

Data Path : Z:\HPCHEM1\BNA M\DATA\BM041815\
 Data File : BM001054.D
 Acq On : 18 Apr 2015 10:25
 Operator : TP/IZ
 Sample : PB82802BSD
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PB82802BSD

Quant Time: Apr 20 08:16:47 2015
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SIMPAH-BM041815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 20 08:05:22 2015
 Response via : Initial Calibration

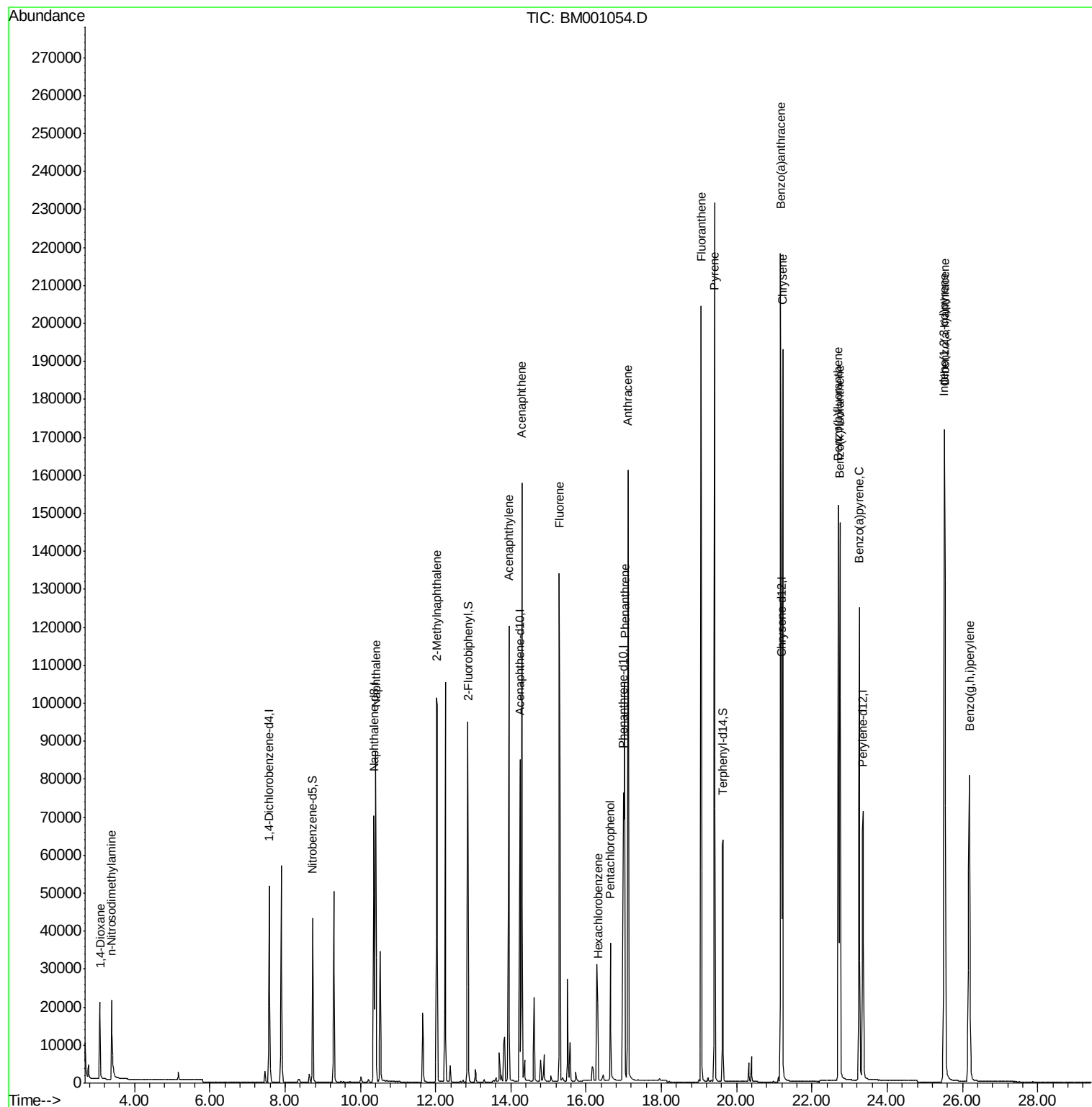
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	25918	5.00	ng	0.00
4) Naphthalene-d8	10.36	136	93877	5.00	ng	0.00
8) Acenaphthene-d10	14.24	164	51207	5.00	ng	0.00
13) Phenanthrene-d10	16.99	188	110775	5.00	ng	0.00
19) Chrysene-d12	21.19	240	101360	5.00	ng	0.00
25) Perylene-d12	23.36	264	92911	5.00	ng	0.00
System Monitoring Compounds						
5) Nitrobenzene-d5	8.74	82	34756	7.09	ng	0.00
9) 2-Fluorobiphenyl	12.86	172	96722	5.72	ng	0.00
21) Terphenyl-d14	19.63	244	80028	5.96	ng	0.00
Target Compounds						Ovalue
2) 1,4-Dioxane	3.08	88	13313	4.55	ng	# 100
3) n-Nitrosodimethylamine	3.39	42	16823	6.15	ng	97
6) Naphthalene	10.41	128	123021	5.49	ng	99
7) 2-Methylnaphthalene	12.04	142	80858	5.60	ng	98
10) Acenaphthylene	13.95	152	141316	6.25	ng	99
11) Acenaphthene	14.29	154	83649	5.28	ng	99
12) Fluorene	15.29	166	104640	5.74	ng	99
14) Hexachlorobenzene	16.31	284	34316	5.61	ng	# 100
15) Pentachlorophenol	16.64	266	29253	13.23	ng	95
16) Phenanthrene	17.03	178	160082	5.44	ng	99
17) Anthracene	17.11	178	175839	6.50	ng	99
18) Fluoranthene	19.05	202	186312	6.07	ng	100
20) Pyrene	19.42	202	200349	5.96	ng	99
22) Benzo(a)anthracene	21.17	228	181278	6.17	ng	99
23) Chrysene	21.22	228	177607	5.74	ng	99
24) Indeno(1,2,3-cd)pyrene	25.52	276	185039	5.86	ng	99
26) Benzo(b)fluoranthene	22.70	252	176916	5.92	ng	97
27) Benzo(k)fluoranthene	22.74	252	171756	6.00	ng	98
28) Benzo(a)pyrene	23.25	252	162743	6.38	ng	97
29) Dibenzo(a,h)anthracene	25.53	278	150841	5.97	ng	99
30) Benzo(g,h,i)perylene	26.18	276	157509	5.76	ng	98

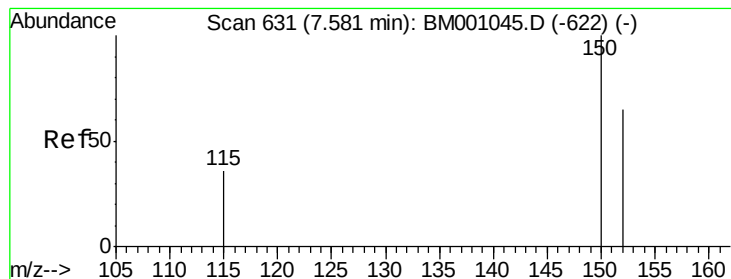
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.58 min Scan# 631

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

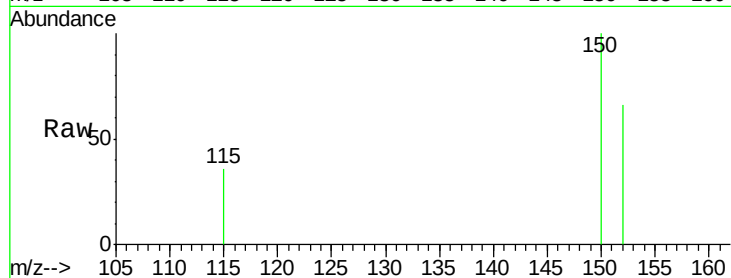
Tot Ion:152 Resp: 25918

Ion Ratio Lower Upper

152 100

150 151.9 123.3 184.9

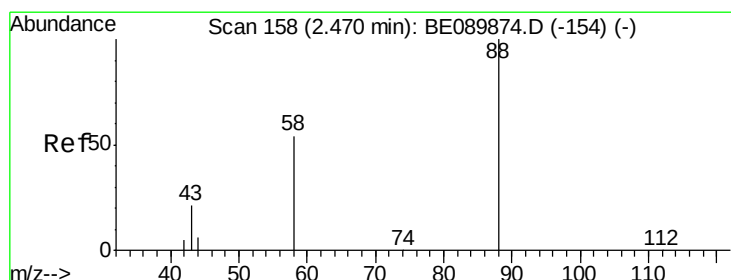
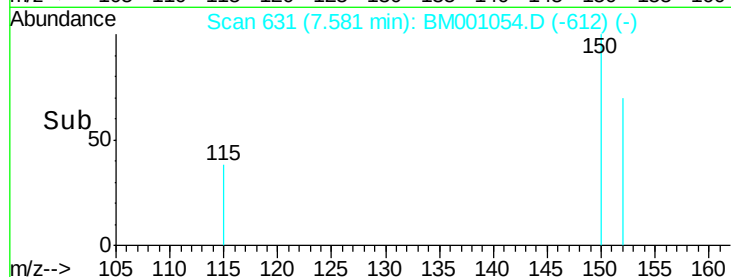
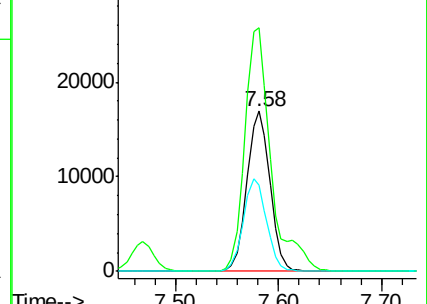
115 54.1 45.0 67.6



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



#2

1,4-Dioxane

Concen: 4.55 ng

RT: 3.08 min Scan# 39

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

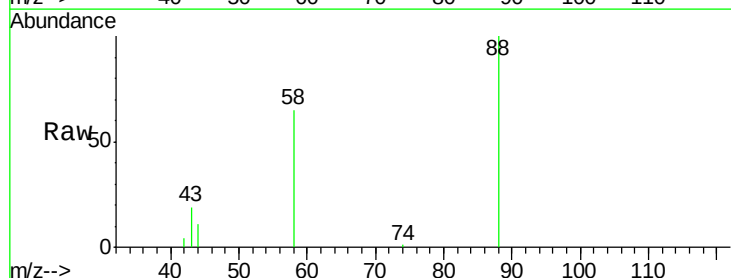
Tgt Ion: 88 Resp: 13313

Ion Ratio Lower Upper

88 100

58 86.4 0.0 0.0#

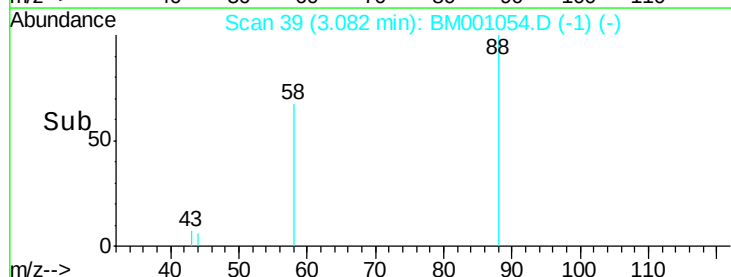
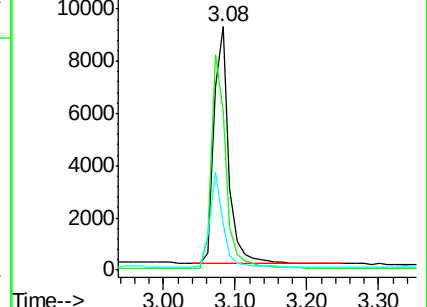
43 35.1 0.0 0.0#

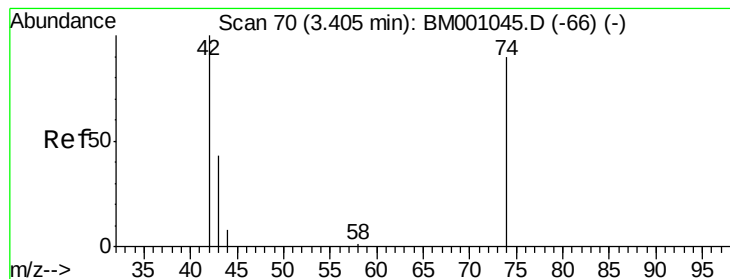


Abundance Ion 88.00 (87.70 to 88.70): BM0

Ion 58.00 (57.70 to 58.70): BM0

Ion 43.00 (42.70 to 43.70): BM0





#3

n-Nitrosodimethylamine

Concen: 6.15 ng

RT: 3.39 min Scan# 69

Delta R.T. -0.01 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

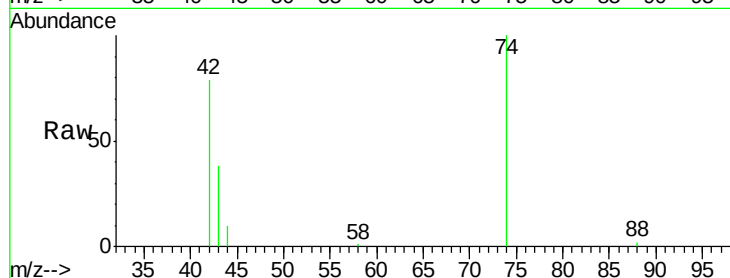
Tot Ion: 42 Resp: 16823

Ion Ratio Lower Upper

42 100

74 112.0 92.1 138.1

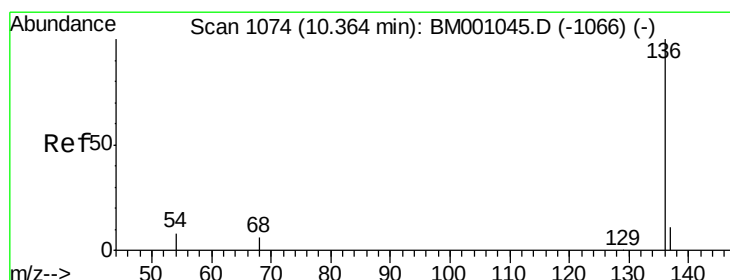
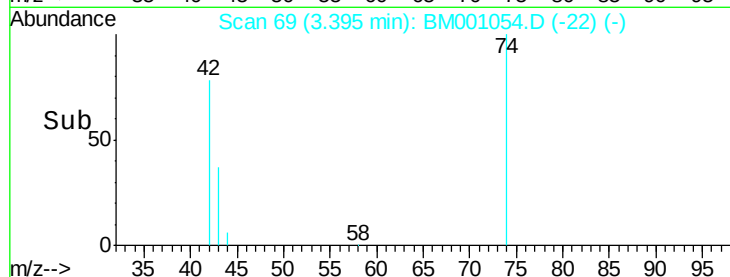
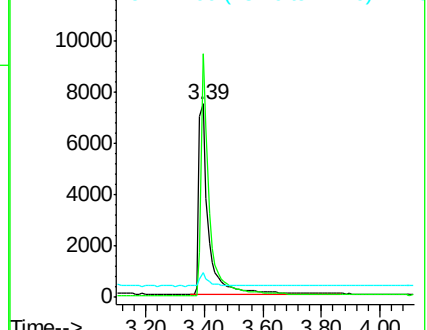
44 6.2 5.8 8.6



Abundance Ion 42.00 (41.70 to 42.70): BM001045.D (-66) (-)

Ion 74.00 (73.70 to 74.70): BM001045.D (-66) (-)

Ion 44.00 (43.70 to 44.70): BM001045.D (-66) (-)



#4

Naphthalene-d8

Concen: 5.00 ng

RT: 10.36 min Scan# 1074

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

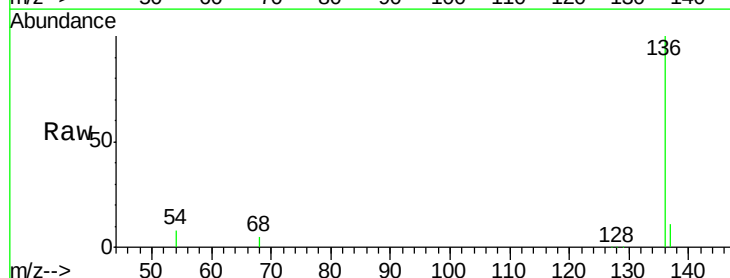
Tgt Ion: 136 Resp: 93877

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

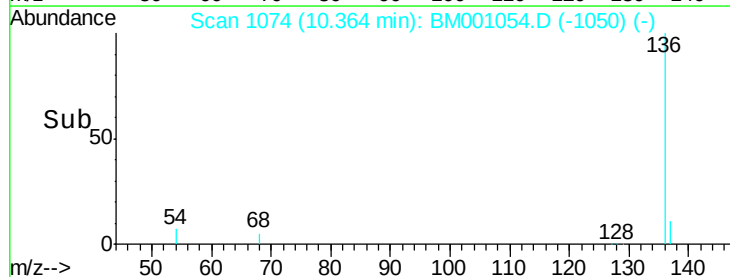
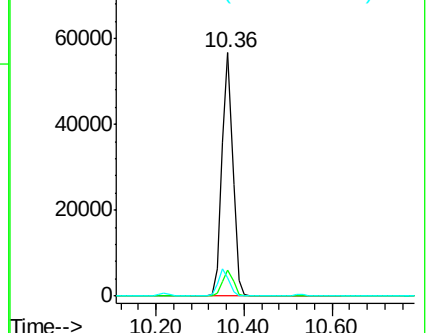
54 7.5 6.5 9.7

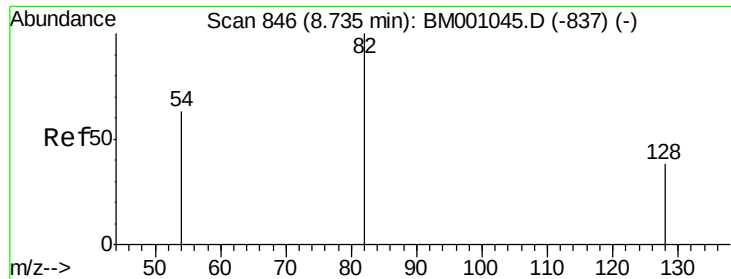


Abundance Ion 136.00 (135.70 to 136.70): BM001045.D (-1066) (-)

Ion 137.00 (136.70 to 137.70): BM001045.D (-1066) (-)

Ion 54.00 (53.70 to 54.70): BM001045.D (-1066) (-)





#5

Nitrobenzene-d5

Concen: 7.09 ng

RT: 8.74 min Scan# 846

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

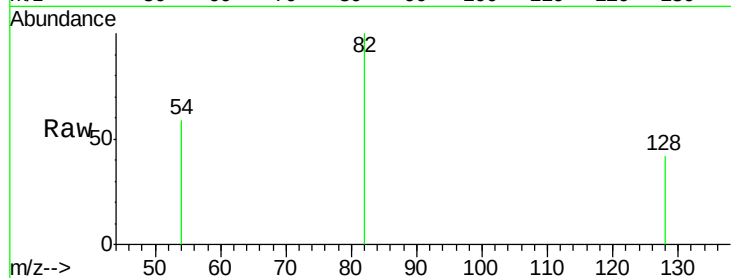
Tot Ion: 82 Resp: 34756

Ion Ratio Lower Upper

82 100

128 42.0 31.9 47.9

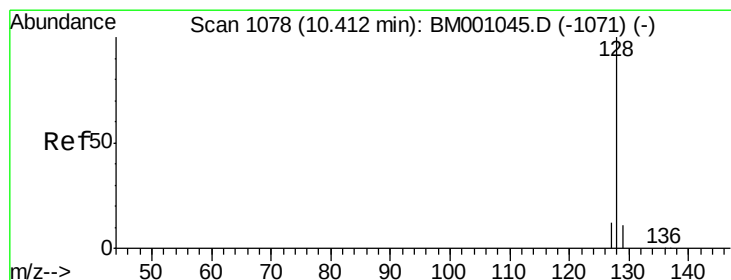
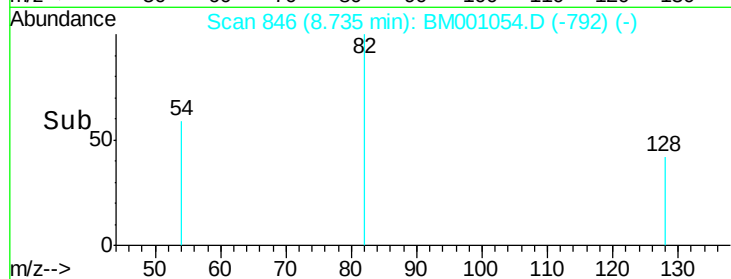
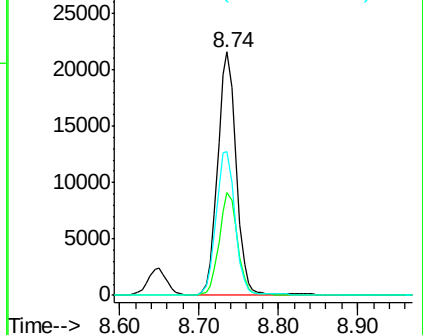
54 58.8 51.3 76.9



Abundance Ion 82.00 (81.70 to 82.70): BM001045.D (-837) (-)

Ion 128.00 (127.70 to 128.70): BM001045.D (-837) (-)

Ion 54.00 (53.70 to 54.70): BM001045.D (-837) (-)



#6

Naphthalene

Concen: 5.49 ng

RT: 10.41 min Scan# 1078

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

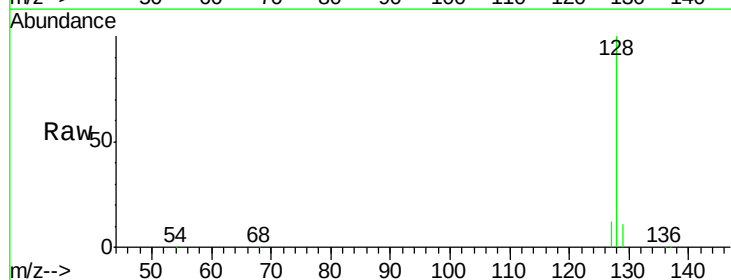
Tgt Ion: 128 Resp: 123021

Ion Ratio Lower Upper

128 100

129 11.3 9.3 13.9

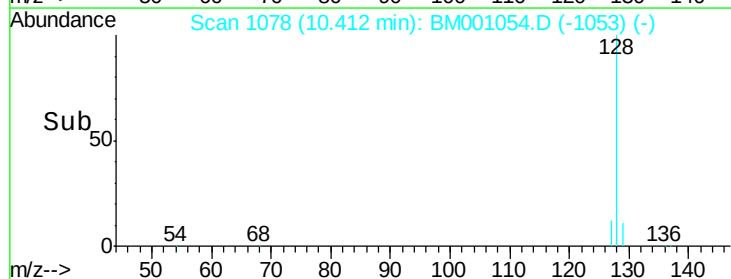
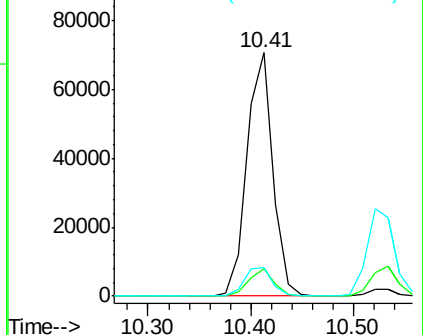
127 11.8 10.0 15.0

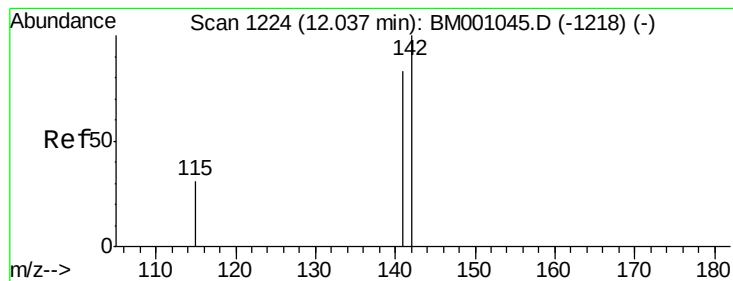


Abundance Ion 128.00 (127.70 to 128.70): BM001045.D (-1071) (-)

Ion 129.00 (128.70 to 129.70): BM001045.D (-1071) (-)

Ion 127.00 (126.70 to 127.70): BM001045.D (-1071) (-)





#7

2-Methylnaphthalene

Concen: 5.60 ng

RT: 12.04 min Scan# 1224

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

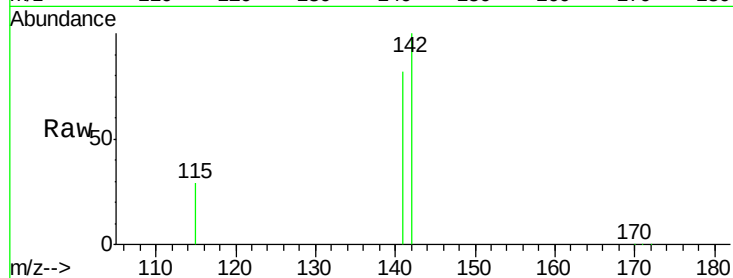
Tot Ion:142 Resp: 80858

Ion Ratio Lower Upper

142 100

141 82.1 66.7 100.1

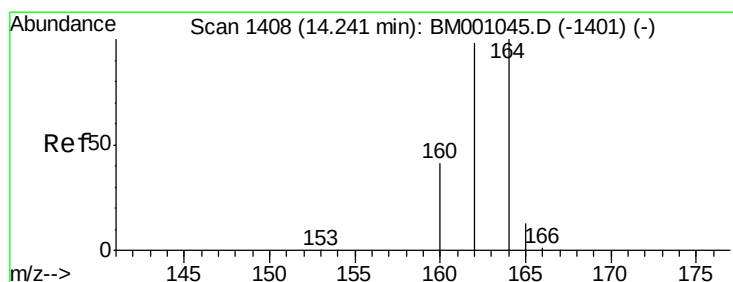
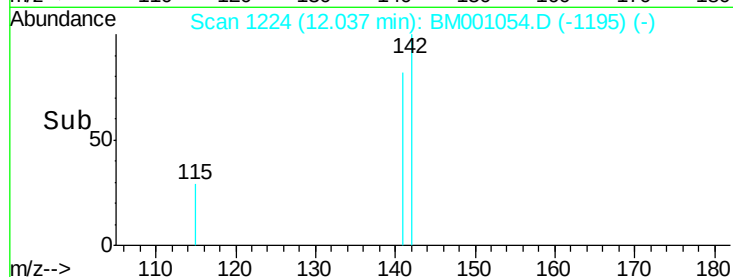
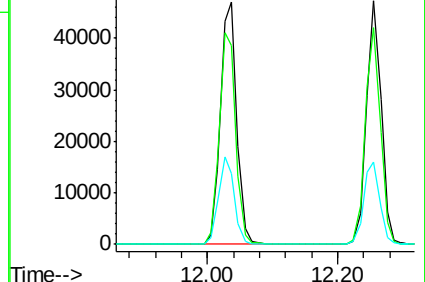
115 29.3 25.5 38.3



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: 14.24 min Scan# 1408

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

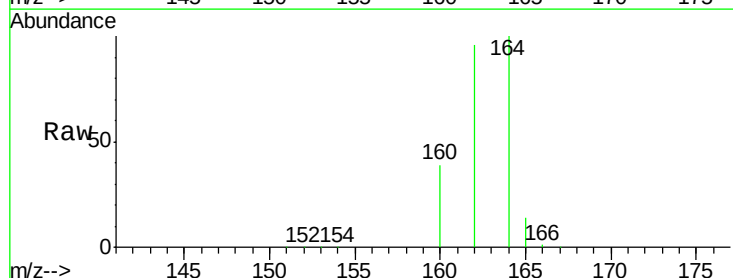
Tgt Ion:164 Resp: 51207

Ion Ratio Lower Upper

164 100

162 96.0 78.5 117.7

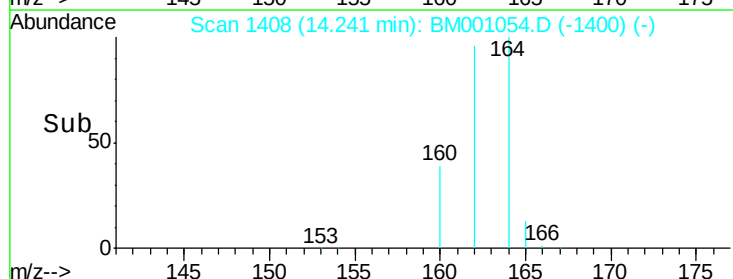
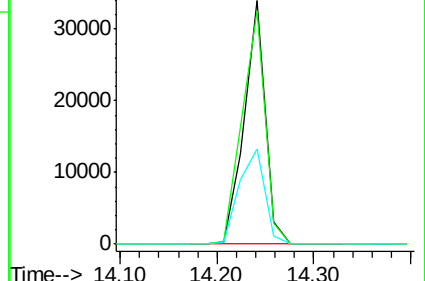
160 39.0 32.9 49.3

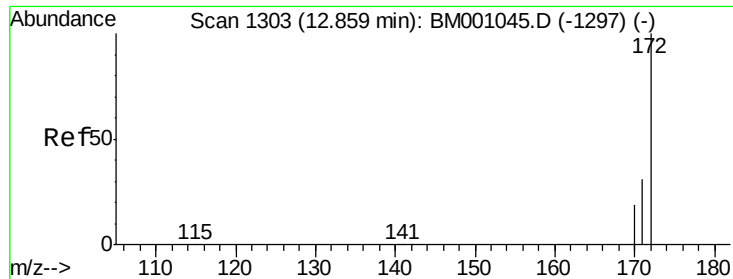


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#9

2-Fluorobiphenyl

Concen: 5.72 ng

RT: 12.86 min Scan# 1303

Delta R.T. 0.00 min

Lab File: BM001054.D

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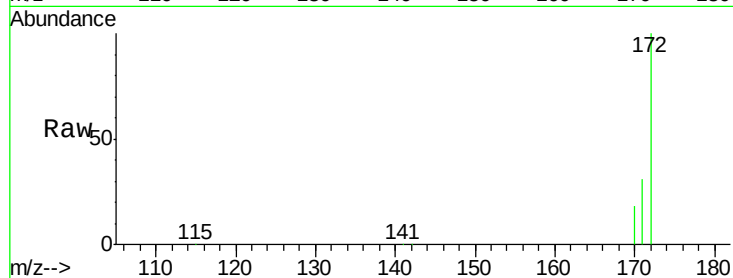
Tot Ion:172 Resp: 96722

Ion Ratio Lower Upper

172 100

171 30.7 25.6 38.4

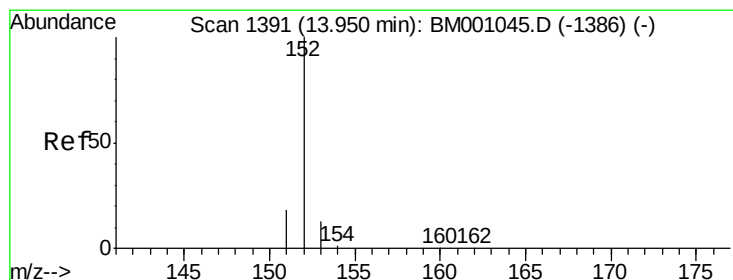
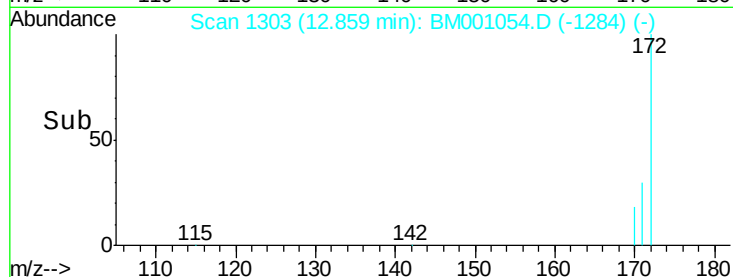
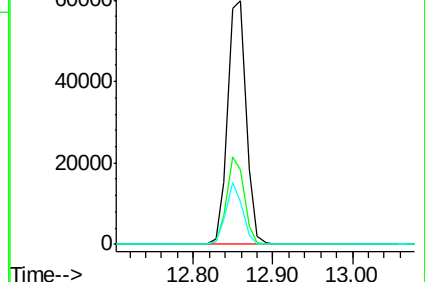
170 17.8 15.8 23.6



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#10

Acenaphthylene

Concen: 6.25 ng

RT: 13.95 min Scan# 1391

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

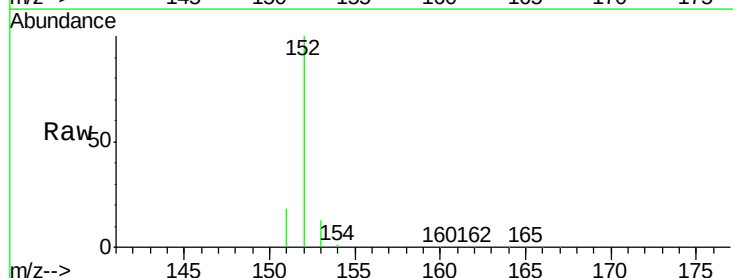
Tgt Ion:152 Resp: 141316

Ion Ratio Lower Upper

152 100

151 18.8 14.7 22.1

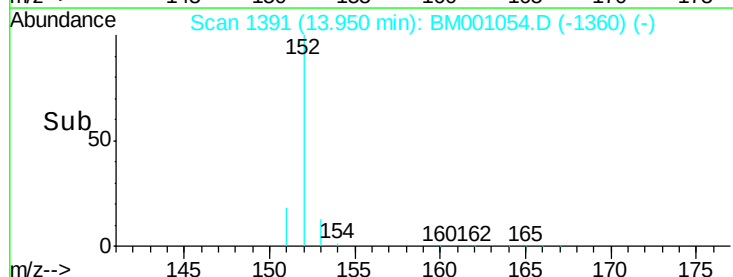
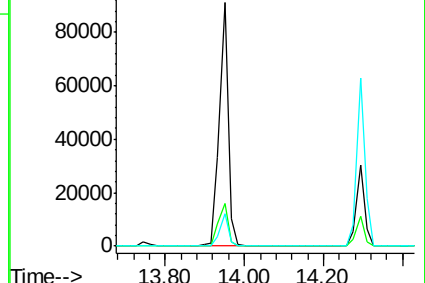
153 12.9 10.2 15.2

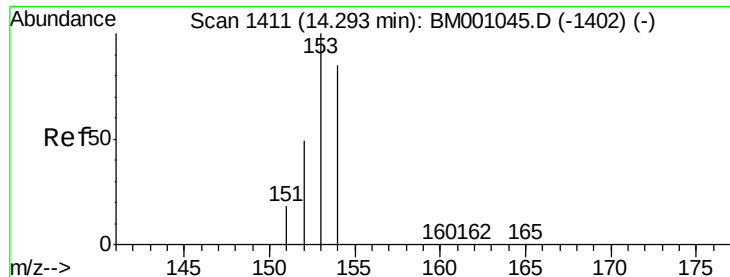


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#11

Acenaphthene

Concen: 5.28 ng

RT: 14.29 min Scan# 1411

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

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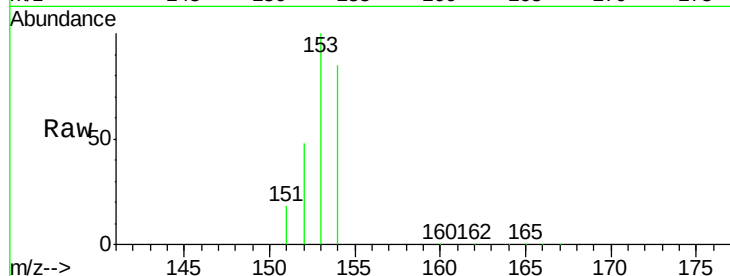
Tot Ion:154 Resp: 83649

Ion Ratio Lower Upper

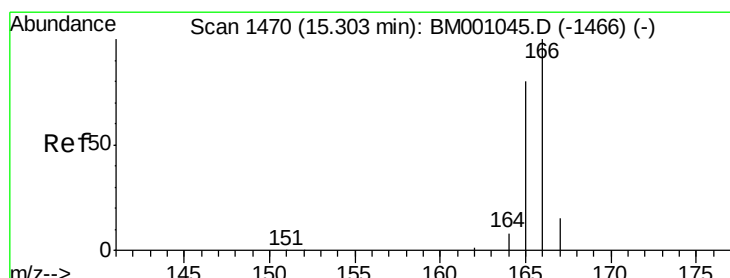
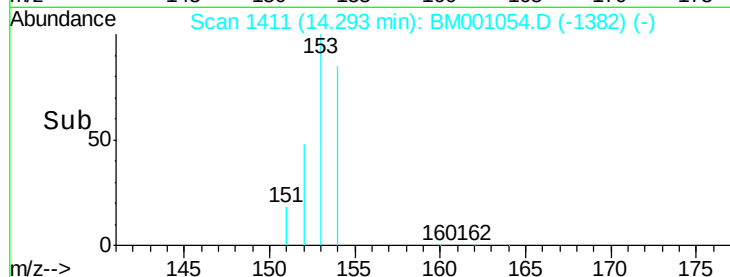
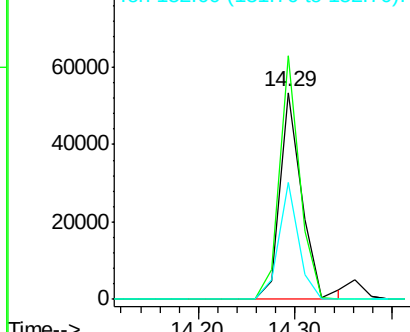
154 100

153 108.9 88.1 132.1

152 52.0 42.3 63.5



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: 5.74 ng

RT: 15.29 min Scan# 1469

Delta R.T. -0.02 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

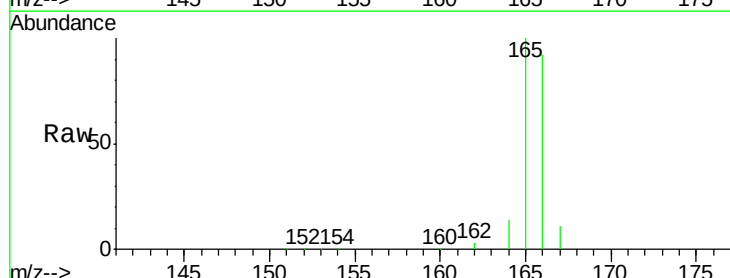
Tgt Ion:166 Resp: 104640

Ion Ratio Lower Upper

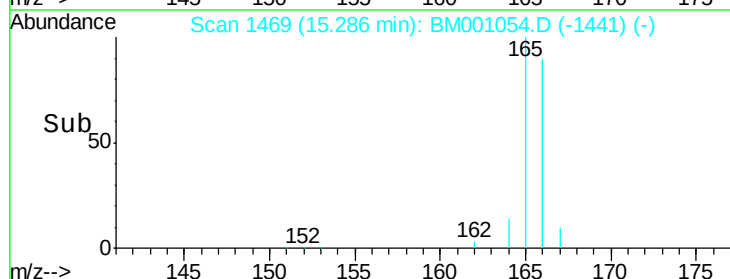
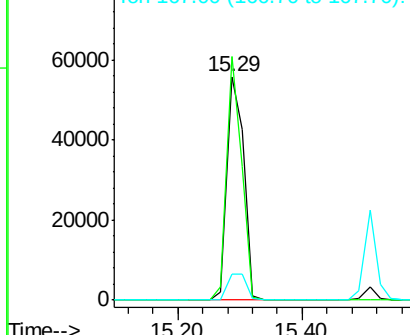
166 100

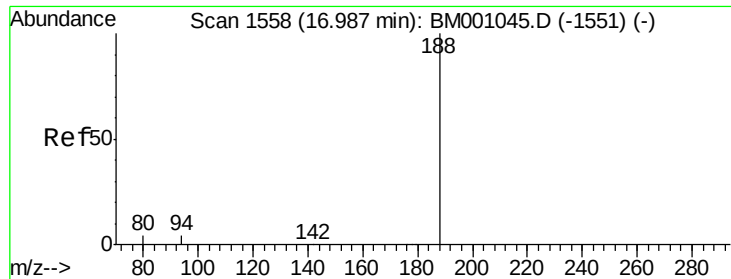
165 96.4 77.6 116.4

167 13.4 10.6 16.0



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





#13

Phenanthrene-d10

Concen: 5.00 ng

RT: 16.99 min Scan# 1558

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

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ClientSampleId :

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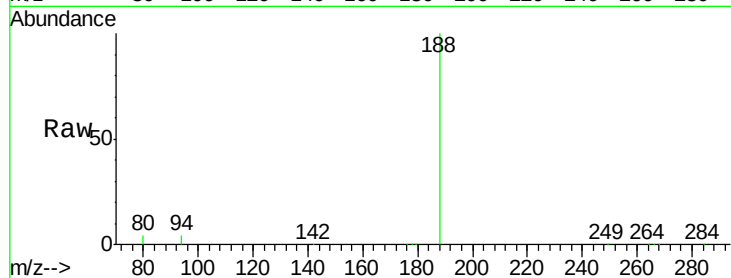
Tot Ion:188 Resp: 110775

Ion Ratio Lower Upper

188 100

94 4.2 3.6 5.4

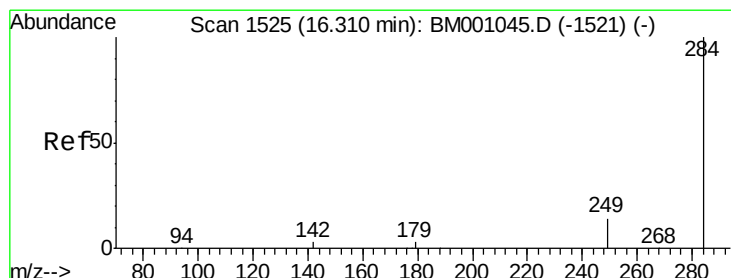
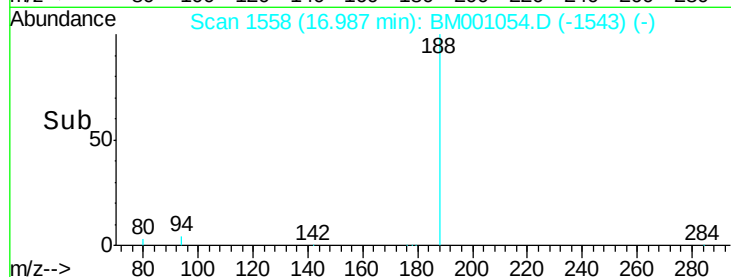
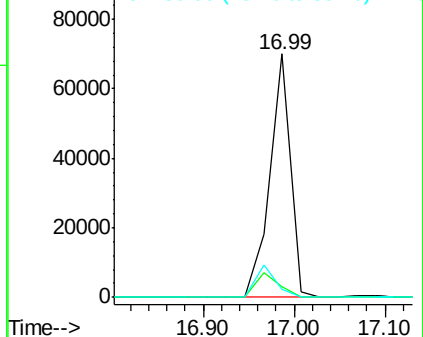
80 3.6 3.0 4.6



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



#14

Hexachlorobenzene

Concen: 5.61 ng

RT: 16.31 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

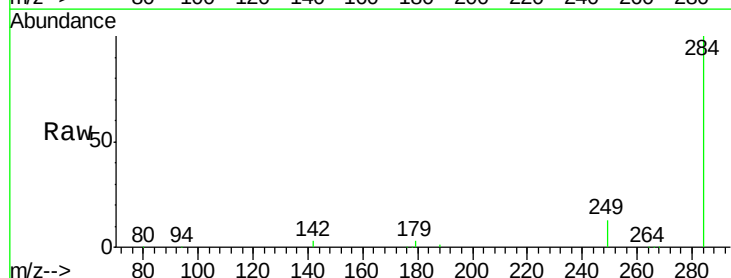
Tgt Ion:284 Resp: 34316

Ion Ratio Lower Upper

284 100

142 0.0 0.0 0.0

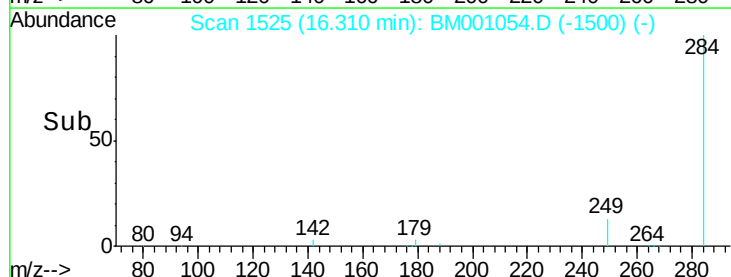
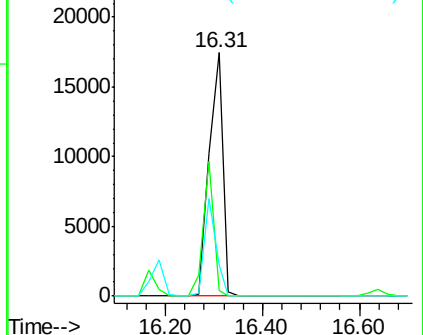
249 0.0 0.0 0.0

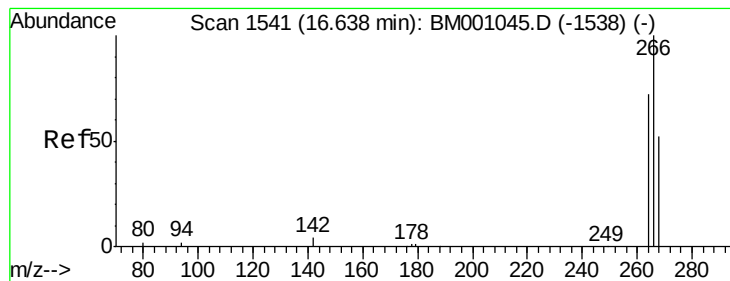


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E





#15

Pentachlorophenol

Concen: 13.23 ng

RT: 16.64 min Scan# 1541

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

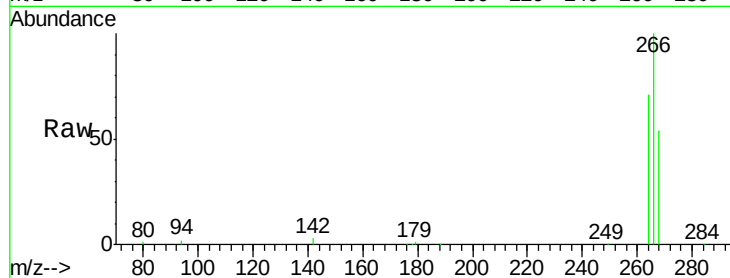
Tot Ion:266 Resp: 29253

Ion Ratio Lower Upper

266 100

268 53.8 46.3 69.5

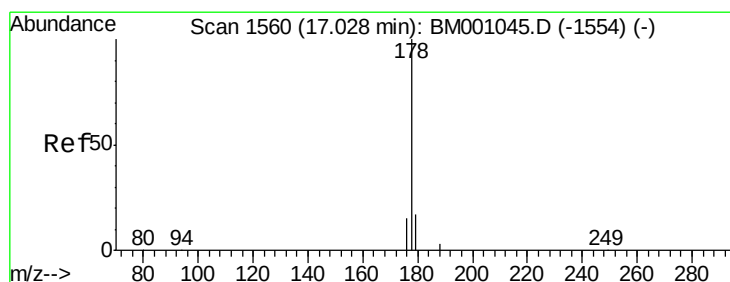
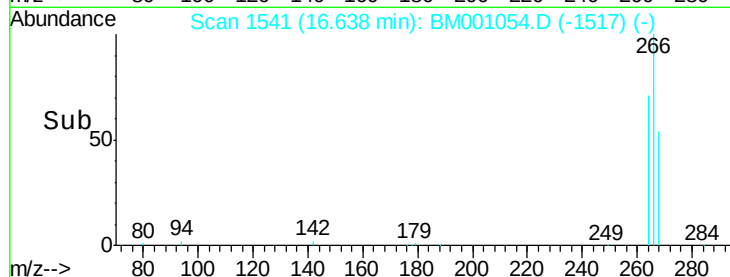
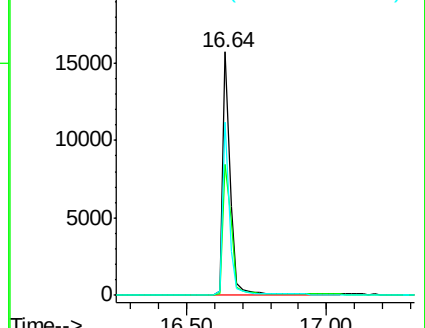
264 71.2 59.8 89.6



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: 5.44 ng

RT: 17.03 min Scan# 1560

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

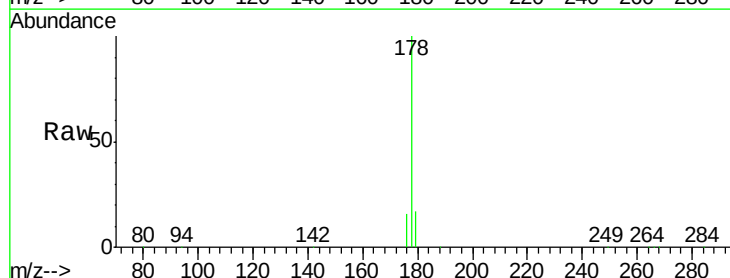
Tgt Ion:178 Resp: 160082

Ion Ratio Lower Upper

178 100

176 18.6 14.6 22.0

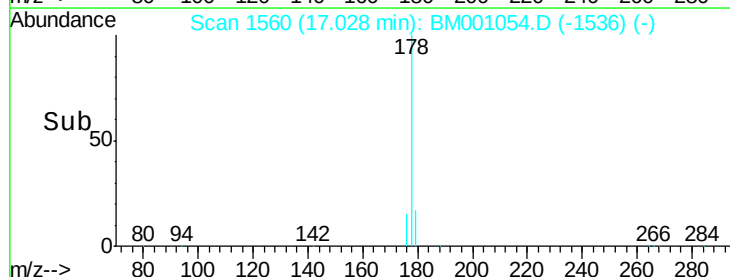
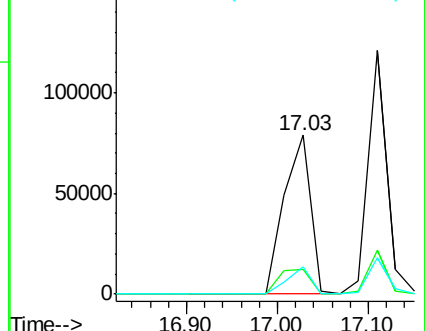
179 15.3 12.6 19.0

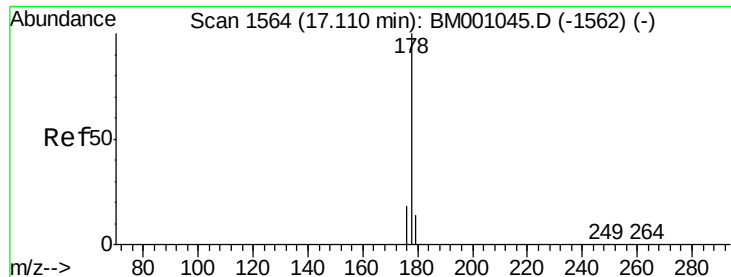


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Anthracene

Concen: 6.50 ng

RT: 17.11 min Scan# 1564

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

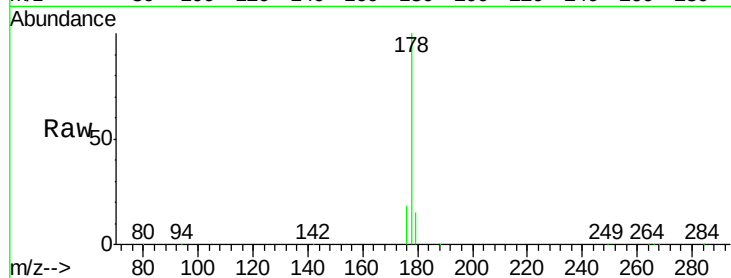
Tot Ion:178 Resp: 175839

Ion Ratio Lower Upper

178 100

176 17.9 14.3 21.5

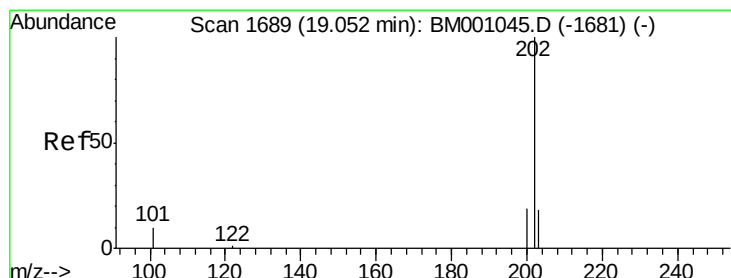
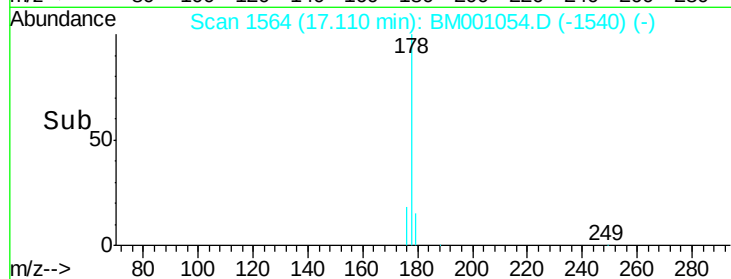
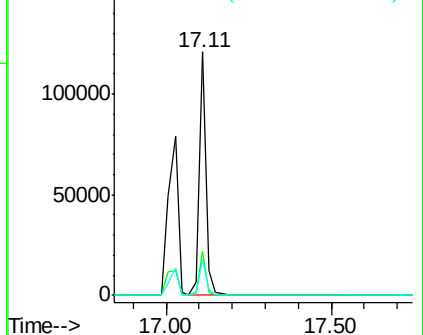
179 15.3 11.8 17.8



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: 6.07 ng

RT: 19.05 min Scan# 1689

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

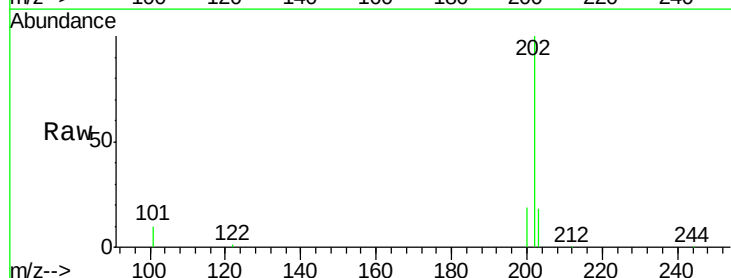
Tgt Ion:202 Resp: 186312

Ion Ratio Lower Upper

202 100

101 12.9 10.1 15.1

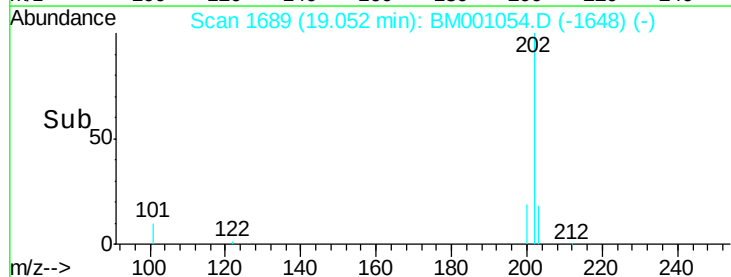
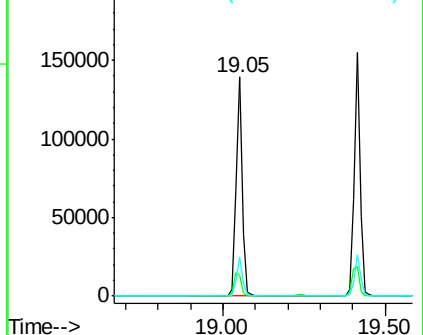
203 17.3 13.8 20.8

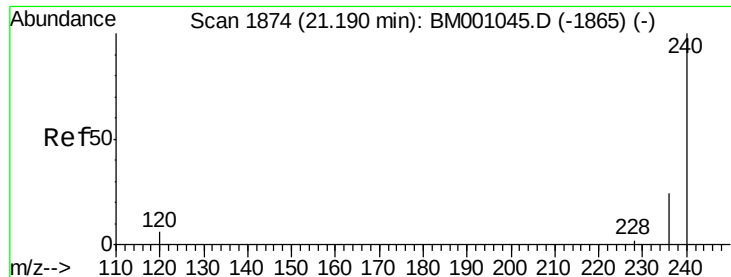


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

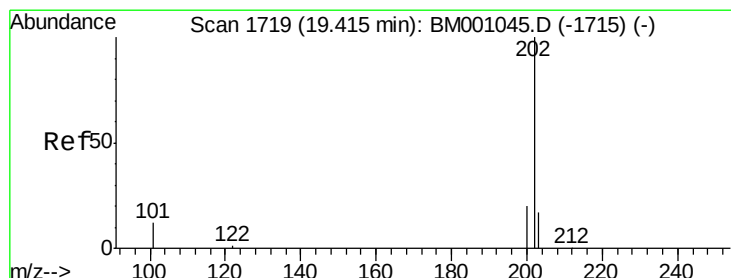
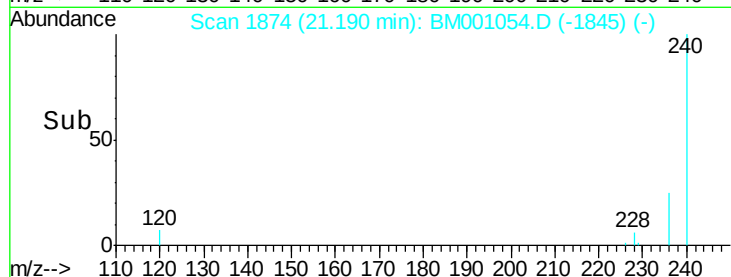
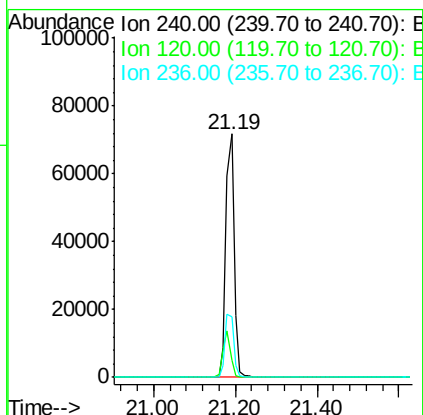
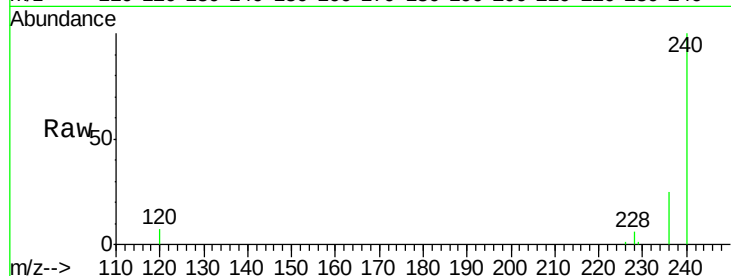




#19
Chrysene-d12
Concen: 5.00 ng
RT: 21.19 min Scan# 1874
Delta R.T. 0.00 min
Lab File: BM001054.D
Acq: 18 Apr 2015 10:25

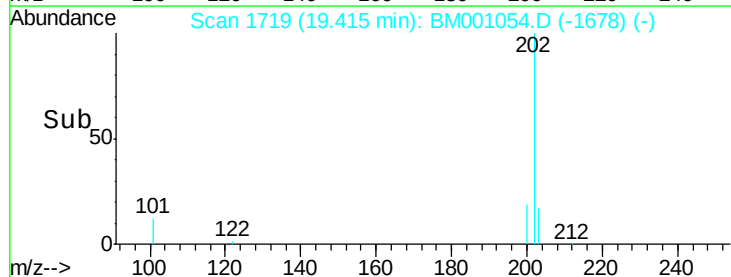
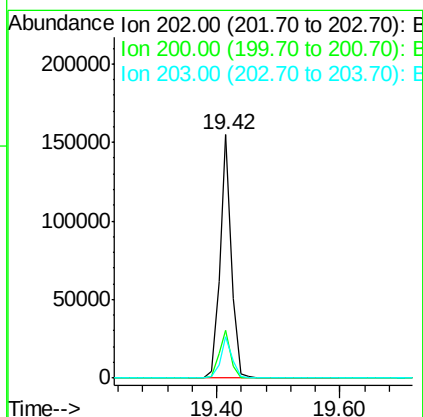
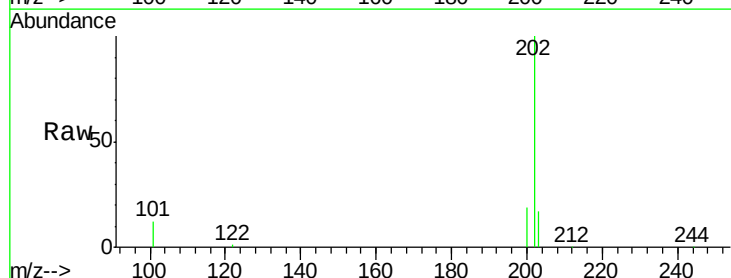
Instrument :
BNA_M
ClientSampleId :
PB82802BSD

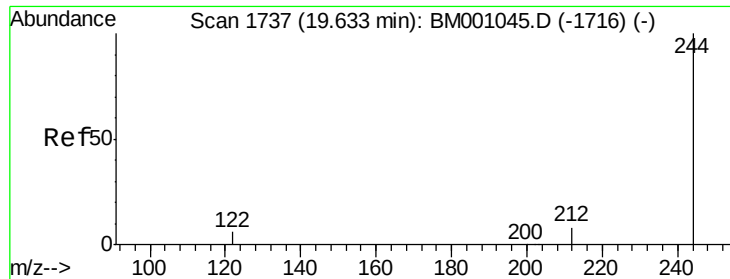
Tot Ion:240 Resp: 101360
Ion Ratio Lower Upper
240 100
120 6.8 4.6 6.8
236 24.7 19.1 28.7



#20
Pyrene
Concen: 5.96 ng
RT: 19.42 min Scan# 1719
Delta R.T. 0.00 min
Lab File: BM001054.D
Acq: 18 Apr 2015 10:25

Tgt Ion:202 Resp: 200349
Ion Ratio Lower Upper
202 100
200 20.1 16.3 24.5
203 17.8 13.8 20.6





#21

Terphenyl-d14

Concen: 5.96 ng

RT: 19.63 min Scan# 1737

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

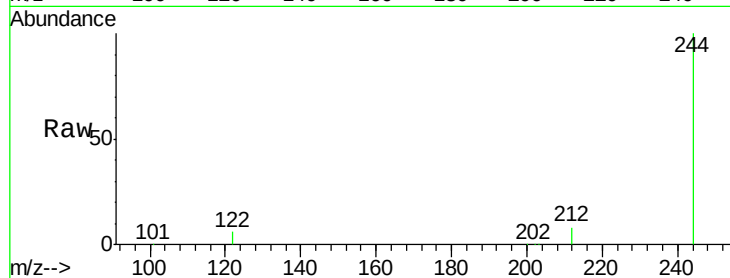
Tot Ion:244 Resp: 80028

Ion Ratio Lower Upper

244 100

212 7.9 7.1 10.7

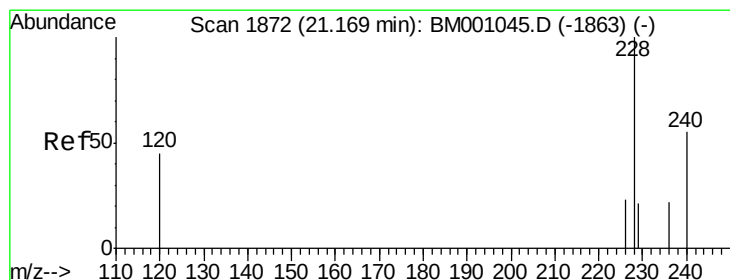
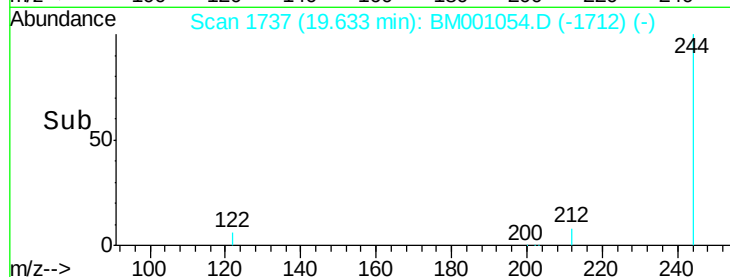
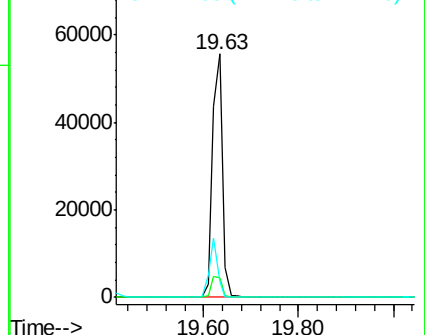
122 6.3 5.9 8.9



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: 6.17 ng

RT: 21.17 min Scan# 1872

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

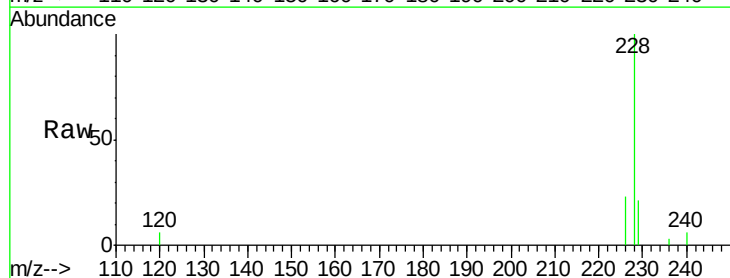
Tgt Ion:228 Resp: 181278

Ion Ratio Lower Upper

228 100

226 23.3 19.0 28.6

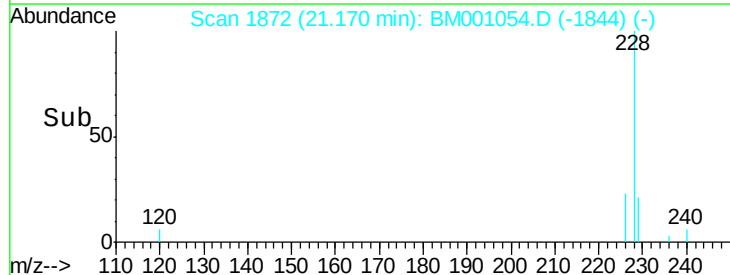
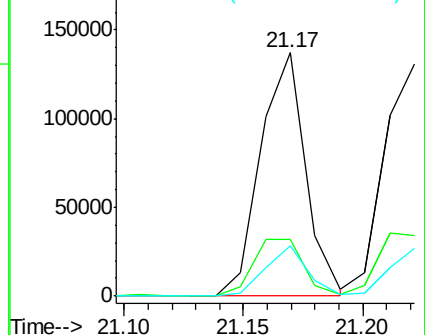
229 20.9 16.8 25.2

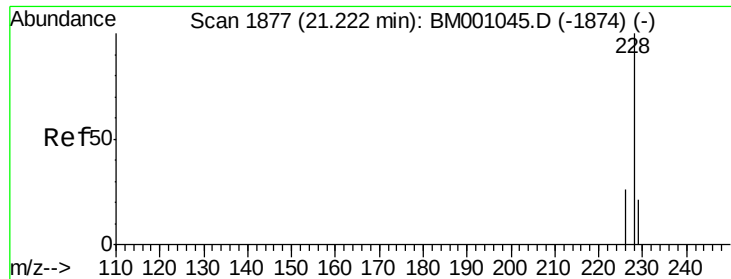


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Chrysene

Concen: 5.74 ng

RT: 21.22 min Scan# 1877

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

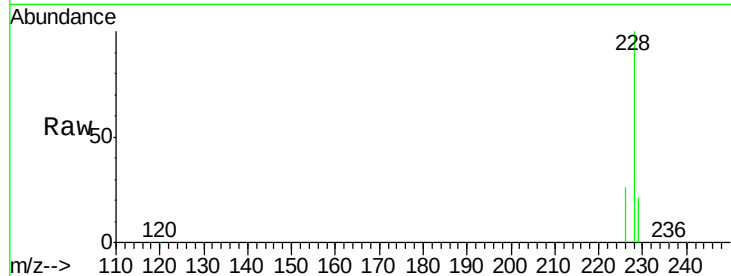
Tot Ion:228 Resp: 177607

Ion Ratio Lower Upper

228 100

226 26.0 20.6 31.0

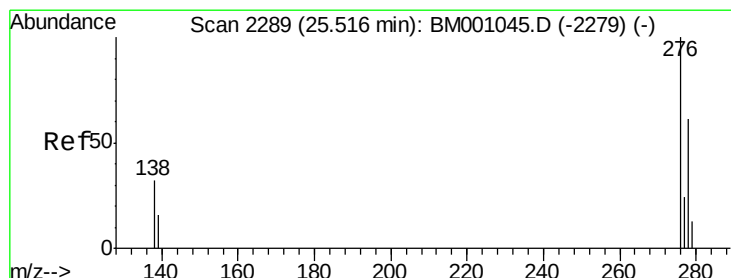
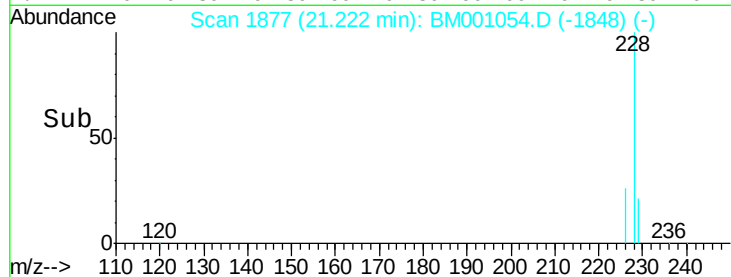
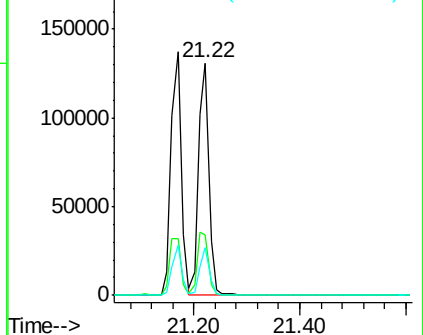
229 20.6 17.2 25.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#24

Indeno(1,2,3-cd)pyrene

Concen: 5.86 ng

RT: 25.52 min Scan# 2289

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

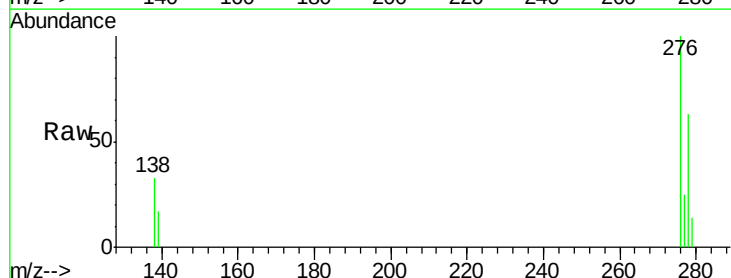
Tgt Ion:276 Resp: 185039

Ion Ratio Lower Upper

276 100

138 34.0 26.3 39.5

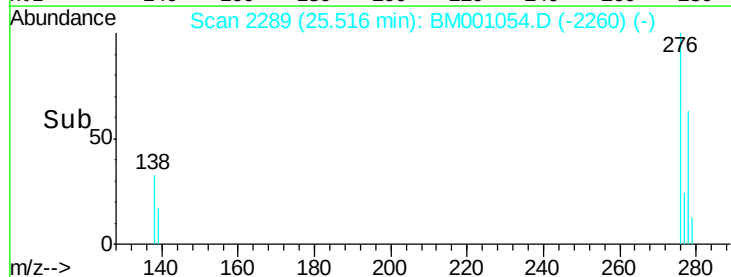
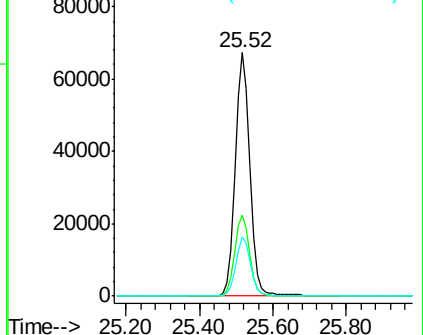
277 24.6 19.5 29.3

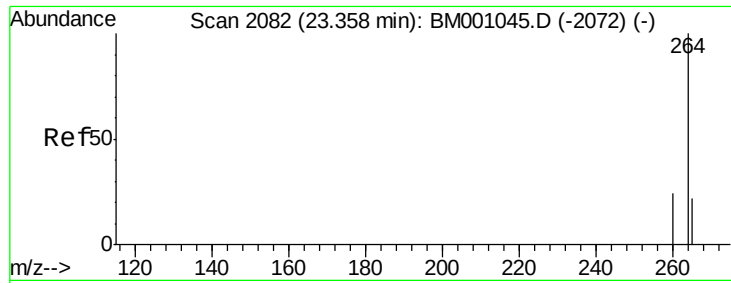


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

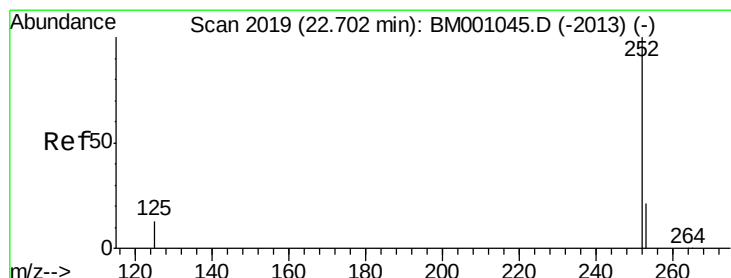
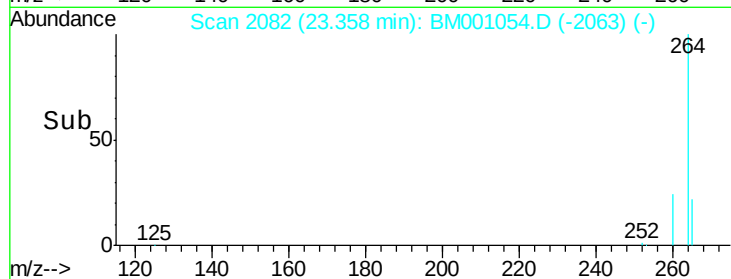
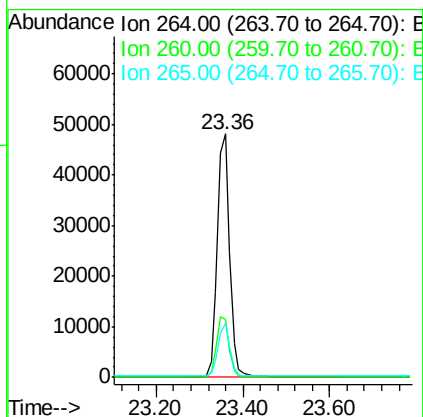
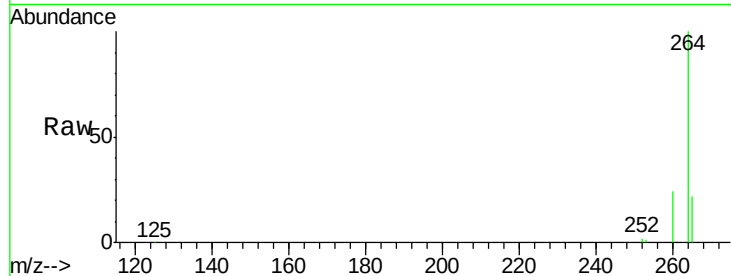




#25
Pervlene-d12
Concen: 5.00 ng
RT: 23.36 min Scan# 2082
Delta R.T. 0.00 min
Lab File: BM001054.D
Acq: 18 Apr 2015 10:25

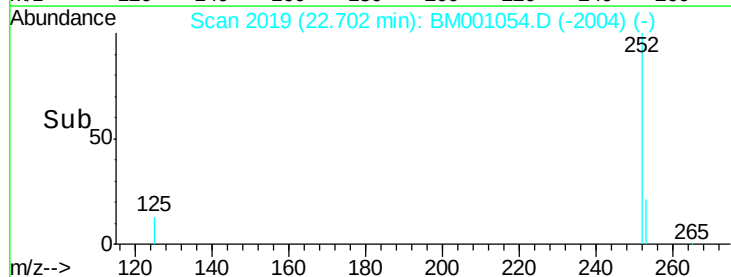
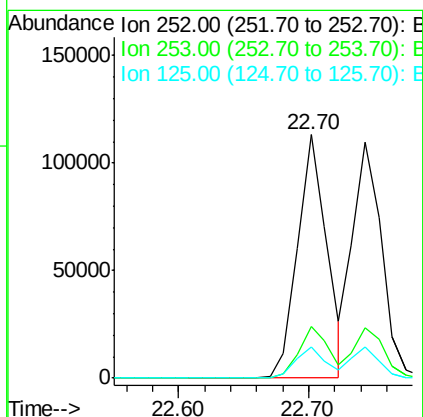
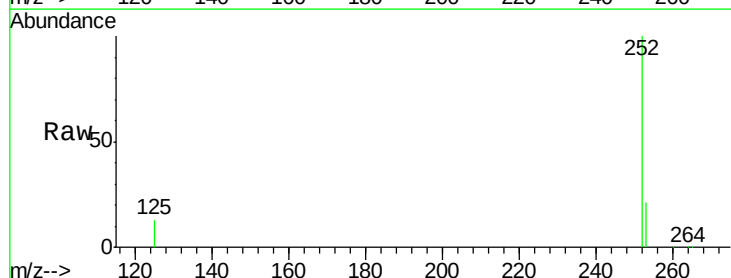
Instrument :
BNA_M
ClientSampleId :
PB82802BSD

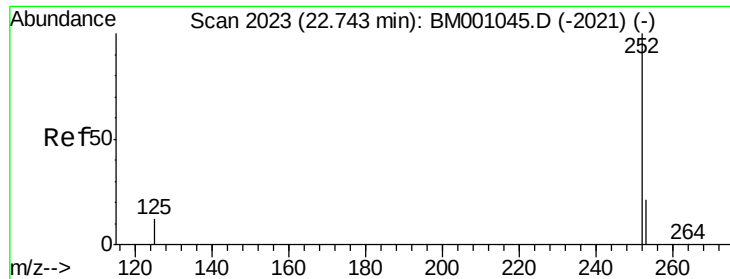
Tot Ion:264 Resp: 92911
Ion Ratio Lower Upper
264 100
260 23.8 19.0 28.6
265 22.2 17.9 26.9



#26
Benzo(b)fluoranthene
Concen: 5.92 ng
RT: 22.70 min Scan# 2019
Delta R.T. 0.00 min
Lab File: BM001054.D
Acq: 18 Apr 2015 10:25

Tgt Ion:252 Resp: 176916
Ion Ratio Lower Upper
252 100
253 21.0 18.2 27.2
125 13.0 10.9 16.3

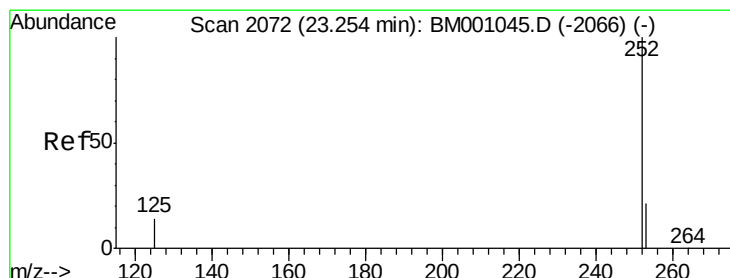
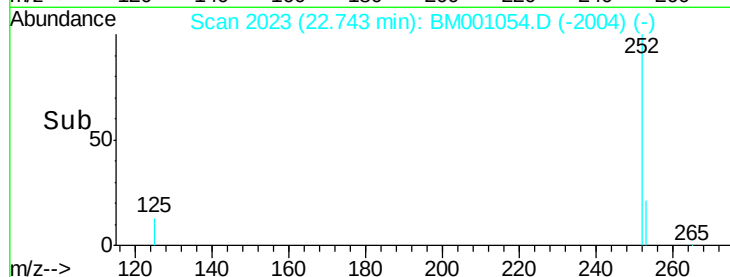
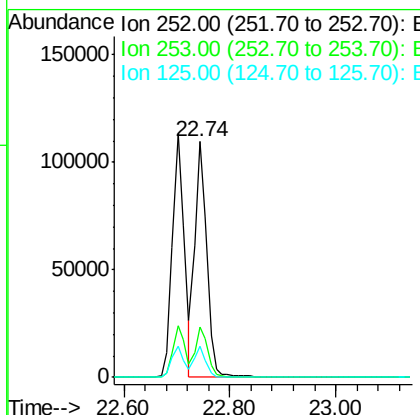
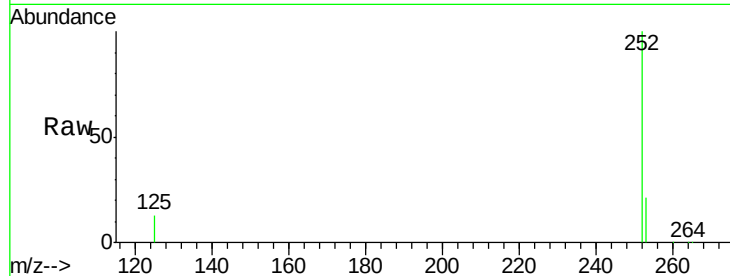




#27
Benzo(k)fluoranthene
Concen: 6.00 ng
RT: 22.74 min Scan# 2023
Delta R.T. 0.00 min
Lab File: BM001054.D
Acq: 18 Apr 2015 10:25

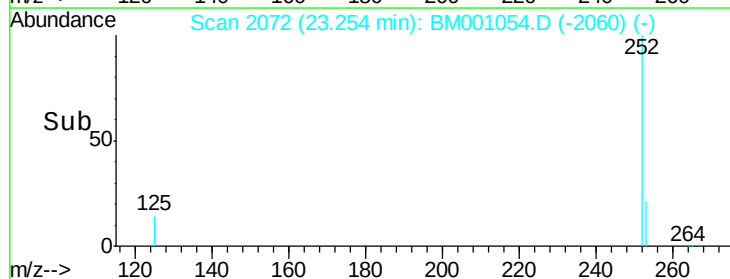
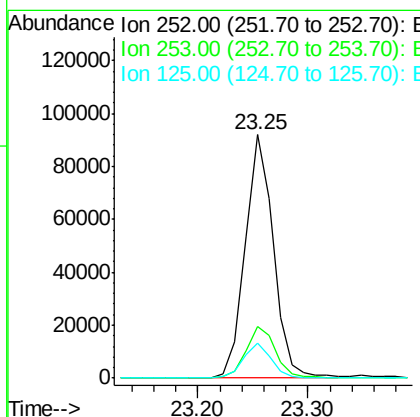
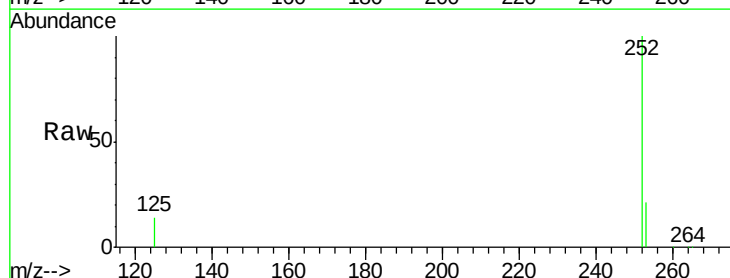
Instrument :
BNA_M
ClientSampleId :
PB82802BSD

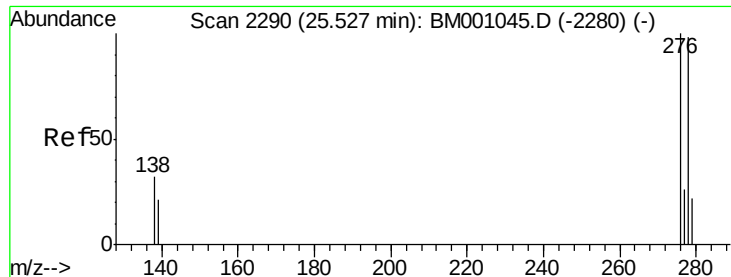
Tot Ion:252 Resp: 171756
Ion Ratio Lower Upper
252 100
253 21.2 18.3 27.5
125 13.1 10.6 15.8



#28
Benzo(a)pyrene
Concen: 6.38 ng
RT: 23.25 min Scan# 2072
Delta R.T. 0.00 min
Lab File: BM001054.D
Acq: 18 Apr 2015 10:25

Tgt Ion:252 Resp: 162743
Ion Ratio Lower Upper
252 100
253 21.2 18.6 27.8
125 14.5 11.9 17.9





#29

Dibenzo(a,h)anthracene

Concen: 5.97 ng

RT: 25.53 min Scan# 2290

Delta R.T. 0.00 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

Instrument :

BNA_M

ClientSampleId :

PB82802BSD

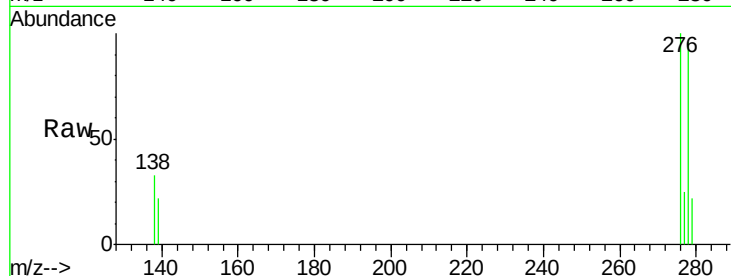
Tot Ion:278 Resp: 150841

Ion Ratio Lower Upper

278 100

139 23.0 18.2 27.2

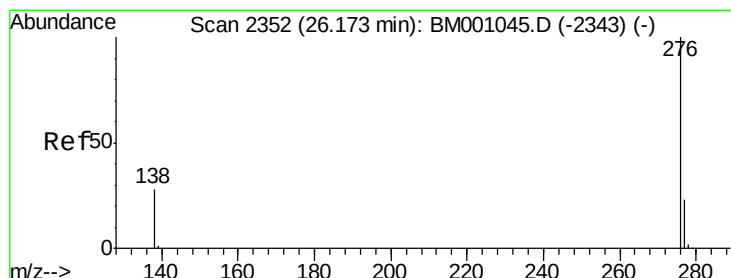
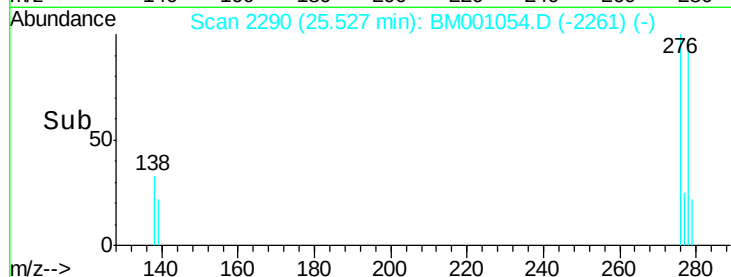
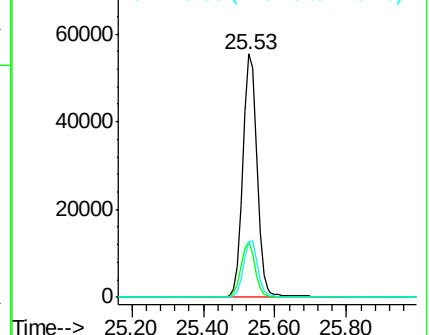
279 22.9 19.1 28.7



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#30

Benzo(g,h,i)perylene

Concen: 5.76 ng

RT: 26.18 min Scan# 2353

Delta R.T. 0.01 min

Lab File: BM001054.D

Acq: 18 Apr 2015 10:25

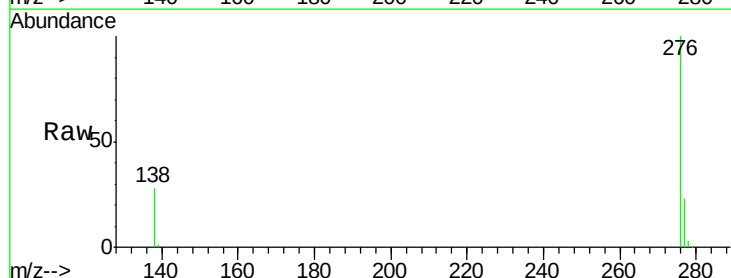
Tgt Ion:276 Resp: 157509

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 28.0 23.4 35.2



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

