

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000773.D
 Acq On : 01 Apr 2015 03:11
 Operator : TP/IZ
 Sample : MDL-04-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Quant Time: Apr 01 15:09:15 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	40555	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	137793	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	67376	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	141941	5.00	ng	0.00
19) Chrysene-d12	21.21	240	118826	5.00	ng	0.00
25) Perylene-d12	23.40	264	110360	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	59038	7.00	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	177020	8.47	ng	0.00
21) Terphenyl-d14	19.66	244	131577	9.20	ng	0.00

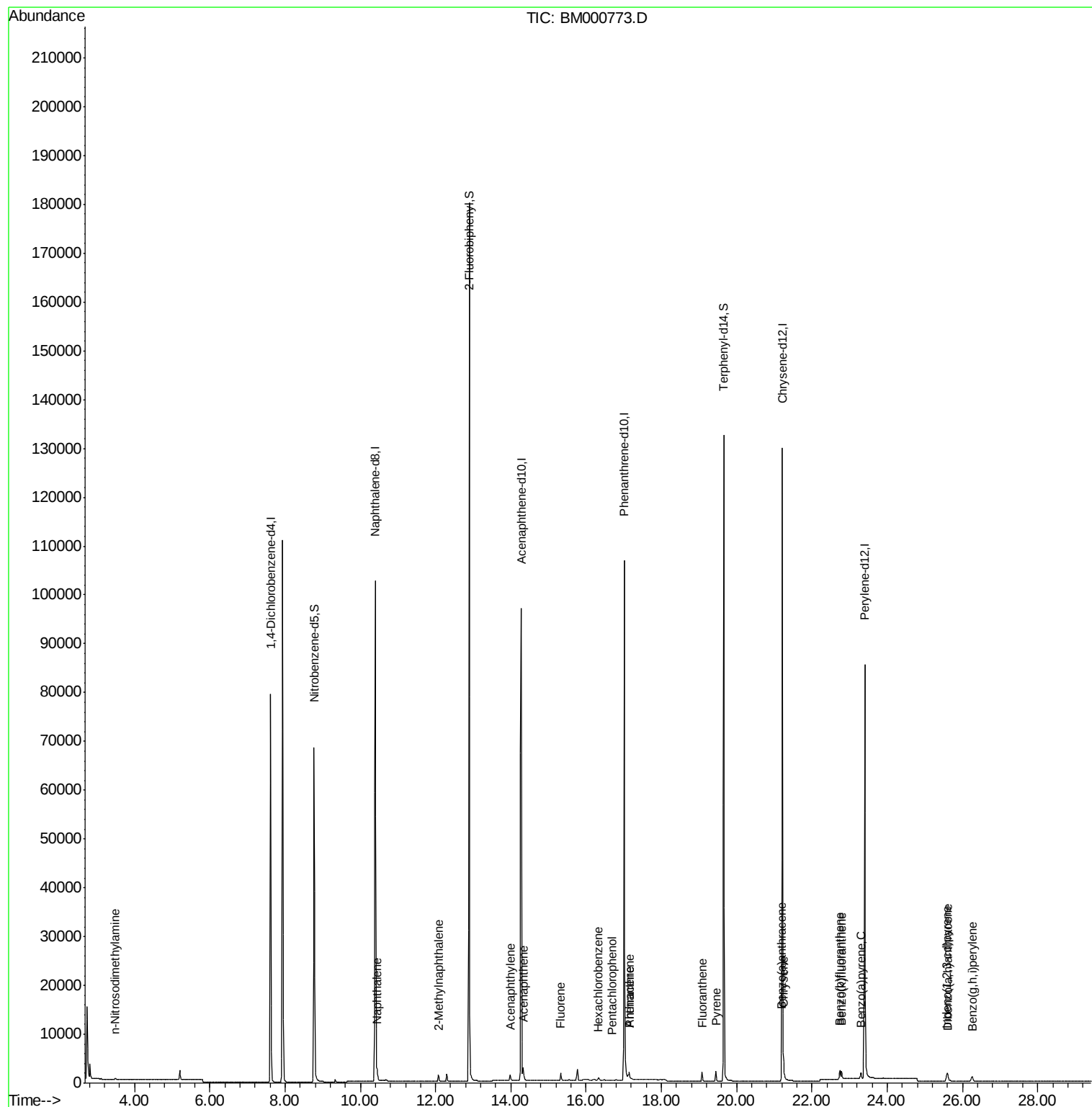
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.48	42	149	0.19	ng	# 88
6) Naphthalene	10.45	128	2116	0.07	ng	# 92
7) 2-Methylnaphthalene	12.08	142	1269	0.06	ng	97
10) Acenaphthylene	13.98	152	1619	0.05	ng	100
11) Acenaphthene	14.33	154	1261	0.06	ng	96
12) Fluorene	15.32	166	1479	0.06	ng	98
14) Hexachlorobenzene	16.33	284	563	0.07	ng	# 97
15) Pentachlorophenol	16.70	266	17	0.37	ng	# 61
16) Phenanthrene	17.15	178	2059	0.05	ng	97
17) Anthracene	17.15	178	2105	0.06	ng	97
18) Fluoranthene	19.09	202	2412	0.06	ng	99
20) Pyrene	19.45	202	2464	0.06	ng	98
22) Benzo(a)anthracene	21.19	228	2423	0.07	ng	# 90
23) Chrysene	21.24	228	2547	0.07	ng	96
24) Indeno(1,2,3-cd)pyrene	25.59	276	2364	0.06	ng	99
26) Benzo(b)fluoranthene	22.74	252	2201	0.06	ng	# 75
27) Benzo(k)fluoranthene	22.79	252	2246	0.07	ng	# 75
28) Benzo(a)pyrene	23.30	252	1961	0.07	ng	# 68
29) Dibenzo(a,h)anthracene	25.61	278	1910	0.06	ng	# 74
30) Benzo(g,h,i)perylene	26.26	276	2191	0.07	ng	# 91

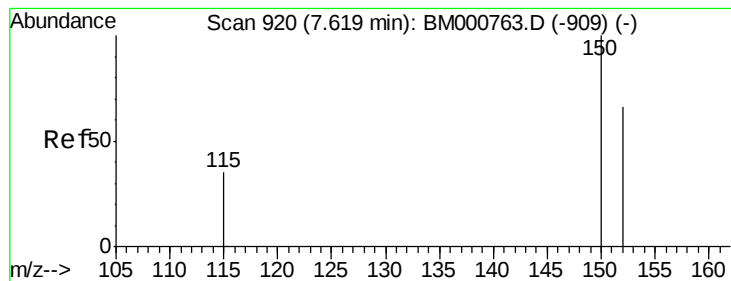
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

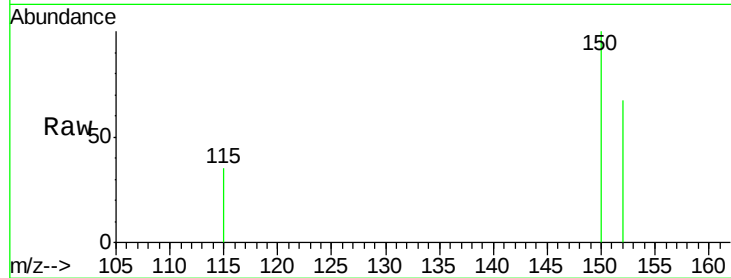
Tgt Ion:152 Resp: 40555

Ion Ratio Lower Upper

152 100

150 149.2 120.8 181.2

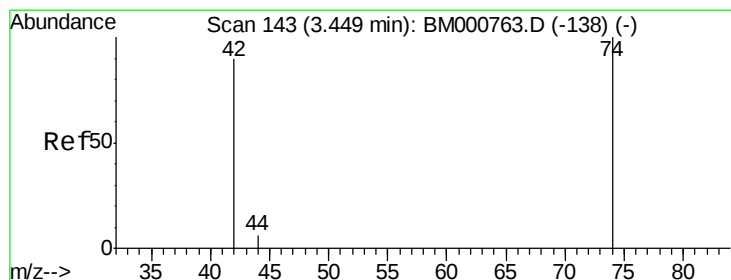
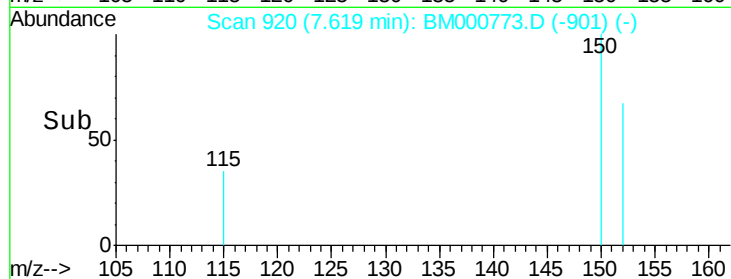
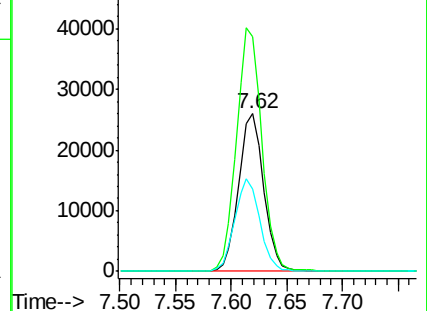
115 52.2 42.7 64.1



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: 0.19 ng

RT: 3.48 min Scan# 149

Delta R.T. 0.03 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

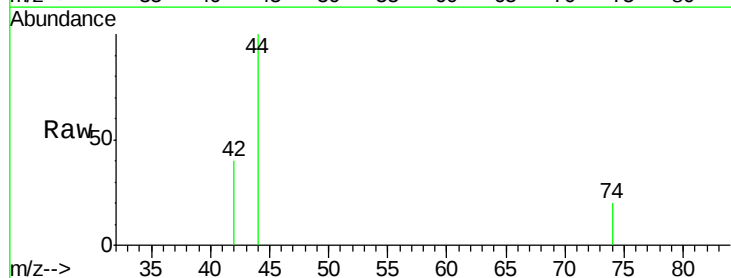
Tgt Ion: 42 Resp: 149

Ion Ratio Lower Upper

42 100

74 126.8 93.6 140.4

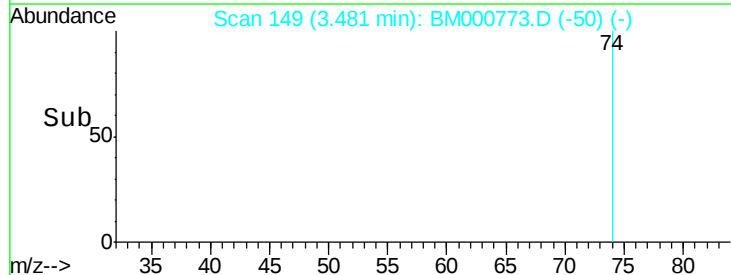
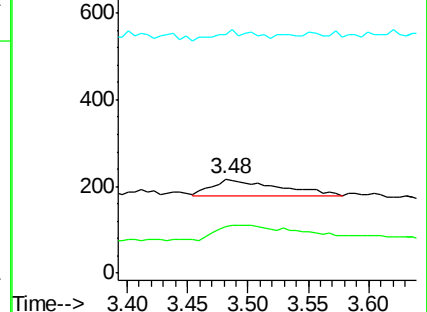
44 26.2 6.3 9.5#



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: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

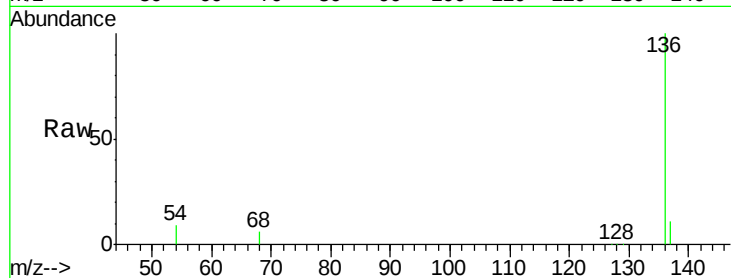
Tgt Ion:136 Resp: 137793

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

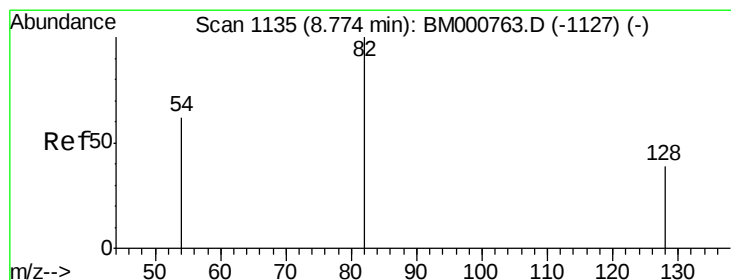
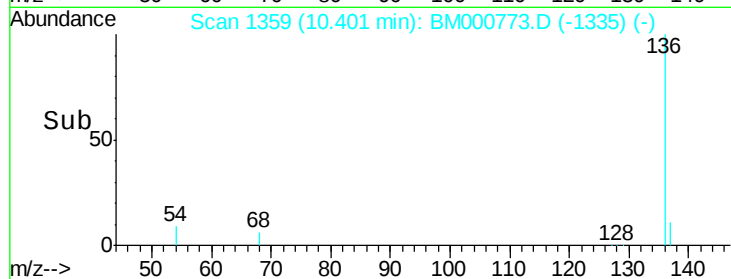
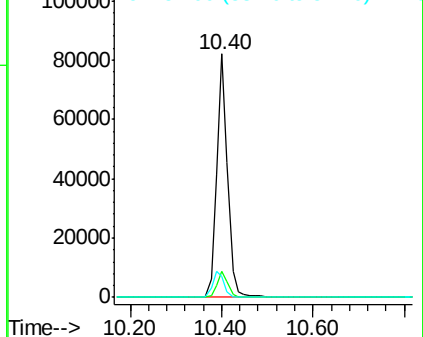
54 8.6 7.0 10.6



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: 7.00 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

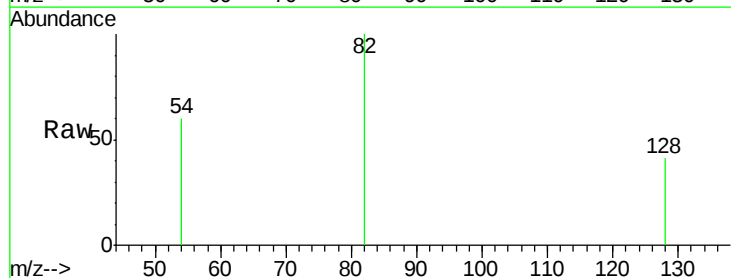
Tgt Ion: 82 Resp: 59038

Ion Ratio Lower Upper

82 100

128 41.0 32.2 48.2

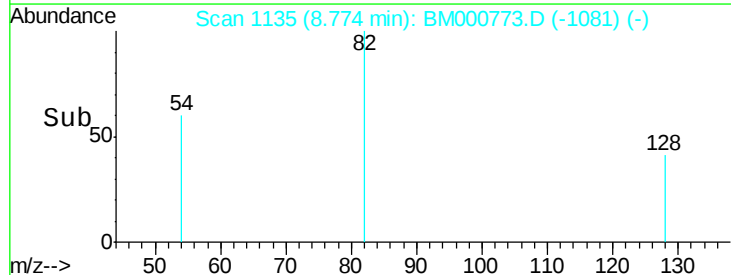
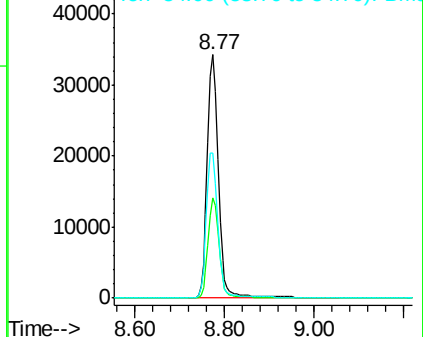
54 59.8 50.2 75.4



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: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

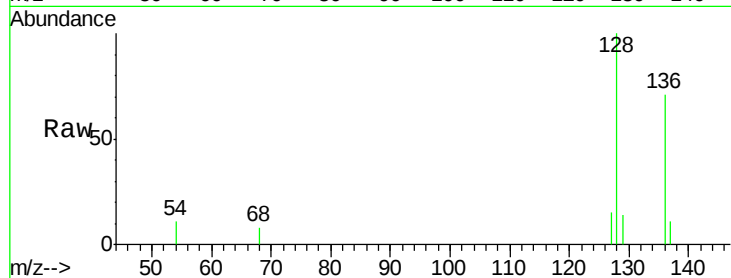
Tgt Ion:128 Resp: 2116

Ion Ratio Lower Upper

128 100

129 14.4 8.9 13.3#

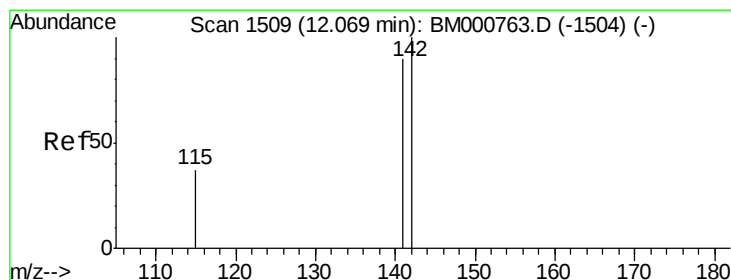
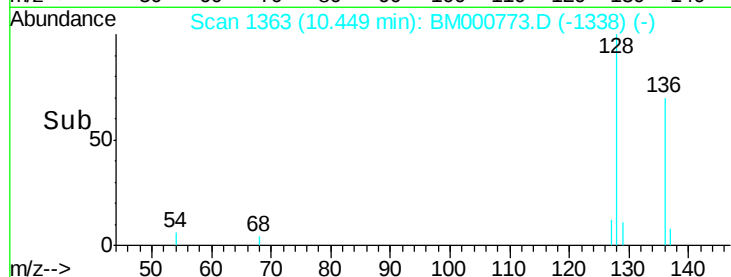
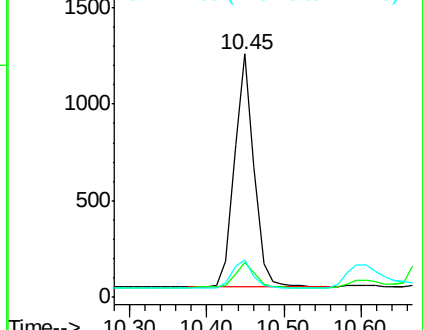
127 15.5 10.0 15.0#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.06 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

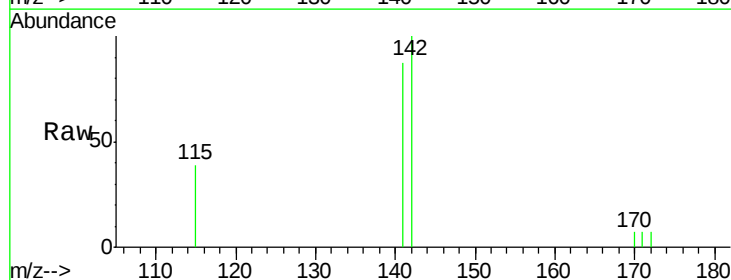
Tgt Ion:142 Resp: 1269

Ion Ratio Lower Upper

142 100

141 87.4 72.3 108.5

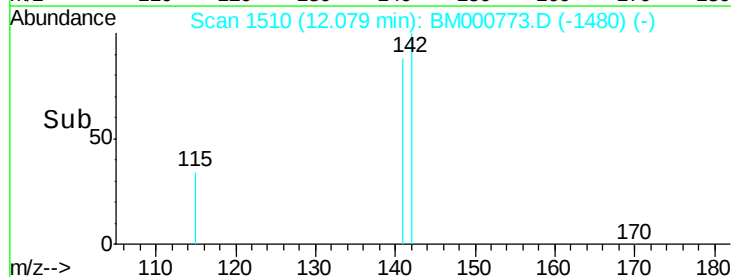
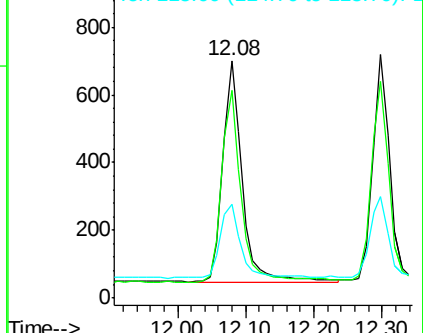
115 39.4 29.5 44.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#8

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.28 min Scan# 1692

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

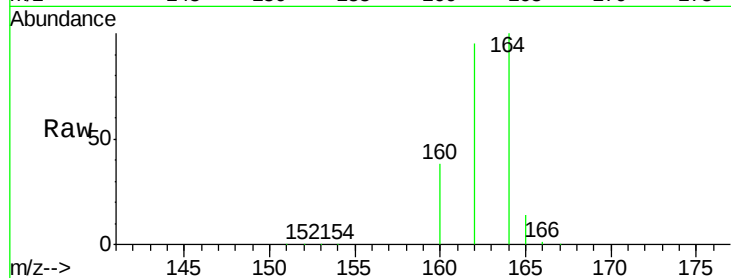
Tgt Ion:164 Resp: 67376

Ion Ratio Lower Upper

164 100

162 94.7 75.4 113.2

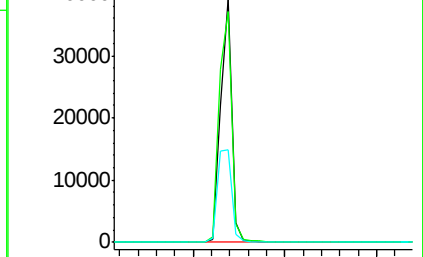
160 38.2 30.8 46.2



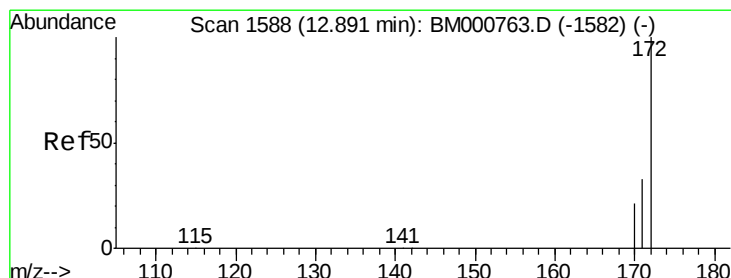
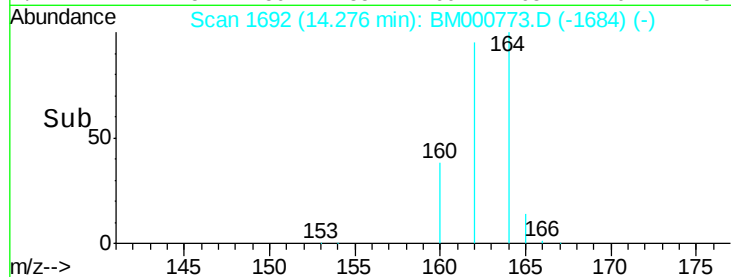
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



Time-->



#9

2-Fluorobiphenyl

Concen: 8.47 ng

RT: 12.89 min Scan# 1588

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

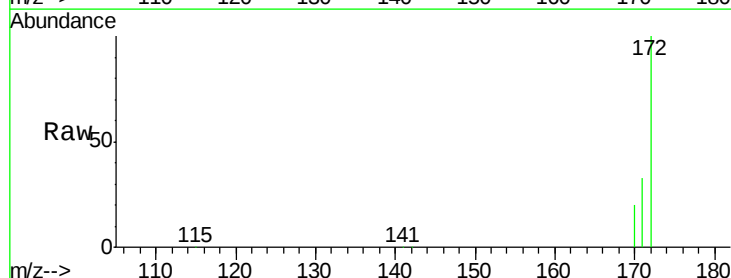
Tgt Ion:172 Resp: 177020

Ion Ratio Lower Upper

172 100

171 32.6 26.6 39.8

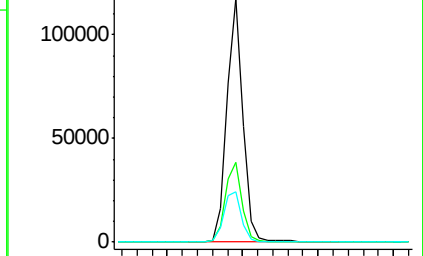
170 20.5 17.1 25.7



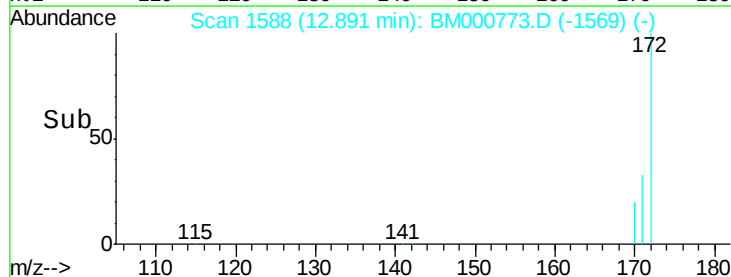
Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



Time-->





#10

Acenaphthylene

Concen: 0.05 ng

RT: 13.98 min Scan# 1675

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

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ClientSampleId :

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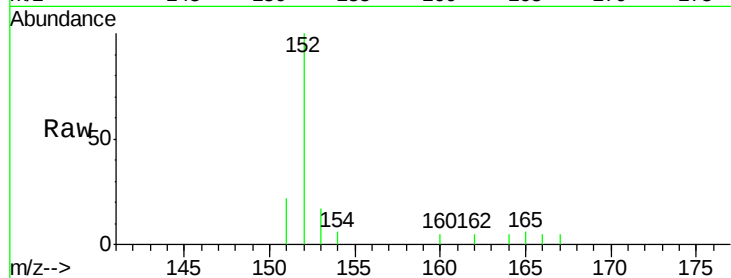
Tgt Ion:152 Resp: 1619

Ion Ratio Lower Upper

152 100

151 18.8 15.1 22.7

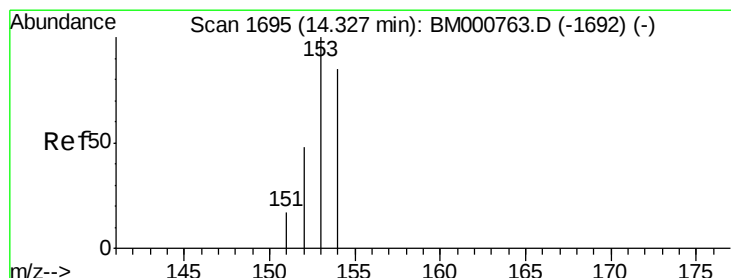
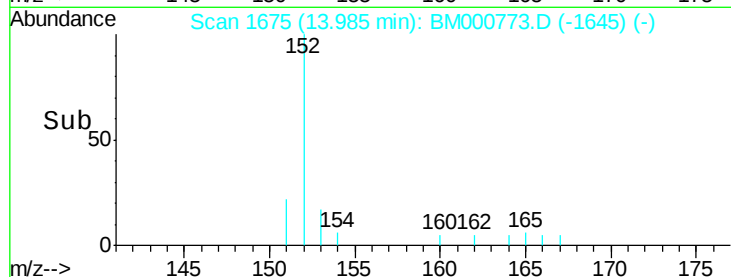
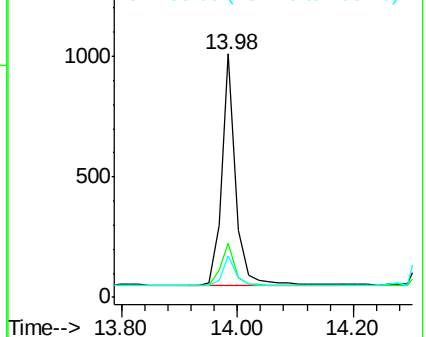
153 12.8 10.2 15.4



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: 0.06 ng

RT: 14.33 min Scan# 1695

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

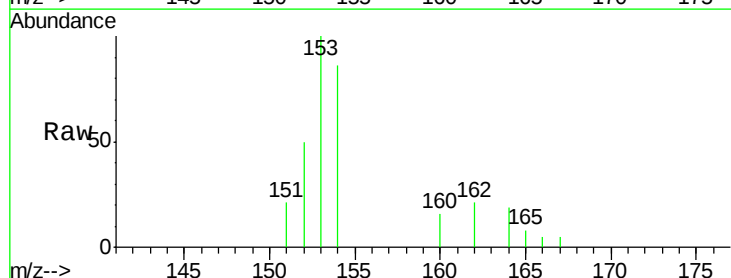
Tgt Ion:154 Resp: 1261

Ion Ratio Lower Upper

154 100

153 114.9 87.3 130.9

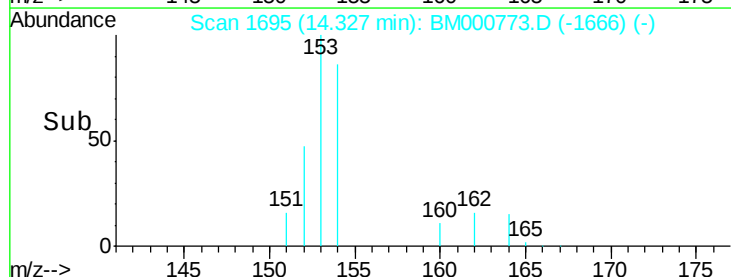
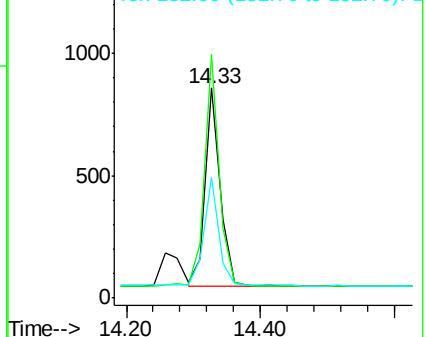
152 54.9 43.0 64.6



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: 0.06 ng

RT: 15.32 min Scan# 1753

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

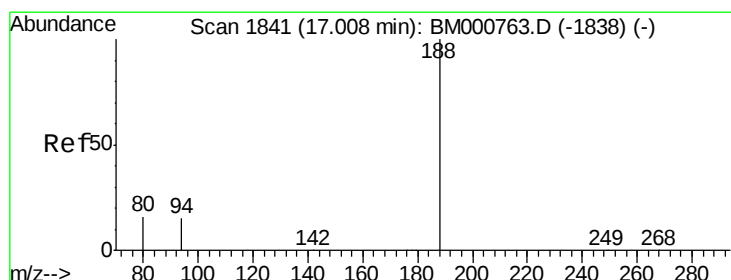
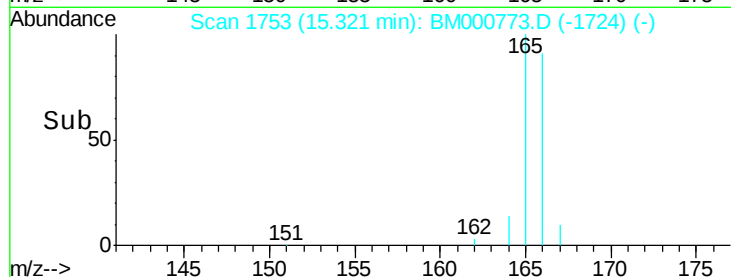
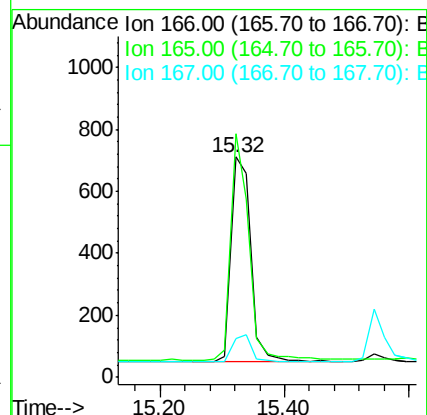
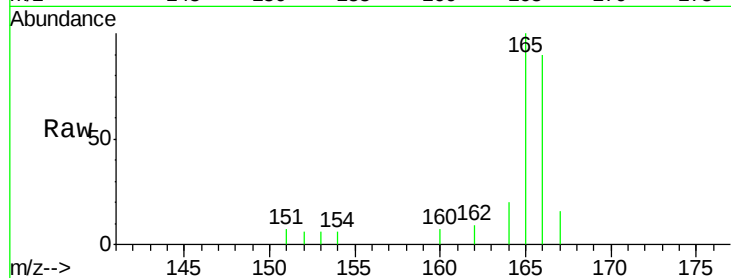
Tgt Ion:166 Resp: 1479

Ion Ratio Lower Upper

166 100

165 99.9 78.2 117.2

167 13.0 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: BM000773.D

Acq: 01 Apr 2015 03:11

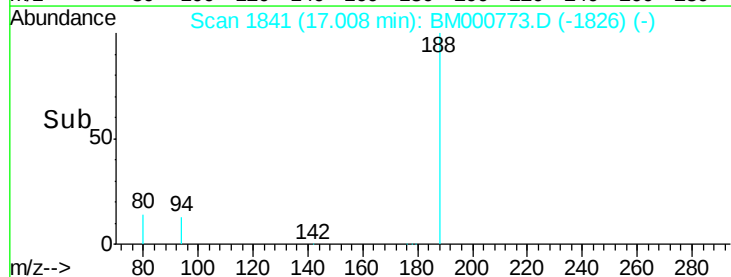
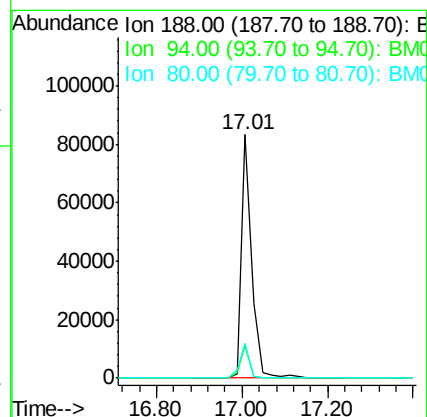
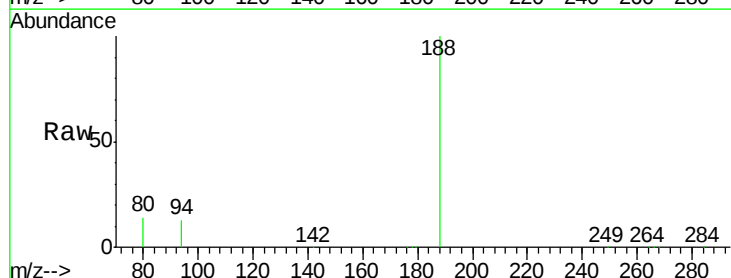
Tgt Ion:188 Resp: 141941

Ion Ratio Lower Upper

188 100

94 13.3 12.0 18.0

80 14.1 12.8 19.2

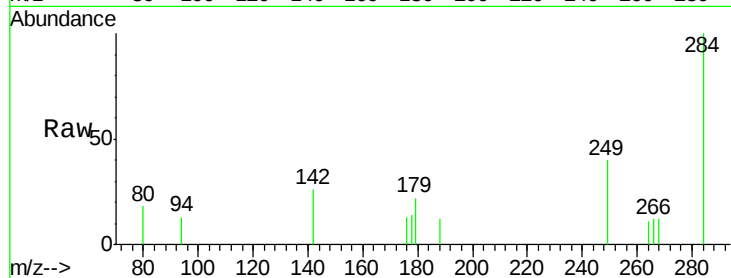




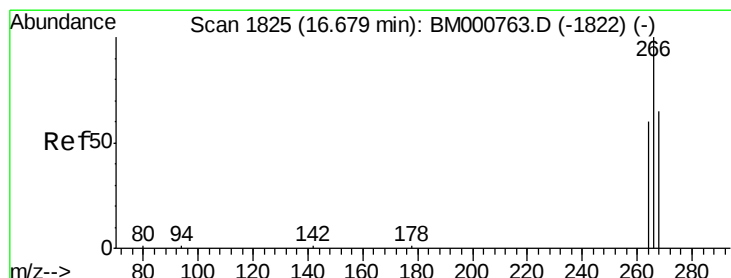
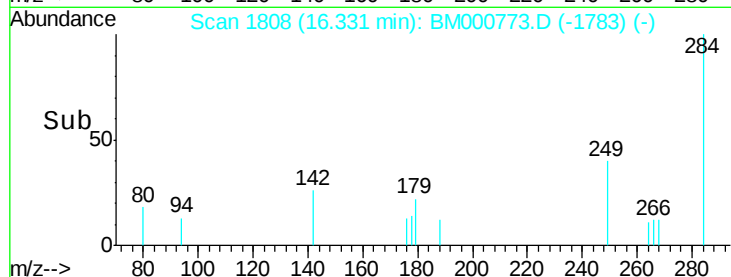
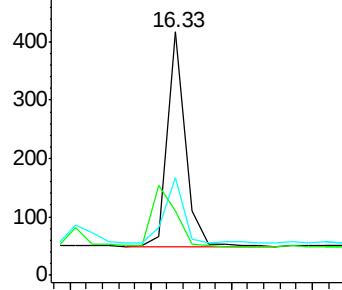
#14
Hexachlorobenzene
Concen: 0.07 ng
RT: 16.33 min Scan# 1808
Delta R.T. 0.00 min
Lab File: BM000773.D
Acq: 01 Apr 2015 03:11

Instrument :
BNA_M
ClientSampled :
MDL-04-S

Tgt Ion: 284 Resp: 563
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 33.0 25.2 37.8

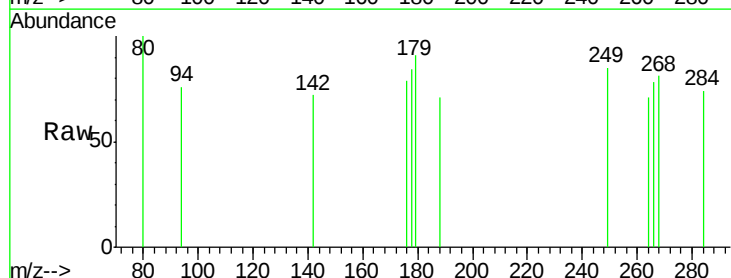


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

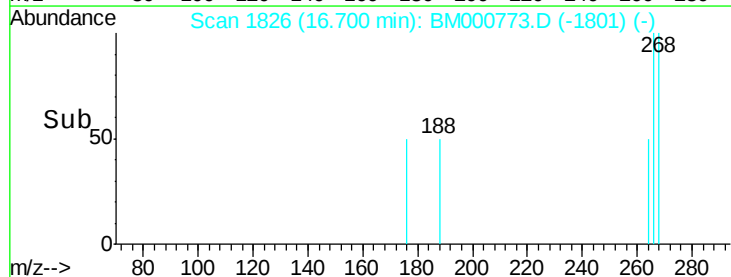
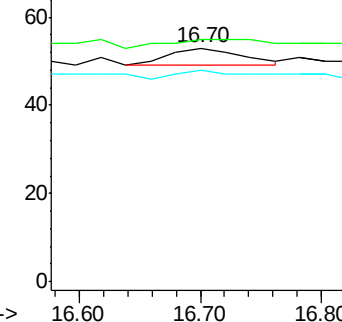


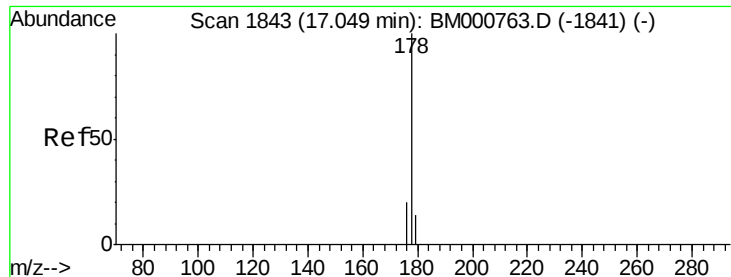
#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000773.D
Acq: 01 Apr 2015 03:11

Tgt Ion: 266 Resp: 17
Ion Ratio Lower Upper
266 100
268 103.8 55.0 82.6#
264 90.6 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: 0.05 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.10 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

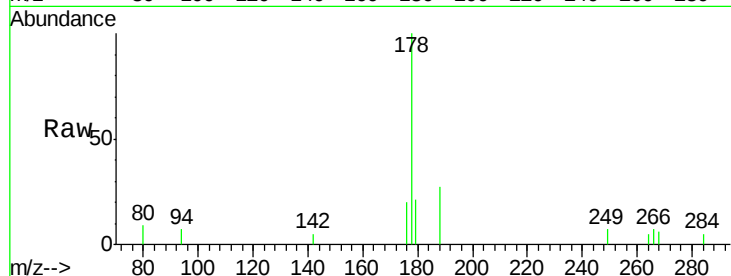
Tgt Ion:178 Resp: 2059

Ion Ratio Lower Upper

178 100

176 17.6 15.3 22.9

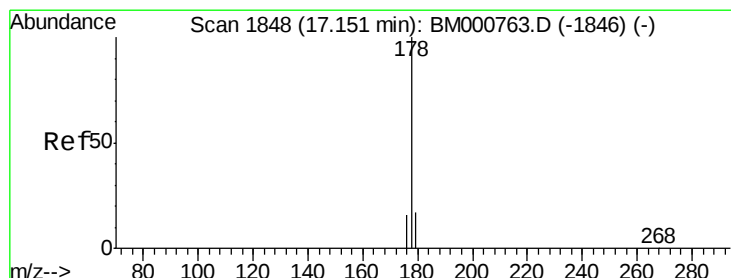
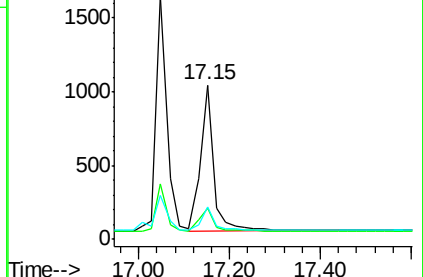
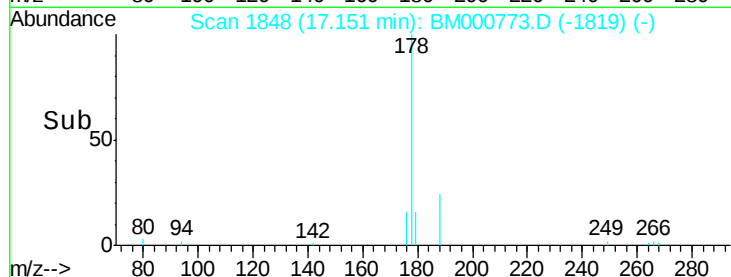
179 14.5 12.2 18.2



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: 0.06 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

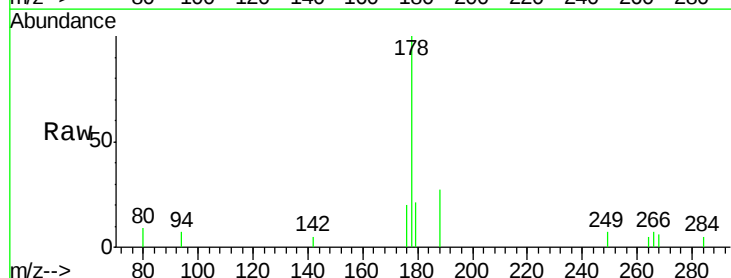
Tgt Ion:178 Resp: 2105

Ion Ratio Lower Upper

178 100

176 17.2 14.6 22.0

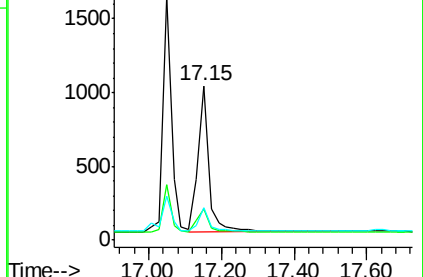
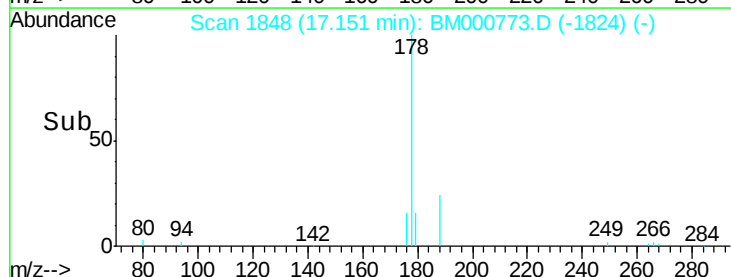
179 14.2 12.2 18.4

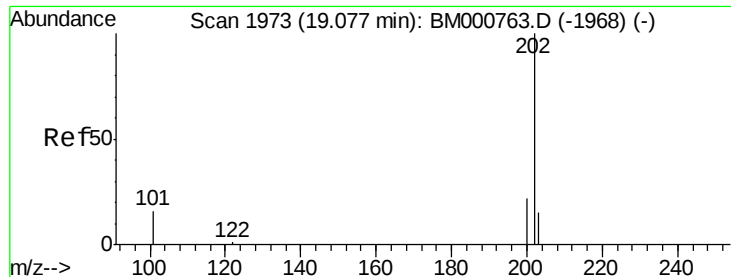


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

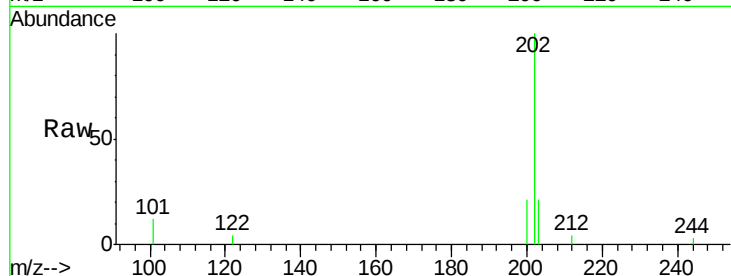




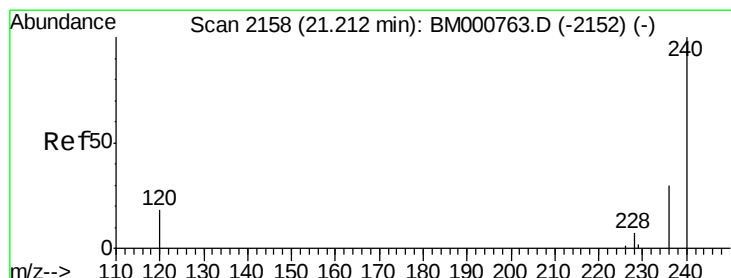
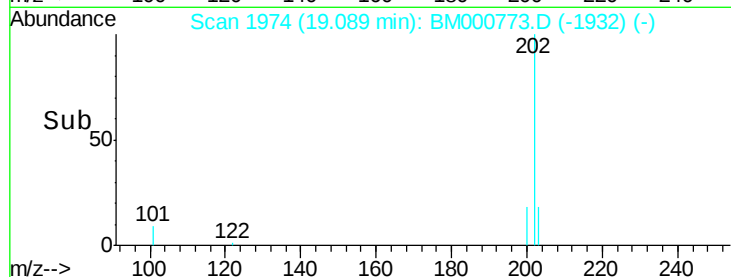
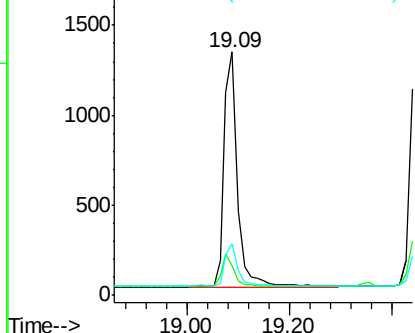
#18
 Fluoranthene
 Concen: 0.06 ng
 RT: 19.09 min Scan# 1974
 Delta R.T. 0.01 min
 Lab File: BM000773.D
 Acq: 01 Apr 2015 03:11

Instrument :
 BNA_M
 ClientSampleId :
 MDL-04-S

Tgt Ion: 202 Resp: 2412
 Ion Ratio Lower Upper
 202 100
 101 13.0 10.5 15.7
 203 17.7 13.8 20.8

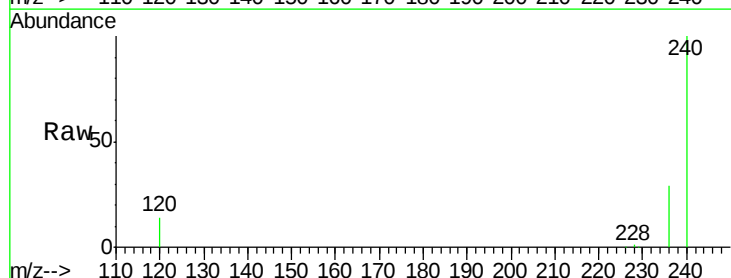


Abundance Ion 202.00 (201.70 to 202.70): E
 Ion 101.00 (100.70 to 101.70): E
 Ion 203.00 (202.70 to 203.70): E

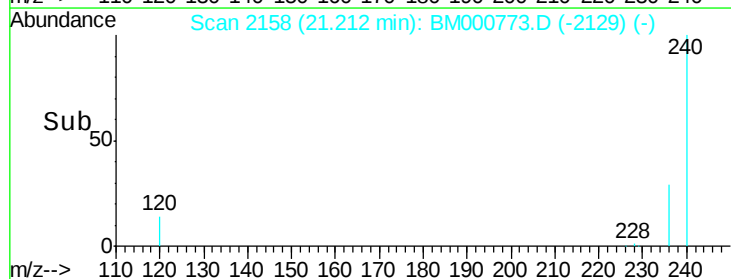
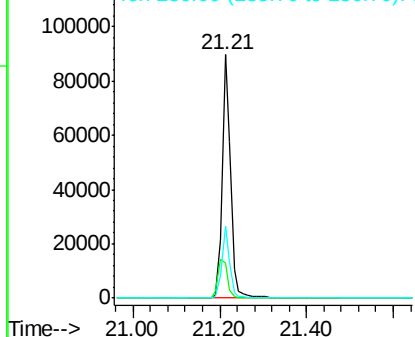


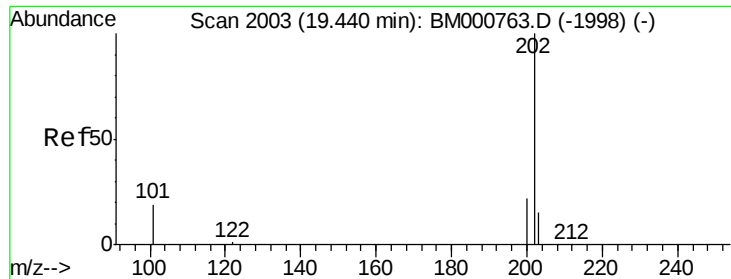
#19
 Chrysene-d12
 Concen: 5.00 ng
 RT: 21.21 min Scan# 2158
 Delta R.T. 0.00 min
 Lab File: BM000773.D
 Acq: 01 Apr 2015 03:11

Tgt Ion: 240 Resp: 118826
 Ion Ratio Lower Upper
 240 100
 120 14.4 14.9 22.3#
 236 29.4 24.2 36.4



Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

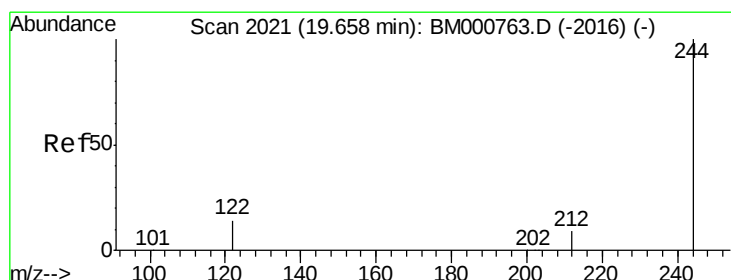
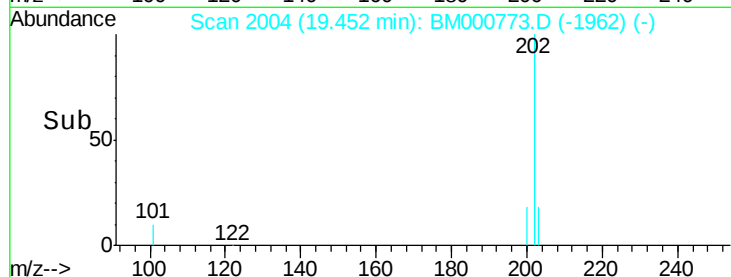
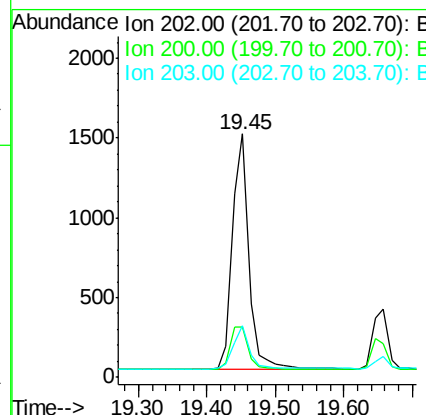
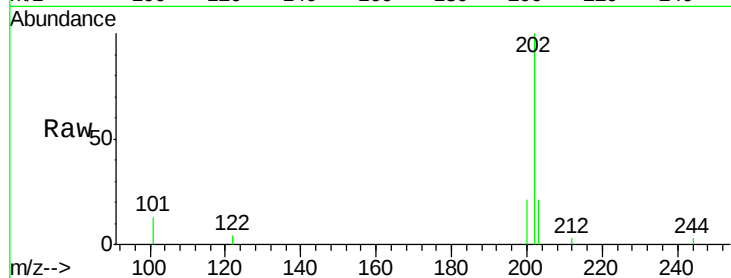




#20
Pyrene
Concen: 0.06 ng
RT: 19.45 min Scan# 2004
Delta R.T. 0.01 min
Lab File: BM000773.D
Acq: 01 Apr 2015 03:11

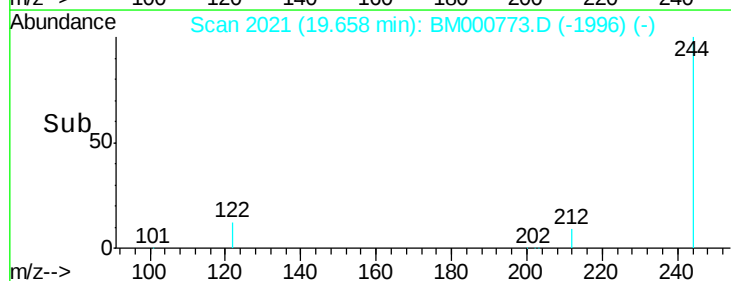
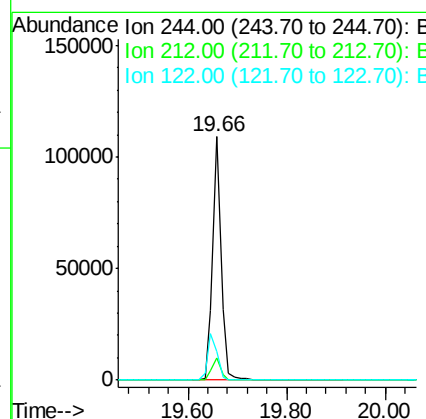
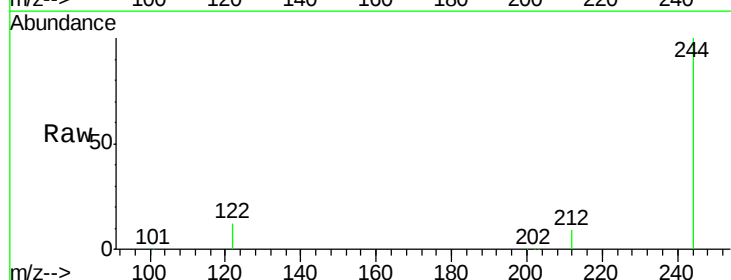
Instrument :
BNA_M
ClientSampleId :
MDL-04-S

Tgt Ion: 202 Resp: 2464
Ion Ratio Lower Upper
202 100
200 20.9 16.2 24.2
203 18.4 13.9 20.9



#21
Terphenyl-d14
Concen: 9.20 ng
RT: 19.66 min Scan# 2021
Delta R.T. 0.00 min
Lab File: BM000773.D
Acq: 01 Apr 2015 03:11

Tgt Ion: 244 Resp: 131577
Ion Ratio Lower Upper
244 100
212 9.1 7.8 11.6
122 11.7 11.8 17.8#





#22

Benzo(a)anthracene

Concen: 0.07 ng

RT: 21.19 min Scan# 2156

Delta R.T. -0.01 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

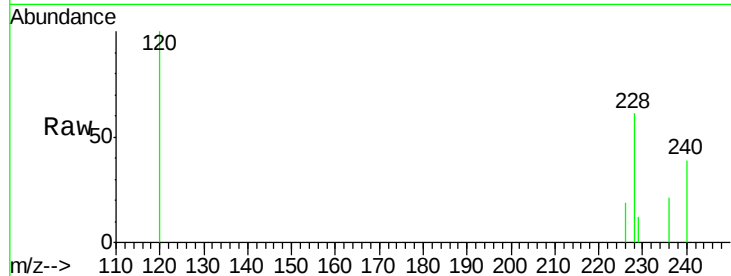
Tgt Ion:228 Resp: 2423

Ion Ratio Lower Upper

228 100

226 31.2 18.6 27.8#

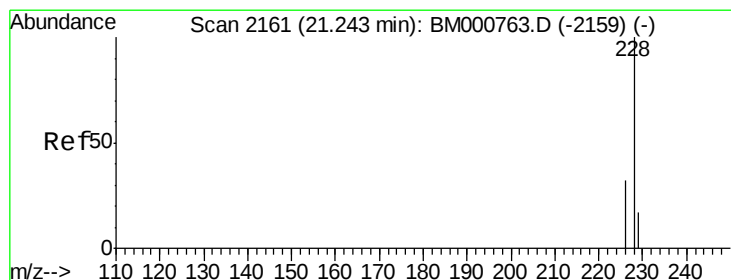
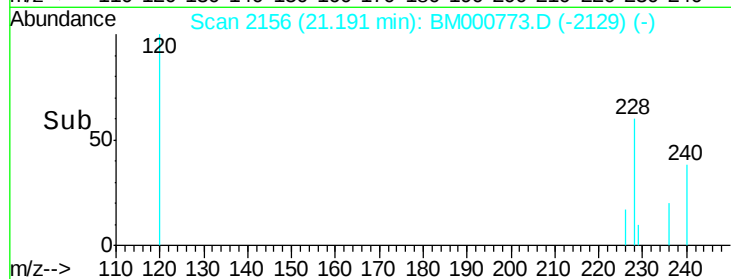
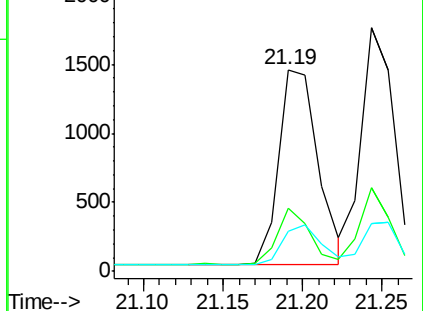
229 19.9 17.2 25.8



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: 0.07 ng

RT: 21.24 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

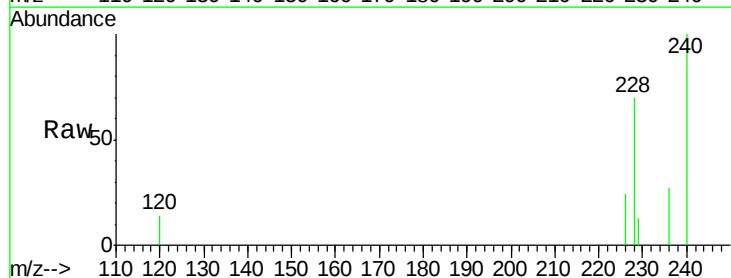
Tgt Ion:228 Resp: 2547

Ion Ratio Lower Upper

228 100

226 34.3 25.8 38.8

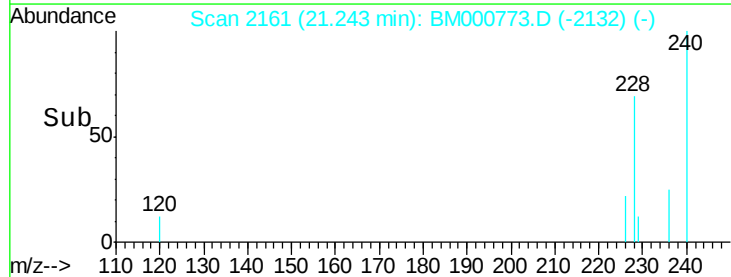
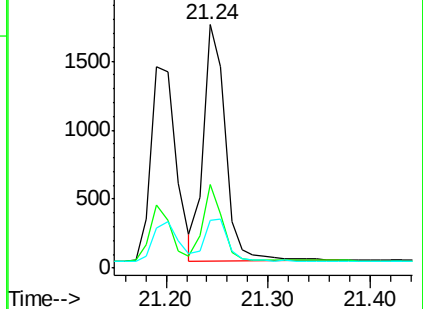
229 19.4 13.8 20.6

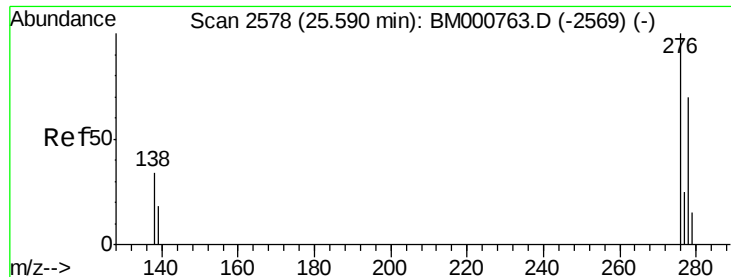


Abundance Ion 228.00 (227.70 to 228.70): E

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: 0.06 ng

RT: 25.59 min Scan# 2578

Delta R.T. 0.00 min

Lab File: BM000773.D

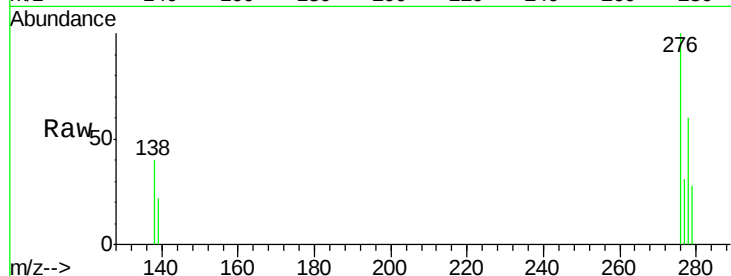
Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S



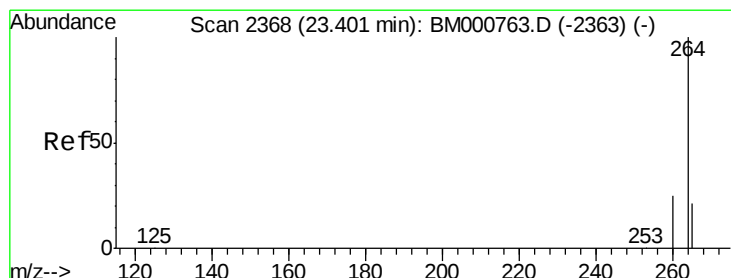
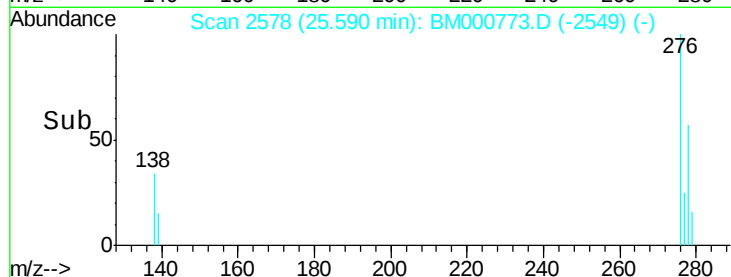
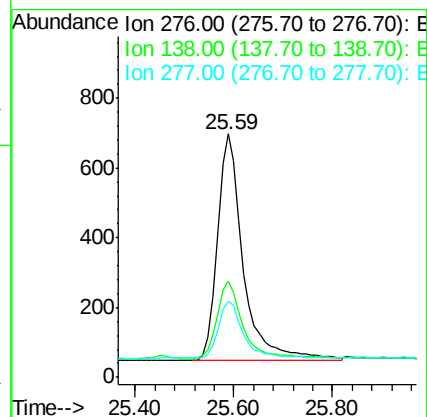
Tgt Ion:276 Resp: 2364

Ion Ratio Lower Upper

276 100

138 35.1 27.4 41.2

277 24.6 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: BM000773.D

Acq: 01 Apr 2015 03:11

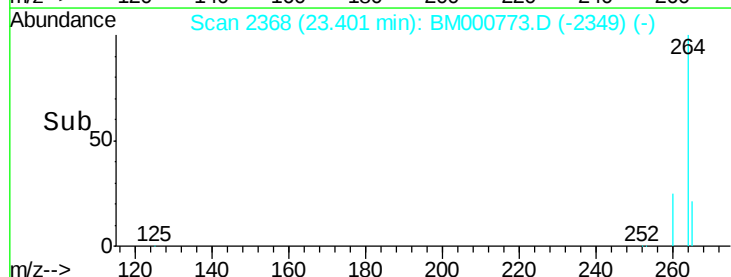
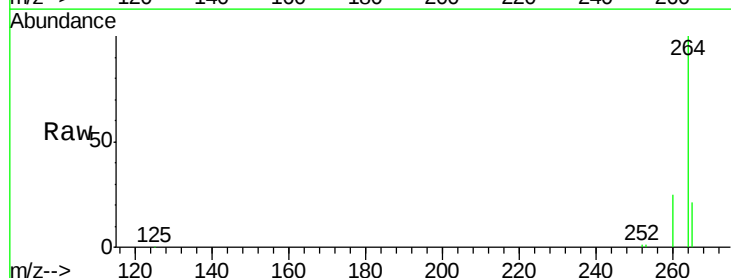
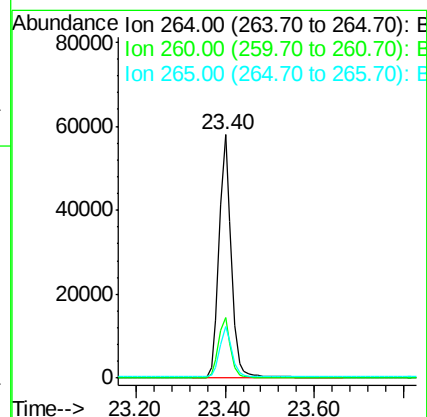
Tgt Ion:264 Resp: 110360

Ion Ratio Lower Upper

264 100

260 24.8 20.1 30.1

265 21.4 17.4 26.0

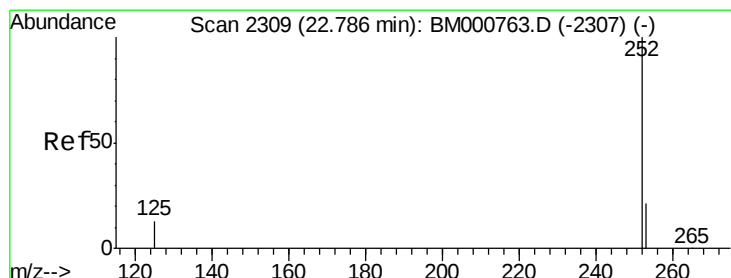
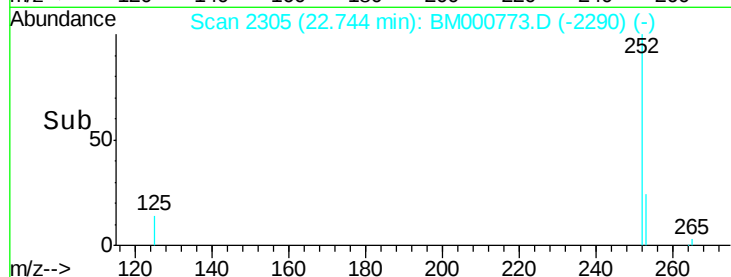
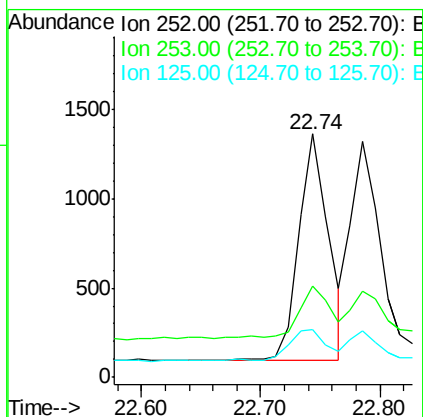
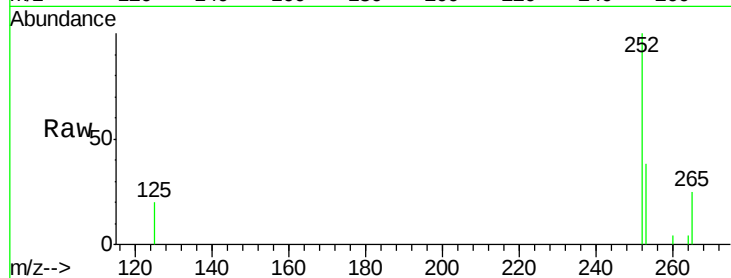




#26
Benzo(b)fluoranthene
Concen: 0.06 ng
RT: 22.74 min Scan# 2305
Delta R.T. 0.00 min
Lab File: BM000773.D
Acq: 01 Apr 2015 03:11

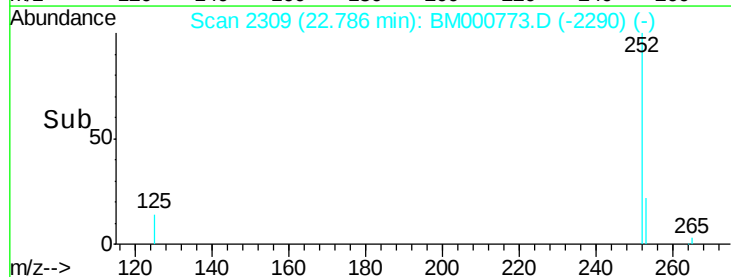
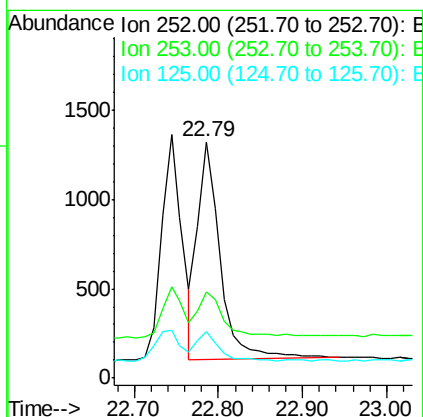
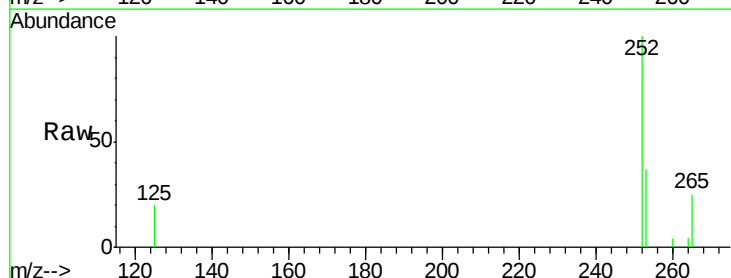
Instrument :
BNA_M
ClientSampleId :
MDL-04-S

Tgt Ion:252 Resp: 2201
Ion Ratio Lower Upper
252 100
253 37.8 18.5 27.7#
125 19.9 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: BM000773.D
Acq: 01 Apr 2015 03:11

Tgt Ion:252 Resp: 2246
Ion Ratio Lower Upper
252 100
253 36.7 17.9 26.9#
125 19.9 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: BM000773.D

Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S

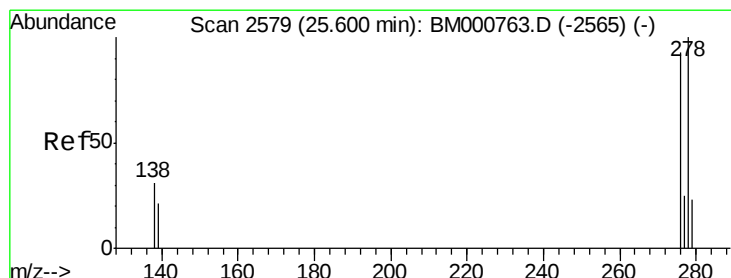
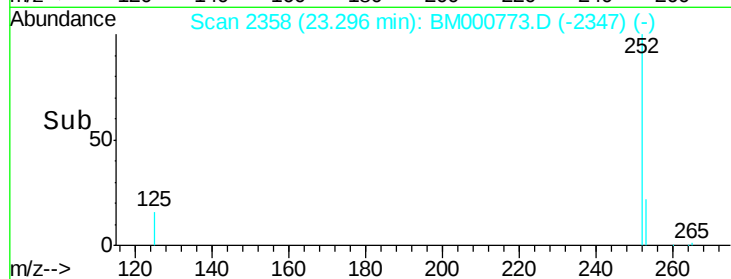
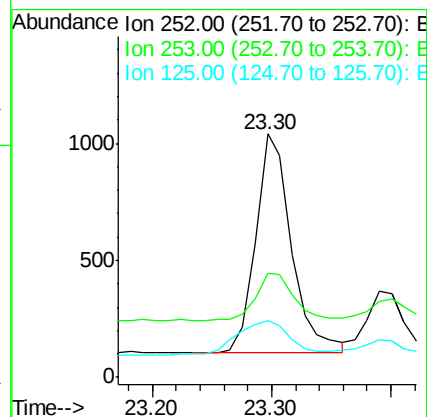
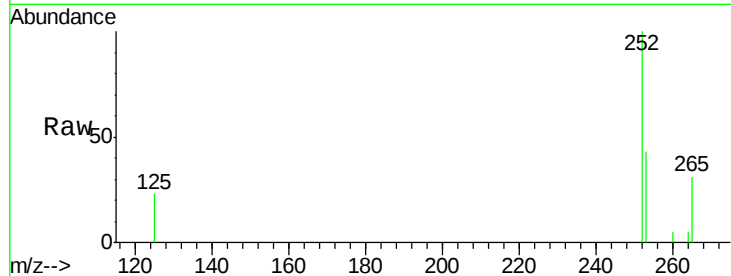
Tgt Ion:252 Resp: 1961

Ion Ratio Lower Upper

252 100

253 42.8 19.4 29.2#

125 23.4 11.5 17.3#



#29

Dibenzo(a,h)anthracene

Concen: 0.06 ng

RT: 25.61 min Scan# 2580

Delta R.T. 0.01 min

Lab File: BM000773.D

Acq: 01 Apr 2015 03:11

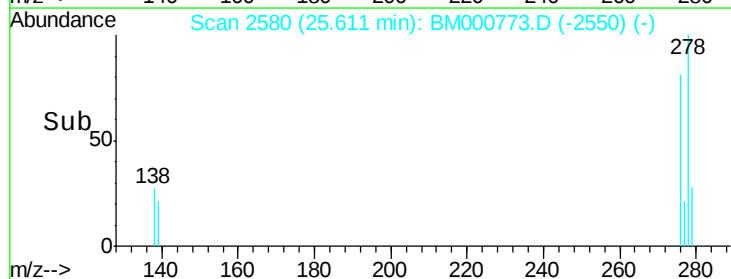
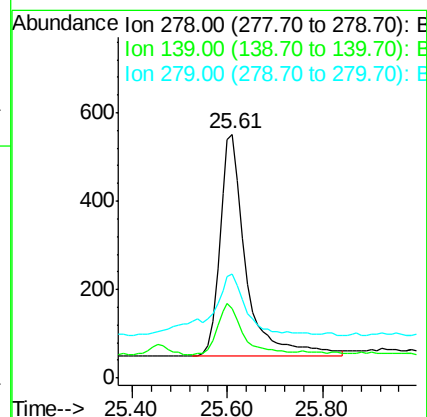
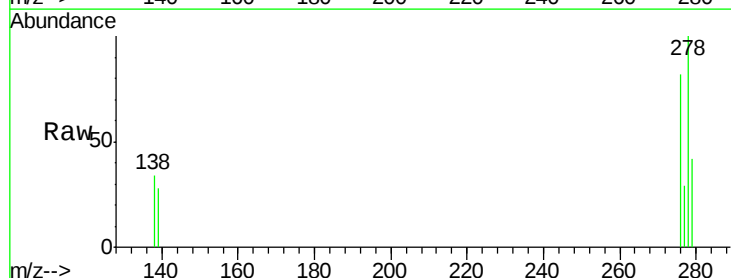
Tgt Ion:278 Resp: 1910

Ion Ratio Lower Upper

278 100

139 28.5 17.8 26.6#

279 42.5 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: BM000773.D

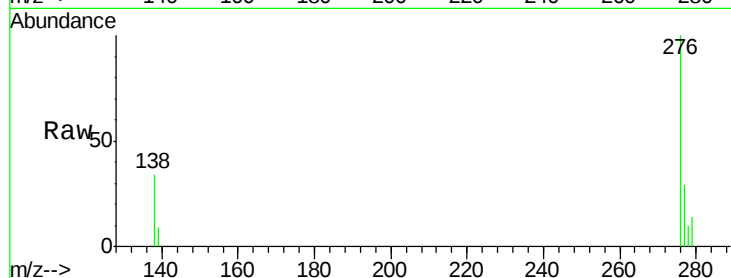
Acq: 01 Apr 2015 03:11

Instrument :

BNA_M

ClientSampleId :

MDL-04-S



Tgt Ion: 276 Resp: 2191

Ion Ratio Lower Upper

276 100

277 28.7 19.1 28.7#

138 33.8 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

