

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
 Data File : BF097409.D
 Acq On : 5 Aug 2017 20:47
 Operator : SJ/JU
 Sample : I4613-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Aug 06 01:12:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

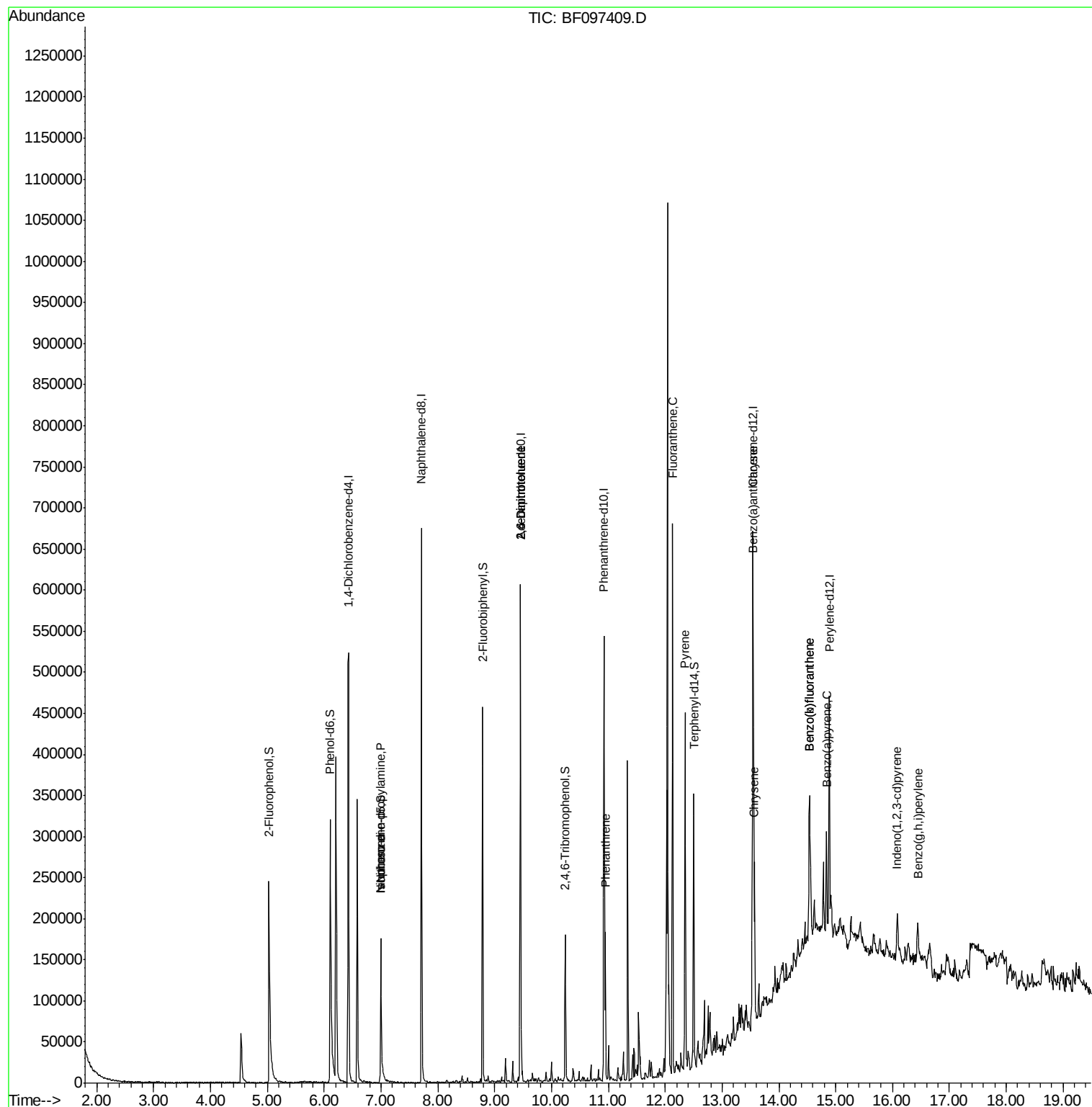
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.43	152	88166	20.00	ng	-0.07
21) Naphthalene-d8	7.71	136	303074	20.00	ng	-0.08
38) Acenaphthene-d10	9.45	164	107933	20.00	ng	-0.08
63) Phenanthrene-d10	10.92	188	179826	20.00	ng	-0.08
75) Chrysene-d12	13.54	240	171758	20.00	ng	-0.08
86) Perylene-d12	14.89	264	110176	20.00	ng	-0.09
System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	119709	20.47	ng	-0.07
7) Phenol-d6	6.10	99	158497	23.74	ng	-0.06
23) Nitrobenzene-d5	7.00	82	69083	13.37	ng	-0.08
41) 2,4,6-Tribromophenol	10.24	330	18232	21.38	ng	-0.08
44) 2-Fluorobiphenyl	8.79	172	136233	21.42	ng	-0.08
78) Terphenyl-d14	12.50	244	98952	11.75	ng	-0.08
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.00	70	9221	2.10	ng	# 87
25) Isophorone	7.00	82	69082	6.83	ng	# 67
50) 2,6-Dinitrotoluene	9.45	165	14142	8.14	ng	# 35
56) 2,4-Dinitrotoluene	9.45	165	14142	7.08	ng	# 34
70) Phenanthrene	10.95	178	65140	6.76	ng	99
74) Fluoranthene	12.13	202	172795	18.31	ng	97
77) Pyrene	12.35	202	164830	11.72	ng	98
80) Benzo(a)anthracene	13.53	228	79851	7.19	ng	98
82) Chrysene	13.57	228	74600	6.87	ng	98
85) Indeno(1,2,3-cd)pyrene	16.09	276	28642	3.08	ng	95
87) Benzo(b)fluoranthene	14.54	252	100494	15.17	ng	# 93
88) Benzo(k)fluoranthene	14.54	252	100494	15.92	ng	97
89) Benzo(a)pyrene	14.84	252	50603	8.35	ng	# 92
91) Benzo(a,h,i)perylene	16.44	276	30118	5.78	ng	# 93

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
Data File : BF097409.D
Acq On : 5 Aug 2017 20:47
Operator : SJ/JU
Sample : I4613-01 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: Aug 06 01:12:07 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 01:17:22 2017
Response via : Initial Calibration



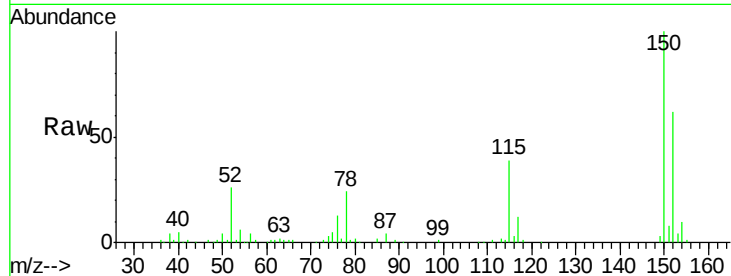


#1

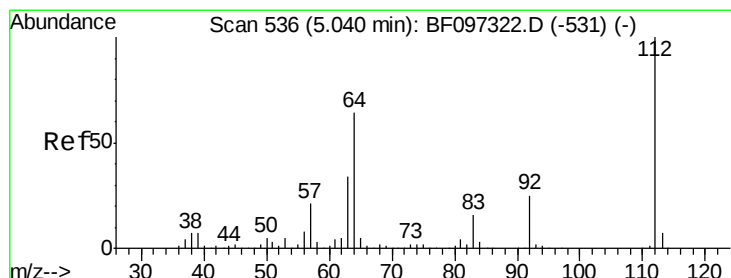
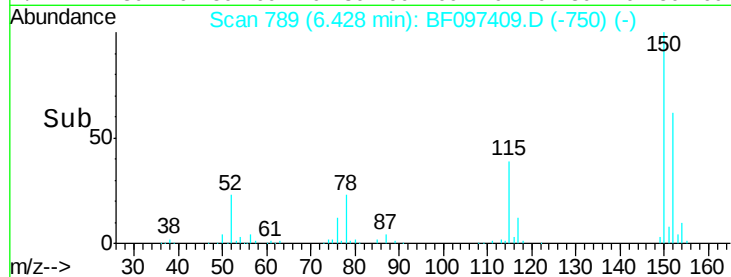
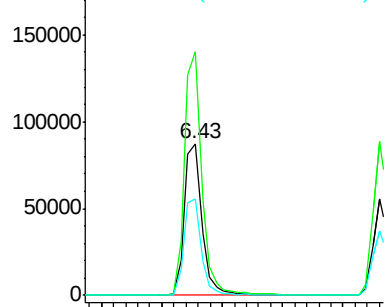
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.43 min Scan# 789
 Delta R.T. -0.07 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 88166
 Ion Ratio Lower Upper
 152 100
 150 160.5 126.2 189.2
 115 63.2 52.2 78.2



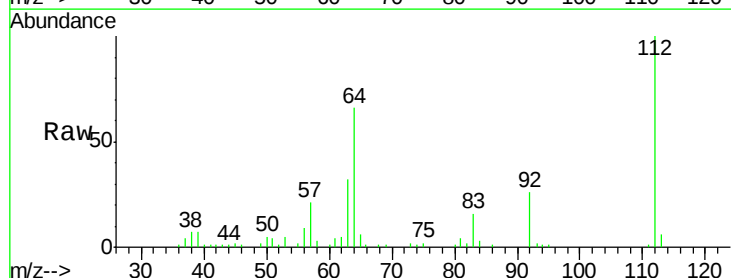
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



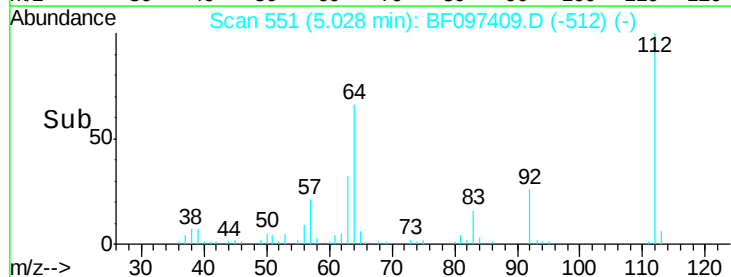
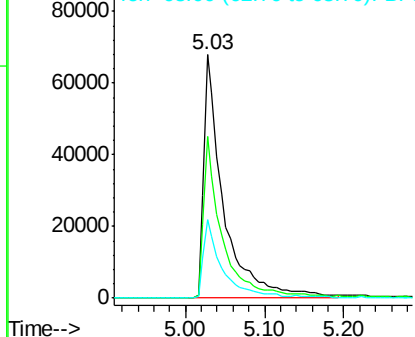
#5

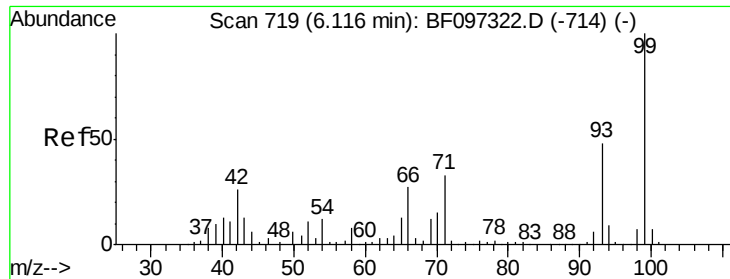
2-Fluorophenol
 Concen: 20.47 ng
 RT: 5.03 min Scan# 551
 Delta R.T. -0.07 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Tgt Ion:112 Resp: 119709
 Ion Ratio Lower Upper
 112 100
 64 66.3 46.0 69.0
 63 32.3 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: 23.74 ng

RT: 6.10 min Scan# 734

Delta R.T. -0.06 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

Instrument :

BNA_F

ClientSampled :

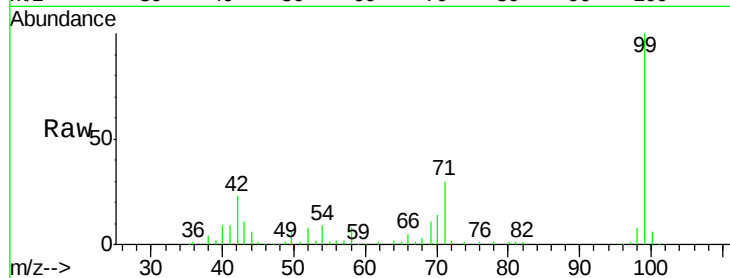
Tot Ion: 99 Resp: 158497

Ion Ratio Lower Upper

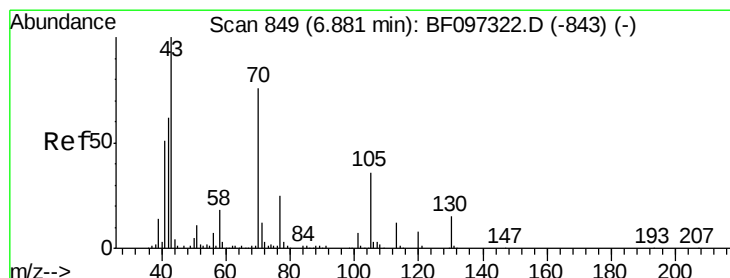
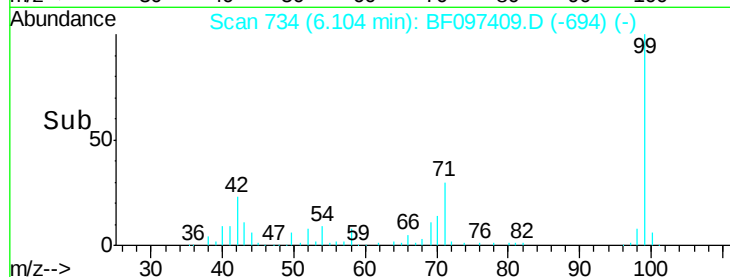
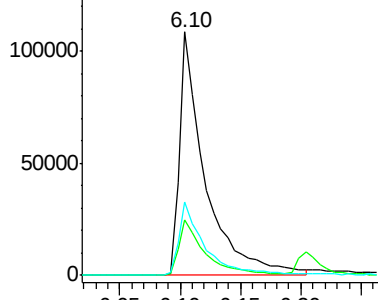
99 100

42 22.7 13.5 20.3#

71 30.0 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



#19

n-Nitroso-di-n-propylamine

Concen: 2.10 ng

RT: 7.00 min Scan# 886

Delta R.T. 0.06 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

Tgt Ion: 70 Resp: 9221

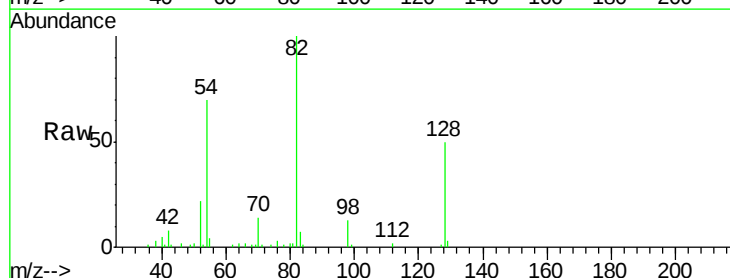
Ion Ratio Lower Upper

70 100

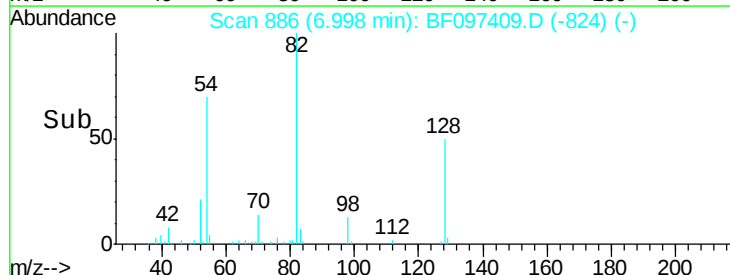
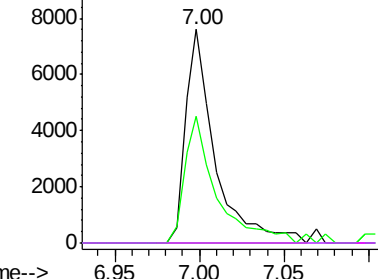
42 59.2 47.2 70.8

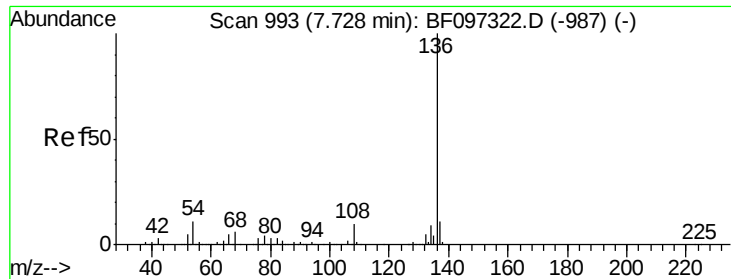
101 0.0 7.2 10.8#

130 0.0 15.9 23.9#



Abundance Ion 70.00 (69.70 to 70.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 101.00 (100.70 to 101.70): BF0
Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.71 min Scan# 1007

Delta R.T. -0.08 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 303074

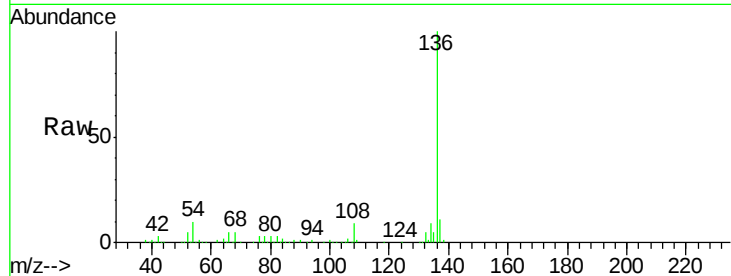
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 9.8 4.9 7.3#

68 5.0 4.1 6.1

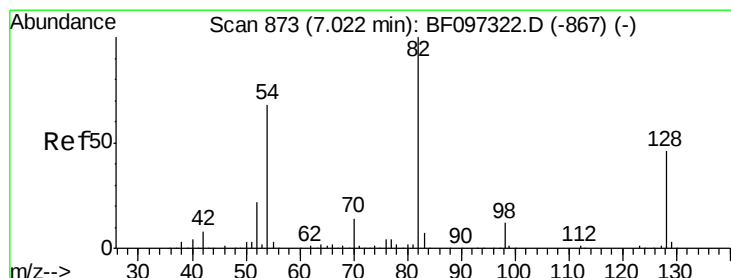
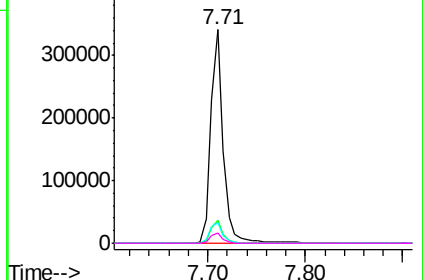
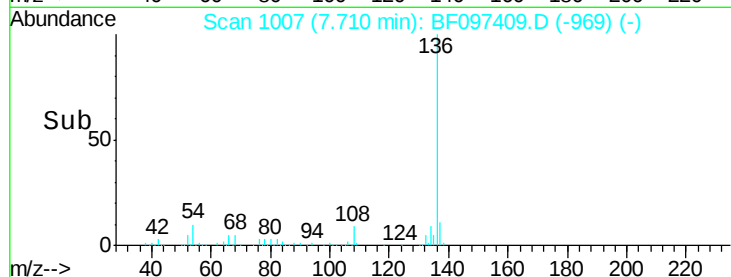


Abundance Ion 136.00 (135.70 to 136.70): E

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: 13.37 ng

RT: 7.00 min Scan# 886

Delta R.T. -0.08 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

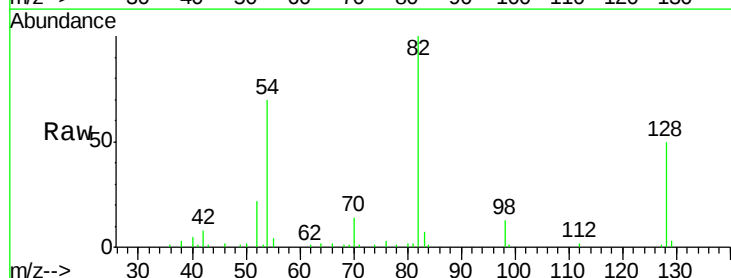
Tgt Ion: 82 Resp: 69083

Ion Ratio Lower Upper

82 100

128 49.6 34.0 51.0

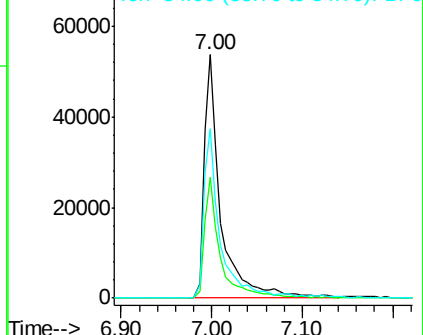
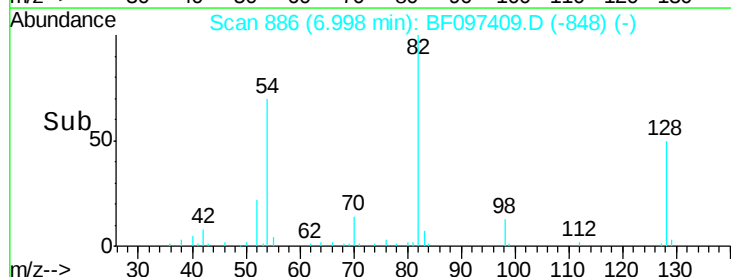
54 69.5 42.2 63.2#

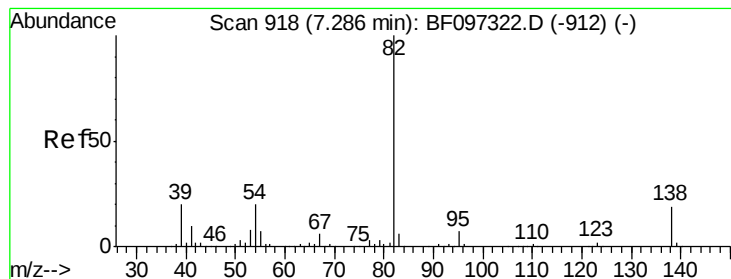


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 6.83 ng

RT: 7.00 min Scan# 886

Delta R.T. -0.34 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

Instrument :

BNA_F

ClientSampled :

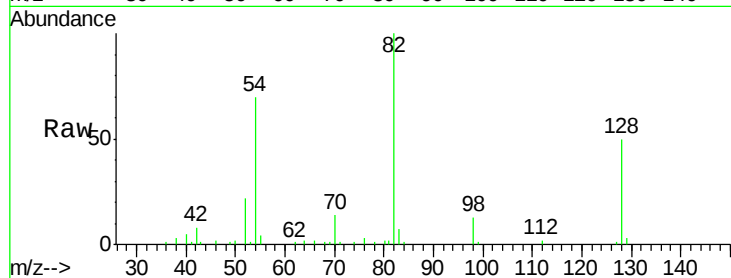
Tot Ion: 82 Resp: 69082

Ion Ratio Lower Upper

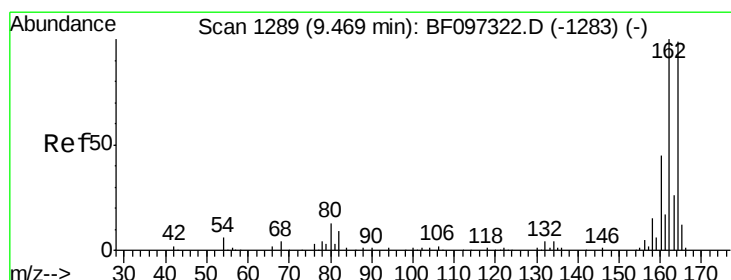
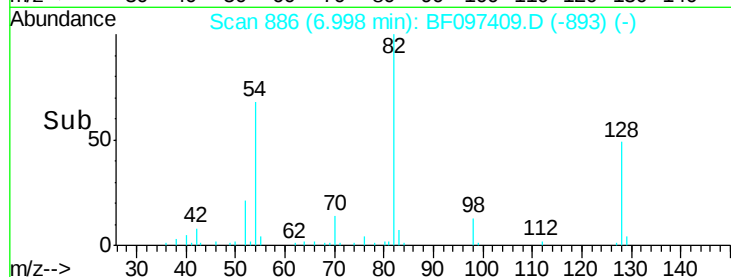
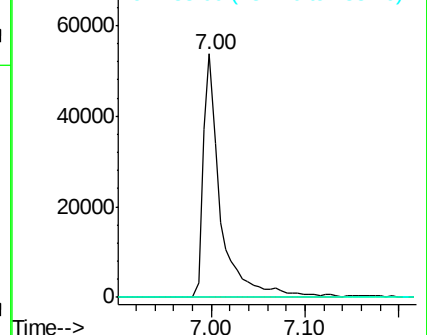
82 100

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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.45 min Scan# 1303

Delta R.T. -0.08 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

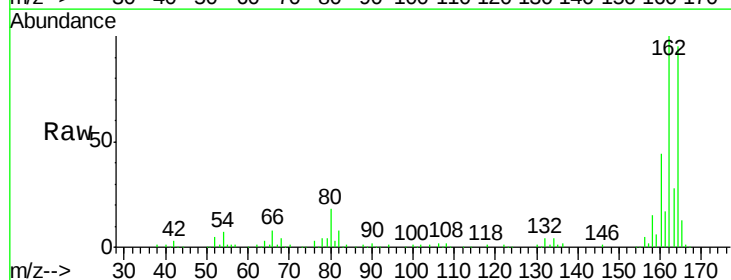
Tgt Ion:164 Resp: 107933

Ion Ratio Lower Upper

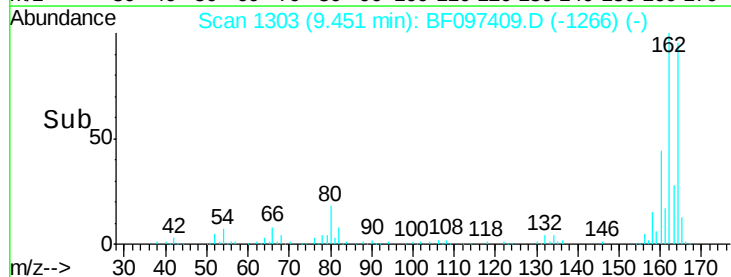
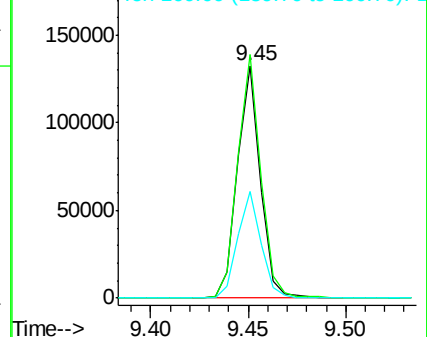
164 100

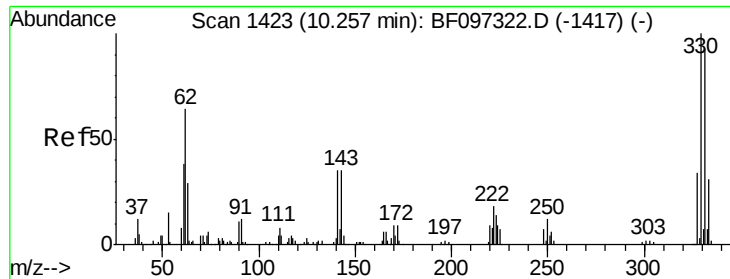
162 104.9 82.6 123.8

160 46.2 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

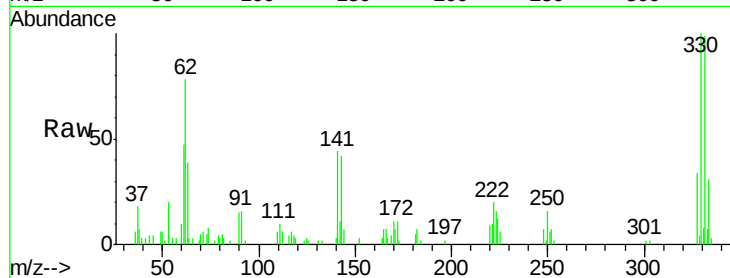




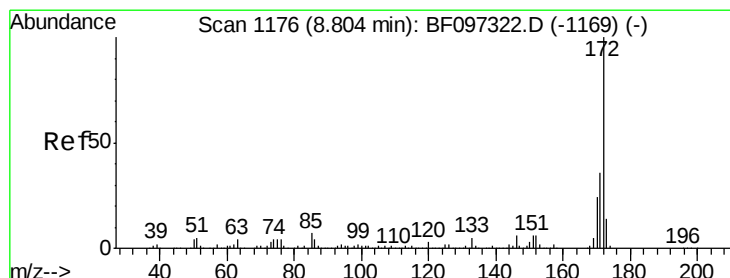
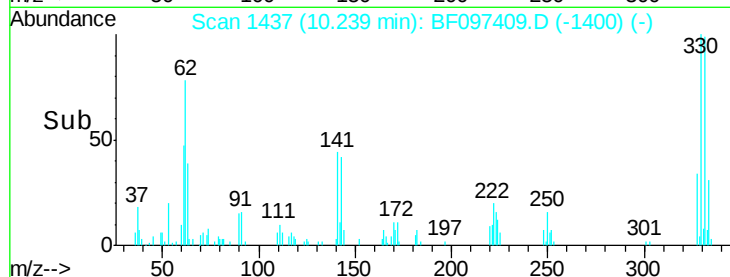
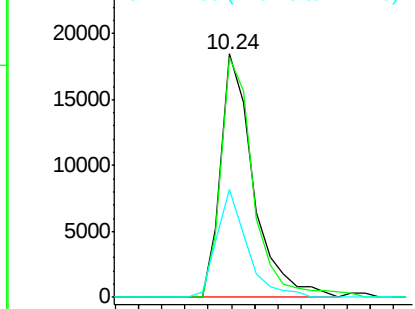
#41
 2,4,6-Tribromophenol
 Concen: 21.38 ng
 RT: 10.24 min Scan# 1437
 Delta R.T. -0.08 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Instrument :
 BNA_F
 ClientSampled :

Tot Ion:330 Resp: 18232
 Ion Ratio Lower Upper
 330 100
 332 97.7 76.6 115.0
 141 40.7 31.4 47.2

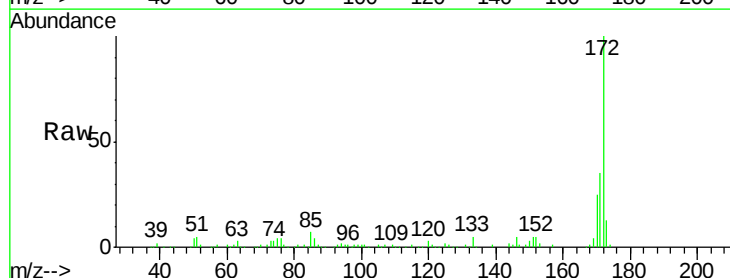


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

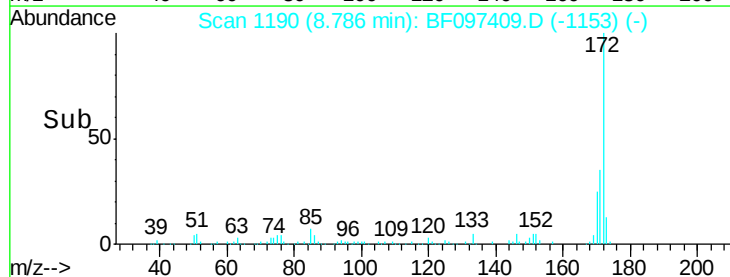
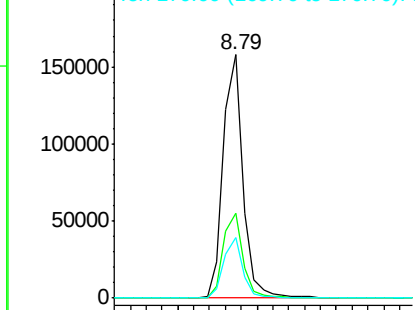


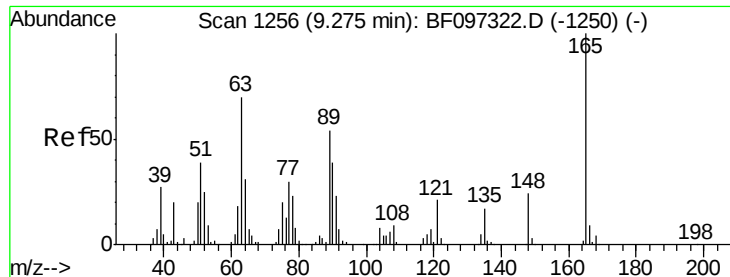
#44
 2-Fluorobiphenyl
 Concen: 21.42 ng
 RT: 8.79 min Scan# 1190
 Delta R.T. -0.08 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Tgt Ion:172 Resp: 136233
 Ion Ratio Lower Upper
 172 100
 171 35.0 29.6 44.4
 170 24.7 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

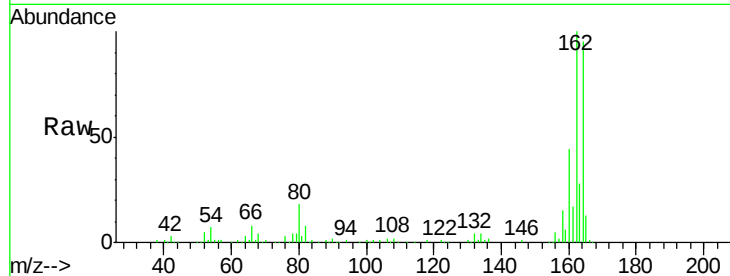




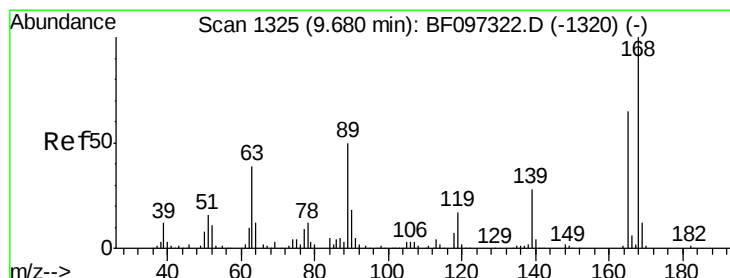
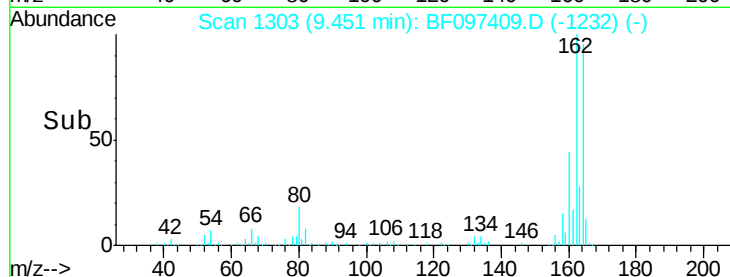
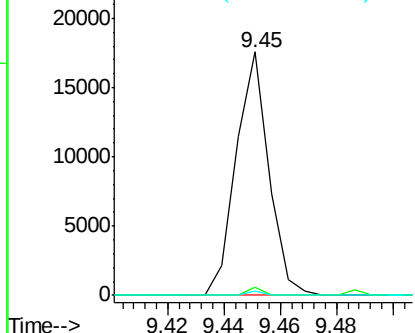
#50
 2,6-Dinitrotoluene
 Concen: 8.14 ng
 RT: 9.45 min Scan# 1303
 Delta R.T. 0.12 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	3.2	34.3	51.5#
89	1.9	37.1	55.7#



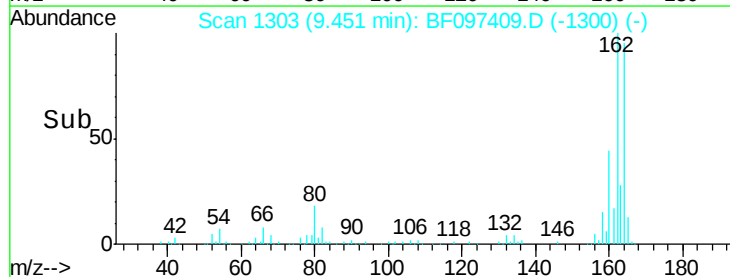
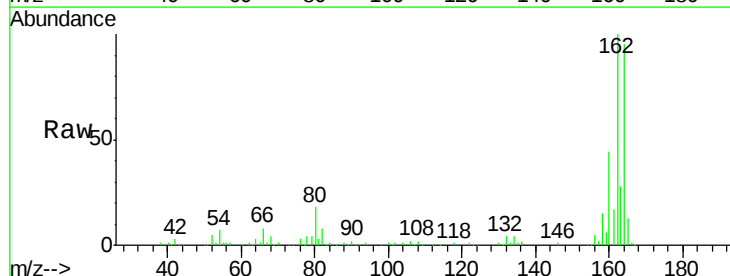
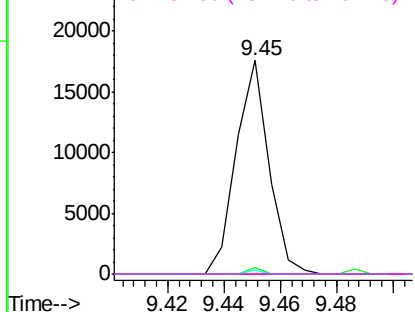
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

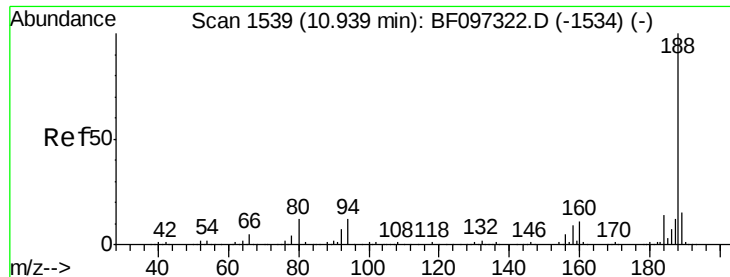


#56
 2,4-Dinitrotoluene
 Concen: 7.08 ng
 RT: 9.45 min Scan# 1303
 Delta R.T. -0.28 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Tgt Ion	Ratio	Lower	Upper
165	100		
63	3.2	25.4	38.0#
89	1.9	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

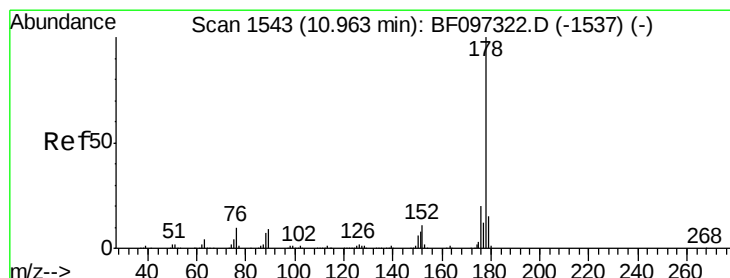
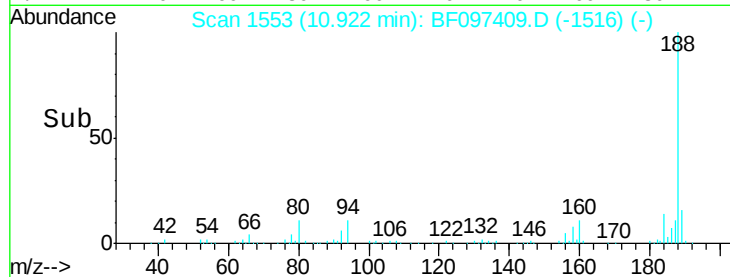
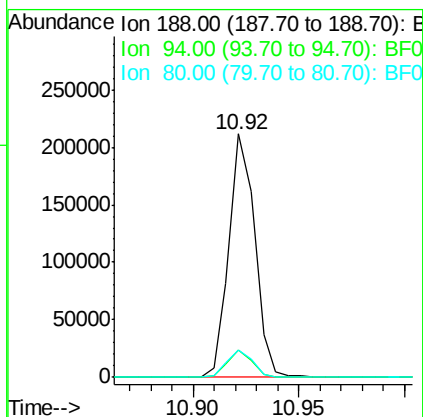
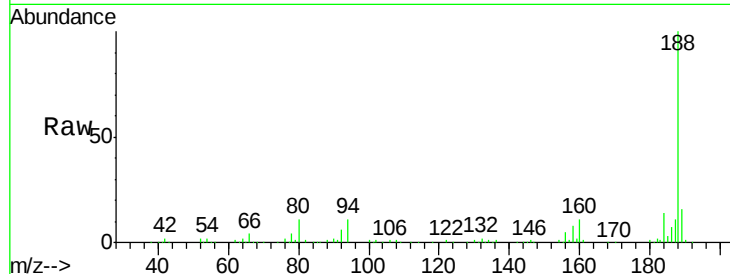




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 10.92 min Scan# 1553
Delta R.T. -0.08 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

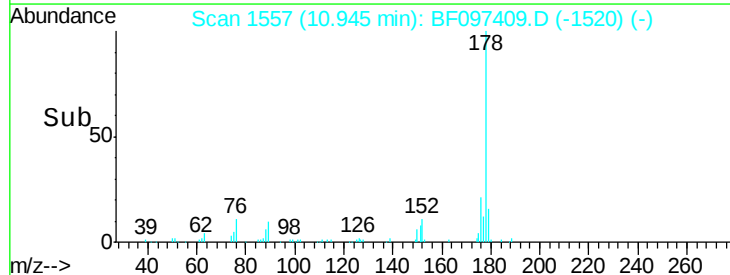
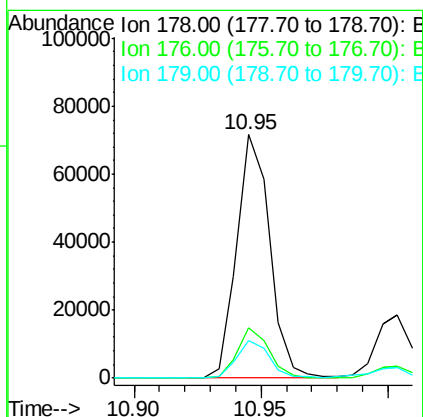
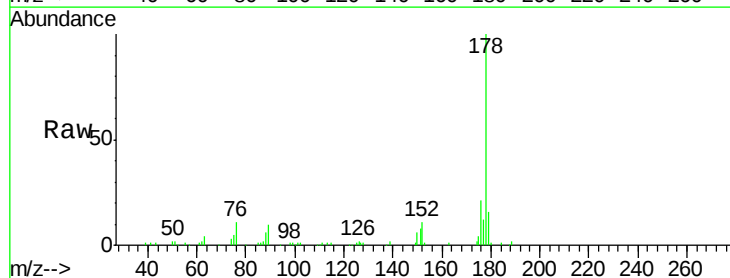
Instrument :
BNA_F
ClientSampleId :

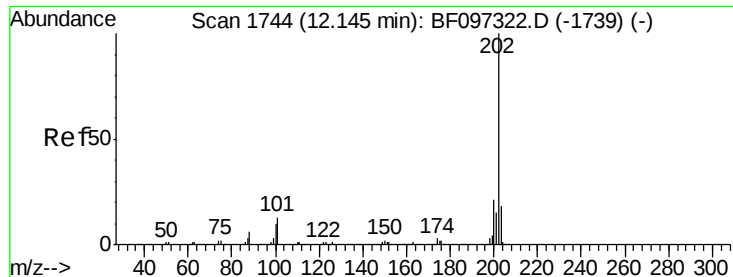
Tot Ion:188 Resp: 179826
Ion Ratio Lower Upper
188 100
94 11.5 9.4 14.2
80 11.5 10.2 15.2



#70
Phenanthrene
Concen: 6.76 ng
RT: 10.95 min Scan# 1557
Delta R.T. -0.08 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

Tgt Ion:178 Resp: 65140
Ion Ratio Lower Upper
178 100
176 20.9 16.2 24.4
179 15.7 12.6 19.0





#74

Fluoranthene

Concen: 18.31 ng

RT: 12.13 min Scan# 1758

Delta R.T. -0.08 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

Instrument :

BNA_F

ClientSampleId :

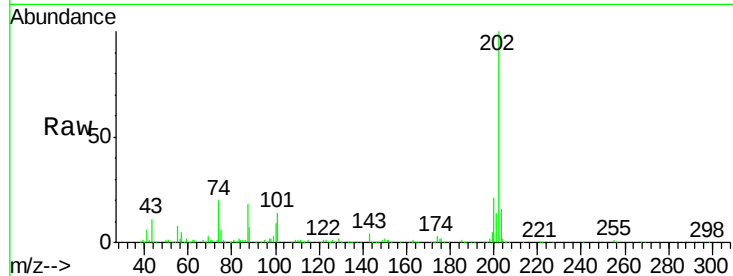
Tot Ion:202 Resp: 172795

Ion Ratio Lower Upper

202 100

101 13.8 0.0 33.2

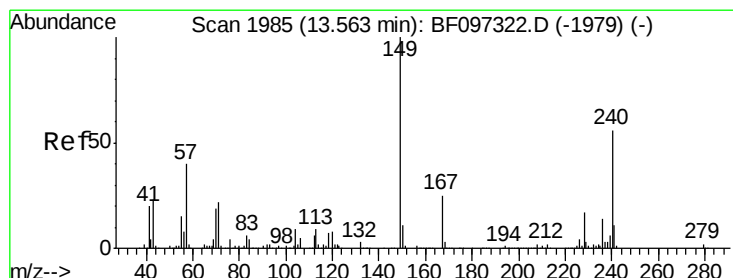
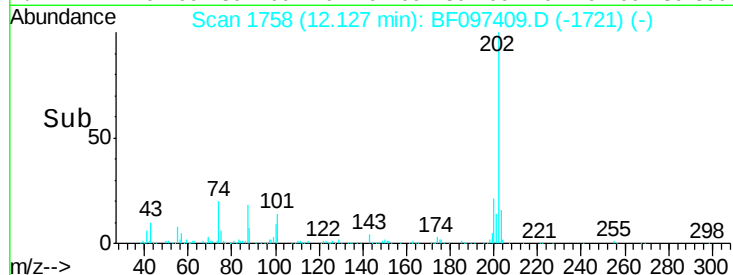
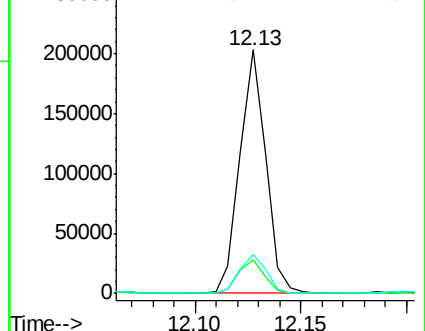
203 15.9 0.0 38.1



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: 13.54 min Scan# 1999

Delta R.T. -0.08 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

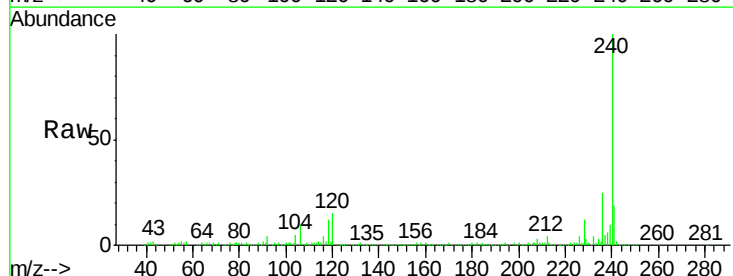
Tgt Ion:240 Resp: 171758

Ion Ratio Lower Upper

240 100

120 14.7 5.8 8.8#

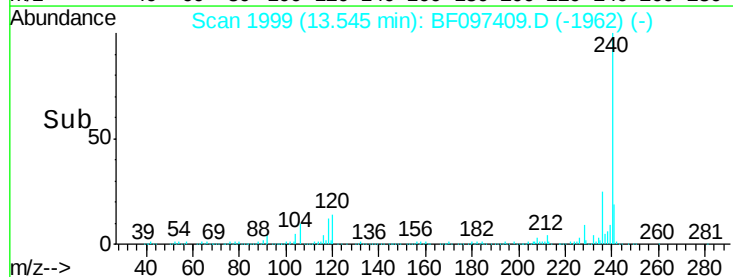
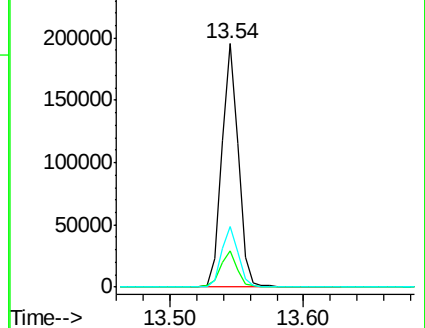
236 25.0 20.5 30.7

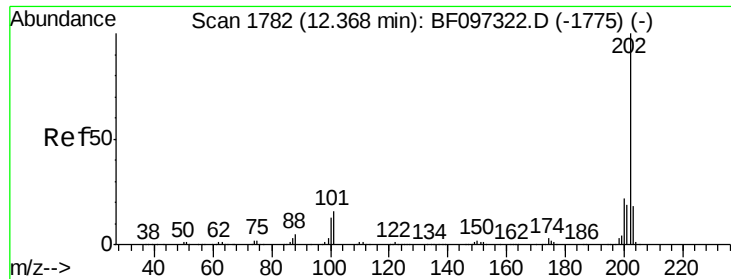


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

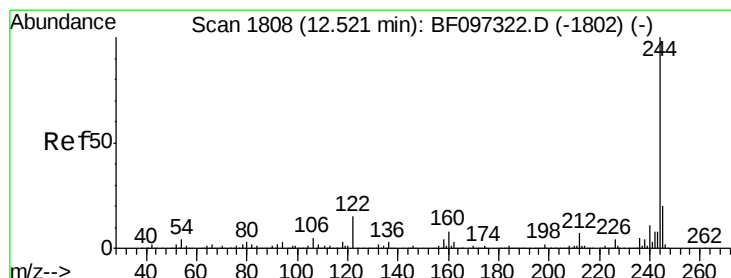
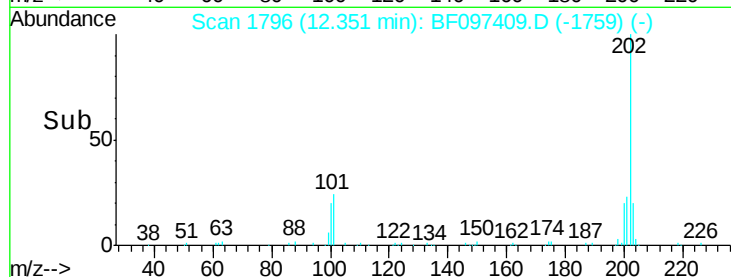
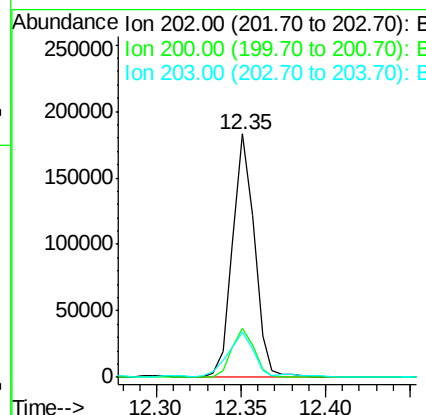
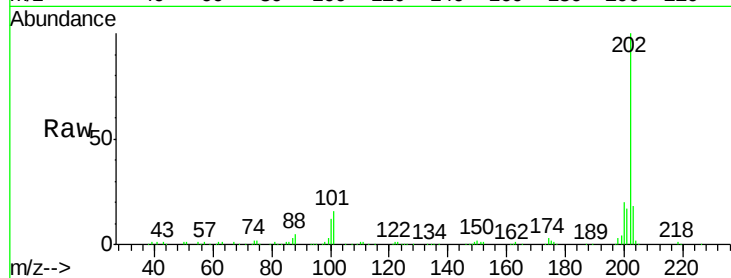




#77
Pvrene
Concen: 11.72 ng
RT: 12.35 min Scan# 1796
Delta R.T. -0.08 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

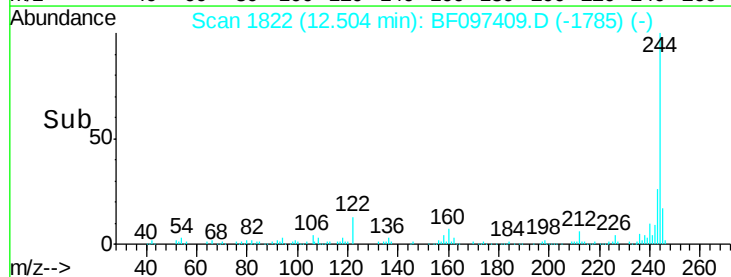
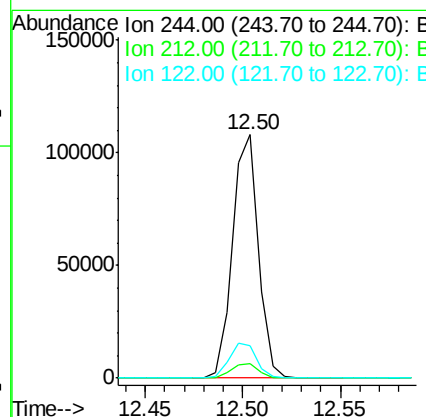
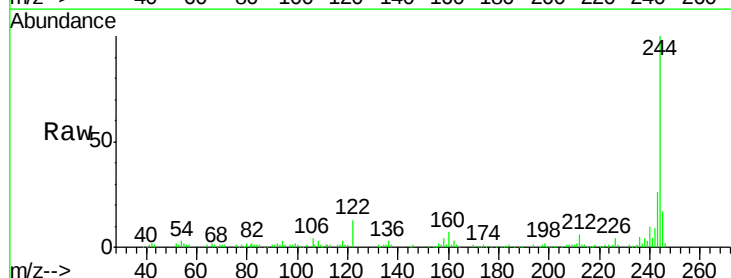
Instrument :
BNA_F
ClientSampleId :

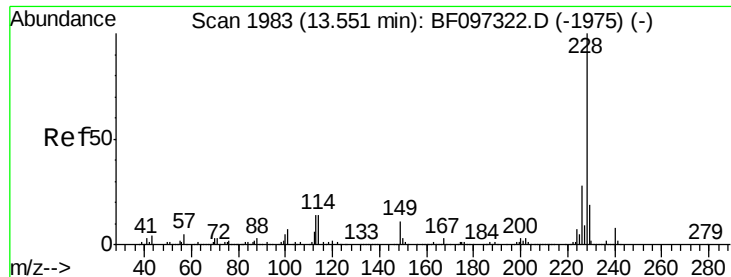
Tot Ion:202 Resp: 164830
Ion Ratio Lower Upper
202 100
200 20.3 17.6 26.4
203 18.4 14.4 21.6



#78
Terphenyl-d14
Concen: 11.75 ng
RT: 12.50 min Scan# 1822
Delta R.T. -0.08 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

Tgt Ion:244 Resp: 98952
Ion Ratio Lower Upper
244 100
212 6.1 6.0 9.0
122 13.1 10.3 15.5





#80

Benzo(a)anthracene

Concen: 7.19 ng

RT: 13.53 min Scan# 1997

Delta R.T. -0.08 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

Instrument :

BNA_F

ClientSampled :

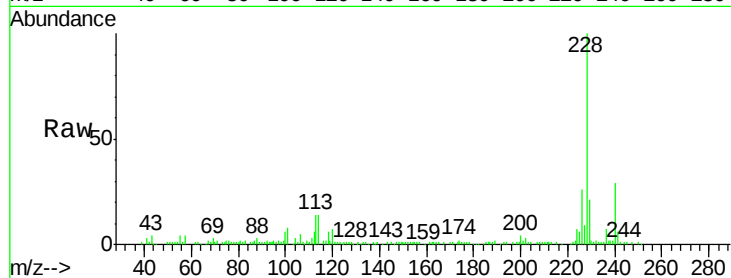
Tot Ion:228 Resp: 79851

Ion Ratio Lower Upper

228 100

226 26.3 22.6 33.8

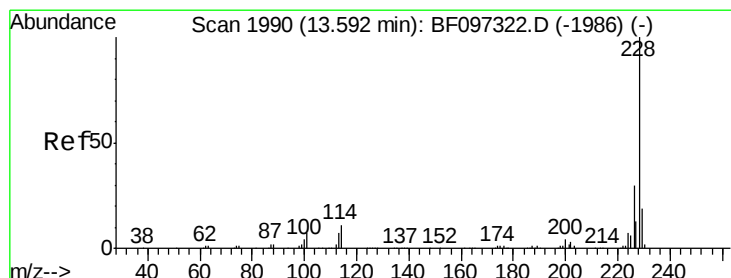
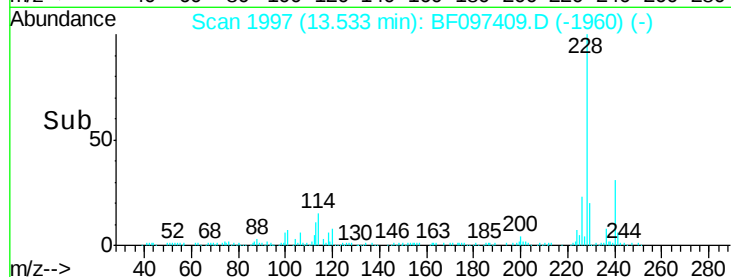
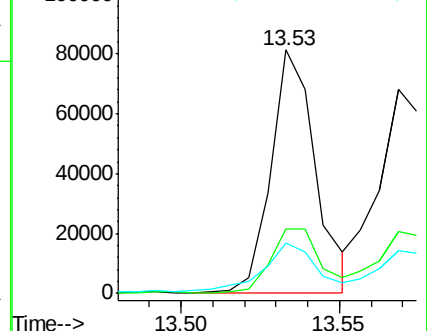
229 20.7 16.3 24.5



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: 6.87 ng

RT: 13.57 min Scan# 2003

Delta R.T. -0.09 min

Lab File: BF097409.D

Acq: 5 Aug 2017 20:47

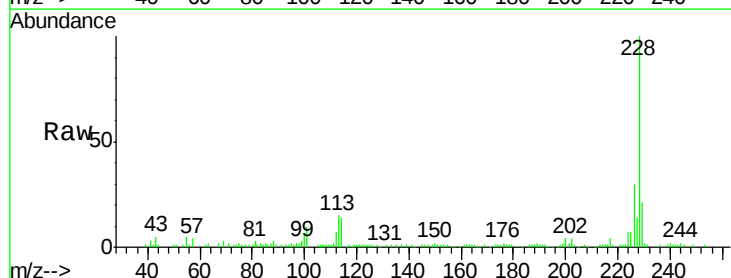
Tgt Ion:228 Resp: 74600

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

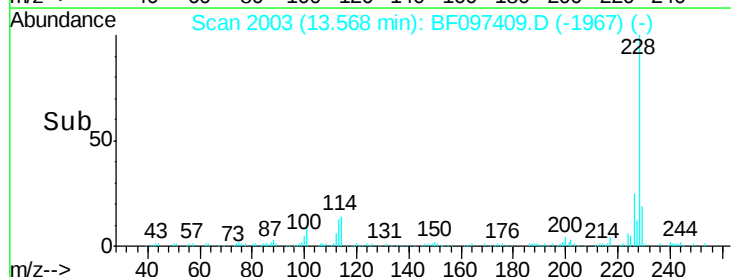
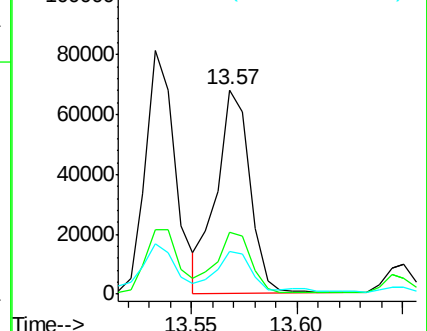
229 21.2 15.8 23.6

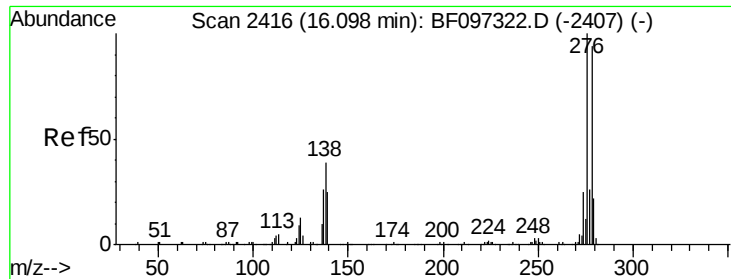


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

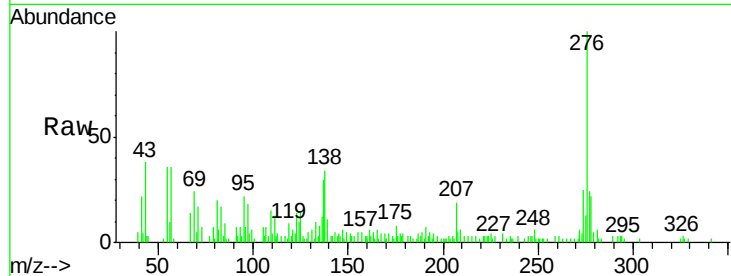




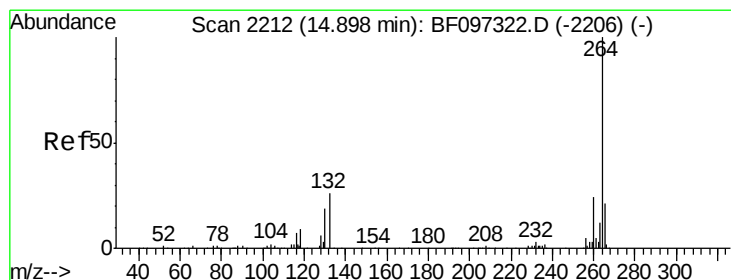
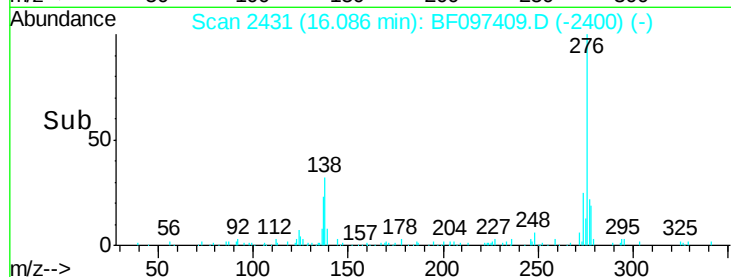
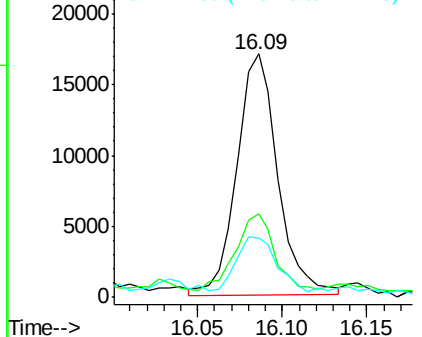
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 3.08 ng
 RT: 16.09 min Scan# 2431
 Delta R.T. -0.12 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	31.2	27.8	41.6
277	23.0	20.2	30.4

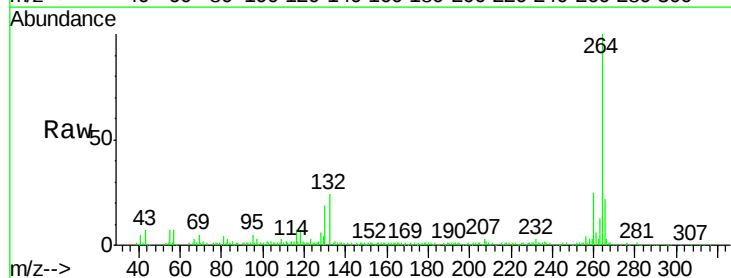


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

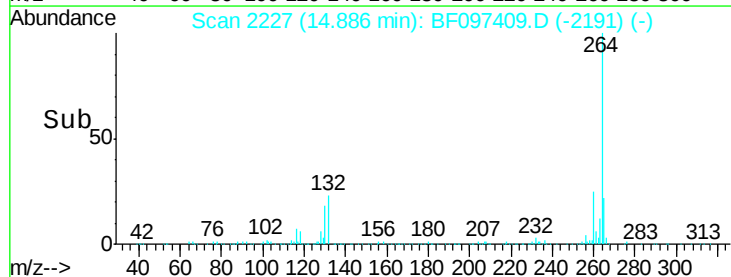
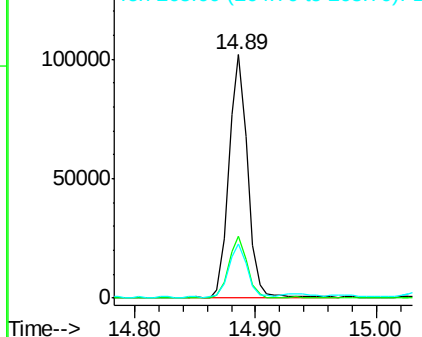


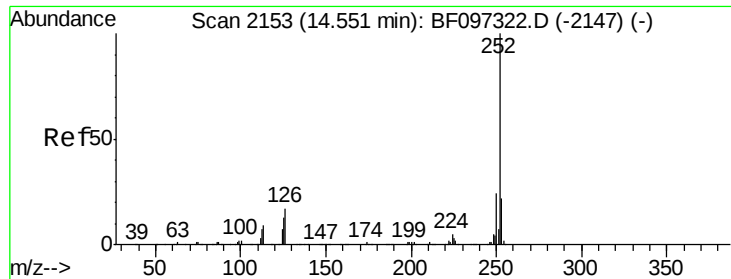
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 14.89 min Scan# 2227
 Delta R.T. -0.09 min
 Lab File: BF097409.D
 Acq: 5 Aug 2017 20:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.2	19.5	29.3
265	22.2	17.2	25.8



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

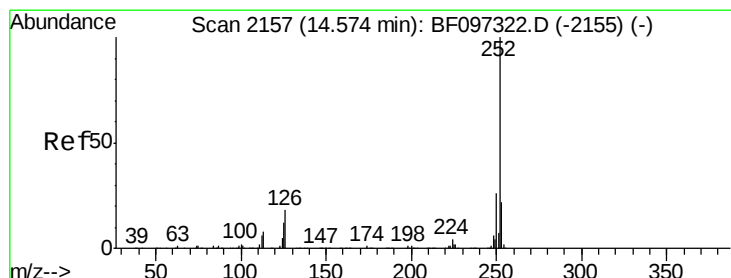
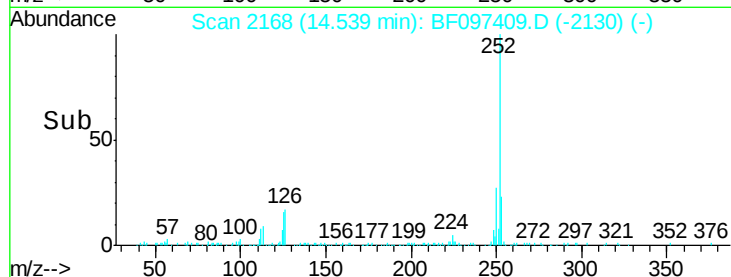
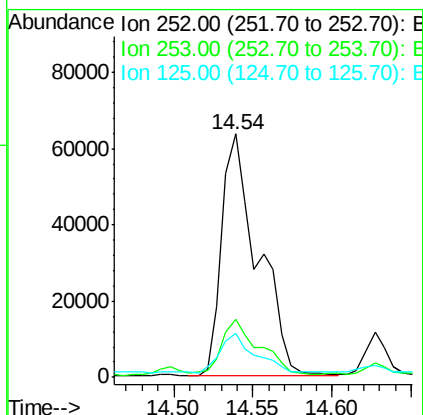
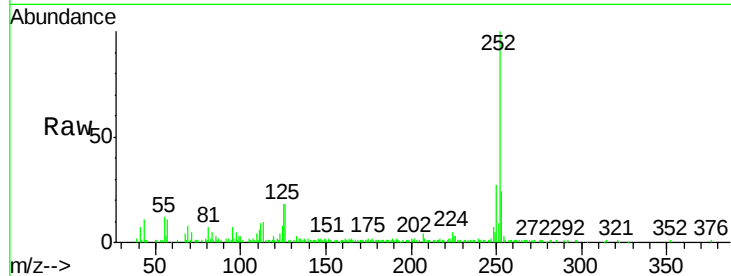




#87
Benzo(b)fluoranthene
Concen: 15.17 ng
RT: 14.54 min Scan# 2168
Delta R.T. -0.08 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

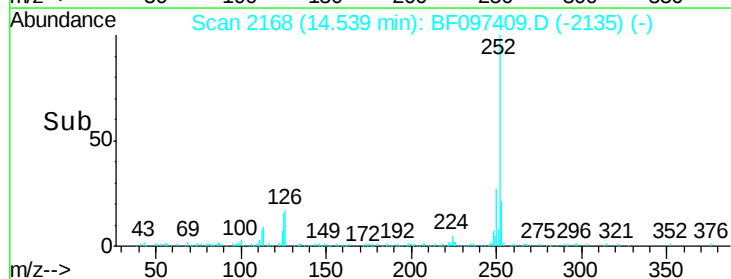
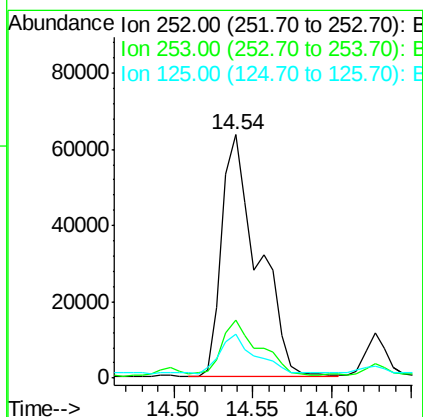
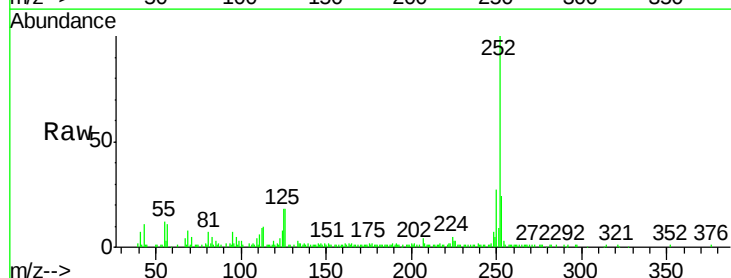
Instrument :
BNA_F
ClientSampleId :

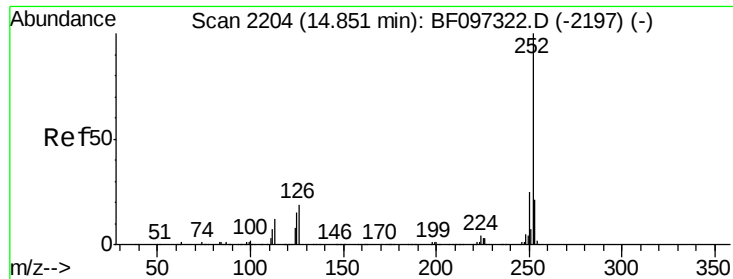
Tot Ion:252 Resp: 100494
Ion Ratio Lower Upper
252 100
253 23.7 18.1 27.1
125 18.3 9.8 14.8#



#88
Benzo(k)fluoranthene
Concen: 15.92 ng
RT: 14.54 min Scan# 2168
Delta R.T. -0.11 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

Tgt Ion:252 Resp: 100494
Ion Ratio Lower Upper
252 100
253 23.7 18.4 27.6
125 18.3 13.1 19.7

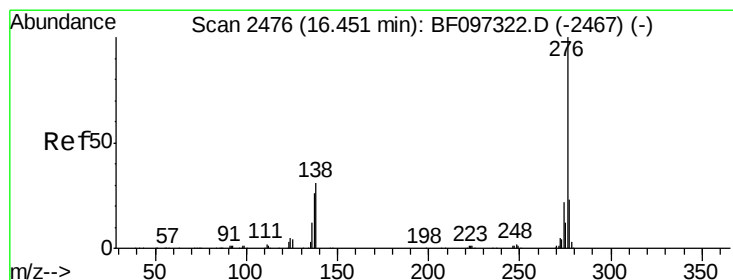
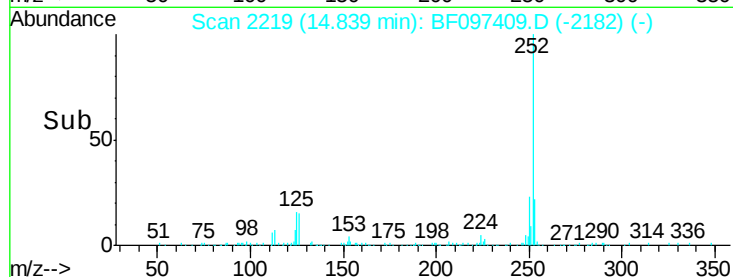
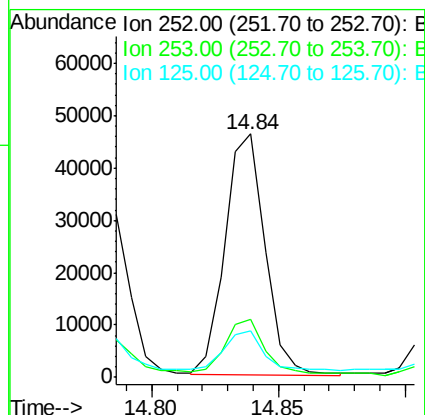
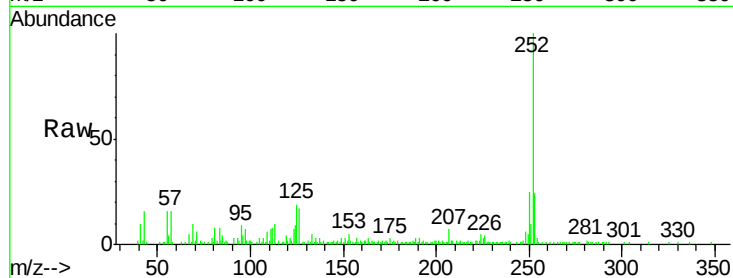




#89
Benzo(a)pyrene
Concen: 8.35 ng
RT: 14.84 min Scan# 2219
Delta R.T. -0.08 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 50603
Ion Ratio Lower Upper
252 100
253 24.0 17.5 26.3
125 18.9 11.0 16.4#



#91
Benzo(g,h,i)perylene
Concen: 5.78 ng
RT: 16.44 min Scan# 2491
Delta R.T. -0.13 min
Lab File: BF097409.D
Acq: 5 Aug 2017 20:47

Tgt Ion:276 Resp: 30118
Ion Ratio Lower Upper
276 100
277 29.2 18.6 28.0#
138 30.2 25.4 38.0

