

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000770.D
 Acq On : 01 Apr 2015 01:24
 Operator : TP/IZ
 Sample : MDL-01-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Apr 01 15:08:35 2015
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SIMPAH-BM033115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 01 04:17:30 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	41400	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	139399	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	67147	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	144428	5.00	ng	0.00
19) Chrysene-d12	21.21	240	118235	5.00	ng	0.00
25) Perylene-d12	23.40	264	109025	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	69008	8.06	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	201972	9.70	ng	0.00
21) Terphenyl-d14	19.66	244	149449	10.50	ng	0.00

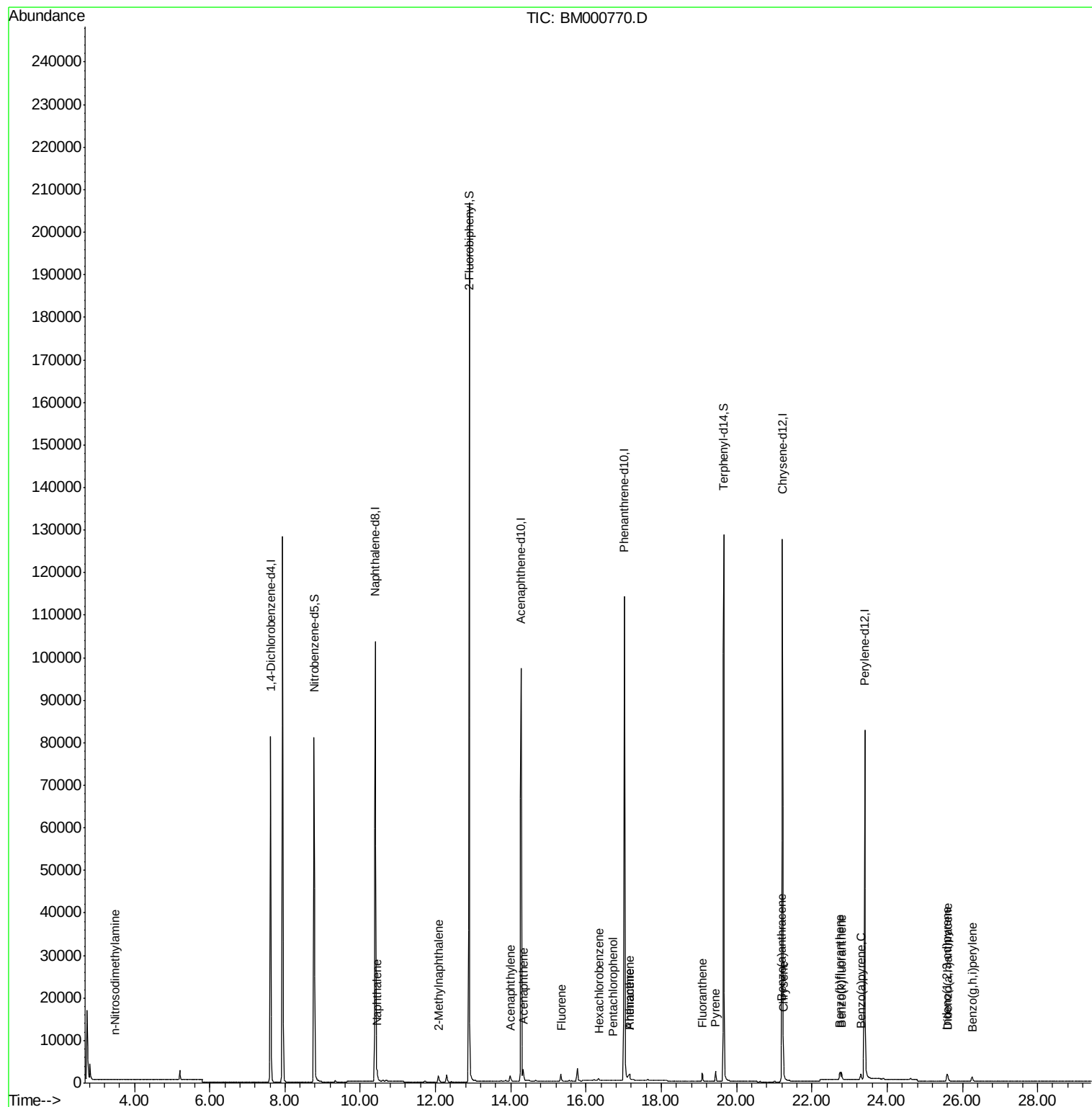
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.48	42	132	0.18	ng	# 1
6) Naphthalene	10.45	128	2265	0.07	ng	# 92
7) 2-Methylnaphthalene	12.08	142	1335	0.07	ng	97
10) Acenaphthylene	13.99	152	1716	0.06	ng	99
11) Acenaphthene	14.33	154	1329	0.06	ng	98
12) Fluorene	15.34	166	1532	0.07	ng	99
14) Hexachlorobenzene	16.33	284	561	0.07	ng	# 97
15) Pentachlorophenol	16.70	266	21	0.37	ng	# 60
16) Phenanthrene	17.15	178	2167	0.05	ng	97
17) Anthracene	17.15	178	2189	0.07	ng	98
18) Fluoranthene	19.08	202	2524	0.06	ng	100
20) Pyrene	19.44	202	2610	0.07	ng	99
22) Benzo(a)anthracene	21.19	228	2585	0.08	ng	# 92
23) Chrysene	21.24	228	2702	0.08	ng	97
24) Indeno(1,2,3-cd)pyrene	25.59	276	2545	0.07	ng	99
26) Benzo(b)fluoranthene	22.75	252	2363	0.07	ng	# 77
27) Benzo(k)fluoranthene	22.79	252	2389	0.07	ng	# 77
28) Benzo(a)pyrene	23.30	252	2038	0.07	ng	# 71
29) Dibenzo(a,h)anthracene	25.60	278	2034	0.07	ng	# 78
30) Benzo(g,h,i)perylene	26.26	276	2302	0.07	ng	91

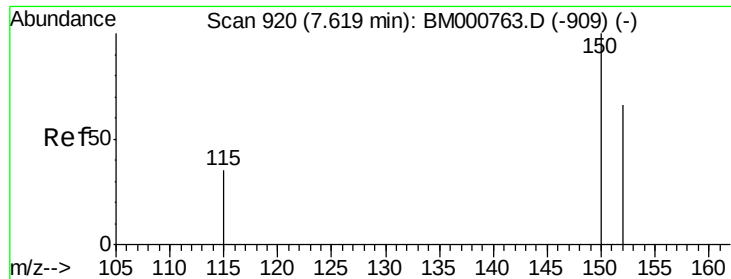
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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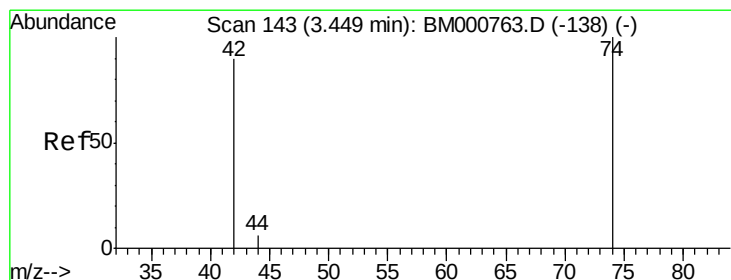
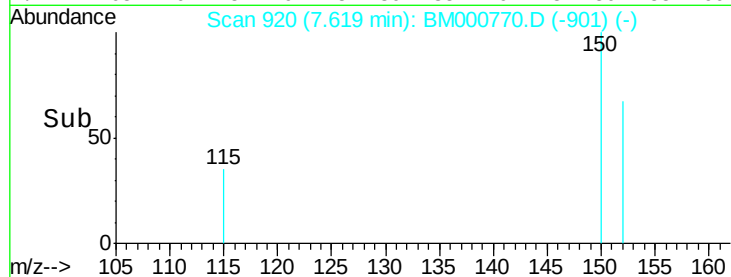
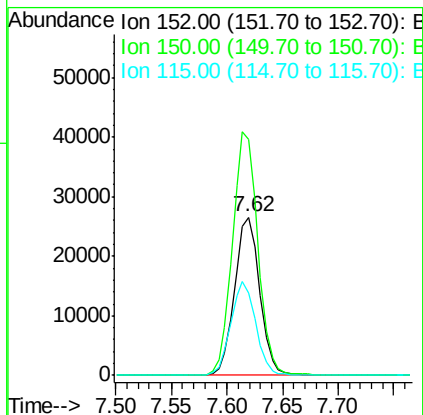
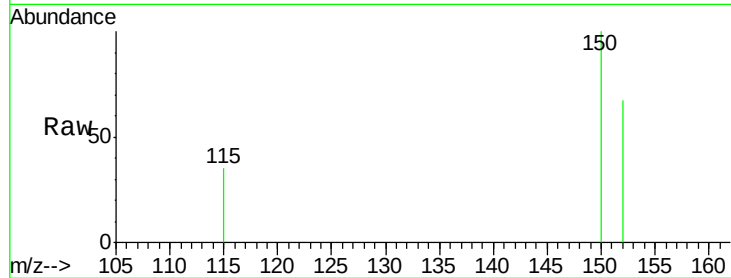


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.62 min Scan# 920
Delta R.T. 0.00 min
Lab File: BM000770.D
Acq: 01 Apr 2015 01:24

Instrument :
BNA_M
ClientSampleId :

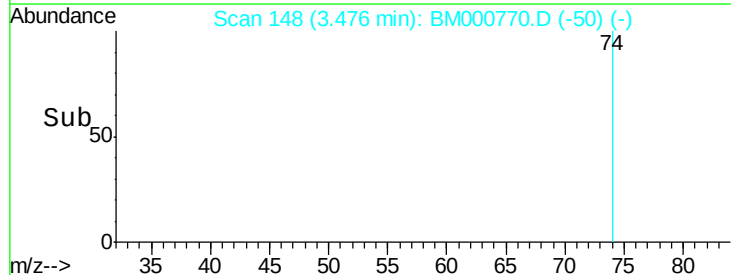
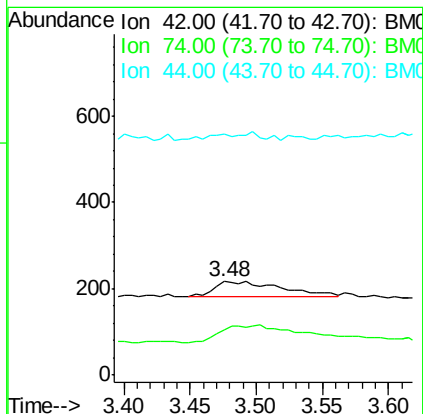
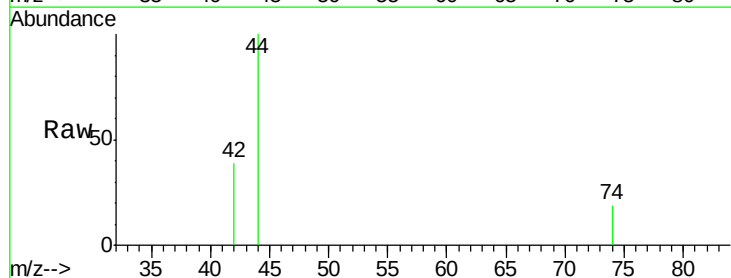
Tgt Ion: 152 Resp: 41400
Ion Ratio Lower Upper
152 100
150 149.2 120.8 181.2
115 52.4 42.7 64.1

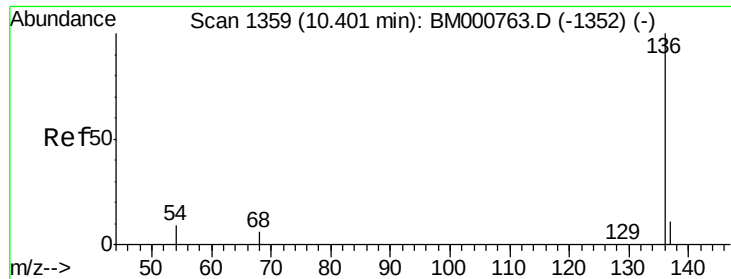


#3

n-Nitrosodimethylamine
Concen: 0.18 ng
RT: 3.48 min Scan# 148
Delta R.T. 0.03 min
Lab File: BM000770.D
Acq: 01 Apr 2015 01:24

Tgt Ion: 42 Resp: 132
Ion Ratio Lower Upper
42 100
74 0.0 93.6 140.4#
44 10.6 6.3 9.5#





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :

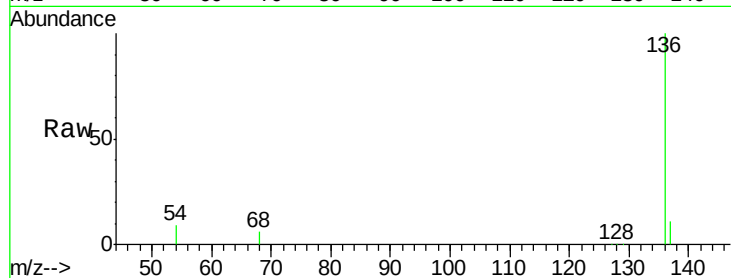
Tgt Ion: 136 Resp: 139399

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

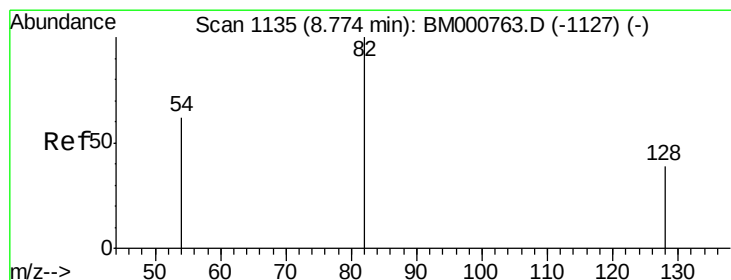
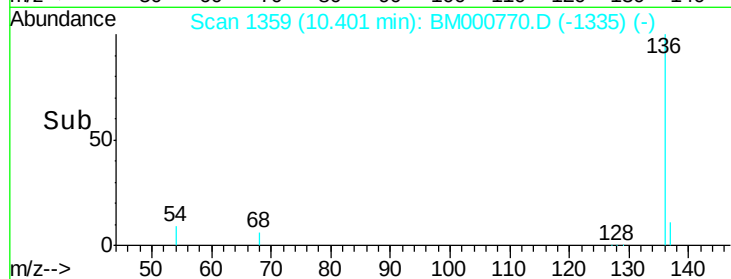
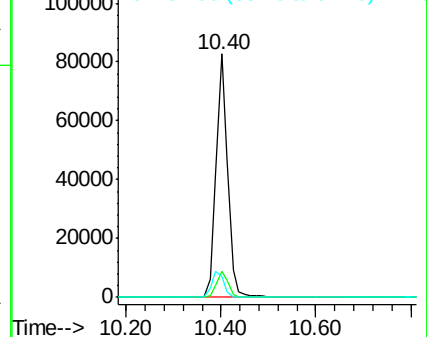
54 8.7 7.0 10.6



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): BM



#5

Nitrobenzene-d5

Concen: 8.06 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

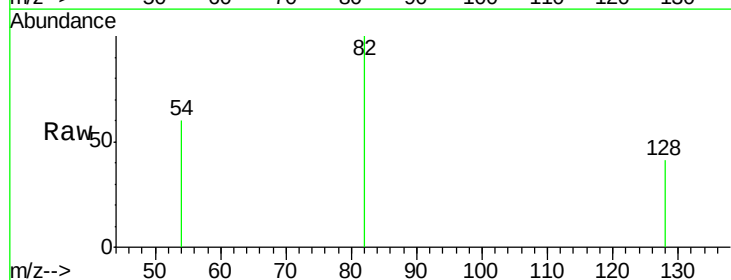
Tgt Ion: 82 Resp: 69008

Ion Ratio Lower Upper

82 100

128 40.9 32.2 48.2

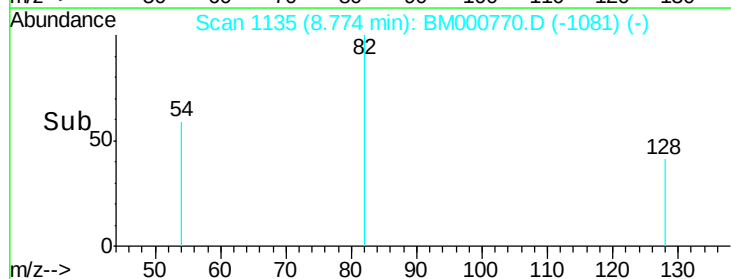
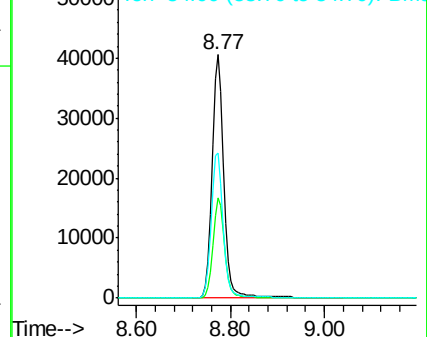
54 59.5 50.2 75.4

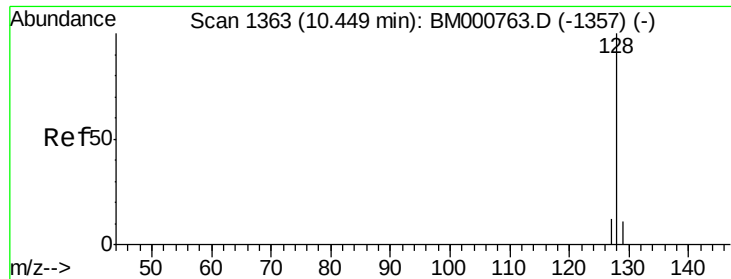


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#6

Naphthalene

Concen: 0.07 ng

RT: 10.45 min Scan# 1363

Delta R.T. 0.00 min

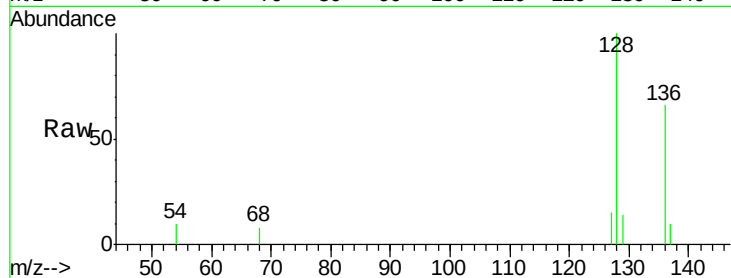
Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

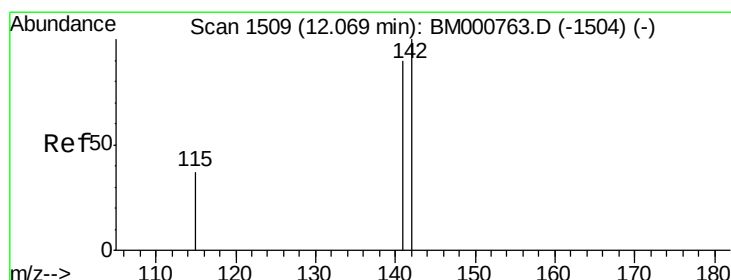
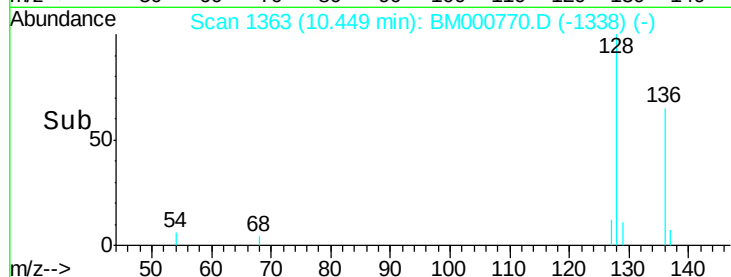
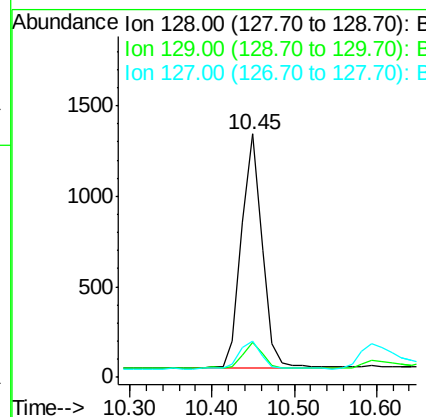
BNA_M

ClientSampleId :



Tgt Ion:128 Resp: 2265

Ion	Ratio	Lower	Upper
128	100		
129	14.4	8.9	13.3#
127	15.1	10.0	15.0#



#7

2-Methylnaphthalene

Concen: 0.07 ng

RT: 12.08 min Scan# 1510

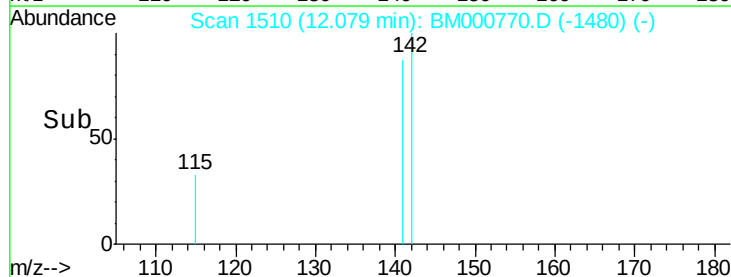
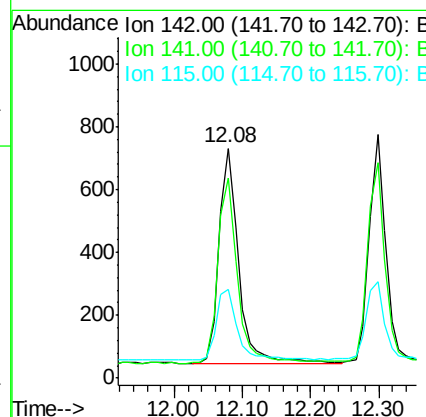
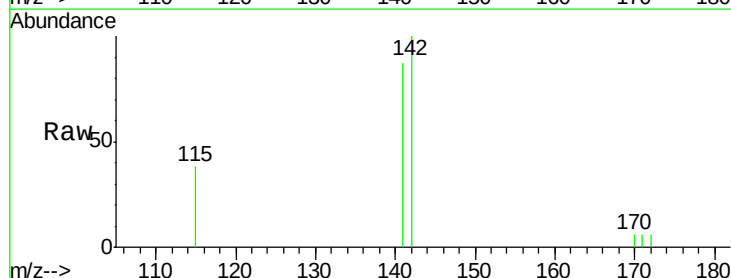
Delta R.T. 0.01 min

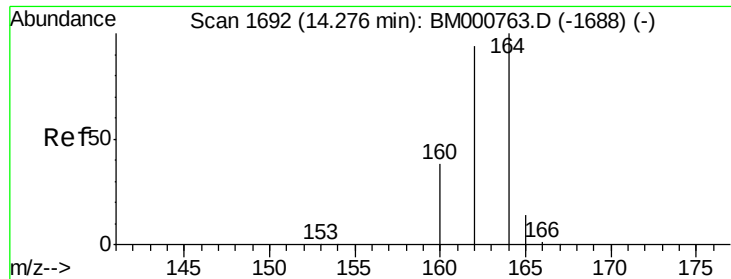
Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Tgt Ion:142 Resp: 1335

Ion	Ratio	Lower	Upper
142	100		
141	86.9	72.3	108.5
115	38.4	29.5	44.3





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :

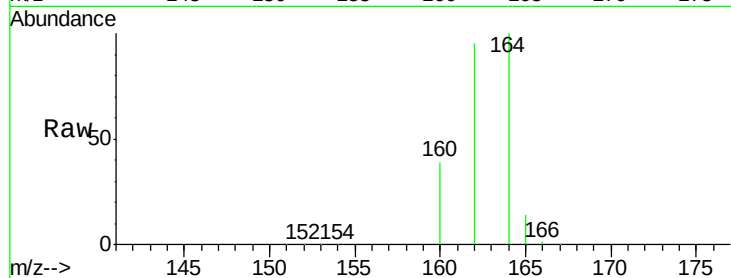
Tgt Ion:164 Resp: 67147

Ion Ratio Lower Upper

164 100

162 95.0 75.4 113.2

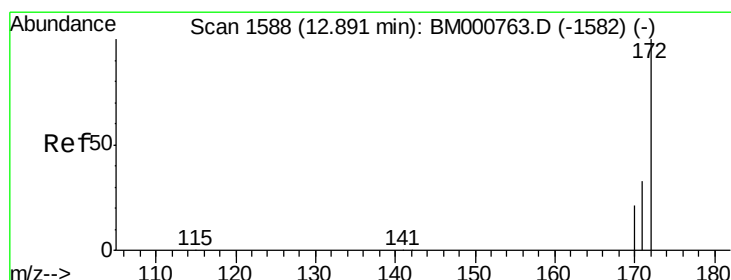
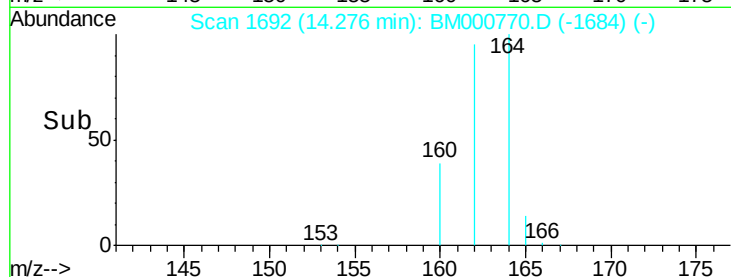
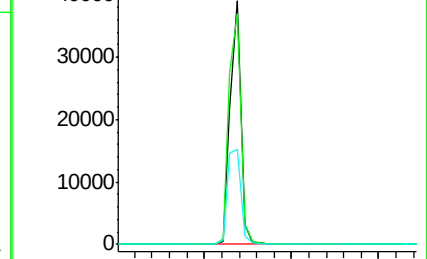
160 39.0 30.8 46.2



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



#9

2-Fluorobiphenyl

Concen: 9.70 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

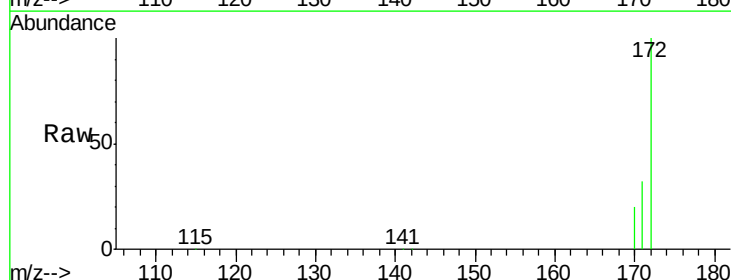
Tgt Ion:172 Resp: 201972

Ion Ratio Lower Upper

172 100

171 32.3 26.6 39.8

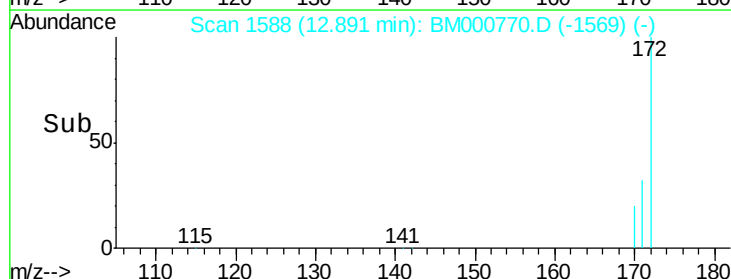
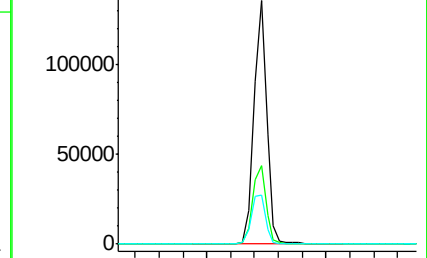
170 20.1 17.1 25.7

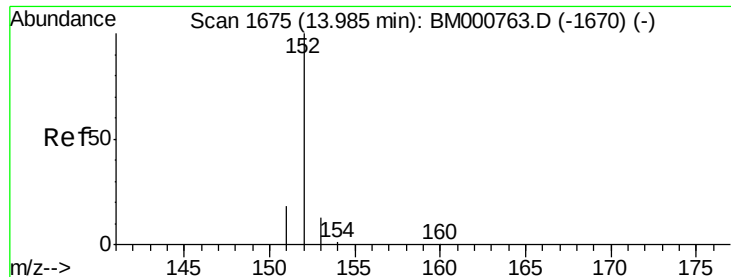


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthylene

Concen: 0.06 ng

RT: 13.99 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000770.D

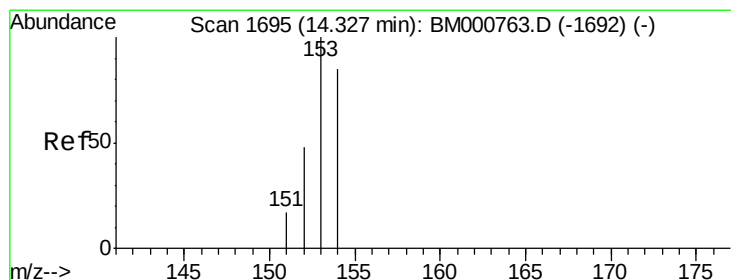
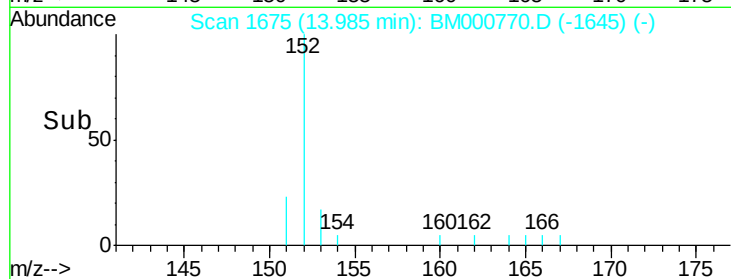
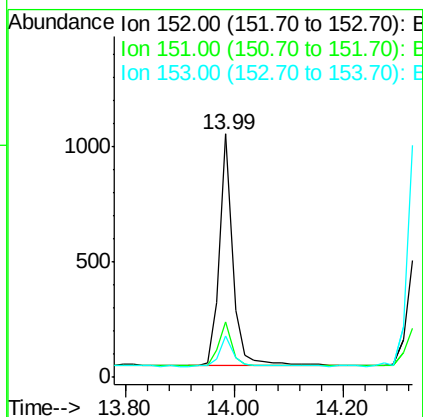
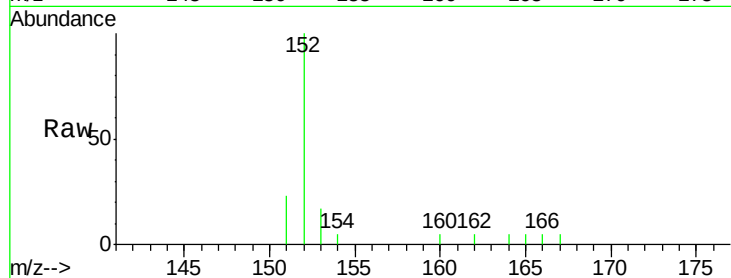
Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :

Tgt Ion:	152	Resp:	1716
Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.1	22.7
153	12.2	10.2	15.4



#11

Acenaphthene

Concen: 0.06 ng

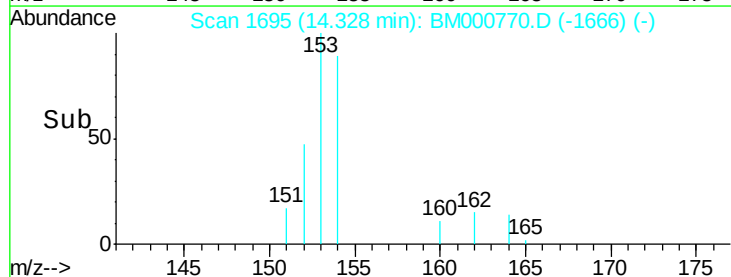
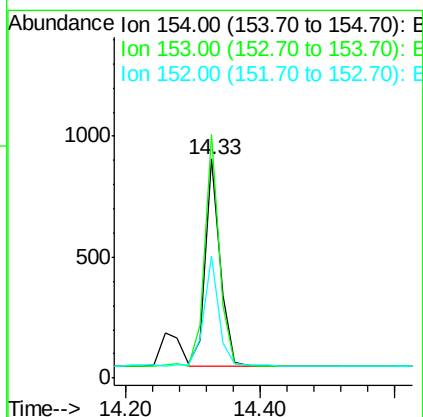
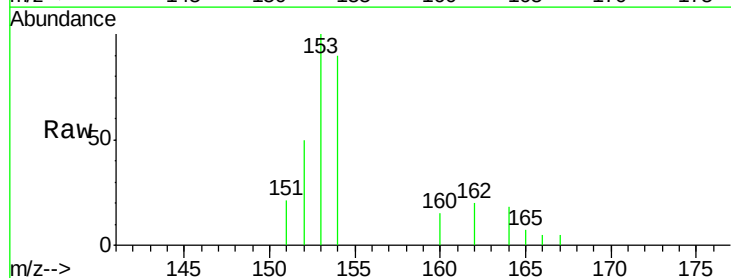
RT: 14.33 min Scan# 1695

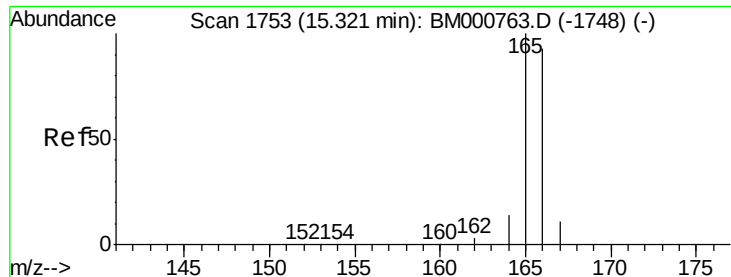
Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Tgt Ion:	154	Resp:	1329
Ion	Ratio	Lower	Upper
154	100		
153	111.2	87.3	130.9
152	53.3	43.0	64.6





#12

Fluorene

Concen: 0.07 ng

RT: 15.34 min Scan# 1754

Delta R.T. 0.02 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :

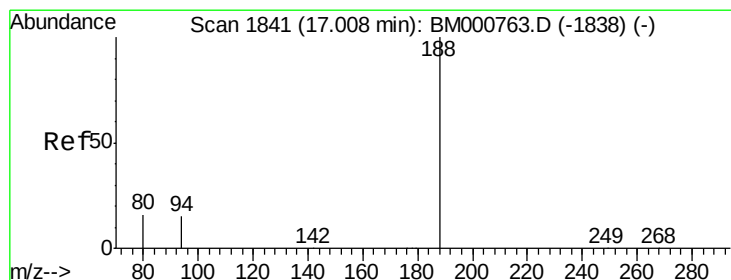
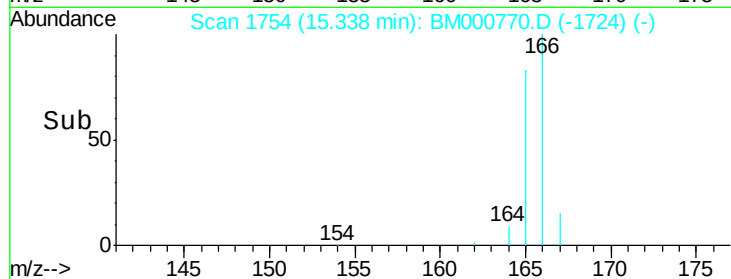
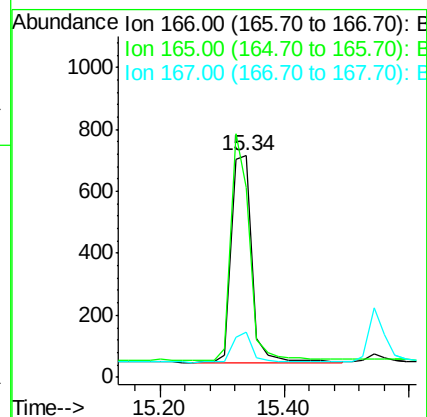
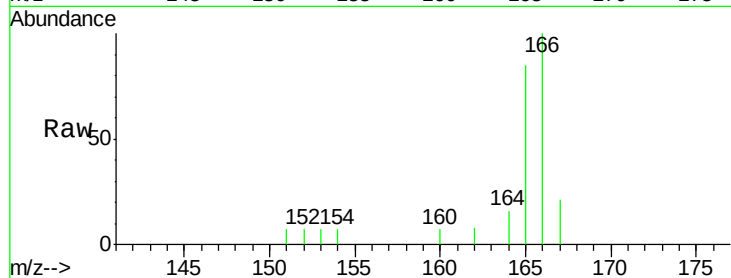
Tgt Ion:166 Resp: 1532

Ion Ratio Lower Upper

166 100

165 97.9 78.2 117.2

167 14.6 10.7 16.1



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

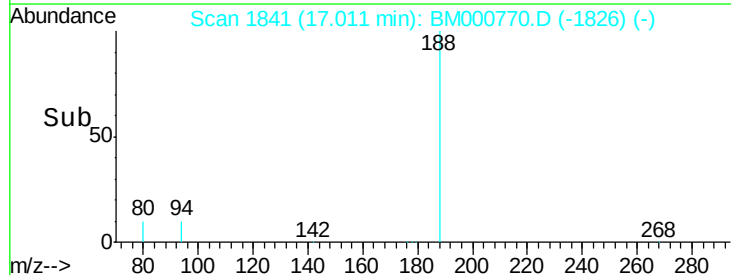
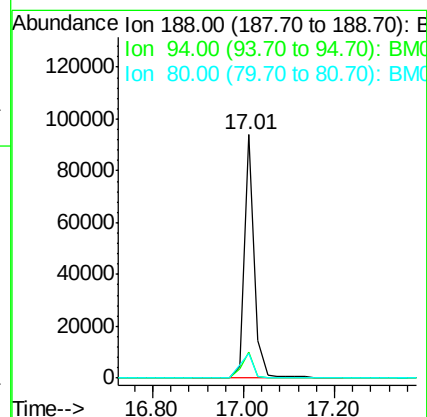
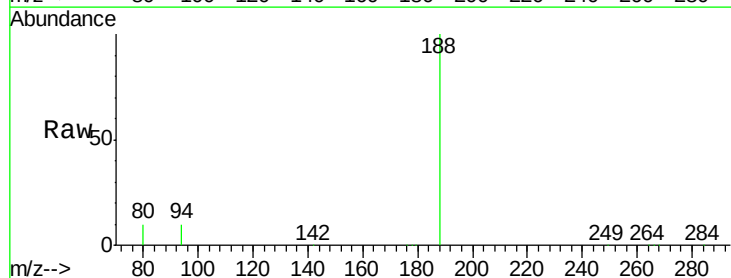
Tgt Ion:188 Resp: 144428

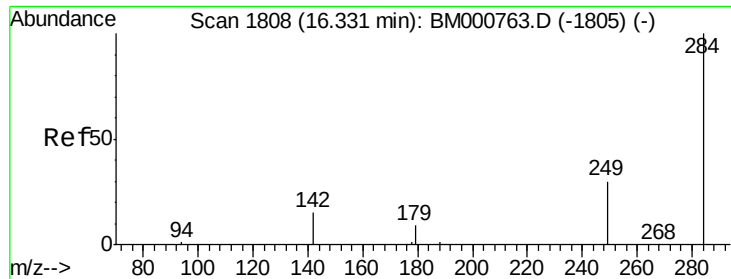
Ion Ratio Lower Upper

188 100

94 10.5 12.0 18.0#

80 10.4 12.8 19.2#

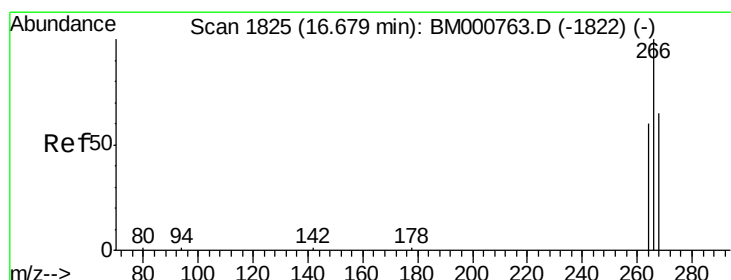
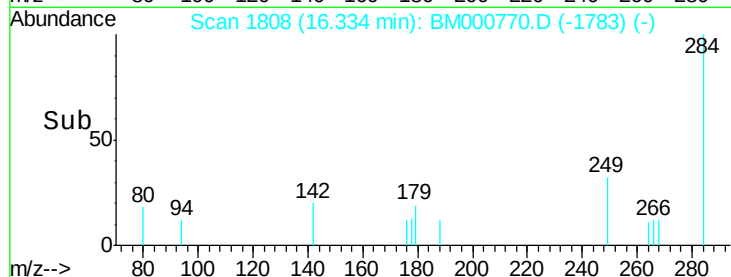
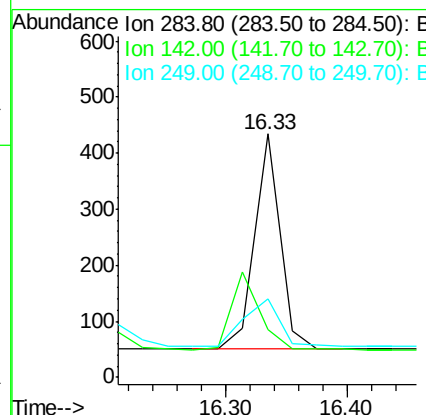
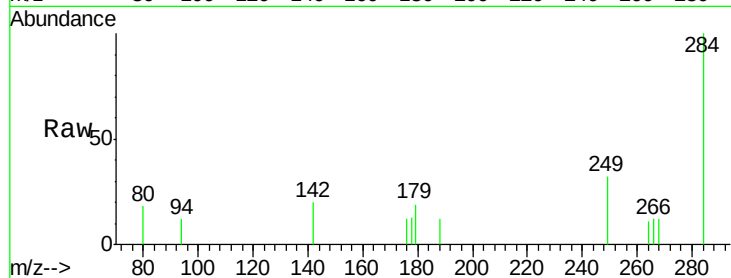




#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000770.D
Acq: 01 Apr 2015 01:24

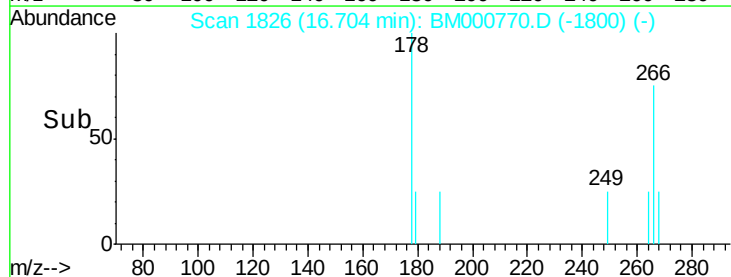
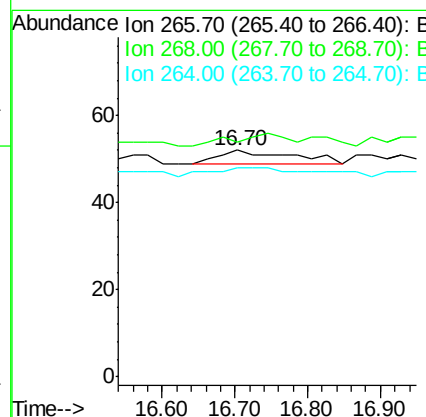
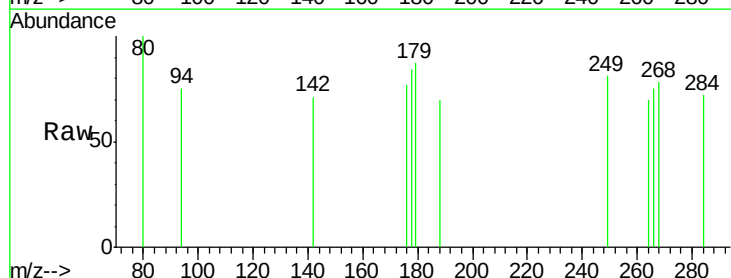
Instrument :
BNA_M
ClientSampleId :

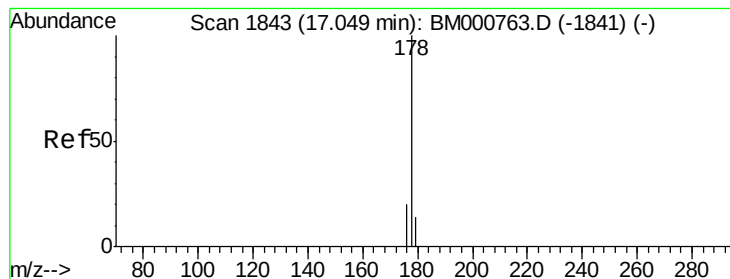
Tgt Ion: 284 Resp: 561
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 29.8 25.2 37.8



#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000770.D
Acq: 01 Apr 2015 01:24

Tgt Ion: 266 Resp: 21
Ion Ratio Lower Upper
266 100
268 103.8 55.0 82.6#
264 92.3 51.0 76.4#





#16

Phenanthrene

Concen: 0.05 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.11 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampled :

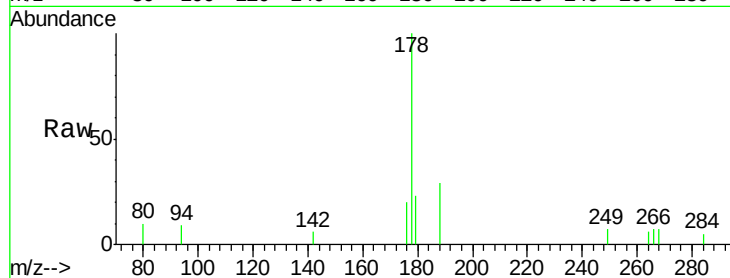
Tgt Ion:178 Resp: 2167

Ion Ratio Lower Upper

178 100

176 16.9 15.3 22.9

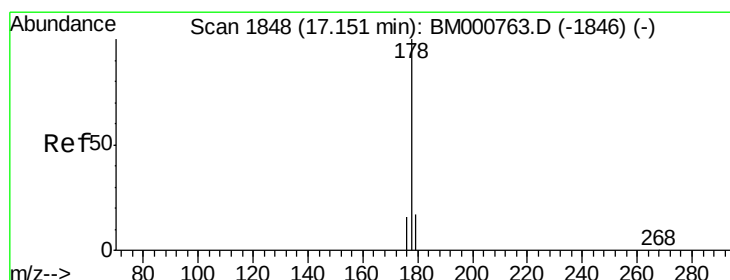
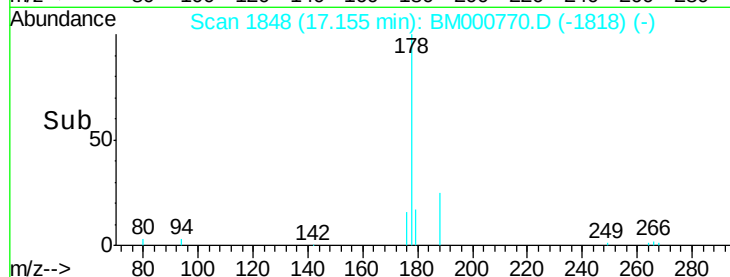
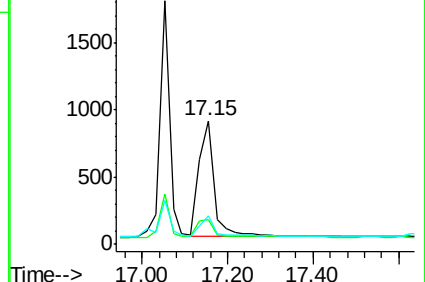
179 15.0 12.2 18.2



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



#17

Anthracene

Concen: 0.07 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

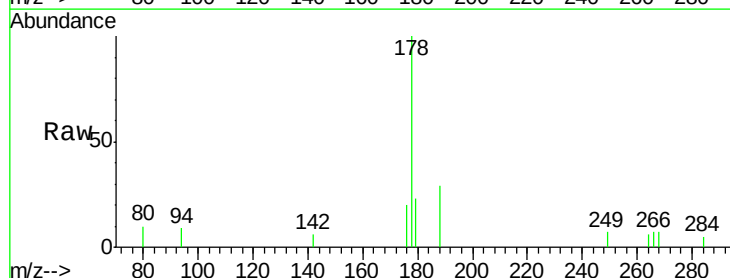
Tgt Ion:178 Resp: 2189

Ion Ratio Lower Upper

178 100

176 16.7 14.6 22.0

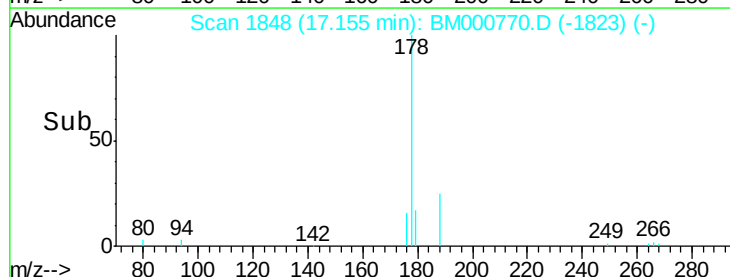
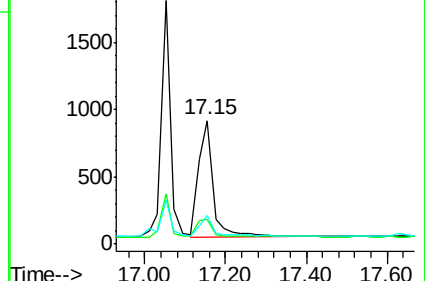
179 14.8 12.2 18.4

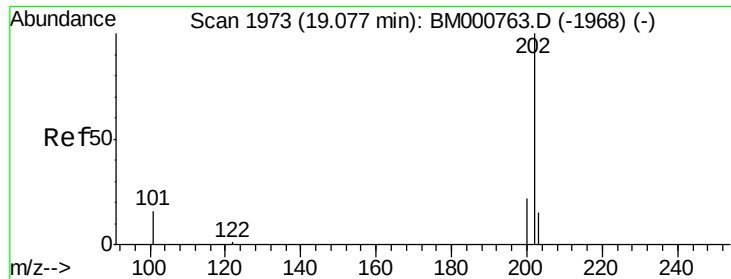


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

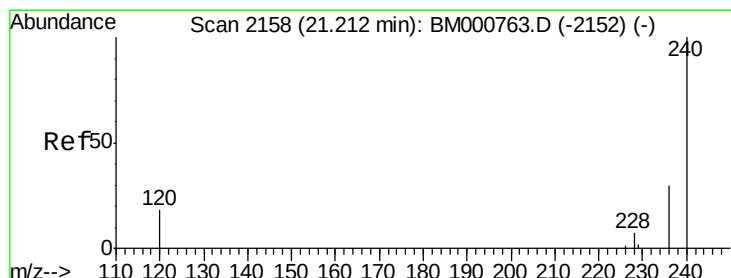
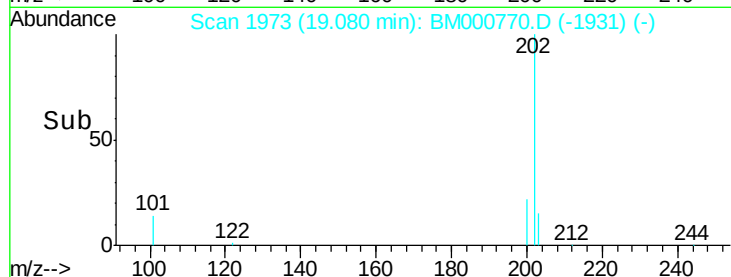
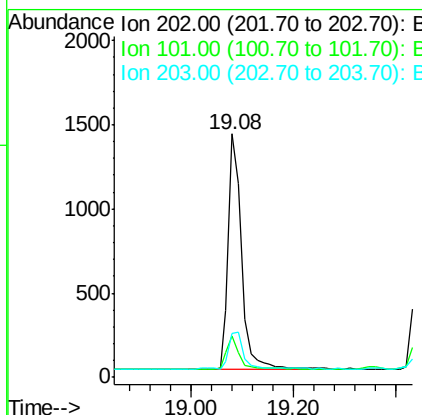
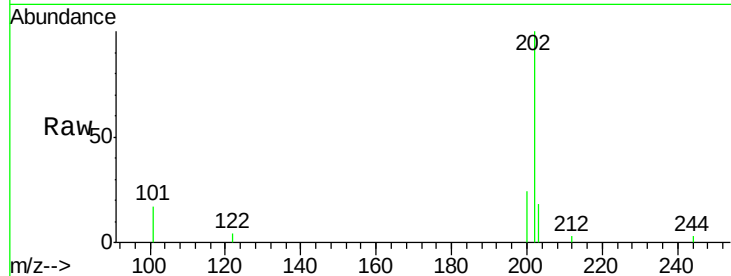




#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 19.08 min Scan# 1973
 Delta R.T. 0.00 min
 Lab File: BM000770.D
 Acq: 01 Apr 2015 01:24

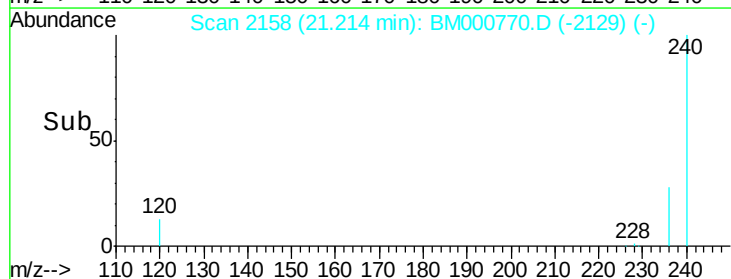
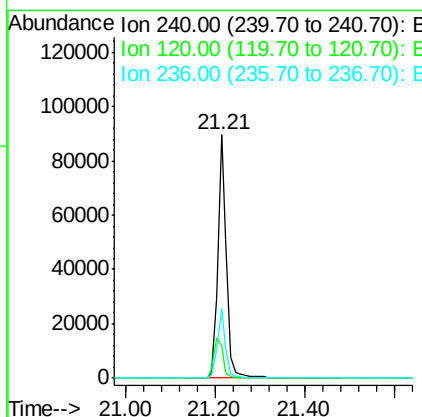
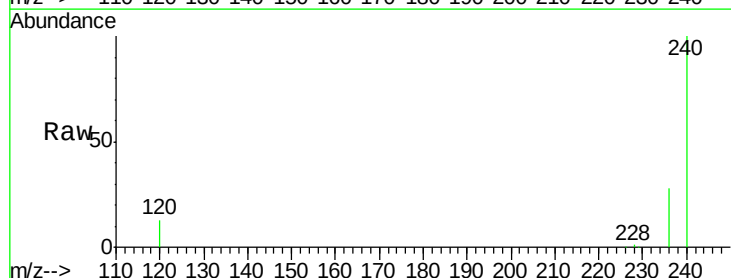
Instrument :
 BNA_M
 ClientSampleId :

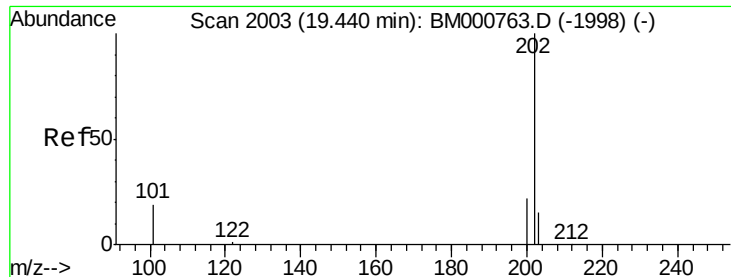
Tgt Ion: 202 Resp: 2524
 Ion Ratio Lower Upper
 202 100
 101 13.2 10.5 15.7
 203 17.5 13.8 20.8



#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: BM000770.D
 Acq: 01 Apr 2015 01:24

Tgt Ion: 240 Resp: 118235
 Ion Ratio Lower Upper
 240 100
 120 13.3 14.9 22.3#
 236 28.4 24.2 36.4





#20

Pyrene

Concen: 0.07 ng

RT: 19.44 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :

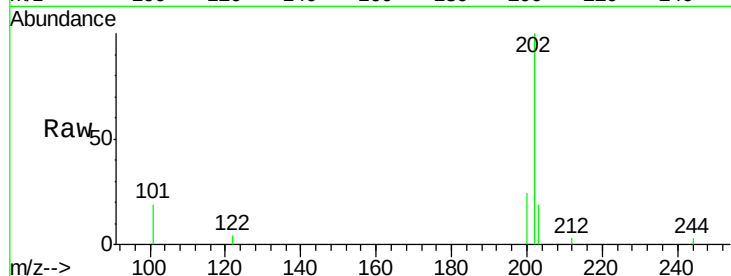
Tgt Ion:202 Resp: 2610

Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.2

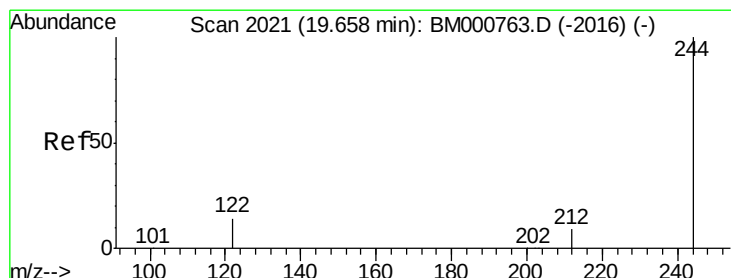
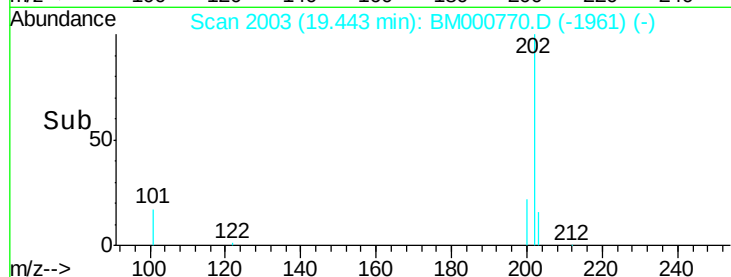
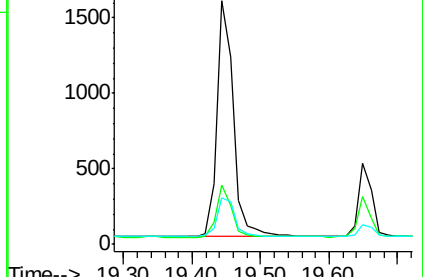
203 18.0 13.9 20.9



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



#21

Terphenyl-d14

Concen: 10.50 ng

RT: 19.66 min Scan# 2021

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

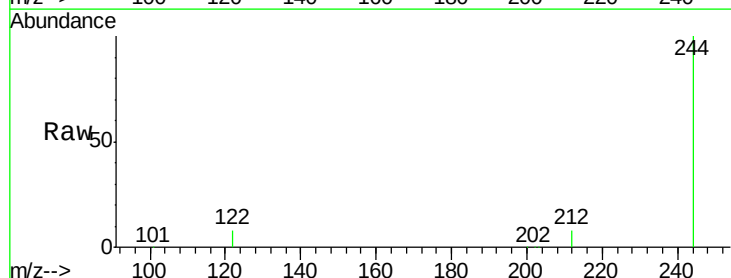
Tgt Ion:244 Resp: 149449

Ion Ratio Lower Upper

244 100

212 8.3 7.8 11.6

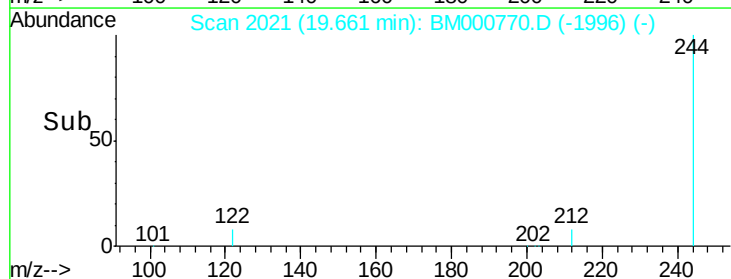
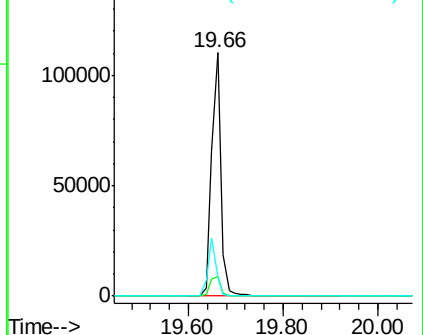
122 7.9 11.8 17.8#

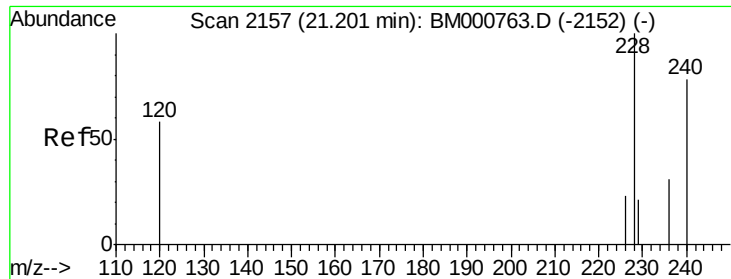


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#22

Benzo(a)anthracene

Concen: 0.08 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampled :

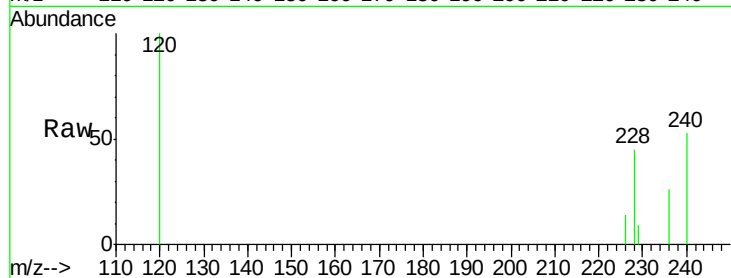
Tgt Ion:228 Resp: 2585

Ion Ratio Lower Upper

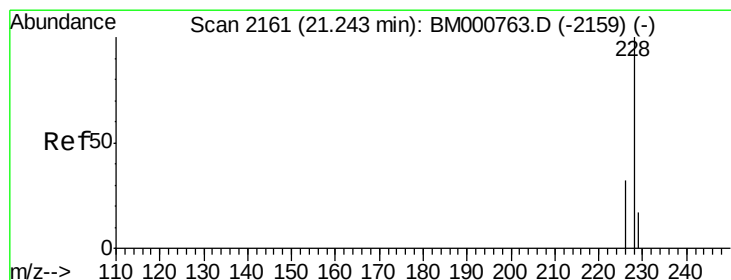
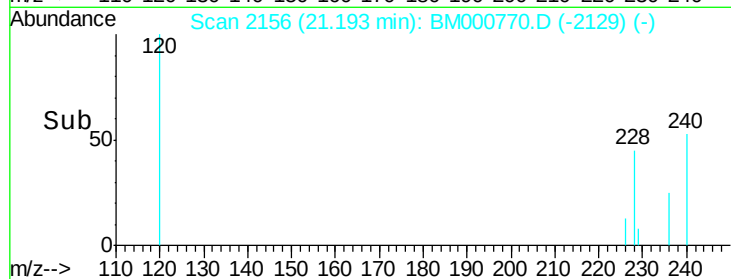
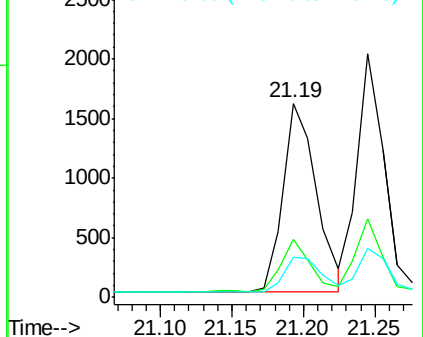
228 100

226 30.2 18.6 27.8#

229 20.6 17.2 25.8



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



#23

Chrysene

Concen: 0.08 ng

RT: 21.24 min Scan# 2161

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

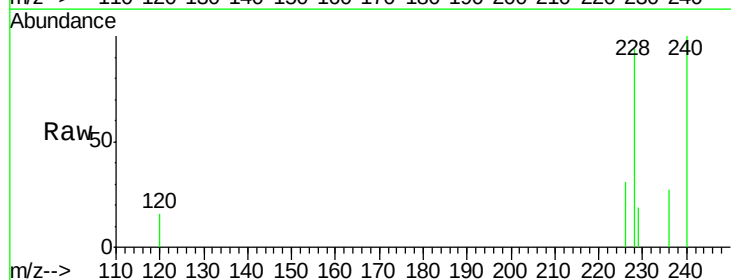
Tgt Ion:228 Resp: 2702

Ion Ratio Lower Upper

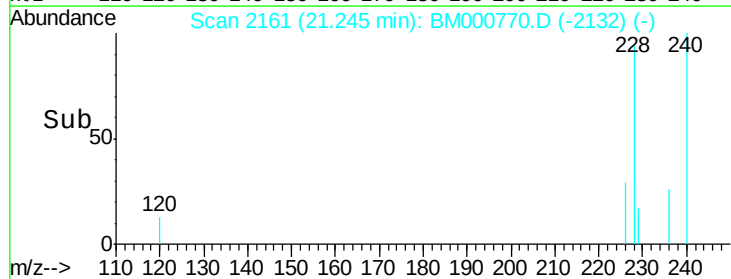
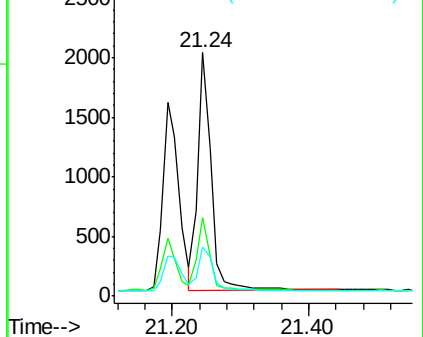
228 100

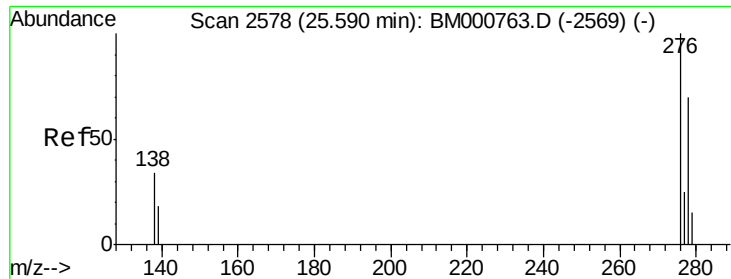
226 32.5 25.8 38.8

229 20.3 13.8 20.6



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





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.07 ng

RT: 25.59 min Scan# 2578

Delta R.T. 0.00 min

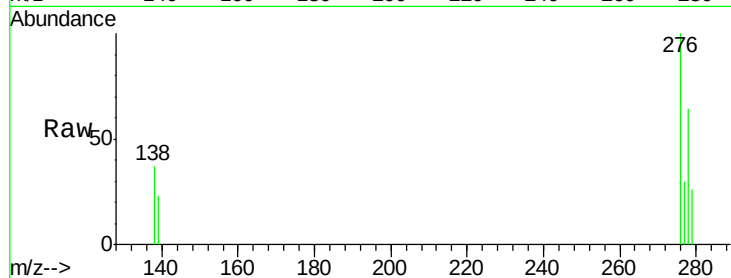
Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :



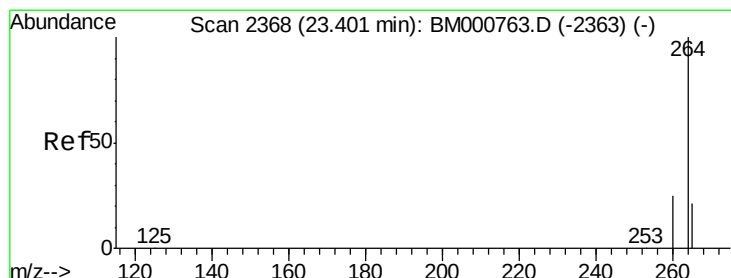
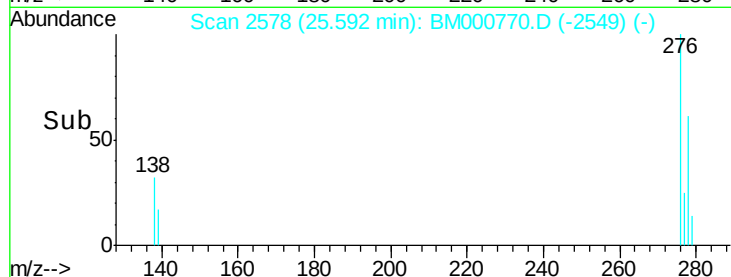
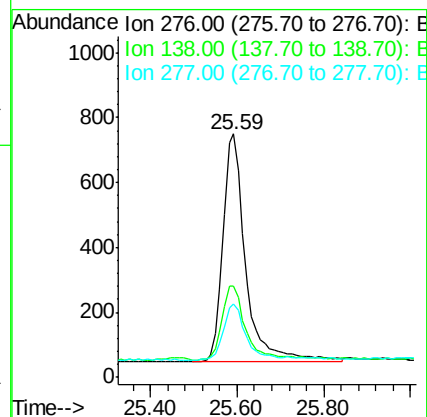
Tgt Ion:276 Resp: 2545

Ion Ratio Lower Upper

276 100

138 34.1 27.4 41.2

277 24.0 19.7 29.5



#25

Perylene-d12

Concen: 5.00 ng

RT: 23.40 min Scan# 2368

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

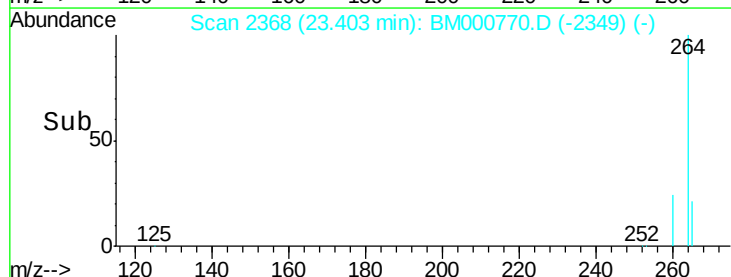
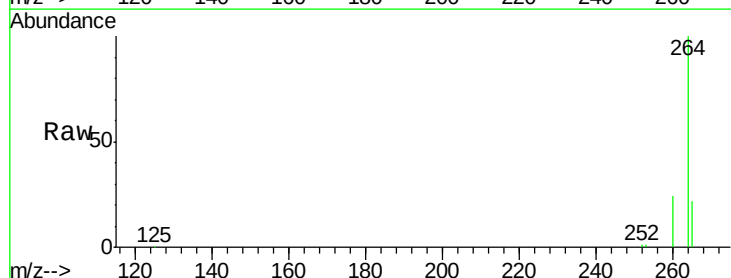
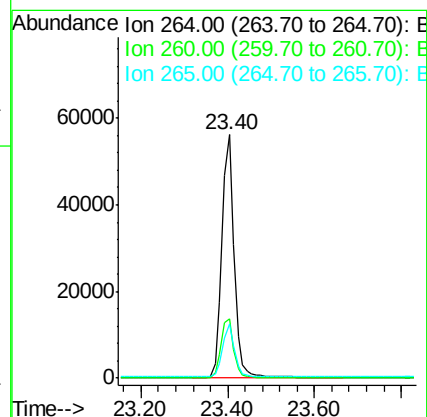
Tgt Ion:264 Resp: 109025

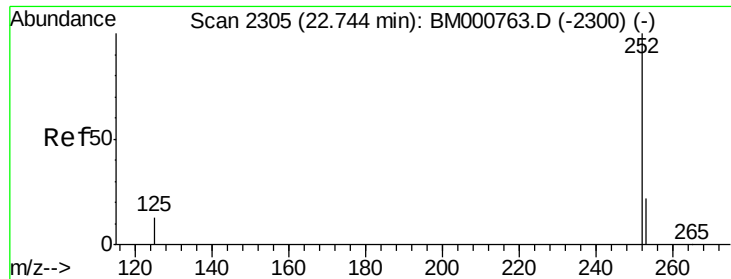
Ion Ratio Lower Upper

264 100

260 24.2 20.1 30.1

265 22.0 17.4 26.0

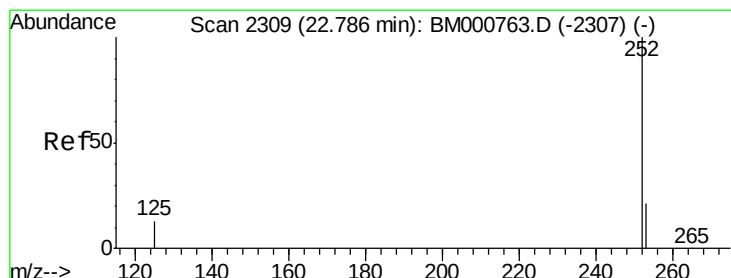
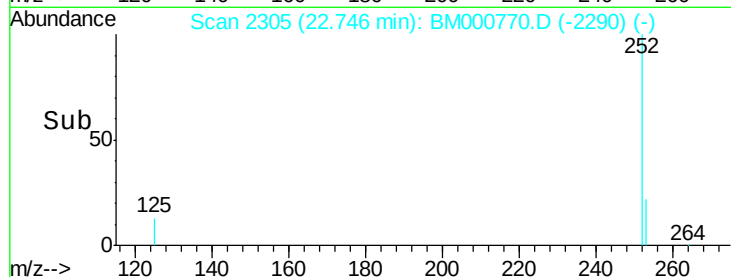
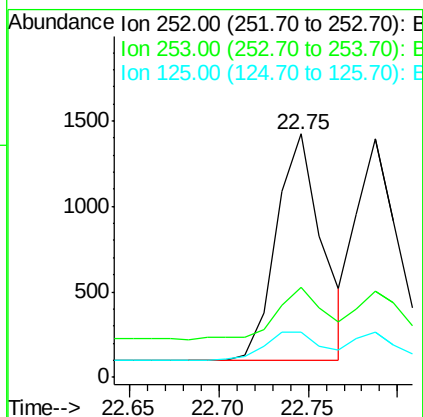
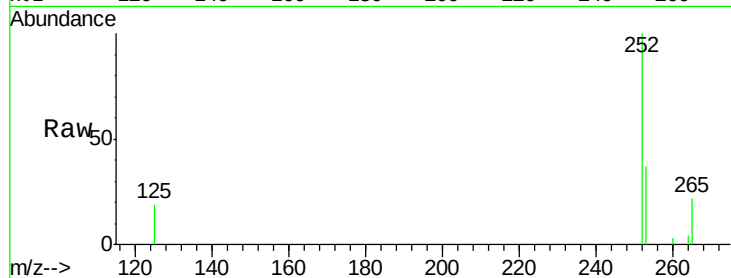




#26
Benzo(b)fluoranthene
Concen: 0.07 ng
RT: 22.75 min Scan# 2305
Delta R.T. 0.00 min
Lab File: BM000770.D
Acq: 01 Apr 2015 01:24

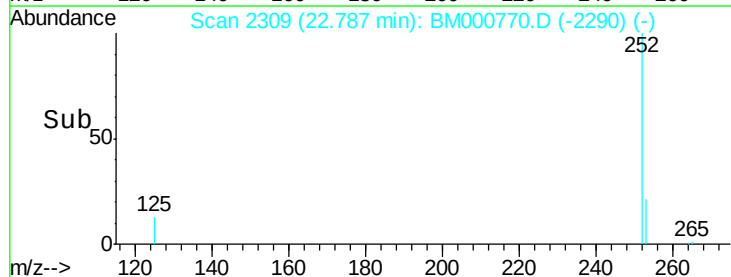
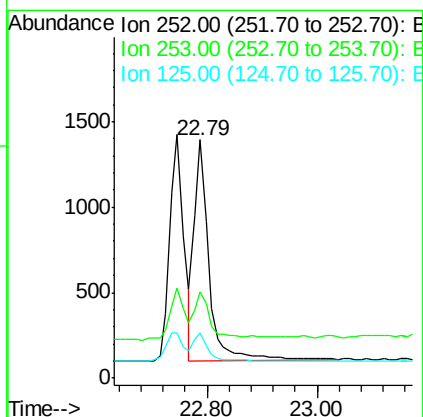
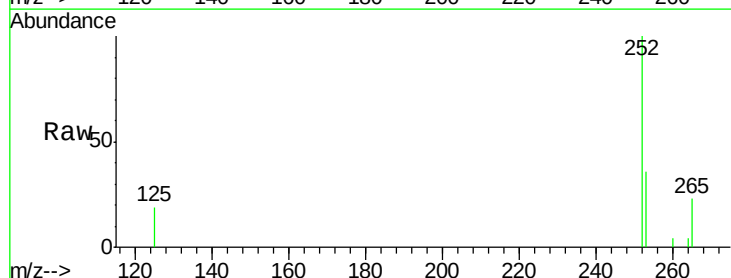
Instrument :
BNA_M
ClientSampleId :

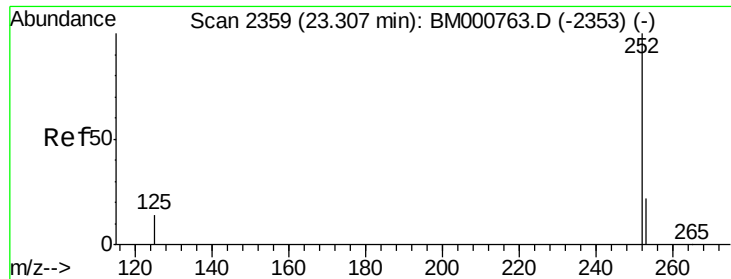
Tgt Ion:252 Resp: 2363
Ion Ratio Lower Upper
252 100
253 36.8 18.5 27.7#
125 18.8 10.6 16.0#



#27
Benzo(k)fluoranthene
Concen: 0.07 ng
RT: 22.79 min Scan# 2309
Delta R.T. 0.00 min
Lab File: BM000770.D
Acq: 01 Apr 2015 01:24

Tgt Ion:252 Resp: 2389
Ion Ratio Lower Upper
252 100
253 36.1 17.9 26.9#
125 19.3 10.8 16.2#





#28

Benzo(a)pyrene

Concen: 0.07 ng

RT: 23.30 min Scan# 2358

Delta R.T. -0.01 min

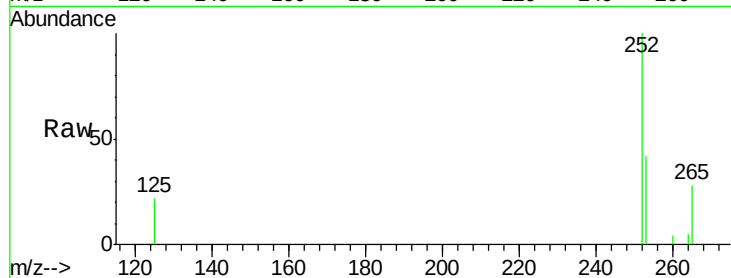
Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampled :



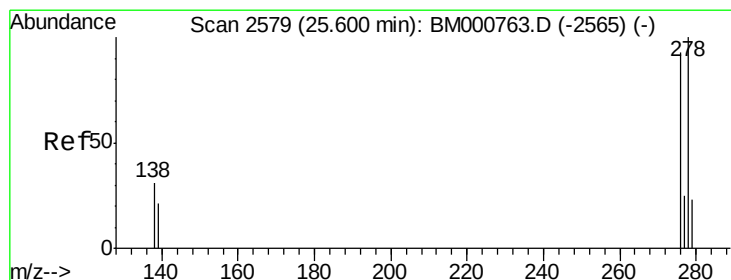
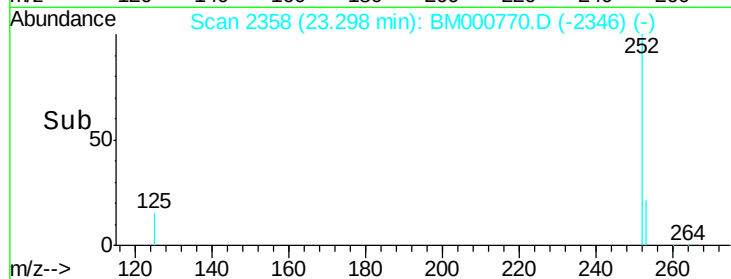
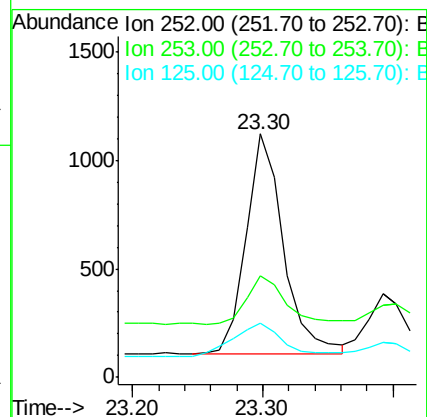
Tgt Ion: 252 Resp: 2038

Ion Ratio Lower Upper

252 100

253 41.9 19.4 29.2#

125 22.4 11.5 17.3#



#29

Dibenzo(a,h)anthracene

Concen: 0.07 ng

RT: 25.60 min Scan# 2579

Delta R.T. 0.00 min

Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

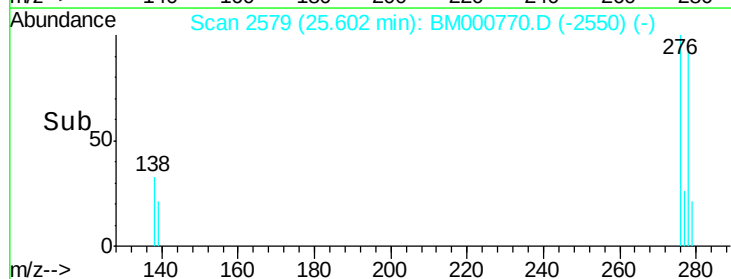
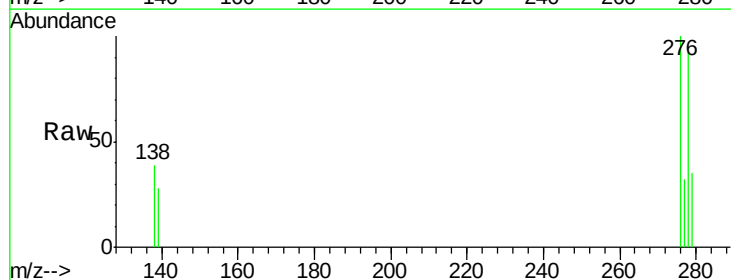
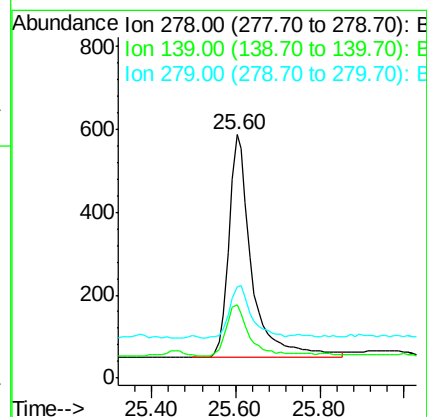
Tgt Ion: 278 Resp: 2034

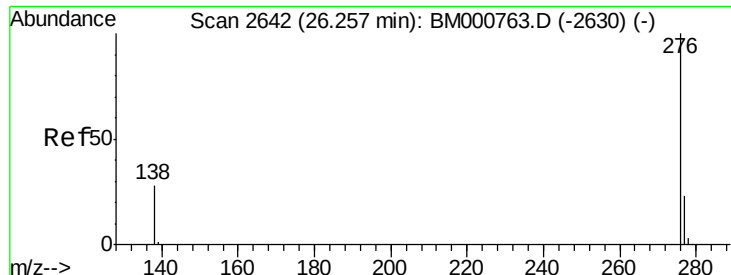
Ion Ratio Lower Upper

278 100

139 29.9 17.8 26.6#

279 37.4 19.3 28.9#





#30

Benzo(g,h,i)perylene

Concen: 0.07 ng

RT: 26.26 min Scan# 2642

Delta R.T. 0.00 min

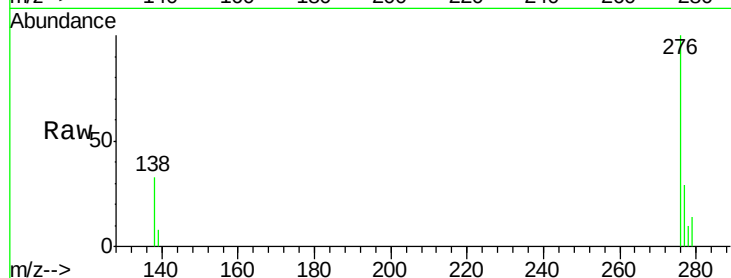
Lab File: BM000770.D

Acq: 01 Apr 2015 01:24

Instrument :

BNA_M

ClientSampleId :



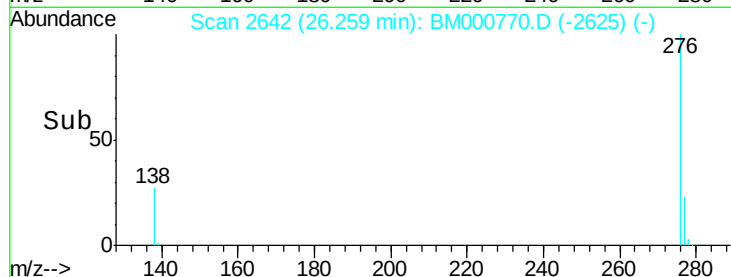
Tgt Ion: 276 Resp: 2302

Ion Ratio Lower Upper

276 100

277 28.6 19.1 28.7

138 33.2 23.1 34.7



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

