

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072517\
 Data File : BF097058.D
 Acq On : 26 Jul 2017 5:39
 Operator : SJ/JU
 Sample : I4305-05 5X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-M5-WSW

Quant Time: Jul 26 06:12:02 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	6.50	152	133881	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	541869	20.00	ng	0.00
38) Acenaphthene-d10	9.53	164	200205	20.00	ng	0.00
63) Phenanthrene-d10	11.00	188	294849	20.00	ng	0.00
75) Chrysene-d12	13.62	240	226274	20.00	ng	0.00
86) Perylene-d12	14.97	264	181446	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.10	112	141471	15.93	ng	0.00
7) Phenol-d6	6.16	99	171264	16.89	ng	-0.01
23) Nitrobenzene-d5	7.06	82	99508	10.77	ng	-0.01
41) 2,4,6-Tribromophenol	10.32	330	21609	13.66	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	159388	13.51	ng	-0.01
78) Terphenyl-d14	12.58	244	92078	8.30	ng	0.00

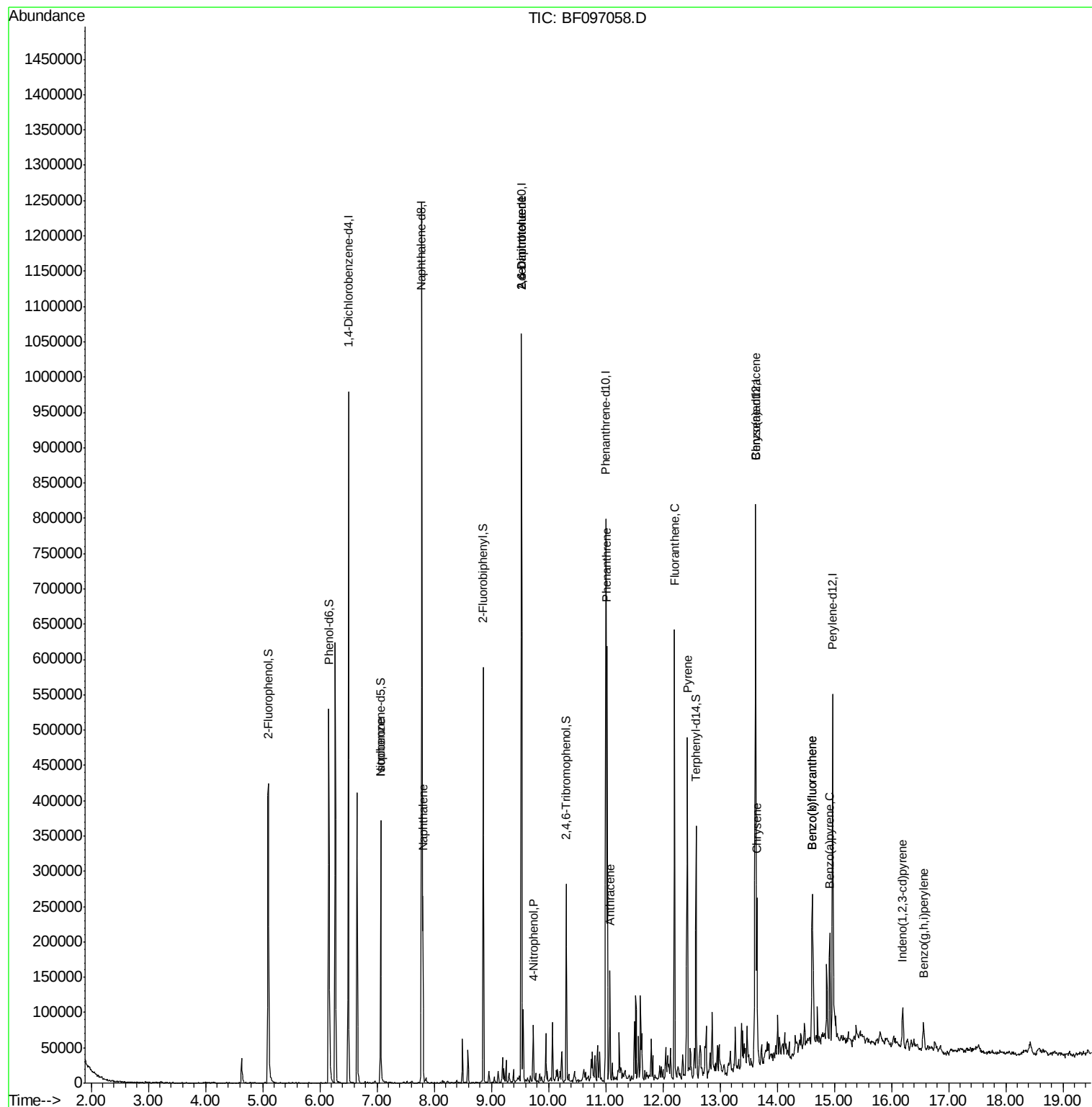
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
25) Isophorone	7.06	82	99365	5.49	ng	# 67
31) Naphthalene	7.80	128	106225	4.16	ng	98
50) 2,6-Dinitrotoluene	9.53	165	26263	8.14	ng	# 34
55) 4-Nitrophenol	9.73	139	10256	4.31	ng	# 28
56) 2,4-Dinitrotoluene	9.53	165	26263	7.09	ng	# 33
70) Phenanthrene	11.02	178	228151	14.44	ng	99
71) Anthracene	11.07	178	56606	3.50	ng	99
74) Fluoranthene	12.20	202	223585	14.45	ng	98
77) Pyrene	12.43	202	196010	10.58	ng	99
80) Benzo(a)anthracene	13.62	228	99150	6.77	ng	100
82) Chrysene	13.65	228	92161	6.45	ng	95
85) Indeno(1,2,3-cd)pyrene	16.20	276	30247	2.47	ng	96
87) Benzo(b)fluoranthene	14.62	252	120341	11.03	ng	# 98
88) Benzo(k)fluoranthene	14.62	252	120341	11.58	ng	98
89) Benzo(a)pyrene	14.92	252	63785	6.39	ng	99
91) Benzo(g,h,i)perylene	16.56	276	27322	3.18	ng	95

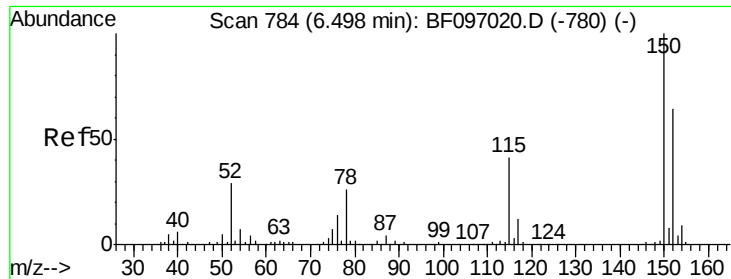
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.50 min Scan# 784

Delta R.T. -0.00 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

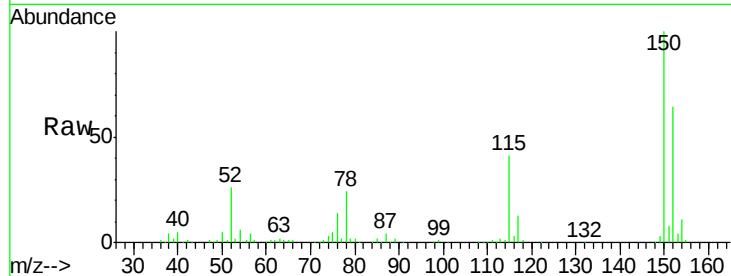
Tot Ion:152 Resp: 133881

Ion Ratio Lower Upper

152 100

150 155.7 126.2 189.2

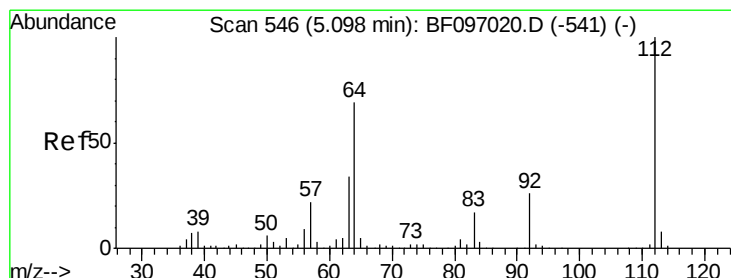
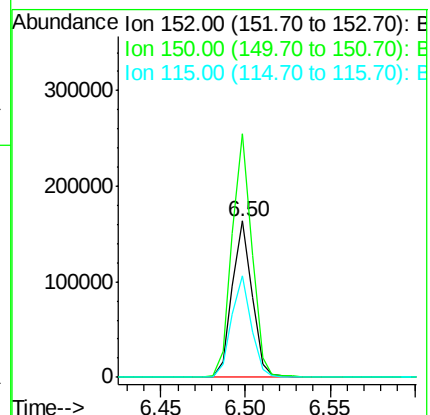
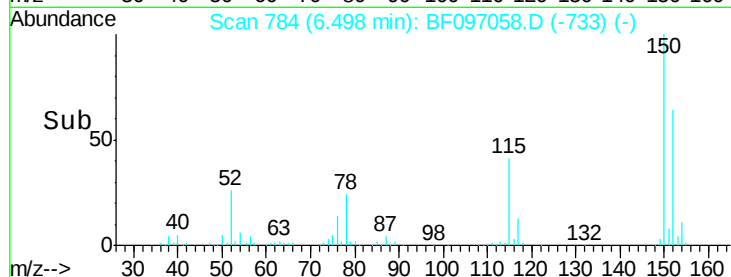
115 64.6 52.2 78.2



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: 15.93 ng

RT: 5.10 min Scan# 546

Delta R.T. 0.00 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

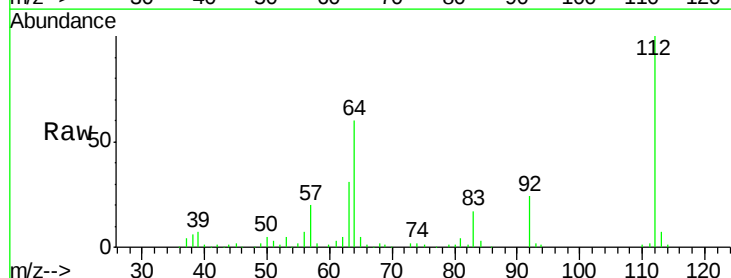
Tgt Ion:112 Resp: 141471

Ion Ratio Lower Upper

112 100

64 60.4 46.0 69.0

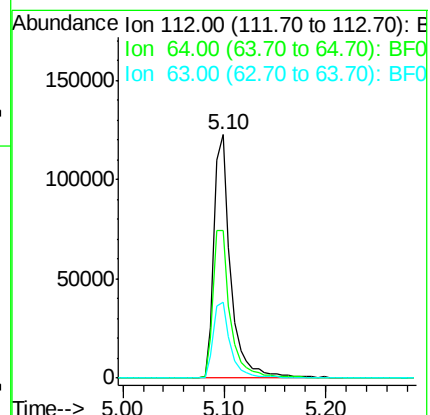
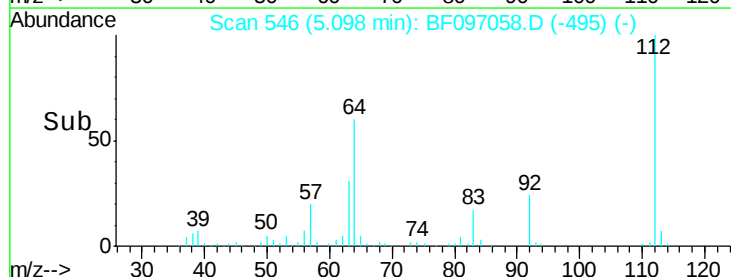
63 31.0 23.4 35.0

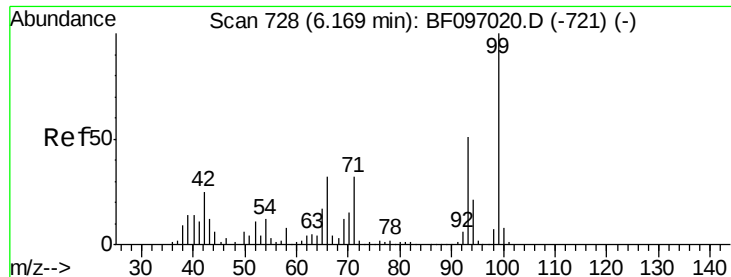


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 16.89 ng

RT: 6.16 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

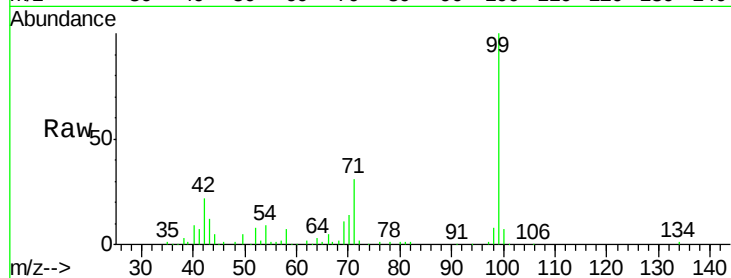
Tot Ion: 99 Resp: 171264

Ion Ratio Lower Upper

99 100

42 22.5 13.5 20.3#

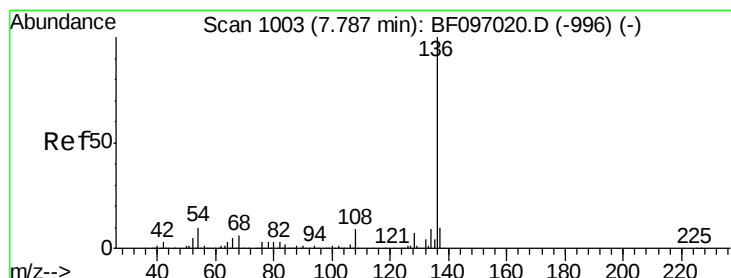
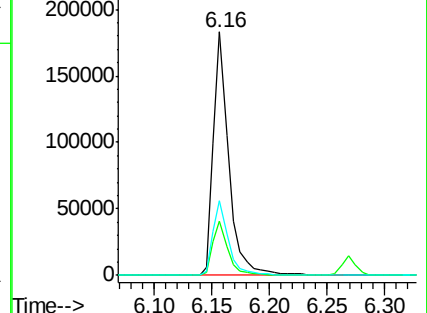
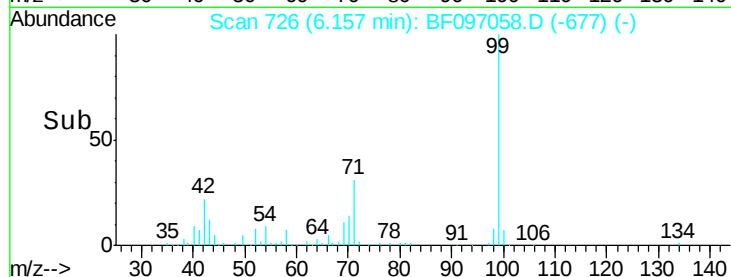
71 30.8 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 1002

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Tgt Ion: 136 Resp: 541869

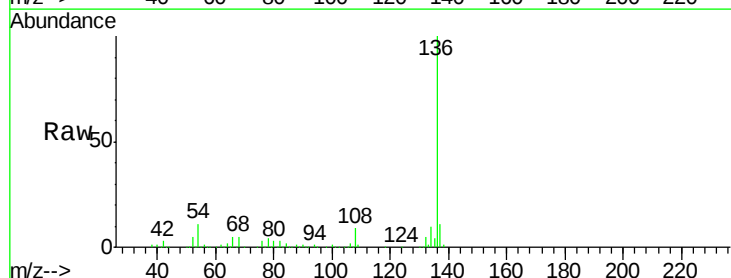
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 10.6 4.9 7.3#

68 5.2 4.1 6.1

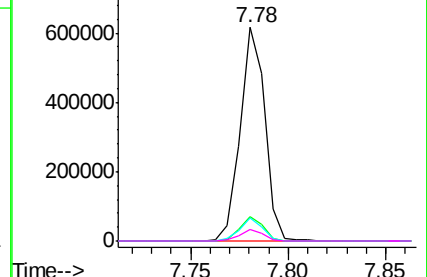
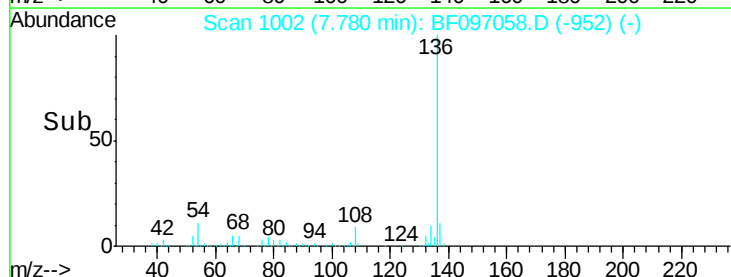


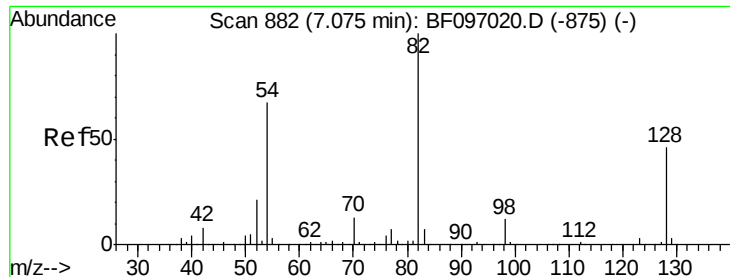
Abundance Ion 136.00 (135.70 to 136.70): E

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

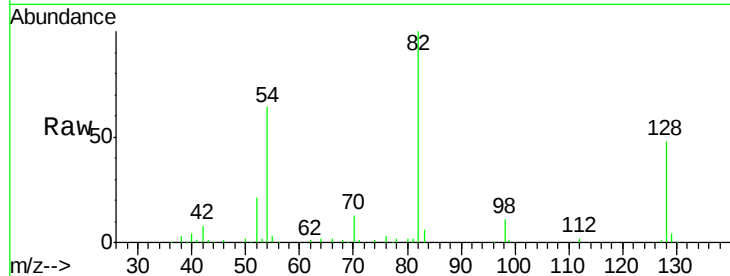




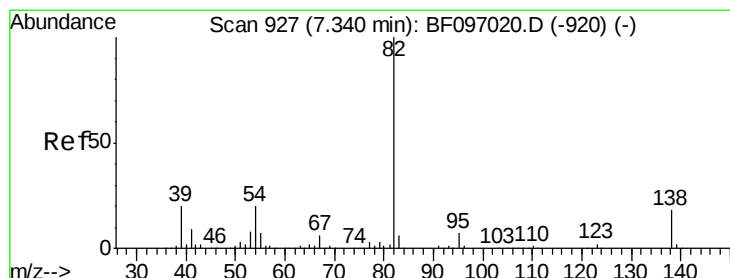
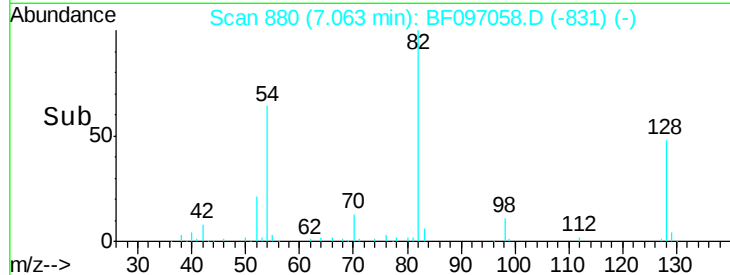
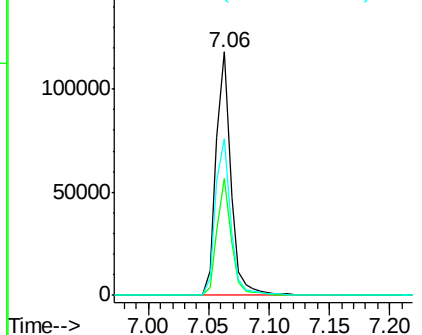
#23
 Nitrobenzene-d5
 Concen: 10.77 ng
 RT: 7.06 min Scan# 880
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Instrument :
 BNA_F
 ClientSampleId :
 E2-M5-WSW

Tot Ion	82	Resp	99508
Ion Ratio	Lower	Upper	
82	100		
128	48.0	34.0	51.0
54	64.2	42.2	63.2#

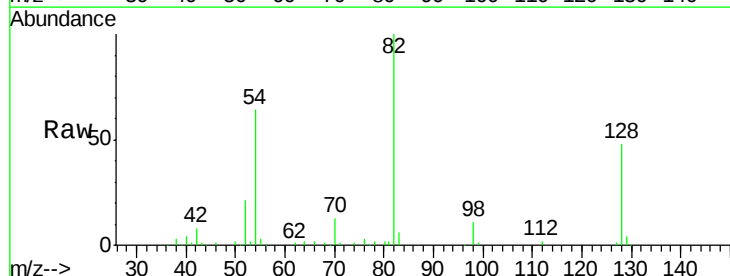


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

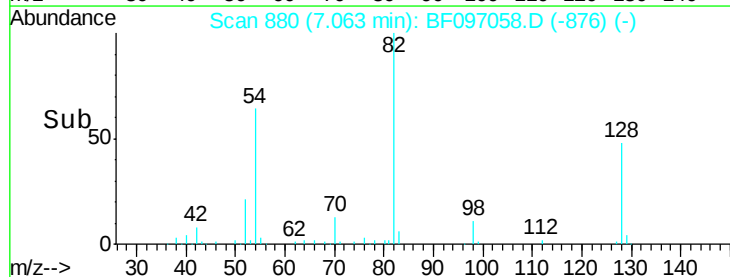
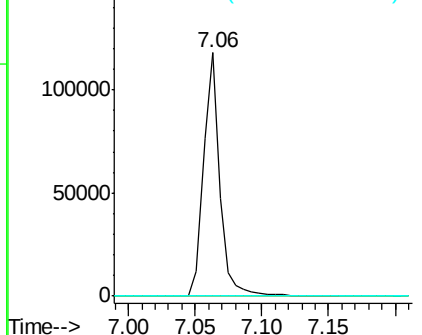


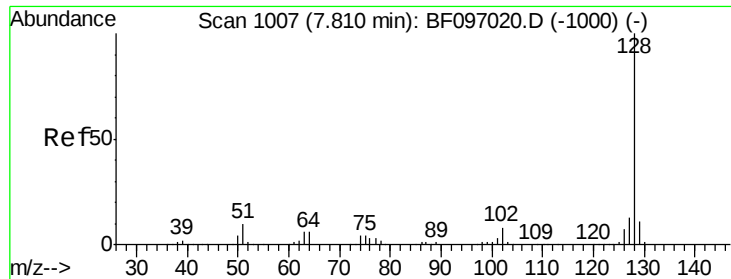
#25
 Isophorone
 Concen: 5.49 ng
 RT: 7.06 min Scan# 880
 Delta R.T. -0.28 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Tgt Ion	82	Resp	99365
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.3	7.9#
138	0.0	13.1	19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 95.00 (94.70 to 95.70): BF0
 Ion 138.00 (137.70 to 138.70): BF0

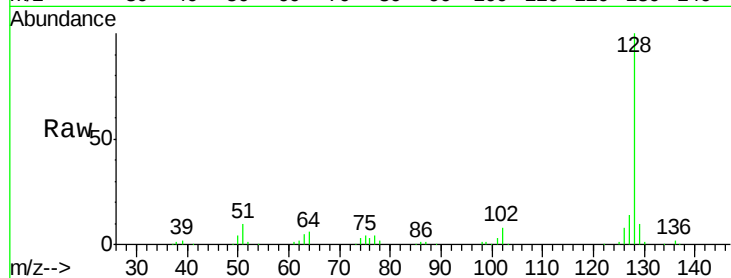




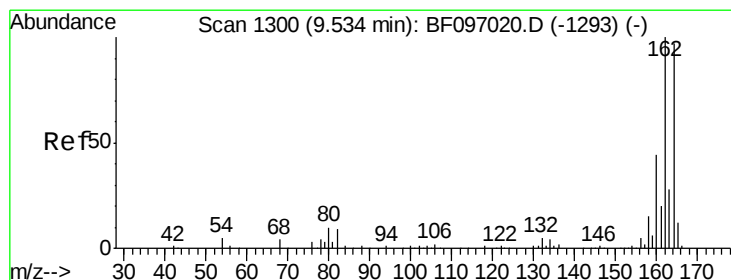
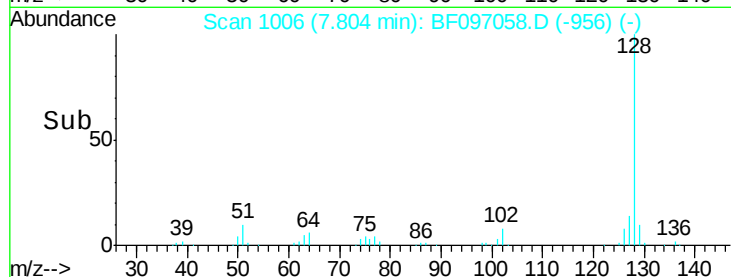
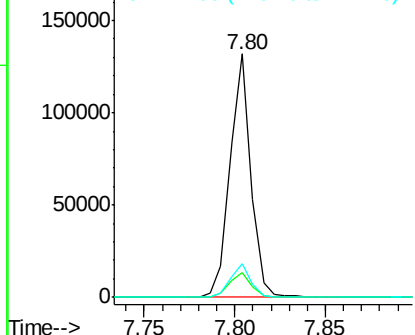
#31
Naphthalene
Concen: 4.16 ng
RT: 7.80 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Instrument :
BNA_F
ClientSampleId :
E2-M5-WSW

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.2	9.0	13.6
127	13.9	10.8	16.2

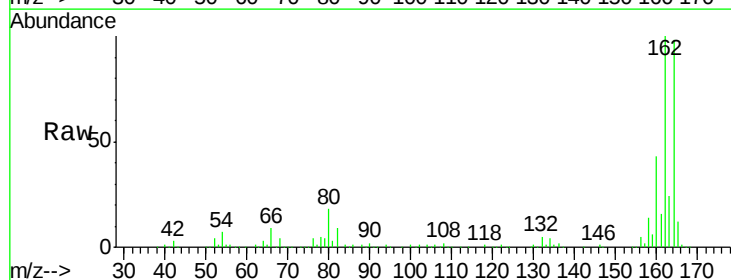


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

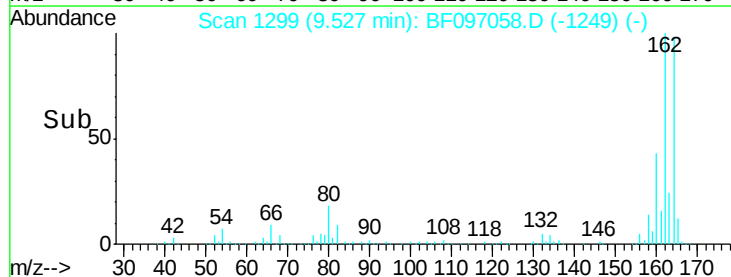
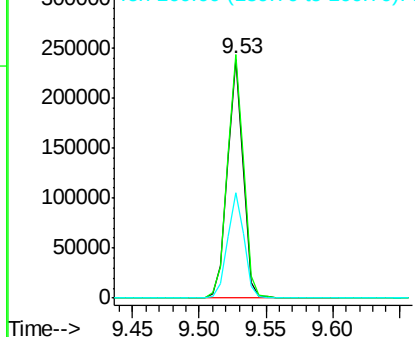


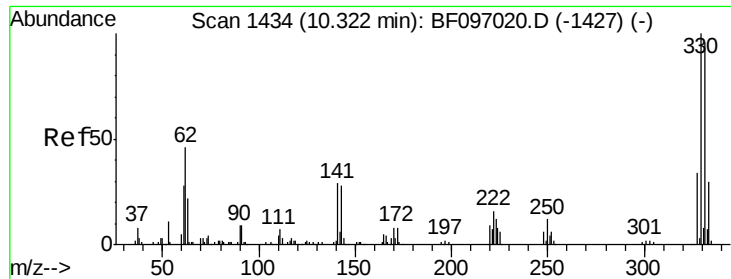
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.53 min Scan# 1299
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.1	82.6	123.8
160	44.3	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

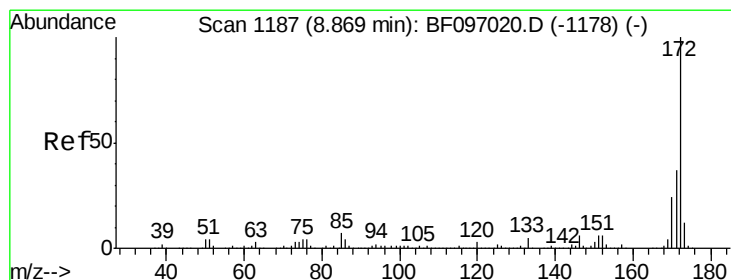
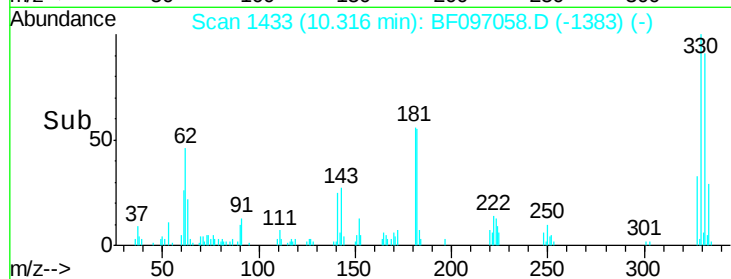
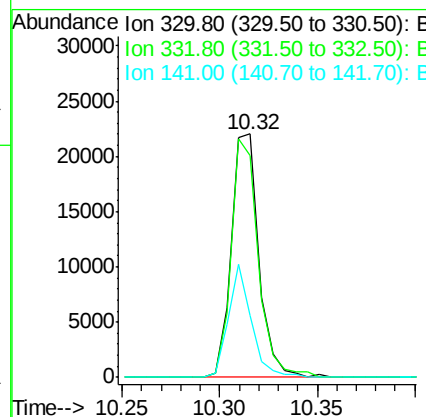
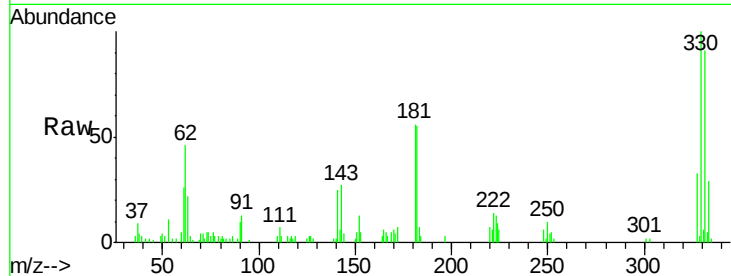




#41
 2,4,6-Tribromophenol
 Concen: 13.66 ng
 RT: 10.32 min Scan# 1433
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

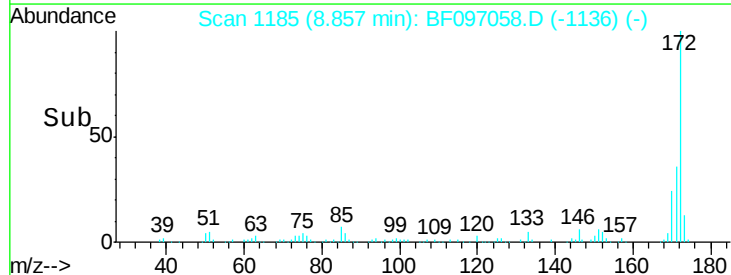
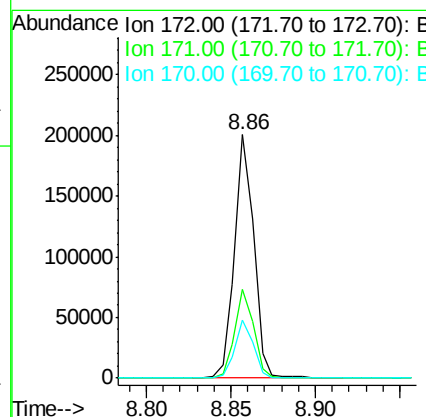
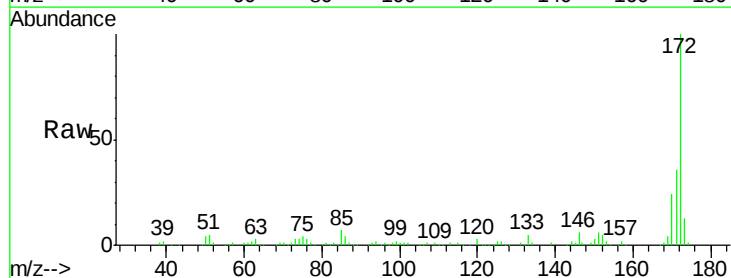
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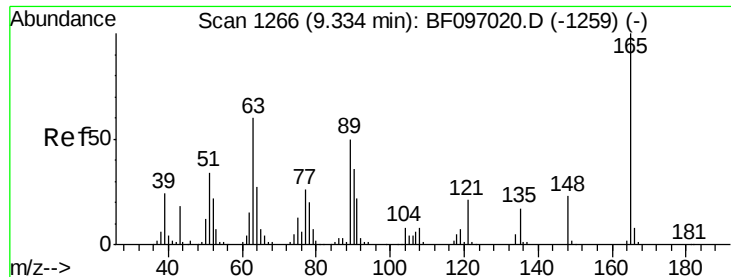
Tot Ion	Ratio	Lower	Upper
330	100		
332	95.6	76.6	115.0
141	38.7	31.4	47.2



#44
 2-Fluorobiphenyl
 Concen: 13.51 ng
 RT: 8.86 min Scan# 1185
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.6	44.4
170	24.0	19.8	29.8

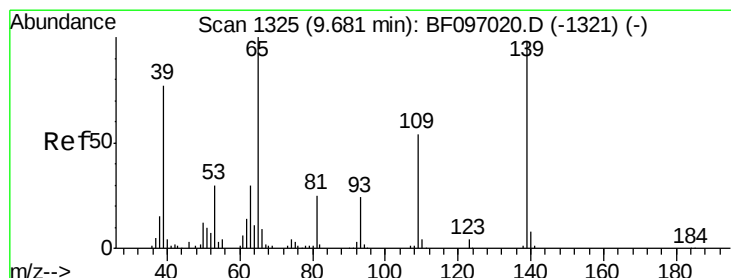
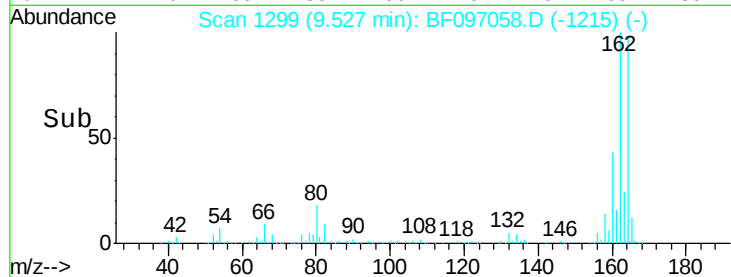
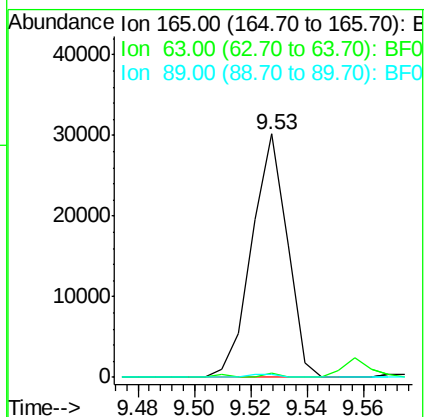
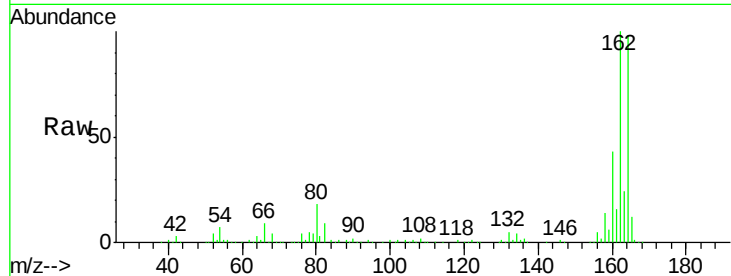




#50
2,6-Dinitrotoluene
Concen: 8.14 ng
RT: 9.53 min Scan# 1299
Delta R.T. 0.19 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

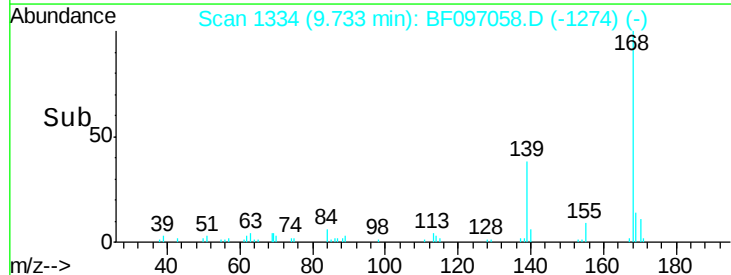
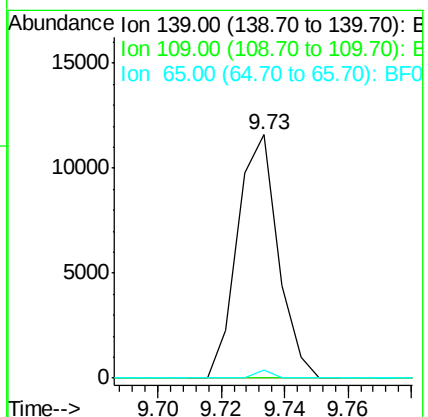
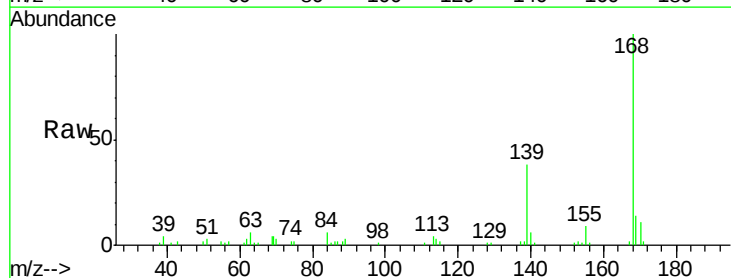
Instrument :
BNA_F
ClientSampleId :
E2-M5-WSW

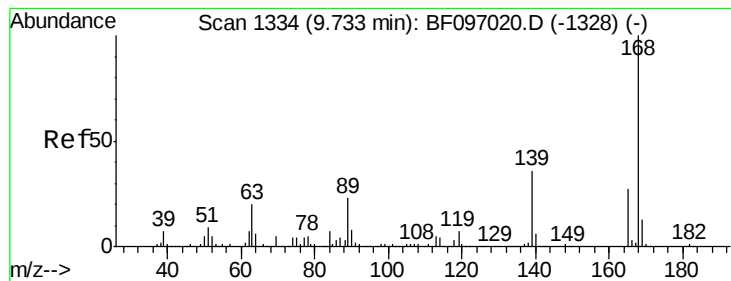
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.3	51.5#
89	1.1	37.1	55.7#



#55
4-Nitrophenol
Concen: 4.31 ng
RT: 9.73 min Scan# 1334
Delta R.T. 0.05 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	3.3	31.4	71.4#





#56

2,4-Dinitrotoluene

Concen: 7.09 ng

RT: 9.53 min Scan# 1299

Delta R.T. -0.21 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

Tot Ion:165 Resp: 26263

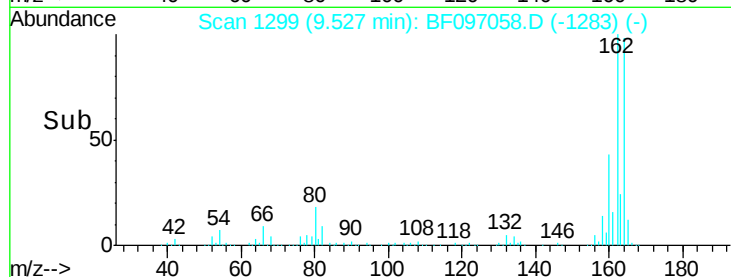
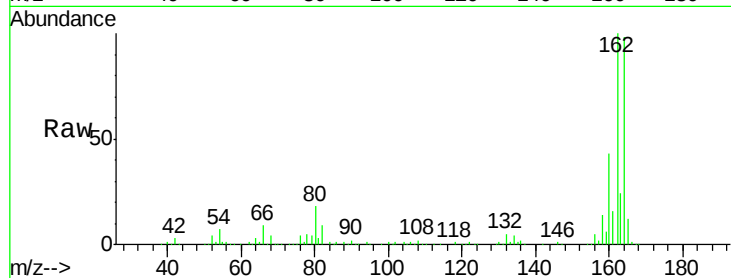
Ion Ratio Lower Upper

165 100

63 1.6 25.4 38.0#

89 1.1 46.4 69.6#

182 0.0 1.8 2.6#

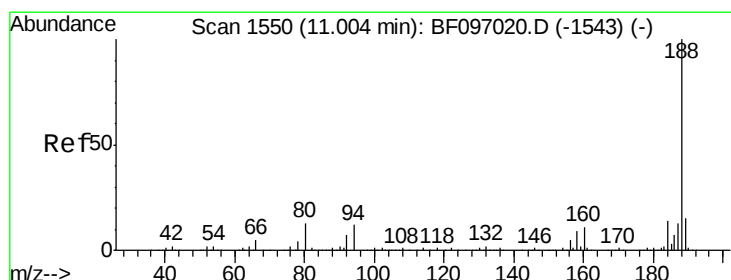
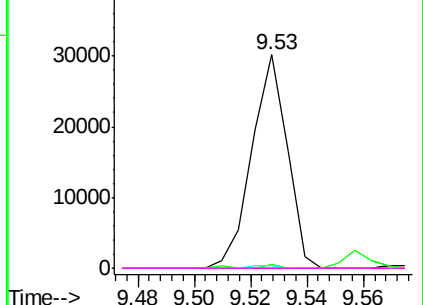


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.00 min Scan# 1549

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

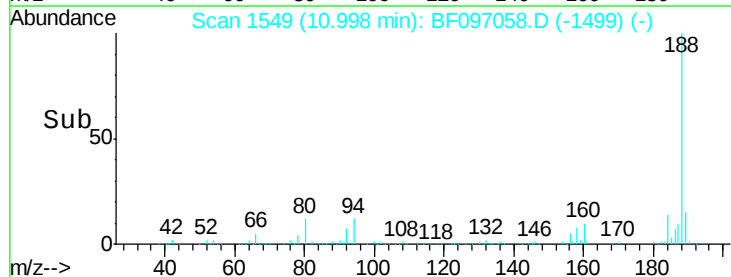
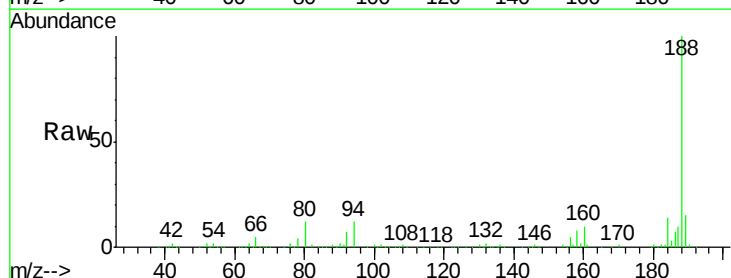
Tgt Ion:188 Resp: 294849

Ion Ratio Lower Upper

188 100

94 11.5 9.4 14.2

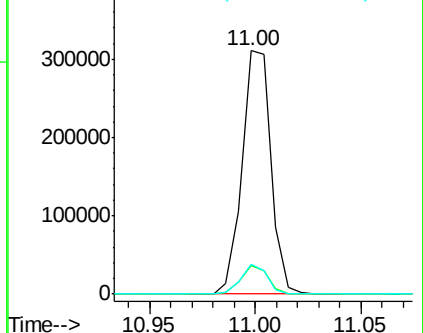
80 12.1 10.2 15.2

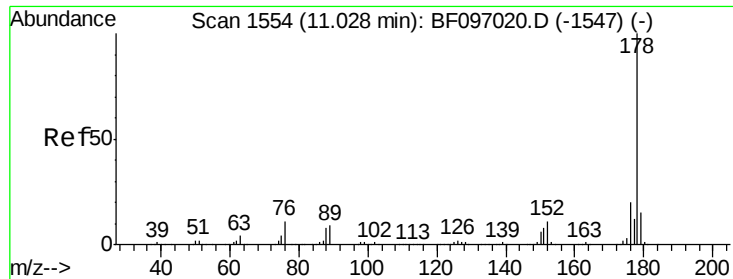


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

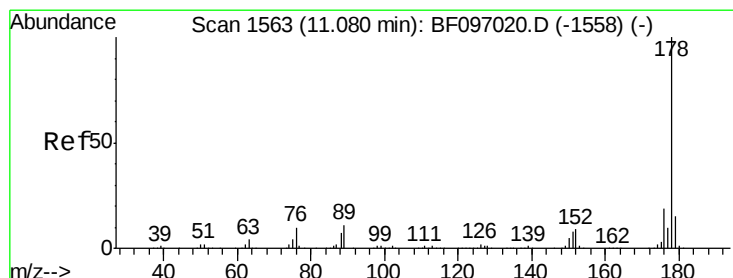
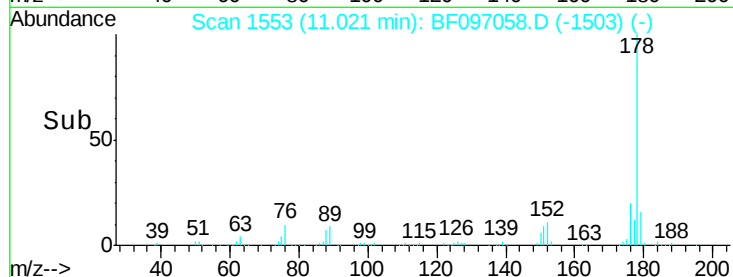
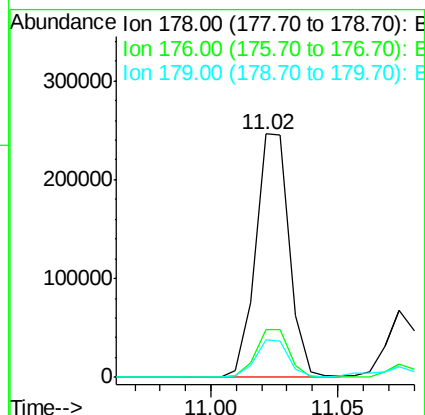
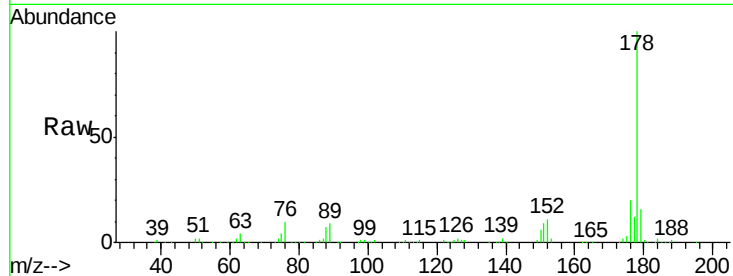




#70
Phenanthrene
Concen: 14.44 ng
RT: 11.02 min Scan# 1553
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

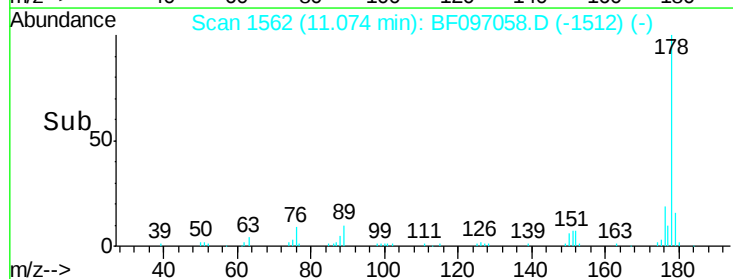
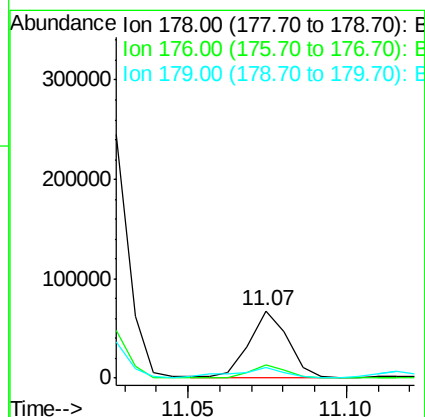
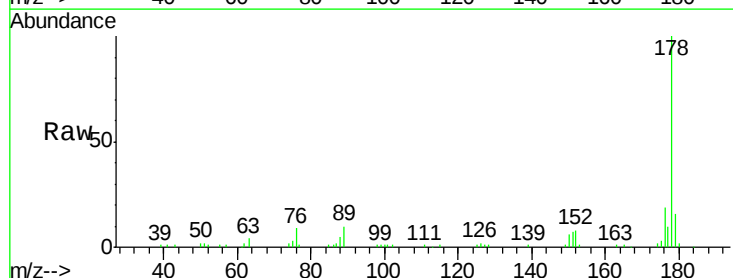
Instrument :
BNA_F
ClientSampleId :
E2-M5-WSW

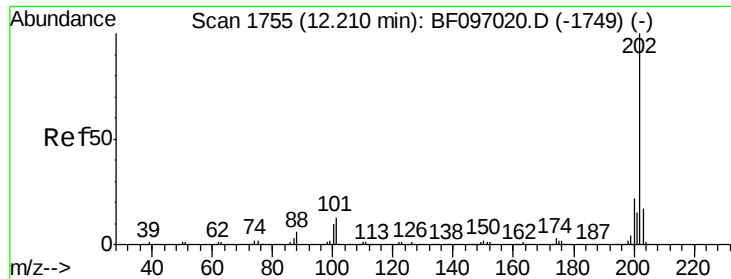
Tot Ion:178 Resp: 228151
Ion Ratio Lower Upper
178 100
176 19.7 16.2 24.4
179 15.5 12.6 19.0



#71
Anthracene
Concen: 3.50 ng
RT: 11.07 min Scan# 1562
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion:178 Resp: 56606
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.7 12.7 19.1





#74

Fluoranthene

Concen: 14.45 ng

RT: 12.20 min Scan# 1754

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

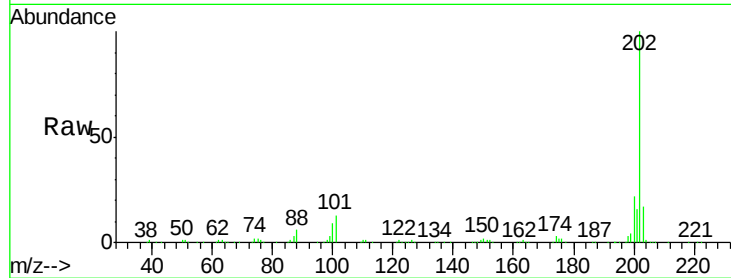
Tot Ion:202 Resp: 223585

Ion Ratio Lower Upper

202 100

101 13.1 0.0 33.2

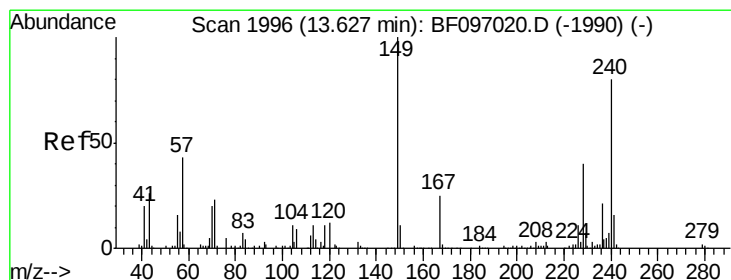
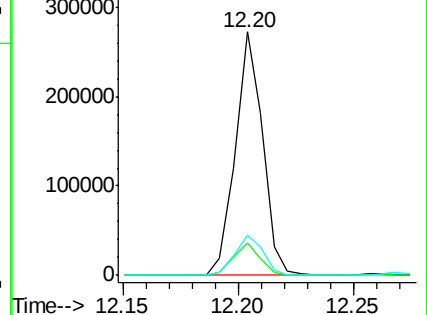
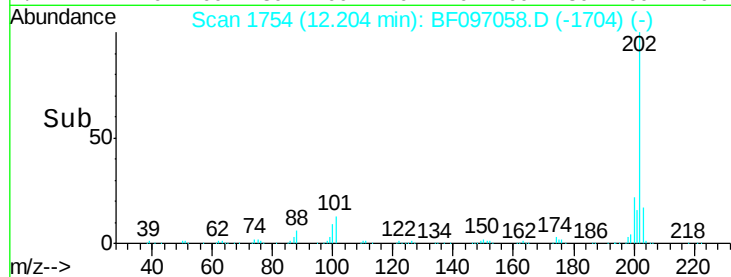
203 16.5 0.0 38.1



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# 1995

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

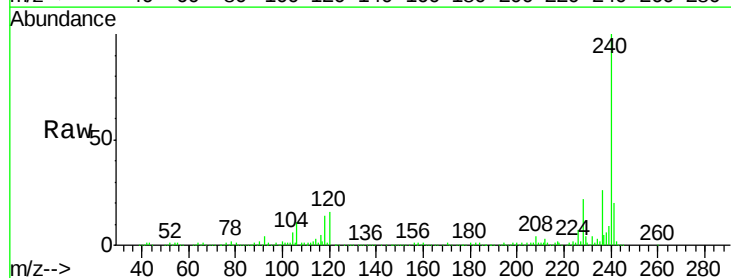
Tgt Ion:240 Resp: 226274

Ion Ratio Lower Upper

240 100

120 16.3 5.8 8.8#

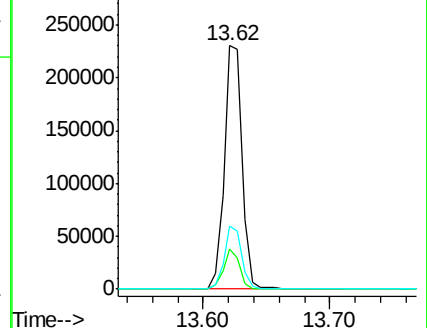
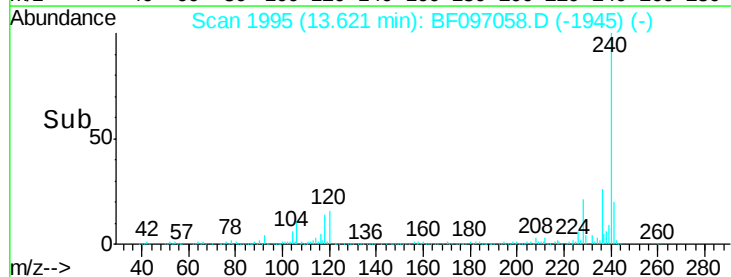
236 26.1 20.5 30.7

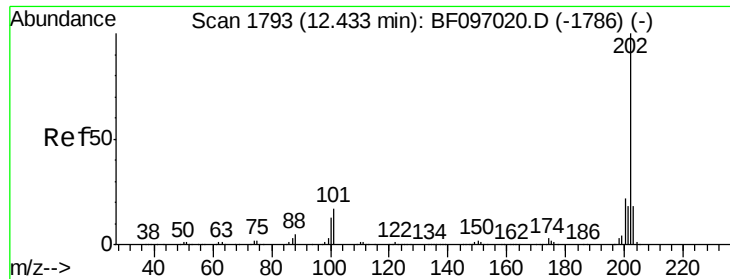


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 10.58 ng

RT: 12.43 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

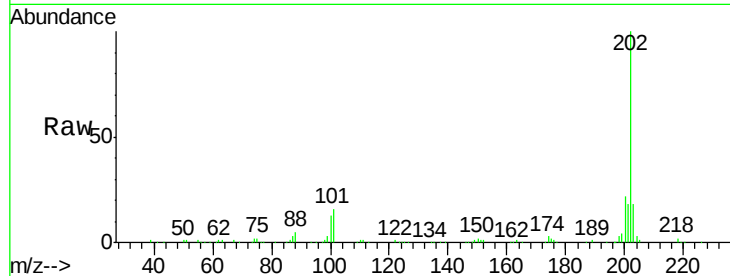
Tot Ion:202 Resp: 196010

Ion Ratio Lower Upper

202 100

200 21.6 17.6 26.4

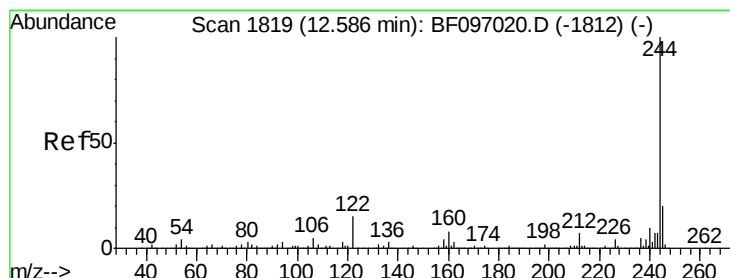
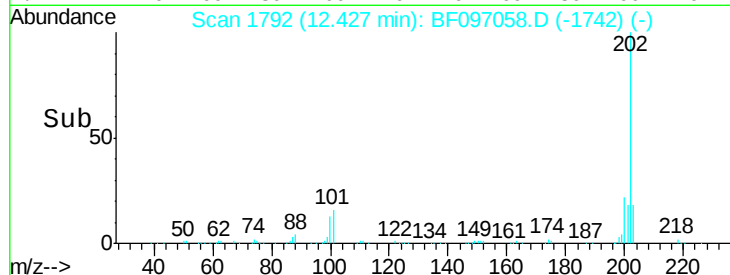
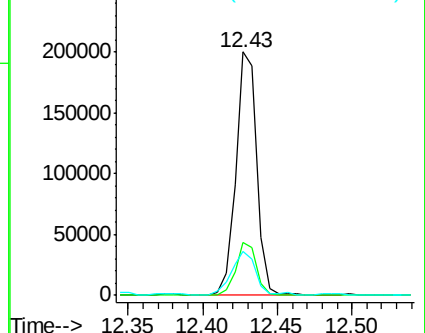
203 18.2 14.4 21.6



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: 8.30 ng

RT: 12.58 min Scan# 1818

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

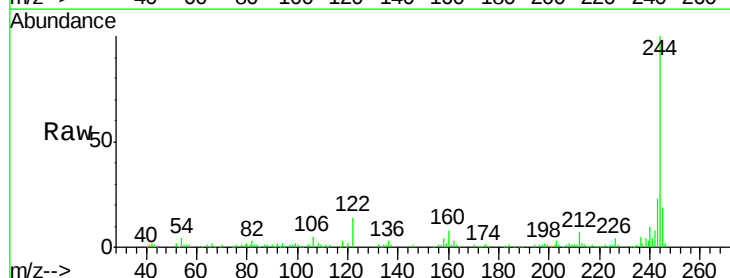
Tgt Ion:244 Resp: 92078

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

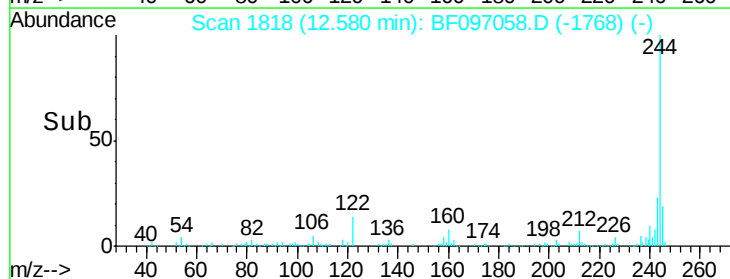
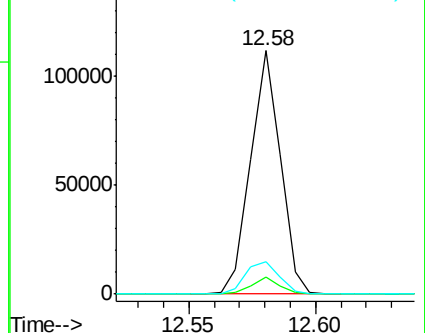
122 13.6 10.3 15.5

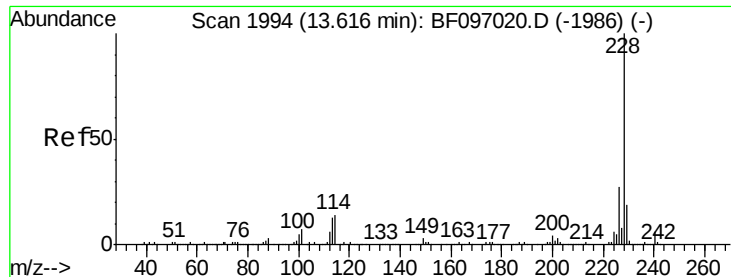


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 6.77 ng

RT: 13.62 min Scan# 1994

Delta R.T. -0.00 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

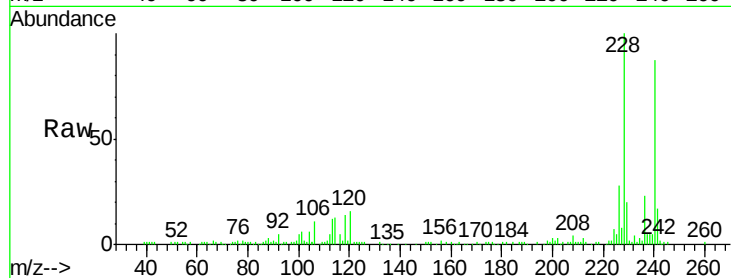
Tot Ion:228 Resp: 99150

Ion Ratio Lower Upper

228 100

226 28.5 22.6 33.8

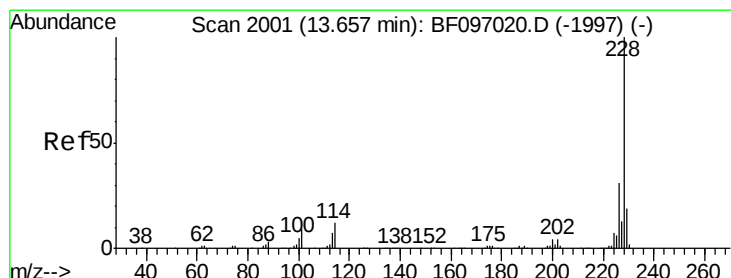
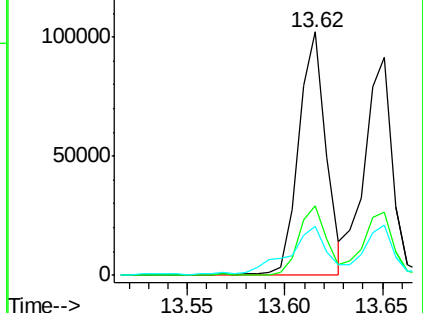
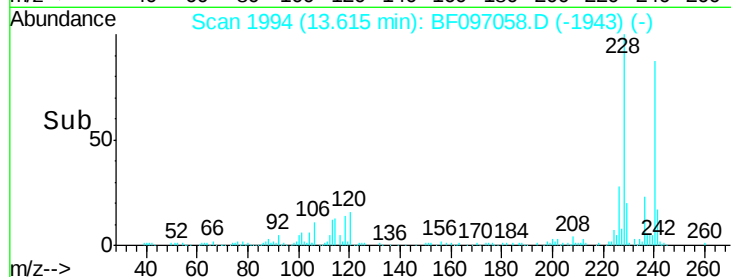
229 20.2 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 6.45 ng

RT: 13.65 min Scan# 2000

Delta R.T. -0.01 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

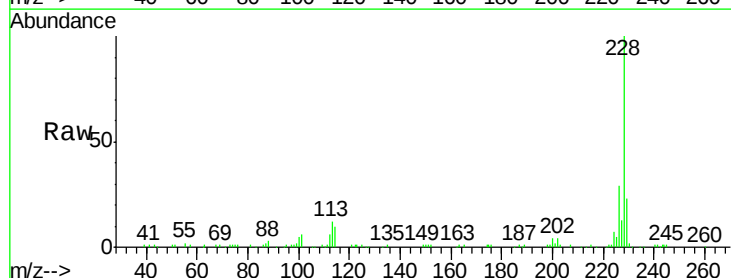
Tgt Ion:228 Resp: 92161

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

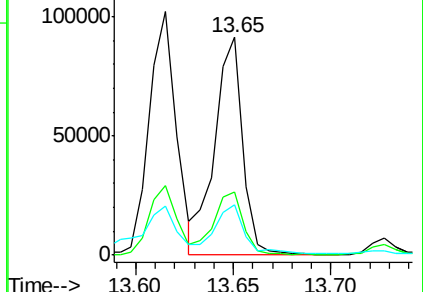
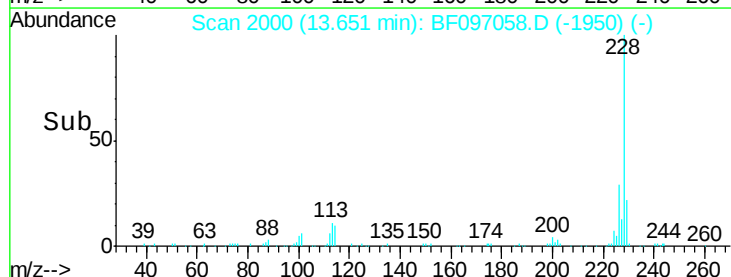
229 23.1 15.8 23.6

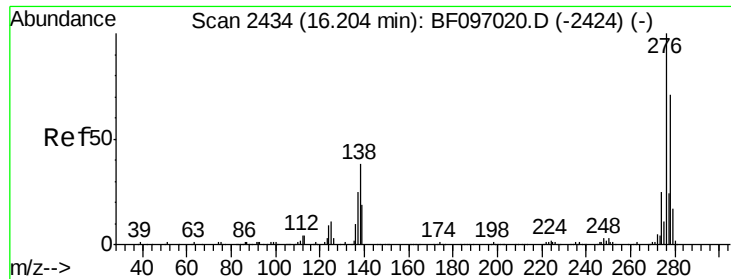


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

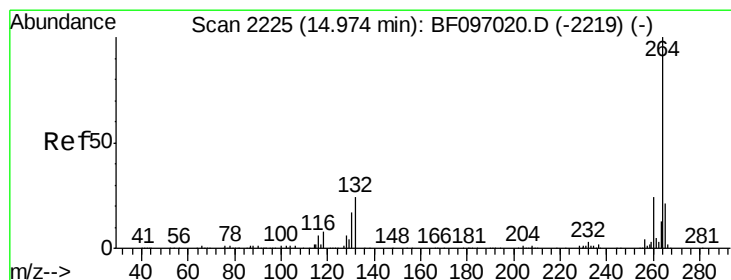
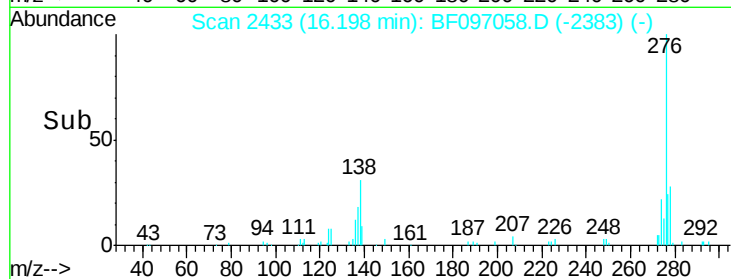
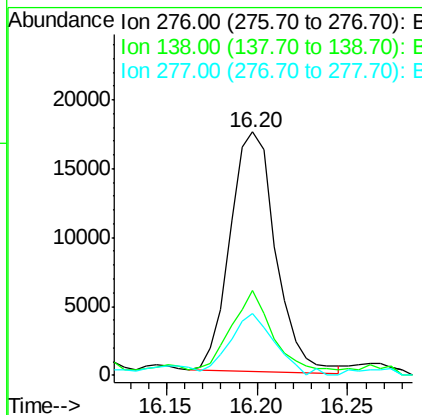
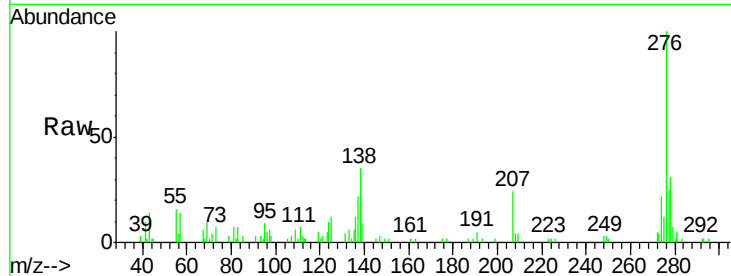




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.47 ng
 RT: 16.20 min Scan# 2433
 Delta R.T. -0.01 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

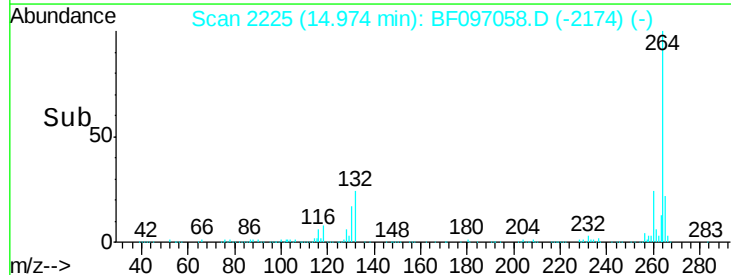
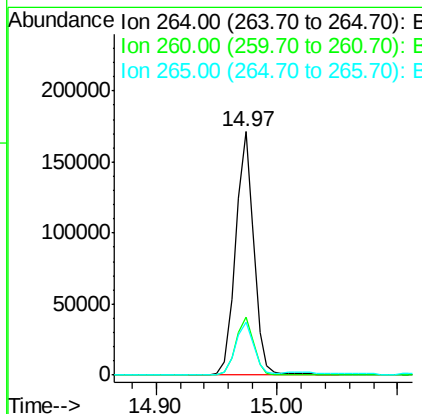
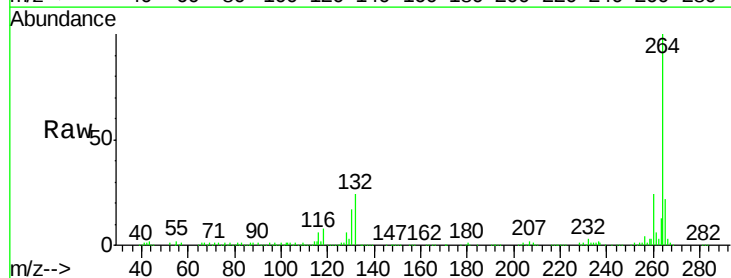
Instrument :
 BNA_F
 ClientSampleId :
 E2-M5-WSW

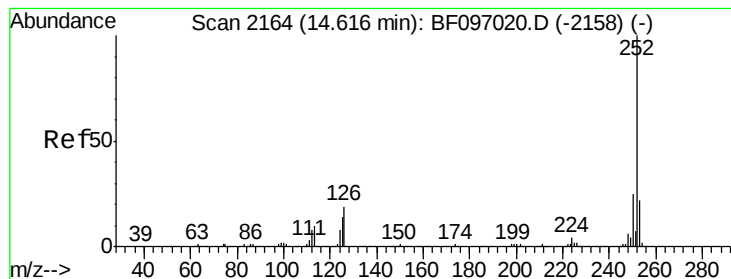
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.3	27.8	41.6
277	25.6	20.2	30.4



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.97 min Scan# 2225
 Delta R.T. -0.00 min
 Lab File: BF097058.D
 Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	21.9	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 11.03 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.00 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

Instrument :

BNA_F

ClientSampleId :

E2-M5-WSW

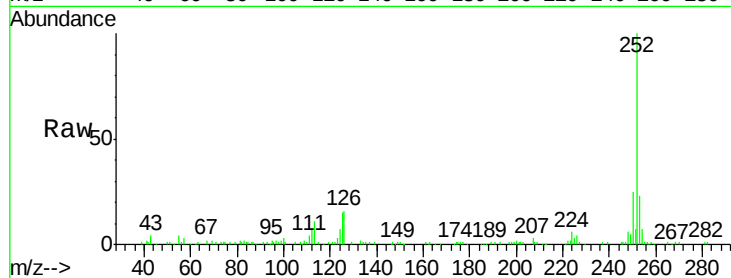
Tot Ion:252 Resp: 120341

Ion Ratio Lower Upper

252 100

253 22.6 18.1 27.1

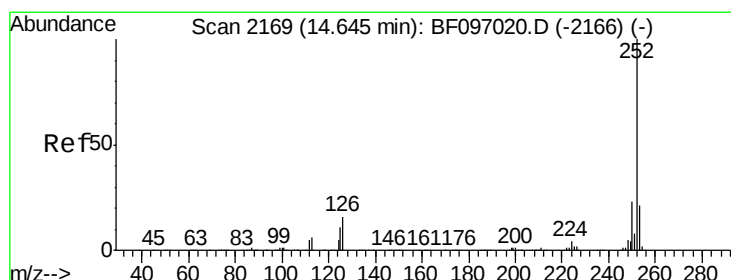
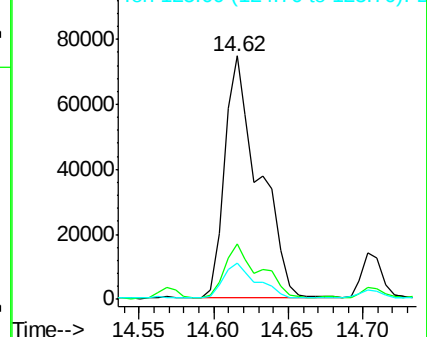
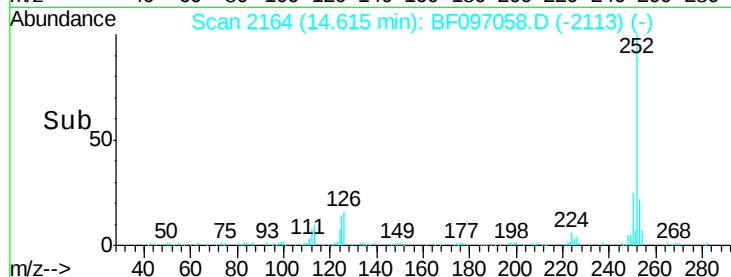
125 14.8 9.8 14.8#



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: 11.58 ng

RT: 14.62 min Scan# 2164

Delta R.T. -0.03 min

Lab File: BF097058.D

Acq: 26 Jul 2017 5:39

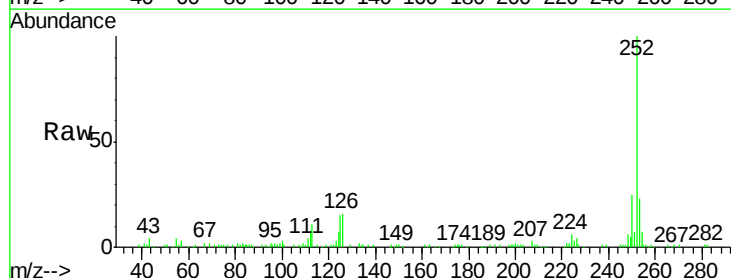
Tgt Ion:252 Resp: 120341

Ion Ratio Lower Upper

252 100

253 22.6 18.4 27.6

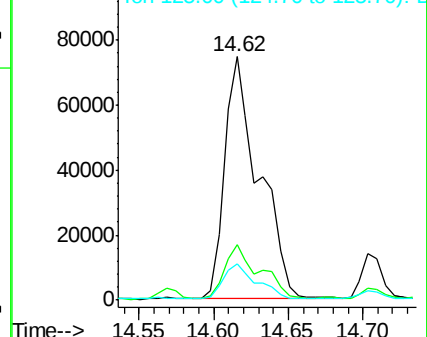
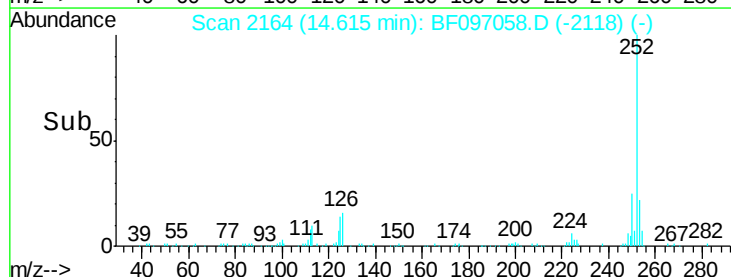
125 14.8 13.1 19.7

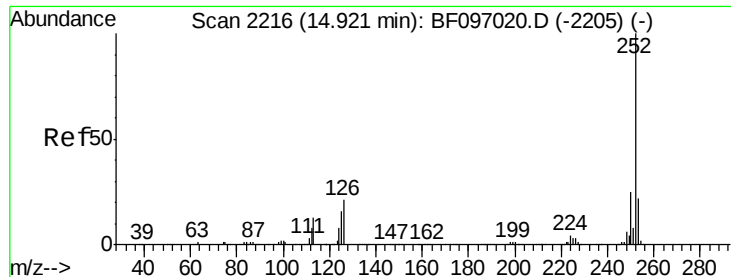


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

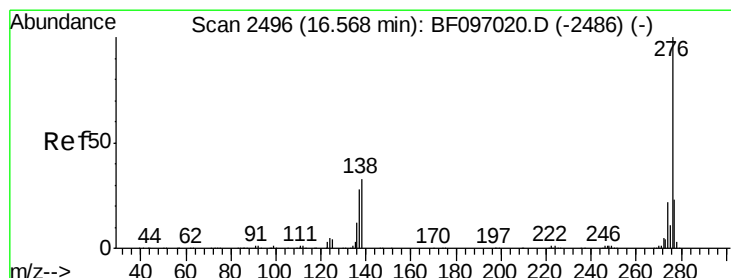
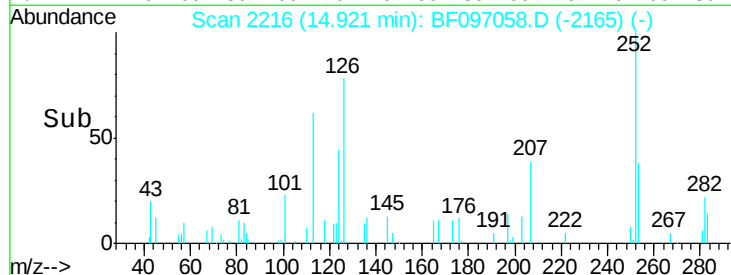
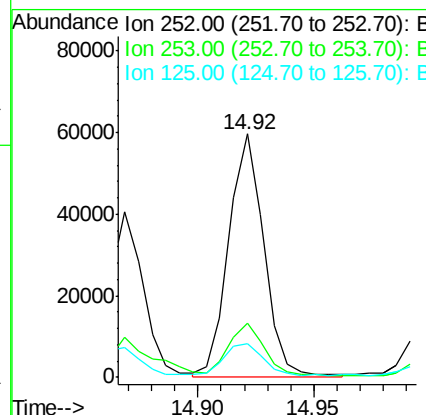
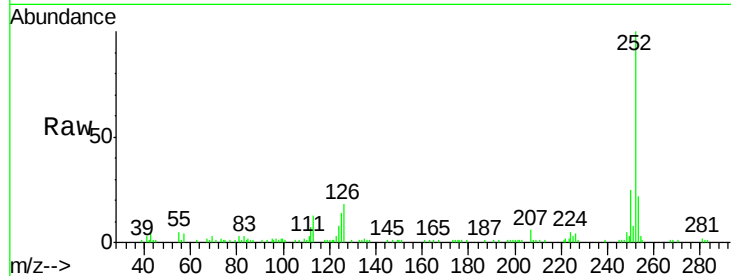




#89
Benzo(a)pyrene
Concen: 6.39 ng
RT: 14.92 min Scan# 2216
Delta R.T. -0.00 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Instrument :
BNA_F
ClientSampleId :
E2-M5-WSW

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.5	17.5	26.3
125	13.8	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 3.18 ng
RT: 16.56 min Scan# 2495
Delta R.T. -0.01 min
Lab File: BF097058.D
Acq: 26 Jul 2017 5:39

Tgt Ion	Ratio	Lower	Upper
276	100		
277	26.0	18.6	28.0
138	28.9	25.4	38.0

