

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080917\
 Data File : BF097524.D
 Acq On : 9 Aug 2017 19:15
 Operator : SJ/JU
 Sample : I4681-02
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-17-COMP

Quant Time: Aug 10 01:04:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 07 16:02:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.40	152	115610	20.00	ng	-0.01
21) Naphthalene-d8	7.68	136	485723	20.00	ng	-0.02
38) Acenaphthene-d10	9.42	164	201435	20.00	ng	-0.02
63) Phenanthrene-d10	10.90	188	351299	20.00	ng	-0.02
75) Chrysene-d12	13.52	240	215448	20.00	ng	-0.02
86) Perylene-d12	14.86	264	187949	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.99	112	697139	90.90	ng	-0.02
7) Phenol-d6	6.07	99	842102	96.18	ng	-0.02
23) Nitrobenzene-d5	6.97	82	450861	54.45	ng	-0.02
41) 2,4,6-Tribromophenol	10.22	330	157677	99.07	ng	-0.02
44) 2-Fluorobiphenyl	8.76	172	741959	62.51	ng	-0.02
78) Terphenyl-d14	12.48	244	481445	45.56	ng	-0.02

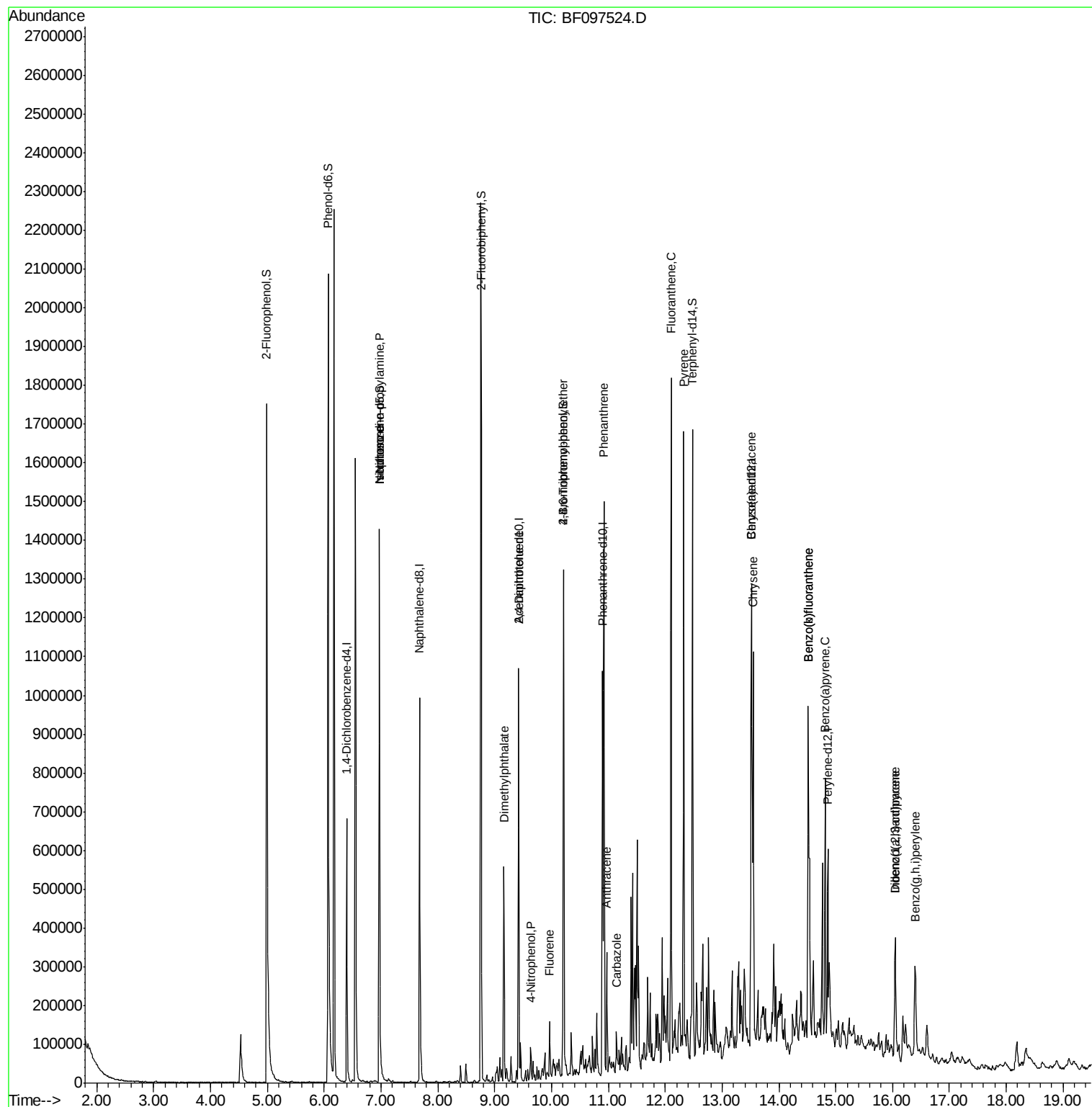
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	6.97	70	59543	10.33	ng	# 85
25) Isophorone	6.97	82	450856	27.81	ng	# 67
49) Dimethylphthalate	9.16	163	220533	14.42	ng	98
55) 4-Nitrophenol	9.63	139	7876	3.29	ng	# 29
56) 2,4-Dinitrotoluene	9.42	165	26565	7.12	ng	# 34
57) Fluorene	9.97	166	38771	3.38	ng	93
66) 4-Bromophenyl-phenylether	10.22	248	9906	2.83	ng	# 1
70) Phenanthrene	10.92	178	547648	29.10	ng	99
71) Anthracene	10.97	178	113111	5.87	ng	98
72) Carbazole	11.15	167	40893	2.16	ng	99
74) Fluoranthene	12.10	202	704040	38.18	ng	98
77) Pvrene	12.33	202	675836	38.32	ng	99
80) Benzo(a)anthracene	13.52	228	376188	26.99	ng	99
82) Chrysene	13.55	228	362173	26.61	ng	98
85) Indeno(1,2,3-cd)pyrene	16.04	276	161064	13.80	ng	94
87) Benzo(b)fluoranthene	14.52	252	531838	47.07	ng	# 96
88) Benzo(k)fluoranthene	14.52	252	531838	49.40	ng	98
89) Benzo(a)pyrene	14.82	252	285723	27.63	ng	99
90) Dibenzo(a,h)anthracene	16.04	278	41551	4.90	ng	# 76
91) Benzo(a,h,i)perylene	16.40	276	161382	18.15	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: 6.40 min Scan# 784

Delta R.T. -0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

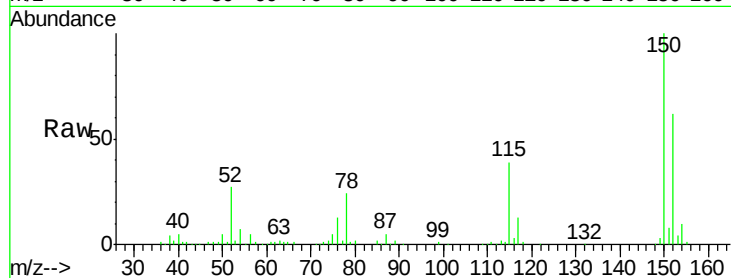
Tot Ion:152 Resp: 115610

Ion Ratio Lower Upper

152 100

150 161.1 126.2 189.2

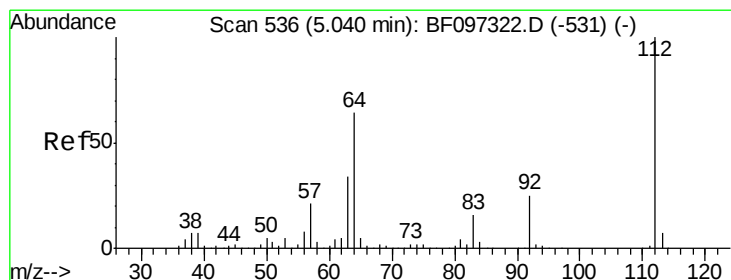
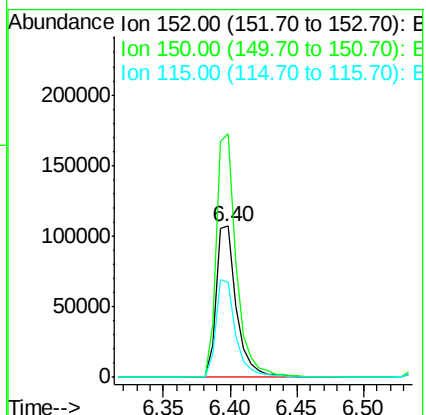
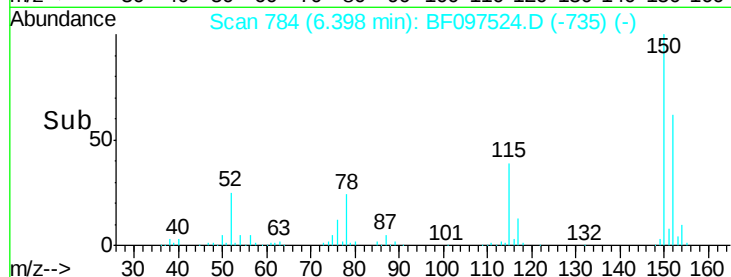
115 62.6 52.2 78.2



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: 90.90 ng

RT: 4.99 min Scan# 544

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

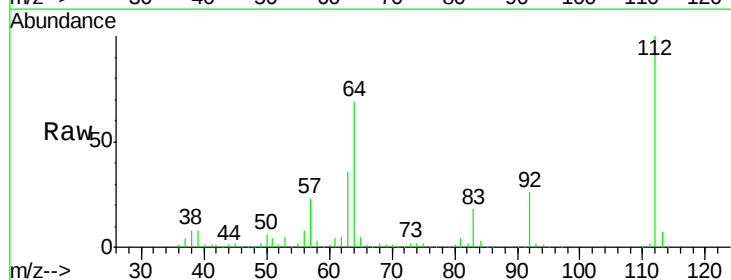
Tgt Ion:112 Resp: 697139

Ion Ratio Lower Upper

112 100

64 69.1 46.0 69.0#

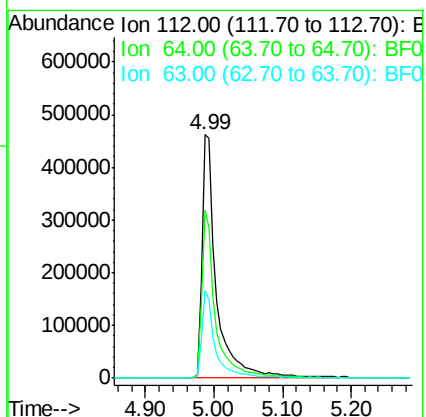
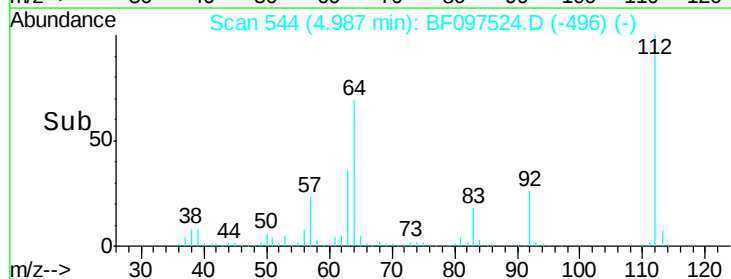
63 36.2 23.4 35.0#

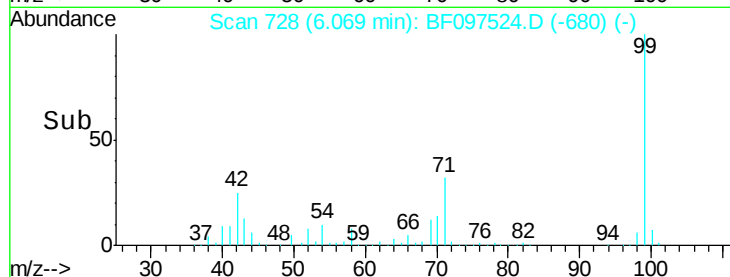
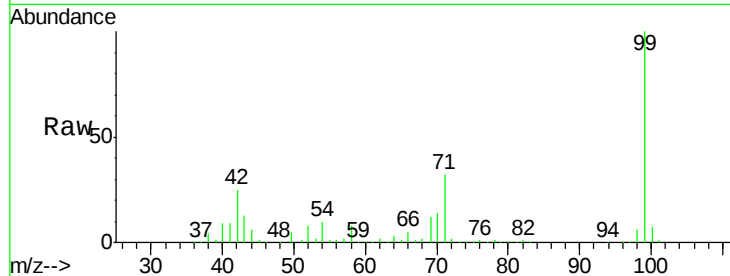


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 96.18 ng

RT: 6.07 min Scan# 728

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

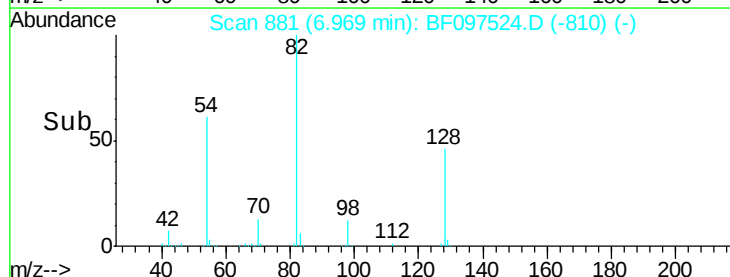
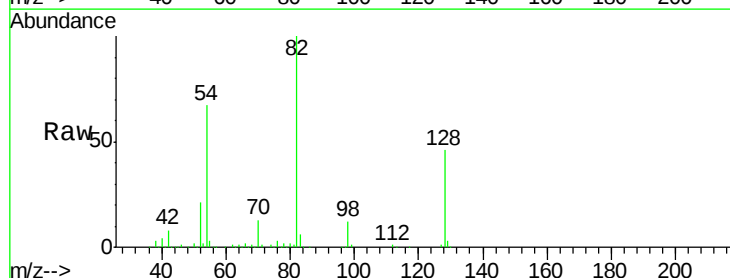
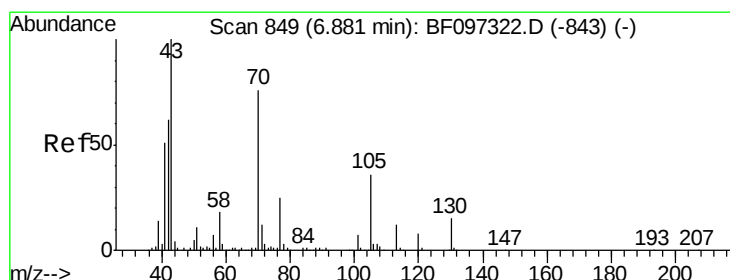
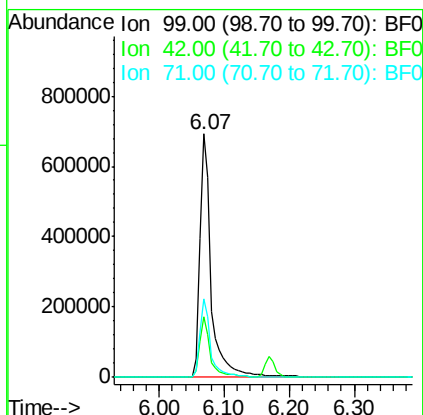
Tot Ion: 99 Resp: 842102

Ion Ratio Lower Upper

99 100

42 24.8 13.5 20.3#

71 32.5 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 10.33 ng

RT: 6.97 min Scan# 881

Delta R.T. 0.12 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Tgt Ion: 70 Resp: 59543

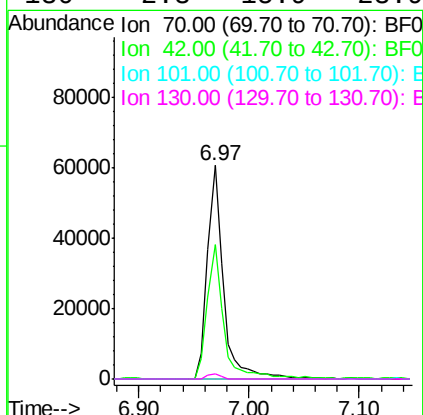
Ion Ratio Lower Upper

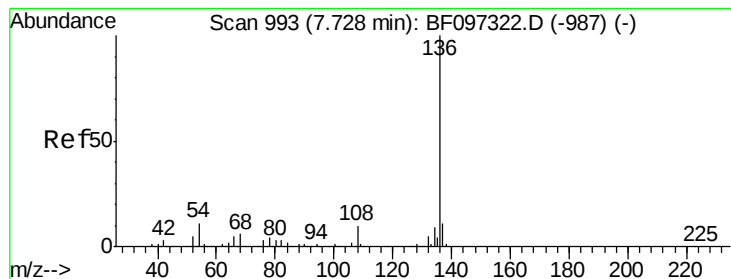
70 100

42 62.9 47.2 70.8

101 0.0 7.2 10.8#

130 2.3 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.68 min Scan# 1002

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

Tot Ion:136 Resp: 485723

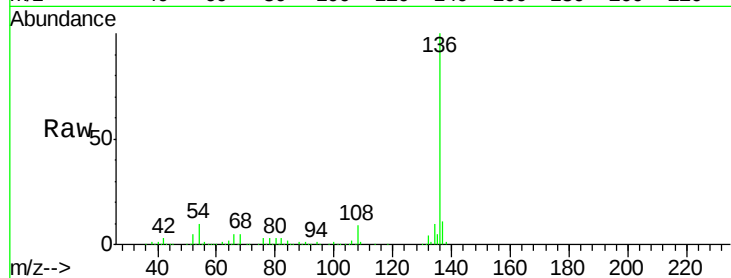
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 10.3 4.9 7.3#

68 5.3 4.1 6.1

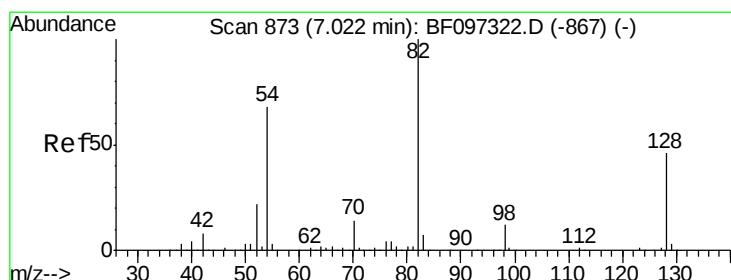
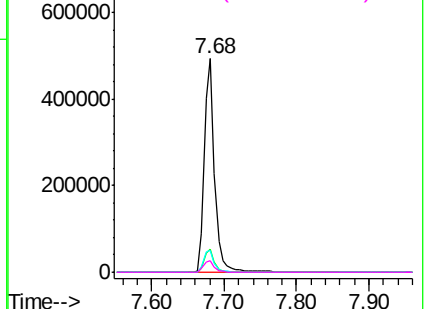
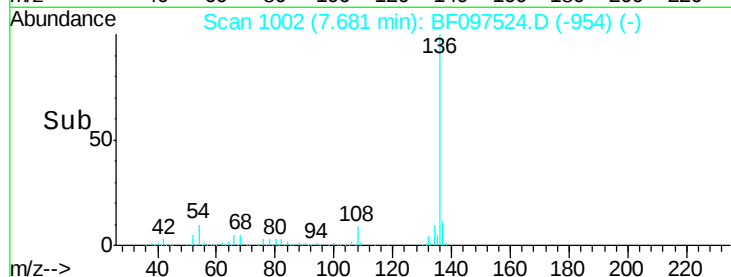


Abundance Ion 136.00 (135.70 to 136.70): E

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: 54.45 ng

RT: 6.97 min Scan# 881

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

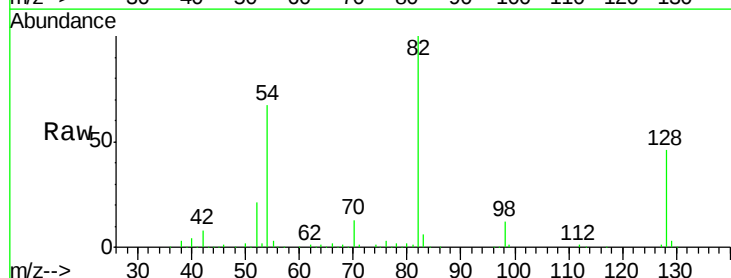
Tgt Ion: 82 Resp: 450861

Ion Ratio Lower Upper

82 100

128 45.7 34.0 51.0

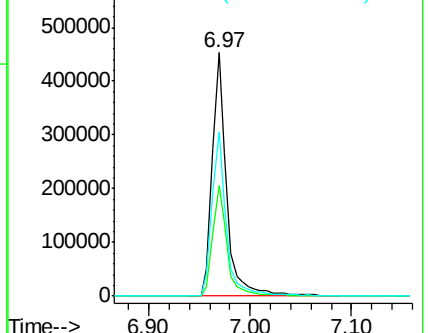
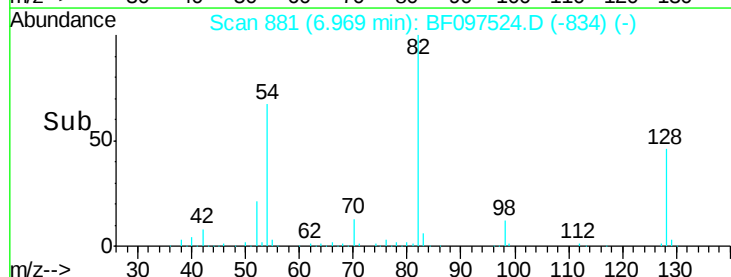
54 67.3 42.2 63.2#

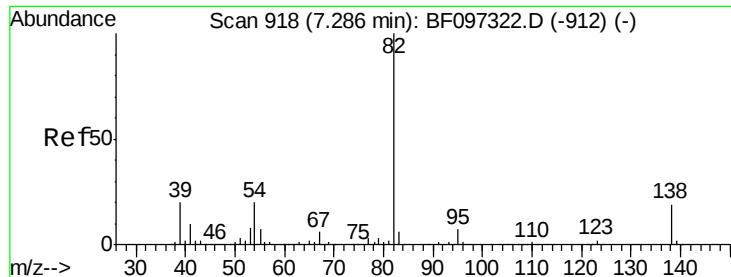


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 27.81 ng

RT: 6.97 min Scan# 881

Delta R.T. -0.28 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

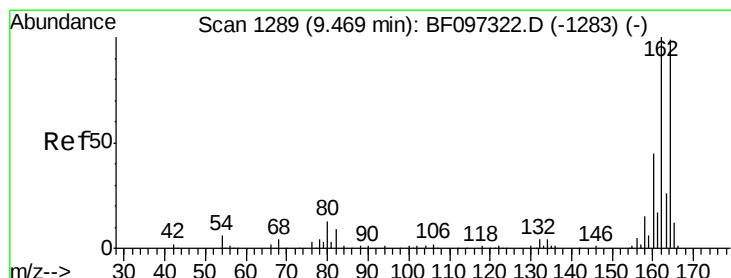
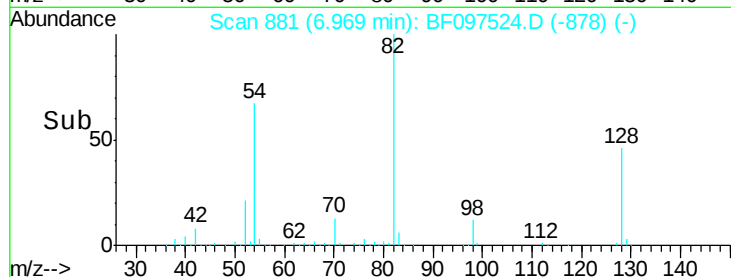
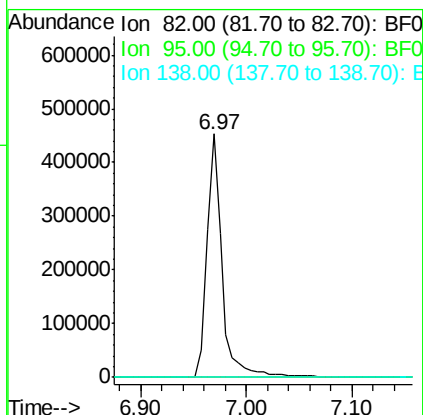
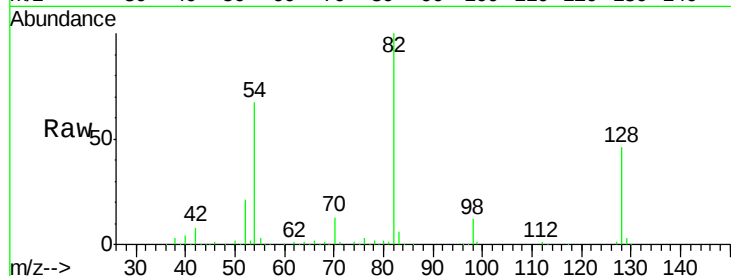
Tot Ion: 82 Resp: 450856

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.42 min Scan# 1298

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

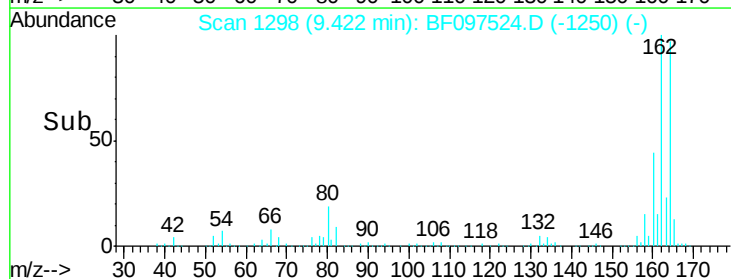
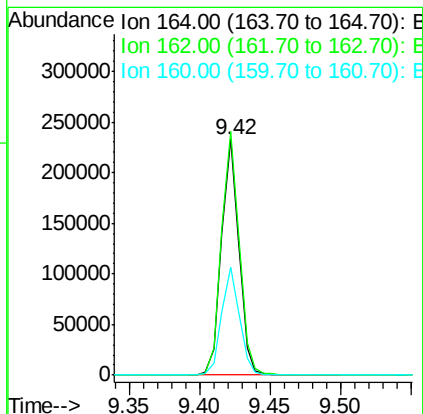
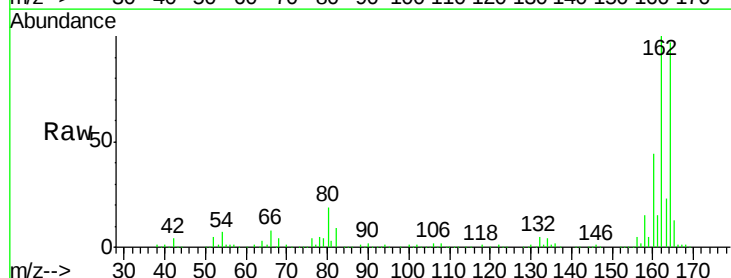
Tgt Ion:164 Resp: 201435

Ion Ratio Lower Upper

164 100

162 103.2 82.6 123.8

160 45.8 36.2 54.2

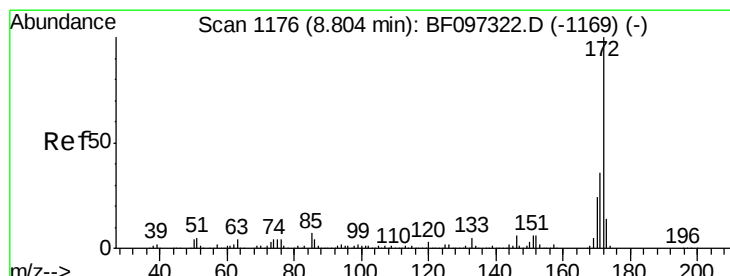
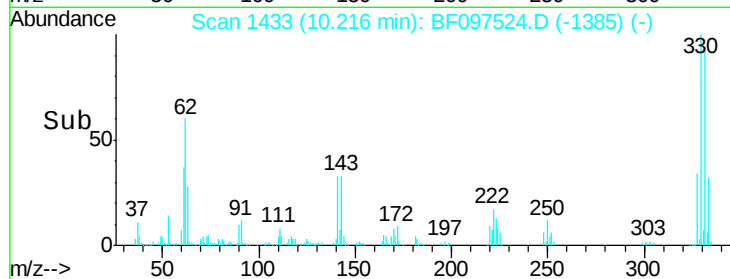
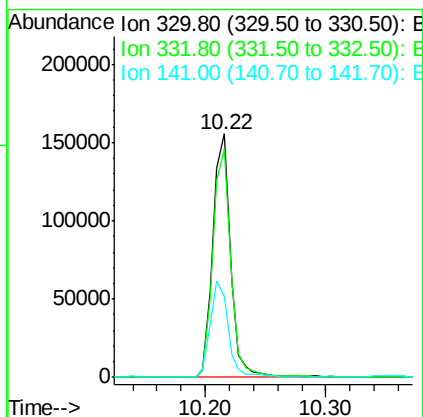
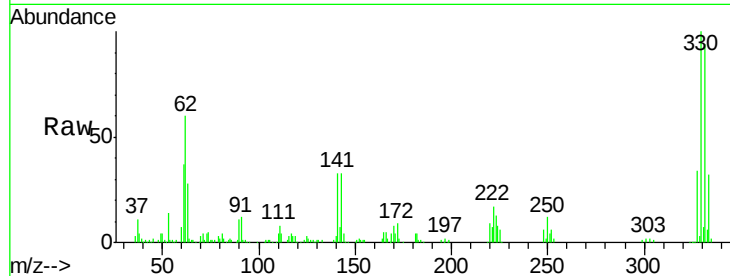




#41
 2,4,6-Tribromophenol
 Concen: 99.07 ng
 RT: 10.22 min Scan# 1433
 Delta R.T. -0.02 min
 Lab File: BF097524.D
 Acq: 9 Aug 2017 19:15

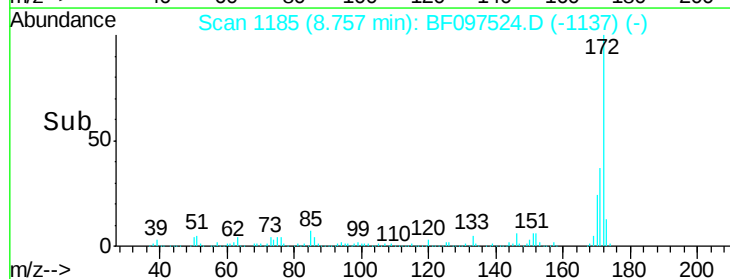
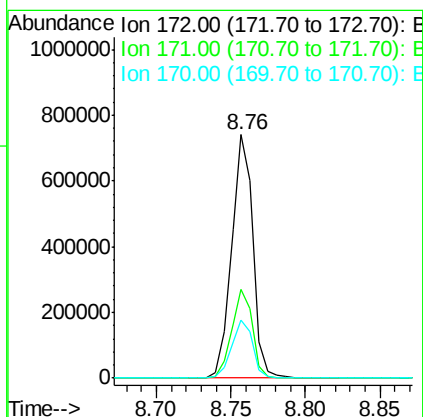
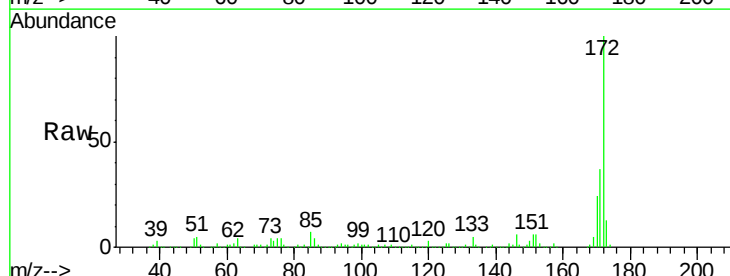
Instrument :
 BNA_F
 ClientSampleId :
 SB-17-COMP

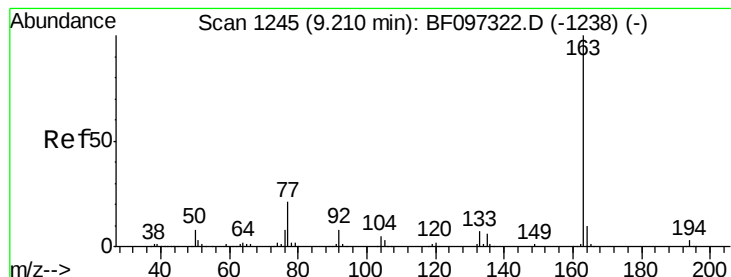
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.3	76.6	115.0
141	41.4	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 62.51 ng
 RT: 8.76 min Scan# 1185
 Delta R.T. -0.02 min
 Lab File: BF097524.D
 Acq: 9 Aug 2017 19:15

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.6	44.4
170	23.9	19.8	29.8





#49

Dimethylphthalate

Concen: 14.42 ng

RT: 9.16 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

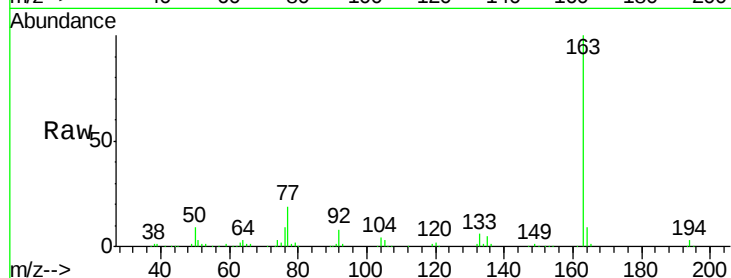
Tot Ion:163 Resp: 220533

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

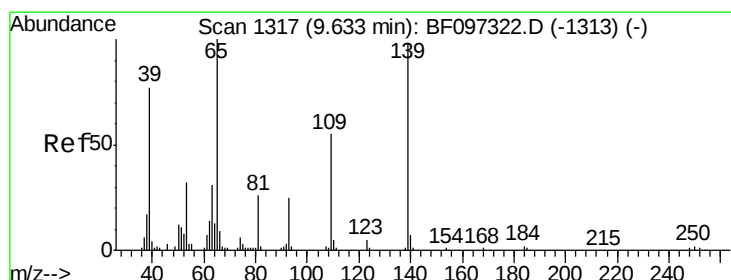
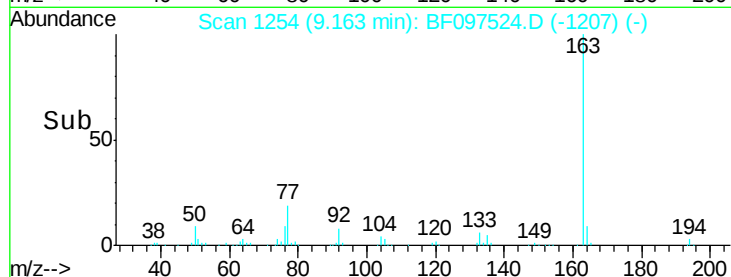
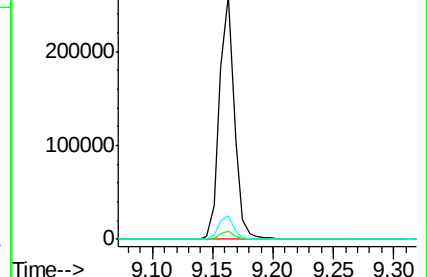
164 9.5 8.4 12.6



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: 3.29 ng

RT: 9.63 min Scan# 1334

Delta R.T. 0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

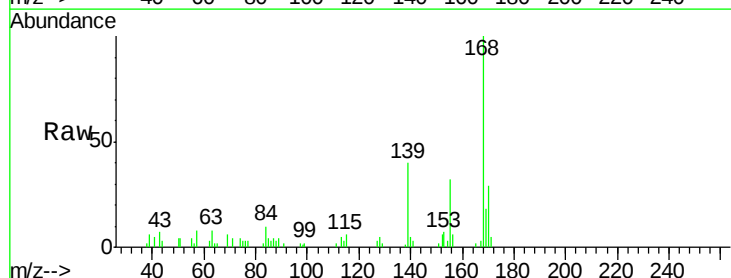
Tgt Ion:139 Resp: 7876

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

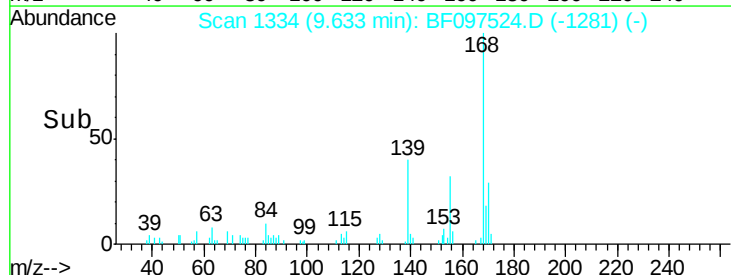
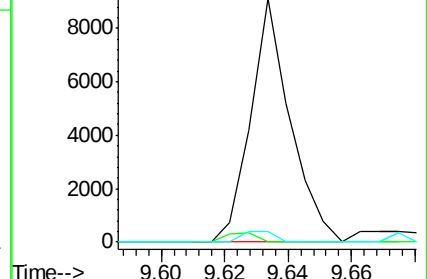
65 4.4 31.4 71.4#



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

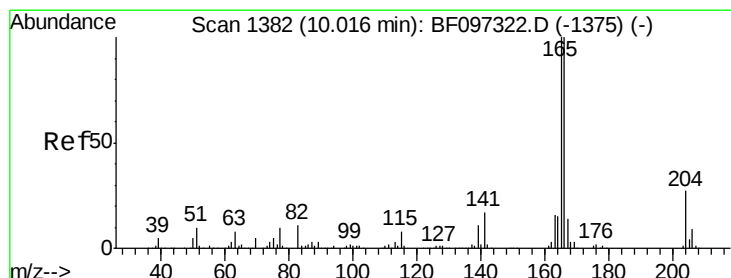
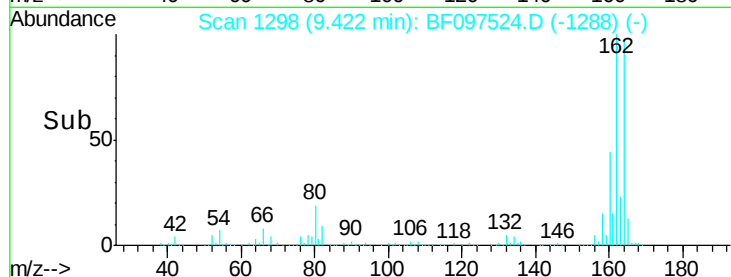
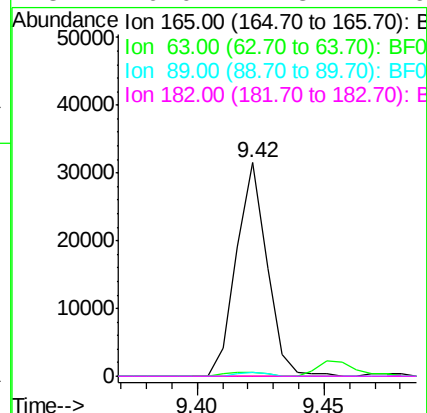
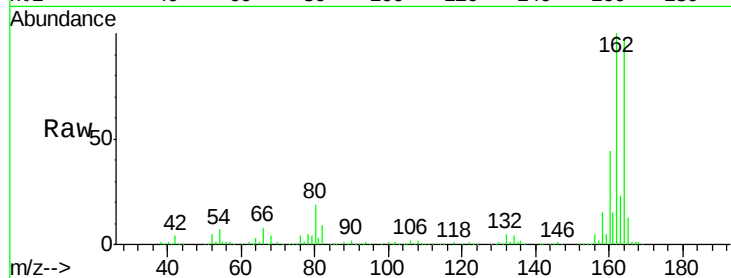




#56
 2,4-Dinitrotoluene
 Concen: 7.12 ng
 RT: 9.42 min Scan# 1298
 Delta R.T. -0.24 min
 Lab File: BF097524.D
 Acq: 9 Aug 2017 19:15

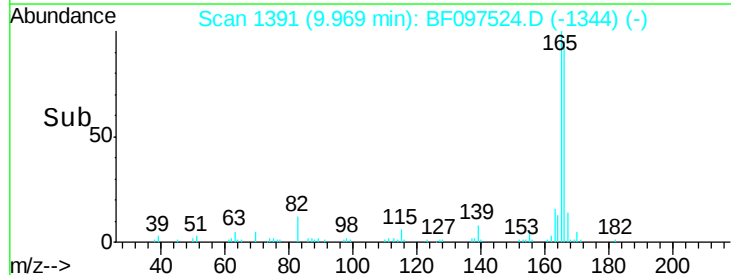
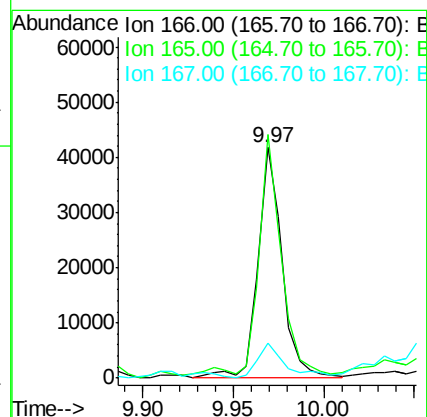
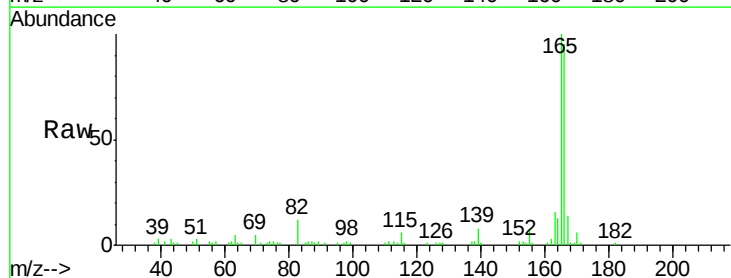
Instrument :
 BNA_F
 ClientSampleId :
 SB-17-COMP

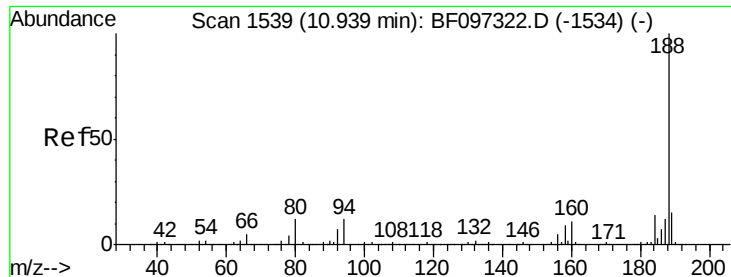
Tot Ion:	165	Resp:	26565
Ion	Ratio	Lower	Upper
165	100		
63	2.0	25.4	38.0#
89	1.7	46.4	69.6#
182	0.0	1.8	2.6#



#57
 Fluorene
 Concen: 3.38 ng
 RT: 9.97 min Scan# 1391
 Delta R.T. -0.02 min
 Lab File: BF097524.D
 Acq: 9 Aug 2017 19:15

Tgt Ion:	166	Resp:	38771
Ion	Ratio	Lower	Upper
166	100		
165	105.7	78.8	118.2
167	15.3	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 10.90 min Scan# 1549

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

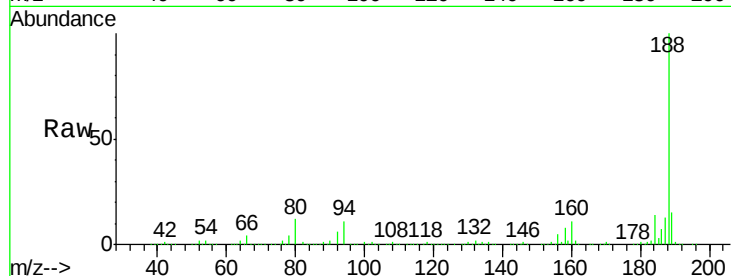
Tot Ion:188 Resp: 351299

Ion Ratio Lower Upper

188 100

94 10.9 9.4 14.2

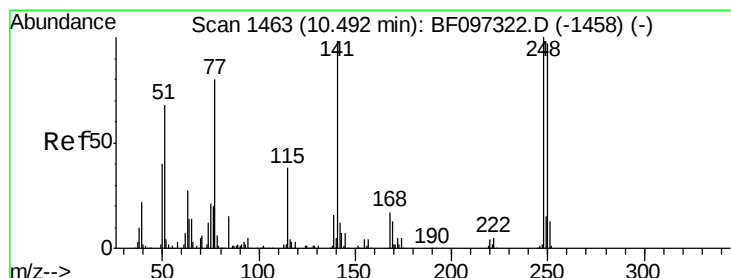
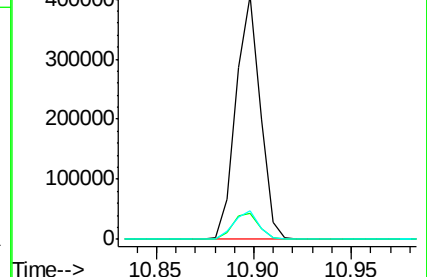
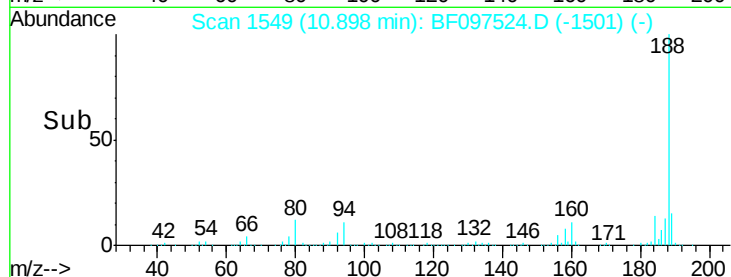
80 11.8 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#66

4-Bromophenyl-phenylether

Concen: 2.83 ng

RT: 10.22 min Scan# 1433

Delta R.T. -0.25 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

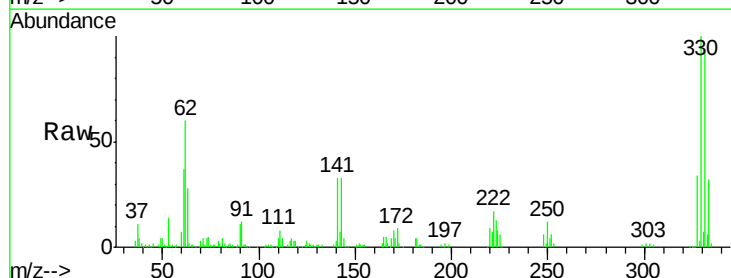
Tgt Ion:248 Resp: 9906

Ion Ratio Lower Upper

248 100

250 193.5 76.8 115.2#

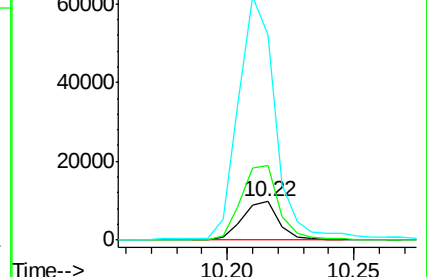
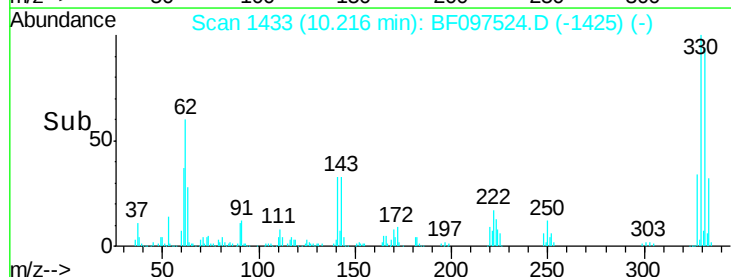
141 536.1 68.6 103.0#

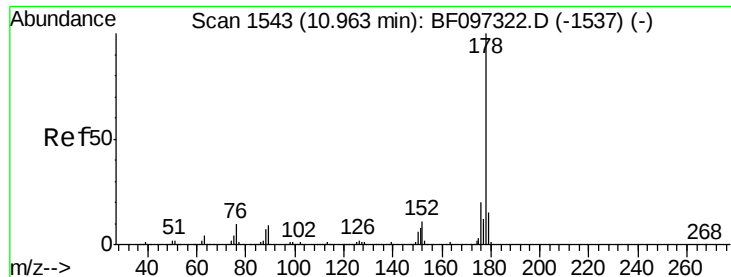


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

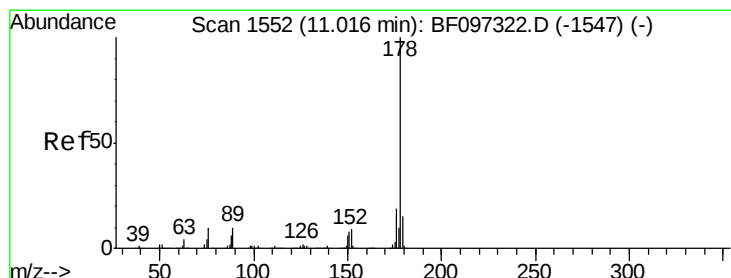
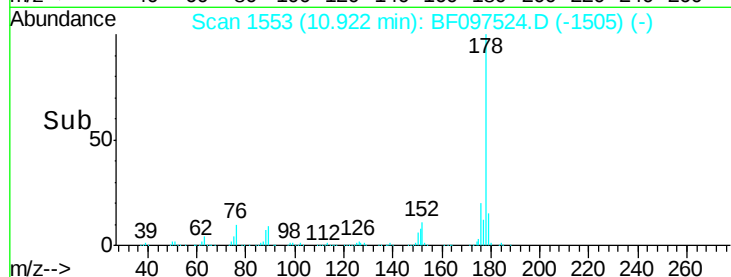
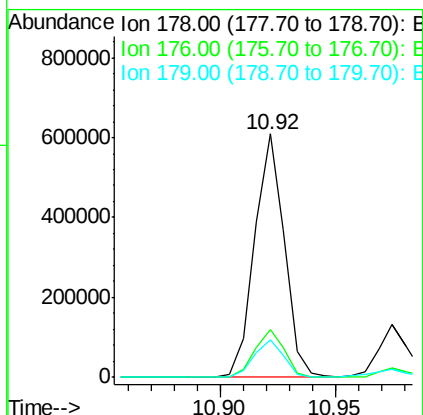
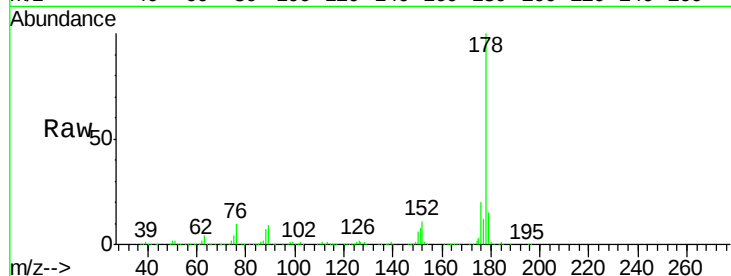




#70
Phenanthrene
Concen: 29.10 ng
RT: 10.92 min Scan# 1553
Delta R.T. -0.02 min
Lab File: BF097524.D
Acq: 9 Aug 2017 19:15

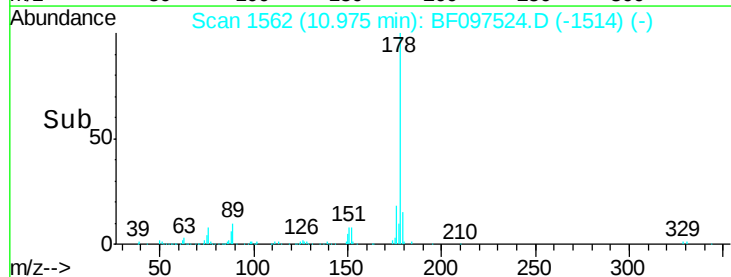
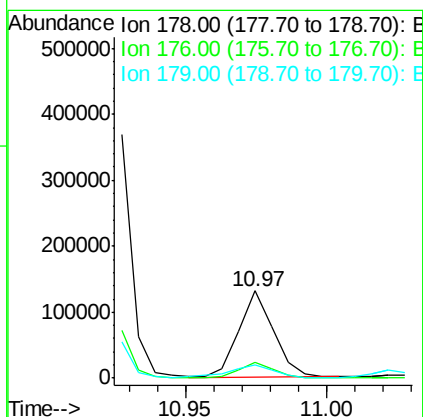
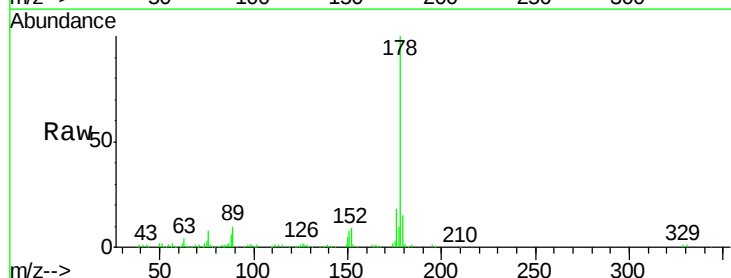
Instrument :
BNA_F
ClientSampleId :
SB-17-COMP

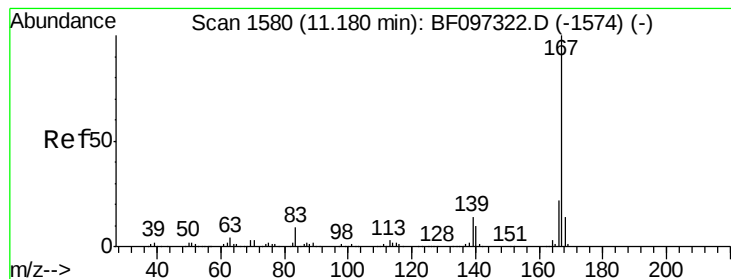
Tot Ion:178 Resp: 547648
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.5 12.6 19.0



#71
Anthracene
Concen: 5.87 ng
RT: 10.97 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF097524.D
Acq: 9 Aug 2017 19:15

Tgt Ion:178 Resp: 113111
Ion Ratio Lower Upper
178 100
176 18.2 15.8 23.8
179 15.4 12.7 19.1





#72

Carbazole

Concen: 2.16 ng

RT: 11.15 min Scan# 1591

Delta R.T. -0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampled :

SB-17-COMP

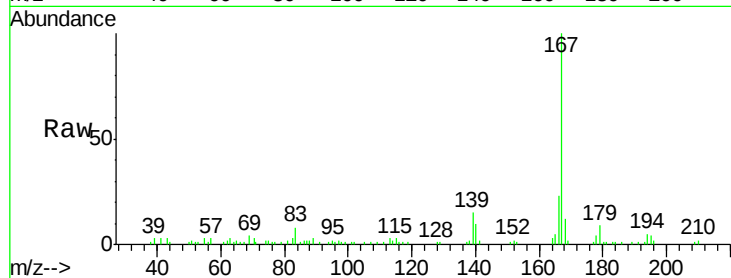
Tot Ion:167 Resp: 40893

Ion Ratio Lower Upper

167 100

166 23.0 18.1 27.1

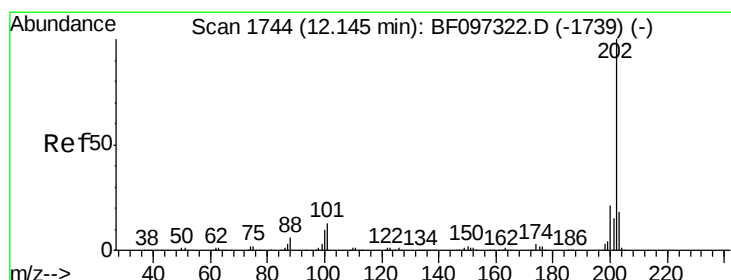
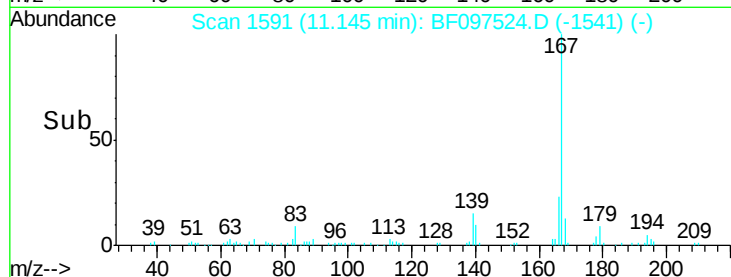
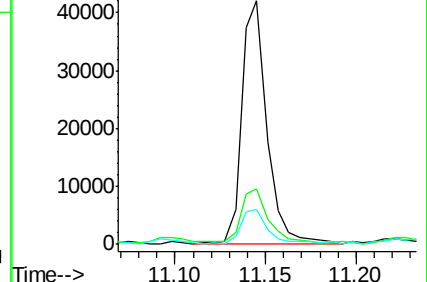
139 14.5 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 38.18 ng

RT: 12.10 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

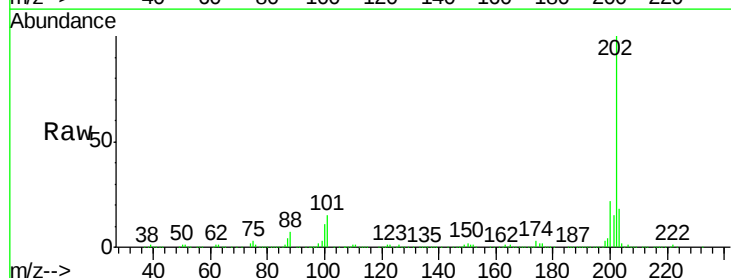
Tgt Ion:202 Resp: 704040

Ion Ratio Lower Upper

202 100

101 14.5 0.0 33.2

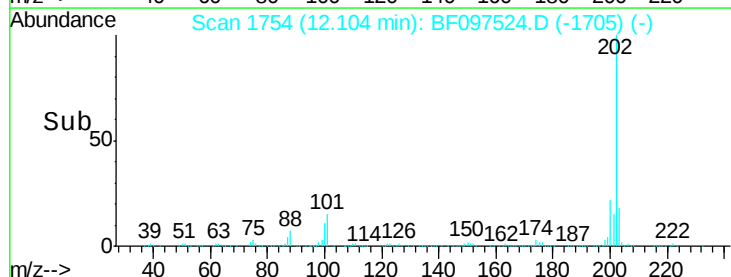
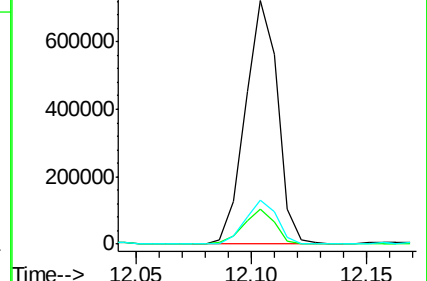
203 17.8 0.0 38.1

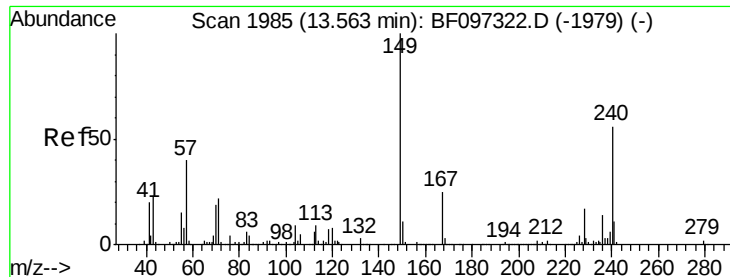


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.52 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

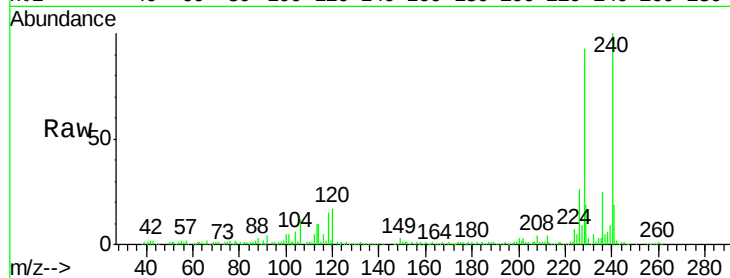
Tot Ion:240 Resp: 215448

Ion Ratio Lower Upper

240 100

120 17.4 5.8 8.8#

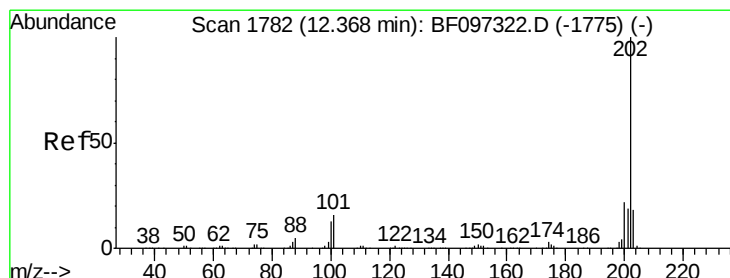
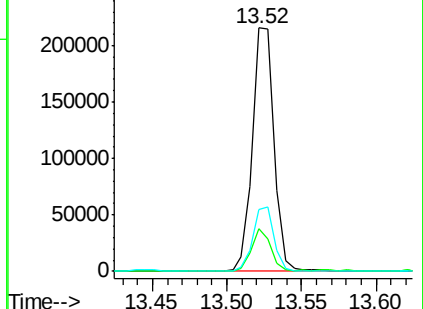
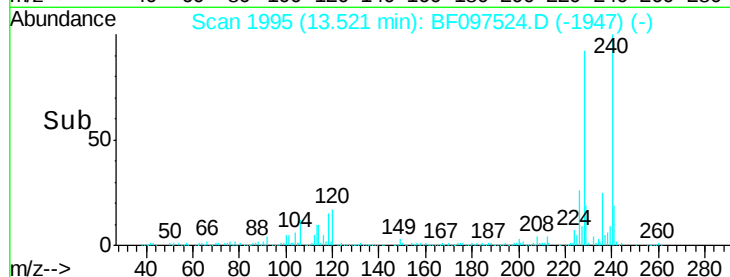
236 25.3 20.5 30.7



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

Pyrene

Concen: 38.32 ng

RT: 12.33 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

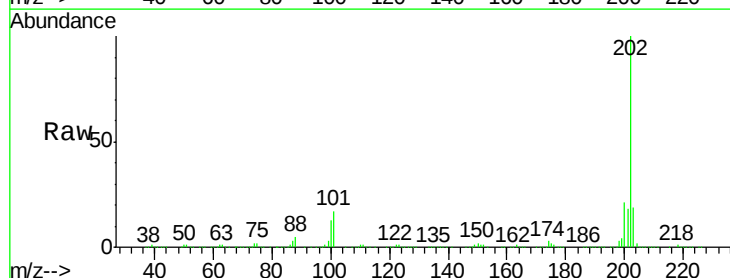
Tgt Ion:202 Resp: 675836

Ion Ratio Lower Upper

202 100

200 21.5 17.6 26.4

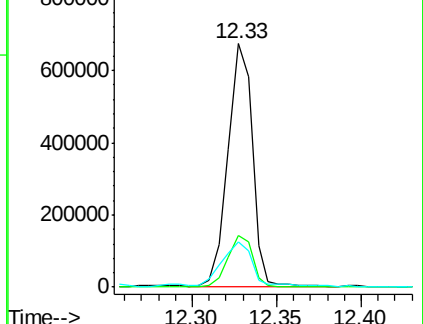
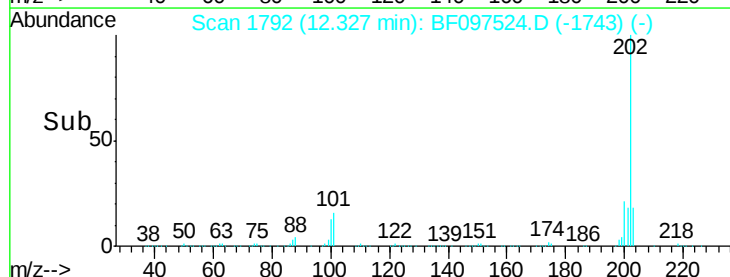
203 18.5 14.4 21.6

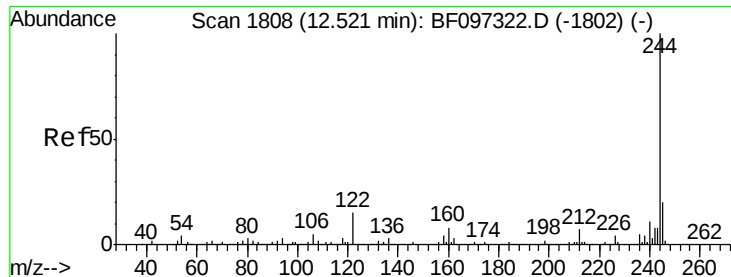


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

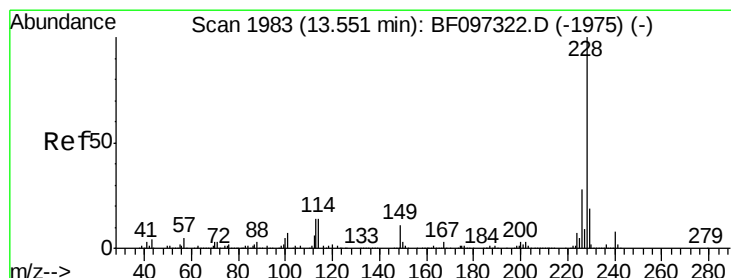
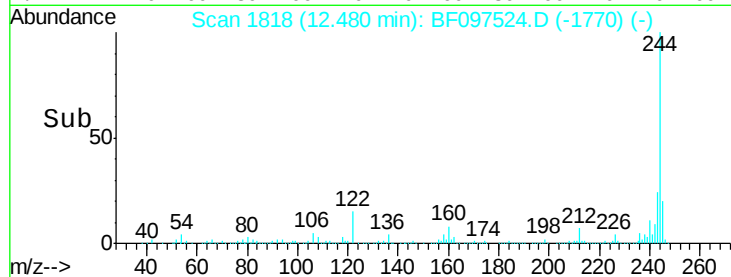
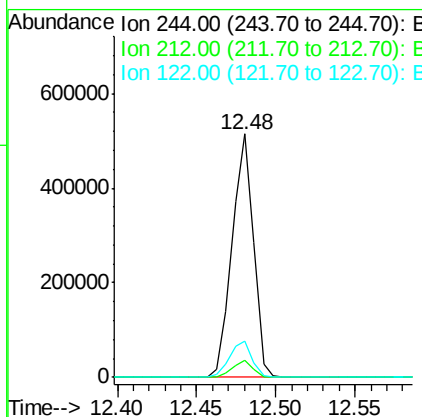
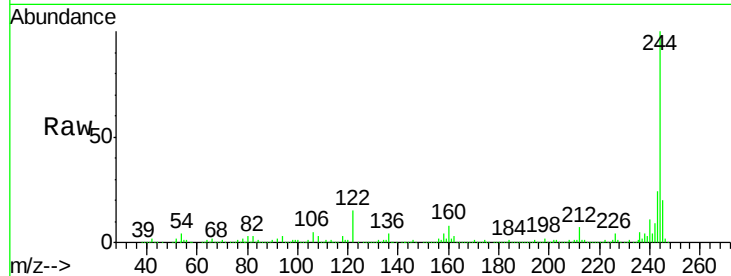




#78
 Terphenyl-d14
 Concen: 45.56 ng
 RT: 12.48 min Scan# 1818
 Delta R.T. -0.02 min
 Lab File: BF097524.D
 Acq: 9 Aug 2017 19:15

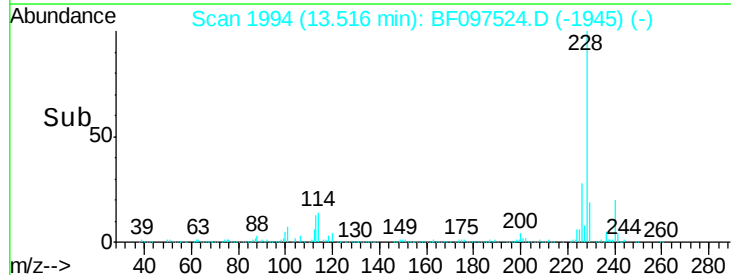
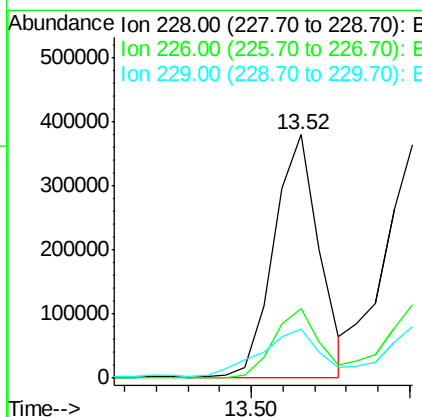
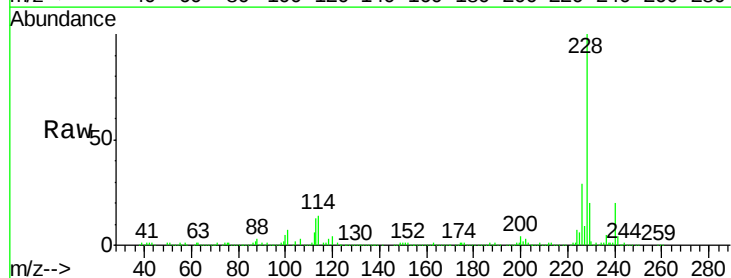
Instrument :
 BNA_F
 ClientSampleId :
 SB-17-COMP

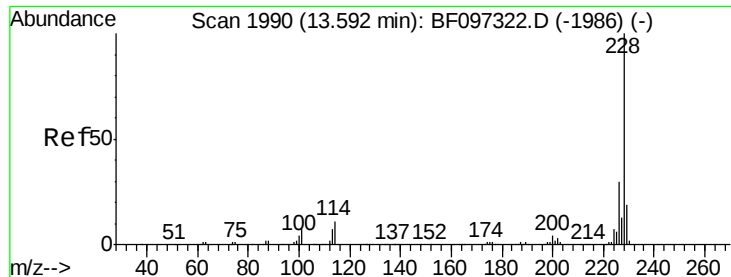
Tot Ion:244 Resp: 481445
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 14.8 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 26.99 ng
 RT: 13.52 min Scan# 1994
 Delta R.T. -0.01 min
 Lab File: BF097524.D
 Acq: 9 Aug 2017 19:15

Tgt Ion:228 Resp: 376188
 Ion Ratio Lower Upper
 228 100
 226 28.5 22.6 33.8
 229 20.3 16.3 24.5





#82

Chrysene

Concen: 26.61 ng

RT: 13.55 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

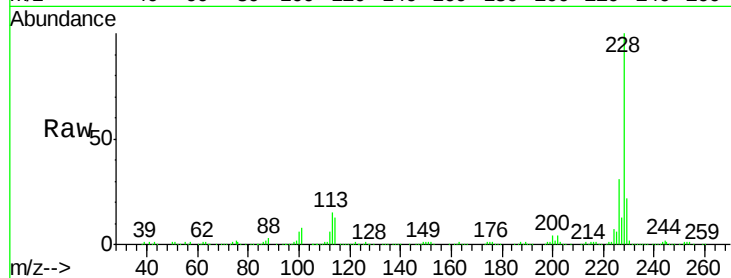
Tot Ion:228 Resp: 362173

Ion Ratio Lower Upper

228 100

226 31.2 24.9 37.3

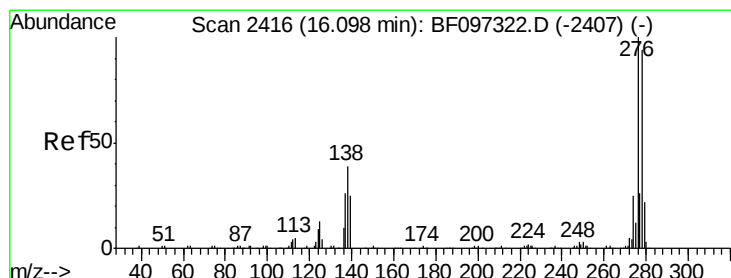
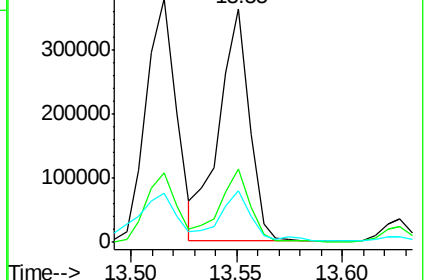
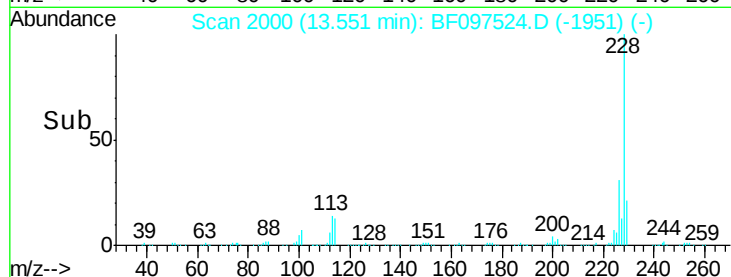
229 22.1 15.8 23.6



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: 13.80 ng

RT: 16.04 min Scan# 2424

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

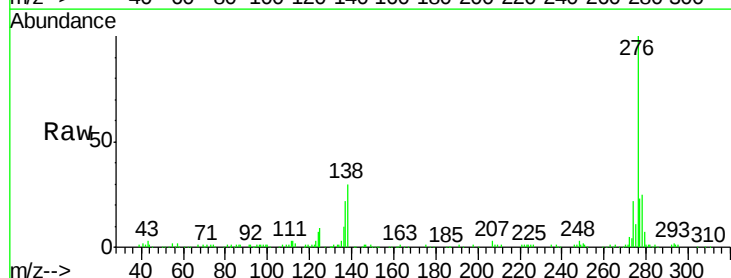
Tgt Ion:276 Resp: 161064

Ion Ratio Lower Upper

276 100

138 30.9 27.8 41.6

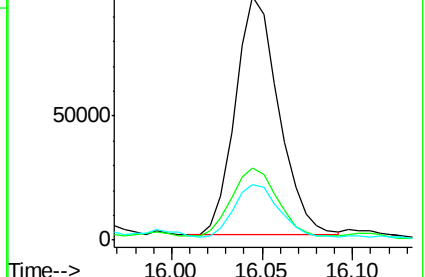
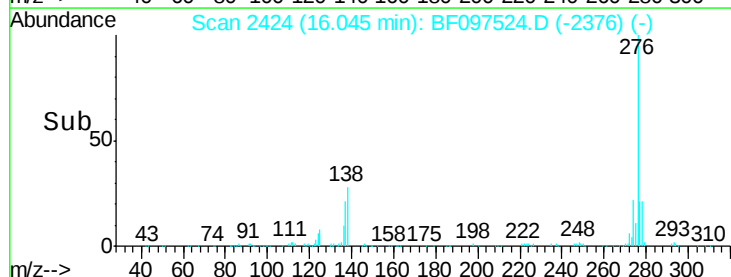
277 22.6 20.2 30.4

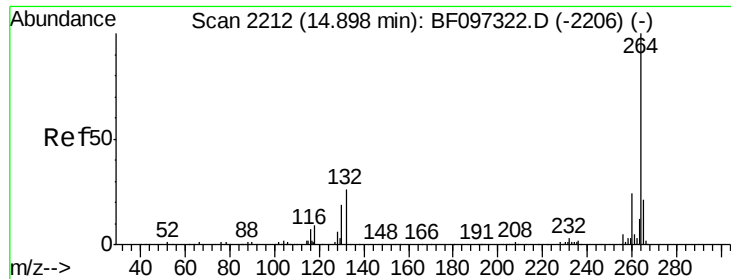


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

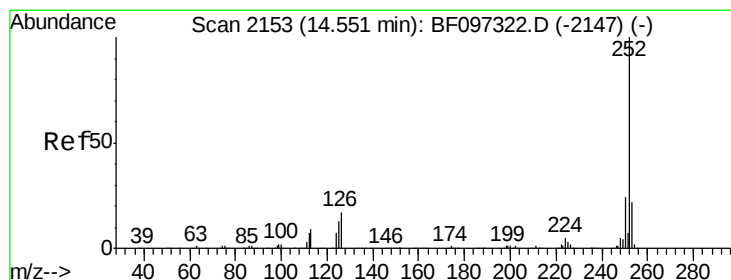
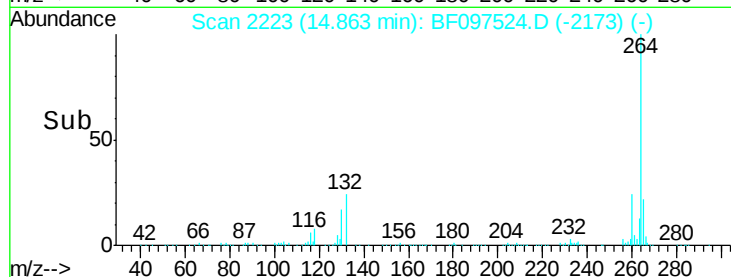
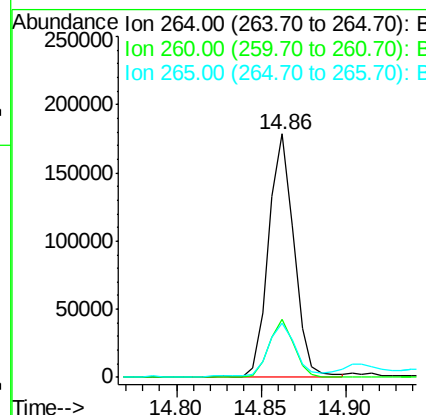
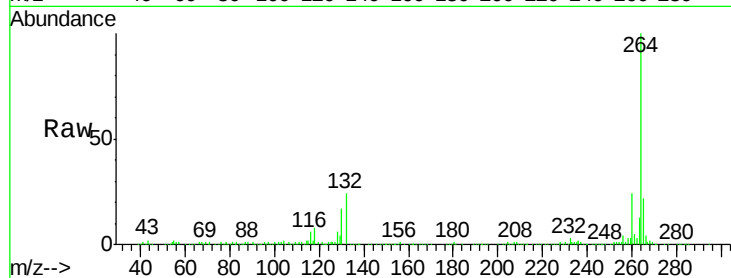




#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.86 min Scan# 2223
Delta R.T. -0.01 min
Lab File: BF097524.D
Acq: 9 Aug 2017 19:15

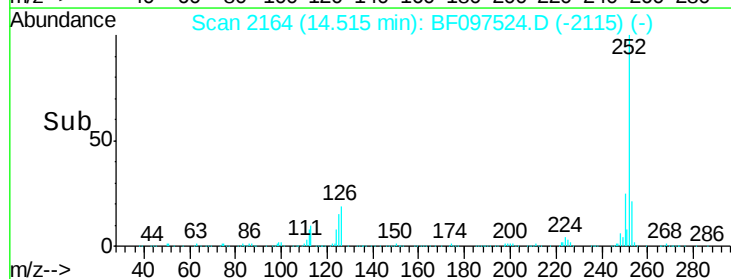
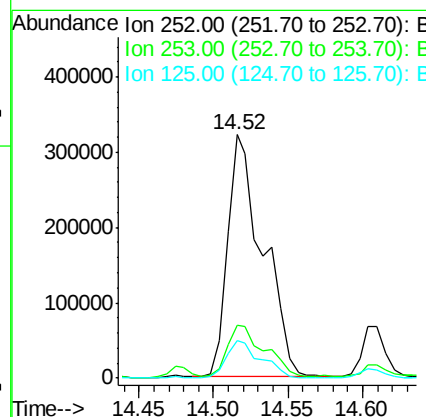
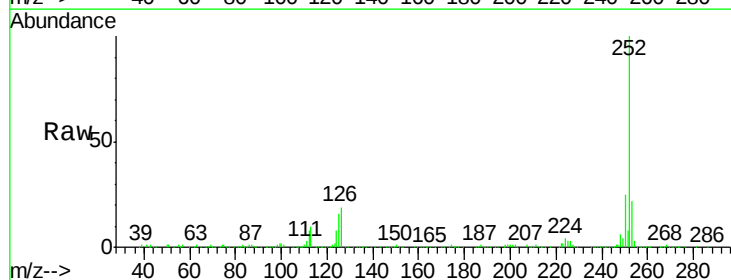
Instrument :
BNA_F
ClientSampleId :
SB-17-COMP

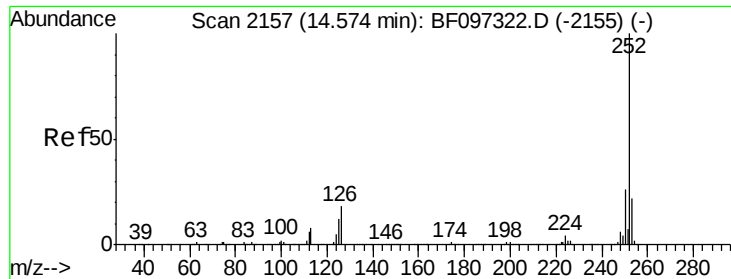
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.5	29.3
265	22.2	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 47.07 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF097524.D
Acq: 9 Aug 2017 19:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.1	27.1
125	15.5	9.8	14.8#

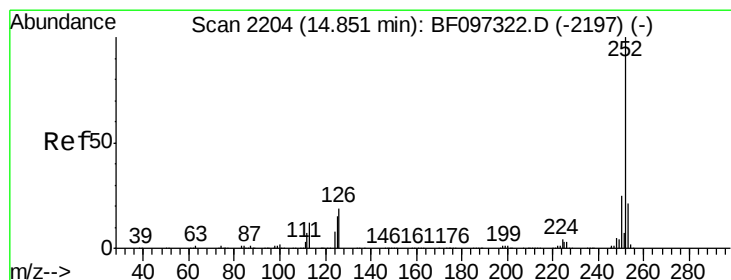
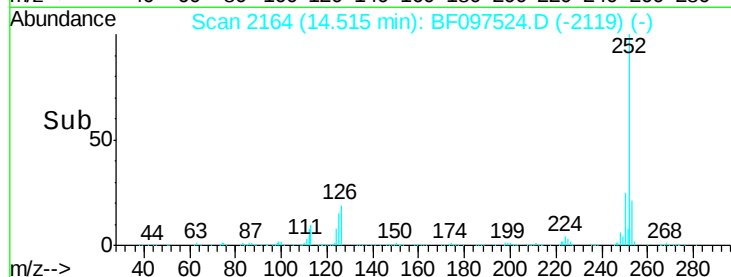
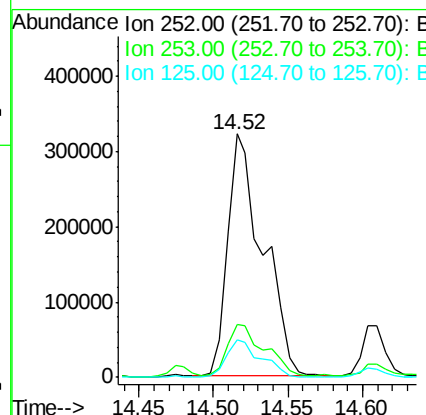
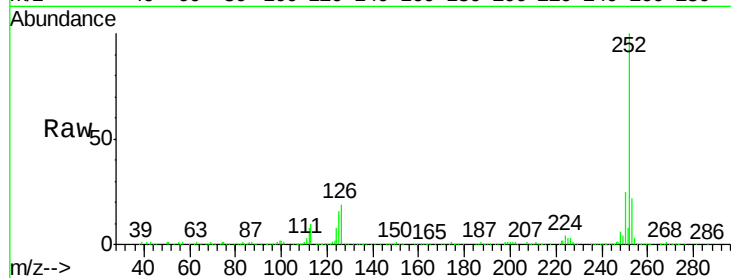




#88
Benzo(k)fluoranthene
Concen: 49.40 ng
RT: 14.52 min Scan# 2164
Delta R.T. -0.04 min
Lab File: BF097524.D
Acq: 9 Aug 2017 19:15

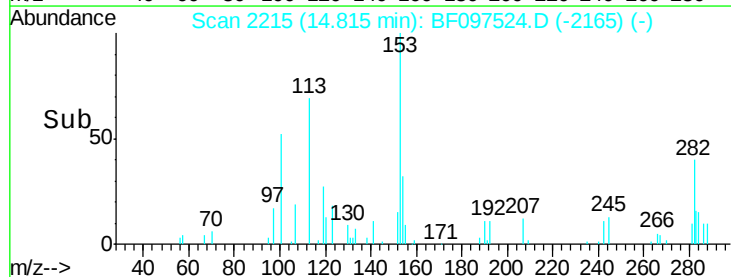
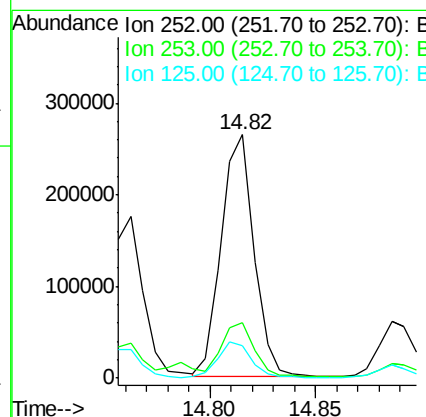
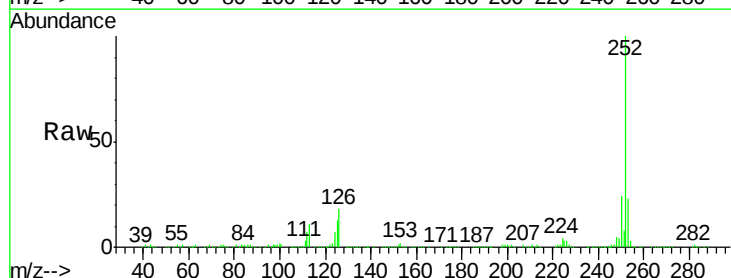
Instrument :
BNA_F
ClientSampleId :
SB-17-COMP

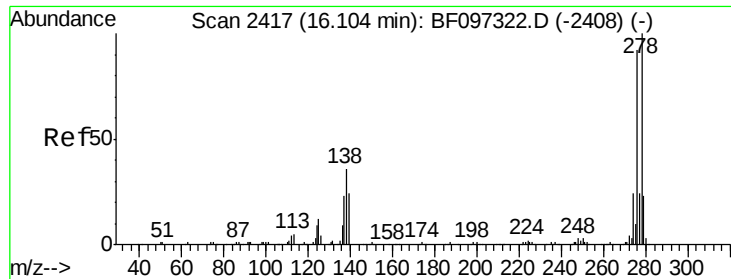
Tot Ion	Ratio	Lower	Upper
252	100		
253	21.8	18.4	27.6
125	15.5	13.1	19.7



#89
Benzo(a)pyrene
Concen: 27.63 ng
RT: 14.82 min Scan# 2215
Delta R.T. -0.01 min
Lab File: BF097524.D
Acq: 9 Aug 2017 19:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.5	26.3
125	13.2	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 4.90 ng

RT: 16.04 min Scan# 2424

Delta R.T. -0.02 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

Instrument :

BNA_F

ClientSampleId :

SB-17-COMP

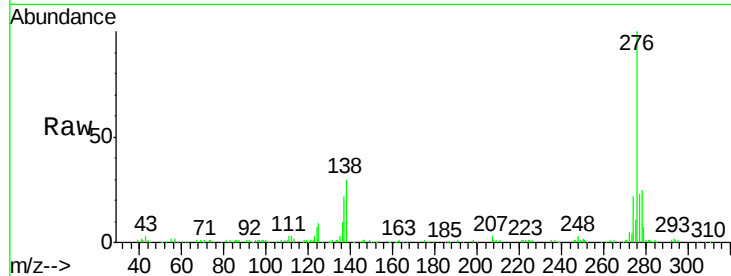
Tot Ion:278 Resp: 41551

Ion Ratio Lower Upper

278 100

139 0.0 16.6 24.8#

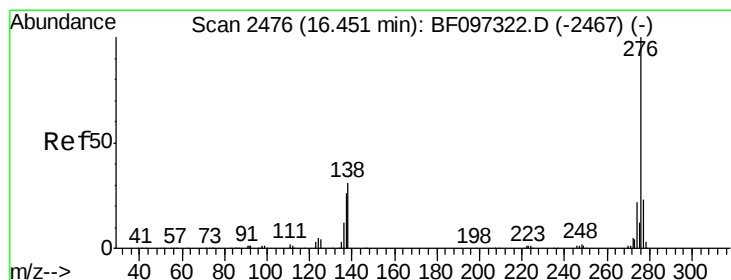
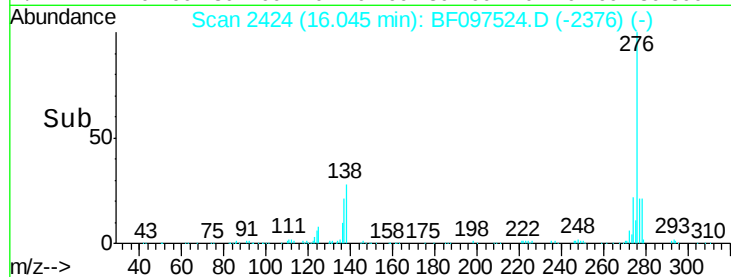
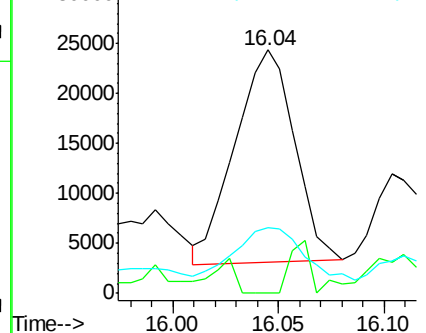
279 27.0 19.3 28.9



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: 18.15 ng

RT: 16.40 min Scan# 2484

Delta R.T. -0.01 min

Lab File: BF097524.D

Acq: 9 Aug 2017 19:15

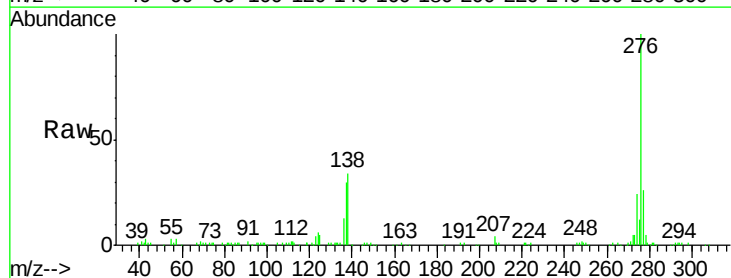
Tgt Ion:276 Resp: 161382

Ion Ratio Lower Upper

276 100

277 25.7 18.6 28.0

138 34.0 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

