

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122415\  
 Data File : BM003751.D  
 Acq On : 23 Dec 2015 21:22  
 Operator : UM/SJ  
 Sample : SSTDICC002  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Dec 24 01:27:42 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 01:22:48 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 48333    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.48 | 136  | 206606   | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.33 | 164  | 118022   | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.06 | 188  | 213691   | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.27 | 240  | 200480   | 5.00 | ng    | -0.02    |
| 35) Perylene-d12          | 23.52 | 264  | 157510   | 5.00 | ng    | 0.00     |

|                             |       |     |       |      |    |      |
|-----------------------------|-------|-----|-------|------|----|------|
| System Monitoring Compounds |       |     |       |      |    |      |
| 4) 2-Fluorophenol           | 5.27  | 112 | 21851 | 2.23 | ng | 0.00 |
| 5) Phenol-d6                | 6.87  | 99  | 26880 | 2.26 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.85  | 82  | 21129 | 2.19 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.84 | 330 | 6311  | 2.56 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.95 | 172 | 70223 | 1.98 | ng | 0.00 |
| 29) Terphenyl-d14           | 19.72 | 244 | 71871 | 2.21 | ng | 0.00 |

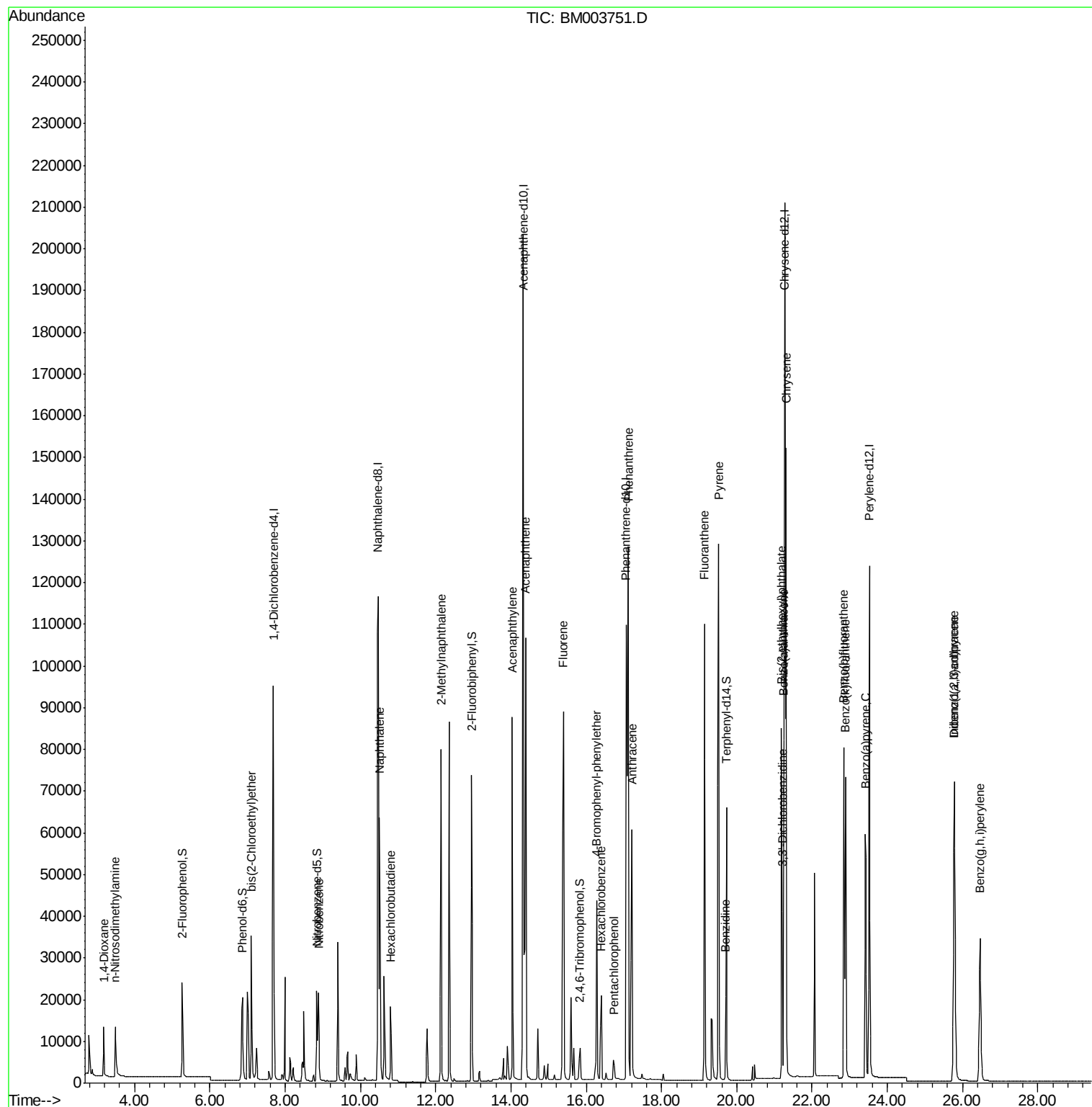
|                                |       |     |        |        |    |       |
|--------------------------------|-------|-----|--------|--------|----|-------|
| Target Compounds               |       |     |        | Qvalue |    |       |
| 2) 1,4-Dioxane                 | 3.18  | 88  | 9179   | 2.09   | ng | 98    |
| 3) n-Nitrosodimethylamine      | 3.49  | 42  | 9928   | 2.21   | ng | 98    |
| 6) bis(2-Chloroethyl)ether     | 7.11  | 93  | 24496  | 2.13   | ng | 100   |
| 9) Nitrobenzene                | 8.89  | 77  | 24442  | 2.33   | ng | 99    |
| 10) Naphthalene                | 10.51 | 128 | 92264  | 2.07   | ng | 100   |
| 11) Hexachlorobutadiene        | 10.80 | 225 | 14231  | 2.09   | ng | 100   |
| 12) 2-Methylnaphthalene        | 12.14 | 142 | 61816  | 2.04   | ng | 99    |
| 16) Acenaphthylene             | 14.04 | 152 | 108121 | 2.32   | ng | 100   |
| 17) Acenaphthene               | 14.39 | 154 | 67022  | 2.13   | ng | 99    |
| 18) Fluorene                   | 15.39 | 166 | 79287  | 2.24   | ng | 99    |
| 20) 4-Bromophenyl-phenylether  | 16.27 | 248 | 26223  | 3.78   | ng | 99    |
| 21) Hexachlorobenzene          | 16.40 | 284 | 24605  | 3.09   | ng | # 100 |
| 22) Pentachlorophenol          | 16.73 | 266 | 5788   | 2.46   | ng | # 70  |
| 23) Phenanthrene               | 17.11 | 178 | 153033 | 3.39   | ng | 100   |
| 24) Anthracene                 | 17.22 | 178 | 103919 | 2.37   | ng | 100   |
| 25) Fluoranthene               | 19.14 | 202 | 135217 | 3.02   | ng | 100   |
| 27) Benzidine                  | 19.71 | 184 | 1475   | 0.09   | ng | 96    |
| 28) Pyrene                     | 19.52 | 202 | 142010 | 1.97   | ng | 100   |
| 30) Benzo(a)anthracene         | 21.25 | 228 | 115308 | 2.14   | ng | # 79  |
| 31) 3,3'-Dichlorobenzidine     | 21.21 | 252 | 34566  | 2.43   | ng | # 95  |
| 32) Chrysene                   | 21.31 | 228 | 131328 | 2.10   | ng | 97    |
| 33) Bis(2-ethylhexyl)phthalate | 21.19 | 149 | 77477  | 2.77   | ng | # 96  |
| 34) Indeno(1,2,3-cd)pyrene     | 25.77 | 276 | 82537  | 1.75   | ng | 100   |
| 36) Benzo(b)fluoranthene       | 22.84 | 252 | 97887  | 2.04   | ng | 96    |
| 37) Benzo(k)fluoranthene       | 22.88 | 252 | 98916  | 2.31   | ng | 96    |
| 38) Benzo(a)pyrene             | 23.42 | 252 | 86175  | 2.18   | ng | 97    |
| 39) Dibenzo(a,h)anthracene     | 25.78 | 278 | 66468  | 1.85   | ng | 97    |
| 40) Benzo(g,h,i)perylene       | 26.46 | 276 | 68873  | 1.81   | ng | 97    |

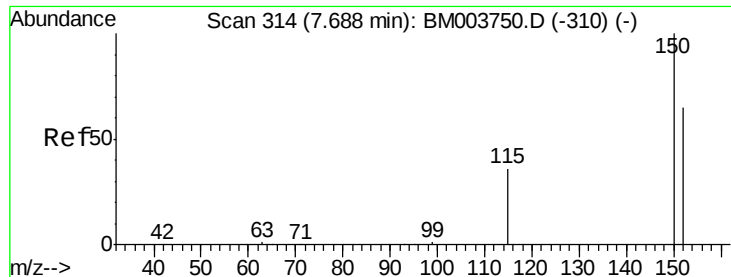
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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 01:22:48 2015  
Response via : Initial Calibration

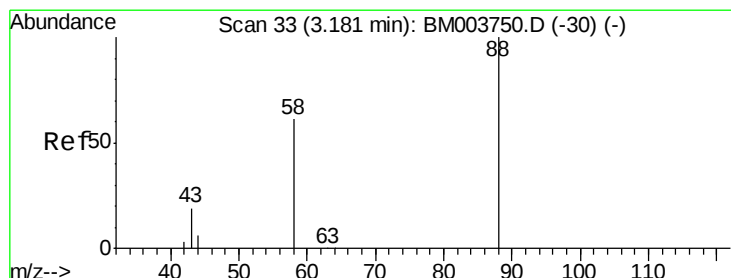
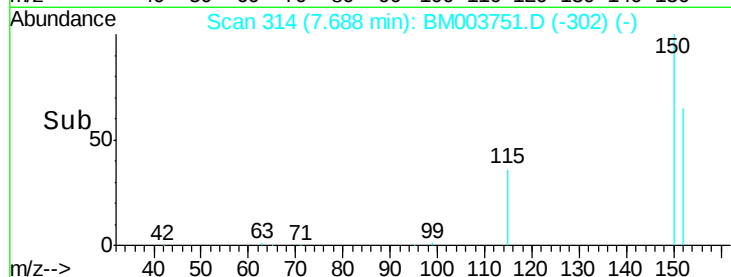
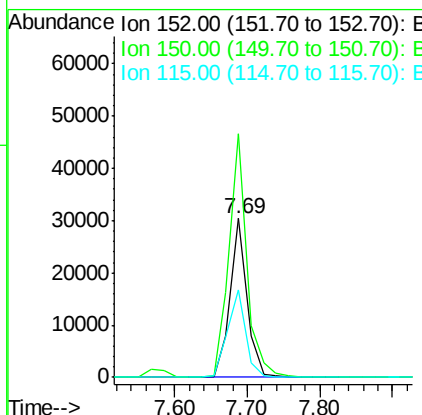
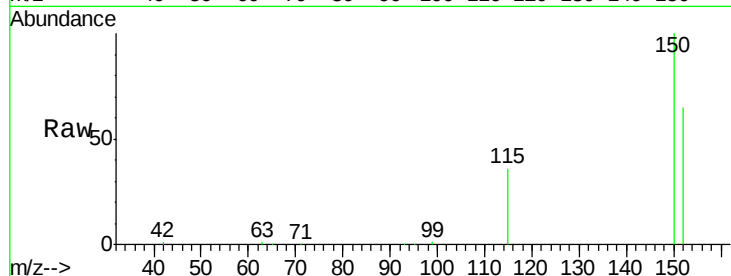




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 5.00 ng  
 RT: 7.69 min Scan# 314  
 Delta R.T. 0.00 min  
 Lab File: BM003751.D  
 Acq: 23 Dec 2015 21:22

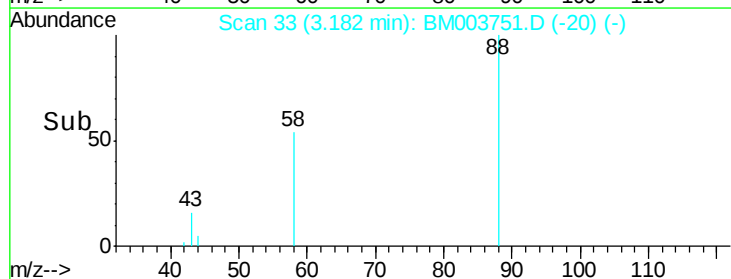
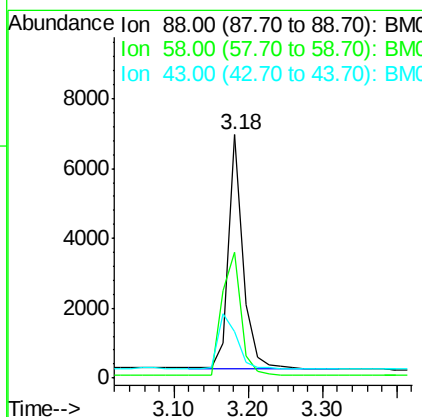
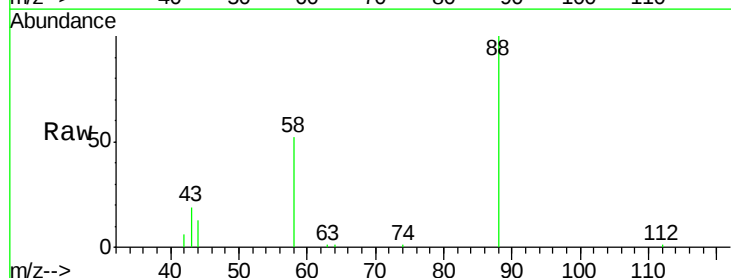
Instrument :  
 BNA\_M  
 ClientSampleId :

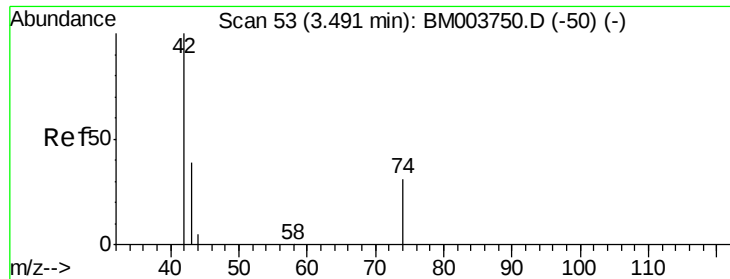
Tot Ion:152 Resp: 48333  
 Ion Ratio Lower Upper  
 152 100  
 150 153.1 122.9 184.3  
 115 54.8 44.4 66.6



#2  
 1,4-Dioxane  
 Concen: 2.09 ng  
 RT: 3.18 min Scan# 33  
 Delta R.T. 0.00 min  
 Lab File: BM003751.D  
 Acq: 23 Dec 2015 21:22

Tgt Ion: 88 Resp: 9179  
 Ion Ratio Lower Upper  
 88 100  
 58 68.9 53.8 80.6  
 43 28.9 23.8 35.6





#3

n-Nitrosodimethylamine

Concen: 2.21 ng

RT: 3.49 min Scan# 53

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

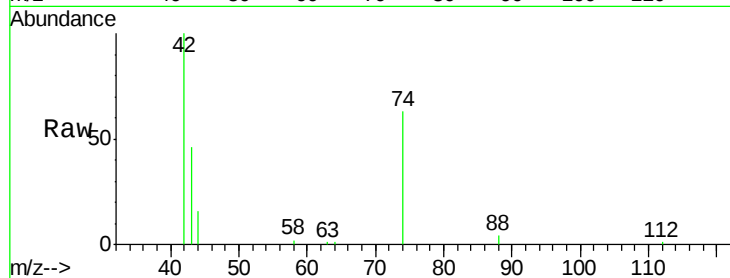
Tot Ion: 42 Resp: 9928

Ion Ratio Lower Upper

42 100

74 121.2 95.0 142.4

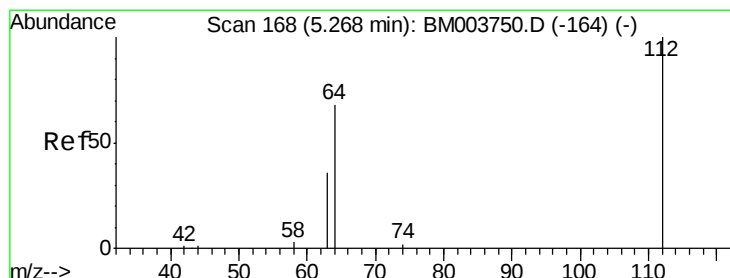
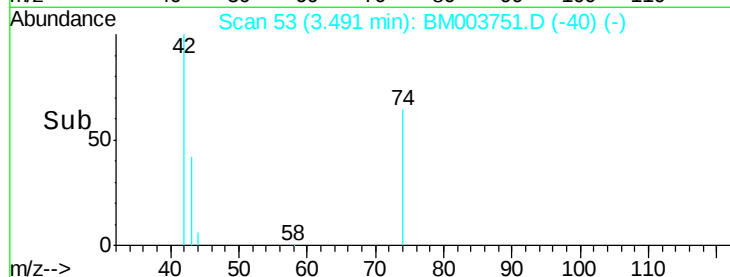
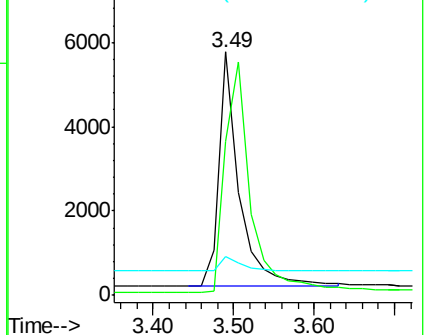
44 6.4 5.1 7.7



Abundance Ion 42.00 (41.70 to 42.70): BM003751.D (-50) (-)

Ion 74.00 (73.70 to 74.70): BM003751.D (-50) (-)

Ion 44.00 (43.70 to 44.70): BM003751.D (-50) (-)



#4

2-Fluorophenol

Concen: 2.23 ng

RT: 5.27 min Scan# 168

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

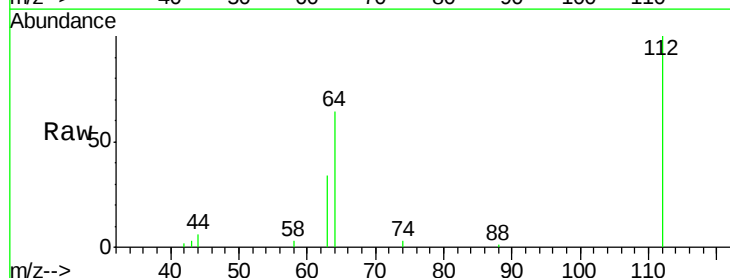
Tgt Ion: 112 Resp: 21851

Ion Ratio Lower Upper

112 100

64 52.2 41.8 62.8

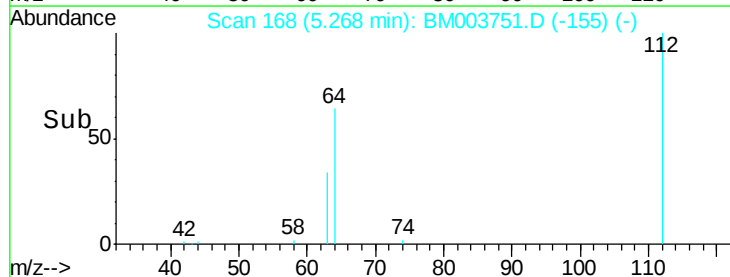
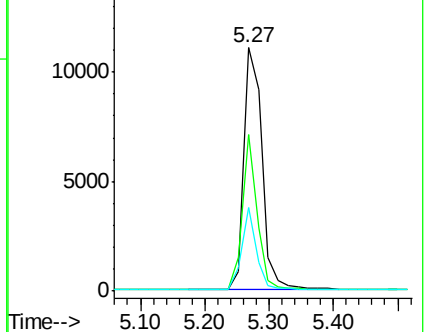
63 27.3 22.1 33.1

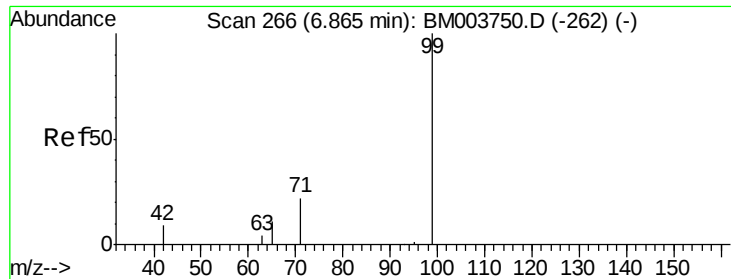


Abundance Ion 112.00 (111.70 to 112.70): BM003751.D (-164) (-)

Ion 64.00 (63.70 to 64.70): BM003751.D (-164) (-)

Ion 63.00 (62.70 to 63.70): BM003751.D (-164) (-)





#5

Phenol-d6

Concen: 2.26 ng

RT: 6.87 min Scan# 266

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

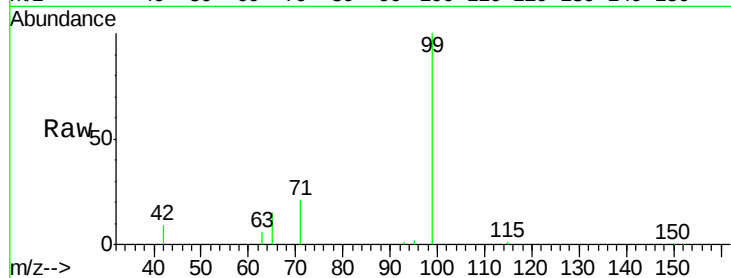
Tot Ion: 99 Resp: 26880

Ion Ratio Lower Upper

99 100

42 19.6 16.2 24.2

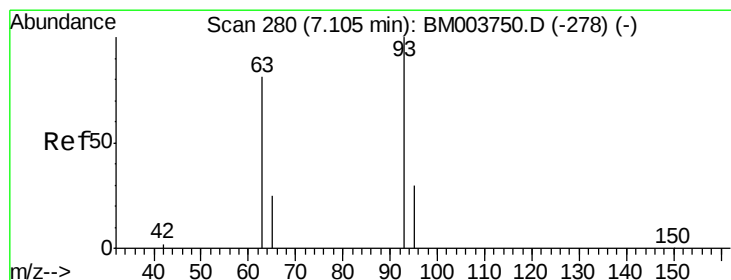
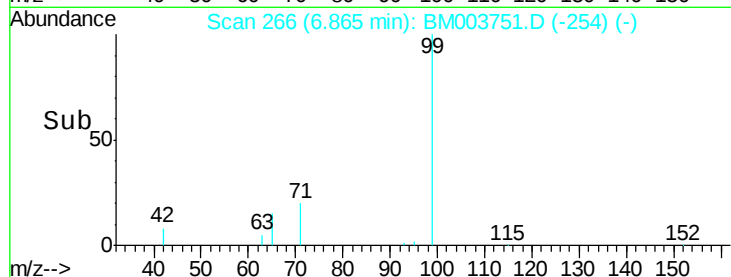
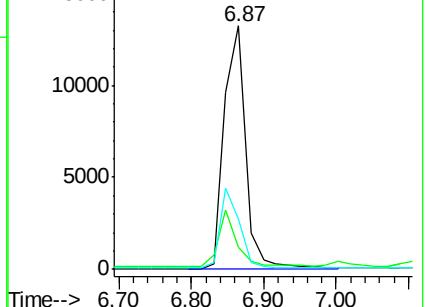
71 30.6 24.4 36.6



Abundance Ion 99.00 (98.70 to 99.70): BM003751.D (-262) (-)

Ion 42.00 (41.70 to 42.70): BM003751.D (-262) (-)

Ion 71.00 (70.70 to 71.70): BM003751.D (-262) (-)



#6

bis(2-Chloroethyl)ether

Concen: 2.13 ng

RT: 7.11 min Scan# 280

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

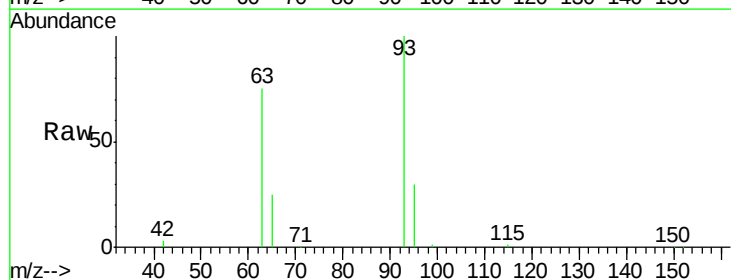
Tgt Ion: 93 Resp: 24496

Ion Ratio Lower Upper

93 100

63 73.0 58.3 87.5

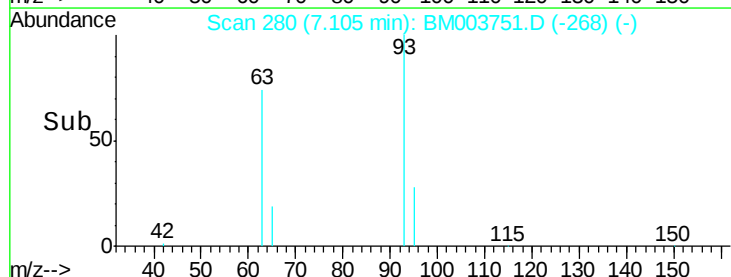
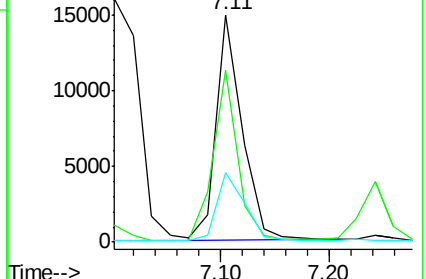
95 32.7 25.8 38.8

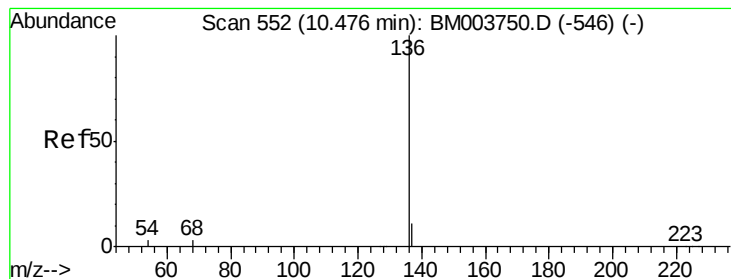


Abundance Ion 93.00 (92.70 to 93.70): BM003751.D (-278) (-)

Ion 63.00 (62.70 to 63.70): BM003751.D (-278) (-)

Ion 95.00 (94.70 to 95.70): BM003751.D (-278) (-)





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.48 min Scan# 552

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

Tot Ion:136 Resp: 206606

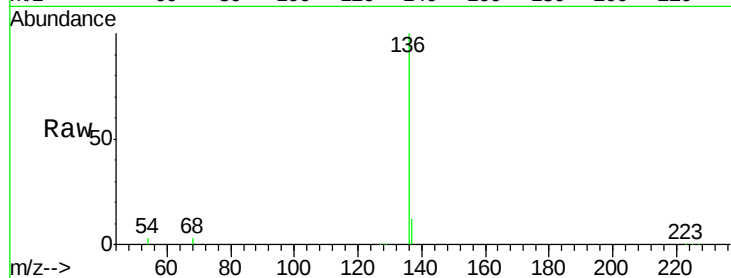
Ion Ratio Lower Upper

136 100

137 11.5 9.2 13.8

54 3.4 2.8 4.2

68 3.0 2.5 3.7

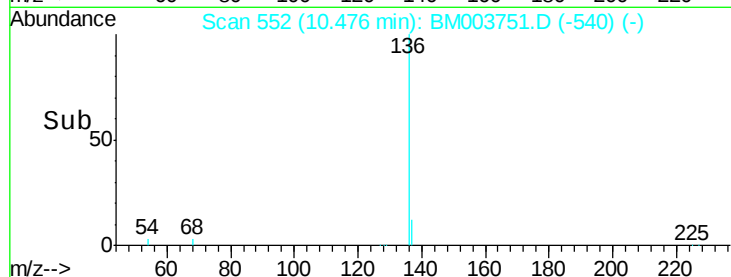


Abundance Ion 136.00 (135.70 to 136.70): E

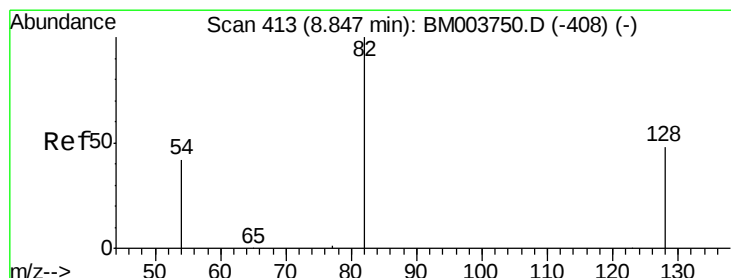
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



Time-->



#8

Nitrobenzene-d5

Concen: 2.19 ng

RT: 8.85 min Scan# 413

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

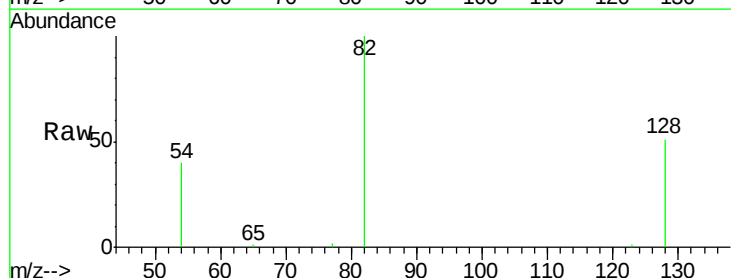
Tgt Ion: 82 Resp: 21129

Ion Ratio Lower Upper

82 100

128 50.8 39.1 58.7

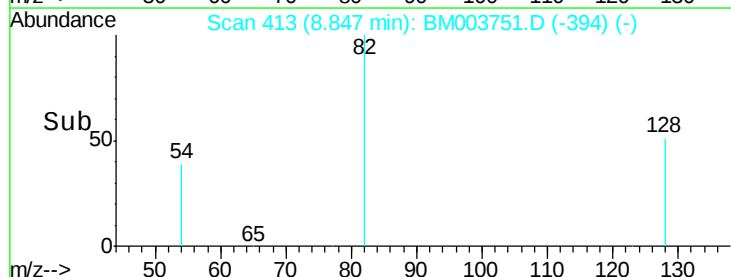
54 40.0 34.8 52.2



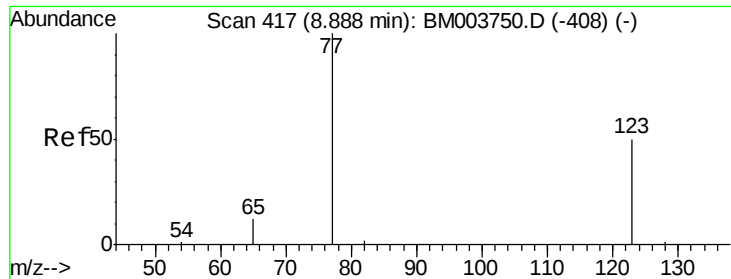
Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM



Time-->



#9

Nitrobenzene

Concen: 2.33 ng

RT: 8.89 min Scan# 417

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

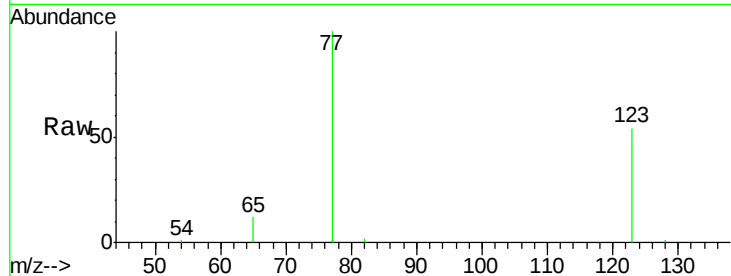
Tot Ion: 77 Resp: 24442

Ion Ratio Lower Upper

77 100

123 49.2 38.6 57.8

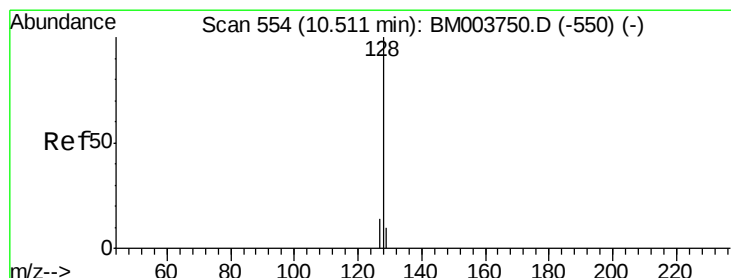
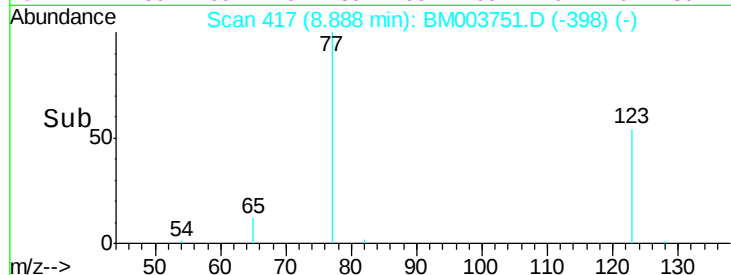
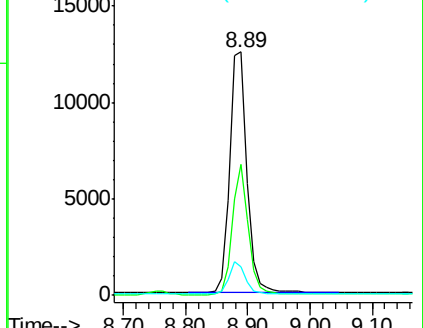
65 12.7 9.9 14.9



Abundance Ion 77.00 (76.70 to 77.70): BM003751.D (-408) (-)

Ion 123.00 (122.70 to 123.70): BM003751.D (-408) (-)

Ion 65.00 (64.70 to 65.70): BM003751.D (-408) (-)



#10

Naphthalene

Concen: 2.07 ng

RT: 10.51 min Scan# 554

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

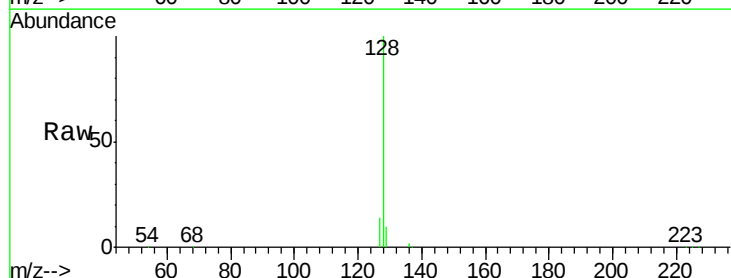
Tgt Ion: 128 Resp: 92264

Ion Ratio Lower Upper

128 100

129 10.5 8.5 12.7

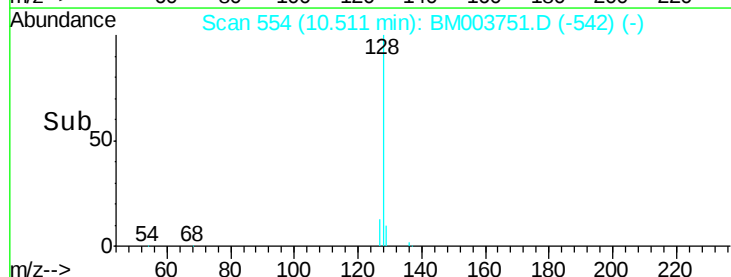
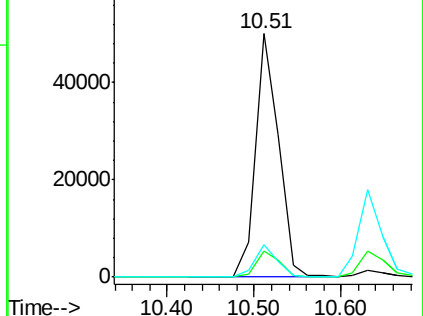
127 13.5 11.0 16.4

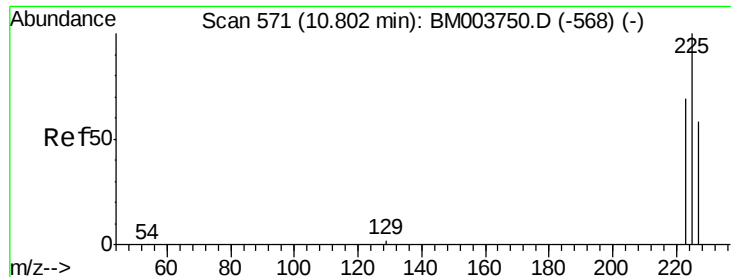


Abundance Ion 128.00 (127.70 to 128.70): BM003751.D (-550) (-)

Ion 129.00 (128.70 to 129.70): BM003751.D (-550) (-)

Ion 127.00 (126.70 to 127.70): BM003751.D (-550) (-)

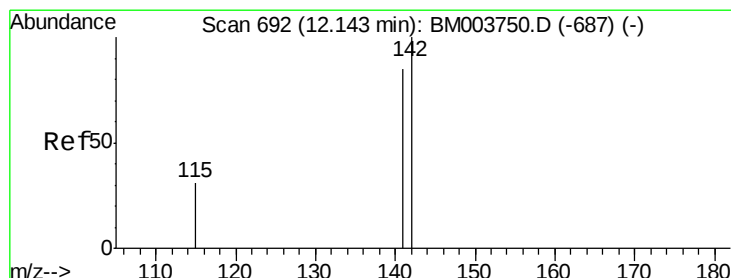
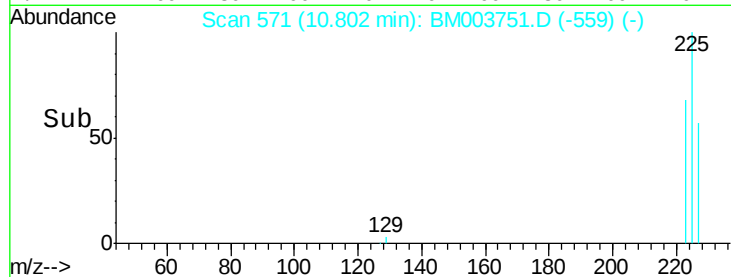
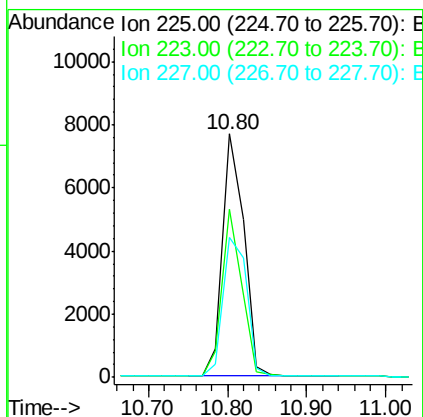
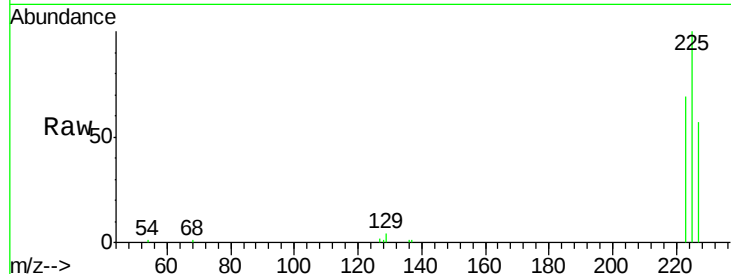




#11  
Hexachlorobutadiene  
Concen: 2.09 ng  
RT: 10.80 min Scan# 571  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

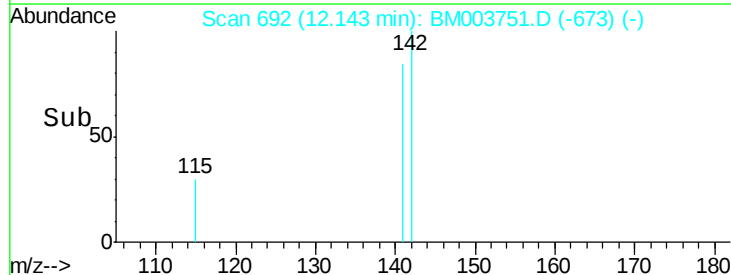
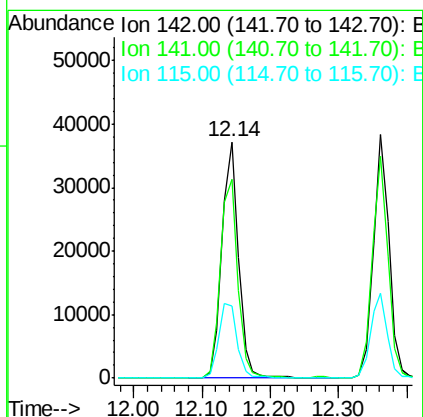
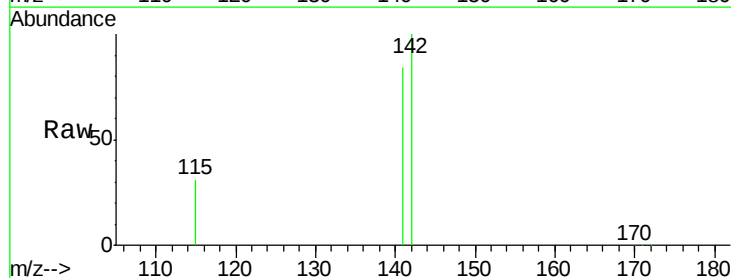
Instrument :  
BNA\_M  
ClientSampleId :

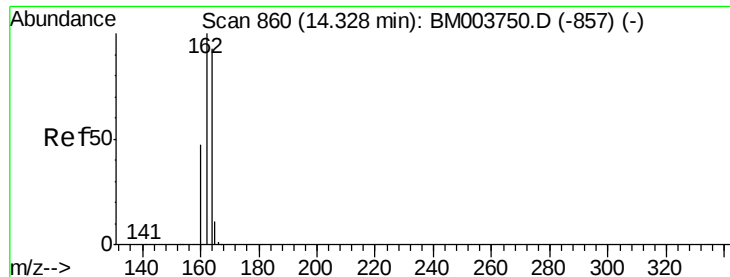
Tot Ion:225 Resp: 14231  
Ion Ratio Lower Upper  
225 100  
223 63.3 50.9 76.3  
227 63.5 51.2 76.8



#12  
2-Methylnaphthalene  
Concen: 2.04 ng  
RT: 12.14 min Scan# 692  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

Tgt Ion:142 Resp: 61816  
Ion Ratio Lower Upper  
142 100  
141 84.0 67.8 101.8  
115 30.5 25.3 37.9





#13

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.33 min Scan# 860

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

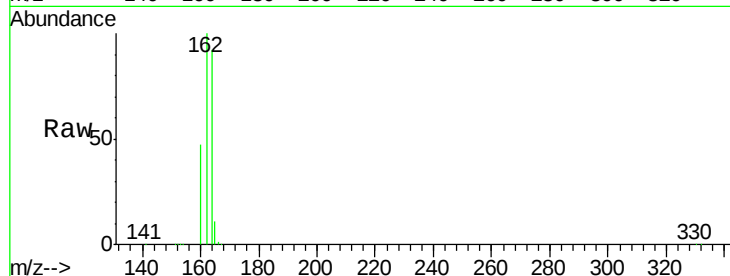
Tot Ion:164 Resp: 118022

Ion Ratio Lower Upper

164 100

162 109.1 86.0 129.0

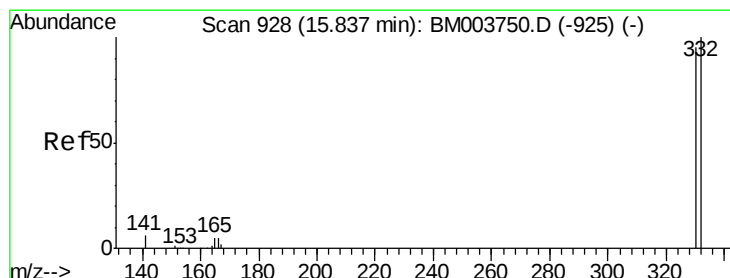
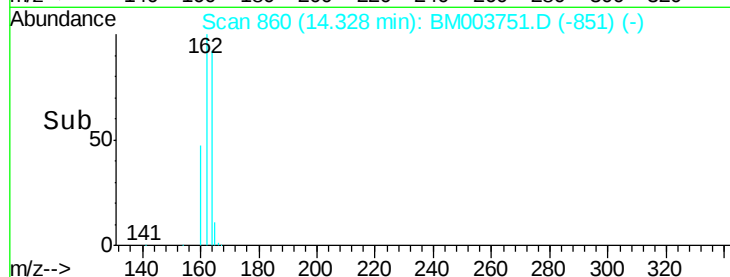
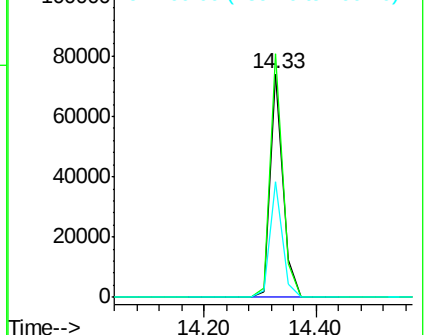
160 51.8 40.3 60.5



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



#14

2,4,6-Tribromophenol

Concen: 2.56 ng

RT: 15.84 min Scan# 928

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

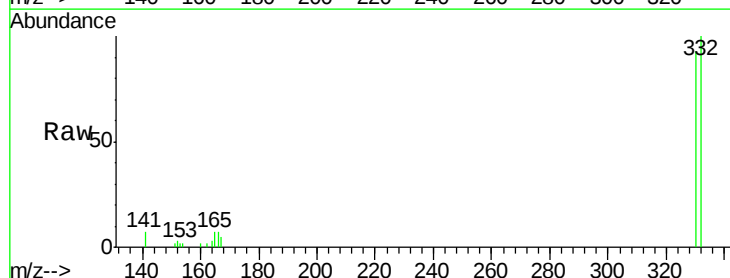
Tgt Ion:330 Resp: 6311

Ion Ratio Lower Upper

330 100

332 99.0 79.0 118.4

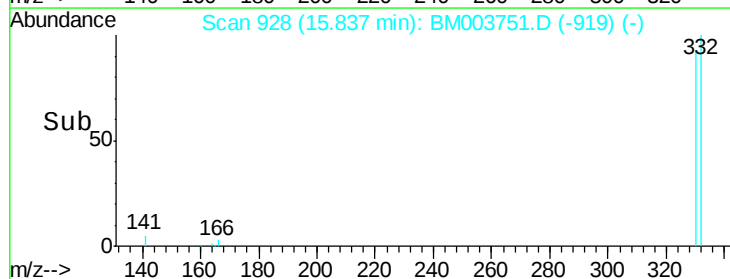
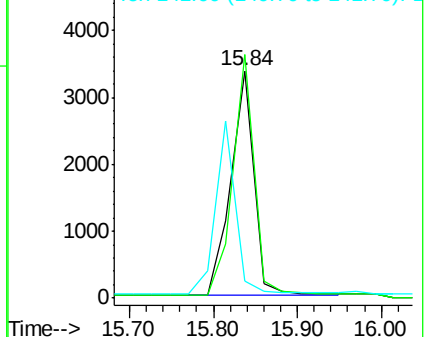
141 0.0 0.0 0.0

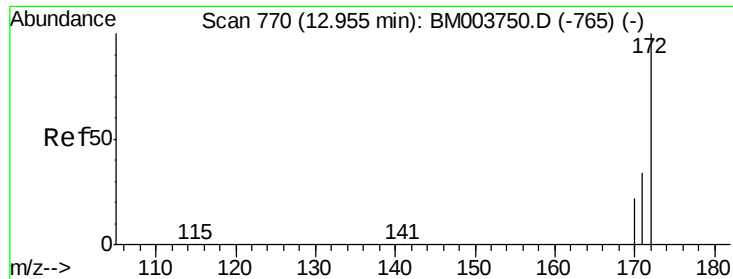


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

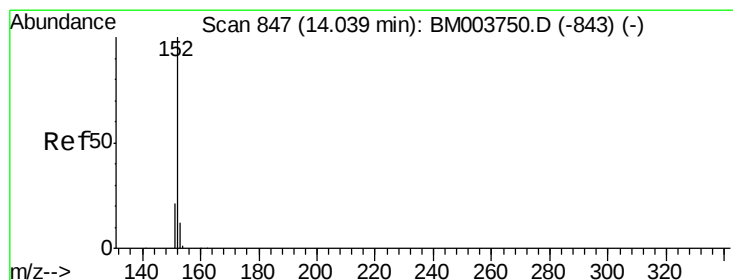
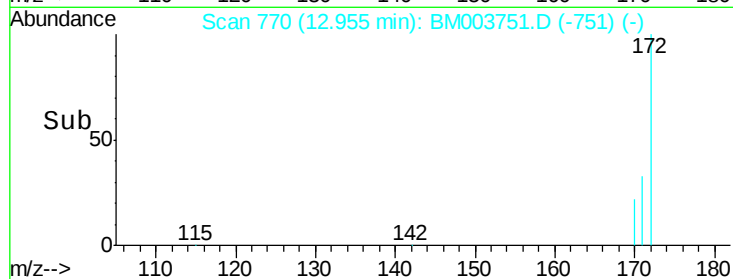
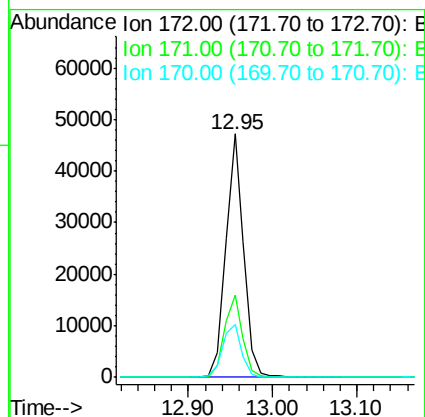
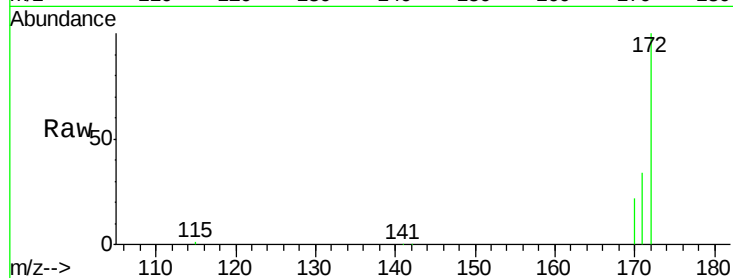




#15  
2-Fluorobiphenyl  
Concen: 1.98 ng  
RT: 12.95 min Scan# 770  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

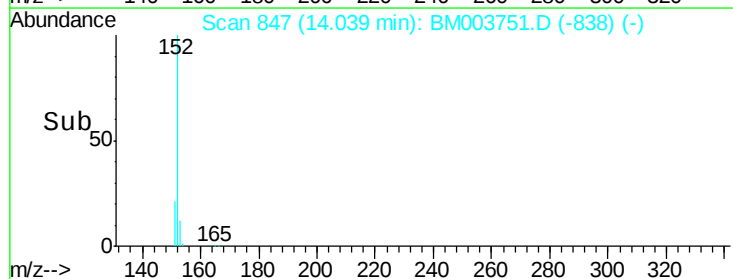
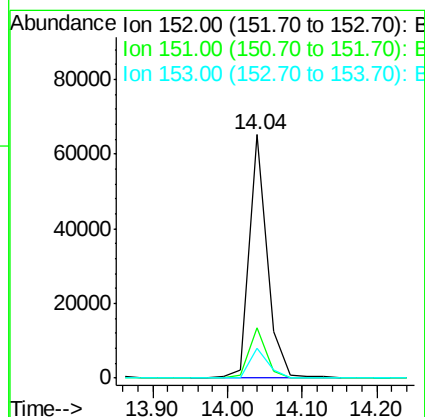
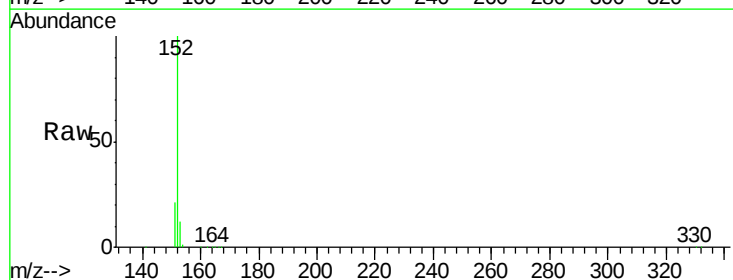
Instrument :  
BNA\_M  
ClientSampleId :

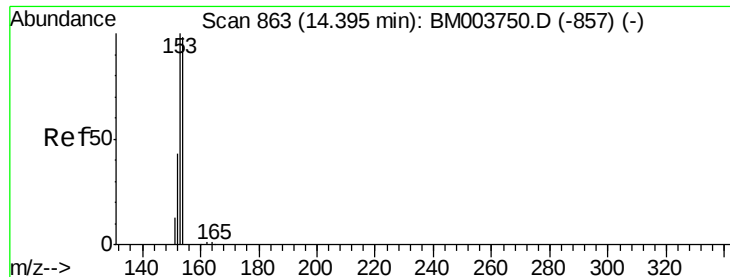
Tot Ion:172 Resp: 70223  
Ion Ratio Lower Upper  
172 100  
171 33.7 27.0 40.6  
170 21.8 17.9 26.9



#16  
Acenaphthylene  
Concen: 2.32 ng  
RT: 14.04 min Scan# 847  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

Tgt Ion:152 Resp: 108121  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.8 23.8  
153 12.6 10.2 15.4

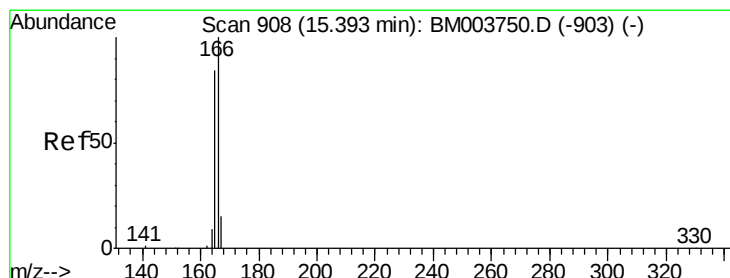
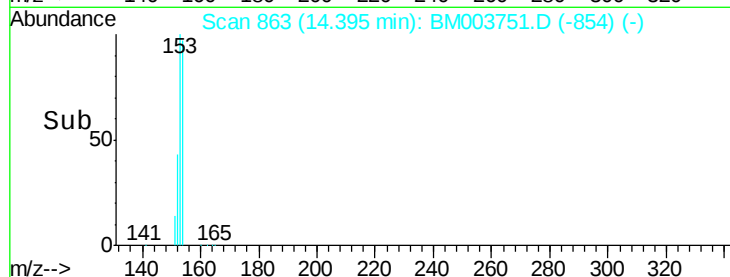
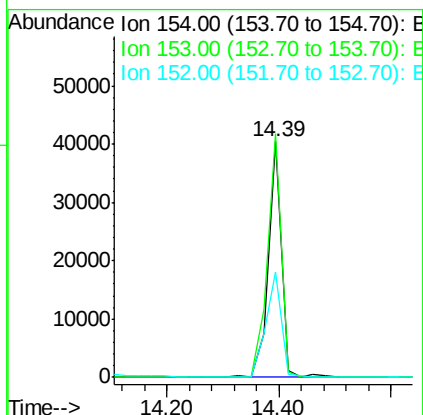
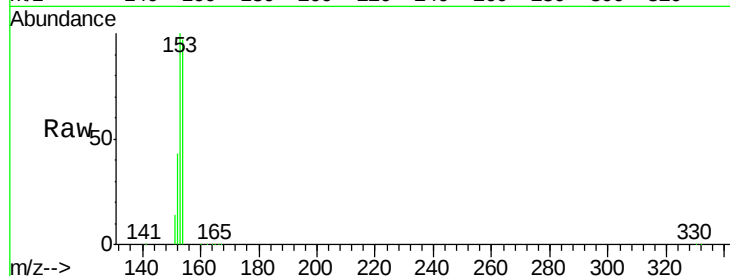




#17  
Acenaphthene  
Concen: 2.13 ng  
RT: 14.39 min Scan# 863  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

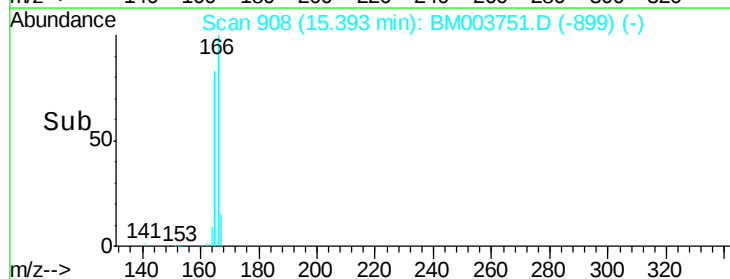
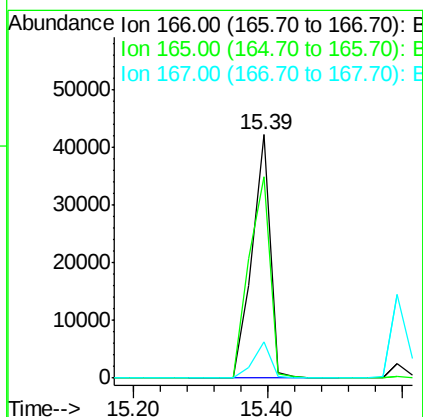
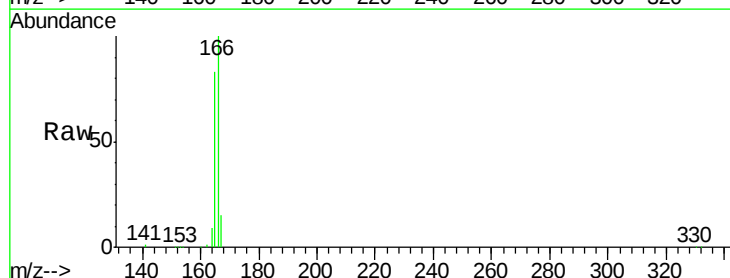
Instrument :  
BNA\_M  
ClientSampleId :

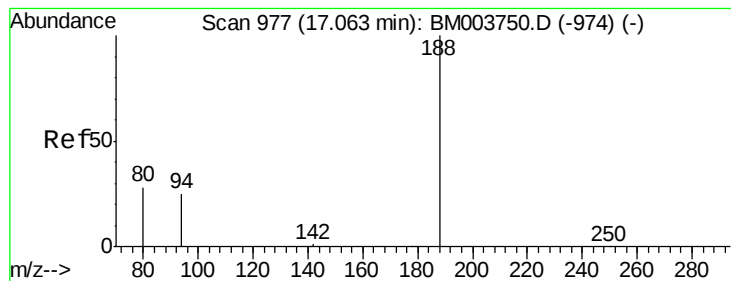
Tot Ion:154 Resp: 67022  
Ion Ratio Lower Upper  
154 100  
153 108.2 85.4 128.2  
152 51.5 40.6 60.8



#18  
Fluorene  
Concen: 2.24 ng  
RT: 15.39 min Scan# 908  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

Tgt Ion:166 Resp: 79287  
Ion Ratio Lower Upper  
166 100  
165 95.4 77.2 115.8  
167 13.7 11.0 16.6





#19

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.06 min Scan# 977

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

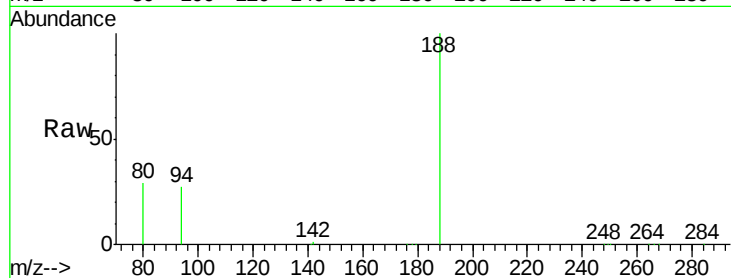
Tot Ion:188 Resp: 213691

Ion Ratio Lower Upper

188 100

94 26.5 20.3 30.5

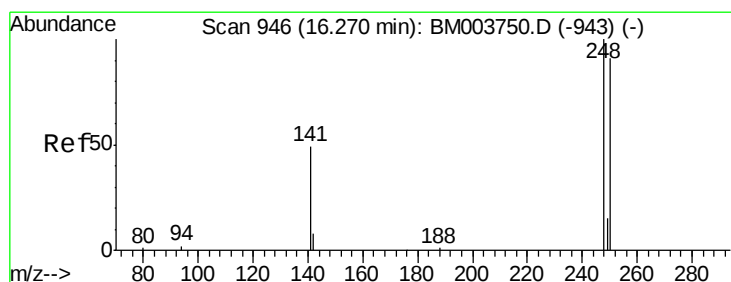
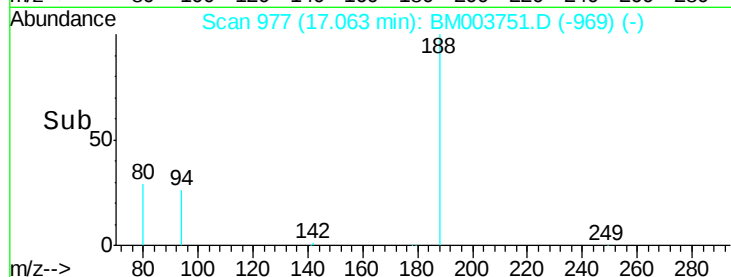
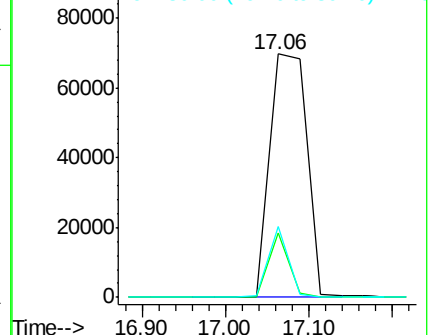
80 29.1 22.2 33.4



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



#20

4-Bromophenyl-phenylether

Concen: 3.78 ng

RT: 16.27 min Scan# 946

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

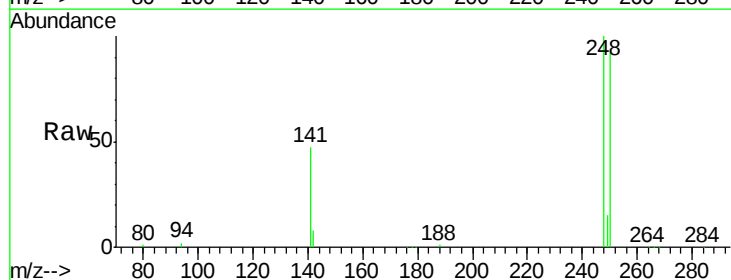
Tgt Ion:248 Resp: 26223

Ion Ratio Lower Upper

248 100

250 94.0 75.0 112.4

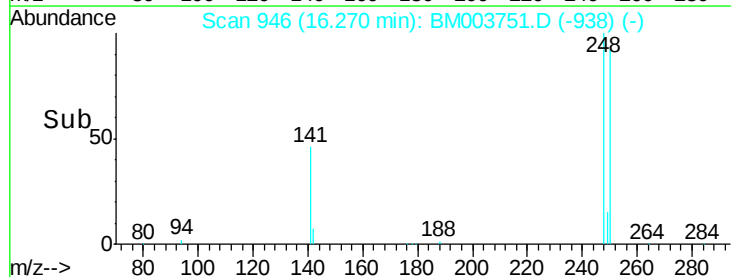
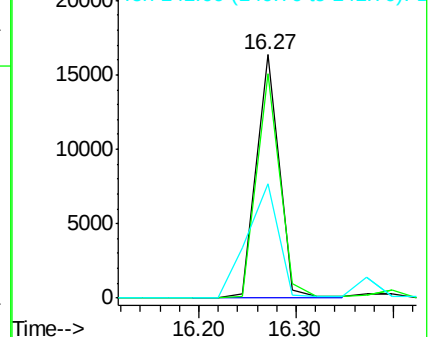
141 64.9 53.0 79.4

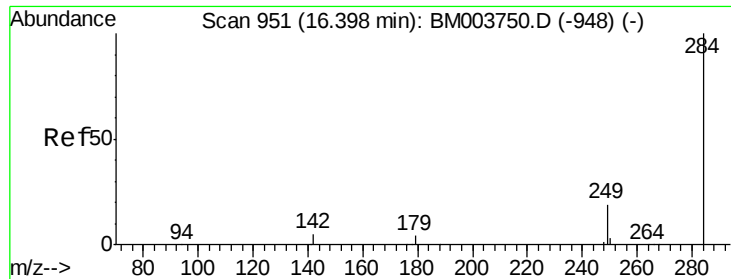


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

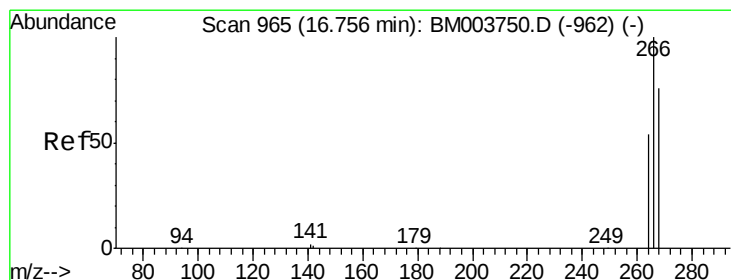
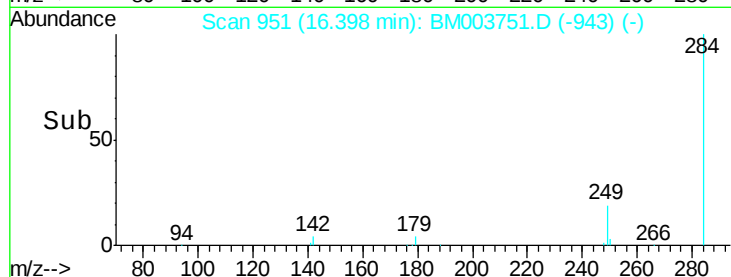
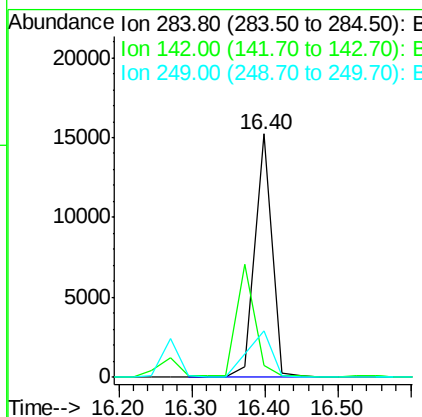
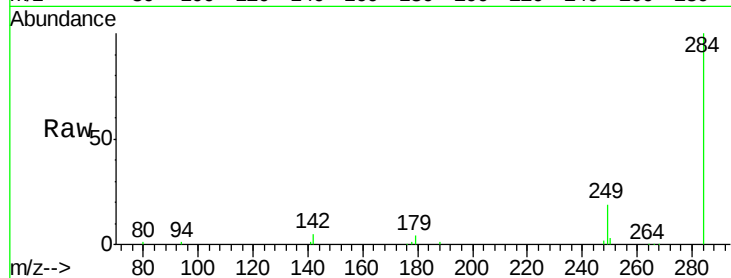




#21  
Hexachlorobenzene  
Concen: 3.09 ng  
RT: 16.40 min Scan# 951  
Delta R.T. 0.00 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

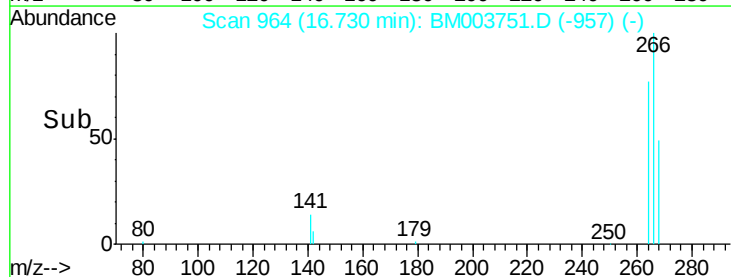
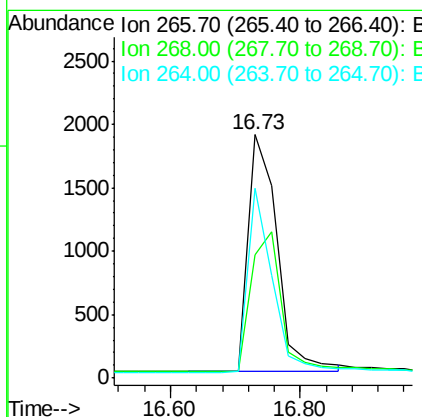
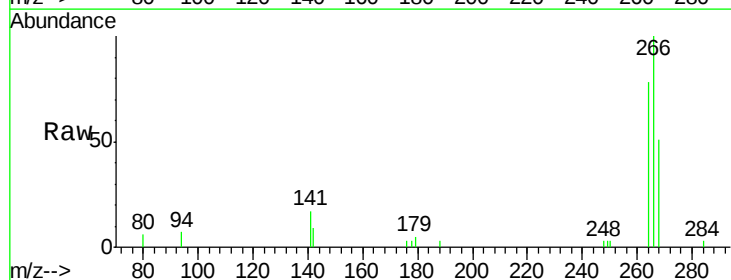
Instrument :  
BNA\_M  
ClientSampleId :

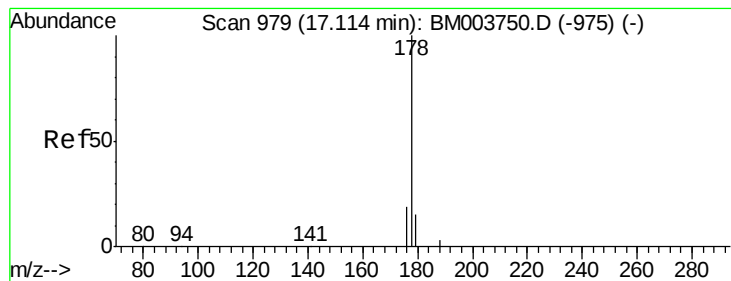
Tot Ion:284 Resp: 24605  
Ion Ratio Lower Upper  
284 100  
142 0.0 0.0 0.0  
249 26.7 21.5 32.3



#22  
Pentachlorophenol  
Concen: 2.46 ng  
RT: 16.73 min Scan# 964  
Delta R.T. -0.03 min  
Lab File: BM003751.D  
Acq: 23 Dec 2015 21:22

Tgt Ion:266 Resp: 5788  
Ion Ratio Lower Upper  
266 100  
268 50.9 62.7 94.1#  
264 77.9 45.7 68.5#





#23

Phenanthrene

Concen: 3.39 ng

RT: 17.11 min Scan# 979

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

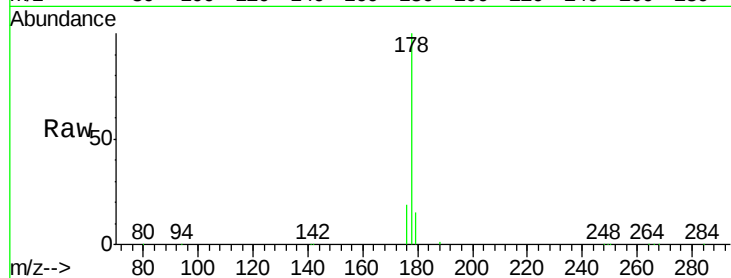
Tot Ion:178 Resp: 153033

Ion Ratio Lower Upper

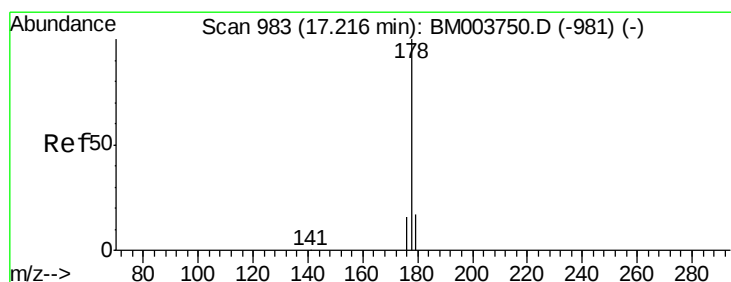
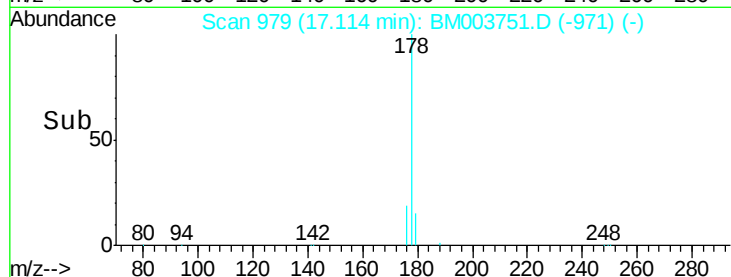
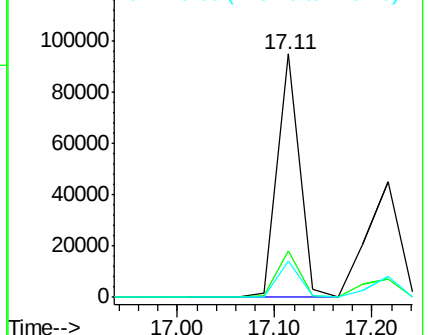
178 100

176 19.0 15.4 23.0

179 15.1 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: 2.37 ng

RT: 17.22 min Scan# 983

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

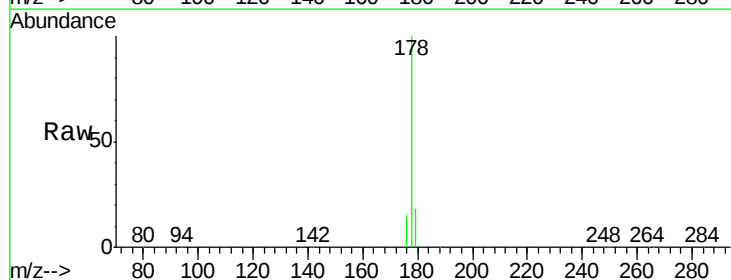
Tgt Ion:178 Resp: 103919

Ion Ratio Lower Upper

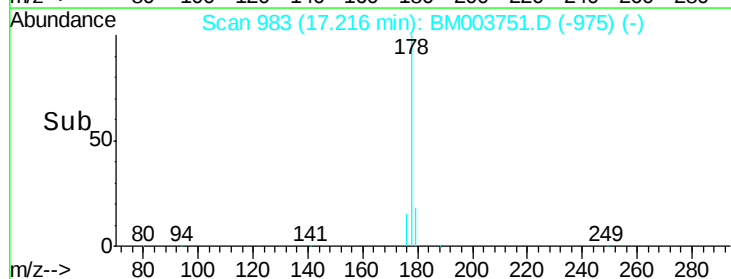
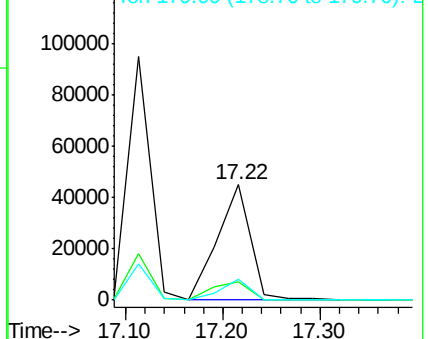
178 100

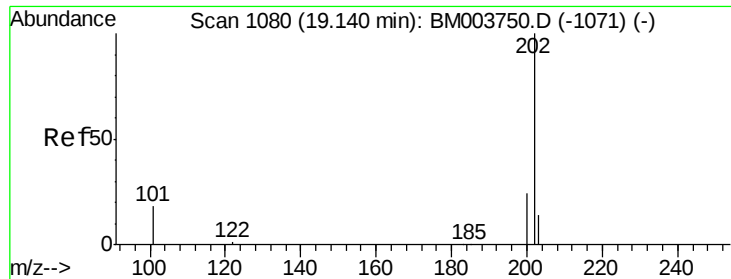
176 18.2 14.6 21.8

179 16.0 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: 3.02 ng

RT: 19.14 min Scan# 1080

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

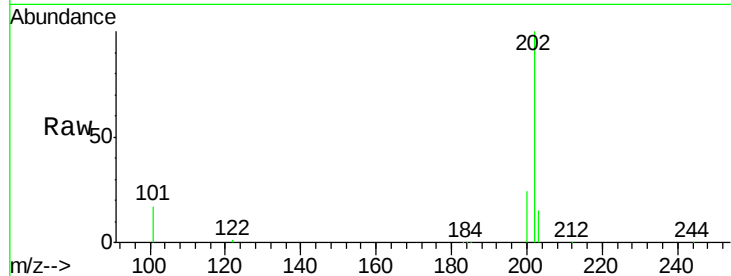
Tot Ion:202 Resp: 135217

Ion Ratio Lower Upper

202 100

101 12.1 9.7 14.5

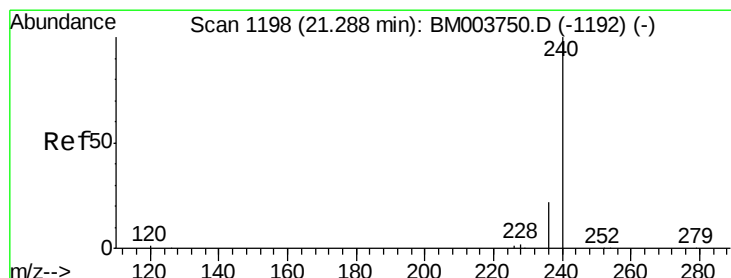
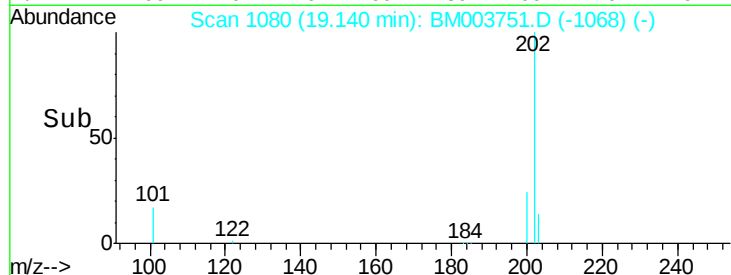
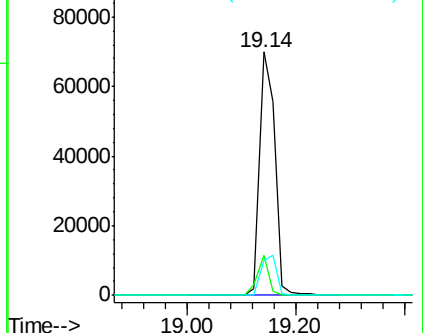
203 17.2 13.8 20.8



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



#26

Chrysene-d12

Concen: 5.00 ng

RT: 21.27 min Scan# 1197

Delta R.T. -0.02 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

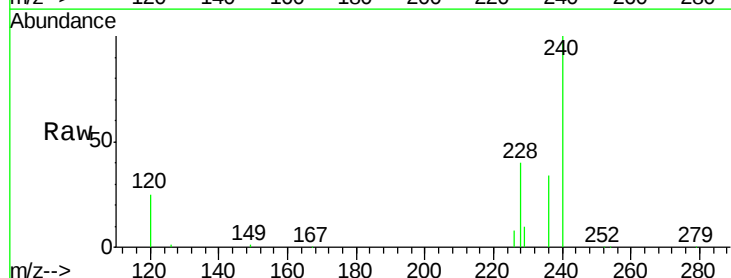
Tgt Ion:240 Resp: 200480

Ion Ratio Lower Upper

240 100

120 25.4 0.9 1.3#

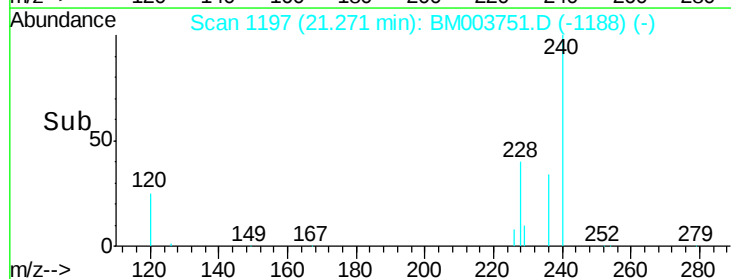
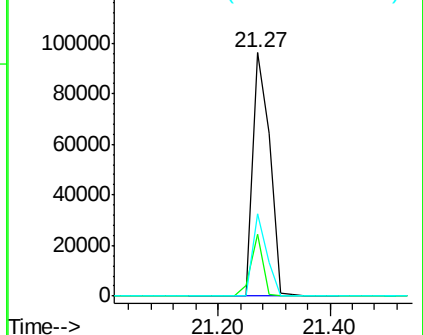
236 33.8 17.3 25.9#

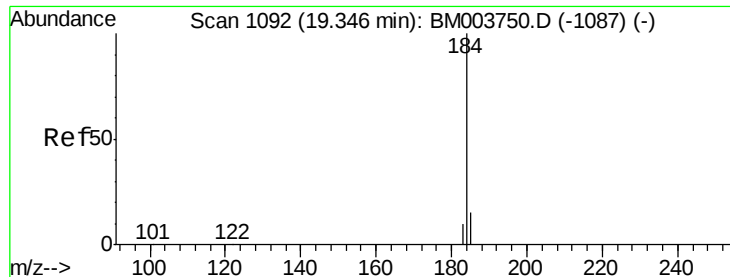


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.09 ng

RT: 19.71 min Scan# 1113

Delta R.T. 0.36 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

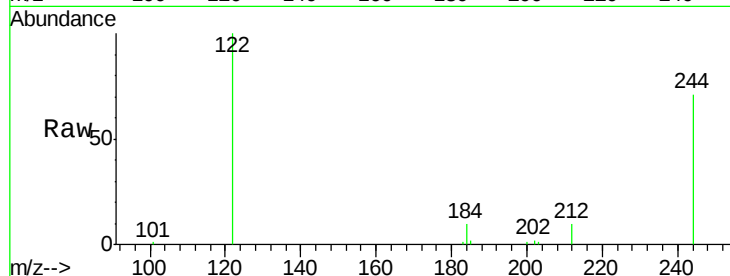
Tot Ion:184 Resp: 1475

Ion Ratio Lower Upper

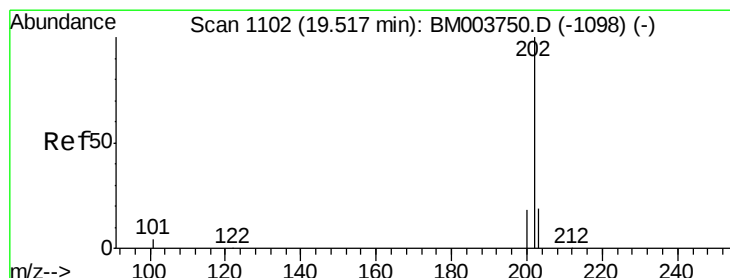
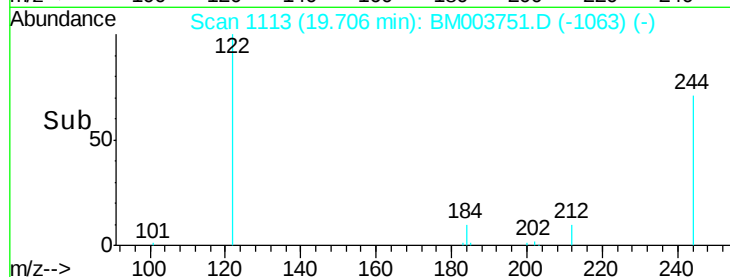
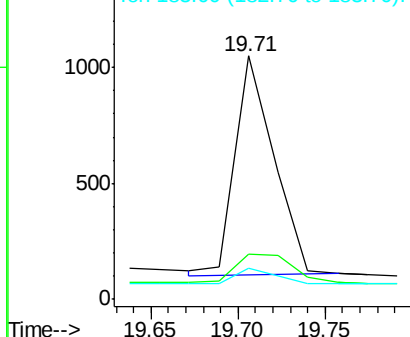
184 100

185 18.6 13.2 19.8

183 12.7 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: 1.97 ng

RT: 19.52 min Scan# 1102

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

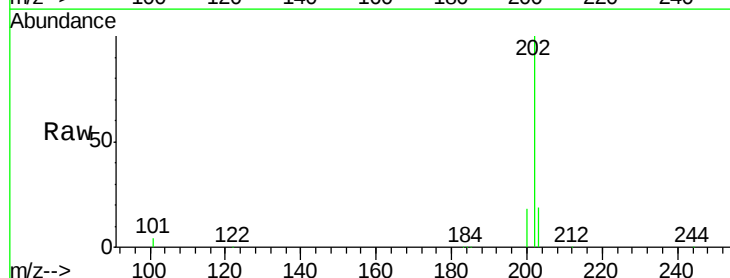
Tgt Ion:202 Resp: 142010

Ion Ratio Lower Upper

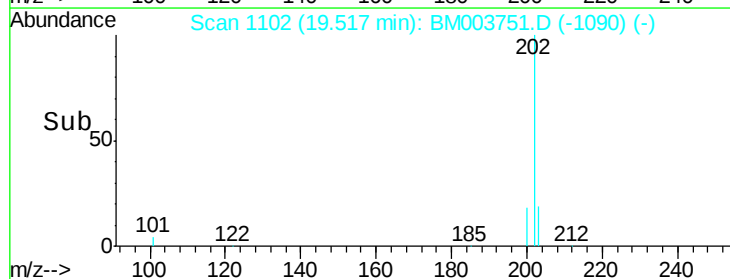
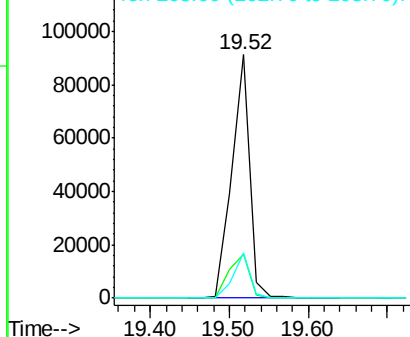
202 100

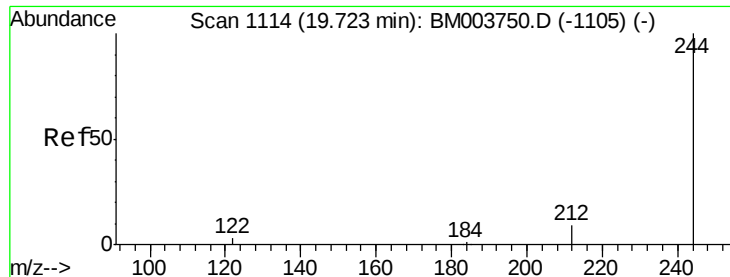
200 20.7 16.6 24.8

203 17.5 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: 2.21 ng

RT: 19.72 min Scan# 1114

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

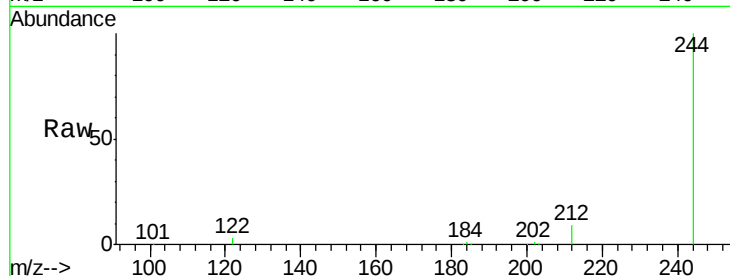
Tot Ion:244 Resp: 71871

Ion Ratio Lower Upper

244 100

212 8.8 7.0 10.6

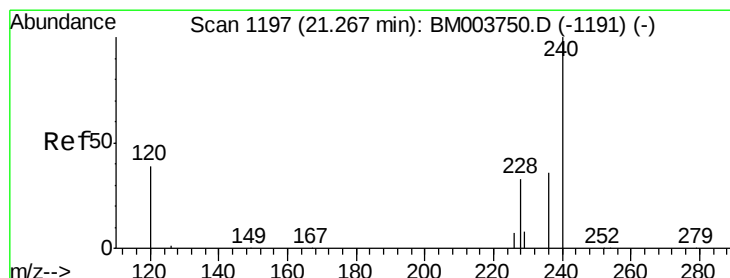
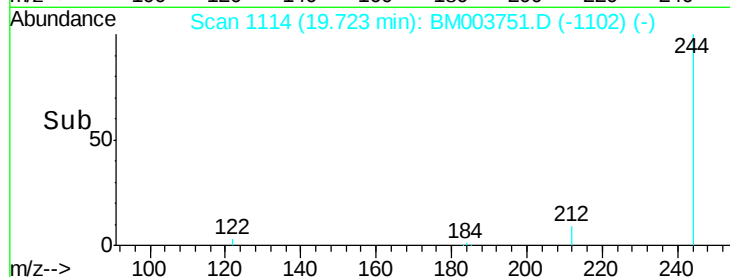
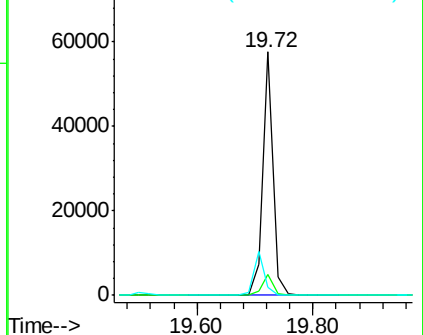
122 3.3 3.0 4.6



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



#30

Benzo(a)anthracene

Concen: 2.14 ng

RT: 21.25 min Scan# 1196

Delta R.T. -0.02 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

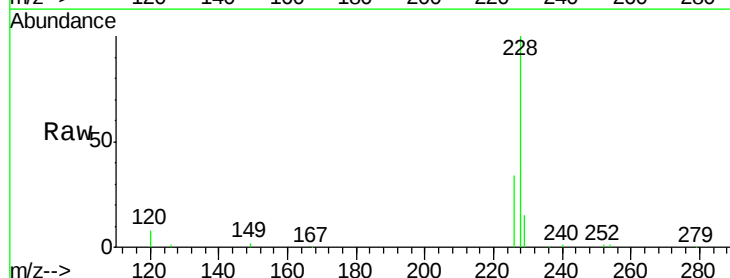
Tgt Ion:228 Resp: 115308

Ion Ratio Lower Upper

228 100

226 34.2 17.2 25.8#

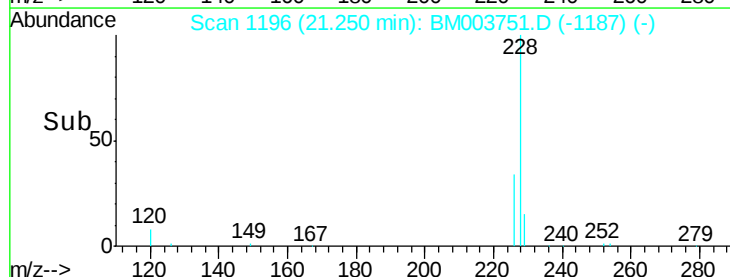
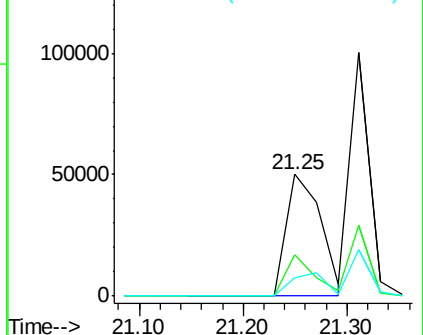
229 15.4 18.7 28.1#

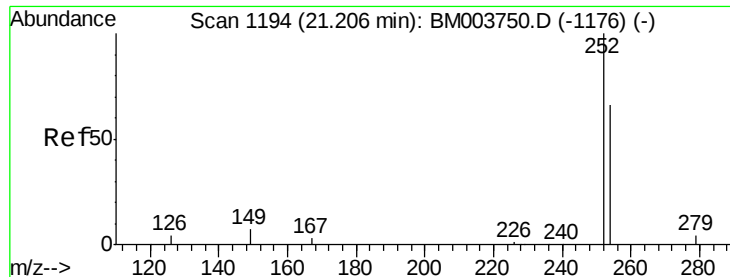


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

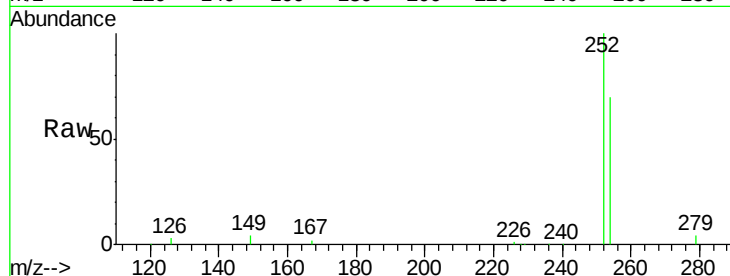




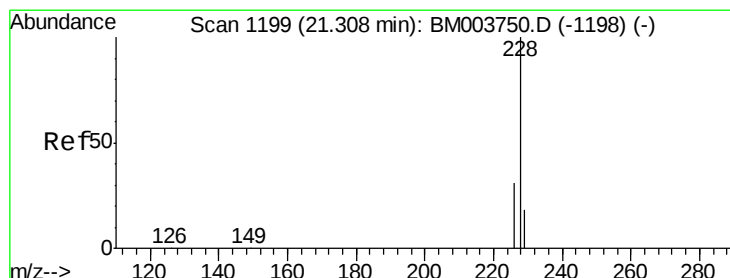
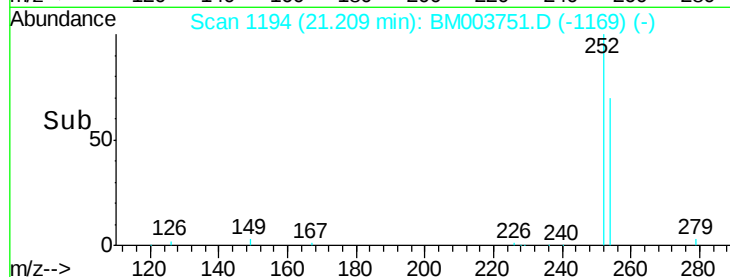
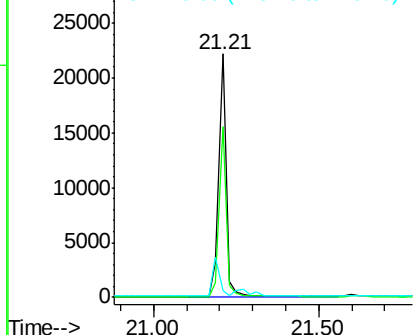
#31  
 3,3'-Dichlorobenzidine  
 Concen: 2.43 ng  
 RT: 21.21 min Scan# 1194  
 Delta R.T. 0.00 min  
 Lab File: BM003751.D  
 Acq: 23 Dec 2015 21:22

Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion:252 Resp: 34566  
 Ion Ratio Lower Upper  
 252 100  
 254 70.1 52.6 79.0  
 126 2.7 3.7 5.5#

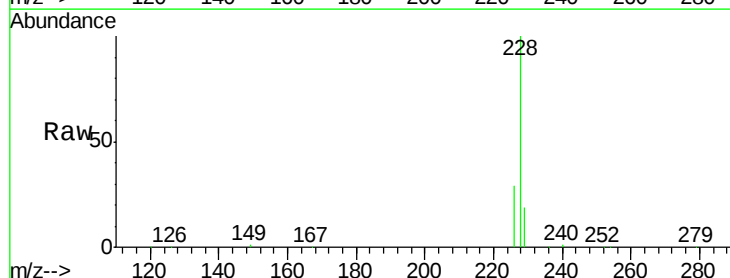


Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 254.00 (253.70 to 254.70): E  
 Ion 126.00 (125.70 to 126.70): E

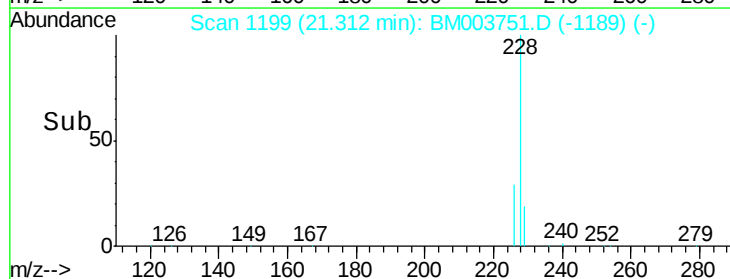
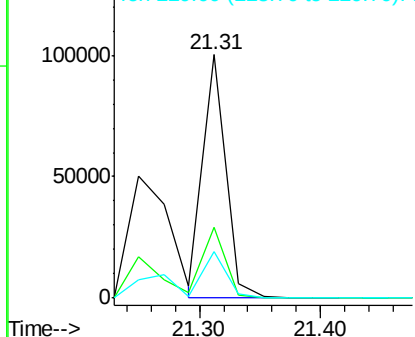


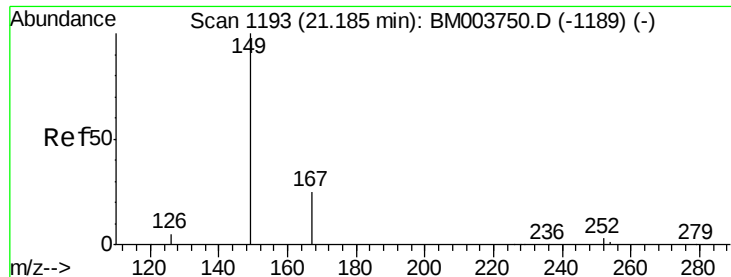
#32  
 Chrysene  
 Concen: 2.10 ng  
 RT: 21.31 min Scan# 1199  
 Delta R.T. 0.00 min  
 Lab File: BM003751.D  
 Acq: 23 Dec 2015 21:22

Tgt Ion:228 Resp: 131328  
 Ion Ratio Lower Upper  
 228 100  
 226 29.2 25.3 37.9  
 229 18.9 14.5 21.7



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





#33

Bis(2-ethylhexyl)phthalate

Concen: 2.77 ng

RT: 21.19 min Scan# 1193

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

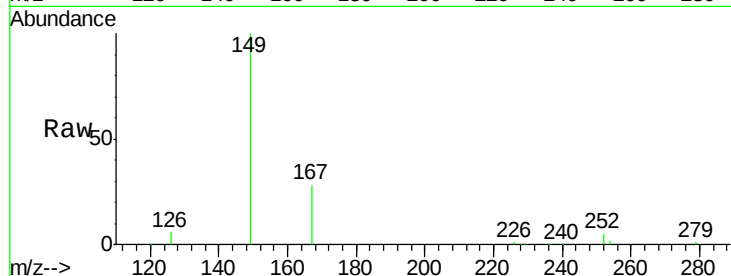
Tot Ion:149 Resp: 77477

Ion Ratio Lower Upper

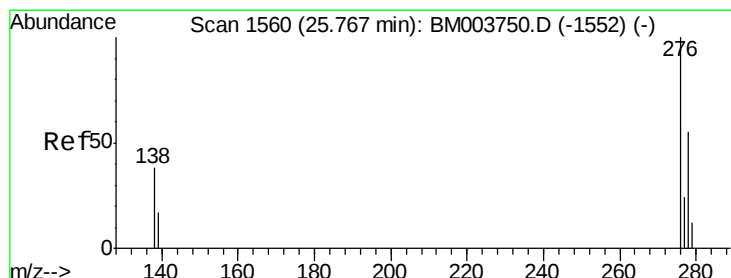
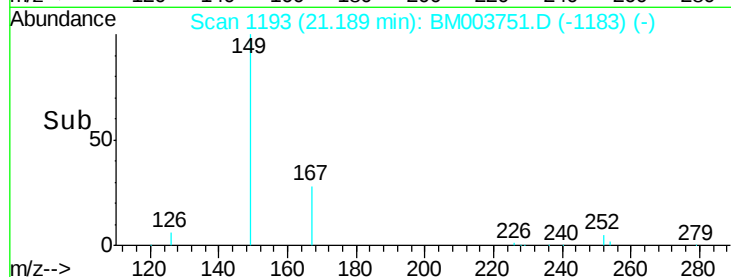
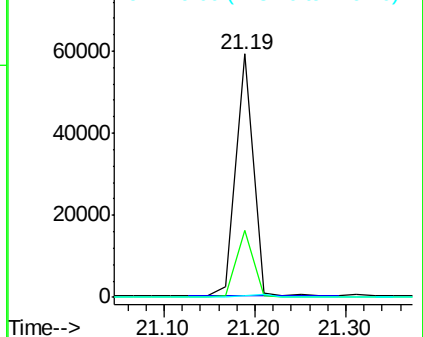
149 100

167 26.9 20.1 30.1

279 0.0 0.0 0.0



Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#34

Indeno(1,2,3-cd)pyrene

Concen: 1.75 ng

RT: 25.77 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

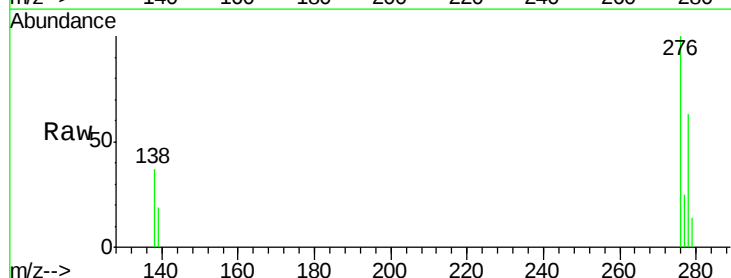
Tgt Ion:276 Resp: 82537

Ion Ratio Lower Upper

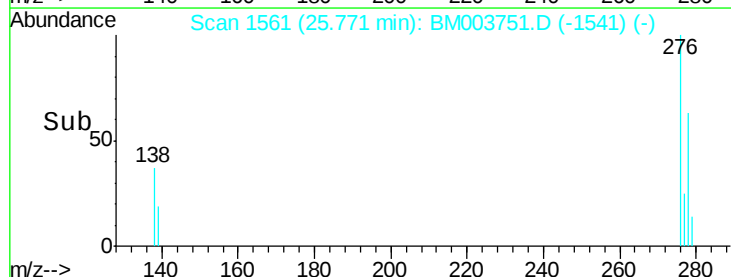
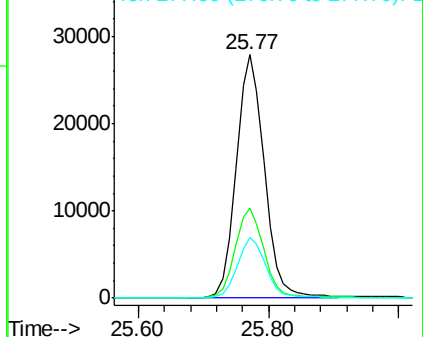
276 100

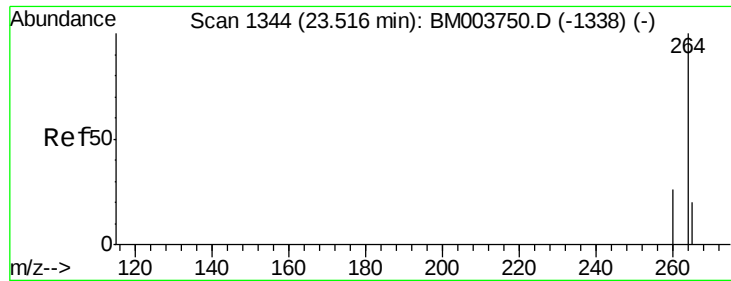
138 37.4 30.2 45.2

277 24.7 19.8 29.8



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

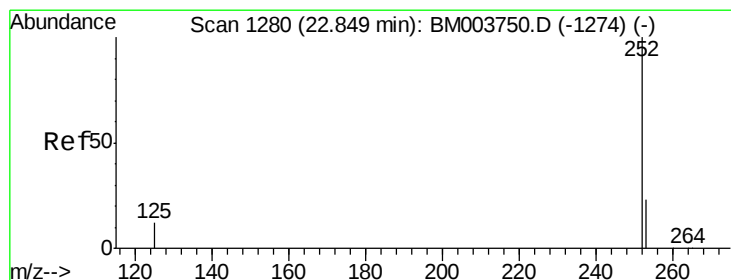
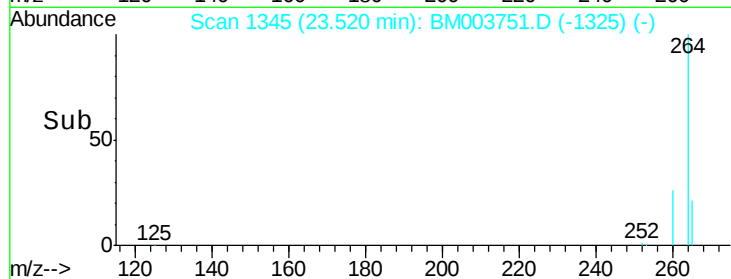
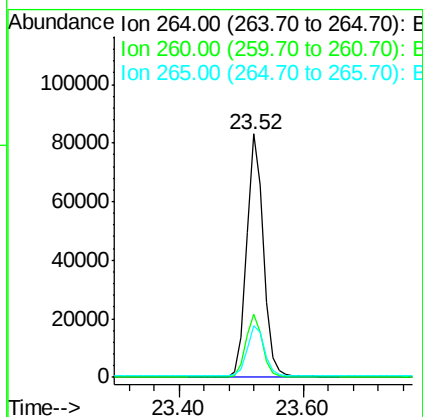
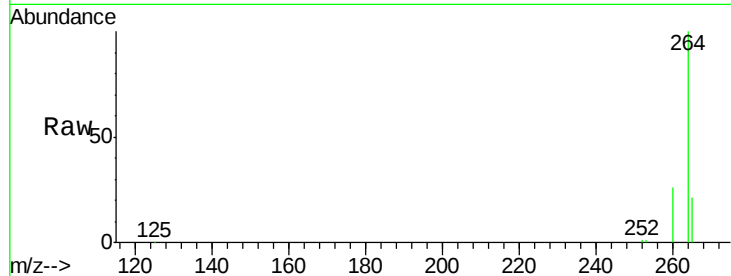




#35  
 Pervlene-d12  
 Concen: 5.00 ng  
 RT: 23.52 min Scan# 1345  
 Delta R.T. 0.00 min  
 Lab File: BM003751.D  
 Acq: 23 Dec 2015 21:22

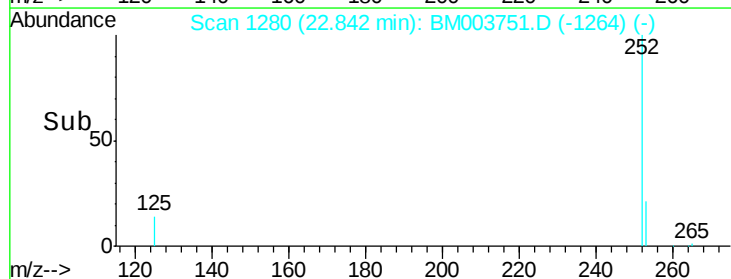
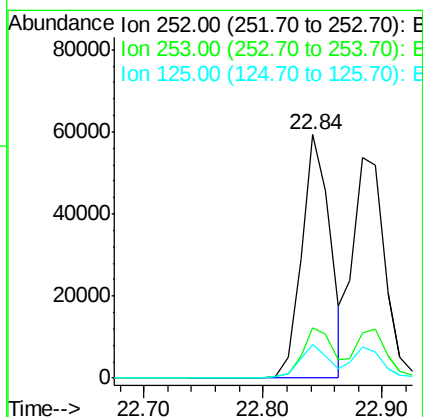
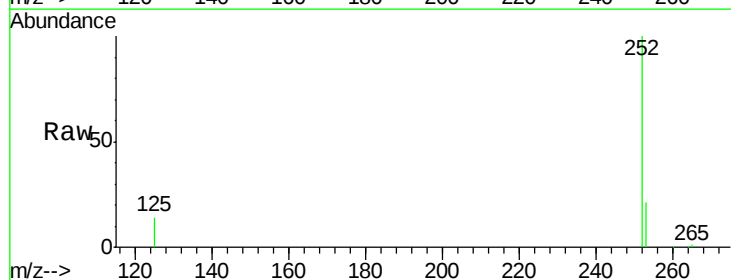
Instrument :  
 BNA\_M  
 ClientSampleId :

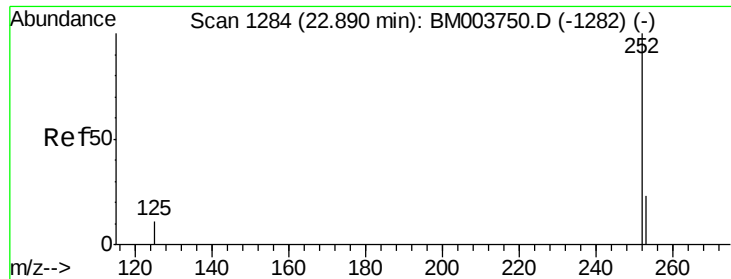
Tot Ion:264 Resp: 157510  
 Ion Ratio Lower Upper  
 264 100  
 260 26.2 21.2 31.8  
 265 21.2 16.7 25.1



#36  
 Benzo(b)fluoranthene  
 Concen: 2.04 ng  
 RT: 22.84 min Scan# 1280  
 Delta R.T. -0.01 min  
 Lab File: BM003751.D  
 Acq: 23 Dec 2015 21:22

Tgt Ion:252 Resp: 97887  
 Ion Ratio Lower Upper  
 252 100  
 253 20.9 18.8 28.2  
 125 13.7 10.2 15.4





#37

Benzo(k)fluoranthene

Concen: 2.31 ng

RT: 22.88 min Scan# 1284

Delta R.T. -0.01 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

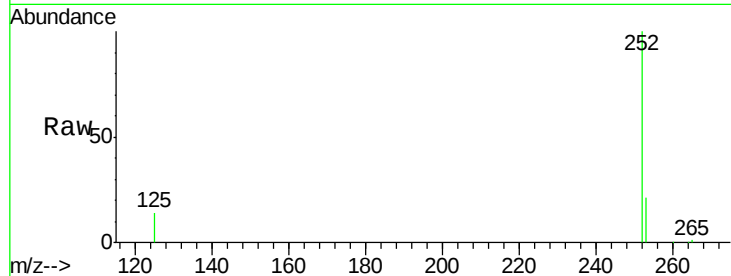
Tot Ion:252 Resp: 98916

Ion Ratio Lower Upper

252 100

253 20.7 18.3 27.5

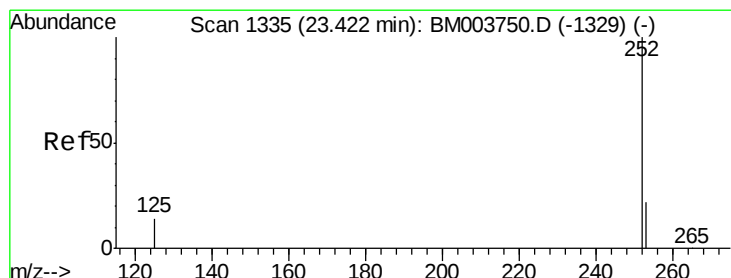
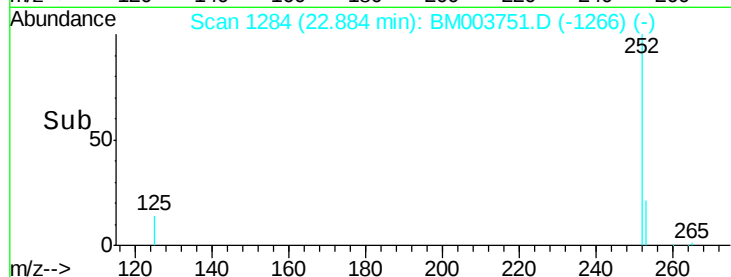
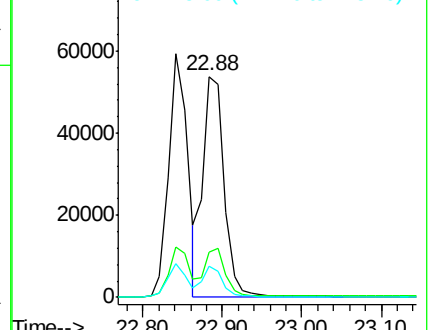
125 14.2 10.6 15.8



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Benzo(a)pyrene

Concen: 2.18 ng

RT: 23.42 min Scan# 1335

Delta R.T. -0.01 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

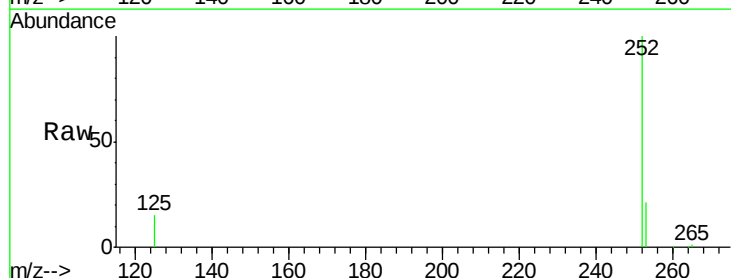
Tgt Ion:252 Resp: 86175

Ion Ratio Lower Upper

252 100

253 21.1 18.7 28.1

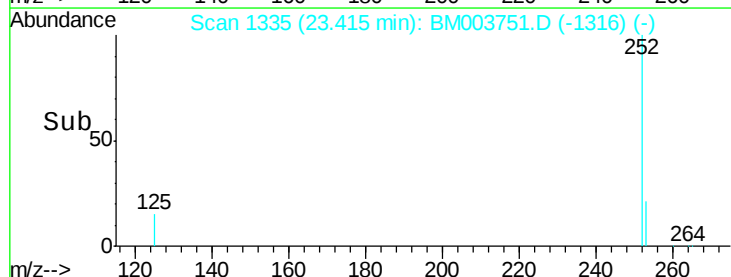
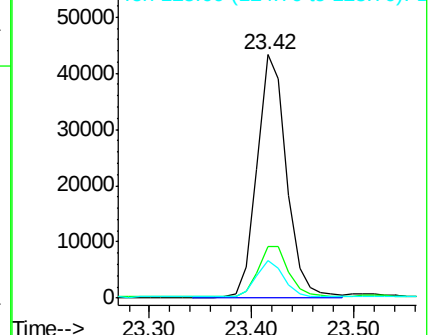
125 15.2 11.8 17.8

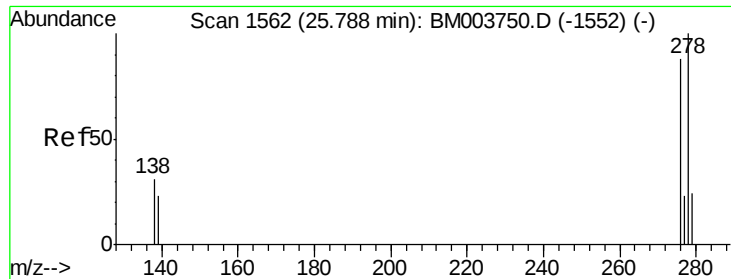


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Dibenzo(a,h)anthracene

Concen: 1.85 ng

RT: 25.78 min Scan# 1562

Delta R.T. -0.01 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

Instrument :

BNA\_M

ClientSampleId :

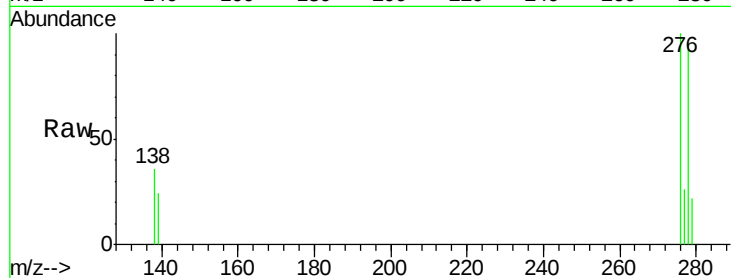
Tot Ion:278 Resp: 66468

Ion Ratio Lower Upper

278 100

139 25.3 19.0 28.6

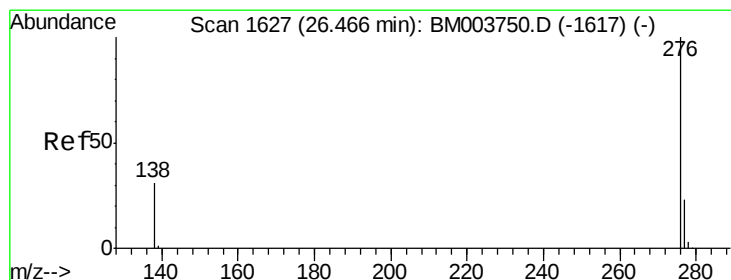
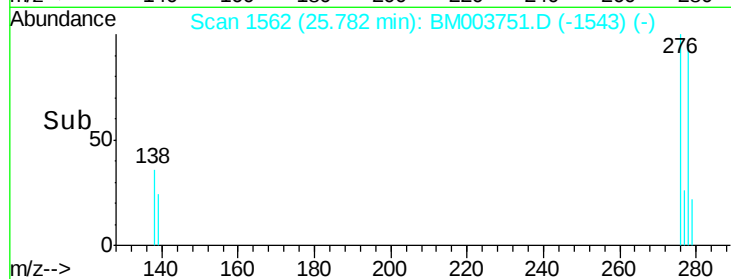
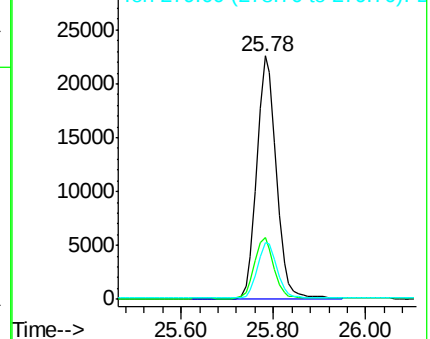
279 23.5 19.6 29.4



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



#40

Benzo(g,h,i)perylene

Concen: 1.81 ng

RT: 26.46 min Scan# 1627

Delta R.T. -0.01 min

Lab File: BM003751.D

Acq: 23 Dec 2015 21:22

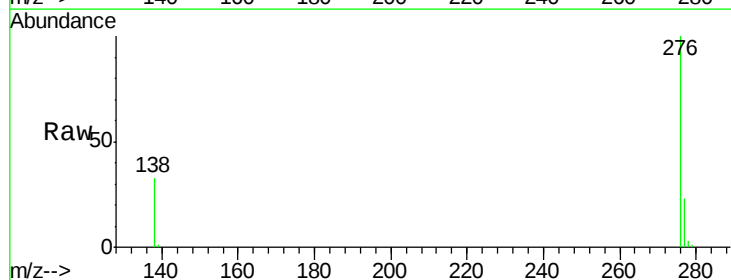
Tgt Ion:276 Resp: 68873

Ion Ratio Lower Upper

276 100

277 23.2 19.1 28.7

138 33.2 25.0 37.4



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

