

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM122915\  
 Data File : BM003829.D  
 Acq On : 28 Dec 2015 15:33  
 Operator : UM/SJ  
 Sample : PB87573BL  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87573BL

Quant Time: Dec 29 01:24:00 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM122415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 24 10:08:49 2015  
 Response via : Initial Calibration

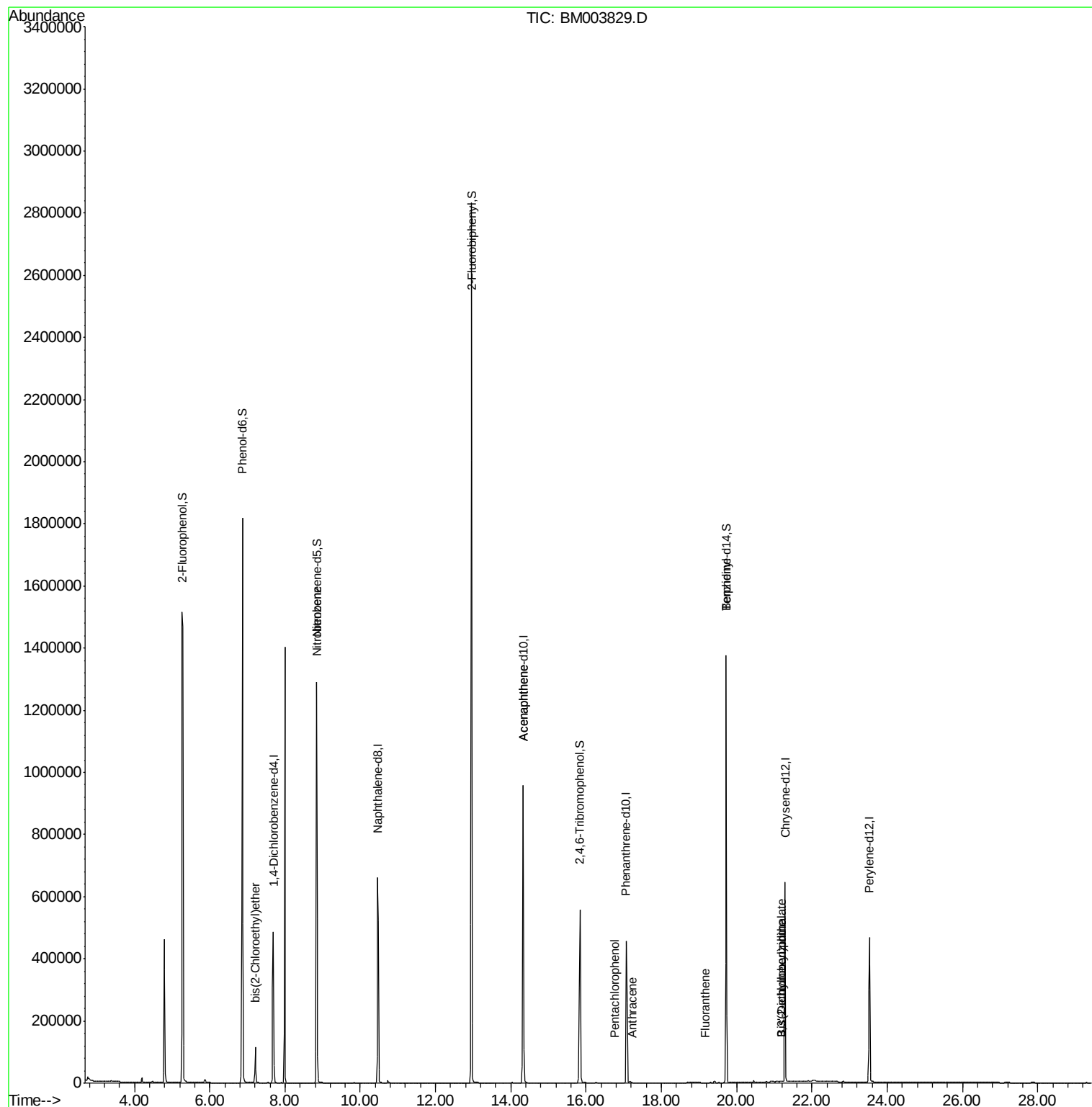
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.69  | 152  | 277837   | 5.00      | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.46 | 136  | 1098982  | 5.00      | ng    | -0.02    |
| 13) Acenaphthene-d10           | 14.33 | 164  | 556823   | 5.00      | ng    | 0.00     |
| 19) Phenanthrene-d10           | 17.06 | 188  | 859143   | 5.00      | ng    | 0.00     |
| 26) Chrysene-d12               | 21.29 | 240  | 706675   | 5.00      | ng    | 0.00     |
| 35) Perylene-d12               | 23.53 | 264  | 614201   | 5.00      | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 4) 2-Fluorophenol              | 5.28  | 112  | 1659715  | 25.28     | ng    | 0.02     |
| 5) Phenol-d6                   | 6.87  | 99   | 2002279  | 24.90     | ng    | 0.00     |
| 8) Nitrobenzene-d5             | 8.85  | 82   | 1172591  | 20.14     | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol       | 15.84 | 330  | 419777   | 23.67     | ng    | 0.00     |
| 15) 2-Fluorobiphenyl           | 12.96 | 172  | 2750786  | 16.15     | ng    | 0.00     |
| 29) Terphenyl-d14              | 19.72 | 244  | 1494694  | 13.49     | ng    | 0.00     |
| Target Compounds               |       |      |          |           |       | Qvalue   |
| 6) bis(2-Chloroethyl)ether     | 7.21  | 93   | 2437     | 0.03      | ng    | # 1      |
| 9) Nitrobenzene                | 8.84  | 77   | 3632     | 0.05      | ng    | # 34     |
| 17) Acenaphthene               | 14.33 | 154  | 2589     | 0.04      | ng    | # 7      |
| 18) Fluorene                   | 15.39 | 166  | 623      | Below Cal | #     | 90       |
| 21) Hexachlorobenzene          | 16.40 | 284  | 14       | Below Cal | #     | 48       |
| 22) Pentachlorophenol          | 16.76 | 266  | 25       | 0.38      | ng    | # 63     |
| 23) Phenanthrene               | 17.06 | 178  | 586      | Below Cal | #     | 60       |
| 24) Anthracene                 | 17.22 | 178  | 222      | 0.06      | ng    | # 81     |
| 25) Fluoranthene               | 19.16 | 202  | 199      | 0.10      | ng    | # 53     |
| 27) Benidine                   | 19.72 | 184  | 39470    | 0.94      | ng    | # 90     |
| 28) Pyrene                     | 19.52 | 202  | 290      | Below Cal | #     | 70       |
| 31) 3,3'-Dichlorobenzidine     | 21.21 | 252  | 350      | 0.25      | ng    | # 56     |
| 32) Chrysene                   | 21.29 | 228  | 2785     | Below Cal | #     | 48       |
| 33) Bis(2-ethylhexyl)phthalate | 21.19 | 149  | 805      | 0.20      | ng    | # 87     |

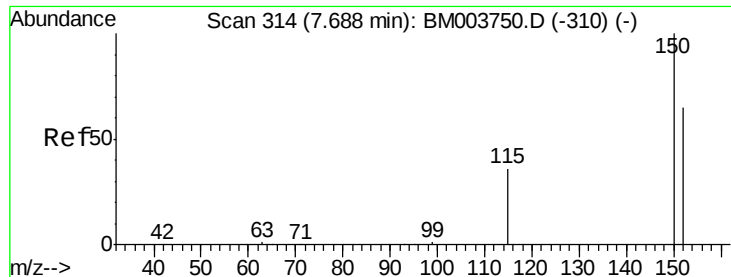
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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PB87573BL

Quant Time: Dec 29 01:24:00 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM122415.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 24 10:08:49 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.69 min Scan# 314

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

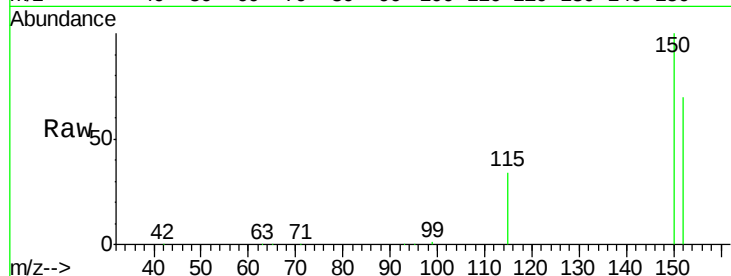
Tgt Ion:152 Resp: 277837

Ion Ratio Lower Upper

152 100

150 143.5 122.9 184.3

115 48.6 44.4 66.6



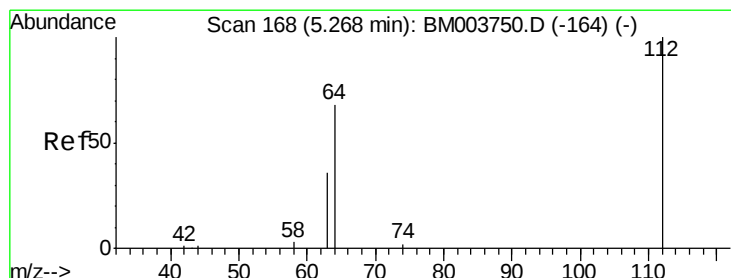
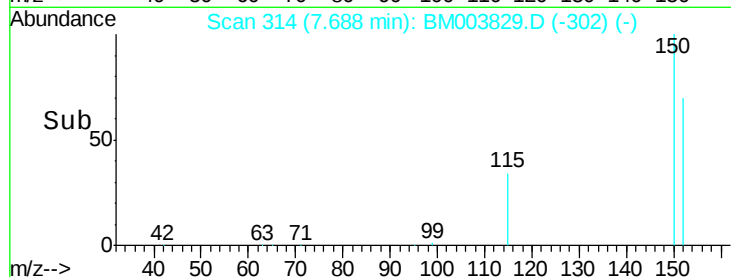
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E

7.69

Time-->



#4

2-Fluorophenol

Concen: 25.28 ng

RT: 5.28 min Scan# 169

Delta R.T. 0.02 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

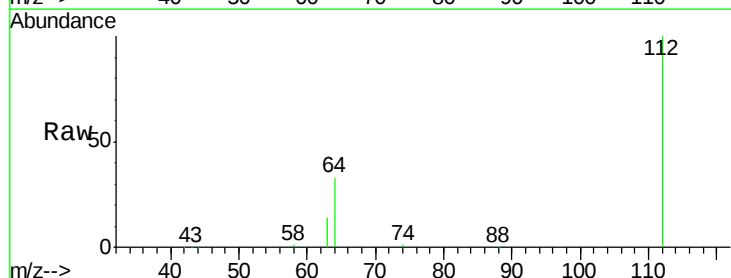
Tgt Ion:112 Resp: 1659715

Ion Ratio Lower Upper

112 100

64 51.3 41.8 62.8

63 26.9 22.1 33.1



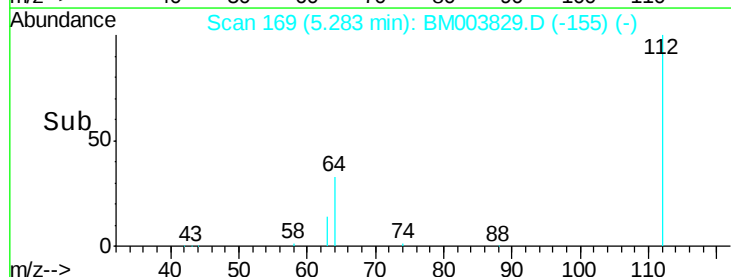
Abundance Ion 112.00 (111.70 to 112.70): E

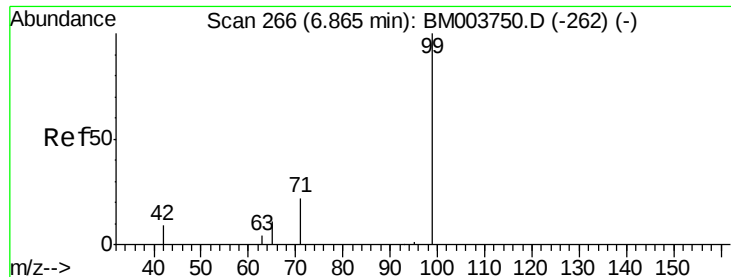
Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0

5.28

Time-->





#5

Phenol-d6

Concen: 24.90 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

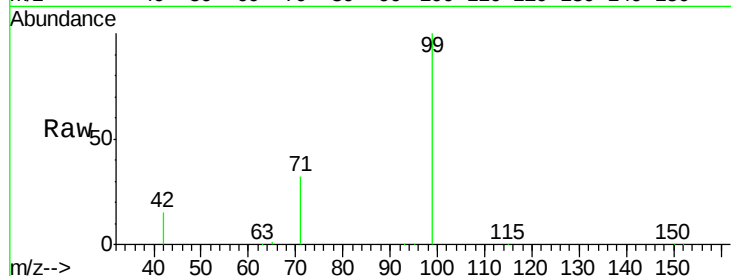
Tgt Ion: 99 Resp: 2002279

Ion Ratio Lower Upper

99 100

42 18.6 16.2 24.2

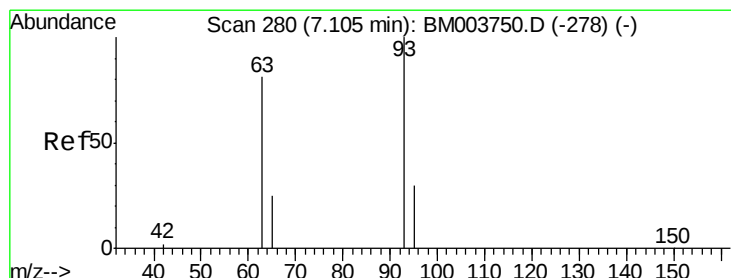
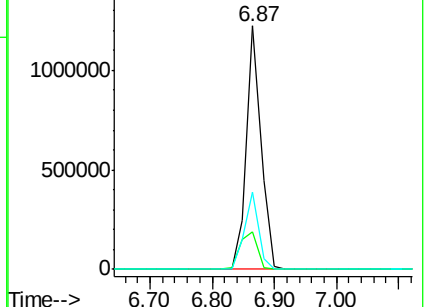
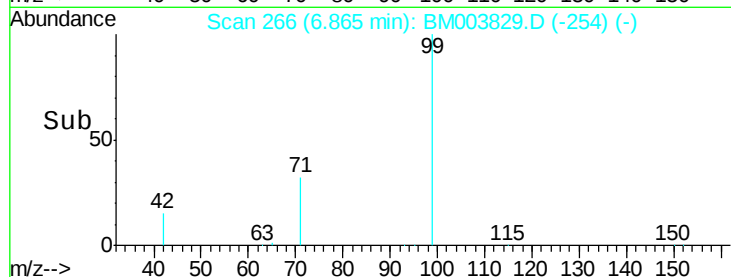
71 31.0 24.4 36.6



Abundance Ion 99.00 (98.70 to 99.70): BM003829.D (-254) (-)

Ion 42.00 (41.70 to 42.70): BM003829.D (-254) (-)

Ion 71.00 (70.70 to 71.70): BM003829.D (-254) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.03 ng

RT: 7.21 min Scan# 286

Delta R.T. 0.10 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

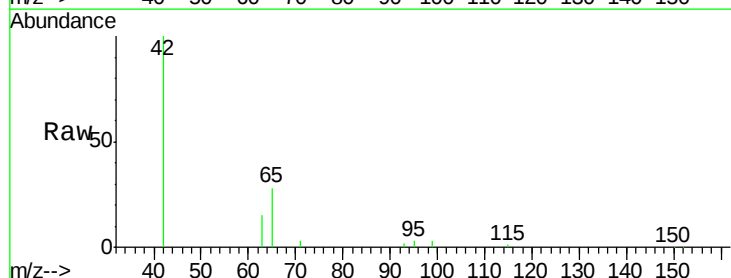
Tgt Ion: 93 Resp: 2437

Ion Ratio Lower Upper

93 100

63 746.0 58.3 87.5#

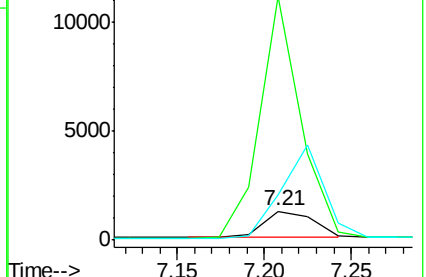
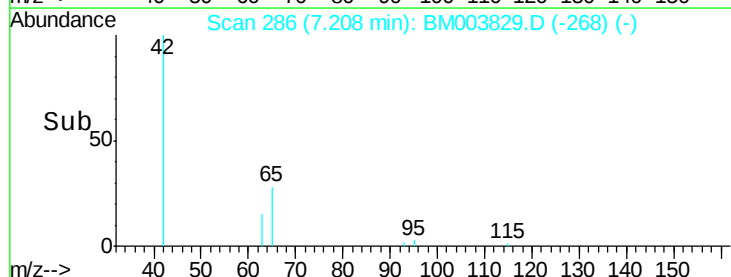
95 299.2 25.8 38.8#

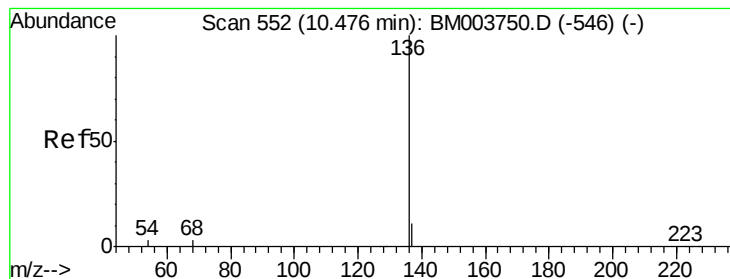


Abundance Ion 93.00 (92.70 to 93.70): BM003829.D (-268) (-)

Ion 63.00 (62.70 to 63.70): BM003829.D (-268) (-)

Ion 95.00 (94.70 to 95.70): BM003829.D (-268) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.46 min Scan# 551

Delta R.T. -0.02 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

Tgt Ion:136 Resp: 1098982

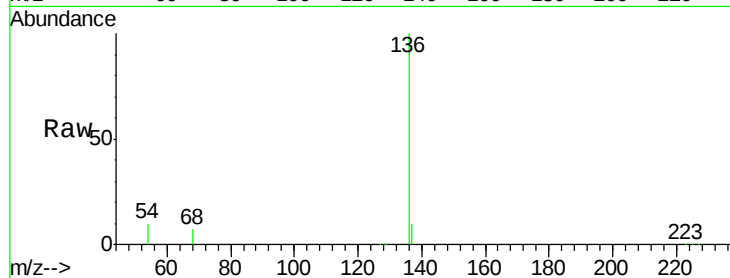
Ion Ratio Lower Upper

136 100

137 10.1 9.2 13.8

54 9.7 2.8 4.2#

68 7.1 2.5 3.7#

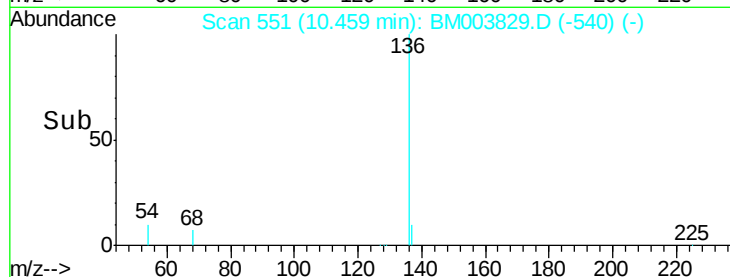


Abundance Ion 136.00 (135.70 to 136.70): E

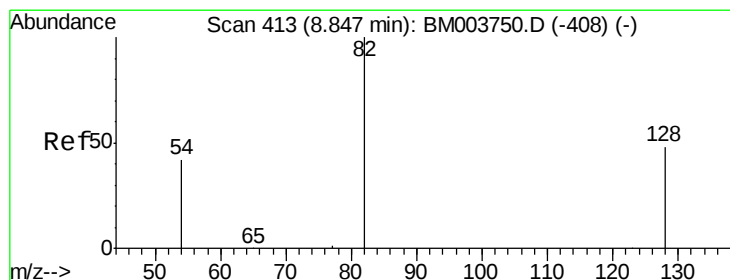
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



Time-->



#8

Nitrobenzene-d5

Concen: 20.14 ng

RT: 8.85 min Scan# 413

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

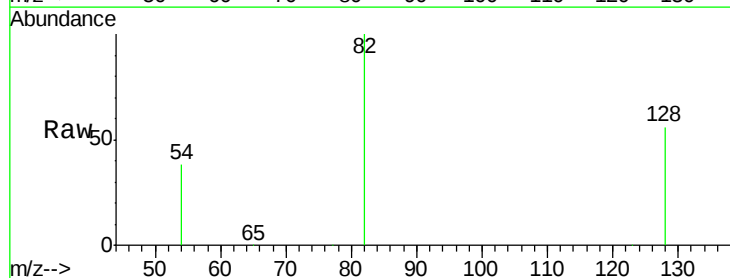
Tgt Ion: 82 Resp: 1172591

Ion Ratio Lower Upper

82 100

128 55.8 39.1 58.7

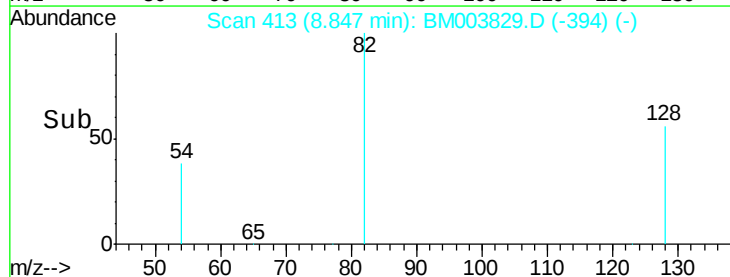
54 37.9 34.8 52.2



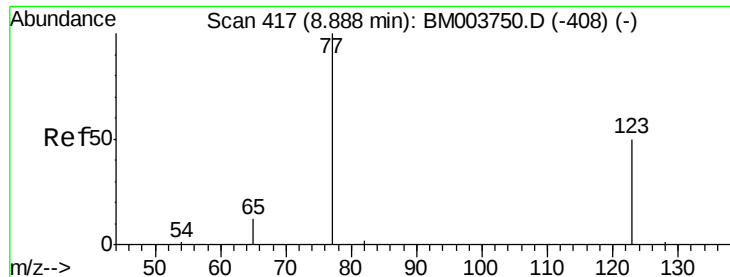
Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM



Time-->



#9

Nitrobenzene

Concen: 0.05 ng

RT: 8.84 min Scan# 412

Delta R.T. -0.05 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

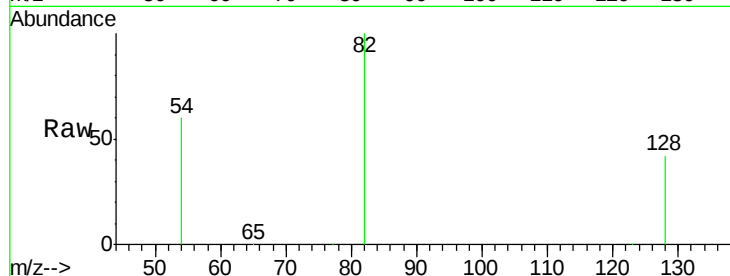
Tgt Ion: 77 Resp: 3632

Ion Ratio Lower Upper

77 100

123 1.2 38.6 57.8#

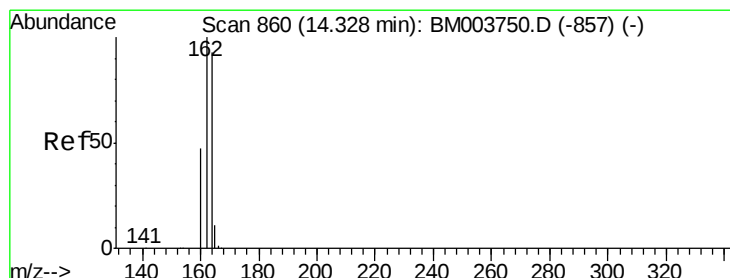
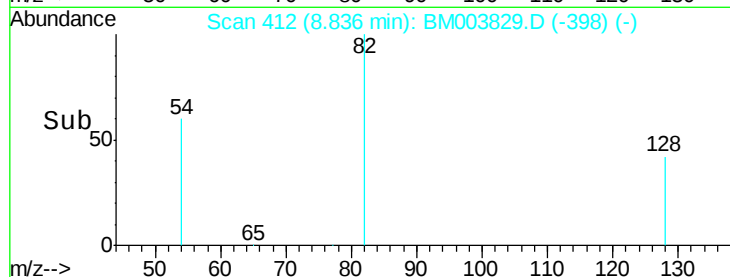
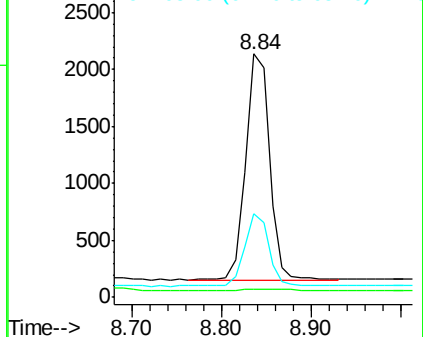
65 33.3 9.9 14.9#



Abundance Ion 77.00 (76.70 to 77.70): BM003750.D (-408) (-)

Ion 123.00 (122.70 to 123.70): BM003750.D (-408) (-)

Ion 65.00 (64.70 to 65.70): BM003750.D (-408) (-)



#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

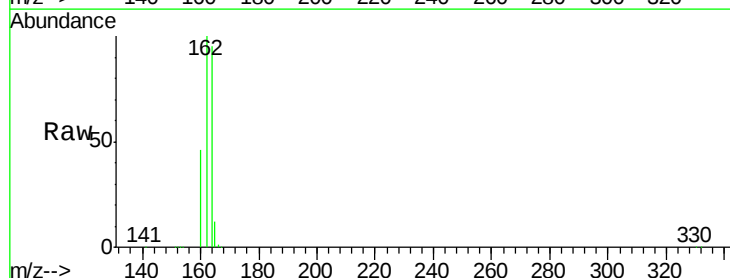
Tgt Ion: 164 Resp: 556823

Ion Ratio Lower Upper

164 100

162 105.2 86.0 129.0

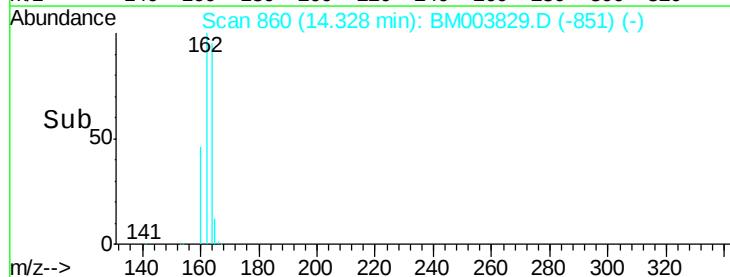
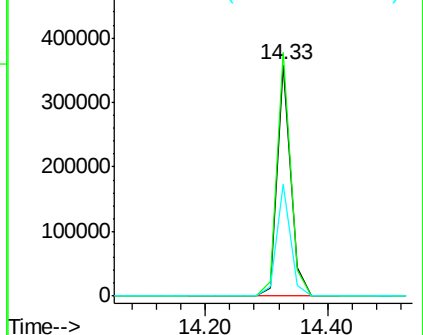
160 48.4 40.3 60.5

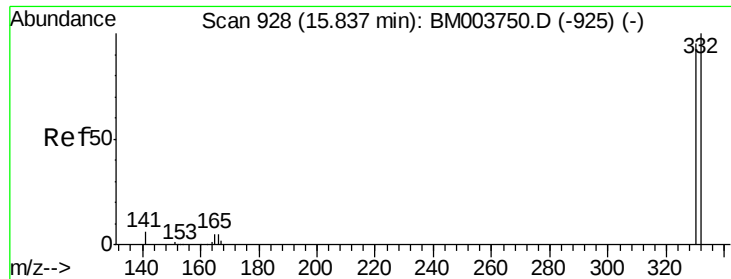


Abundance Ion 164.00 (163.70 to 164.70): BM003750.D (-857) (-)

Ion 162.00 (161.70 to 162.70): BM003750.D (-857) (-)

Ion 160.00 (159.70 to 160.70): BM003750.D (-857) (-)

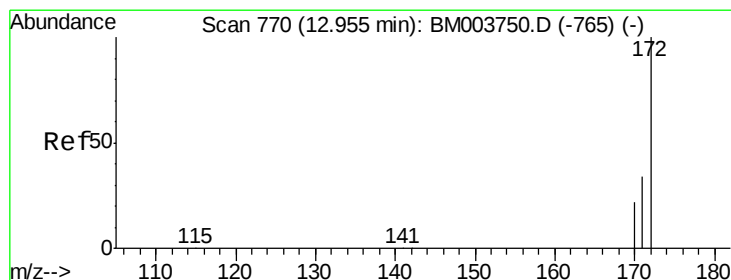
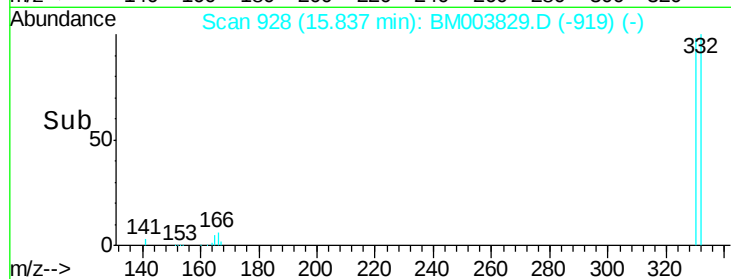
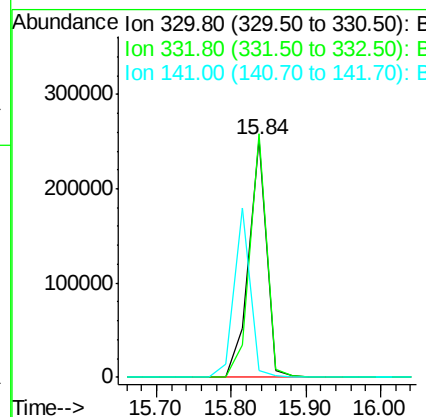
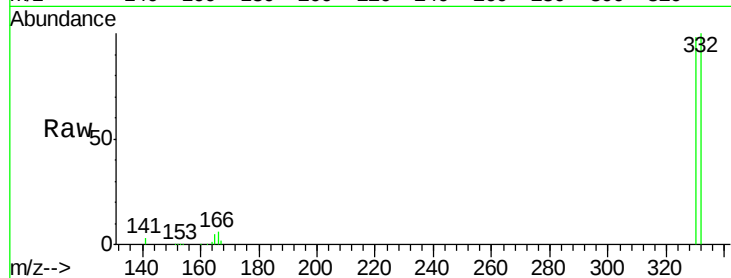




#14  
 2,4,6-Tribromophenol  
 Concen: 23.67 ng  
 RT: 15.84 min Scan# 928  
 Delta R.T. 0.00 min  
 Lab File: BM003829.D  
 Acq: 28 Dec 2015 15:33

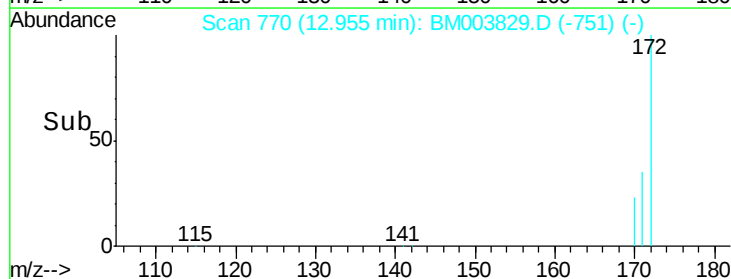
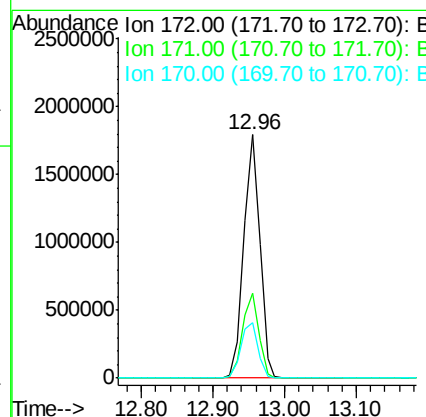
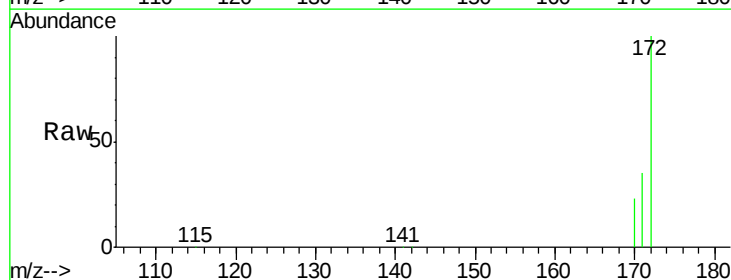
Instrument :  
 BNA\_M  
 ClientSampleId :  
 PB87573BL

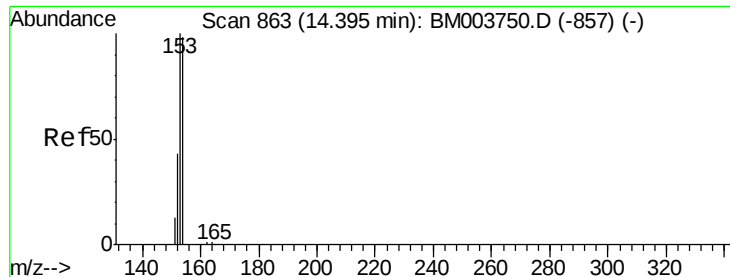
Tgt Ion:330 Resp: 419777  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 79.0 118.4  
 141 0.0 0.0 0.0



#15  
 2-Fluorobiphenyl  
 Concen: 16.15 ng  
 RT: 12.96 min Scan# 770  
 Delta R.T. 0.00 min  
 Lab File: BM003829.D  
 Acq: 28 Dec 2015 15:33

Tgt Ion:172 Resp: 2750786  
 Ion Ratio Lower Upper  
 172 100  
 171 34.6 27.0 40.6  
 170 22.8 17.9 26.9

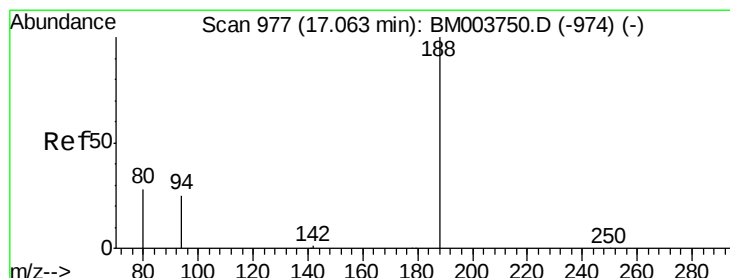
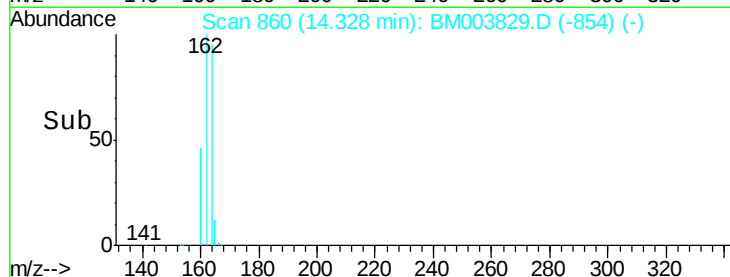
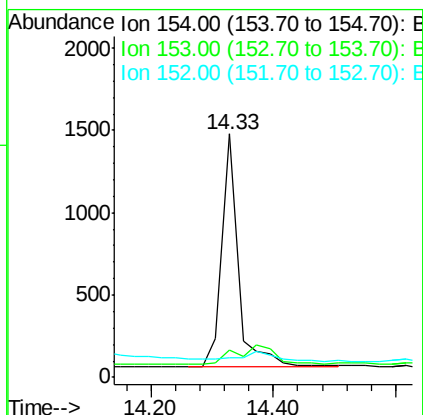
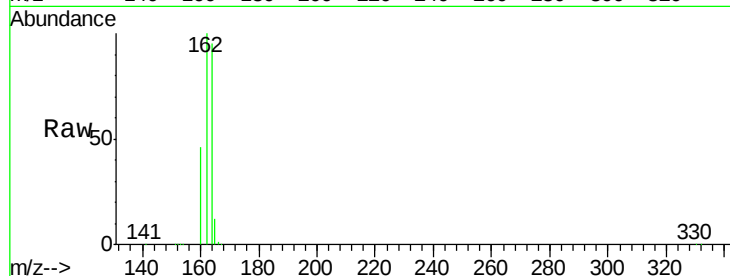




#17  
Acenaphthene  
Concen: 0.04 ng  
RT: 14.33 min Scan# 860  
Delta R.T. -0.07 min  
Lab File: BM003829.D  
Acq: 28 Dec 2015 15:33

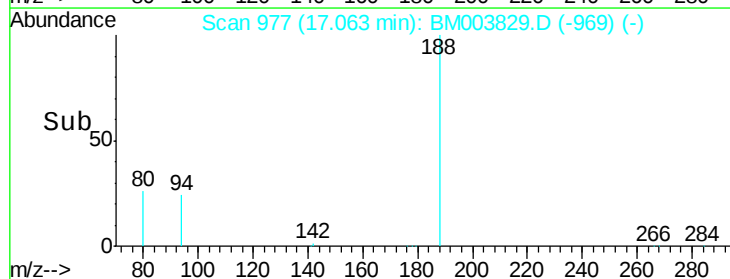
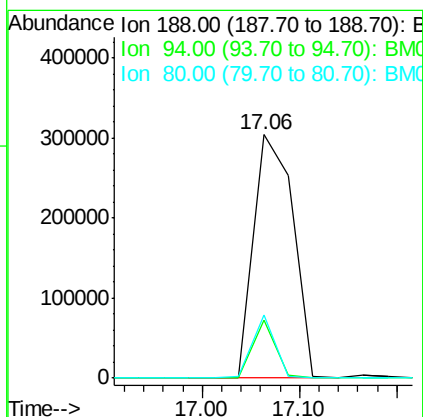
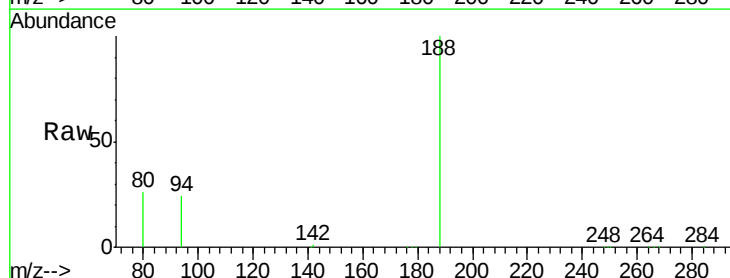
Instrument :  
BNA\_M  
ClientSampleId :  
PB87573BL

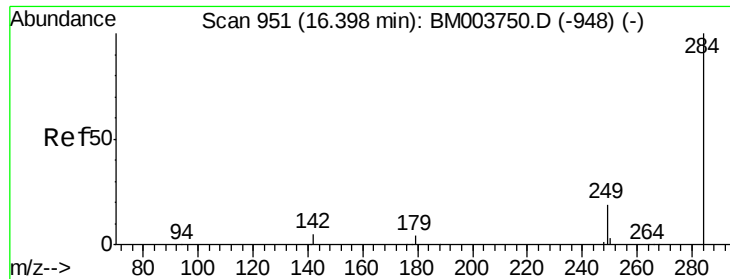
Tgt Ion:154 Resp: 2589  
Ion Ratio Lower Upper  
154 100  
153 0.0 85.4 128.2#  
152 0.0 40.6 60.8#



#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.06 min Scan# 977  
Delta R.T. 0.00 min  
Lab File: BM003829.D  
Acq: 28 Dec 2015 15:33

Tgt Ion:188 Resp: 859143  
Ion Ratio Lower Upper  
188 100  
94 23.8 20.3 30.5  
80 26.0 22.2 33.4

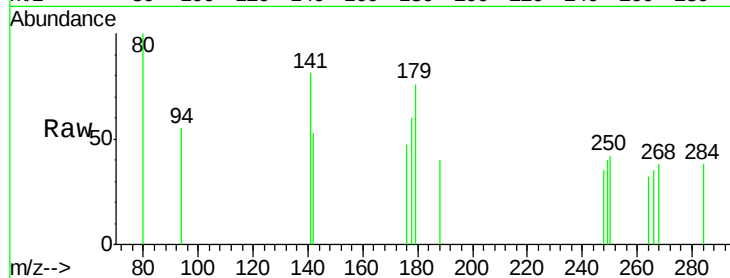




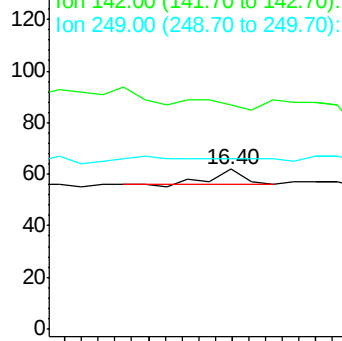
#21  
Hexachlorobenzene  
Concen: Below Cal  
RT: 16.40 min Scan# 951  
Delta R.T. 0.00 min  
Lab File: BM003829.D  
Acq: 28 Dec 2015 15:33

Instrument :  
BNA\_M  
ClientSampleId :  
PB87573BL

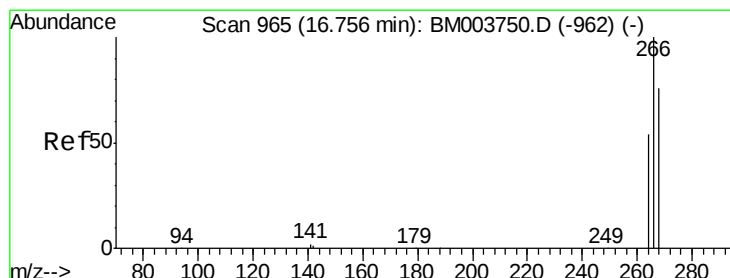
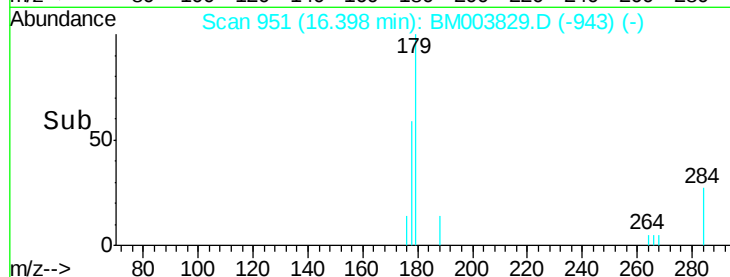
Tgt Ion: 284 Resp: 14  
Ion Ratio Lower Upper  
284 100  
142 0.0 0.0 0.0  
249 0.0 21.5 32.3#



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

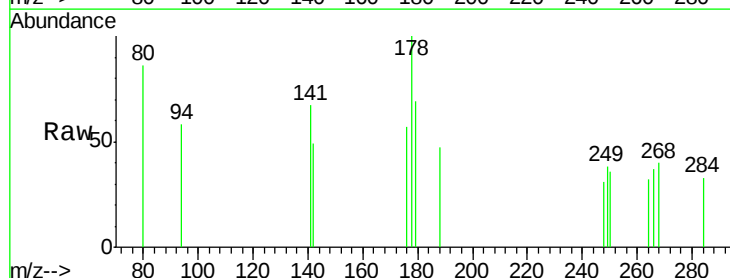


Time--> 16.20 16.30 16.40 16.50

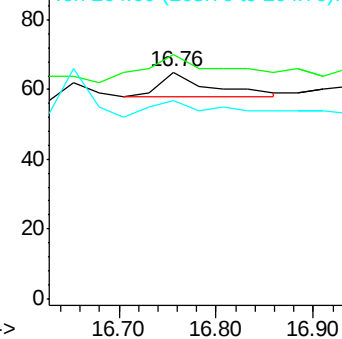


#22  
Pentachlorophenol  
Concen: 0.38 ng  
RT: 16.76 min Scan# 965  
Delta R.T. 0.00 min  
Lab File: BM003829.D  
Acq: 28 Dec 2015 15:33

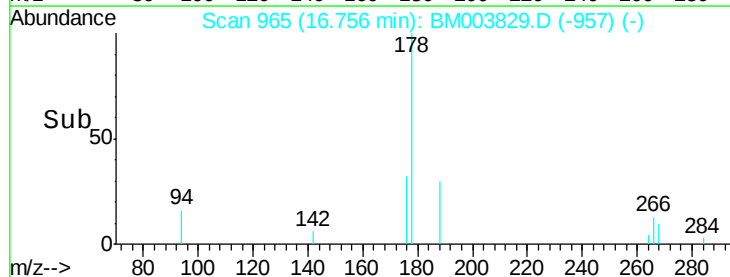
Tgt Ion: 266 Resp: 25  
Ion Ratio Lower Upper  
266 100  
268 107.7 62.7 94.1#  
264 87.7 45.7 68.5#

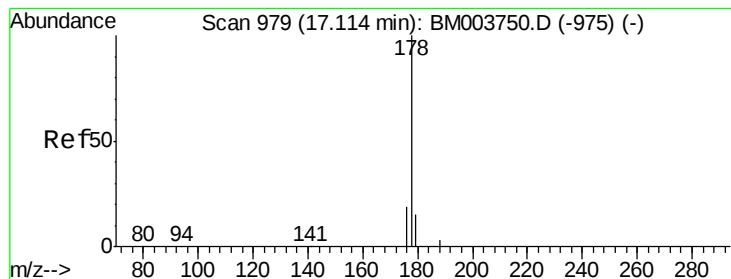


Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E



Time--> 16.70 16.80 16.90





#23

Phenanthrene

Concen: Below Cal

RT: 17.06 min Scan# 977

Delta R.T. -0.05 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

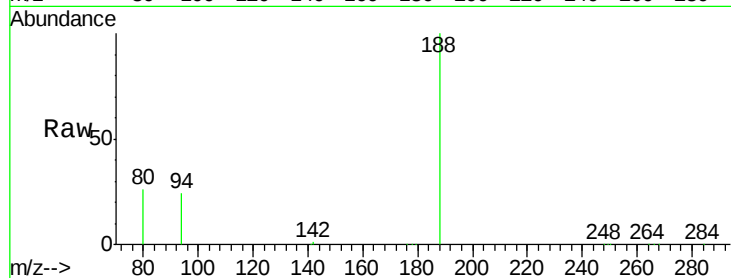
Tgt Ion:178 Resp: 586

Ion Ratio Lower Upper

178 100

176 0.0 15.4 23.0#

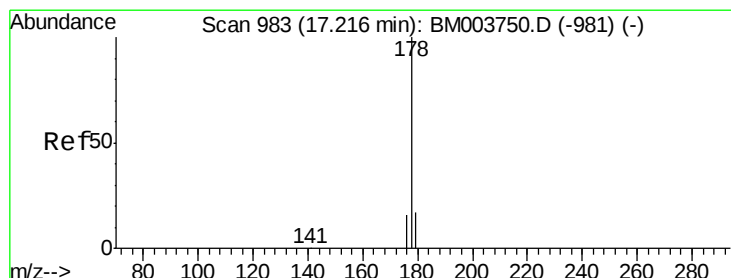
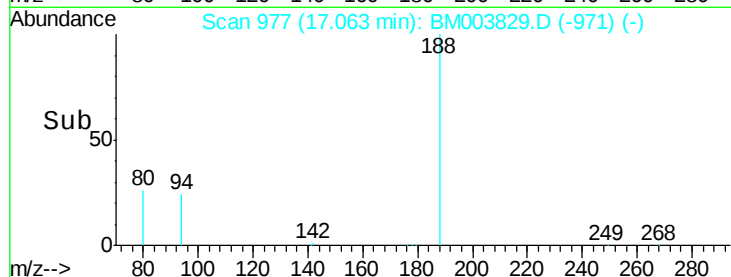
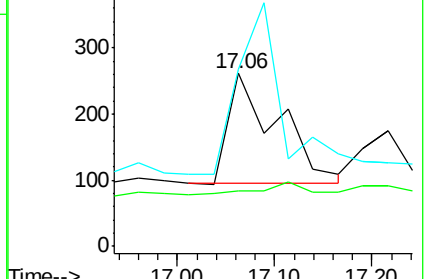
179 0.0 12.2 18.4#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#24

Anthracene

Concen: 0.06 ng

RT: 17.22 min Scan# 983

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

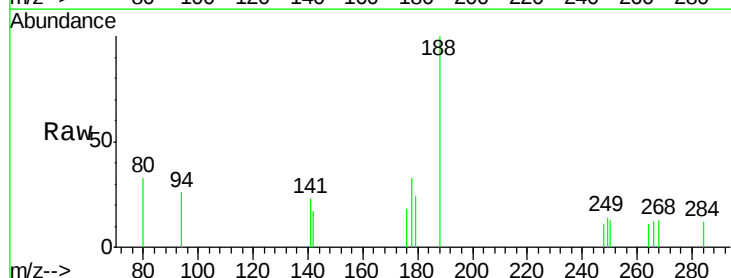
Tgt Ion:178 Resp: 222

Ion Ratio Lower Upper

178 100

176 19.8 14.6 21.8

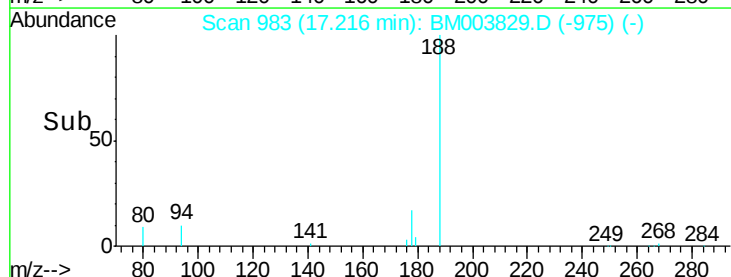
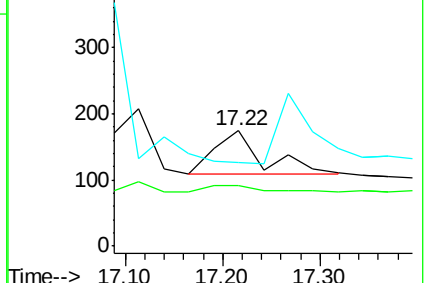
179 0.0 12.6 19.0#

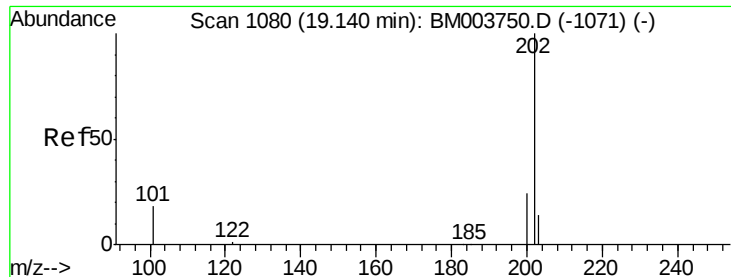


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

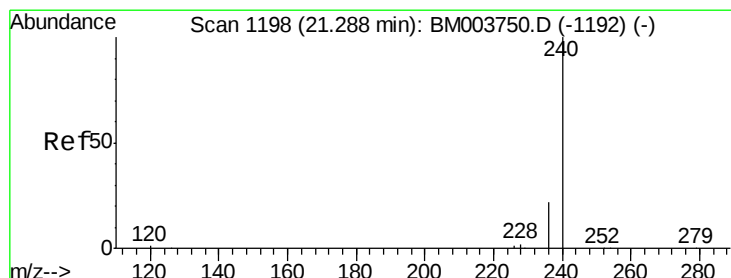
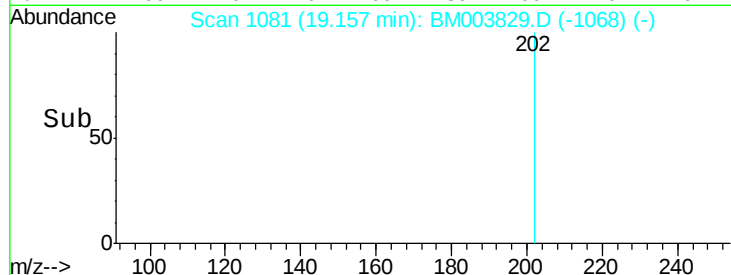
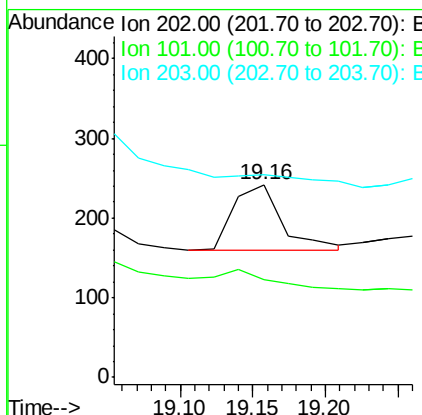
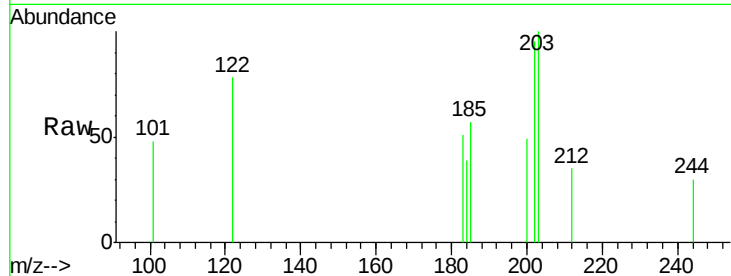




#25  
Fluoranthene  
Concen: 0.10 ng  
RT: 19.16 min Scan# 1081  
Delta R.T. 0.02 min  
Lab File: BM003829.D  
Acq: 28 Dec 2015 15:33

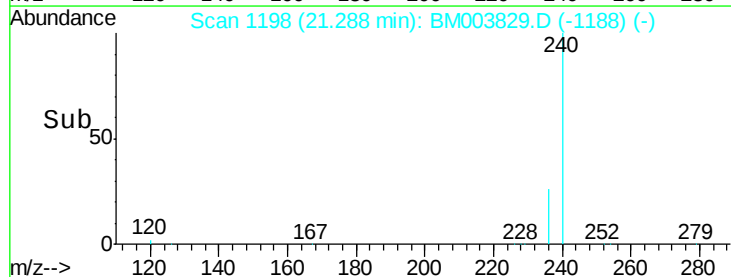
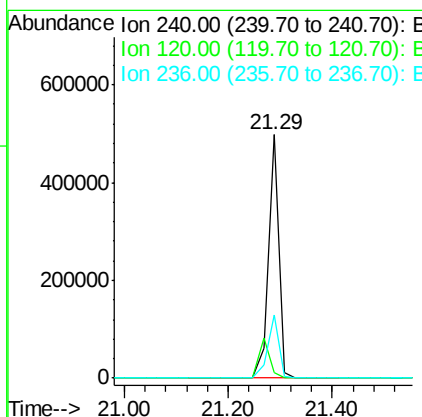
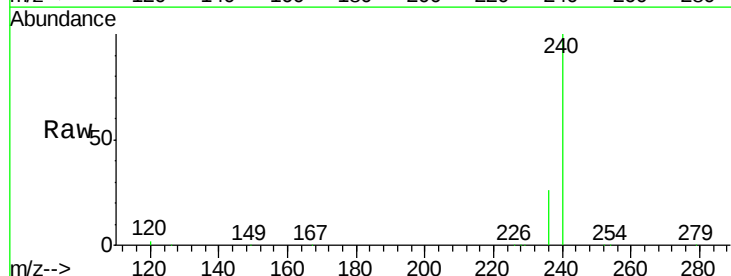
Instrument :  
BNA\_M  
ClientSampleId :  
PB87573BL

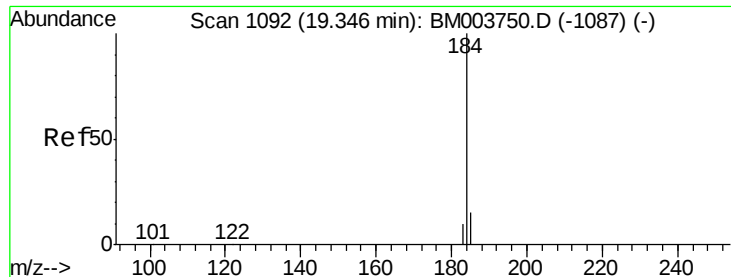
Tgt Ion: 202 Resp: 199  
Ion Ratio Lower Upper  
202 100  
101 34.7 9.7 14.5#  
203 0.0 13.8 20.8#



#26  
Chrysene-d12  
Concen: 5.00 ng  
RT: 21.29 min Scan# 1198  
Delta R.T. 0.00 min  
Lab File: BM003829.D  
Acq: 28 Dec 2015 15:33

Tgt Ion: 240 Resp: 706675  
Ion Ratio Lower Upper  
240 100  
120 2.4 0.9 1.3#  
236 26.0 17.3 25.9#





#27

Benzidine

Concen: 0.94 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.38 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

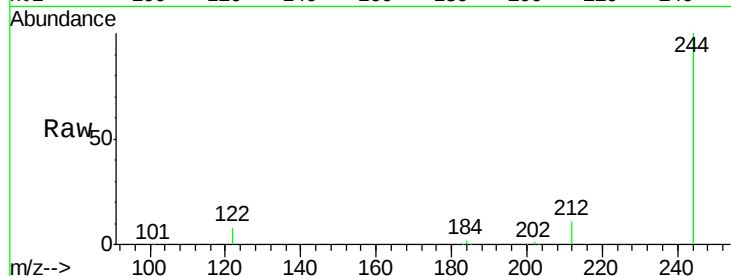
Tgt Ion:184 Resp: 39470

Ion Ratio Lower Upper

184 100

185 21.1 13.2 19.8#

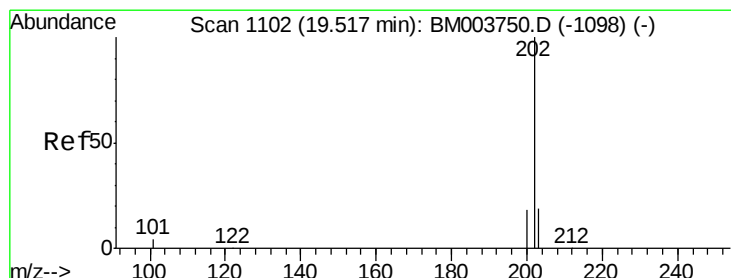
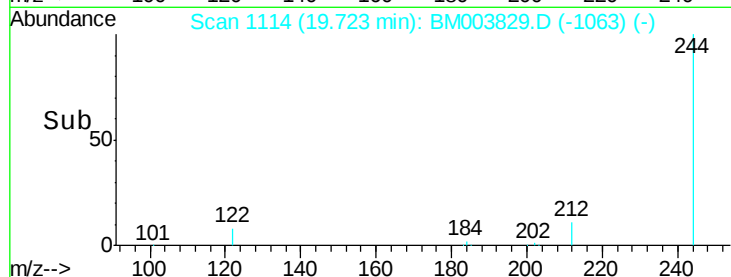
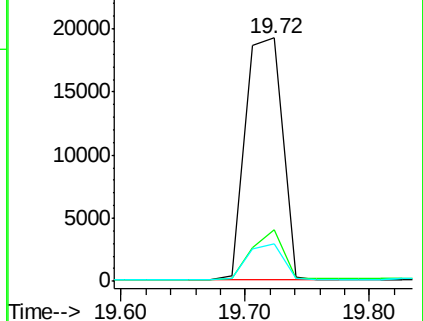
183 15.2 9.0 13.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#28

Pyrene

Concen: Below Cal

RT: 19.52 min Scan# 1102

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

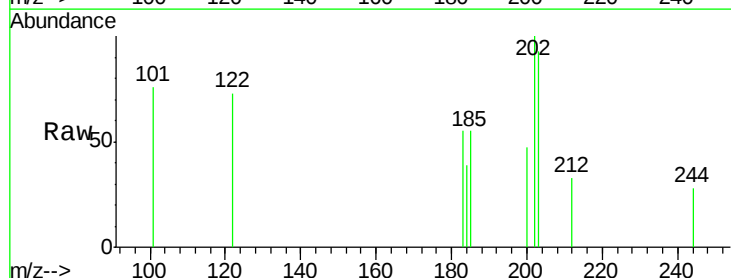
Tgt Ion:202 Resp: 290

Ion Ratio Lower Upper

202 100

200 30.3 16.6 24.8#

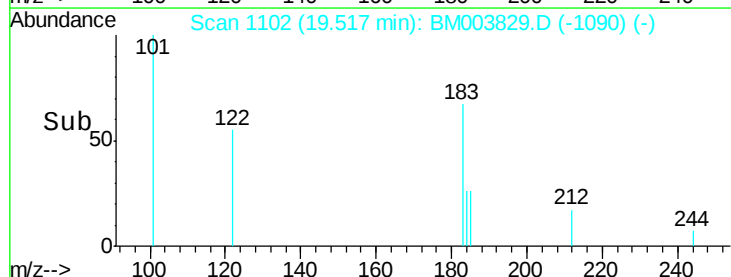
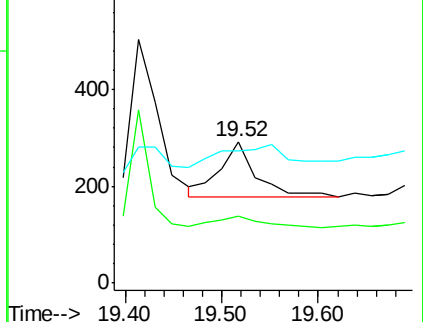
203 0.0 14.0 21.0#

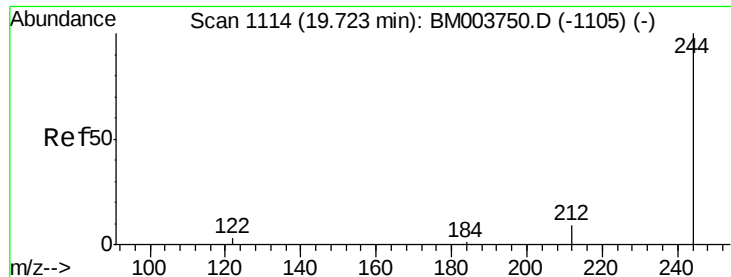


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#29

Terphenyl-d14

Concen: 13.49 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

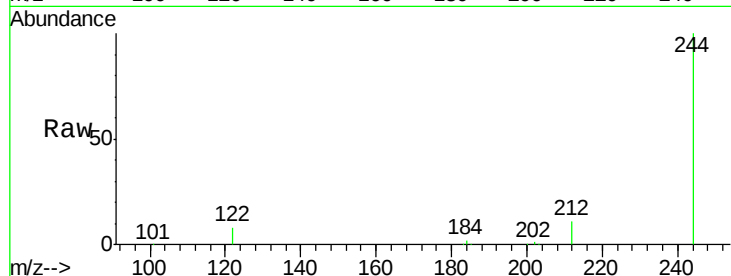
Tgt Ion:244 Resp: 1494694

Ion Ratio Lower Upper

244 100

212 11.4 7.0 10.6#

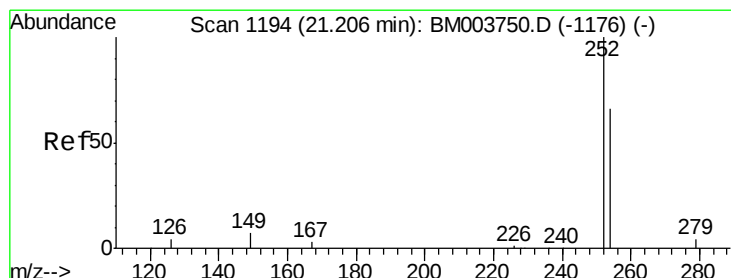
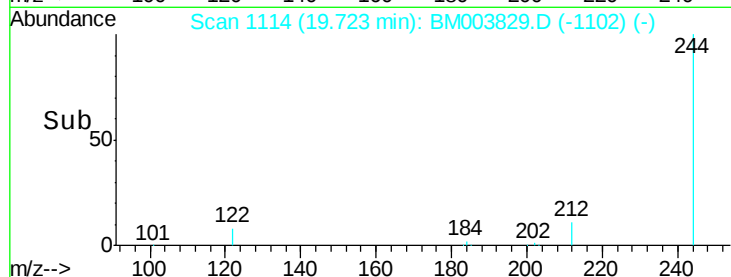
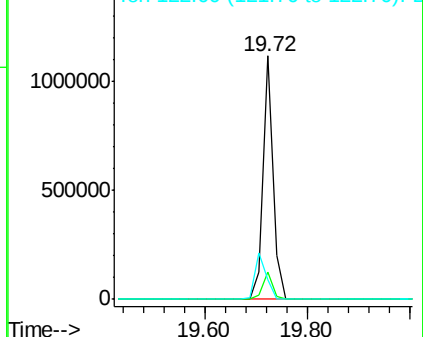
122 8.2 3.0 4.6#



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



#31

3,3'-Dichlorobenzidine

Concen: 0.25 ng

RT: 21.21 min Scan# 1194

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

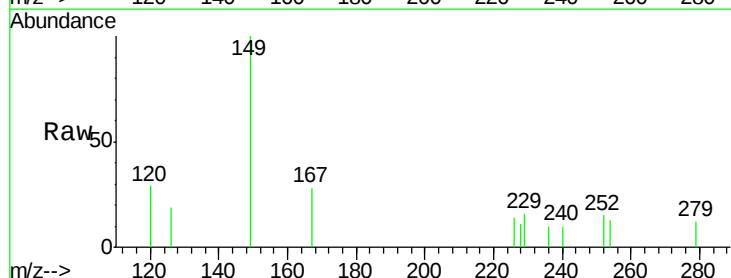
Tgt Ion:252 Resp: 350

Ion Ratio Lower Upper

252 100

254 83.3 52.6 79.0#

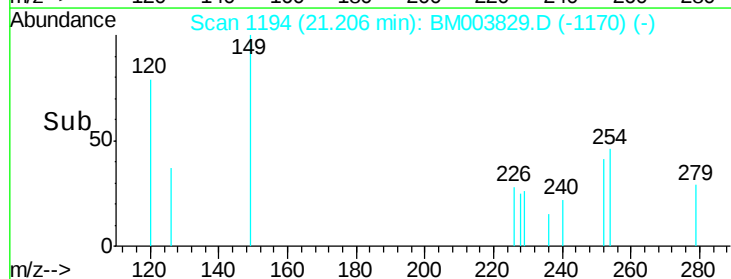
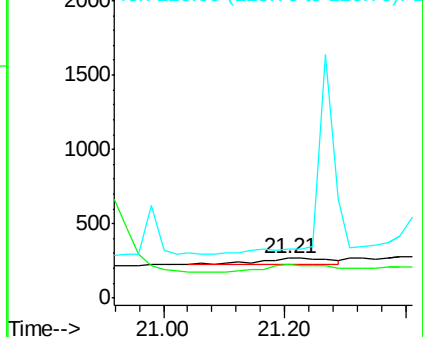
126 123.8 3.7 5.5#

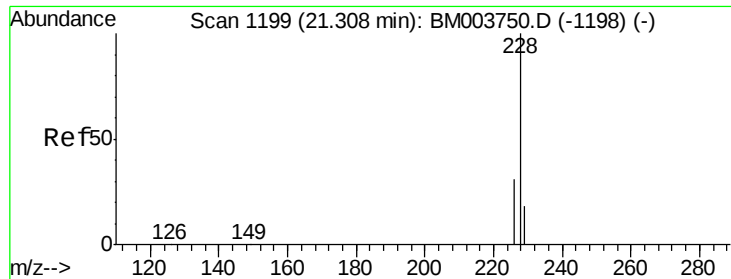


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#32

Chrysene

Concen: Below Cal

RT: 21.29 min Scan# 1198

Delta R.T. -0.02 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

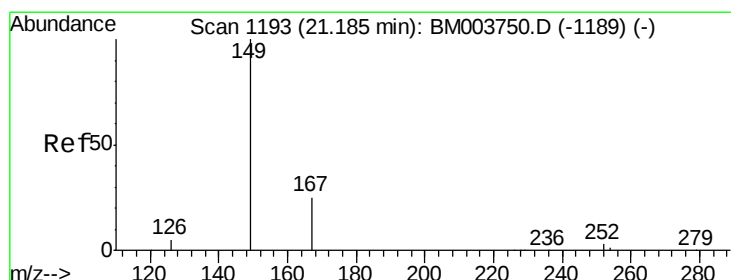
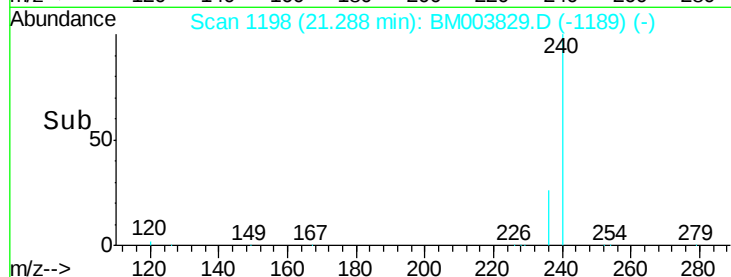
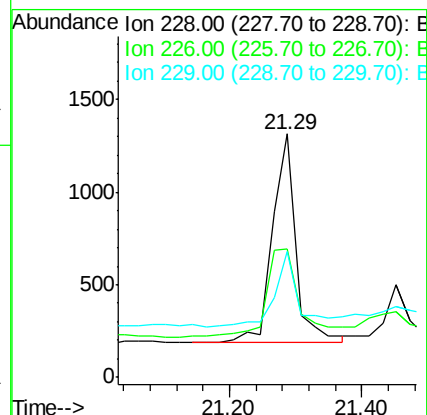
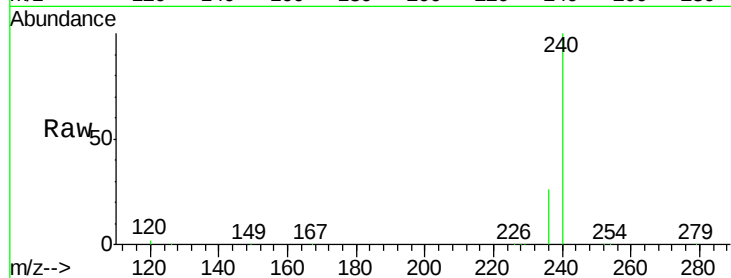
Tgt Ion:228 Resp: 2785

Ion Ratio Lower Upper

228 100

226 53.0 25.3 37.9#

229 51.9 14.5 21.7#



#33

Bis(2-ethylhexyl)phthalate

Concen: 0.20 ng

RT: 21.19 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

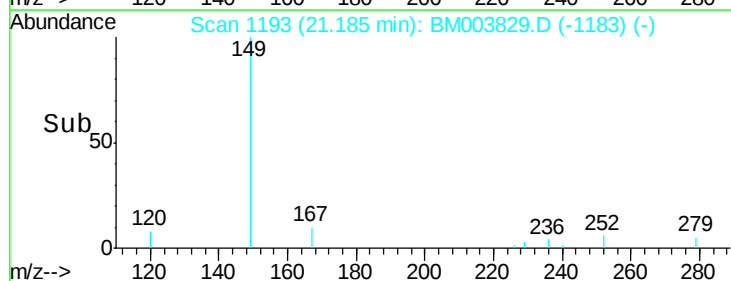
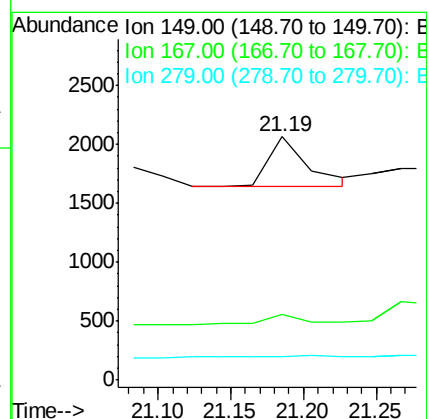
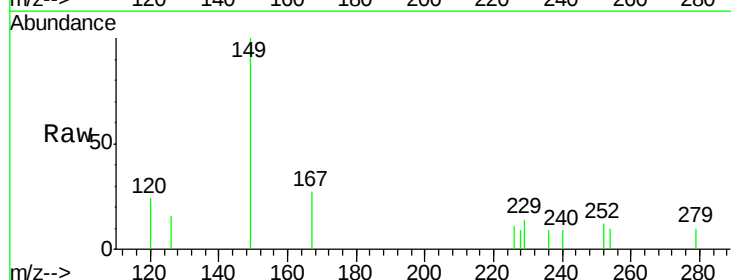
Tgt Ion:149 Resp: 805

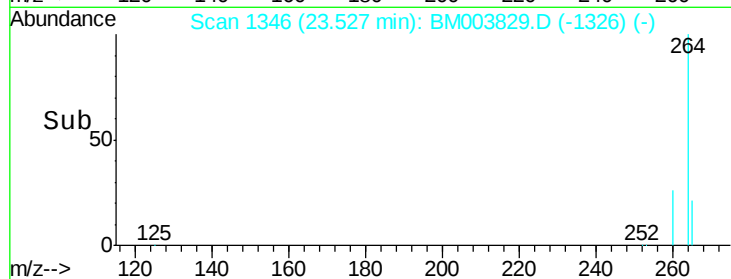
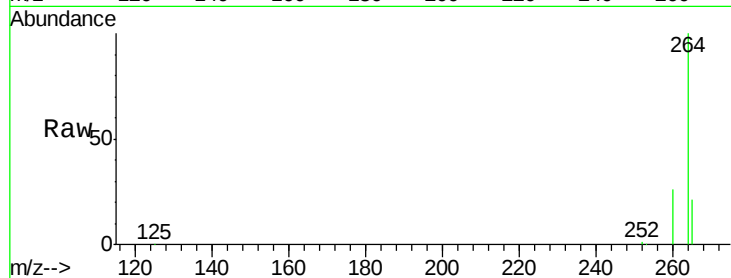
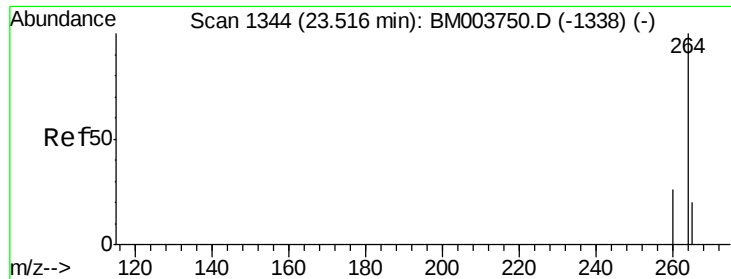
Ion Ratio Lower Upper

149 100

167 31.6 20.1 30.1#

279 0.0 0.0 0.0





#35

Perylene-d12

Concen: 5.00 ng

RT: 23.53 min Scan# 1346

Delta R.T. 0.01 min

Lab File: BM003829.D

Acq: 28 Dec 2015 15:33

Instrument :

BNA\_M

ClientSampleId :

PB87573BL

Tgt Ion: 264 Resp: 614201

Ion Ratio Lower Upper

264 100

260 26.5 21.2 31.8

265 21.2 16.7 25.1

