

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062217\
 Data File : BF096121.D
 Acq On : 22 Jun 2017 14:40
 Operator : SJ/MA
 Sample : I3688-18DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 22 16:24:07 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 20 16:05:47 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.27	152	99356	20.00	ng	-0.02
21) Naphthalene-d8	9.31	136	412593	20.00	ng	-0.02
38) Acenaphthene-d10	12.13	164	187969	20.00	ng	-0.02
63) Phenanthrene-d10	14.52	188	320780	20.00	ng	-0.02
75) Chrysene-d12	18.26	240	188493	20.00	ng	-0.01
86) Perylene-d12	19.94	264	162644	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.26	112	36375	5.83	ng	0.08
7) Phenol-d6	6.93	99	65494	8.77	ng	0.06
23) Nitrobenzene-d5	8.25	82	39952	6.01	ng	0.02
41) 2,4,6-Tribromophenol	13.45	330	14489	8.71	ng	0.00
44) 2-Fluorobiphenyl	11.09	172	100252	7.42	ng	-0.02
78) Terphenyl-d14	16.91	244	64213	8.45	ng	-0.02

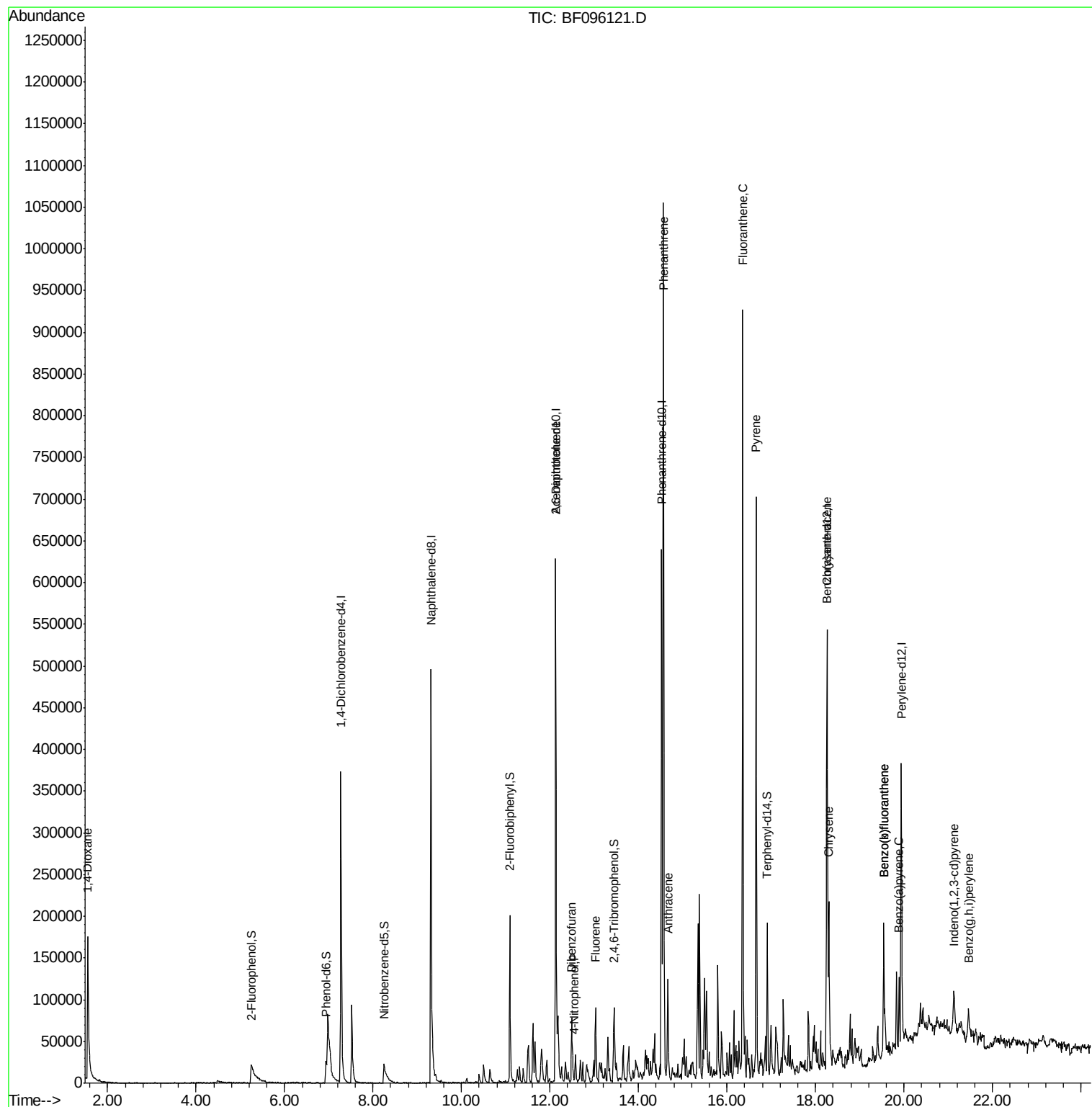
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.55	88	9209	3.10	ng	# 24
50) 2,6-Dinitrotoluene	12.13	165	23266	7.47	ng	# 31
54) Dibenzofuran	12.49	168	46980	2.79	ng	98
55) 4-Nitrophenol	12.55	139	537	4.87	ng	# 25
57) Fluorene	13.03	166	31048	2.12	ng	# 99
70) Phenanthrene	14.56	178	608095	32.85	ng	98
71) Anthracene	14.66	178	87670	4.54	ng	97
74) Fluoranthene	16.36	202	504763	27.55	ng	99
77) Pyrene	16.66	202	334441	23.78	ng	97
80) Benzo(a)anthracene	18.25	228	88045	8.03	ng	99
82) Chrysene	18.30	228	112690	10.29	ng	99
85) Indeno(1,2,3-cd)pyrene	21.13	276	28149	3.00	ng	97
87) Benzo(b)fluoranthene	19.54	252	85224	8.37	ng	# 93
88) Benzo(k)fluoranthene	19.54	252	85224	8.75	ng	96
89) Benzo(a)pyrene	19.89	252	34030	3.64	ng	97
91) Benzo(g,h,i)perylene	21.46	276	21451	2.65	ng	97

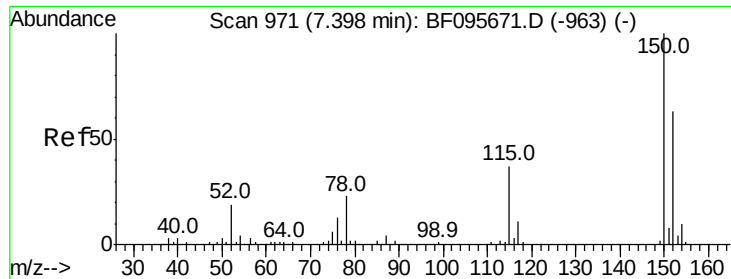
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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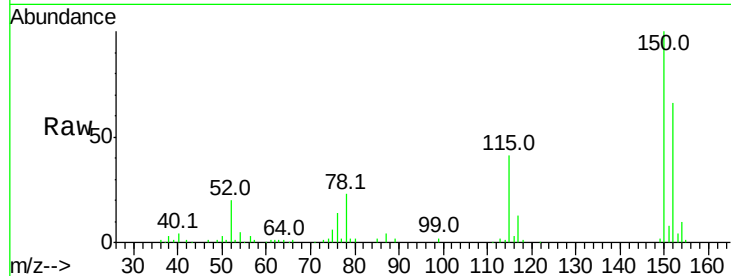


#1

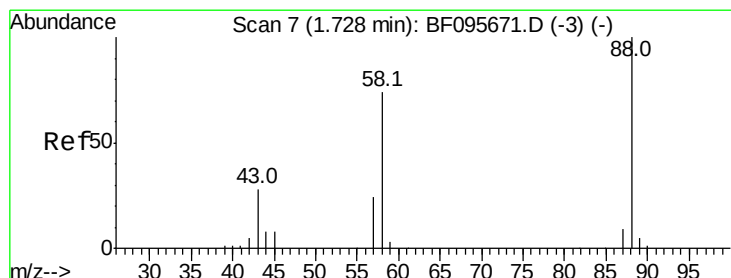
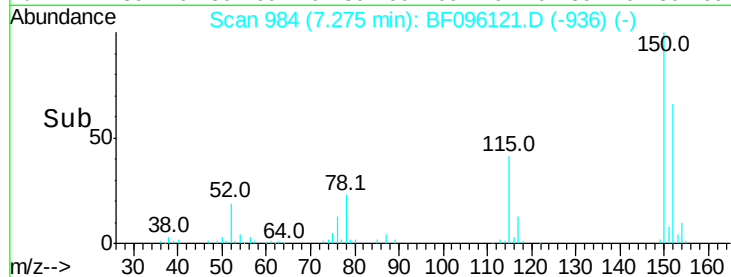
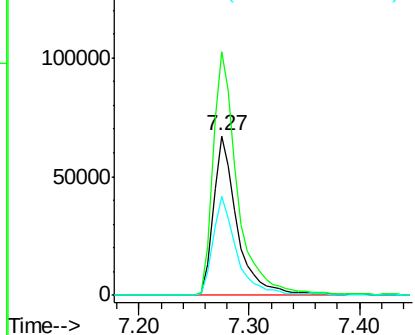
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.27 min Scan# 984
Delta R.T. -0.02 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.4	126.2	189.2
115	61.8	52.2	78.2



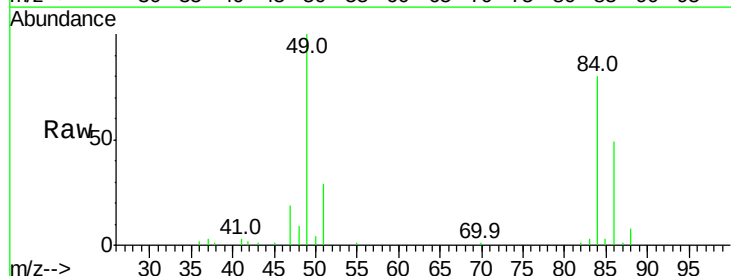
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



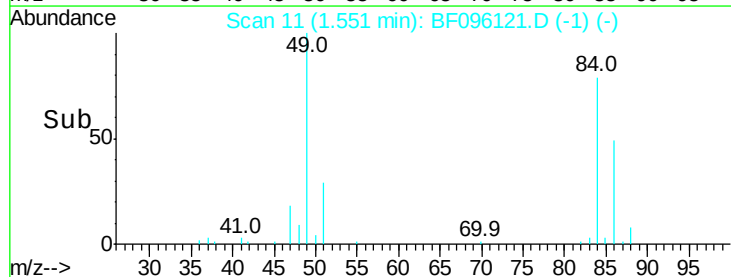
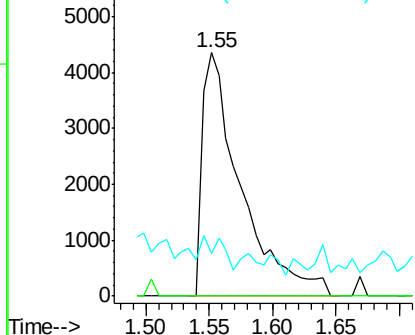
#2

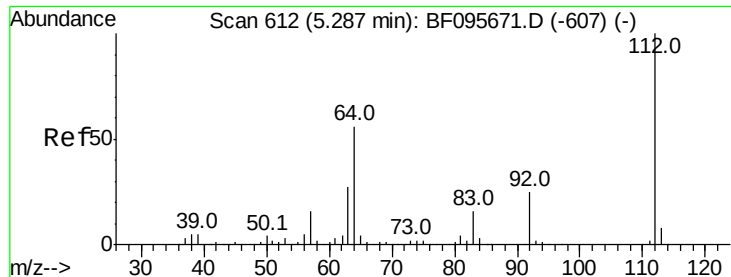
1,4-Dioxane
Concen: 3.10 ng
RT: 1.55 min Scan# 11
Delta R.T. -0.06 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	61.4	92.0#
43	7.0	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

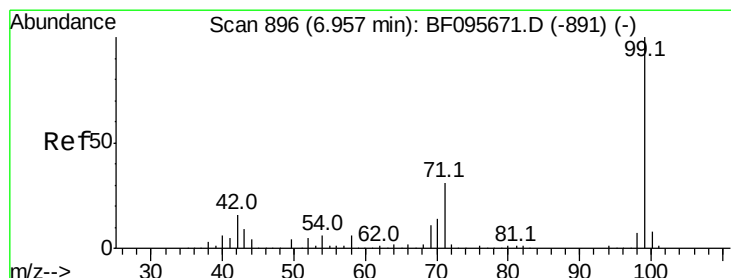
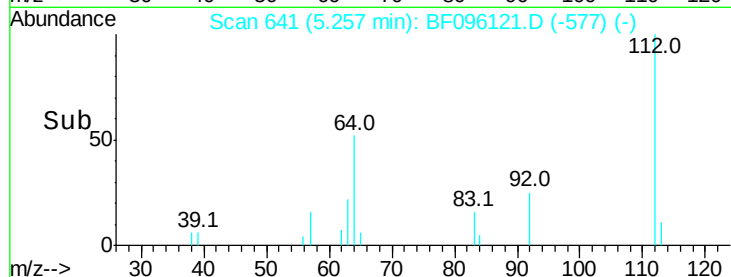
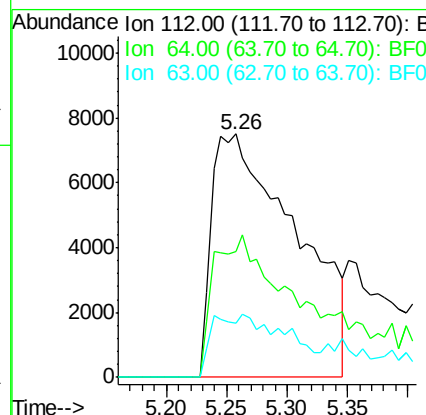
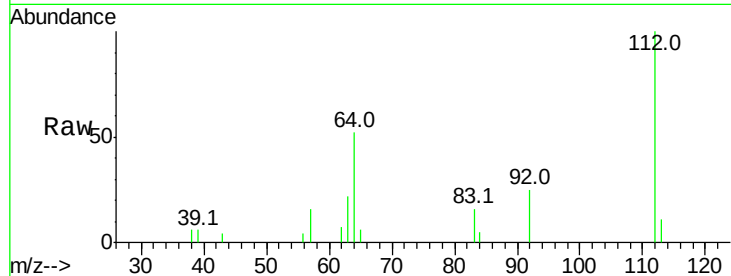




#5
2-Fluorophenol
Concen: 5.83 ng
RT: 5.26 min Scan# 641
Delta R.T. 0.08 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

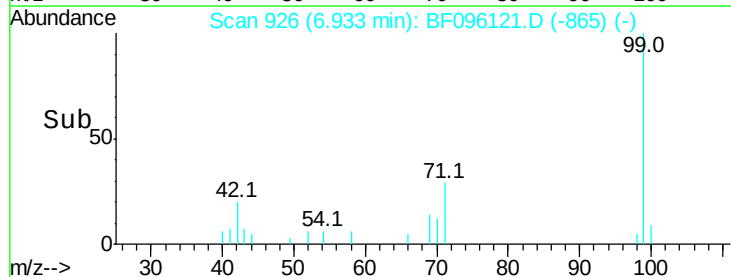
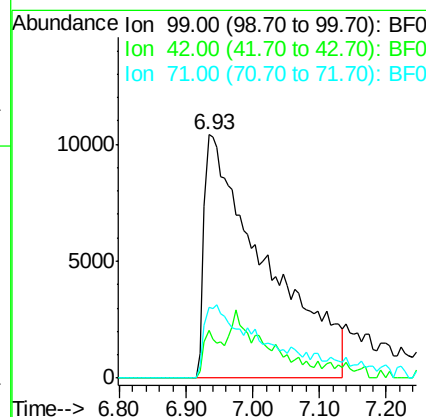
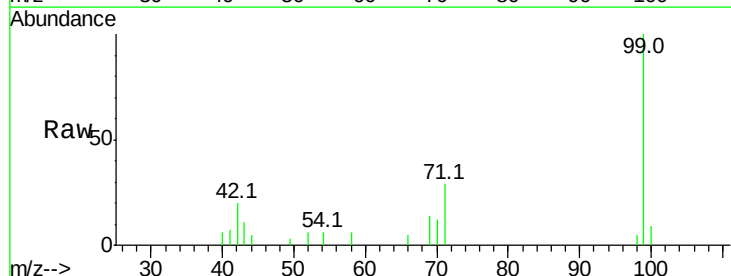
Instrument :
BNA_F
ClientSampleId :

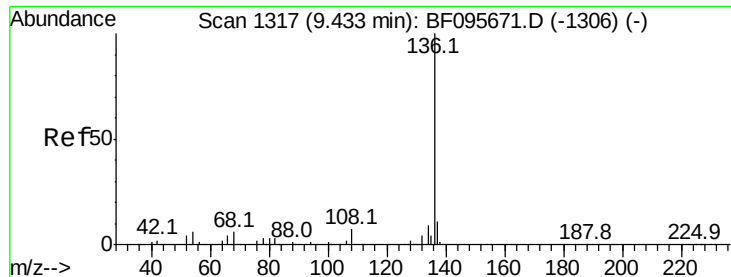
Tot Ion: 112 Resp: 36375
Ion Ratio Lower Upper
112 100
64 51.7 46.0 69.0
63 22.3 23.4 35.0#



#7
Phenol-d6
Concen: 8.77 ng
RT: 6.93 min Scan# 926
Delta R.T. 0.06 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion: 99 Resp: 65494
Ion Ratio Lower Upper
99 100
42 19.7 13.5 20.3
71 29.1 24.5 36.7

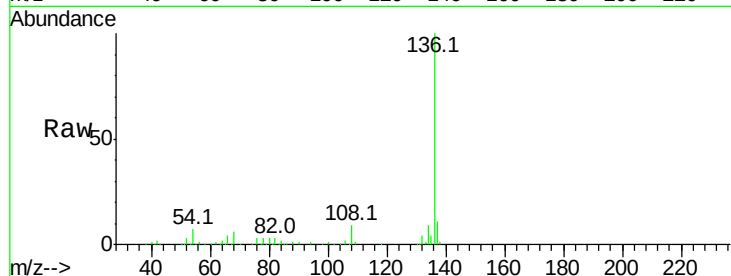




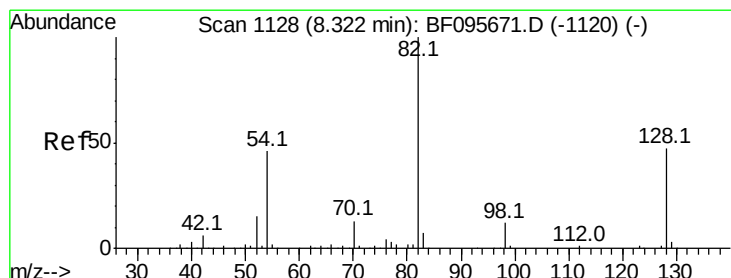
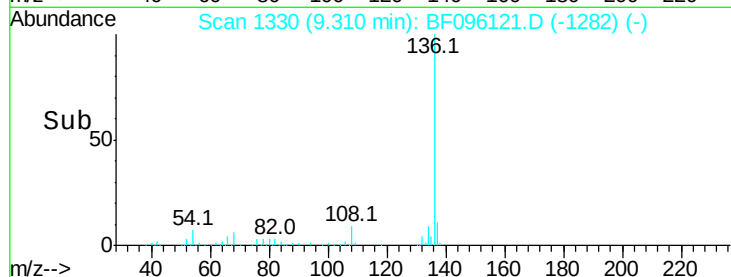
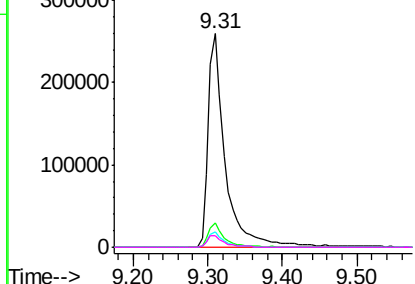
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 9.31 min Scan# 1330
Delta R.T. -0.02 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:	136	Resp:	412593
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.5	12.7
54	7.1	4.9	7.3
68	5.7	4.1	6.1

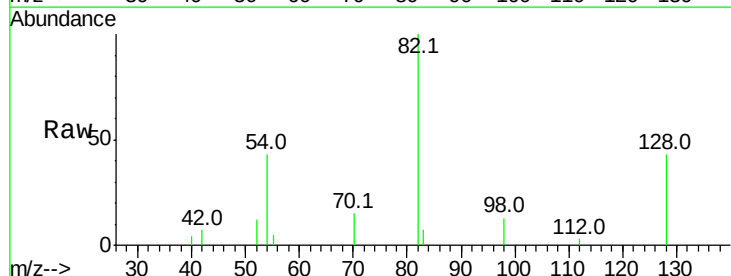


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

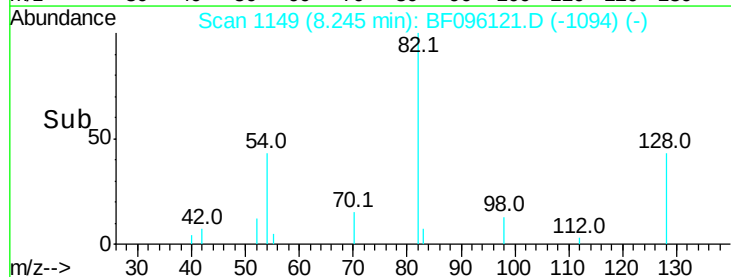
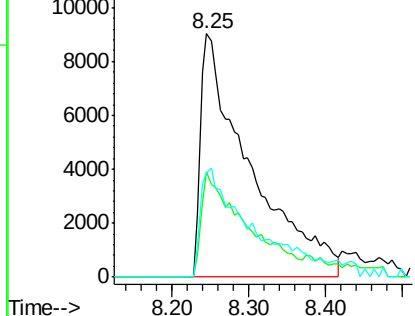


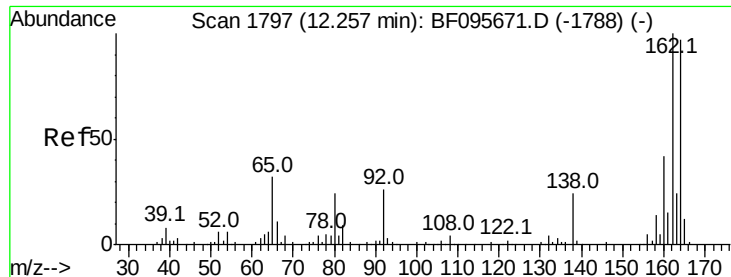
#23
Nitrobenzene-d5
Concen: 6.01 ng
RT: 8.25 min Scan# 1149
Delta R.T. 0.02 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion:	82	Resp:	39952
Ion	Ratio	Lower	Upper
82	100		
128	43.3	34.0	51.0
54	42.6	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: 12.13 min Scan# 1809

Delta R.T. -0.02 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

Instrument :

BNA_F

ClientSampleId :

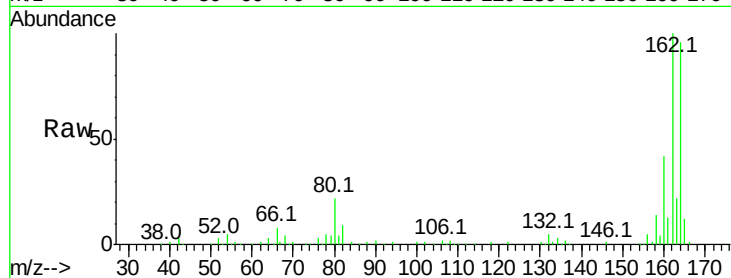
Tot Ion:164 Resp: 187969

Ion Ratio Lower Upper

164 100

162 104.5 82.6 123.8

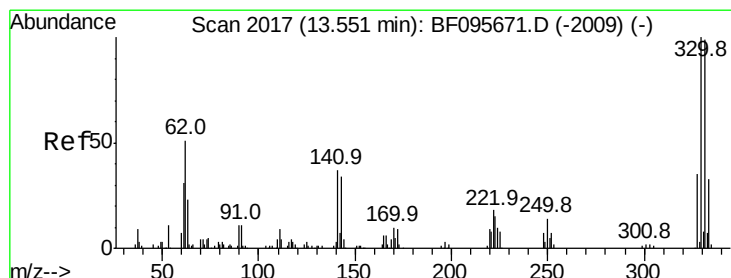
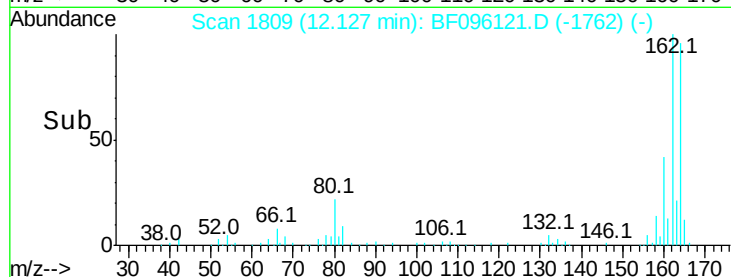
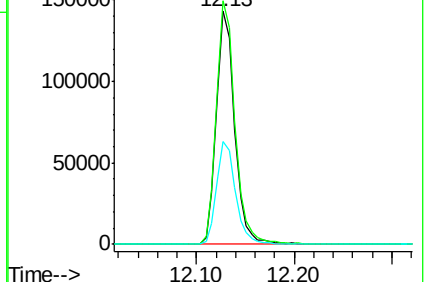
160 44.3 36.2 54.2



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: 8.71 ng

RT: 13.45 min Scan# 2034

Delta R.T. 0.00 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

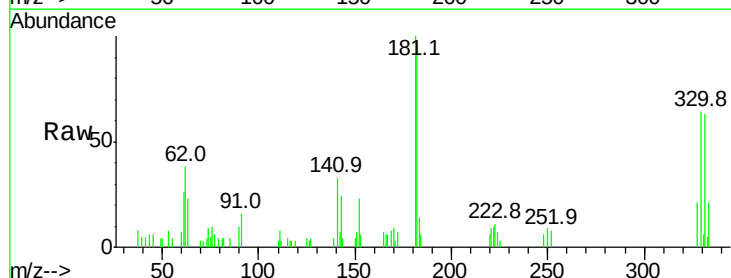
Tgt Ion:330 Resp: 14489

Ion Ratio Lower Upper

330 100

332 95.5 76.6 115.0

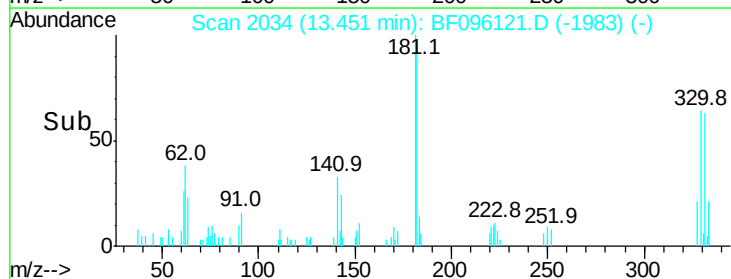
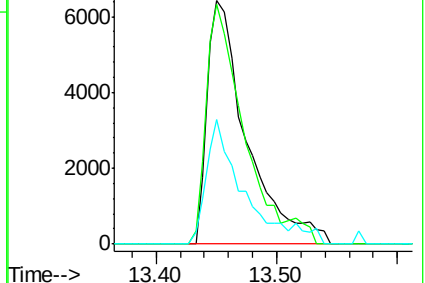
141 48.7 31.4 47.2#

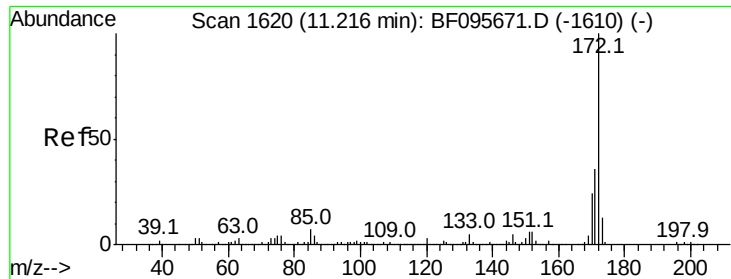


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

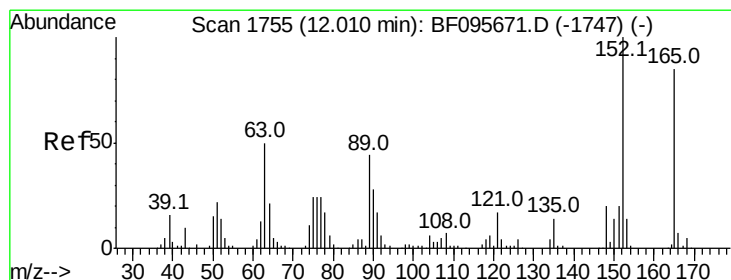
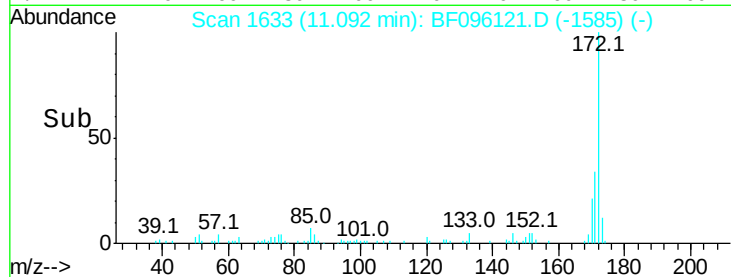
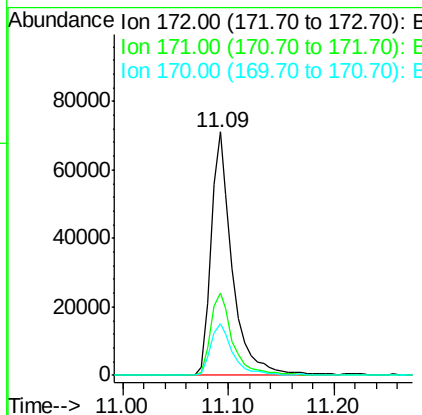
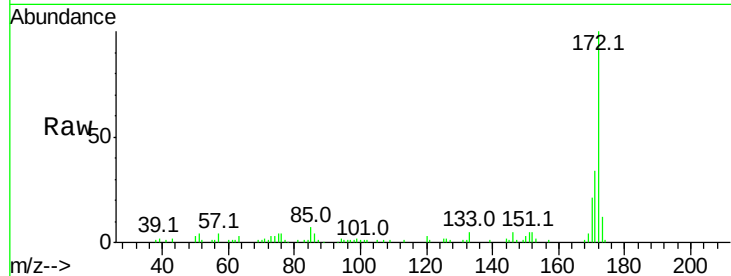




#44
2-Fluorobiphenyl
Concen: 7.42 ng
RT: 11.09 min Scan# 1633
Delta R.T. -0.02 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

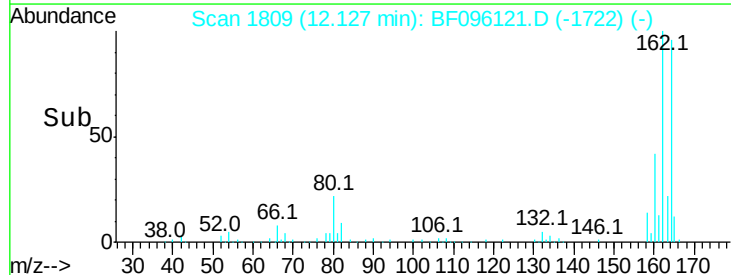
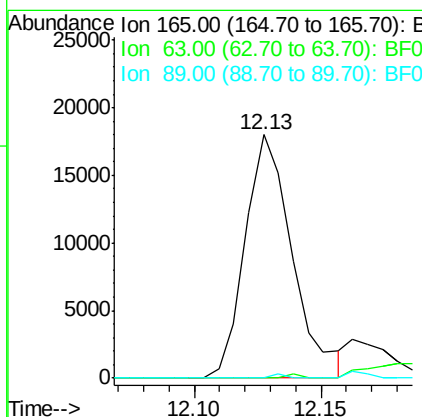
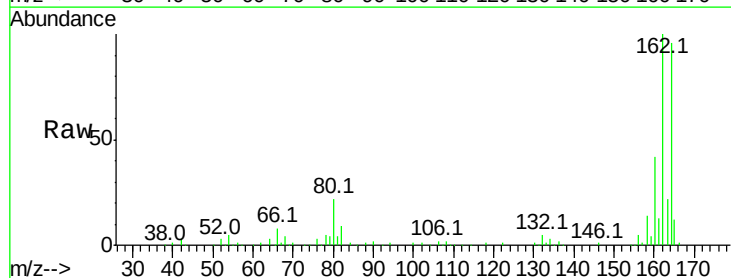
Instrument :
BNA_F
ClientSampled :

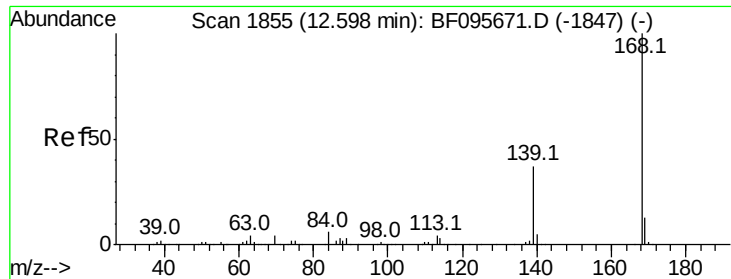
Tot Ion:172 Resp: 100252
Ion Ratio Lower Upper
172 100
171 33.7 29.6 44.4
170 21.0 19.8 29.8



#50
2,6-Dinitrotoluene
Concen: 7.47 ng
RT: 12.13 min Scan# 1809
Delta R.T. 0.21 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion:165 Resp: 23266
Ion Ratio Lower Upper
165 100
63 0.0 34.3 51.5#
89 0.0 37.1 55.7#





#54

Dibenzofuran

Concen: 2.79 ng

RT: 12.49 min Scan# 1870

Delta R.T. -0.01 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

Instrument :

BNA_F

ClientSampleId :

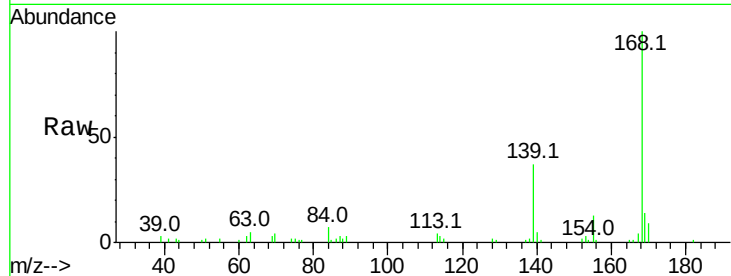
Tot Ion:168 Resp: 46980

Ion Ratio Lower Upper

168 100

139 37.0 30.6 45.8

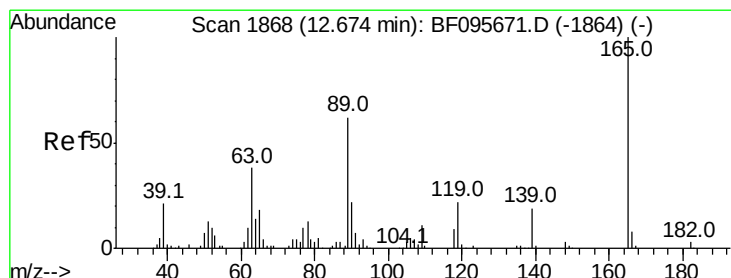
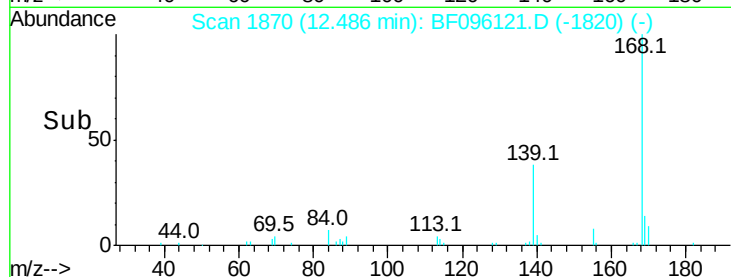
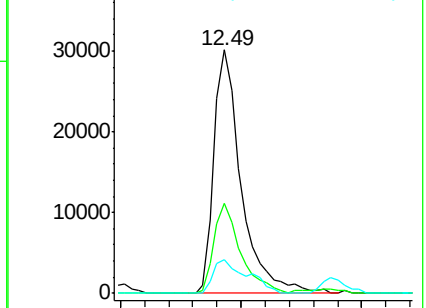
169 13.8 10.8 16.2



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: 4.87 ng

RT: 12.55 min Scan# 1881

Delta R.T. -0.08 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

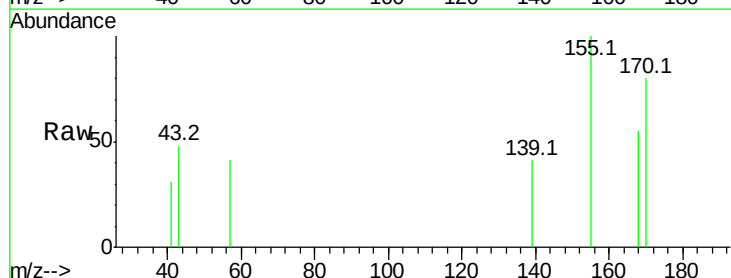
Tgt Ion:139 Resp: 537

Ion Ratio Lower Upper

139 100

109 0.0 34.1 74.1#

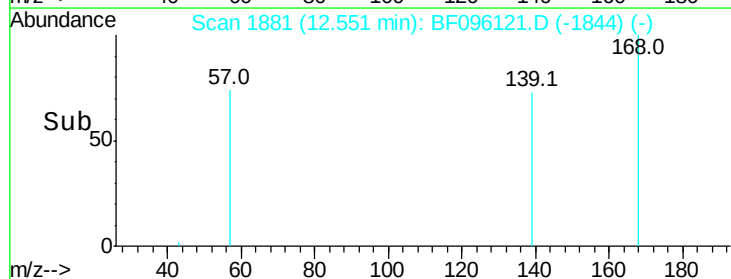
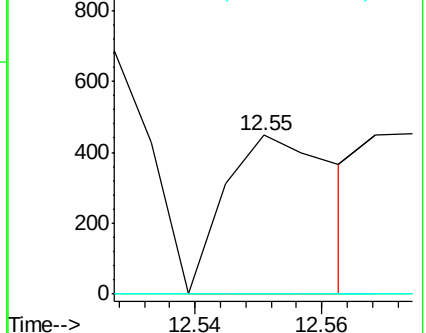
65 0.0 31.4 71.4#

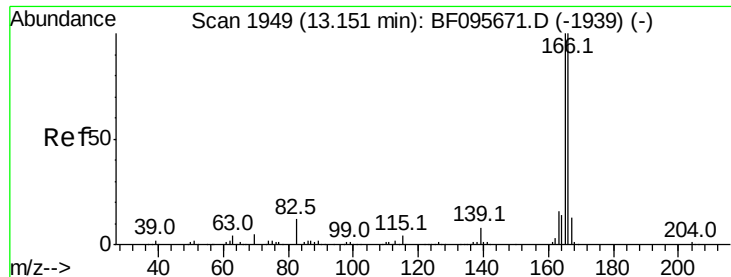


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

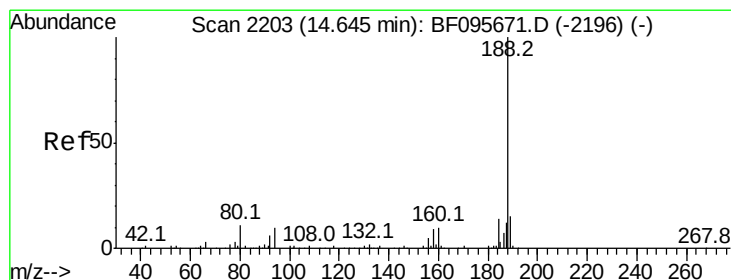
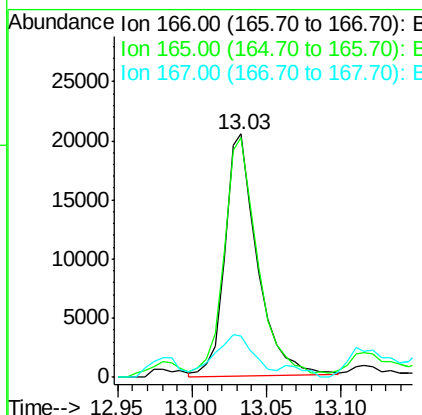
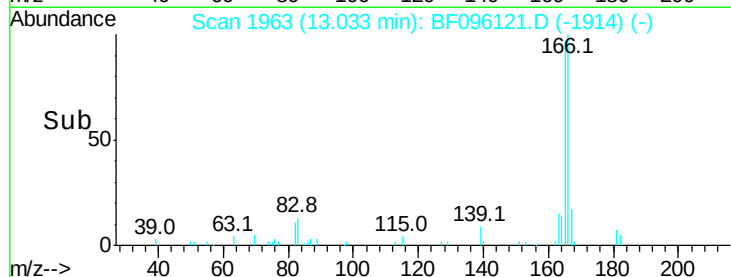
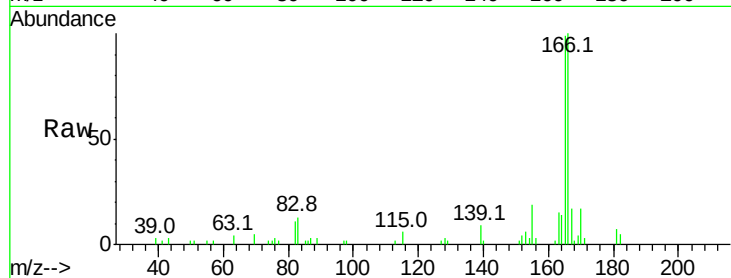




#57
 Fluorene
 Concen: 2.12 ng
 RT: 13.03 min Scan# 1963
 Delta R.T. -0.01 min
 Lab File: BF096121.D
 Acq: 22 Jun 2017 14:40

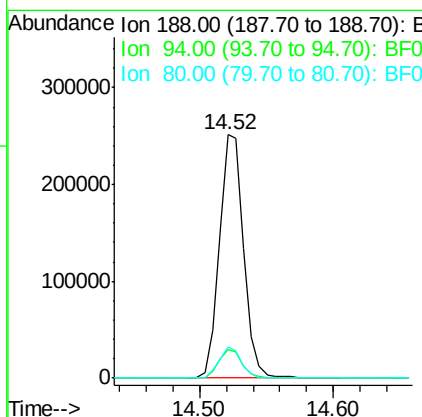
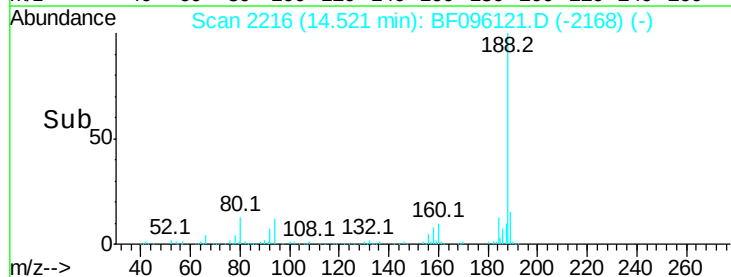
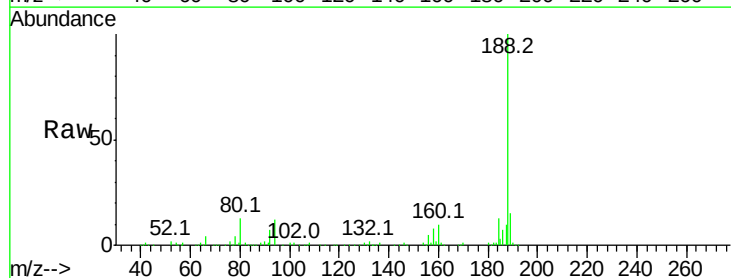
Instrument :
 BNA_F
 ClientSampleId :

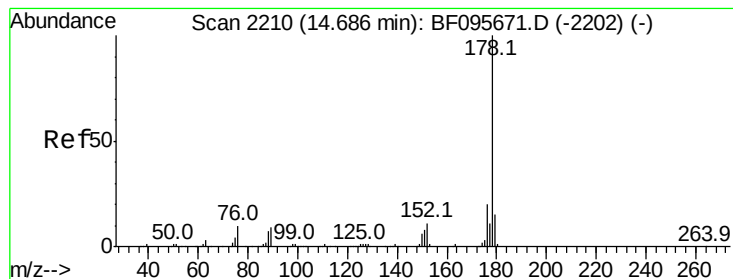
Tot Ion:166 Resp: 31048
 Ion Ratio Lower Upper
 166 100
 165 98.6 78.8 118.2
 167 16.9 10.6 16.0#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.52 min Scan# 2216
 Delta R.T. -0.02 min
 Lab File: BF096121.D
 Acq: 22 Jun 2017 14:40

Tgt Ion:188 Resp: 320780
 Ion Ratio Lower Upper
 188 100
 94 11.6 9.4 14.2
 80 12.8 10.2 15.2





#70

Phenanthrene

Concen: 32.85 ng

RT: 14.56 min Scan# 2223

Delta R.T. -0.02 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

Instrument :

BNA_F

ClientSampleId :

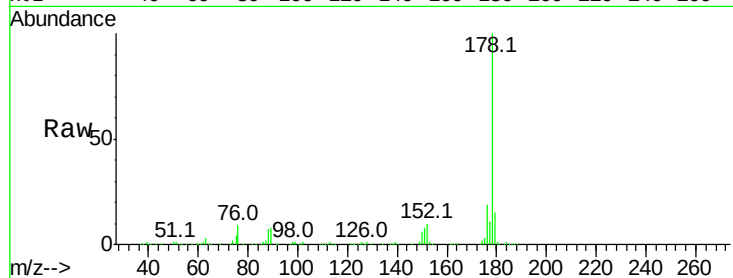
Tot Ion:178 Resp: 608095

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

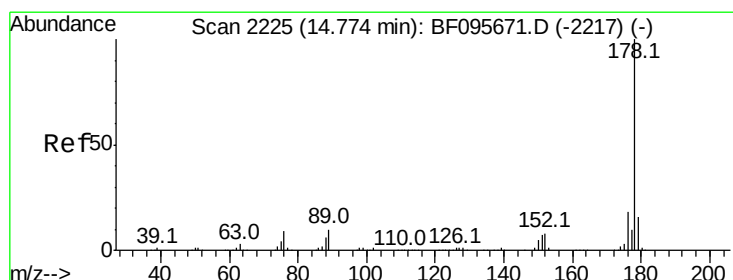
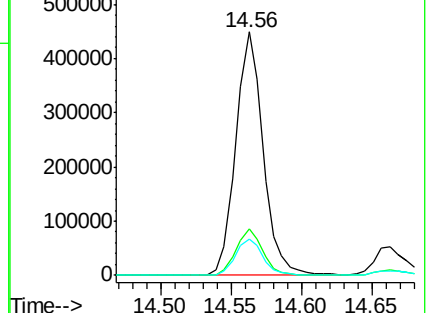
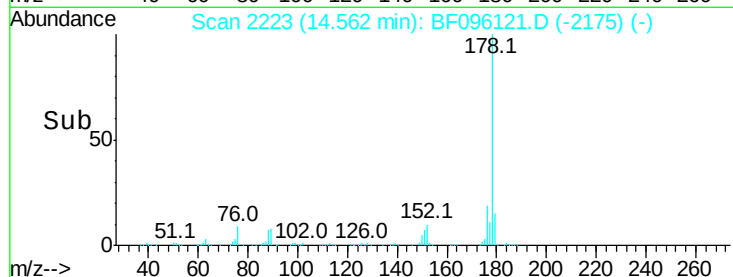
179 15.1 12.6 19.0



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: 4.54 ng

RT: 14.66 min Scan# 2240

Delta R.T. -0.01 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

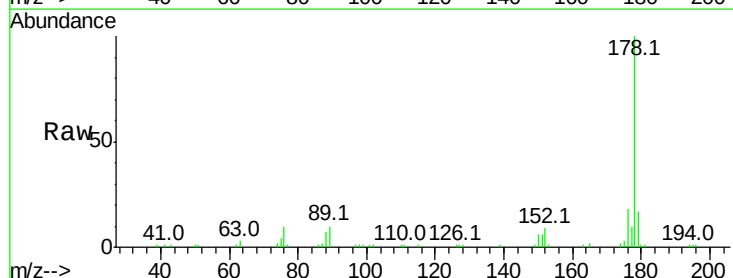
Tgt Ion:178 Resp: 87670

Ion Ratio Lower Upper

178 100

176 18.4 15.8 23.8

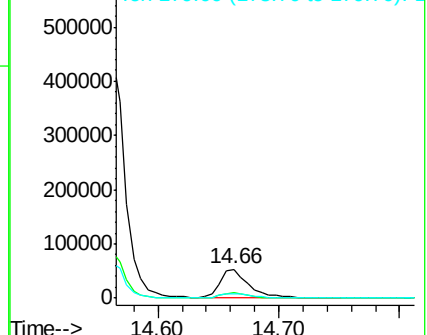
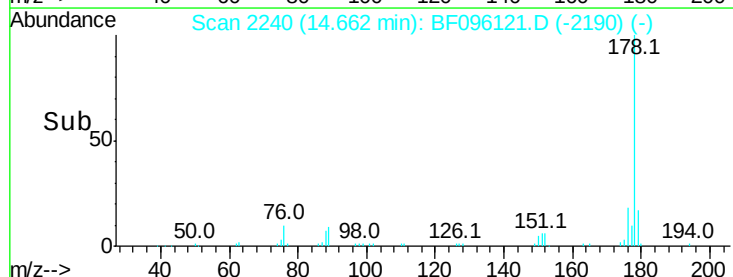
179 16.7 12.7 19.1

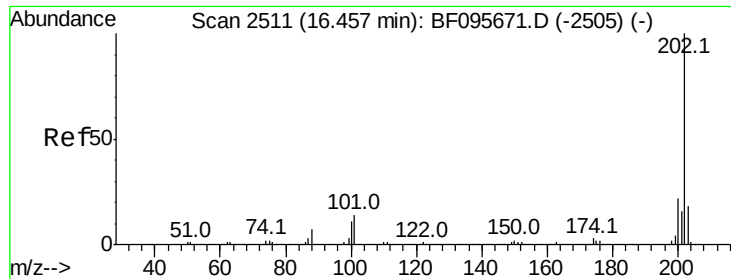


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

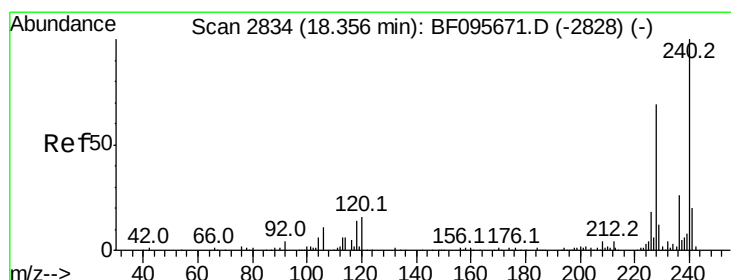
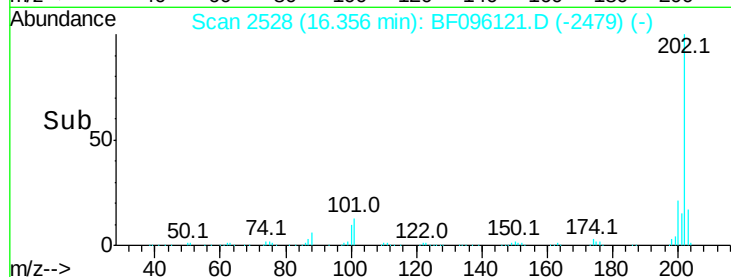
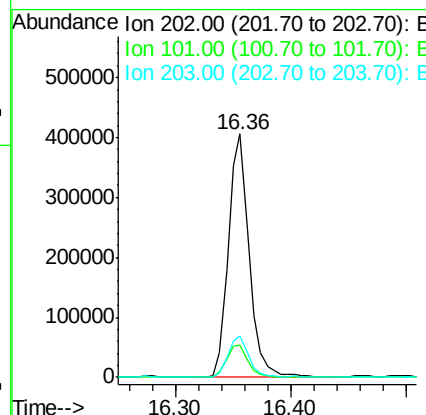
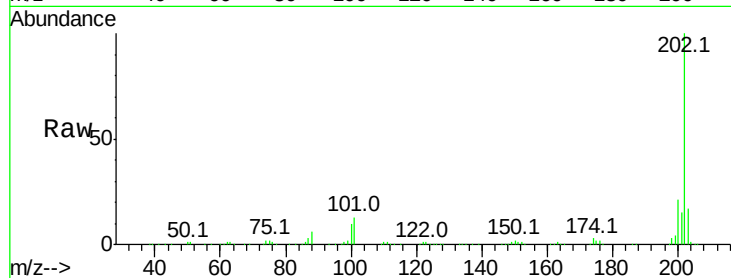




#74
 Fluoranthene
 Concen: 27.55 ng
 RT: 16.36 min Scan# 2528
 Delta R.T. -0.01 min
 Lab File: BF096121.D
 Acq: 22 Jun 2017 14:40

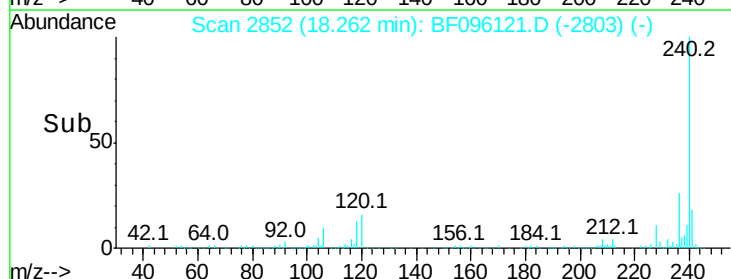
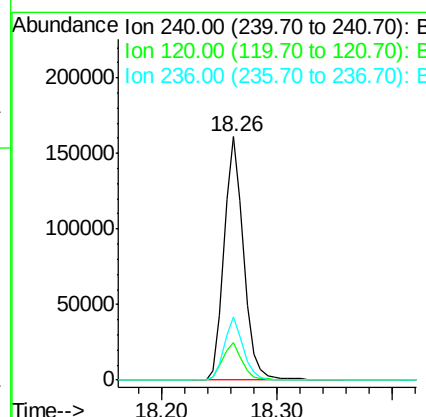
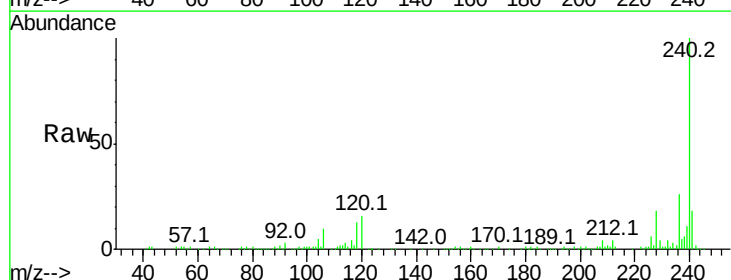
Instrument :
 BNA_F
 ClientSampled :

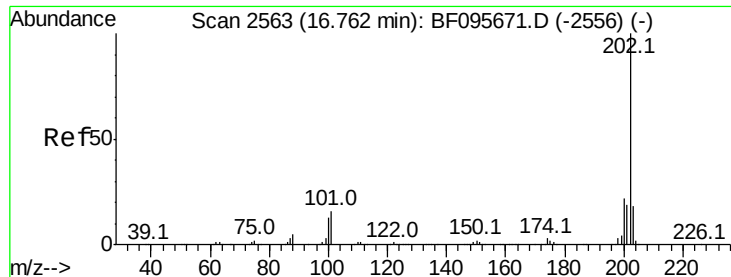
Tot Ion:202 Resp: 504763
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 33.2
 203 17.2 0.0 38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.26 min Scan# 2852
 Delta R.T. -0.01 min
 Lab File: BF096121.D
 Acq: 22 Jun 2017 14:40

Tgt Ion:240 Resp: 188493
 Ion Ratio Lower Upper
 240 100
 120 15.6 5.8 8.8#
 236 26.0 20.5 30.7





#77

Pvrene

Concen: 23.78 ng

RT: 16.66 min Scan# 2579

Delta R.T. -0.01 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

Instrument :

BNA_F

ClientSampleId :

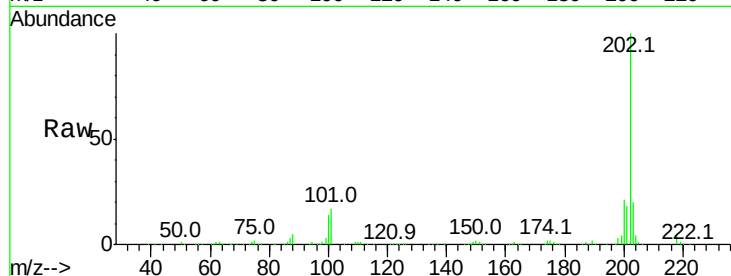
Tot Ion:202 Resp: 334441

Ion Ratio Lower Upper

202 100

200 20.9 17.6 26.4

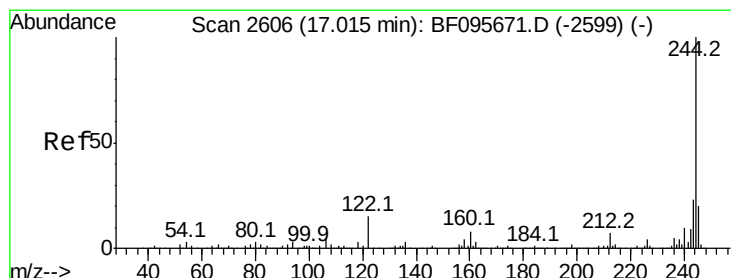
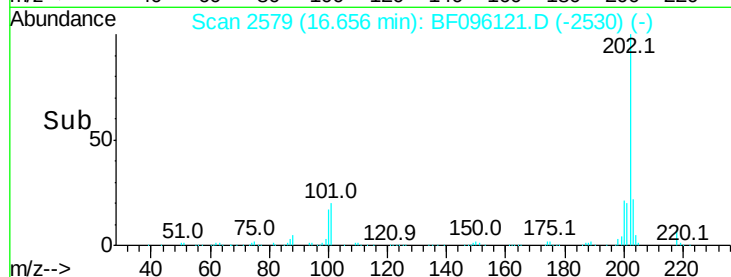
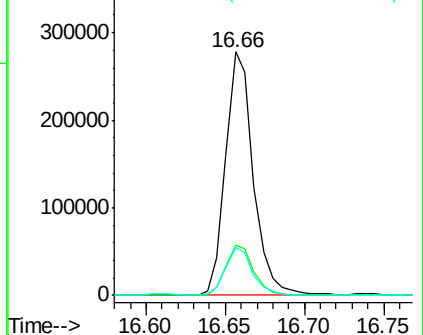
203 19.7 14.4 21.6



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: 8.45 ng

RT: 16.91 min Scan# 2622

Delta R.T. -0.02 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

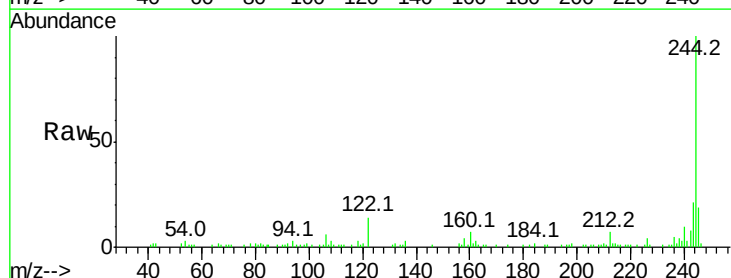
Tgt Ion:244 Resp: 64213

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

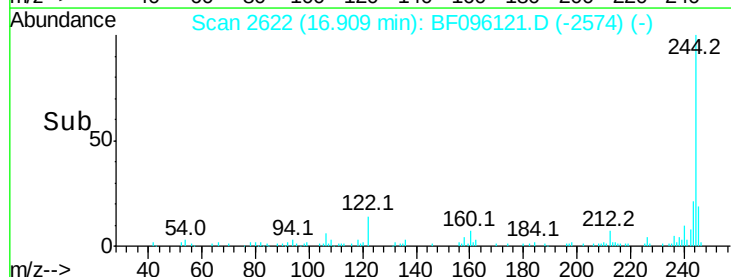
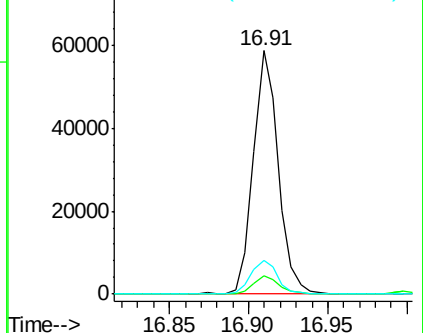
122 13.8 10.3 15.5

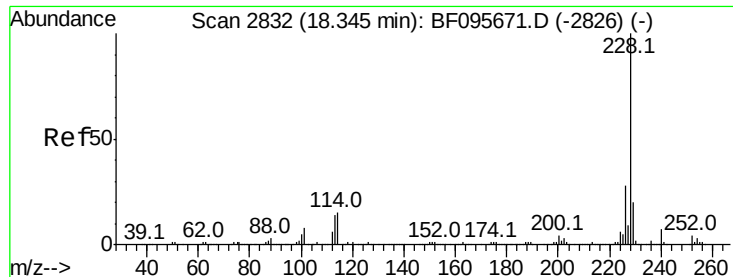


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.03 ng

RT: 18.25 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

Instrument :

BNA_F

ClientSampleId :

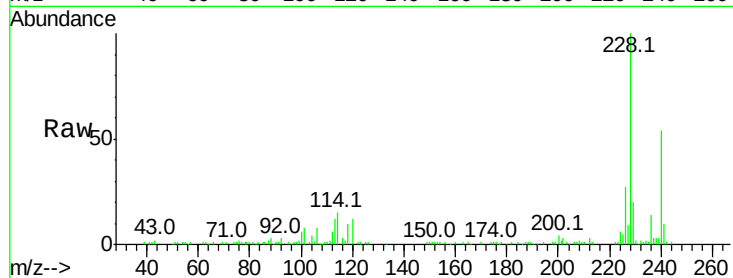
Tot Ion:228 Resp: 88045

Ion Ratio Lower Upper

228 100

226 27.4 22.6 33.8

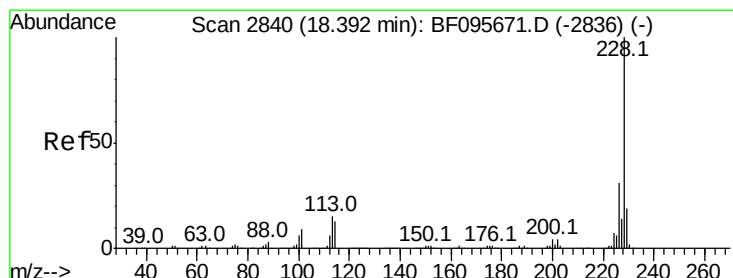
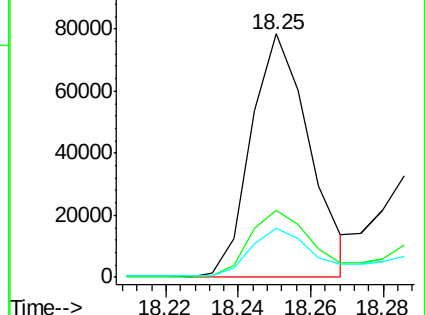
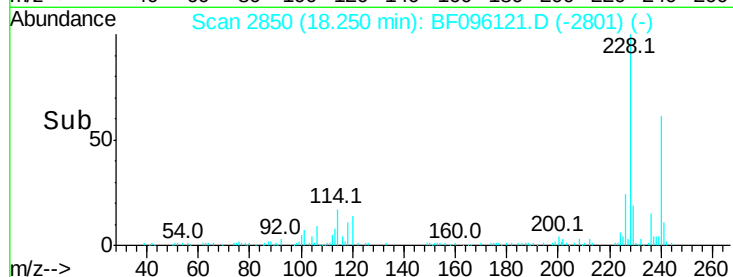
229 20.3 16.3 24.5



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: 10.29 ng

RT: 18.30 min Scan# 2858

Delta R.T. -0.01 min

Lab File: BF096121.D

Acq: 22 Jun 2017 14:40

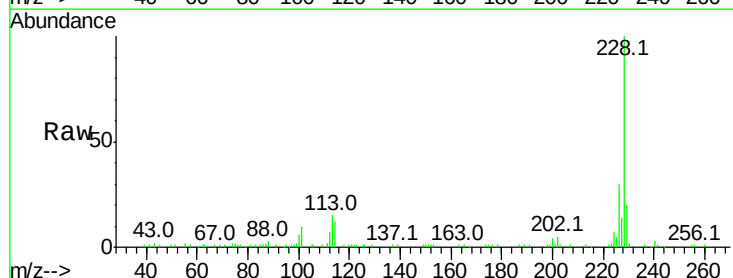
Tgt Ion:228 Resp: 112690

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

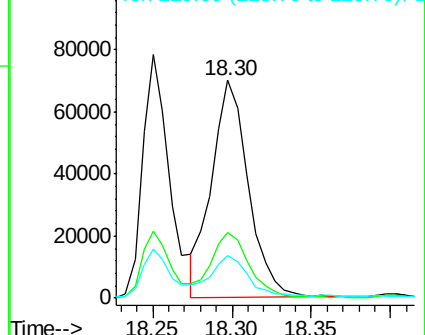
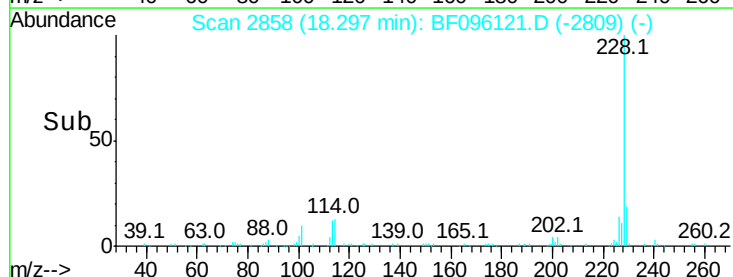
229 19.5 15.8 23.6

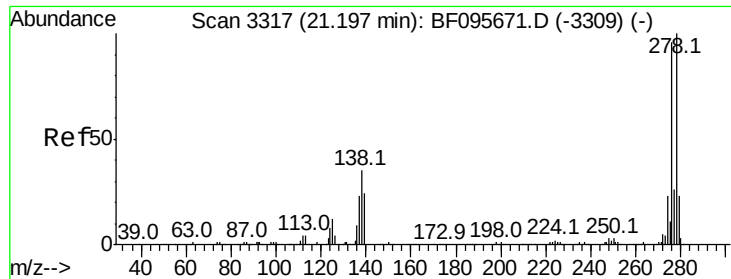


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

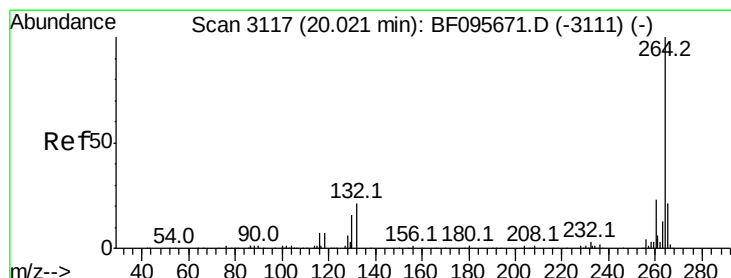
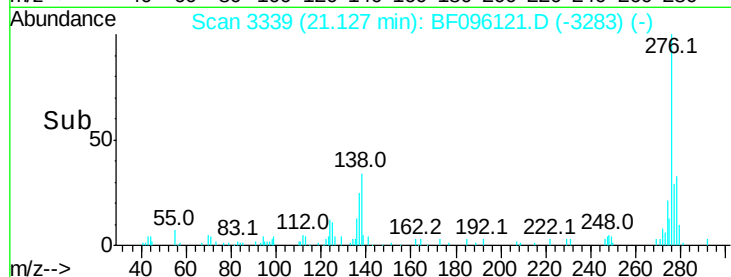
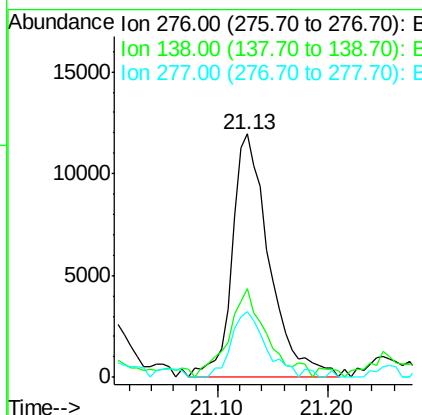
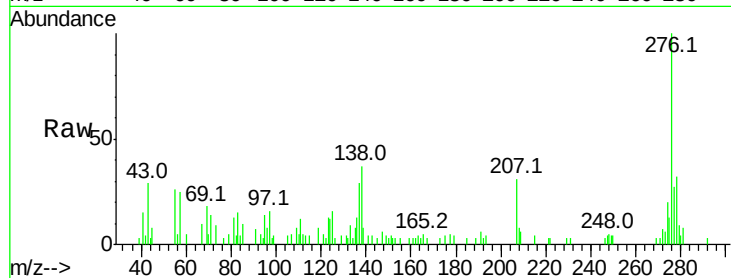




#85
Indeno(1,2,3-cd)pyrene
Concen: 3.00 ng
RT: 21.13 min Scan# 3339
Delta R.T. 0.03 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

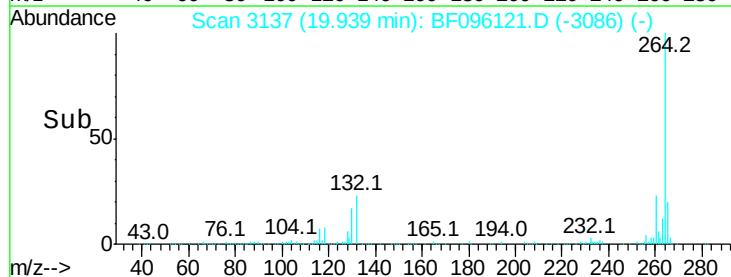
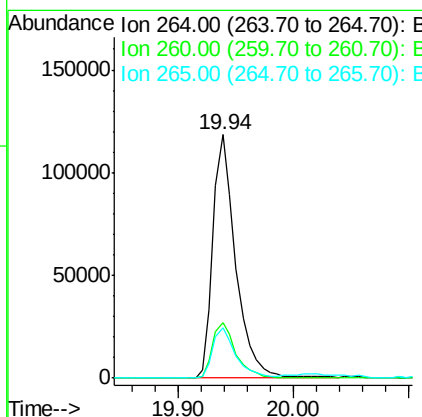
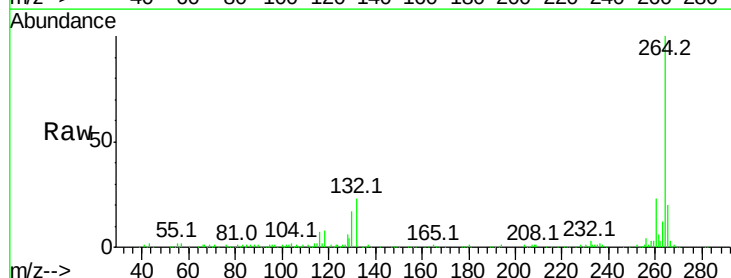
Instrument :
BNA_F
ClientSampleId :

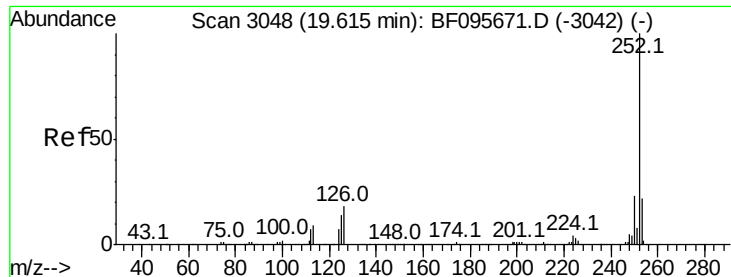
Tot Ion:276 Resp: 28149
Ion Ratio Lower Upper
276 100
138 37.0 27.8 41.6
277 24.9 20.2 30.4



#86
Perylene-d12
Concen: 20.00 ng
RT: 19.94 min Scan# 3137
Delta R.T. 0.00 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion:264 Resp: 162644
Ion Ratio Lower Upper
264 100
260 22.8 19.5 29.3
265 20.5 17.2 25.8

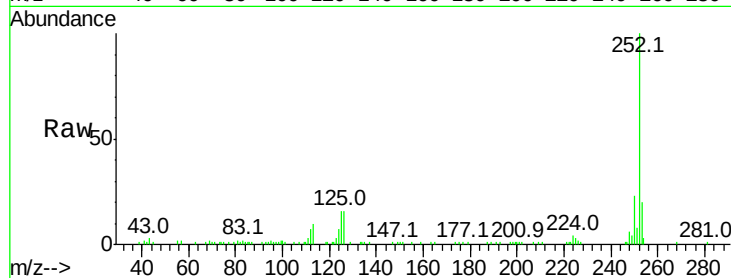




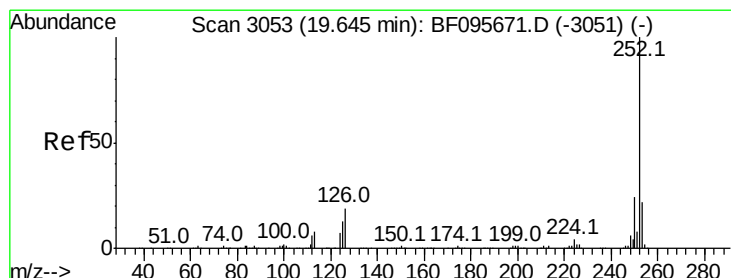
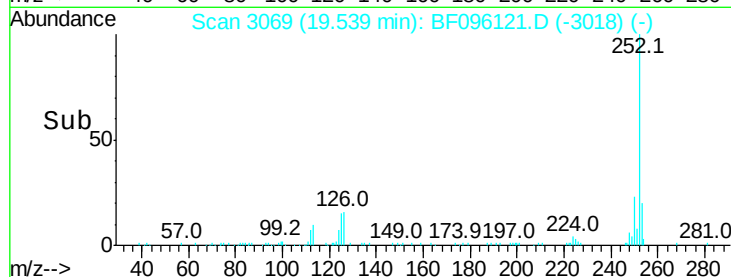
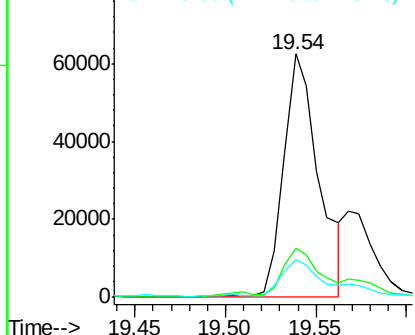
#87
Benzo(b)fluoranthene
Concen: 8.37 ng
RT: 19.54 min Scan# 3069
Delta R.T. 0.00 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 85224
Ion Ratio Lower Upper
252 100
253 20.0 18.1 27.1
125 15.7 9.8 14.8#

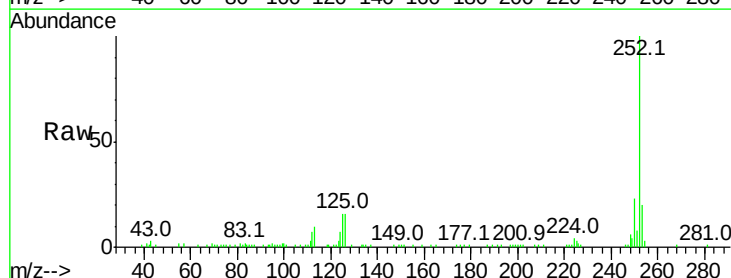


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

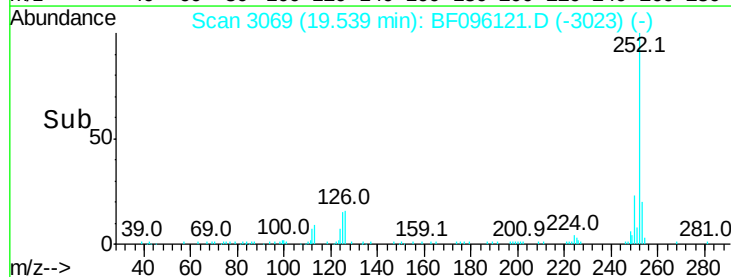
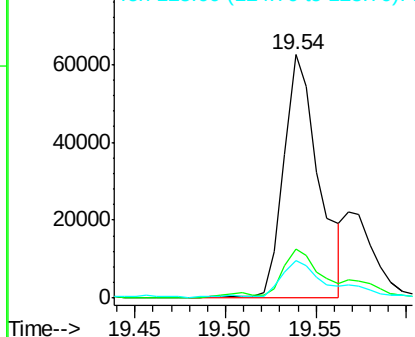


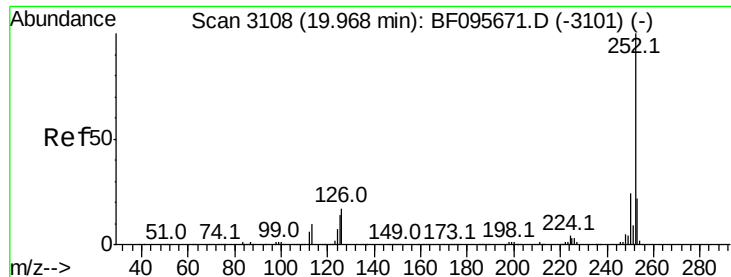
#88
Benzo(k)fluoranthene
Concen: 8.75 ng
RT: 19.54 min Scan# 3069
Delta R.T. -0.03 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion:252 Resp: 85224
Ion Ratio Lower Upper
252 100
253 20.0 18.4 27.6
125 15.7 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

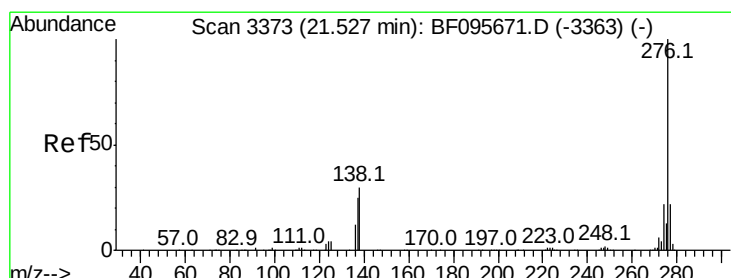
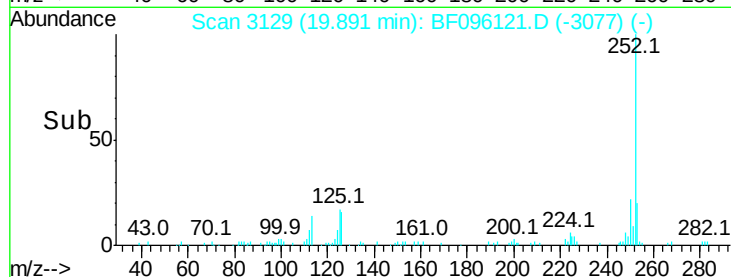
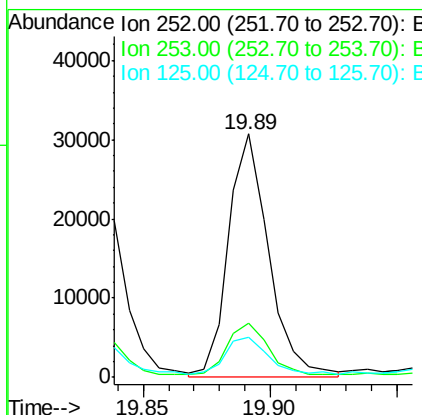
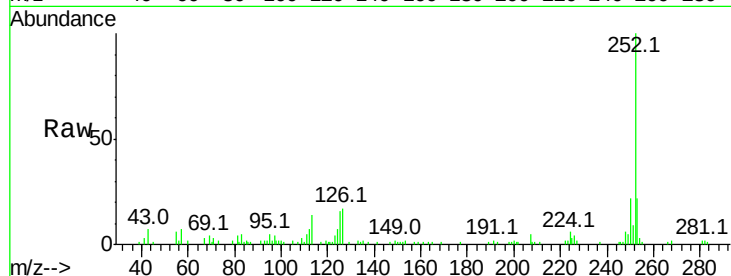




#89
Benzo(a)pyrene
Concen: 3.64 ng
RT: 19.89 min Scan# 3129
Delta R.T. 0.01 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.5	26.3
125	16.4	11.0	16.4



#91
Benzo(g,h,i)perylene
Concen: 2.65 ng
RT: 21.46 min Scan# 3396
Delta R.T. 0.04 min
Lab File: BF096121.D
Acq: 22 Jun 2017 14:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	21.8	18.6	28.0
138	33.5	25.4	38.0

