

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
 Data File : BF097181.D
 Acq On : 29 Jul 2017 3:57
 Operator : SJ/JU
 Sample : I4398-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEDIMENT-1

Quant Time: Jul 29 04:51:05 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

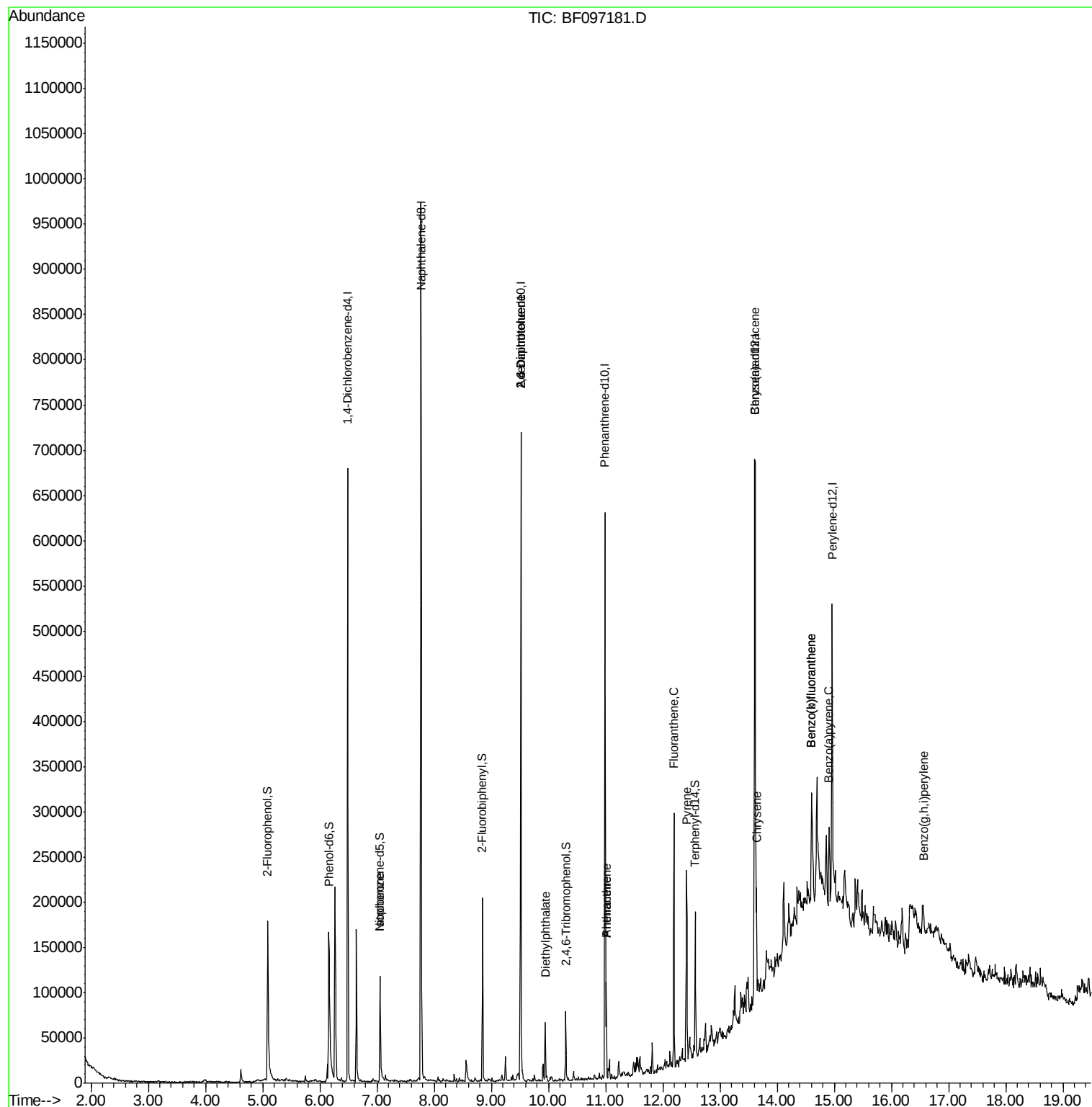
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	99157	20.00	ng	-0.01
21) Naphthalene-d8	7.77	136	403625	20.00	ng	-0.02
38) Acenaphthene-d10	9.52	164	140533	20.00	ng	-0.02
63) Phenanthrene-d10	10.99	188	207319	20.00	ng	-0.02
75) Chrysene-d12	13.62	240	196237	20.00	ng	-0.01
86) Perylene-d12	14.96	264	132346	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.09	112	69850	10.62	ng	-0.01
7) Phenol-d6	6.16	99	83954	11.18	ng	-0.01
23) Nitrobenzene-d5	7.05	82	39498	5.74	ng	-0.02
41) 2,4,6-Tribromophenol	10.30	330	8474	7.63	ng	-0.02
44) 2-Fluorobiphenyl	8.85	172	57726	6.97	ng	-0.02
78) Terphenyl-d14	12.57	244	39654	4.12	ng	-0.02
Target Compounds						
25) Isophorone	7.05	82	39498	2.93	ng	# 67
50) 2,6-Dinitrotoluene	9.52	165	18234	8.06	ng	# 31
56) 2,4-Dinitrotoluene	9.52	165	18234	7.01	ng	# 31
59) Diethylphthalate	9.95	149	23910	2.44	ng	99
70) Phenanthrene	11.01	178	36193	3.26	ng	98
71) Anthracene	11.01	178	36193	3.18	ng	97
74) Fluoranthene	12.19	202	98209	9.02	ng	96
77) Pyrene	12.42	202	78286	4.87	ng	98
80) Benzo(a)anthracene	13.60	228	36412	2.87	ng	96
82) Chrysene	13.64	228	48571	3.92	ng	96
87) Benzo(b)fluoranthene	14.60	252	71703	9.01	ng	# 94
88) Benzo(k)fluoranthene	14.60	252	71703	9.46	ng	98
89) Benzo(a)pyrene	14.91	252	28619	3.93	ng	# 92
91) Benzo(a,h,i)perylene	16.55	276	21077	3.37	ng	94

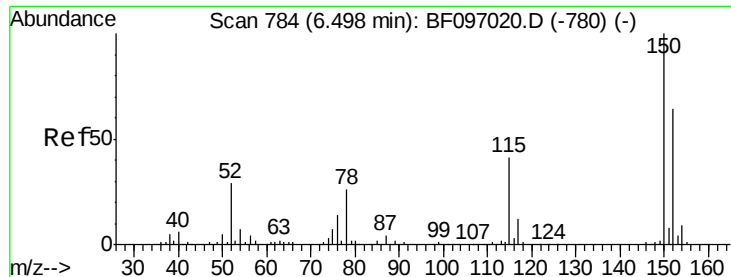
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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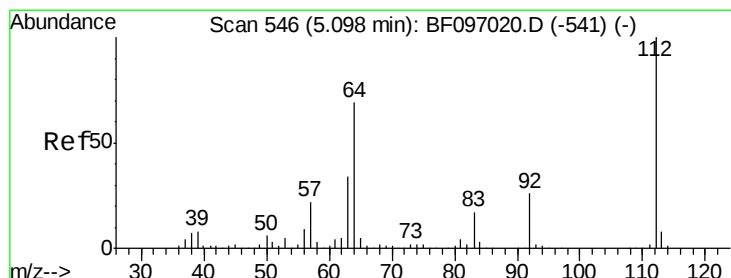
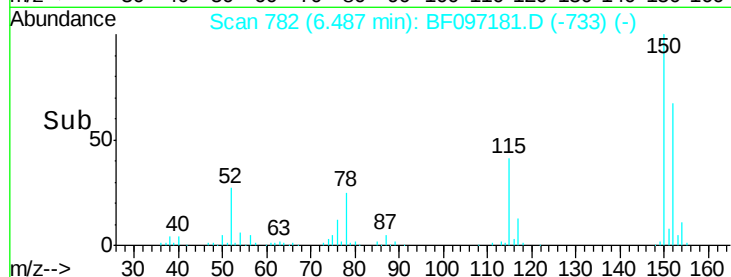
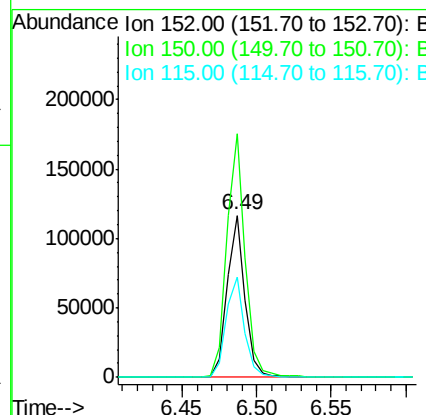
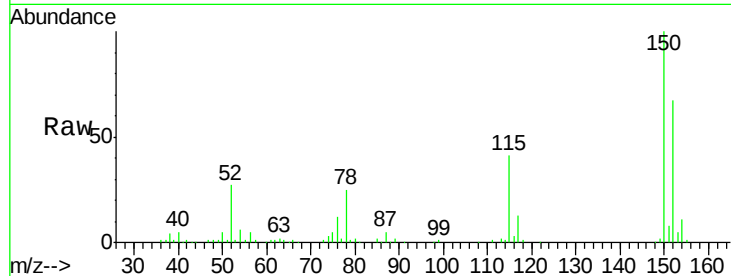


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.49 min Scan# 782
Delta R.T. -0.01 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Instrument :
BNA_F
ClientSampleId :
SEDIMENT-1

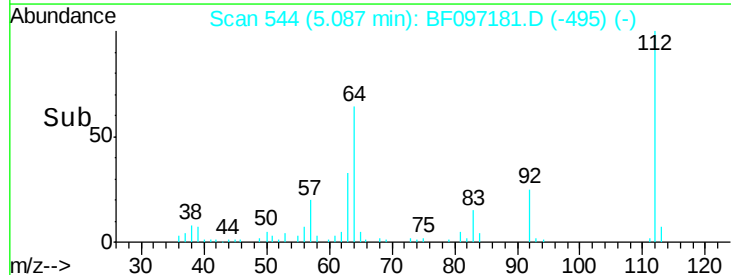
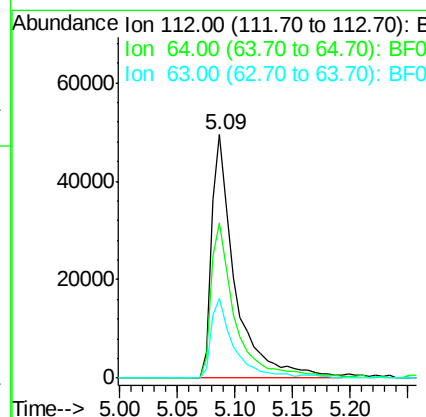
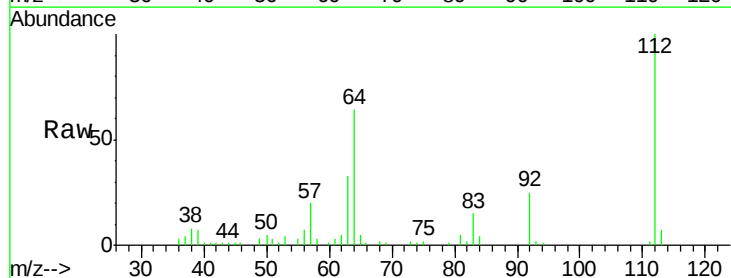
Tot Ion:152 Resp: 99157
Ion Ratio Lower Upper
152 100
150 150.1 126.2 189.2
115 61.9 52.2 78.2

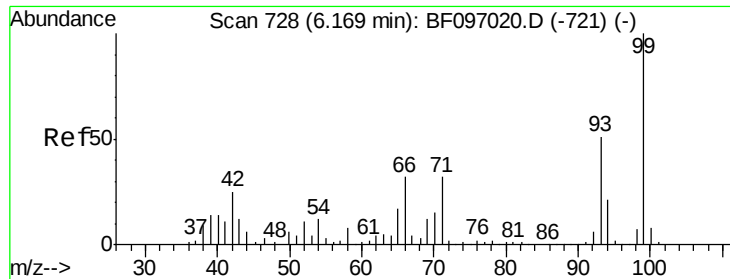


#5

2-Fluorophenol
Concen: 10.62 ng
RT: 5.09 min Scan# 544
Delta R.T. -0.01 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Tgt Ion:112 Resp: 69850
Ion Ratio Lower Upper
112 100
64 64.0 46.0 69.0
63 32.5 23.4 35.0





#7

Phenol-d6

Concen: 11.18 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Instrument :

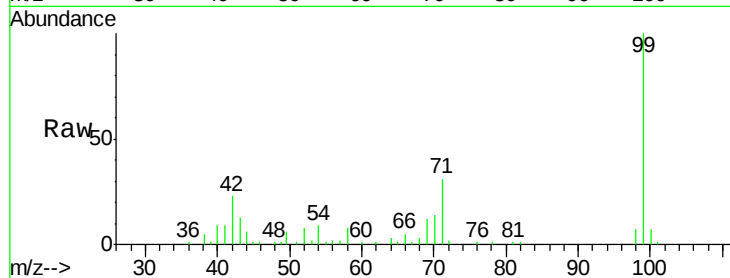
BNA_F

ClientSampleId :

SEDIMENT-1

Tot Ion: 99 Resp: 83954

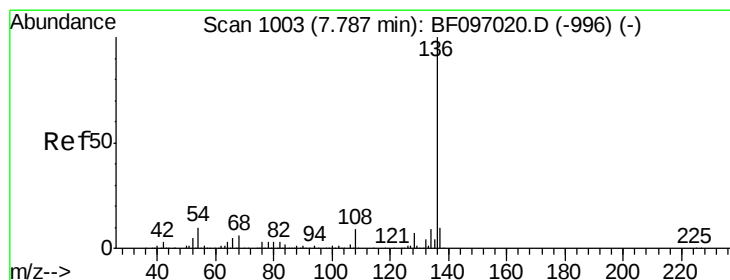
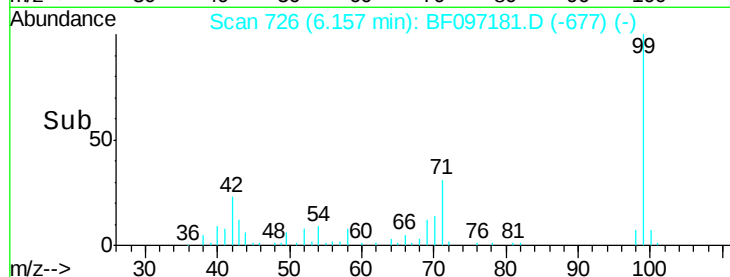
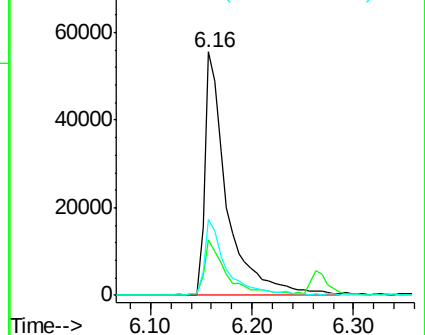
Ion	Ratio	Lower	Upper
99	100		
42	23.0	13.5	20.3#
71	31.3	24.5	36.7



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.77 min Scan# 1000

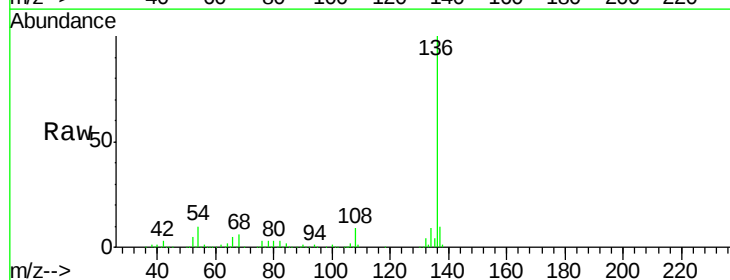
Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Tgt Ion: 136 Resp: 403625

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.5	12.7
54	10.2	4.9	7.3#
68	5.8	4.1	6.1

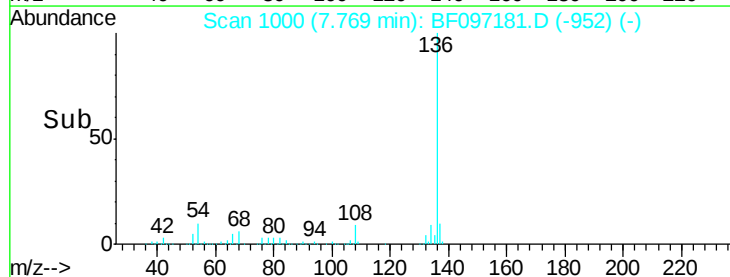
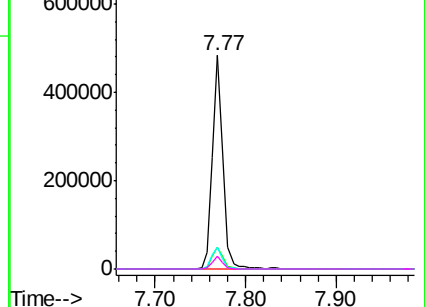


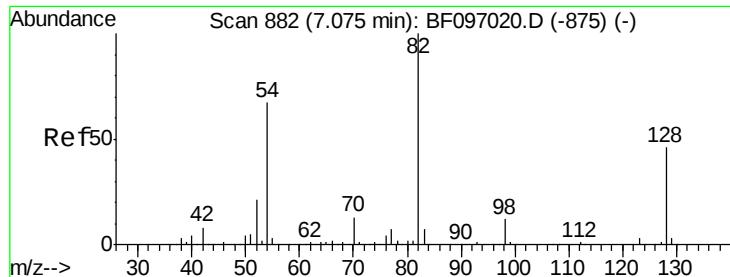
Abundance Ion 136.00 (135.70 to 136.70): E

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

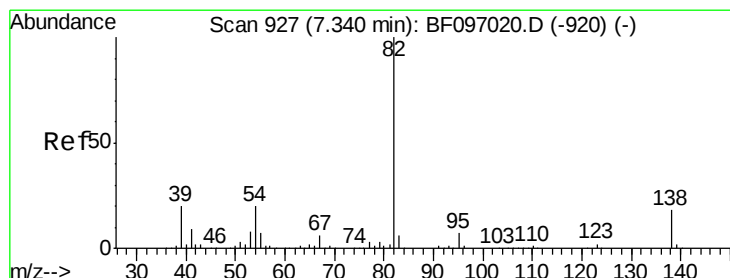
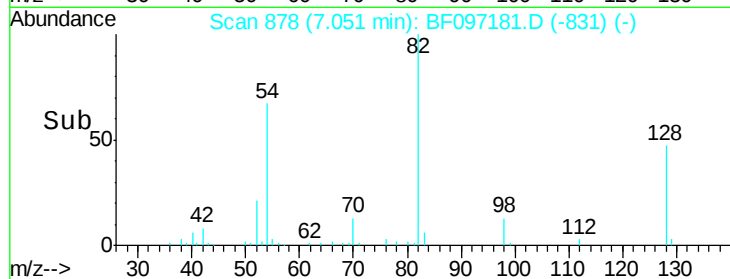
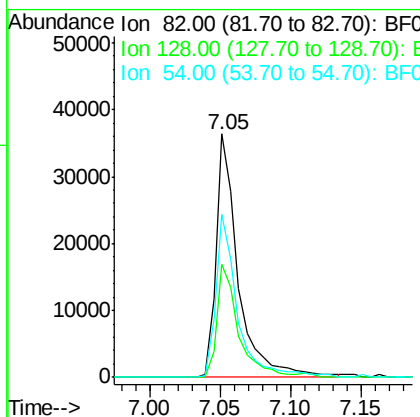
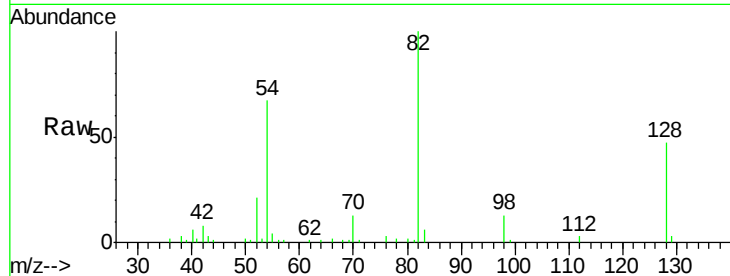




#23
 Nitrobenzene-d5
 Concen: 5.74 ng
 RT: 7.05 min Scan# 878
 Delta R.T. -0.02 min
 Lab File: BF097181.D
 Acq: 29 Jul 2017 3:57

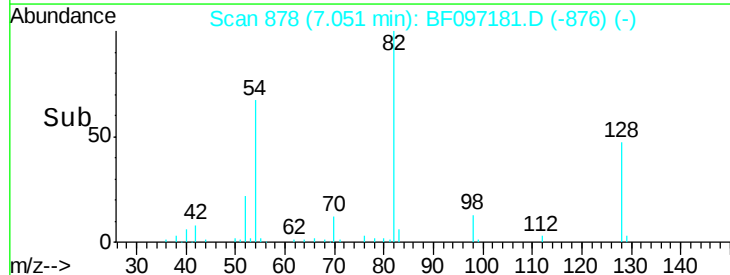
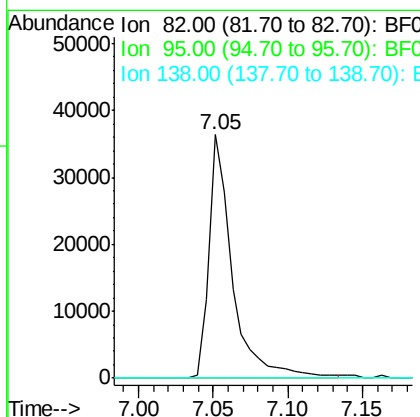
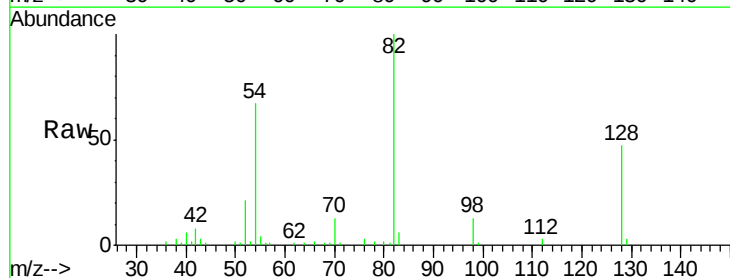
Instrument :
 BNA_F
 ClientSampleId :
 SEDIMENT-1

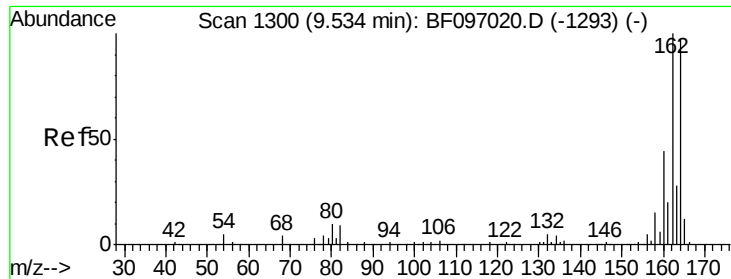
Tot Ion: 82 Resp: 39498
 Ion Ratio Lower Upper
 82 100
 128 46.6 34.0 51.0
 54 67.0 42.2 63.2#



#25
 Isophorone
 Concen: 2.93 ng
 RT: 7.05 min Scan# 878
 Delta R.T. -0.29 min
 Lab File: BF097181.D
 Acq: 29 Jul 2017 3:57

Tgt Ion: 82 Resp: 39498
 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: 9.52 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Instrument :

BNA_F

ClientSampleId :

SEDIMENT-1

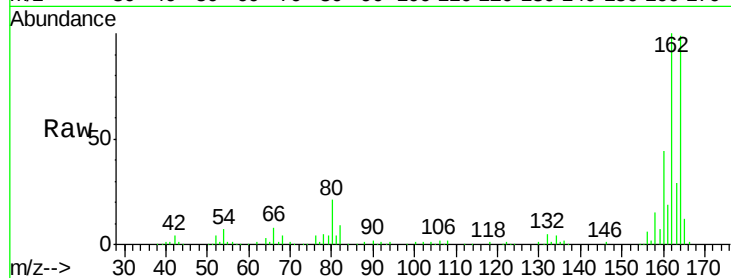
Tot Ion:164 Resp: 140533

Ion Ratio Lower Upper

164 100

162 101.1 82.6 123.8

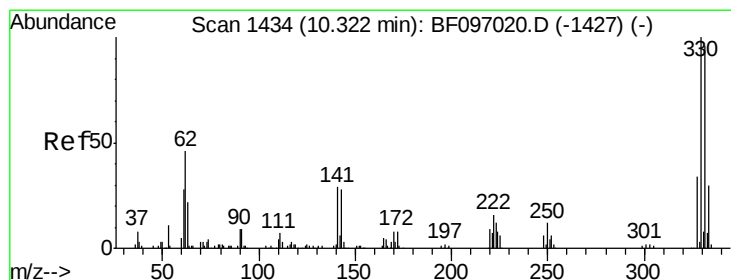
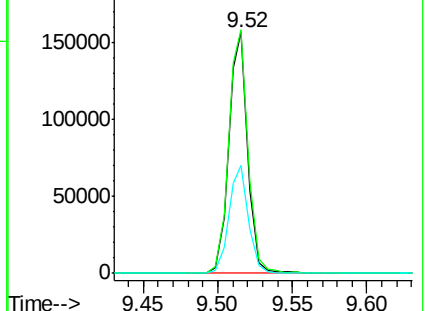
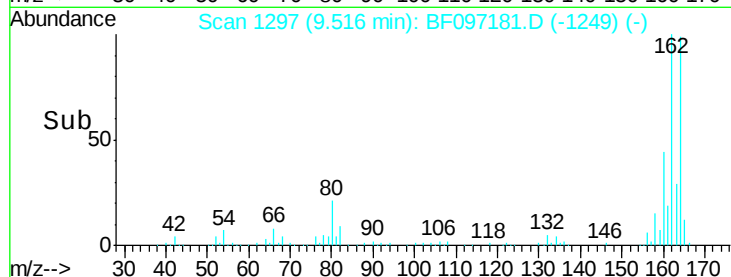
160 44.6 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 7.63 ng

RT: 10.30 min Scan# 1431

Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

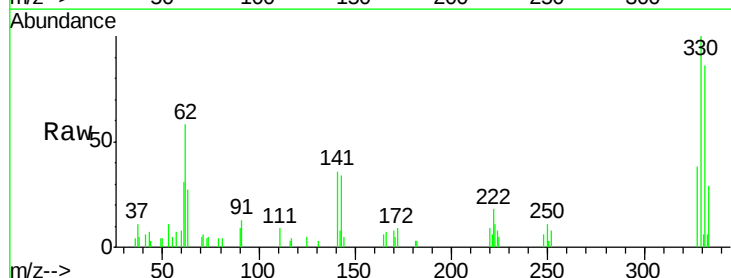
Tgt Ion:330 Resp: 8474

Ion Ratio Lower Upper

330 100

332 101.1 76.6 115.0

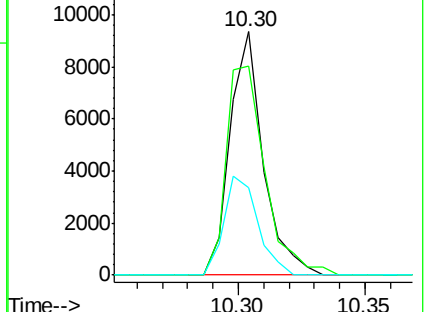
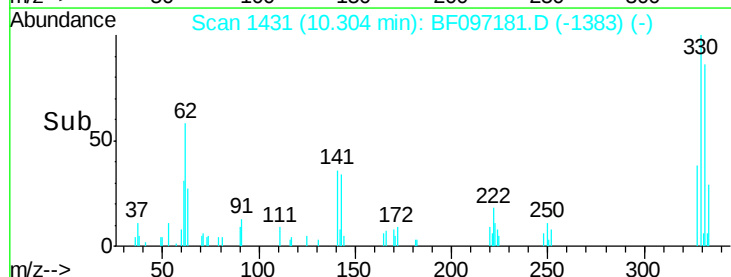
141 41.4 31.4 47.2

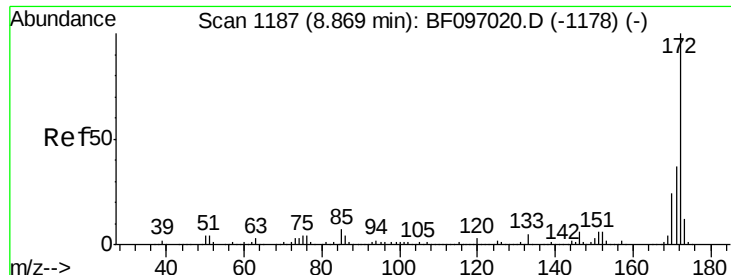


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

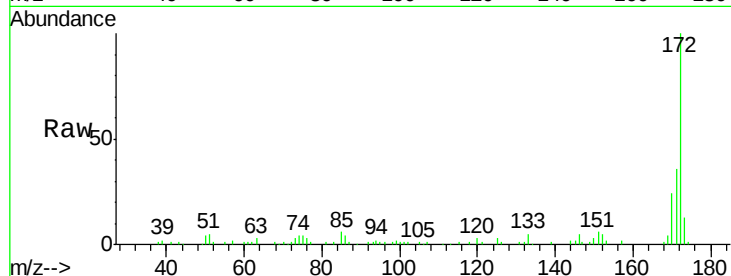




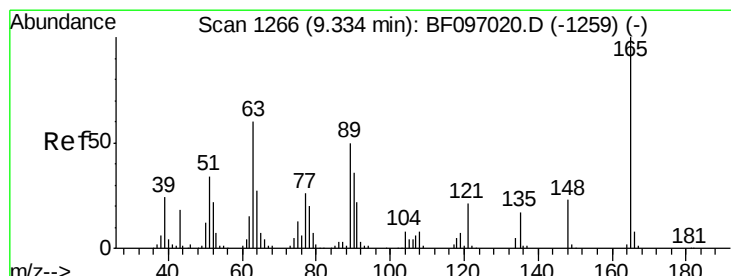
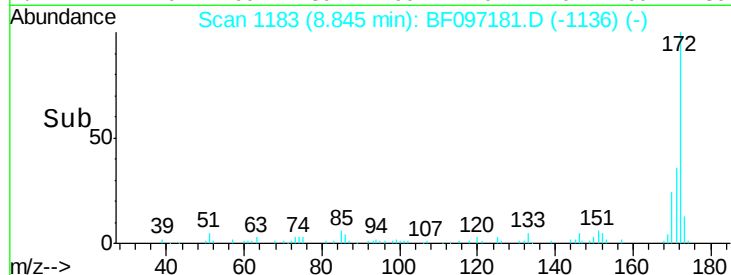
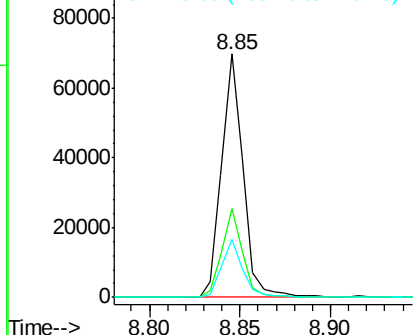
#44
 2-Fluorobiphenyl
 Concen: 6.97 ng
 RT: 8.85 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF097181.D
 Acq: 29 Jul 2017 3:57

Instrument :
 BNA_F
 ClientSampleId :
 SEDIMENT-1

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.6	44.4
170	23.8	19.8	29.8

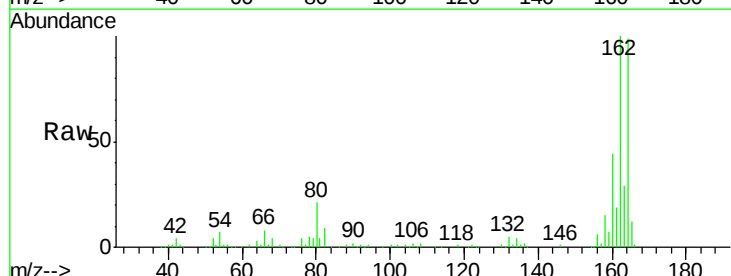


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

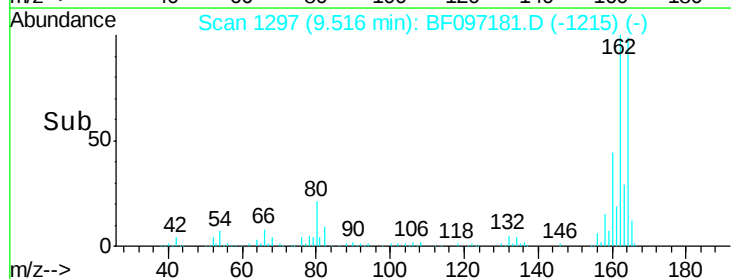
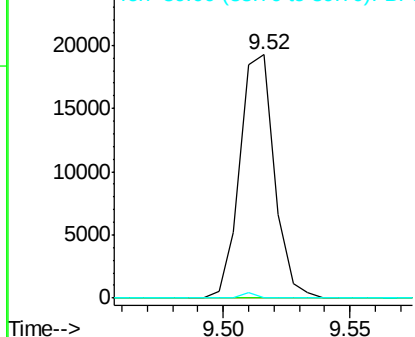


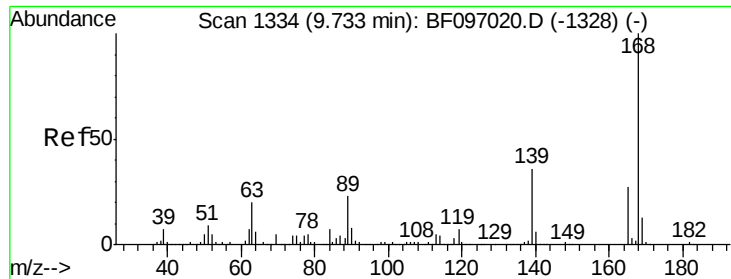
#50
 2,6-Dinitrotoluene
 Concen: 8.06 ng
 RT: 9.52 min Scan# 1297
 Delta R.T. 0.18 min
 Lab File: BF097181.D
 Acq: 29 Jul 2017 3:57

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



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





#56

2,4-Dinitrotoluene

Concen: 7.01 ng

RT: 9.52 min Scan# 1297

Delta R.T. -0.22 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Instrument :

BNA_F

ClientSampleId :

SEDIMENT-1

Tot Ion:165 Resp: 18234

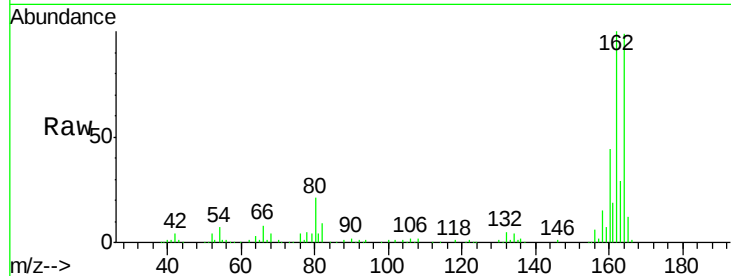
Ion Ratio Lower Upper

165 100

63 0.0 25.4 38.0#

89 0.0 46.4 69.6#

182 0.0 1.8 2.6#

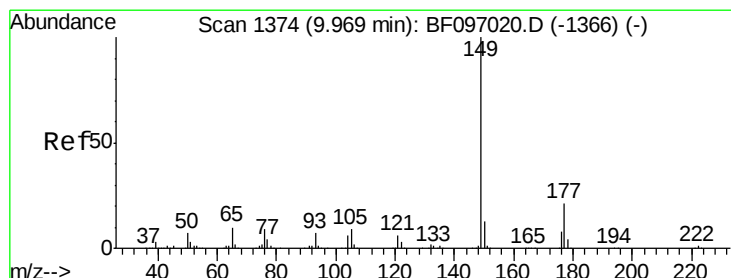
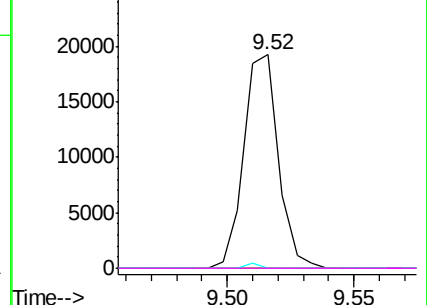
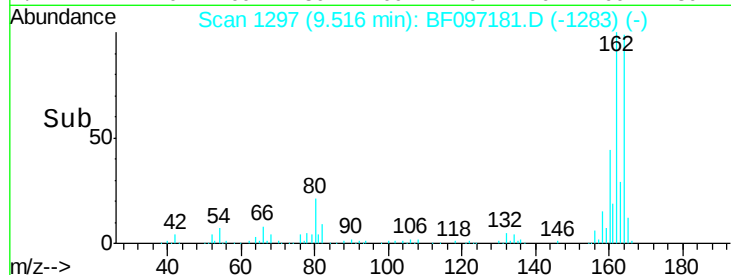


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#59

Diethylphthalate

Concen: 2.44 ng

RT: 9.95 min Scan# 1370

Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

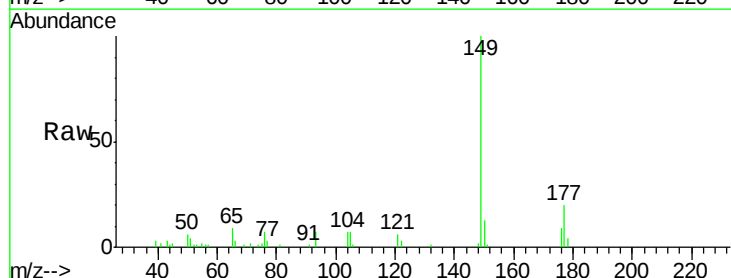
Tgt Ion:149 Resp: 23910

Ion Ratio Lower Upper

149 100

177 20.1 16.7 25.1

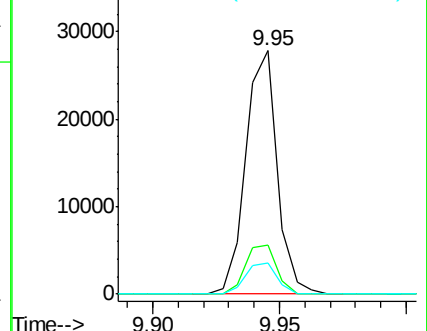
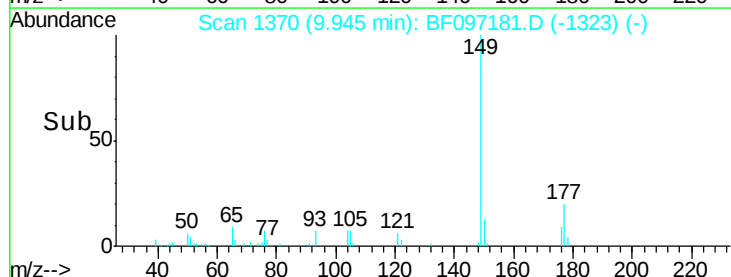
150 12.7 10.2 15.2

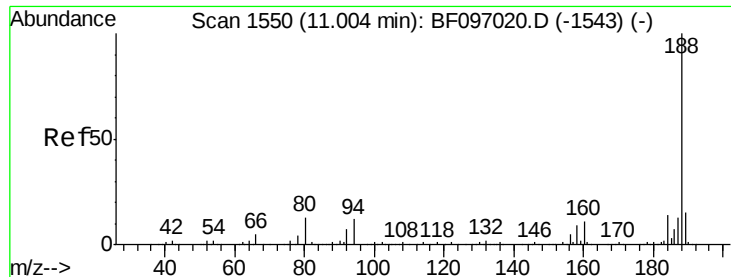


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 177.00 (176.70 to 177.70): E

Ion 150.00 (149.70 to 150.70): E

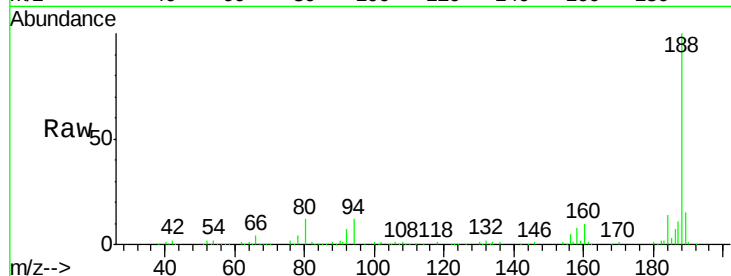




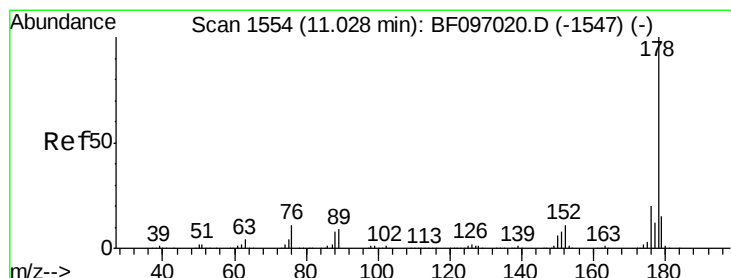
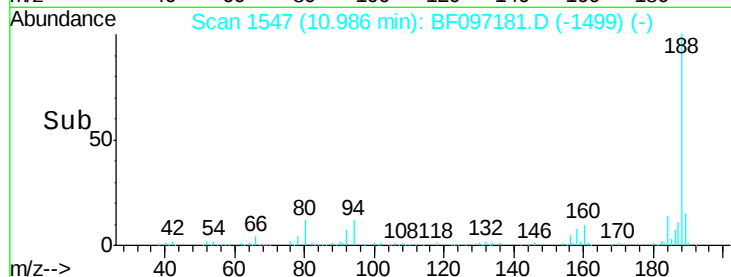
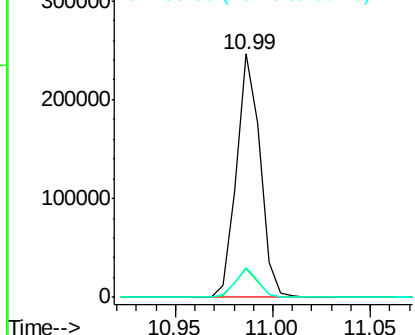
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.99 min Scan# 1547
Delta R.T. -0.02 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Instrument :
BNA_F
ClientSampleId :
SEDIMENT-1

Tot Ion:188 Resp: 207319
Ion Ratio Lower Upper
188 100
94 11.5 9.4 14.2
80 12.3 10.2 15.2

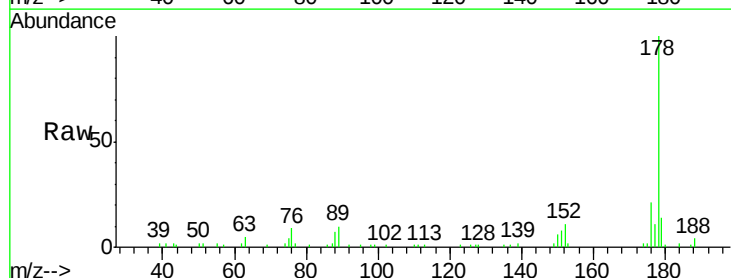


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

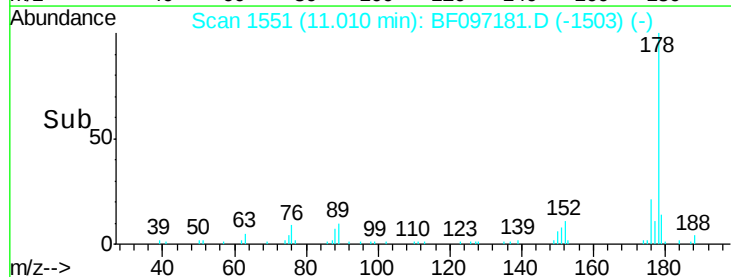
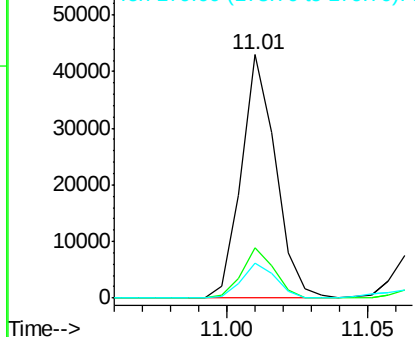


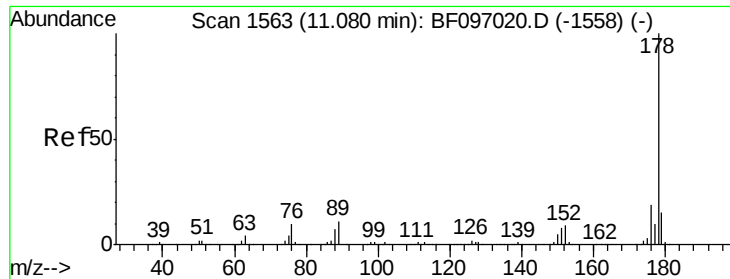
#70
Phenanthrene
Concen: 3.26 ng
RT: 11.01 min Scan# 1551
Delta R.T. -0.02 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Tgt Ion:178 Resp: 36193
Ion Ratio Lower Upper
178 100
176 20.7 16.2 24.4
179 14.5 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

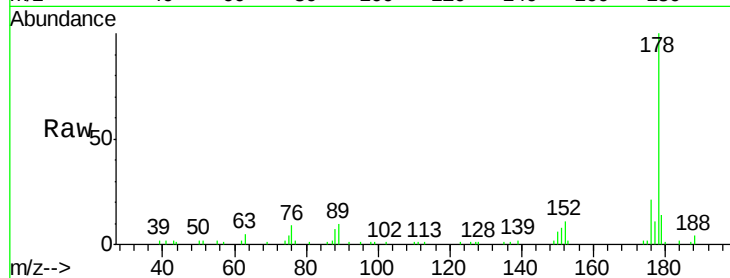




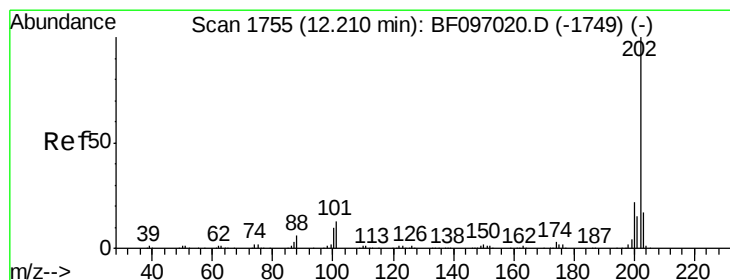
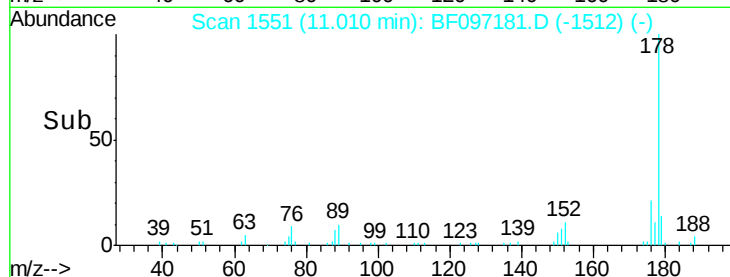
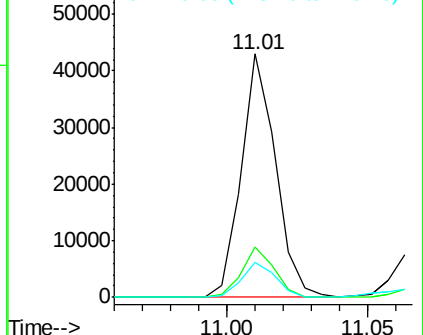
#71
 Anthracene
 Concen: 3.18 ng
 RT: 11.01 min Scan# 1551
 Delta R.T. -0.07 min
 Lab File: BF097181.D
 Acq: 29 Jul 2017 3:57

Instrument :
 BNA_F
 ClientSampleId :
 SEDIMENT-1

Tot Ion:178 Resp: 36193
 Ion Ratio Lower Upper
 178 100
 176 20.7 15.8 23.8
 179 14.5 12.7 19.1

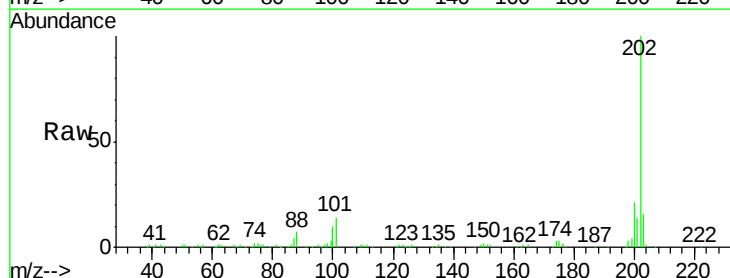


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

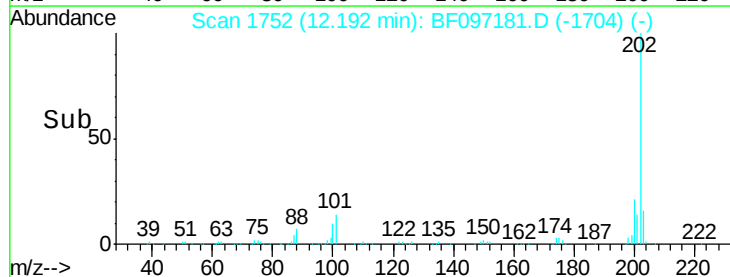
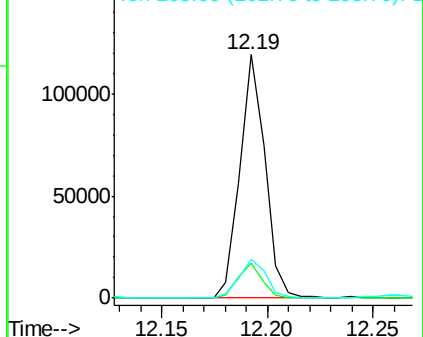


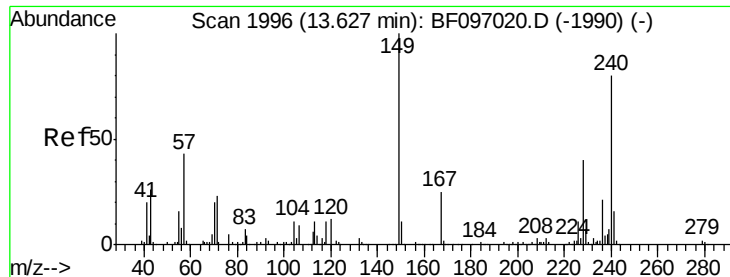
#74
 Fluoranthene
 Concen: 9.02 ng
 RT: 12.19 min Scan# 1752
 Delta R.T. -0.02 min
 Lab File: BF097181.D
 Acq: 29 Jul 2017 3:57

Tgt Ion:202 Resp: 98209
 Ion Ratio Lower Upper
 202 100
 101 14.4 0.0 33.2
 203 16.1 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: 13.62 min Scan# 1994

Delta R.T. -0.01 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Instrument :

BNA_F

ClientSampleId :

SEDIMENT-1

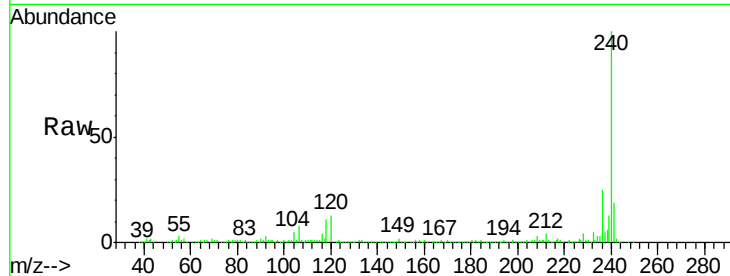
Tot Ion:240 Resp: 196237

Ion Ratio Lower Upper

240 100

120 12.8 5.8 8.8#

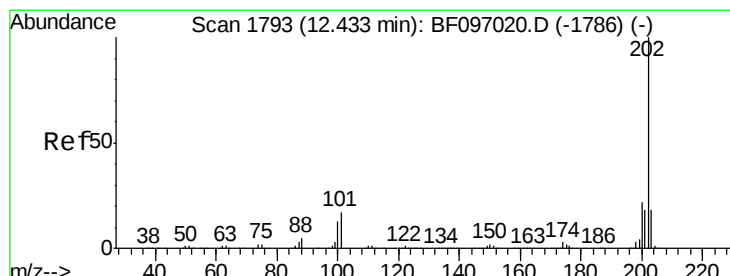
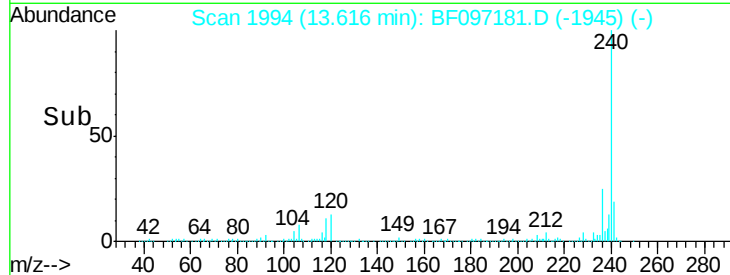
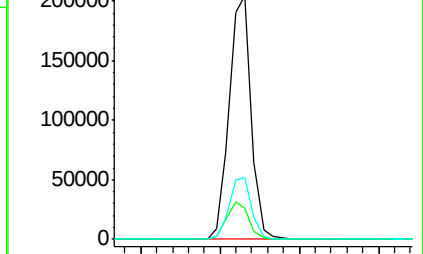
236 25.3 20.5 30.7



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: 4.87 ng

RT: 12.42 min Scan# 1790

Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

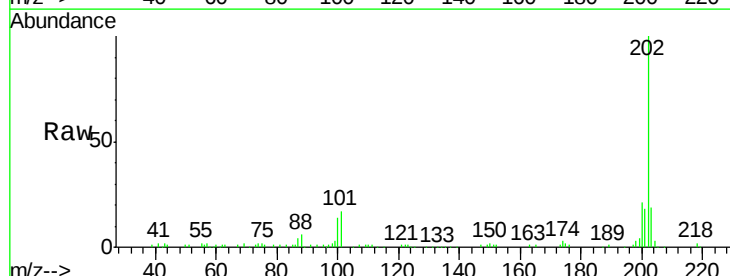
Tgt Ion:202 Resp: 78286

Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

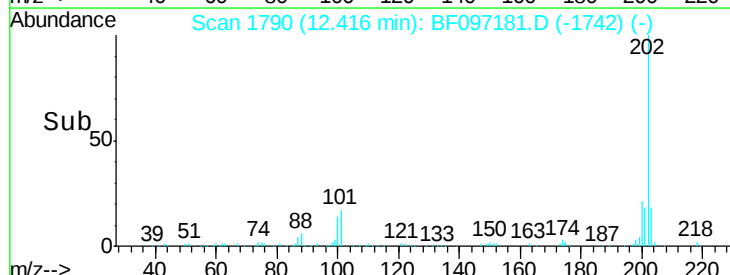
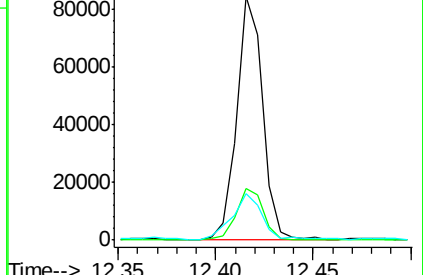
203 18.9 14.4 21.6

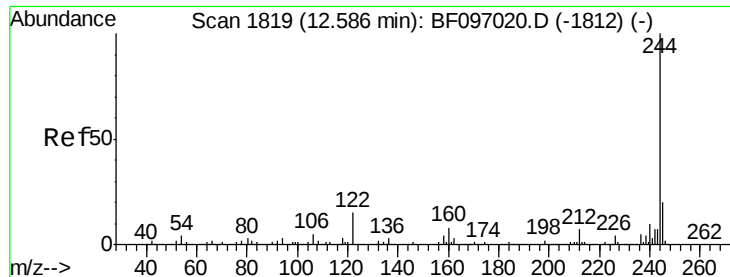


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.12 ng

RT: 12.57 min Scan# 1816

Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Instrument :

BNA_F

ClientSampleId :

SEDIMENT-1

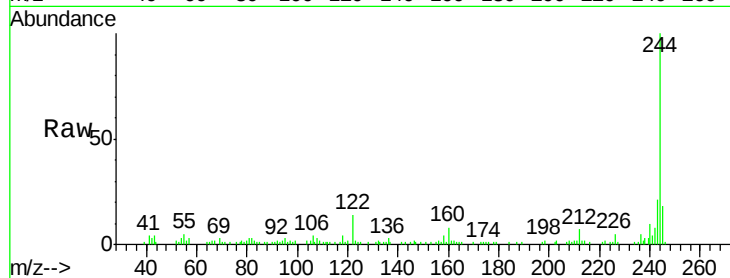
Tot Ion:244 Resp: 39654

Ion Ratio Lower Upper

244 100

212 6.5 6.0 9.0

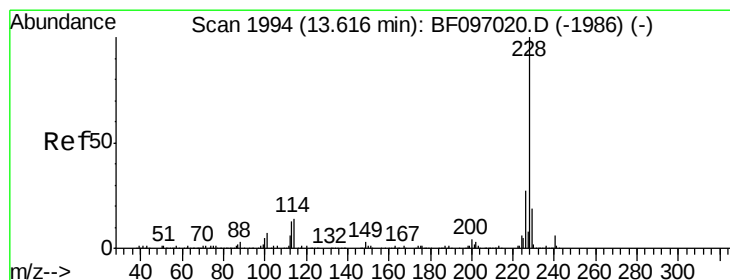
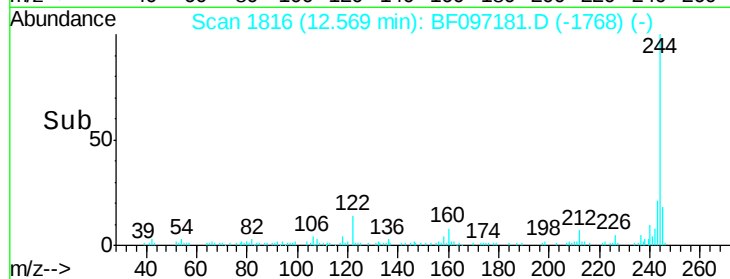
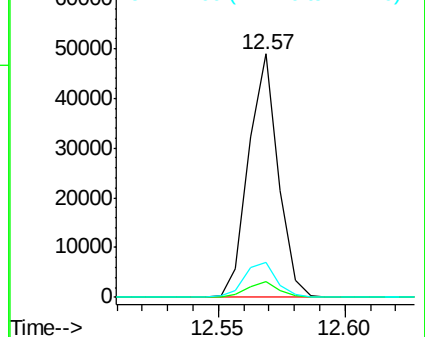
122 14.2 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 2.87 ng

RT: 13.60 min Scan# 1992

Delta R.T. -0.01 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

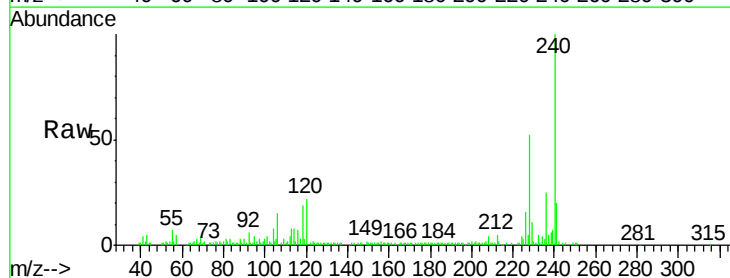
Tgt Ion:228 Resp: 36412

Ion Ratio Lower Upper

228 100

226 30.6 22.6 33.8

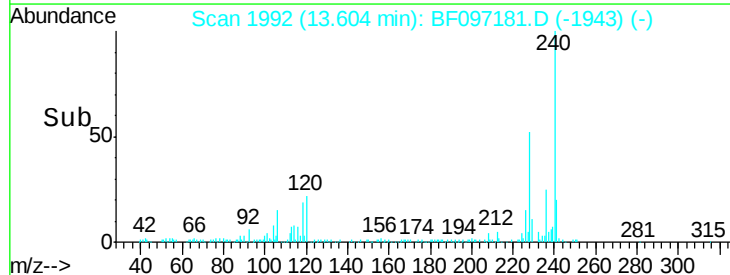
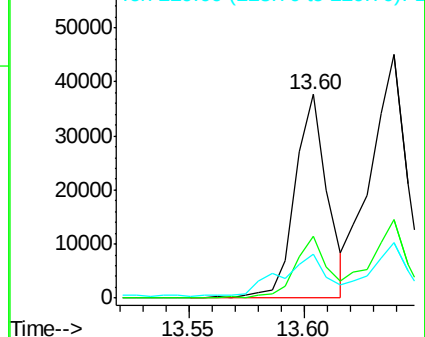
229 21.3 16.3 24.5

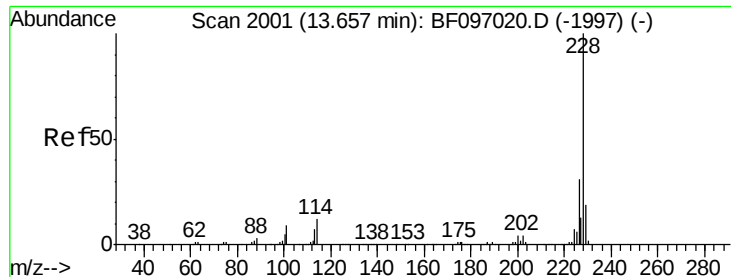


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.92 ng

RT: 13.64 min Scan# 1998

Delta R.T. -0.02 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

Instrument :

BNA_F

ClientSampleId :

SEDIMENT-1

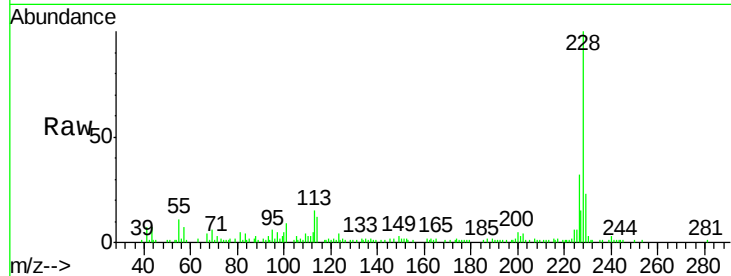
Tot Ion:228 Resp: 48571

Ion Ratio Lower Upper

228 100

226 32.3 24.9 37.3

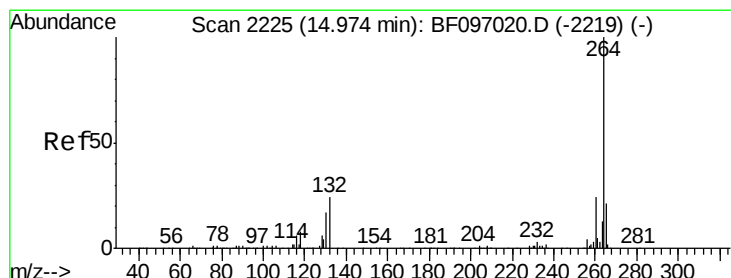
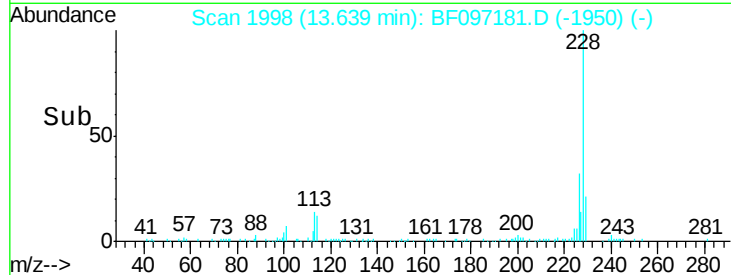
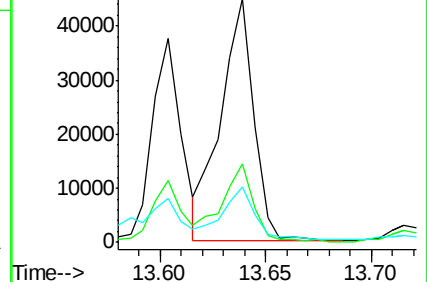
229 22.7 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 14.96 min Scan# 2223

Delta R.T. -0.01 min

Lab File: BF097181.D

Acq: 29 Jul 2017 3:57

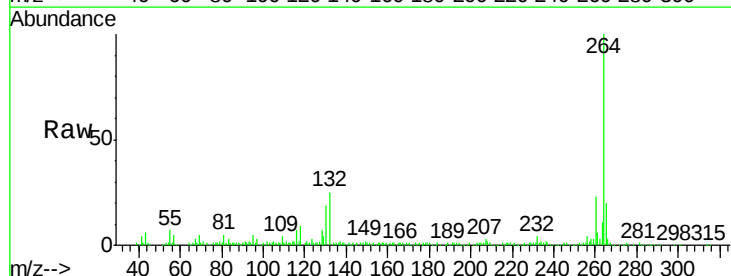
Tgt Ion:264 Resp: 132346

Ion Ratio Lower Upper

264 100

260 22.6 19.5 29.3

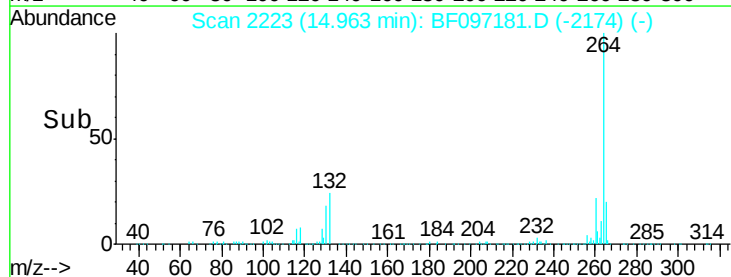
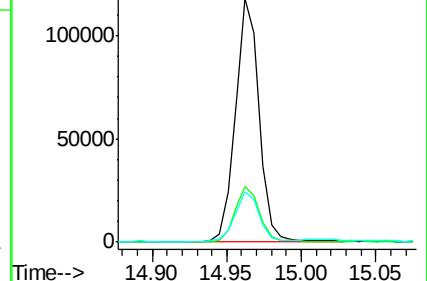
265 20.4 17.2 25.8

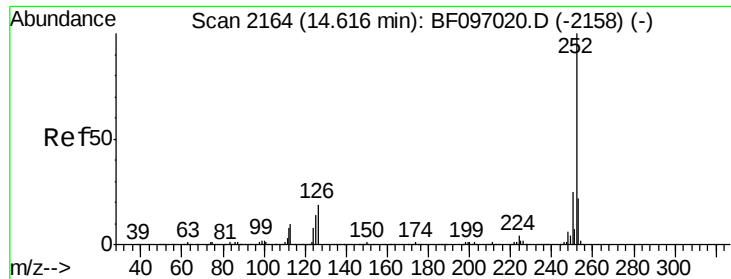


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

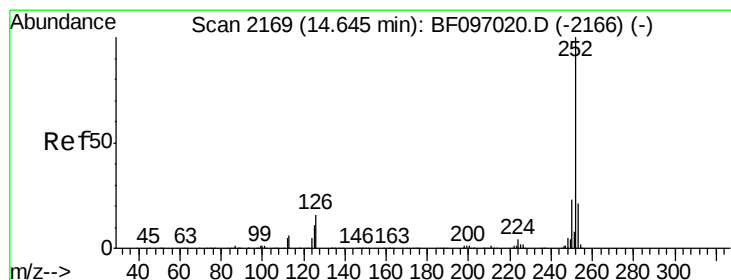
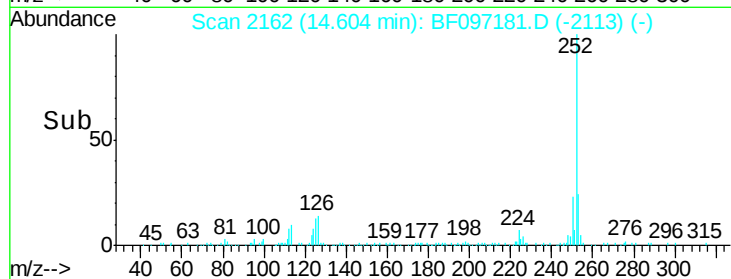
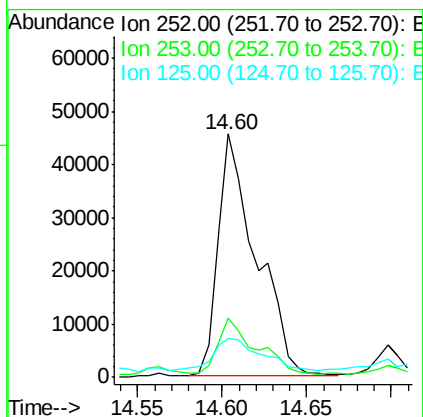
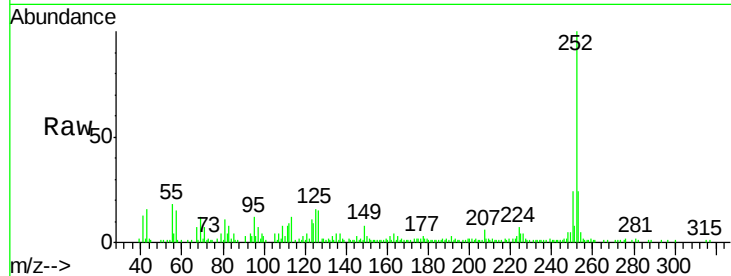




#87
Benzo(b)fluoranthene
Concen: 9.01 ng
RT: 14.60 min Scan# 2162
Delta R.T. -0.01 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

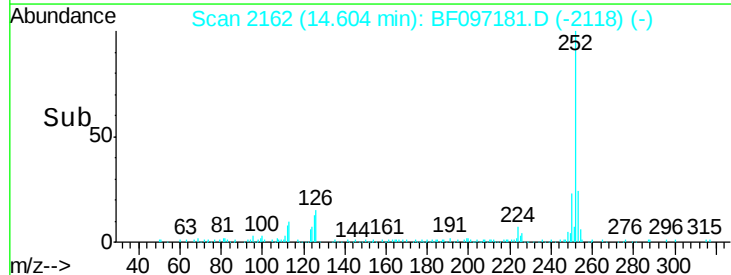
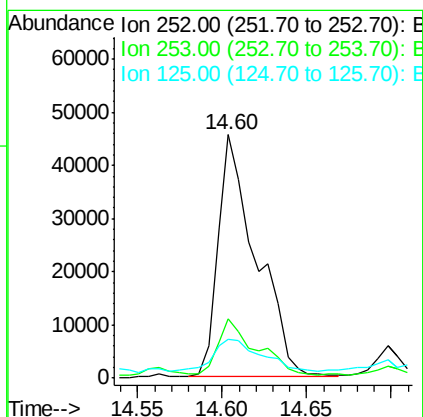
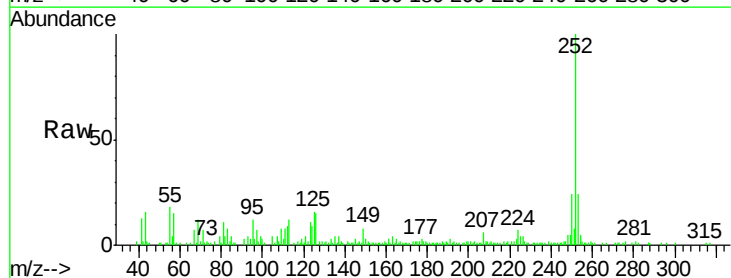
Instrument :
BNA_F
ClientSampleId :
SEDIMENT-1

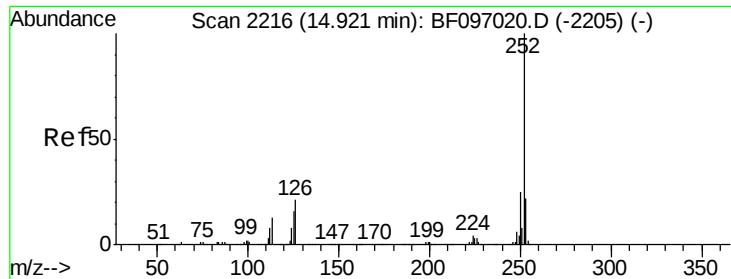
Tot Ion:252 Resp: 71703
Ion Ratio Lower Upper
252 100
253 24.5 18.1 27.1
125 16.0 9.8 14.8#



#88
Benzo(k)fluoranthene
Concen: 9.46 ng
RT: 14.60 min Scan# 2162
Delta R.T. -0.04 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Tgt Ion:252 Resp: 71703
Ion Ratio Lower Upper
252 100
253 24.5 18.4 27.6
125 16.0 13.1 19.7

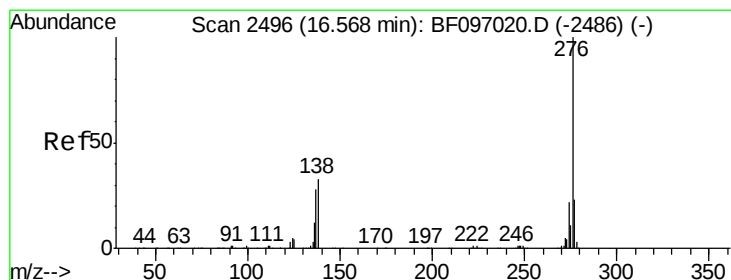
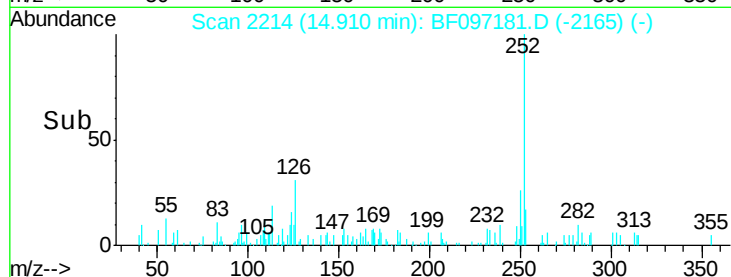
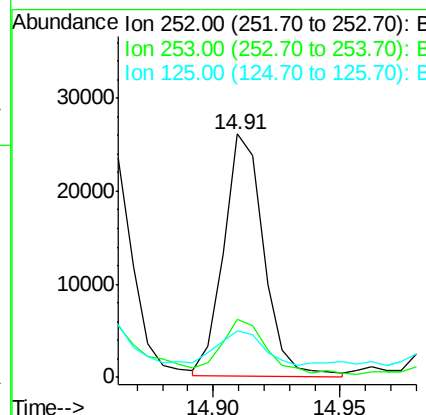
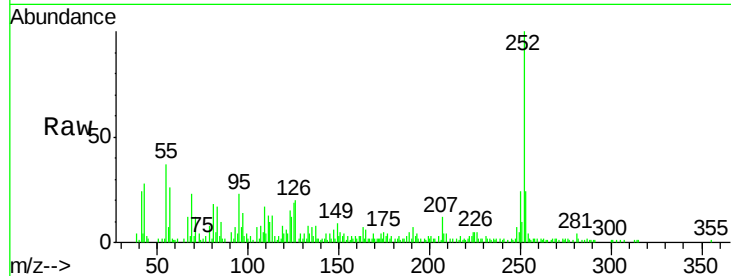




#89
Benzo(a)pyrene
Concen: 3.93 ng
RT: 14.91 min Scan# 2214
Delta R.T. -0.01 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Instrument :
BNA_F
ClientSampleId :
SEDIMENT-1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.5	26.3
125	19.1	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 3.37 ng
RT: 16.55 min Scan# 2493
Delta R.T. -0.02 min
Lab File: BF097181.D
Acq: 29 Jul 2017 3:57

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.1	18.6	28.0
138	35.0	25.4	38.0

