

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097798.D
 Acq On : 17 Aug 2017 20:55
 Operator : SJ/JU
 Sample : I4815-01 5X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-A

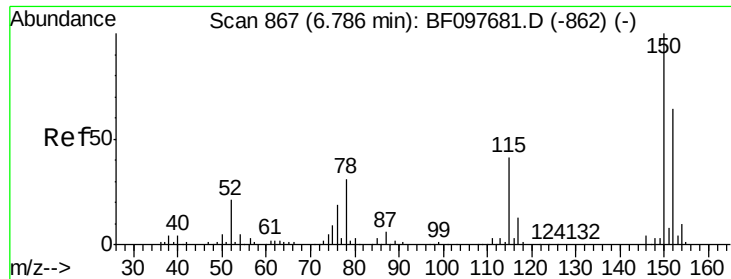
Quant Time: Aug 18 01:33:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	134708	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	481199	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	176179	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	293164	20.00	ng	-0.01
75) Chrysene-d12	13.93	240	282588	20.00	ng	-0.01
86) Perylene-d12	15.36	264	200585	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.37	112	596446	67.35	ng	-0.01
7) Phenol-d6	6.40	99	771190	64.09	ng	0.00
23) Nitrobenzene-d5	7.33	82	451857	51.01	ng	-0.02
41) 2,4,6-Tribromophenol	10.60	330	89221	58.37	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	564660	47.09	ng	-0.01
78) Terphenyl-d14	12.88	244	419958	30.99	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propylamine	7.33	70	61894	7.51	ng	# 74
25) Isophorone	7.33	82	451849	24.53	ng	# 67
48) Acenaphthylene	9.67	152	52668	2.83	ng	98
49) Dimethylphthalate	9.53	163	82964	6.44	ng	97
50) 2,6-Dinitrotoluene	9.81	165	22928	8.92	ng	# 34
56) 2,4-Dinitrotoluene	9.81	165	22928	7.11	ng	# 33
64) 4,6-Dinitro-2-methylphenol	10.60	198	246	8.47	ng	# 1
70) Phenanthrene	11.32	178	36391	2.33	ng	97
74) Fluoranthene	12.50	202	148474	9.11	ng	99
77) Pyrene	12.73	202	152186	6.58	ng	97
80) Benzo(a)anthracene	13.95	228	106104	6.26	ng	93
82) Chrysene	13.95	228	106104	6.30	ng	# 96
87) Benzo(b)fluoranthene	14.95	252	185040	14.64	ng	# 94
88) Benzo(k)fluoranthene	14.95	252	185040	15.58	ng	97
89) Benzo(a)pyrene	15.30	252	99937	8.93	ng	96
91) Benzo(g,h,i)perylene	17.18	276	64515	6.79	ng	94

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



#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 797

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

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ClientSampleId :

TR-05-081517-A

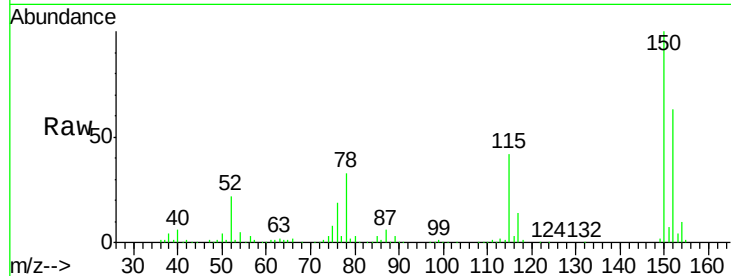
Tot Ion:152 Resp: 134708

Ion Ratio Lower Upper

152 100

150 157.9 126.2 189.2

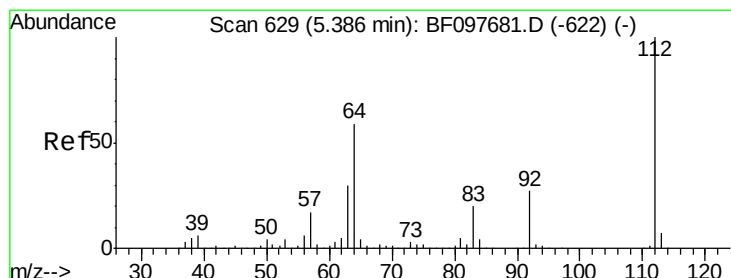
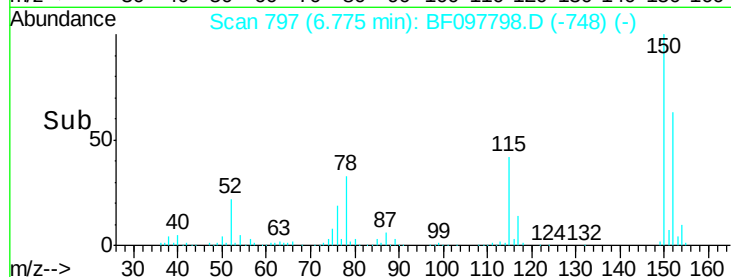
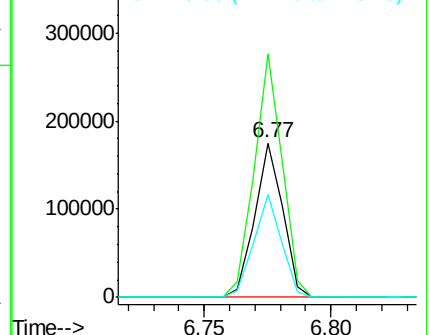
115 66.6 52.2 78.2



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: 67.35 ng

RT: 5.37 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

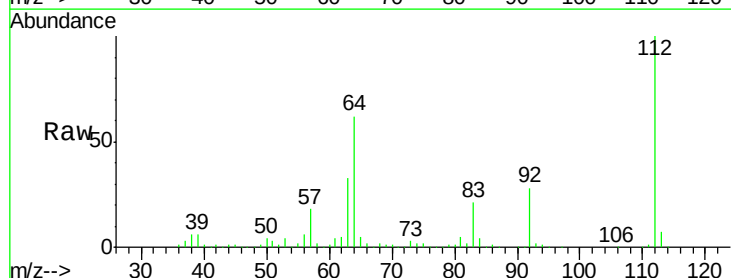
Tgt Ion:112 Resp: 596446

Ion Ratio Lower Upper

112 100

64 62.3 46.0 69.0

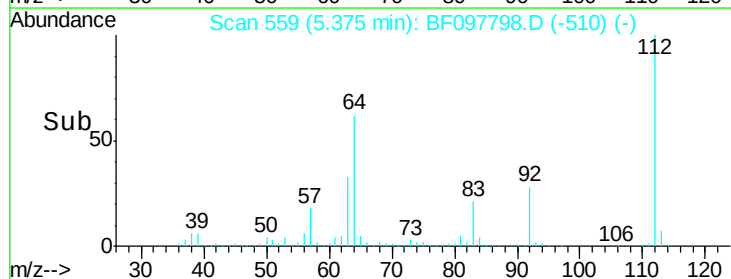
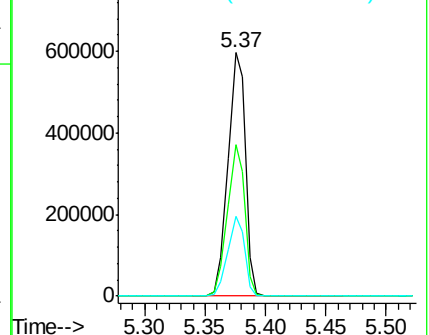
63 32.5 23.4 35.0

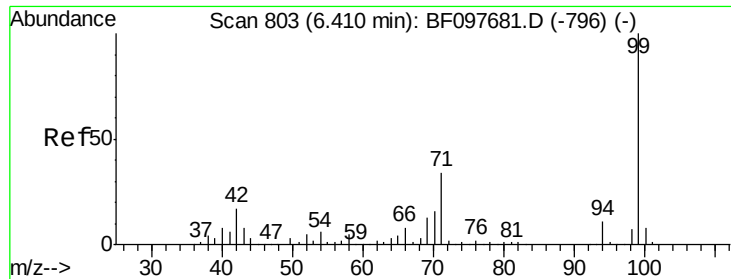


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 64.09 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

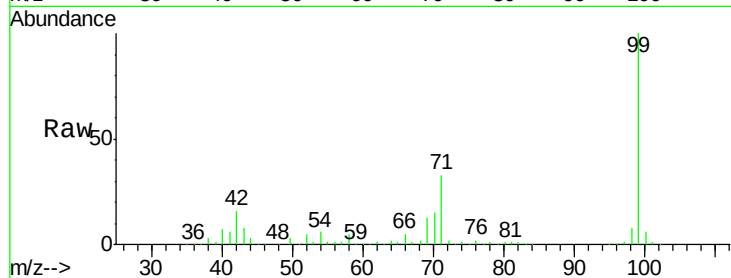
Tot Ion: 99 Resp: 771190

Ion Ratio Lower Upper

99 100

42 15.8 13.5 20.3

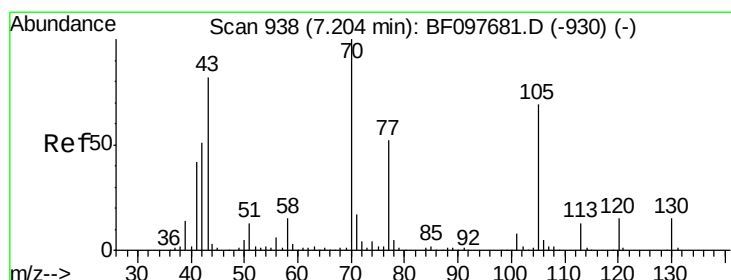
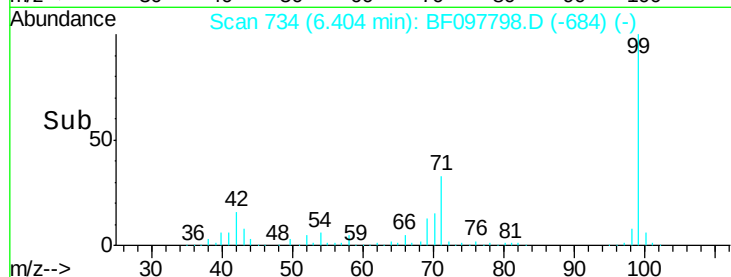
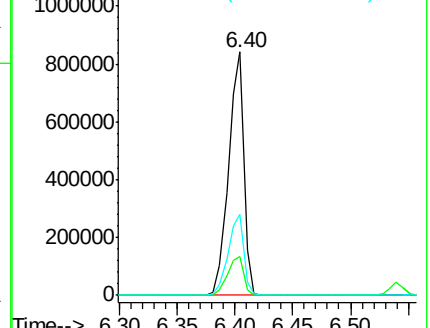
71 33.0 24.5 36.7



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: 7.51 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.13 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Tgt Ion: 70 Resp: 61894

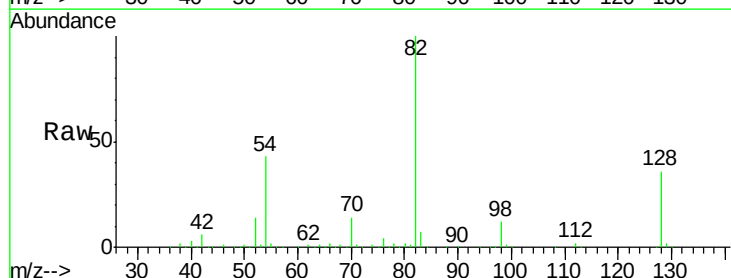
Ion Ratio Lower Upper

70 100

42 43.0 47.2 70.8#

101 0.0 7.2 10.8#

130 2.0 15.9 23.9#

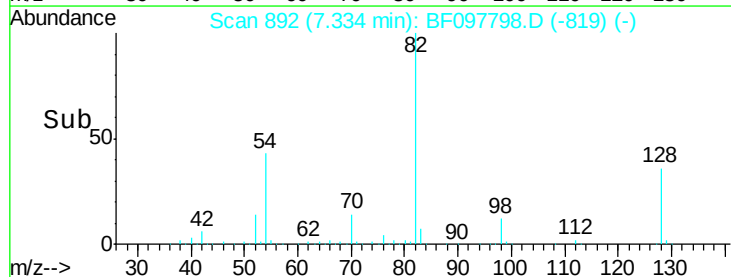
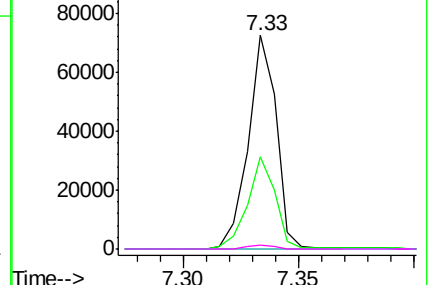


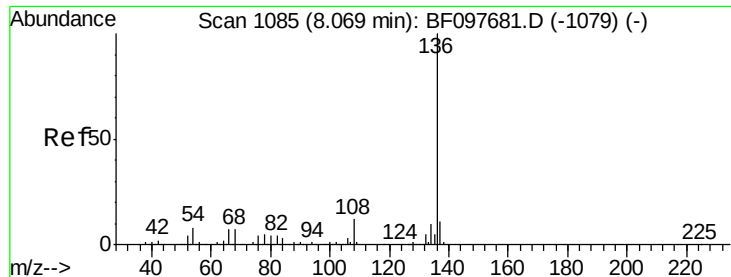
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

Tot Ion:136 Resp: 481199

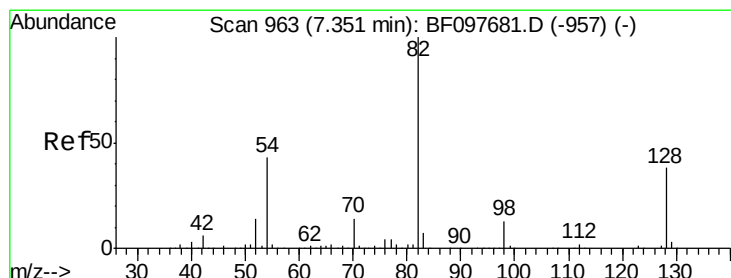
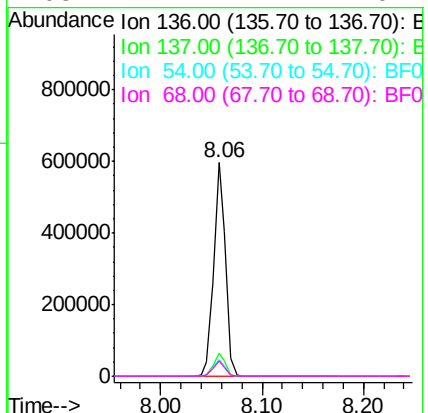
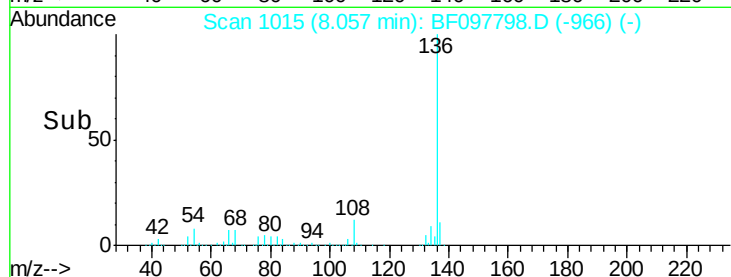
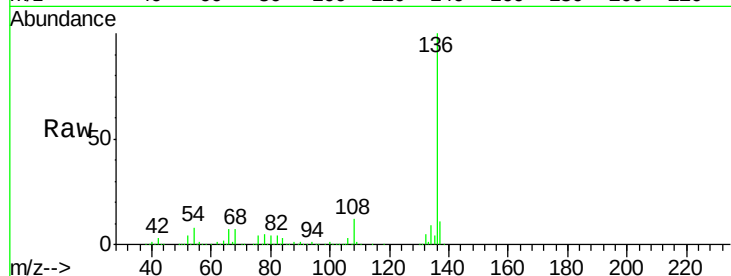
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.9 4.9 7.3#

68 7.1 4.1 6.1#



#23

Nitrobenzene-d5

Concen: 51.01 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.02 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

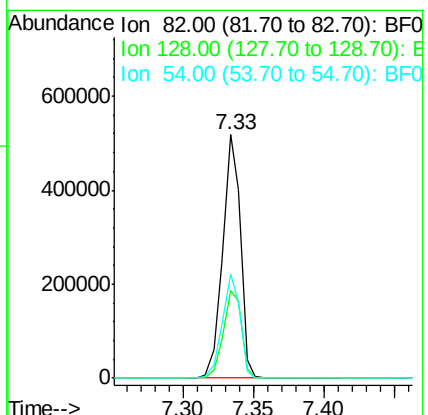
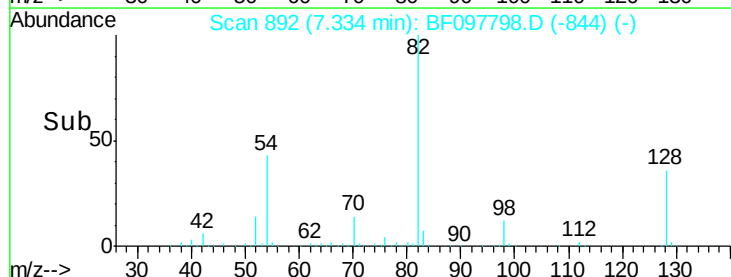
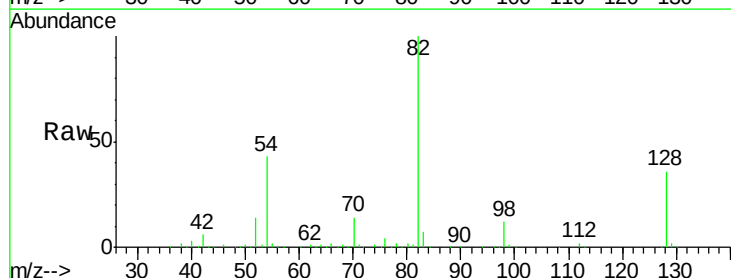
Tgt Ion: 82 Resp: 451857

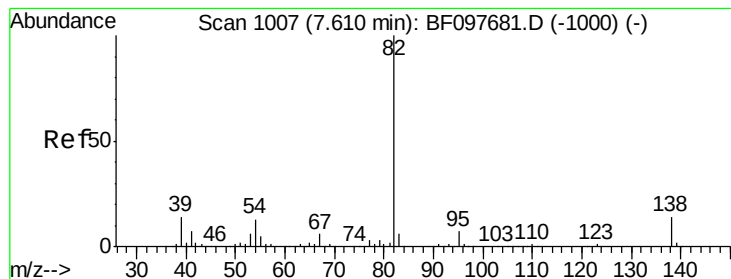
Ion Ratio Lower Upper

82 100

128 35.8 34.0 51.0

54 43.0 42.2 63.2





#25

Isophorone

Concen: 24.53 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.28 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

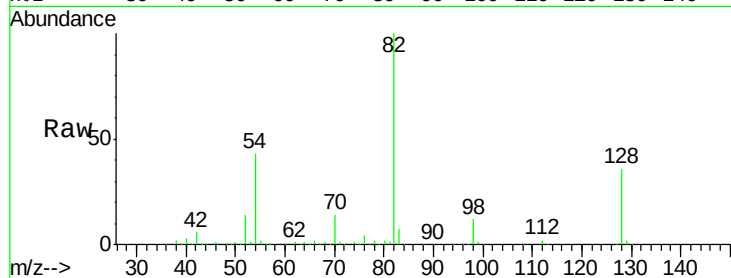
Tot Ion: 82 Resp: 451849

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

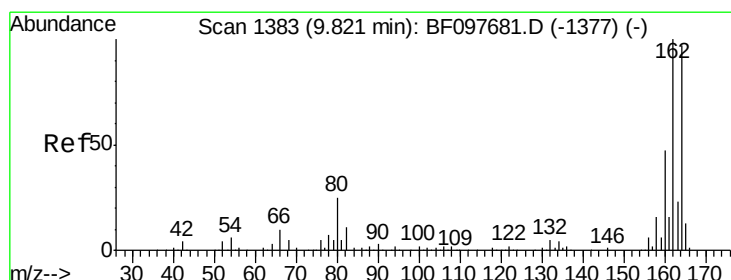
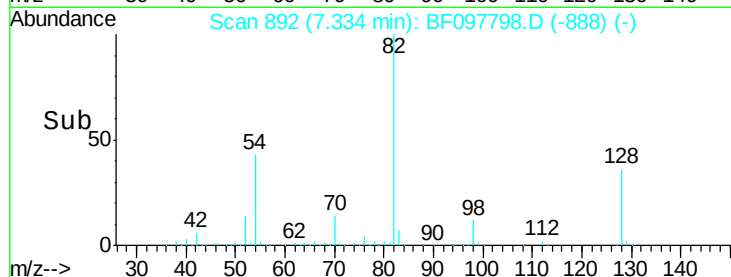
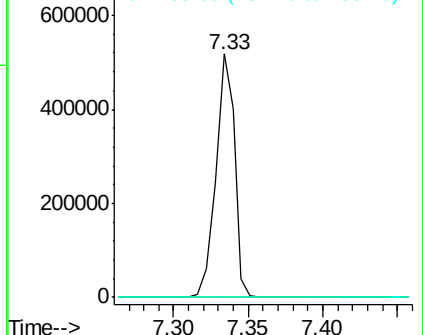
138 0.0 13.1 19.7#



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): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.81 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

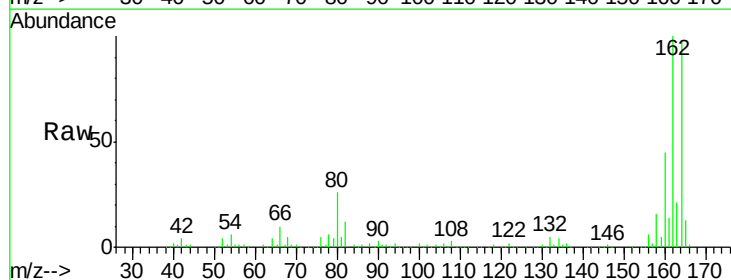
Tgt Ion: 164 Resp: 176179

Ion Ratio Lower Upper

164 100

162 102.3 82.6 123.8

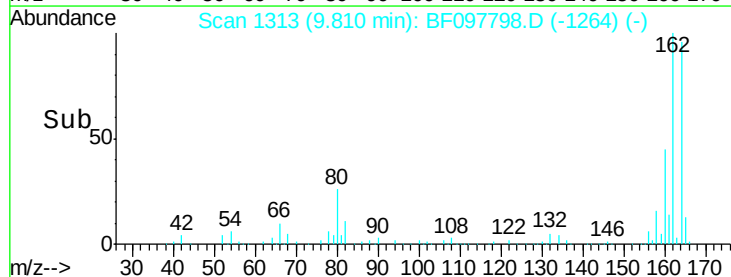
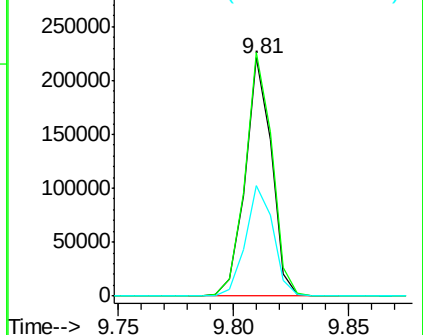
160 46.3 36.2 54.2

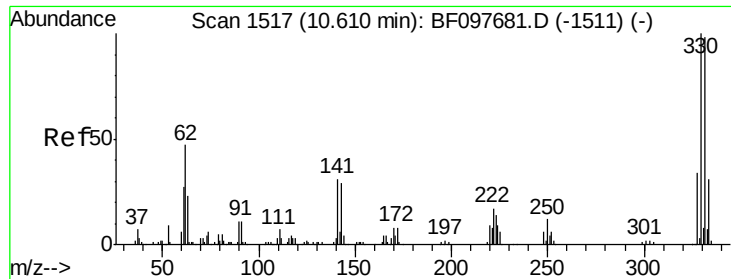


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

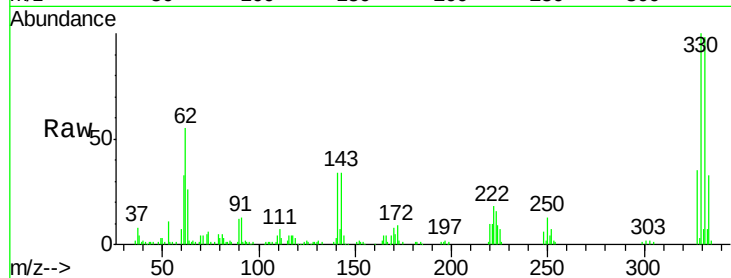




#41
 2,4,6-Tribromophenol
 Concen: 58.37 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: BF097798.D
 Acq: 17 Aug 2017 20:55

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-A

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.6	115.0
141	42.9	31.4	47.2

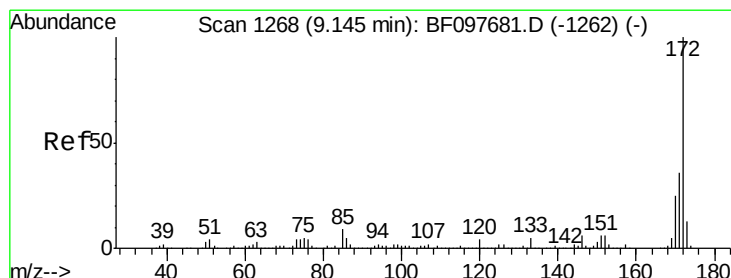
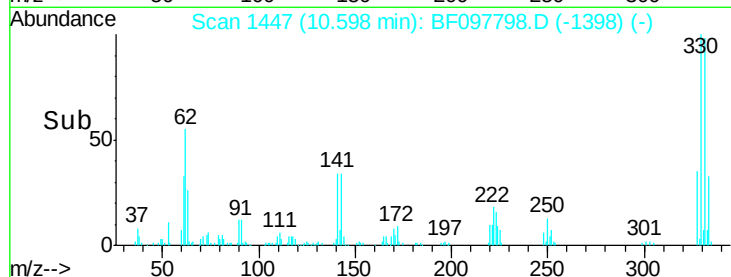
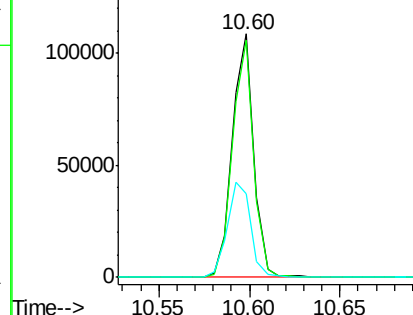


Abundance

Ion 329.80 (329.50 to 330.50): E

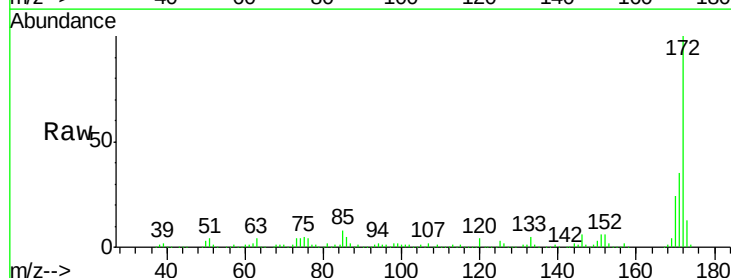
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 47.09 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: BF097798.D
 Acq: 17 Aug 2017 20:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.6	44.4
170	24.2	19.8	29.8

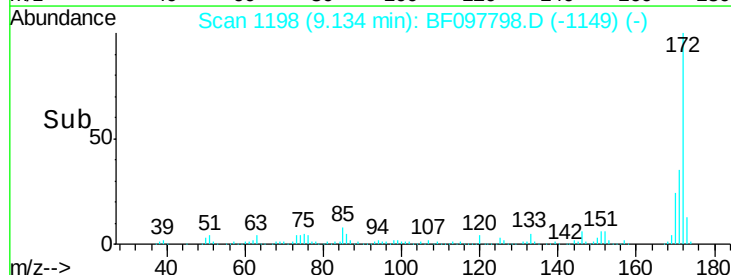
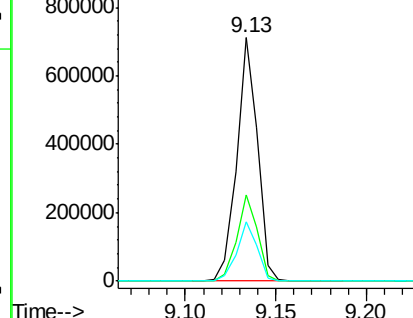


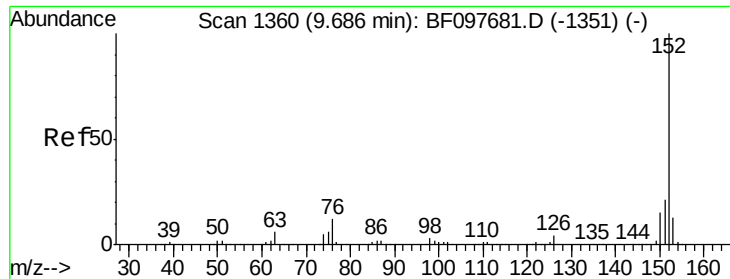
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 2.83 ng

RT: 9.67 min Scan# 1289

Delta R.T. -0.02 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

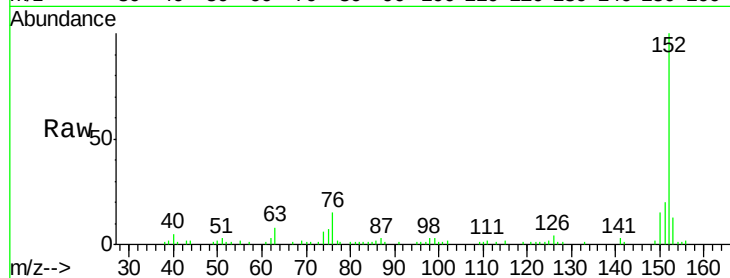
Tot Ion:152 Resp: 52668

Ion Ratio Lower Upper

152 100

151 20.0 16.8 25.2

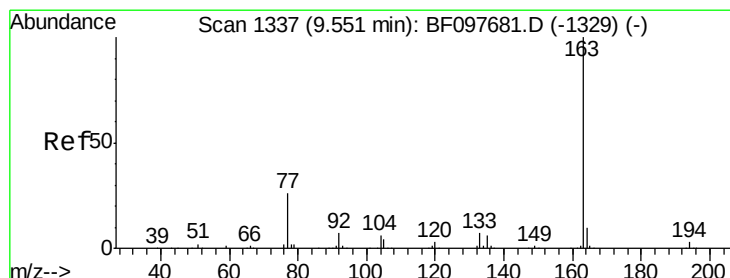
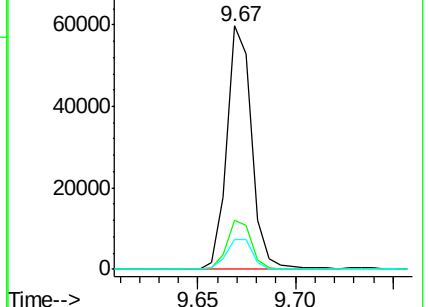
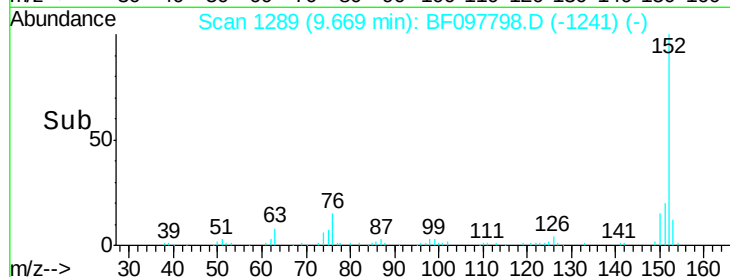
153 12.5 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 6.44 ng

RT: 9.53 min Scan# 1265

Delta R.T. -0.02 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

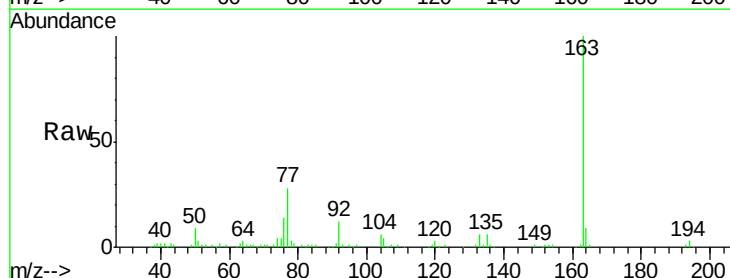
Tgt Ion:163 Resp: 82964

Ion Ratio Lower Upper

163 100

194 3.3 2.6 4.0

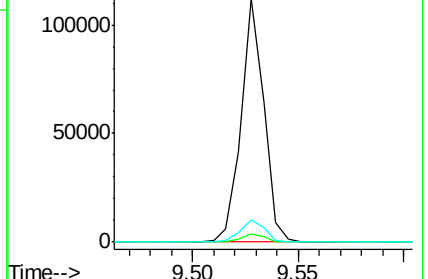
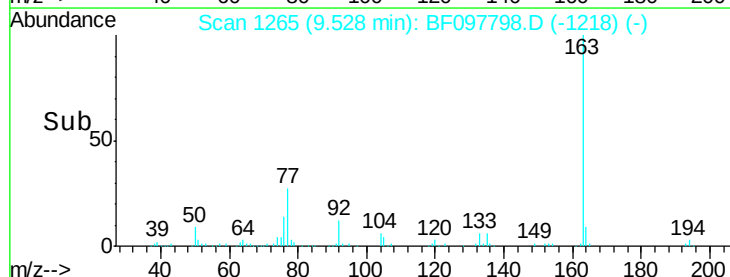
164 9.2 8.4 12.6

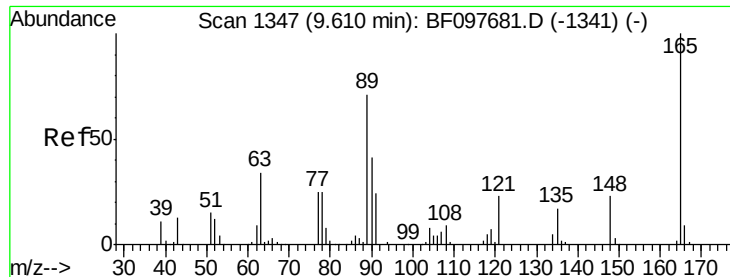


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

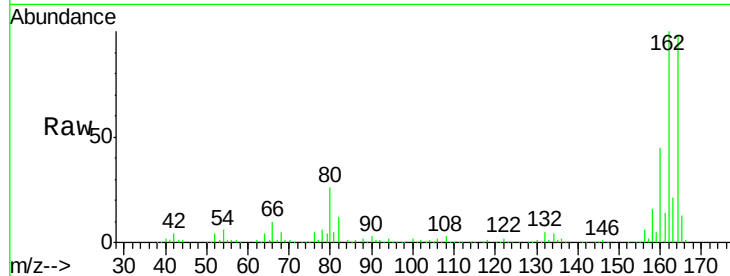




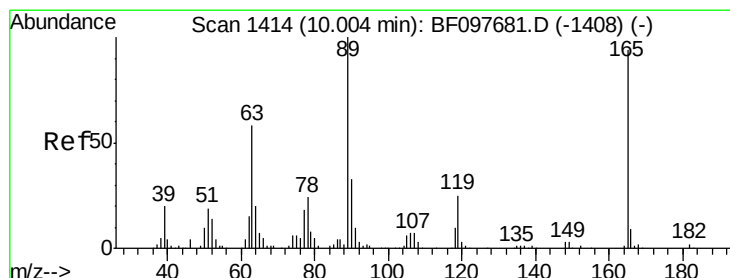
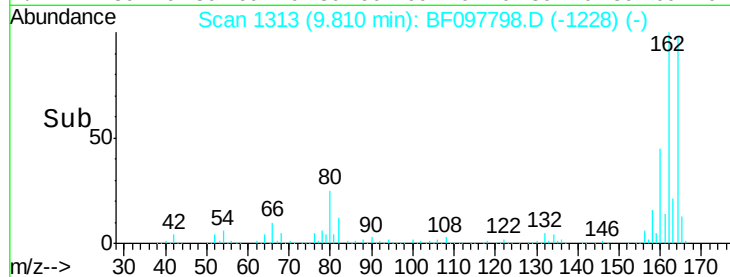
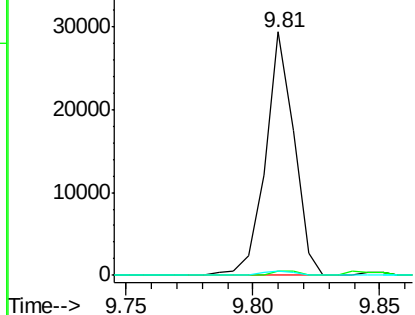
#50
 2,6-Dinitrotoluene
 Concen: 8.92 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. 0.20 min
 Lab File: BF097798.D
 Acq: 17 Aug 2017 20:55

Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-A

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	34.3	51.5#
89	1.7	37.1	55.7#



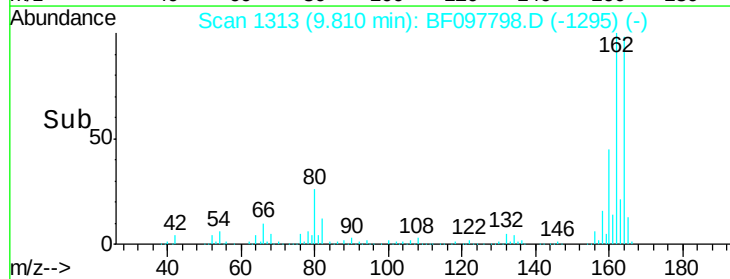
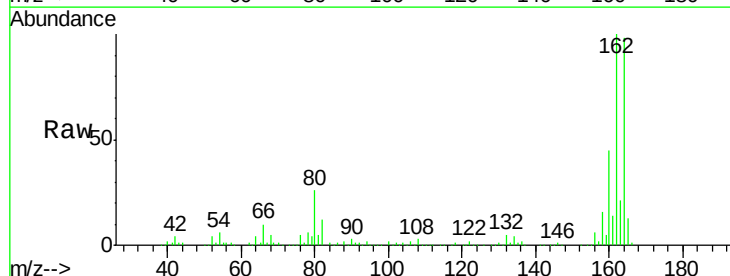
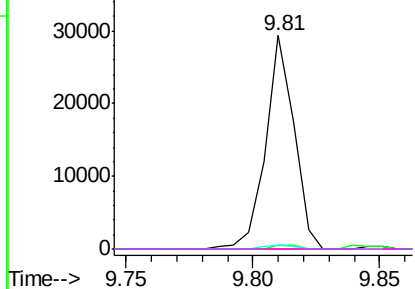
Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

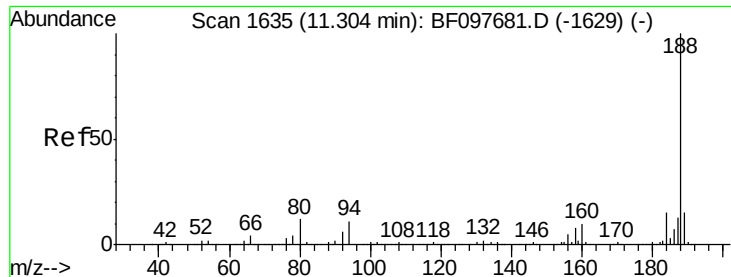


#56
 2,4-Dinitrotoluene
 Concen: 7.11 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.19 min
 Lab File: BF097798.D
 Acq: 17 Aug 2017 20:55

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.7	25.4	38.0#
89	1.7	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

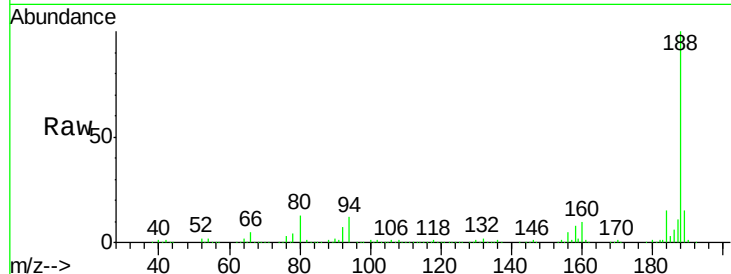




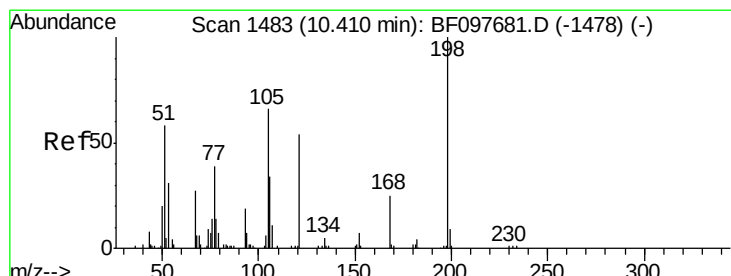
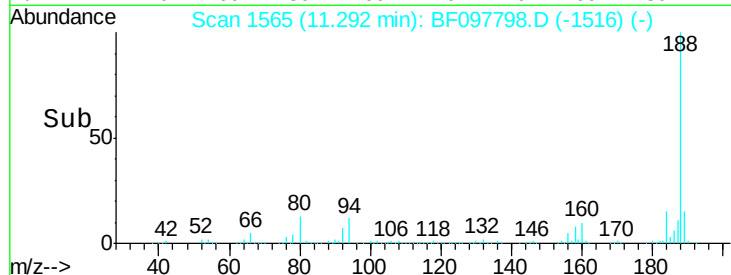
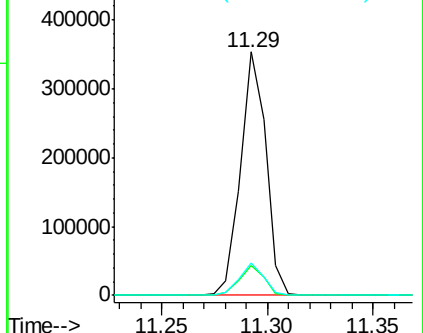
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.29 min Scan# 1565
Delta R.T. -0.01 min
Lab File: BF097798.D
Acq: 17 Aug 2017 20:55

Instrument :
BNA_F
ClientSampleId :
TR-05-081517-A

Tot Ion:188 Resp: 293164
Ion Ratio Lower Upper
188 100
94 12.4 9.4 14.2
80 13.2 10.2 15.2

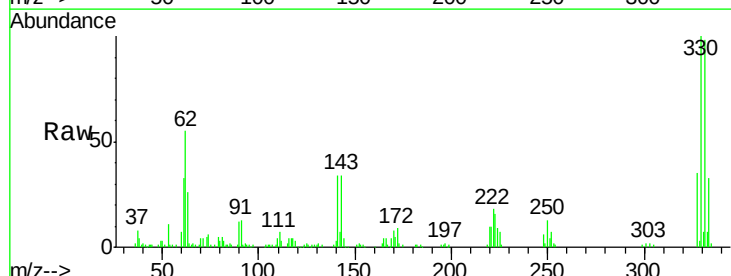


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

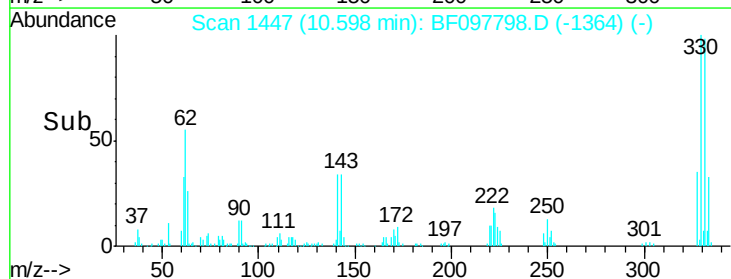
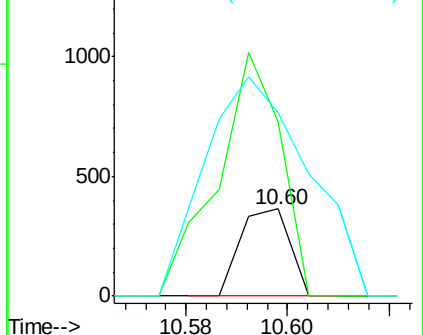


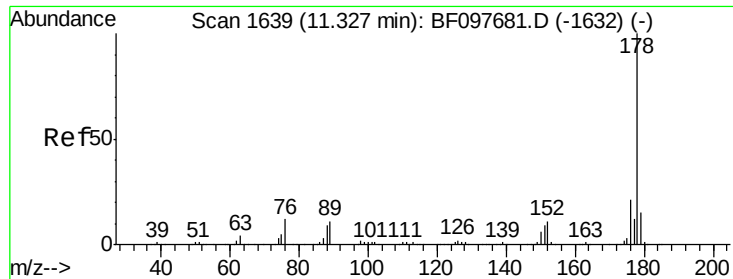
#64
4,6-Dinitro-2-methylphenol
Concen: 8.47 ng
RT: 10.60 min Scan# 1447
Delta R.T. 0.19 min
Lab File: BF097798.D
Acq: 17 Aug 2017 20:55

Tgt Ion:198 Resp: 246
Ion Ratio Lower Upper
198 100
51 199.7 53.2 93.2#
105 211.3 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





#70

Phenanthrene

Concen: 2.33 ng

RT: 11.32 min Scan# 1569

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

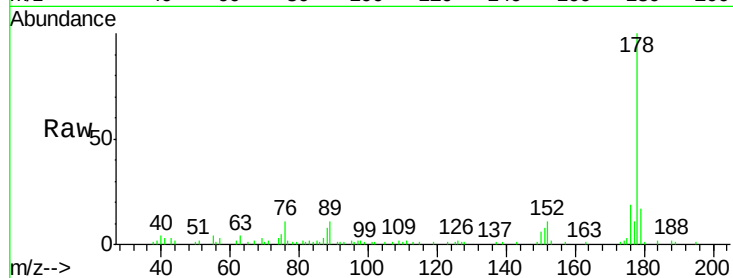
Tot Ion:178 Resp: 36391

Ion Ratio Lower Upper

178 100

176 18.9 16.2 24.4

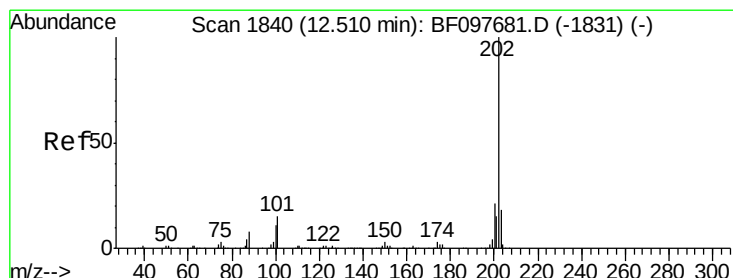
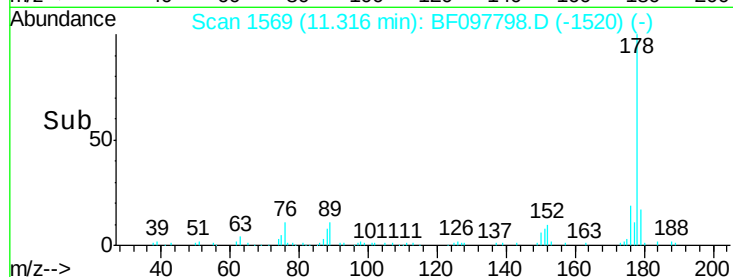
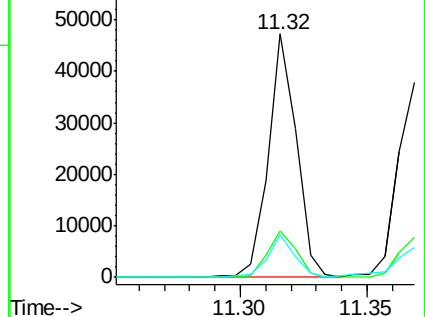
179 17.3 12.6 19.0



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



#74

Fluoranthene

Concen: 9.11 ng

RT: 12.50 min Scan# 1771

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

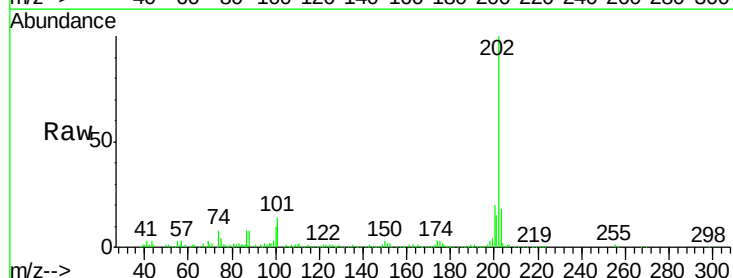
Tgt Ion:202 Resp: 148474

Ion Ratio Lower Upper

202 100

101 14.1 0.0 33.2

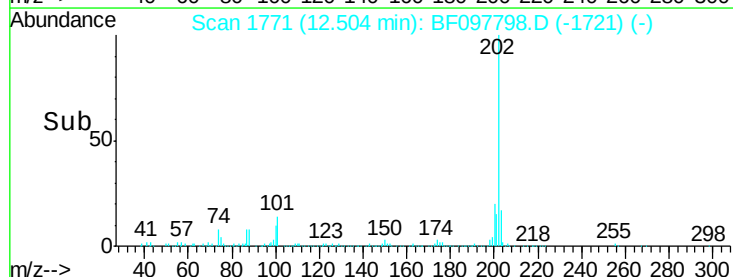
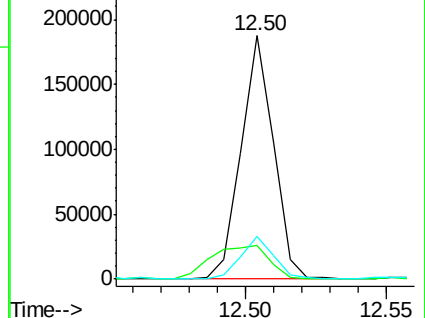
203 17.7 0.0 38.1

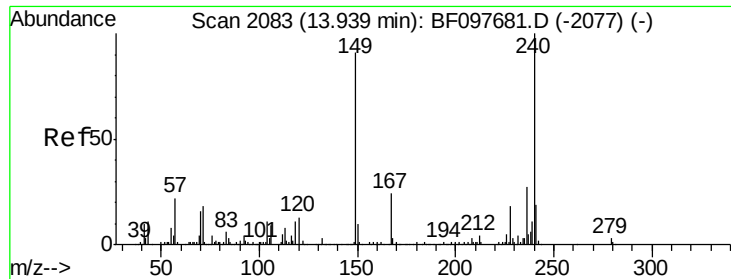


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.93 min Scan# 2013

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

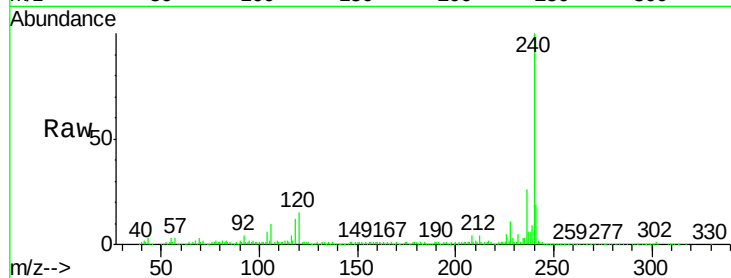
Tot Ion:240 Resp: 282588

Ion Ratio Lower Upper

240 100

120 15.1 5.8 8.8#

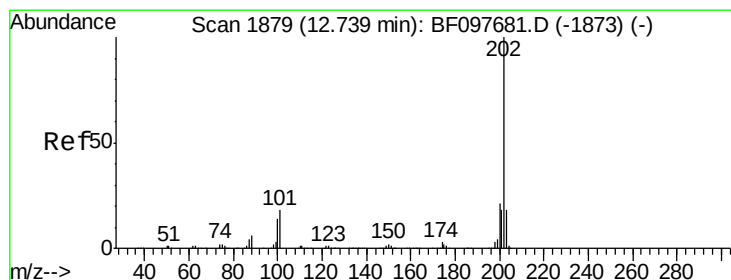
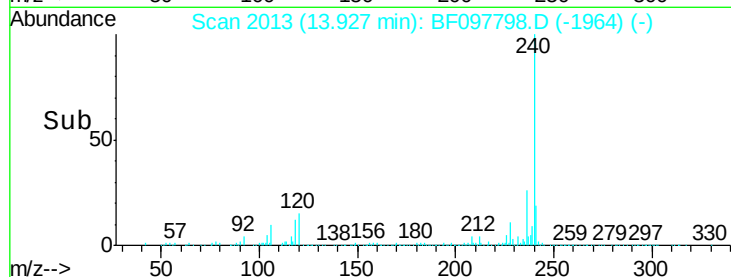
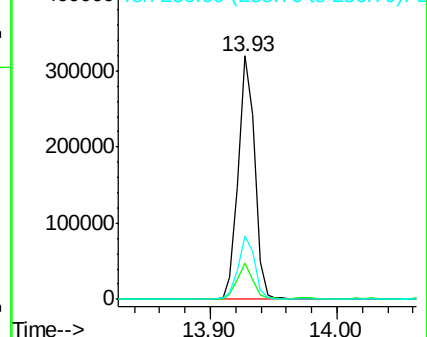
236 26.0 20.5 30.7



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

Pyrene

Concen: 6.58 ng

RT: 12.73 min Scan# 1810

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

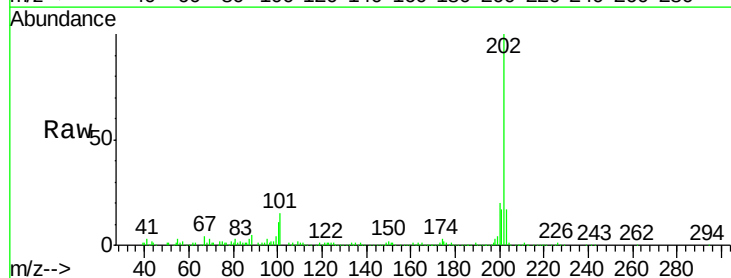
Tgt Ion:202 Resp: 152186

Ion Ratio Lower Upper

202 100

200 19.8 17.6 26.4

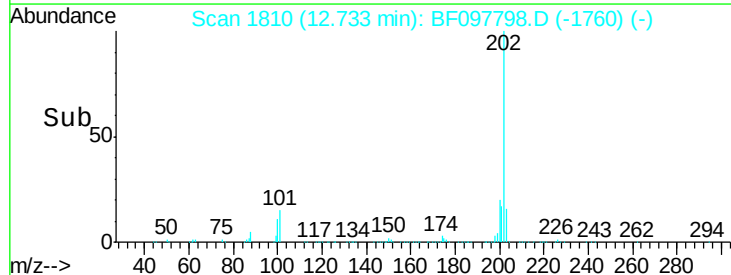
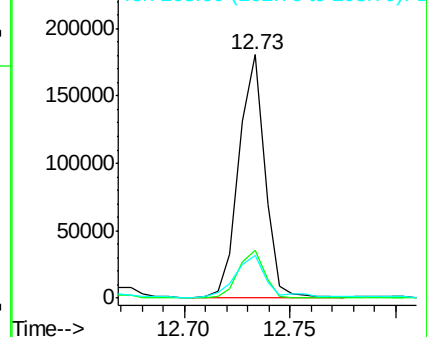
203 17.4 14.4 21.6

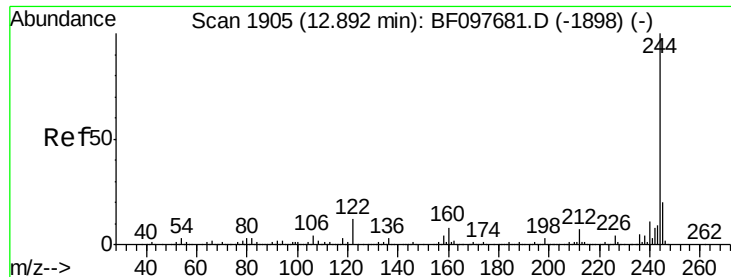


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

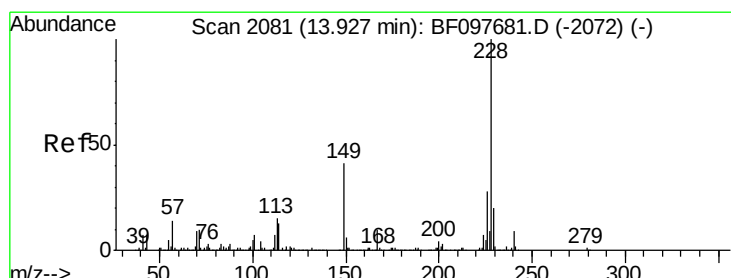
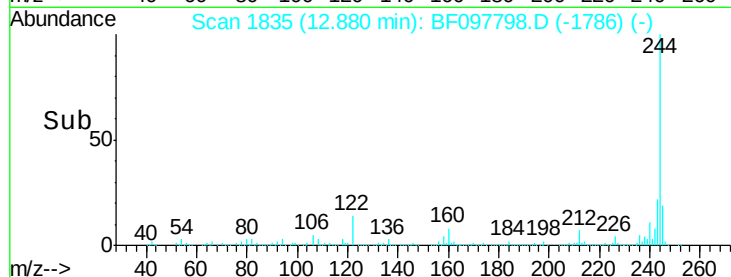
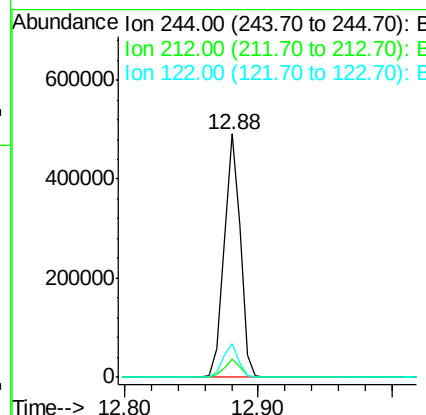
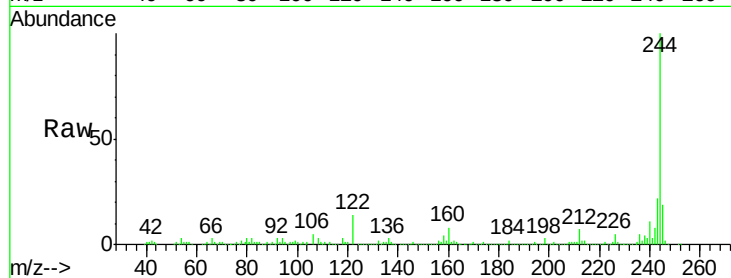




#78
 Terphenyl-d14
 Concen: 30.99 ng
 RT: 12.88 min Scan# 1835
 Delta R.T. -0.01 min
 Lab File: BF097798.D
 Acq: 17 Aug 2017 20:55

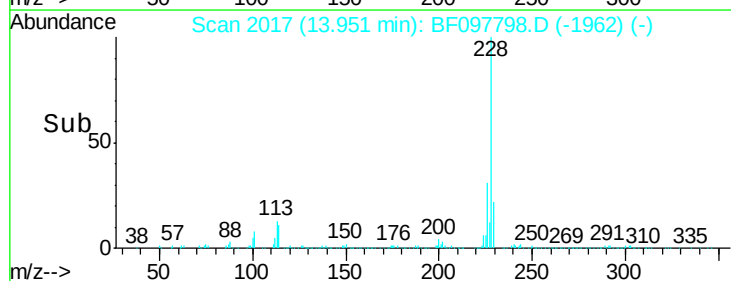
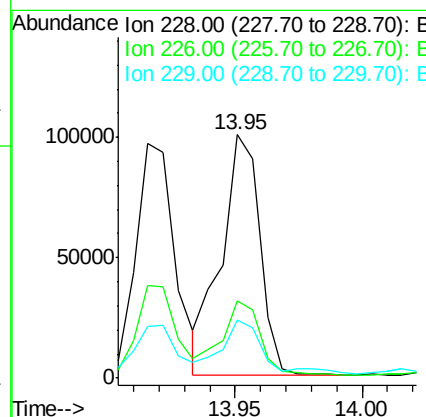
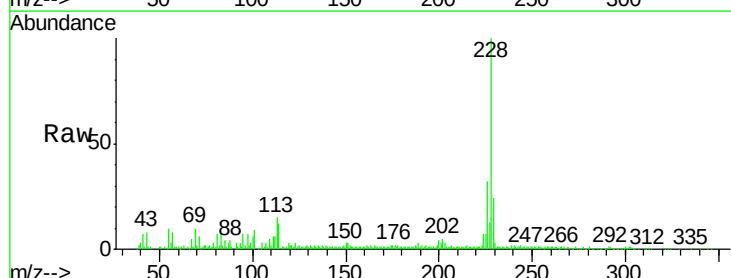
Instrument :
 BNA_F
 ClientSampleId :
 TR-05-081517-A

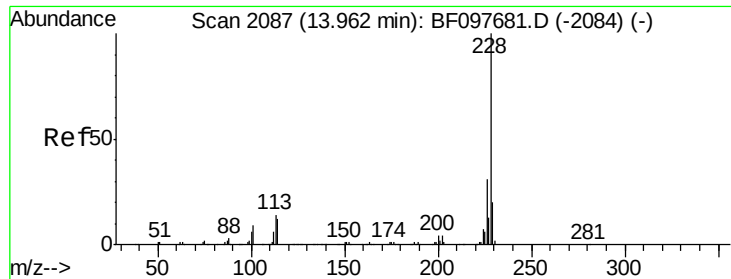
Tot Ion:244 Resp: 419958
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.0 9.0
 122 13.7 10.3 15.5



#80
 Benzo(a)anthracene
 Concen: 6.26 ng
 RT: 13.95 min Scan# 2017
 Delta R.T. 0.02 min
 Lab File: BF097798.D
 Acq: 17 Aug 2017 20:55

Tgt Ion:228 Resp: 106104
 Ion Ratio Lower Upper
 228 100
 226 31.9 22.6 33.8
 229 23.7 16.3 24.5





#82

Chrysene

Concen: 6.30 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

Instrument :

BNA_F

ClientSampleId :

TR-05-081517-A

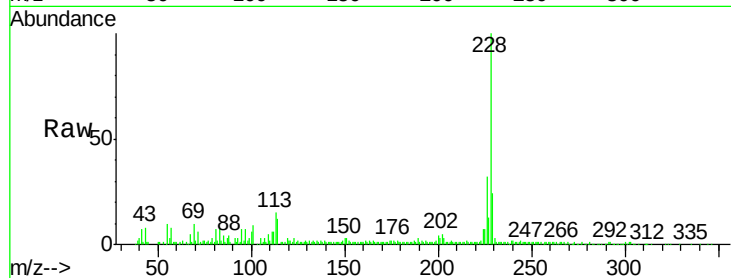
Tot Ion:228 Resp: 106104

Ion Ratio Lower Upper

228 100

226 31.9 24.9 37.3

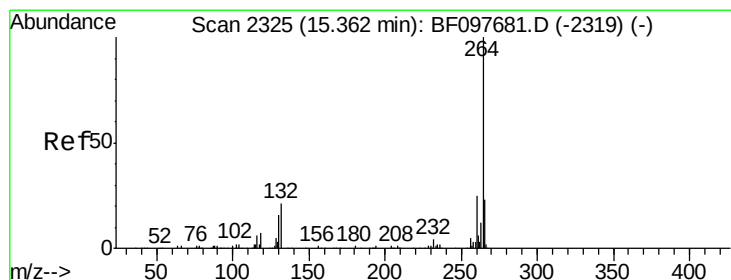
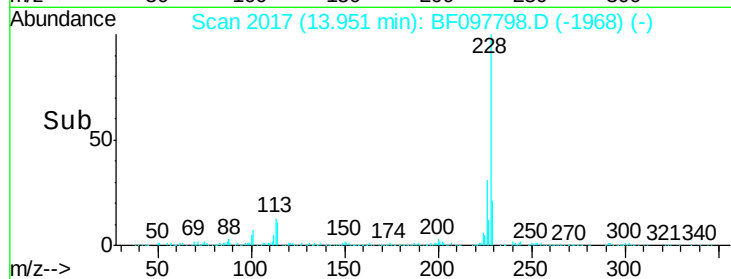
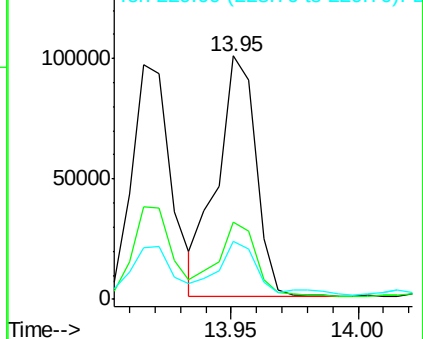
229 23.7 15.8 23.6#



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: 15.36 min Scan# 2257

Delta R.T. 0.00 min

Lab File: BF097798.D

Acq: 17 Aug 2017 20:55

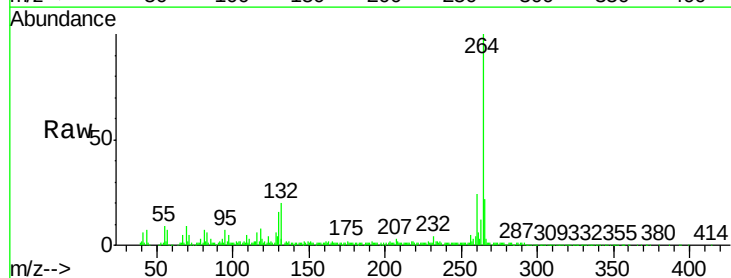
Tgt Ion:264 Resp: 200585

Ion Ratio Lower Upper

264 100

260 23.9 19.5 29.3

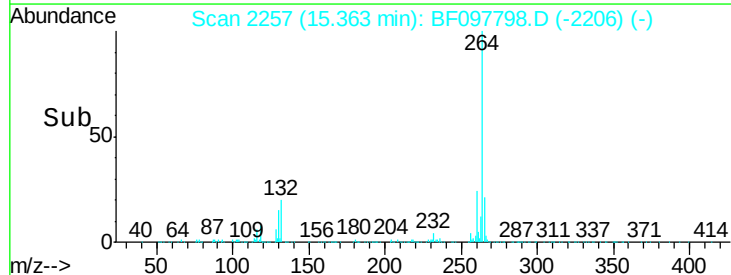
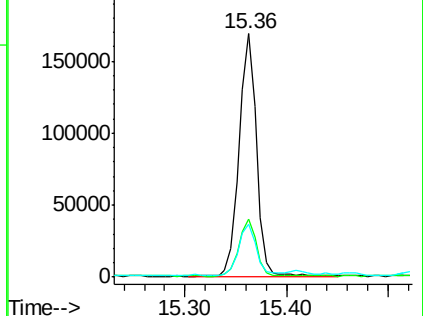
265 21.9 17.2 25.8

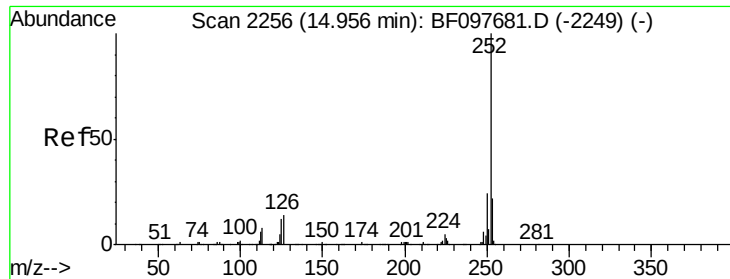


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

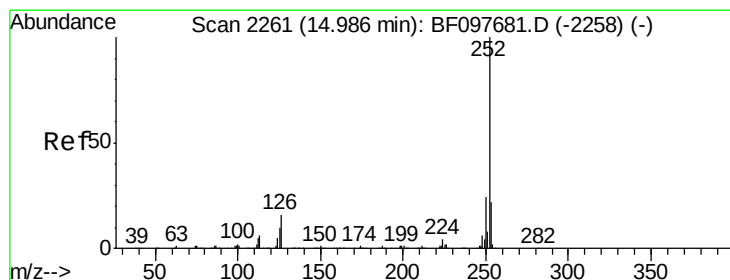
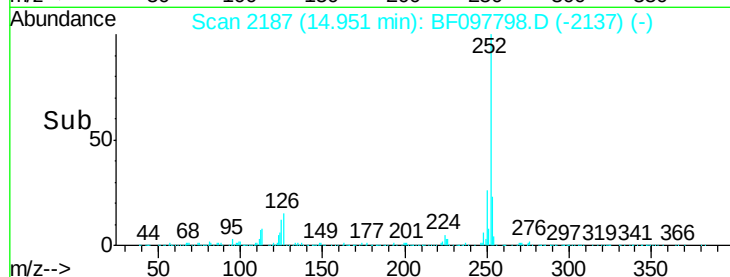
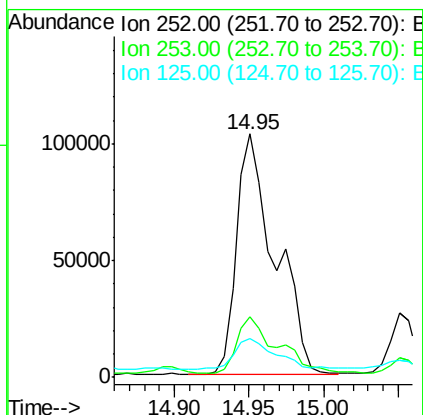
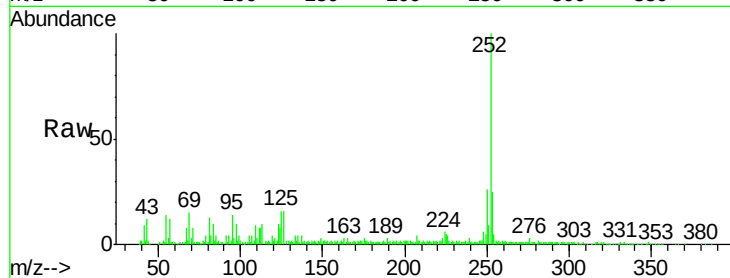




#87
Benzo(b)fluoranthene
Concen: 14.64 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF097798.D
Acq: 17 Aug 2017 20:55

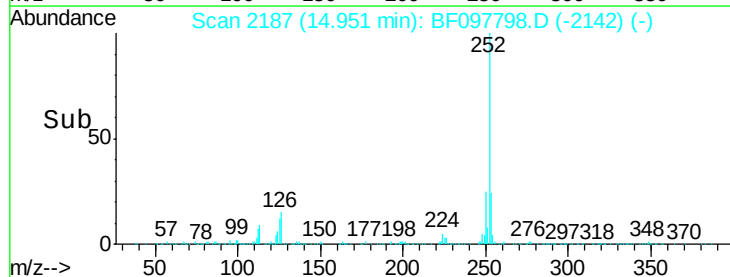
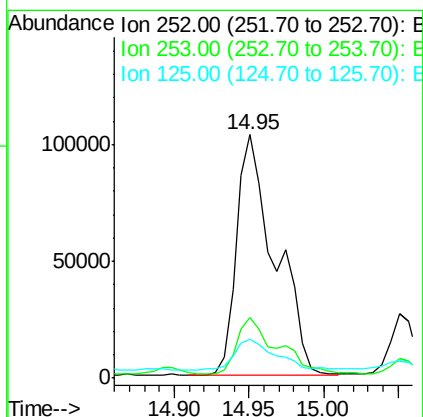
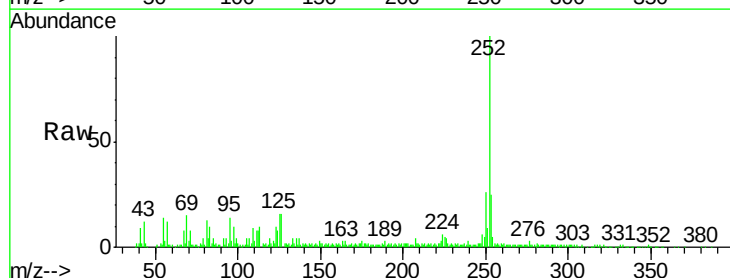
Instrument :
BNA_F
ClientSampleId :
TR-05-081517-A

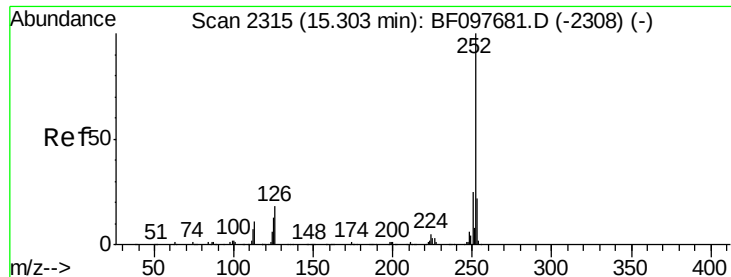
Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.1	27.1
125	15.7	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 15.58 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.04 min
Lab File: BF097798.D
Acq: 17 Aug 2017 20:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.7	18.4	27.6
125	15.7	13.1	19.7

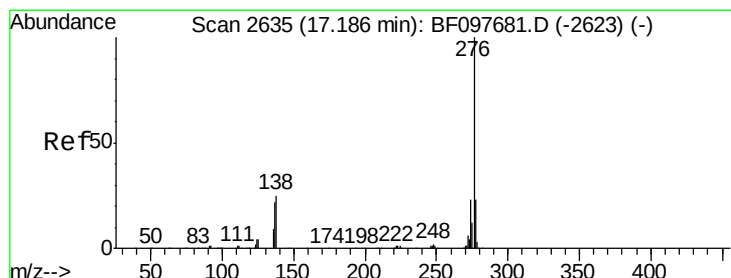
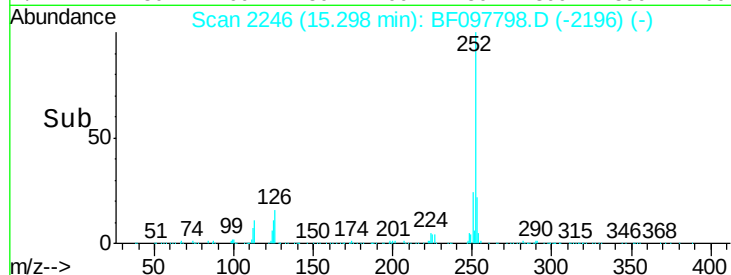
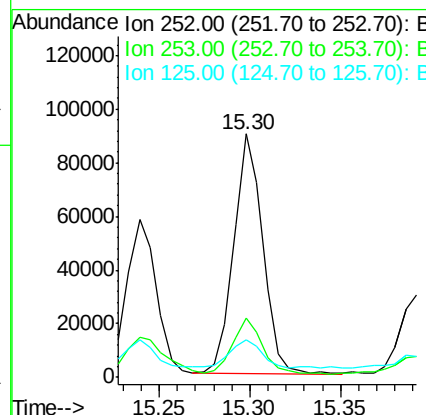
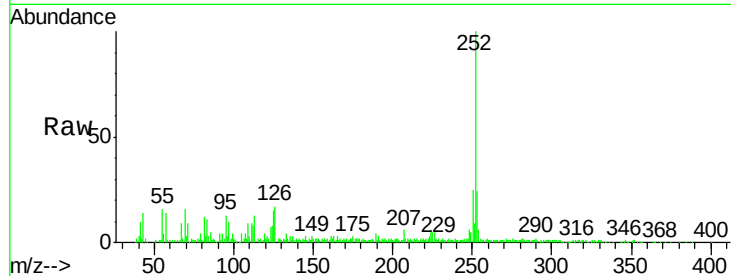




#89
Benzo(a)pyrene
Concen: 8.93 ng
RT: 15.30 min Scan# 2246
Delta R.T. -0.01 min
Lab File: BF097798.D
Acq: 17 Aug 2017 20:55

Instrument :
BNA_F
ClientSampleId :
TR-05-081517-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.5	26.3
125	15.4	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 6.79 ng
RT: 17.18 min Scan# 2566
Delta R.T. -0.01 min
Lab File: BF097798.D
Acq: 17 Aug 2017 20:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.4	18.6	28.0
138	27.3	25.4	38.0

