

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\
 Data File : BF097665.D
 Acq On : 13 Aug 2017 10:03
 Operator : SJ/JU
 Sample : I4736-06
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-37-COMP

Quant Time: Aug 14 05:29:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	128392	20.00	ng	-0.01
21) Naphthalene-d8	9.53	136	514300	20.00	ng	-0.01
38) Acenaphthene-d10	12.35	164	198844	20.00	ng	-0.02
63) Phenanthrene-d10	14.75	188	263605	20.00	ng	-0.01
75) Chrysene-d12	18.45	240	187988	20.00	ng	-0.01
86) Perylene-d12	20.12	264	156917	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.43	112	839450	103.92	ng	0.02
7) Phenol-d6	7.07	99	948861	94.69	ng	0.02
23) Nitrobenzene-d5	8.42	82	578963	70.59	ng	0.00
41) 2,4,6-Tribromophenol	13.65	330	108623	71.86	ng	-0.01
44) 2-Fluorobiphenyl	11.30	172	672904	51.07	ng	-0.02
78) Terphenyl-d14	17.10	244	346043	38.10	ng	-0.02

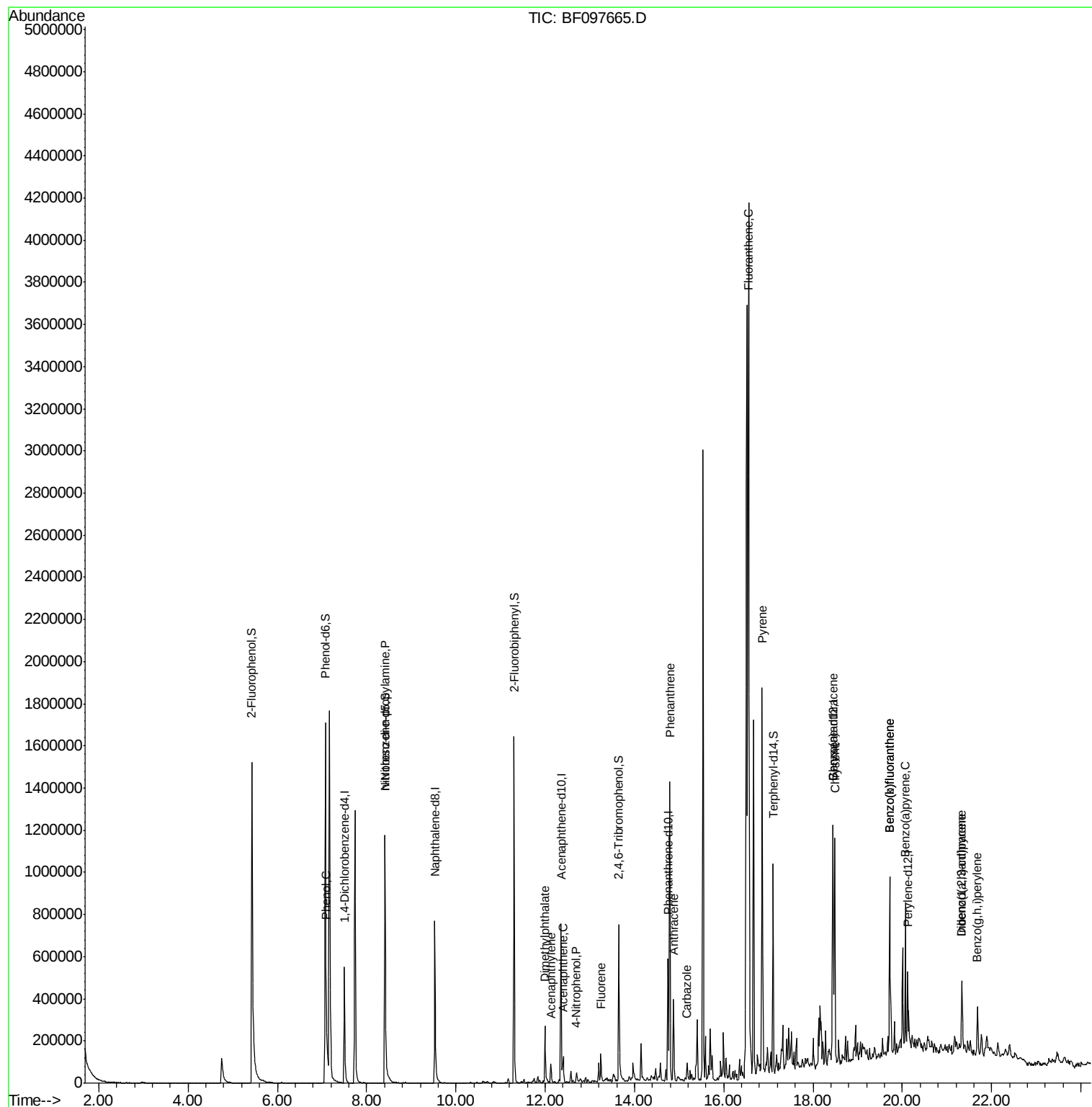
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	7.09	94	35647	3.25	ng	# 66
19) n-Nitroso-di-n-propylamine	8.42	70	74195	10.65	ng	# 88
48) Acenaphthylene	12.13	152	58942	2.83	ng	98
49) Dimethylphthalate	12.00	163	150131	9.80	ng	98
51) Acenaphthene	12.40	154	34769	2.79	ng	99
55) 4-Nitrophenol	12.70	139	11058	7.01	ng	# 25
57) Fluorene	13.24	166	45998	3.20	ng	95
70) Phenanthrene	14.79	178	750500	49.43	ng	99
71) Anthracene	14.87	178	199485	12.84	ng	97
72) Carbazole	15.17	167	51926	3.51	ng	98
74) Fluoranthene	16.56	202	682994	49.78	ng	96
77) Pvrene	16.86	202	877399	56.44	ng	98
80) Benzo(a)anthracene	18.44	228	438884	39.97	ng	97
82) Chrysene	18.49	228	412039	37.73	ng	98
85) Indeno(1,2,3-cd)pyrene	21.33	276	181619	21.38	ng	96
87) Benzo(b)fluoranthene	19.72	252	630849	66.95	ng	95
88) Benzo(k)fluoranthene	19.72	252	630849	66.48	ng	96
89) Benzo(a)pyrene	20.07	252	318225	36.80	ng	100
90) Dibenzo(a,h)anthracene	21.33	278	43568	7.04	ng	# 77
91) Benzo(a,h,i)perylene	21.69	276	162157	23.87	ng	98

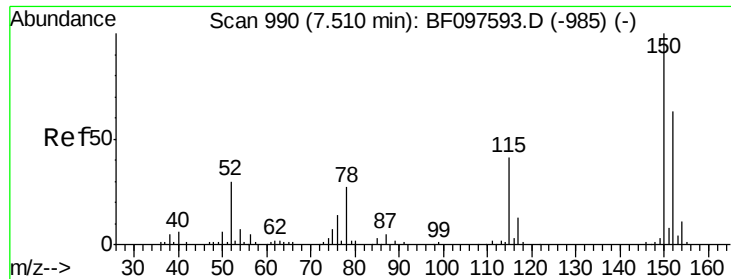
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.50 min Scan# 988

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

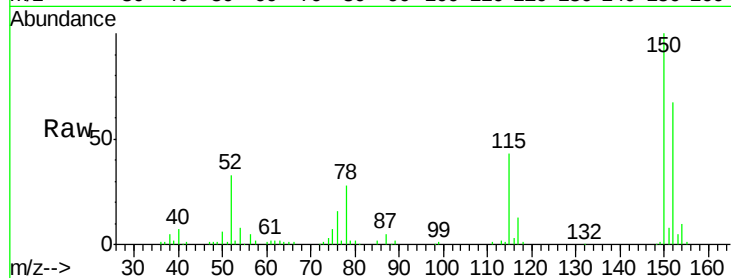
Tot Ion:152 Resp: 128392

Ion Ratio Lower Upper

152 100

150 149.1 126.2 189.2

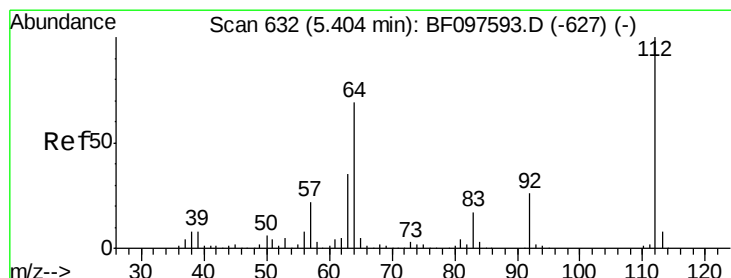
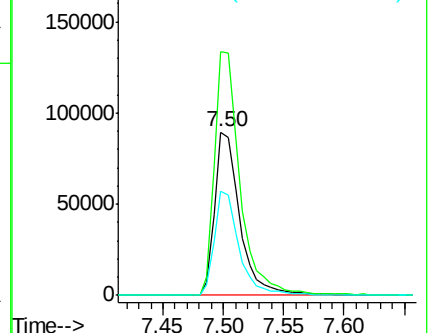
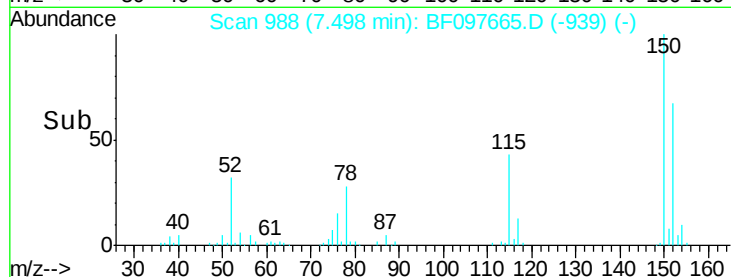
115 64.1 52.2 78.2



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: 103.92 ng

RT: 5.43 min Scan# 636

Delta R.T. 0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

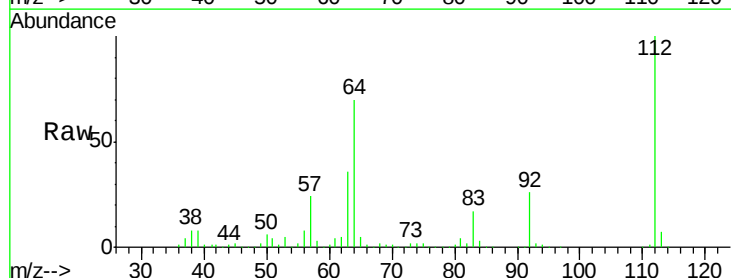
Tgt Ion:112 Resp: 839450

Ion Ratio Lower Upper

112 100

64 70.1 46.0 69.0#

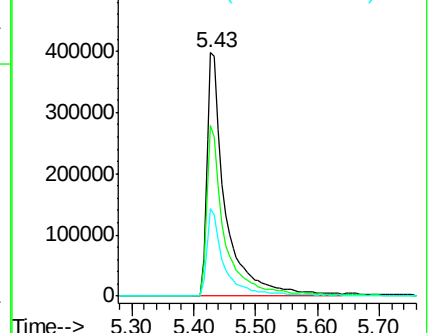
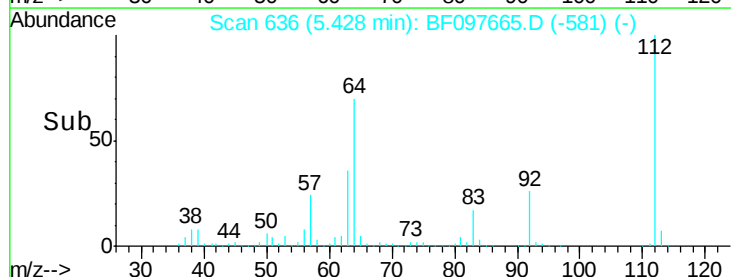
63 35.7 23.4 35.0#

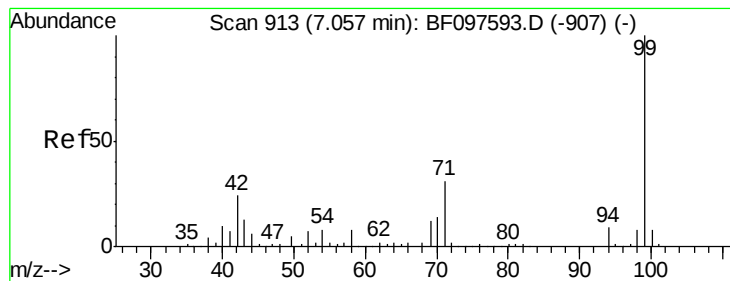


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 94.69 ng

RT: 7.07 min Scan# 916

Delta R.T. 0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

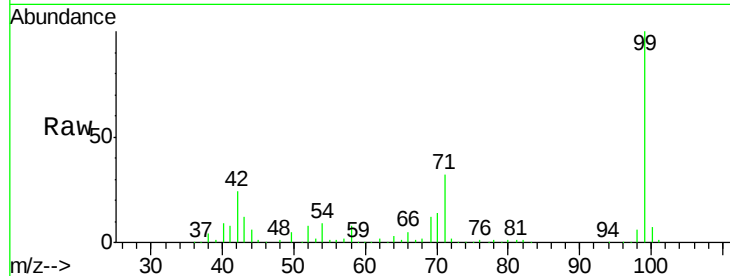
Tot Ion: 99 Resp: 948861

Ion Ratio Lower Upper

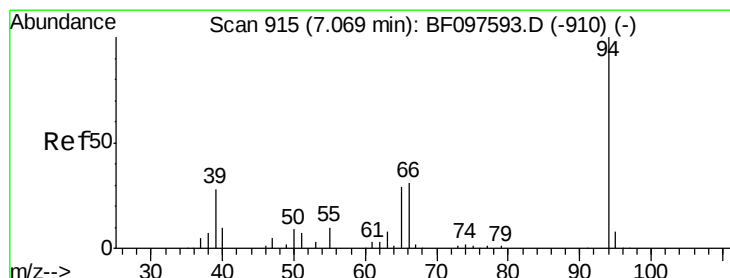
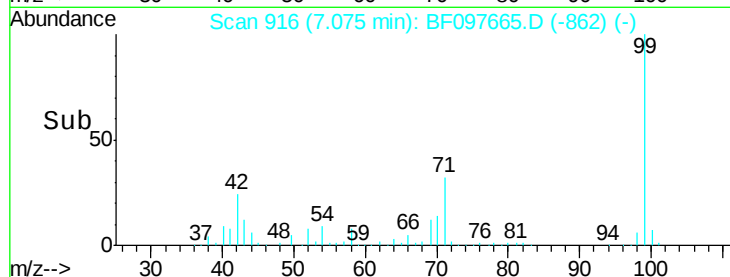
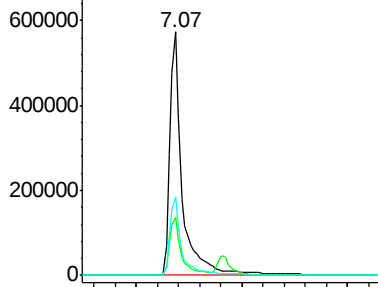
99 100

42 23.9 13.5 20.3#

71 32.2 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: 3.25 ng

RT: 7.09 min Scan# 919

Delta R.T. 0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

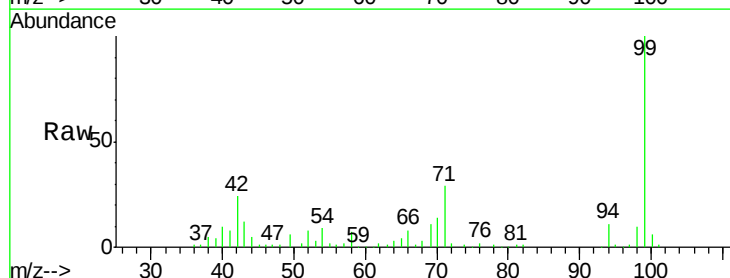
Tgt Ion: 94 Resp: 35647

Ion Ratio Lower Upper

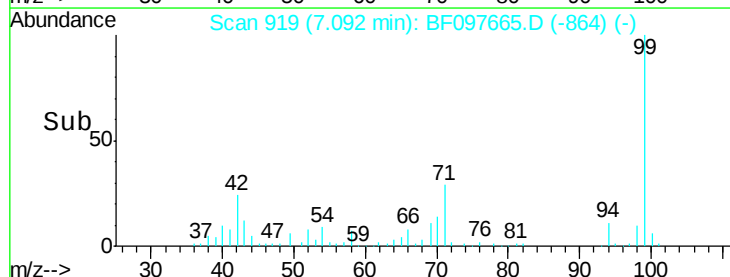
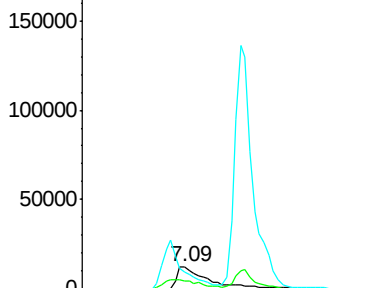
94 100

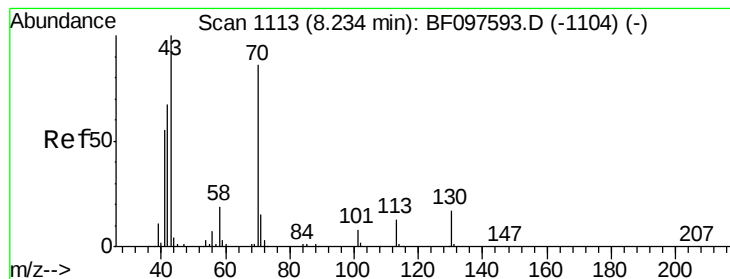
65 35.8 9.9 49.9

66 75.0 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: 10.65 ng

RT: 8.42 min Scan# 1144

Delta R.T. 0.18 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

Tot Ion: 70 Resp: 74195

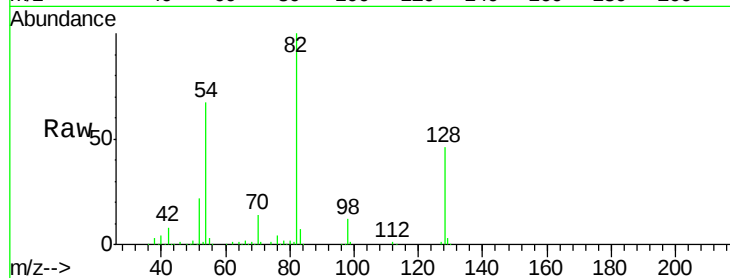
Ion Ratio Lower Upper

70 100

42 59.8 47.2 70.8

101 0.0 7.2 10.8#

130 1.8 15.9 23.9#

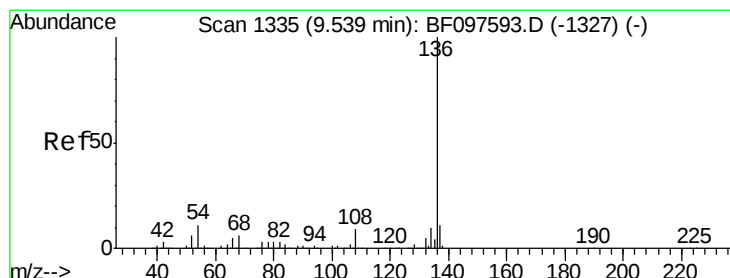
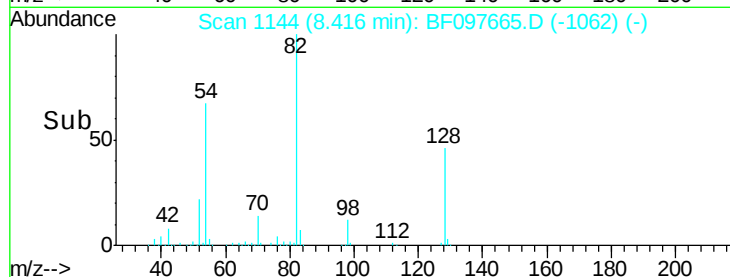
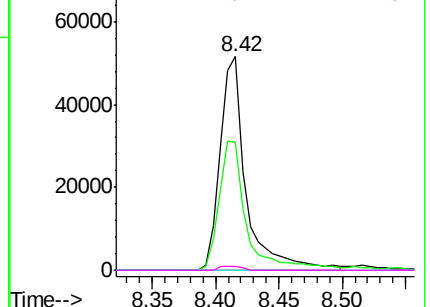


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.53 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Tgt Ion: 136 Resp: 514300

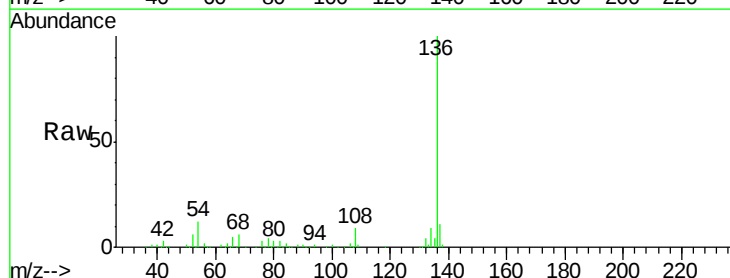
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 11.6 4.9 7.3#

68 6.4 4.1 6.1#

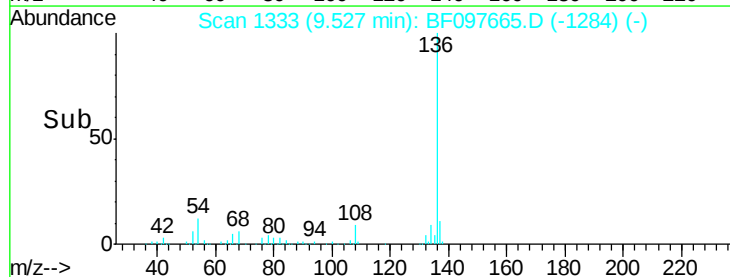
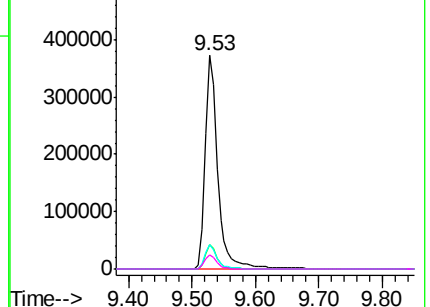


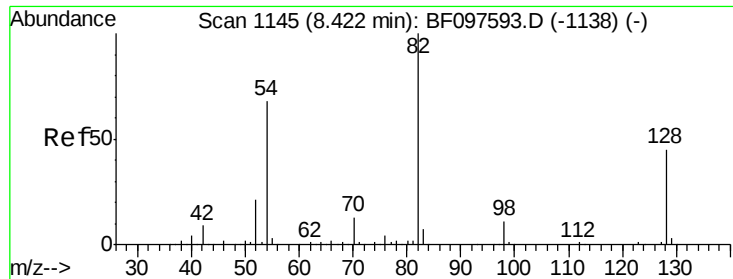
Abundance Ion 136.00 (135.70 to 136.70): E

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

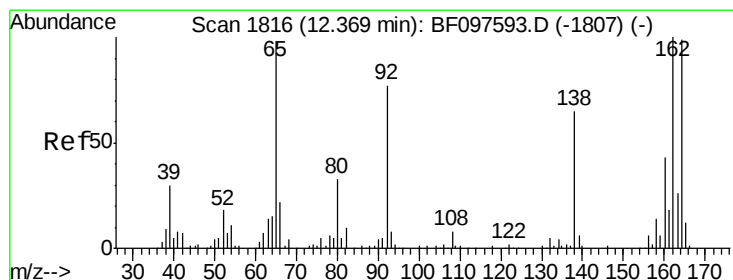
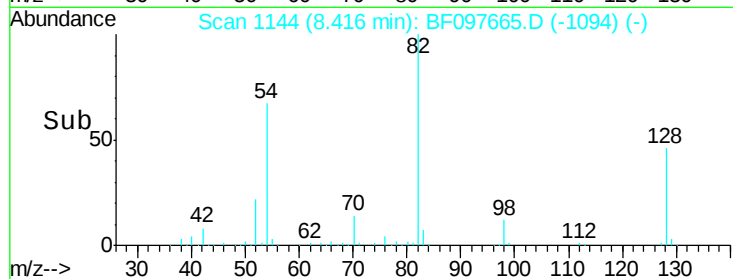
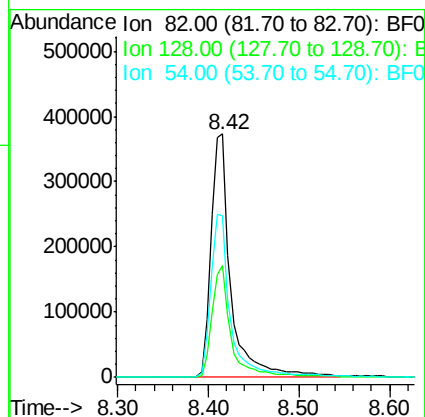
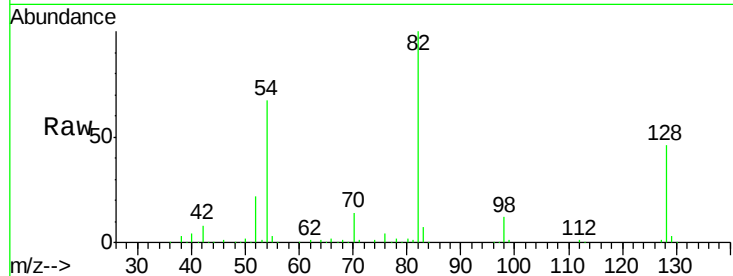




#23
 Nitrobenzene-d5
 Concen: 70.59 ng
 RT: 8.42 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

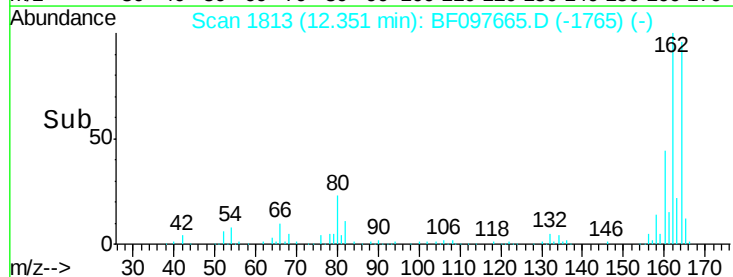
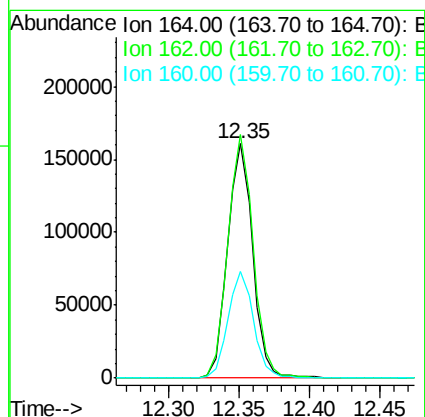
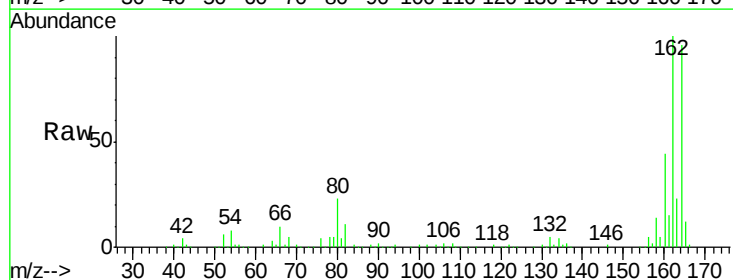
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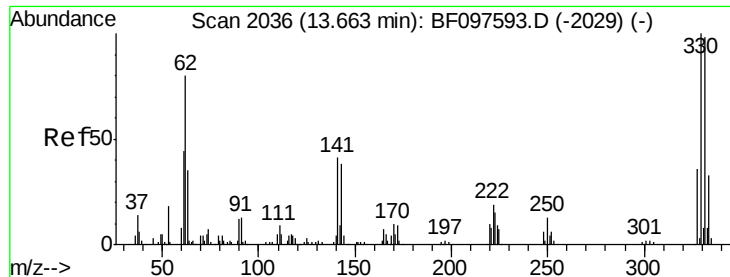
Tot Ion: 82 Resp: 578963
 Ion Ratio Lower Upper
 82 100
 128 45.9 34.0 51.0
 54 66.5 42.2 63.2#



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 12.35 min Scan# 1813
 Delta R.T. -0.02 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

Tgt Ion: 164 Resp: 198844
 Ion Ratio Lower Upper
 164 100
 162 103.8 82.6 123.8
 160 45.5 36.2 54.2

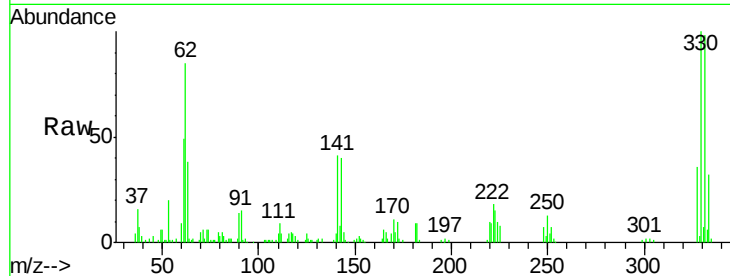




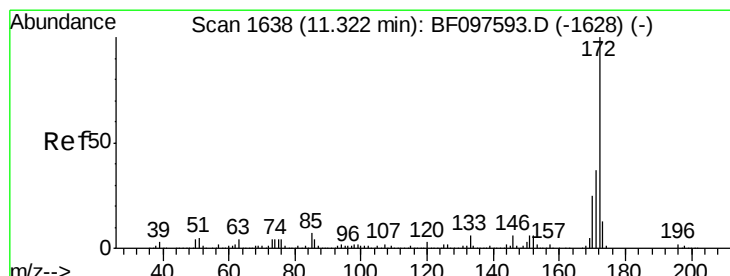
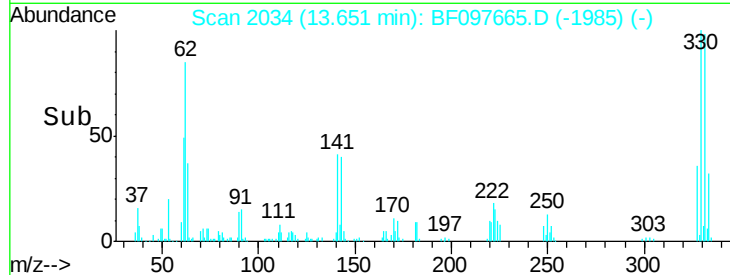
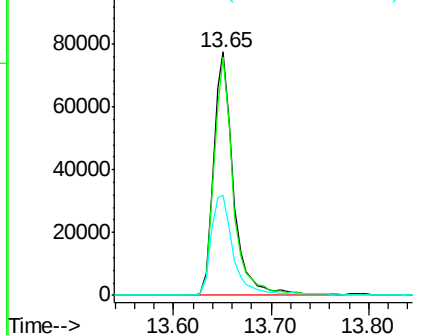
#41
 2,4,6-Tribromophenol
 Concen: 71.86 ng
 RT: 13.65 min Scan# 2034
 Delta R.T. -0.01 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

Instrument :
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Tot Ion	Ratio	Lower	Upper
330	100		
332	94.6	76.6	115.0
141	45.6	31.4	47.2

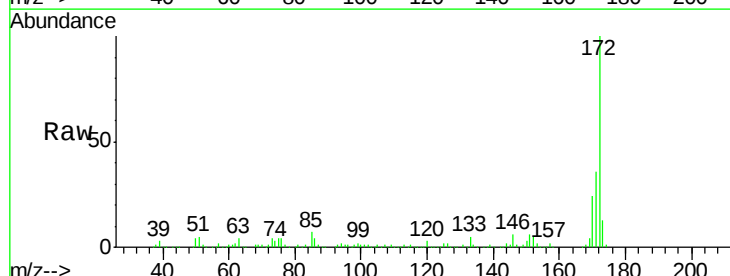


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

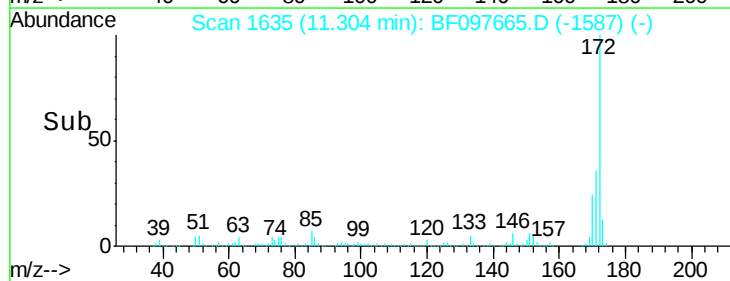
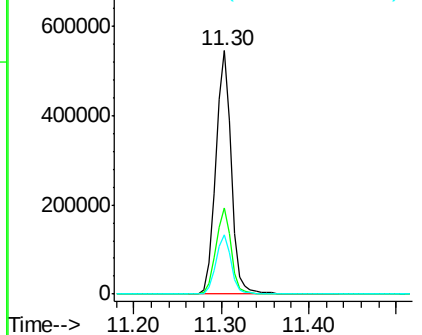


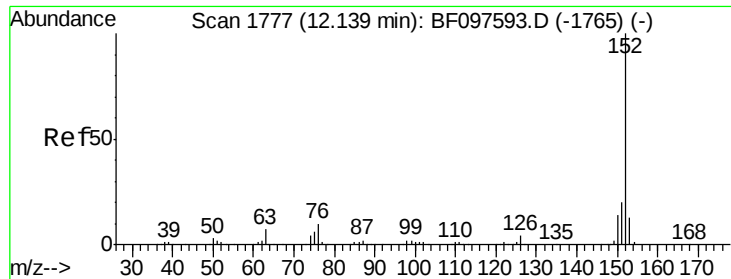
#44
 2-Fluorobiphenyl
 Concen: 51.07 ng
 RT: 11.30 min Scan# 1635
 Delta R.T. -0.02 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.6	44.4
170	24.3	19.8	29.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.83 ng

RT: 12.13 min Scan# 1775

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

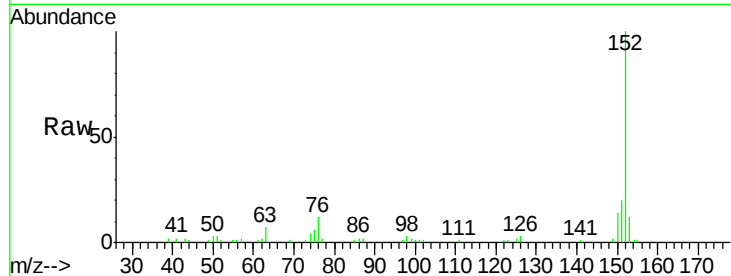
Tot Ion:152 Resp: 58942

Ion Ratio Lower Upper

152 100

151 19.9 16.8 25.2

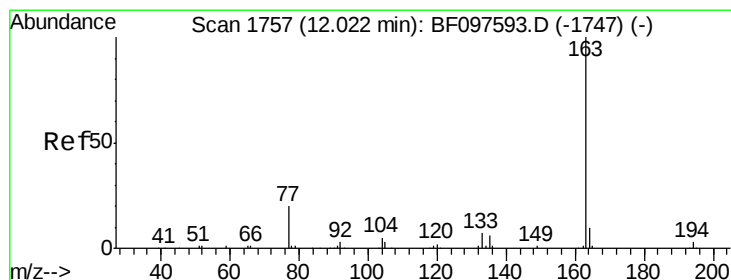
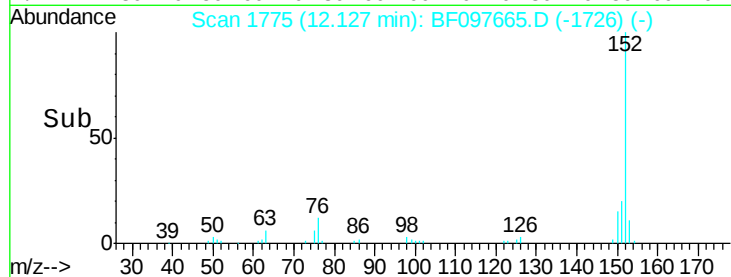
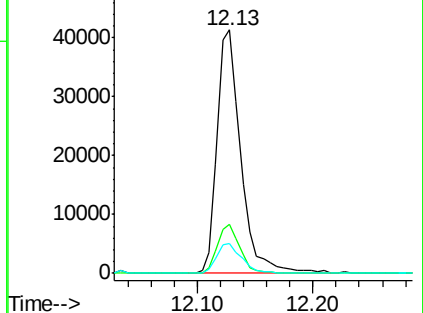
153 12.5 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 9.80 ng

RT: 12.00 min Scan# 1753

Delta R.T. -0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

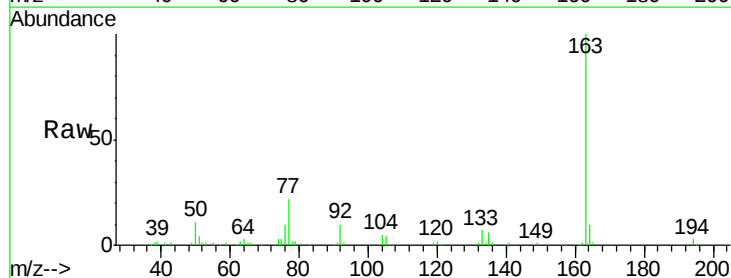
Tgt Ion:163 Resp: 150131

Ion Ratio Lower Upper

163 100

194 3.4 2.6 4.0

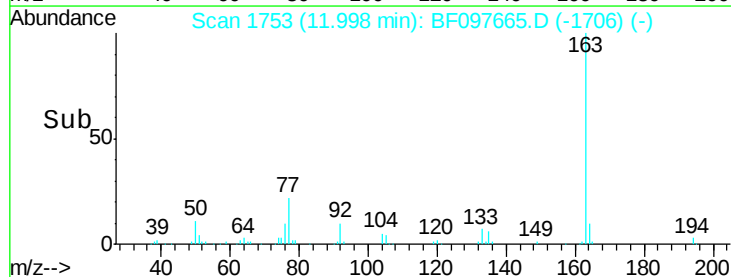
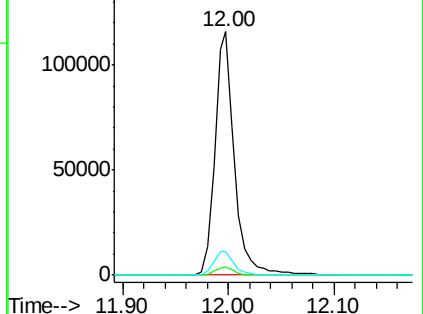
164 9.6 8.4 12.6

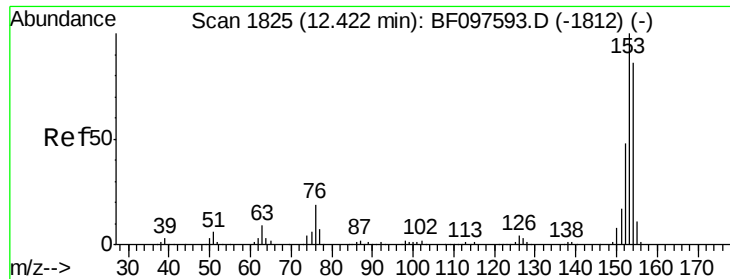


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.79 ng

RT: 12.40 min Scan# 1822

Delta R.T. -0.02 min

Lab File: BF097665.D

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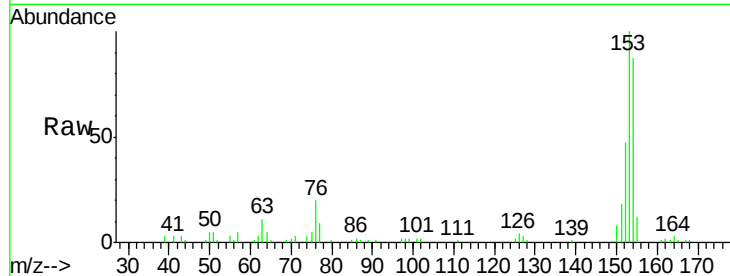
Tot Ion:154 Resp: 34769

Ion Ratio Lower Upper

154 100

153 114.8 90.5 135.7

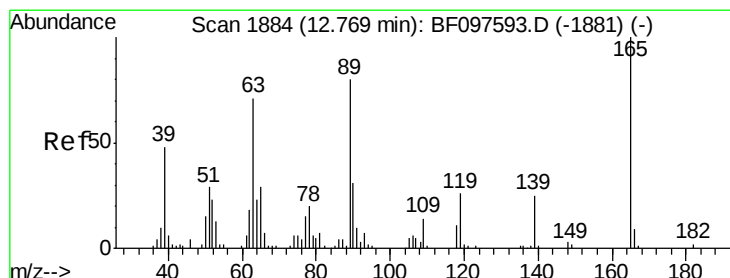
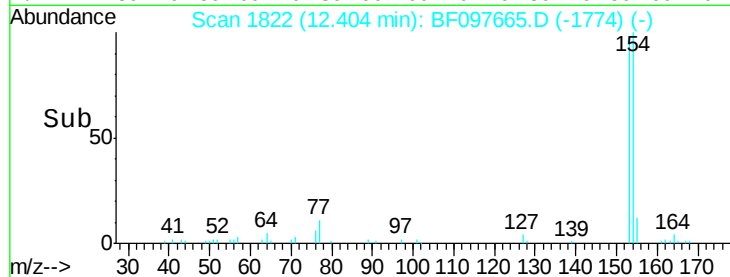
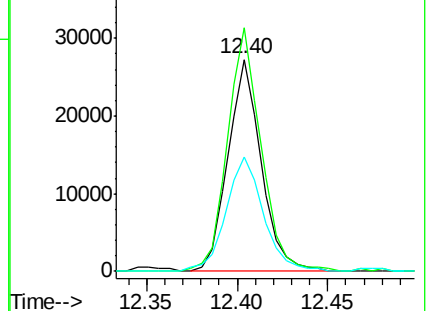
152 54.1 43.6 65.4



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: 7.01 ng

RT: 12.70 min Scan# 1873

Delta R.T. -0.06 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

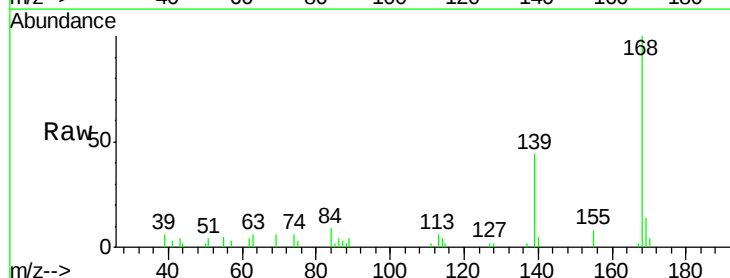
Tgt Ion:139 Resp: 11058

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

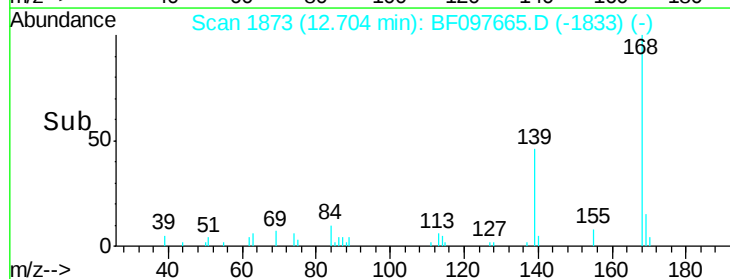
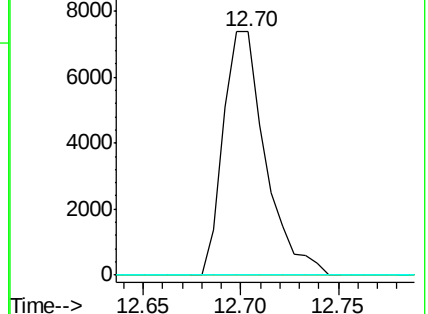
65 0.0 31.4 71.4#

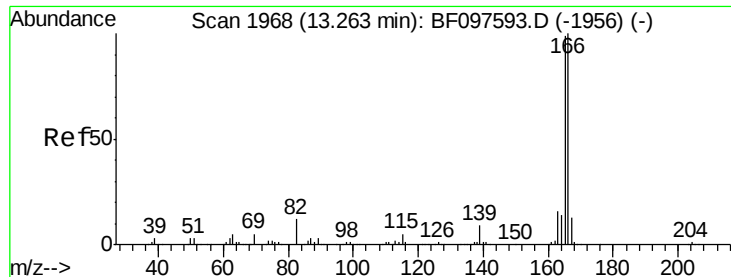


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

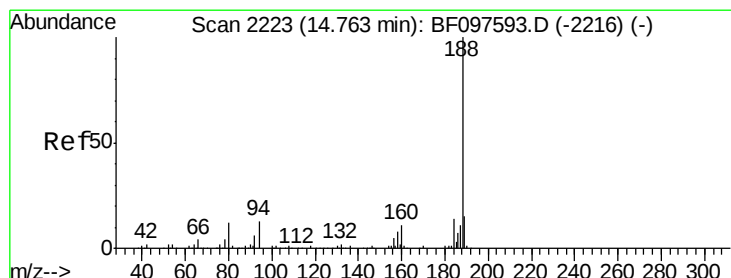
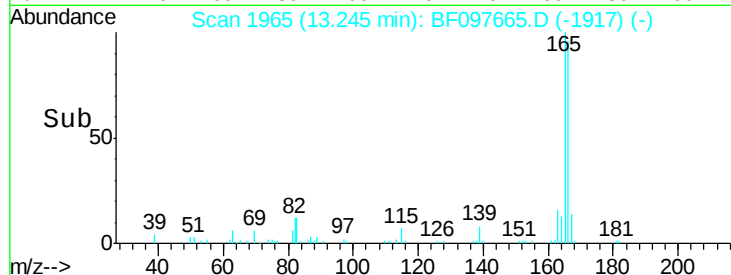
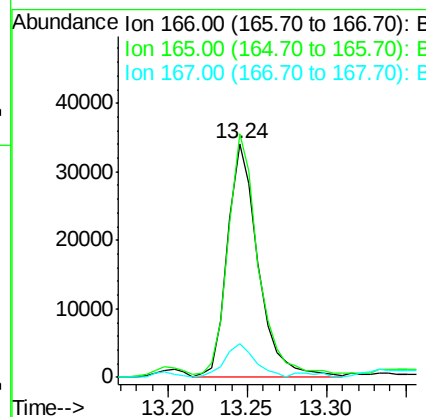
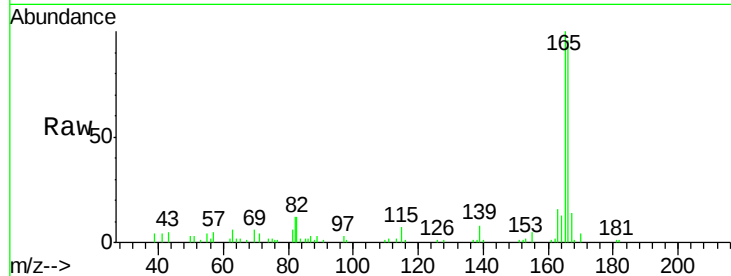




#57
 Fluorene
 Concen: 3.20 ng
 RT: 13.24 min Scan# 1965
 Delta R.T. -0.02 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

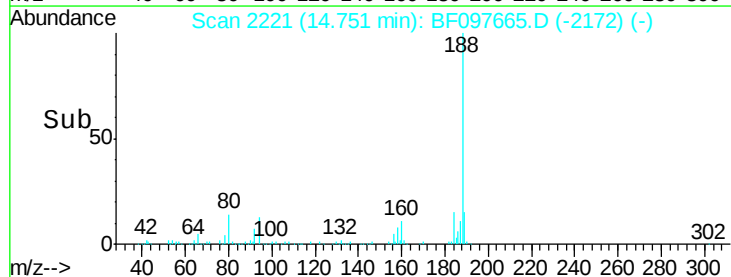
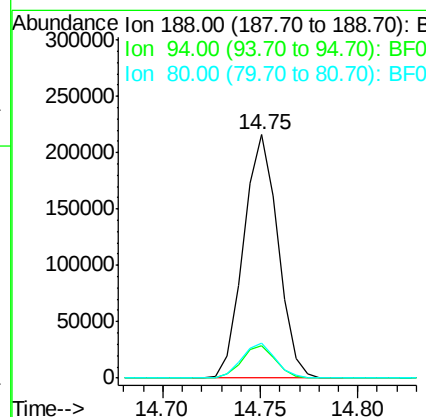
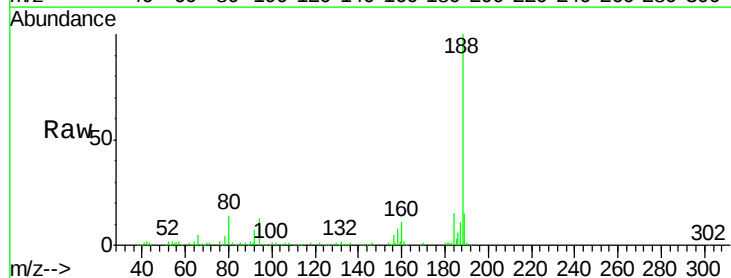
Instrument :
 BNA_F
 ClientSampleId :
 SB-37-COMP

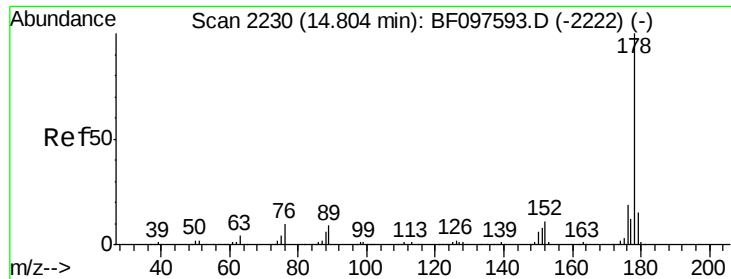
Tot Ion:166 Resp: 45998
 Ion Ratio Lower Upper
 166 100
 165 104.2 78.8 118.2
 167 14.3 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.75 min Scan# 2221
 Delta R.T. -0.01 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

Tgt Ion:188 Resp: 263605
 Ion Ratio Lower Upper
 188 100
 94 13.4 9.4 14.2
 80 14.2 10.2 15.2

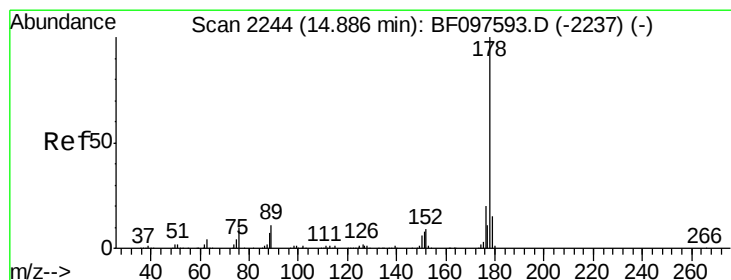
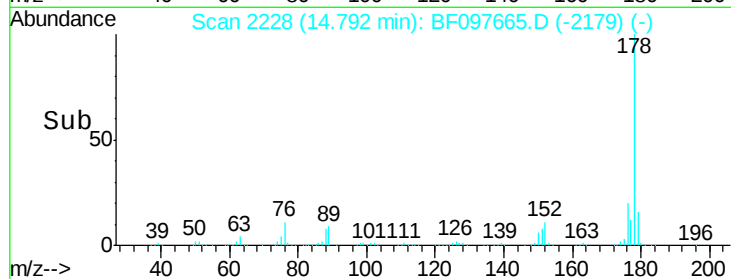
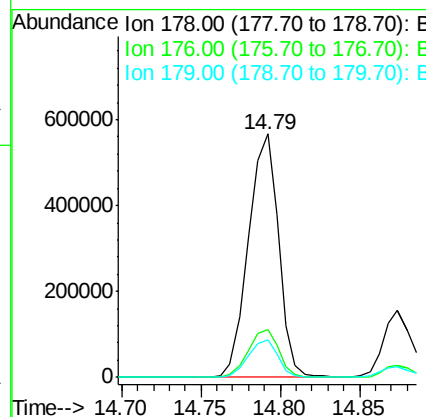
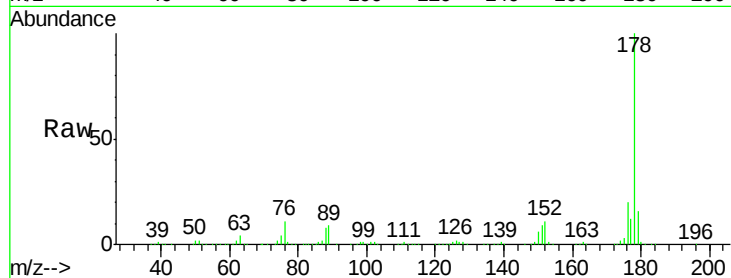




#70
Phenanthrene
Concen: 49.43 ng
RT: 14.79 min Scan# 2228
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

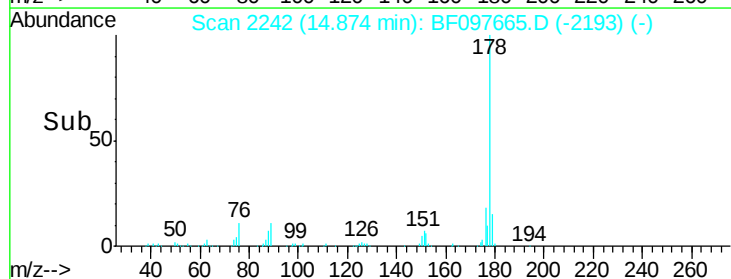
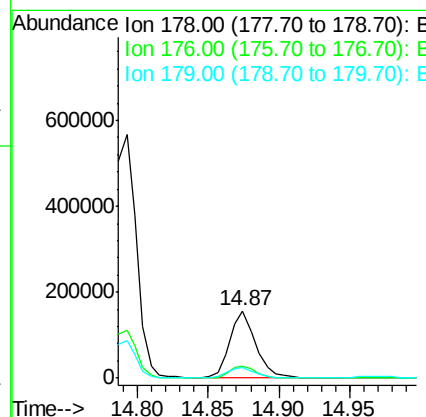
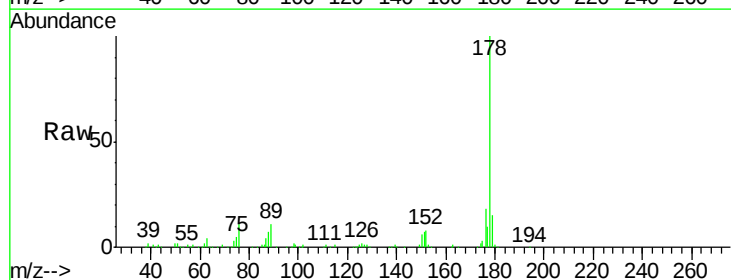
Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

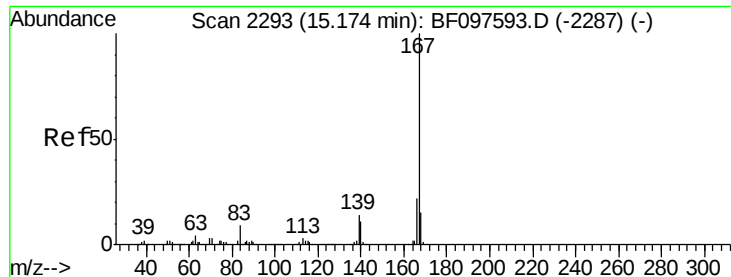
Tot Ion:178 Resp: 750500
Ion Ratio Lower Upper
178 100
176 19.8 16.2 24.4
179 15.7 12.6 19.0



#71
Anthracene
Concen: 12.84 ng
RT: 14.87 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion:178 Resp: 199485
Ion Ratio Lower Upper
178 100
176 18.3 15.8 23.8
179 15.0 12.7 19.1

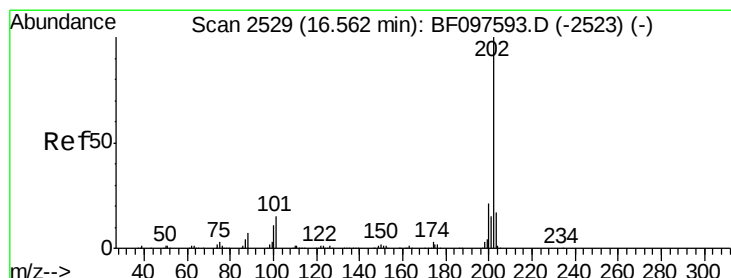
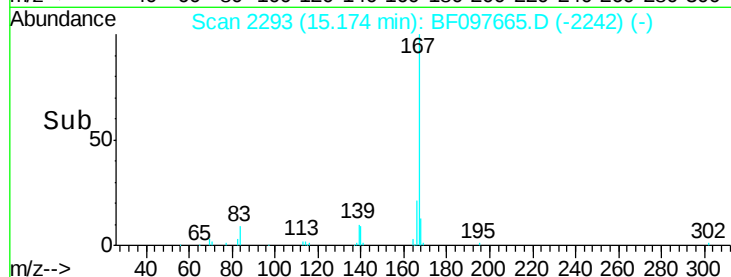
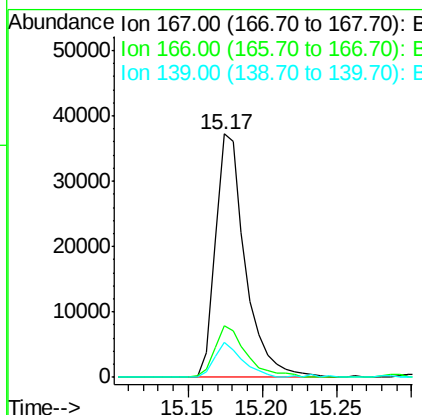
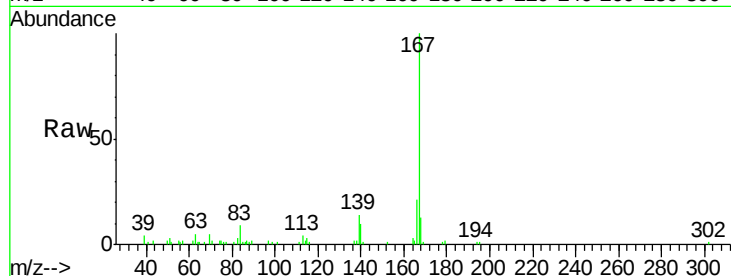




#72
 Carbazole
 Concen: 3.51 ng
 RT: 15.17 min Scan# 2293
 Delta R.T. -0.00 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

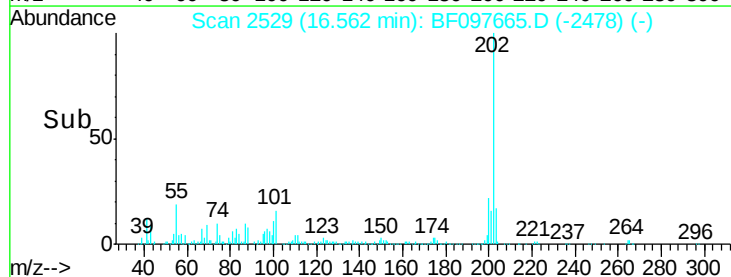
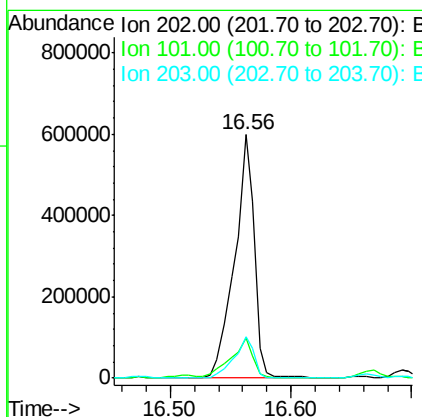
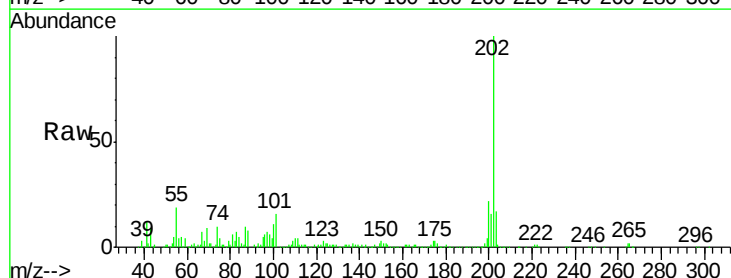
Instrument :
 BNA_F
 ClientSampleId :
 SB-37-COMP

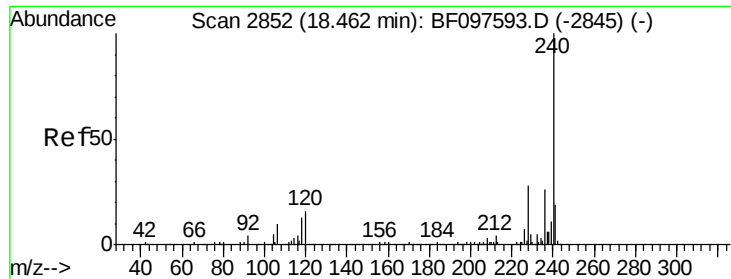
Tot Ion	167	Resp	51926
Ion Ratio	100	Lower	Upper
166	21.0	18.1	27.1
139	14.5	11.7	17.5



#74
 Fluoranthene
 Concen: 49.78 ng
 RT: 16.56 min Scan# 2529
 Delta R.T. -0.00 min
 Lab File: BF097665.D
 Acq: 13 Aug 2017 10:03

Tgt Ion	202	Resp	682994
Ion Ratio	100	Lower	Upper
101	16.2	0.0	33.2
203	17.2	0.0	38.1

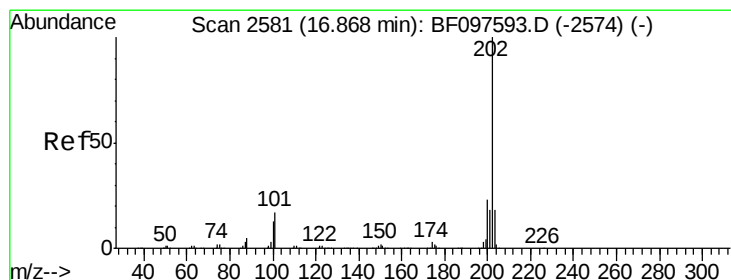
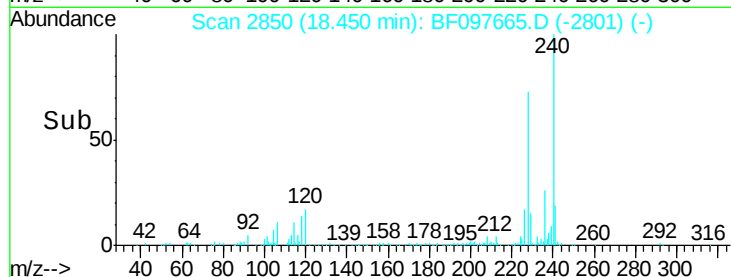
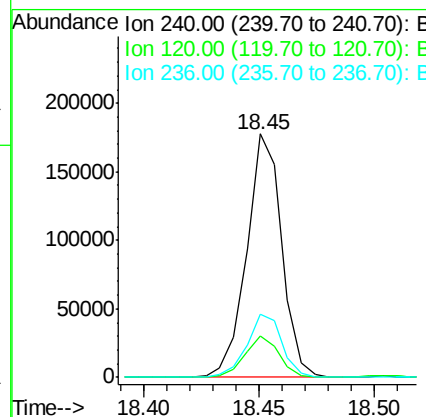
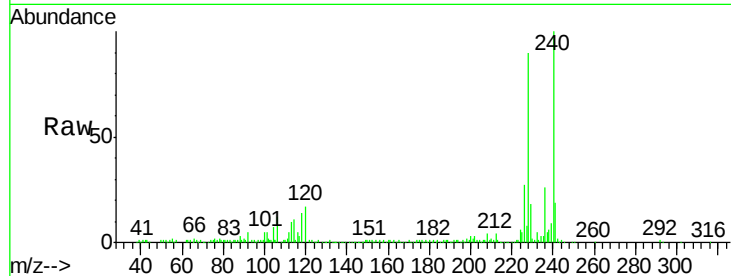




#75
Chrysene-d12
Concen: 20.00 ng
RT: 18.45 min Scan# 2850
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

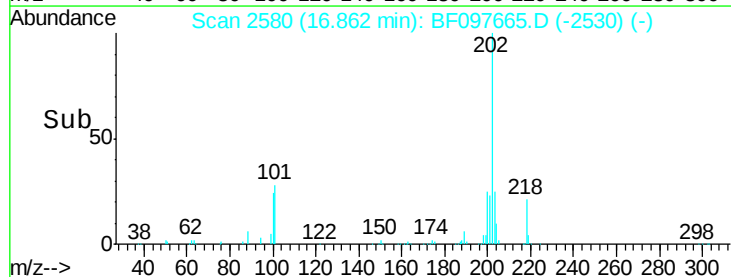
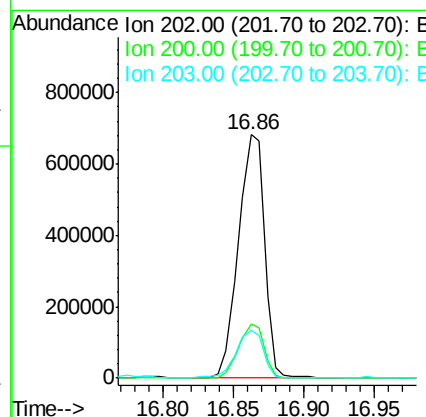
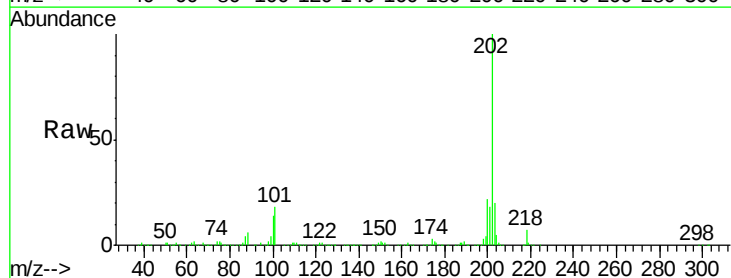
Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

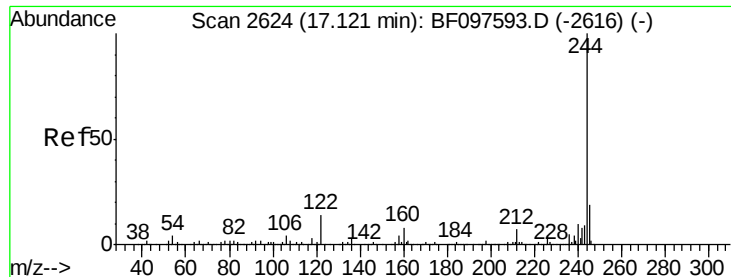
Tot Ion:240 Resp: 187988
Ion Ratio Lower Upper
240 100
120 17.2 5.8 8.8#
236 26.0 20.5 30.7



#77
Pyrene
Concen: 56.44 ng
RT: 16.86 min Scan# 2580
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion:202 Resp: 877399
Ion Ratio Lower Upper
202 100
200 22.3 17.6 26.4
203 19.9 14.4 21.6





#78

Terphenyl-d14

Concen: 38.10 ng

RT: 17.10 min Scan# 2621

Delta R.T. -0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

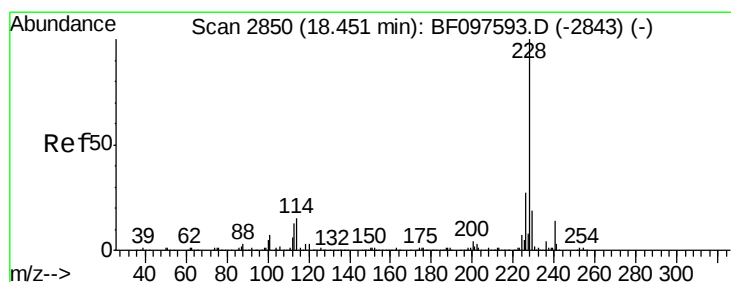
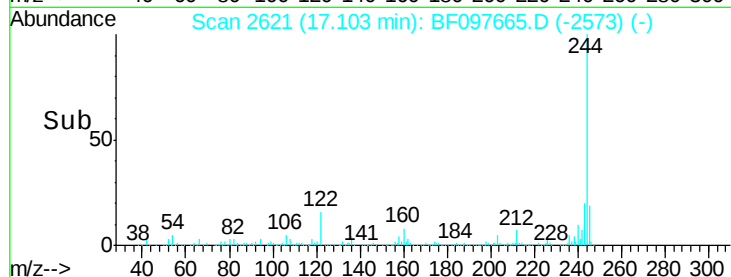
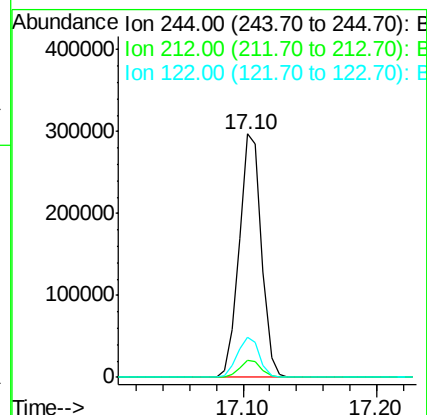
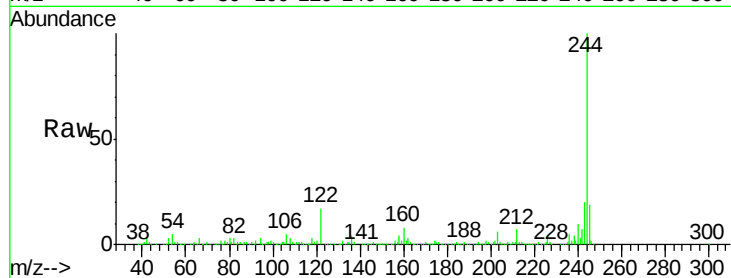
Tot Ion:244 Resp: 346043

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

122 16.6 10.3 15.5#



#80

Benzo(a)anthracene

Concen: 39.97 ng

RT: 18.44 min Scan# 2848

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

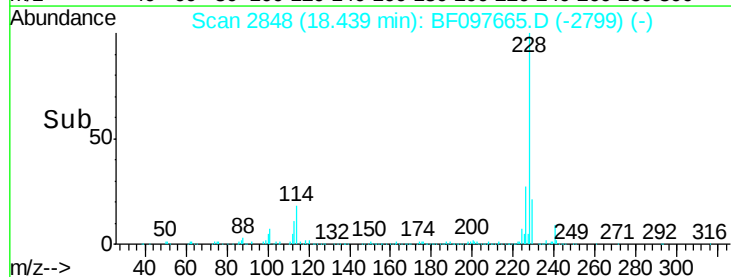
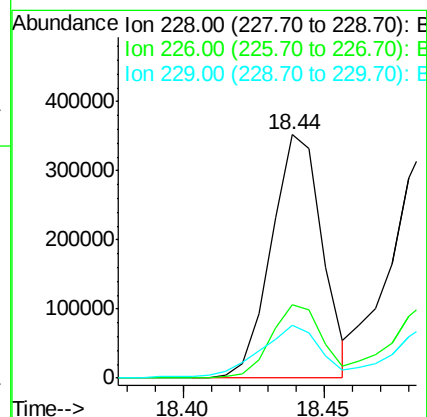
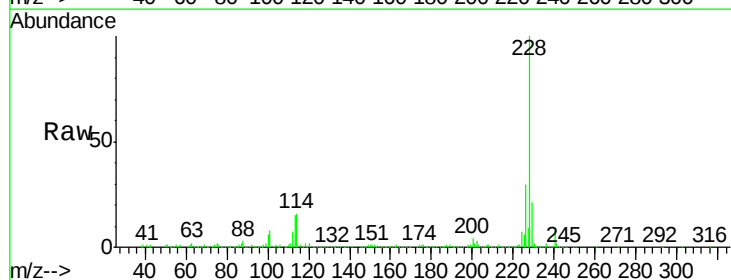
Tgt Ion:228 Resp: 438884

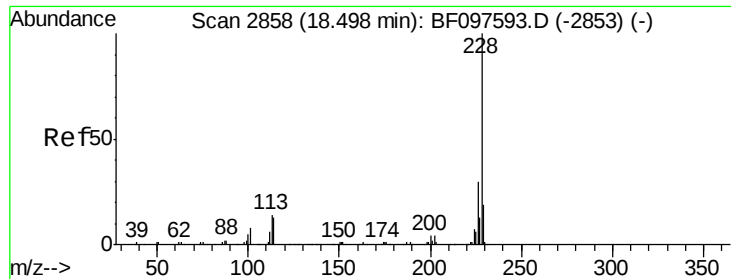
Ion Ratio Lower Upper

228 100

226 30.3 22.6 33.8

229 21.5 16.3 24.5





#82

Chrysene

Concen: 37.73 ng

RT: 18.49 min Scan# 2856

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

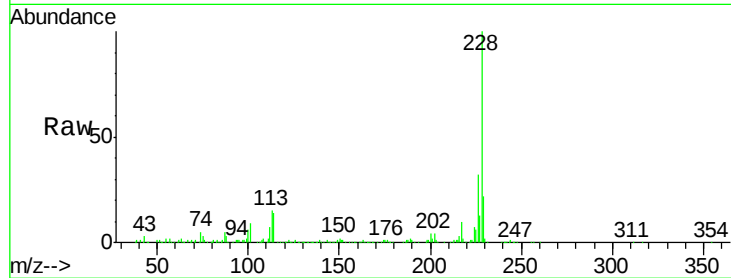
Tot Ion:228 Resp: 412039

Ion Ratio Lower Upper

228 100

226 31.5 24.9 37.3

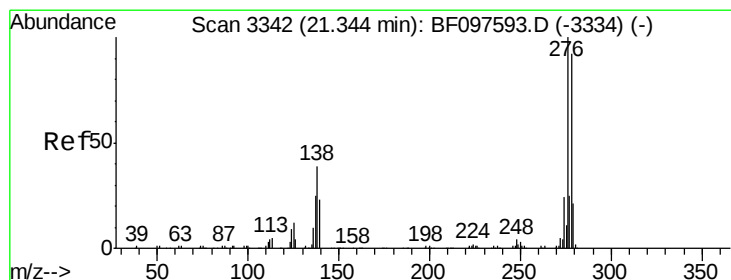
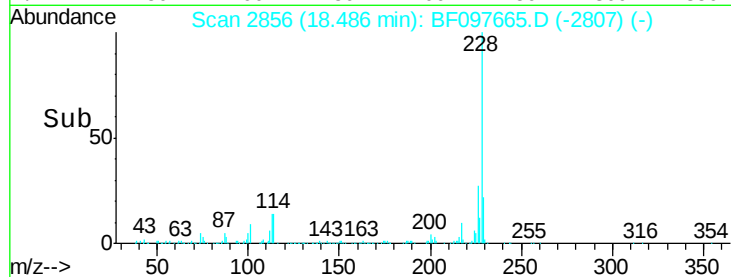
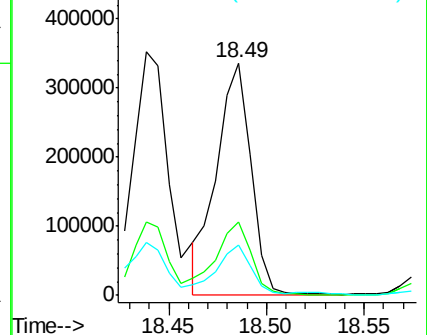
229 21.6 15.8 23.6



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: 21.38 ng

RT: 21.33 min Scan# 3340

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

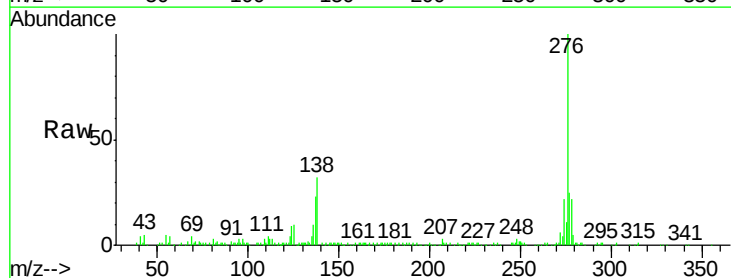
Tgt Ion:276 Resp: 181619

Ion Ratio Lower Upper

276 100

138 32.6 27.8 41.6

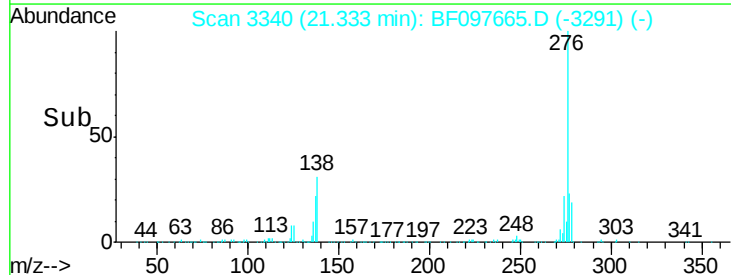
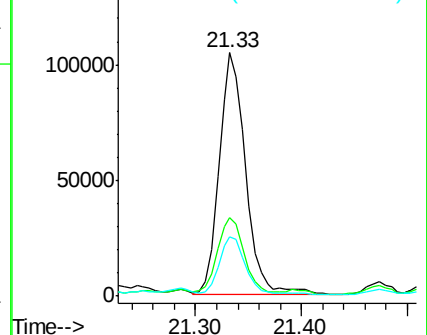
277 22.5 20.2 30.4

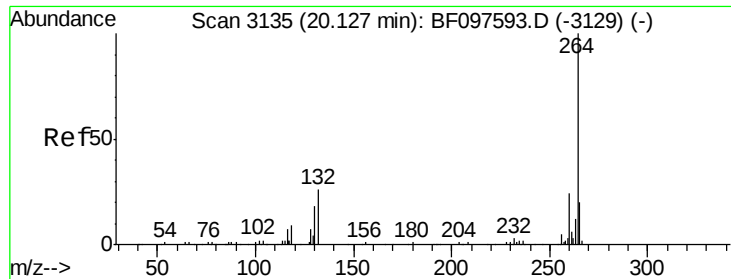


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

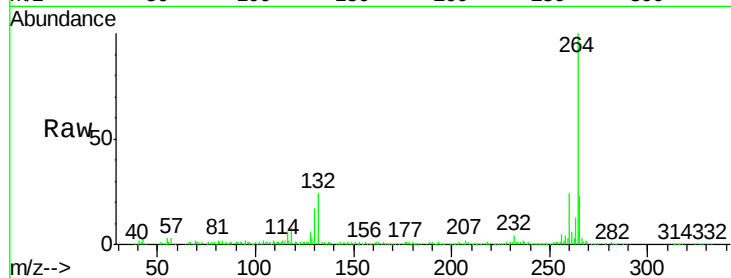




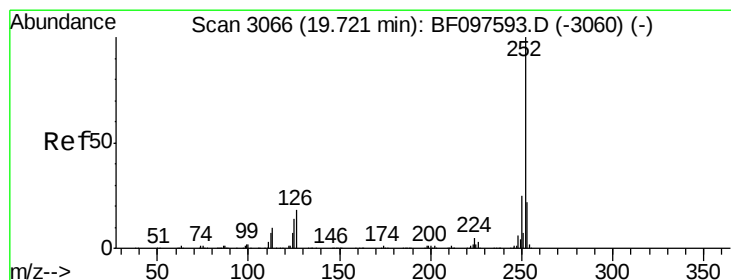
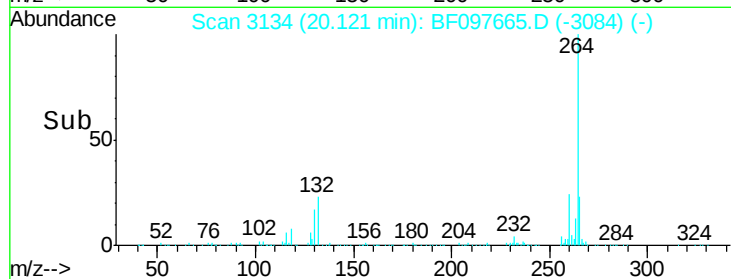
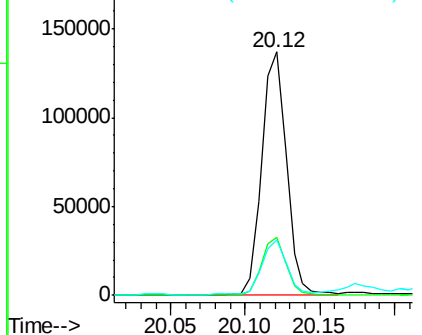
#86
Pervlene-d12
Concen: 20.00 ng
RT: 20.12 min Scan# 3134
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	22.9	17.2	25.8

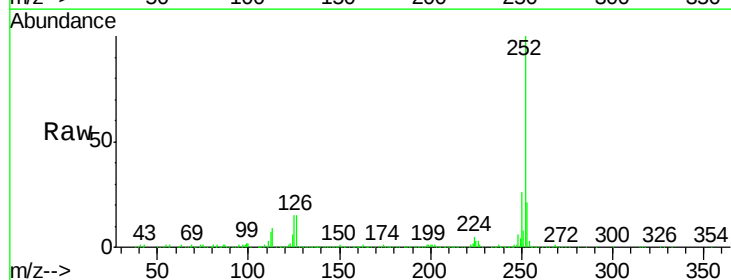


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

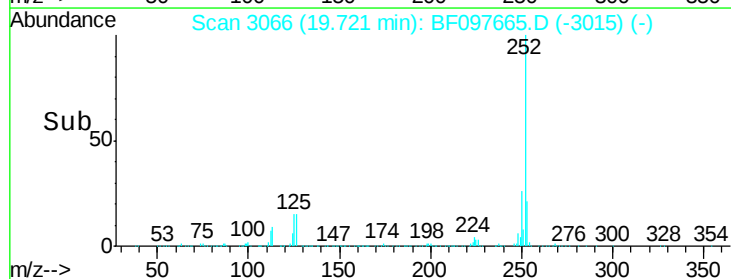
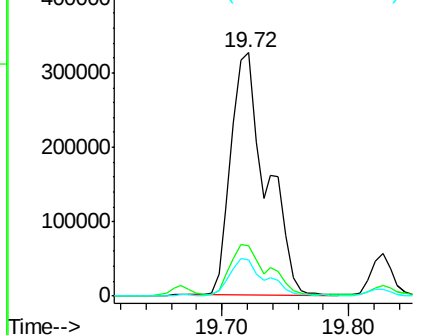


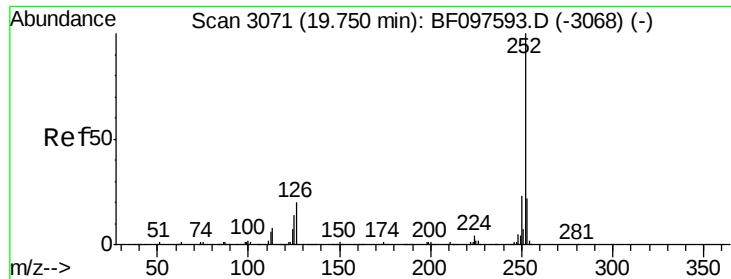
#87
Benzo(b)fluoranthene
Concen: 66.95 ng
RT: 19.72 min Scan# 3066
Delta R.T. -0.00 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	20.8	18.1	27.1
125	14.7	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

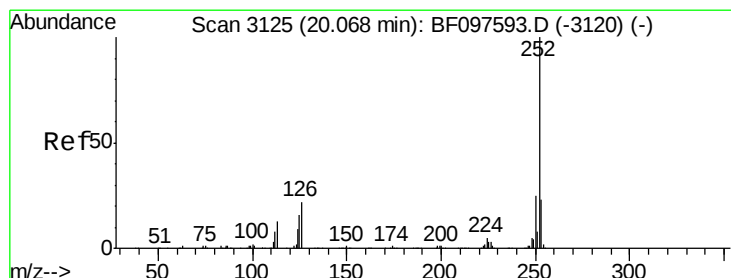
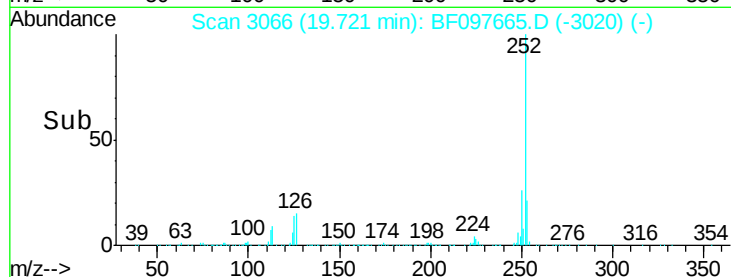
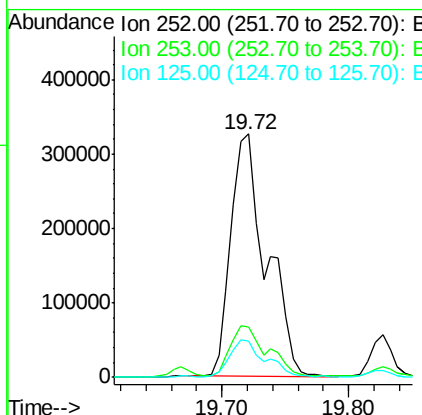
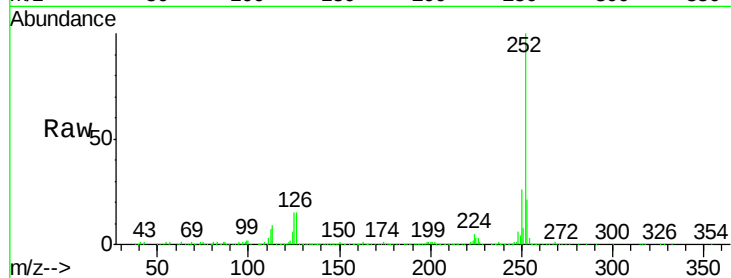




#88
Benzo(k)fluoranthene
Concen: 66.48 ng
RT: 19.72 min Scan# 3066
Delta R.T. -0.03 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

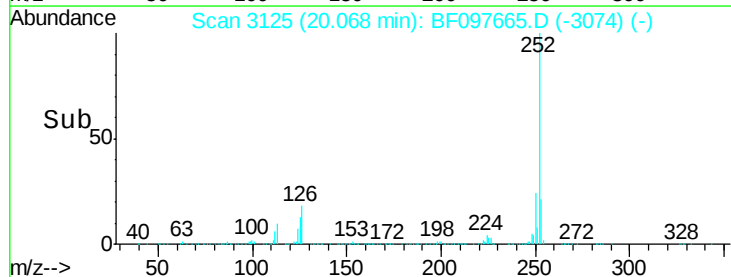
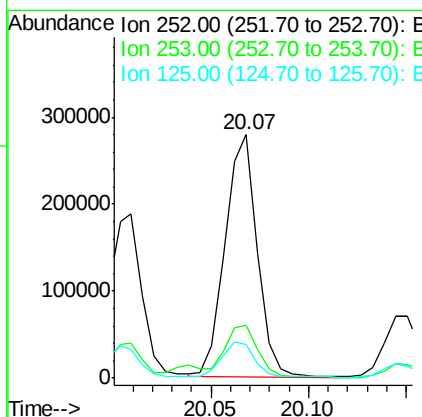
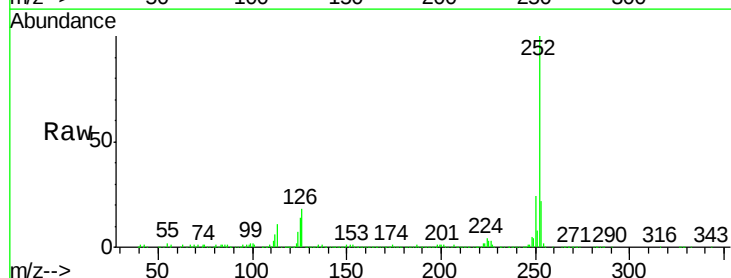
Instrument :
BNA_F
ClientSampled :
SB-37-COMP

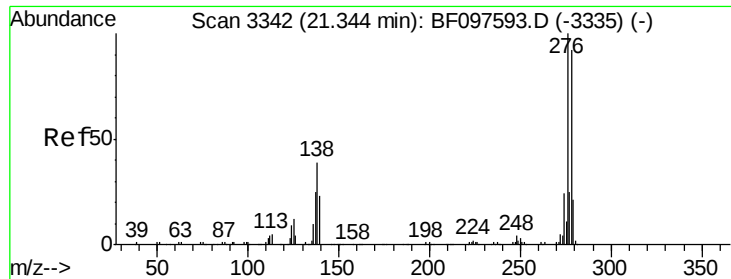
Tot Ion	Ratio	Lower	Upper
252	100		
253	20.8	18.4	27.6
125	14.7	13.1	19.7



#89
Benzo(a)pyrene
Concen: 36.80 ng
RT: 20.07 min Scan# 3125
Delta R.T. -0.00 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.5	26.3
125	13.6	11.0	16.4

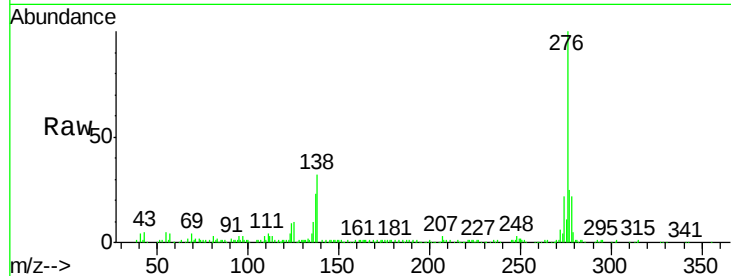




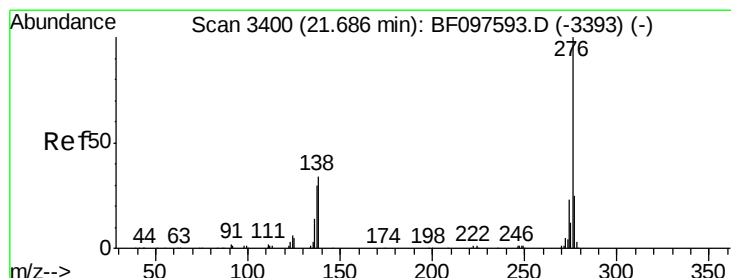
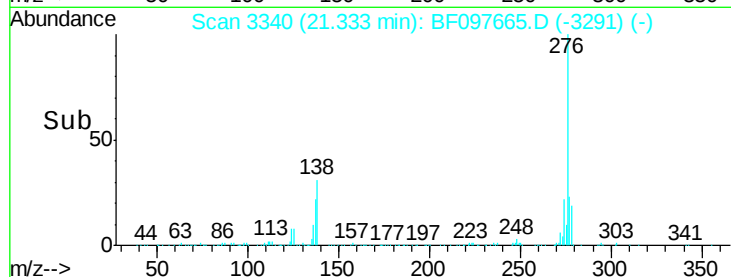
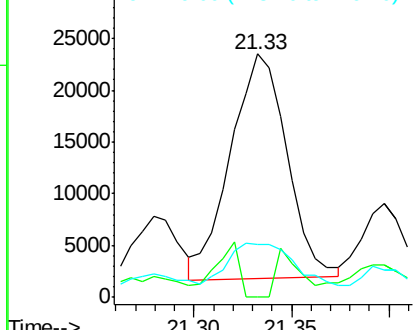
#90
Dibenzo(a,h)anthracene
Concen: 7.04 ng
RT: 21.33 min Scan# 3340
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion:278 Resp: 43568
Ion Ratio Lower Upper
278 100
139 0.0 16.6 24.8#
279 21.7 19.3 28.9

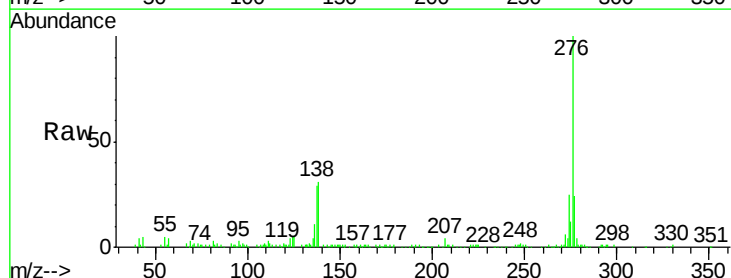


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 23.87 ng
RT: 21.69 min Scan# 3400
Delta R.T. 0.00 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion:276 Resp: 162157
Ion Ratio Lower Upper
276 100
277 24.3 18.6 28.0
138 30.9 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

