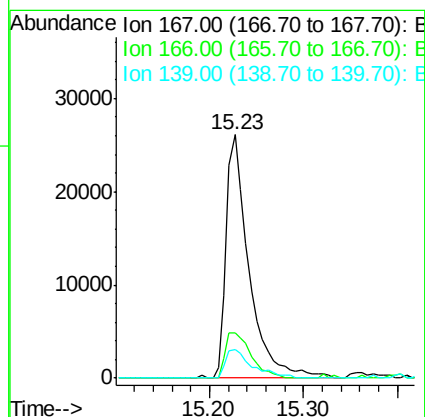
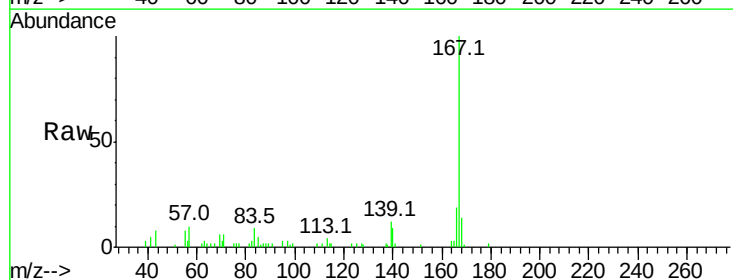
Instrument :
 BNA_F
 ClientSampled :

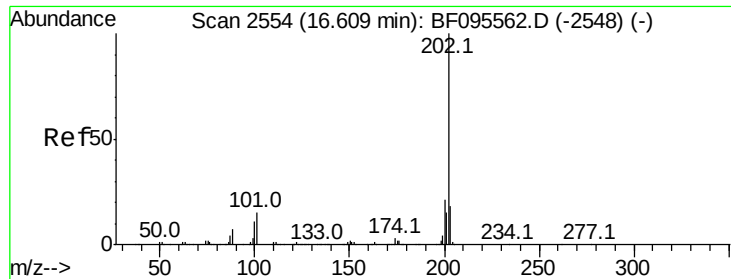
Tot Ion:178 Resp: 273661
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.8 23.8
 179 14.8 12.7 19.1



#72
 Carbazole
 Concen: 3.28 ng
 RT: 15.23 min Scan# 2302
 Delta R.T. 0.01 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

Tgt Ion:167 Resp: 44423
 Ion Ratio Lower Upper
 167 100
 166 18.6 18.1 27.1
 139 11.8 11.7 17.5





#74

Fluoranthene

Concen: 29.19 ng

RT: 16.60 min Scan# 2535

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampleId :

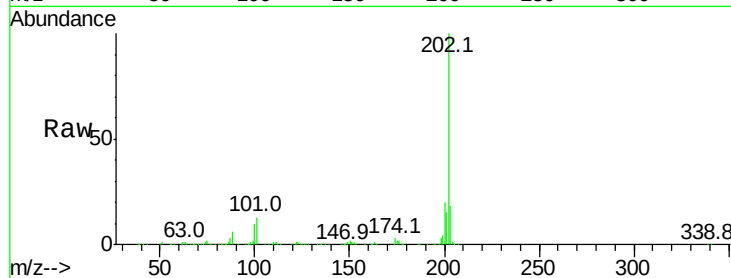
Tot Ion:202 Resp: 436593

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

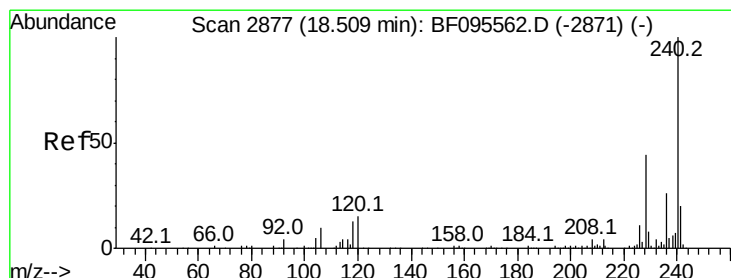
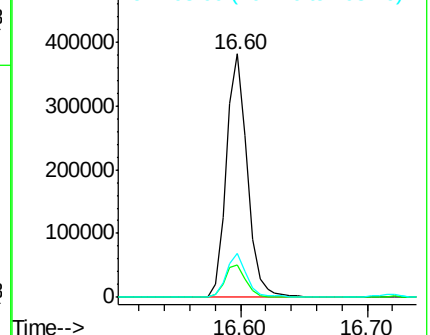
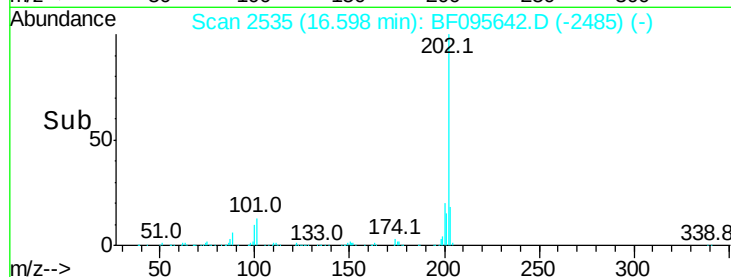
203 17.8 0.0 38.1



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: 18.49 min Scan# 2857

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

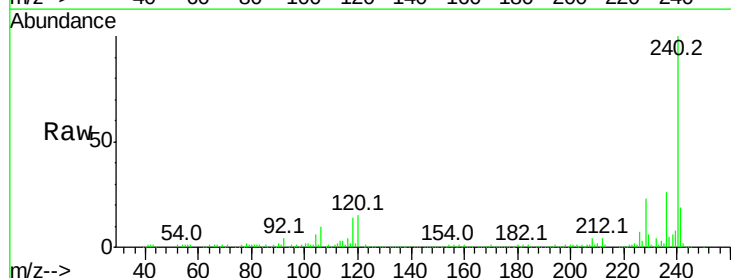
Tgt Ion:240 Resp: 186336

Ion Ratio Lower Upper

240 100

120 15.3 5.8 8.8#

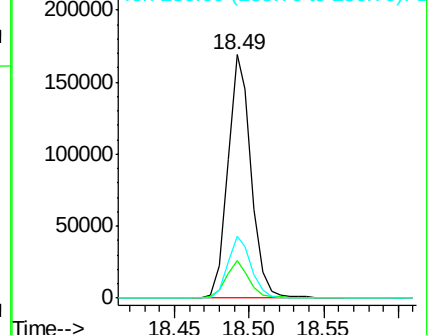
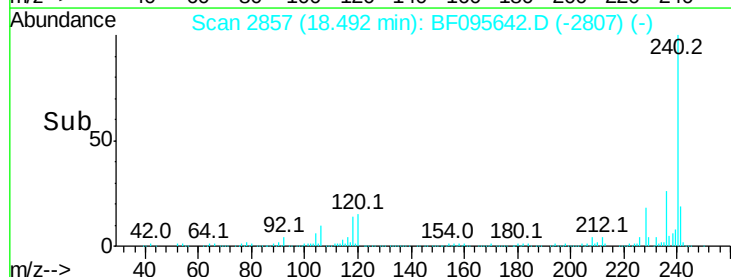
236 25.5 20.5 30.7

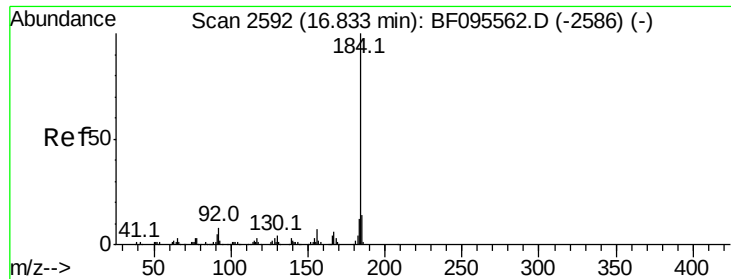


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 6.63 ng

RT: 16.86 min Scan# 2580

Delta R.T. 0.04 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampled :

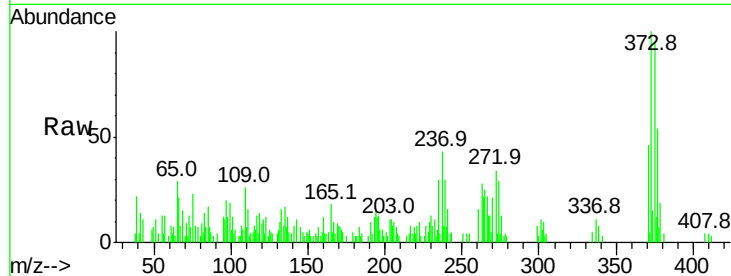
Tot Ion:184 Resp: 229

Ion Ratio Lower Upper

184 100

185 133.5 15.5 23.3#

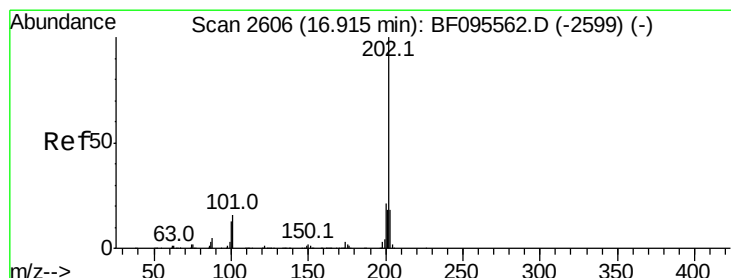
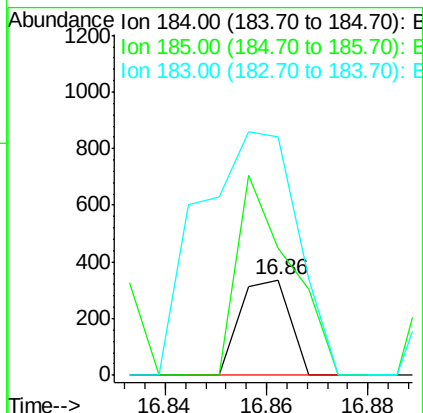
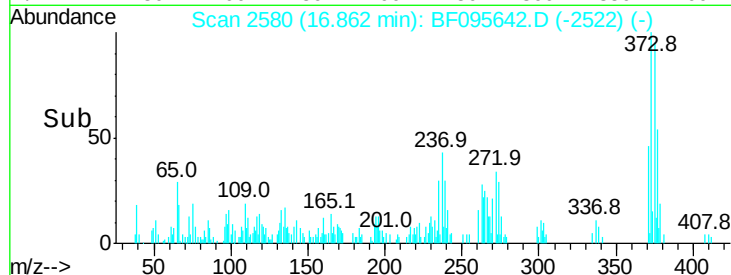
183 249.3 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 24.24 ng

RT: 16.90 min Scan# 2587

Delta R.T. -0.00 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

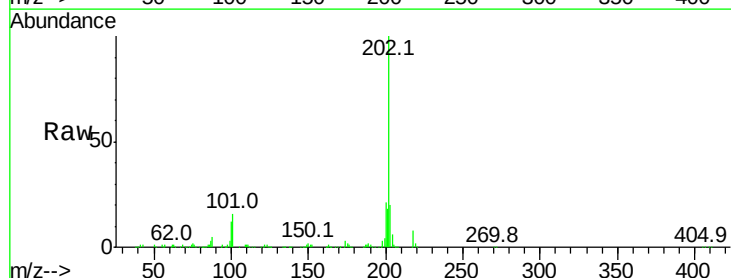
Tgt Ion:202 Resp: 337795

Ion Ratio Lower Upper

202 100

200 20.8 17.6 26.4

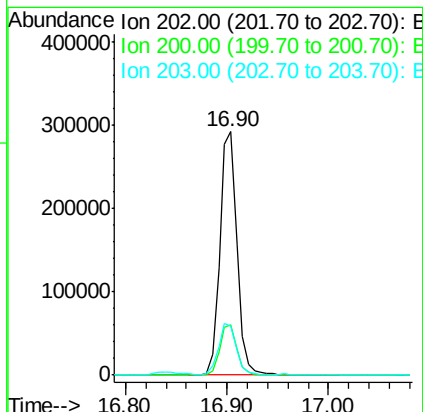
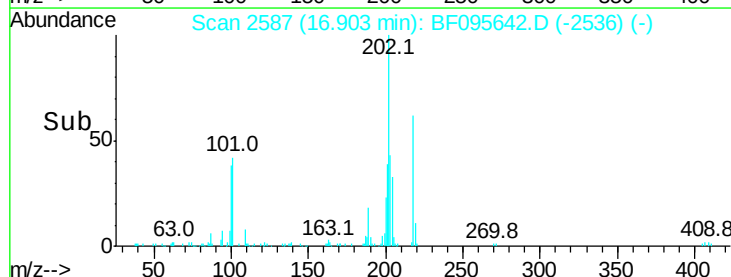
203 20.0 14.4 21.6

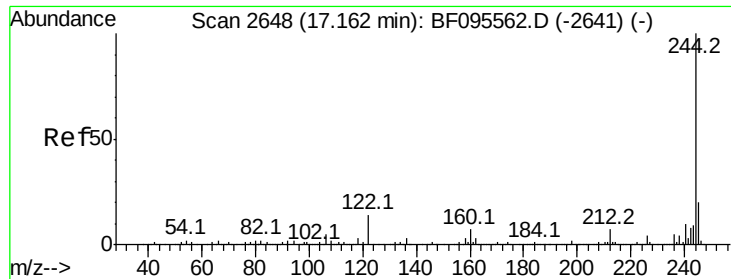


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

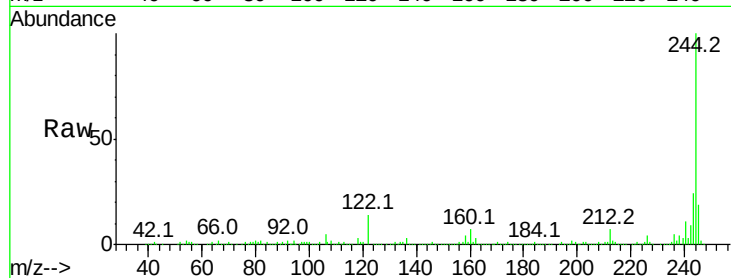




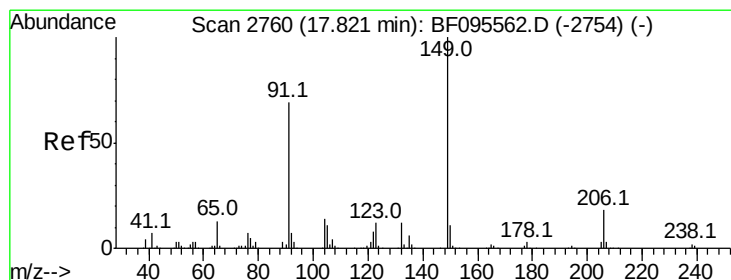
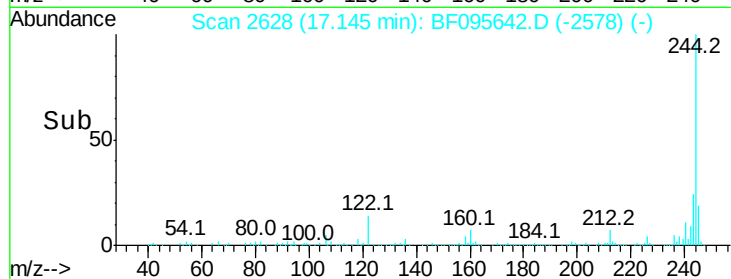
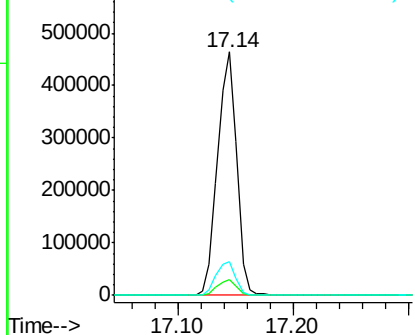
#78
 Terphenyl-d14
 Concen: 63.23 ng
 RT: 17.14 min Scan# 2628
 Delta R.T. -0.01 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:244 Resp: 534944
 Ion Ratio Lower Upper
 244 100
 212 6.5 6.0 9.0
 122 13.8 10.3 15.5

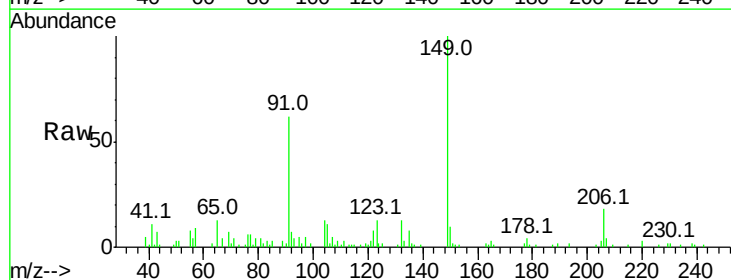


Abundance Ion 244.00 (243.70 to 244.70): E
 Ion 212.00 (211.70 to 212.70): E
 Ion 122.00 (121.70 to 122.70): E

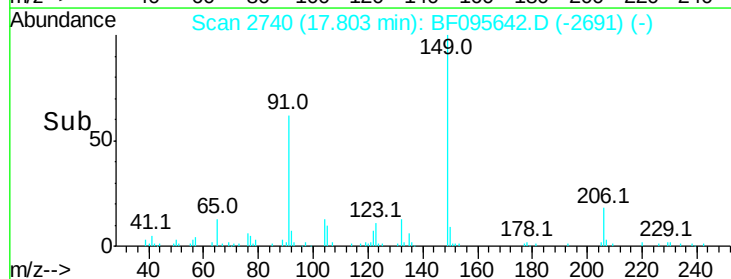
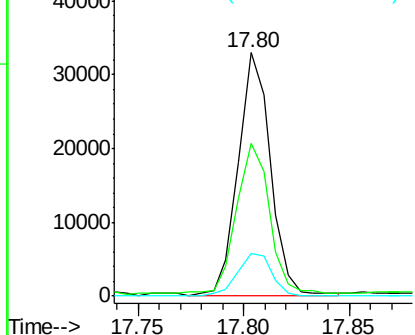


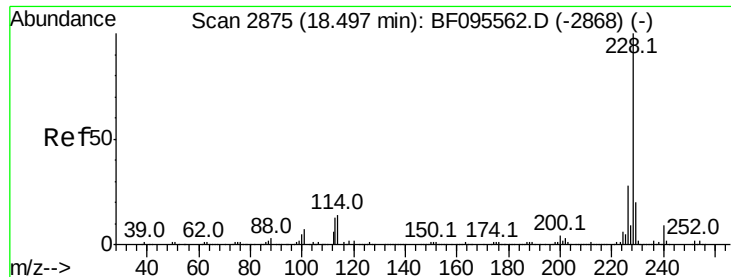
#79
 Butylbenzylphthalate
 Concen: 5.47 ng
 RT: 17.80 min Scan# 2740
 Delta R.T. -0.01 min
 Lab File: BF095642.D
 Acq: 2 Jun 2017 19:32

Tgt Ion:149 Resp: 35446
 Ion Ratio Lower Upper
 149 100
 91 62.5 45.0 67.4
 206 17.6 17.0 25.6



Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 91.00 (90.70 to 91.70): BF0
 Ion 206.00 (205.70 to 206.70): E





#80

Benzo(a)anthracene

Concen: 9.12 ng

RT: 18.48 min Scan# 2855

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampleId :

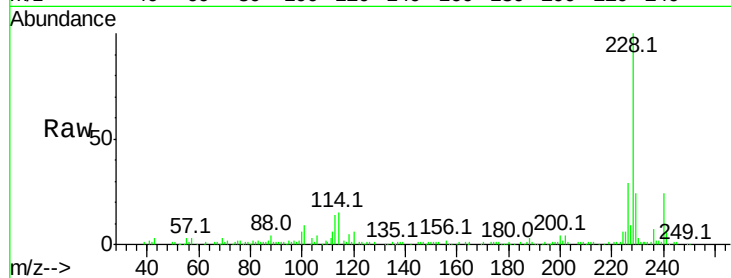
Tot Ion:228 Resp: 98892

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

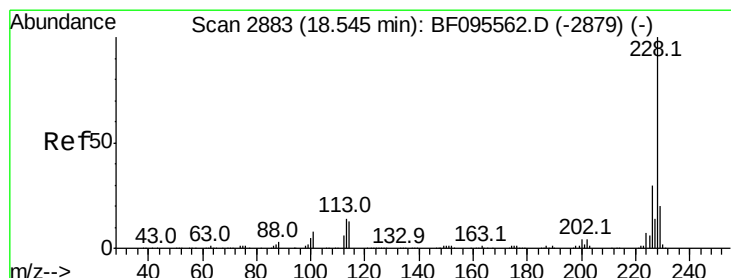
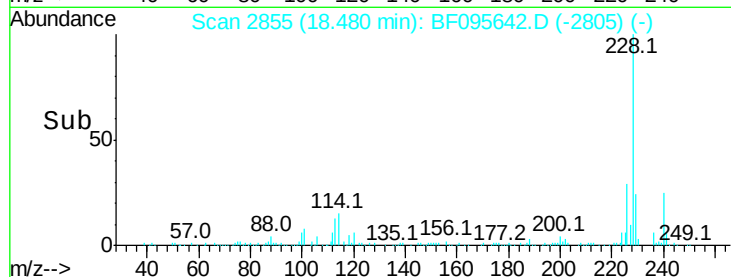
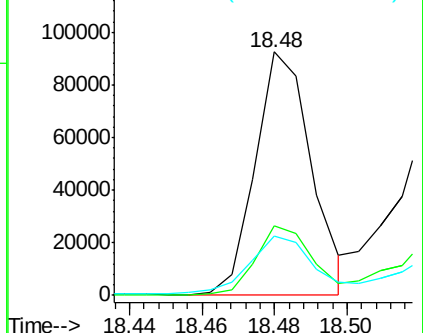
229 24.2 16.3 24.5



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: 12.08 ng

RT: 18.53 min Scan# 2863

Delta R.T. -0.01 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

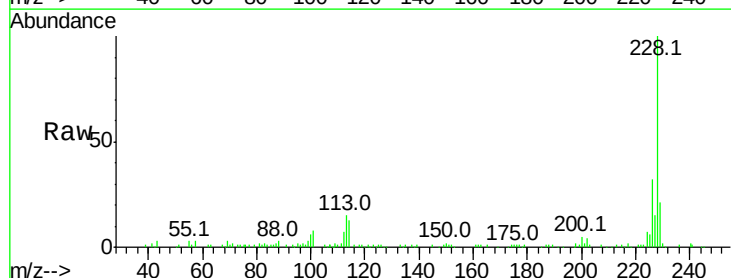
Tgt Ion:228 Resp: 126707

Ion Ratio Lower Upper

228 100

226 31.7 24.9 37.3

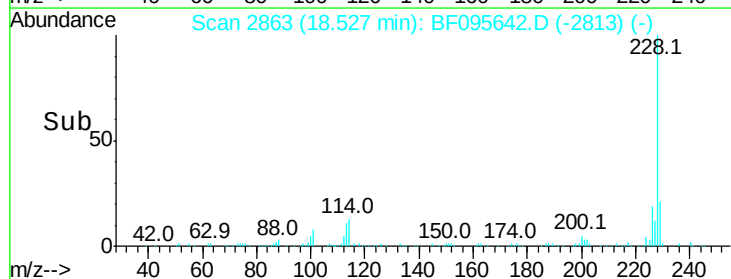
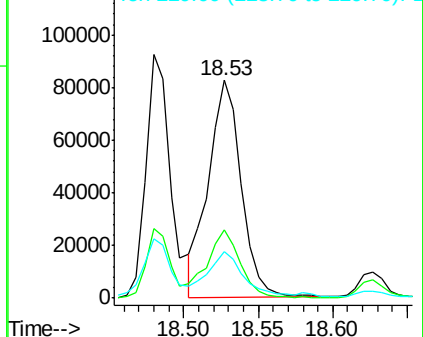
229 21.1 15.8 23.6

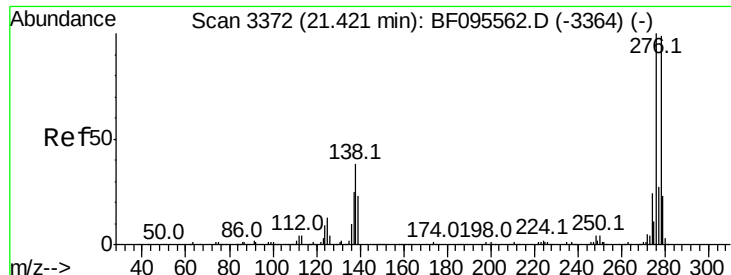


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

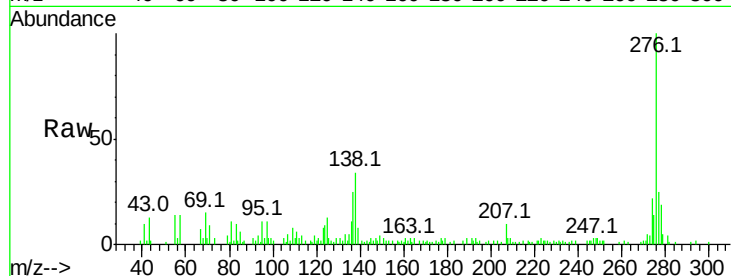




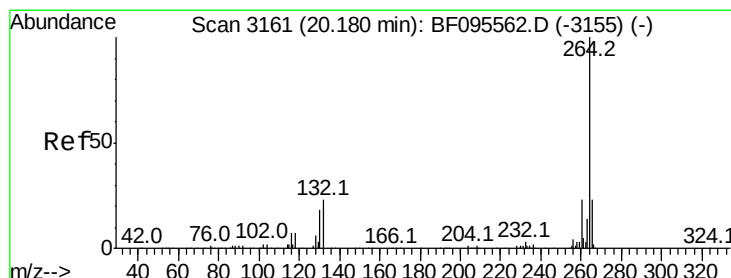
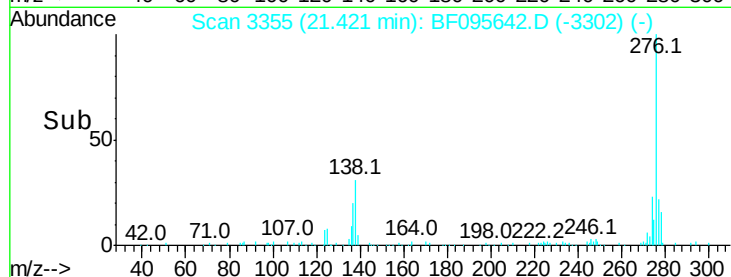
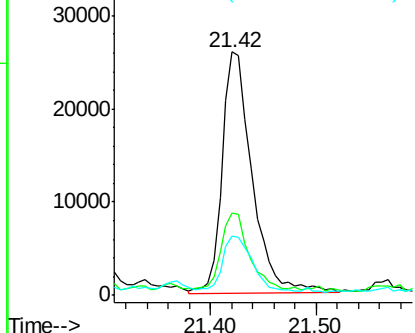
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.95 ng
RT: 21.42 min Scan# 3355
Delta R.T. 0.01 min
Lab File: BF095642.D
Acq: 2 Jun 2017 19:32

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.6	27.8	41.6
277	24.1	20.2	30.4

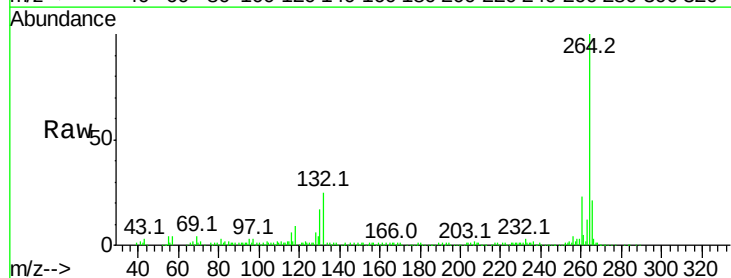


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

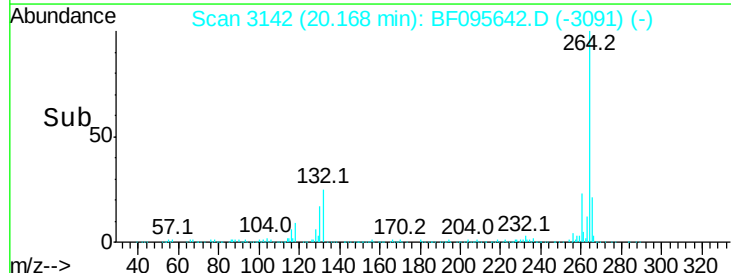
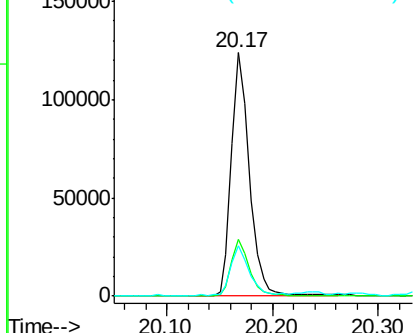


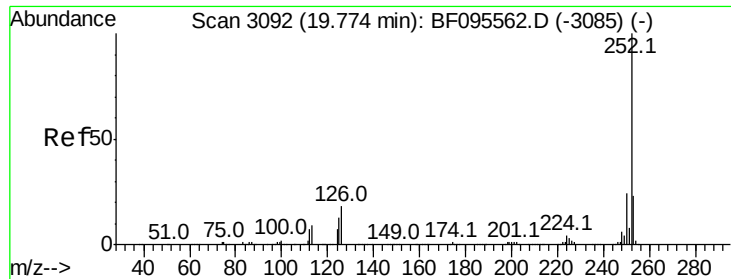
#86
Perylene-d12
Concen: 20.00 ng
RT: 20.17 min Scan# 3142
Delta R.T. -0.00 min
Lab File: BF095642.D
Acq: 2 Jun 2017 19:32

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.5	29.3
265	20.8	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: 15.39 ng

RT: 19.76 min Scan# 3073

Delta R.T. -0.00 min

Lab File: BF095642.D

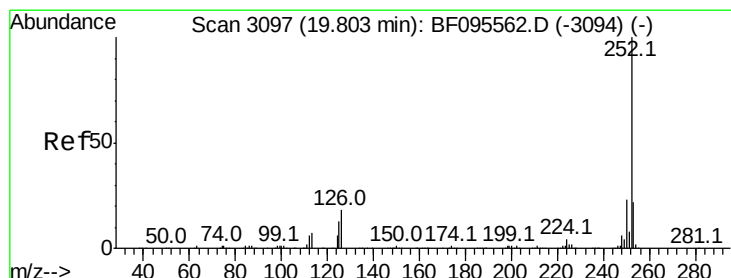
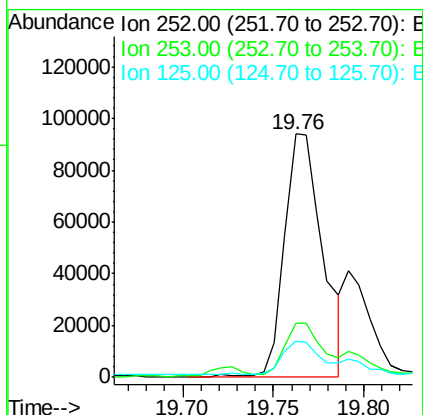
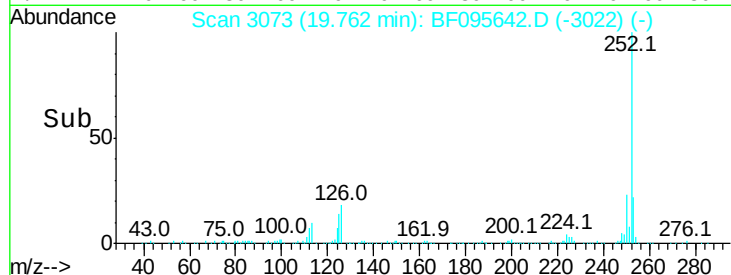
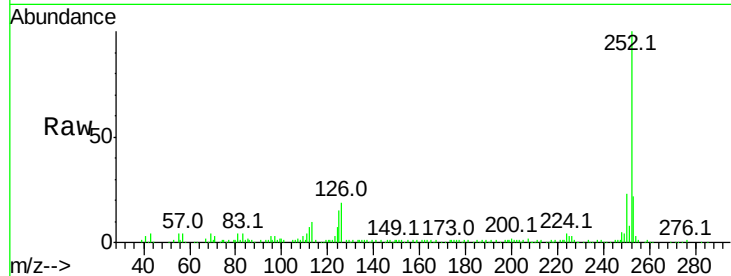
Acq: 2 Jun 2017 19:32

Instrument :

BNA_F

ClientSampleId :

Tot Ion:252	Resp:	139608
Ion Ratio	Lower	Upper
252	100	
253	22.3	18.1 27.1
125	15.1	9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 15.96 ng

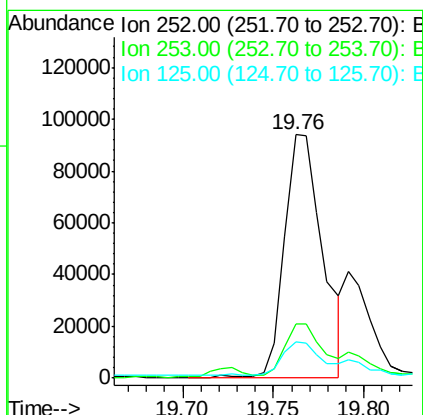
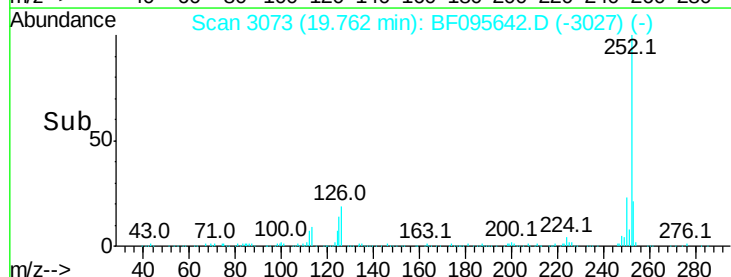
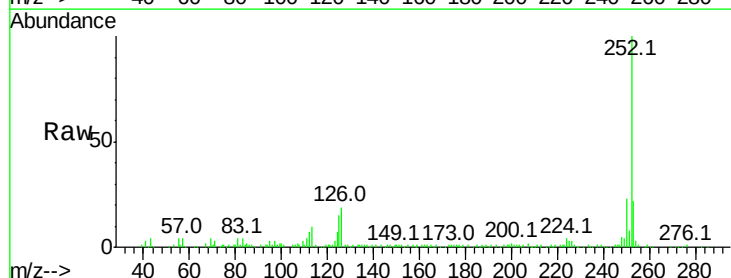
RT: 19.76 min Scan# 3073

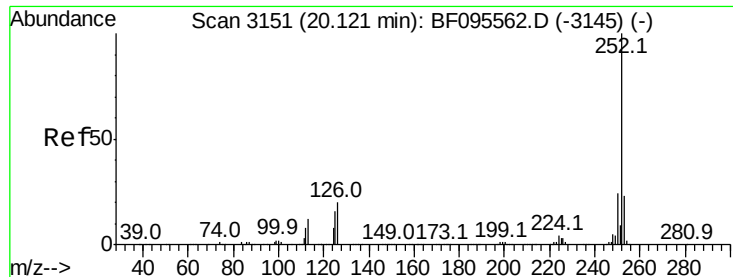
Delta R.T. -0.03 min

Lab File: BF095642.D

Acq: 2 Jun 2017 19:32

Tgt Ion:252	Resp:	139608
Ion Ratio	Lower	Upper
252	100	
253	22.3	18.4 27.6
125	15.1	13.1 19.7

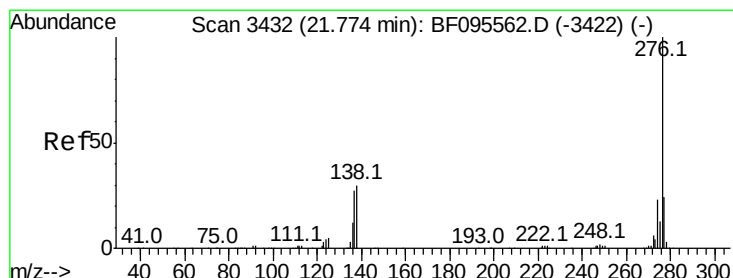
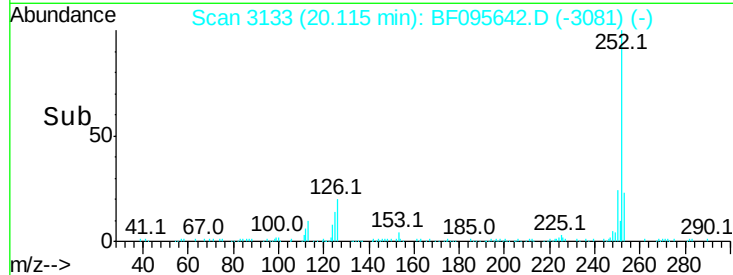
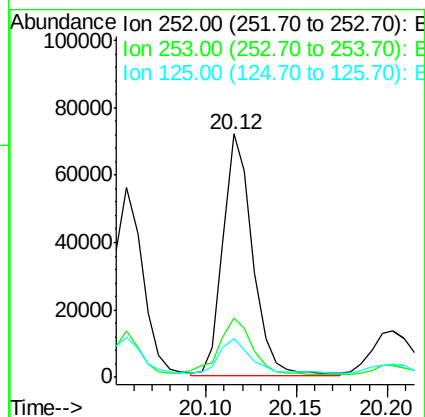
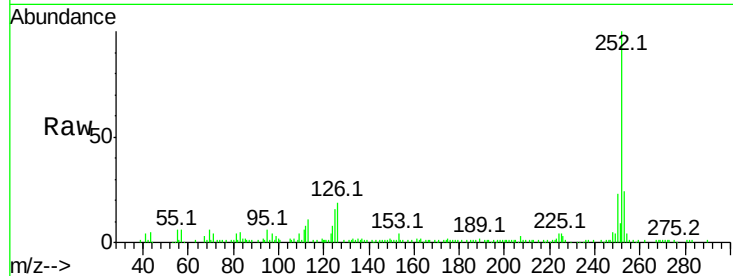




#89
Benzo(a)pyrene
Concen: 9.83 ng
RT: 20.12 min Scan# 3133
Delta R.T. 0.01 min
Lab File: BF095642.D
Acq: 2 Jun 2017 19:32

Instrument :
BNA_F
ClientSampled :

Tot Ion:252 Resp: 82230
Ion Ratio Lower Upper
252 100
253 24.1 17.5 26.3
125 15.9 11.0 16.4



#91
Benzo(g,h,i)perylene
Concen: 7.07 ng
RT: 21.79 min Scan# 3417
Delta R.T. 0.03 min
Lab File: BF095642.D
Acq: 2 Jun 2017 19:32

Tgt Ion:276 Resp: 47949
Ion Ratio Lower Upper
276 100
277 25.7 18.6 28.0
138 30.2 25.4 38.0

