

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM033115\
 Data File : BM000774.D
 Acq On : 01 Apr 2015 03:47
 Operator : TP/IZ
 Sample : MDL-05-S
 Misc : MDL-SOIL-0.1/0.2PPM
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MDL-05-S

Quant Time: Apr 01 15:09:29 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	40024	5.00	ng	0.00
4) Naphthalene-d8	10.40	136	135515	5.00	ng	0.00
8) Acenaphthene-d10	14.28	164	65240	5.00	ng	0.00
13) Phenanthrene-d10	17.01	188	137909	5.00	ng	0.00
19) Chrysene-d12	21.21	240	116630	5.00	ng	0.00
25) Perylene-d12	23.40	264	107837	5.00	ng	0.00

System Monitoring Compounds						
5) Nitrobenzene-d5	8.77	82	66205	7.96	ng	0.00
9) 2-Fluorobiphenyl	12.89	172	198021	9.78	ng	0.00
21) Terphenyl-d14	19.66	244	146750	10.46	ng	0.00

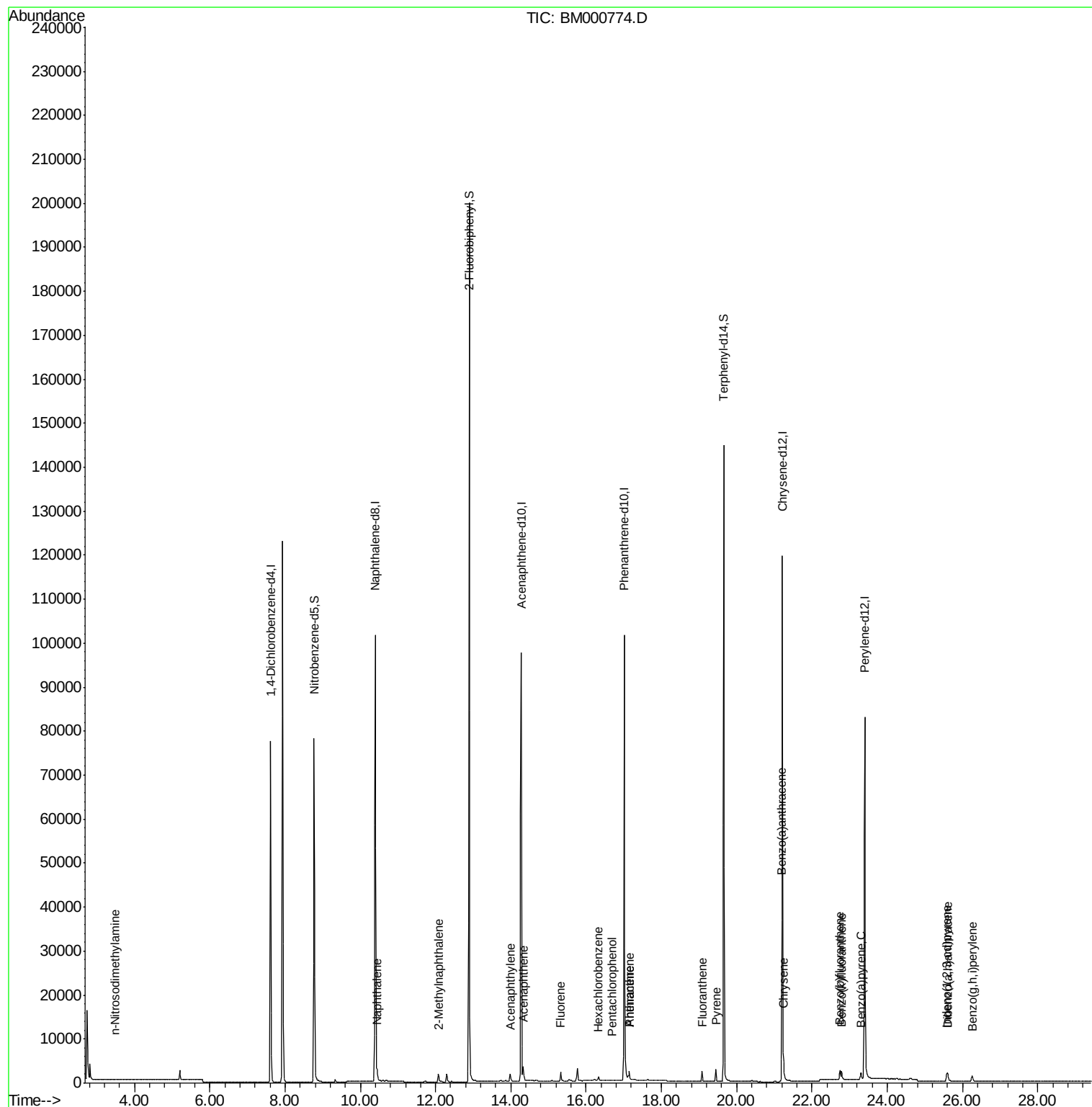
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.48	42	121	0.18	ng	# 47
6) Naphthalene	10.45	128	2629	0.08	ng	# 93
7) 2-Methylnaphthalene	12.08	142	1551	0.08	ng	98
10) Acenaphthylene	13.98	152	1941	0.07	ng	100
11) Acenaphthene	14.33	154	1818	0.09	ng	87
12) Fluorene	15.32	166	1777	0.08	ng	98
14) Hexachlorobenzene	16.33	284	673	0.08	ng	# 87
15) Pentachlorophenol	16.70	266	15	0.37	ng	# 62
16) Phenanthrene	17.15	178	2569	0.07	ng	98
17) Anthracene	17.15	178	2569	0.08	ng	100
18) Fluoranthene	19.09	202	3006	0.08	ng	99
20) Pyrene	19.45	202	3106	0.08	ng	99
22) Benzo(a)anthracene	21.20	228	2936	0.09	ng	97
23) Chrysene	21.24	228	3213	0.09	ng	98
24) Indeno(1,2,3-cd)pyrene	25.59	276	2926	0.08	ng	100
26) Benzo(b)fluoranthene	22.74	252	2669	0.08	ng	# 81
27) Benzo(k)fluoranthene	22.79	252	2791	0.09	ng	# 79
28) Benzo(a)pyrene	23.31	252	2377	0.08	ng	# 73
29) Dibenzo(a,h)anthracene	25.60	278	2356	0.08	ng	# 81
30) Benzo(g,h,i)perylene	26.26	276	2705	0.09	ng	# 91

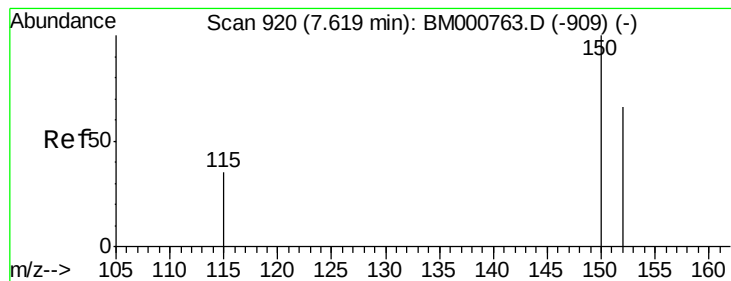
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 01 04:17:30 2015
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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: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

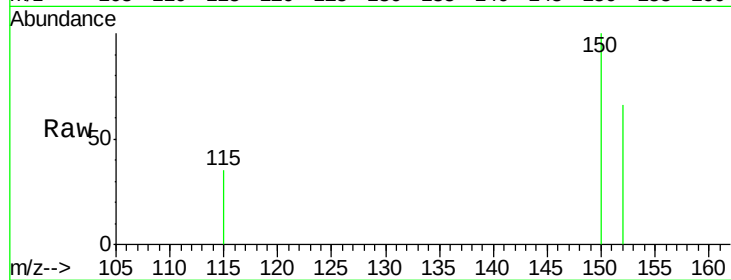
Tgt Ion:152 Resp: 40024

Ion Ratio Lower Upper

152 100

150 150.5 120.8 181.2

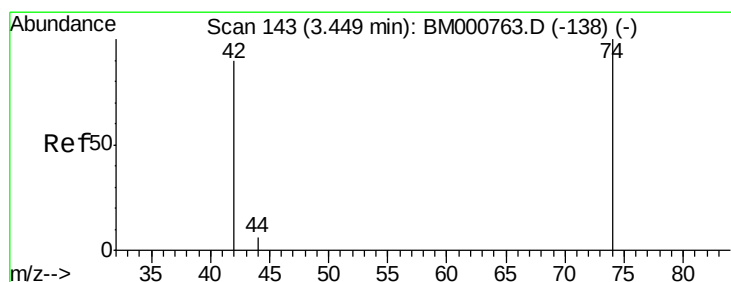
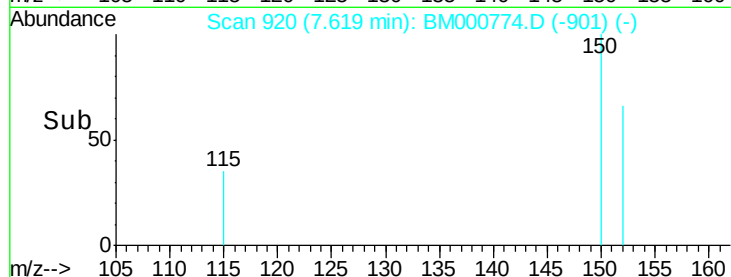
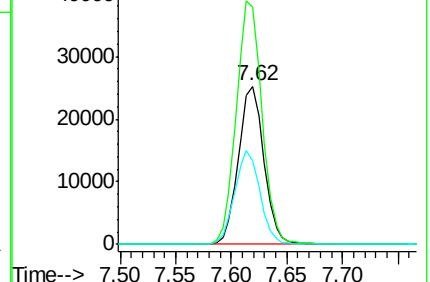
115 52.6 42.7 64.1



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: 0.18 ng

RT: 3.48 min Scan# 149

Delta R.T. 0.03 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

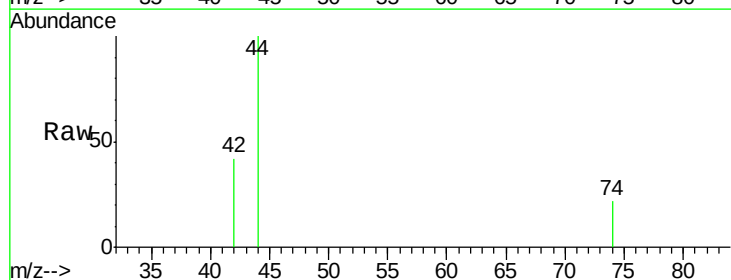
Tgt Ion: 42 Resp: 121

Ion Ratio Lower Upper

42 100

74 176.9 93.6 140.4#

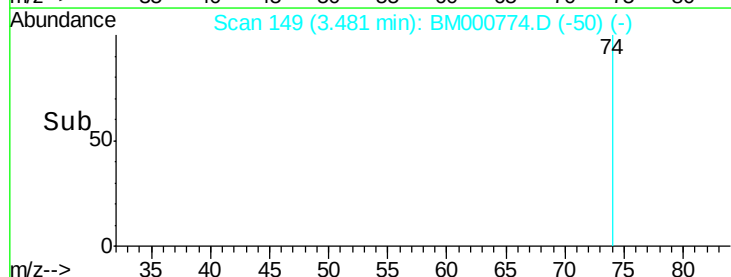
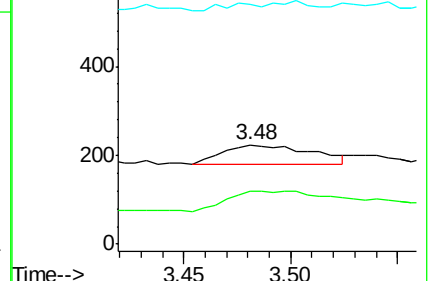
44 16.5 6.3 9.5#

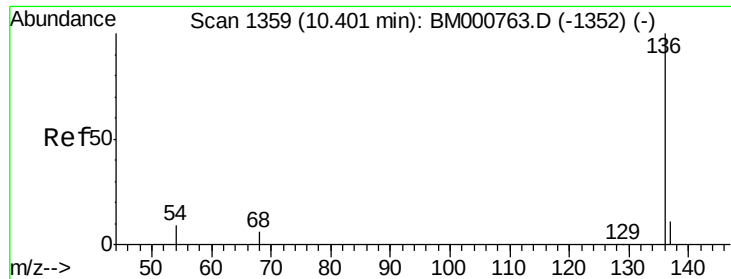


Abundance Ion 42.00 (41.70 to 42.70): BM0

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: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

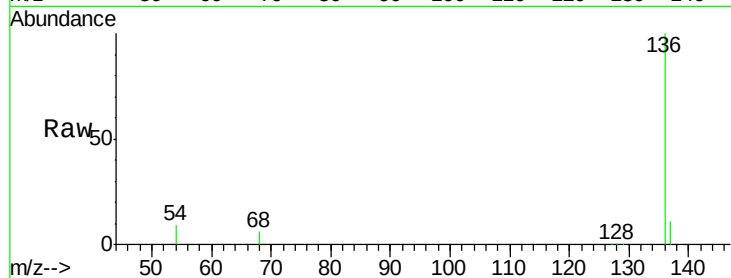
Tgt Ion: 136 Resp: 135515

Ion Ratio Lower Upper

136 100

137 10.7 8.6 12.8

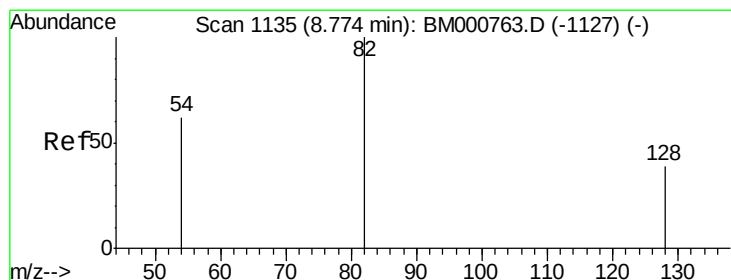
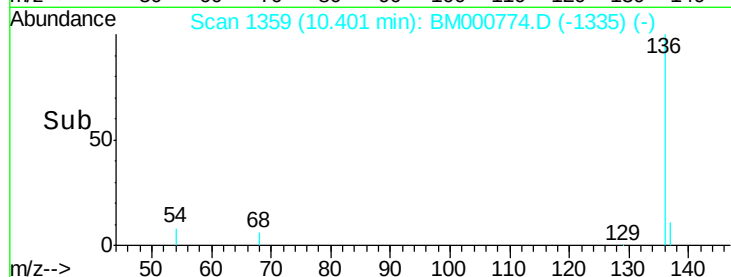
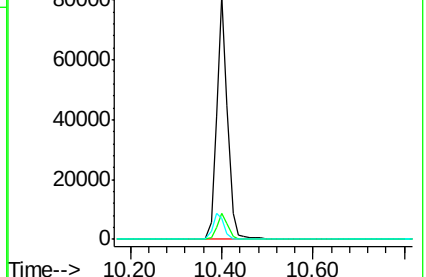
54 8.5 7.0 10.6



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: 7.96 ng

RT: 8.77 min Scan# 1135

Delta R.T. 0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

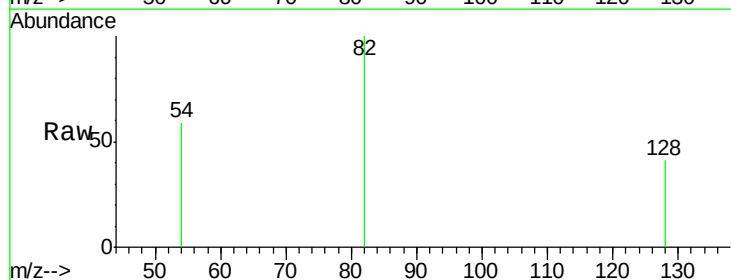
Tgt Ion: 82 Resp: 66205

Ion Ratio Lower Upper

82 100

128 40.9 32.2 48.2

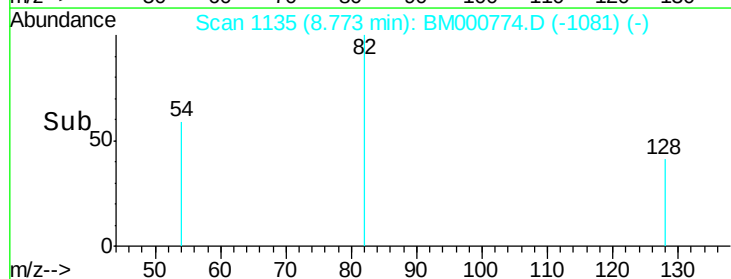
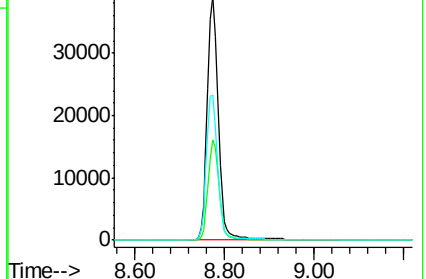
54 59.4 50.2 75.4

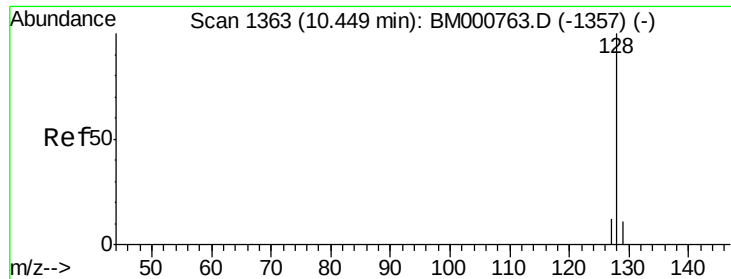


Abundance Ion 82.00 (81.70 to 82.70): BM

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: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

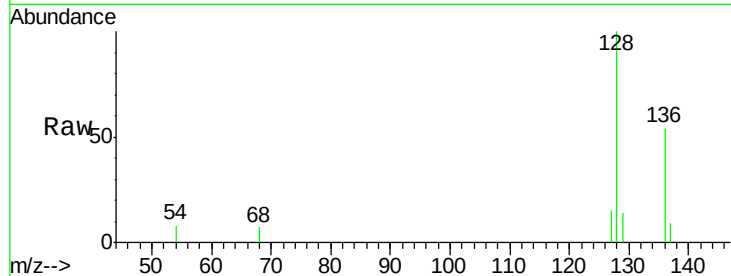
Tgt Ion:128 Resp: 2629

Ion Ratio Lower Upper

128 100

129 14.0 8.9 13.3#

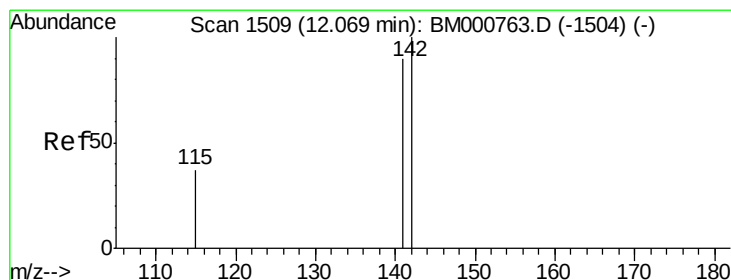
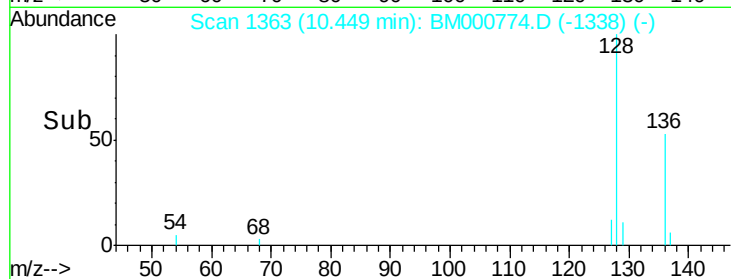
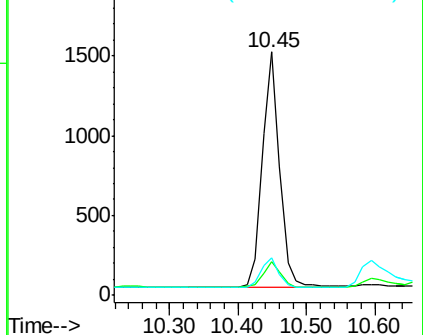
127 15.1 10.0 15.0#



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: 0.08 ng

RT: 12.08 min Scan# 1510

Delta R.T. 0.01 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

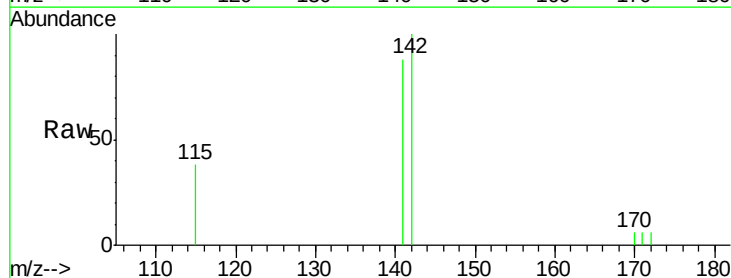
Tgt Ion:142 Resp: 1551

Ion Ratio Lower Upper

142 100

141 87.9 72.3 108.5

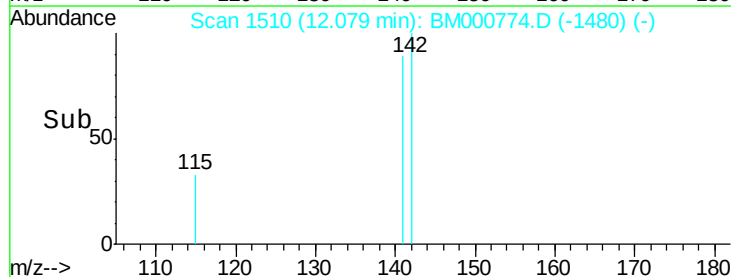
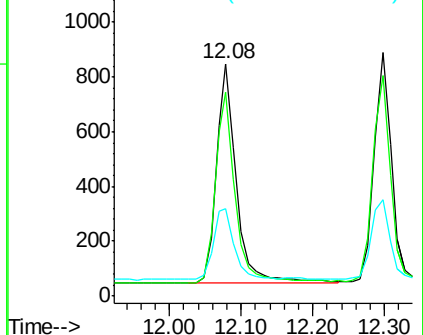
115 37.9 29.5 44.3

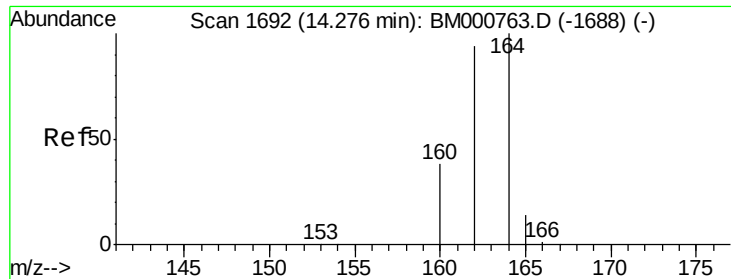


Abundance Ion 142.00 (141.70 to 142.70): E

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: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

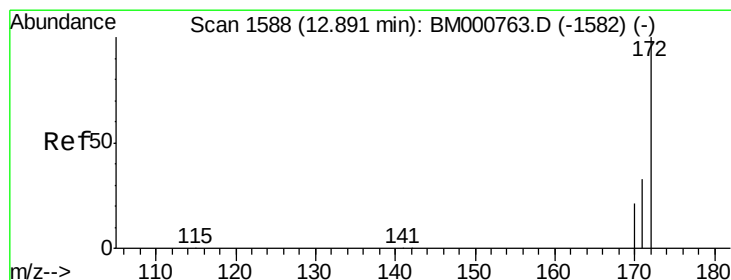
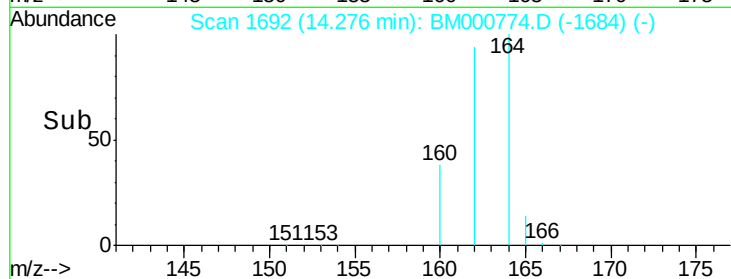
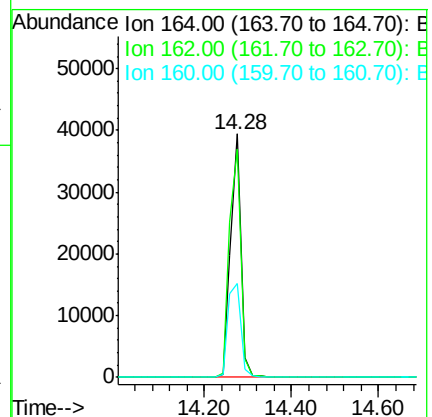
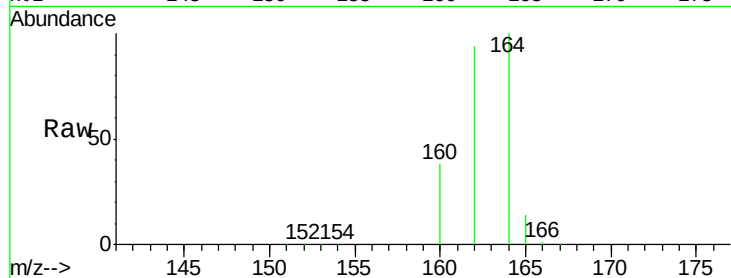
Tgt Ion:164 Resp: 65240

Ion Ratio Lower Upper

164 100

162 94.0 75.4 113.2

160 38.3 30.8 46.2



#9

2-Fluorobiphenyl

Concen: 9.78 ng

RT: 12.89 min Scan# 1588

Delta R.T. -0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

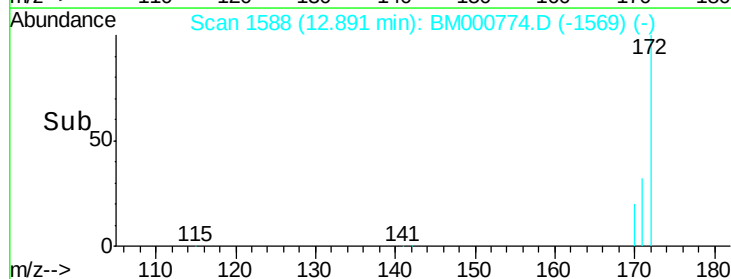
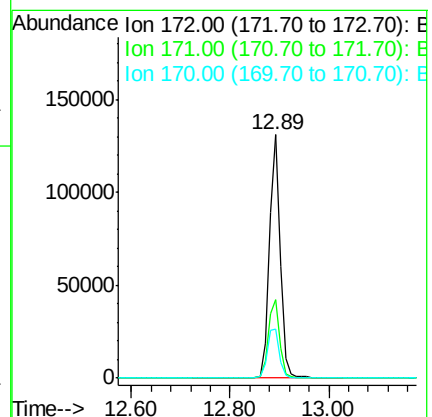
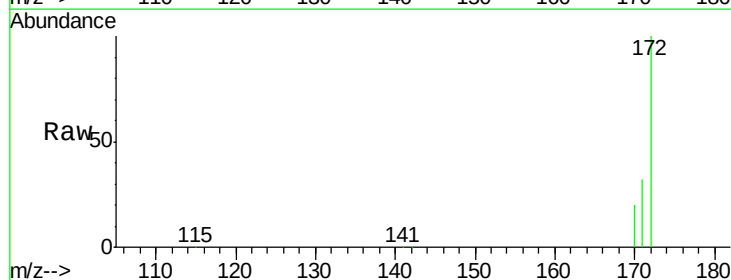
Tgt Ion:172 Resp: 198021

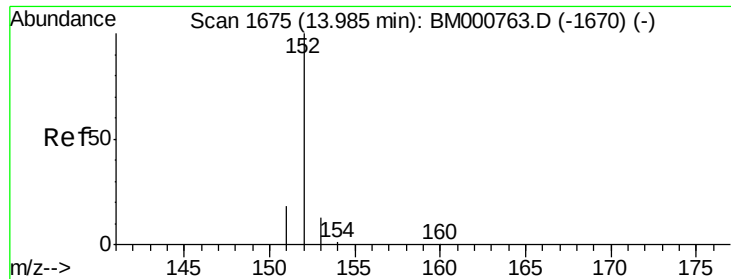
Ion Ratio Lower Upper

172 100

171 32.1 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: BM000774.D

Acq: 01 Apr 2015 03:47

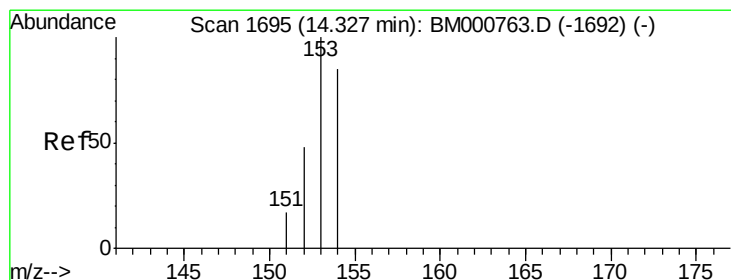
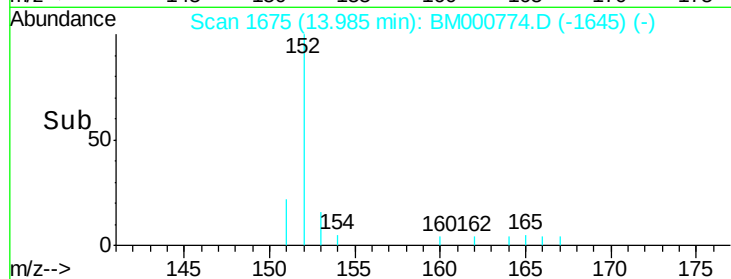
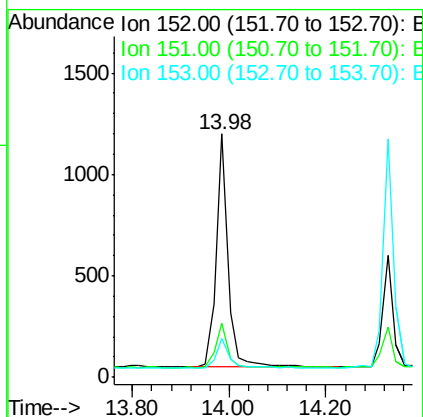
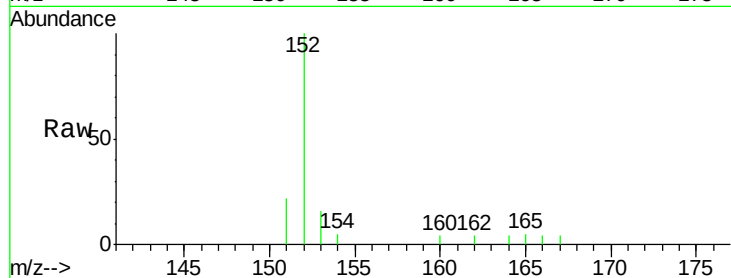
Instrument :

BNA_M

ClientSampleId :

MDL-05-S

Tgt Ion:	152	Resp:	1941
Ion	Ratio	Lower	Upper
152	100		
151	19.0	15.1	22.7
153	13.1	10.2	15.4



#11

Acenaphthene

Concen: 0.09 ng

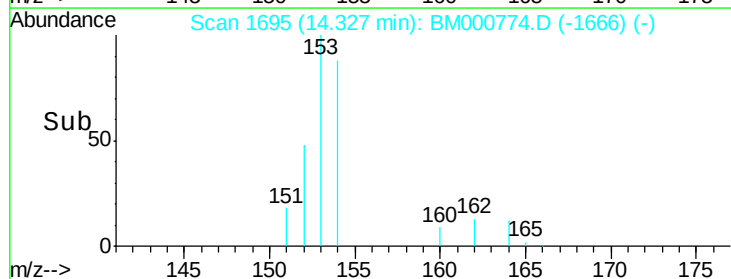
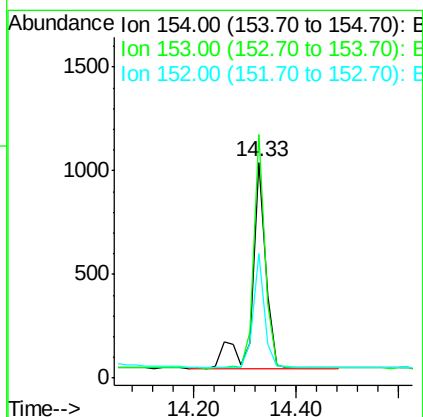
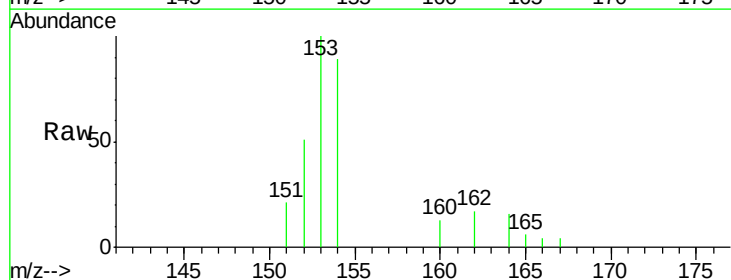
RT: 14.33 min Scan# 1695

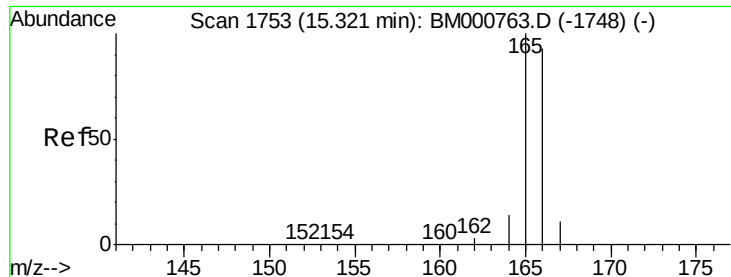
Delta R.T. -0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

Tgt Ion:	154	Resp:	1818
Ion	Ratio	Lower	Upper
154	100		
153	94.3	87.3	130.9
152	45.4	43.0	64.6





#12

Fluorene

Concen: 0.08 ng

RT: 15.32 min Scan# 1753

Delta R.T. -0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

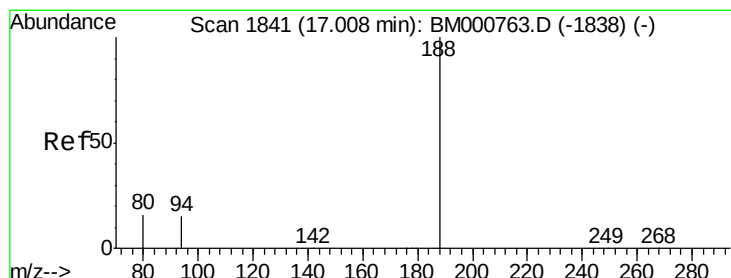
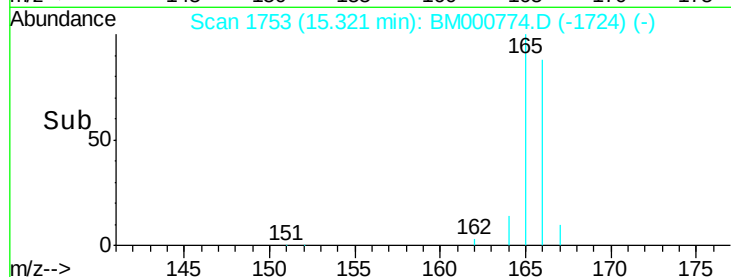
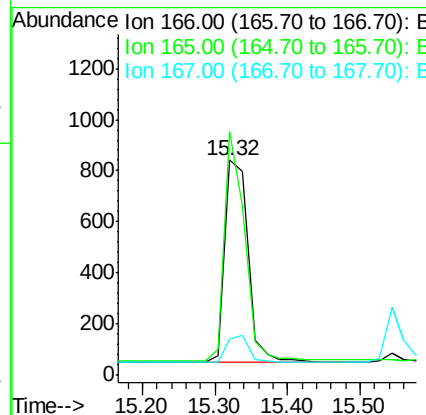
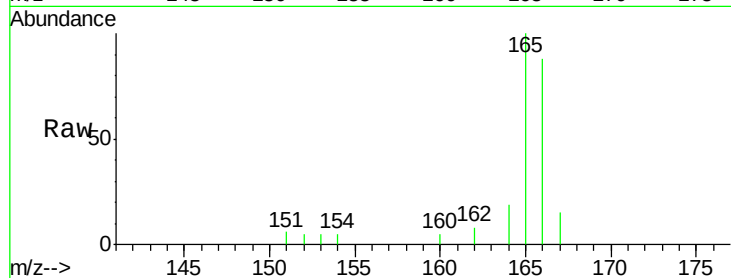
BNA_M

ClientSampleId :

MDL-05-S

Tgt Ion:166 Resp: 1777

Ion	Ratio	Lower	Upper
166	100		
165	100.5	78.2	117.2
167	13.3	10.7	16.1



#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.01 min Scan# 1841

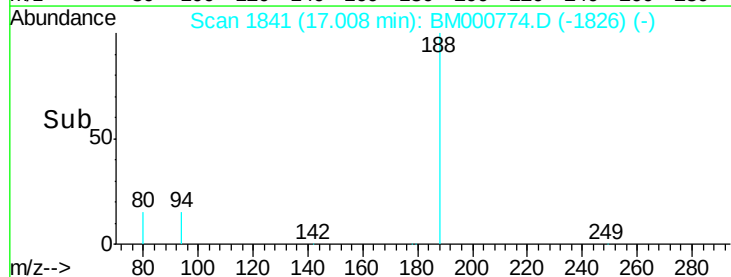
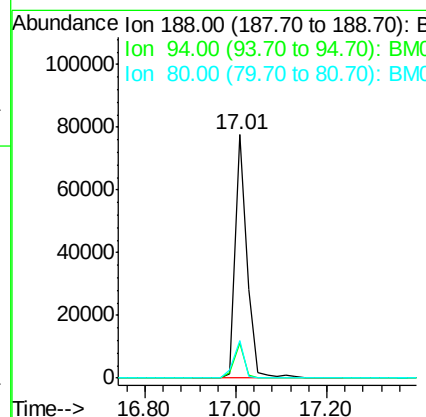
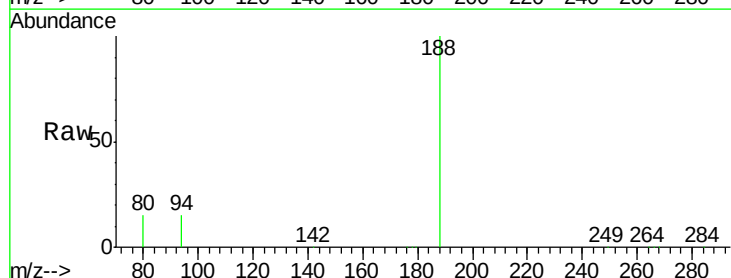
Delta R.T. -0.00 min

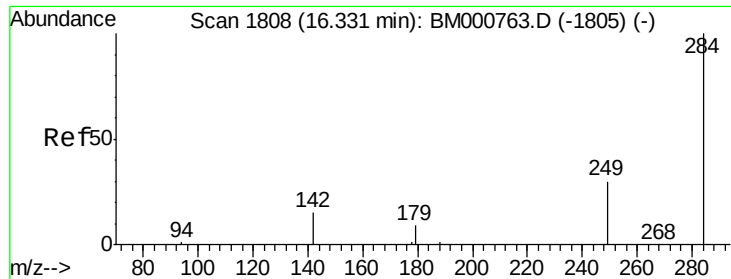
Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

Tgt Ion:188 Resp: 137909

Ion	Ratio	Lower	Upper
188	100		
94	14.6	12.0	18.0
80	15.5	12.8	19.2

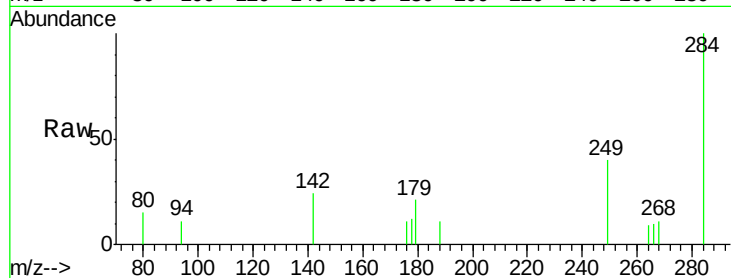




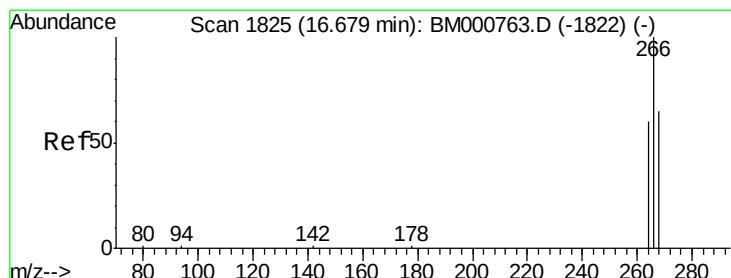
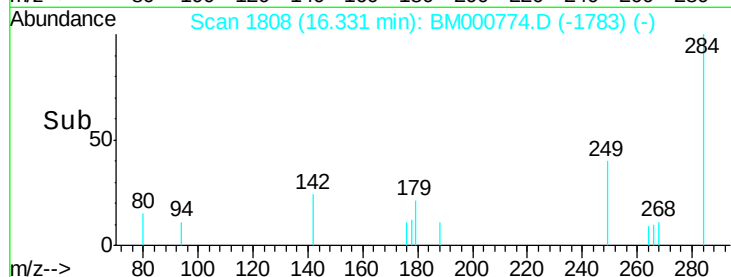
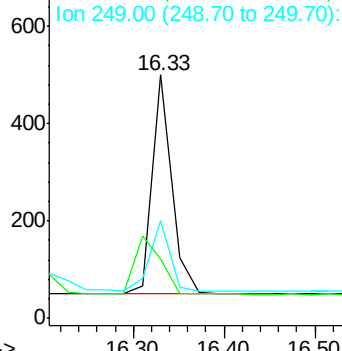
#14
Hexachlorobenzene
Concen: 0.08 ng
RT: 16.33 min Scan# 1808
Delta R.T. -0.00 min
Lab File: BM000774.D
Acq: 01 Apr 2015 03:47

Instrument :
BNA_M
ClientSampleId :
MDL-05-S

Tgt Ion: 284 Resp: 673
Ion Ratio Lower Upper
284 100
142 0.0 0.0 0.0
249 38.6 25.2 37.8#

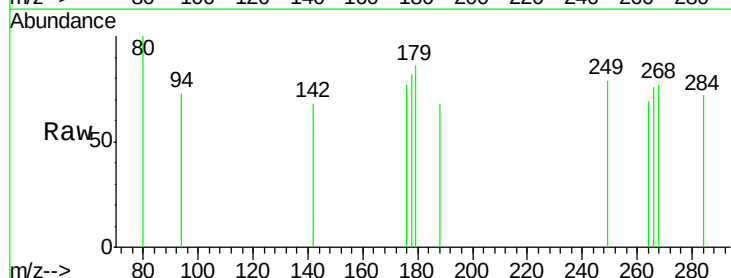


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

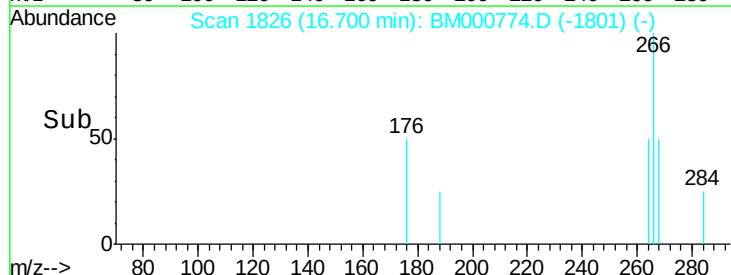
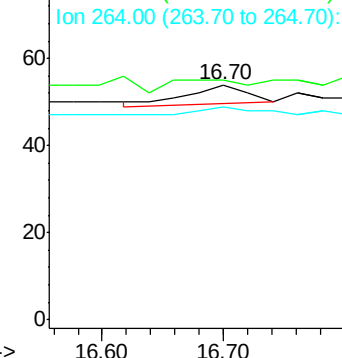


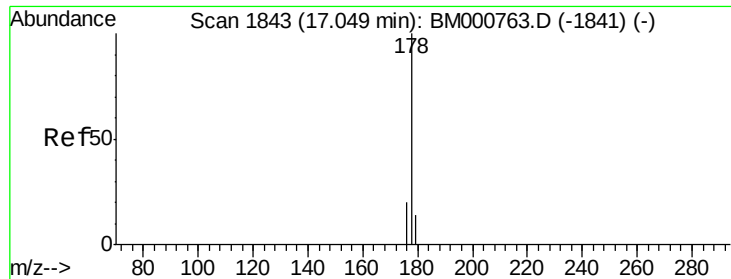
#15
Pentachlorophenol
Concen: 0.37 ng
RT: 16.70 min Scan# 1826
Delta R.T. 0.02 min
Lab File: BM000774.D
Acq: 01 Apr 2015 03:47

Tgt Ion: 266 Resp: 15
Ion Ratio Lower Upper
266 100
268 101.9 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: 0.07 ng

RT: 17.15 min Scan# 1848

Delta R.T. 0.10 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

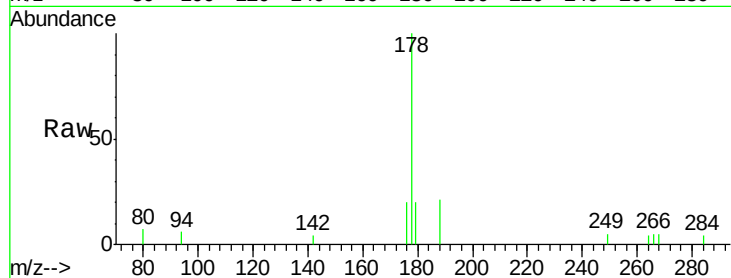
Tgt Ion:178 Resp: 2569

Ion Ratio Lower Upper

178 100

176 17.8 15.3 22.9

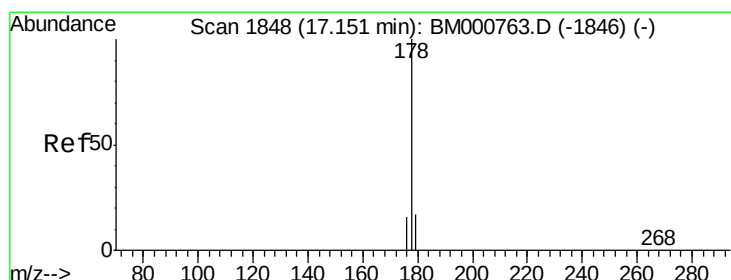
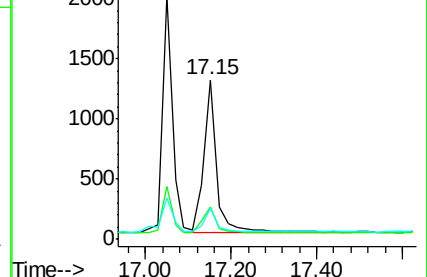
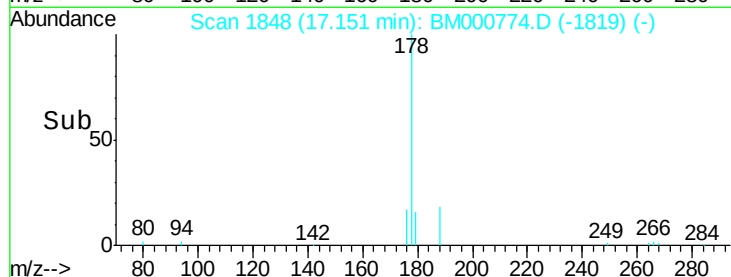
179 15.5 12.2 18.2



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: 0.08 ng

RT: 17.15 min Scan# 1848

Delta R.T. -0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

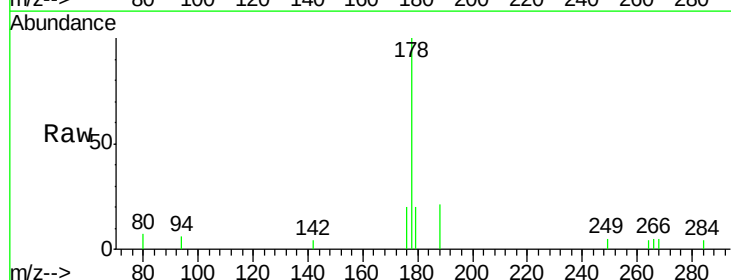
Tgt Ion:178 Resp: 2569

Ion Ratio Lower Upper

178 100

176 18.3 14.6 22.0

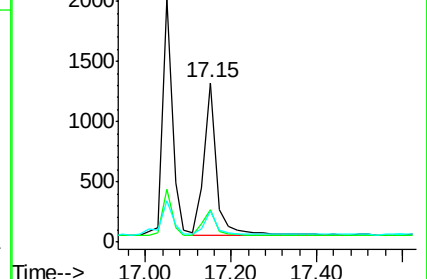
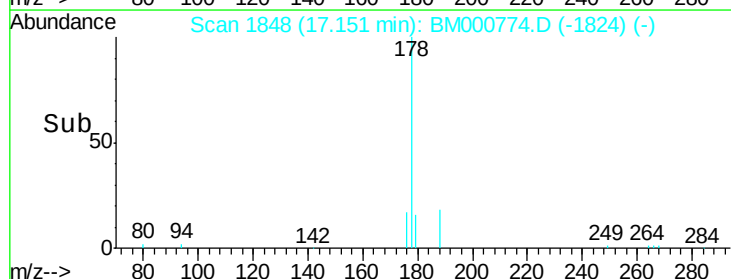
179 15.5 12.2 18.4

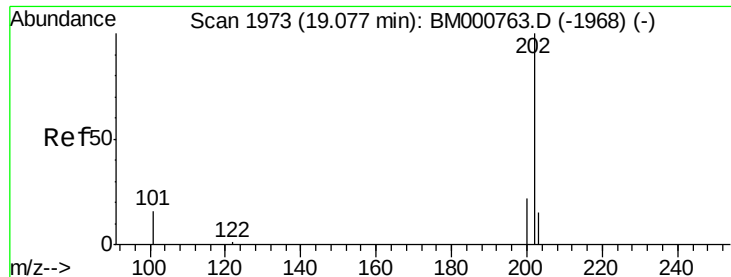


Abundance Ion 178.00 (177.70 to 178.70): E

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: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

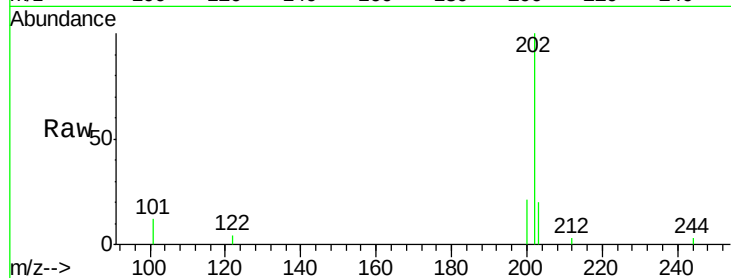
Tgt Ion:202 Resp: 3006

Ion Ratio Lower Upper

202 100

101 12.8 10.5 15.7

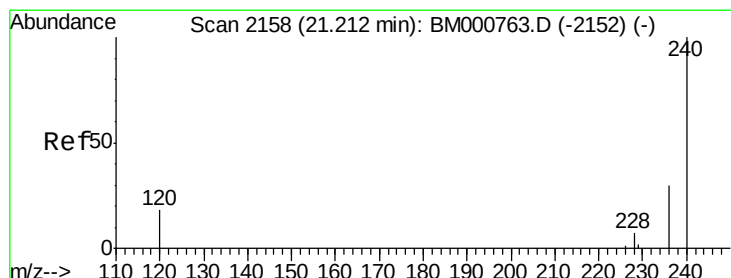
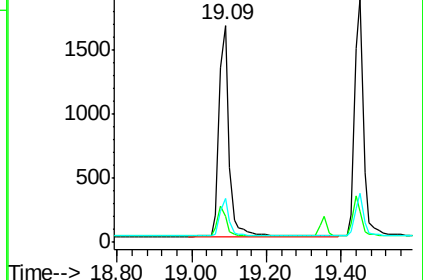
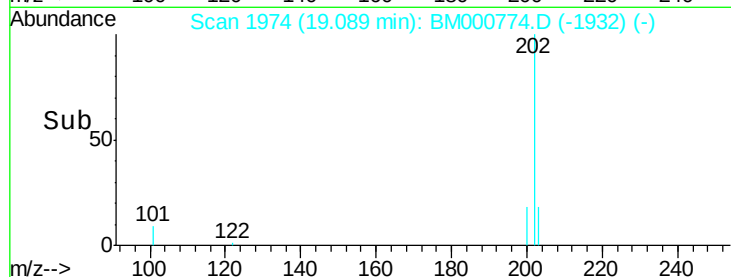
203 16.9 13.8 20.8



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: BM000774.D

Acq: 01 Apr 2015 03:47

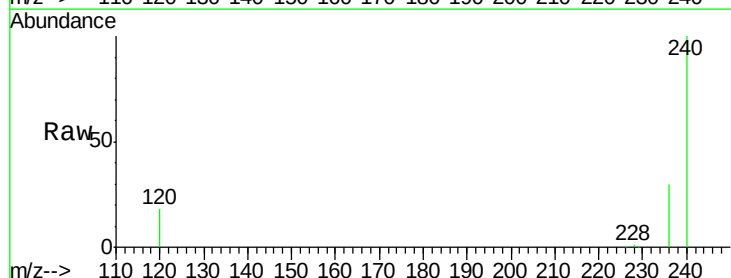
Tgt Ion:240 Resp: 116630

Ion Ratio Lower Upper

240 100

120 18.0 14.9 22.3

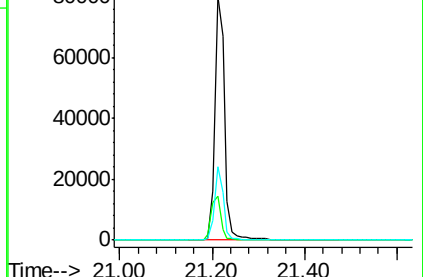
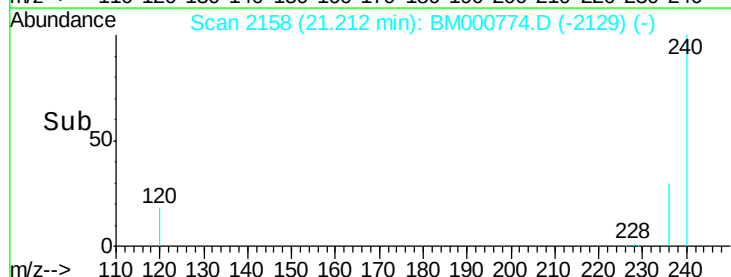
236 29.9 24.2 36.4

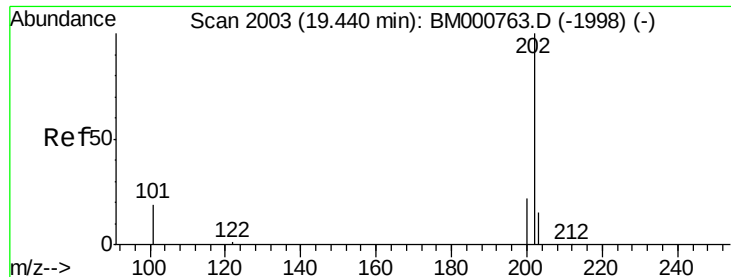


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

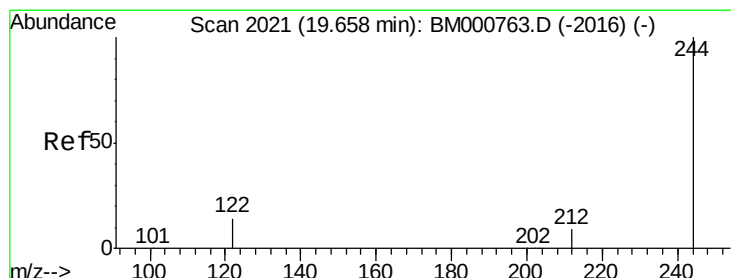
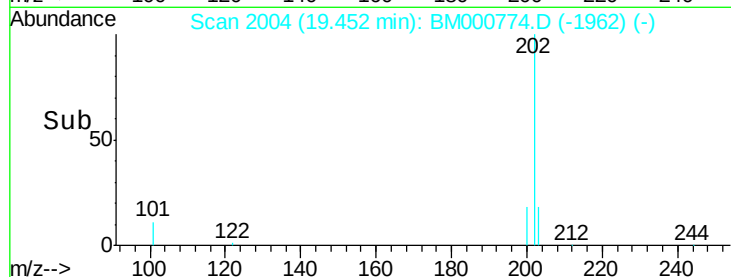
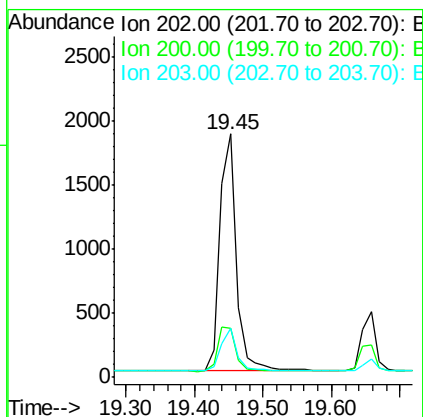
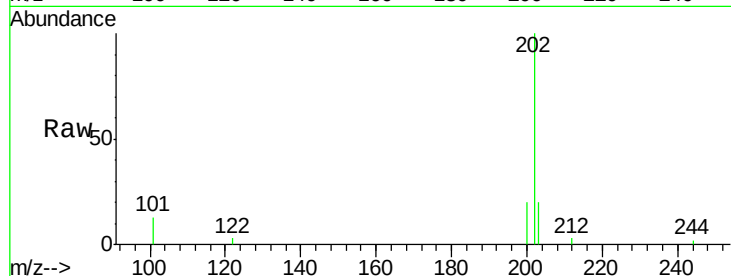




#20
Pyrene
Concen: 0.08 ng
RT: 19.45 min Scan# 2004
Delta R.T. 0.01 min
Lab File: BM000774.D
Acq: 01 Apr 2015 03:47

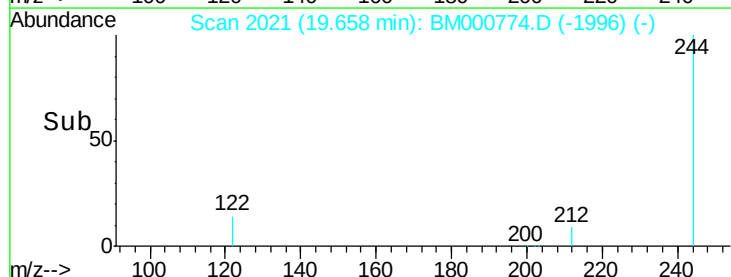
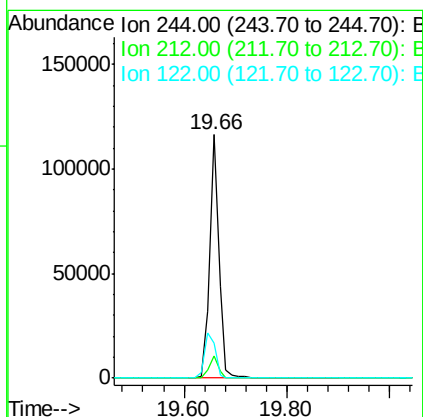
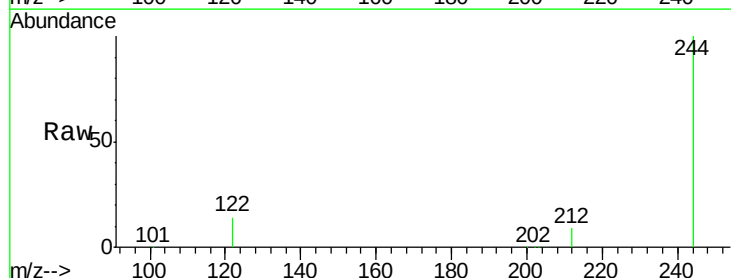
Instrument :
BNA_M
ClientSampleId :
MDL-05-S

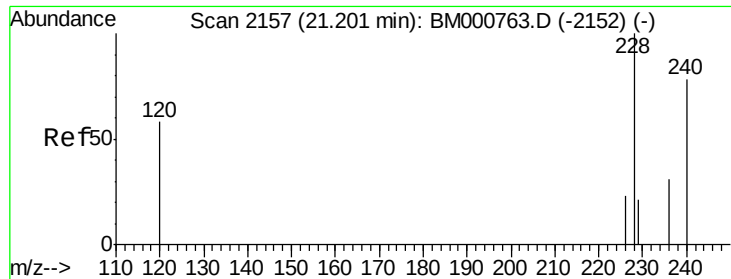
Tgt Ion:202 Resp: 3106
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.2
203 17.6 13.9 20.9



#21
Terphenyl-d14
Concen: 10.46 ng
RT: 19.66 min Scan# 2021
Delta R.T. -0.00 min
Lab File: BM000774.D
Acq: 01 Apr 2015 03:47

Tgt Ion:244 Resp: 146750
Ion Ratio Lower Upper
244 100
212 9.4 7.8 11.6
122 14.3 11.8 17.8





#22

Benzo(a)anthracene

Concen: 0.09 ng

RT: 21.20 min Scan# 2157

Delta R.T. -0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

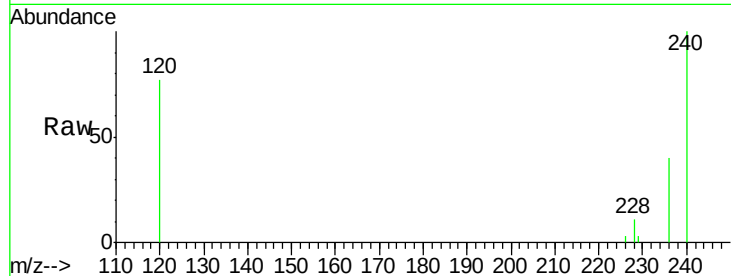
Tgt Ion:228 Resp: 2936

Ion Ratio Lower Upper

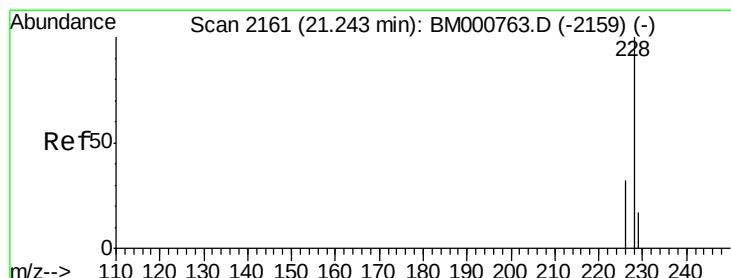
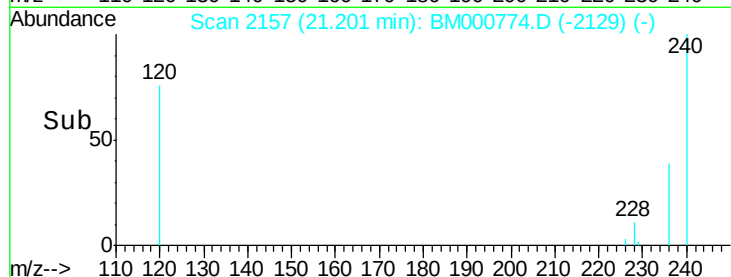
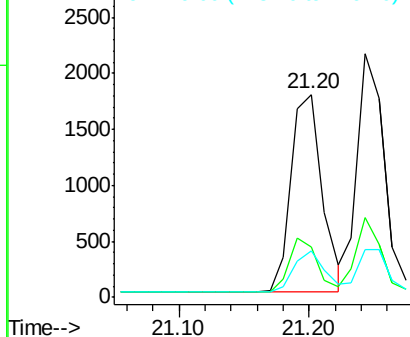
228 100

226 24.7 18.6 27.8

229 22.9 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: 0.09 ng

RT: 21.24 min Scan# 2161

Delta R.T. -0.00 min

Lab File: BM000774.D

Acq: 01 Apr 2015 03:47

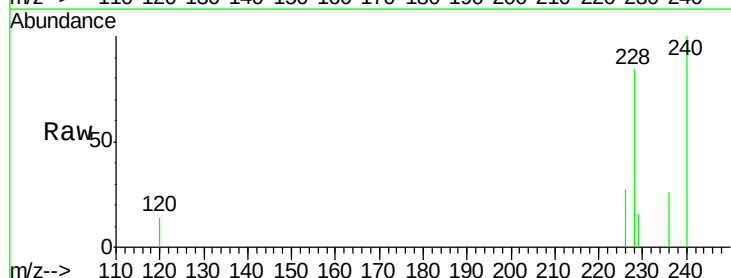
Tgt Ion:228 Resp: 3213

Ion Ratio Lower Upper

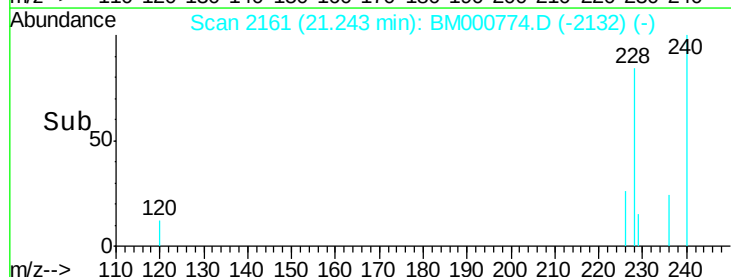
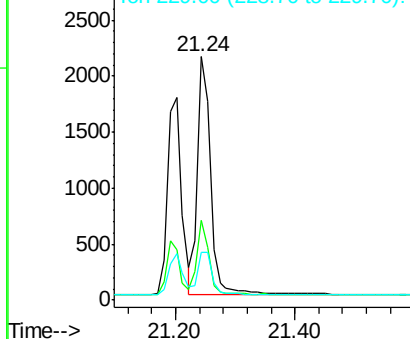
228 100

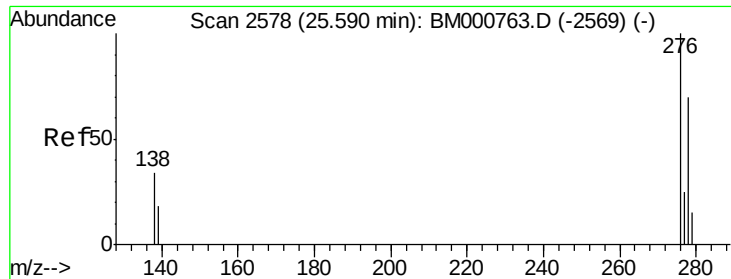
226 32.6 25.8 38.8

229 19.5 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: BM000774.D

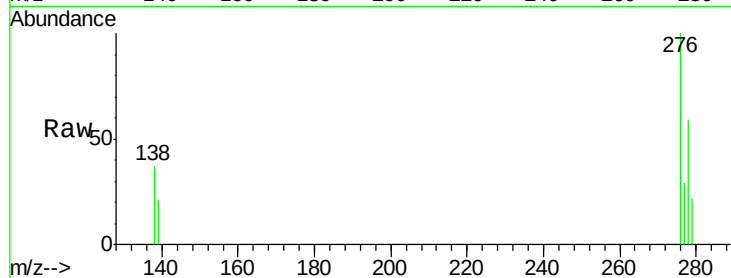
Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S



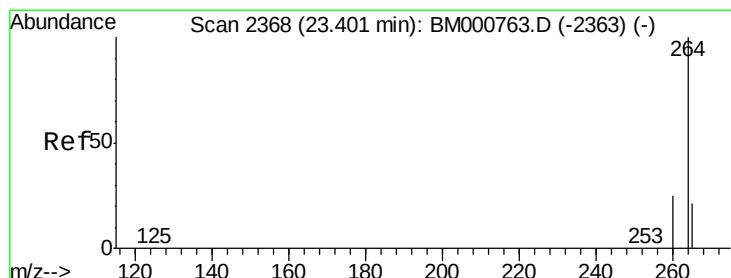
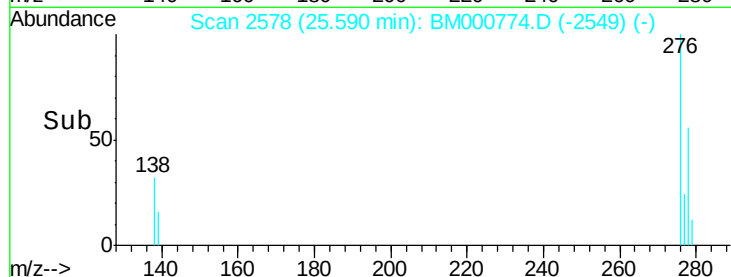
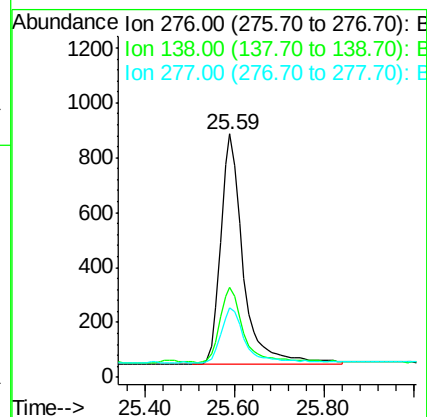
Tgt Ion:276 Resp: 2926

Ion Ratio Lower Upper

276 100

138 34.1 27.4 41.2

277 24.4 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: BM000774.D

Acq: 01 Apr 2015 03:47

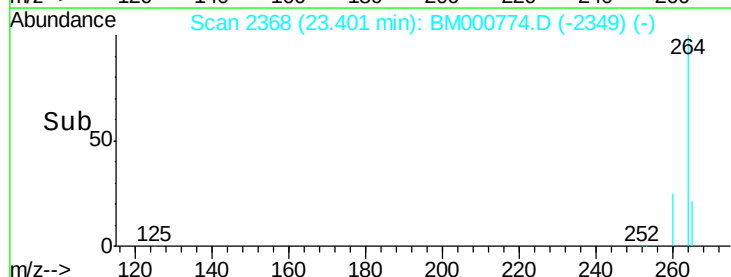
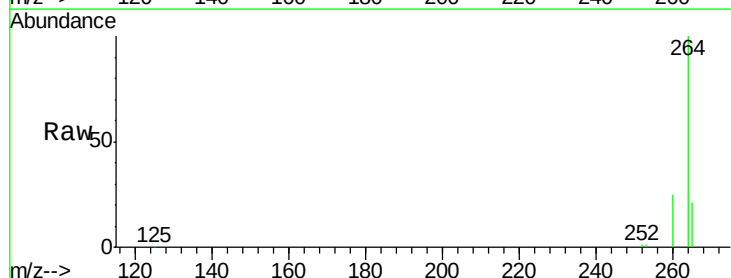
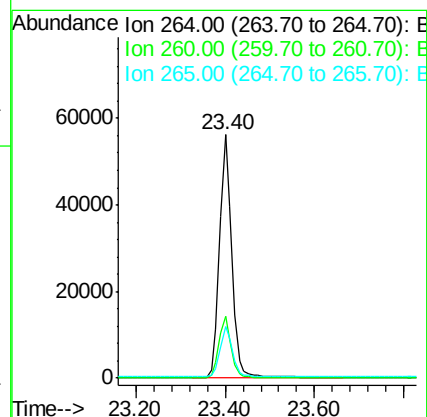
Tgt Ion:264 Resp: 107837

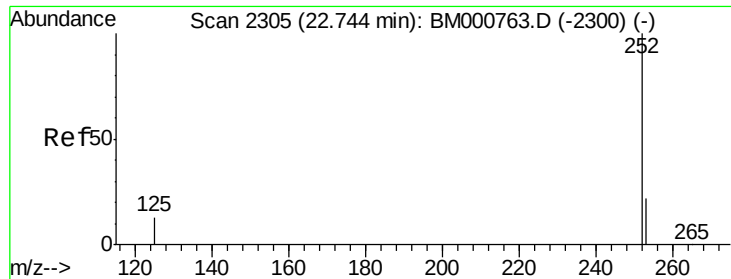
Ion Ratio Lower Upper

264 100

260 25.2 20.1 30.1

265 21.1 17.4 26.0

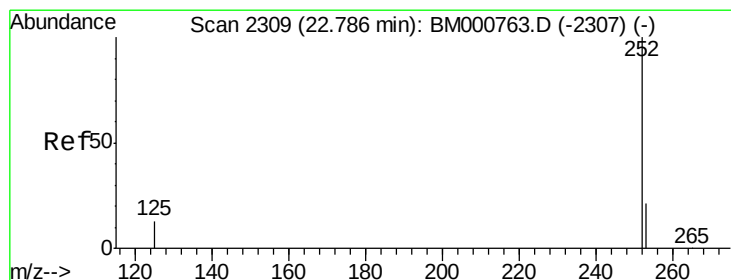
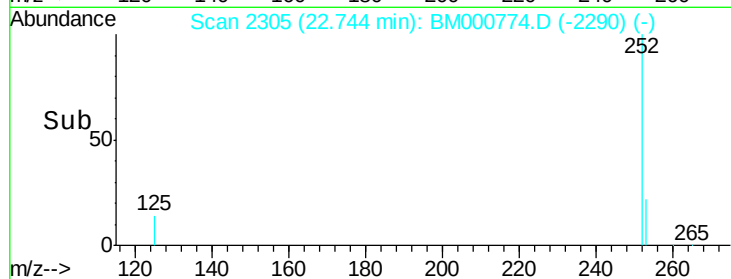
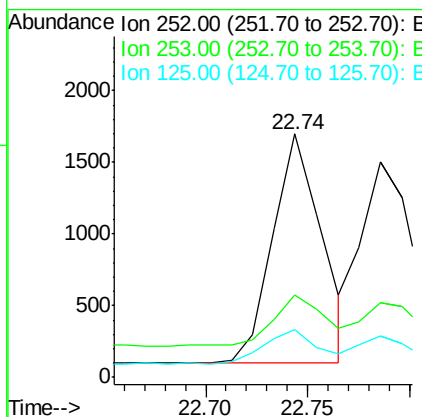
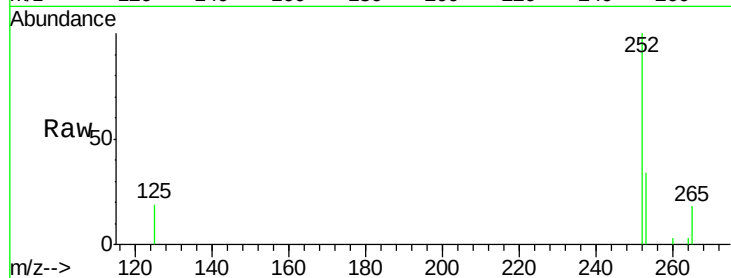




#26
Benzo(b)fluoranthene
Concen: 0.08 ng
RT: 22.74 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BM000774.D
Acq: 01 Apr 2015 03:47

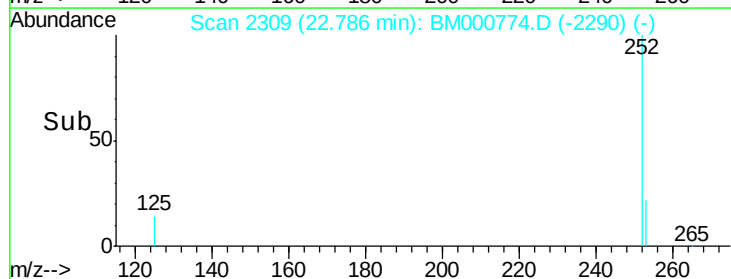
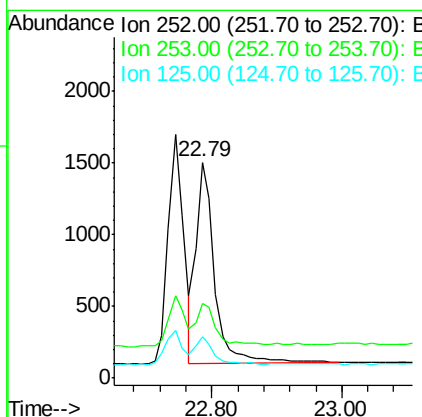
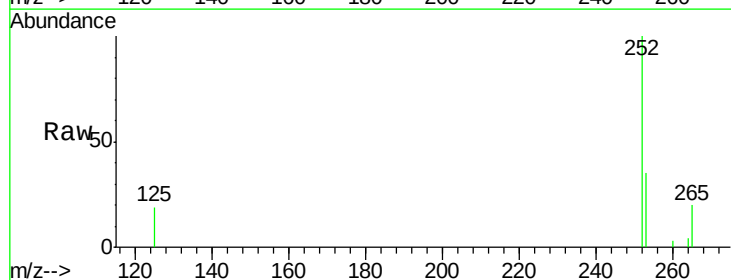
Instrument :
BNA_M
ClientSampleId :
MDL-05-S

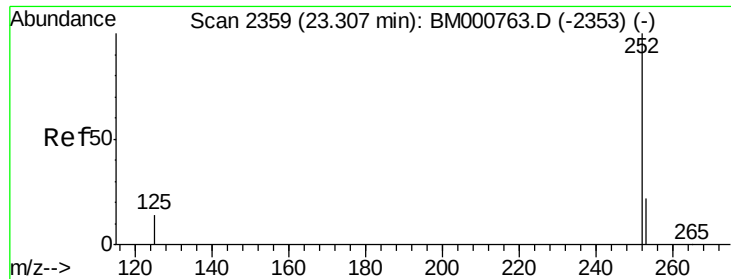
Tgt Ion:252 Resp: 2669
Ion Ratio Lower Upper
252 100
253 33.8 18.5 27.7#
125 19.4 10.6 16.0#



#27
Benzo(k)fluoranthene
Concen: 0.09 ng
RT: 22.79 min Scan# 2309
Delta R.T. -0.00 min
Lab File: BM000774.D
Acq: 01 Apr 2015 03:47

Tgt Ion:252 Resp: 2791
Ion Ratio Lower Upper
252 100
253 34.8 17.9 26.9#
125 19.2 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: BM000774.D

Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S

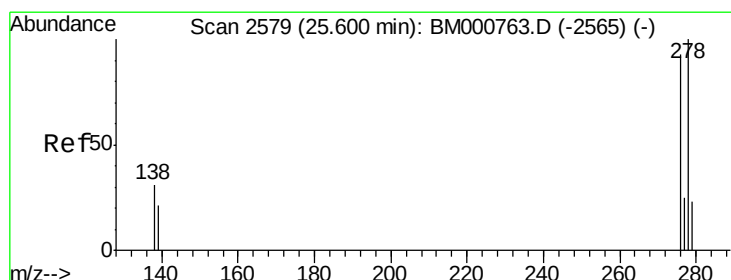
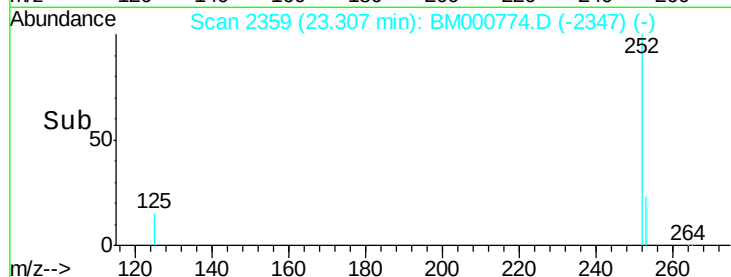
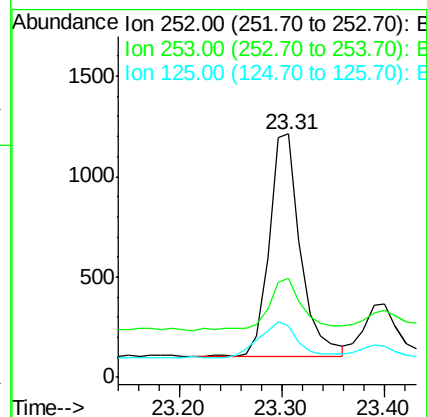
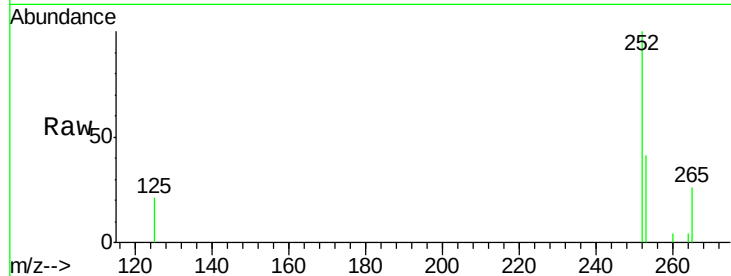
Tgt Ion:252 Resp: 2377

Ion Ratio Lower Upper

252 100

253 40.8 19.4 29.2#

125 21.2 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: BM000774.D

Acq: 01 Apr 2015 03:47

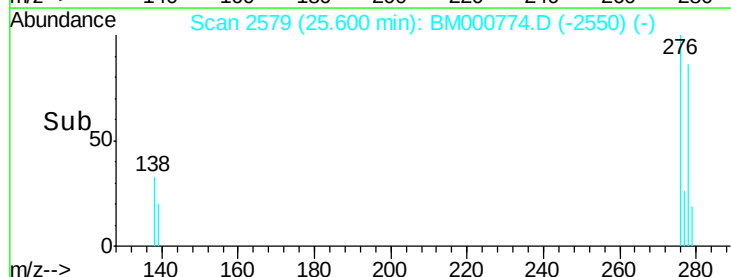
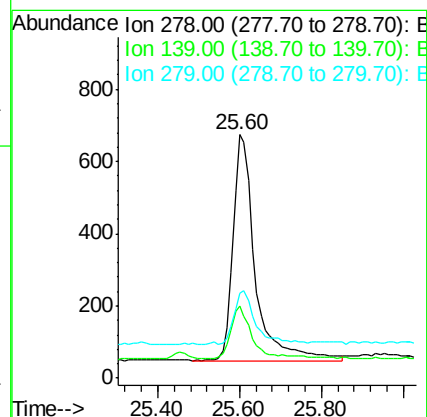
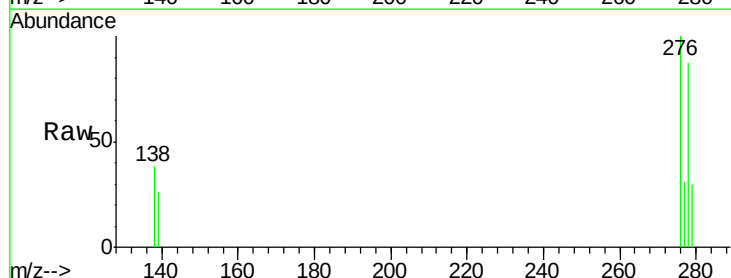
Tgt Ion:278 Resp: 2356

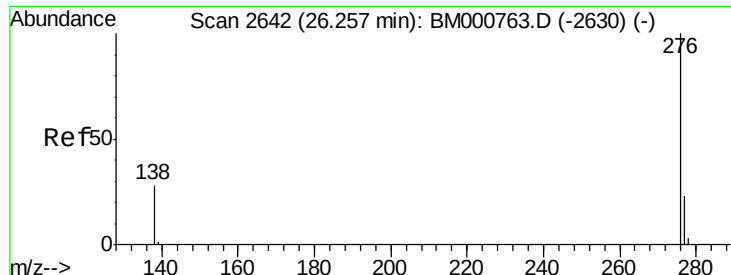
Ion Ratio Lower Upper

278 100

139 29.5 17.8 26.6#

279 34.7 19.3 28.9#





#30

Benzo(g,h,i)perylene

Concen: 0.09 ng

RT: 26.26 min Scan# 2642

Delta R.T. -0.00 min

Lab File: BM000774.D

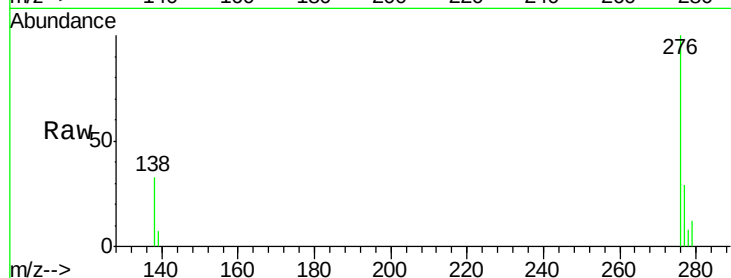
Acq: 01 Apr 2015 03:47

Instrument :

BNA_M

ClientSampleId :

MDL-05-S



Tgt Ion: 276 Resp: 2705

Ion Ratio Lower Upper

276 100

277 28.9 19.1 28.7#

138 32.7 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

