

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000772.D
 Acq On : 01 Apr 2015 02:35
 Operator : TP/IZ
 Sample : MDL-03-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-03-S

Quant Time: Apr 01 15:09:02 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	37135	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	125864	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	60900	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	128990	5.00	ng	0.00
19) Chrysene-d12	21.21	240	110460	5.00	ng	0.00
25) Perylene-d12	23.40	264	102790	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	60037	7.78	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	180761	9.57	ng	0.00
21) Terphenyl-d14	19.66	244	139525	10.50	ng	0.00

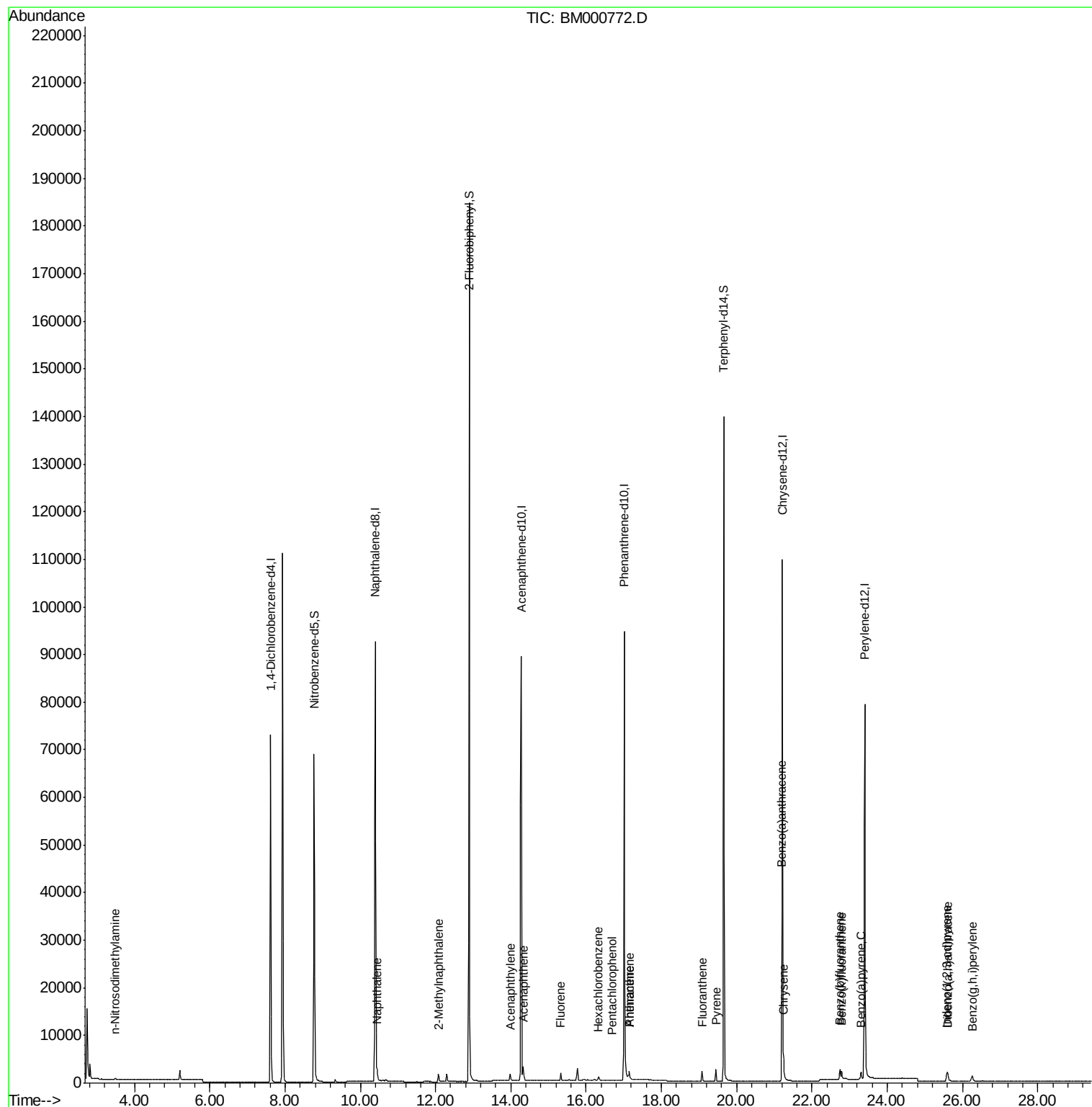
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.48	42	183	0.20	ng	# 97
6) Naphthalene	10.45	128	2256	0.08	ng	# 92
7) 2-Methylnaphthalene	12.08	142	1328	0.07	ng	96
10) Acenaphthylene	13.98	152	1761	0.07	ng	98
11) Acenaphthene	14.33	154	1368	0.07	ng	98
12) Fluorene	15.32	166	1568	0.08	ng	99
14) Hexachlorobenzene	16.33	284	604	0.08	ng	# 99
15) Pentachlorophenol	16.70	266	20	0.37	ng	# 61
16) Phenanthrene	17.15	178	2291	0.06	ng	99
17) Anthracene	17.15	178	2309	0.08	ng	99
18) Fluoranthene	19.09	202	2698	0.08	ng	100
20) Pyrene	19.45	202	2772	0.08	ng	99
22) Benzo(a)anthracene	21.20	228	2664	0.08	ng	97
23) Chrysene	21.25	228	2974	0.09	ng	# 91
24) Indeno(1,2,3-cd)pyrene	25.59	276	2708	0.08	ng	98
26) Benzo(b)fluoranthene	22.74	252	2486	0.08	ng	# 80
27) Benzo(k)fluoranthene	22.79	252	2663	0.09	ng	# 76
28) Benzo(a)pyrene	23.31	252	2191	0.08	ng	# 72
29) Dibenzo(a,h)anthracene	25.60	278	2146	0.08	ng	# 79
30) Benzo(g,h,i)perylene	26.26	276	2484	0.08	ng	91

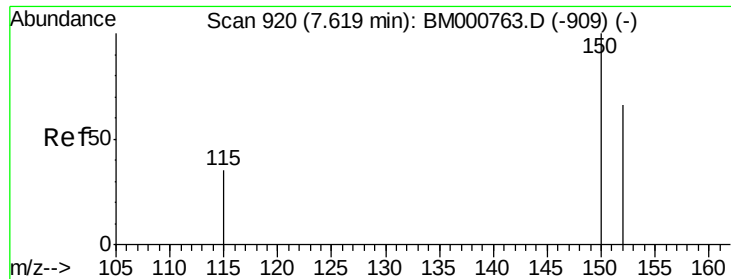
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

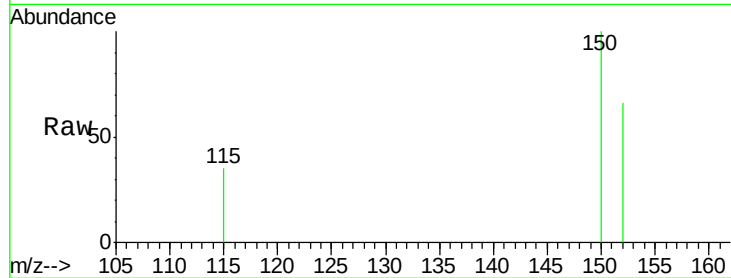
Tgt Ion:152 Resp: 37135

Ion Ratio Lower Upper

152 100

150 151.0 120.8 181.2

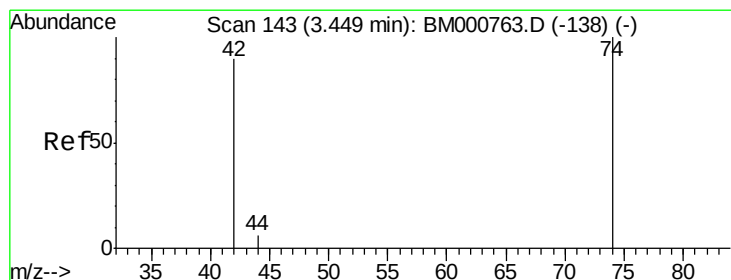
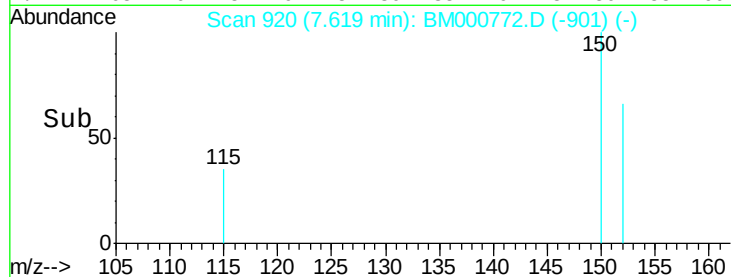
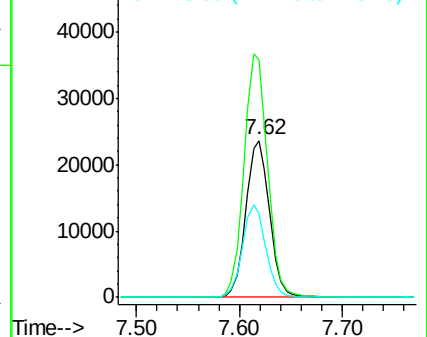
115 53.4 42.7 64.1



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



#3

n-Nitrosodimethylamine

Concen: 0.20 ng

RT: 3.48 min Scan# 149

Delta R.T. 0.03 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

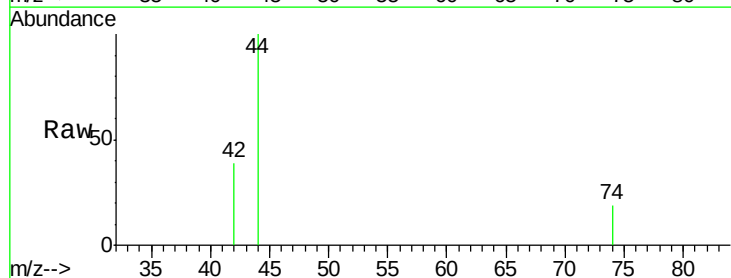
Tgt Ion: 42 Resp: 183

Ion Ratio Lower Upper

42 100

74 114.8 93.6 140.4

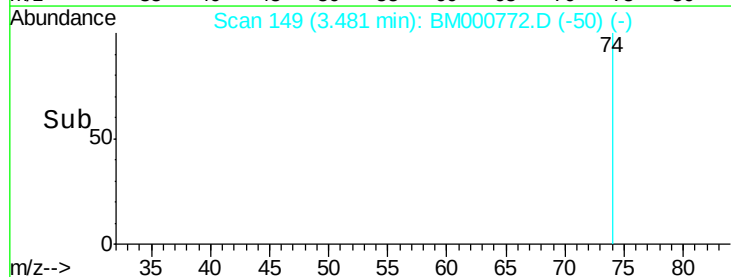
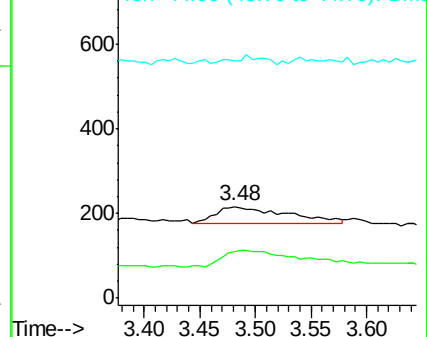
44 12.6 6.3 9.5#

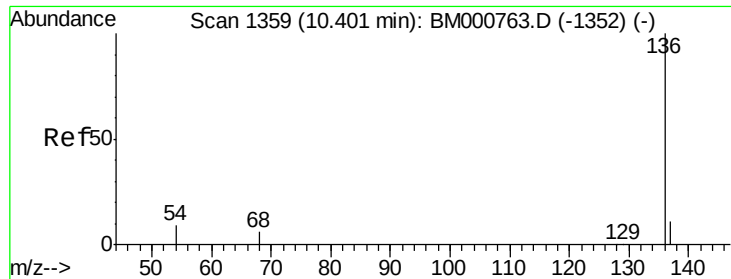


Abundance Ion 42.00 (41.70 to 42.70): BM0

Ion 74.00 (73.70 to 74.70): BM0

Ion 44.00 (43.70 to 44.70): BM0





#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.40 min Scan# 1359

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampled :

MDL-03-S

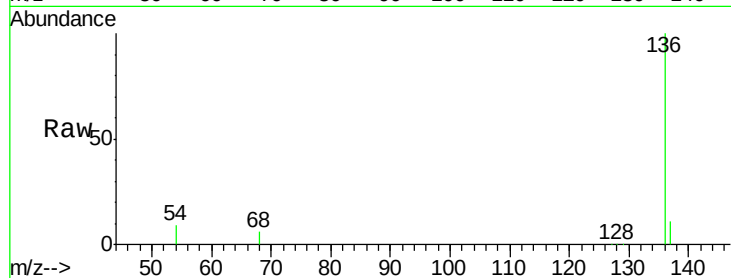
Tgt Ion: 136 Resp: 125864

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

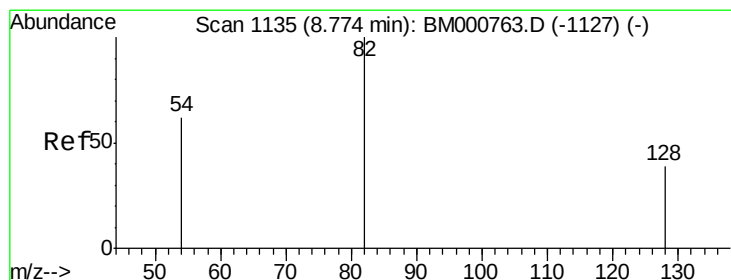
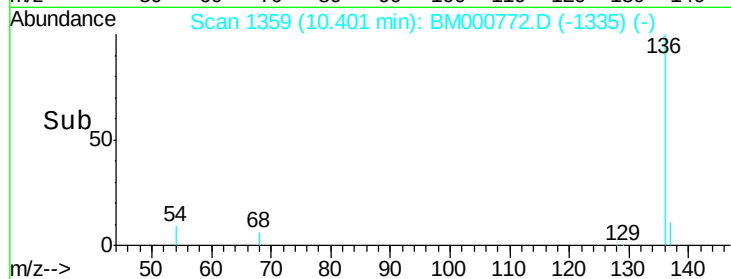
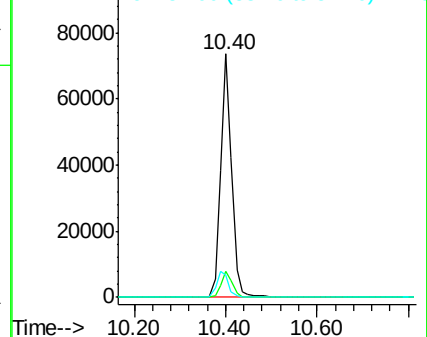
54 8.9 7.0 10.6



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: 7.78 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

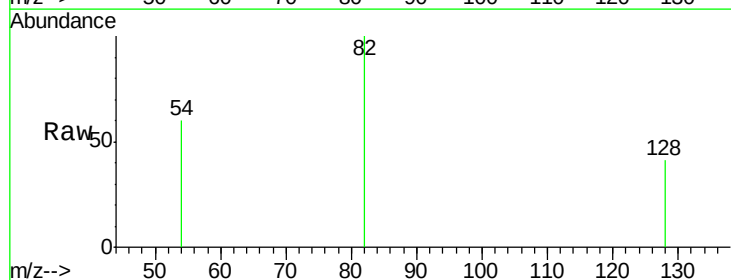
Tgt Ion: 82 Resp: 60037

Ion Ratio Lower Upper

82 100

128 40.6 32.2 48.2

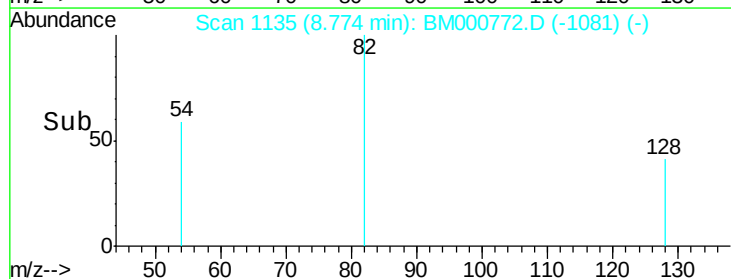
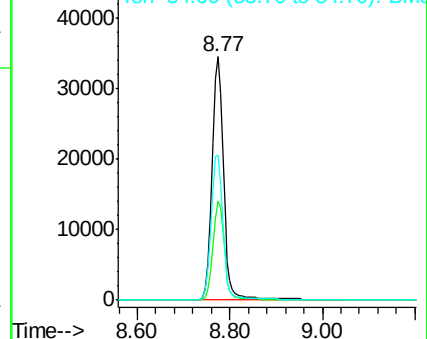
54 59.5 50.2 75.4

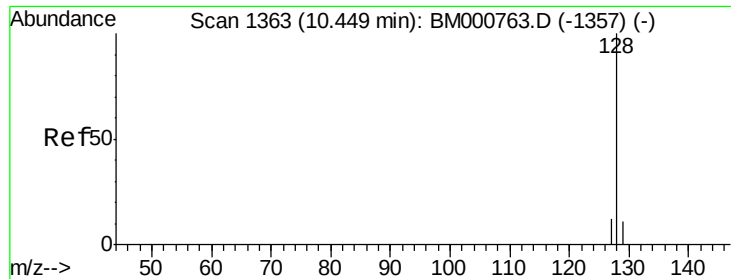


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





#6

Naphthalene

Concen: 0.08 ng

RT: 10.45 min Scan# 1363

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

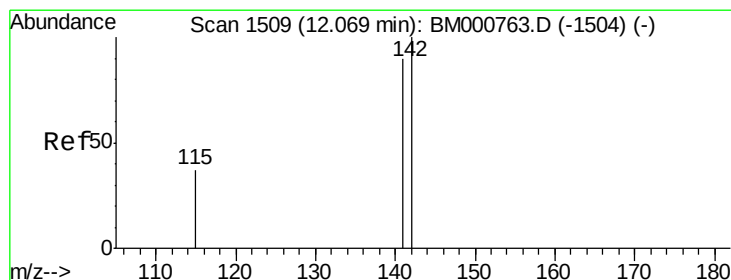
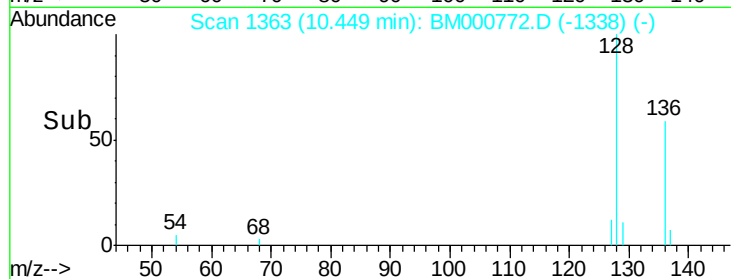
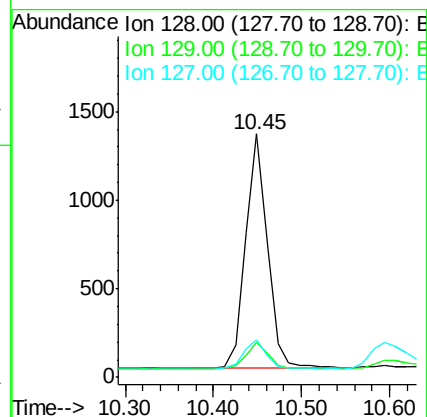
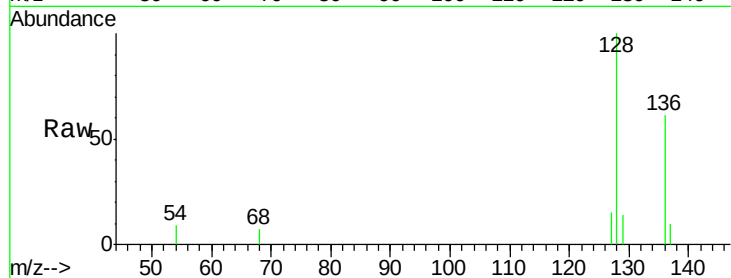
Tgt Ion:128 Resp: 2256

Ion Ratio Lower Upper

128 100

129 14.3 8.9 13.3#

127 15.3 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: BM000772.D

Acq: 01 Apr 2015 02:35

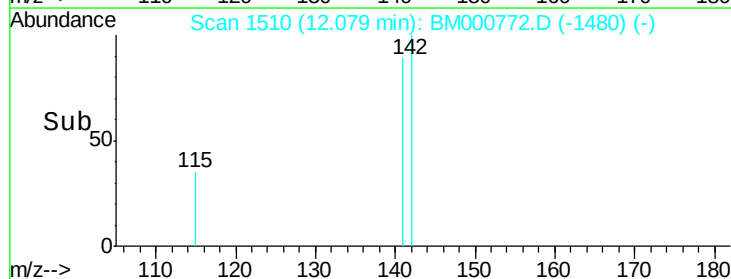
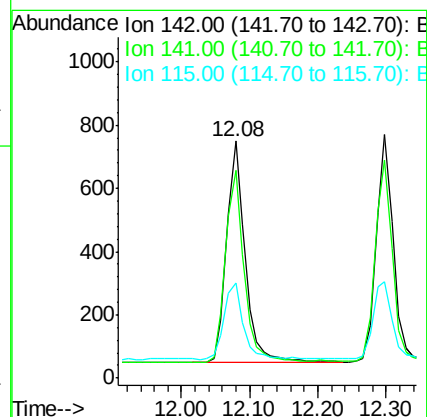
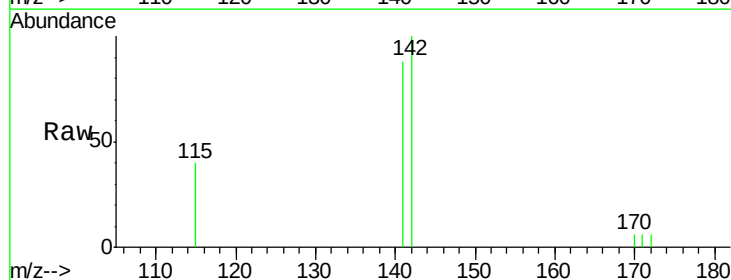
Tgt Ion:142 Resp: 1328

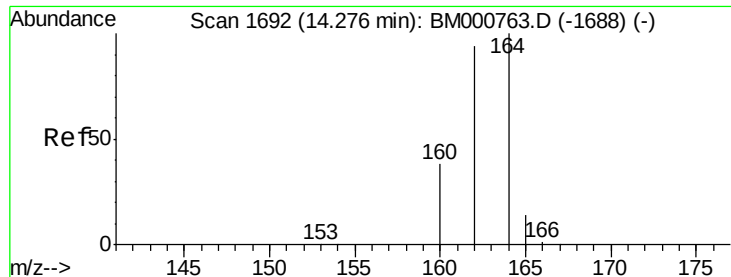
Ion Ratio Lower Upper

142 100

141 87.7 72.3 108.5

115 40.0 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: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

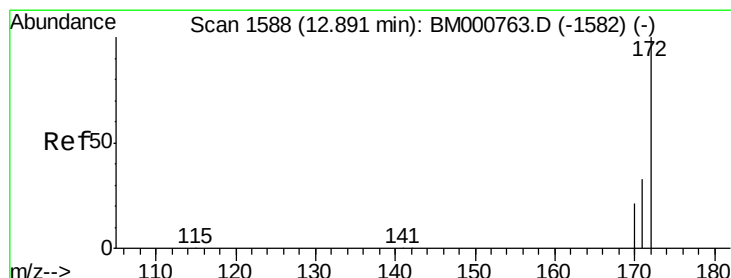
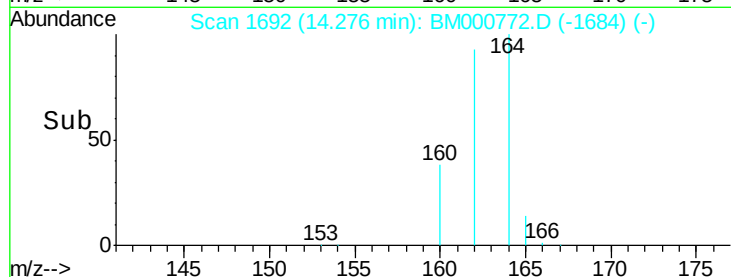
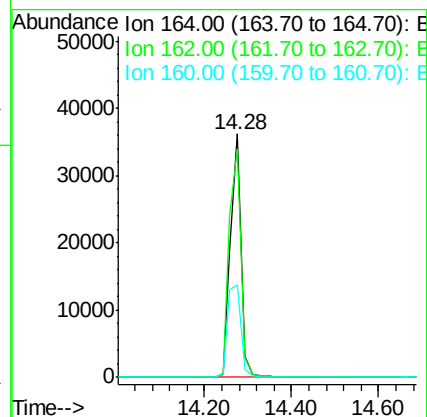
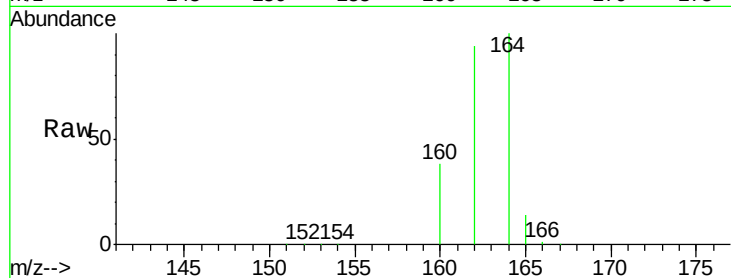
Tgt Ion:164 Resp: 60900

Ion Ratio Lower Upper

164 100

162 93.5 75.4 113.2

160 38.1 30.8 46.2



#9

2-Fluorobiphenyl

Concen: 9.57 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

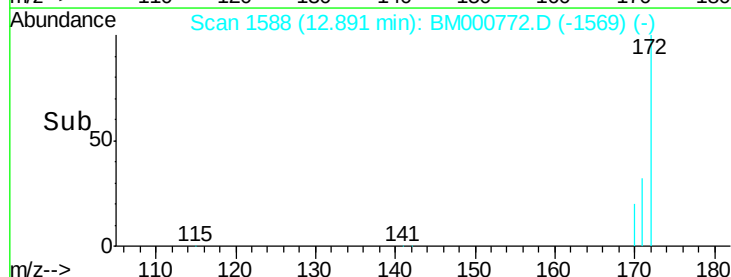
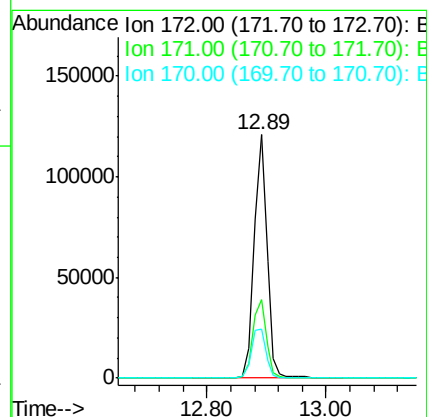
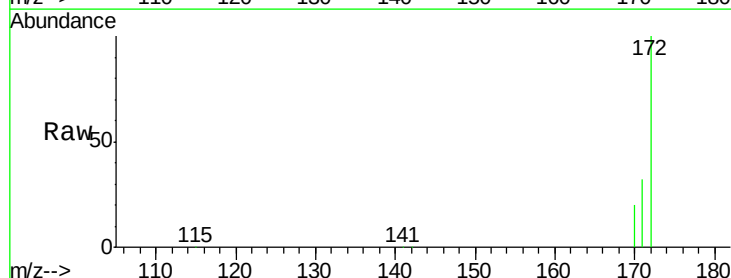
Tgt Ion:172 Resp: 180761

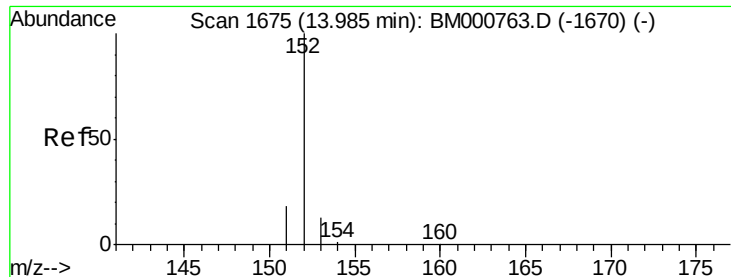
Ion Ratio Lower Upper

172 100

171 32.3 26.6 39.8

170 20.1 17.1 25.7





#10

Acenaphthylene

Concen: 0.07 ng

RT: 13.98 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

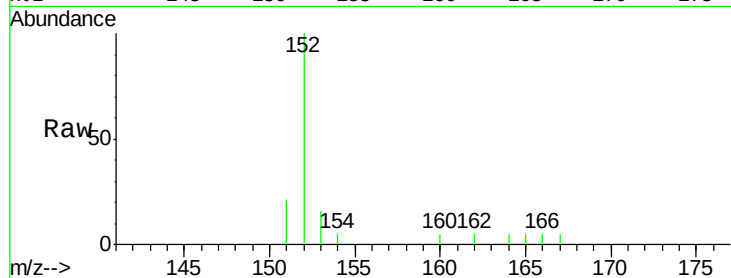
Tgt Ion:152 Resp: 1761

Ion Ratio Lower Upper

152 100

151 17.6 15.1 22.7

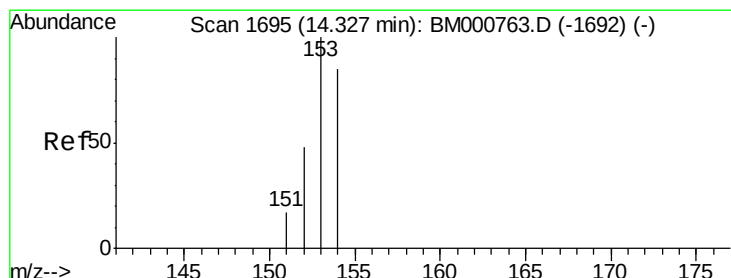
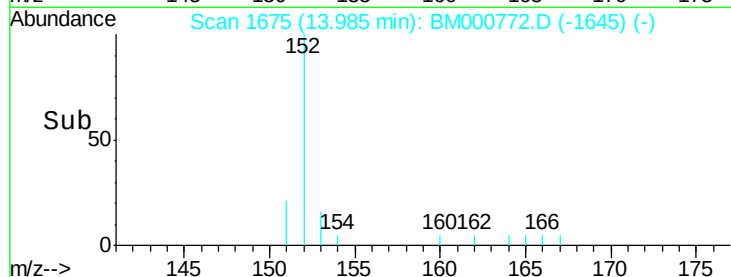
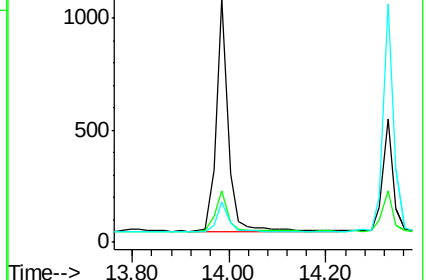
153 12.7 10.2 15.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#11

Acenaphthene

Concen: 0.07 ng

RT: 14.33 min Scan# 1695

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

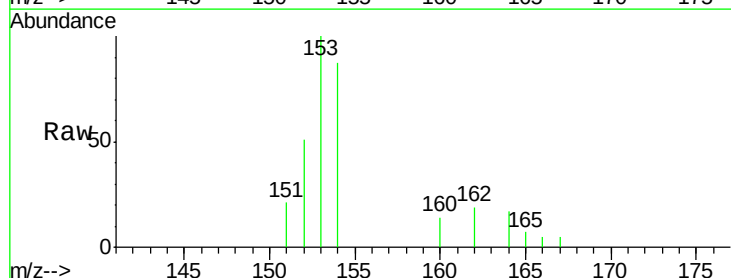
Tgt Ion:154 Resp: 1368

Ion Ratio Lower Upper

154 100

153 111.8 87.3 130.9

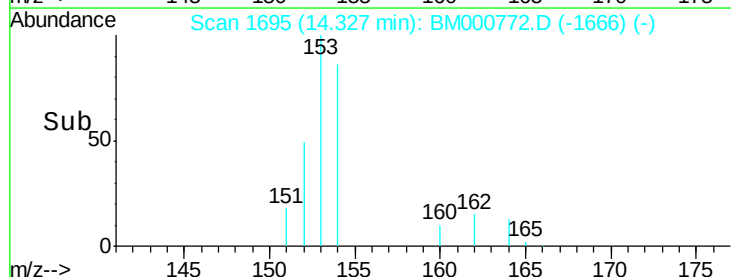
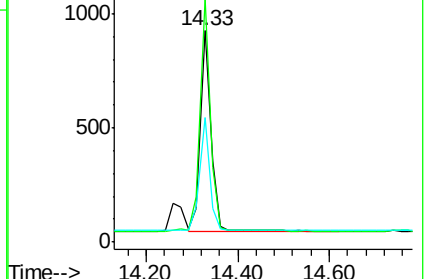
152 54.4 43.0 64.6

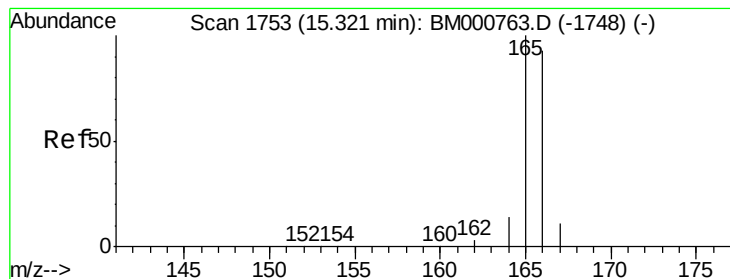


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#12

Fluorene

Concen: 0.08 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampled :

MDL-03-S

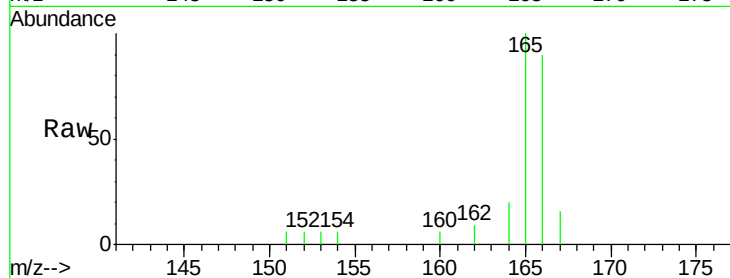
Tgt Ion:166 Resp: 1568

Ion Ratio Lower Upper

166 100

165 96.6 78.2 117.2

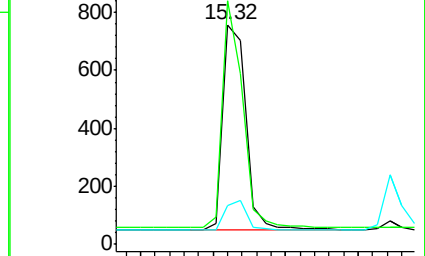
167 14.0 10.7 16.1



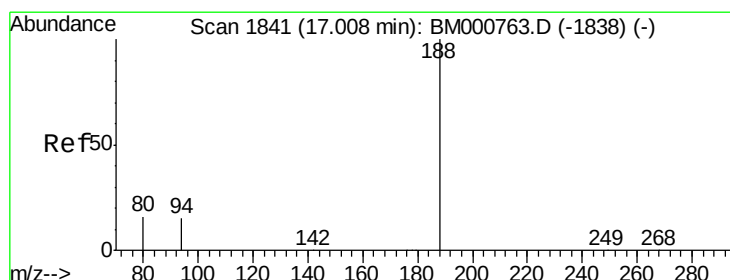
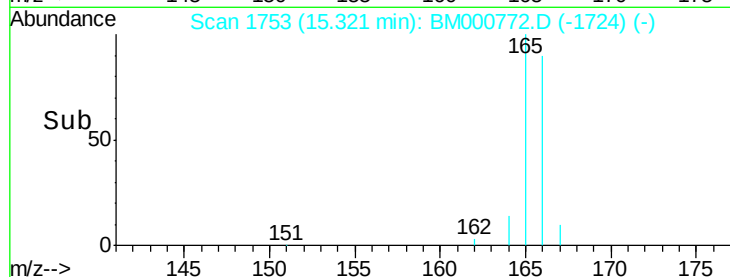
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

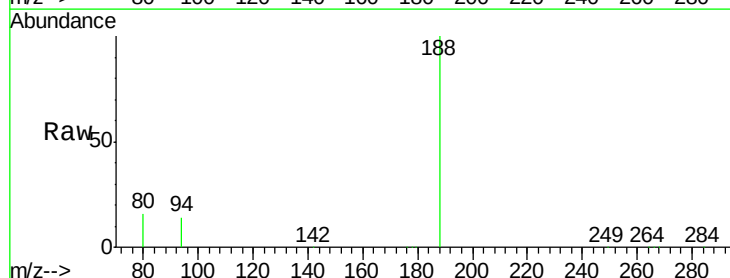
Tgt Ion:188 Resp: 128990

Ion Ratio Lower Upper

188 100

94 14.4 12.0 18.0

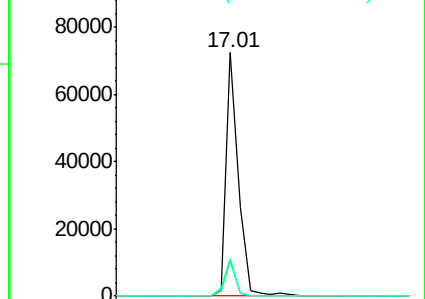
80 15.5 12.8 19.2



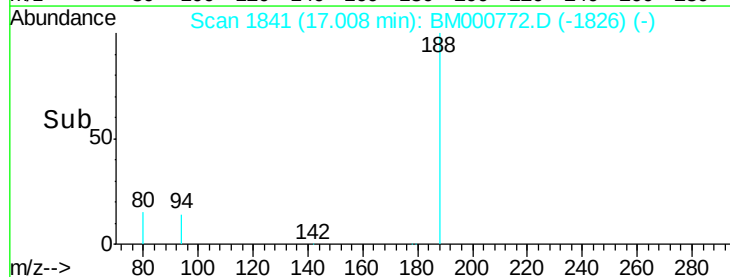
Abundance Ion 188.00 (187.70 to 188.70): E

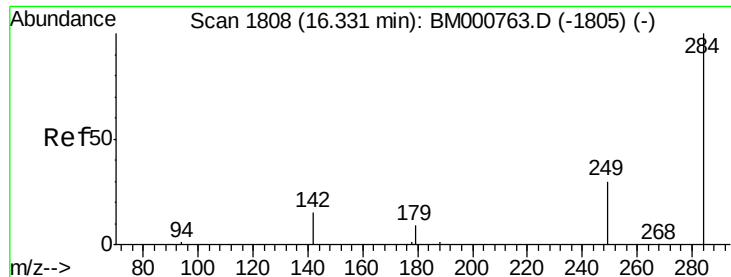
Ion 94.00 (93.70 to 94.70): BM

Ion 80.00 (79.70 to 80.70): BM



Time-->

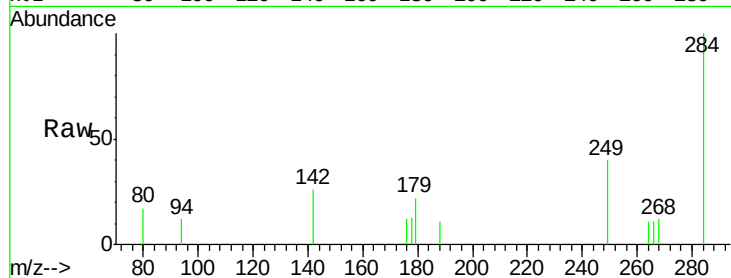




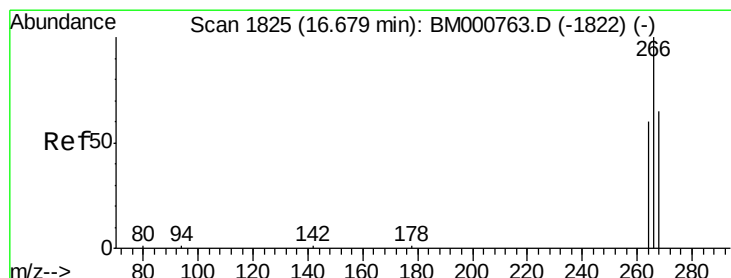
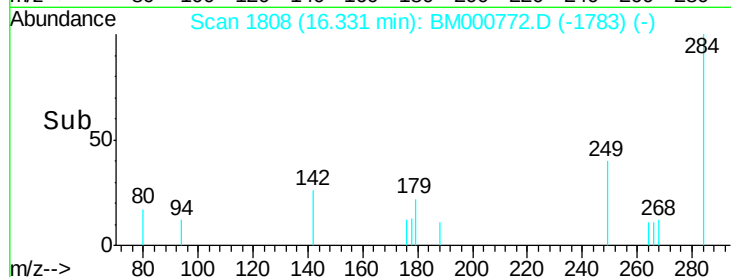
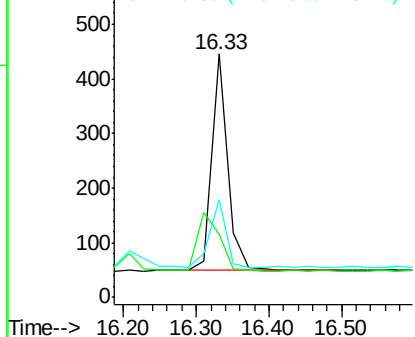
#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000772.D
Acq: 01 Apr 2015 02:35

Instrument :
BNA_M
ClientSampleId :
MDL-03-S

Tgt Ion: 284 Resp: 604
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 31.0 25.2 37.8

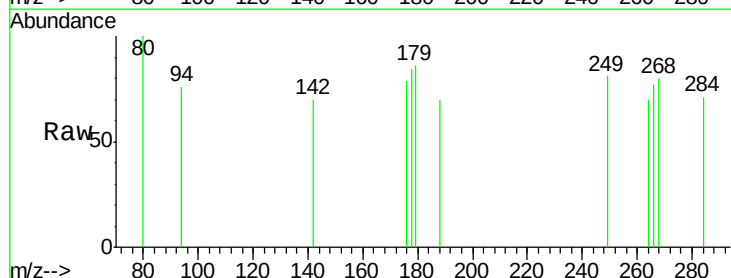


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

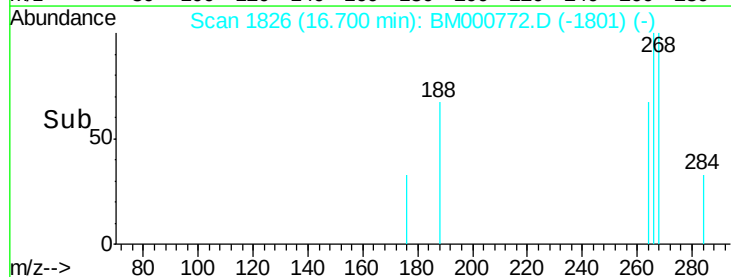
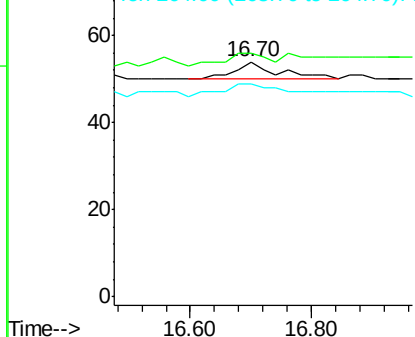


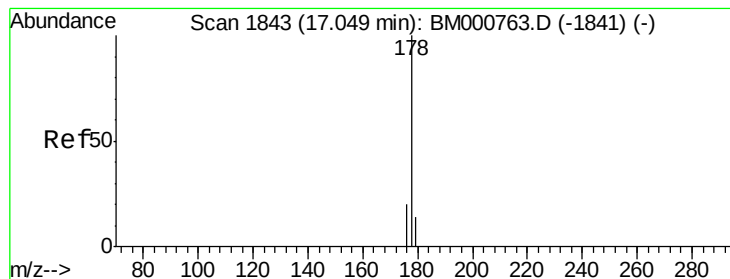
#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000772.D
Acq: 01 Apr 2015 02:35

Tgt Ion: 266 Resp: 20
Ion Ratio Lower Upper
266 100
268 103.7 55.0 82.6#
264 90.7 51.0 76.4#



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#16

Phenanthrene

Concen: 0.06 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.10 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

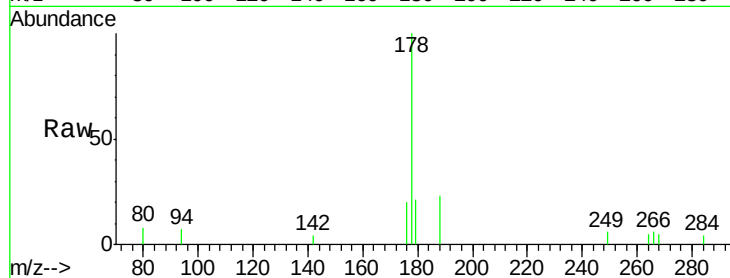
Tgt Ion:178 Resp: 2291

Ion Ratio Lower Upper

178 100

176 18.0 15.3 22.9

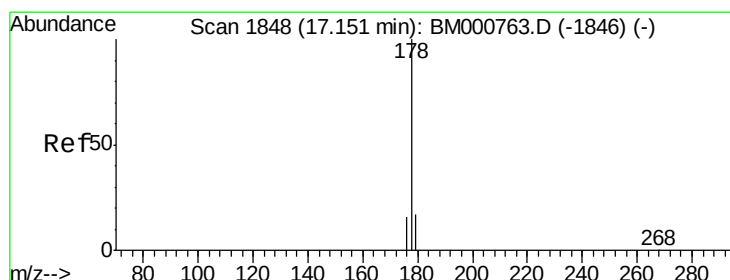
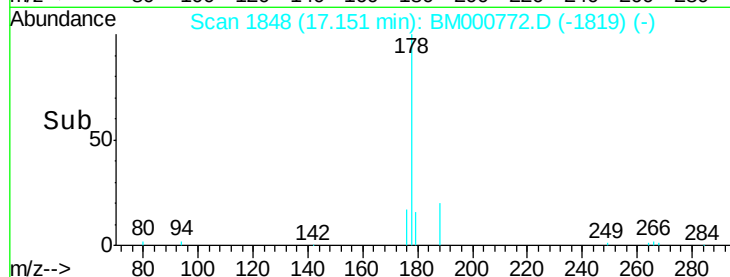
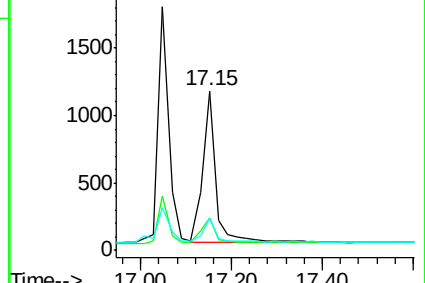
179 15.1 12.2 18.2



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: 0.08 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

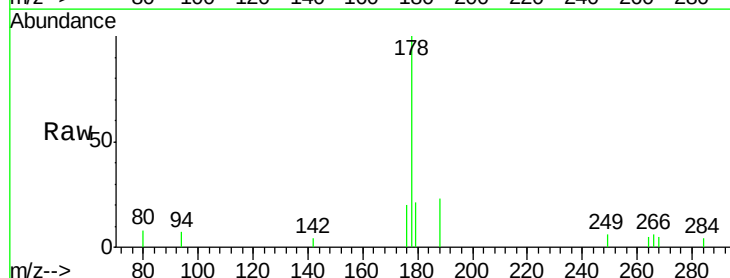
Tgt Ion:178 Resp: 2309

Ion Ratio Lower Upper

178 100

176 17.8 14.6 22.0

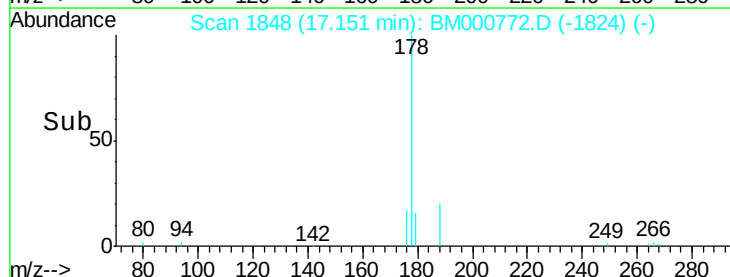
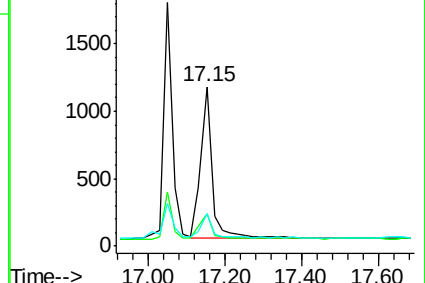
179 15.0 12.2 18.4

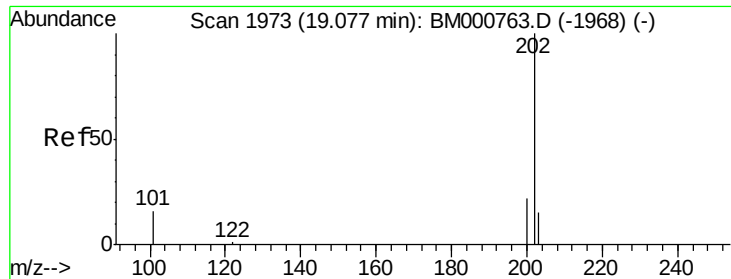


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

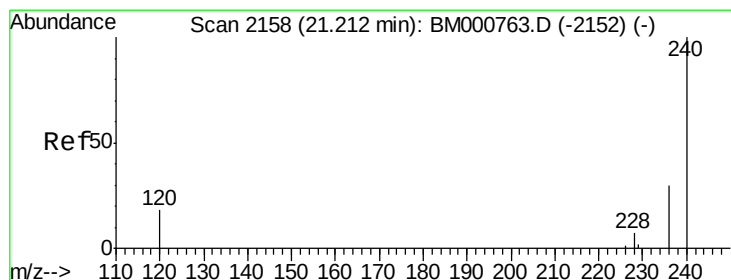
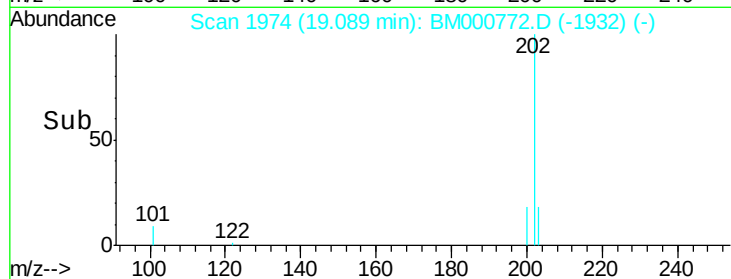
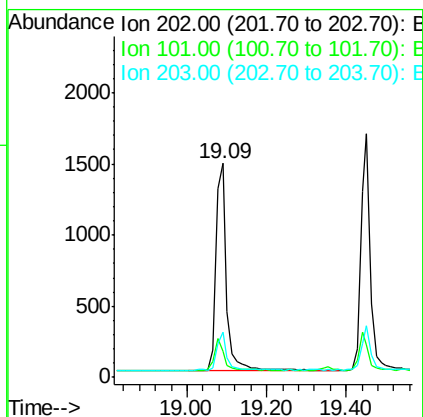
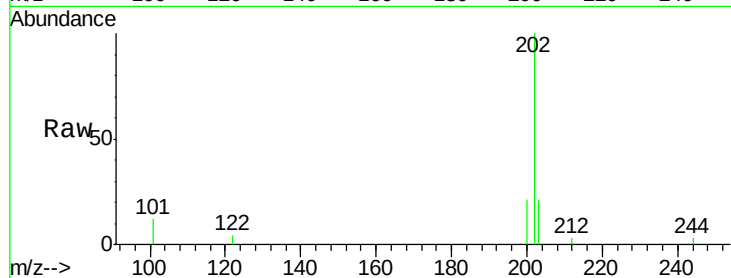




#18
Fluoranthene
Concen: 0.08 ng
RT: 19.09 min Scan# 1974
Delta R.T. 0.01 min
Lab File: BM000772.D
Acq: 01 Apr 2015 02:35

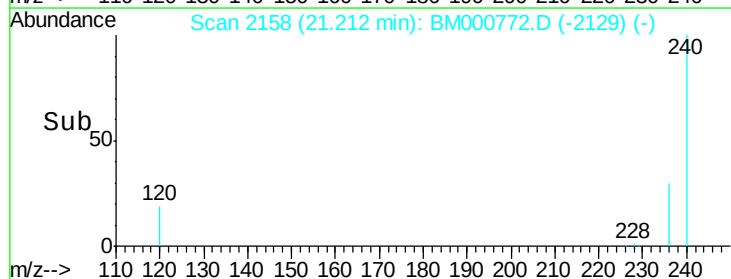
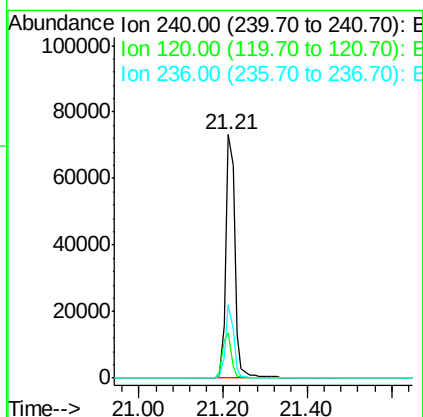
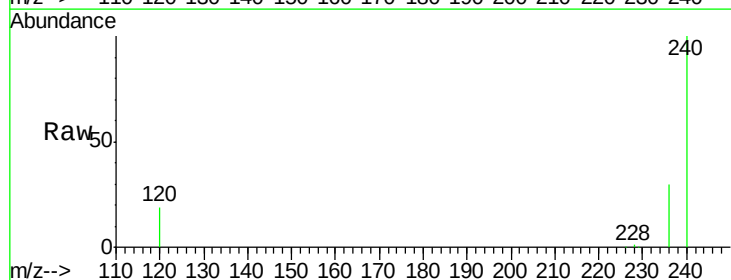
Instrument :
BNA_M
ClientSampleId :
MDL-03-S

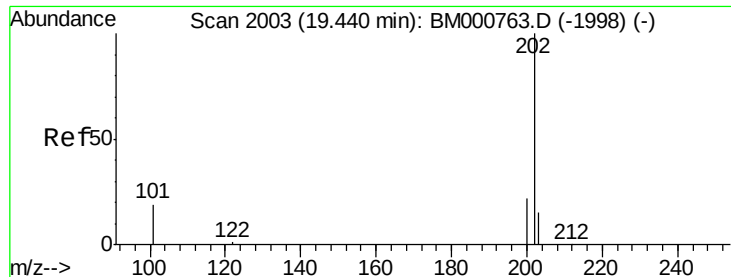
Tgt Ion: 202 Resp: 2698
Ion Ratio Lower Upper
202 100
101 13.0 10.5 15.7
203 17.2 13.8 20.8



#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.21 min Scan# 2158
Delta R.T. 0.00 min
Lab File: BM000772.D
Acq: 01 Apr 2015 02:35

Tgt Ion: 240 Resp: 110460
Ion Ratio Lower Upper
240 100
120 18.7 14.9 22.3
236 30.1 24.2 36.4





#20

Pyrene

Concen: 0.08 ng

RT: 19.45 min Scan# 2004

Delta R.T. 0.01 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

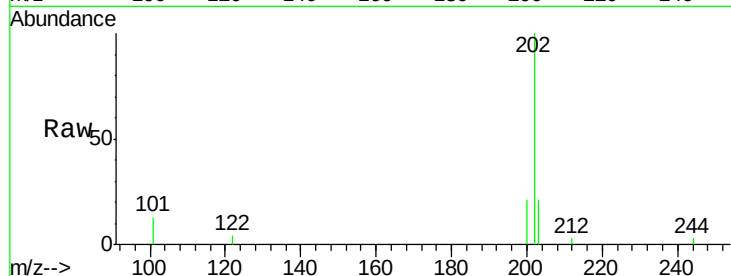
Tgt Ion:202 Resp: 2772

Ion Ratio Lower Upper

202 100

200 20.7 16.2 24.2

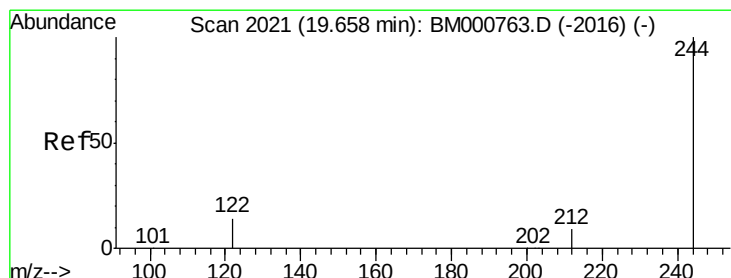
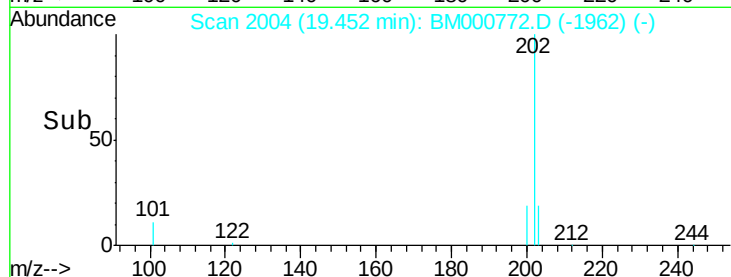
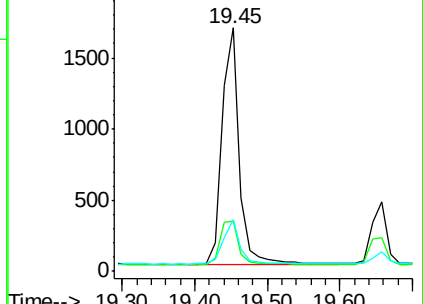
203 18.0 13.9 20.9



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: BM000772.D

Acq: 01 Apr 2015 02:35

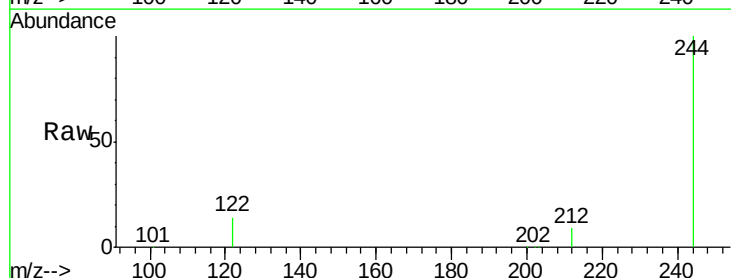
Tgt Ion:244 Resp: 139525

Ion Ratio Lower Upper

244 100

212 9.3 7.8 11.6

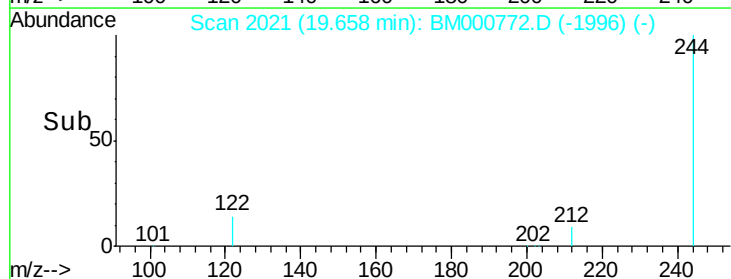
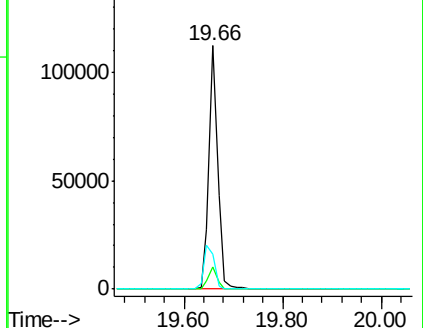
122 14.4 11.8 17.8

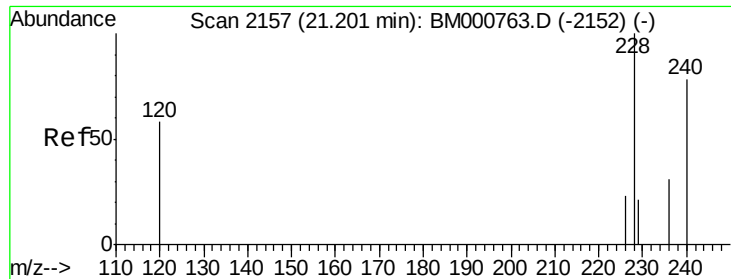


Abundance Ion 244.00 (243.70 to 244.70): E

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: 21.20 min Scan# 2157

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

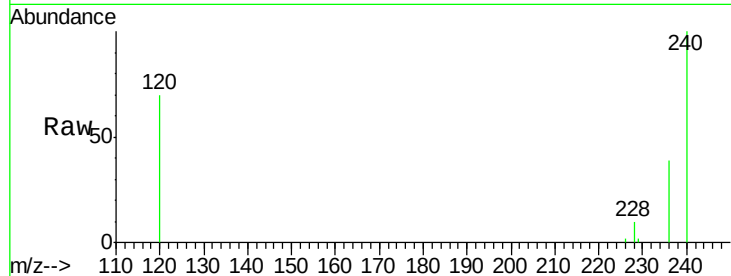
Tgt Ion:228 Resp: 2664

Ion Ratio Lower Upper

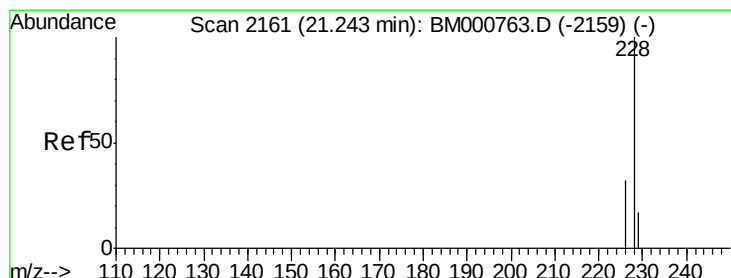
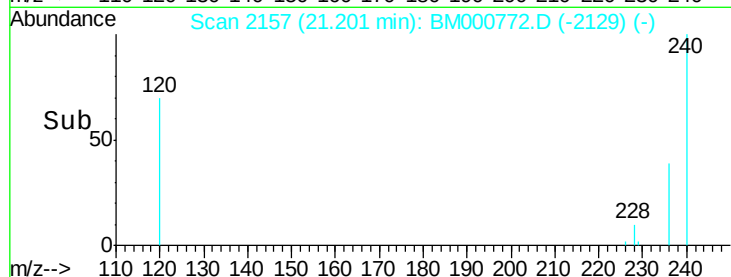
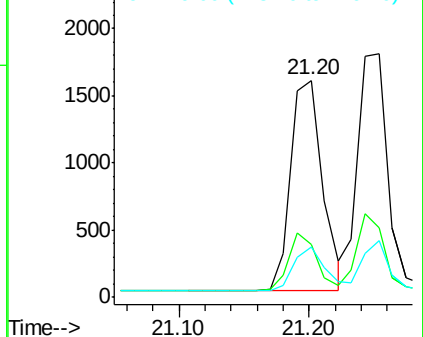
228 100

226 24.5 18.6 27.8

229 23.3 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: 0.09 ng

RT: 21.25 min Scan# 2162

Delta R.T. 0.01 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

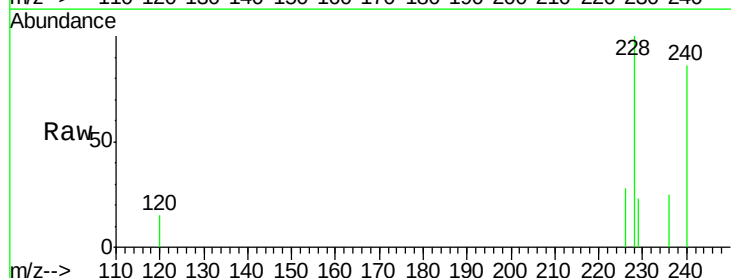
Tgt Ion:228 Resp: 2974

Ion Ratio Lower Upper

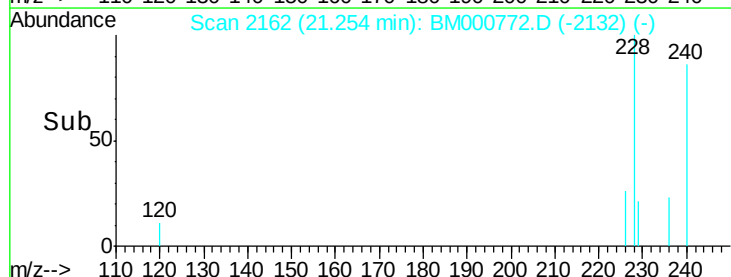
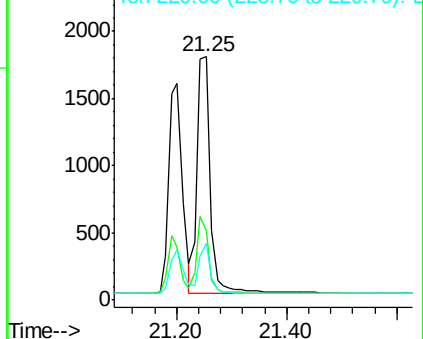
228 100

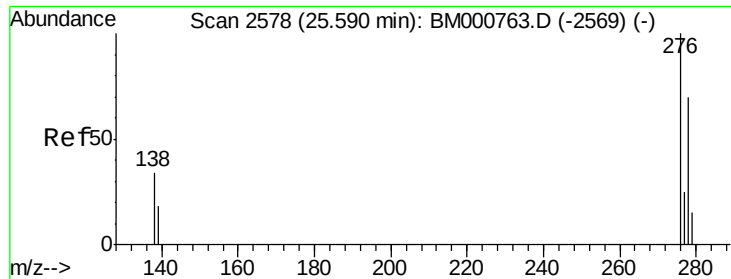
226 28.4 25.8 38.8

229 23.3 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

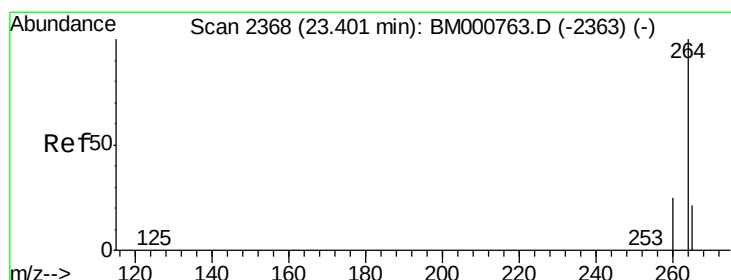
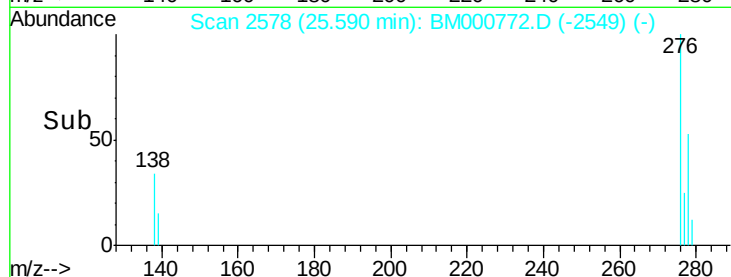
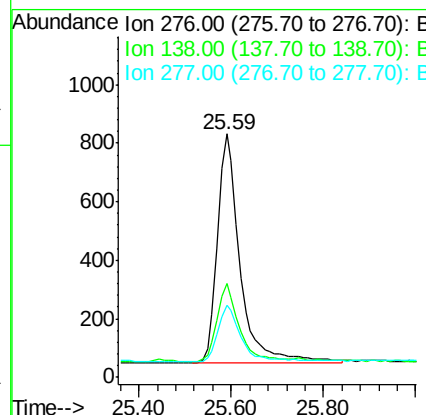
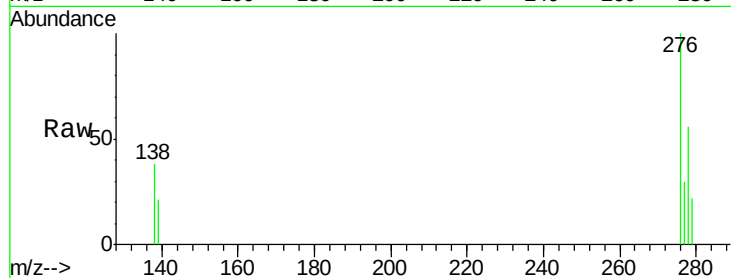




#24
 Indeno(1,2,3-cd)pyrene
 Concen: 0.08 ng
 RT: 25.59 min Scan# 2578
 Delta R.T. 0.00 min
 Lab File: BM000772.D
 Acq: 01 Apr 2015 02:35

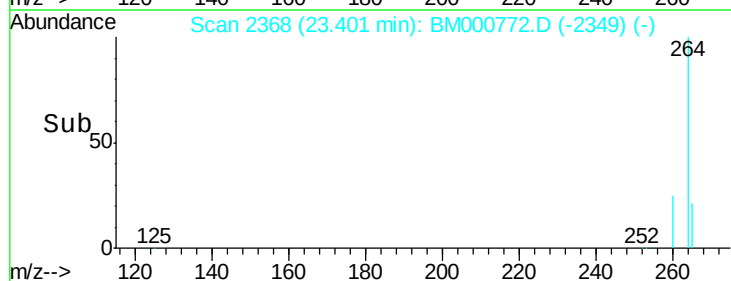
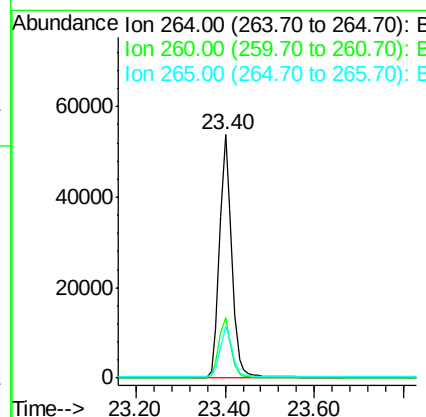
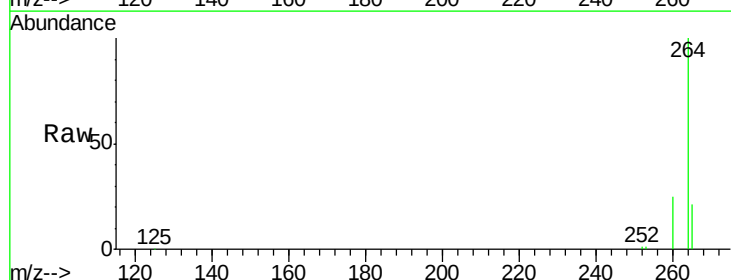
Instrument :
 BNA_M
 ClientSampleId :
 MDL-03-S

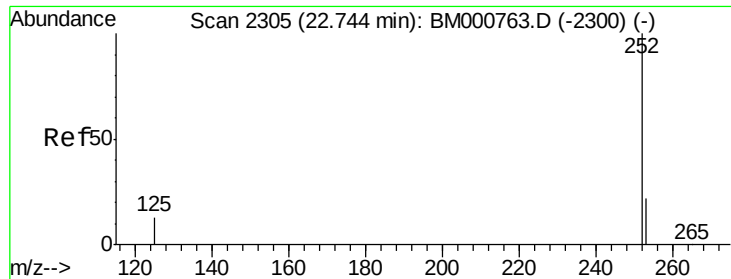
Tgt Ion: 276 Resp: 2708
 Ion Ratio Lower Upper
 276 100
 138 32.8 27.4 41.2
 277 24.8 19.7 29.5



#25
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.40 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: BM000772.D
 Acq: 01 Apr 2015 02:35

Tgt Ion: 264 Resp: 102790
 Ion Ratio Lower Upper
 264 100
 260 25.1 20.1 30.1
 265 21.2 17.4 26.0





#26

Benzo(b)fluoranthene

Concen: 0.08 ng

RT: 22.74 min Scan# 2305

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

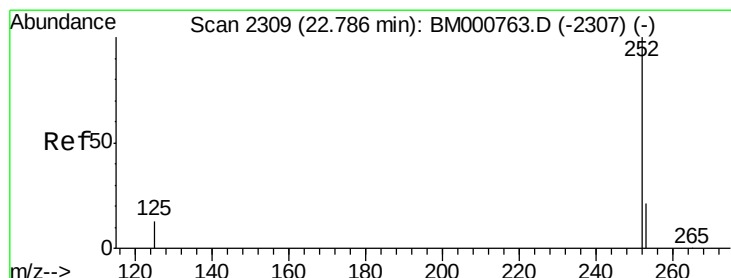
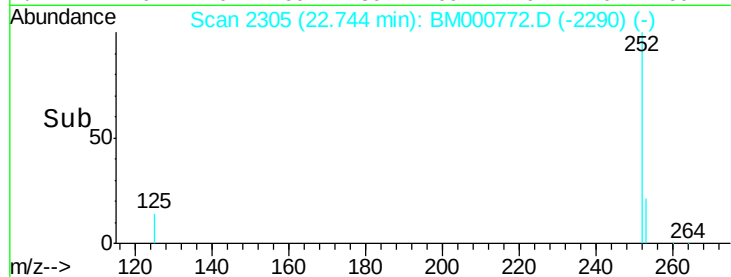
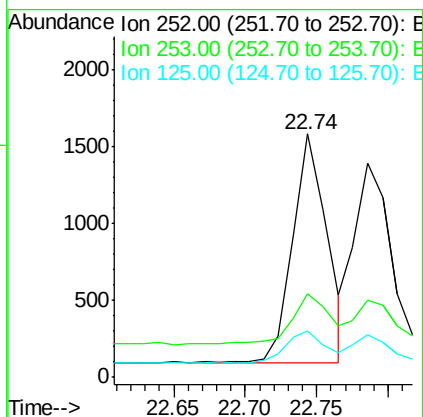
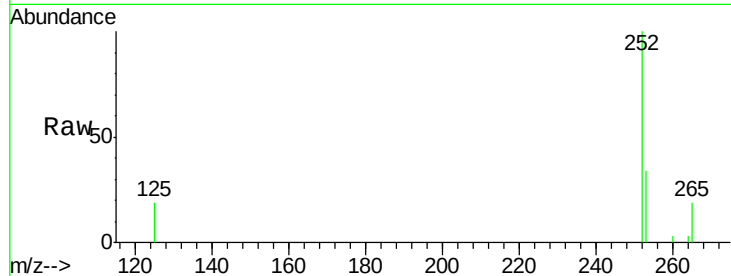
Tgt Ion:252 Resp: 2486

Ion Ratio Lower Upper

252 100

253 34.3 18.5 27.7#

125 19.2 10.6 16.0#



#27

Benzo(k)fluoranthene

Concen: 0.09 ng

RT: 22.79 min Scan# 2309

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

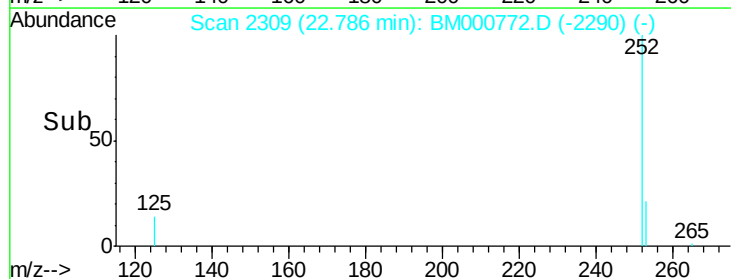
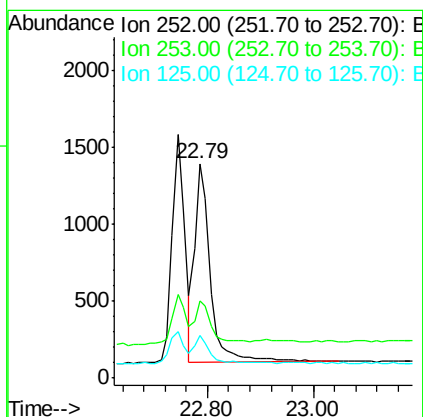
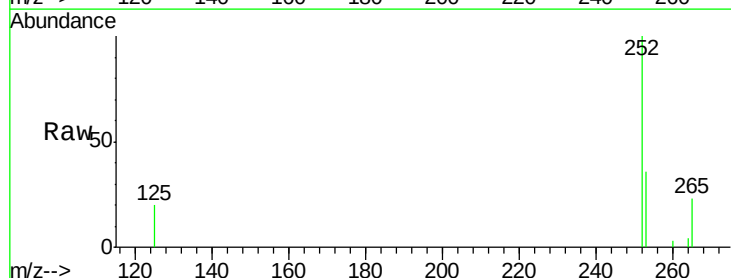
Tgt Ion:252 Resp: 2663

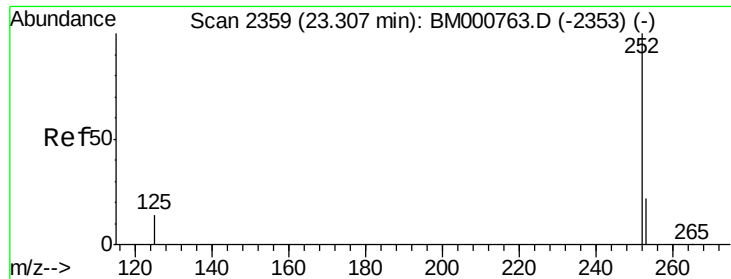
Ion Ratio Lower Upper

252 100

253 36.1 17.9 26.9#

125 19.7 10.8 16.2#





#28

Benzo(a)pyrene

Concen: 0.08 ng

RT: 23.31 min Scan# 2359

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S

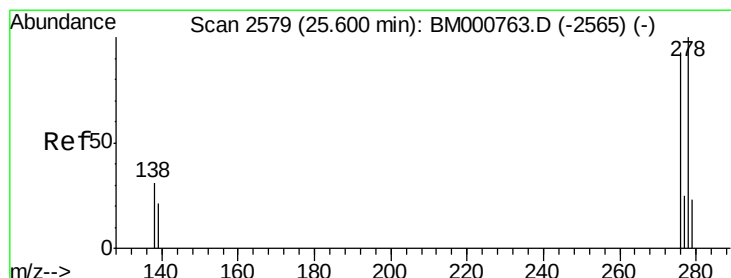
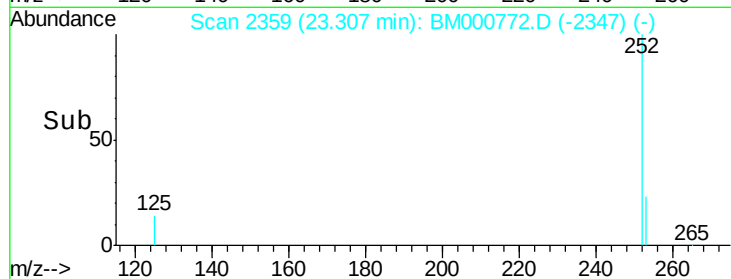
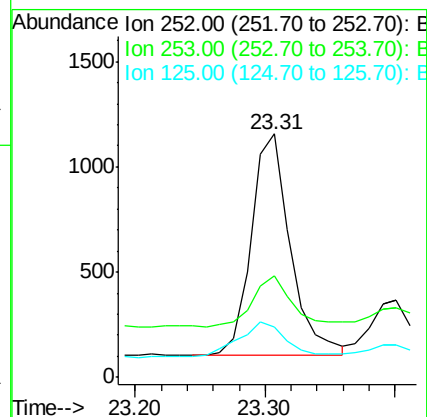
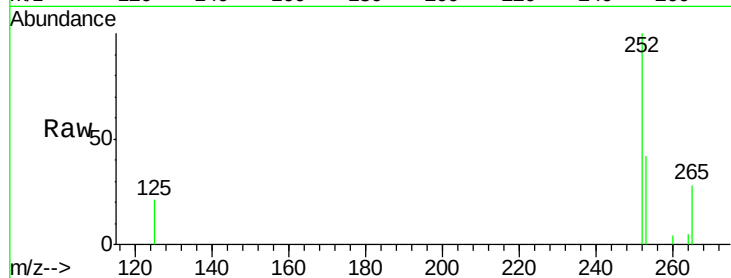
Tgt Ion:252 Resp: 2191

Ion Ratio Lower Upper

252 100

253 41.7 19.4 29.2#

125 20.9 11.5 17.3#



#29

Dibenzo(a,h)anthracene

Concen: 0.08 ng

RT: 25.60 min Scan# 2579

Delta R.T. 0.00 min

Lab File: BM000772.D

Acq: 01 Apr 2015 02:35

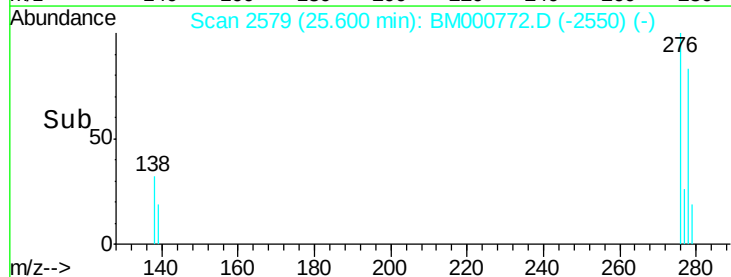
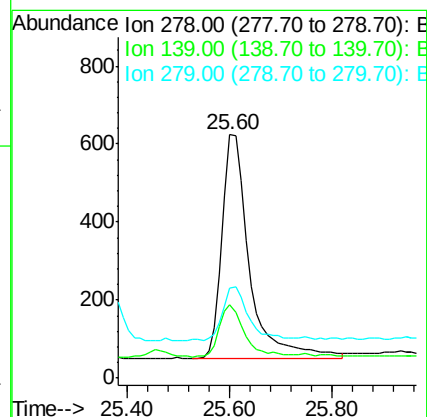
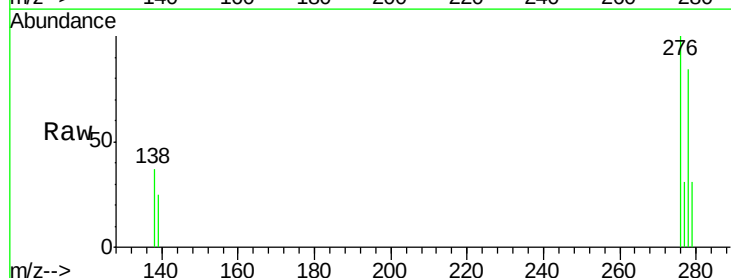
Tgt Ion:278 Resp: 2146

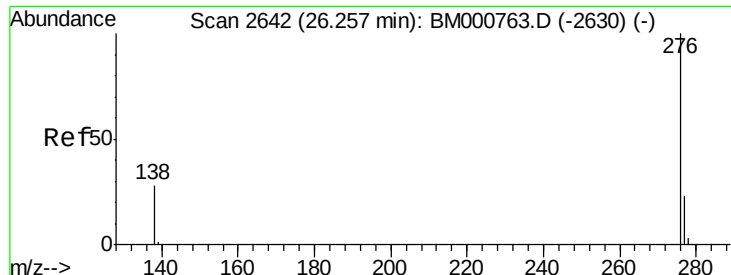
Ion Ratio Lower Upper

278 100

139 30.0 17.8 26.6#

279 36.7 19.3 28.9#





#30

Benzo(g,h,i)perylene

Concen: 0.08 ng

RT: 26.26 min Scan# 2642

Delta R.T. 0.00 min

Lab File: BM000772.D

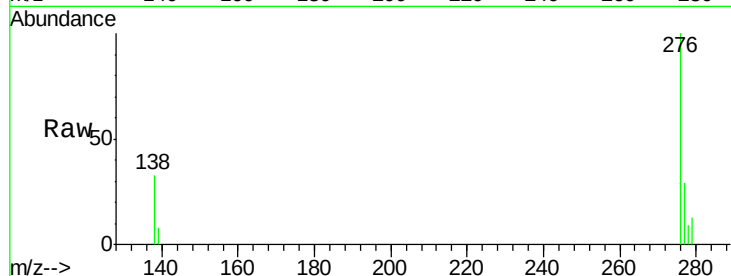
Acq: 01 Apr 2015 02:35

Instrument :

BNA_M

ClientSampleId :

MDL-03-S



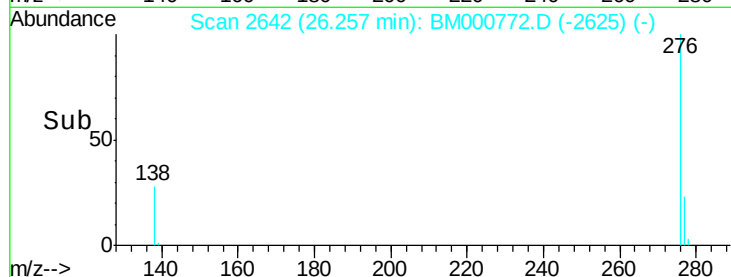
Tgt Ion: 276 Resp: 2484

Ion Ratio Lower Upper

276 100

277 28.6 19.1 28.7

138 33.0 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

