

Data Path : Z:\HPCHEM1\BNA F\Data\BF030118\
 Data File : BF103329.D
 Acq On : 1 Mar 2018 11:55
 Operator : SJ/JU
 Sample : J1709-01
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 01 12:40:10 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 17:05:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.875	152	161997	20.00	ng	0.00
21) Naphthalene-d8	8.157	136	655606	20.00	ng	0.00
38) Acenaphthene-d10	9.916	164	287102	20.00	ng	0.00
63) Phenanthrene-d10	11.410	188	464019	20.00	ng	0.00
75) Chrysene-d12	14.062	240	219976	20.00	ng	0.00
86) Perylene-d12	15.568	264	270366	20.00	ng	0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.504	112	1037528	96.87	ng	0.01
7) Phenol-d6	6.510	99	1310272	99.97	ng	0.00
23) Nitrobenzene-d5	7.439	82	799128	69.61	ng	0.00
41) 2,4,6-Tribromophenol	10.710	330	194860	80.18	ng	0.00
44) 2-Fluorobiphenyl	9.227	172	1027433	56.82	ng	0.00
78) Terphenyl-d14	12.992	244	647978	70.81	ng	0.00

Target Compounds

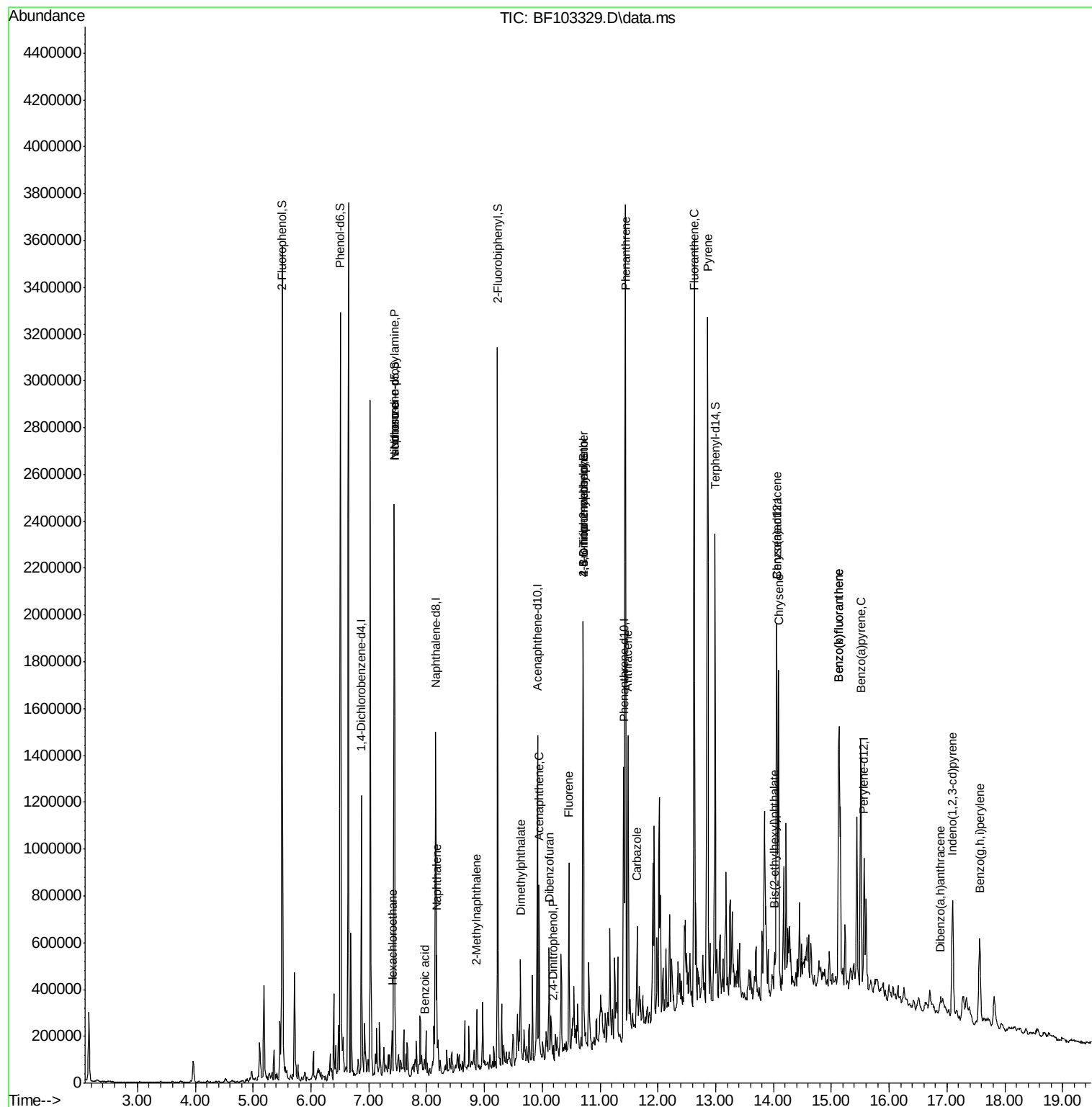
						Qvalue
18) Hexachloroethane	7.398	117	13916	3.00	ng	# 1
19) n-Nitroso-di-n-propyla...	7.439	70	106355	13.04	ng	# 81
25) Isophorone	7.439	82	794995	35.16	ng	# 64
31) Naphthalene	8.175	128	176370	5.49	ng	99
32) Benzoic acid	7.957	122	3489	7.36	ng	# 1
37) 2-Methylnaphthalene	8.869	142	71519	3.45	ng	96
49) Dimethylphthalate	9.622	163	118713	5.15	ng	99
51) Acenaphthene	9.945	154	134975	7.90	ng	98
53) 2,4-Dinitrophenol	10.192	184	111	9.68	ng	# 23
54) Dibenzofuran	10.116	168	148355	6.33	ng	92
57) Fluorene	10.463	166	204586	10.25	ng	97
64) 4,6-Dinitro-2-methylph...	10.704	198	412	5.08	ng	# 1
66) 4-Bromophenyl-phenylether	10.710	248	13346	2.76	ng	# 1
70) Phenanthrene	11.439	178	1494995	58.54	ng	99
71) Anthracene	11.480	178	488566	18.66	ng	99
72) Carbazole	11.639	167	154997	5.94	ng	98
74) Fluoranthene	12.633	202	1528190	59.55	ng	99
77) Pyrene	12.863	202	1371614	79.97	ng	100
80) Benzo(a)anthracene	14.051	228	643654	45.10	ng	98
82) Chrysene	14.092	228	561169	40.49	ng	97
83) Bis(2-ethylhexyl)phtha...	14.015	149	43877	3.59	ng	# 97
85) Indeno(1,2,3-cd)pyrene	17.098	276	321108	29.27	ng	96
87) Benzo(b)fluoranthene	15.133	252	957035	53.84	ng	# 94
88) Benzo(k)fluoranthene	15.133	252	957035	57.17	ng	97
89) Benzo(a)pyrene	15.509	252	560576	35.31	ng	# 95
90) Dibenzo(a,h)anthracene	16.892	278	54591	4.45	ng	93
91) Benzo(g,h,i)perylene	17.562	276	304190	25.37	ng	96

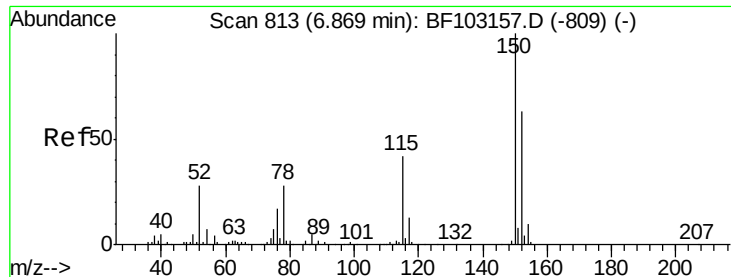
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.875 min Scan# 81

Delta R.T. -0.000 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

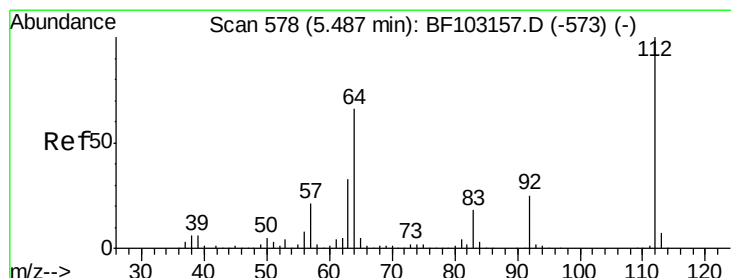
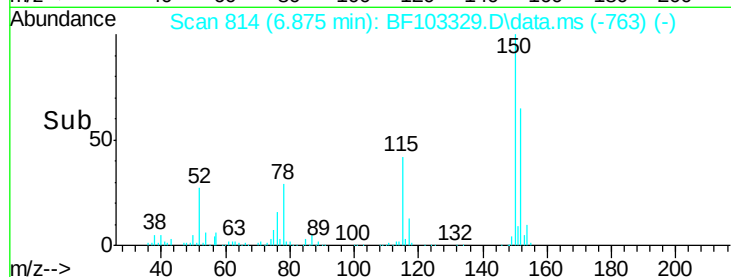
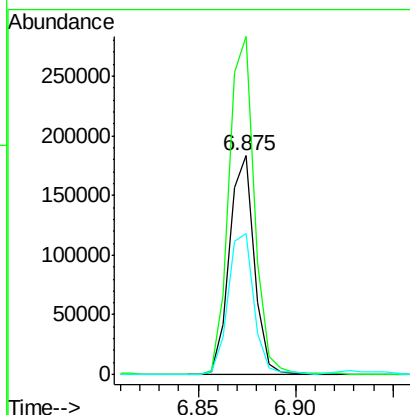
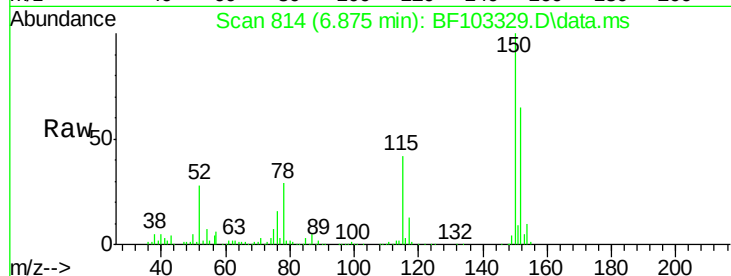
Tot Ion:152 Resp: 161997

Ion Ratio Lower Upper

152 100

150 154.5 124.6 186.8

115 64.6 50.1 75.1



#5

2-Fluorophenol

Concen: 96.87 ng

RT: 5.504 min Scan# 581

Delta R.T. 0.012 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

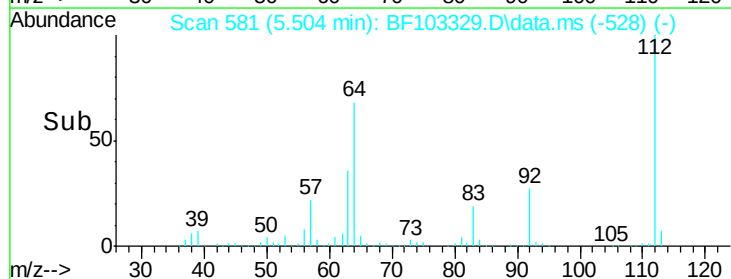
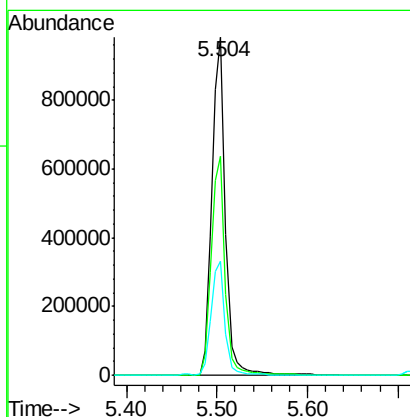
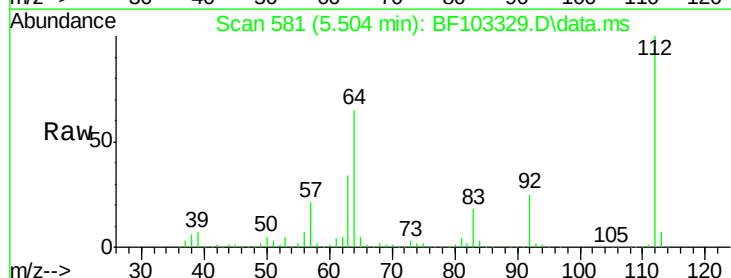
Tgt Ion:112 Resp: 1037528

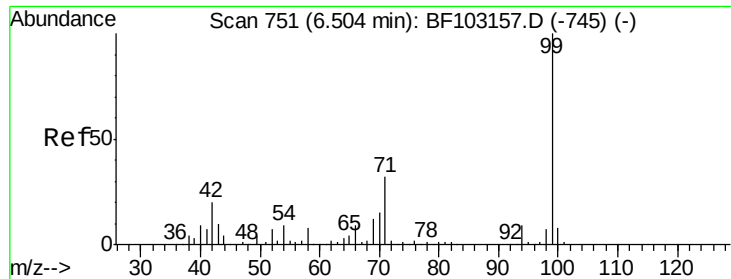
Ion Ratio Lower Upper

112 100

64 64.7 47.9 71.9

63 33.9 23.7 35.5





#7

Phenol-d6

Concen: 99.97 ng

RT: 6.510 min Scan# 751

Delta R.T. -0.000 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

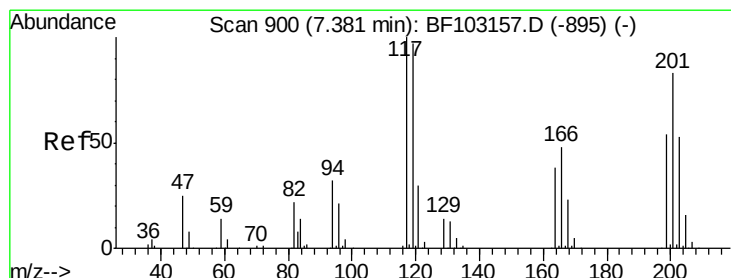
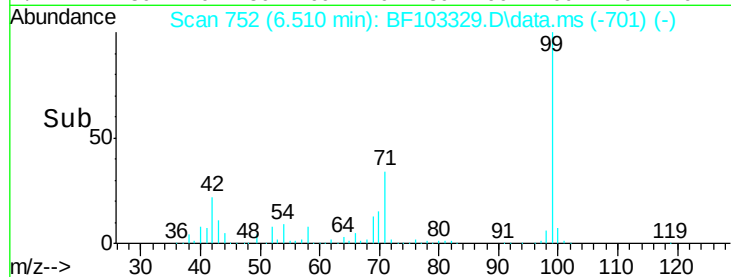
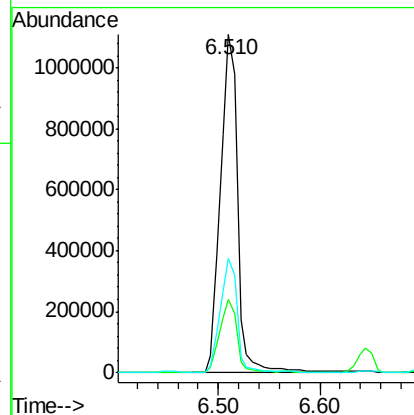
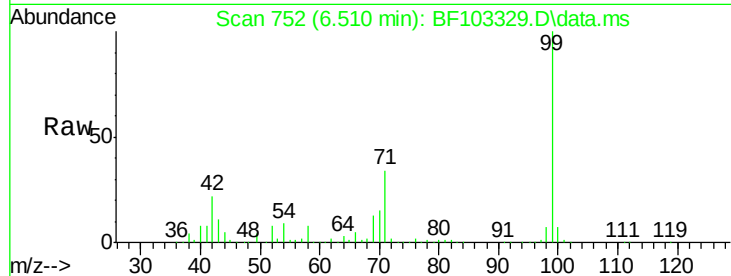
Tot Ion: 99 Resp: 1310272

Ion Ratio Lower Upper

99 100

42 21.7 14.5 21.7

71 33.9 25.4 38.0



#18

Hexachloroethane

Concen: 3.00 ng

RT: 7.398 min Scan# 903

Delta R.T. 0.018 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

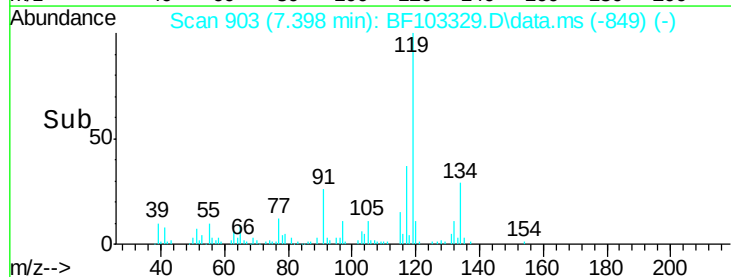
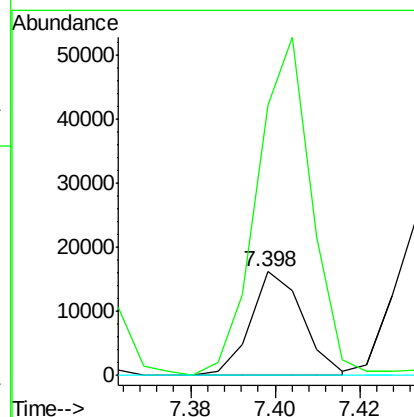
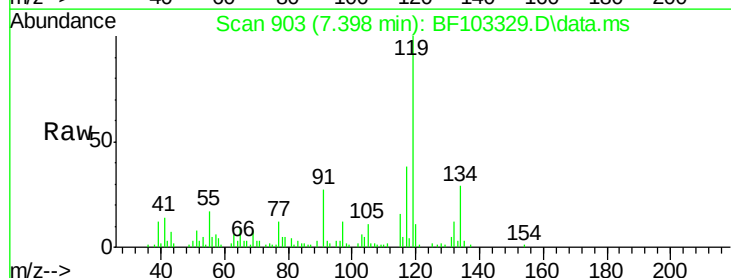
Tgt Ion: 117 Resp: 13916

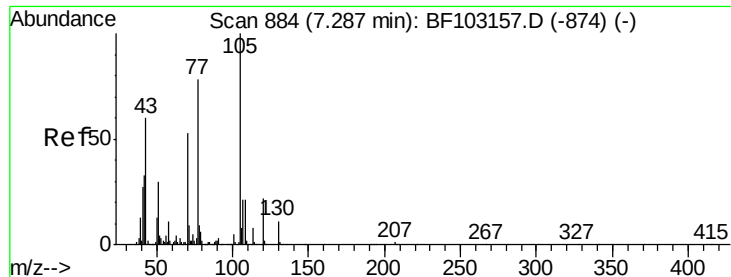
Ion Ratio Lower Upper

117 100

119 262.0 75.8 113.8#

201 0.0 75.7 113.5#

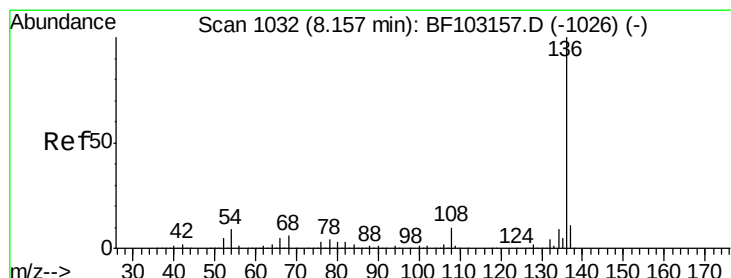
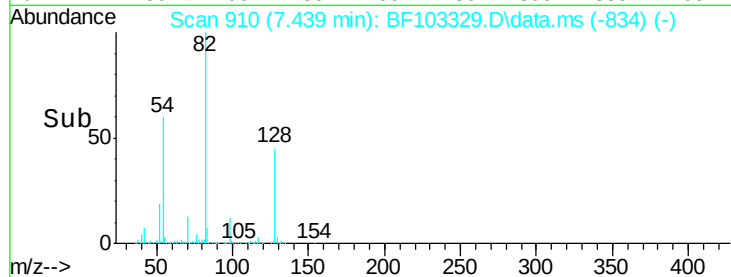
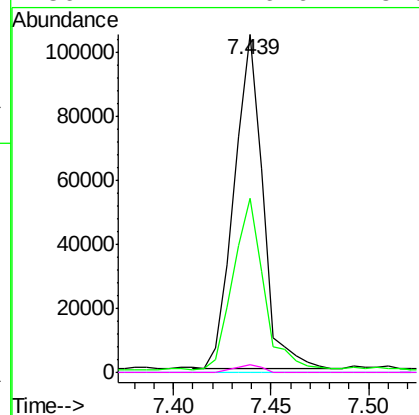
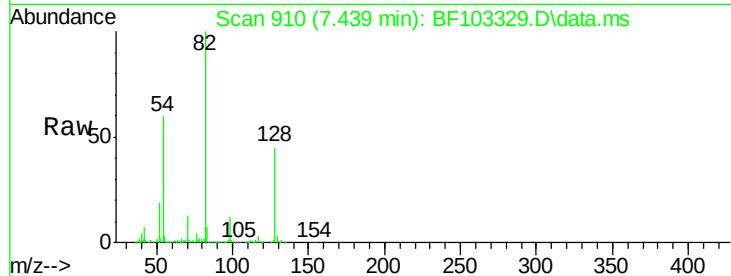




#19
n-Nitroso-di-n-propylamine
Concen: 13.04 ng
RT: 7.439 min Scan# 91
Delta R.T. 0.147 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

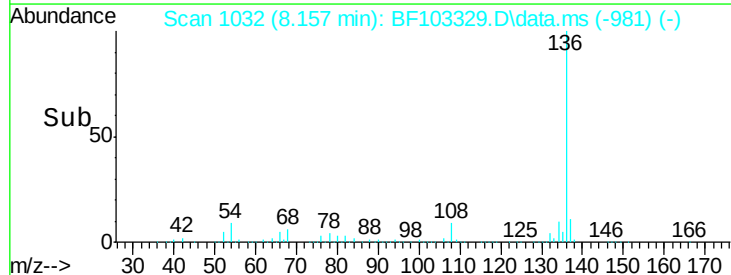
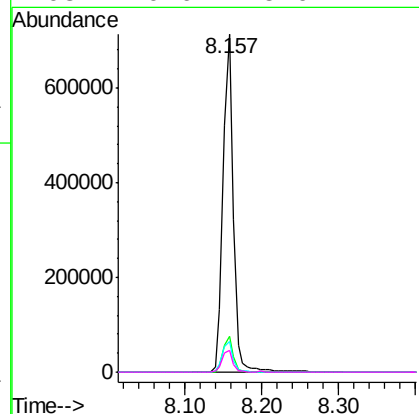
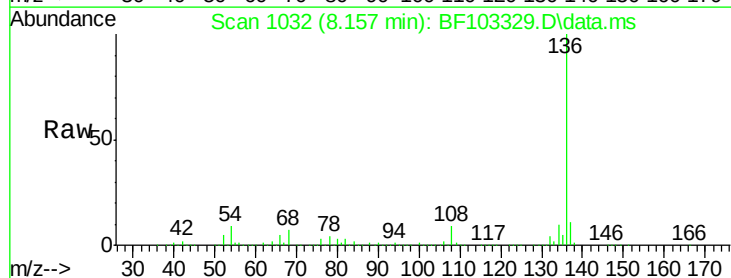
Instrument :
BNA_F
ClientSampleId :

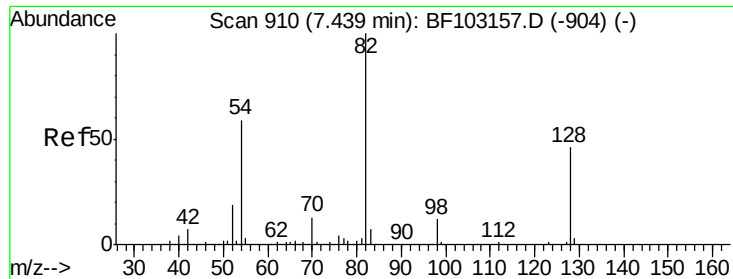
Tot Ion: 70 Resp: 106355
Ion Ratio Lower Upper
70 100
42 51.5 47.5 71.3
101 0.0 7.4 11.2#
130 2.4 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.157 min Scan# 1032
Delta R.T. -0.000 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

Tgt Ion: 136 Resp: 655606
Ion Ratio Lower Upper
136 100
137 10.7 8.9 13.3
54 9.1 6.6 9.8
68 6.6 5.0 7.4

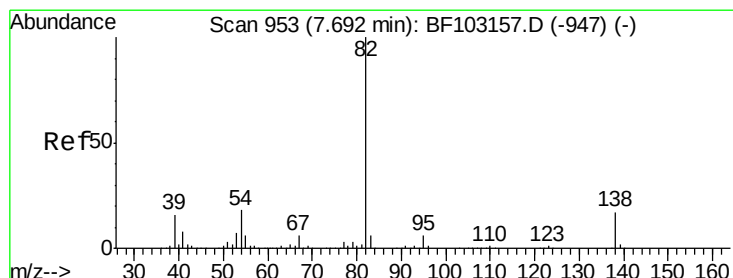
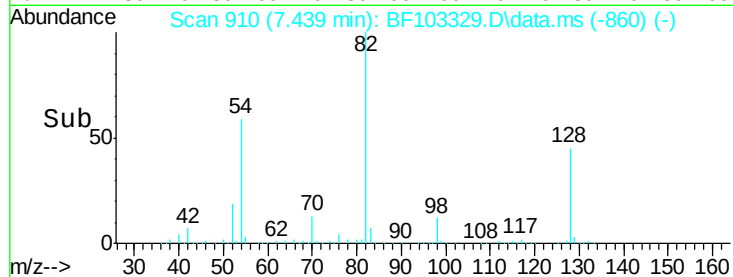
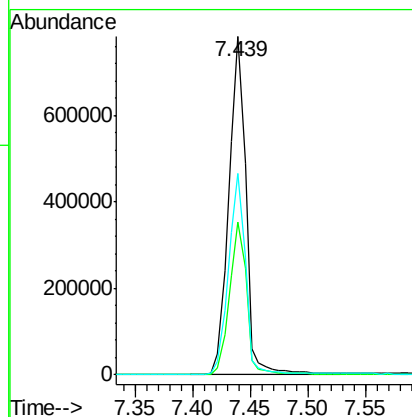
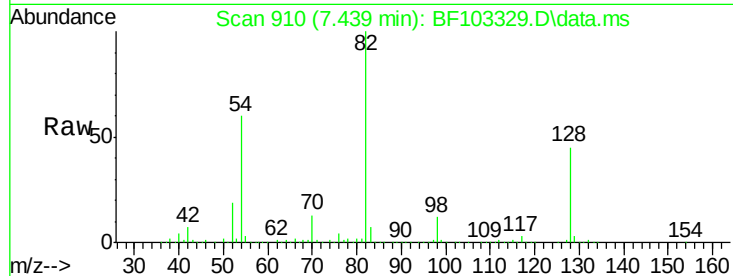




#23
Nitrobenzene-d5
Concen: 69.61 ng
RT: 7.439 min Scan# 910
Delta R.T. -0.006 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

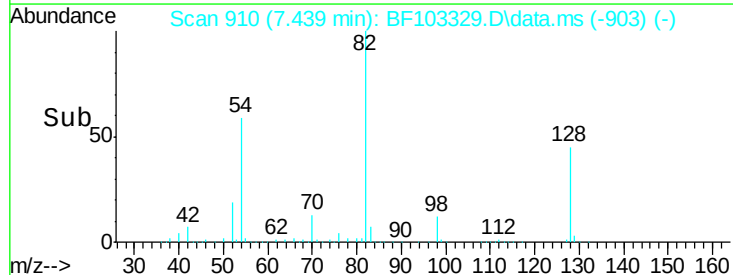
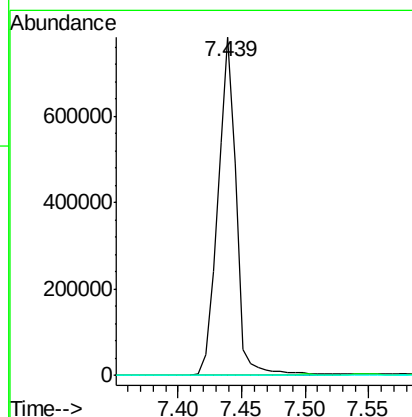
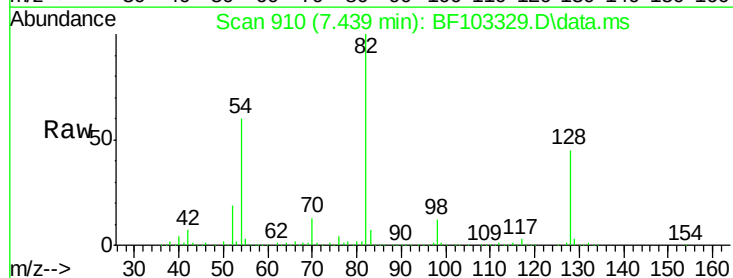
Instrument :
BNA_F
ClientSampleId :

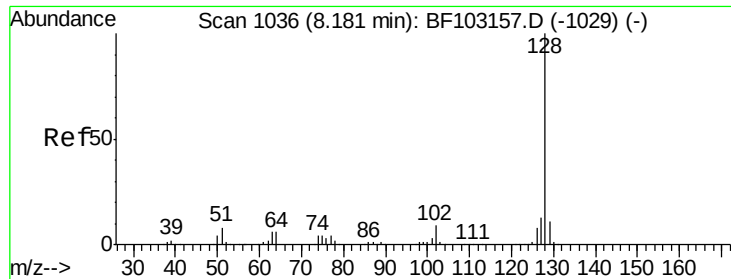
Tot Ion	82	Resp	799128
Ion Ratio	Lower	Upper	
82	100		
128	45.0	36.1	54.1
54	59.5	41.4	62.2



#25
Isophorone
Concen: 35.16 ng
RT: 7.439 min Scan# 910
Delta R.T. -0.259 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

Tgt Ion	82	Resp	794995
Ion Ratio	Lower	Upper	
82	100		
95	0.1	5.2	7.8#
138	0.0	14.9	22.3#

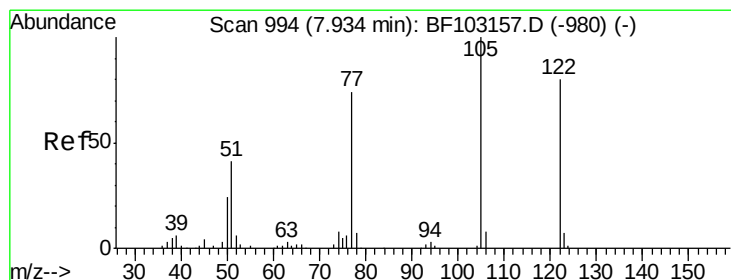
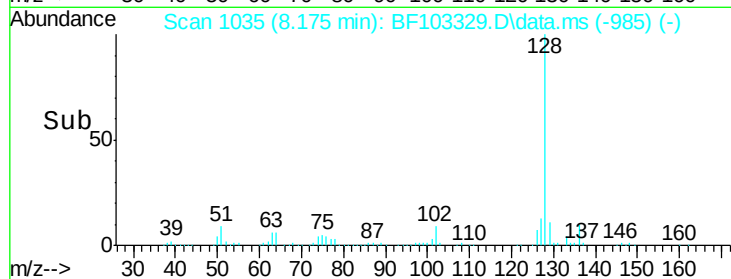
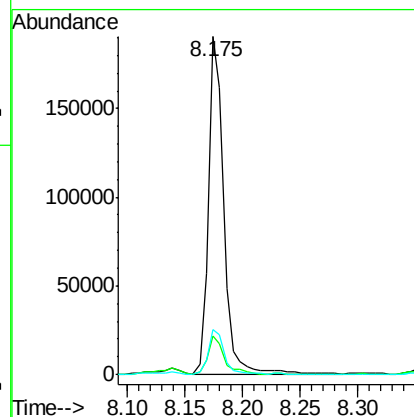
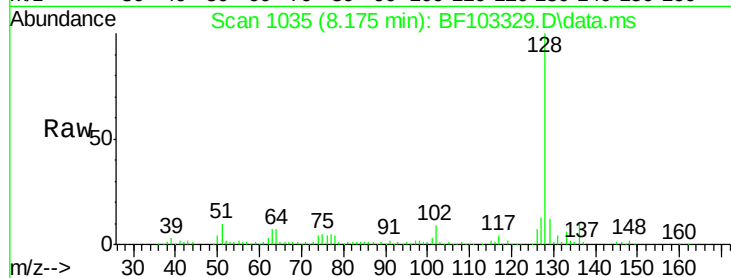




#31
Naphthalene
Concen: 5.49 ng
RT: 8.175 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

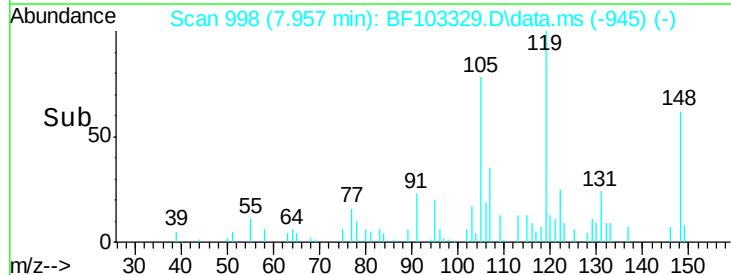
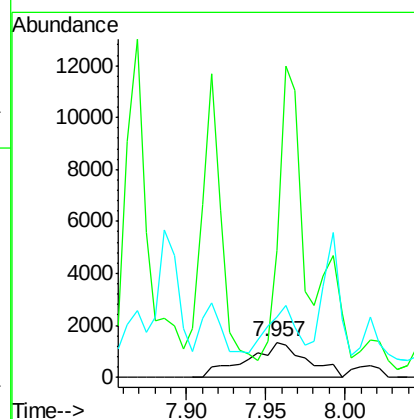
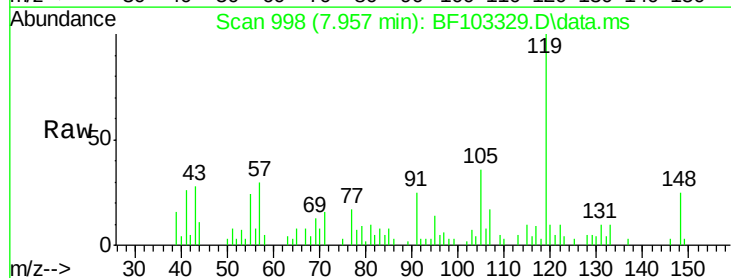
Instrument :
BNA_F
ClientSampleId :

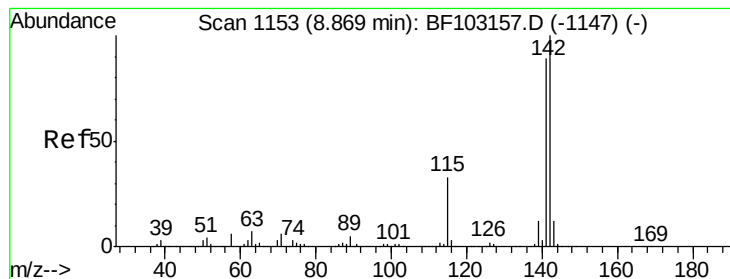
Tot Ion:128 Resp: 176370
Ion Ratio Lower Upper
128 100
129 11.5 8.8 13.2
127 13.4 10.9 16.3



#32
Benzoic acid
Concen: 7.36 ng
RT: 7.957 min Scan# 998
Delta R.T. 0.012 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

Tgt Ion:122 Resp: 3489
Ion Ratio Lower Upper
122 100
105 360.4 101.1 141.1#
77 171.3 70.7 110.7#





#37

2-Methylnaphthalene

Concen: 3.45 ng

RT: 8.869 min Scan# 1153

Delta R.T. -0.000 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

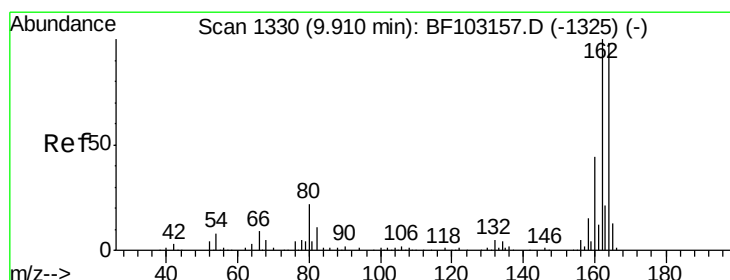
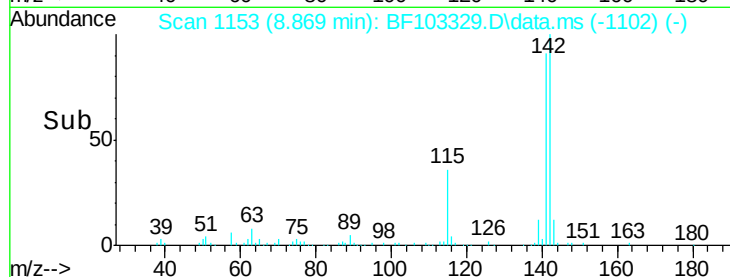
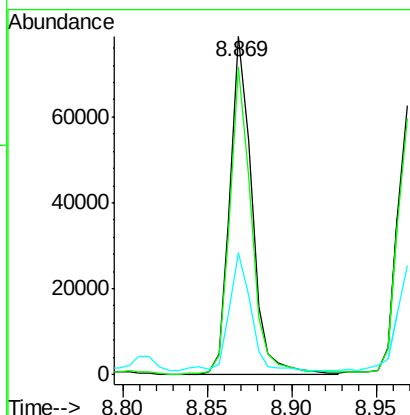
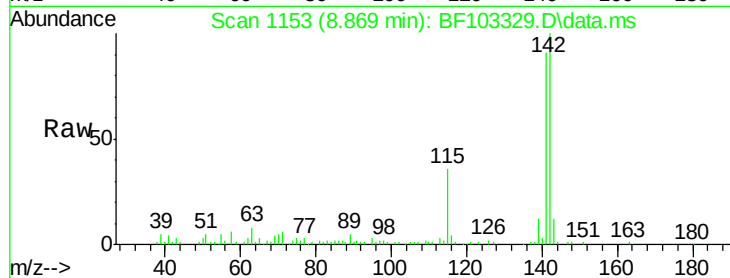
Tot Ion:142 Resp: 71519

Ion Ratio Lower Upper

142 100

141 91.0 70.8 106.2

115 36.1 26.1 39.1



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.916 min Scan# 1331

Delta R.T. -0.000 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

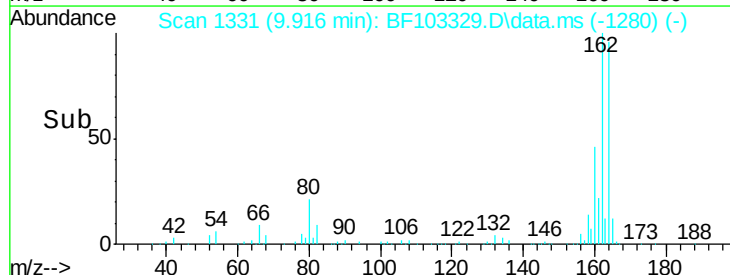
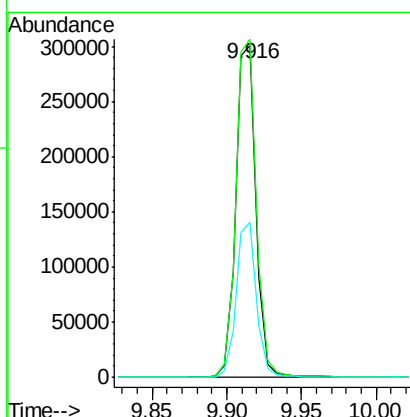
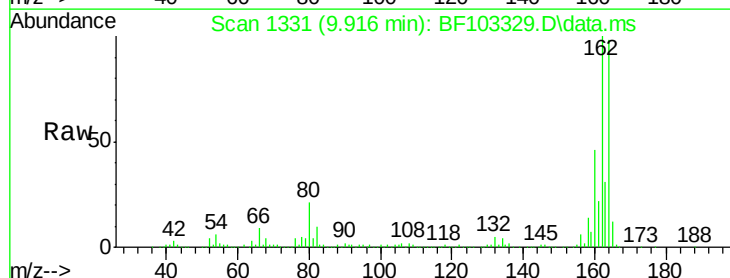
Tgt Ion:164 Resp: 287102

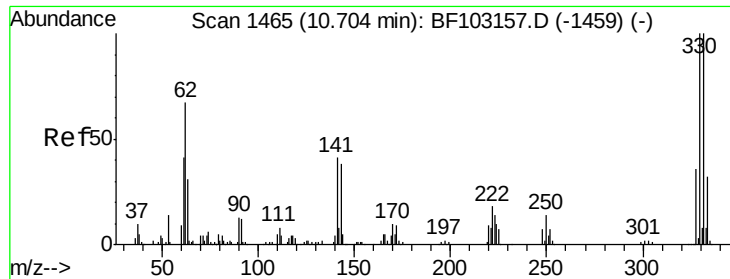
Ion Ratio Lower Upper

164 100

162 102.0 86.1 129.1

160 46.7 38.3 57.5

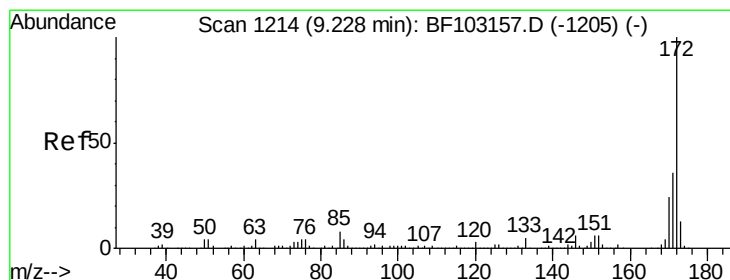
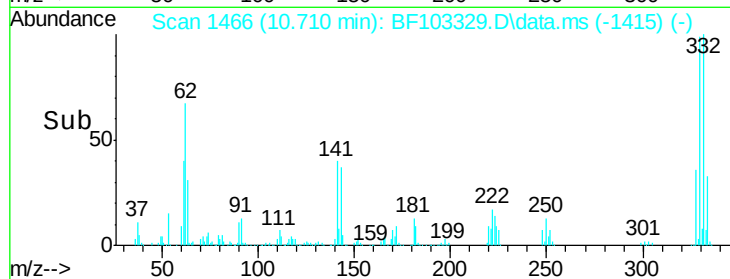
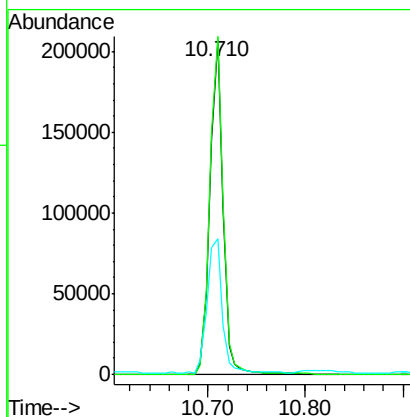
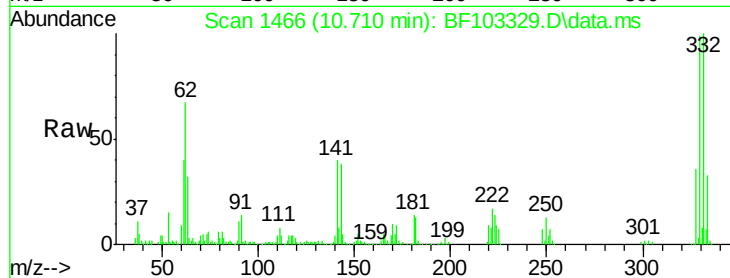




#41
 2,4,6-Tribromophenol
 Concen: 80.18 ng
 RT: 10.710 min Scan# 1466
 Delta R.T. -0.000 min
 Lab File: BF103329.D
 Acq: 1 Mar 2018 11:55

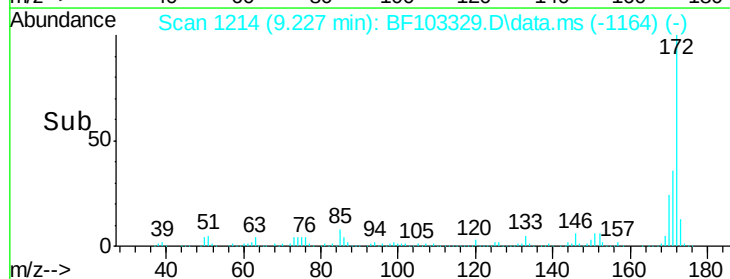
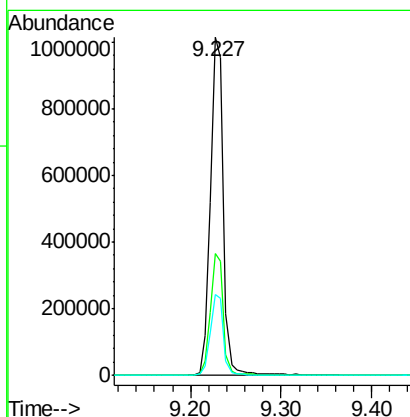
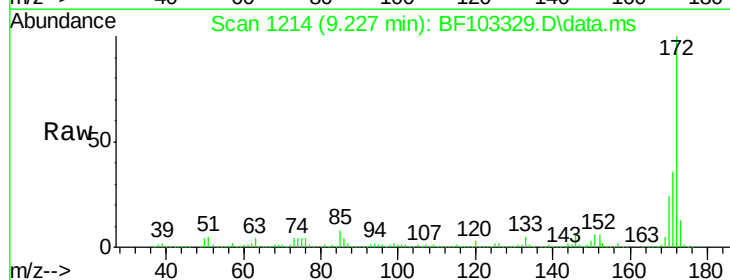
Instrument :
 BNA_F
 ClientSampleId :

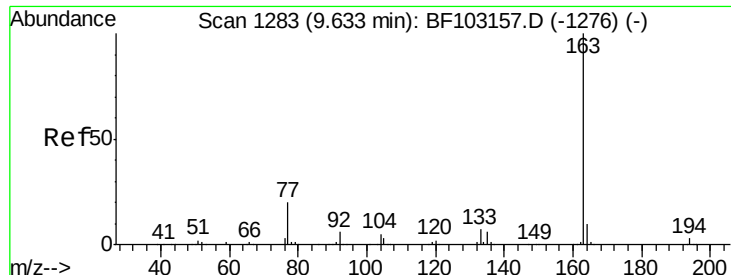
Tot Ion	Ratio	Lower	Upper
330	100		
332	102.6	77.0	115.6
141	47.2	29.9	44.9



#44
 2-Fluorobiphenyl
 Concen: 56.82 ng
 RT: 9.227 min Scan# 1214
 Delta R.T. -0.006 min
 Lab File: BF103329.D
 Acq: 1 Mar 2018 11:55

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.7	44.5
170	23.9	19.6	29.4





#49

Dimethylphthalate

Concen: 5.15 ng

RT: 9.622 min Scan# 1281

Delta R.T. -0.012 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampled :

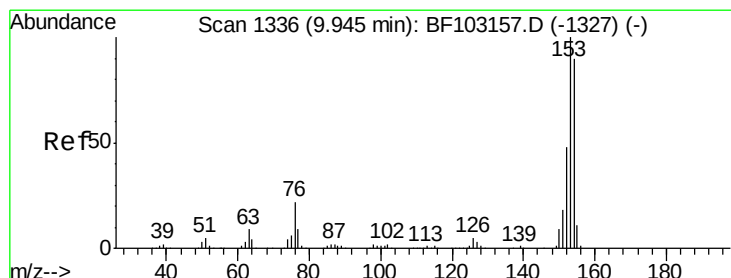
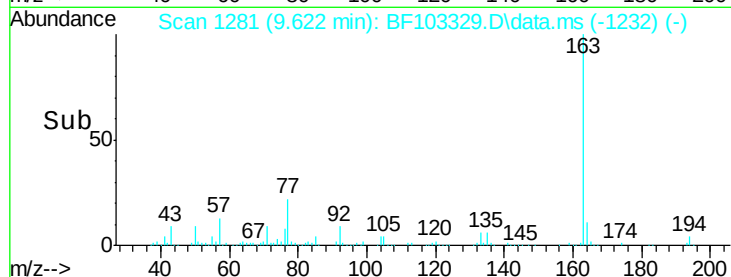
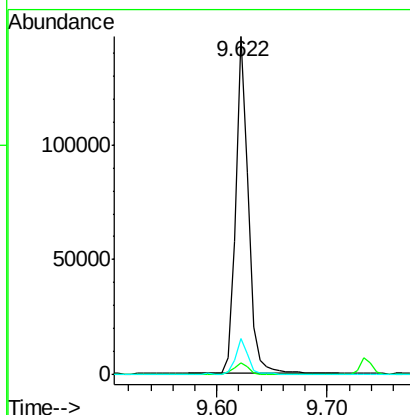
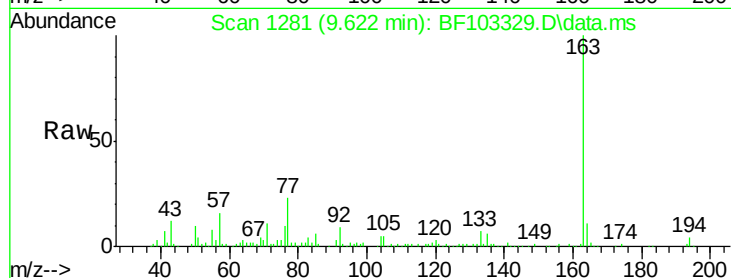
Tot Ion:163 Resp: 118713

Ion Ratio Lower Upper

163 100

194 3.6 2.7 4.1

164 10.6 8.2 12.2



#51

Acenaphthene

Concen: 7.90 ng

RT: 9.945 min Scan# 1336

Delta R.T. -0.006 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

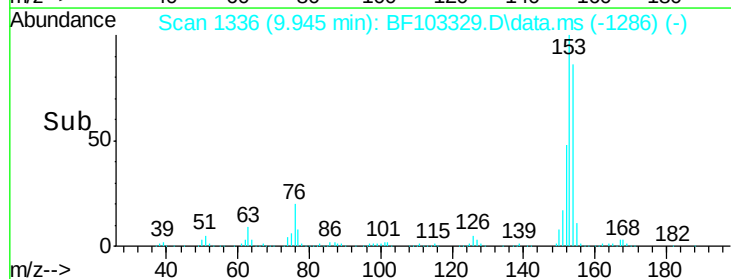
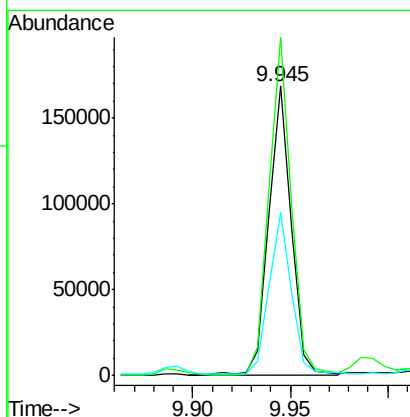
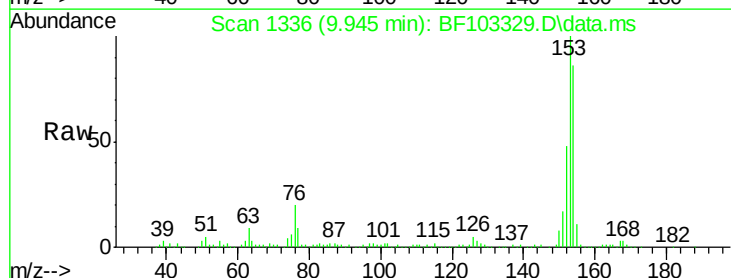
Tgt Ion:154 Resp: 134975

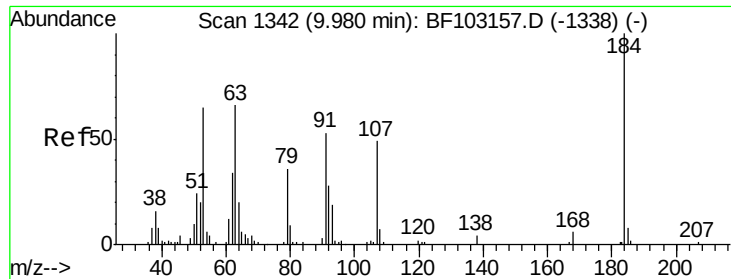
Ion Ratio Lower Upper

154 100

153 116.8 91.2 136.8

152 56.1 43.8 65.8

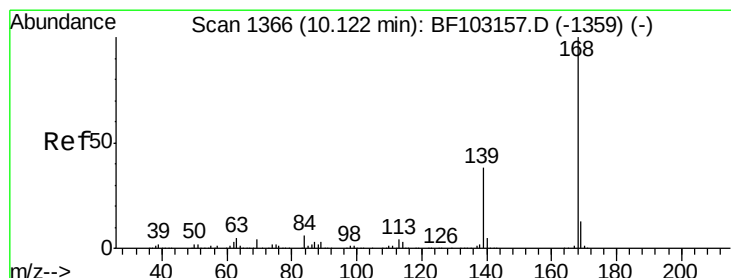
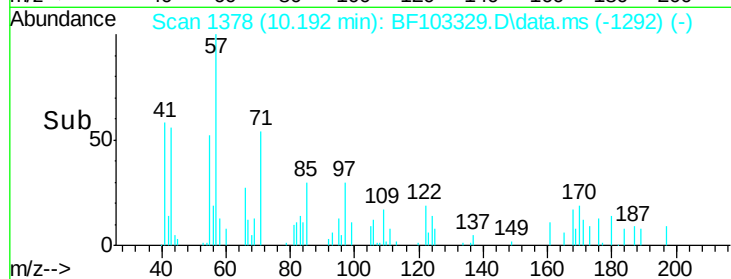
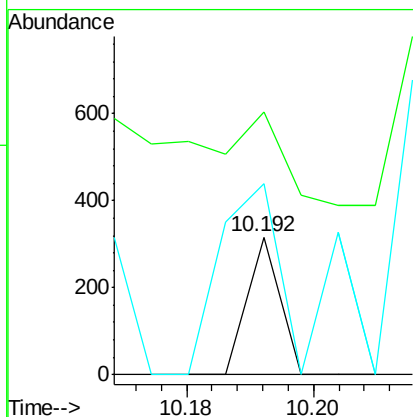
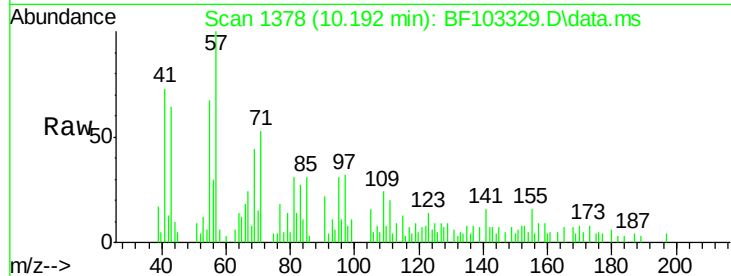




#53
2,4-Dinitrophenol
Concen: 9.68 ng
RT: 10.192 min Scan# 1337
Delta R.T. 0.206 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

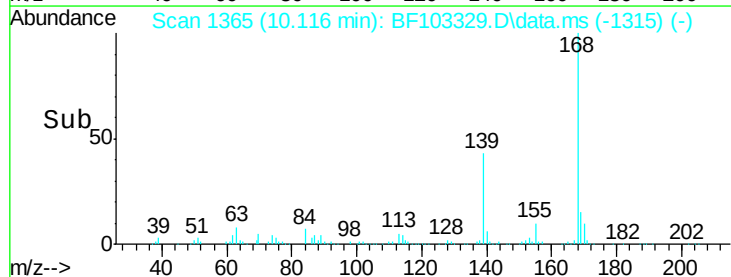
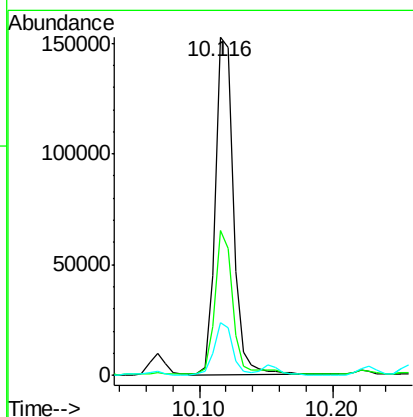
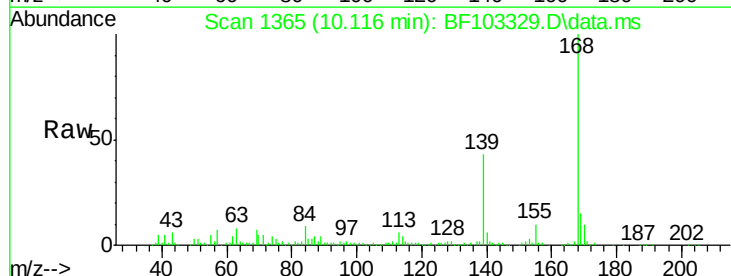
Instrument :
BNA_F
ClientSampled :

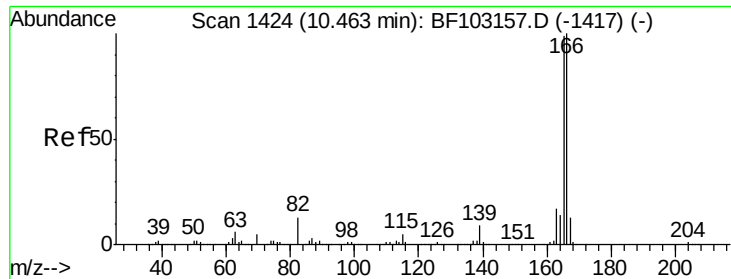
Tot Ion:184 Resp: 111
Ion Ratio Lower Upper
184 100
63 191.1 54.2 81.2#
154 138.9 184.0 276.0#



#54
Dibenzofuran
Concen: 6.33 ng
RT: 10.116 min Scan# 1365
Delta R.T. -0.006 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

Tgt Ion:168 Resp: 148355
Ion Ratio Lower Upper
168 100
139 43.0 30.1 45.1
169 15.4 10.9 16.3

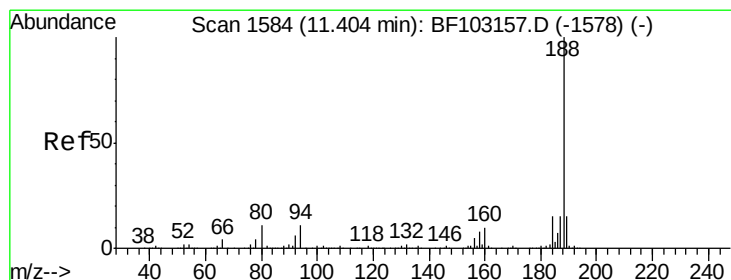
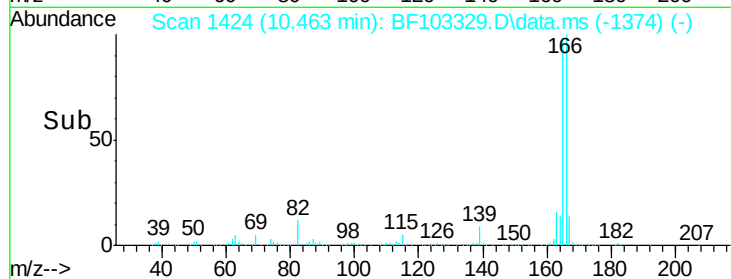
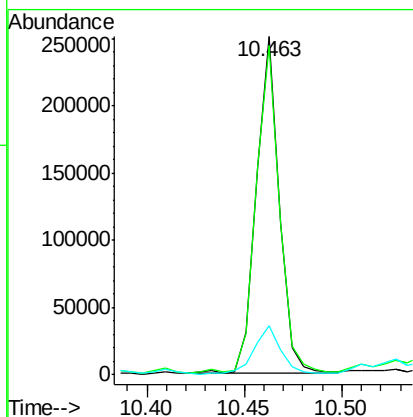
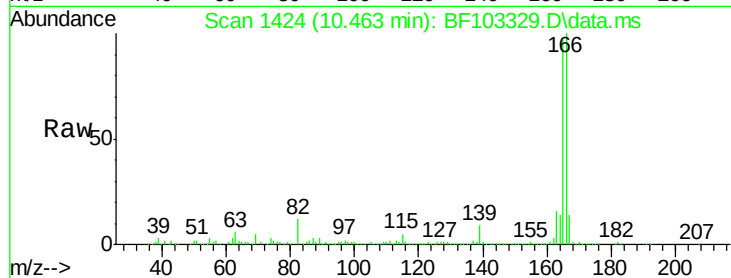




#57
 Fluorene
 Concen: 10.25 ng
 RT: 10.463 min Scan# 1417
 Delta R.T. -0.006 min
 Lab File: BF103329.D
 Acq: 1 Mar 2018 11:55

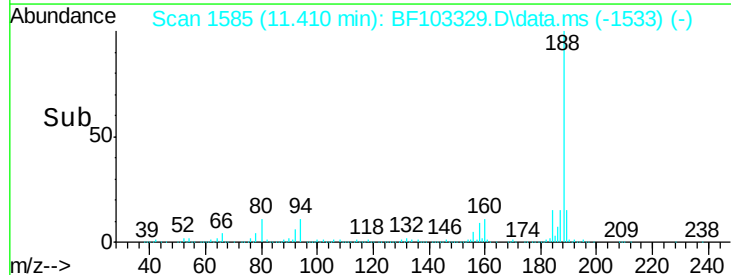
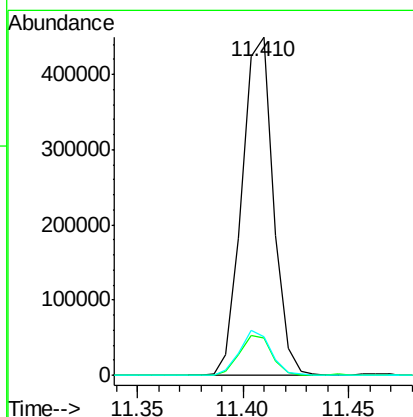
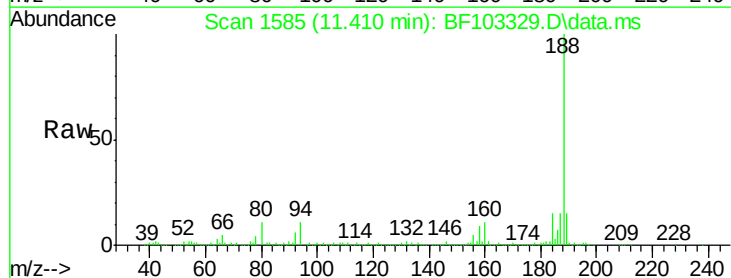
Instrument :
 BNA_F
 ClientSampleId :

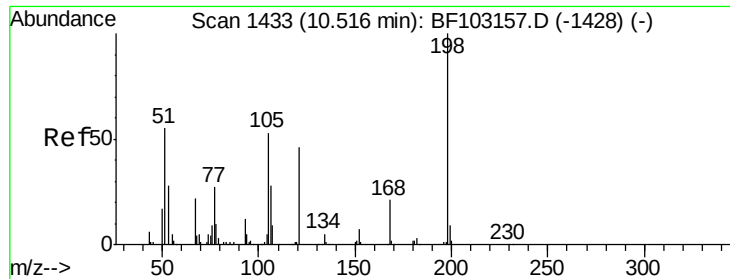
Tot Ion	Ratio	Lower	Upper
166	100		
165	97.2	79.8	119.8
167	14.3	10.6	16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.410 min Scan# 1585
 Delta R.T. 0.006 min
 Lab File: BF103329.D
 Acq: 1 Mar 2018 11:55

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.1	8.5	12.7
80	11.3	9.2	13.8

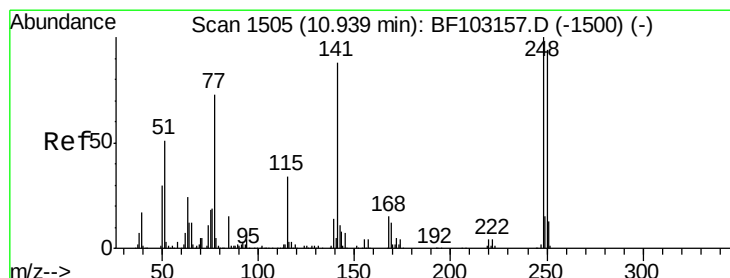
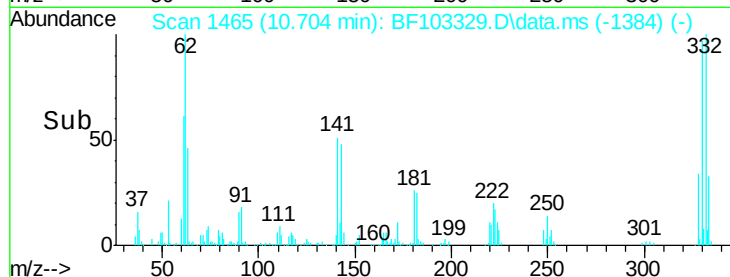
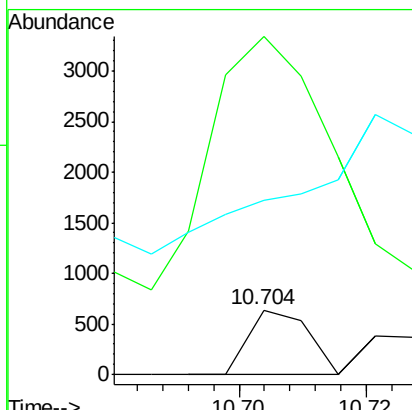
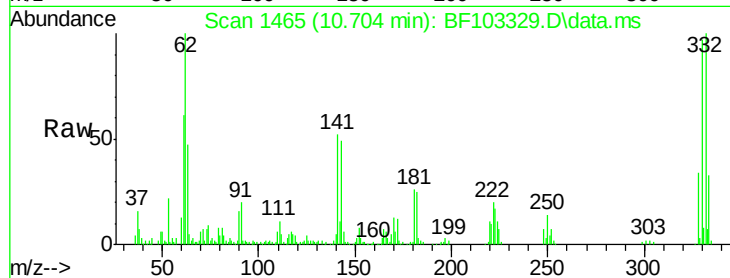




#64
4,6-Dinitro-2-methylphenol
Concen: 5.08 ng
RT: 10.704 min Scan# 1433
Delta R.T. 0.176 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

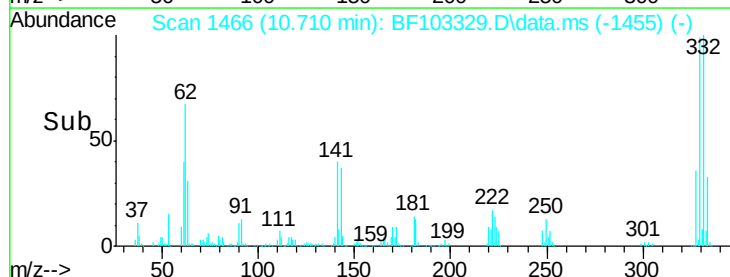
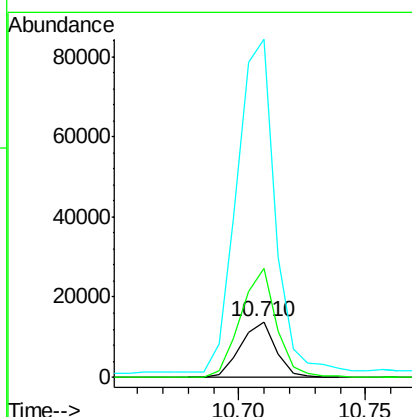
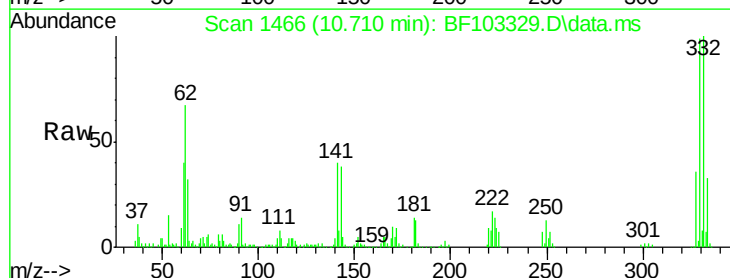
Instrument :
BNA_F
ClientSampleId :

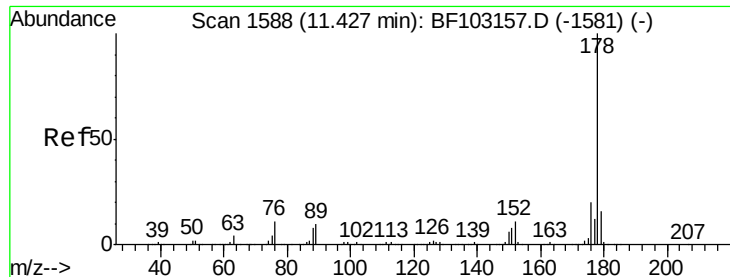
Tot Ion:198 Resp: 412
Ion Ratio Lower Upper
198 100
51 526.1 37.7 77.7#
105 271.5 36.3 76.3#



#66
4-Bromophenyl-phenylether
Concen: 2.76 ng
RT: 10.710 min Scan# 1466
Delta R.T. -0.235 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

Tgt Ion:248 Resp: 13346
Ion Ratio Lower Upper
248 100
250 197.5 76.9 115.3#
141 612.2 74.4 111.6#





#70

Phenanthrene

Concen: 58.54 ng

RT: 11.439 min Scan# 1588

Delta R.T. 0.006 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

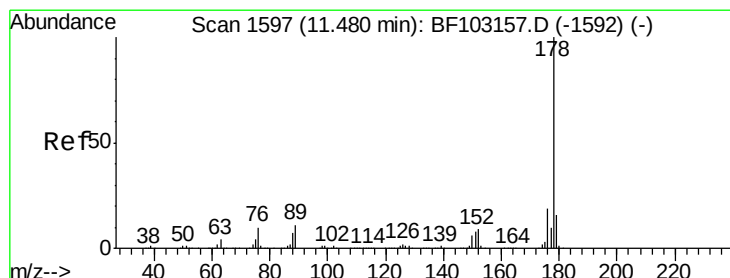
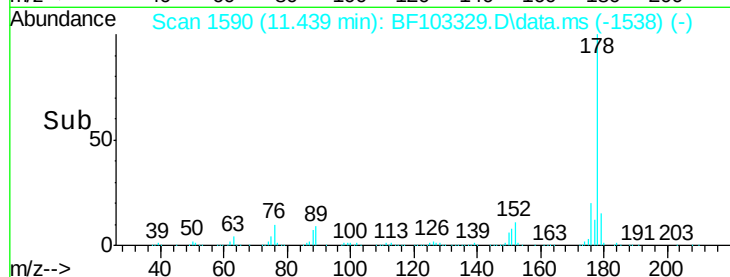
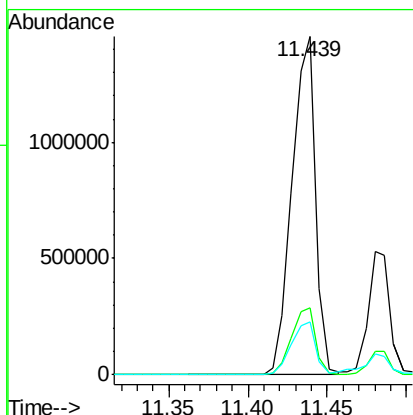
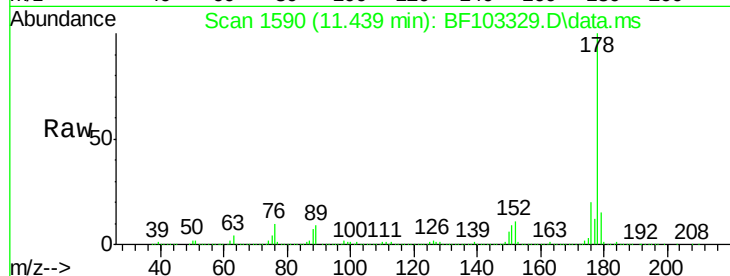
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 1494995

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	15.5	13.0	19.6



#71

Anthracene

Concen: 18.66 ng

RT: 11.480 min Scan# 1597

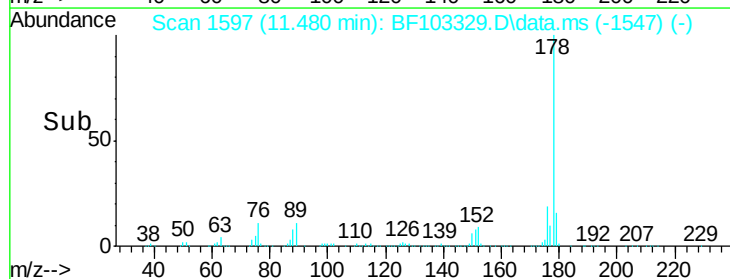
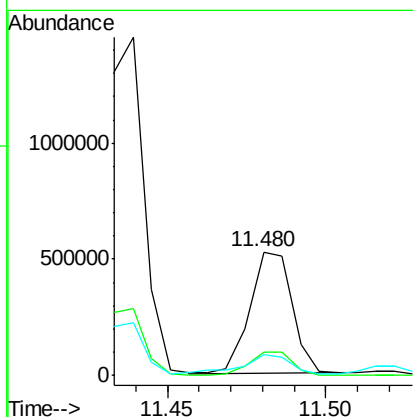
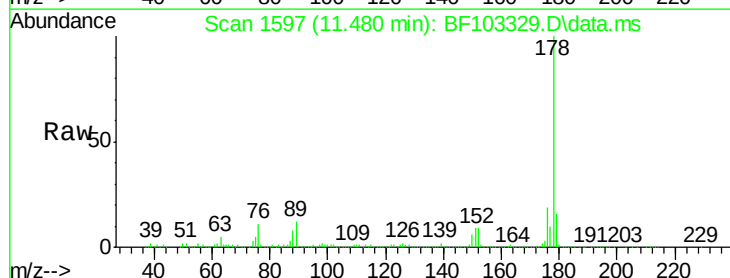
Delta R.T. -0.006 min

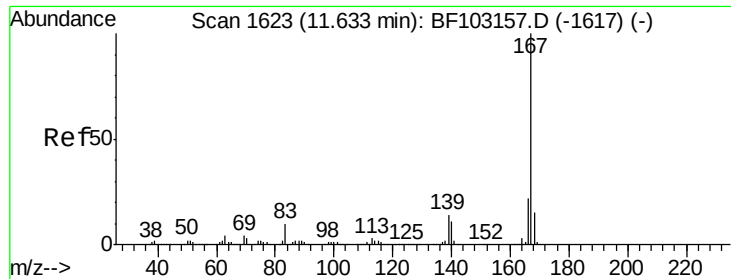
Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Tgt Ion:178 Resp: 488566

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.4	23.2
179	16.2	12.6	19.0

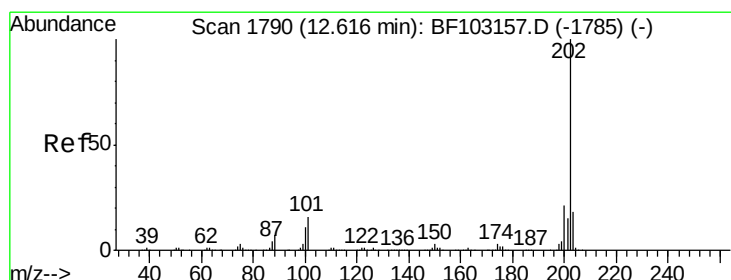
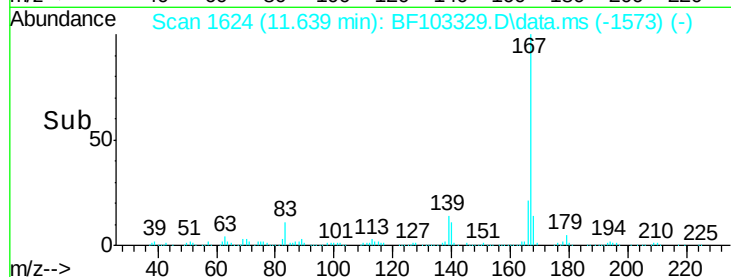
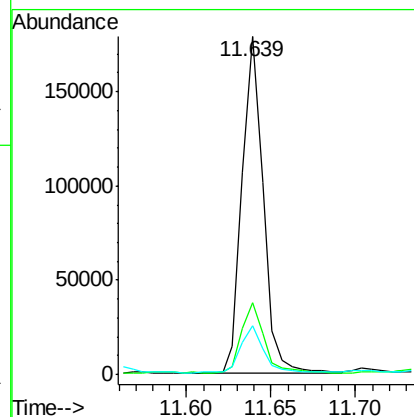
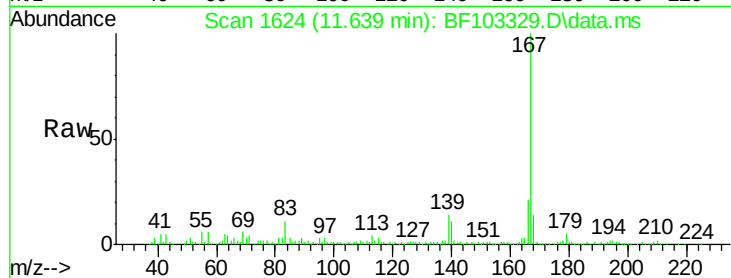




#72
 Carbazole
 Concen: 5.94 ng
 RT: 11.639 min Scan# 161
 Delta R.T. -0.000 min
 Lab File: BF103329.D
 Acq: 1 Mar 2018 11:55

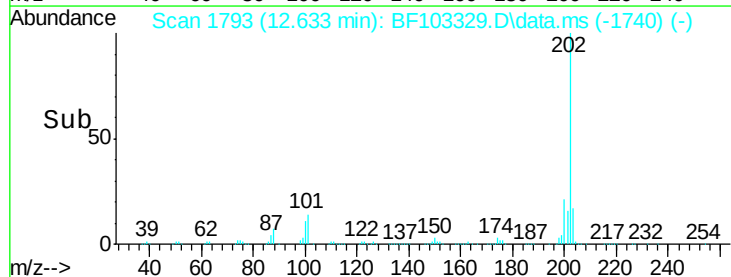
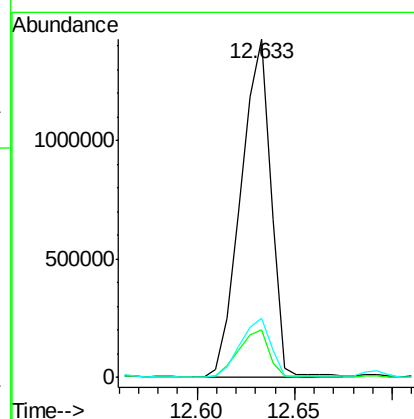
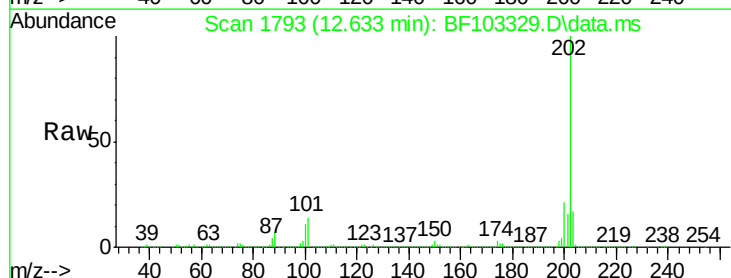
Instrument :
 BNA_F
 ClientSampleId :

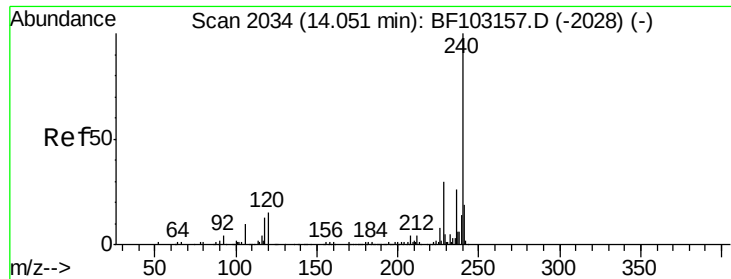
Tot Ion	Ratio	Lower	Upper
167	100		
166	21.4	17.6	26.4
139	14.5	10.9	16.3



#74
 Fluoranthene
 Concen: 59.55 ng
 RT: 12.633 min Scan# 1793
 Delta R.T. 0.012 min
 Lab File: BF103329.D
 Acq: 1 Mar 2018 11:55

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.062 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampled :

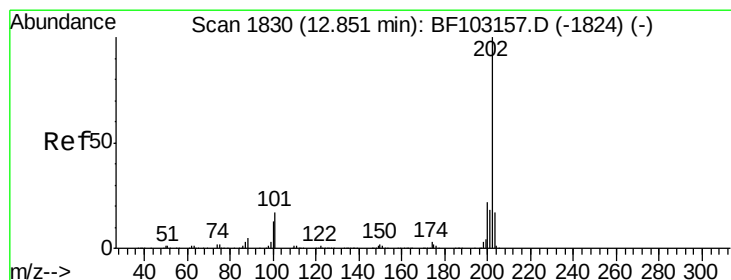
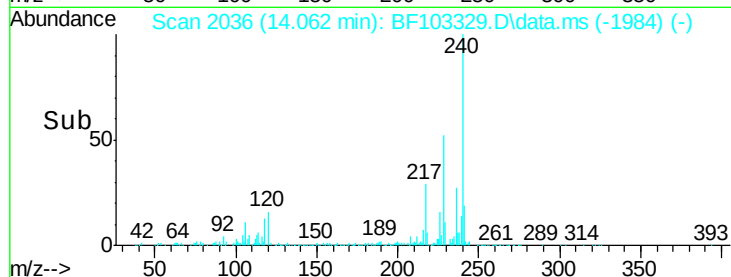
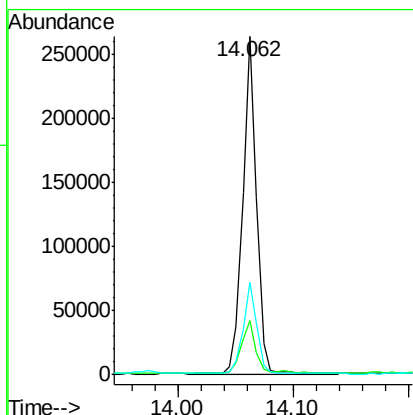
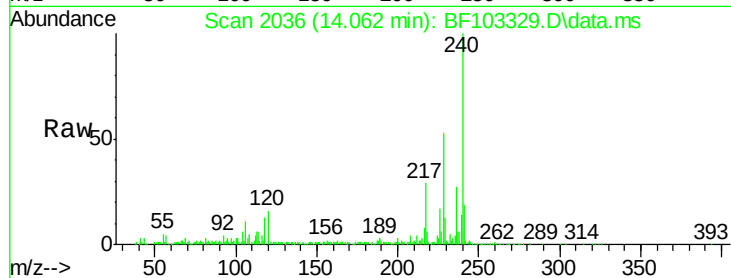
Tot Ion:240 Resp: 219976

Ion Ratio Lower Upper

240 100

120 16.1 9.5 14.3#

236 27.4 20.7 31.1



#77

Pyrene

Concen: 79.97 ng

RT: 12.863 min Scan# 1832

Delta R.T. 0.006 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

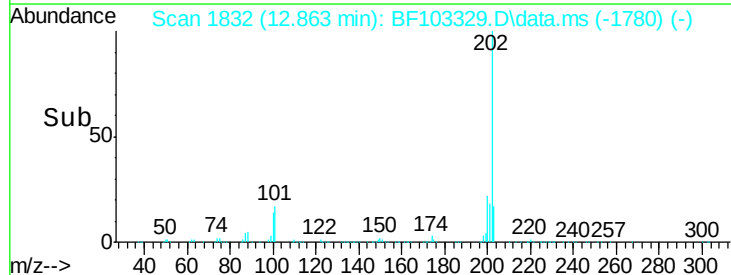
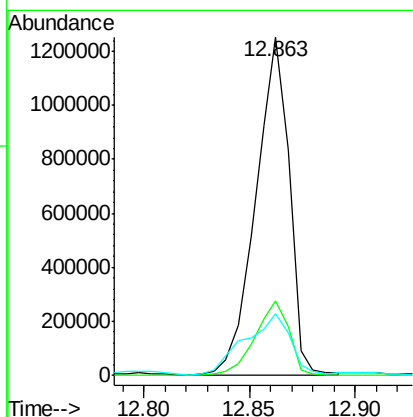
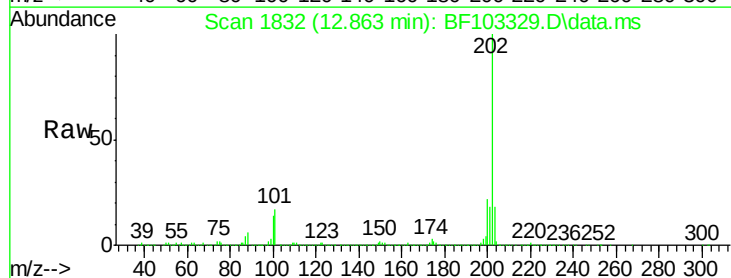
Tgt Ion:202 Resp: 1371614

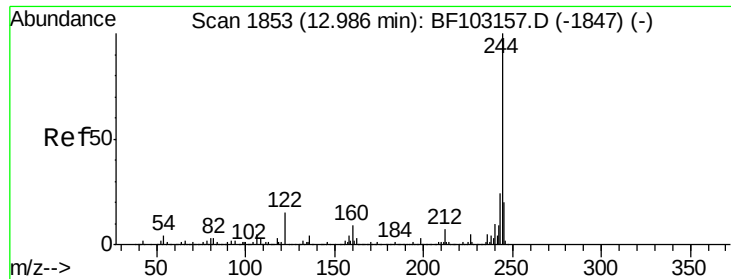
Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

203 18.1 14.3 21.5





#78

Terphenyl-d14

Concen: 70.81 ng

RT: 12.992 min Scan# 18

Delta R.T. -0.000 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

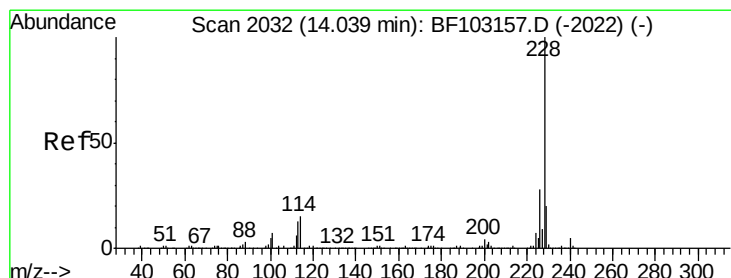
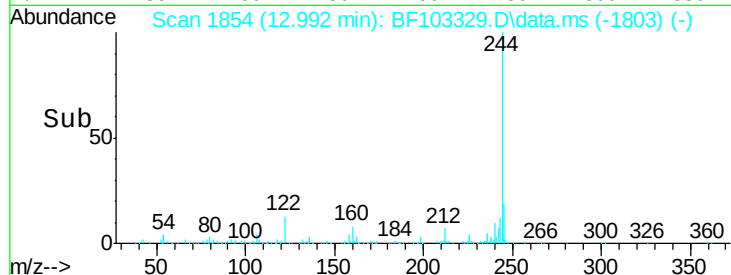
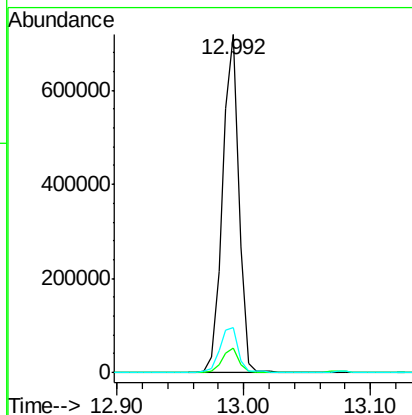
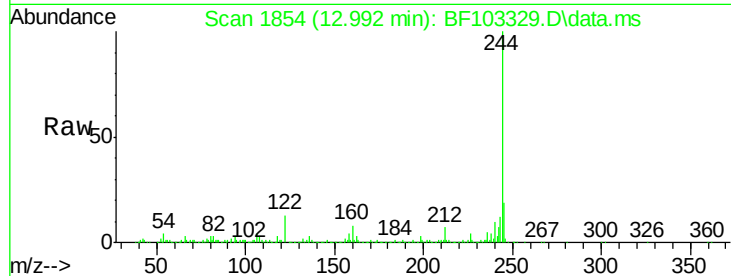
Tot Ion:244 Resp: 647978

Ion Ratio Lower Upper

244 100

212 7.3 5.4 8.0

122 13.5 11.0 16.4



#80

Benzo(a)anthracene

Concen: 45.10 ng

RT: 14.051 min Scan# 2034

Delta R.T. 0.006 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

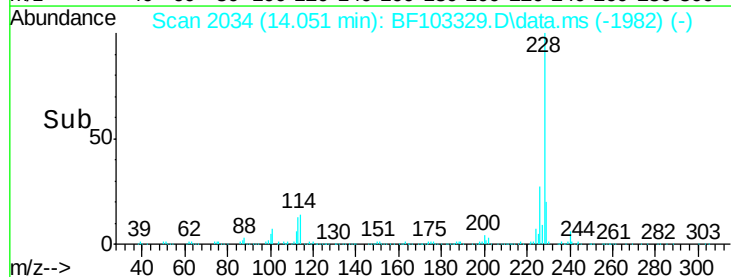
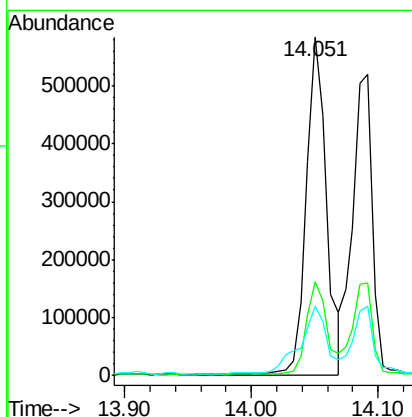
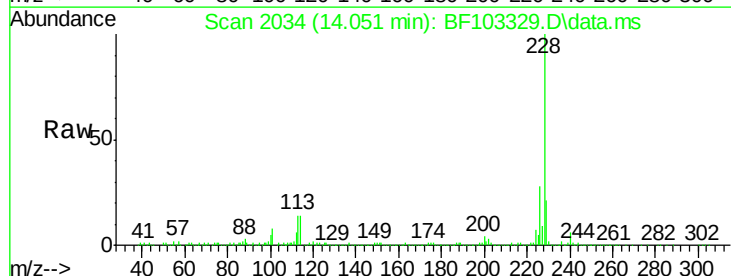
Tgt Ion:228 Resp: 643654

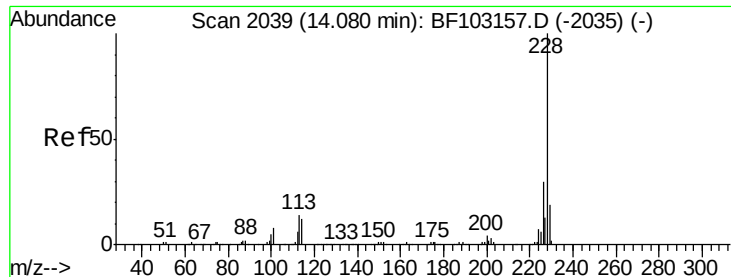
Ion Ratio Lower Upper

228 100

226 27.6 22.6 33.8

229 20.6 15.8 23.6





#82

Chrysene

Concen: 40.49 ng

RT: 14.092 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

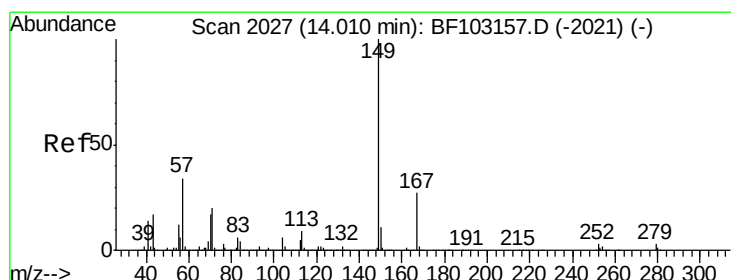
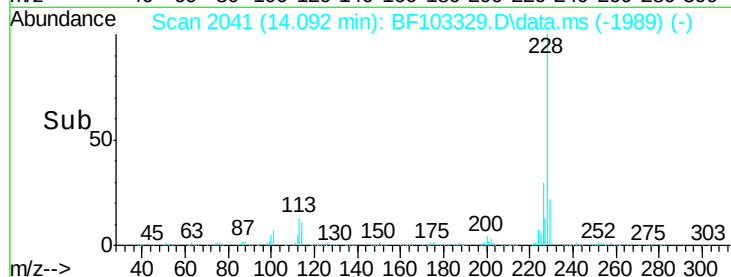
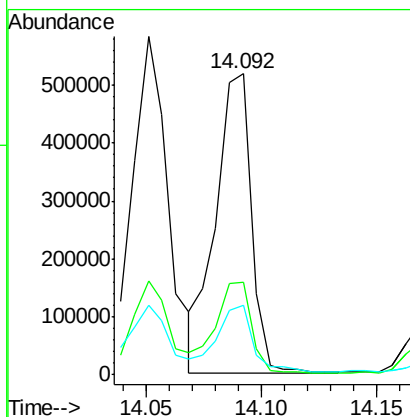
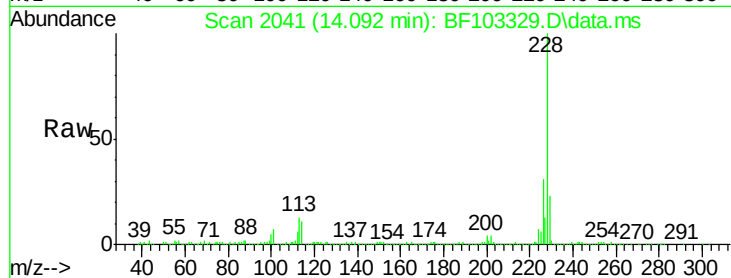
Tot Ion:228 Resp: 561169

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

229 23.2 16.2 24.4



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.59 ng

RT: 14.015 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

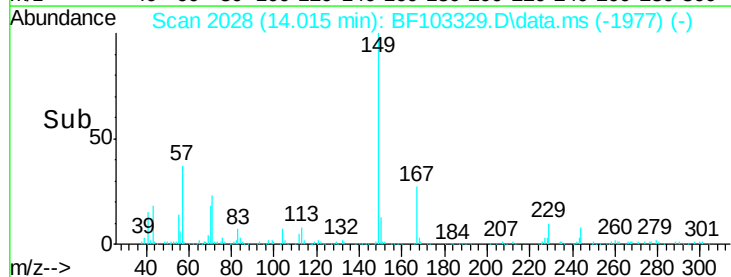
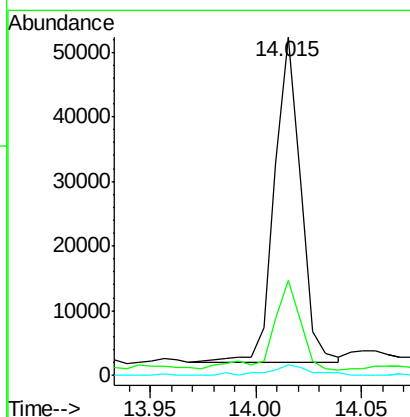
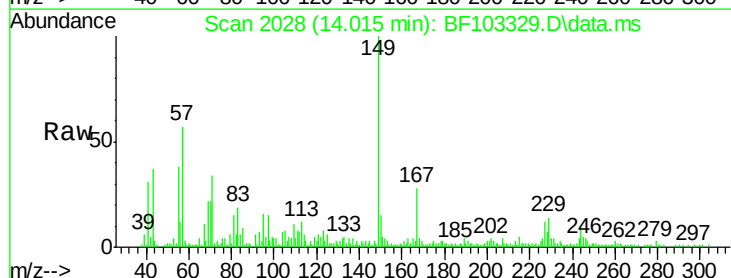
Tgt Ion:149 Resp: 43877

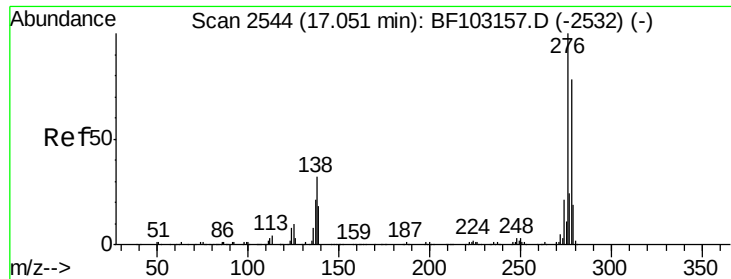
Ion Ratio Lower Upper

149 100

167 28.0 21.3 31.9

279 2.9 3.0 4.4#





#85

Indeno(1,2,3-cd)pyrene

Concen: 29.27 ng

RT: 17.098 min Scan# 25

Delta R.T. 0.012 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

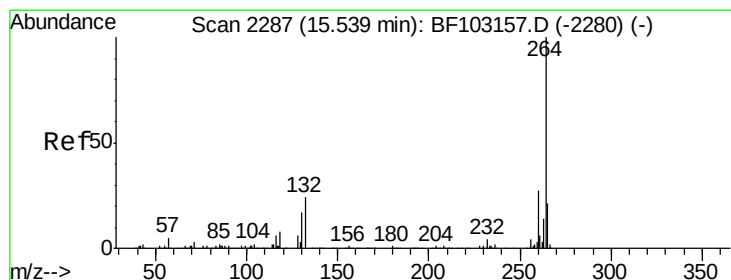
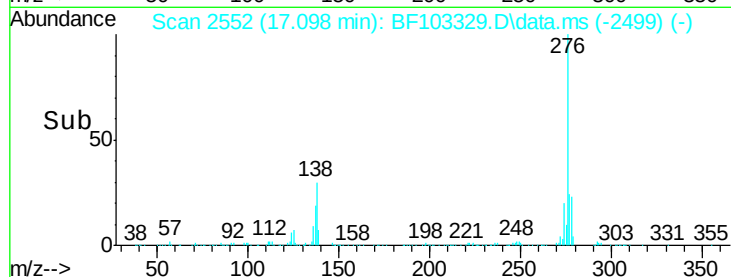
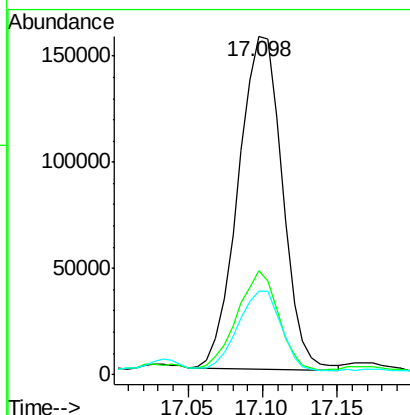
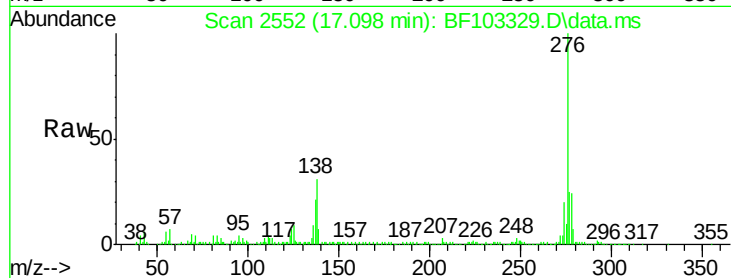
Tot Ion:276 Resp: 321108

Ion Ratio Lower Upper

276 100

138 28.3 25.0 37.6

277 23.8 20.1 30.1



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.568 min Scan# 2292

Delta R.T. 0.012 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

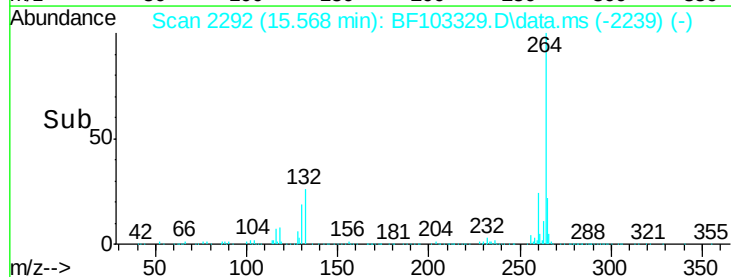
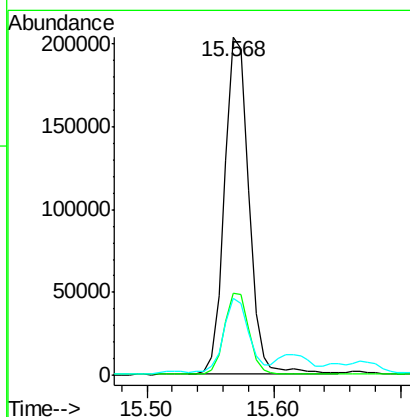
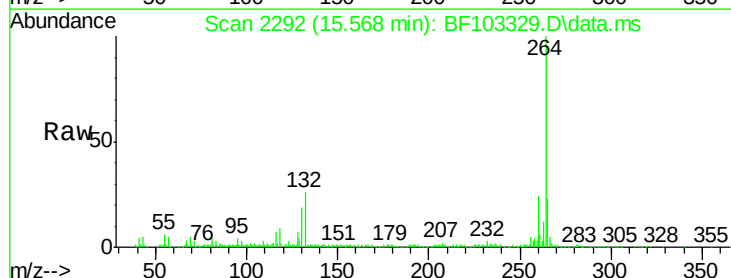
Tgt Ion:264 Resp: 270366

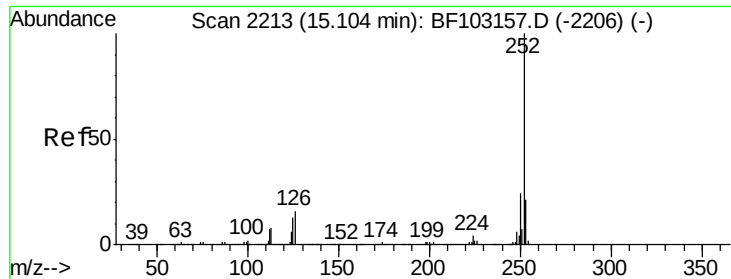
Ion Ratio Lower Upper

264 100

260 24.3 19.2 28.8

265 22.6 17.5 26.3

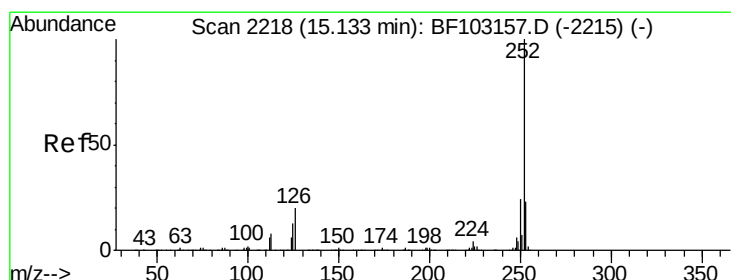
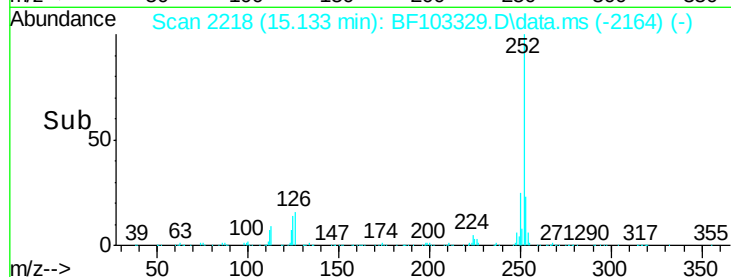
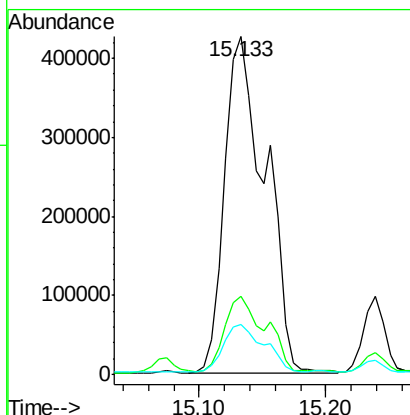
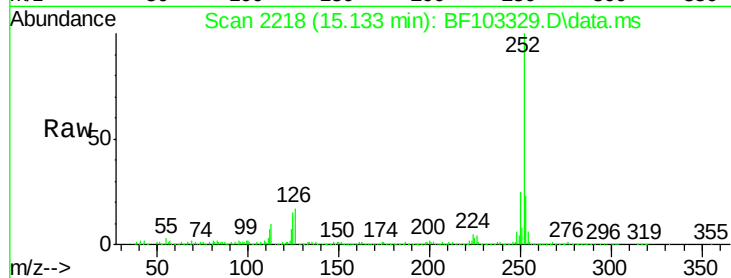




#87
Benzo(b)fluoranthene
Concen: 53.84 ng
RT: 15.133 min Scan# 2213
Delta R.T. 0.018 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

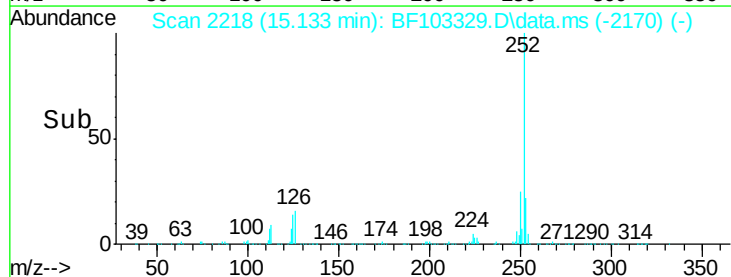
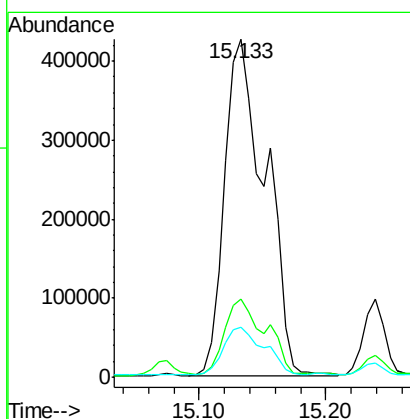
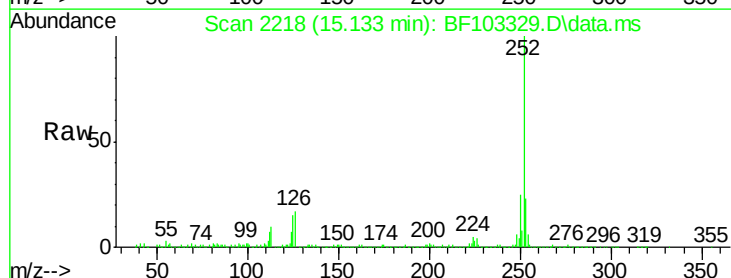
Instrument :
BNA_F
ClientSampleId :

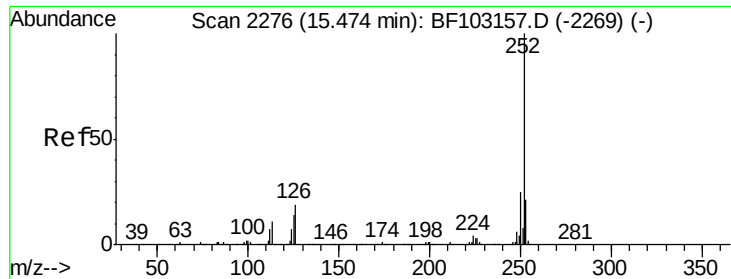
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	14.8	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 57.17 ng
RT: 15.133 min Scan# 2218
Delta R.T. -0.018 min
Lab File: BF103329.D
Acq: 1 Mar 2018 11:55

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	14.8	10.2	15.2





#89

Benzo(a)pyrene

Concen: 35.31 ng

RT: 15.509 min Scan# 2276

Delta R.T. 0.012 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :

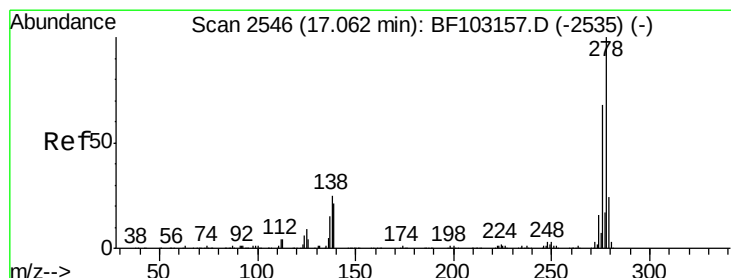
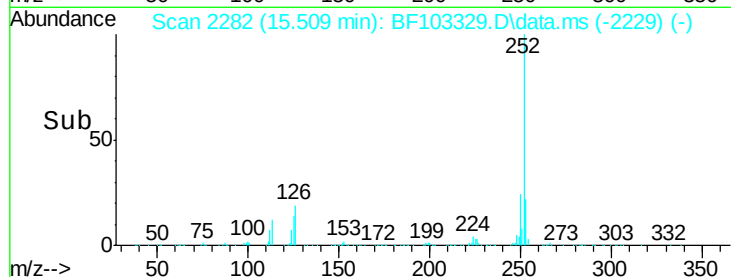
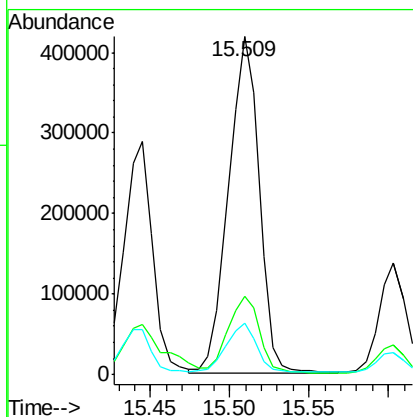
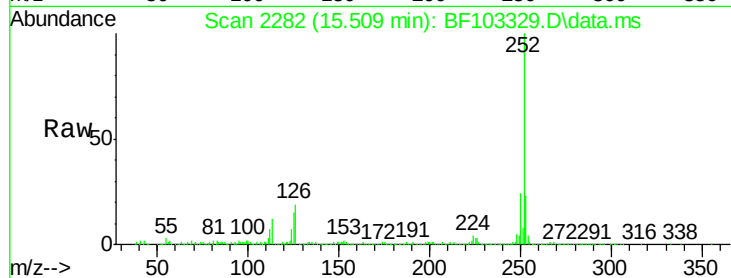
Tot Ion:252 Resp: 560576

Ion Ratio Lower Upper

252 100

253 23.3 17.1 25.7

125 15.1 9.8 14.6#



#90

Dibenzo(a,h)anthracene

Concen: 4.45 ng

RT: 16.892 min Scan# 2517

Delta R.T. -0.200 min

Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

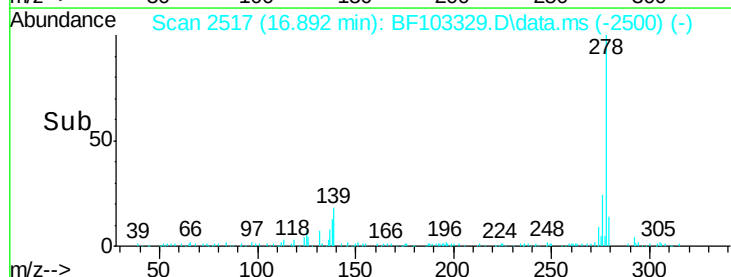
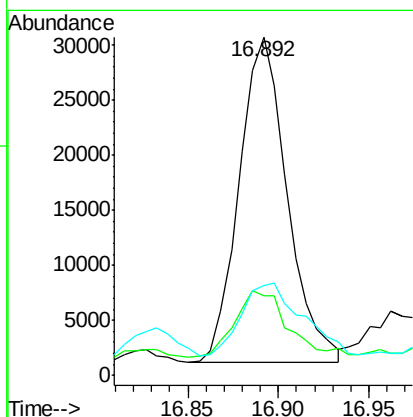
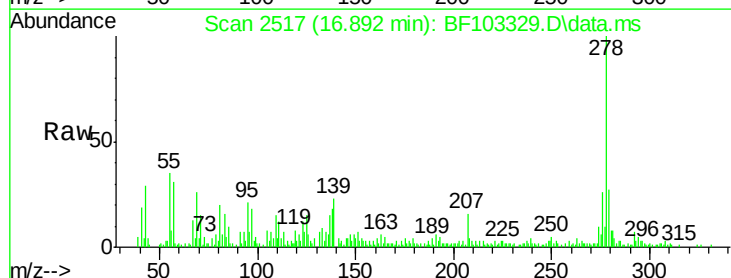
Tgt Ion:278 Resp: 54591

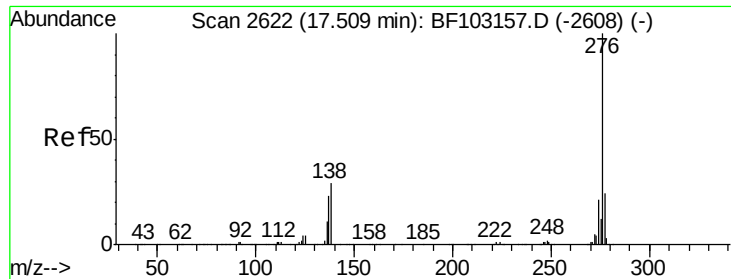
Ion Ratio Lower Upper

278 100

139 23.3 15.9 23.9

279 26.7 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 25.37 ng

RT: 17.562 min Scan# 26

Delta R.T. 0.023 min

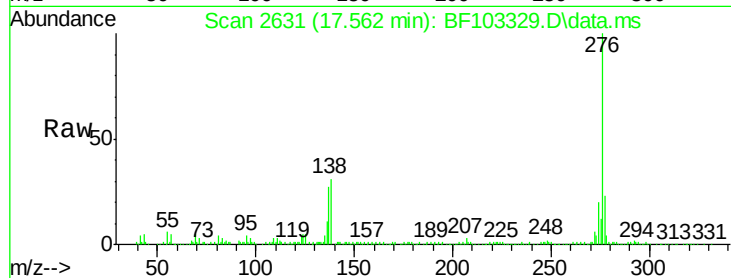
Lab File: BF103329.D

Acq: 1 Mar 2018 11:55

Instrument :

BNA_F

ClientSampleId :



Tot Ion: 276 Resp: 304190

Ion Ratio Lower Upper

276 100

277 23.3 17.9 26.9

138 30.8 21.8 32.8

