

Data Path : Z:\HPCHEM1\BNA F\DATA\BF071117\
 Data File : BF096653.D
 Acq On : 11 Jul 2017 19:22
 Operator : SJ/JU
 Sample : I4069-06
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CIY-SB-020304-0-6

Quant Time: Jul 12 01:12:55 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 07 13:02:33 2017
 Response via : Initial Calibration

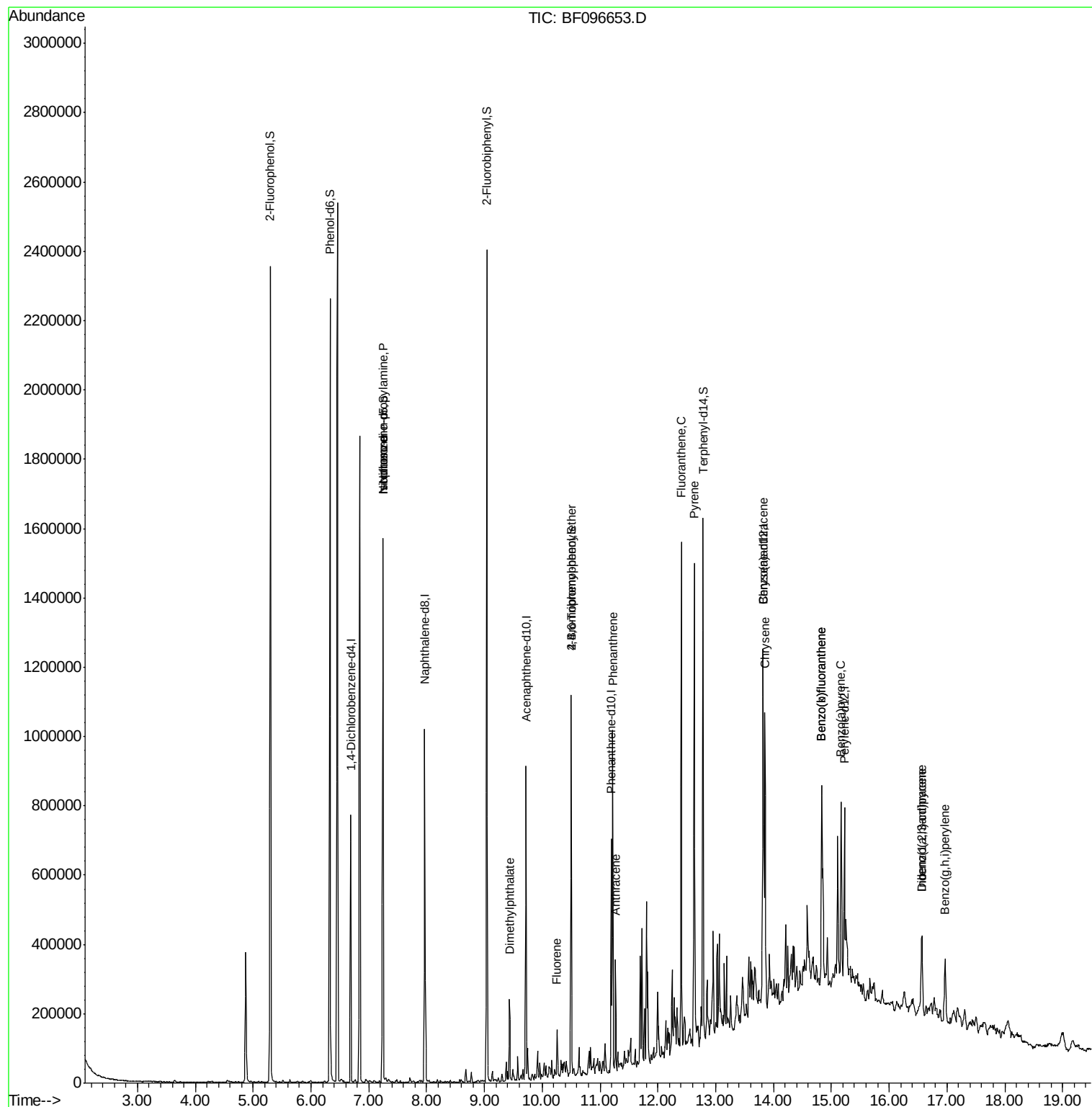
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	113556	20.00	ng	-0.01
21) Naphthalene-d8	7.97	136	477999	20.00	ng	-0.02
38) Acenaphthene-d10	9.72	164	169435	20.00	ng	-0.02
63) Phenanthrene-d10	11.19	188	237511	20.00	ng	-0.02
75) Chrysene-d12	13.83	240	207850	20.00	ng	-0.02
86) Perylene-d12	15.23	264	215000	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.30	112	650352	84.53	ng	-0.01
7) Phenol-d6	6.33	99	774557	81.89	ng	-0.02
23) Nitrobenzene-d5	7.25	82	481351	60.51	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	117753	88.97	ng	-0.02
44) 2-Fluorobiphenyl	9.05	172	759801	76.67	ng	-0.02
78) Terphenyl-d14	12.78	244	427633	43.96	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.25	70	63999	11.358	ng	# 88
25) Isophorone	7.25	82	476194	30.875	ng	# 67
49) Dimethylphthalate	9.43	163	87095	6.886	ng	98
57) Fluorene	10.26	166	36455	3.700	ng	# 99
66) 4-Bromophenyl-phenylether	10.50	248	7815	3.380	ng	# 1
70) Phenanthrene	11.22	178	393676	30.662	ng	98
71) Anthracene	11.27	178	111945	8.556	ng	97
74) Fluoranthene	12.40	202	546547	43.418	ng	98
77) Pyrene	12.63	202	564656	33.845	ng	99
80) Benzo(a)anthracene	13.82	228	306938	25.501	ng	98
82) Chrysene	13.85	228	296068	23.489	ng	96
85) Indeno(1,2,3-cd)pyrene	16.57	276	127192	12.784	ng	95
87) Benzo(b)fluoranthene	14.83	252	407338	30.236	ng	# 96
88) Benzo(k)fluoranthene	14.83	252	407338	33.802	ng	99
89) Benzo(a)pyrene	15.17	252	249576	20.750	ng	98
90) Dibenzo(a,h)anthracene	16.57	278	35234	3.724	ng	# 74
91) Benzo(a,h,i)perylene	16.97	276	124188	12.666	ng	100

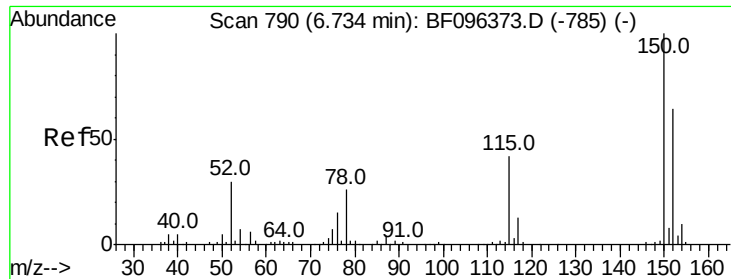
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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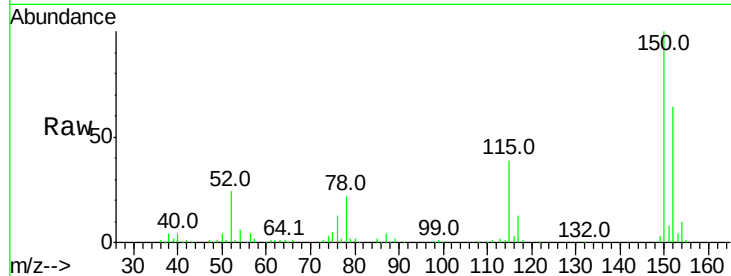


#1

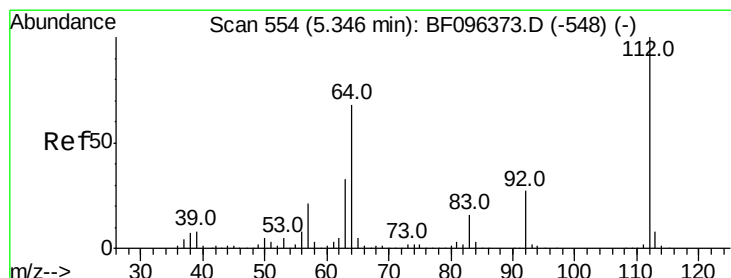
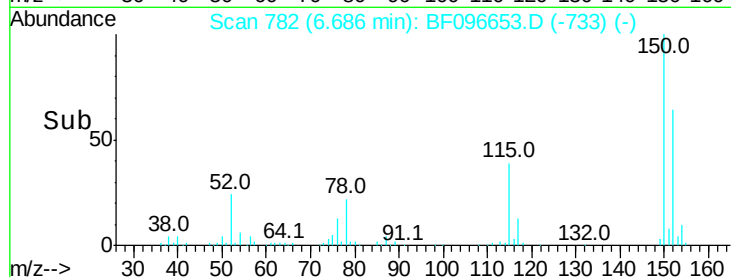
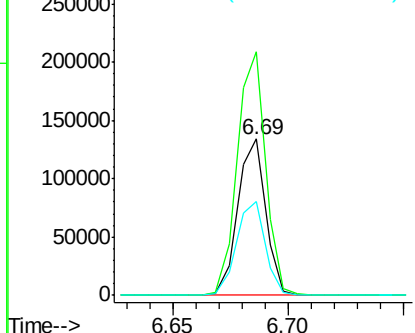
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 782
 Delta R.T. -0.01 min
 Lab File: BF096653.D
 Acq: 11 Jul 2017 19:22

Instrument :
 BNA_F
 ClientSampleId :
 CIY-SB-020304-0-6

Tot Ion:152 Resp: 113556
 Ion Ratio Lower Upper
 152 100
 150 156.1 126.2 189.2
 115 60.6 52.2 78.2



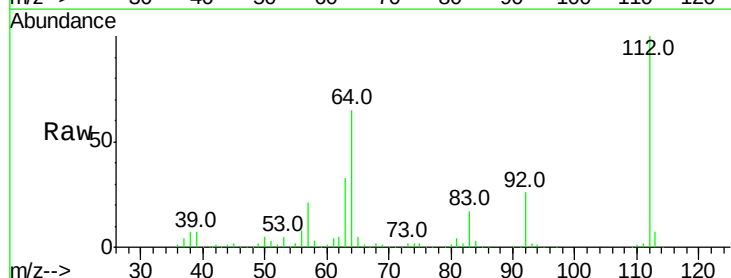
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



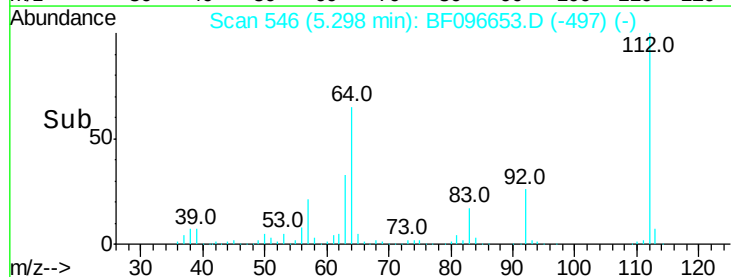
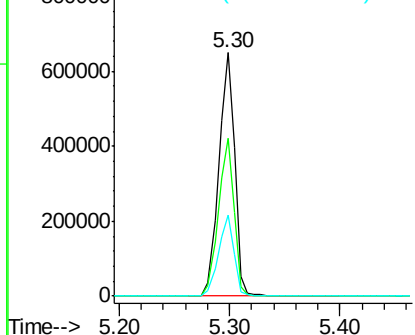
#5

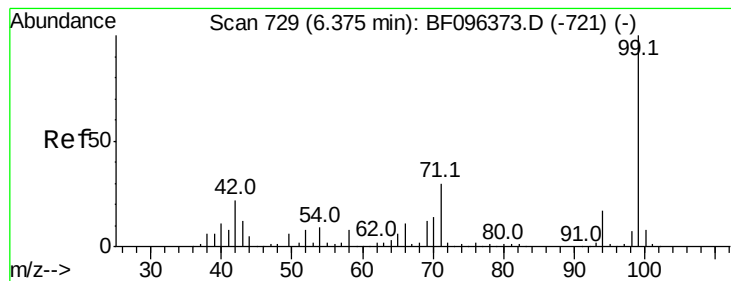
2-Fluorophenol
 Concen: 84.531 ng
 RT: 5.30 min Scan# 546
 Delta R.T. -0.01 min
 Lab File: BF096653.D
 Acq: 11 Jul 2017 19:22

Tgt Ion:112 Resp: 650352
 Ion Ratio Lower Upper
 112 100
 64 64.8 46.0 69.0
 63 33.3 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: 81.892 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

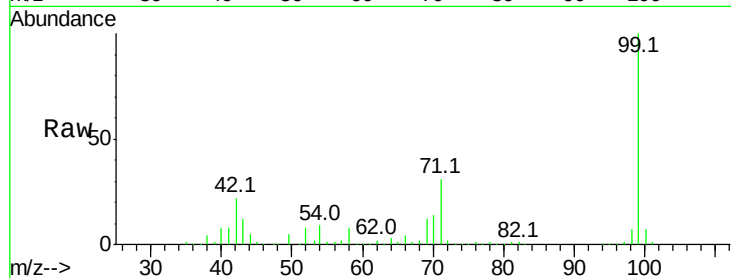
Tot Ion: 99 Resp: 774557

Ion Ratio Lower Upper

99 100

42 22.5 13.5 20.3#

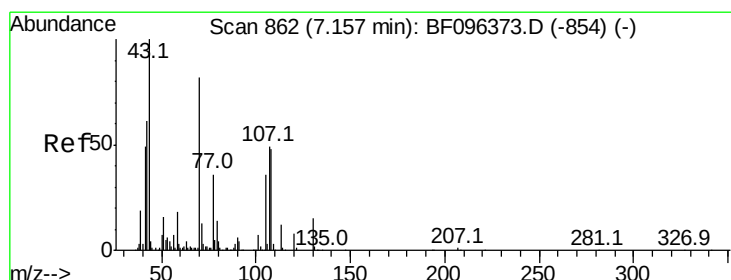
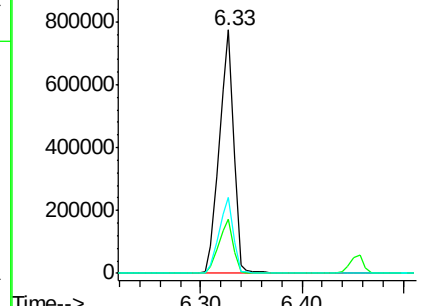
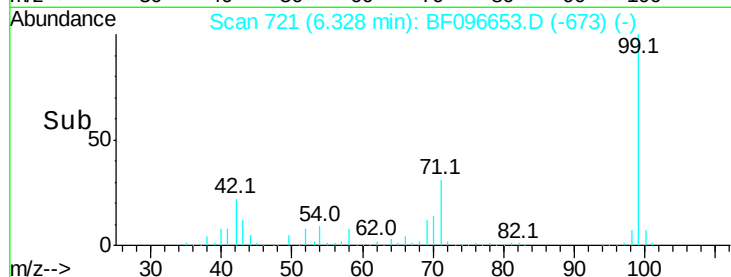
71 31.3 24.5 36.7



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: 11.358 ng

RT: 7.25 min Scan# 877

Delta R.T. 0.12 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Tgt Ion: 70 Resp: 63999

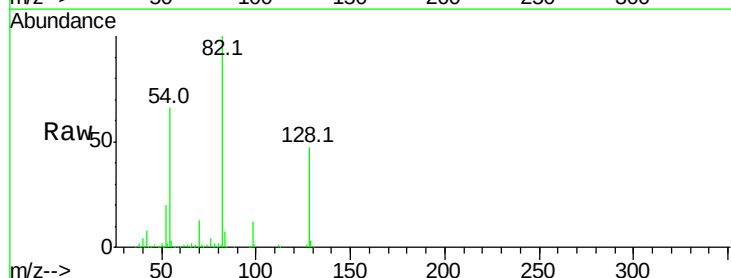
Ion Ratio Lower Upper

70 100

42 60.3 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

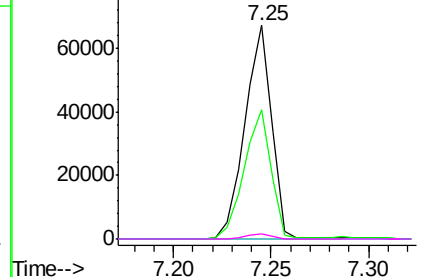
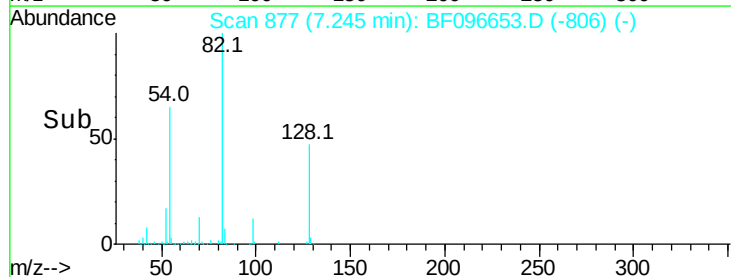


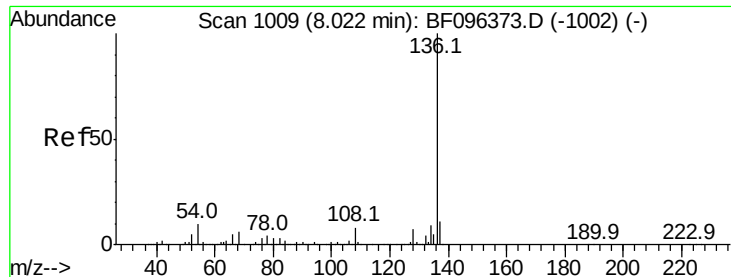
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

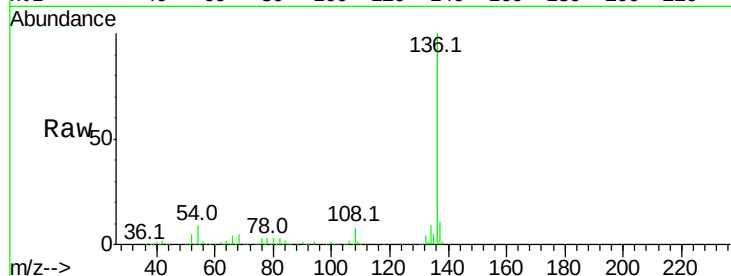




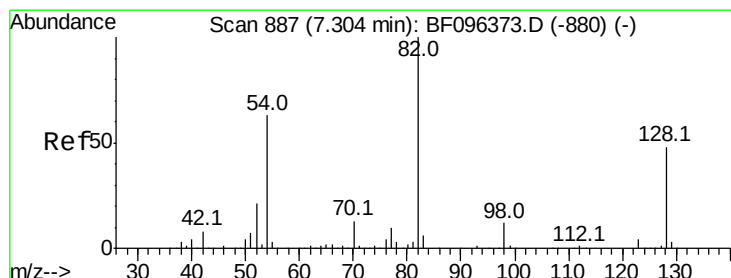
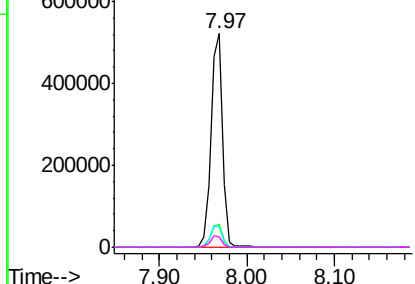
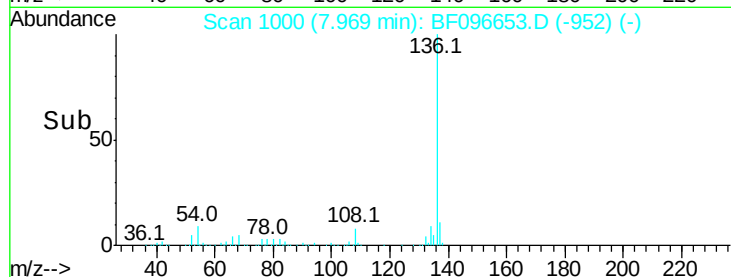
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.97 min Scan# 1000
Delta R.T. -0.02 min
Lab File: BF096653.D
Acq: 11 Jul 2017 19:22

Instrument :
BNA_F
ClientSampleId :
CIY-SB-020304-0-6

Tot Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	9.5	4.9	7.3#
68	4.9	4.1	6.1

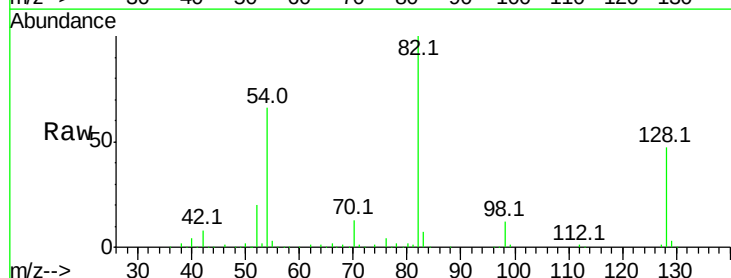


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

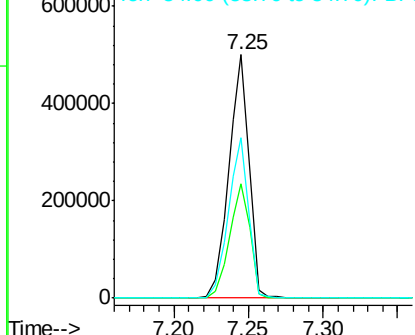
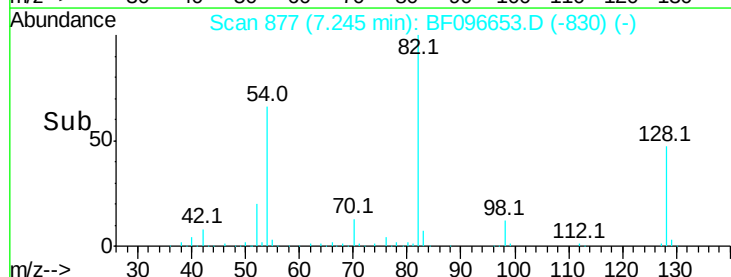


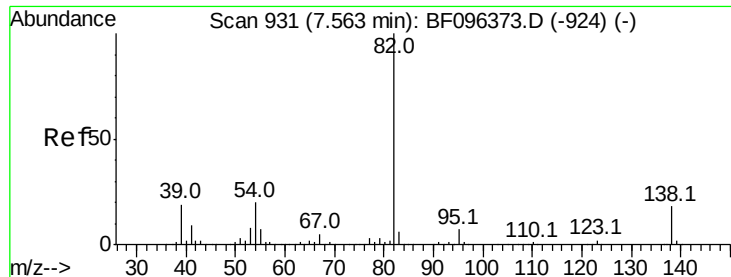
#23
Nitrobenzene-d5
Concen: 60.512 ng
RT: 7.25 min Scan# 877
Delta R.T. -0.02 min
Lab File: BF096653.D
Acq: 11 Jul 2017 19:22

Tgt Ion	Ratio	Lower	Upper
82	100		
128	47.0	34.0	51.0
54	65.7	42.2	63.2#



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





#25

Isophorone

Concen: 30.875 ng

RT: 7.25 min Scan# 877

Delta R.T. -0.28 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

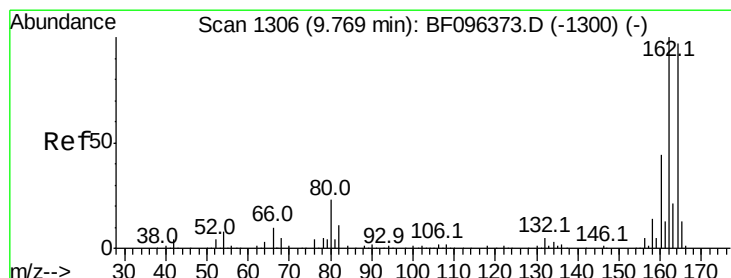
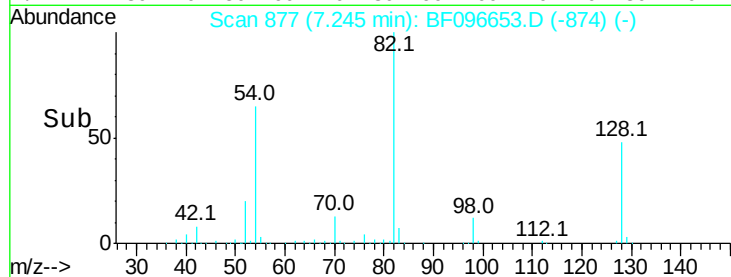
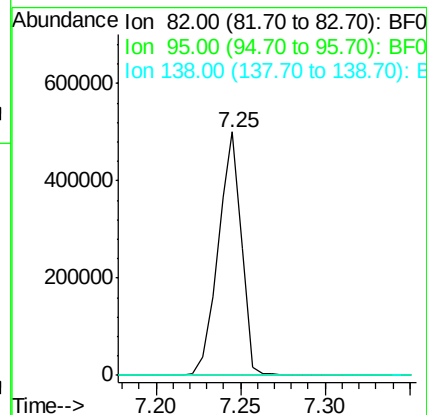
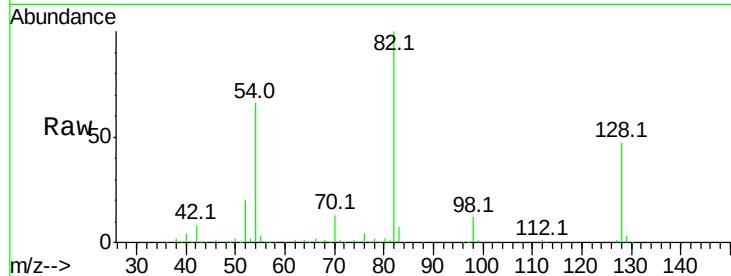
Tot Ion: 82 Resp: 476194

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

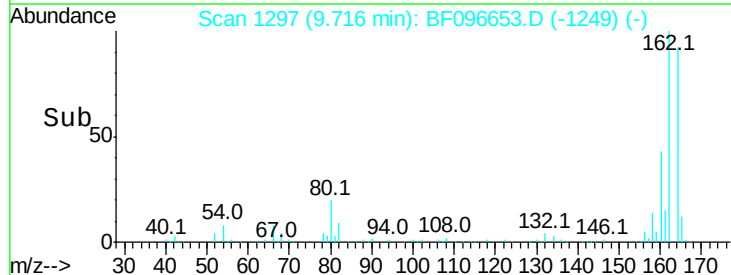
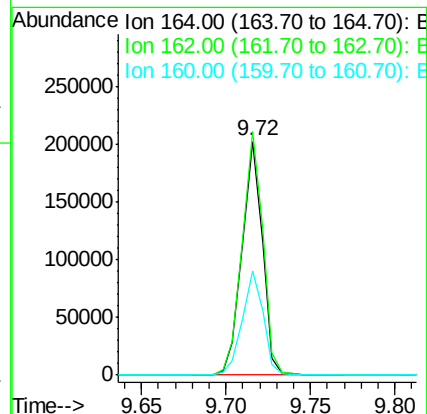
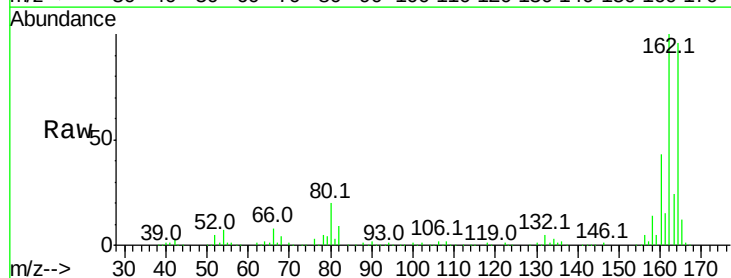
Tgt Ion:164 Resp: 169435

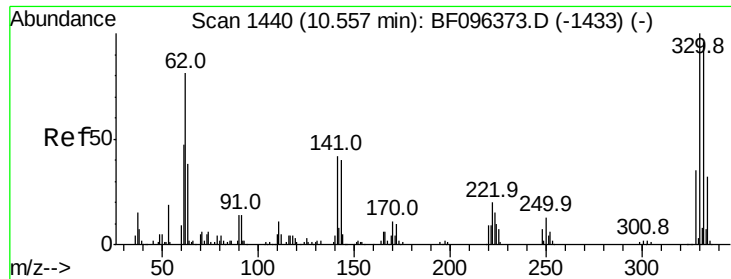
Ion Ratio Lower Upper

164 100

162 104.3 82.6 123.8

160 44.7 36.2 54.2

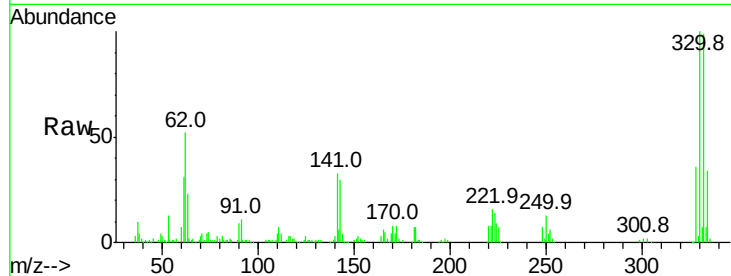




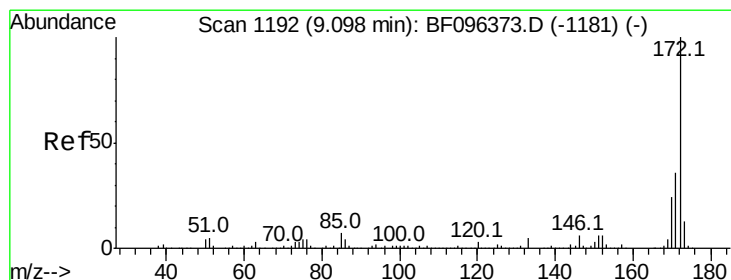
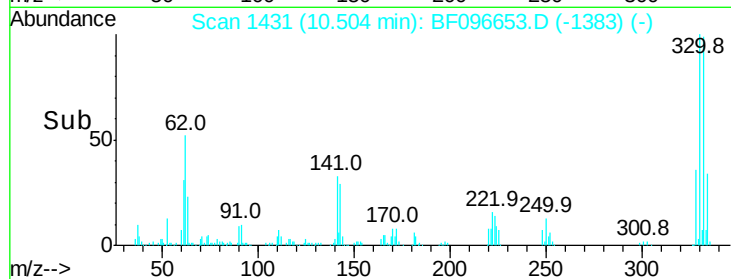
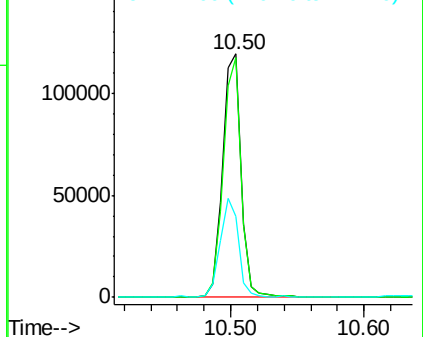
#41
 2,4,6-Tribromophenol
 Concen: 88.971 ng
 RT: 10.50 min Scan# 1431
 Delta R.T. -0.02 min
 Lab File: BF096653.D
 Acq: 11 Jul 2017 19:22

Instrument :
 BNA_F
 ClientSampleId :
 CIY-SB-020304-0-6

Tot Ion:330 Resp: 117753
 Ion Ratio Lower Upper
 330 100
 332 95.7 76.6 115.0
 141 40.4 31.4 47.2

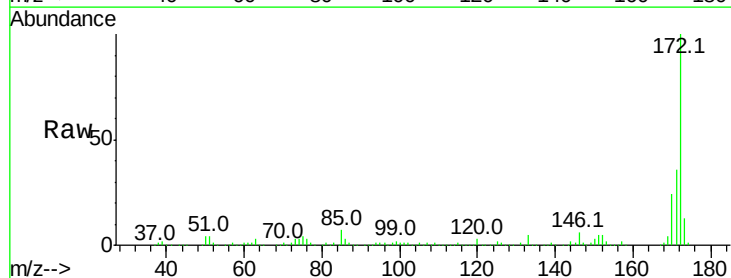


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

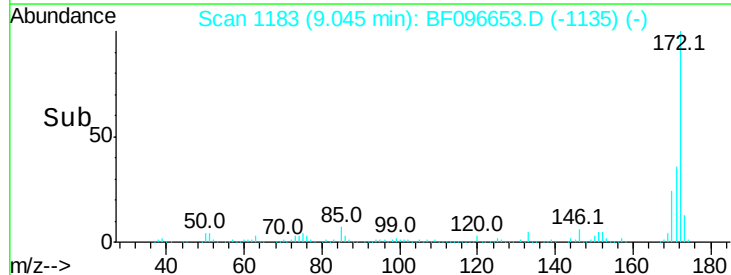
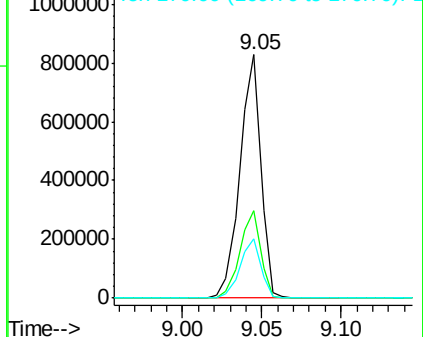


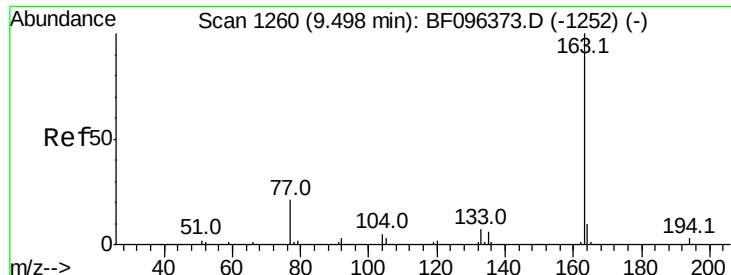
#44
 2-Fluorobiphenyl
 Concen: 76.672 ng
 RT: 9.05 min Scan# 1183
 Delta R.T. -0.02 min
 Lab File: BF096653.D
 Acq: 11 Jul 2017 19:22

Tgt Ion:172 Resp: 759801
 Ion Ratio Lower Upper
 172 100
 171 35.9 29.6 44.4
 170 24.4 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: 6.886 ng

RT: 9.43 min Scan# 1249

Delta R.T. -0.04 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

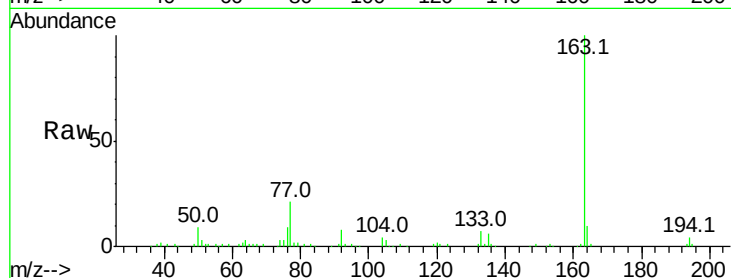
Tot Ion:163 Resp: 87095

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

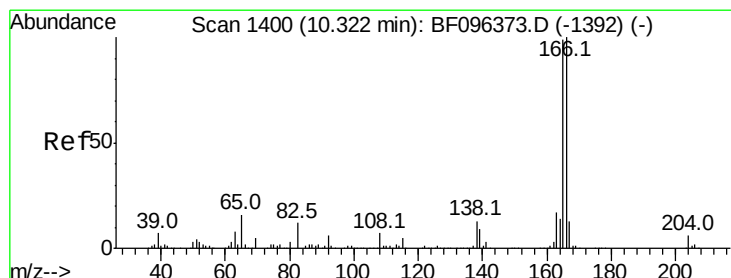
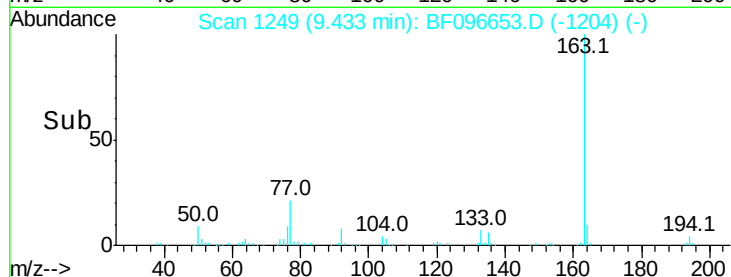
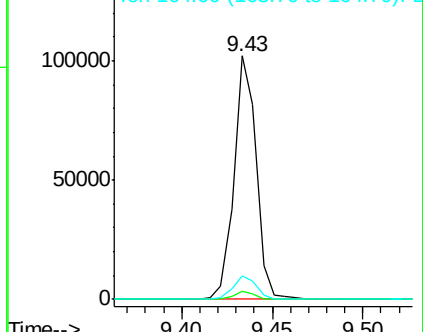
164 9.8 8.4 12.6



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



#57

Fluorene

Concen: 3.700 ng

RT: 10.26 min Scan# 1390

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

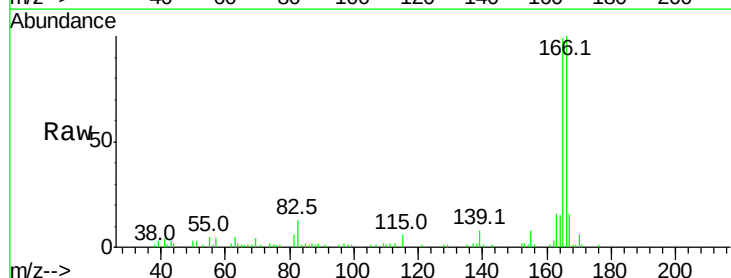
Tgt Ion:166 Resp: 36455

Ion Ratio Lower Upper

166 100

165 99.0 78.8 118.2

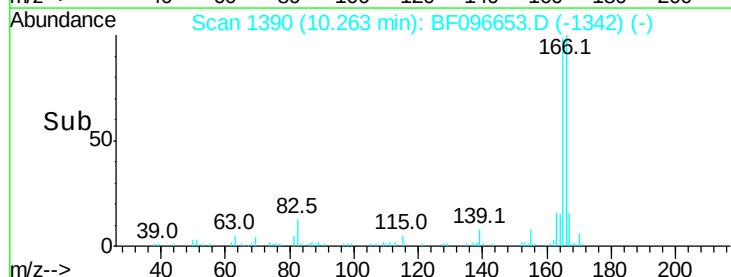
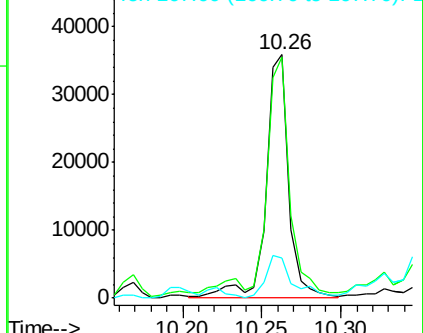
167 16.2 10.6 16.0#

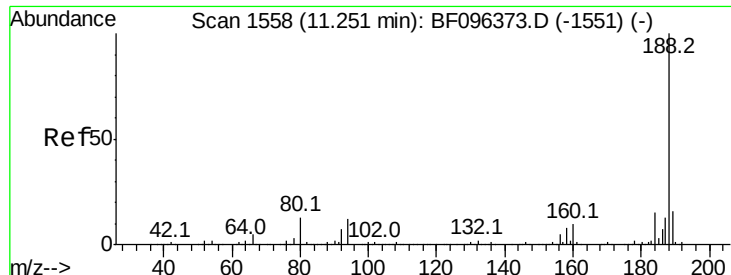


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.19 min Scan# 1548

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

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ClientSampleId :

CIY-SB-020304-0-6

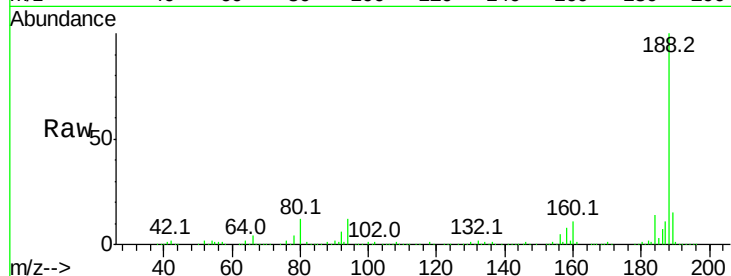
Tot Ion:188 Resp: 237511

Ion Ratio Lower Upper

188 100

94 11.6 9.4 14.2

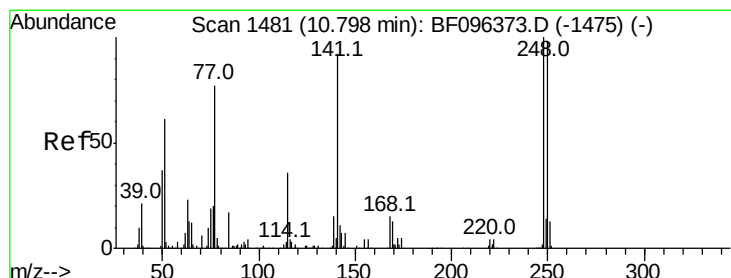
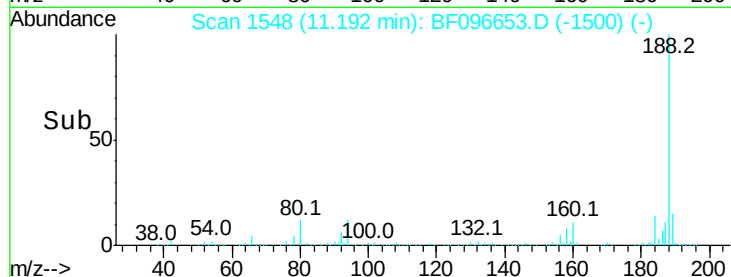
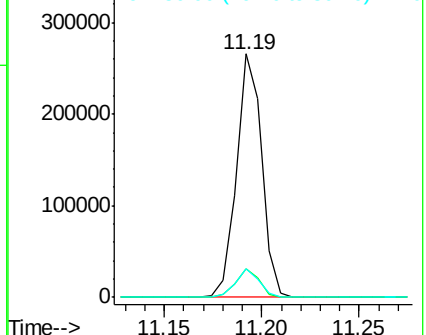
80 11.8 10.2 15.2



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



#66

4-Bromophenyl-phenylether

Concen: 3.380 ng

RT: 10.50 min Scan# 1431

Delta R.T. -0.26 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

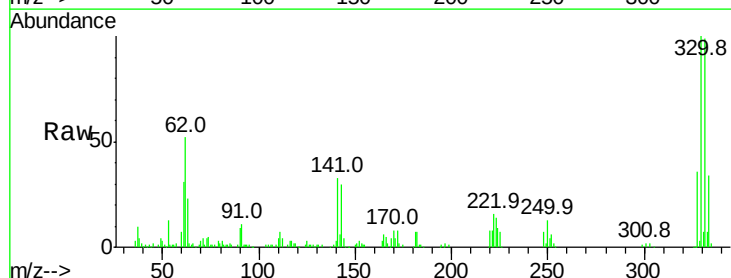
Tgt Ion:248 Resp: 7815

Ion Ratio Lower Upper

248 100

250 192.9 76.8 115.2#

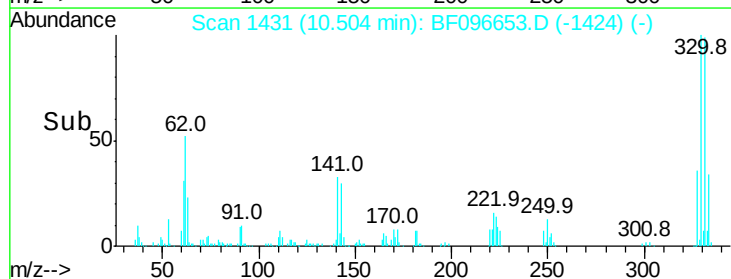
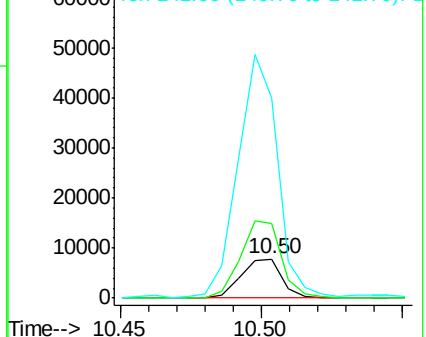
141 512.5 68.6 103.0#

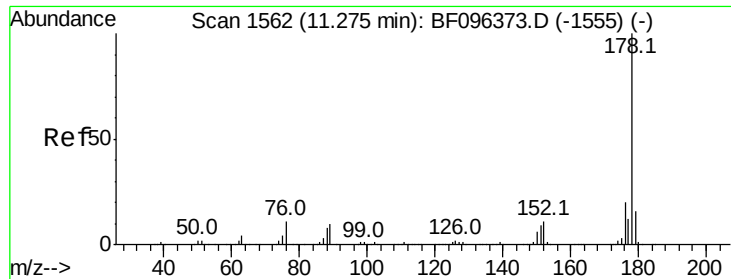


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 30.662 ng

RT: 11.22 min Scan# 1553

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

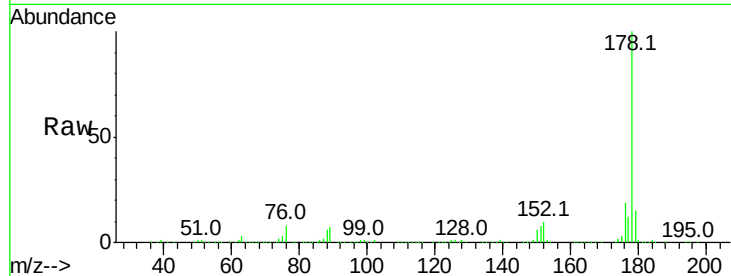
Tot Ion:178 Resp: 393676

Ion Ratio Lower Upper

178 100

176 19.4 16.2 24.4

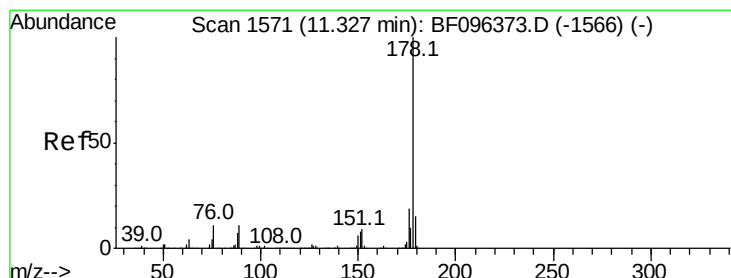
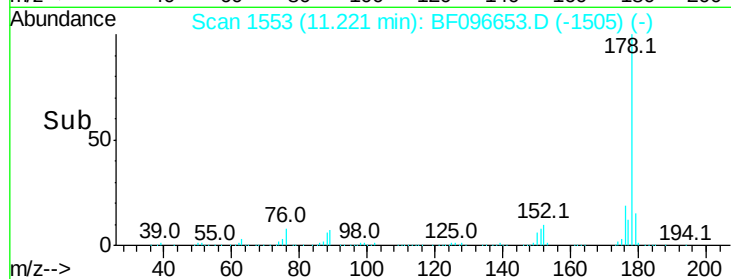
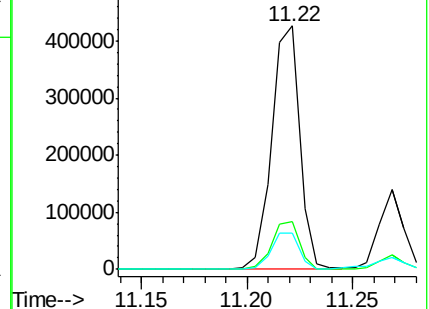
179 14.8 12.6 19.0



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



#71

Anthracene

Concen: 8.556 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

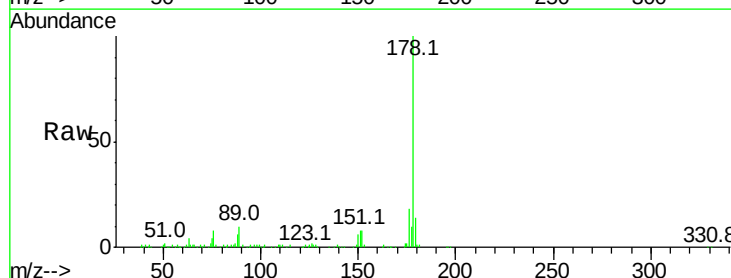
Tgt Ion:178 Resp: 111945

Ion Ratio Lower Upper

178 100

176 18.3 15.8 23.8

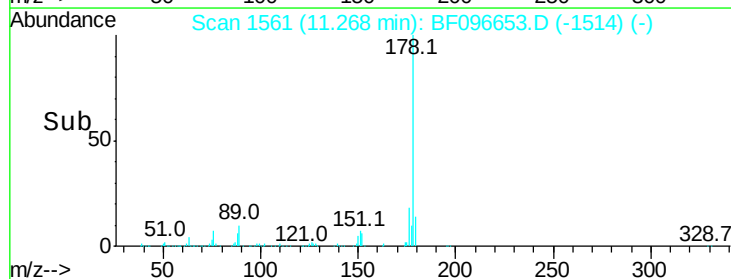
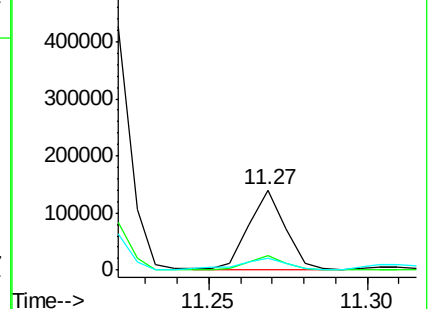
179 14.4 12.7 19.1

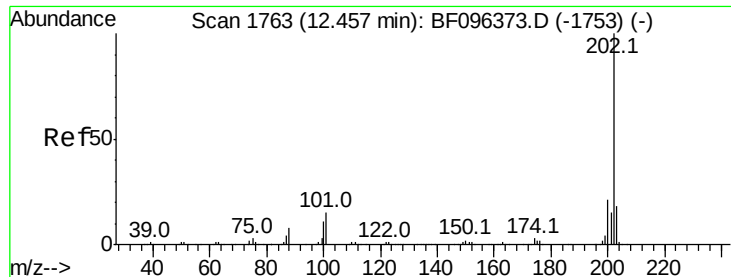


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 43.418 ng

RT: 12.40 min Scan# 1754

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

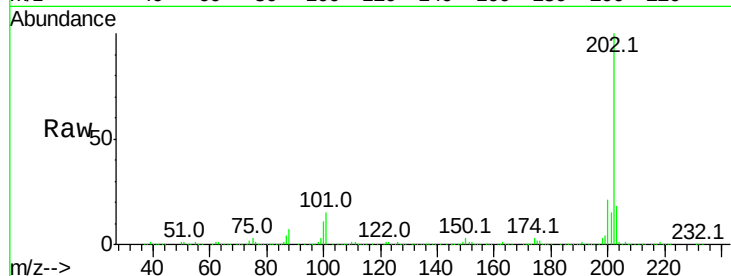
Tot Ion:202 Resp: 546547

Ion Ratio Lower Upper

202 100

101 14.6 0.0 33.2

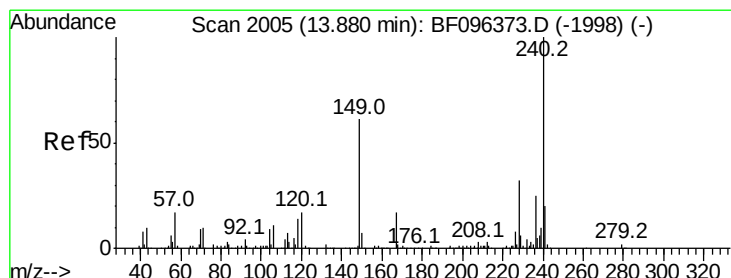
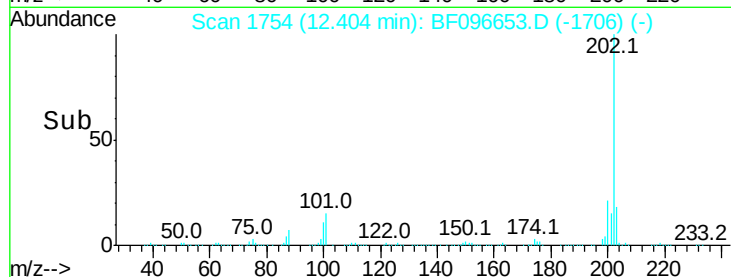
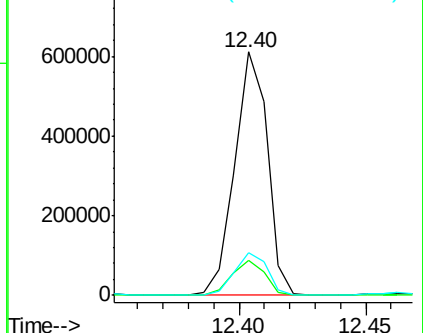
203 17.7 0.0 38.1



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: 20.000 ng

RT: 13.83 min Scan# 1996

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

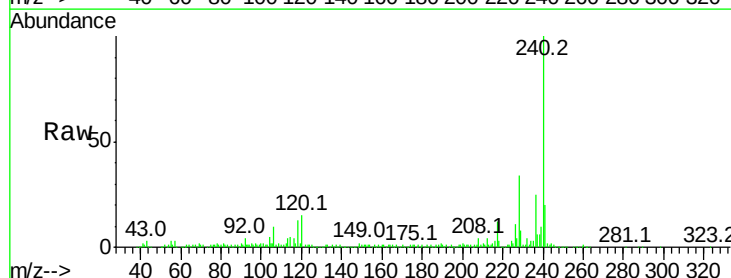
Tgt Ion:240 Resp: 207850

Ion Ratio Lower Upper

240 100

120 15.2 5.8 8.8#

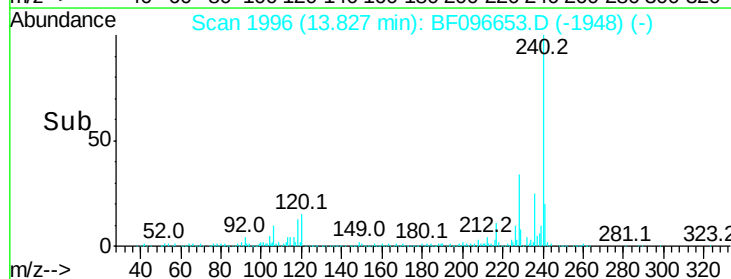
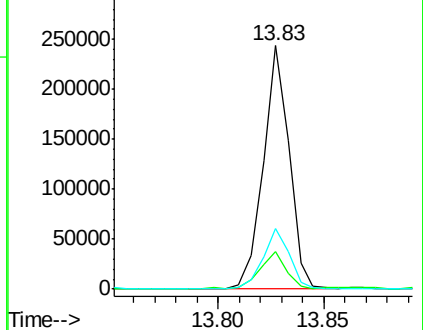
236 25.0 20.5 30.7

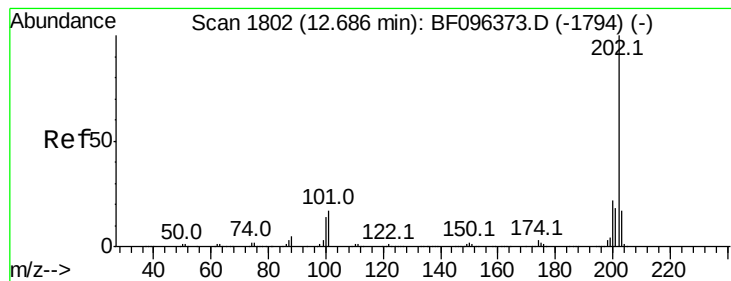


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 33.845 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

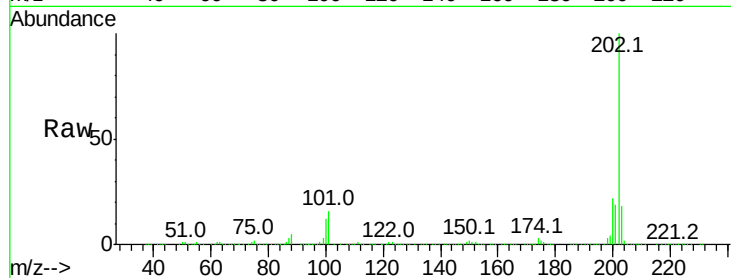
Tot Ion:202 Resp: 564656

Ion Ratio Lower Upper

202 100

200 21.7 17.6 26.4

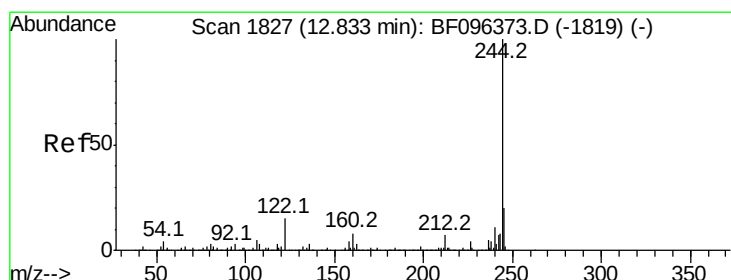
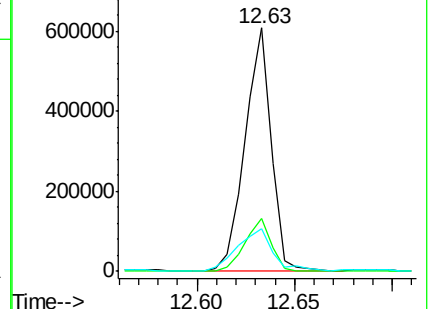
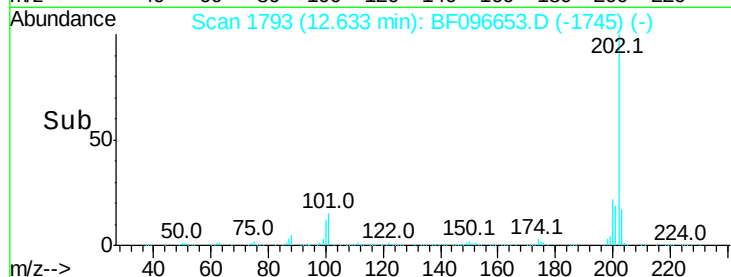
203 17.5 14.4 21.6



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: 43.964 ng

RT: 12.78 min Scan# 1818

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

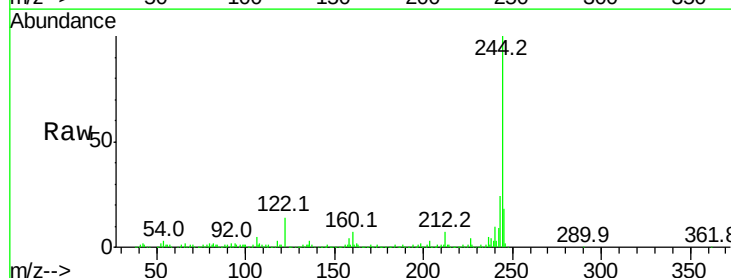
Tgt Ion:244 Resp: 427633

Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

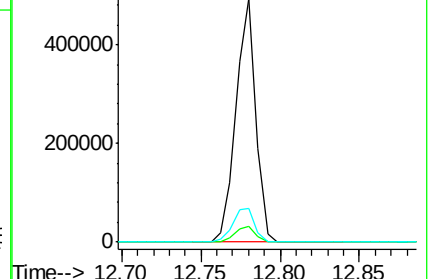
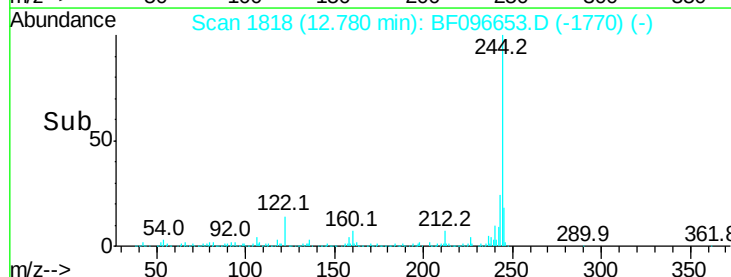
122 13.7 10.3 15.5

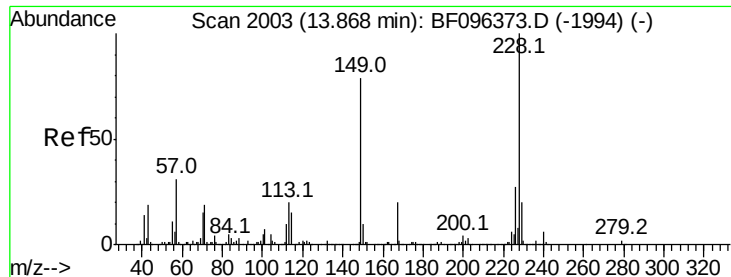


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 25.501 ng

RT: 13.82 min Scan# 1994

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

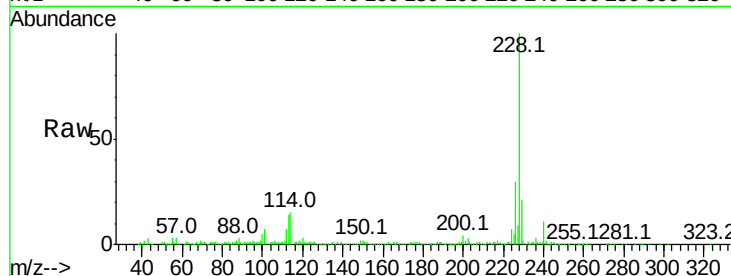
Tot Ion:228 Resp: 306938

Ion Ratio Lower Upper

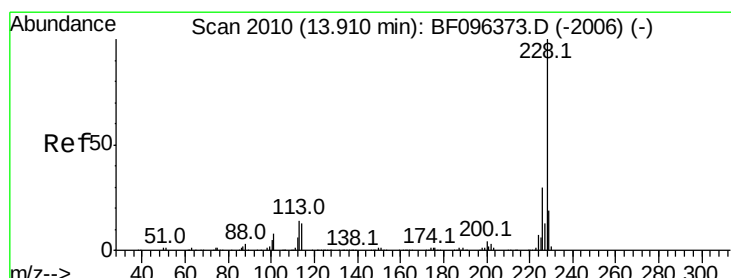
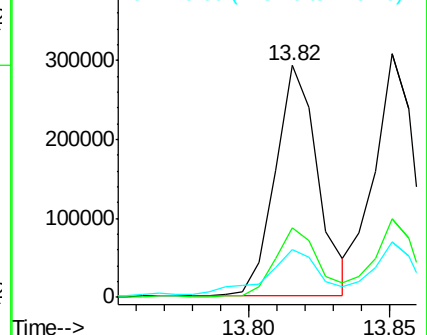
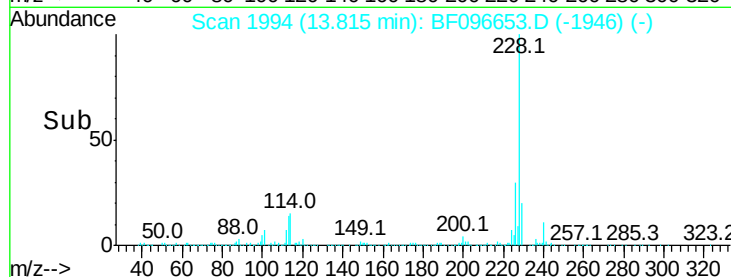
228 100

226 29.9 22.6 33.8

229 20.8 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: 23.489 ng

RT: 13.85 min Scan# 2000

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

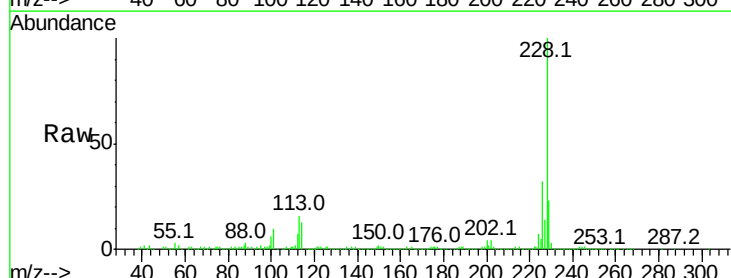
Tgt Ion:228 Resp: 296068

Ion Ratio Lower Upper

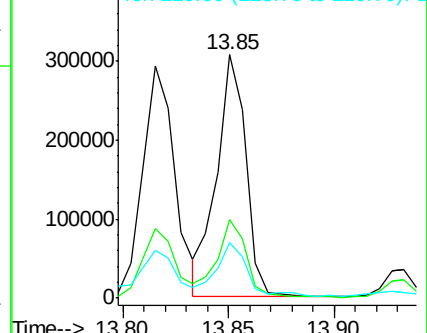
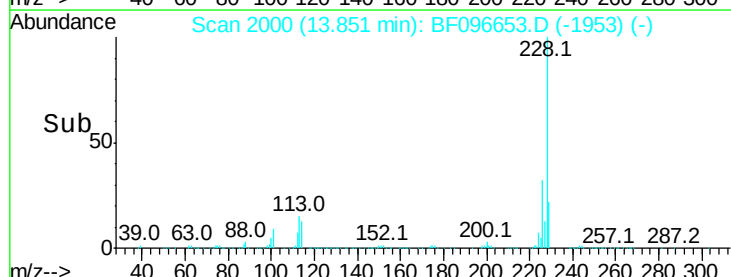
228 100

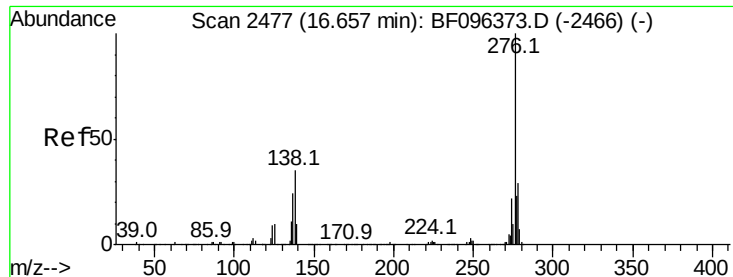
226 32.1 24.9 37.3

229 22.6 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

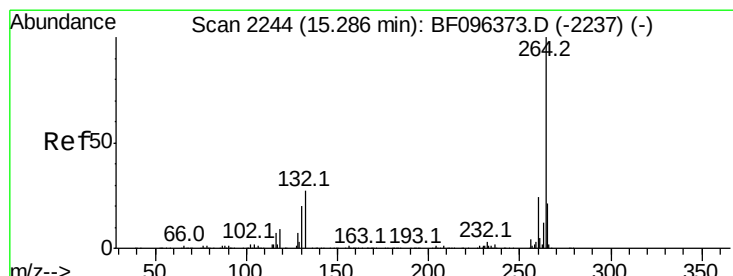
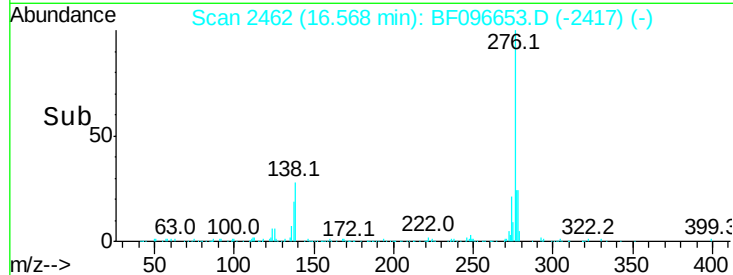
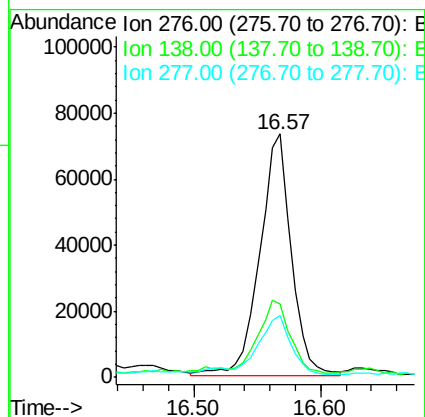
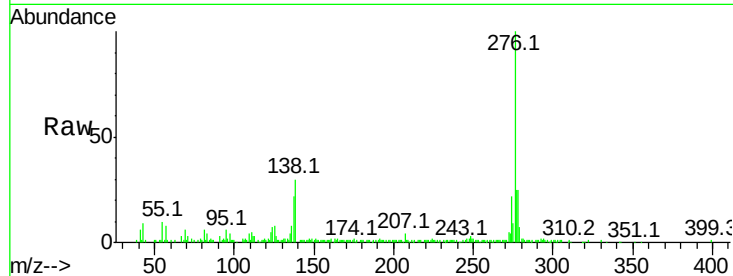




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 12.784 ng
 RT: 16.57 min Scan# 2462
 Delta R.T. -0.04 min
 Lab File: BF096653.D
 Acq: 11 Jul 2017 19:22

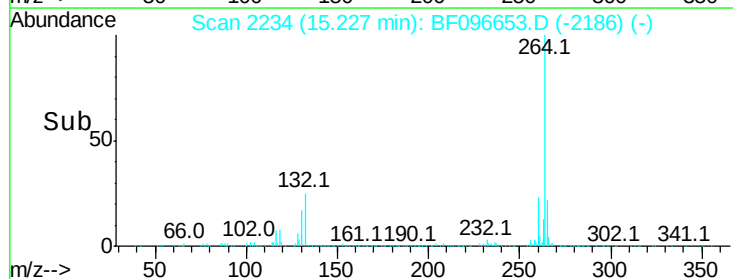
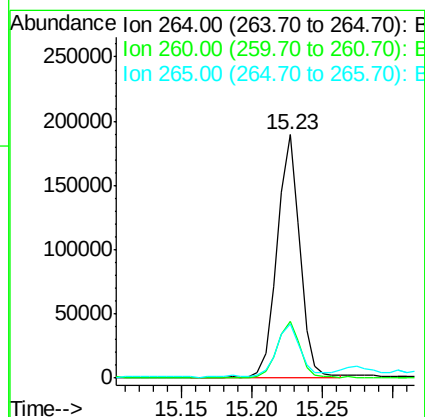
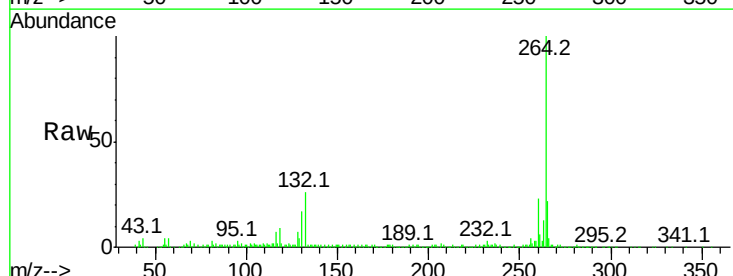
Instrument :
 BNA_F
 ClientSampleId :
 CIY-SB-020304-0-6

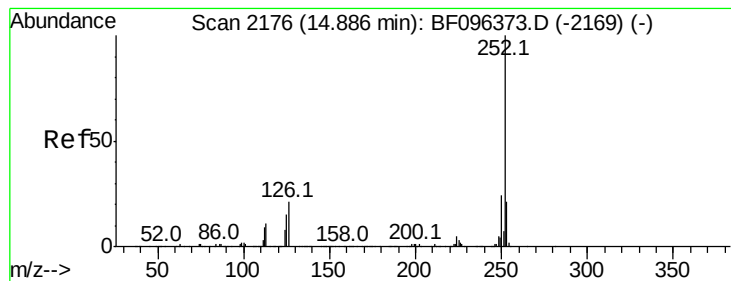
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.7	27.8	41.6
277	24.4	20.2	30.4



#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.23 min Scan# 2234
 Delta R.T. -0.02 min
 Lab File: BF096653.D
 Acq: 11 Jul 2017 19:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.5	29.3
265	22.3	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 30.236 ng

RT: 14.83 min Scan# 2167

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

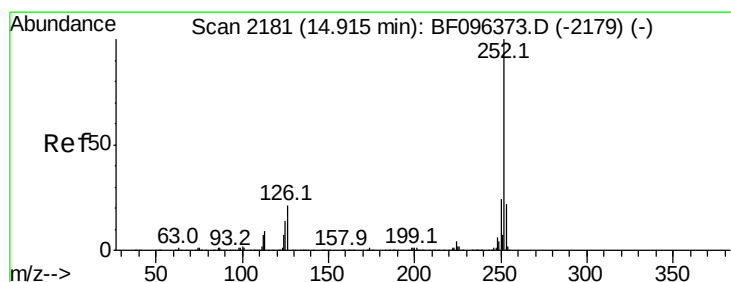
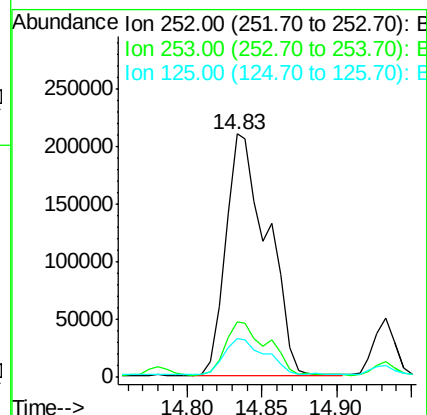
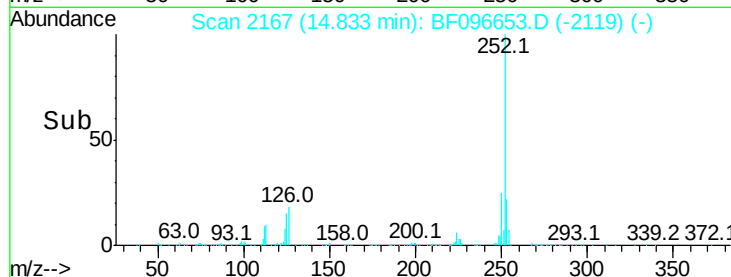
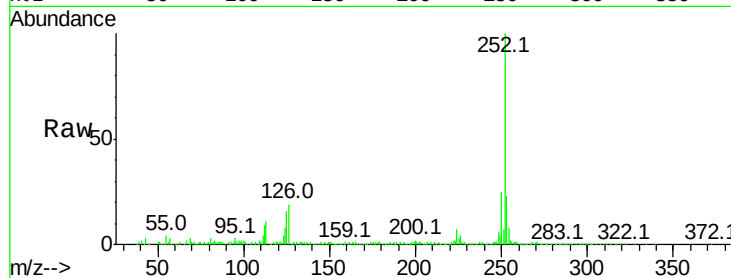
Tot Ion:252 Resp: 407338

Ion Ratio Lower Upper

252 100

253 22.9 18.1 27.1

125 16.0 9.8 14.8#



#88

Benzo(k)fluoranthene

Concen: 33.802 ng

RT: 14.83 min Scan# 2167

Delta R.T. -0.05 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

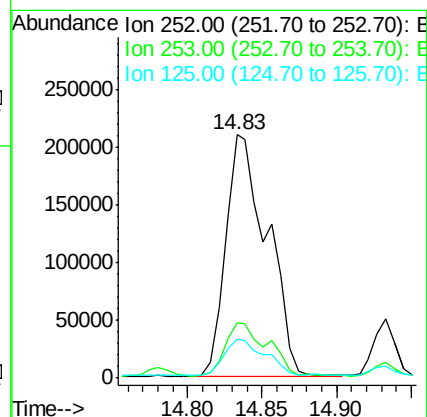
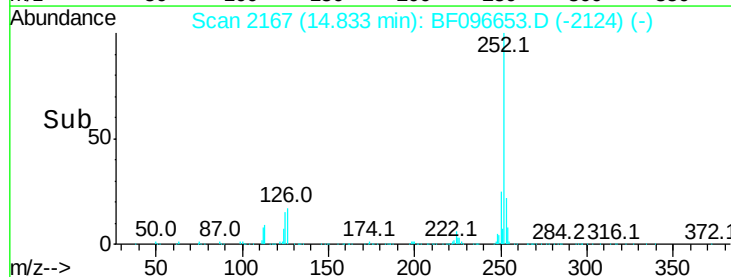
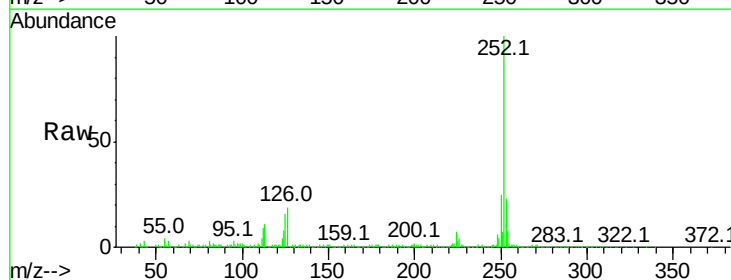
Tgt Ion:252 Resp: 407338

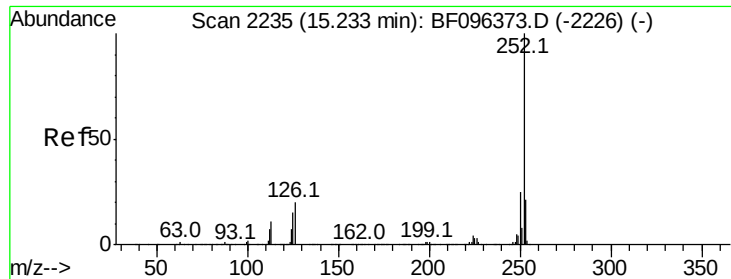
Ion Ratio Lower Upper

252 100

253 22.9 18.4 27.6

125 16.0 13.1 19.7





#89

Benzo(a)pyrene

Concen: 20.750 ng

RT: 15.17 min Scan# 2224

Delta R.T. -0.02 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

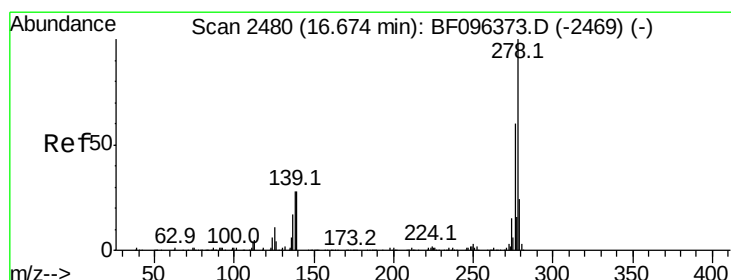
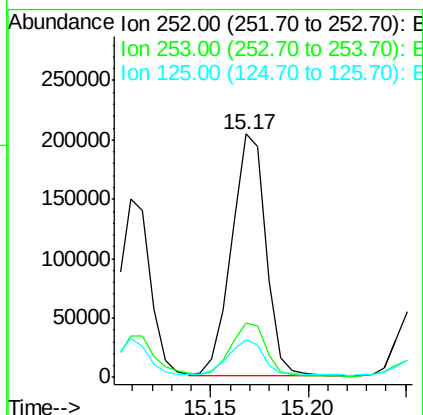
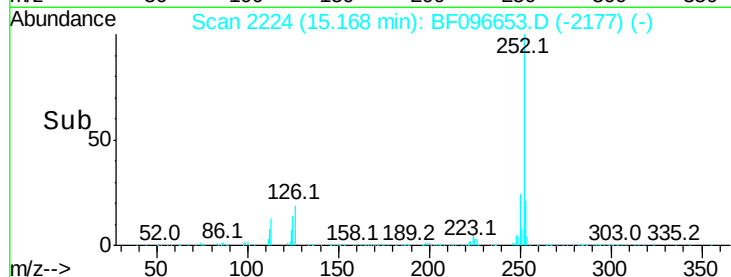
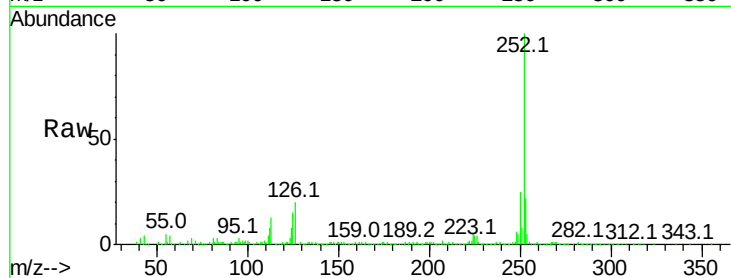
Tot Ion:252 Resp: 249576

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 15.4 11.0 16.4



#90

Dibenzo(a,h)anthracene

Concen: 3.724 ng

RT: 16.57 min Scan# 2462

Delta R.T. -0.05 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

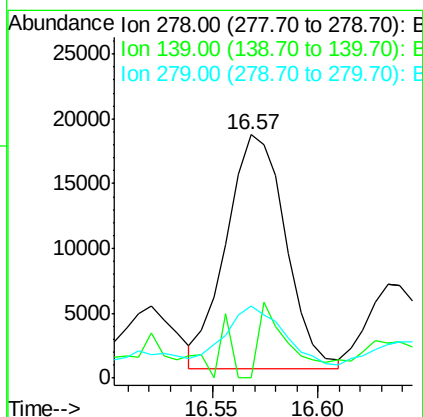
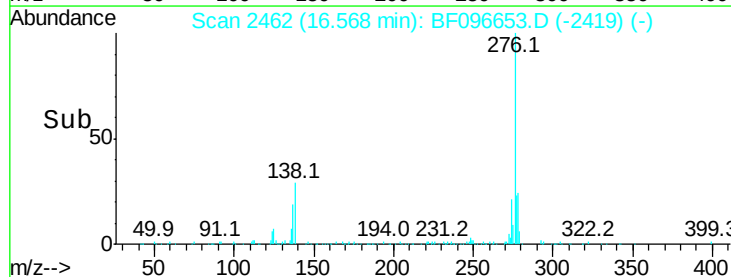
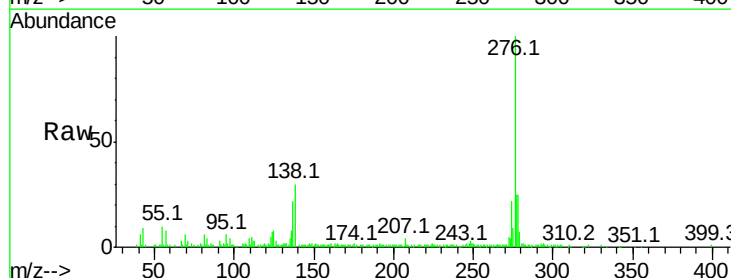
Tgt Ion:278 Resp: 35234

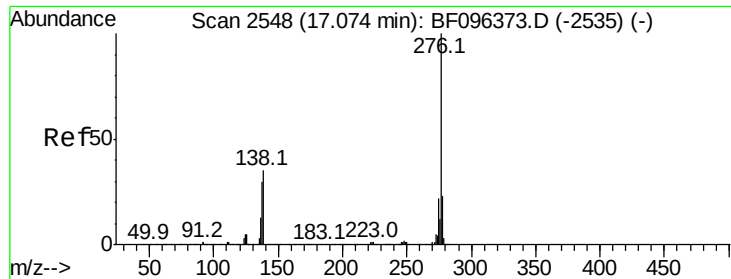
Ion Ratio Lower Upper

278 100

139 0.0 16.6 24.8#

279 29.4 19.3 28.9#





#91

Benzo(a,h,i)perylene

Concen: 12.666 ng

RT: 16.97 min Scan# 2530

Delta R.T. -0.04 min

Lab File: BF096653.D

Acq: 11 Jul 2017 19:22

Instrument :

BNA_F

ClientSampleId :

CIY-SB-020304-0-6

Tot Ion:276 Resp: 124188

Ion Ratio Lower Upper

276 100

277 23.5 18.6 28.0

138 31.5 25.4 38.0

