

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081917\
 Data File : BF097877.D
 Acq On : 19 Aug 2017 14:30
 Operator : SJ/JU
 Sample : I4846-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PI-2(3)

Quant Time: Aug 21 02:37:29 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	6.76	152	144479	20.00	ng	-0.02
21) Naphthalene-d8	8.05	136	603384	20.00	ng	-0.02
38) Acenaphthene-d10	9.79	164	277107	20.00	ng	-0.03
63) Phenanthrene-d10	11.27	188	485793	20.00	ng	-0.03
75) Chrysene-d12	13.90	240	279779	20.00	ng	-0.04
86) Perylene-d12	15.33	264	255908	20.00	ng	-0.04

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	613491	64.59	ng	-0.02
7) Phenol-d6	6.39	99	846491	65.59	ng	-0.02
23) Nitrobenzene-d5	7.32	82	548772	49.41	ng	-0.03
41) 2,4,6-Tribromophenol	10.58	330	242250	100.75	ng	-0.03
44) 2-Fluorobiphenyl	9.12	172	852974	45.22	ng	-0.02
78) Terphenyl-d14	12.87	244	1184851	88.31	ng	-0.02

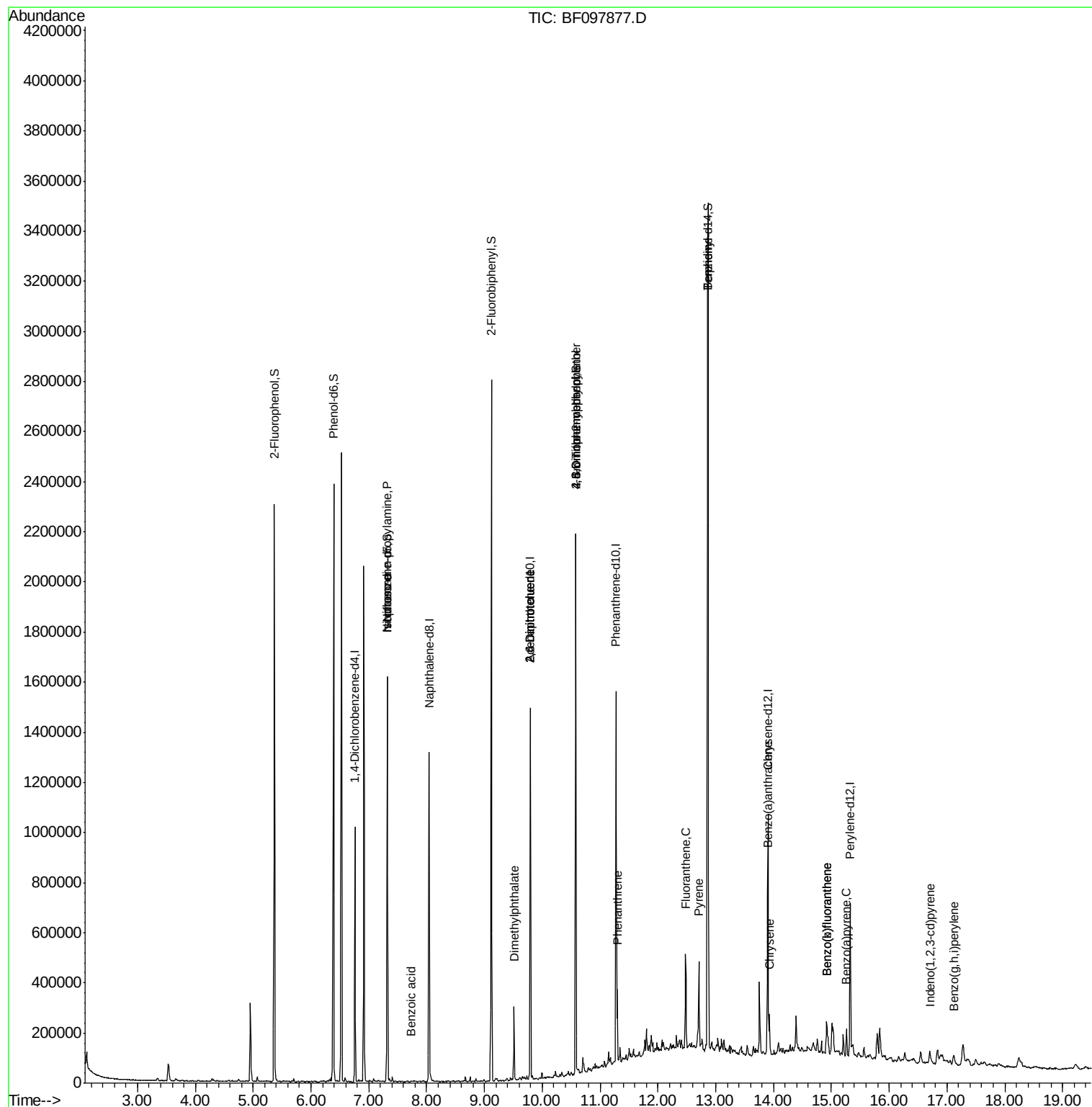
Target Compounds						Qvalue	
19) n-Nitroso-di-n-propylamine	7.32	70	73519	8.32	ng	#	72
25) Isophorone	7.32	82	544746	23.59	ng	#	67
32) Benzoic acid	7.73	122	256	6.44	ng	#	48
49) Dimethylphthalate	9.51	163	91628	4.52	ng		99
50) 2,6-Dinitrotoluene	9.79	165	35209	8.71	ng	#	33
56) 2,4-Dinitrotoluene	9.79	165	35209	6.94	ng	#	32
64) 4,6-Dinitro-2-methylphenol	10.58	198	674	8.56	ng	#	1
66) 4-Bromophenyl-phenylether	10.58	248	15591	3.09	ng	#	1
70) Phenanthrene	11.30	178	90192	3.48	ng		99
74) Fluoranthene	12.48	202	136576	5.05	ng		99
76) Benzidine	12.86	184	18801	2.05	ng		96
77) Pyrene	12.71	202	128699	5.62	ng		97
80) Benzo(a)anthracene	13.89	228	54951	3.28	ng		98
82) Chrysene	13.93	228	54743	3.28	ng		96
85) Indeno(1,2,3-cd)pyrene	16.70	276	31827	2.59	ng		93
87) Benzo(b)fluoranthene	14.92	252	91220	5.66	ng		98
88) Benzo(k)fluoranthene	14.92	252	91220	6.02	ng		97
89) Benzo(a)pyrene	15.26	252	47848	3.35	ng		97
91) Benzo(a,h,i)perylene	17.12	276	29354	2.42	ng	#	87

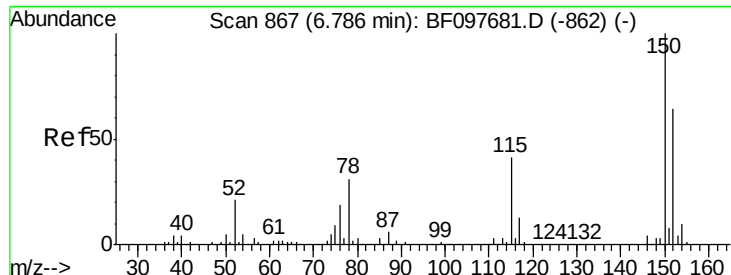
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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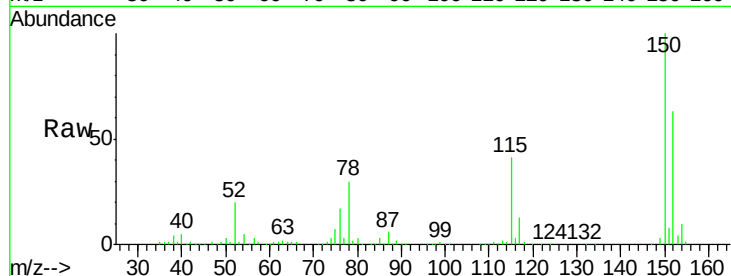


#1

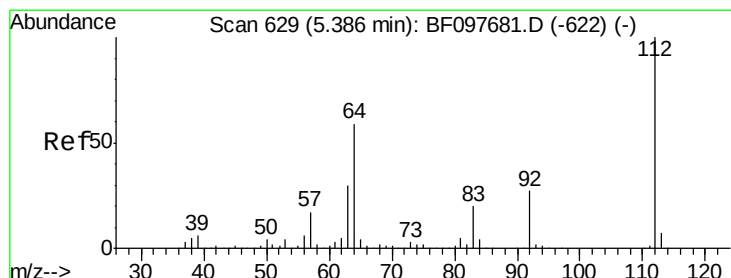
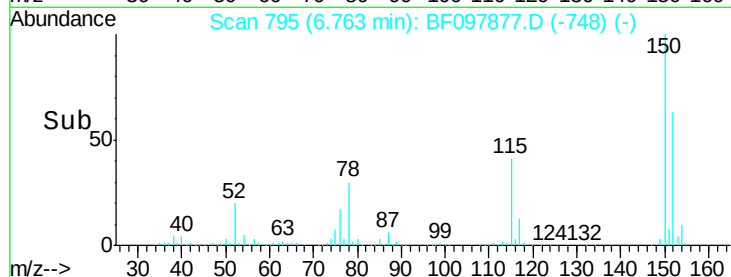
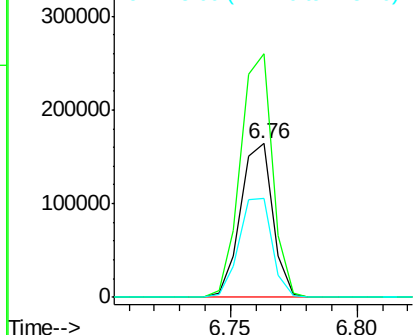
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 795
Delta R.T. -0.02 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

Instrument :
BNA_F
ClientSampleId :
PI-2(3)

Tot Ion:152 Resp: 144479
Ion Ratio Lower Upper
152 100
150 158.3 126.2 189.2
115 64.2 52.2 78.2



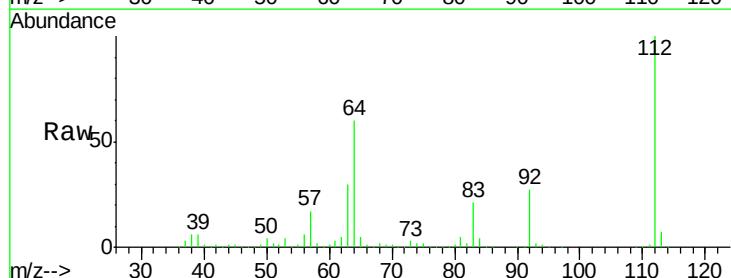
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



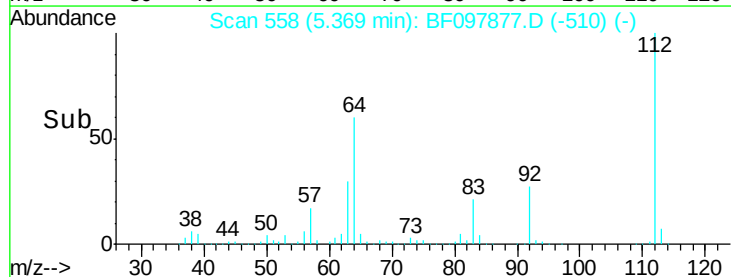
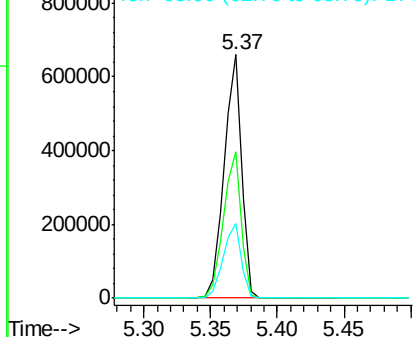
#5

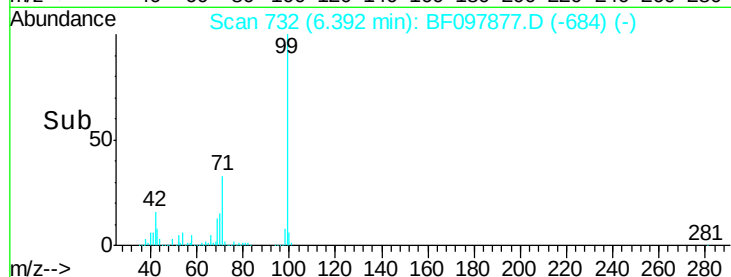
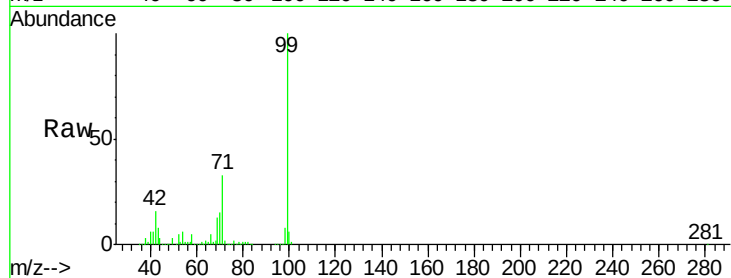
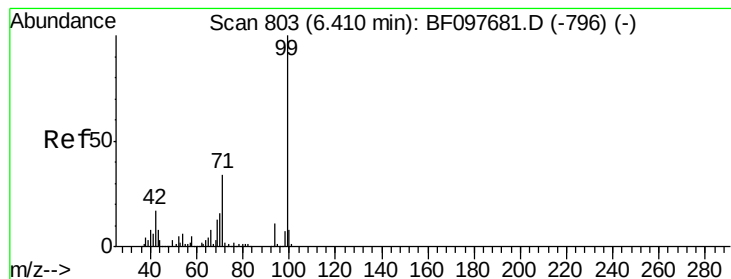
2-Fluorophenol
Concen: 64.59 ng
RT: 5.37 min Scan# 558
Delta R.T. -0.02 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

Tgt Ion:112 Resp: 613491
Ion Ratio Lower Upper
112 100
64 60.0 46.0 69.0
63 30.5 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: 65.59 ng

RT: 6.39 min Scan# 732

Delta R.T. -0.02 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)

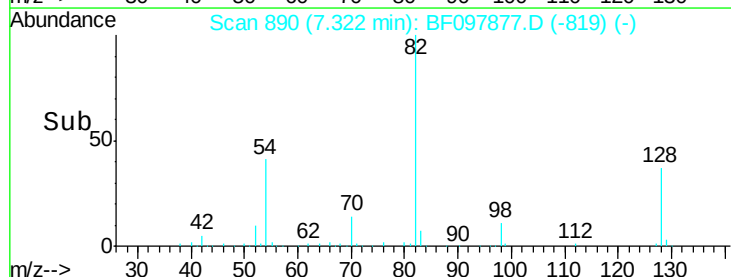
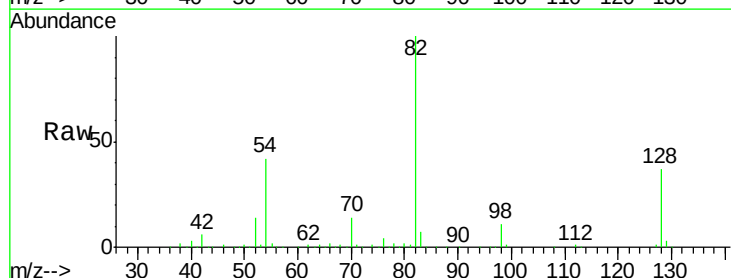
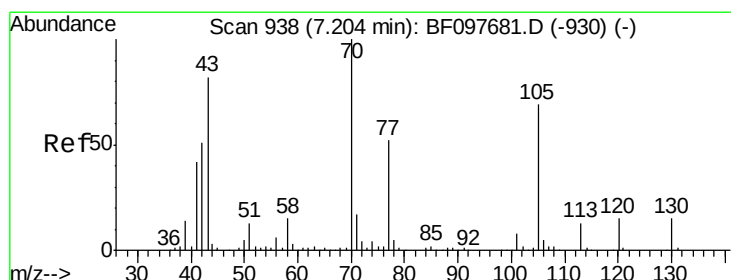
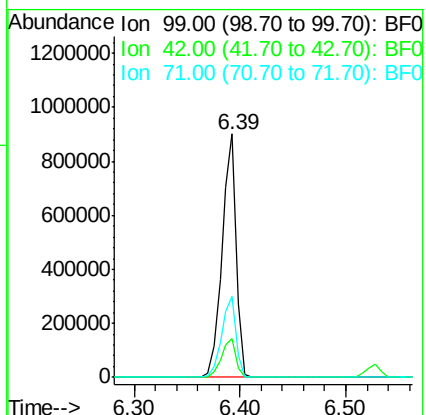
Tot Ion: 99 Resp: 846491

Ion Ratio Lower Upper

99 100

42 15.9 13.5 20.3

71 33.1 24.5 36.7



#19

n-Nitroso-di-n-propylamine

Concen: 8.32 ng

RT: 7.32 min Scan# 890

Delta R.T. 0.12 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Tgt Ion: 70 Resp: 73519

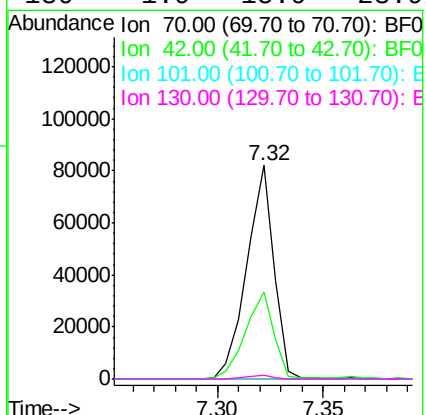
Ion Ratio Lower Upper

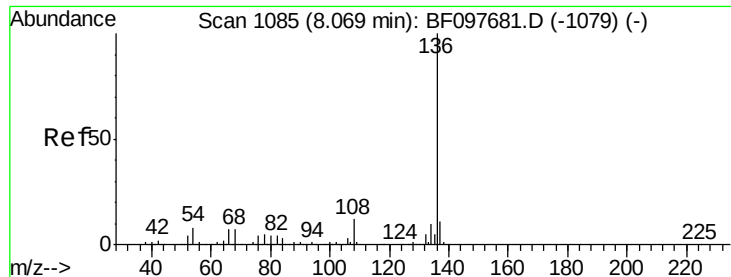
70 100

42 41.0 47.2 70.8#

101 0.0 7.2 10.8#

130 1.9 15.9 23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 1013

Delta R.T. -0.02 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)

Tot Ion:136 Resp: 603384

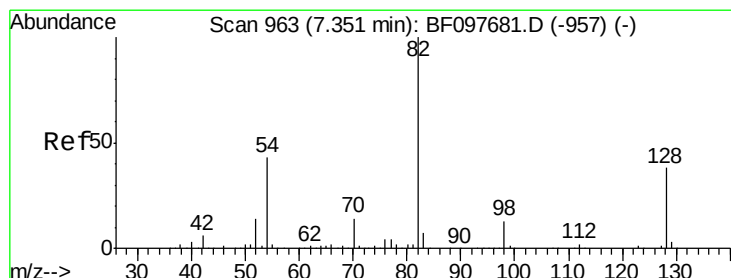
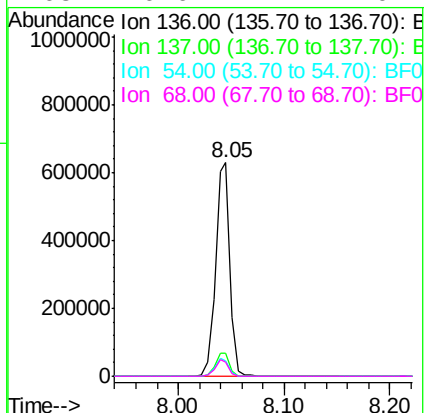
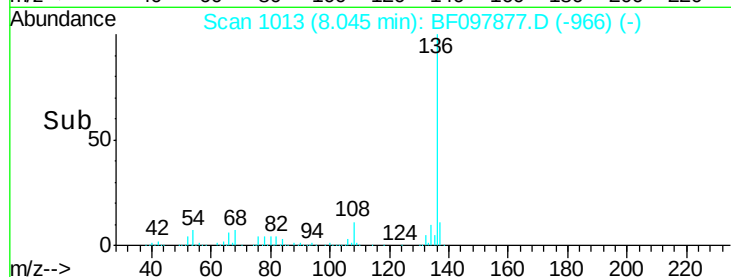
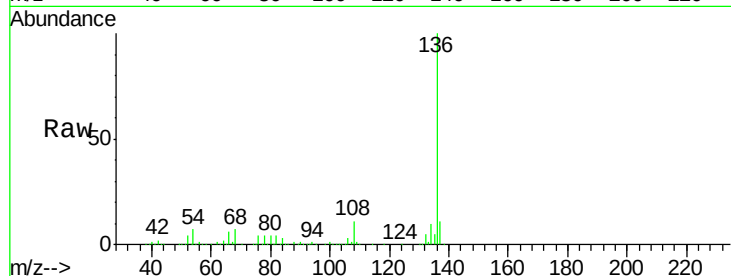
Ion Ratio Lower Upper

136 100

137 10.7 8.5 12.7

54 7.1 4.9 7.3

68 6.6 4.1 6.1#



#23

Nitrobenzene-d5

Concen: 49.41 ng

RT: 7.32 min Scan# 890

Delta R.T. -0.03 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

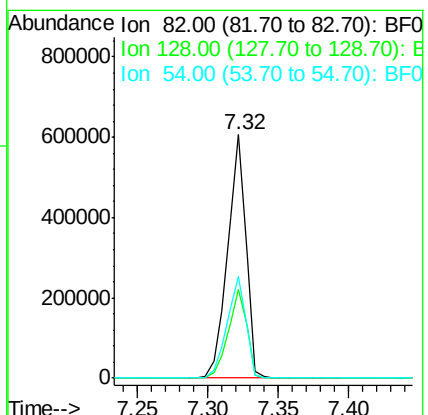
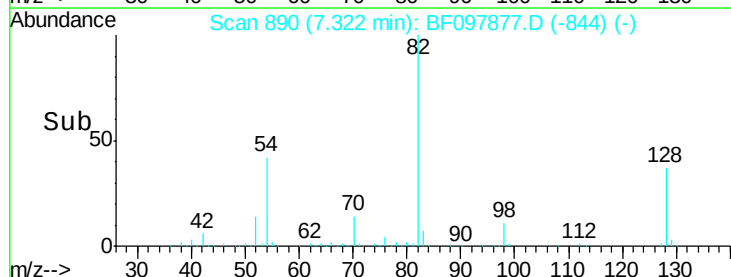
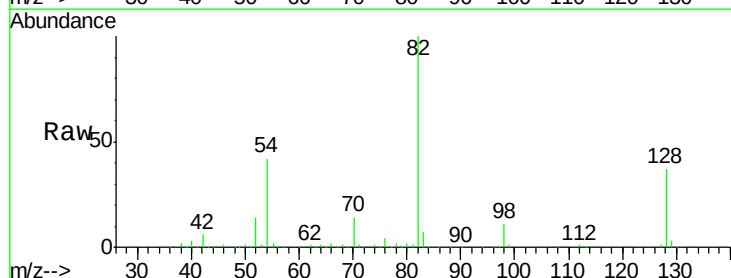
Tgt Ion: 82 Resp: 548772

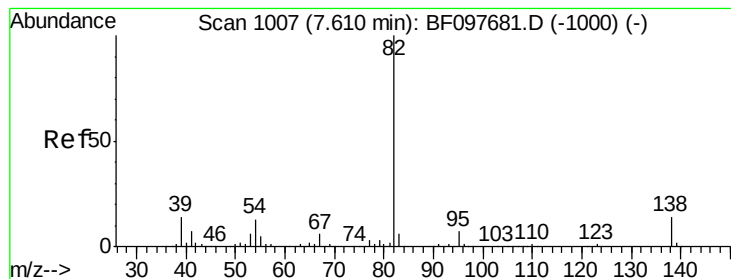
Ion Ratio Lower Upper

82 100

128 36.6 34.0 51.0

54 41.9 42.2 63.2#





#25

Isophorone

Concen: 23.59 ng

RT: 7.32 min Scan# 890

Delta R.T. -0.29 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)

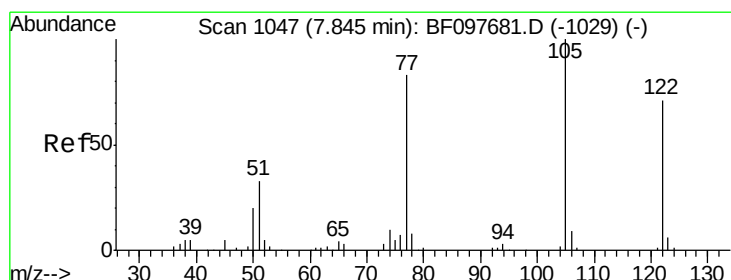
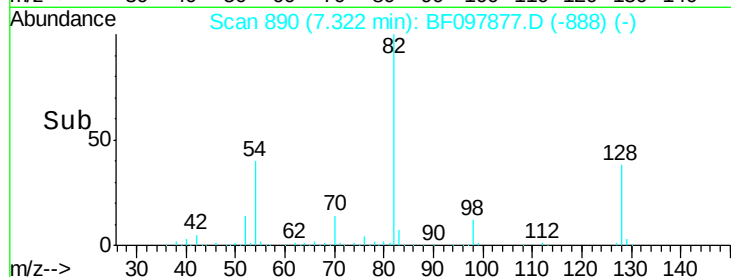
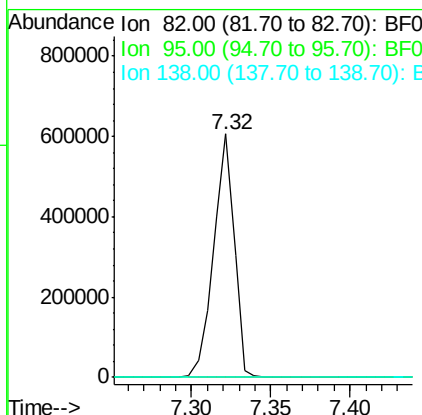
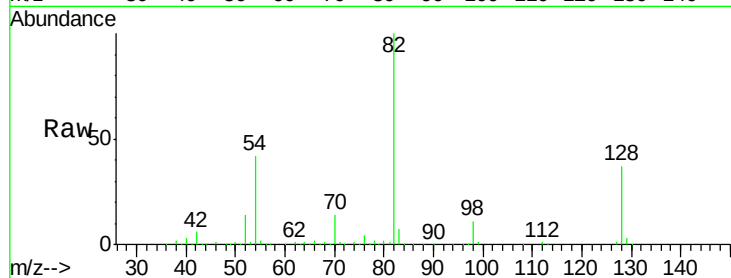
Tot Ion: 82 Resp: 544746

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#32

Benzoic acid

Concen: 6.44 ng

RT: 7.73 min Scan# 960

Delta R.T. -0.11 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

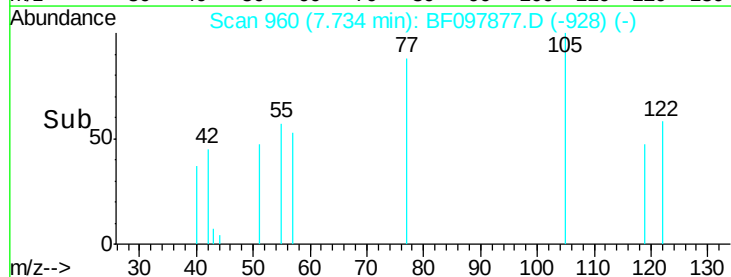
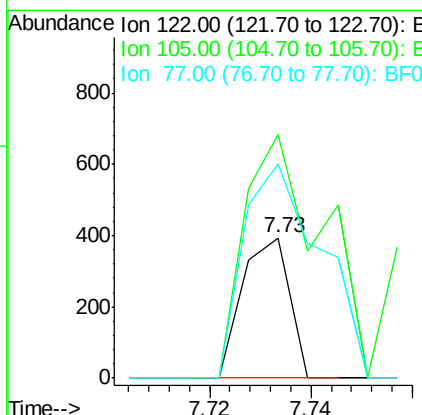
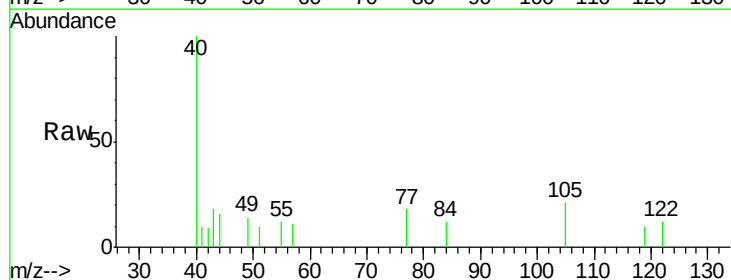
Tgt Ion: 122 Resp: 256

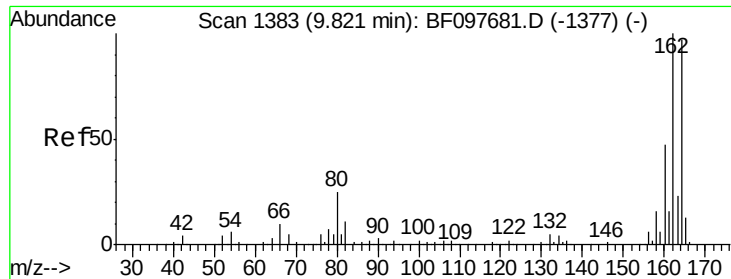
Ion Ratio Lower Upper

122 100

105 173.4 103.3 143.3#

77 152.5 73.7 113.7#

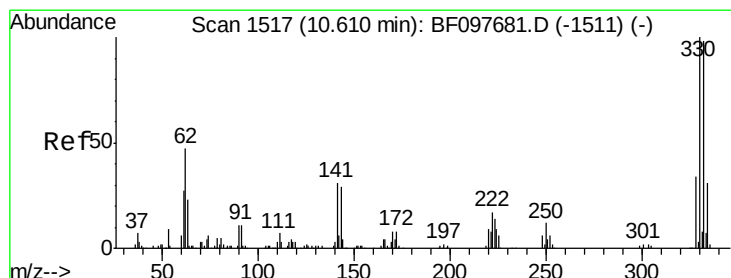
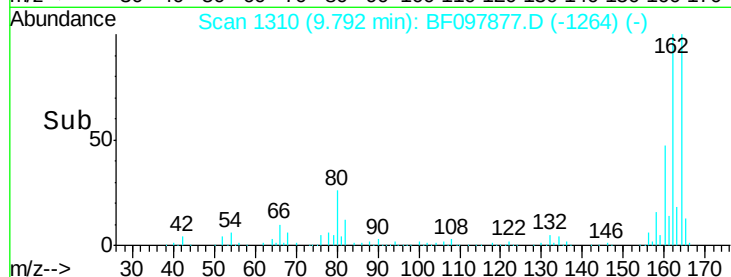
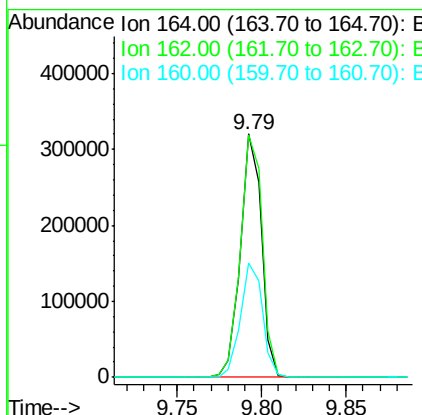
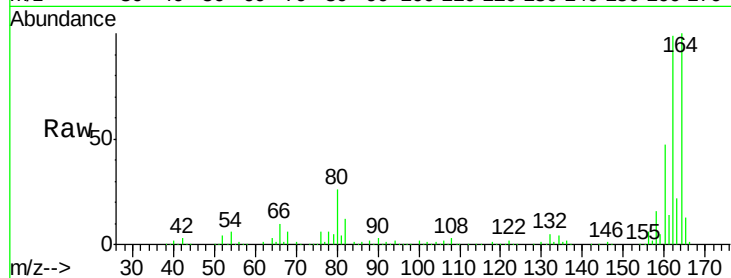




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.03 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

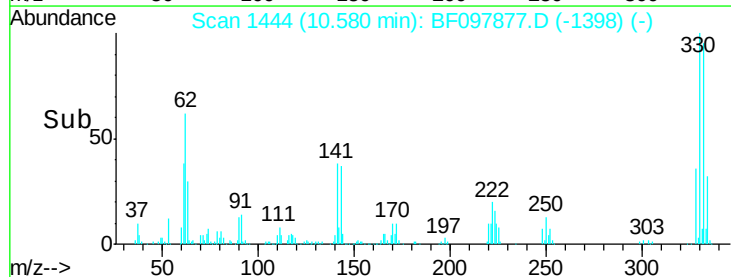
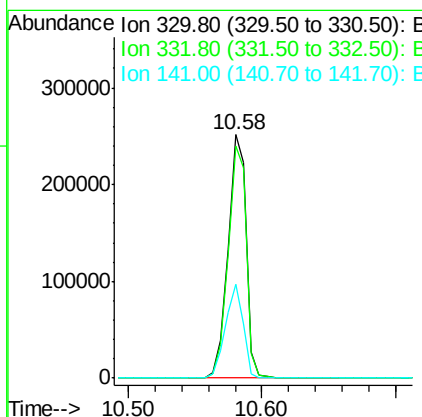
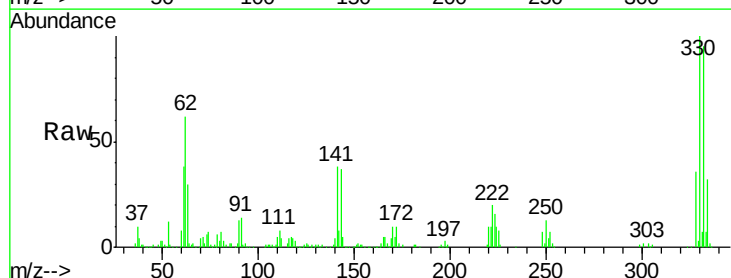
Instrument :
 BNA_F
 ClientSampleId :
 PI-2(3)

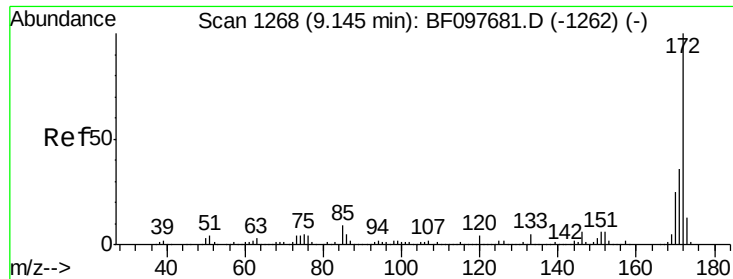
Tot Ion:164 Resp: 277107
 Ion Ratio Lower Upper
 164 100
 162 99.3 82.6 123.8
 160 47.2 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 100.75 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. -0.03 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

Tgt Ion:330 Resp: 242250
 Ion Ratio Lower Upper
 330 100
 332 96.0 76.6 115.0
 141 38.3 31.4 47.2

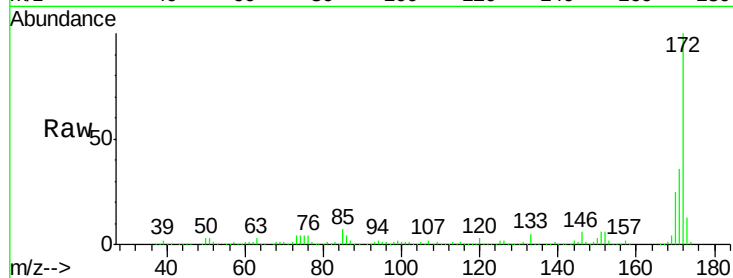




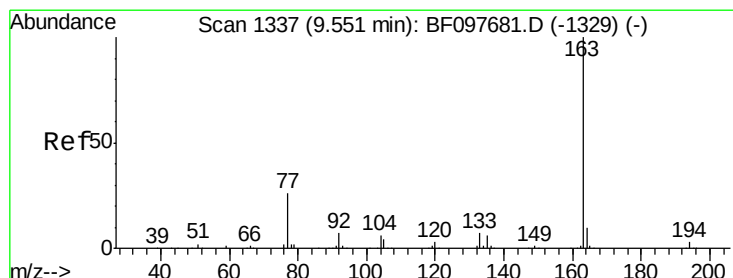
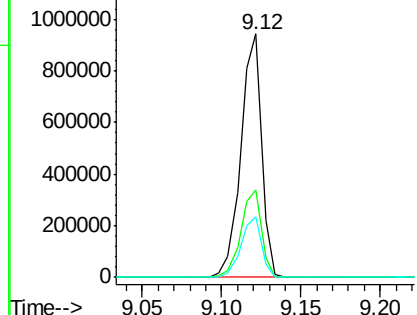
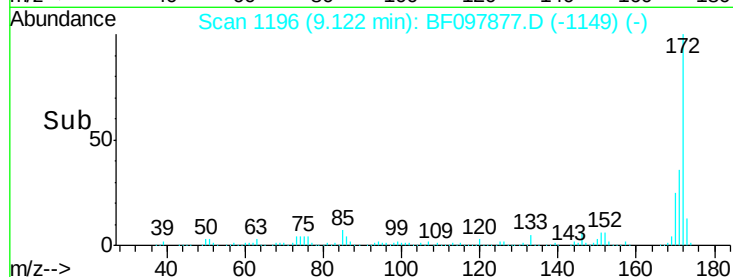
#44
 2-Fluorobiphenyl
 Concen: 45.22 ng
 RT: 9.12 min Scan# 1196
 Delta R.T. -0.02 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

Instrument :
 BNA_F
 ClientSampleId :
 PI-2(3)

Tot Ion:172 Resp: 852974
 Ion Ratio Lower Upper
 172 100
 171 36.0 29.6 44.4
 170 24.8 19.8 29.8

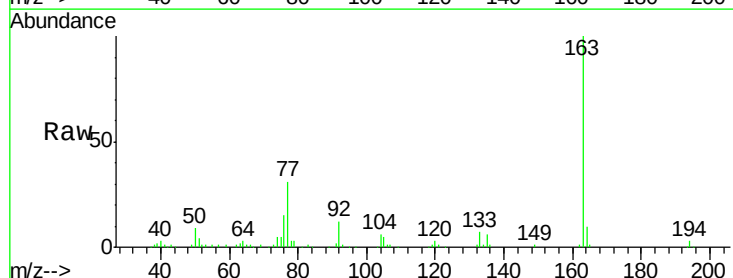


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

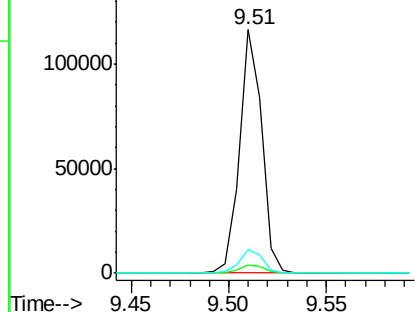
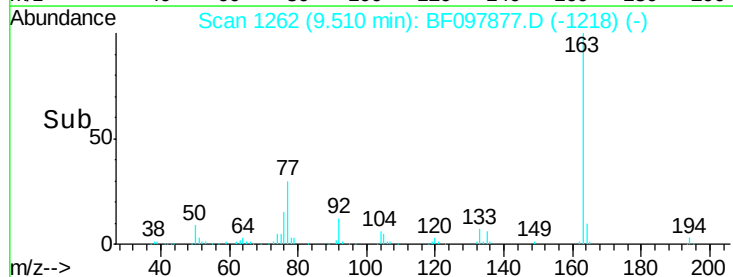


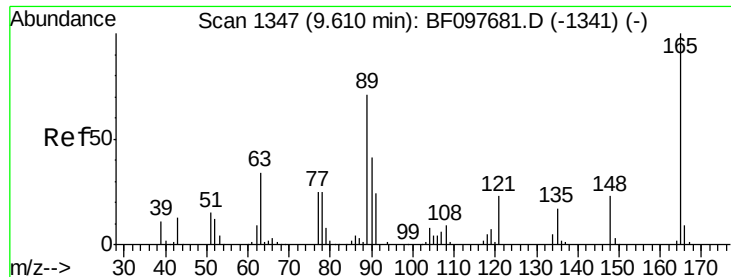
#49
 Dimethylphthalate
 Concen: 4.52 ng
 RT: 9.51 min Scan# 1262
 Delta R.T. -0.04 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

Tgt Ion:163 Resp: 91628
 Ion Ratio Lower Upper
 163 100
 194 3.3 2.6 4.0
 164 9.8 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

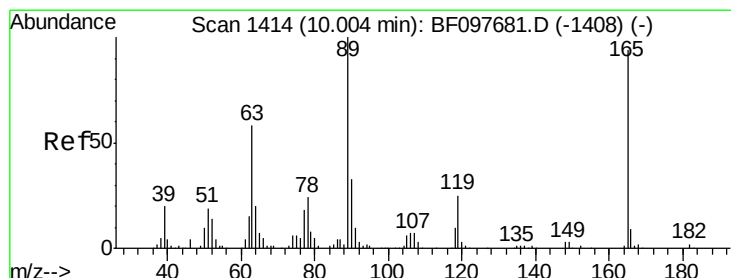
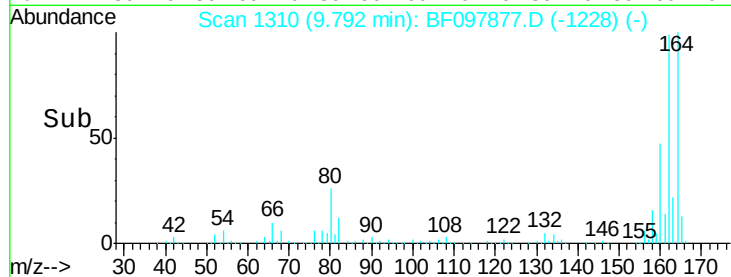
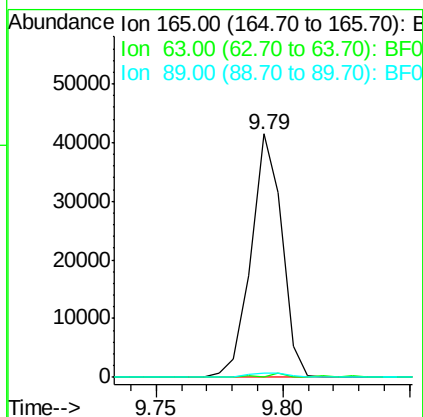
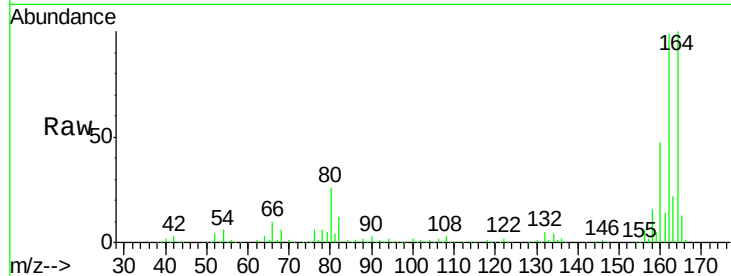




#50
 2,6-Dinitrotoluene
 Concen: 8.71 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. 0.18 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

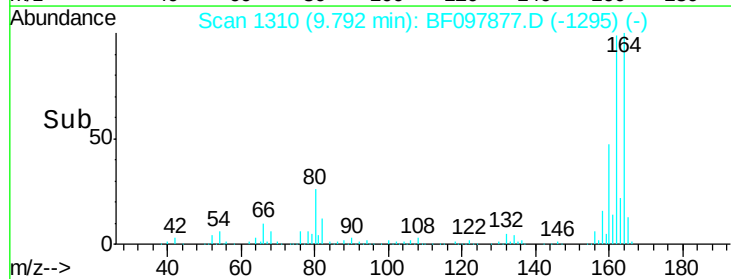
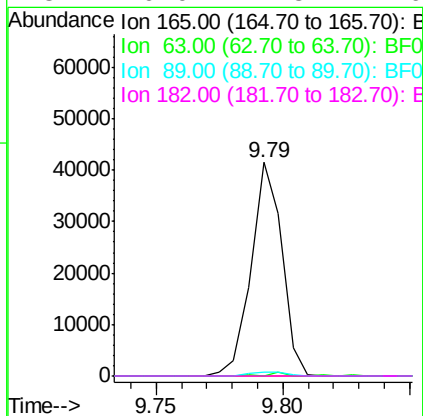
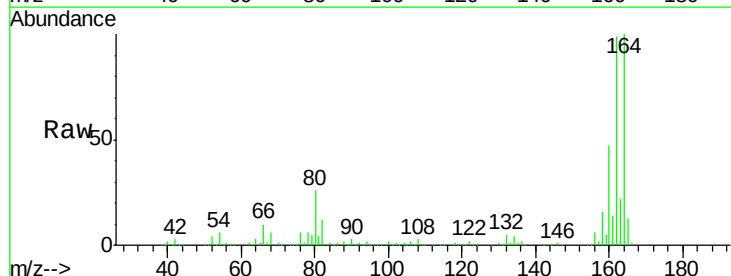
Instrument :
 BNA_F
 ClientSampled :
 PI-2(3)

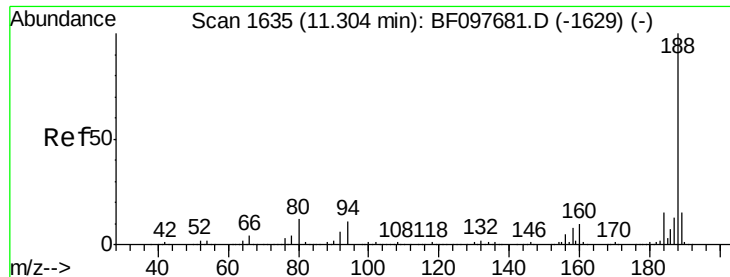
Tot Ion:165	Resp:	35209
Ion Ratio	Lower	Upper
165	100	
63	0.0	34.3 51.5#
89	1.8	37.1 55.7#



#56
 2,4-Dinitrotoluene
 Concen: 6.94 ng
 RT: 9.79 min Scan# 1310
 Delta R.T. -0.21 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

Tgt Ion:165	Resp:	35209
Ion Ratio	Lower	Upper
165	100	
63	0.0	25.4 38.0#
89	1.8	46.4 69.6#
182	0.0	1.8 2.6#

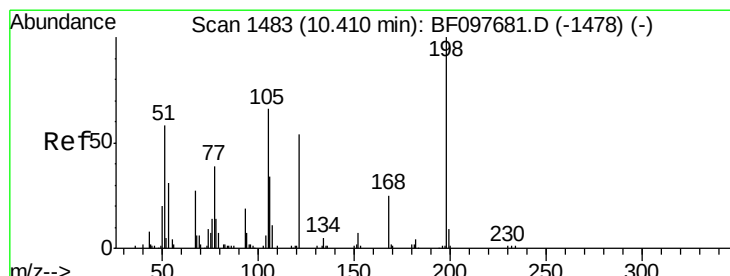
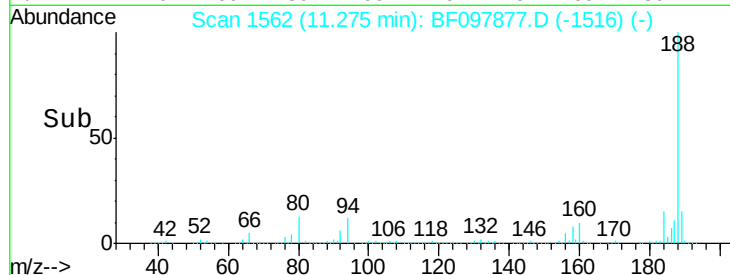
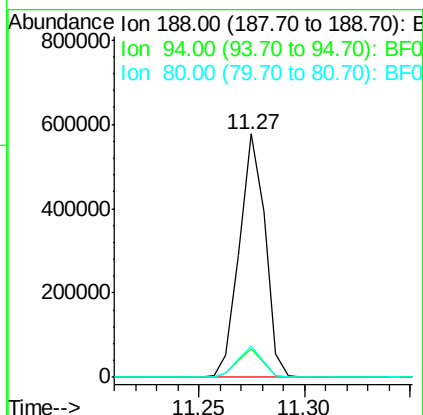
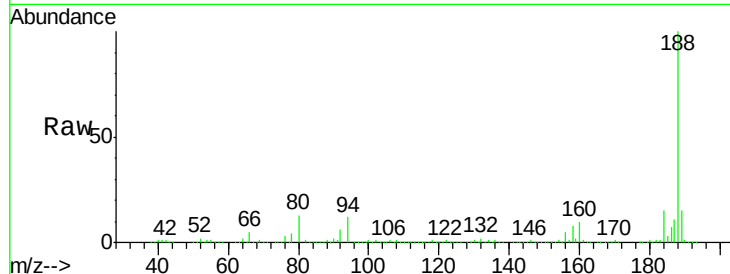




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.03 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

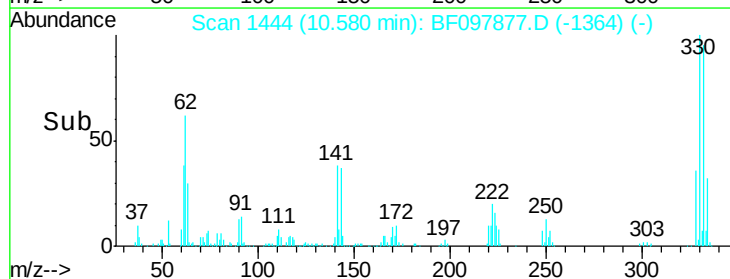
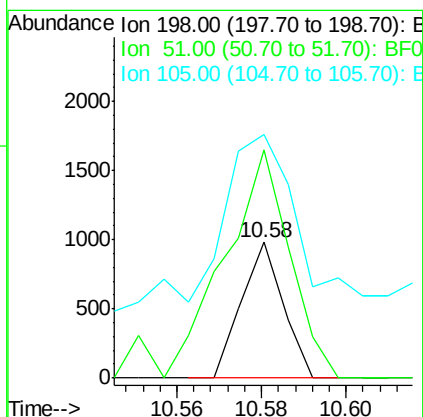
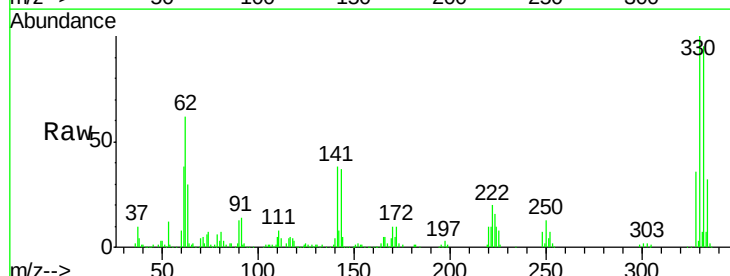
Instrument :
BNA_F
ClientSampleId :
PI-2(3)

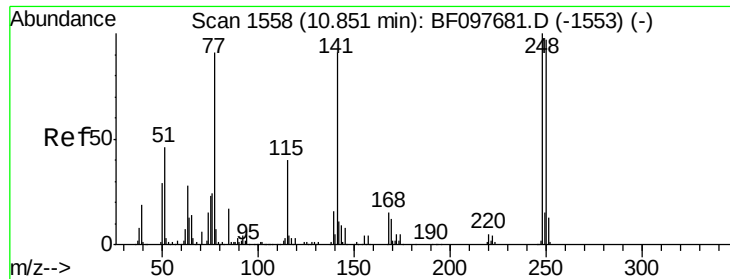
Tot Ion:188 Resp: 485793
Ion Ratio Lower Upper
188 100
94 12.0 9.4 14.2
80 12.8 10.2 15.2



#64
4,6-Dinitro-2-methylphenol
Concen: 8.56 ng
RT: 10.58 min Scan# 1444
Delta R.T. 0.17 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

Tgt Ion:198 Resp: 674
Ion Ratio Lower Upper
198 100
51 168.4 53.2 93.2#
105 179.4 45.8 85.8#

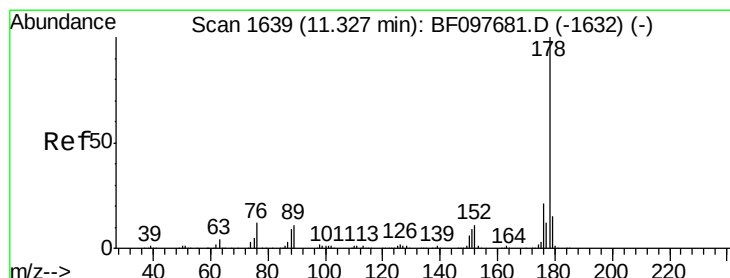
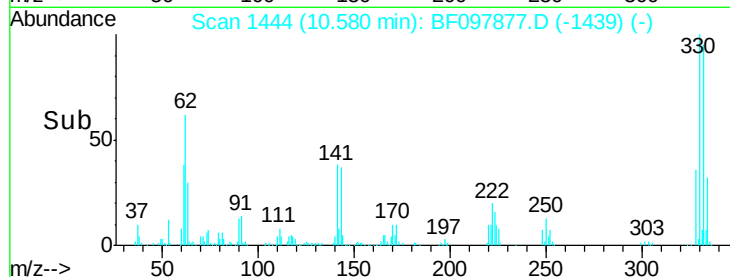
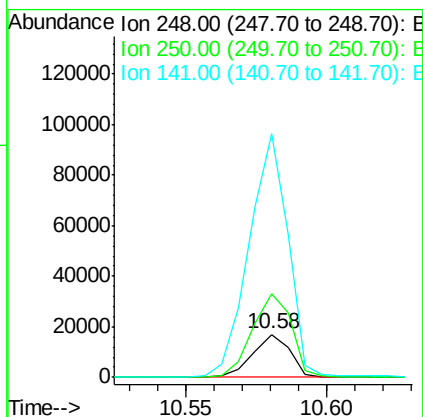
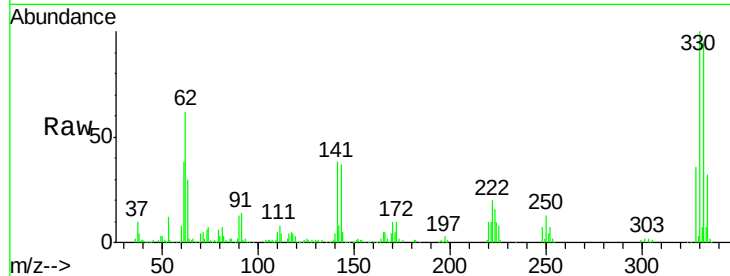




#66
 4-Bromophenyl-phenylether
 Concen: 3.09 ng
 RT: 10.58 min Scan# 1444
 Delta R.T. -0.27 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

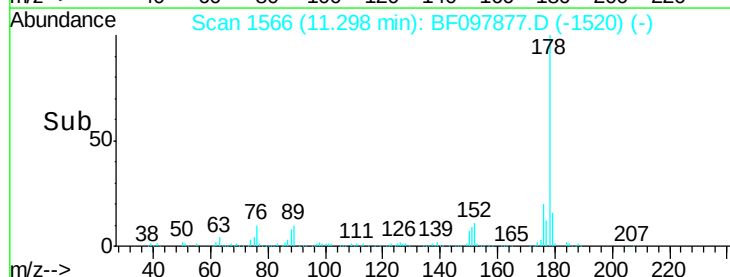
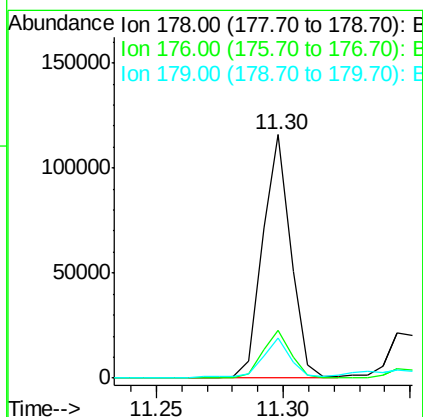
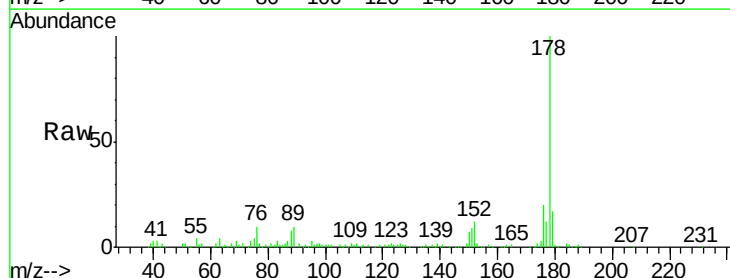
Instrument :
 BNA_F
 ClientSampleId :
 PI-2(3)

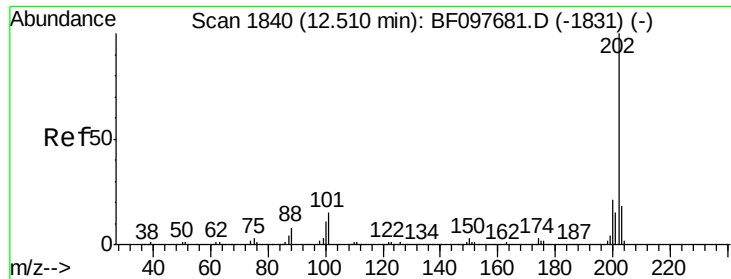
Tot Ion:248 Resp: 15591
 Ion Ratio Lower Upper
 248 100
 250 194.9 76.8 115.2#
 141 564.3 68.6 103.0#



#70
 Phenanthrene
 Concen: 3.48 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.03 min
 Lab File: BF097877.D
 Acq: 19 Aug 2017 14:30

Tgt Ion:178 Resp: 90192
 Ion Ratio Lower Upper
 178 100
 176 19.7 16.2 24.4
 179 16.5 12.6 19.0





#74

Fluoranthene

Concen: 5.05 ng

RT: 12.48 min Scan# 1767

Delta R.T. -0.03 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)

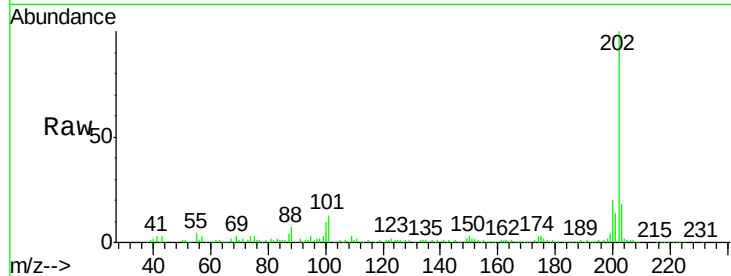
Tot Ion:202 Resp: 136576

Ion Ratio Lower Upper

202 100

101 12.9 0.0 33.2

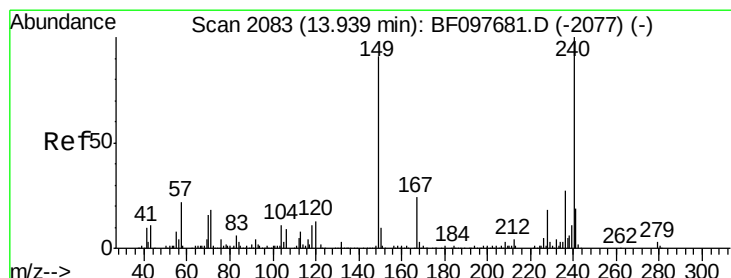
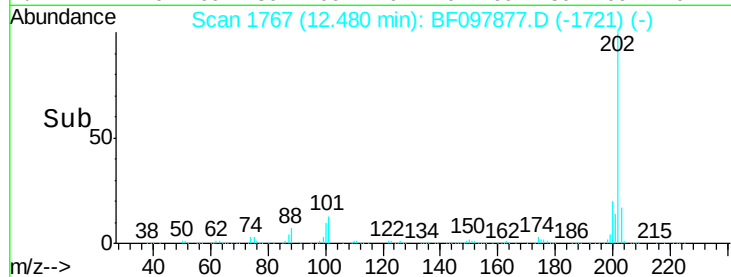
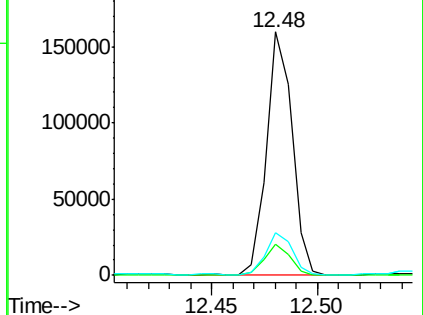
203 17.7 0.0 38.1



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: 13.90 min Scan# 2009

Delta R.T. -0.04 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

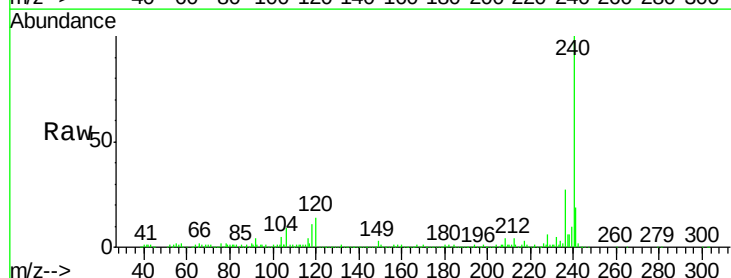
Tgt Ion:240 Resp: 279779

Ion Ratio Lower Upper

240 100

120 14.2 5.8 8.8#

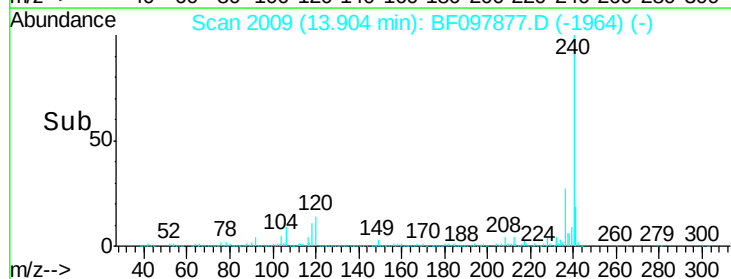
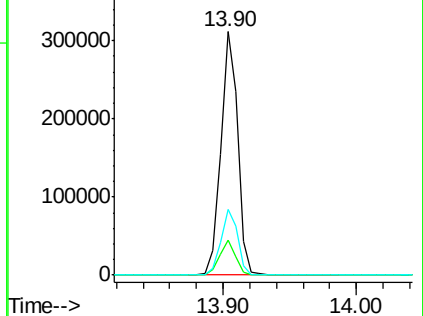
236 26.8 20.5 30.7

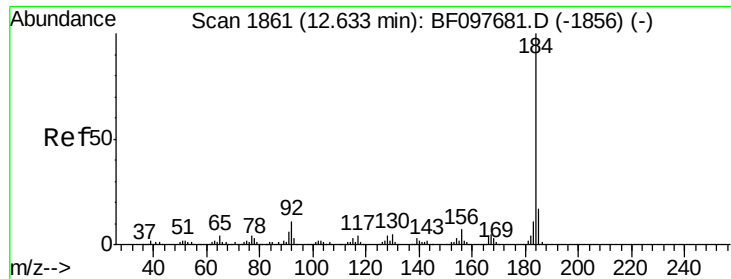


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 2.05 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.23 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)

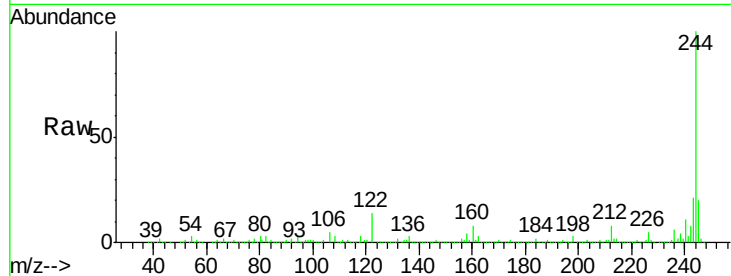
Tot Ion:184 Resp: 18801

Ion Ratio Lower Upper

184 100

185 17.7 15.5 23.3

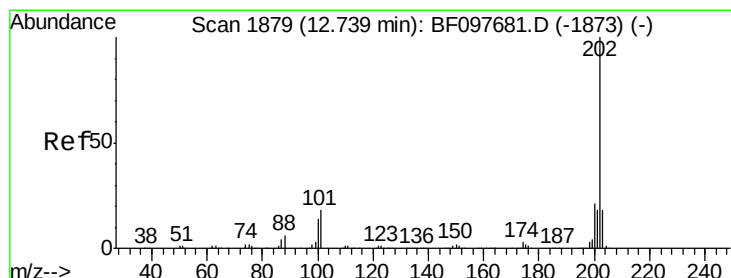
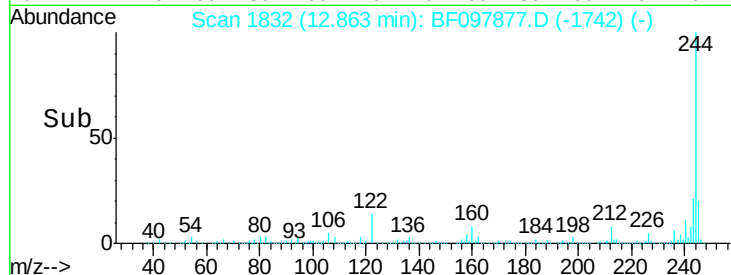
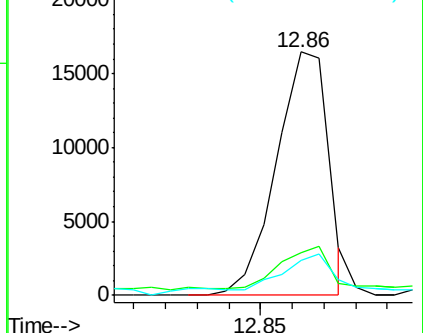
183 14.4 9.8 14.6



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#77

Pyrene

Concen: 5.62 ng

RT: 12.71 min Scan# 1806

Delta R.T. -0.03 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

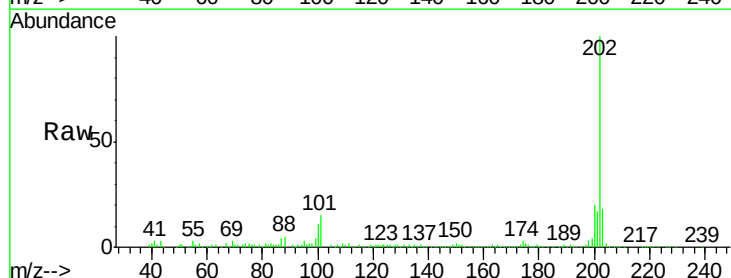
Tgt Ion:202 Resp: 128699

Ion Ratio Lower Upper

202 100

200 19.9 17.6 26.4

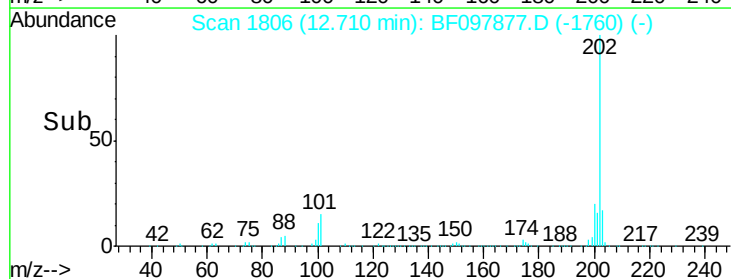
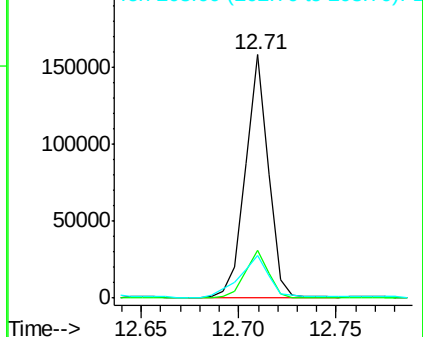
203 17.5 14.4 21.6

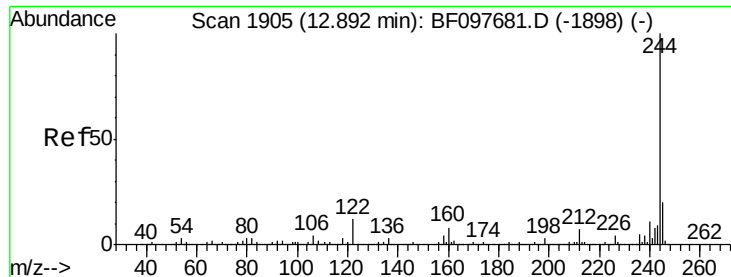


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 88.31 ng

RT: 12.87 min Scan# 1833

Delta R.T. -0.02 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleID :

PI-2(3)

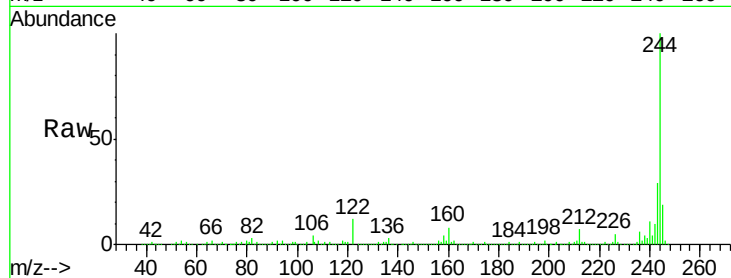
Tot Ion:244 Resp: 1184851

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

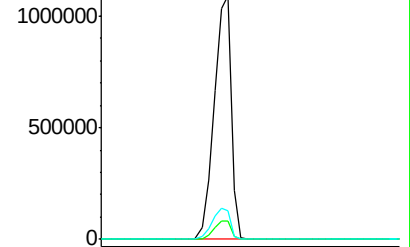
122 11.7 10.3 15.5



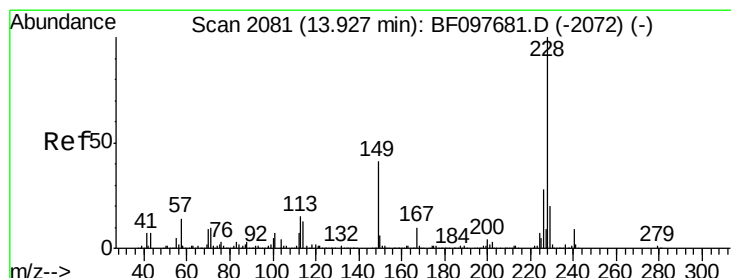
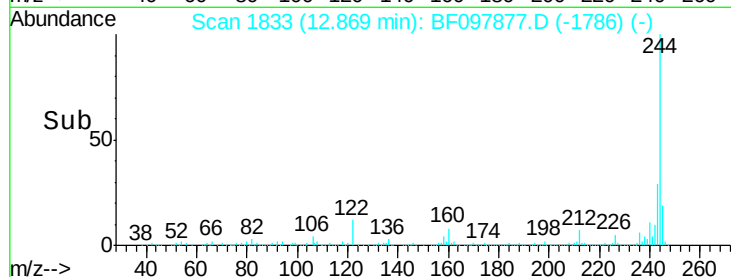
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->



#80

Benzo(a)anthracene

Concen: 3.28 ng

RT: 13.89 min Scan# 2007

Delta R.T. -0.04 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

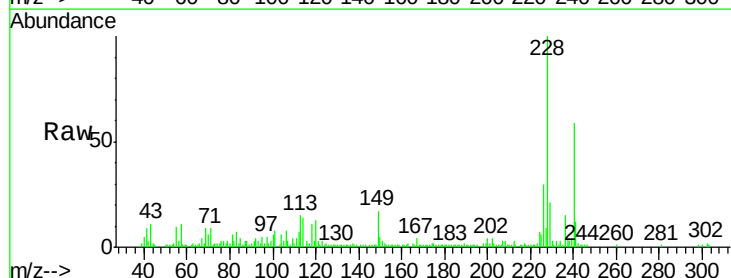
Tgt Ion:228 Resp: 54951

Ion Ratio Lower Upper

228 100

226 29.9 22.6 33.8

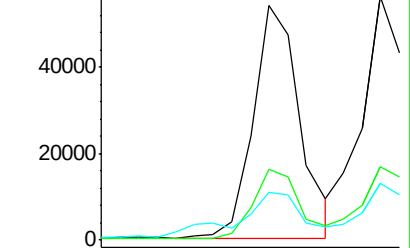
229 20.6 16.3 24.5



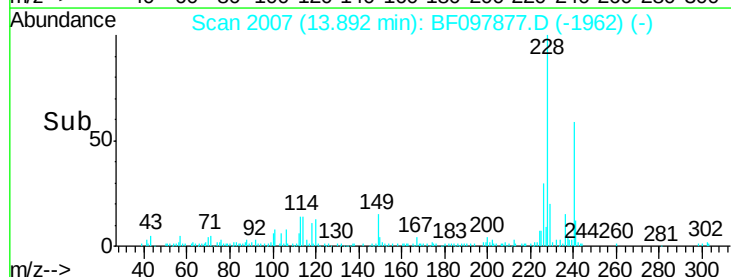
Abundance Ion 228.00 (227.70 to 228.70): E

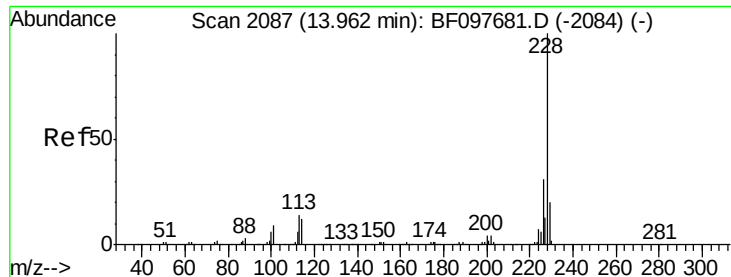
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



Time-->





#82

Chrysene

Concen: 3.28 ng

RT: 13.93 min Scan# 2013

Delta R.T. -0.04 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)

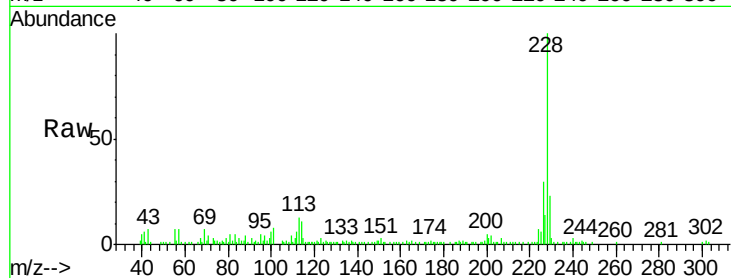
Tot Ion:228 Resp: 54743

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

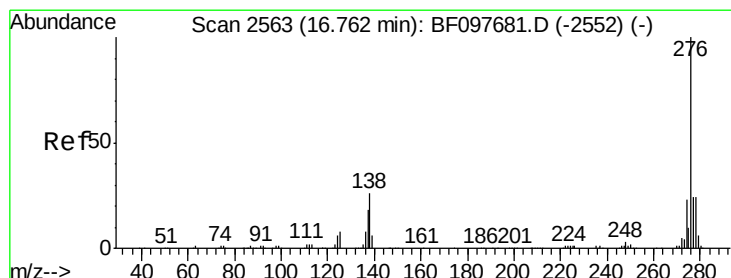
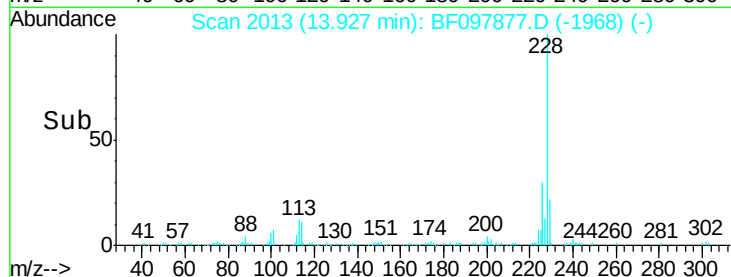
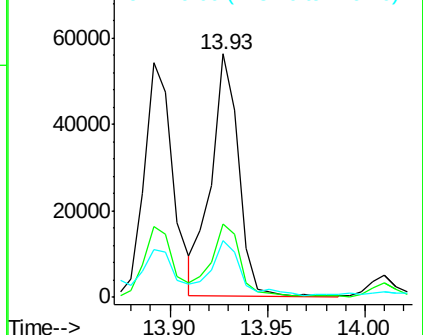
229 23.1 15.8 23.6



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: 2.59 ng

RT: 16.70 min Scan# 2485

Delta R.T. -0.06 min

Lab File: BF097877.D

Acq: 19 Aug 2017 14:30

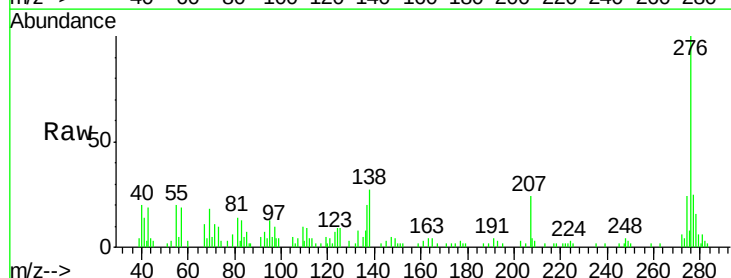
Tgt Ion:276 Resp: 31827

Ion Ratio Lower Upper

276 100

138 28.1 27.8 41.6

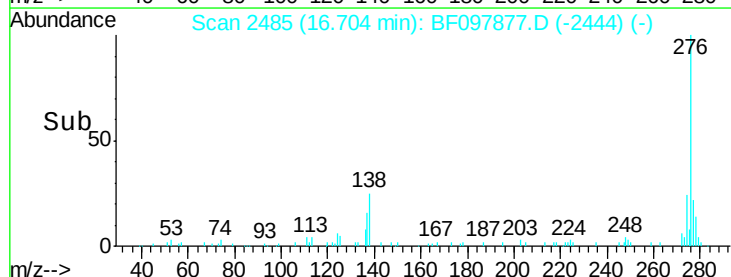
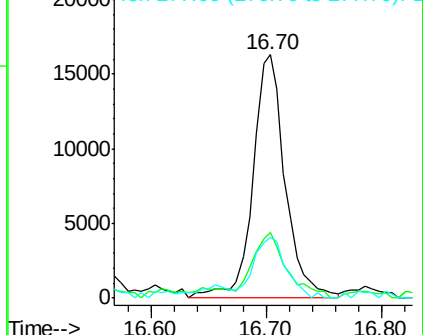
277 25.7 20.2 30.4

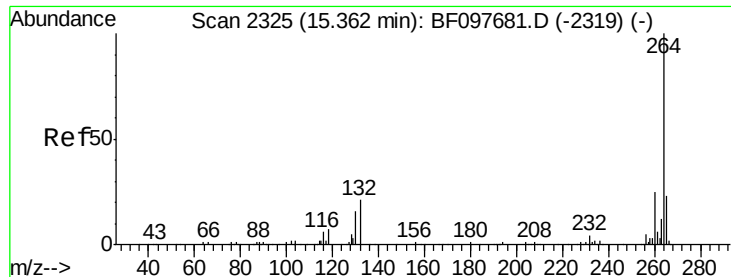


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



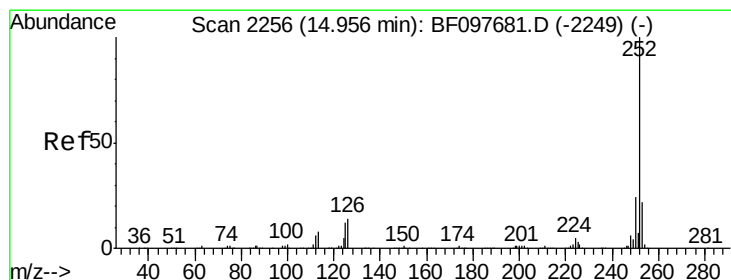
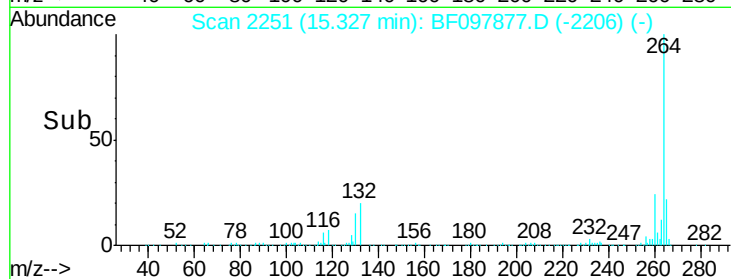
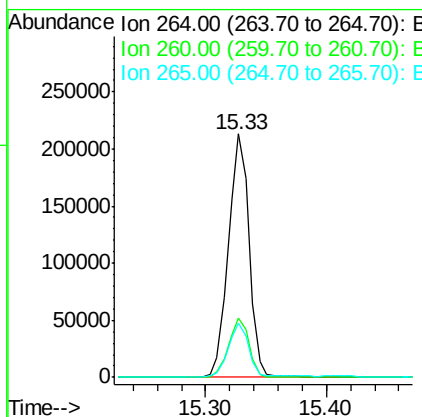
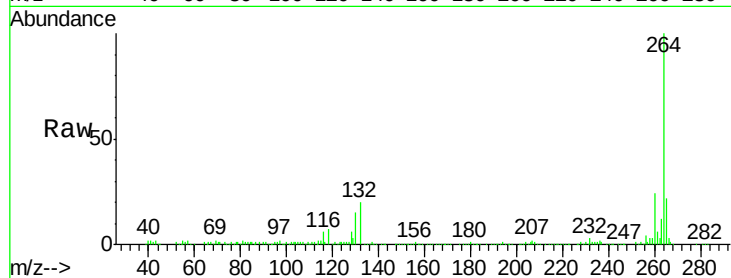


#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 2251
Delta R.T. -0.04 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

Instrument :
BNA_F
ClientSampleId :
PI-2(3)

Tot Ion:264 Resp: 255908

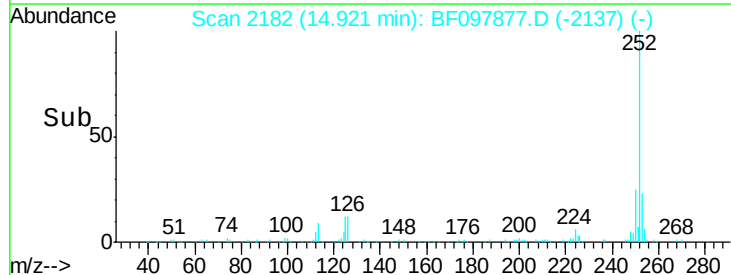
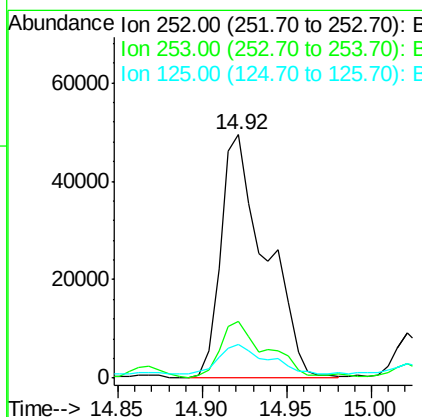
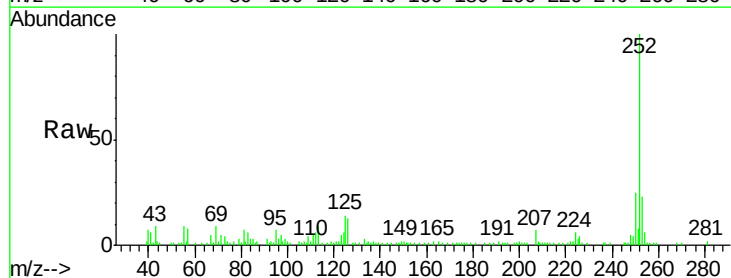
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	22.2	17.2	25.8

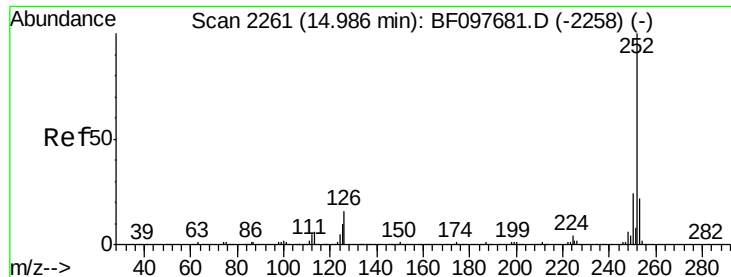


#87
Benzo(b)fluoranthene
Concen: 5.66 ng
RT: 14.92 min Scan# 2182
Delta R.T. -0.04 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

Tgt Ion:252 Resp: 91220

Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	13.9	9.8	14.8

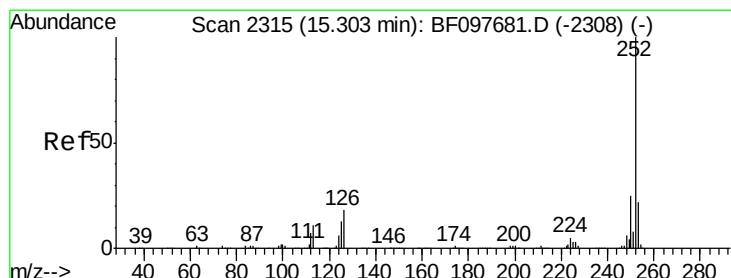
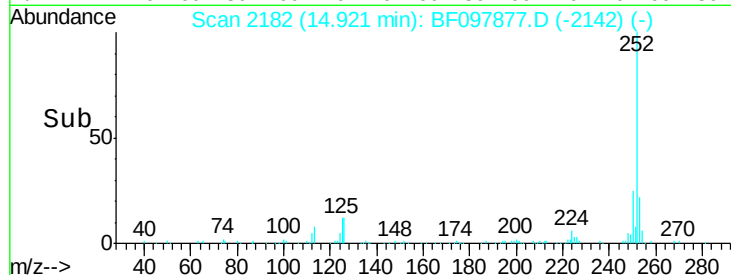
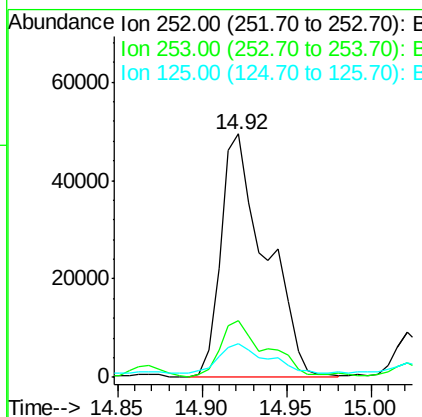
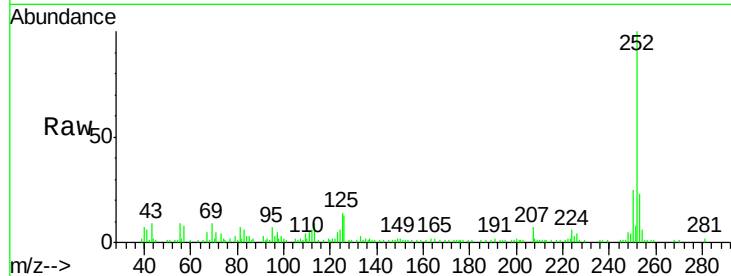




#88
Benzo(k)fluoranthene
Concen: 6.02 ng
RT: 14.92 min Scan# 2182
Delta R.T. -0.06 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

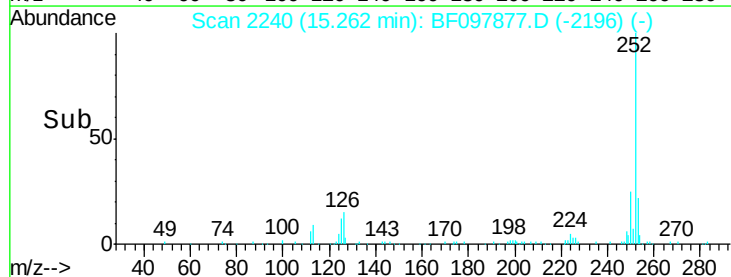
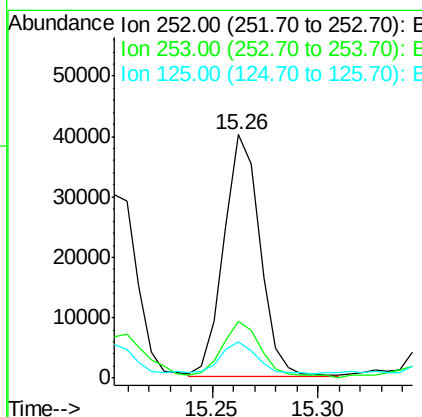
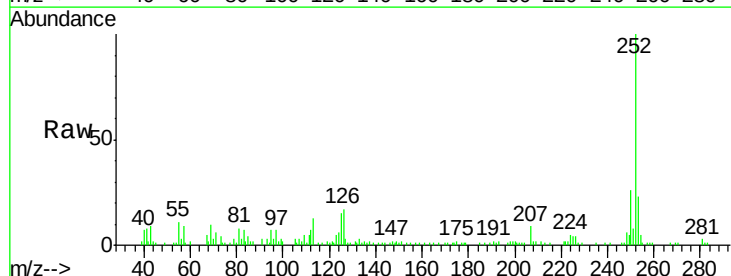
Instrument :
BNA_F
ClientSampleId :
PI-2(3)

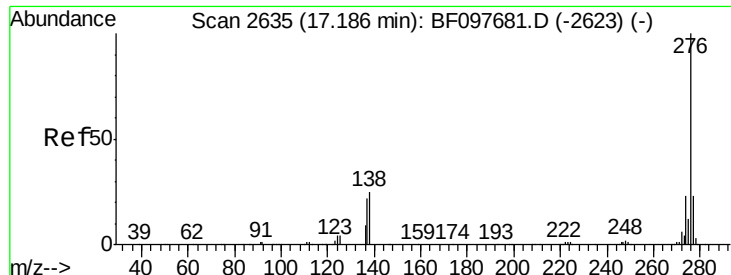
Tot Ion:252 Resp: 91220
Ion Ratio Lower Upper
252 100
253 23.1 18.4 27.6
125 13.9 13.1 19.7



#89
Benzo(a)pyrene
Concen: 3.35 ng
RT: 15.26 min Scan# 2240
Delta R.T. -0.04 min
Lab File: BF097877.D
Acq: 19 Aug 2017 14:30

Tgt Ion:252 Resp: 47848
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 14.8 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 2.42 ng

RT: 17.12 min Scan# 2556

Delta R.T. -0.06 min

Lab File: BF097877.D

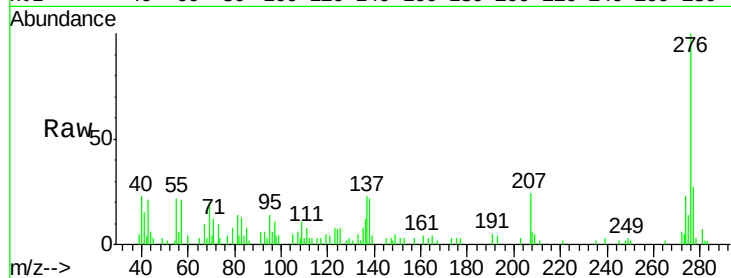
Acq: 19 Aug 2017 14:30

Instrument :

BNA_F

ClientSampleId :

PI-2(3)



Tot Ion:	276	Resp:	29354
Ion	Ratio	Lower	Upper
276	100		
277	26.6	18.6	28.0
138	22.3	25.4	38.0

