

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081817\
 Data File : BF097853.D
 Acq On : 19 Aug 2017 00:50
 Operator : SJ/JU
 Sample : I4949-02
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-13(0-10)COMP

Quant Time: Aug 19 01:39:19 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	121716	20.00	ng	-0.02
21) Naphthalene-d8	8.06	136	492098	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	221591	20.00	ng	-0.02
63) Phenanthrene-d10	11.29	188	426385	20.00	ng	-0.01
75) Chrysene-d12	13.92	240	313803	20.00	ng	-0.02
86) Perylene-d12	15.36	264	280654	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	712092	88.99	ng	-0.01
7) Phenol-d6	6.40	99	956712	87.99	ng	0.00
23) Nitrobenzene-d5	7.33	82	566576	62.55	ng	-0.02
41) 2,4,6-Tribromophenol	10.59	330	167981	87.37	ng	-0.02
44) 2-Fluorobiphenyl	9.13	172	712479	47.24	ng	-0.01
78) Terphenyl-d14	12.87	244	564698	37.53	ng	-0.02

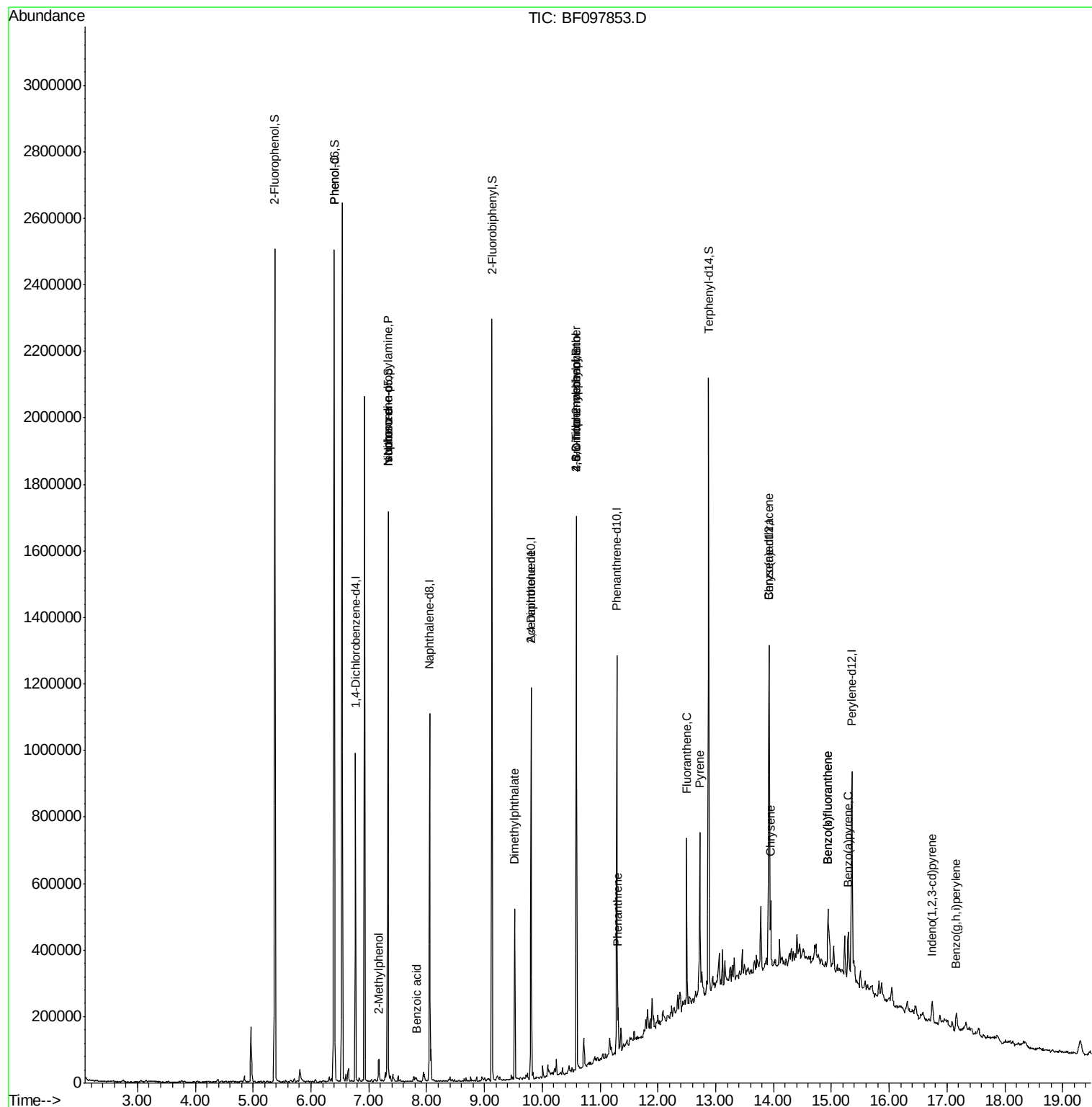
Target Compounds				Qvalue		
10) Phenol	6.41	94	34413	2.71	ng	93
17) 2-Methylphenol	7.17	107	15413	2.07	ng	# 76
19) n-Nitroso-di-n-propylamine	7.33	70	77033	10.35	ng	# 73
25) Isophorone	7.33	82	562792	29.88	ng	# 67
32) Benzoic acid	7.82	122	2280	6.75	ng	# 34
49) Dimethylphthalate	9.52	163	179250	11.07	ng	100
56) 2,4-Dinitrotoluene	9.80	165	28400	7.00	ng	# 33
64) 4,6-Dinitro-2-methylphenol	10.59	198	322	8.45	ng	# 1
66) 4-Bromophenyl-phenylether	10.59	248	11010	2.49	ng	# 1
70) Phenanthrene	11.31	178	56591	2.49	ng	99
74) Fluoranthene	12.50	202	183041	7.72	ng	99
77) Pyrene	12.73	202	189730	7.39	ng	98
80) Benzo(a)anthracene	13.92	228	84170	4.48	ng	98
82) Chrysene	13.95	228	83070	4.44	ng	96
85) Indeno(1,2,3-cd)pyrene	16.74	276	42343	3.08	ng	# 90
87) Benzo(b)fluoranthene	14.94	252	124086	7.01	ng	97
88) Benzo(k)fluoranthene	14.94	252	124086	7.47	ng	# 95
89) Benzo(a)pyrene	15.29	252	68243	4.36	ng	97
91) Benzo(a,h,i)perylene	17.16	276	41353	3.11	ng	92

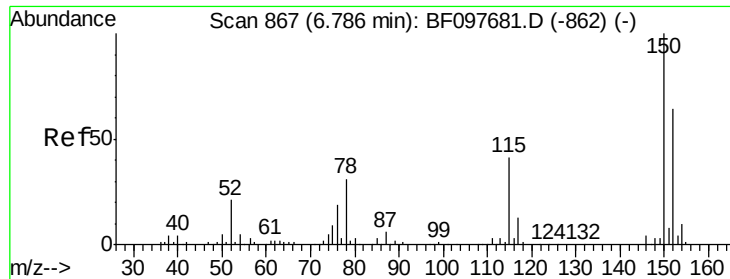
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.77 min Scan# 796

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

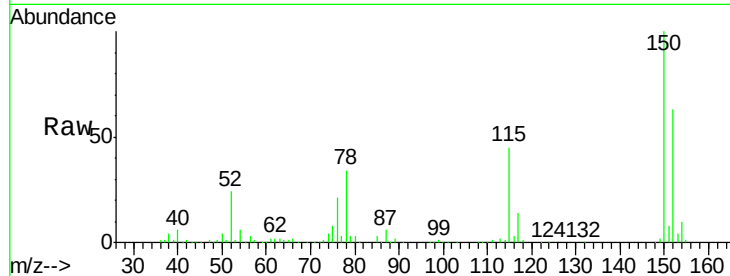
Tot Ion:152 Resp: 121716

Ion Ratio Lower Upper

152 100

150 158.9 126.2 189.2

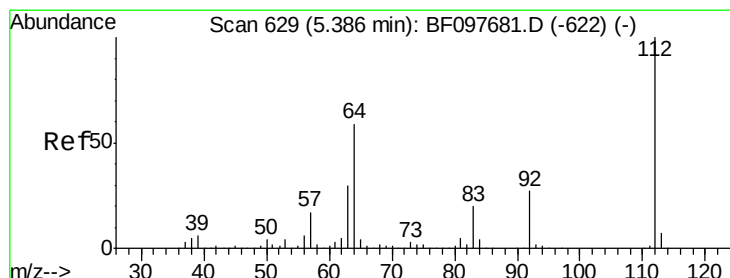
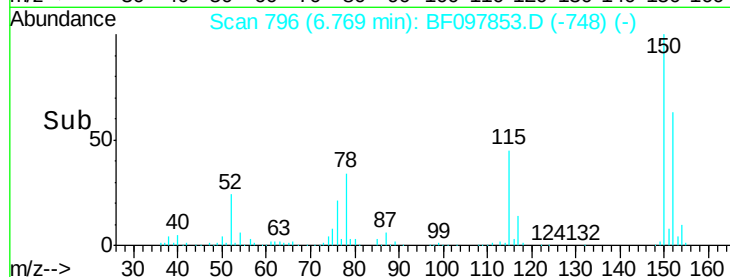
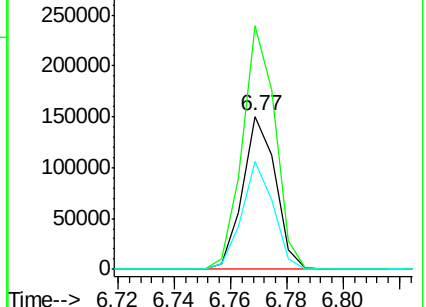
115 70.8 52.2 78.2



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: 88.99 ng

RT: 5.37 min Scan# 559

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

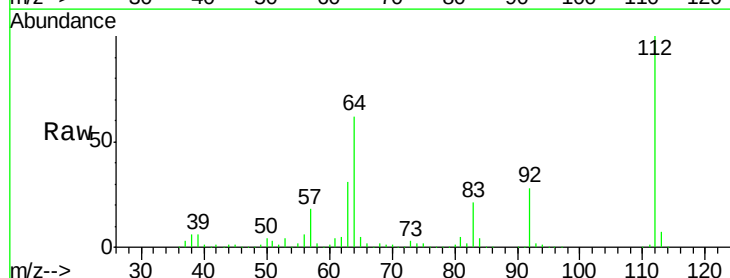
Tgt Ion:112 Resp: 712092

Ion Ratio Lower Upper

112 100

64 61.9 46.0 69.0

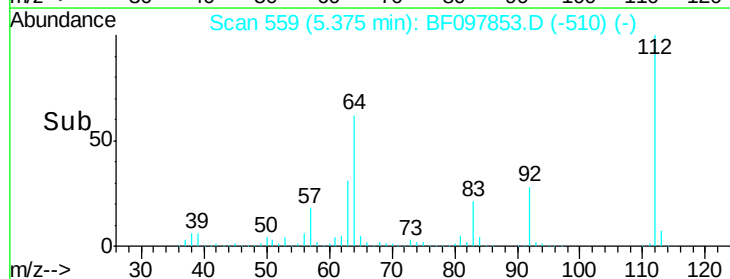
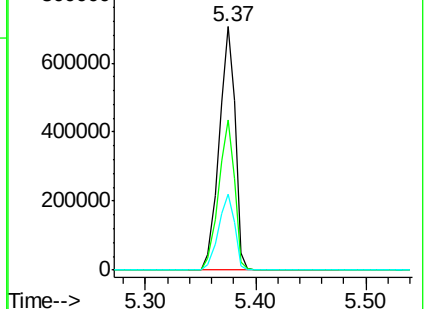
63 31.3 23.4 35.0

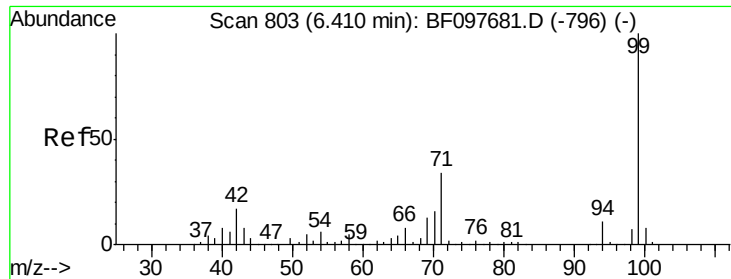


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 87.99 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

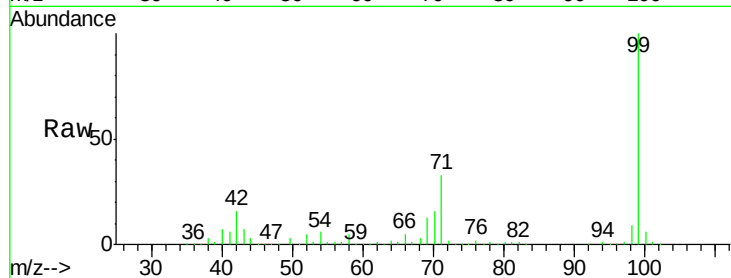
Tot Ion: 99 Resp: 956712

Ion	Ratio	Lower	Upper
99	100		
42	15.5	13.5	20.3
71	32.8	24.5	36.7

99 100

42 15.5 13.5 20.3

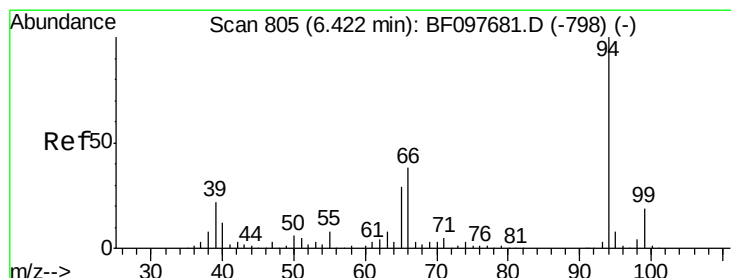
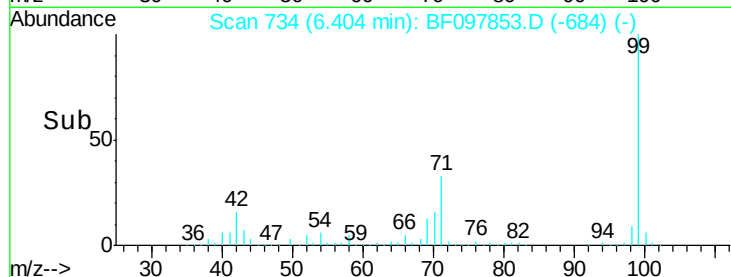
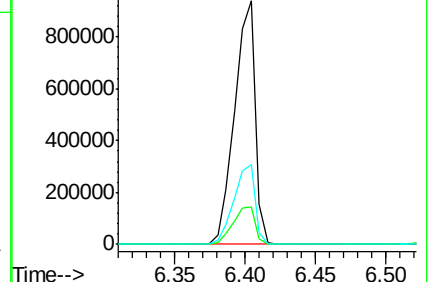
71 32.8 24.5 36.7



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



#10

Phenol

Concen: 2.71 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

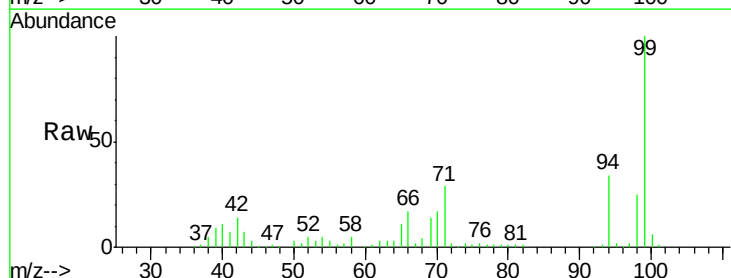
Tgt Ion: 94 Resp: 34413

Ion	Ratio	Lower	Upper
94	100		
65	32.5	9.9	49.9
66	48.8	23.1	63.1

94 100

65 32.5 9.9 49.9

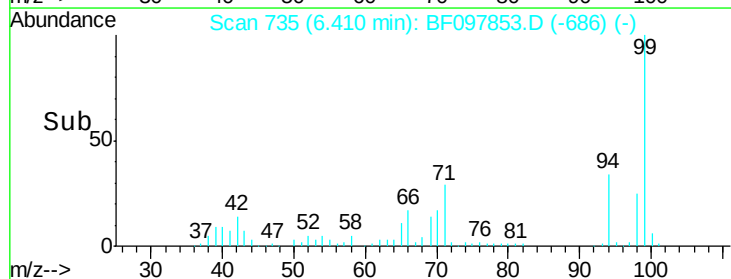
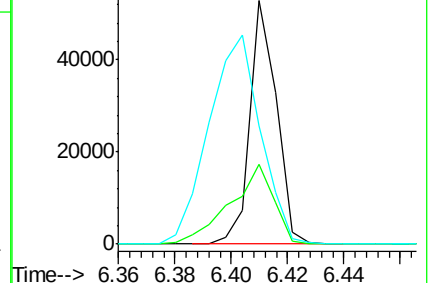
66 48.8 23.1 63.1

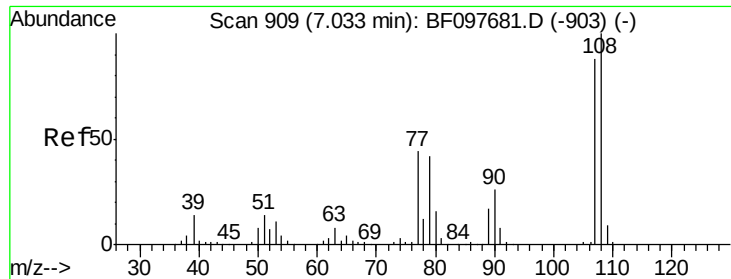


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

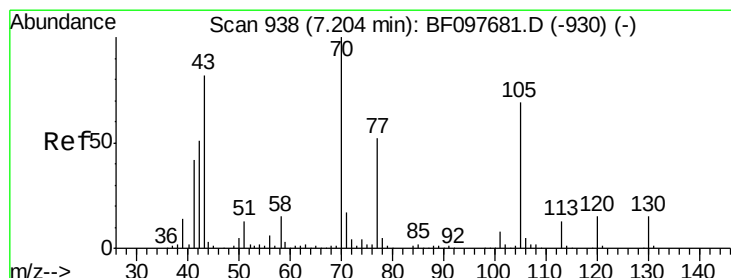
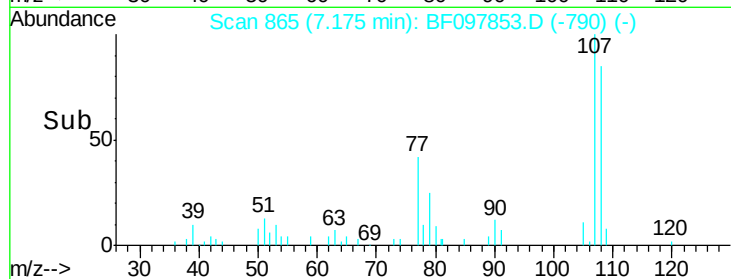
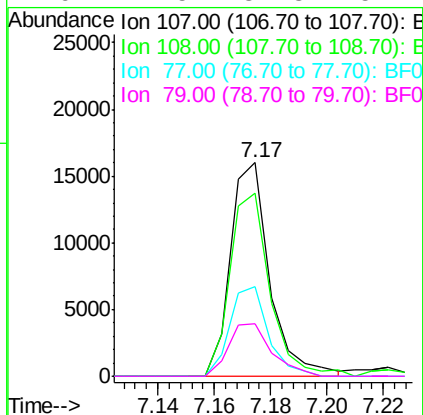
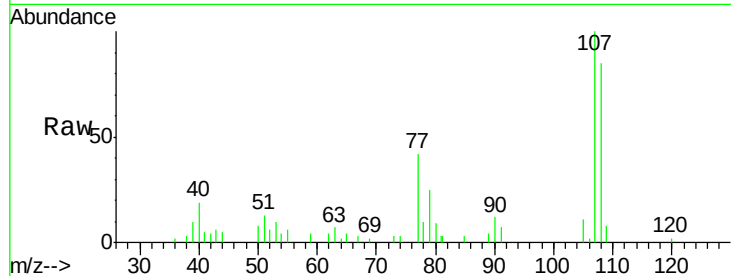




#17
2-Methylphenol
Concen: 2.07 ng
RT: 7.17 min Scan# 865
Delta R.T. 0.14 min
Lab File: BF097853.D
Acq: 19 Aug 2017 00:50

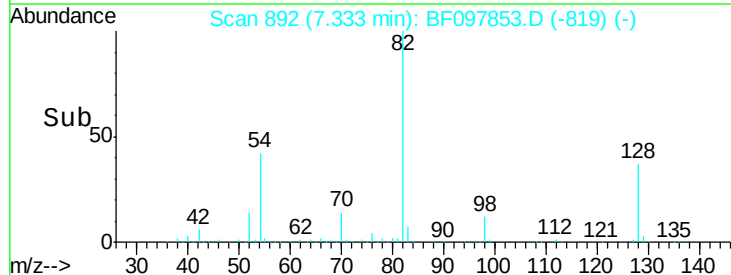
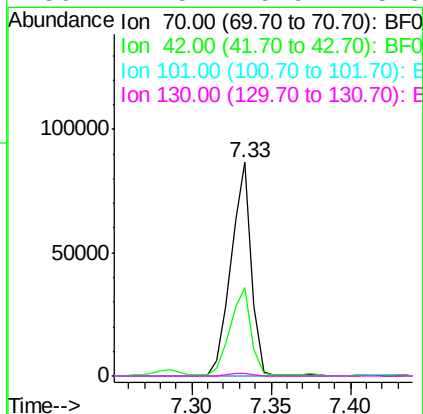
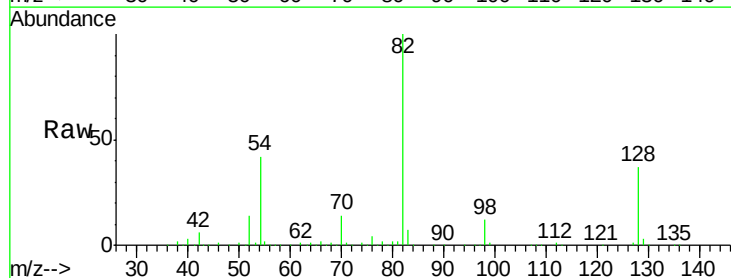
Instrument :
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B-13(0-10)COMP

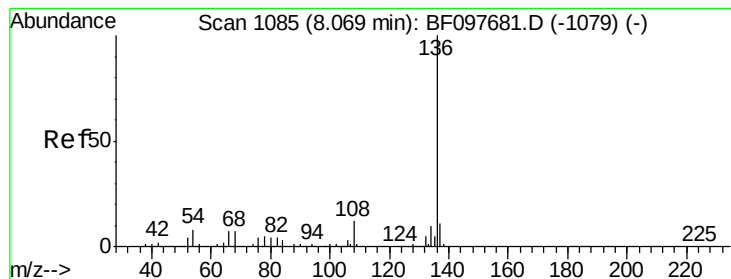
Tot Ion:	107	Resp:	15413
Ion	Ratio	Lower	Upper
107	100		
108	85.5	93.4	140.0#
77	41.8	35.8	53.6
79	24.5	34.8	52.2#



#19
n-Nitroso-di-n-propylamine
Concen: 10.35 ng
RT: 7.33 min Scan# 892
Delta R.T. 0.13 min
Lab File: BF097853.D
Acq: 19 Aug 2017 00:50

Tgt Ion:	70	Resp:	77033
Ion	Ratio	Lower	Upper
70	100		
42	41.3	47.2	70.8#
101	0.0	7.2	10.8#
130	1.5	15.9	23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

Tot Ion:136 Resp: 492098

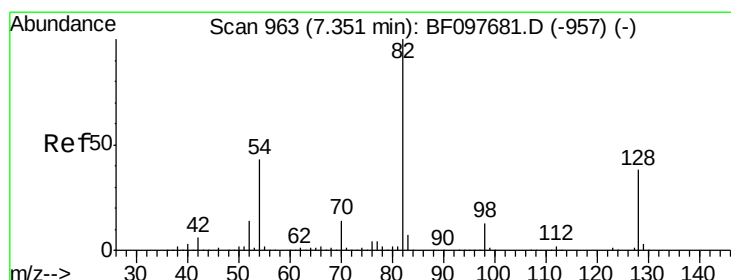
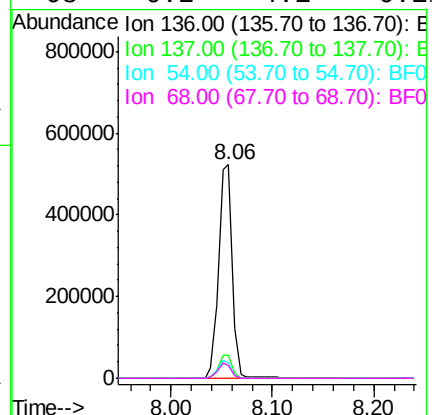
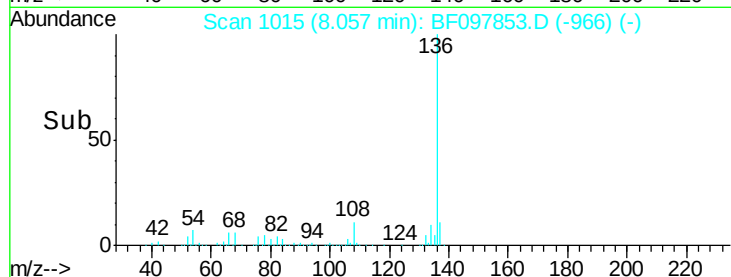
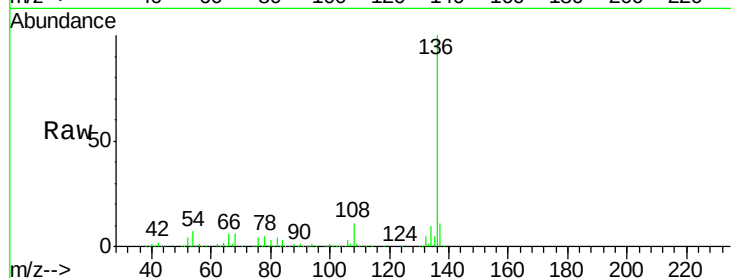
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 6.9 4.9 7.3

68 6.2 4.1 6.1#



#23

Nitrobenzene-d5

Concen: 62.55 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

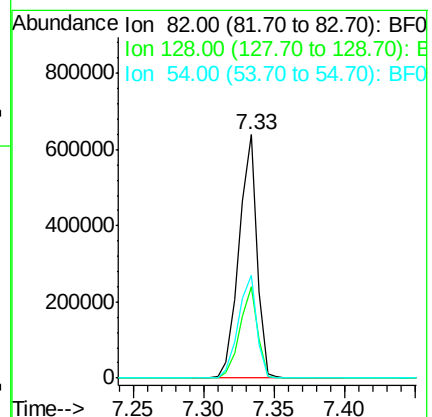
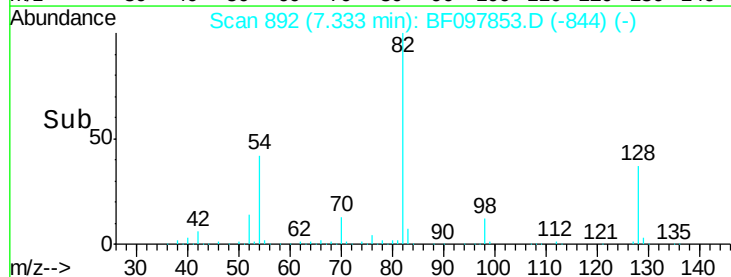
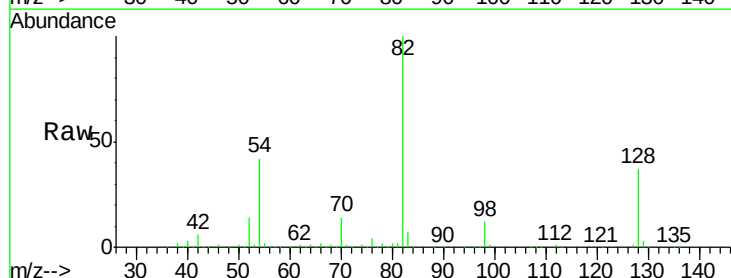
Tgt Ion: 82 Resp: 566576

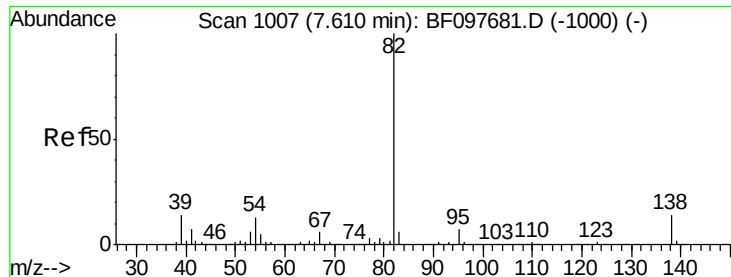
Ion Ratio Lower Upper

82 100

128 37.3 34.0 51.0

54 42.4 42.2 63.2





#25

Isophorone

Concen: 29.88 ng

RT: 7.33 min Scan# 892

Delta R.T. -0.28 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

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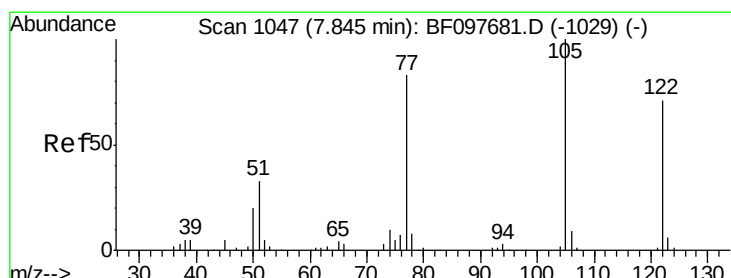
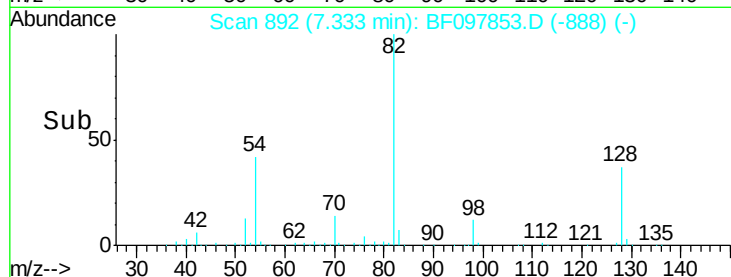
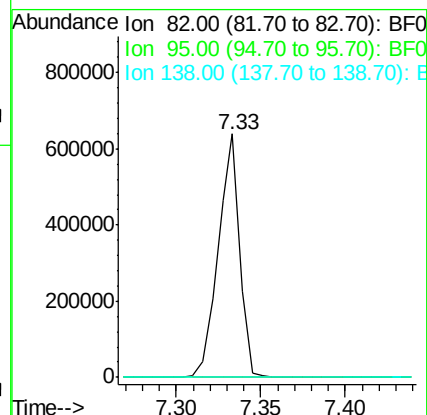
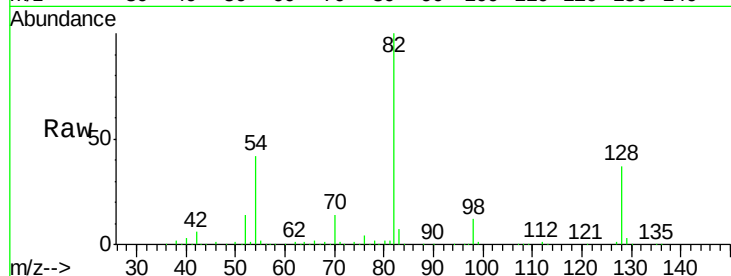
Tot Ion: 82 Resp: 562792

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#32

Benzoic acid

Concen: 6.75 ng

RT: 7.82 min Scan# 975

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

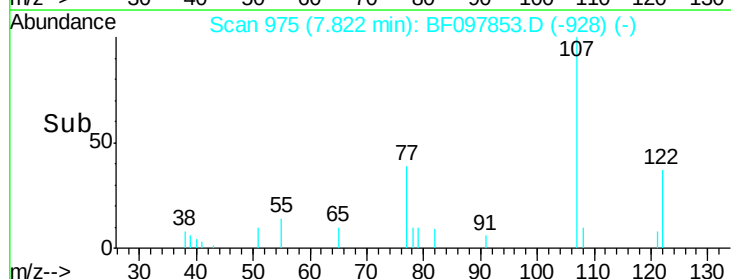
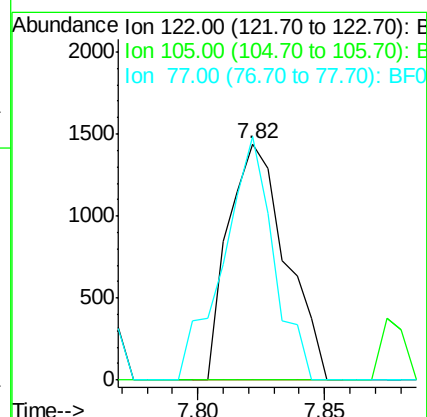
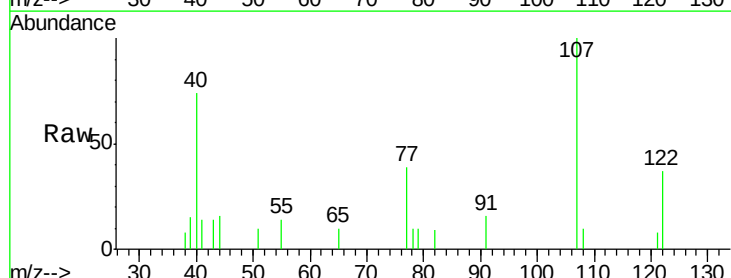
Tgt Ion: 122 Resp: 2280

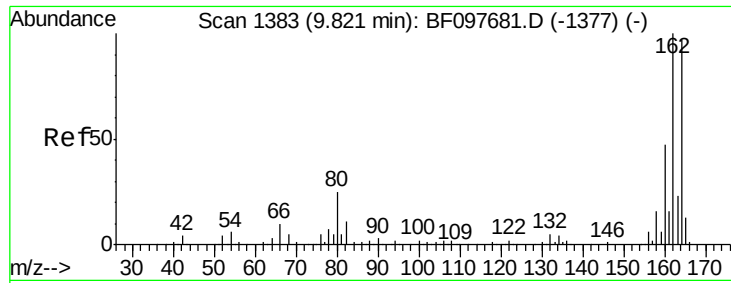
Ion Ratio Lower Upper

122 100

105 0.0 103.3 143.3#

77 103.0 73.7 113.7

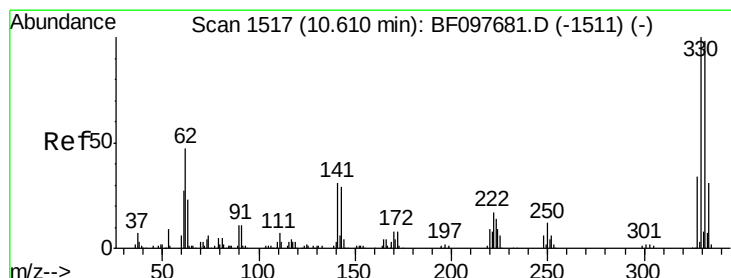
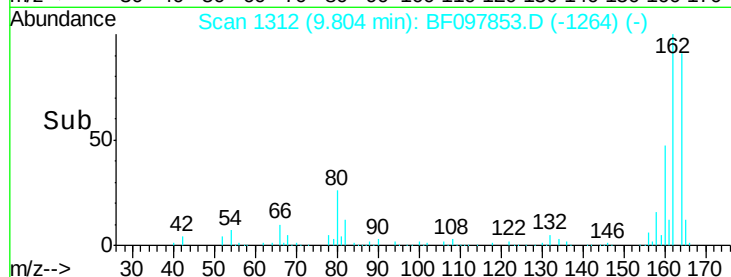
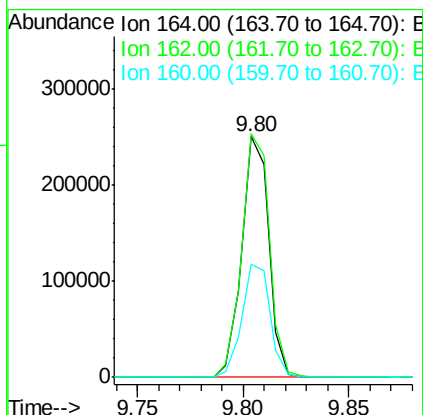
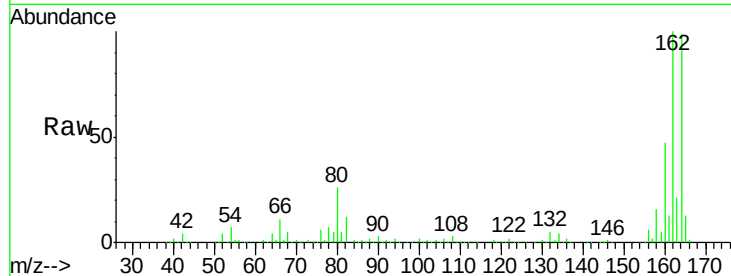




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.80 min Scan# 1312
 Delta R.T. -0.02 min
 Lab File: BF097853.D
 Acq: 19 Aug 2017 00:50

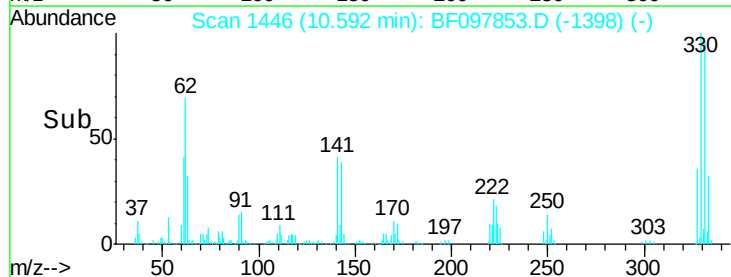
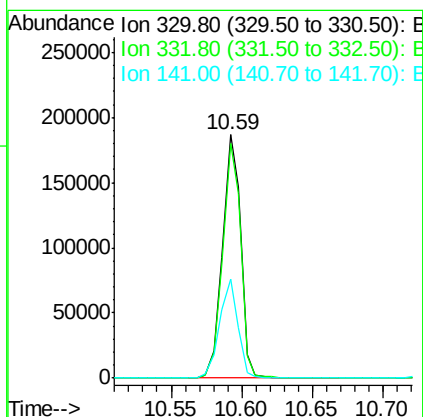
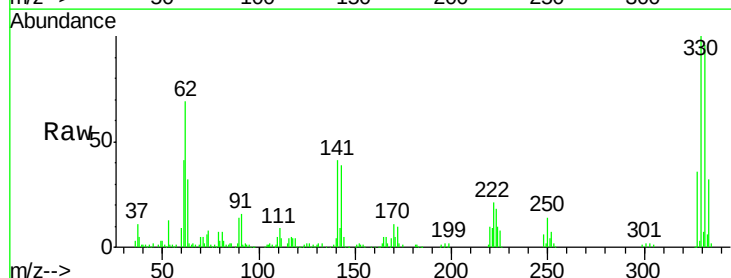
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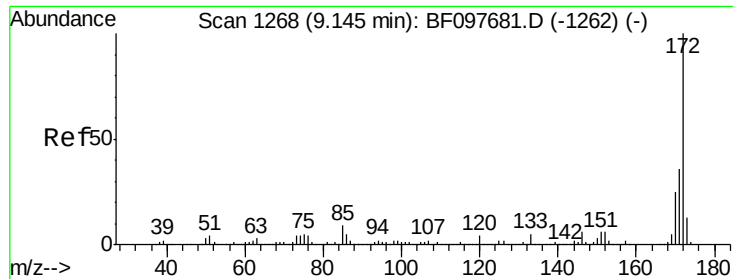
Tot Ion:164 Resp: 221591
 Ion Ratio Lower Upper
 164 100
 162 101.1 82.6 123.8
 160 47.1 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 87.37 ng
 RT: 10.59 min Scan# 1446
 Delta R.T. -0.02 min
 Lab File: BF097853.D
 Acq: 19 Aug 2017 00:50

Tgt Ion:330 Resp: 167981
 Ion Ratio Lower Upper
 330 100
 332 95.6 76.6 115.0
 141 41.7 31.4 47.2

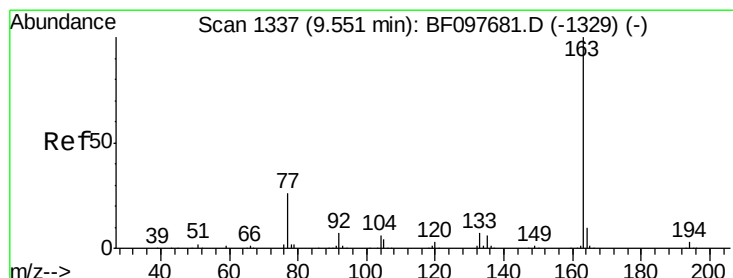
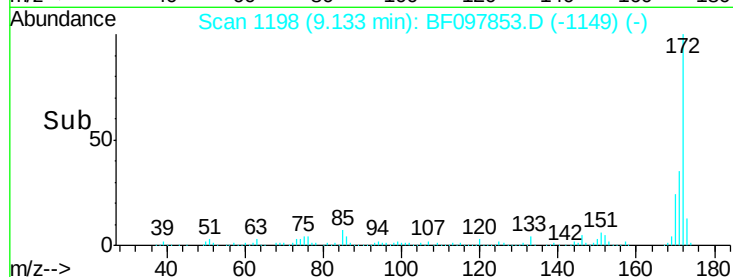
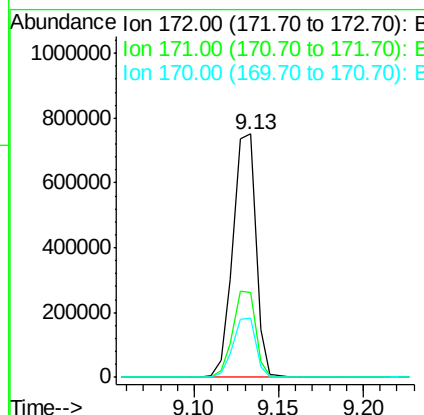
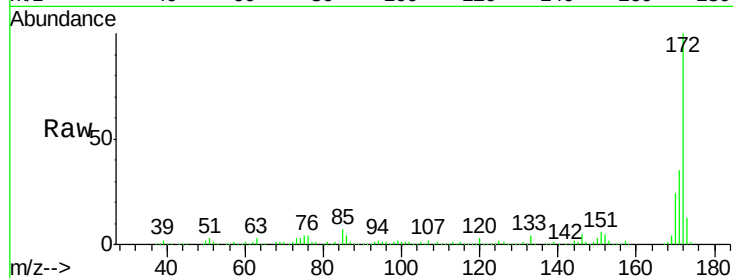




#44
 2-Fluorobiphenyl
 Concen: 47.24 ng
 RT: 9.13 min Scan# 1198
 Delta R.T. -0.01 min
 Lab File: BF097853.D
 Acq: 19 Aug 2017 00:50

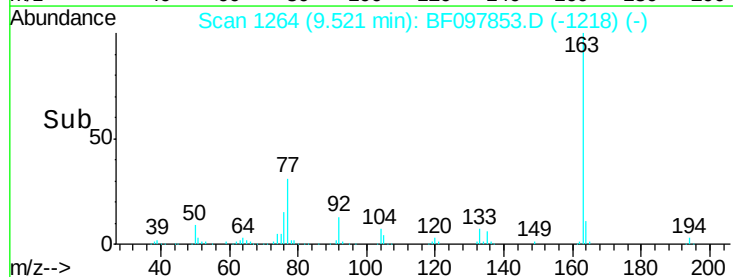
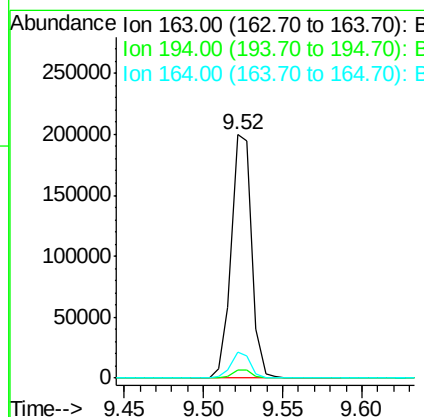
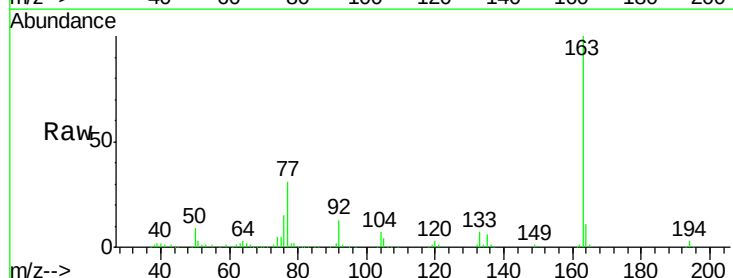
Instrument :
 BNA_F
 ClientSampleId :
 B-13(0-10)COMP

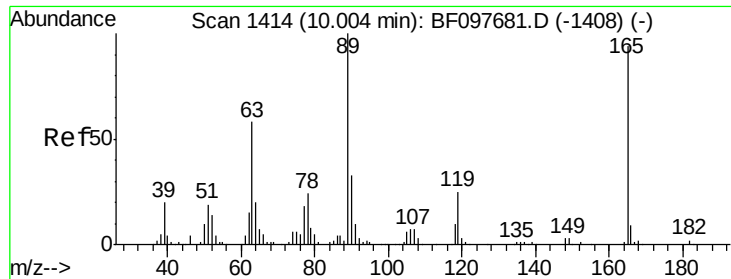
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.1	29.6	44.4
170	24.2	19.8	29.8



#49
 Dimethylphthalate
 Concen: 11.07 ng
 RT: 9.52 min Scan# 1264
 Delta R.T. -0.03 min
 Lab File: BF097853.D
 Acq: 19 Aug 2017 00:50

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.4	2.6	4.0
164	10.5	8.4	12.6





#56

2,4-Dinitrotoluene

Concen: 7.00 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.20 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

Tot Ion:165 Resp: 28400

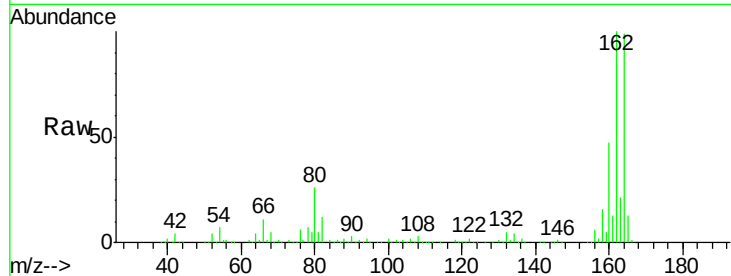
Ion Ratio Lower Upper

165 100

63 1.5 25.4 38.0#

89 1.9 46.4 69.6#

182 0.0 1.8 2.6#

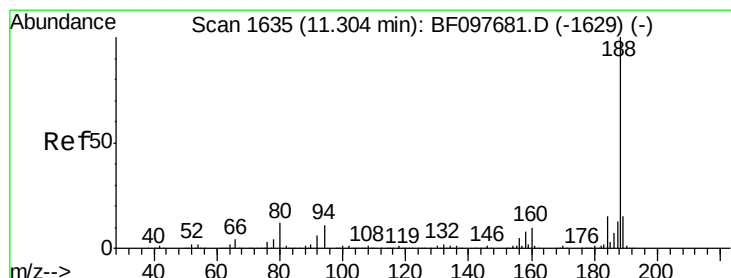
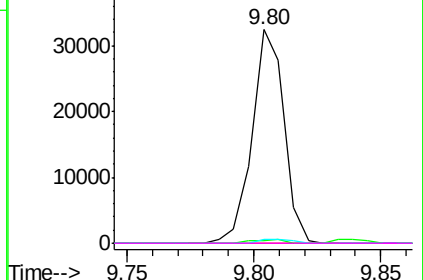
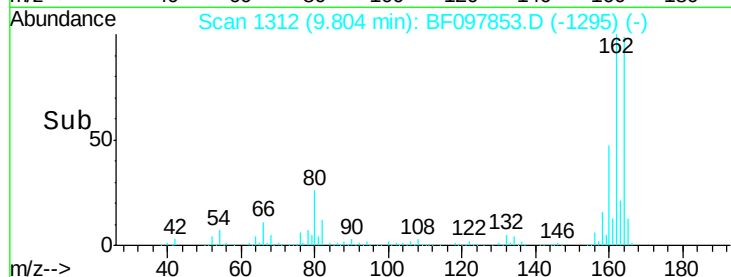


Abundance Ion 165.00 (164.70 to 165.70): E

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: 11.29 min Scan# 1565

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

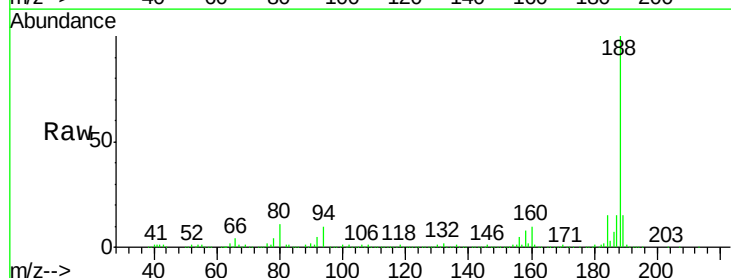
Tgt Ion:188 Resp: 426385

Ion Ratio Lower Upper

188 100

94 10.4 9.4 14.2

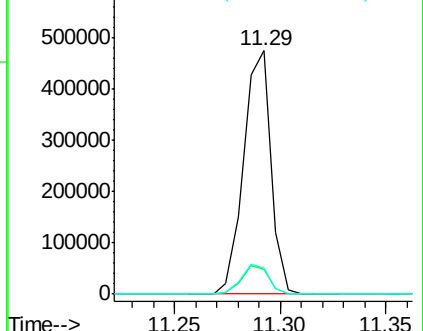
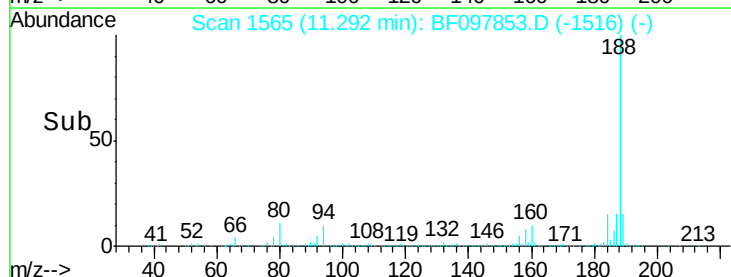
80 10.7 10.2 15.2

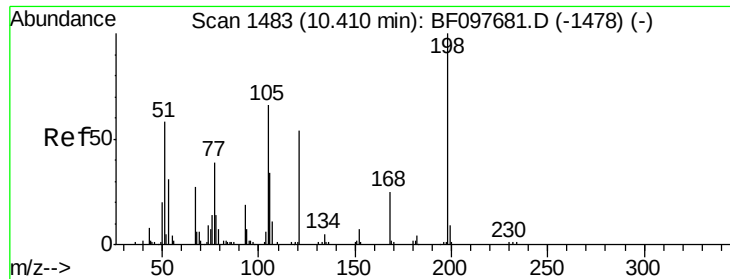


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

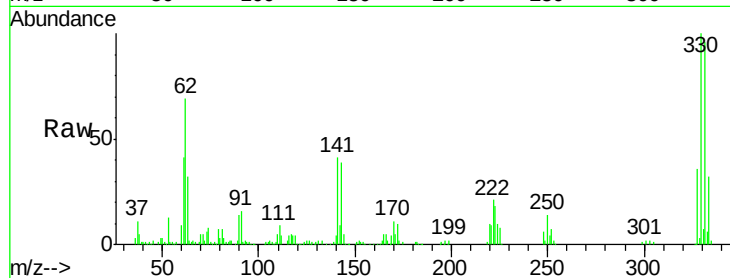




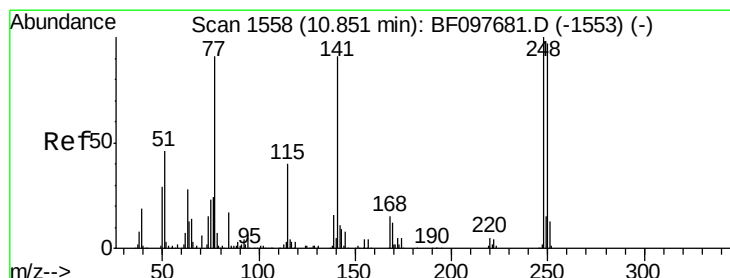
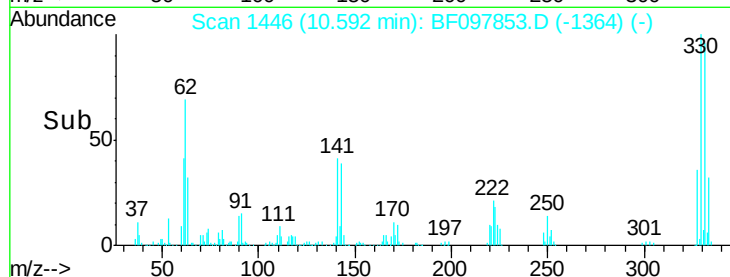
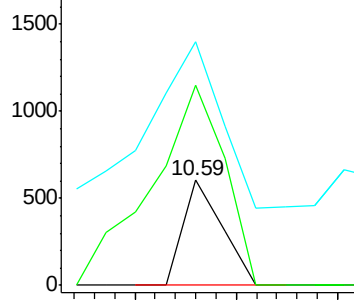
#64
4,6-Dinitro-2-methylphenol
Concen: 8.45 ng
RT: 10.59 min Scan# 1446
Delta R.T. 0.18 min
Lab File: BF097853.D
Acq: 19 Aug 2017 00:50

Instrument :
BNA_F
ClientSampleId :
B-13(0-10)COMP

Tot Ion	Ratio	Lower	Upper
198	100		
51	190.9	53.2	93.2#
105	232.0	45.8	85.8#

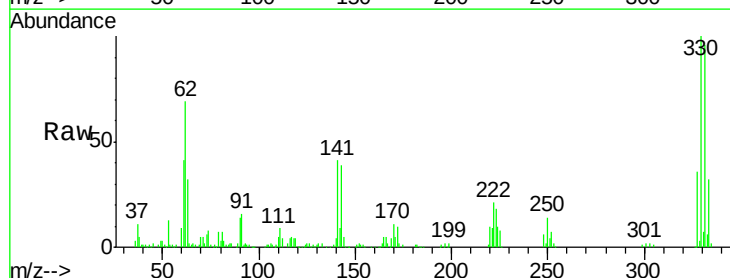


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E

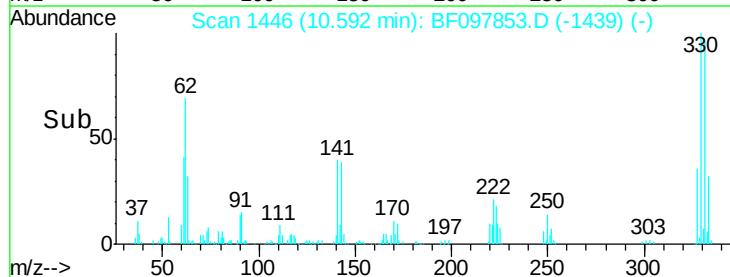
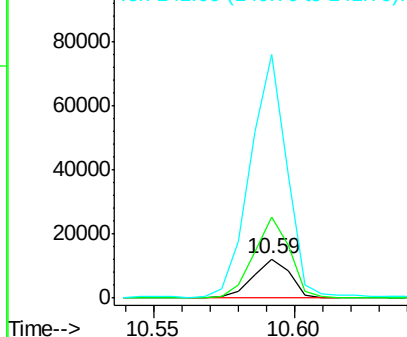


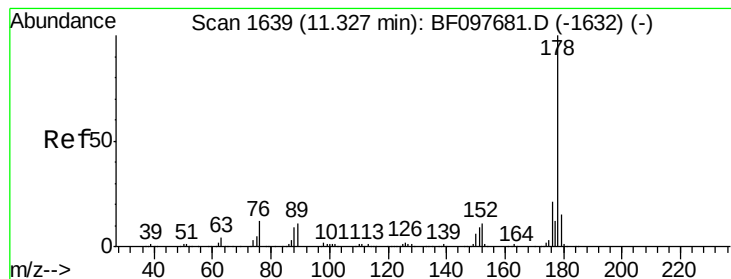
#66
4-Bromophenyl-phenylether
Concen: 2.49 ng
RT: 10.59 min Scan# 1446
Delta R.T. -0.26 min
Lab File: BF097853.D
Acq: 19 Aug 2017 00:50

Tgt Ion	Ratio	Lower	Upper
248	100		
250	208.5	76.8	115.2#
141	625.5	68.6	103.0#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 2.49 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

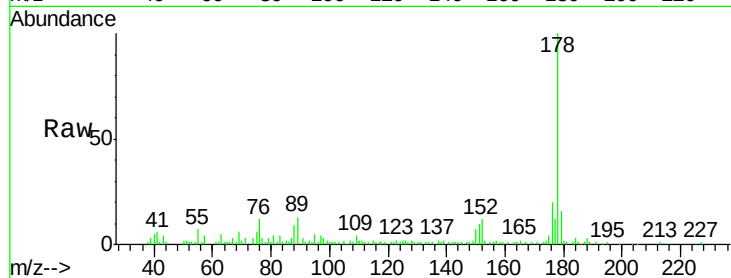
Tot Ion:178 Resp: 56591

Ion Ratio Lower Upper

178 100

176 19.8 16.2 24.4

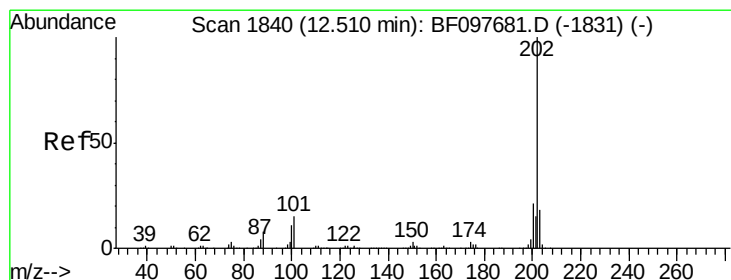
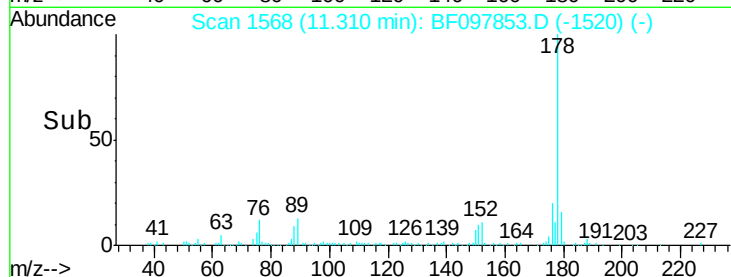
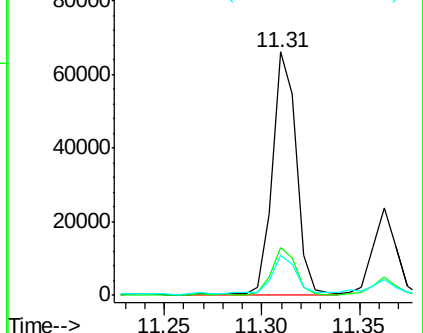
179 16.3 12.6 19.0



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: 7.72 ng

RT: 12.50 min Scan# 1770

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

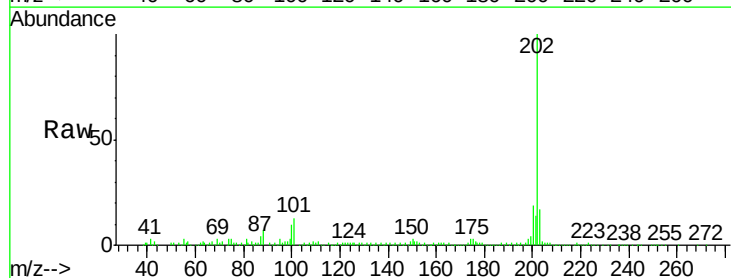
Tgt Ion:202 Resp: 183041

Ion Ratio Lower Upper

202 100

101 12.9 0.0 33.2

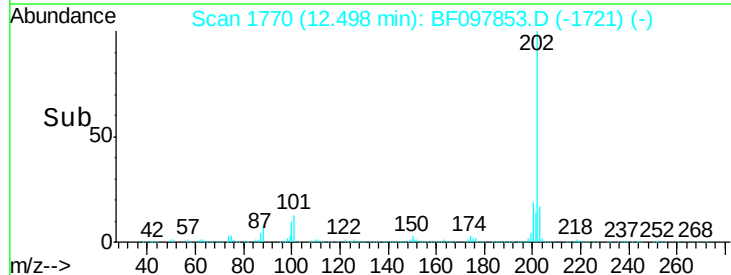
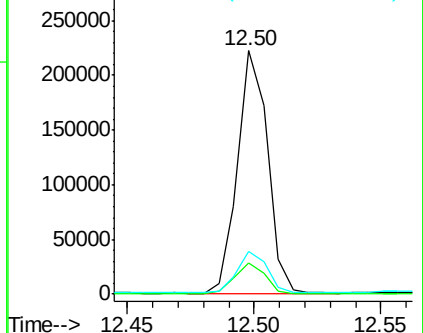
203 17.4 0.0 38.1

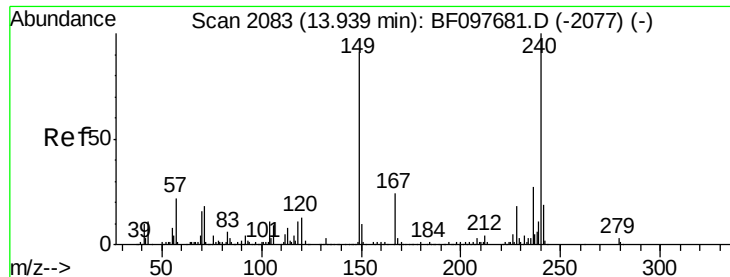


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.92 min Scan# 2012

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

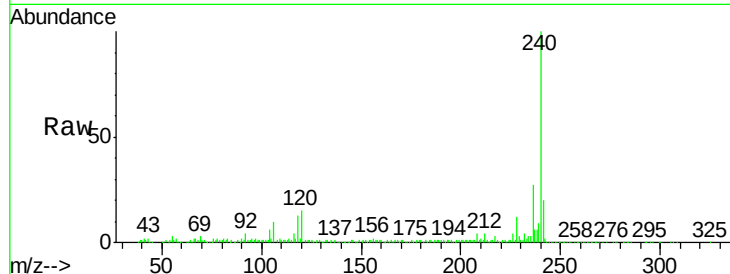
Tot Ion:240 Resp: 313803

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

236 27.0 20.5 30.7



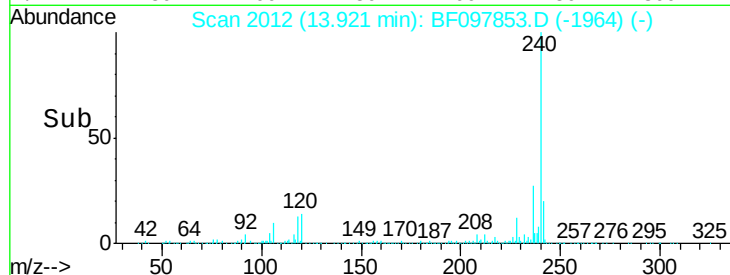
Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

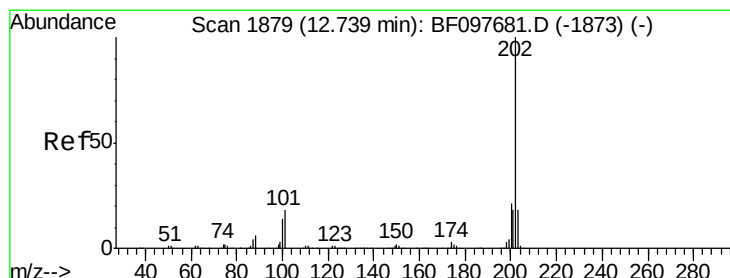
Ion 236.00 (235.70 to 236.70): E

Time-->

13.92



Time-->



#77

Pyrene

Concen: 7.39 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

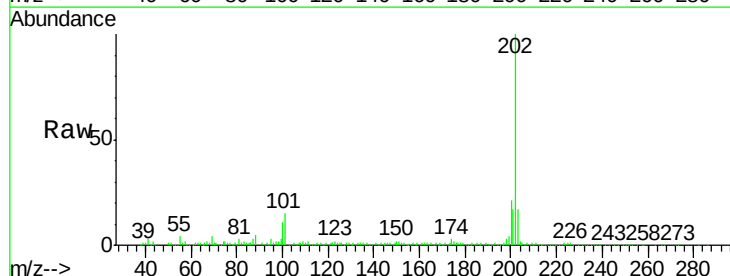
Tgt Ion:202 Resp: 189730

Ion Ratio Lower Upper

202 100

200 20.6 17.6 26.4

203 17.4 14.4 21.6



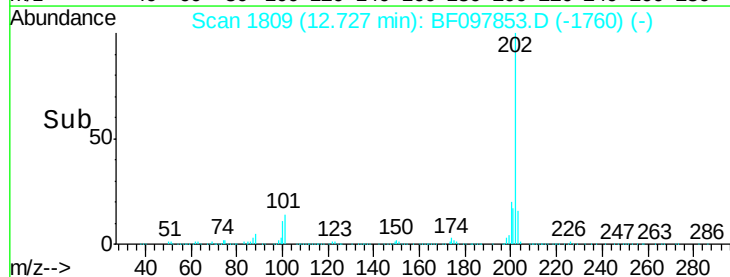
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

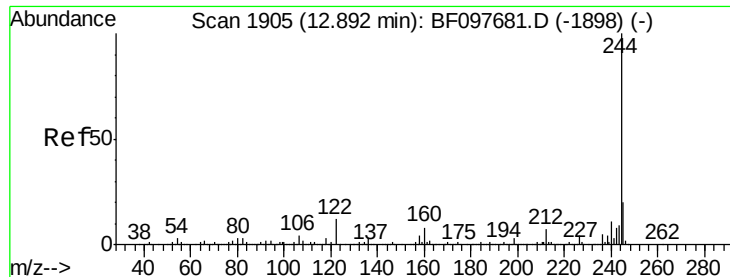
Ion 203.00 (202.70 to 203.70): E

Time-->

12.73



Time-->



#78

Terphenyl-d14

Concen: 37.53 ng

RT: 12.87 min Scan# 1834

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

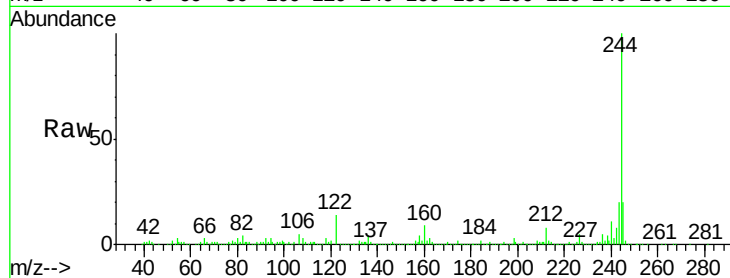
Tot Ion:244 Resp: 564698

Ion Ratio Lower Upper

244 100

212 7.9 6.0 9.0

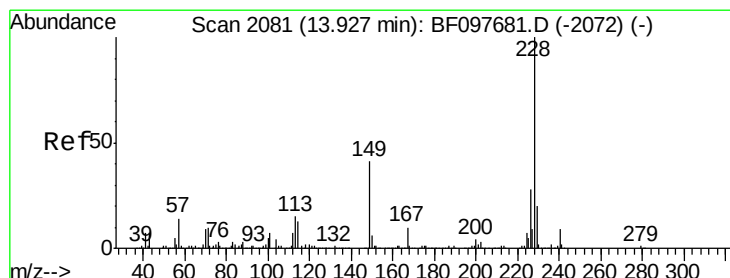
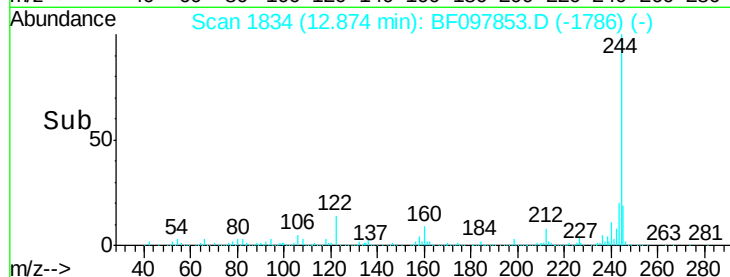
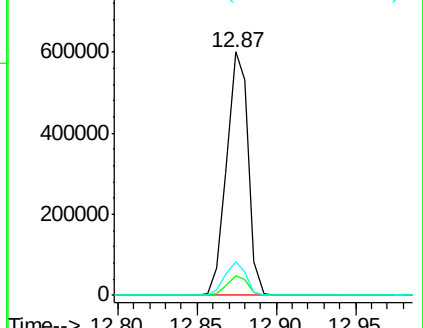
122 14.0 10.3 15.5



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: 4.48 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

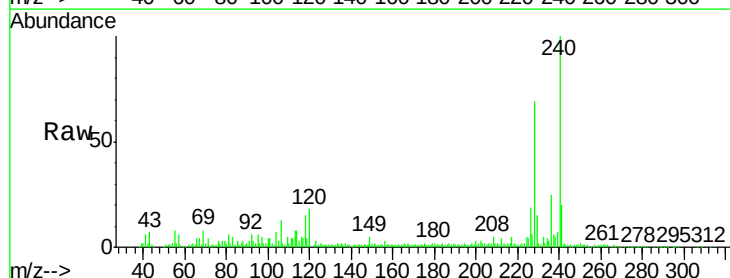
Tgt Ion:228 Resp: 84170

Ion Ratio Lower Upper

228 100

226 27.8 22.6 33.8

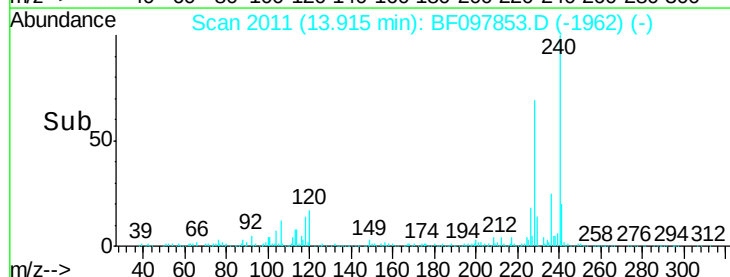
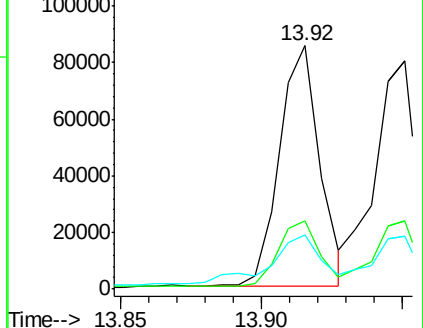
229 22.4 16.3 24.5

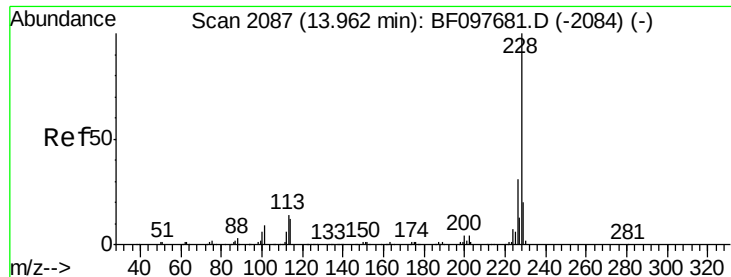


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.44 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

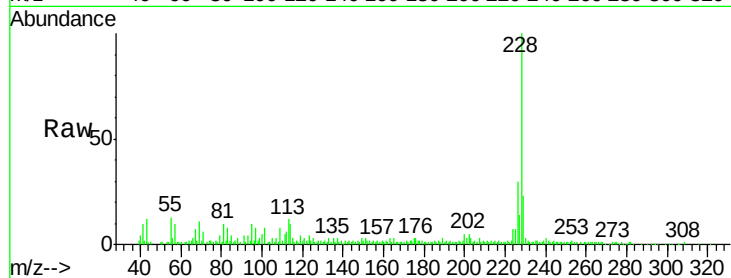
Tot Ion:228 Resp: 83070

Ion Ratio Lower Upper

228 100

226 30.1 24.9 37.3

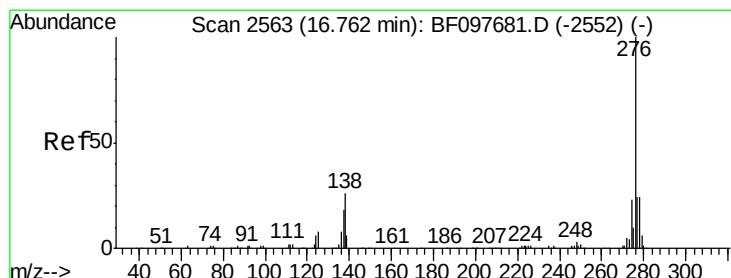
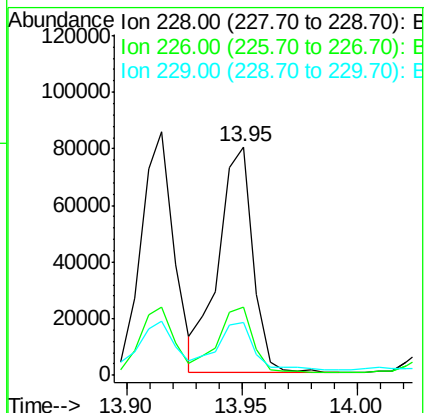
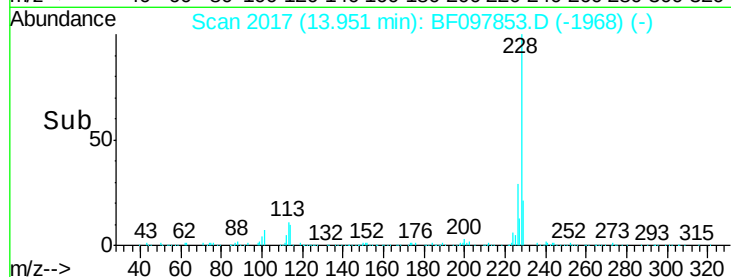
229 23.2 15.8 23.6



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: 16.74 min Scan# 2492

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

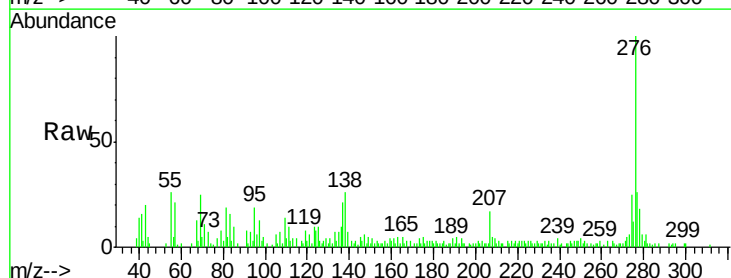
Tgt Ion:276 Resp: 42343

Ion Ratio Lower Upper

276 100

138 26.3 27.8 41.6#

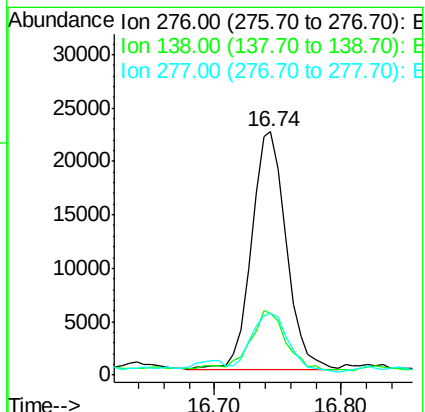
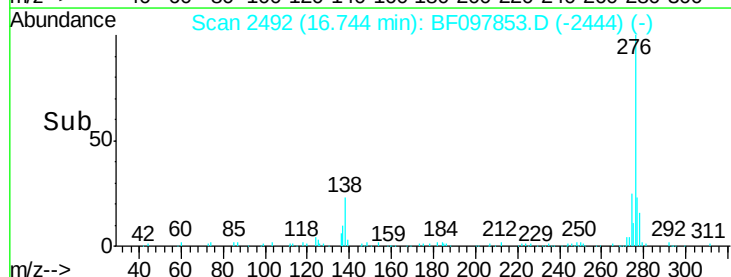
277 26.6 20.2 30.4

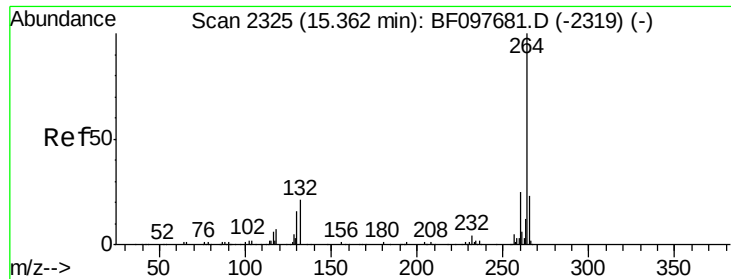


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

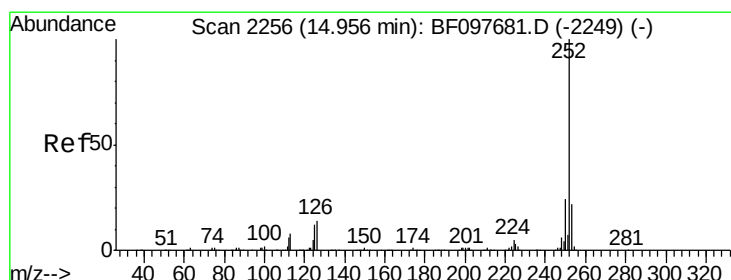
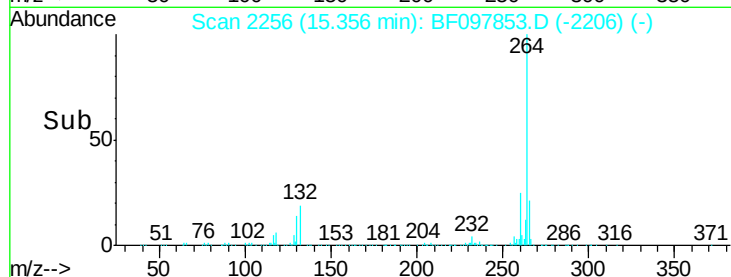
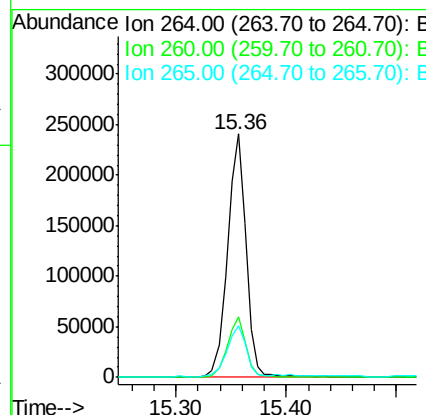
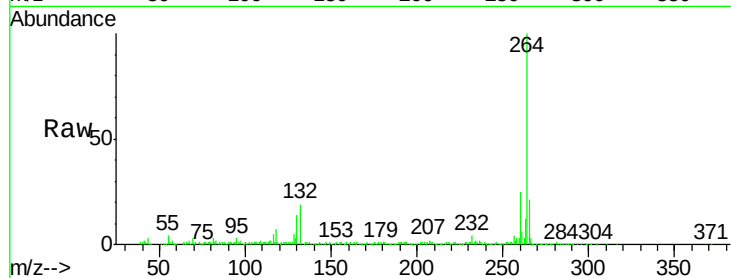




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.36 min Scan# 2256
Delta R.T. -0.01 min
Lab File: BF097853.D
Acq: 19 Aug 2017 00:50

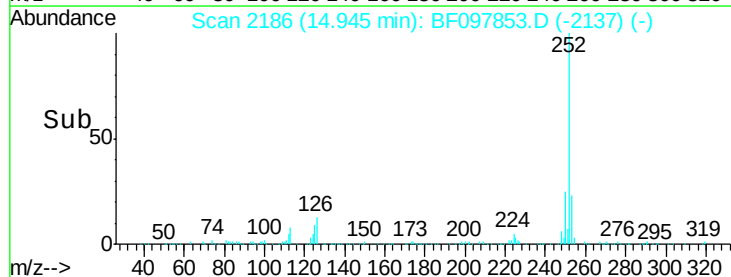
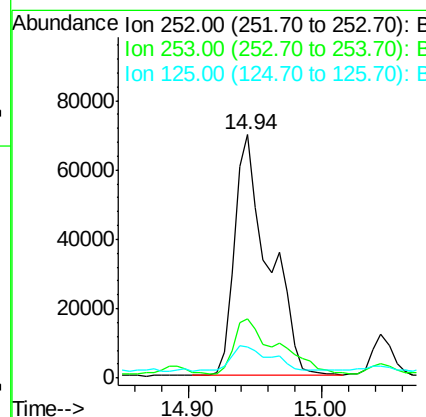
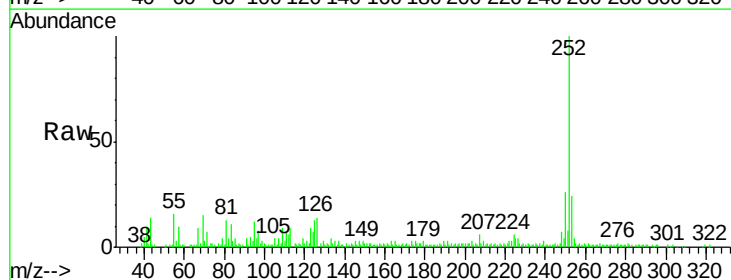
Instrument :
BNA_F
ClientSampleId :
B-13(0-10)COMP

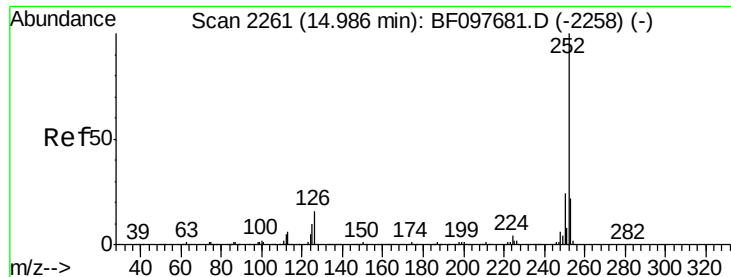
Tot Ion:264 Resp: 280654
Ion Ratio Lower Upper
264 100
260 25.0 19.5 29.3
265 21.3 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 7.01 ng
RT: 14.94 min Scan# 2186
Delta R.T. -0.01 min
Lab File: BF097853.D
Acq: 19 Aug 2017 00:50

Tgt Ion:252 Resp: 124086
Ion Ratio Lower Upper
252 100
253 24.4 18.1 27.1
125 12.6 9.8 14.8





#88

Benzo(k)fluoranthene

Concen: 7.47 ng

RT: 14.94 min Scan# 2186

Delta R.T. -0.04 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

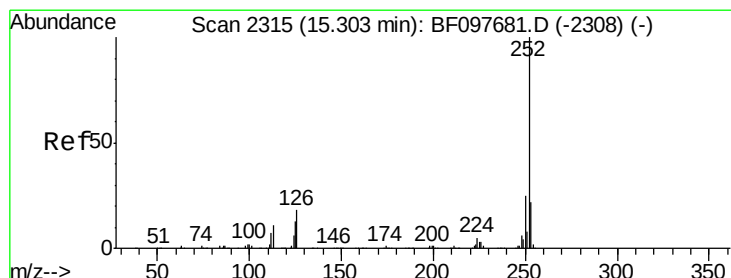
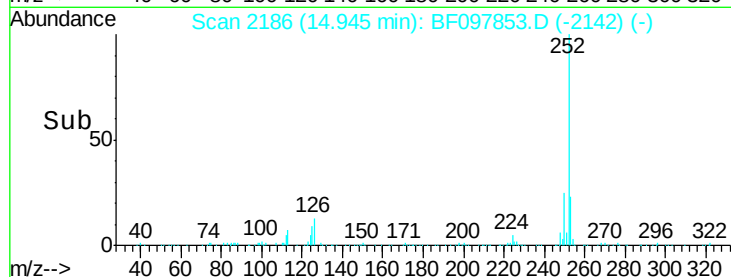
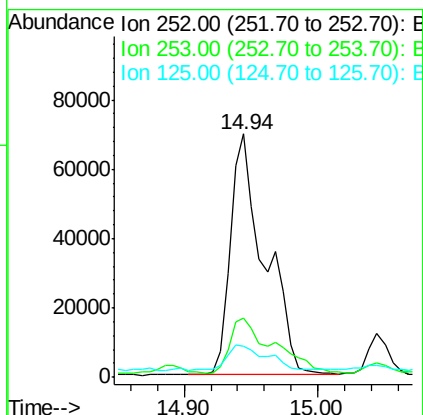
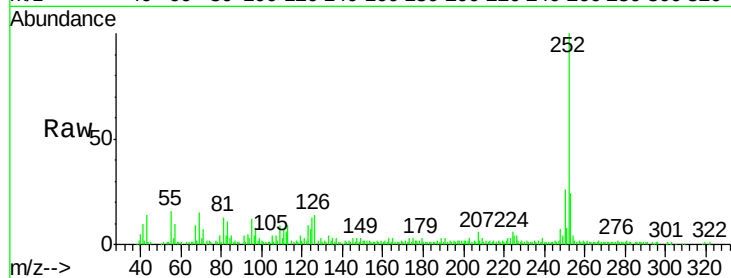
Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

Tot Ion:252	Resp:	124086
Ion Ratio	Lower	Upper
252	100	
253	24.4	18.4 27.6
125	12.6	13.1 19.7#



#89

Benzo(a)pyrene

Concen: 4.36 ng

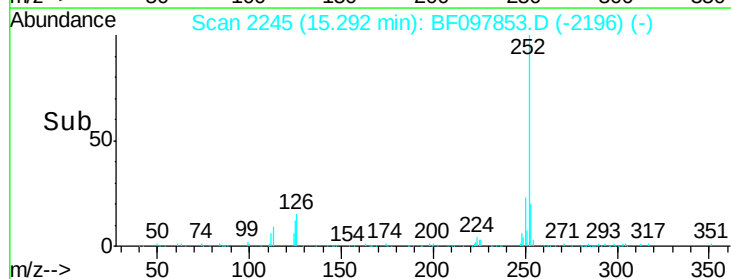
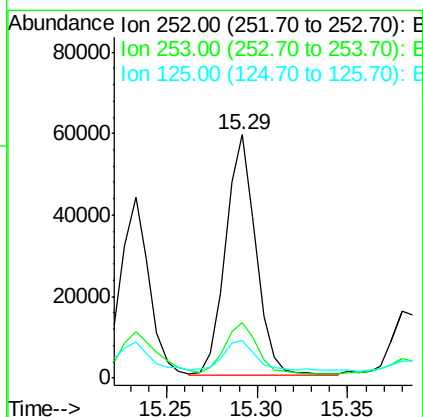
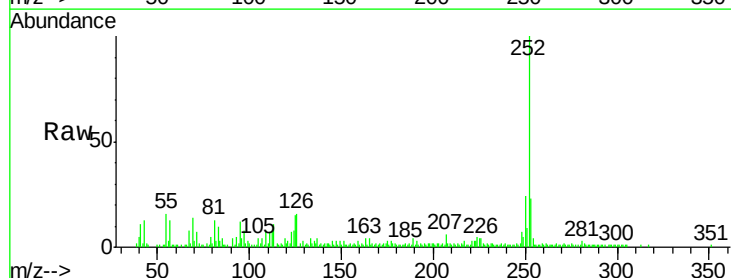
RT: 15.29 min Scan# 2245

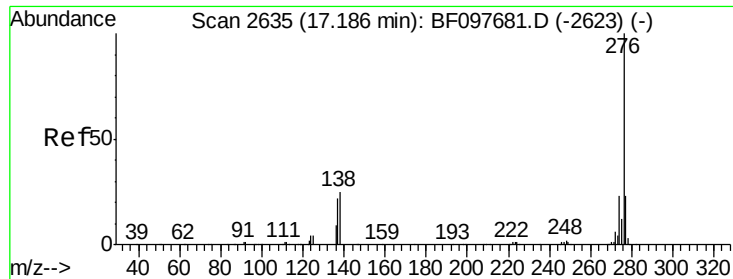
Delta R.T. -0.01 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Tgt Ion:252	Resp:	68243
Ion Ratio	Lower	Upper
252	100	
253	23.0	17.5 26.3
125	15.3	11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 3.11 ng

RT: 17.16 min Scan# 2563

Delta R.T. -0.02 min

Lab File: BF097853.D

Acq: 19 Aug 2017 00:50

Instrument :

BNA_F

ClientSampleId :

B-13(0-10)COMP

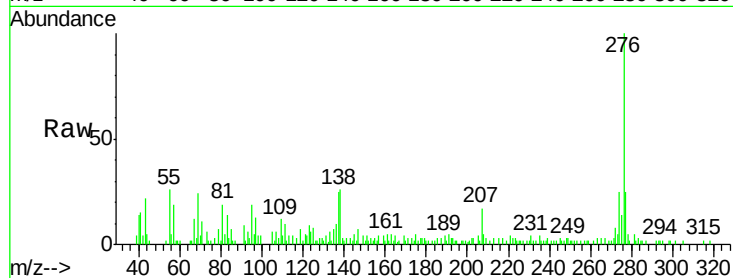
Tot Ion:276 Resp: 41353

Ion Ratio Lower Upper

276 100

277 24.7 18.6 28.0

138 25.6 25.4 38.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

