

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061917\
 Data File : BF096015.D
 Acq On : 19 Jun 2017 20:01
 Operator : SJ/MA
 Sample : I3696-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 20 01:07:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 17:12:03 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.30	152	80238	20.00	ng	-0.02
21) Naphthalene-d8	9.34	136	325906	20.00	ng	-0.02
38) Acenaphthene-d10	12.16	164	139827	20.00	ng	-0.02
63) Phenanthrene-d10	14.54	188	225561	20.00	ng	-0.02
75) Chrysene-d12	18.27	240	139552	20.00	ng	-0.02
86) Perylene-d12	19.94	264	140775	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.19	112	579696	115.12	ng	-0.02
7) Phenol-d6	6.87	99	715924	118.76	ng	-0.04
23) Nitrobenzene-d5	8.23	82	416034	79.28	ng	-0.02
41) 2,4,6-Tribromophenol	13.45	330	127926	103.40	ng	-0.03
44) 2-Fluorobiphenyl	11.12	172	718461	71.50	ng	-0.02
78) Terphenyl-d14	16.93	244	438652	78.01	ng	-0.02

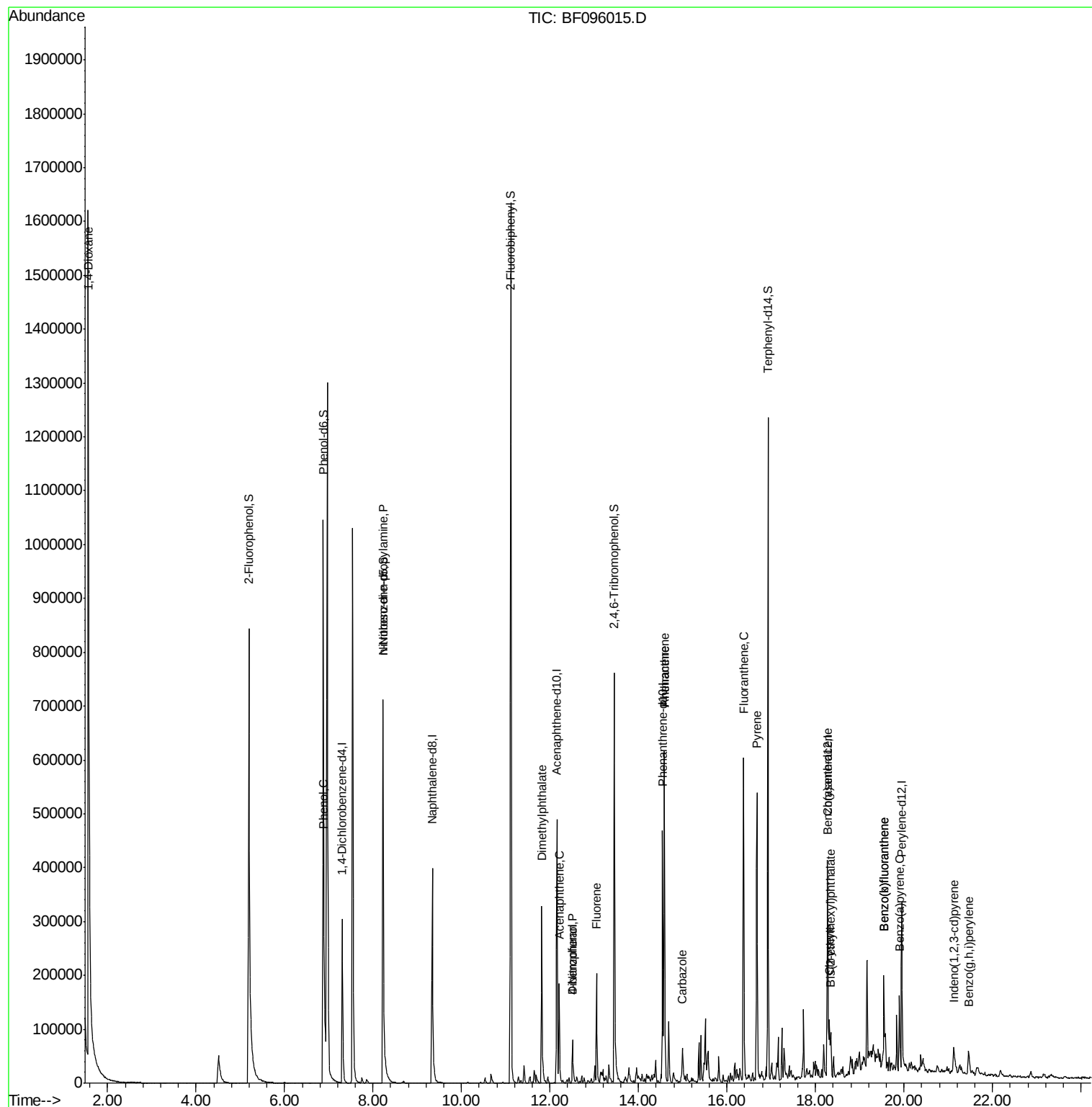
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.56	88	74373	31.05	ng	# 21
10) Phenol	6.89	94	15207	2.43	ng	# 22
19) n-Nitroso-di-n-propylamine	8.23	70	52310	13.69	ng	# 76
49) Dimethylphthalate	11.82	163	217238	20.46	ng	98
51) Acenaphthene	12.21	154	56569	6.36	ng	98
54) Dibenzofuran	12.51	168	59976	4.79	ng	94
55) 4-Nitrophenol	12.51	139	21250	17.34	ng	# 25
57) Fluorene	13.05	166	82305	7.56	ng	99
70) Phenanthrene	14.59	178	362376	27.84	ng	97
71) Anthracene	14.59	178	362376	26.67	ng	98
72) Carbazole	14.99	167	48200	3.64	ng	# 96
74) Fluoranthene	16.37	202	336868	26.15	ng	98
77) Pvrene	16.67	202	259311	24.90	ng	# 94
80) Benzo(a)anthracene	18.26	228	80977	9.98	ng	99
82) Chrysene	18.32	228	69867	8.62	ng	96
83) Bis(2-ethylhexyl)phthalate	18.34	149	23109	3.60	ng	98
85) Indeno(1,2,3-cd)pvrene	21.13	276	31282	4.51	ng	# 92
87) Benzo(b)fluoranthene	19.54	252	93689	10.63	ng	# 96
88) Benzo(k)fluoranthene	19.54	252	93689	11.12	ng	97
89) Benzo(a)pvrene	19.90	252	58346	7.20	ng	97
91) Benzo(g,h,i)perylene	21.46	276	25640	3.66	ng	97

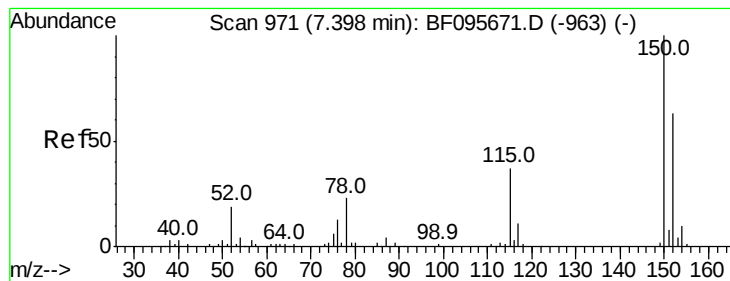
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.30 min Scan# 989

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampled :

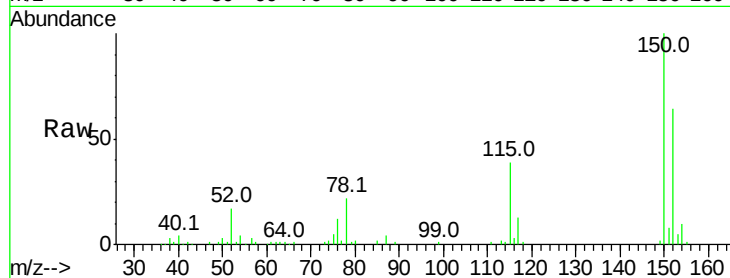
Tot Ion:152 Resp: 80238

Ion Ratio Lower Upper

152 100

150 156.4 126.2 189.2

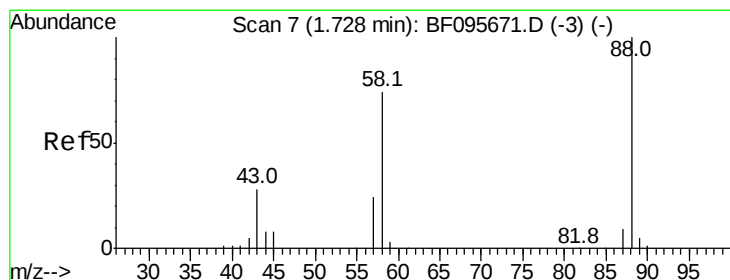
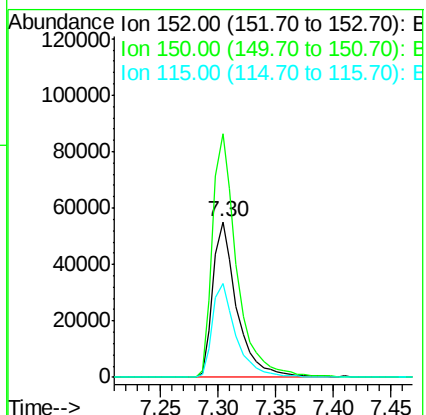
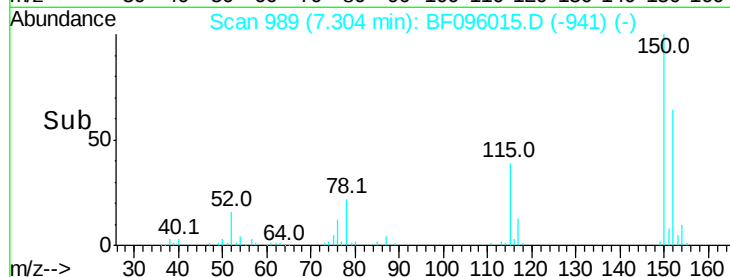
115 60.4 52.2 78.2



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



#2

1,4-Dioxane

Concen: 31.05 ng

RT: 1.56 min Scan# 12

Delta R.T. -0.08 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

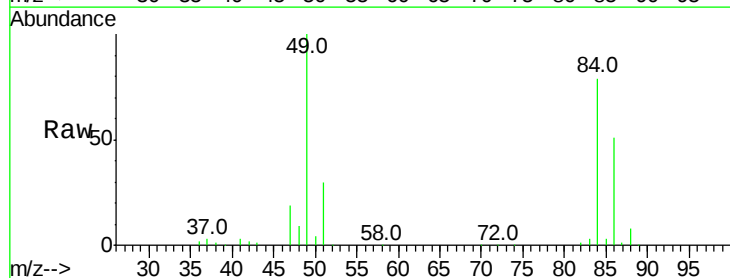
Tgt Ion: 88 Resp: 74373

Ion Ratio Lower Upper

88 100

58 0.0 61.4 92.0#

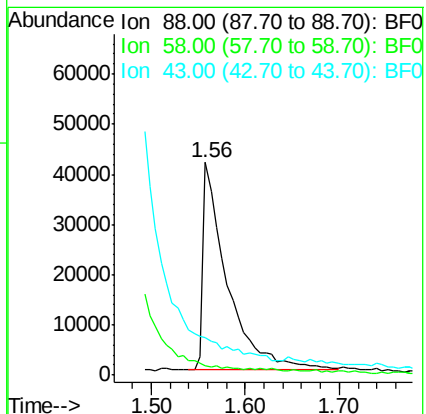
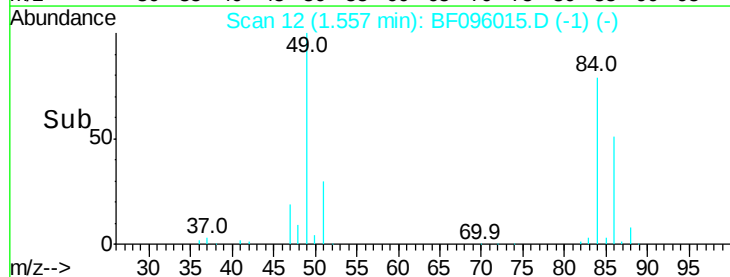
43 0.0 23.4 35.0#

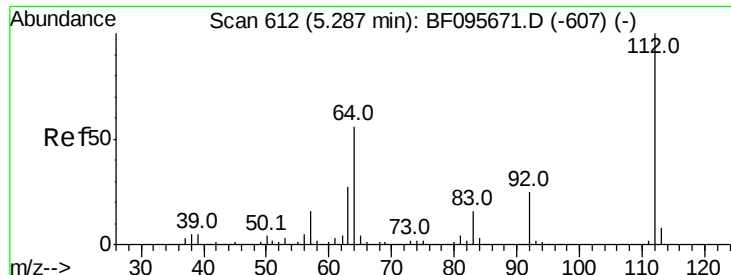


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 115.12 ng

RT: 5.19 min Scan# 630

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :
BNA_F
ClientSampleId :

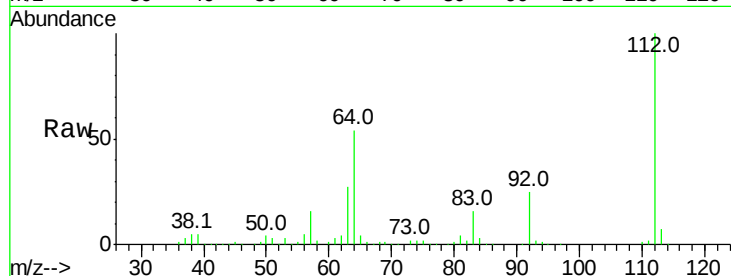
Tot Ion:112 Resp: 579696

Ion Ratio Lower Upper

112 100

64 54.3 46.0 69.0

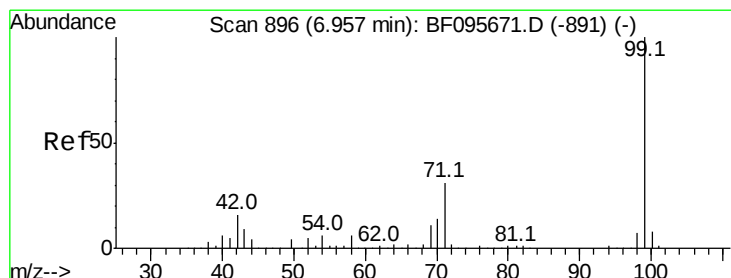
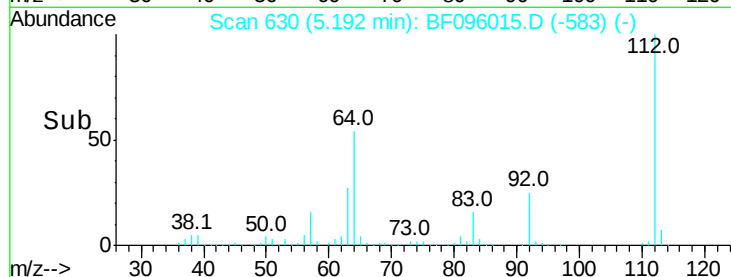
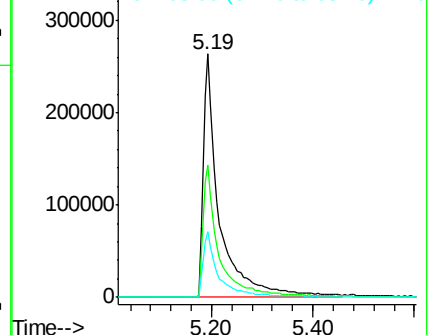
63 26.8 23.4 35.0



Abundance Ion 112.00 (111.70 to 112.70): BFO

Ion 64.00 (63.70 to 64.70): BFO

Ion 63.00 (62.70 to 63.70): BFO



#7

Phenol-d6

Concen: 118.76 ng

RT: 6.87 min Scan# 916

Delta R.T. -0.04 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

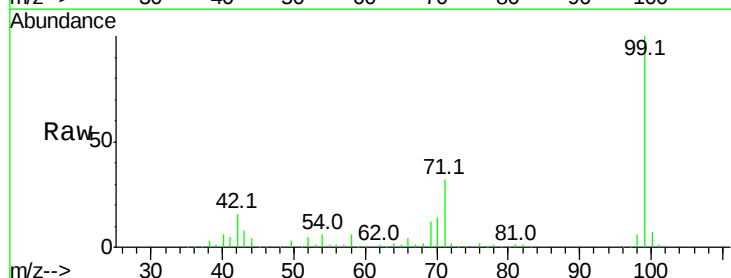
Tgt Ion: 99 Resp: 715924

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

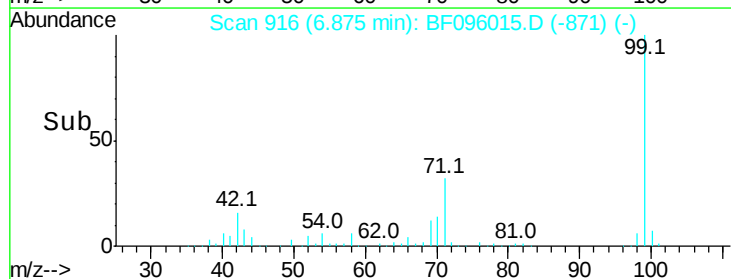
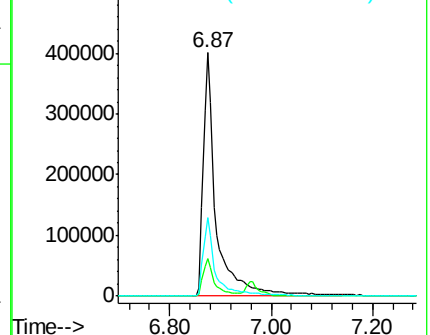
71 32.2 24.5 36.7

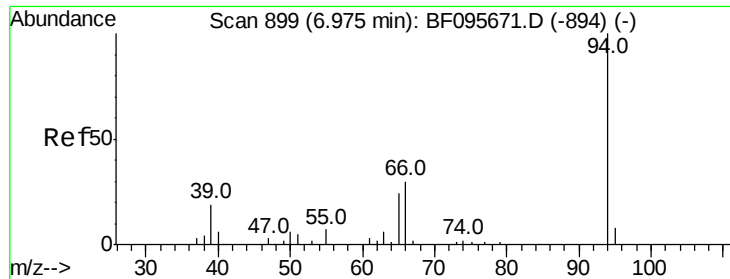


Abundance Ion 99.00 (98.70 to 99.70): BFO

Ion 42.00 (41.70 to 42.70): BFO

Ion 71.00 (70.70 to 71.70): BFO





#10

Phenol

Concen: 2.43 ng

RT: 6.89 min Scan# 919

Delta R.T. -0.04 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampleId :

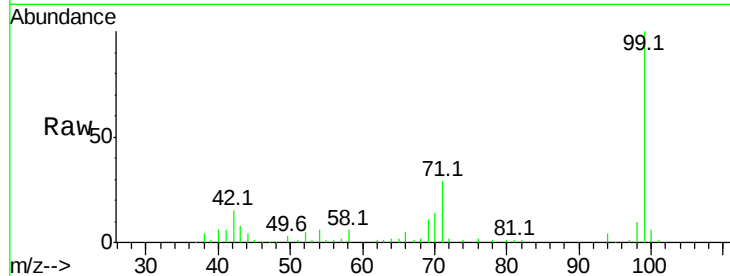
Tot Ion: 94 Resp: 15207

Ion Ratio Lower Upper

94 100

65 38.0 9.9 49.9

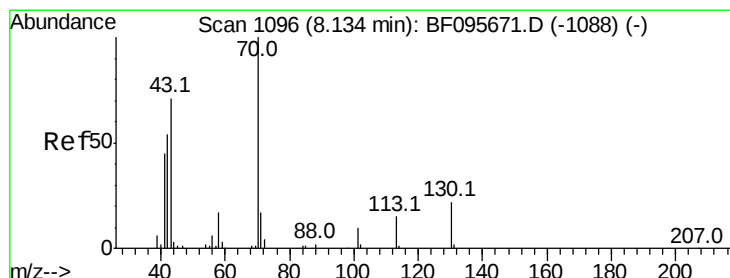
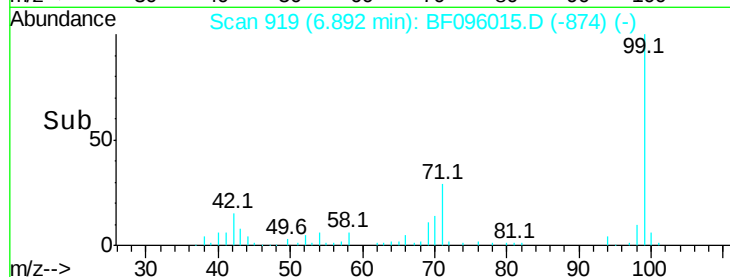
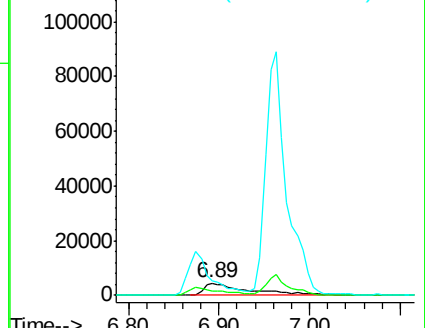
66 120.9 23.1 63.1#



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



#19

n-Nitroso-di-n-propylamine

Concen: 13.69 ng

RT: 8.23 min Scan# 1146

Delta R.T. 0.16 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Tgt Ion: 70 Resp: 52310

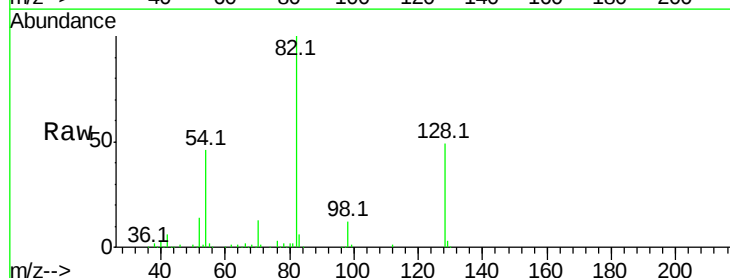
Ion Ratio Lower Upper

70 100

42 44.2 47.2 70.8#

101 0.0 7.2 10.8#

130 2.5 15.9 23.9#

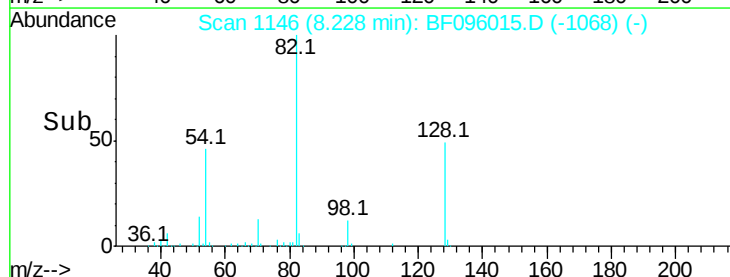
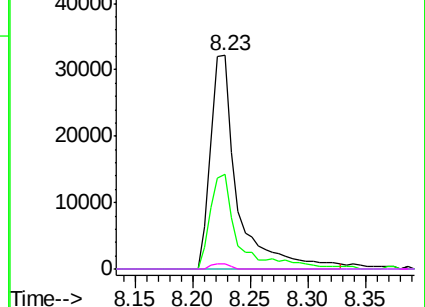


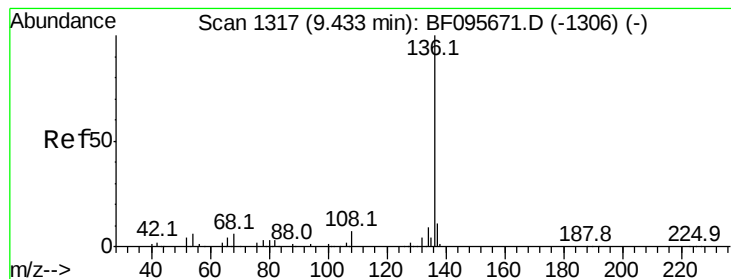
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 9.34 min Scan# 1335

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 325906

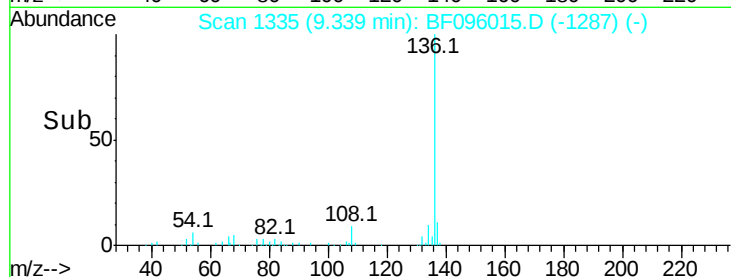
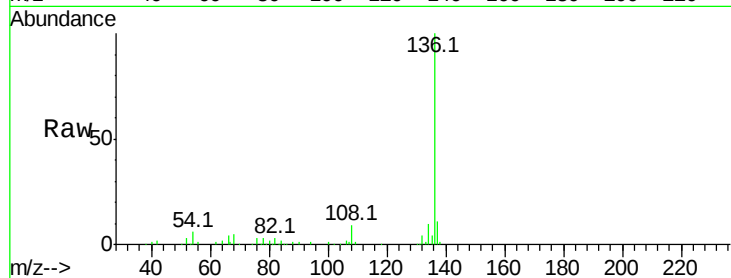
Ion Ratio Lower Upper

136 100

137 11.0 8.5 12.7

54 6.2 4.9 7.3

68 5.2 4.1 6.1

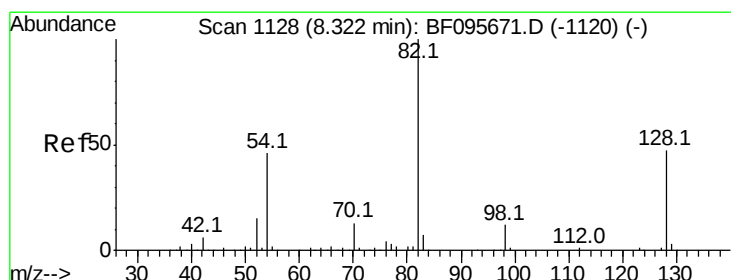
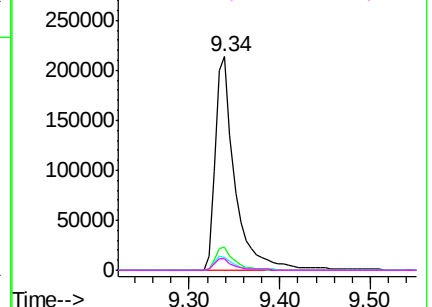


Abundance Ion 136.00 (135.70 to 136.70): E

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: 79.28 ng

RT: 8.23 min Scan# 1146

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

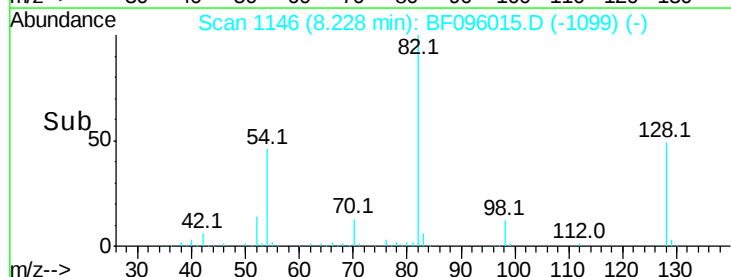
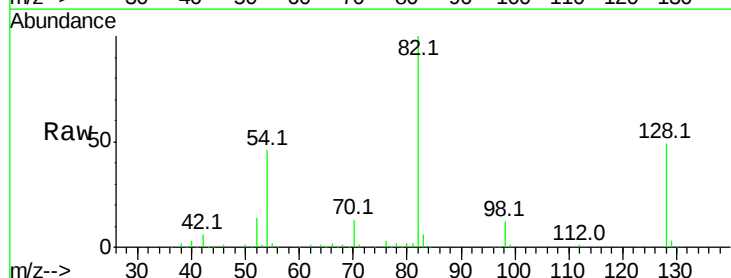
Tgt Ion: 82 Resp: 416034

Ion Ratio Lower Upper

82 100

128 48.5 34.0 51.0

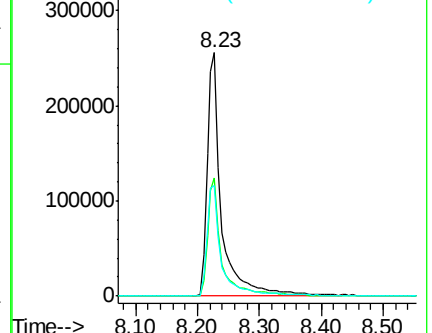
54 45.6 42.2 63.2

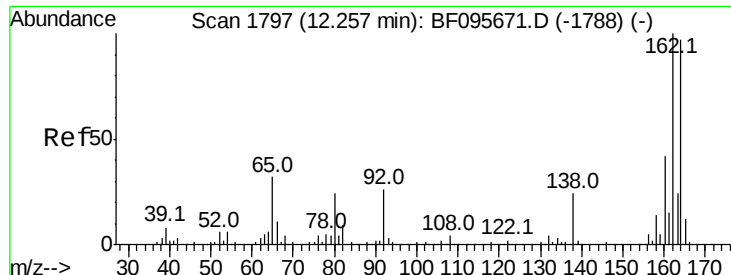


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.16 min Scan# 1814

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampleId :

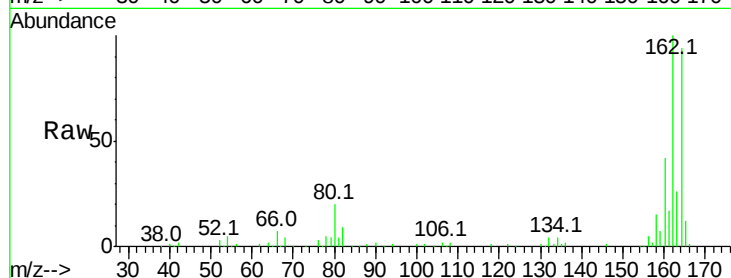
Tot Ion:164 Resp: 139827

Ion Ratio Lower Upper

164 100

162 106.8 82.6 123.8

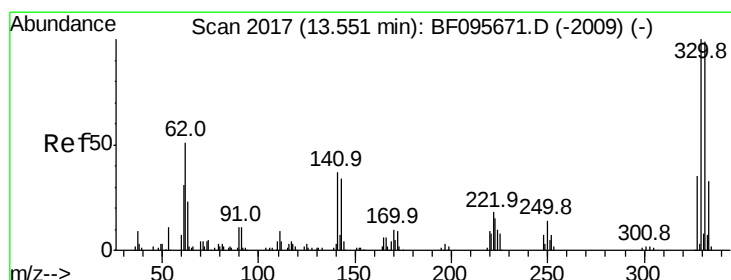
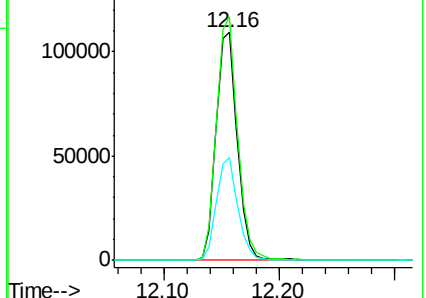
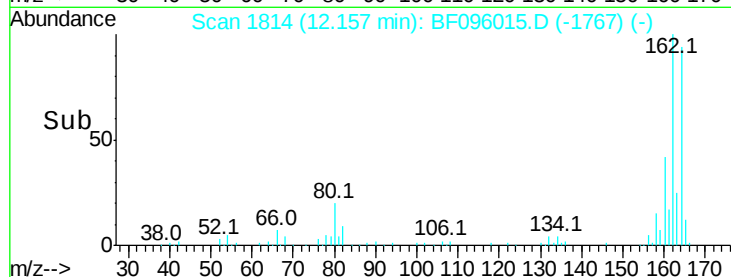
160 45.0 36.2 54.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 103.40 ng

RT: 13.45 min Scan# 2034

Delta R.T. -0.03 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

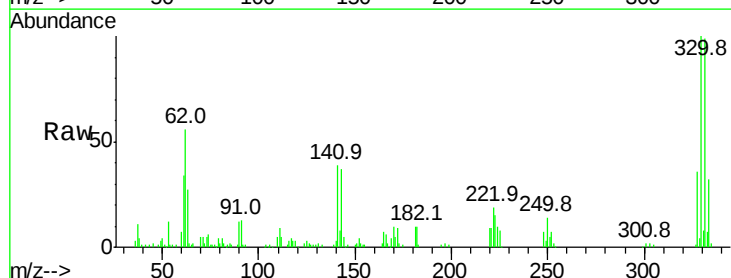
Tgt Ion:330 Resp: 127926

Ion Ratio Lower Upper

330 100

332 98.2 76.6 115.0

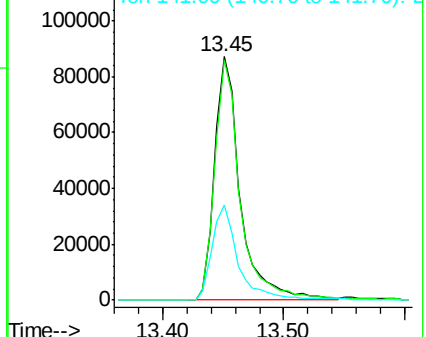
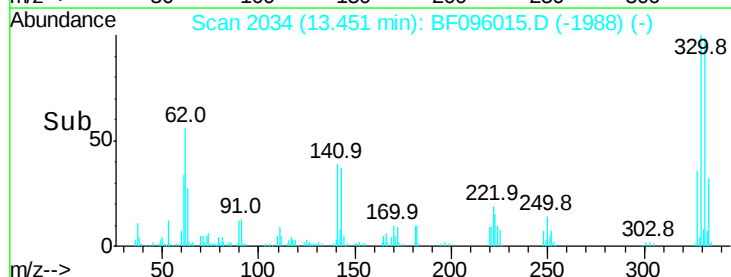
141 39.8 31.4 47.2

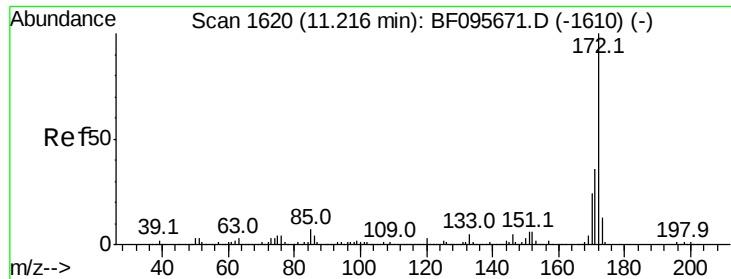


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

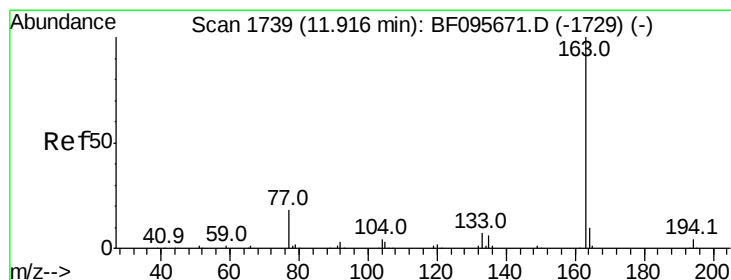
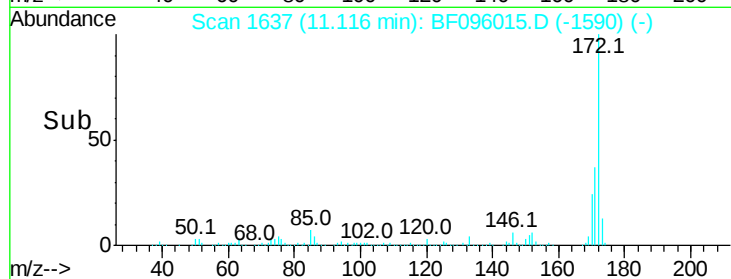
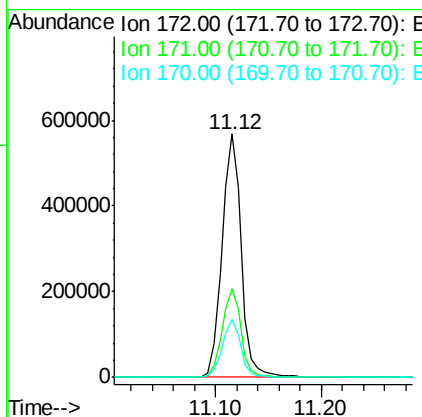
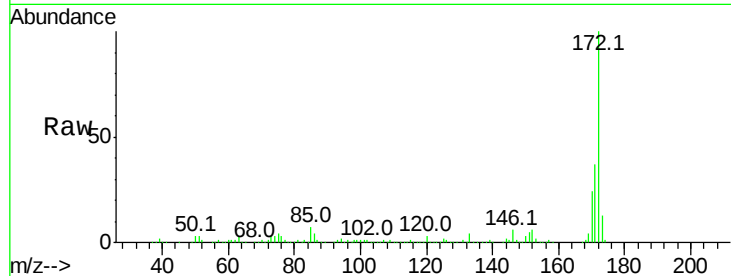




#44
2-Fluorobiphenyl
Concen: 71.50 ng
RT: 11.12 min Scan# 1637
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

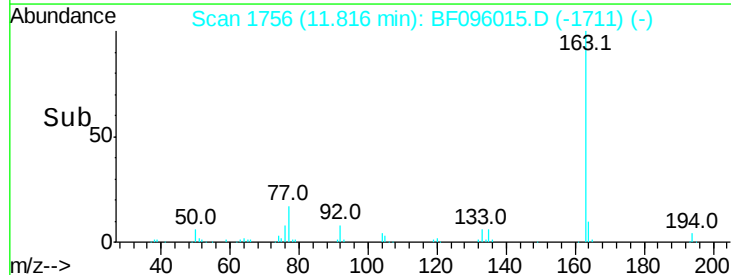
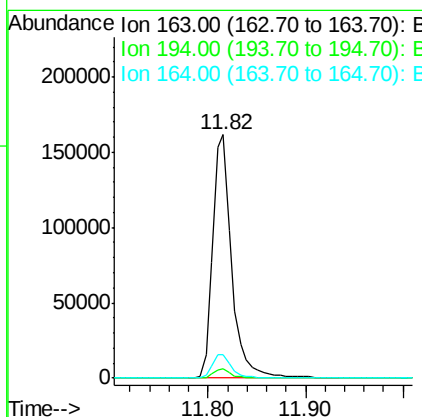
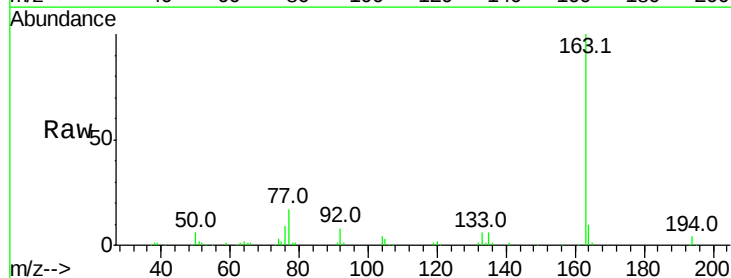
Instrument :
BNA_F
ClientSampleId :

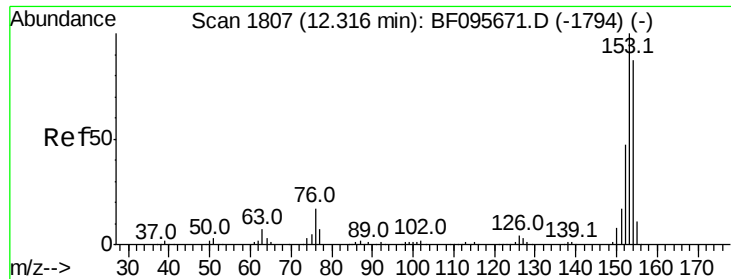
Tot Ion:172 Resp: 718461
Ion Ratio Lower Upper
172 100
171 36.5 29.6 44.4
170 23.8 19.8 29.8



#49
Dimethylphthalate
Concen: 20.46 ng
RT: 11.82 min Scan# 1756
Delta R.T. -0.04 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Tgt Ion:163 Resp: 217238
Ion Ratio Lower Upper
163 100
194 3.7 2.6 4.0
164 9.6 8.4 12.6





#51

Acenaphthene

Concen: 6.36 ng

RT: 12.21 min Scan# 1823

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampleId :

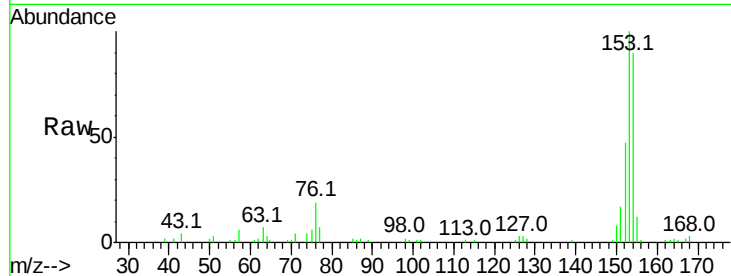
Tot Ion:154 Resp: 56569

Ion Ratio Lower Upper

154 100

153 110.7 90.5 135.7

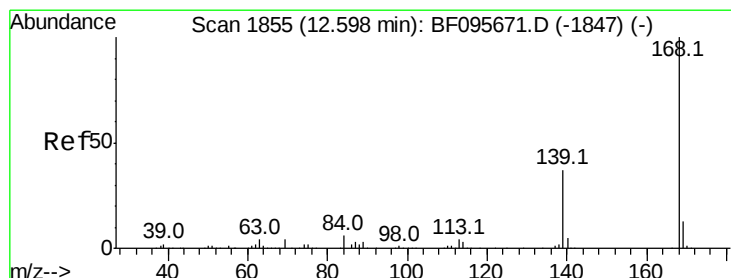
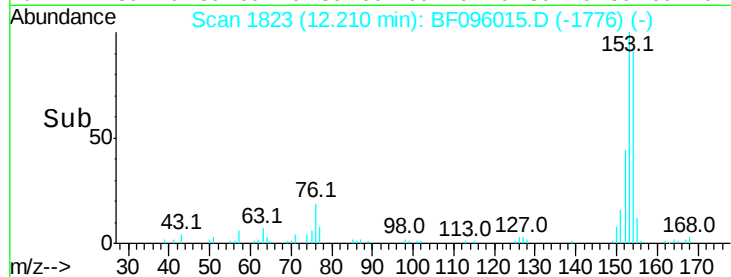
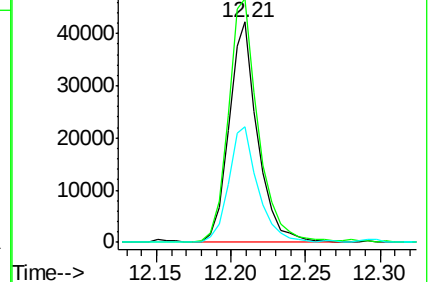
152 52.4 43.6 65.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.79 ng

RT: 12.51 min Scan# 1874

Delta R.T. -0.01 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

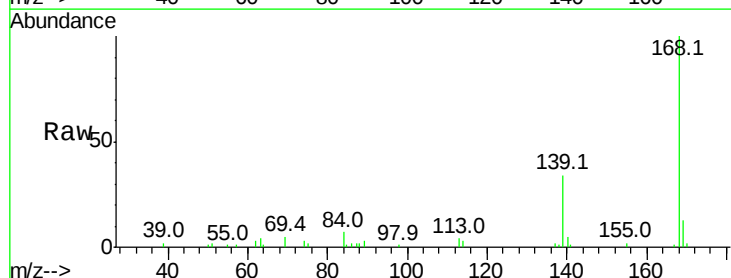
Tgt Ion:168 Resp: 59976

Ion Ratio Lower Upper

168 100

139 33.8 30.6 45.8

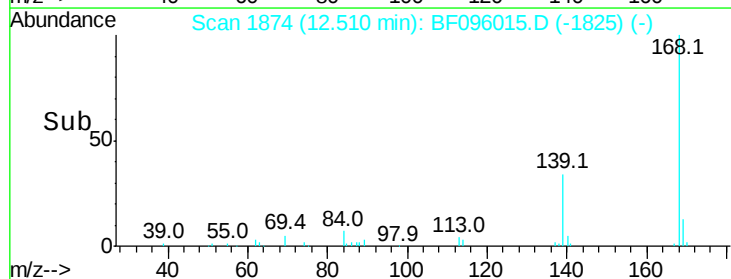
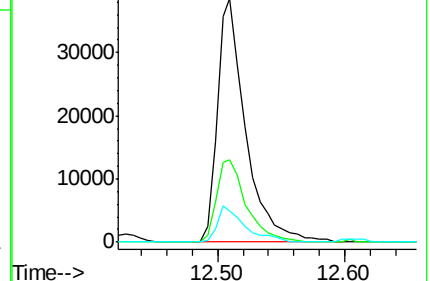
169 13.1 10.8 16.2

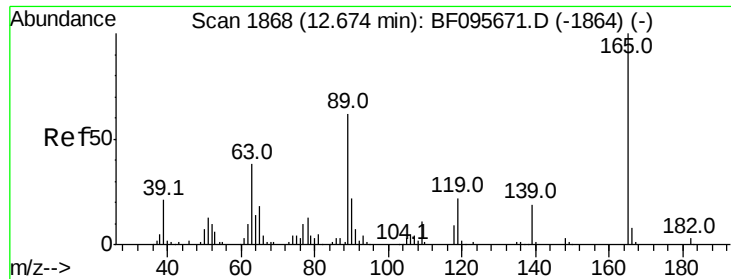


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 17.34 ng

RT: 12.51 min Scan# 1874

Delta R.T. -0.14 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampleId :

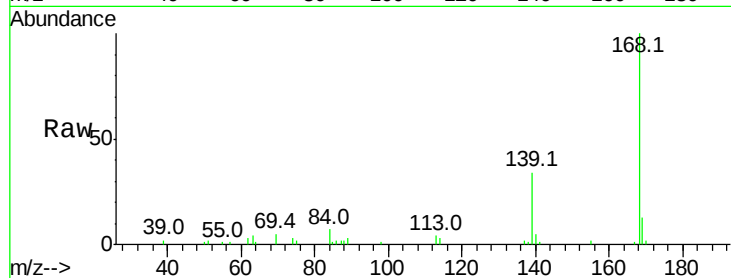
Tot Ion:139 Resp: 21250

Ion Ratio Lower Upper

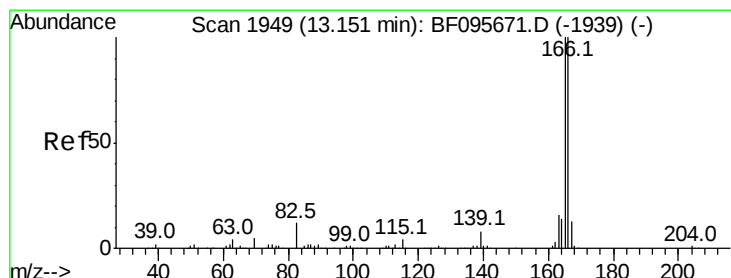
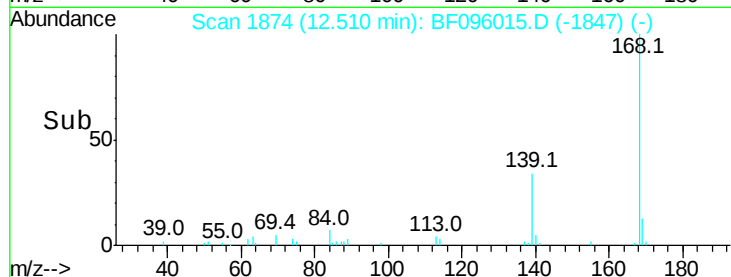
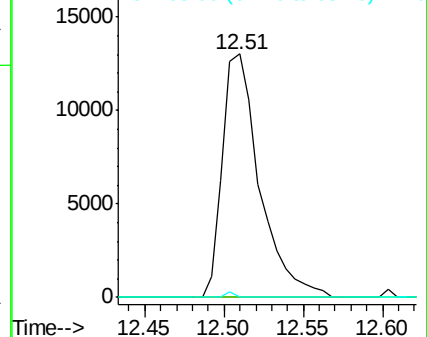
139 100

109 0.0 34.1 74.1#

65 0.0 31.4 71.4#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BFO



#57

Fluorene

Concen: 7.56 ng

RT: 13.05 min Scan# 1966

Delta R.T. -0.02 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

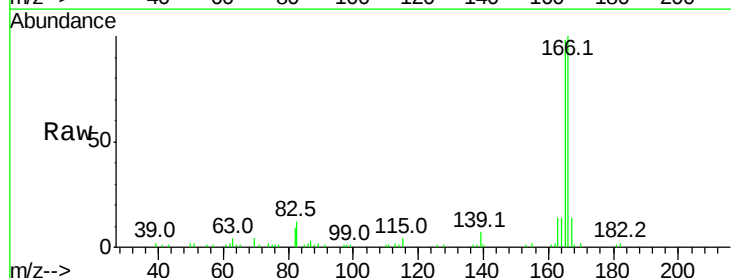
Tgt Ion:166 Resp: 82305

Ion Ratio Lower Upper

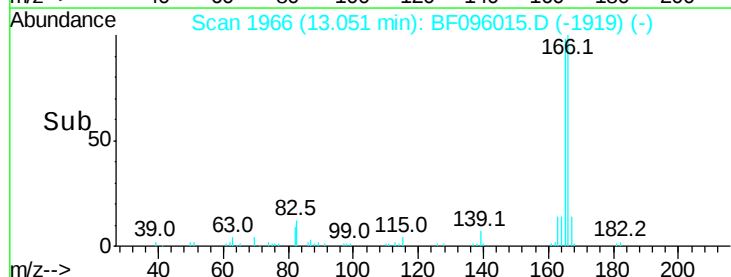
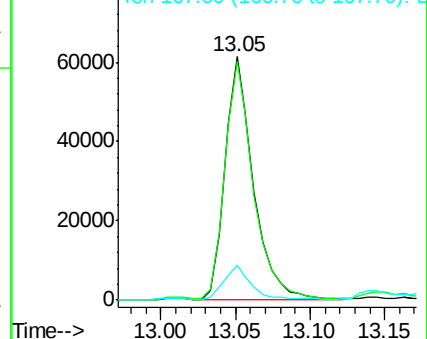
166 100

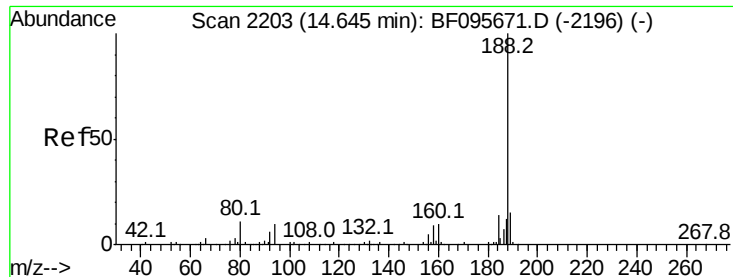
165 98.2 78.8 118.2

167 14.2 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

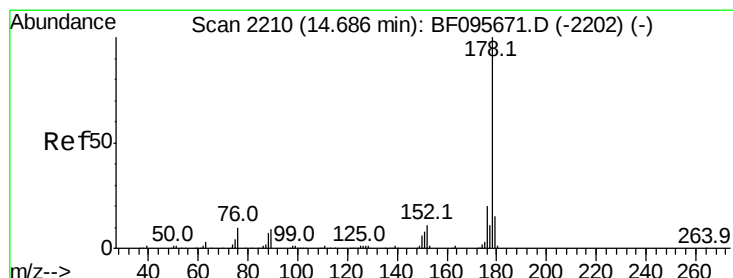
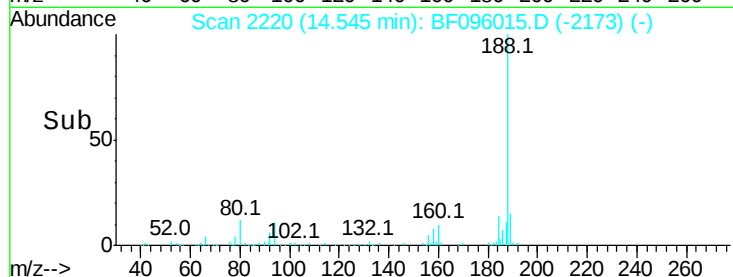
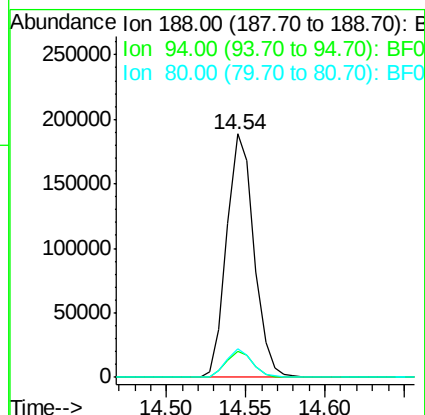
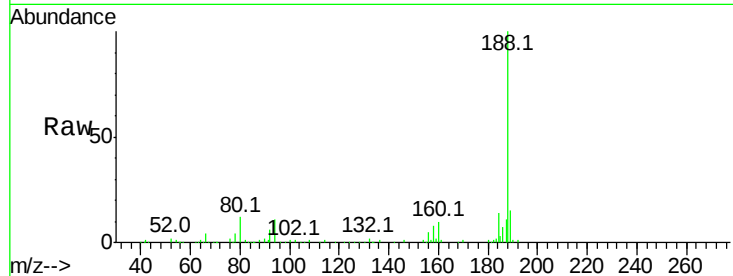




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 14.54 min Scan# 2220
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

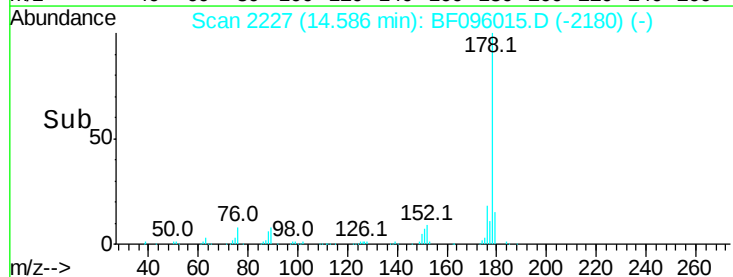
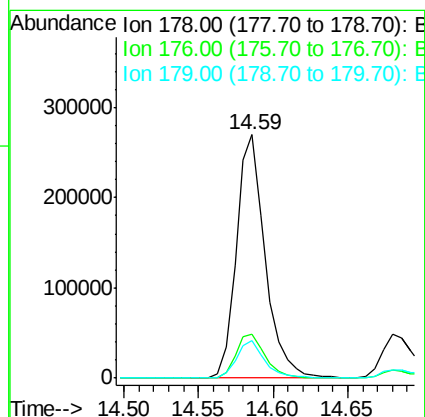
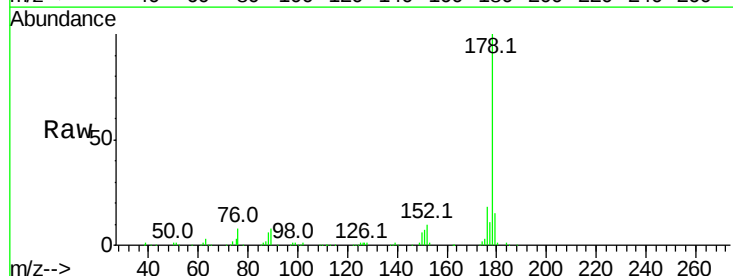
Instrument :
BNA_F
ClientSampleId :

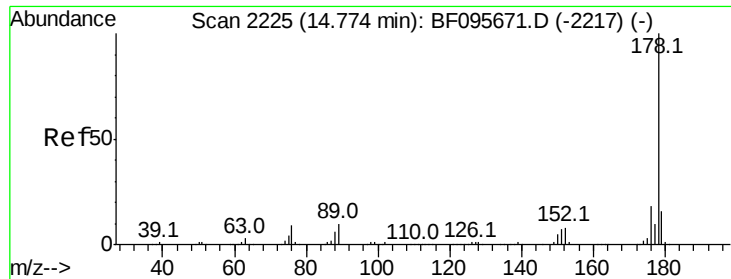
Tot Ion:188 Resp: 225561
Ion Ratio Lower Upper
188 100
94 11.0 9.4 14.2
80 11.7 10.2 15.2



#70
Phenanthrene
Concen: 27.84 ng
RT: 14.59 min Scan# 2227
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Tgt Ion:178 Resp: 362376
Ion Ratio Lower Upper
178 100
176 18.3 16.2 24.4
179 15.4 12.6 19.0

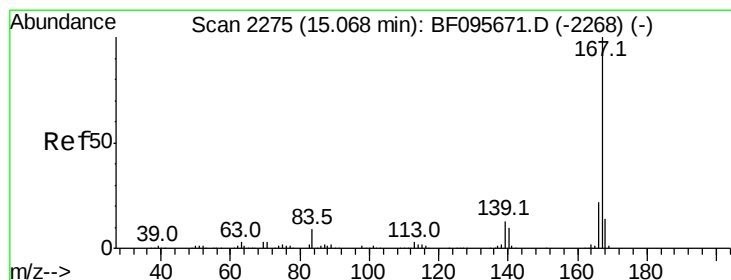
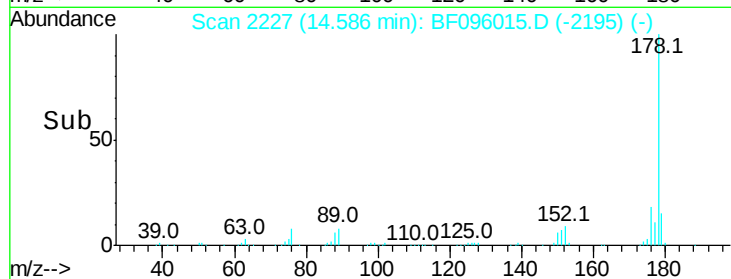
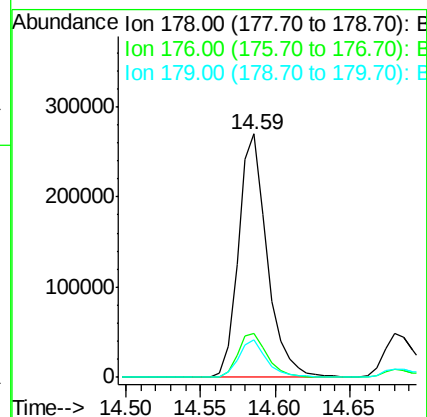
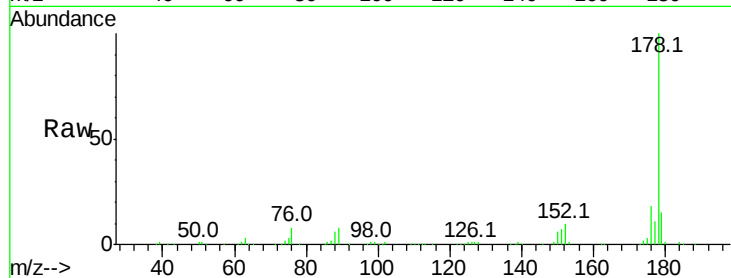




#71
 Anthracene
 Concen: 26.67 ng
 RT: 14.59 min Scan# 2227
 Delta R.T. -0.11 min
 Lab File: BF096015.D
 Acq: 19 Jun 2017 20:01

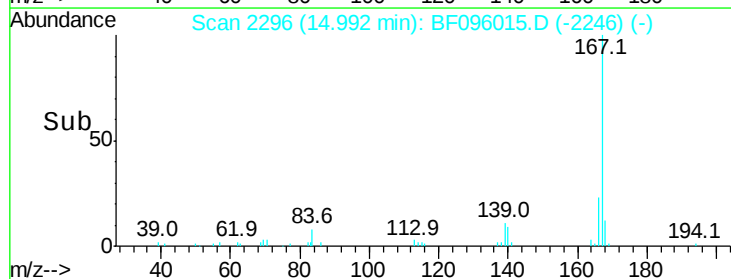
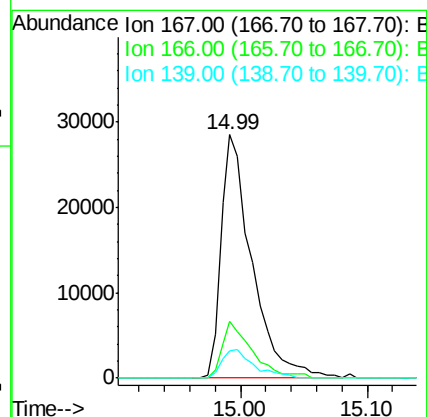
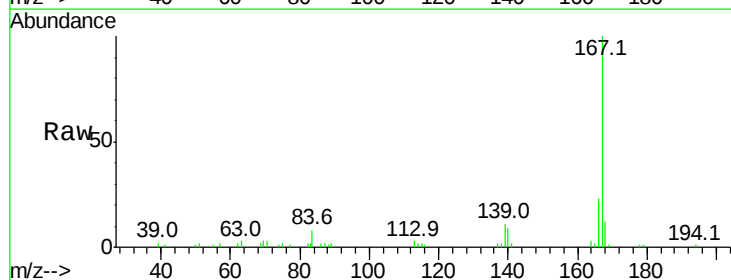
Instrument :
 BNA_F
 ClientSampleId :

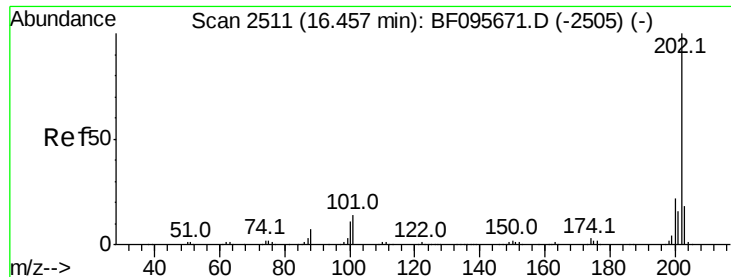
Tot Ion:178 Resp: 362376
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.8 23.8
 179 15.4 12.7 19.1



#72
 Carbazole
 Concen: 3.64 ng
 RT: 14.99 min Scan# 2296
 Delta R.T. -0.01 min
 Lab File: BF096015.D
 Acq: 19 Jun 2017 20:01

Tgt Ion:167 Resp: 48200
 Ion Ratio Lower Upper
 167 100
 166 23.4 18.1 27.1
 139 11.4 11.7 17.5#

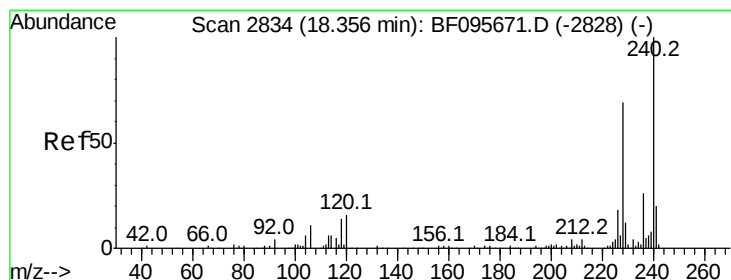
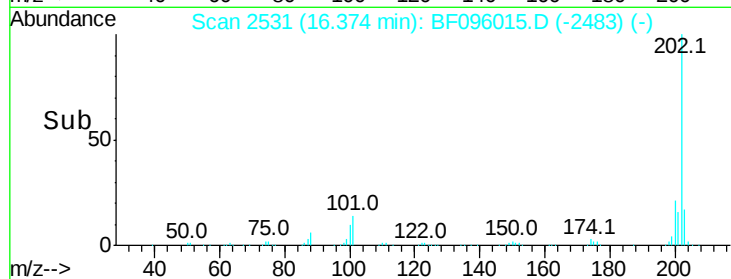
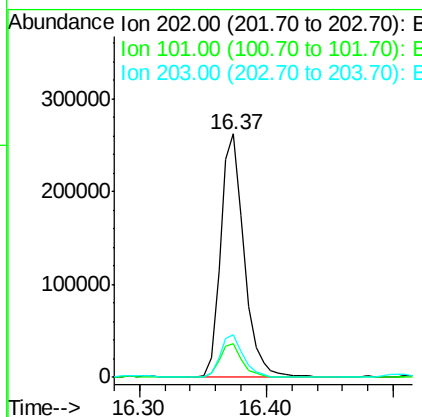
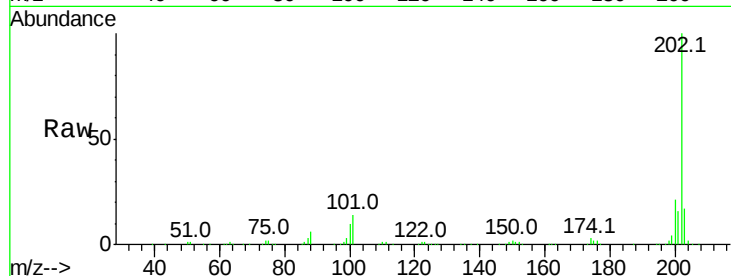




#74
 Fluoranthene
 Concen: 26.15 ng
 RT: 16.37 min Scan# 2531
 Delta R.T. -0.02 min
 Lab File: BF096015.D
 Acq: 19 Jun 2017 20:01

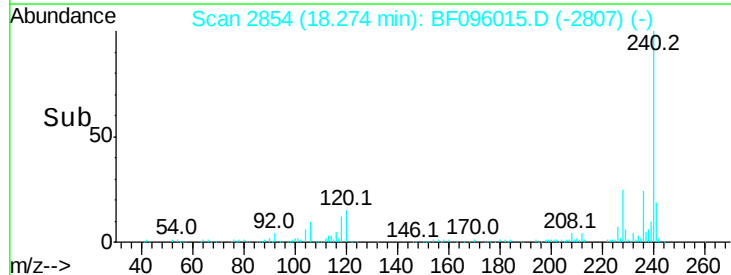
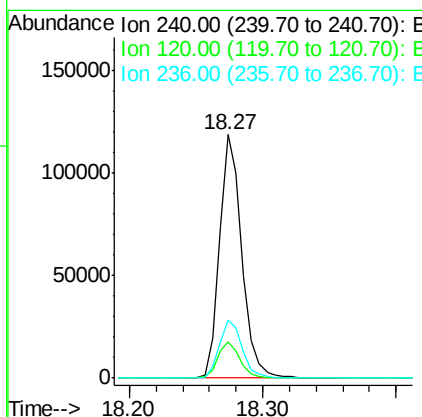
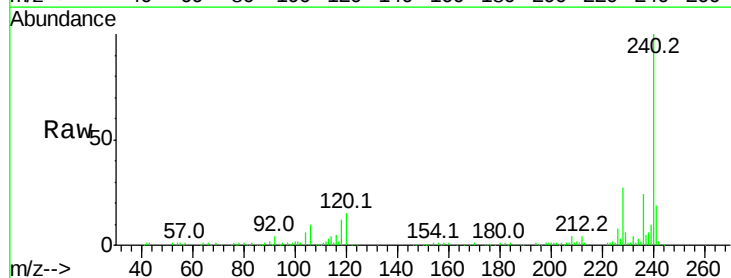
Instrument :
 BNA_F
 ClientSampleId :

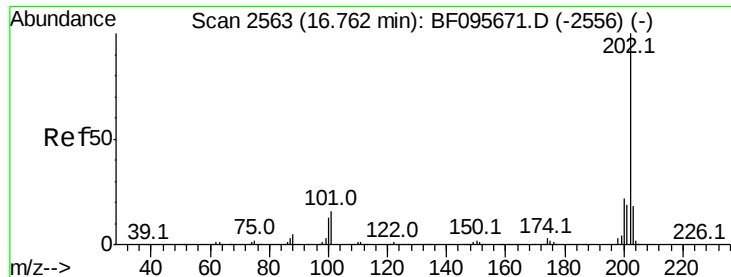
Tot Ion	Ratio	Lower	Upper
202	100		
101	13.9	0.0	33.2
203	17.4	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.27 min Scan# 2854
 Delta R.T. -0.02 min
 Lab File: BF096015.D
 Acq: 19 Jun 2017 20:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.8	5.8	8.8#
236	23.9	20.5	30.7

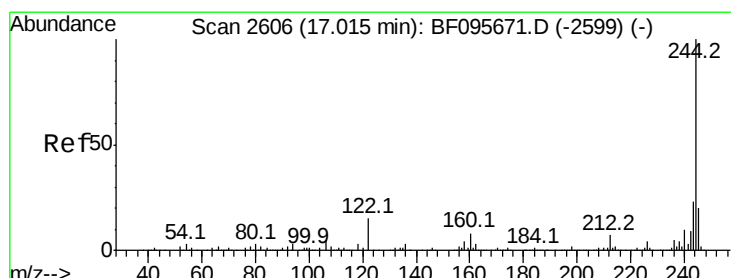
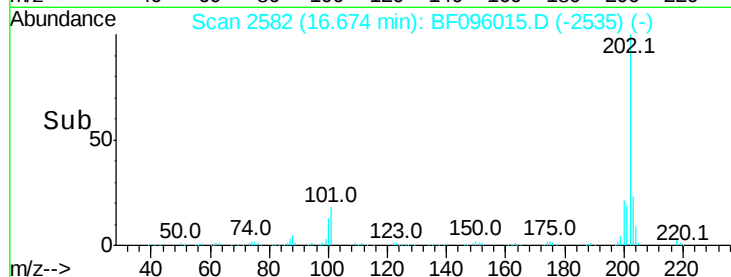
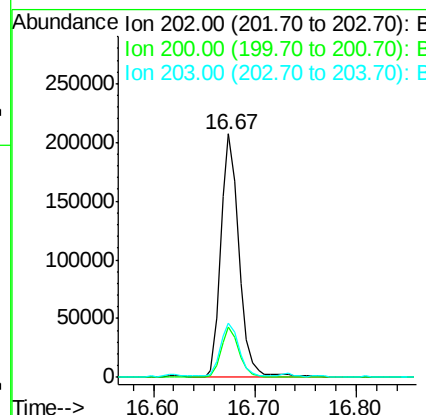
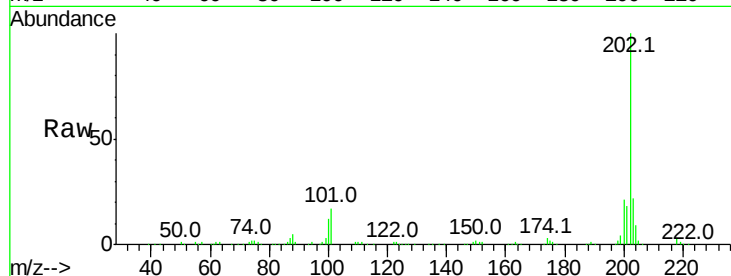




#77
Pvrene
Concen: 24.90 ng
RT: 16.67 min Scan# 2582
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

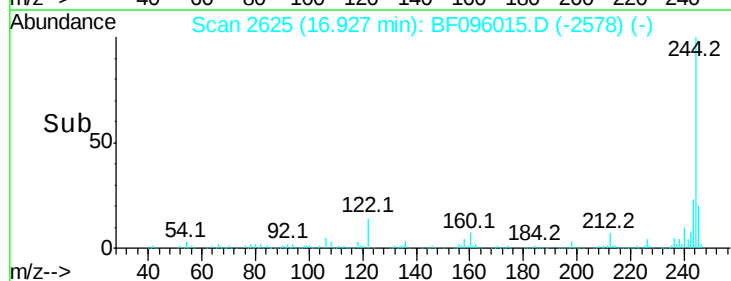
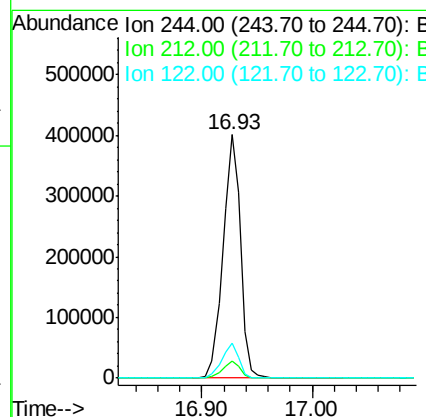
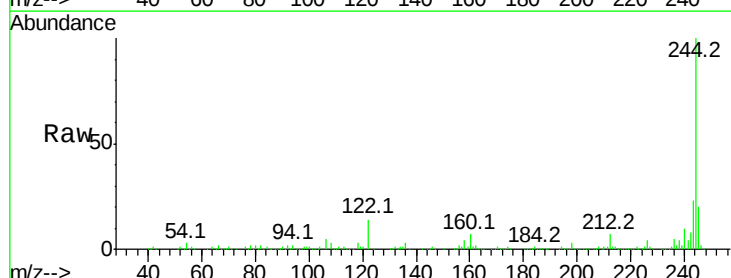
Instrument :
BNA_F
ClientSampleId :

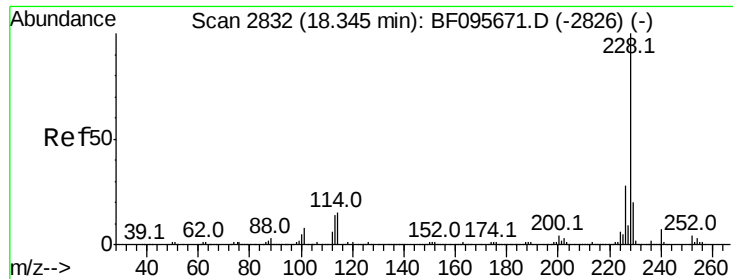
Tot Ion:202 Resp: 259311
Ion Ratio Lower Upper
202 100
200 20.7 17.6 26.4
203 22.3 14.4 21.6#



#78
Terphenyl-d14
Concen: 78.01 ng
RT: 16.93 min Scan# 2625
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Tgt Ion:244 Resp: 438652
Ion Ratio Lower Upper
244 100
212 6.8 6.0 9.0
122 14.5 10.3 15.5

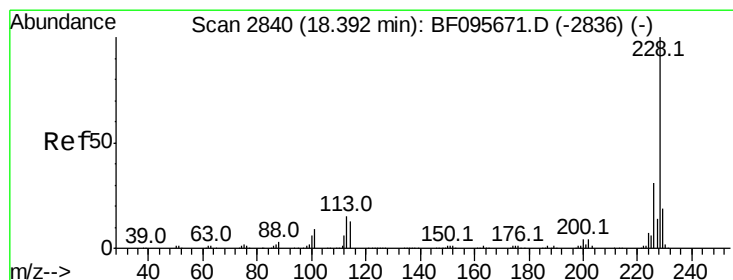
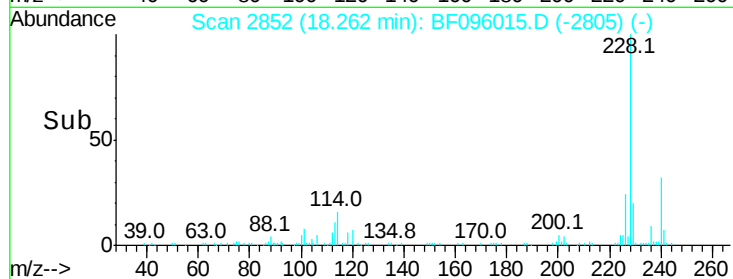
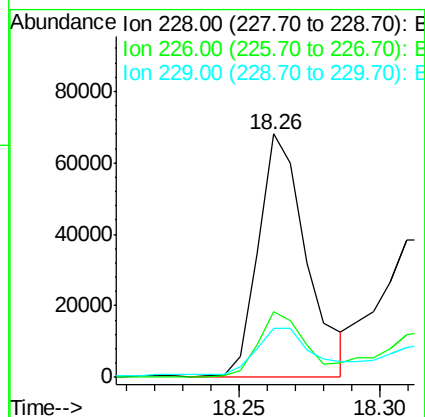
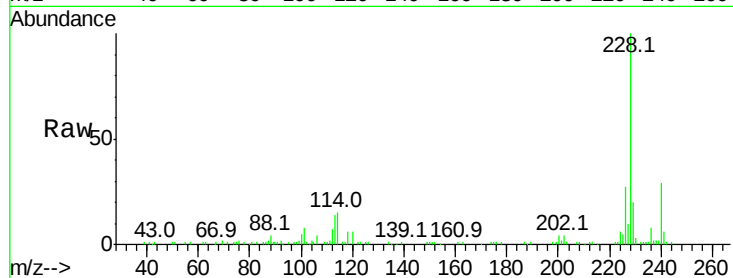




#80
Benzo(a)anthracene
Concen: 9.98 ng
RT: 18.26 min Scan# 2852
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

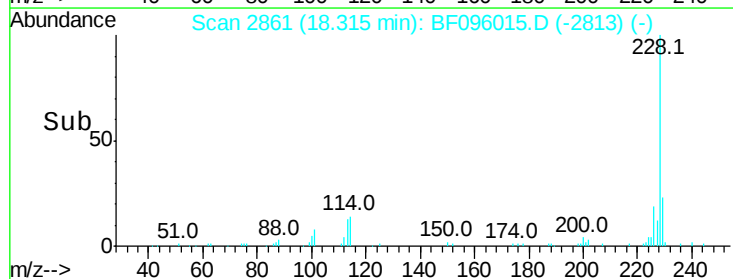
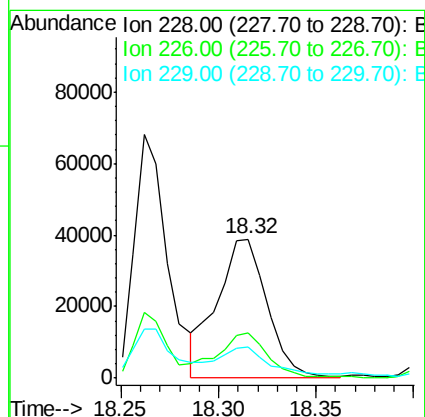
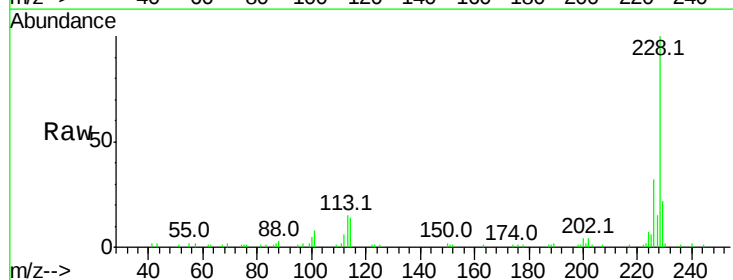
Instrument :
BNA_F
ClientSampleId :

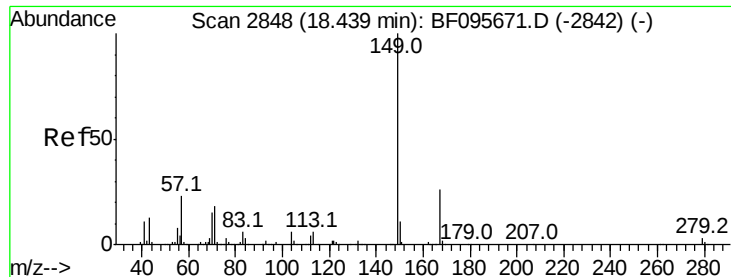
Tot Ion:228 Resp: 80977
Ion Ratio Lower Upper
228 100
226 27.2 22.6 33.8
229 20.1 16.3 24.5



#82
Chrysene
Concen: 8.62 ng
RT: 18.32 min Scan# 2861
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Tgt Ion:228 Resp: 69867
Ion Ratio Lower Upper
228 100
226 32.3 24.9 37.3
229 22.4 15.8 23.6

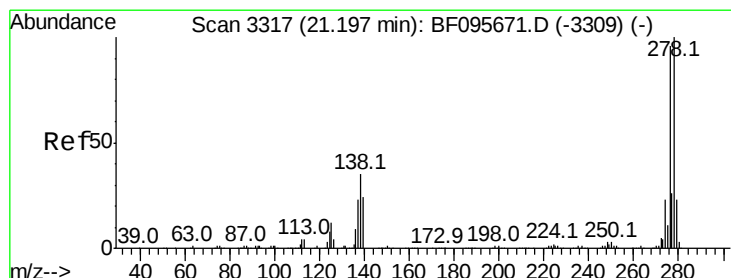
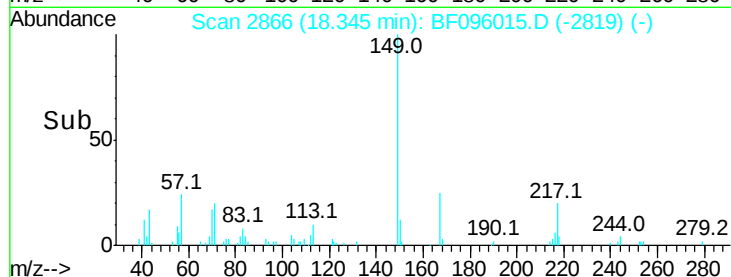
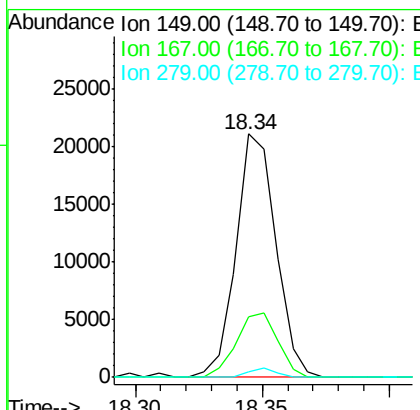
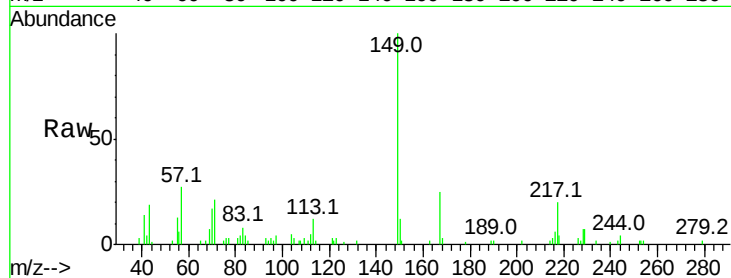




#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.60 ng
 RT: 18.34 min Scan# 2866
 Delta R.T. -0.02 min
 Lab File: BF096015.D
 Acq: 19 Jun 2017 20:01

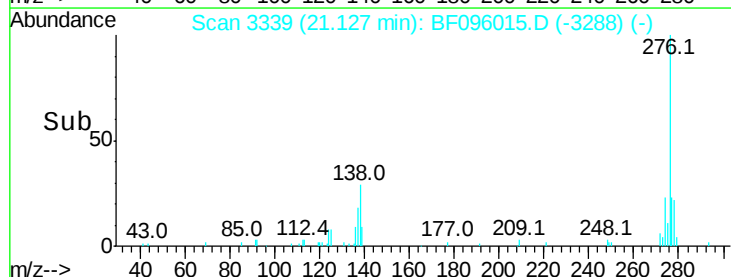
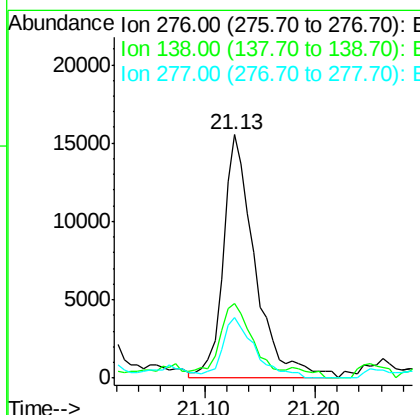
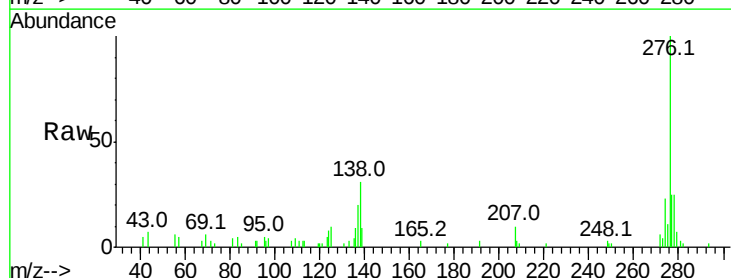
Instrument :
 BNA_F
 ClientSampleId :

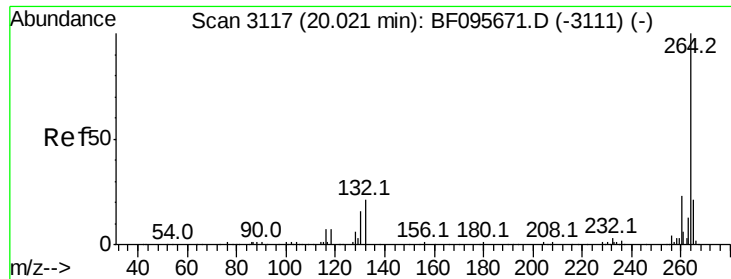
Tot Ion:149 Resp: 23109
 Ion Ratio Lower Upper
 149 100
 167 24.9 21.0 31.4
 279 2.3 1.9 2.9



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.51 ng
 RT: 21.13 min Scan# 3339
 Delta R.T. 0.00 min
 Lab File: BF096015.D
 Acq: 19 Jun 2017 20:01

Tgt Ion:276 Resp: 31282
 Ion Ratio Lower Upper
 276 100
 138 26.3 27.8 41.6#
 277 25.4 20.2 30.4

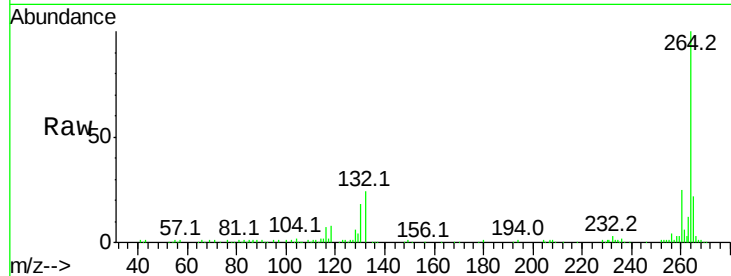




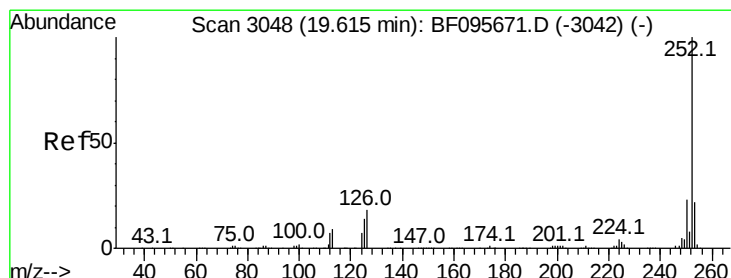
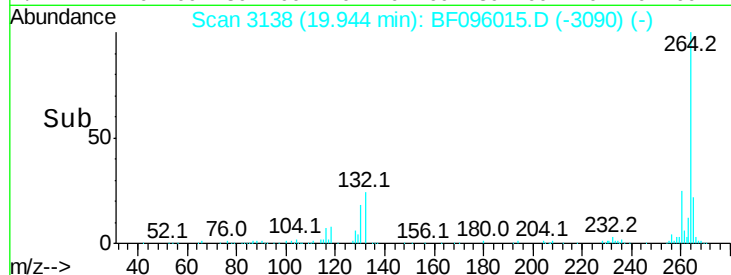
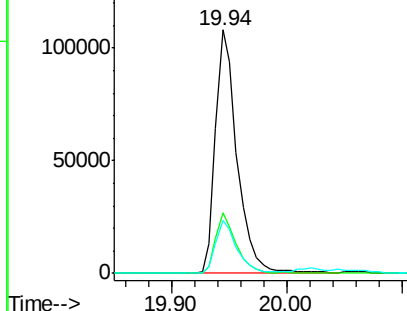
#86
Pervlene-d12
Concen: 20.00 ng
RT: 19.94 min Scan# 3138
Delta R.T. -0.02 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Instrument :
BNA_F
ClientSampled :

Tot Ion:264 Resp: 140775
Ion Ratio Lower Upper
264 100
260 25.0 19.5 29.3
265 21.8 17.2 25.8

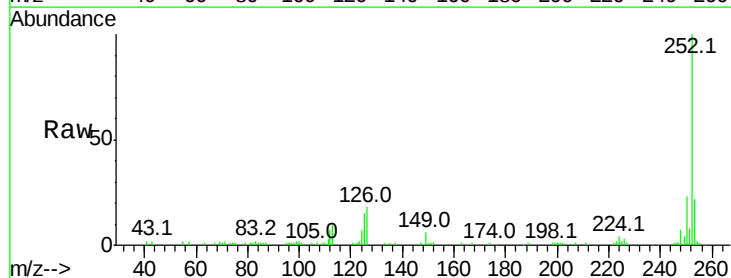


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

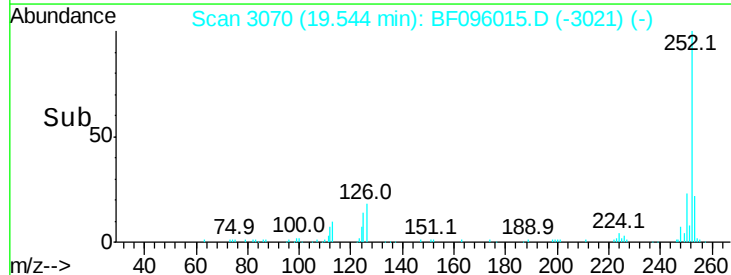
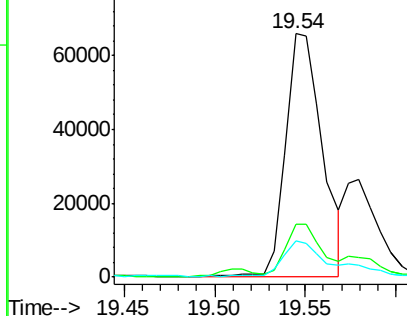


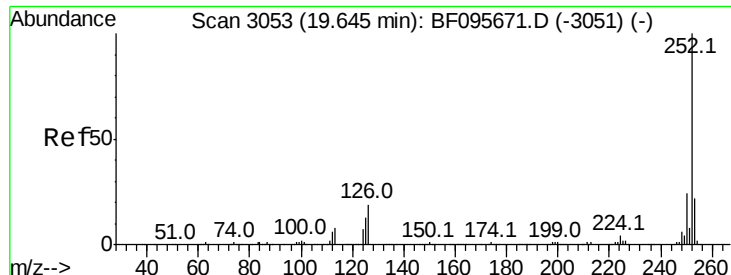
#87
Benzo(b)fluoranthene
Concen: 10.63 ng
RT: 19.54 min Scan# 3070
Delta R.T. -0.01 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Tgt Ion:252 Resp: 93689
Ion Ratio Lower Upper
252 100
253 21.7 18.1 27.1
125 15.0 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

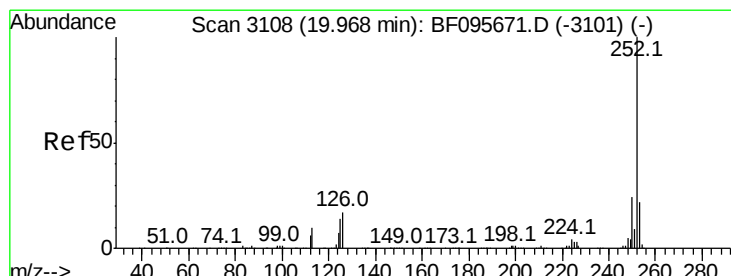
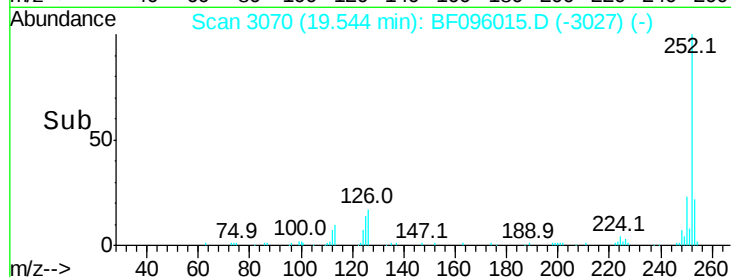
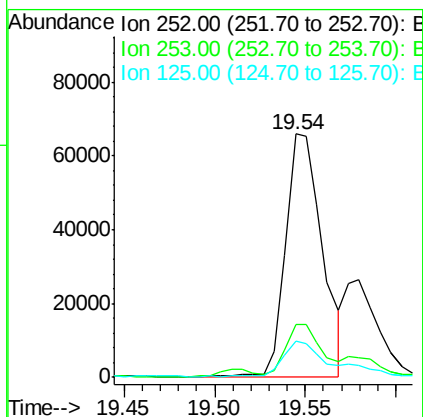
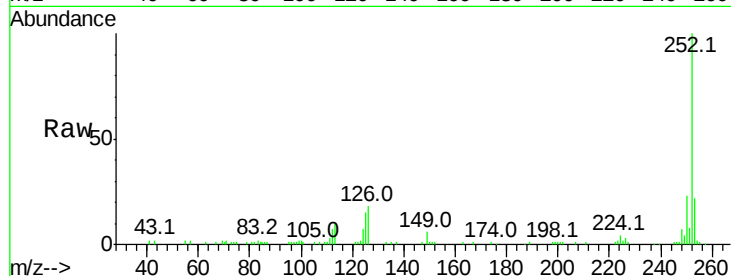




#88
Benzo(k)fluoranthene
Concen: 11.12 ng
RT: 19.54 min Scan# 3070
Delta R.T. -0.05 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

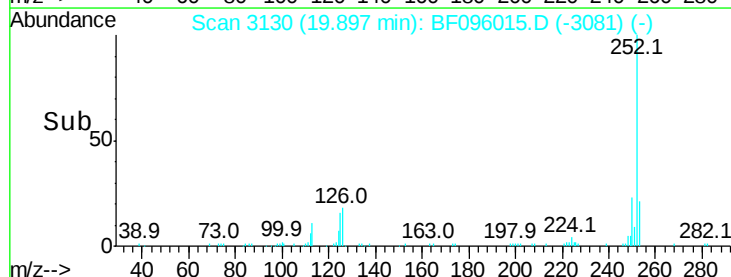
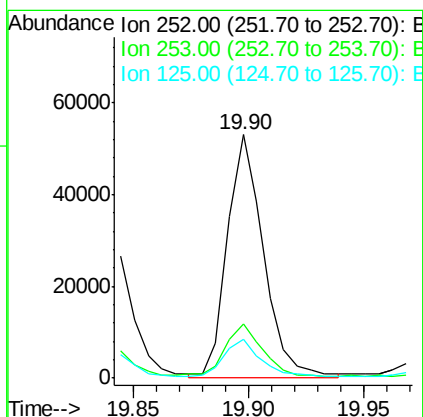
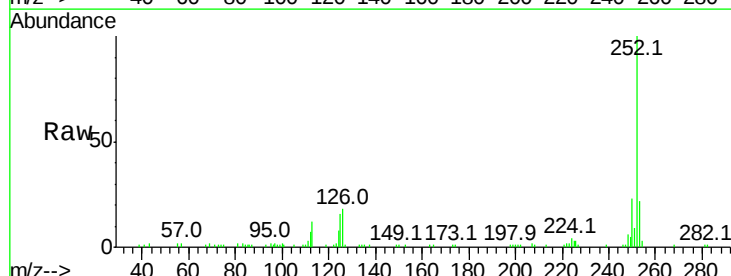
Instrument :
BNA_F
ClientSampleId :

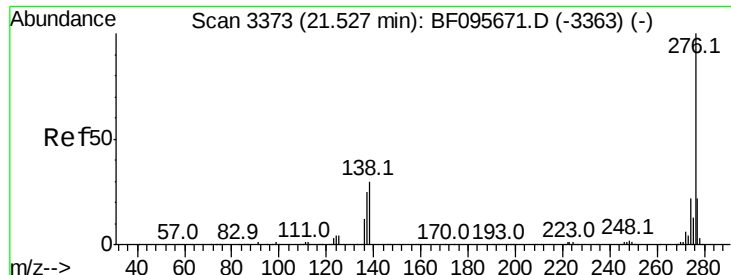
Tot Ion:252 Resp: 93689
Ion Ratio Lower Upper
252 100
253 21.7 18.4 27.6
125 15.0 13.1 19.7



#89
Benzo(a)pyrene
Concen: 7.20 ng
RT: 19.90 min Scan# 3130
Delta R.T. -0.01 min
Lab File: BF096015.D
Acq: 19 Jun 2017 20:01

Tgt Ion:252 Resp: 58346
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 16.1 11.0 16.4





#91

Benzo(a,h,i)perylene

Concen: 3.66 ng

RT: 21.46 min Scan# 3395

Delta R.T. 0.01 min

Lab File: BF096015.D

Acq: 19 Jun 2017 20:01

Instrument :

BNA_F

ClientSampleId :

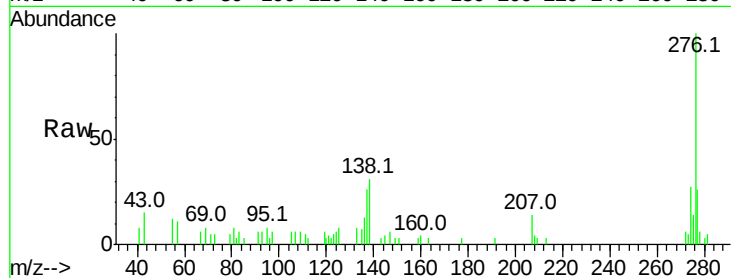
Tot Ion:276 Resp: 25640

Ion Ratio Lower Upper

276 100

277 25.9 18.6 28.0

138 31.2 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

