

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070517\
 Data File : BF096476.D
 Acq On : 5 Jul 2017 11:41
 Operator : SJ/MA
 Sample : I4031-01 5X
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 05 13:16:51 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 03 01:43:12 2017
 Response via : Initial Calibration

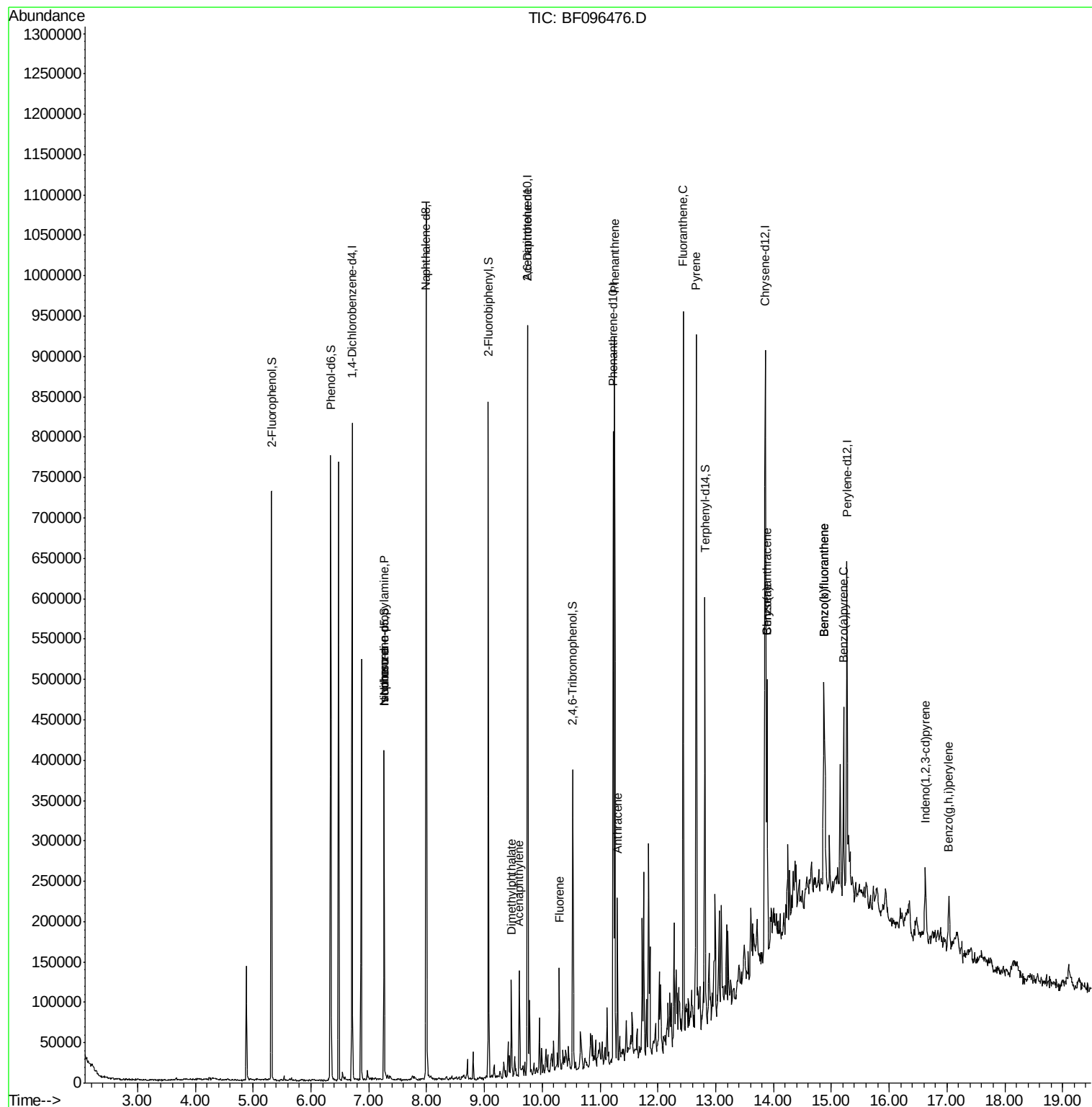
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.71	152	112349	20.00	ng	-0.02
21) Naphthalene-d8	7.99	136	457142	20.00	ng	-0.03
38) Acenaphthene-d10	9.75	164	184003	20.00	ng	-0.02
63) Phenanthrene-d10	11.23	188	265003	20.00	ng	-0.02
75) Chrysene-d12	13.86	240	205872	20.00	ng	-0.02
86) Perylene-d12	15.27	264	171686	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	207516	27.26	ng	-0.03
7) Phenol-d6	6.34	99	218326	23.33	ng	-0.04
23) Nitrobenzene-d5	7.27	82	118523	15.58	ng	-0.04
41) 2,4,6-Tribromophenol	10.53	330	37219	25.90	ng	-0.02
44) 2-Fluorobiphenyl	9.07	172	234608	21.80	ng	-0.03
78) Terphenyl-d14	12.81	244	136852	14.20	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.26	70	14877	2.67	ng	# 88
25) Isophorone	7.27	82	118349	8.02	ng	# 67
48) Acenaphthylene	9.60	152	49117	2.64	ng	98
49) Dimethylphthalate	9.46	163	34563	2.52	ng	98
50) 2,6-Dinitrotoluene	9.75	165	24273	7.99	ng	# 32
57) Fluorene	10.29	166	32274	3.02	ng	98
70) Phenanthrene	11.25	178	294873	20.58	ng	99
71) Anthracene	11.30	178	79697	5.46	ng	95
74) Fluoranthene	12.44	202	347663	24.75	ng	99
77) Pyrene	12.66	202	346448	20.97	ng	99
80) Benzo(a)anthracene	13.89	228	134400	11.27	ng	97
82) Chrysene	13.89	228	134400	10.77	ng	99
85) Indeno(1,2,3-cd)pyrene	16.63	276	46228	4.69	ng	96
87) Benzo(b)fluoranthene	14.87	252	179103	16.65	ng	# 95
88) Benzo(k)fluoranthene	14.87	252	179103	18.61	ng	98
89) Benzo(a)pyrene	15.21	252	100597	10.47	ng	97
91) Benzo(a,h,i)perylene	17.03	276	53268	6.80	ng	95

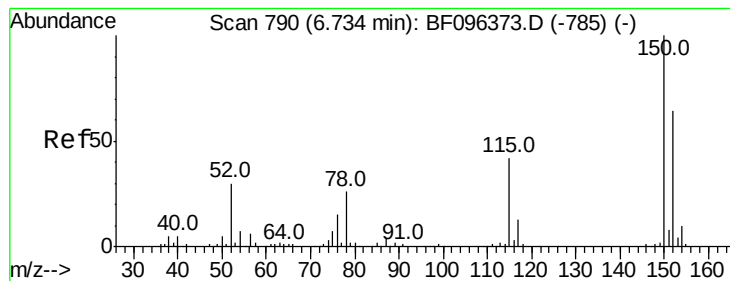
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.71 min Scan# 786

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampled :

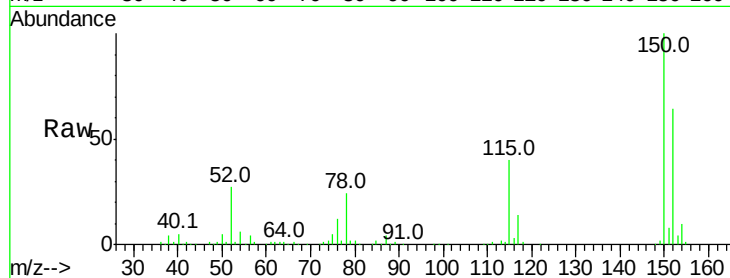
Tot Ion:152 Resp: 112349

Ion Ratio Lower Upper

152 100

150 156.1 126.2 189.2

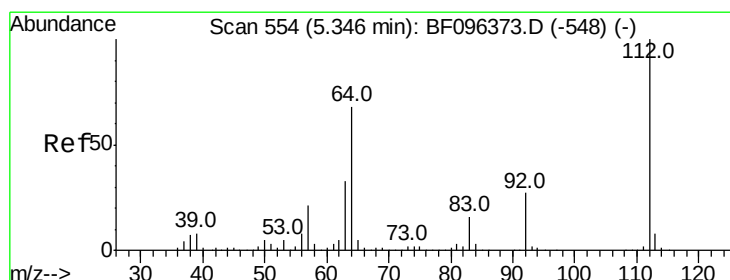
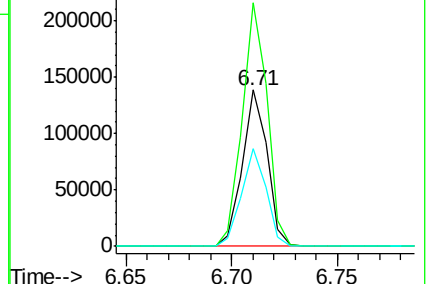
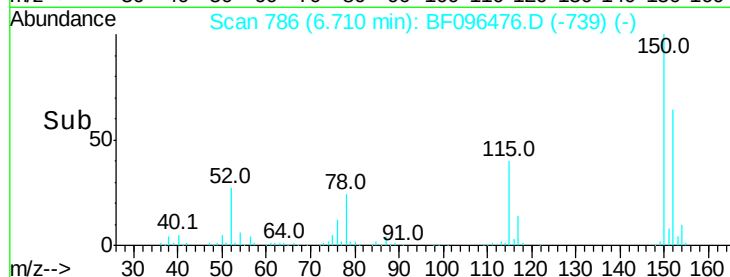
115 62.9 52.2 78.2



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: 27.26 ng

RT: 5.32 min Scan# 549

Delta R.T. -0.03 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

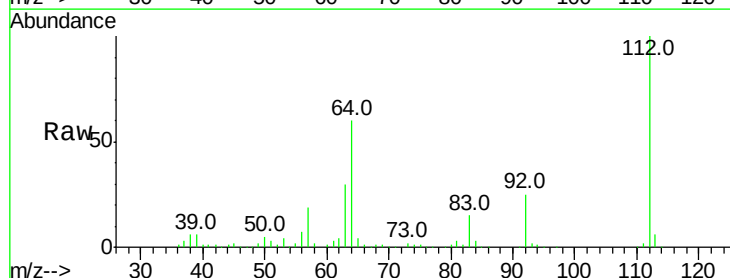
Tgt Ion:112 Resp: 207516

Ion Ratio Lower Upper

112 100

64 59.8 46.0 69.0

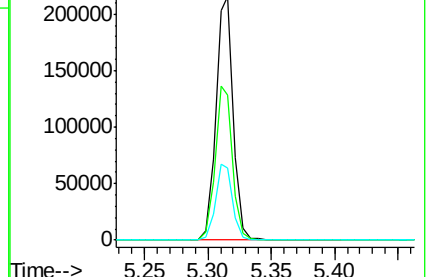
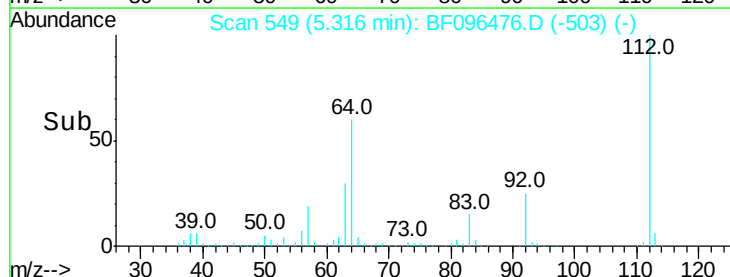
63 29.8 23.4 35.0

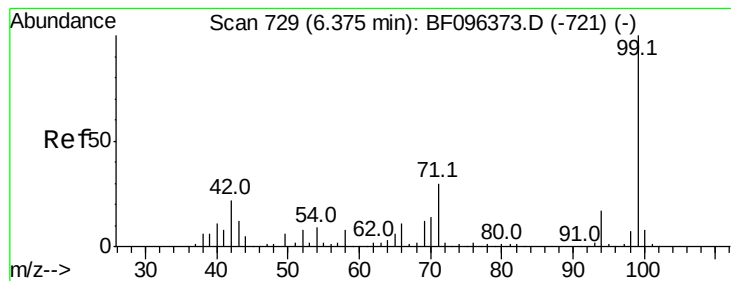


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 23.33 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.04 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampleId :

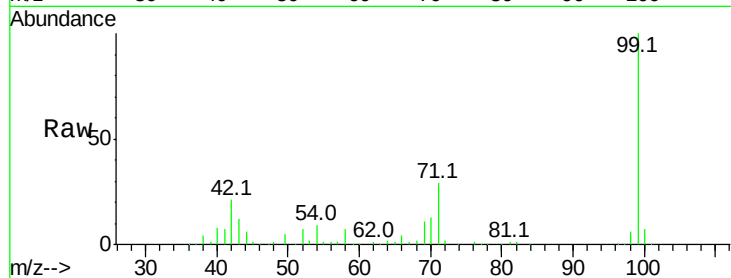
Tot Ion: 99 Resp: 218326

Ion Ratio Lower Upper

99 100

42 21.4 13.5 20.3#

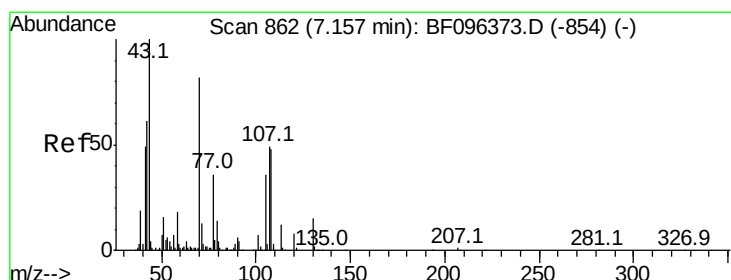
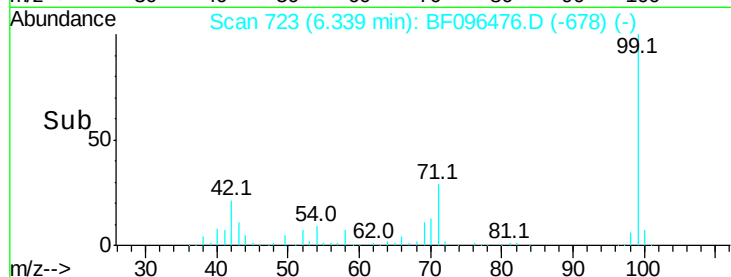
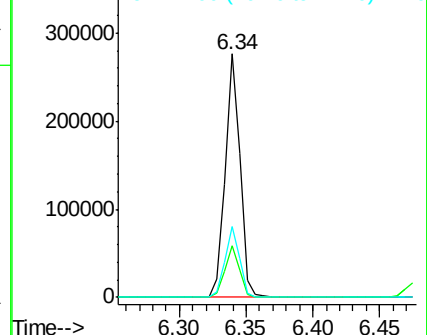
71 28.9 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 2.67 ng

RT: 7.26 min Scan# 880

Delta R.T. 0.11 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Tgt Ion: 70 Resp: 14877

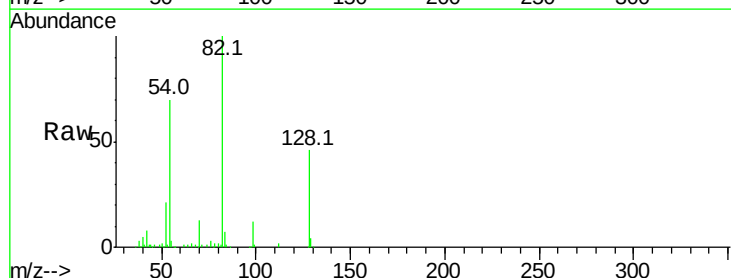
Ion Ratio Lower Upper

70 100

42 59.6 47.2 70.8

101 0.0 7.2 10.8#

130 2.3 15.9 23.9#

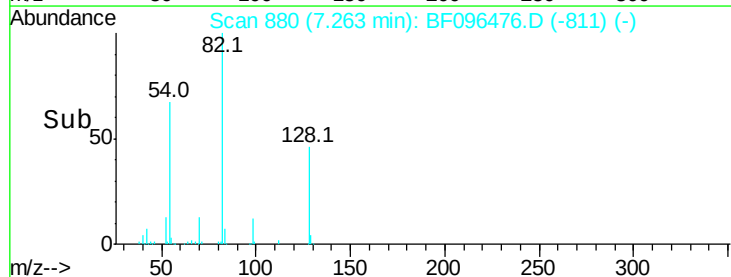
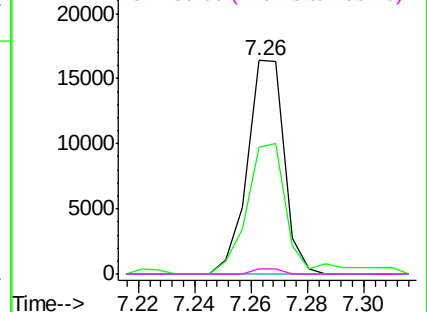


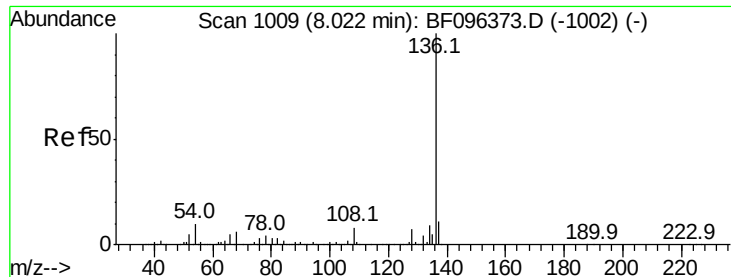
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.99 min Scan# 1004

Delta R.T. -0.03 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 457142

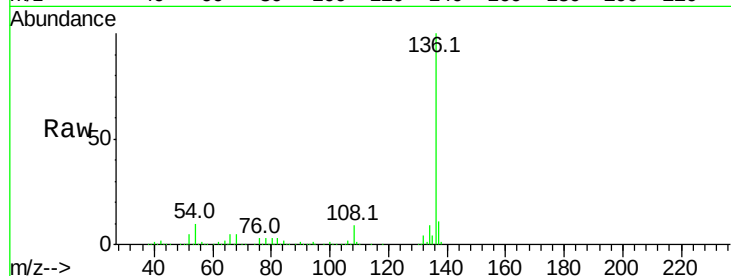
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 10.3 4.9 7.3#

68 5.0 4.1 6.1

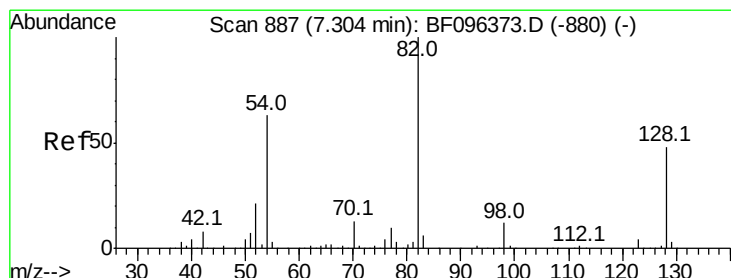
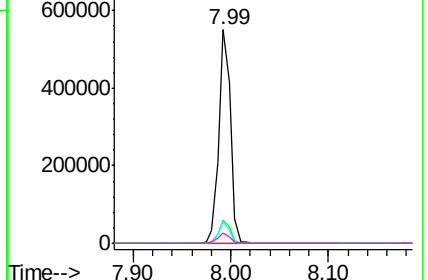
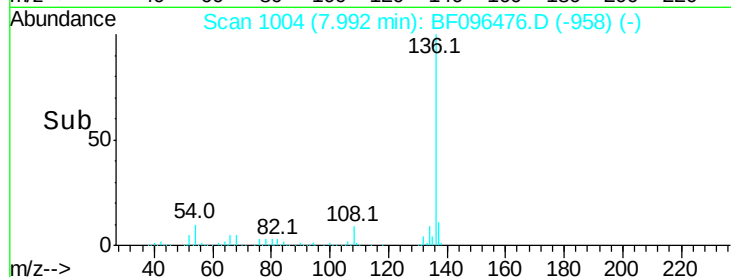


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 15.58 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.04 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

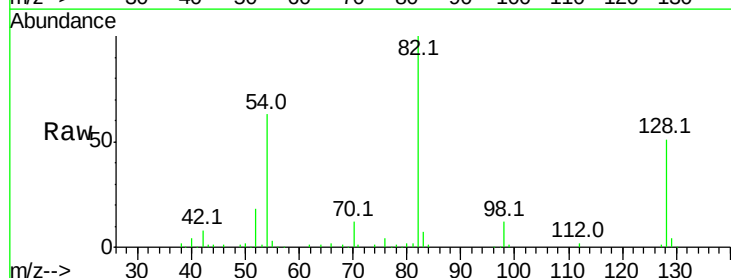
Tgt Ion: 82 Resp: 118523

Ion Ratio Lower Upper

82 100

128 50.5 34.0 51.0

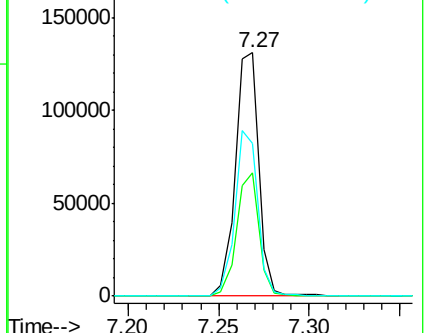
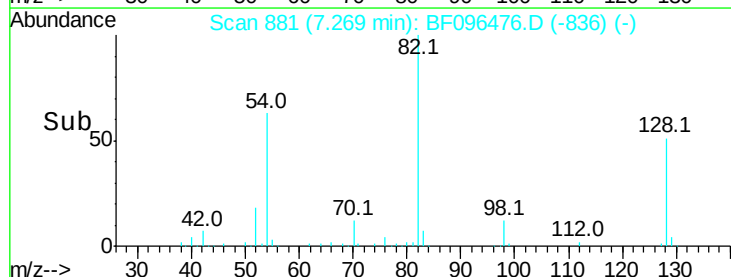
54 62.9 42.2 63.2

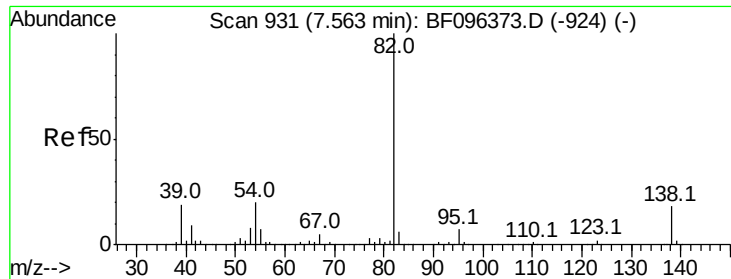


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.02 ng

RT: 7.27 min Scan# 881

Delta R.T. -0.29 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampleId :

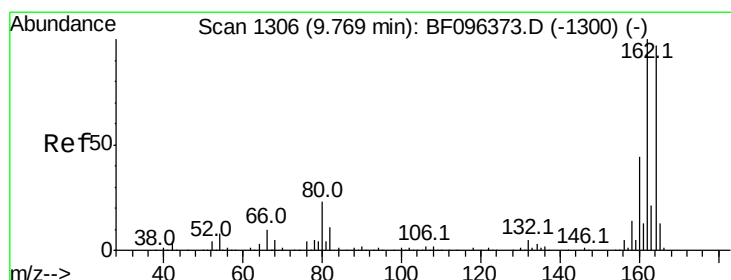
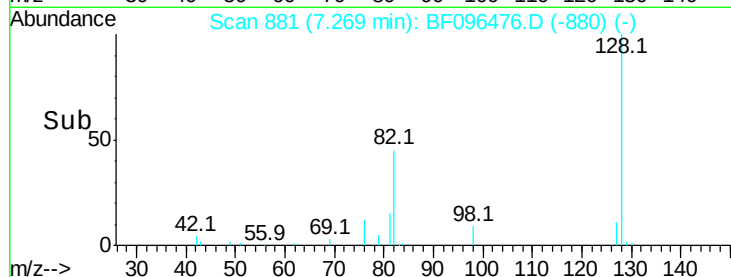
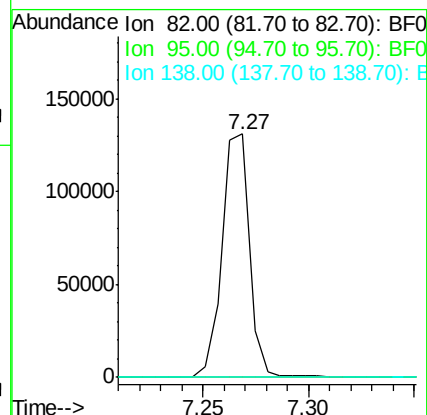
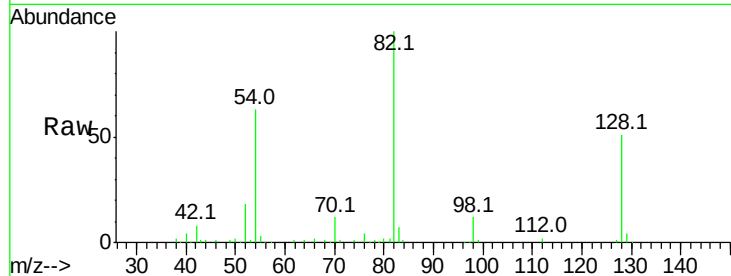
Tot Ion: 82 Resp: 118349

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

138 0.0 13.1 19.7#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.75 min Scan# 1302

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

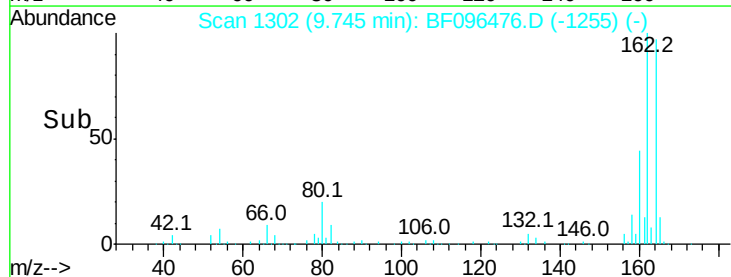
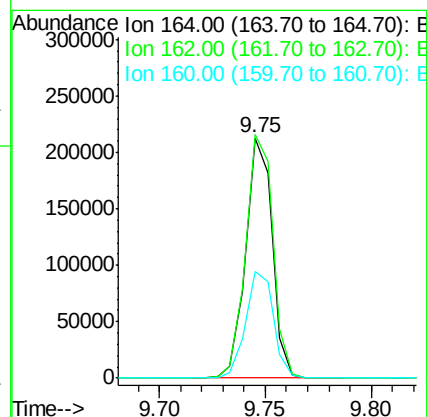
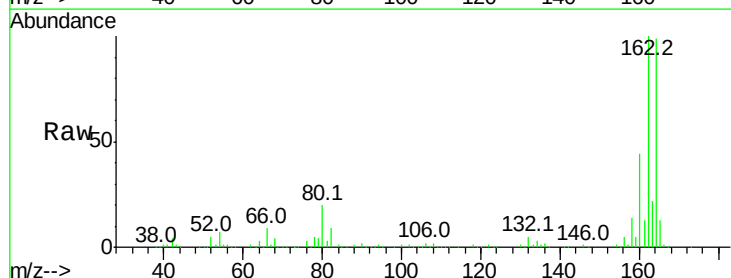
Tgt Ion:164 Resp: 184003

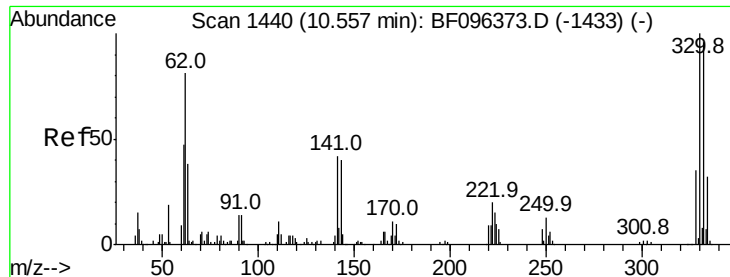
Ion Ratio Lower Upper

164 100

162 101.5 82.6 123.8

160 44.3 36.2 54.2

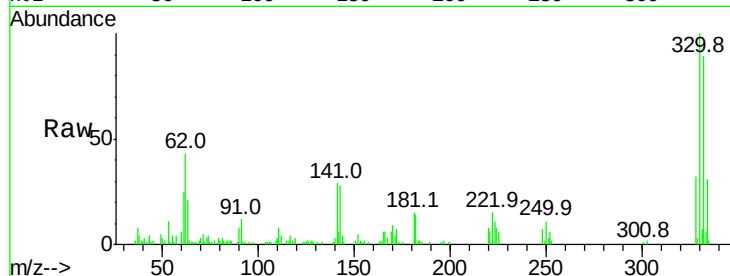




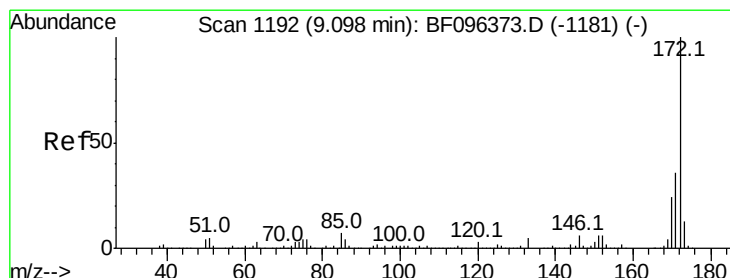
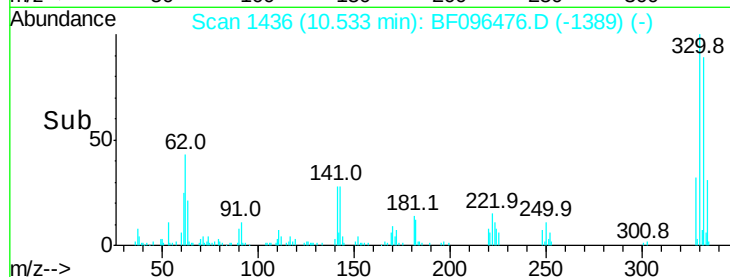
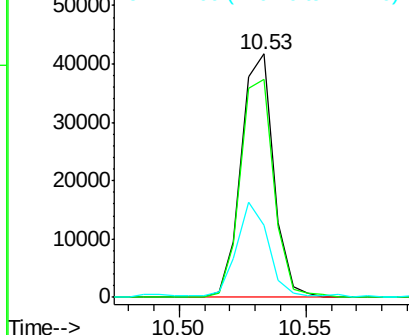
#41
 2,4,6-Tribromophenol
 Concen: 25.90 ng
 RT: 10.53 min Scan# 1436
 Delta R.T. -0.02 min
 Lab File: BF096476.D
 Acq: 5 Jul 2017 11:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 37219
 Ion Ratio Lower Upper
 330 100
 332 92.6 76.6 115.0
 141 39.3 31.4 47.2

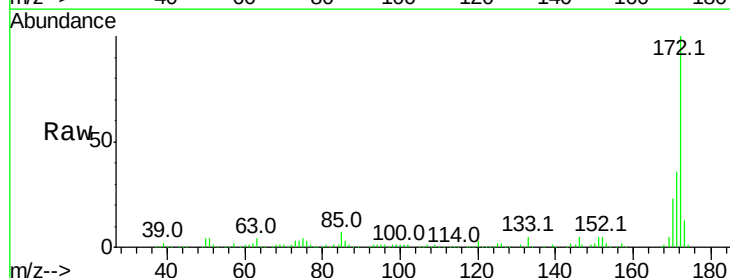


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

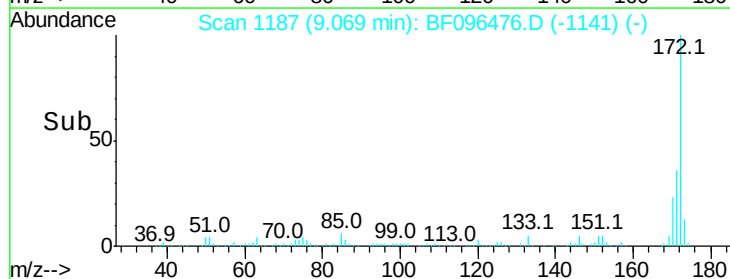
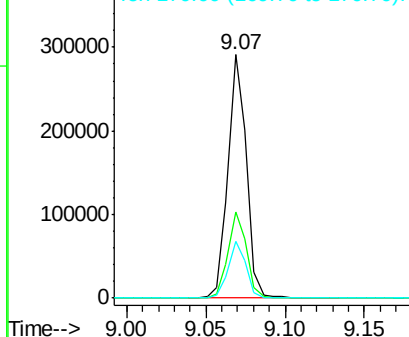


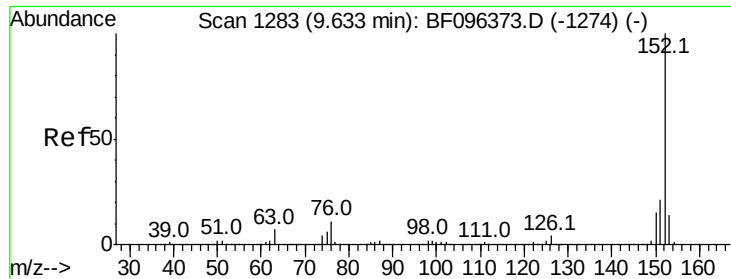
#44
 2-Fluorobiphenyl
 Concen: 21.80 ng
 RT: 9.07 min Scan# 1187
 Delta R.T. -0.03 min
 Lab File: BF096476.D
 Acq: 5 Jul 2017 11:41

Tgt Ion:172 Resp: 234608
 Ion Ratio Lower Upper
 172 100
 171 35.6 29.6 44.4
 170 23.3 19.8 29.8



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





#48

Acenaphthylene

Concen: 2.64 ng

RT: 9.60 min Scan# 1278

Delta R.T. -0.03 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampleId :

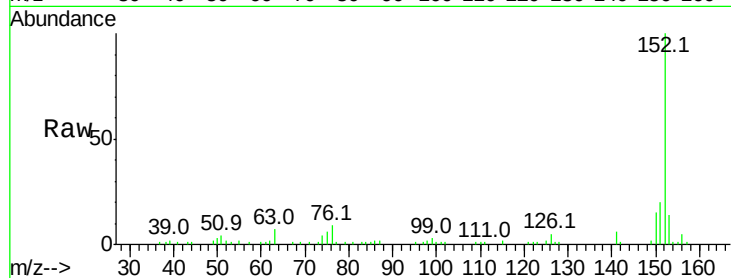
Tot Ion:152 Resp: 49117

Ion Ratio Lower Upper

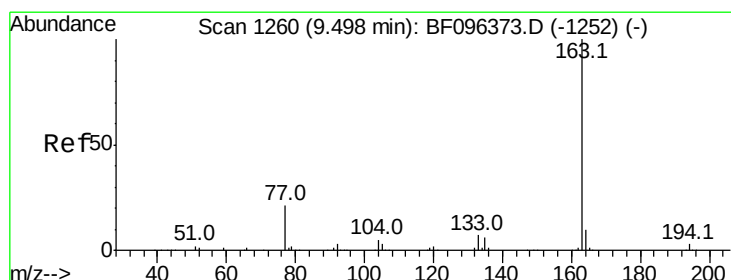
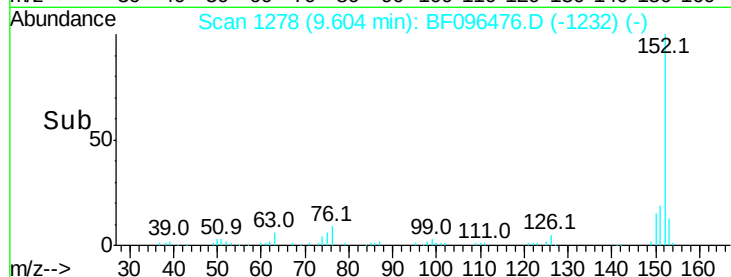
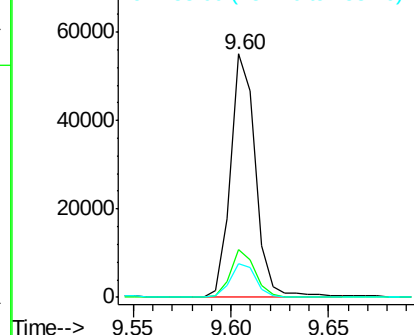
152 100

151 19.7 16.8 25.2

153 14.0 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.52 ng

RT: 9.46 min Scan# 1254

Delta R.T. -0.04 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

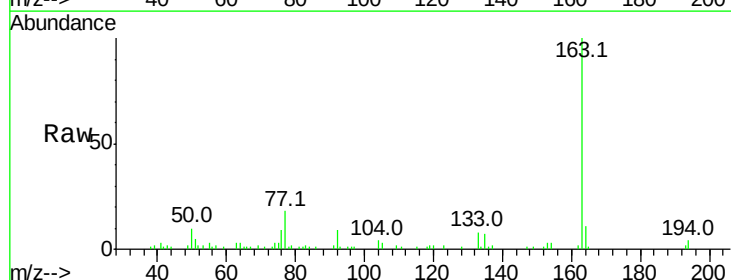
Tgt Ion:163 Resp: 34563

Ion Ratio Lower Upper

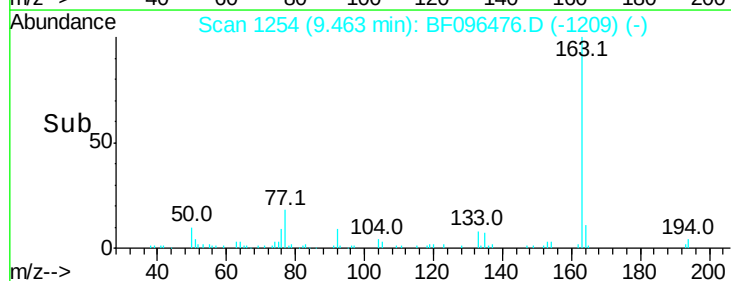
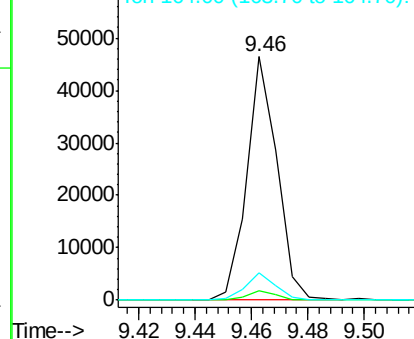
163 100

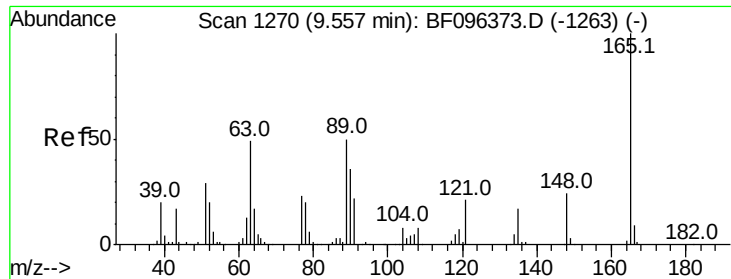
194 3.8 2.6 4.0

164 11.3 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

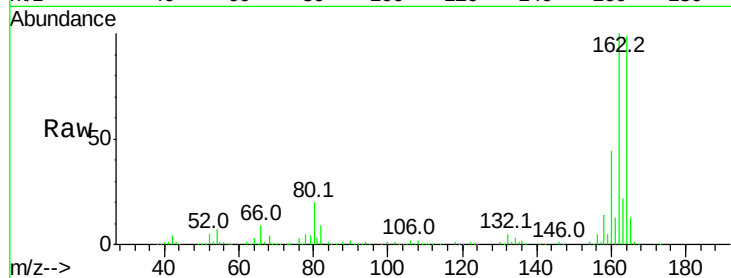




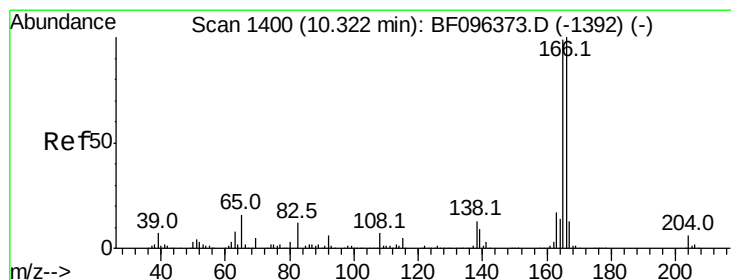
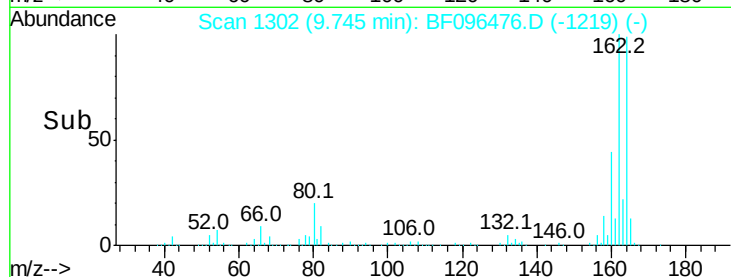
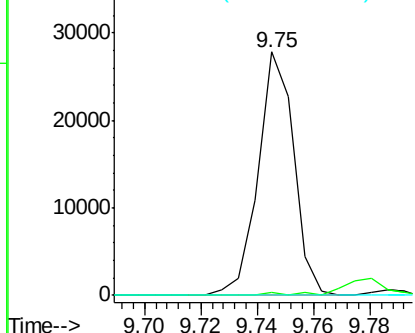
#50
2,6-Dinitrotoluene
Concen: 7.99 ng
RT: 9.75 min Scan# 1302
Delta R.T. 0.19 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.4	34.3	51.5#
89	0.0	37.1	55.7#

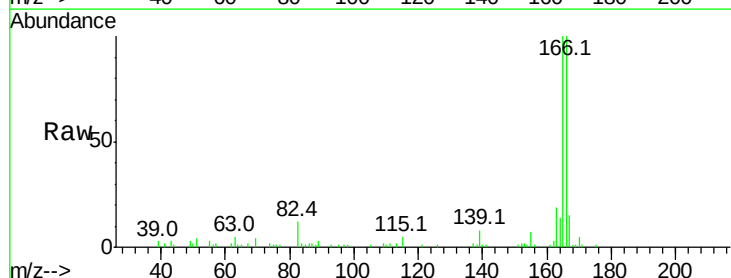


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

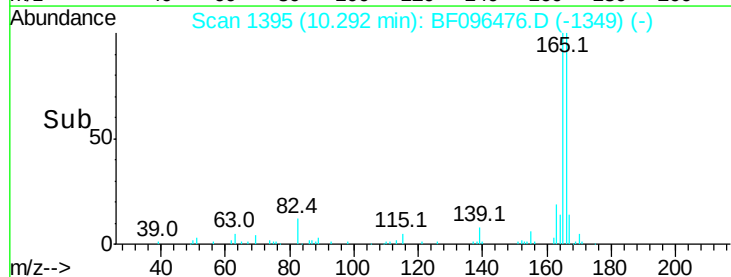
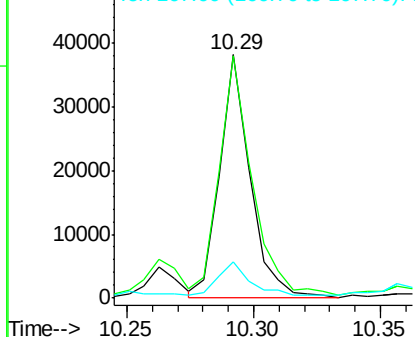


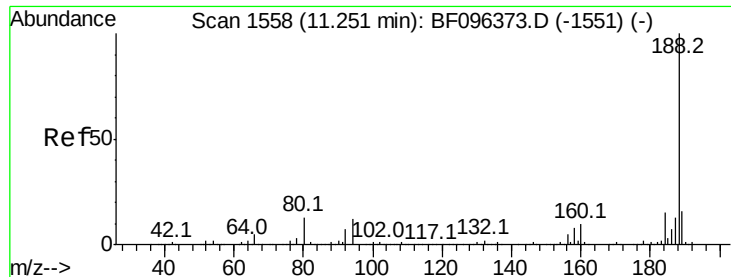
#57
Fluorene
Concen: 3.02 ng
RT: 10.29 min Scan# 1395
Delta R.T. -0.03 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.7	78.8	118.2
167	14.8	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

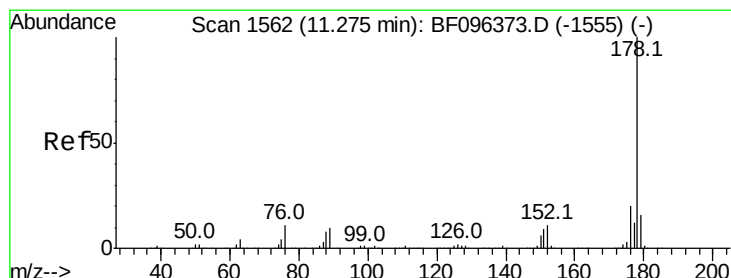
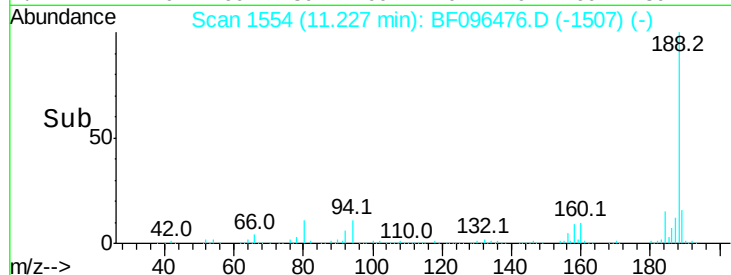
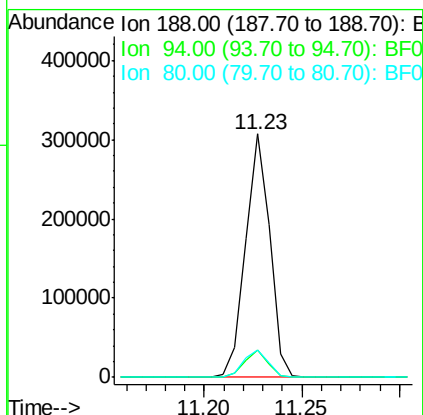
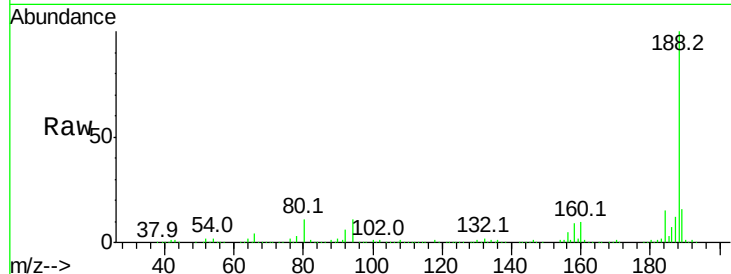




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.02 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

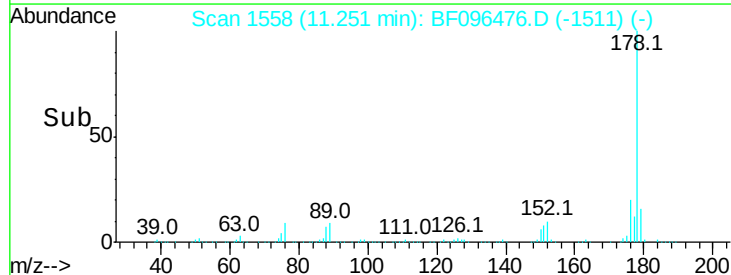
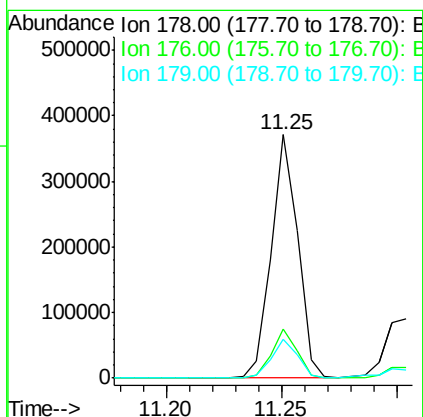
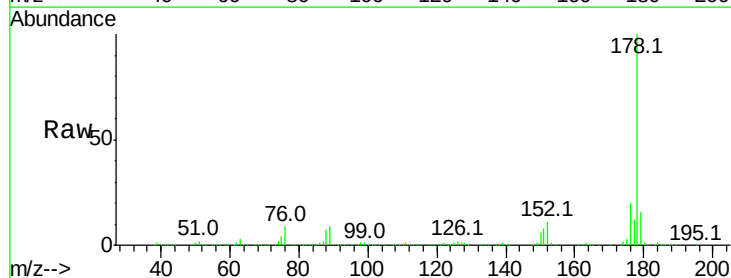
Instrument :
BNA_F
ClientSampleId :

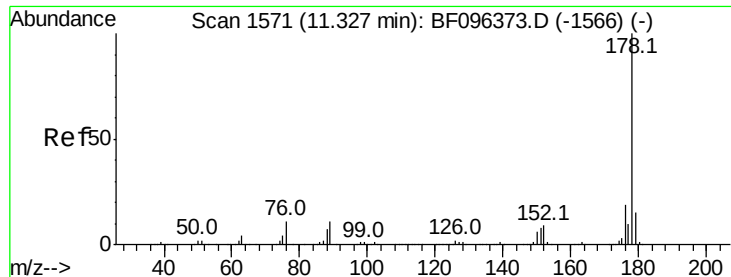
Tot Ion:188 Resp: 265003
Ion Ratio Lower Upper
188 100
94 11.1 9.4 14.2
80 11.4 10.2 15.2



#70
Phenanthrene
Concen: 20.58 ng
RT: 11.25 min Scan# 1558
Delta R.T. -0.02 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Tgt Ion:178 Resp: 294873
Ion Ratio Lower Upper
178 100
176 19.9 16.2 24.4
179 16.1 12.6 19.0





#71

Anthracene

Concen: 5.46 ng

RT: 11.30 min Scan# 1567

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

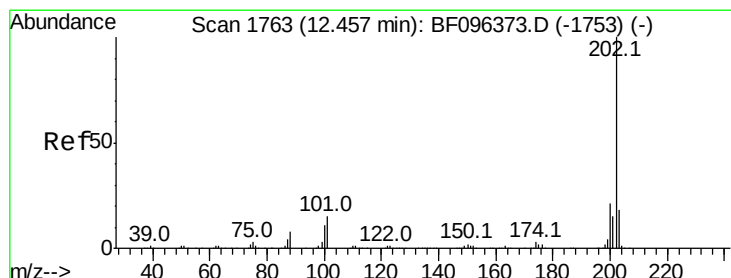
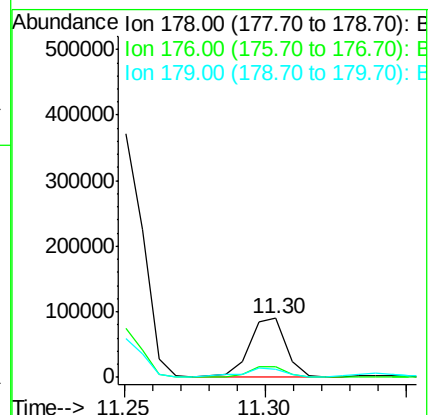
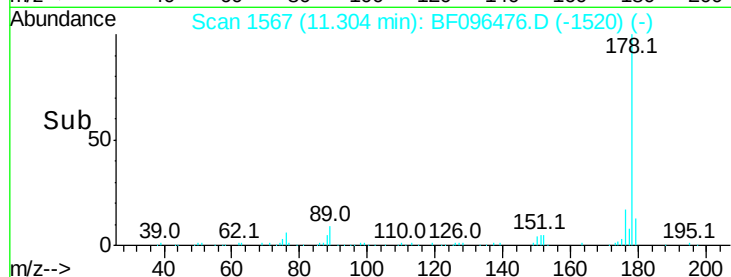
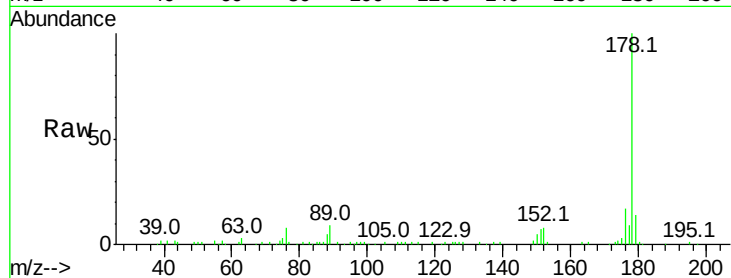
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 79697

Ion	Ratio	Lower	Upper
178	100		
176	17.1	15.8	23.8
179	14.1	12.7	19.1



#74

Fluoranthene

Concen: 24.75 ng

RT: 12.44 min Scan# 1760

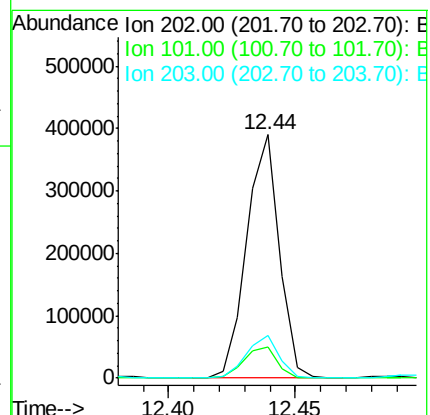
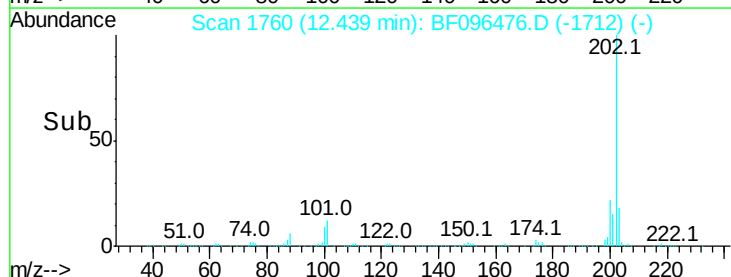
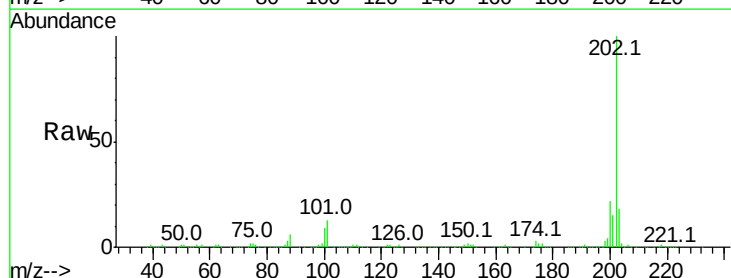
Delta R.T. -0.02 min

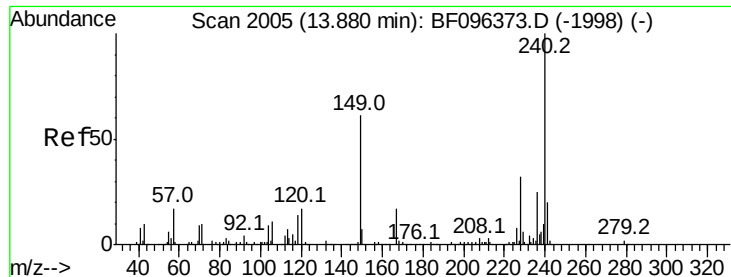
Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Tgt Ion:202 Resp: 347663

Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.86 min Scan# 2002

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampled :

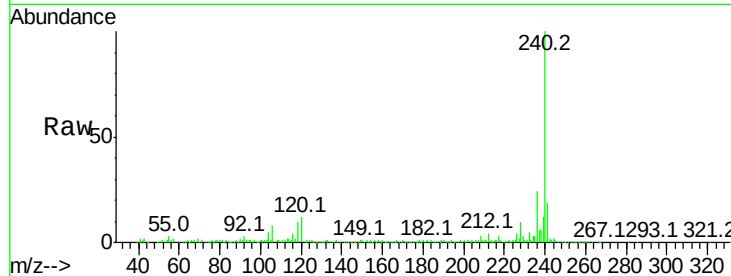
Tot Ion:240 Resp: 205872

Ion Ratio Lower Upper

240 100

120 12.4 5.8 8.8#

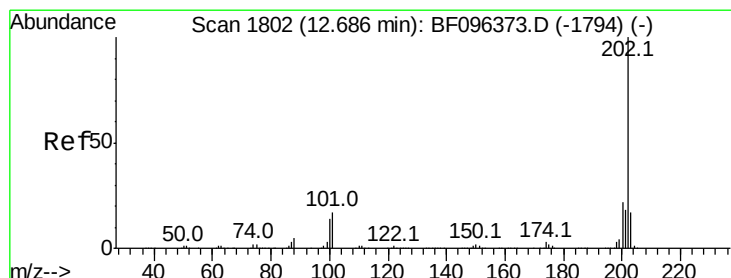
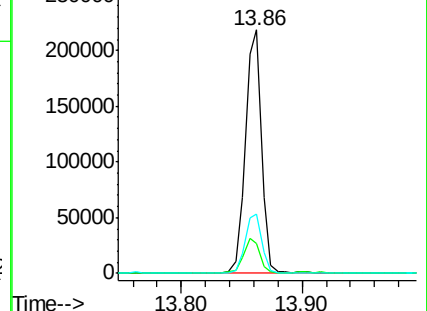
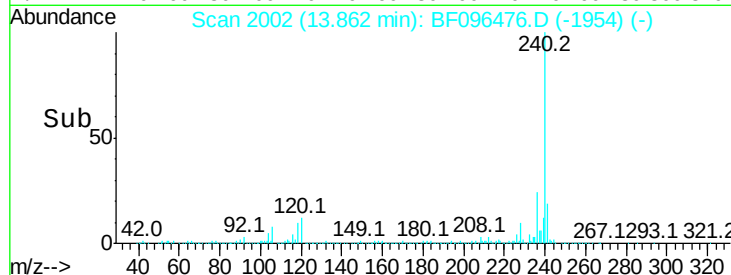
236 24.1 20.5 30.7



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 20.97 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

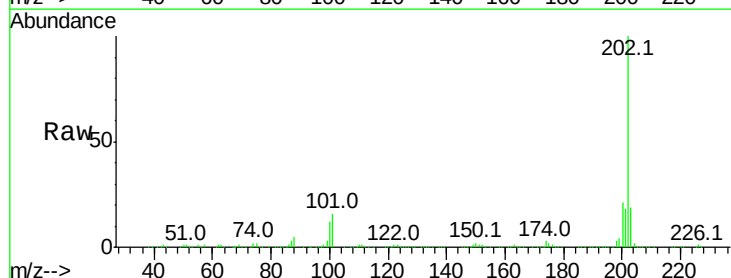
Tgt Ion:202 Resp: 346448

Ion Ratio Lower Upper

202 100

200 21.3 17.6 26.4

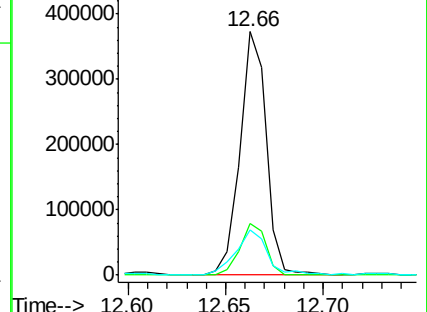
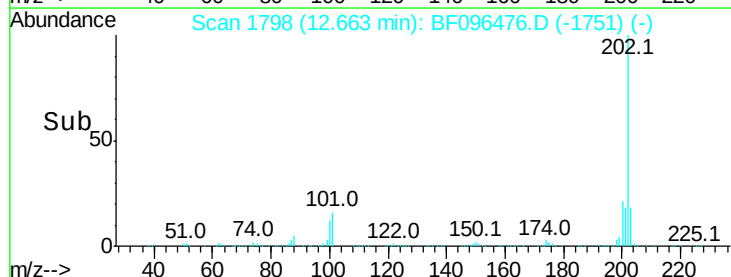
203 18.6 14.4 21.6

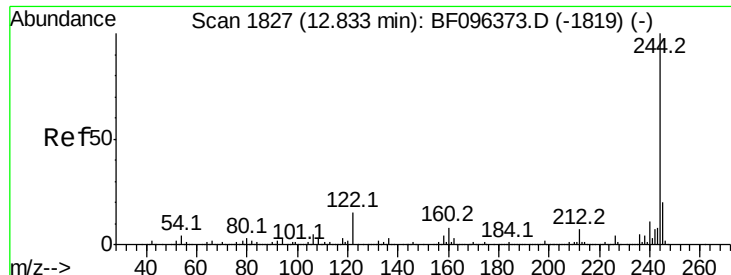


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 14.20 ng

RT: 12.81 min Scan# 1823

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Instrument :

BNA_F

ClientSampleId :

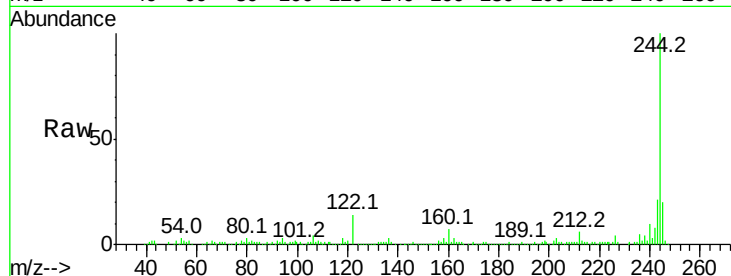
Tot Ion:244 Resp: 136852

Ion Ratio Lower Upper

244 100

212 6.3 6.0 9.0

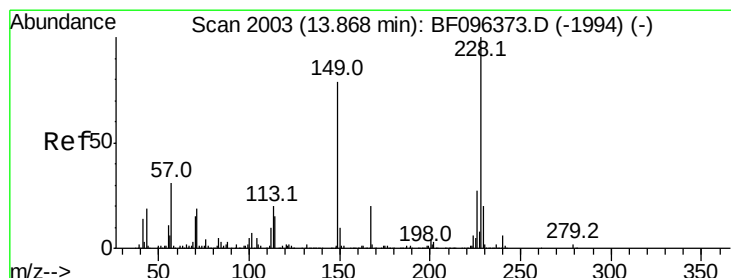
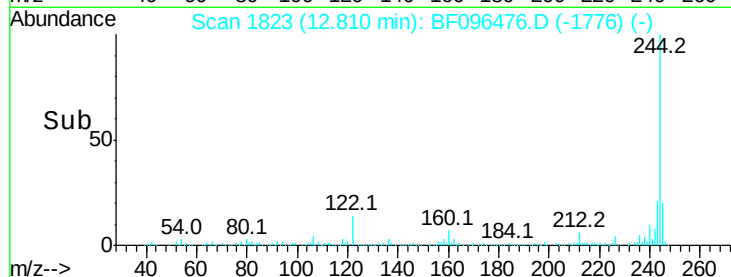
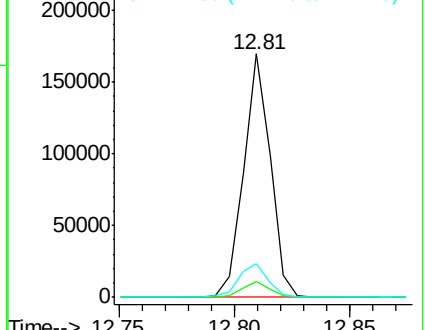
122 13.8 10.3 15.5



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: 11.27 ng

RT: 13.89 min Scan# 2006

Delta R.T. 0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

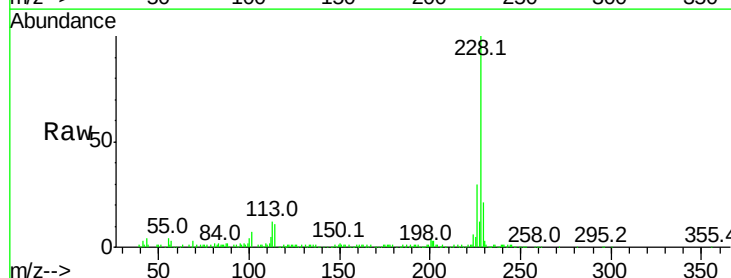
Tgt Ion:228 Resp: 134400

Ion Ratio Lower Upper

228 100

226 30.5 22.6 33.8

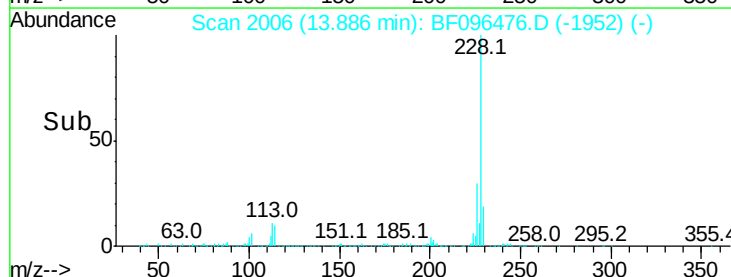
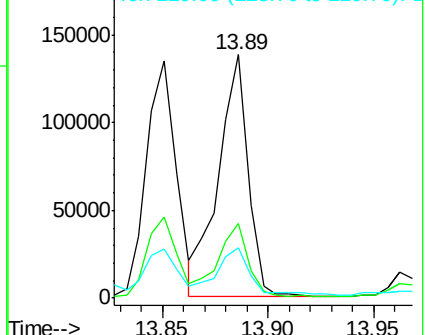
229 20.6 16.3 24.5

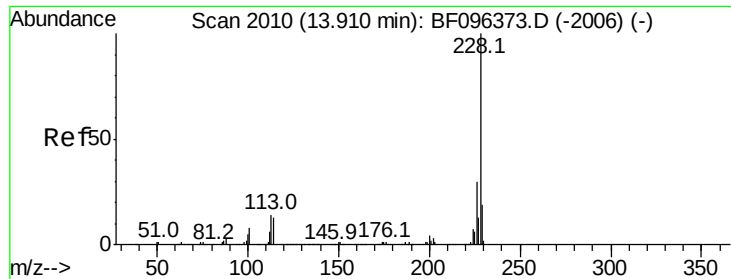


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 10.77 ng

RT: 13.89 min Scan# 2006

Delta R.T. -0.02 min

Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

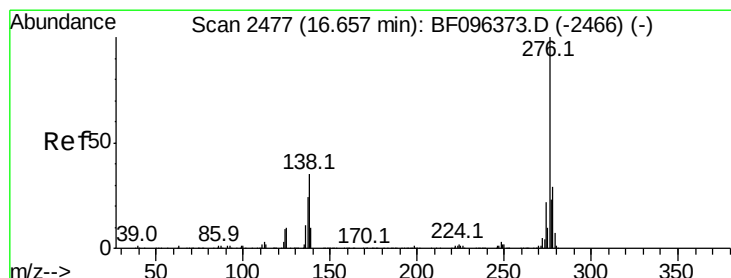
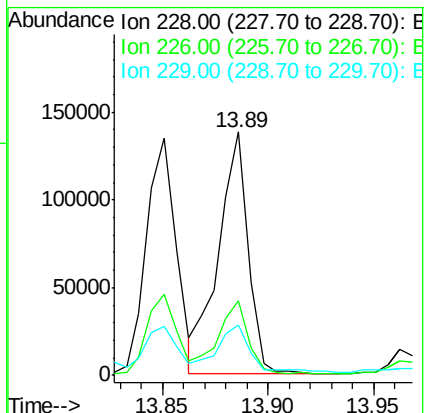
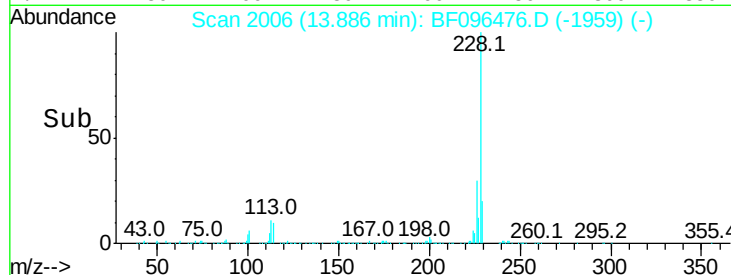
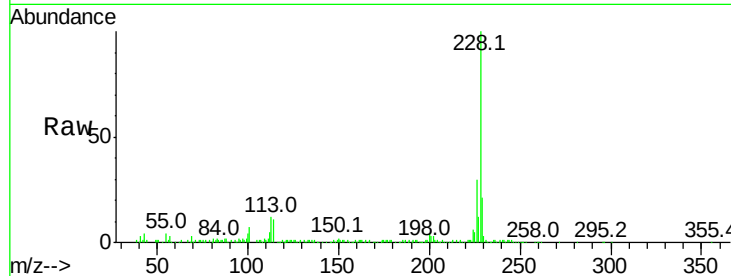
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 134400

Ion	Ratio	Lower	Upper
228	100		
226	30.5	24.9	37.3
229	20.6	15.8	23.6



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.69 ng

RT: 16.63 min Scan# 2472

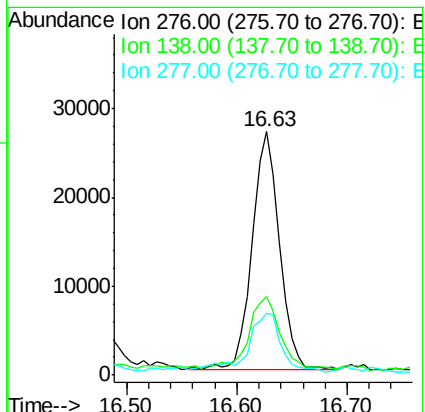
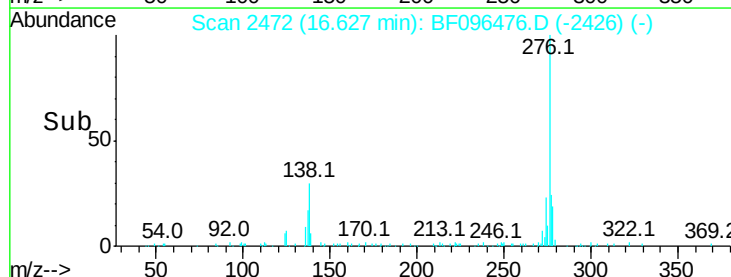
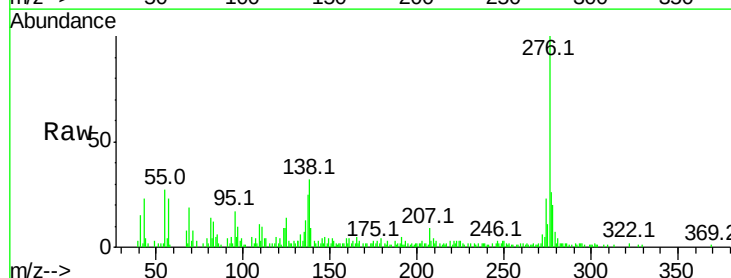
Delta R.T. -0.03 min

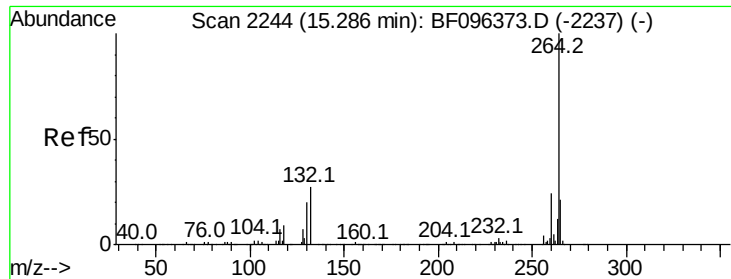
Lab File: BF096476.D

Acq: 5 Jul 2017 11:41

Tgt Ion:276 Resp: 46228

Ion	Ratio	Lower	Upper
276	100		
138	34.9	27.8	41.6
277	29.6	20.2	30.4

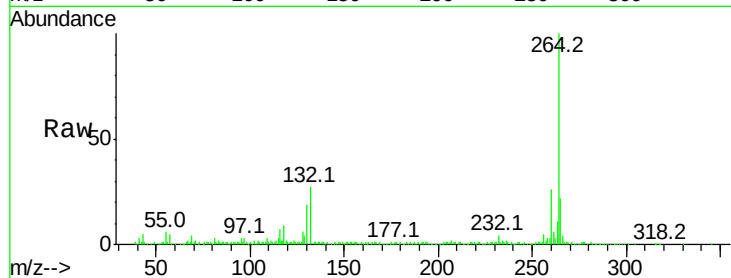




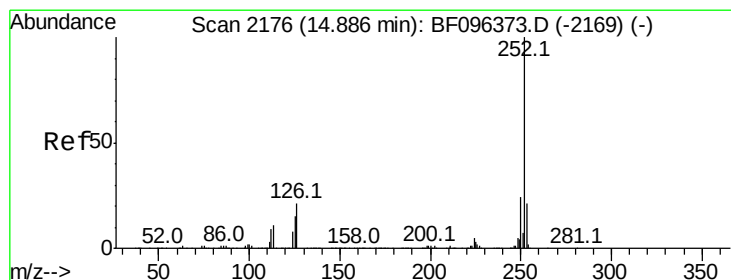
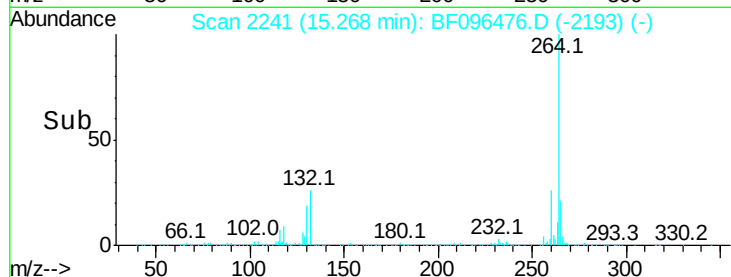
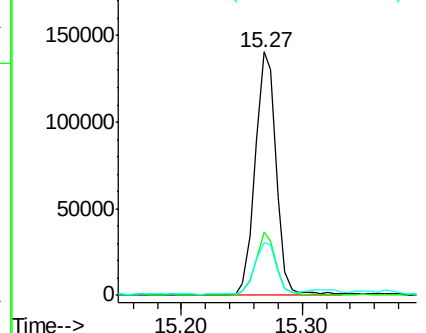
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.27 min Scan# 2241
Delta R.T. -0.02 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 171686
Ion Ratio Lower Upper
264 100
260 25.9 19.5 29.3
265 21.6 17.2 25.8

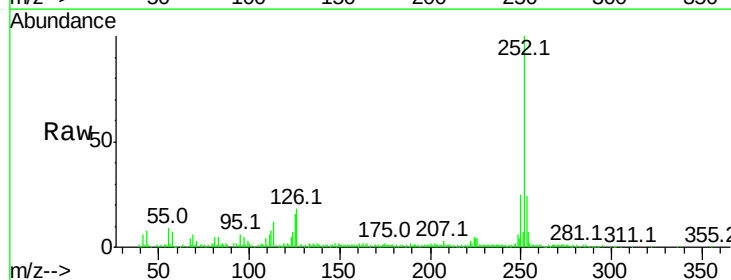


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

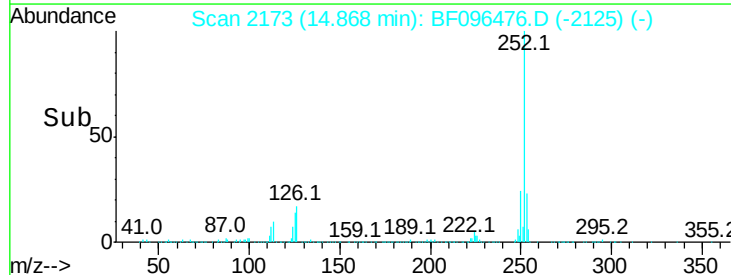
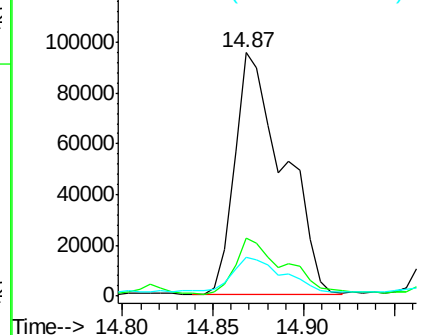


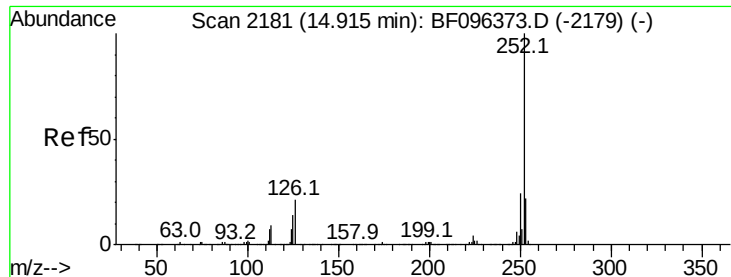
#87
Benzo(b)fluoranthene
Concen: 16.65 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.02 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Tgt Ion:252 Resp: 179103
Ion Ratio Lower Upper
252 100
253 24.0 18.1 27.1
125 16.0 9.8 14.8#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

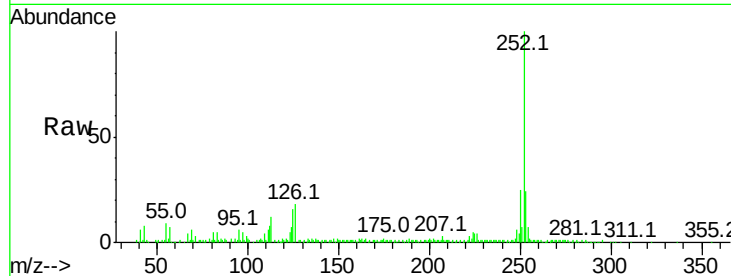




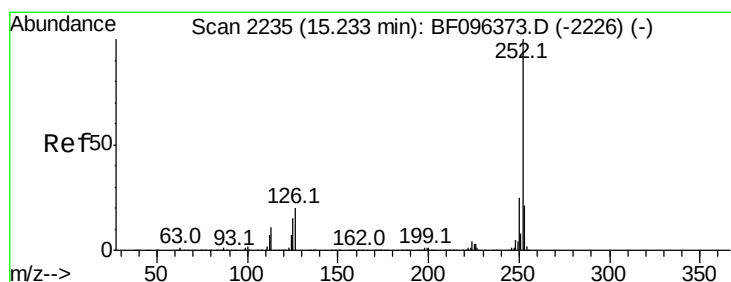
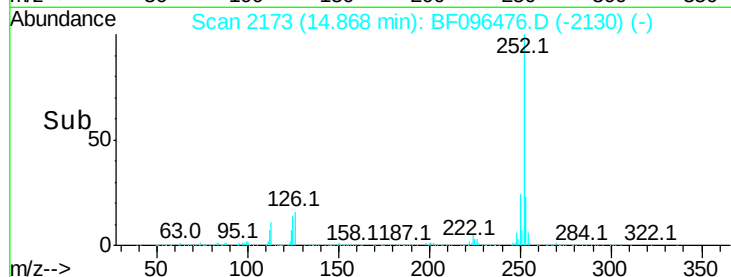
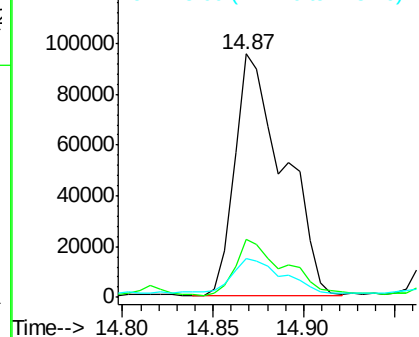
#88
Benzo(k)fluoranthene
Concen: 18.61 ng
RT: 14.87 min Scan# 2173
Delta R.T. -0.05 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 179103
Ion Ratio Lower Upper
252 100
253 24.0 18.4 27.6
125 16.0 13.1 19.7

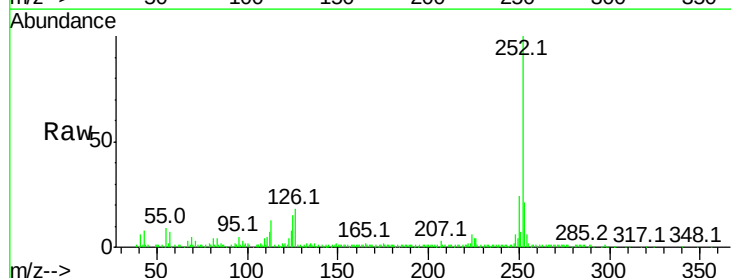


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

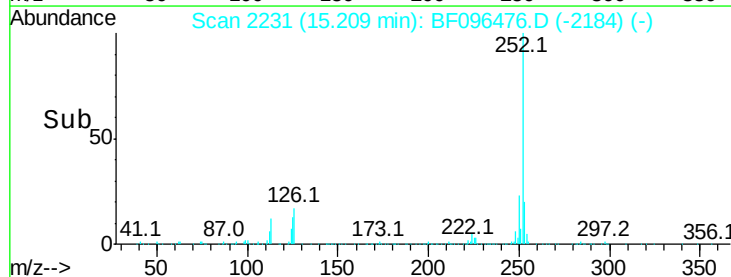
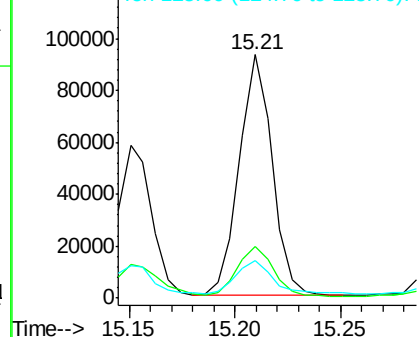


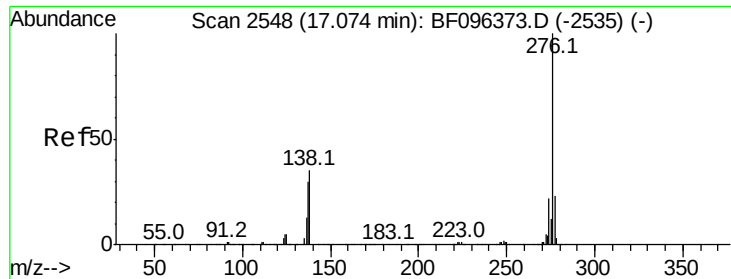
#89
Benzo(a)pyrene
Concen: 10.47 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.02 min
Lab File: BF096476.D
Acq: 5 Jul 2017 11:41

Tgt Ion:252 Resp: 100597
Ion Ratio Lower Upper
252 100
253 21.0 17.5 26.3
125 15.3 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 6.80 ng
 RT: 17.03 min Scan# 2541
 Delta R.T. -0.04 min
 Lab File: BF096476.D
 Acq: 5 Jul 2017 11:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	36.6	25.4	38.0

