

Data Path : Z:\HPCHEM1\BNA M\DATA\BM122315\  
 Data File : BM003734.D  
 Acq On : 23 Dec 2015 06:56  
 Operator : UM/SJ  
 Sample : G4869-14  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Dec 23 10:35:08 2015  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\8270-BM120915.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 09 18:52:47 2015  
 Response via : Initial Calibration

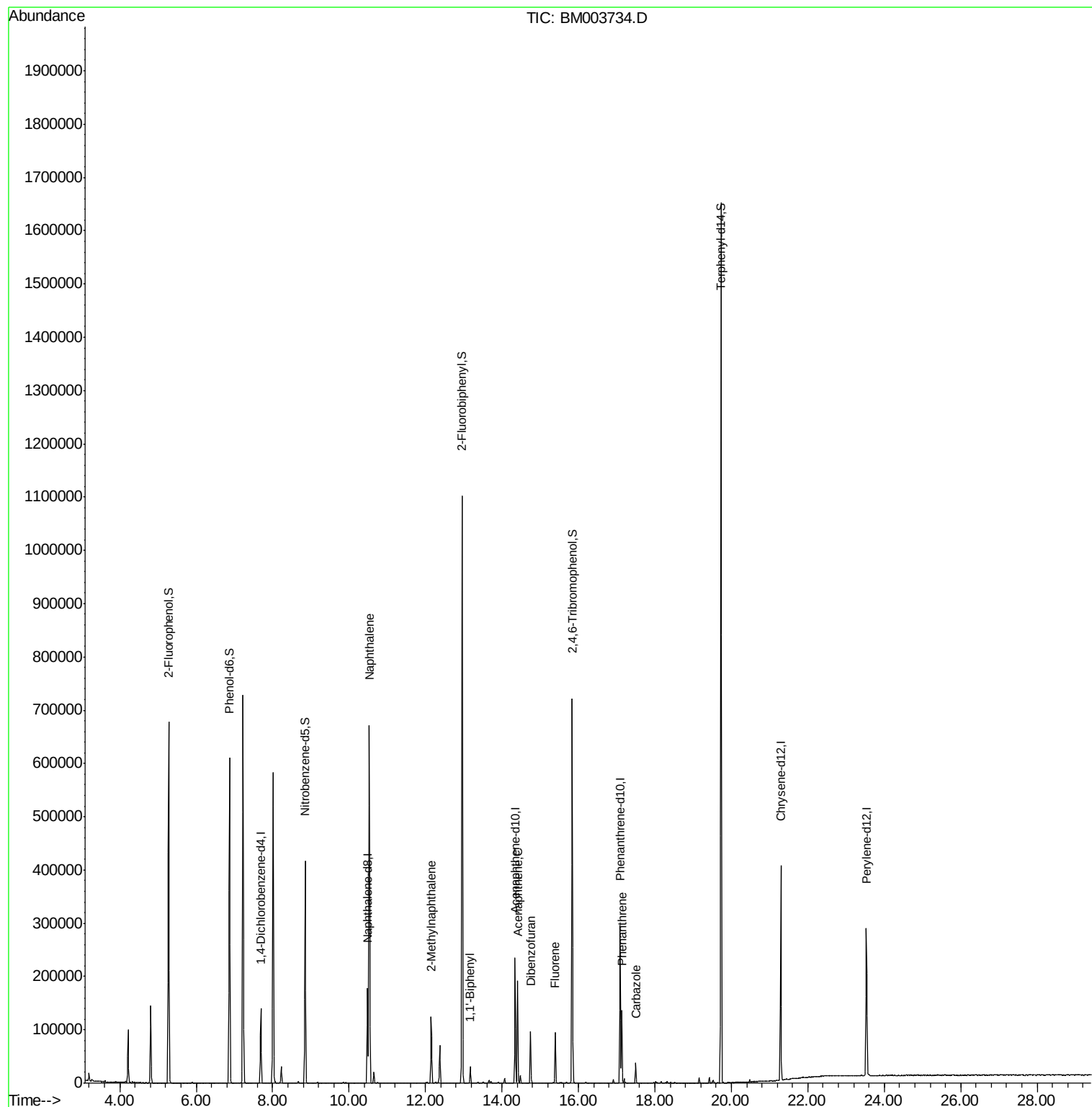
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.69  | 152  | 39246    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8          | 10.48 | 136  | 153089   | 20.00  | ng    | -0.04    |
| 38) Acenaphthene-d10        | 14.34 | 164  | 77757    | 20.00  | ng    | -0.03    |
| 63) Phenanthrene-d10        | 17.09 | 188  | 167958   | 20.00  | ng    | -0.03    |
| 75) Chrysene-d12            | 21.29 | 240  | 184117   | 20.00  | ng    | -0.03    |
| 86) Perylene-d12            | 23.53 | 264  | 187971   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.28  | 112  | 308274   | 139.65 | ng    | -0.02    |
| 7) Phenol-d6                | 6.87  | 99   | 366893   | 119.69 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 8.85  | 82   | 253107   | 102.51 | ng    | -0.03    |
| 41) 2,4,6-Tribromophenol    | 15.84 | 330  | 116849   | 150.47 | ng    | -0.03    |
| 44) 2-Fluorobiphenyl        | 12.96 | 172  | 578484   | 101.36 | ng    | -0.04    |
| 78) Terphenyl-d14           | 19.73 | 244  | 706454   | 90.49  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 10.53 | 128  | 592468   | 73.96  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 12.15 | 142  | 63212    | 11.50  | ng    | 97       |
| 45) 1,1'-Biphenyl           | 13.17 | 154  | 18608    | 2.70   | ng    | 99       |
| 51) Acenaphthene            | 14.41 | 154  | 71494    | 14.61  | ng    | 98       |
| 54) Dibenzofuran            | 14.74 | 168  | 67755    | 9.59   | ng    | 95       |
| 57) Fluorene                | 15.39 | 166  | 44866    | 7.66   | ng    | 97       |
| 70) Phenanthrene            | 17.13 | 178  | 83026    | 8.81   | ng    | 100      |
| 72) Carbazole               | 17.50 | 167  | 26362    | 3.23   | ng    | 99       |

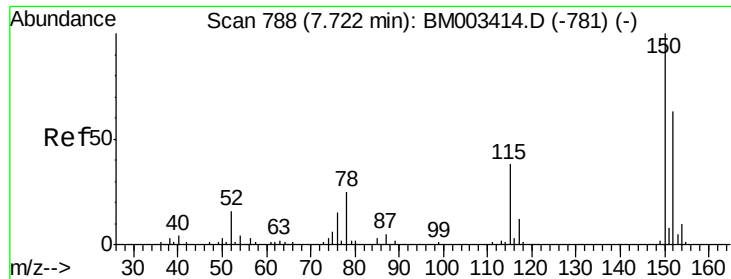
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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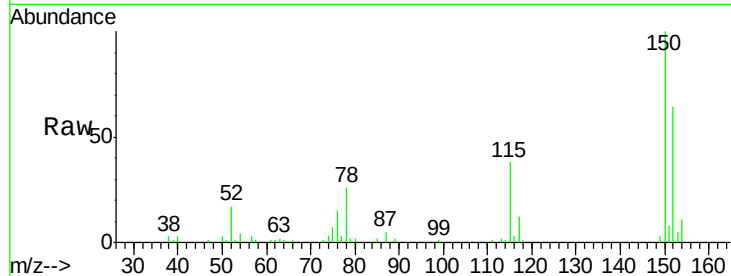


#1

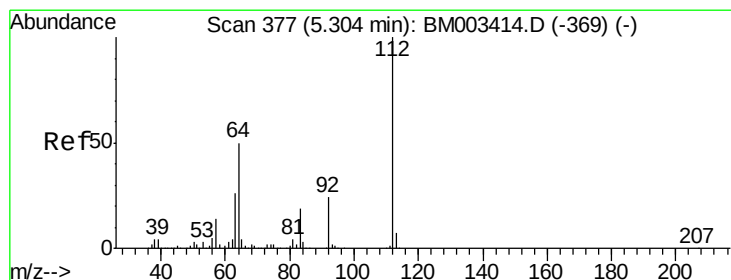
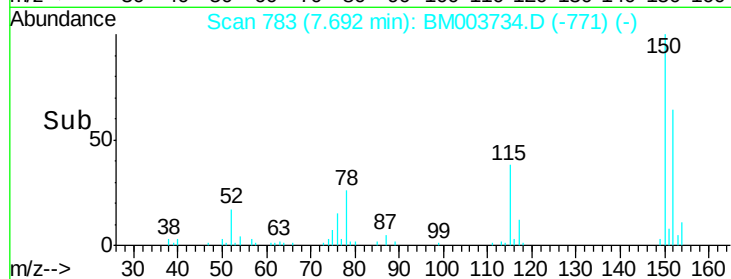
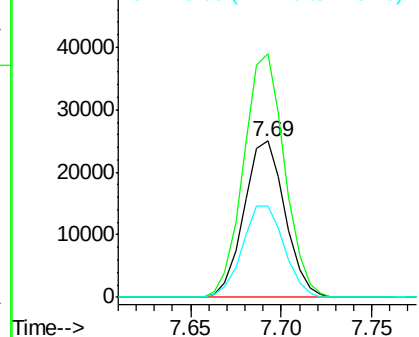
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.69 min Scan# 783  
Delta R.T. -0.03 min  
Lab File: BM003734.D  
Acq: 23 Dec 2015 06:56

Instrument :  
BNA\_M  
ClientSampleId :

Tot Ion:152 Resp: 39246  
Ion Ratio Lower Upper  
152 100  
150 156.1 119.5 179.3  
115 58.6 43.0 64.4



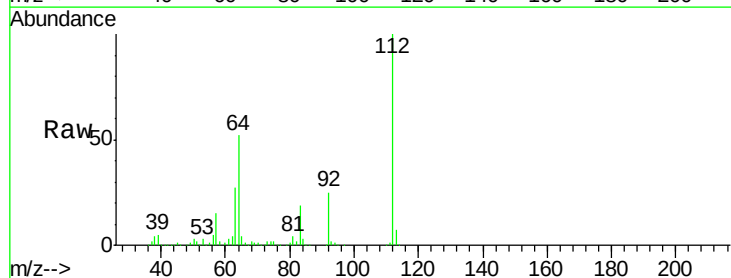
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



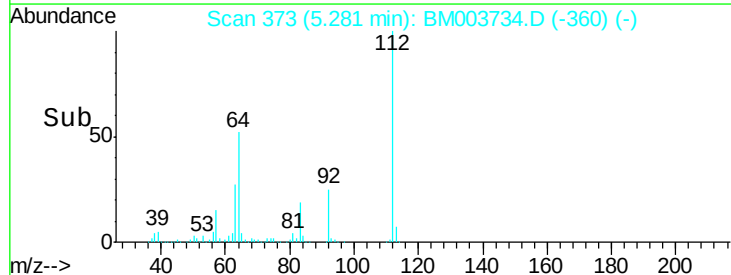
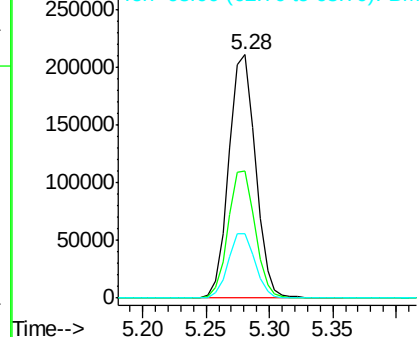
#5

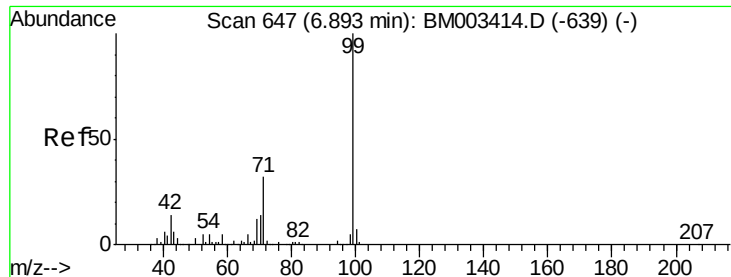
2-Fluorophenol  
Concen: 139.65 ng  
RT: 5.28 min Scan# 373  
Delta R.T. -0.02 min  
Lab File: BM003734.D  
Acq: 23 Dec 2015 06:56

Tgt Ion:112 Resp: 308274  
Ion Ratio Lower Upper  
112 100  
64 52.2 38.6 57.8  
63 26.7 19.3 28.9



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





#7

Phenol-d6

Concen: 119.69 ng

RT: 6.87 min Scan# 643

Delta R.T. -0.02 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

Instrument :

BNA\_M

ClientSampleId :

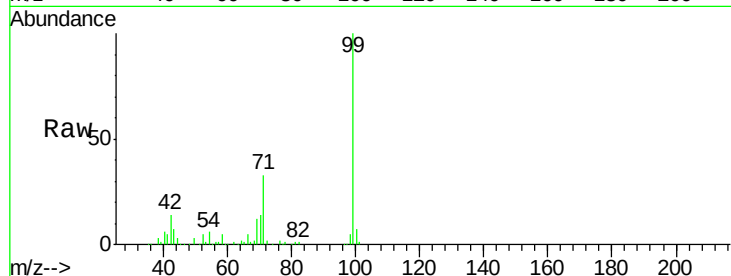
Tot Ion: 99 Resp: 366893

Ion Ratio Lower Upper

99 100

42 14.0 11.0 16.4

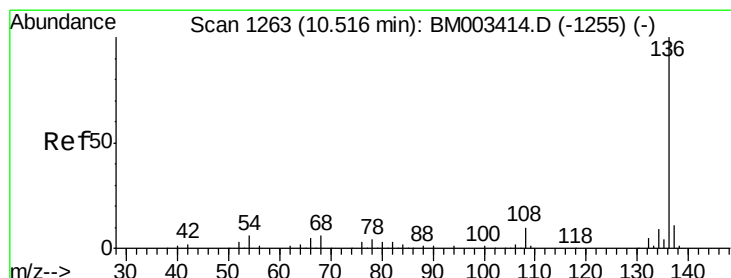
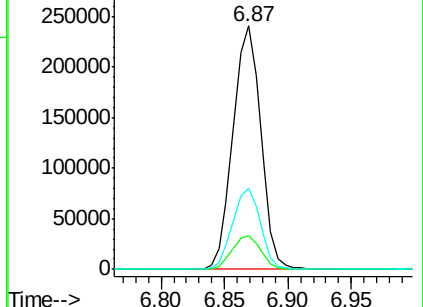
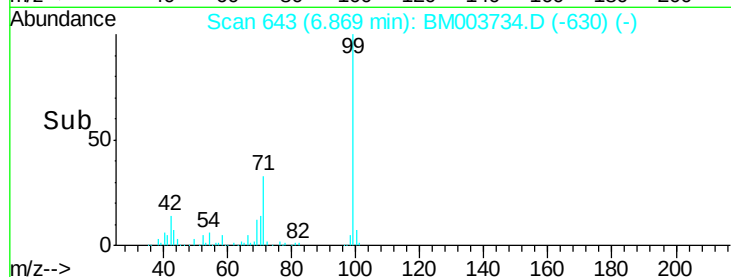
71 33.1 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BM003734.D (-639) (-)

Ion 42.00 (41.70 to 42.70): BM003734.D (-639) (-)

Ion 71.00 (70.70 to 71.70): BM003734.D (-639) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.48 min Scan# 1257

Delta R.T. -0.04 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

Tgt Ion: 136 Resp: 153089

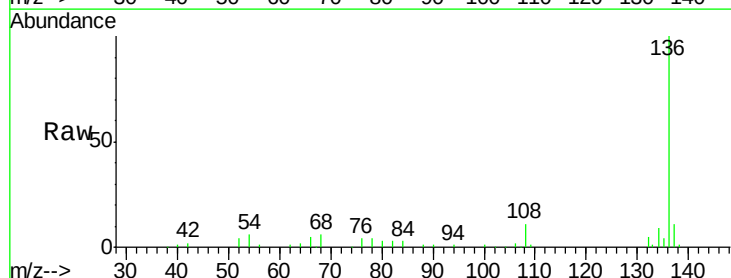
Ion Ratio Lower Upper

136 100

137 11.1 8.7 13.1

54 6.4 4.6 6.8

68 5.9 3.7 5.5#

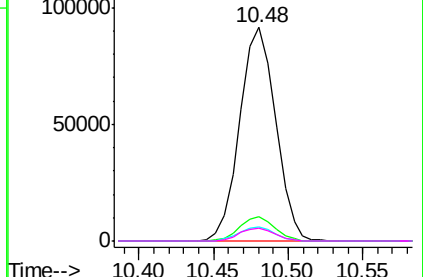
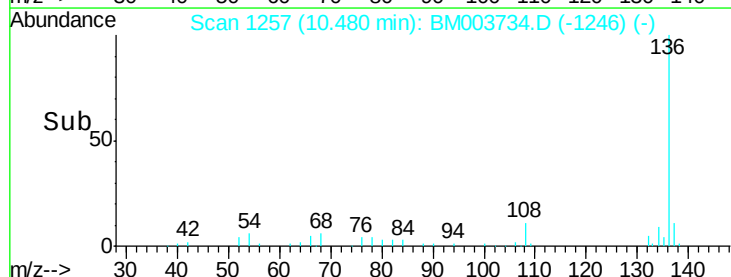


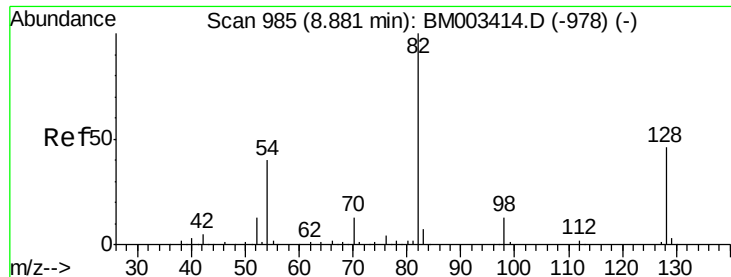
Abundance Ion 136.00 (135.70 to 136.70): BM003734.D (-1246) (-)

Ion 137.00 (136.70 to 137.70): BM003734.D (-1246) (-)

Ion 54.00 (53.70 to 54.70): BM003734.D (-1246) (-)

Ion 68.00 (67.70 to 68.70): BM003734.D (-1246) (-)

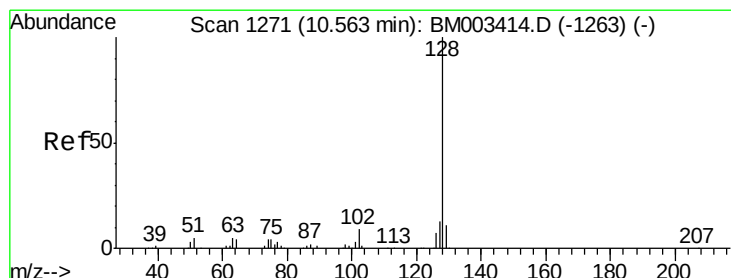
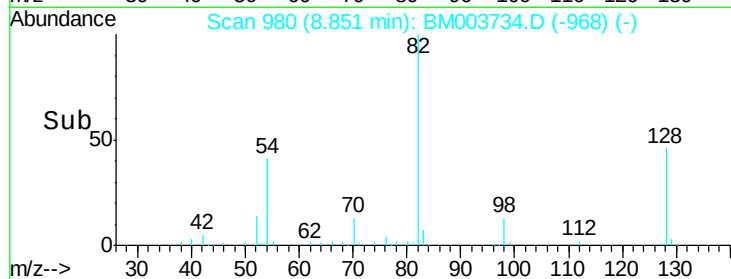
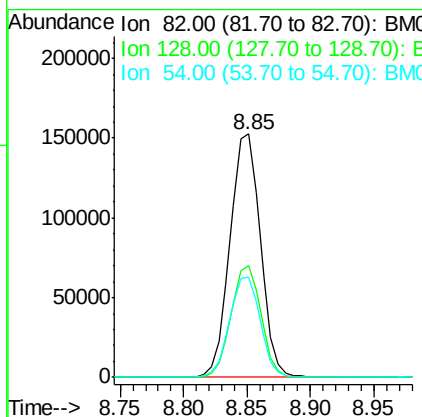
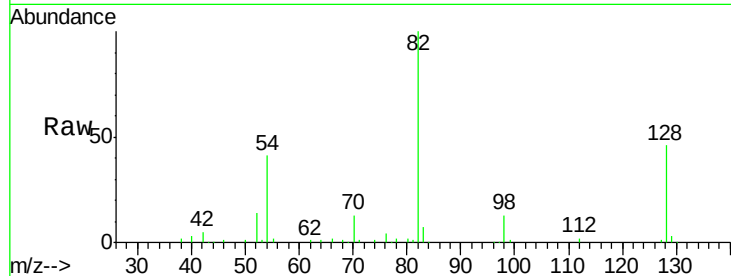




#23  
 Nitrobenzene-d5  
 Concen: 102.51 ng  
 RT: 8.85 min Scan# 980  
 Delta R.T. -0.03 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

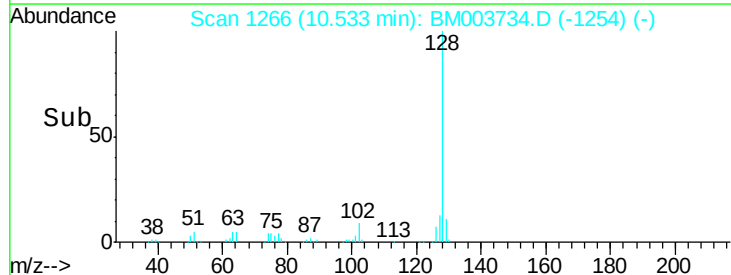
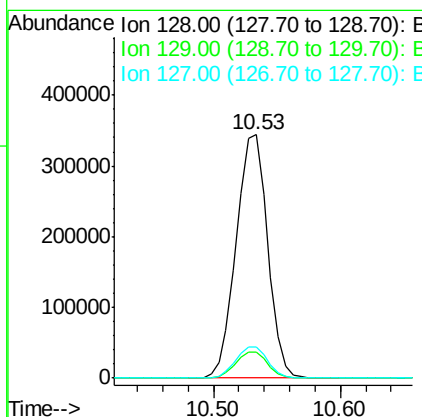
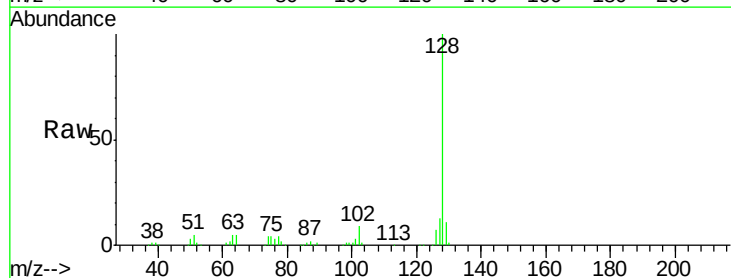
Instrument :  
 BNA\_M  
 ClientSampleId :

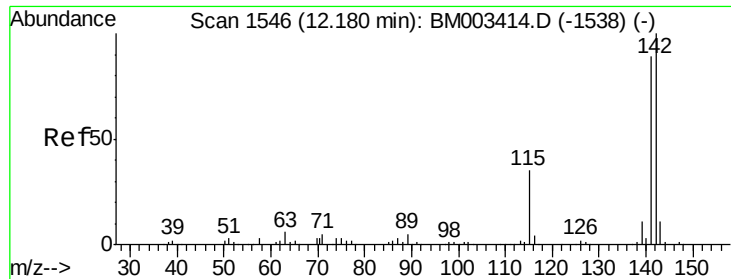
| Tot Ion   | 82    | Resp  | 253107 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 45.9  | 32.8  | 49.2   |
| 54        | 41.3  | 40.6  | 60.8   |



#31  
 Naphthalene  
 Concen: 73.96 ng  
 RT: 10.53 min Scan# 1266  
 Delta R.T. -0.03 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

| Tgt Ion   | 128   | Resp  | 592468 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 10.8  | 8.9   | 13.3   |
| 127       | 12.9  | 10.4  | 15.6   |

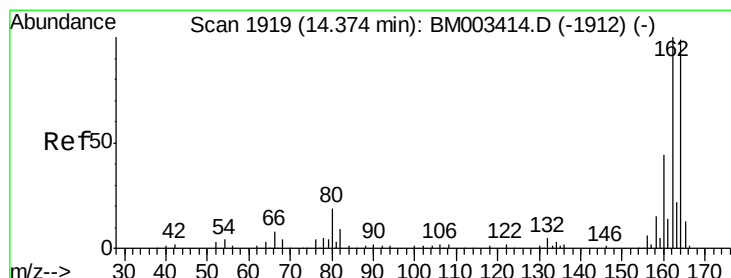
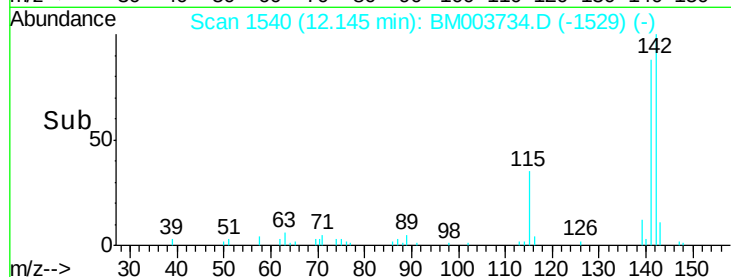
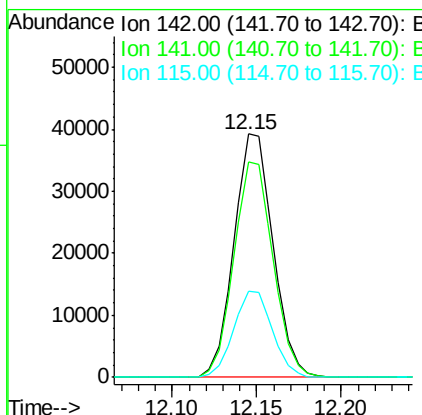
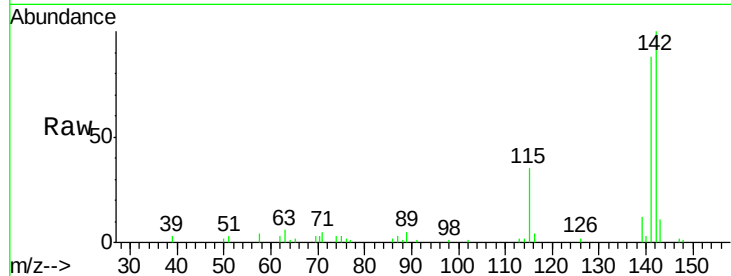




#37  
 2-Methylnaphthalene  
 Concen: 11.50 ng  
 RT: 12.15 min Scan# 1540  
 Delta R.T. -0.04 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

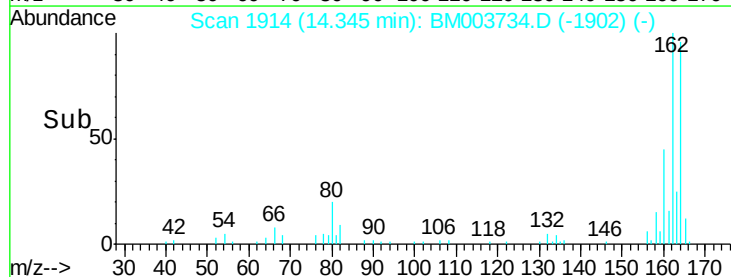
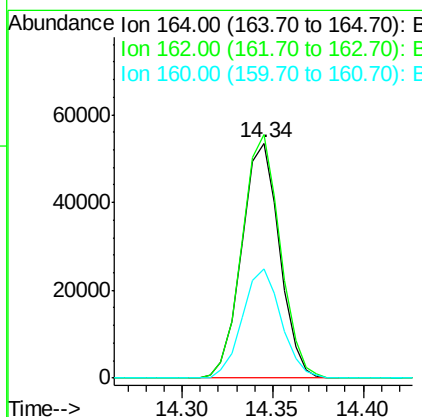
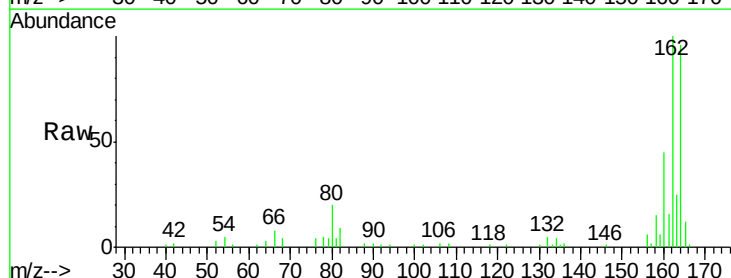
Instrument :  
 BNA\_M  
 ClientSampleId :

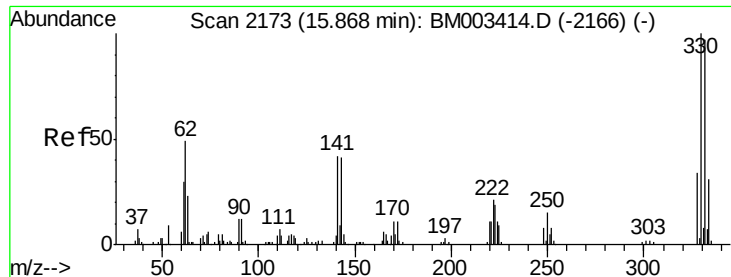
Tot Ion:142 Resp: 63212  
 Ion Ratio Lower Upper  
 142 100  
 141 88.3 71.9 107.9  
 115 35.5 25.4 38.0



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.34 min Scan# 1914  
 Delta R.T. -0.03 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

Tgt Ion:164 Resp: 77757  
 Ion Ratio Lower Upper  
 164 100  
 162 103.7 82.4 123.6  
 160 46.4 35.8 53.6





#41

2,4,6-Tribromophenol

Concen: 150.47 ng

RT: 15.84 min Scan# 2168

Delta R.T. -0.03 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

Instrument :

BNA\_M

ClientSampleId :

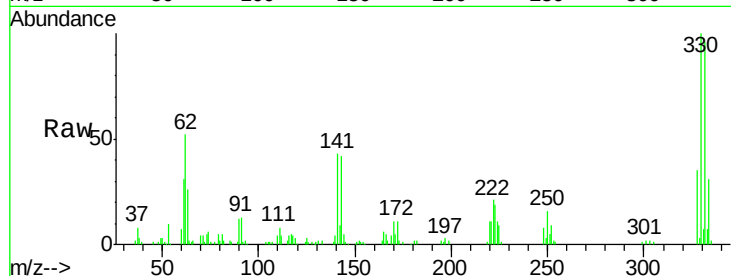
Tot Ion:330 Resp: 116849

Ion Ratio Lower Upper

330 100

332 96.6 0.0 0.0#

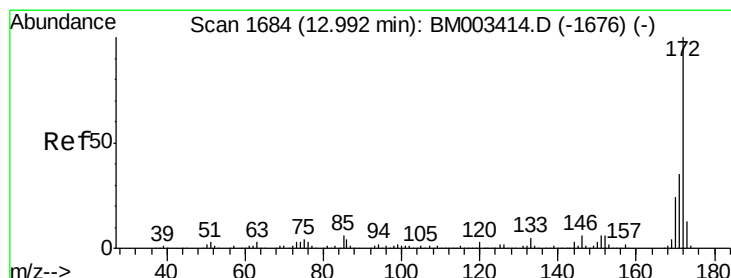
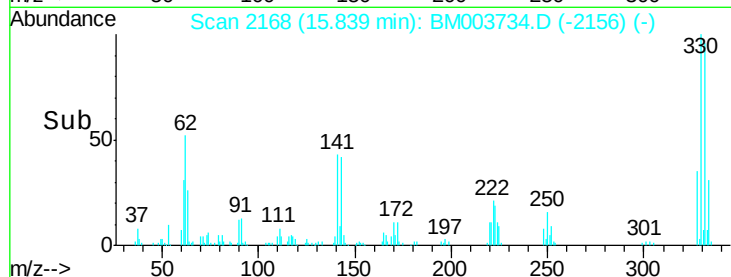
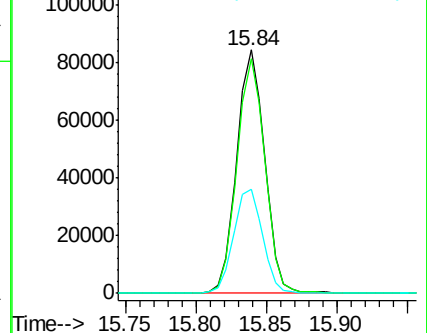
141 43.9 0.0 0.0#



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



#44

2-Fluorobiphenyl

Concen: 101.36 ng

RT: 12.96 min Scan# 1678

Delta R.T. -0.04 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

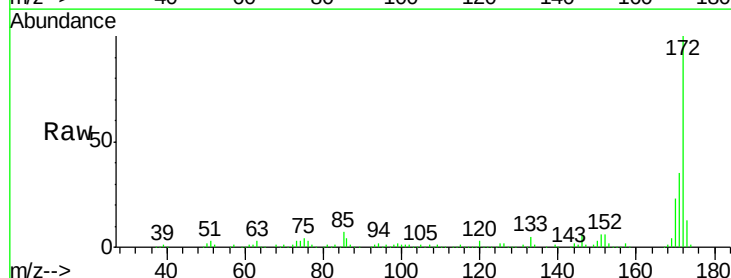
Tgt Ion:172 Resp: 578484

Ion Ratio Lower Upper

172 100

171 34.8 28.5 42.7

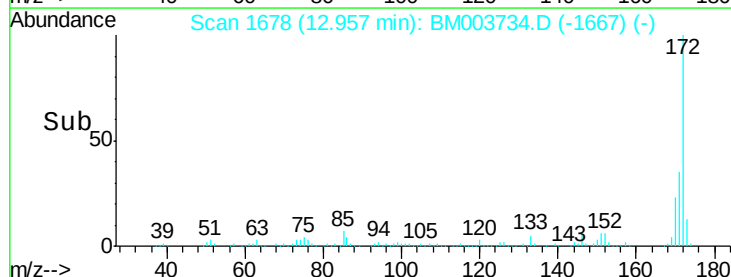
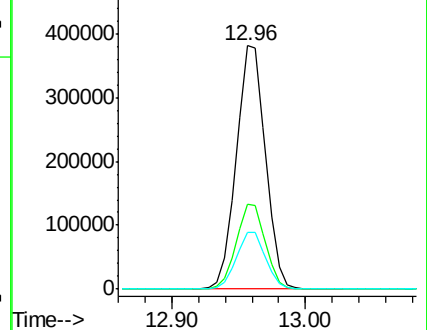
170 23.5 18.8 28.2

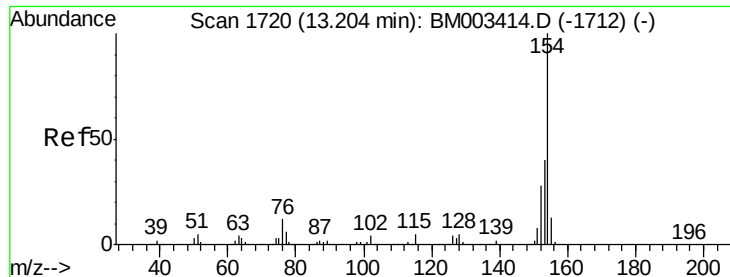


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

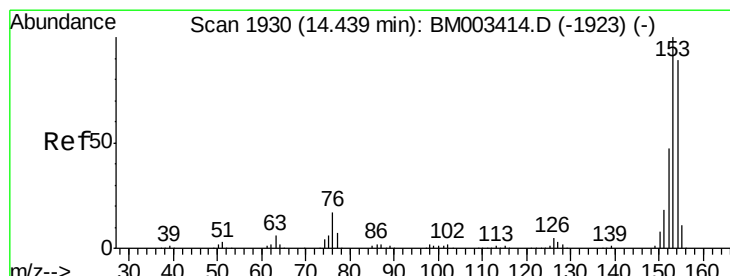
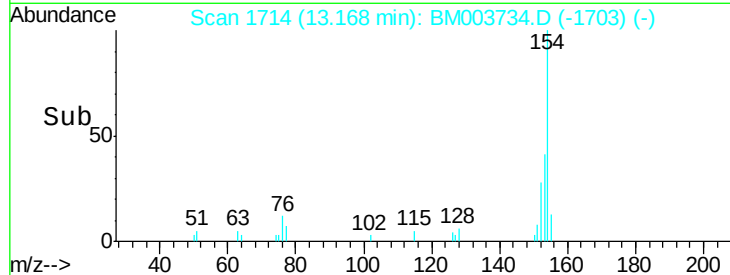
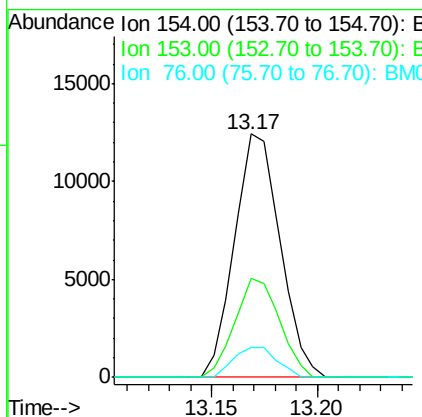
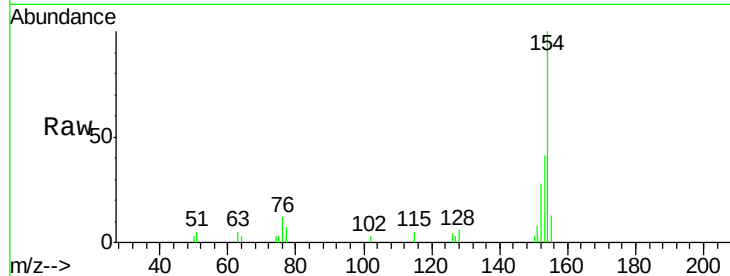




#45  
 1,1'-Biphenyl  
 Concen: 2.70 ng  
 RT: 13.17 min Scan# 1714  
 Delta R.T. -0.04 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

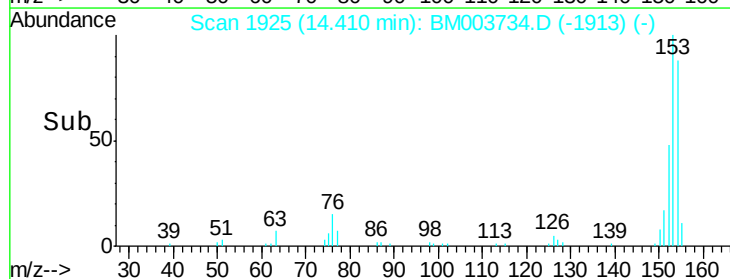
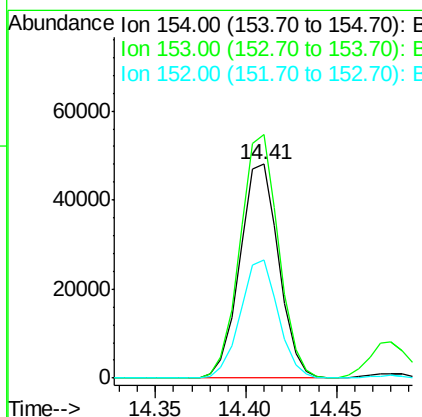
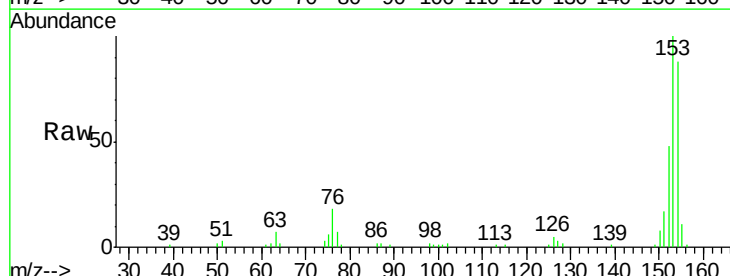
Instrument :  
 BNA\_M  
 ClientSampleId :

Tot Ion:154 Resp: 18608  
 Ion Ratio Lower Upper  
 154 100  
 153 40.7 20.7 60.7  
 76 12.5 0.0 30.9

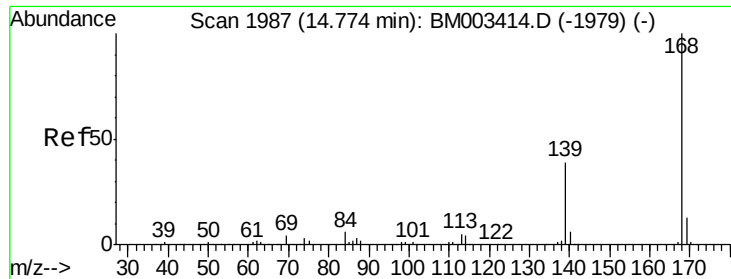


#51  
 Acenaphthene  
 Concen: 14.61 ng  
 RT: 14.41 min Scan# 1925  
 Delta R.T. -0.03 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

Tgt Ion:154 Resp: 71494  
 Ion Ratio Lower Upper  
 154 100  
 153 113.8 90.0 135.0  
 152 55.2 42.6 63.8







#54

Dibenzofuran

Concen: 9.59 ng

RT: 14.74 min Scan# 1982

Delta R.T. -0.03 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

Instrument :

BNA\_M

ClientSampleId :

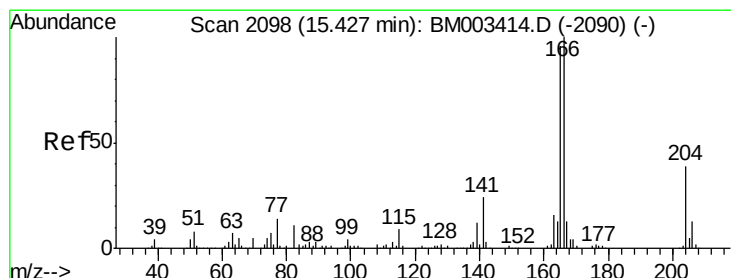
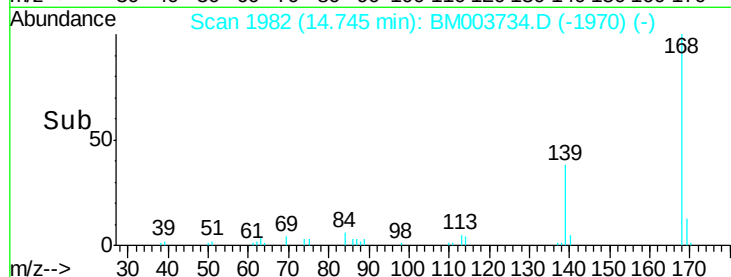
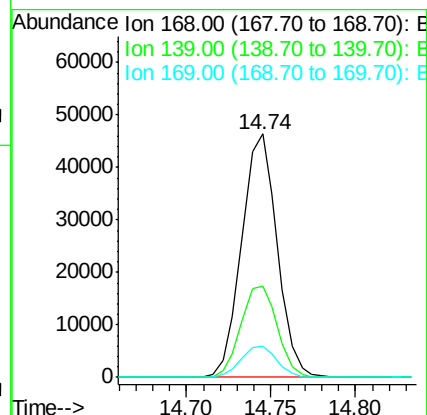
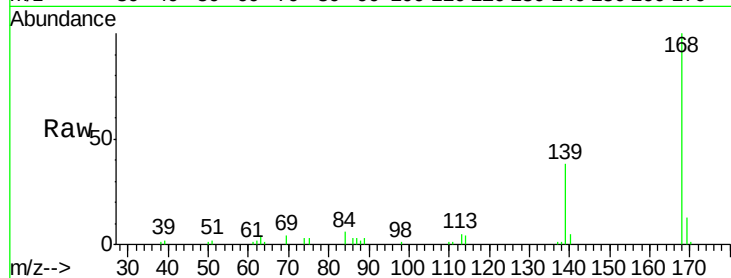
Tot Ion:168 Resp: 67755

Ion Ratio Lower Upper

168 100

139 37.6 27.3 40.9

169 12.7 10.6 16.0



#57

Fluorene

Concen: 7.66 ng

RT: 15.39 min Scan# 2092

Delta R.T. -0.04 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

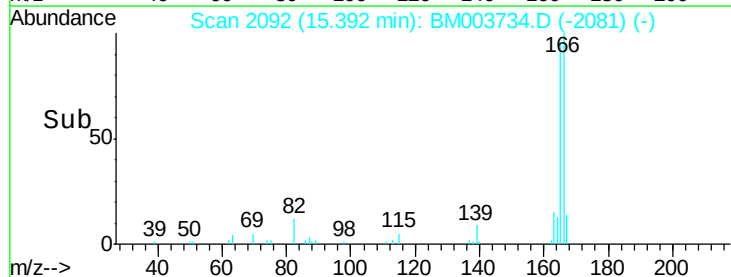
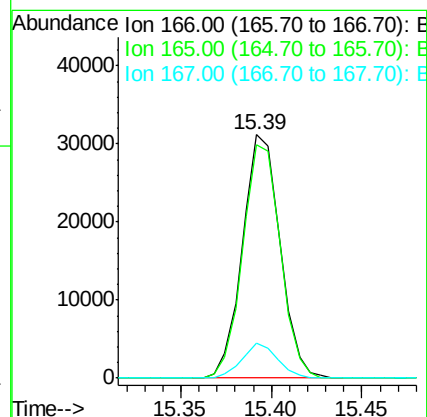
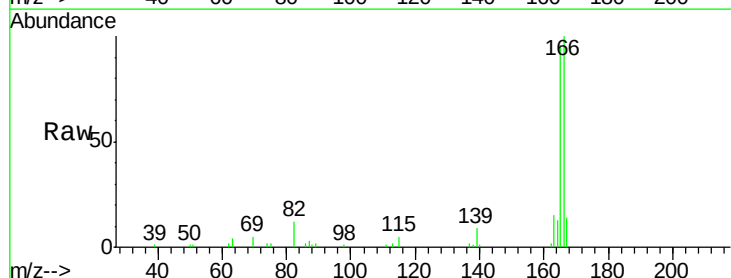
Tgt Ion:166 Resp: 44866

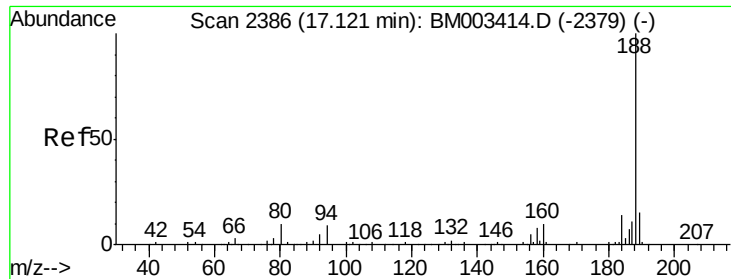
Ion Ratio Lower Upper

166 100

165 95.7 79.0 118.4

167 14.2 10.3 15.5

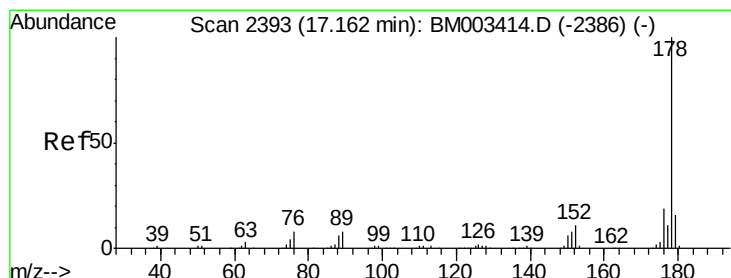
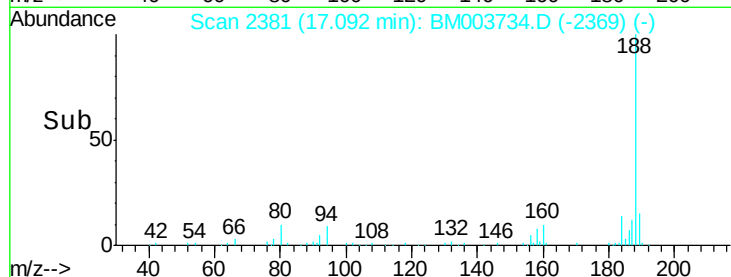
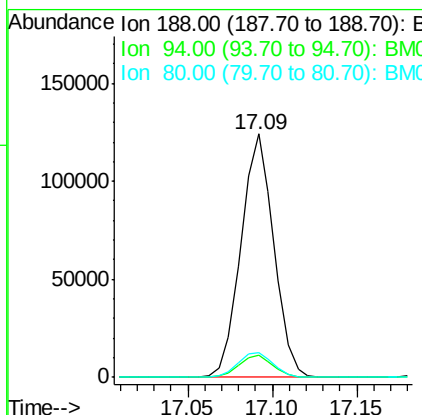
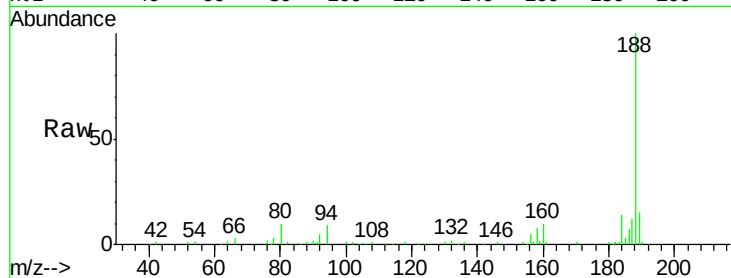




#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 17.09 min Scan# 2381  
 Delta R.T. -0.03 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

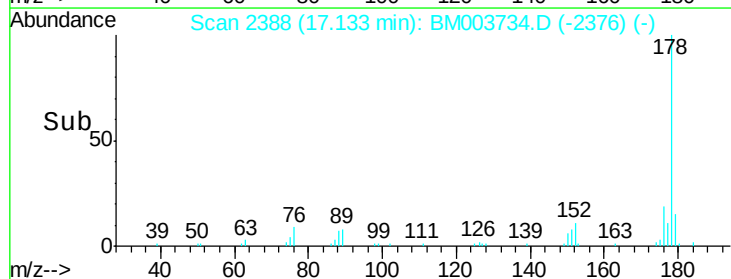
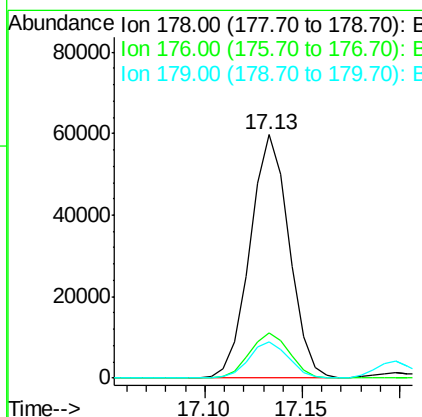
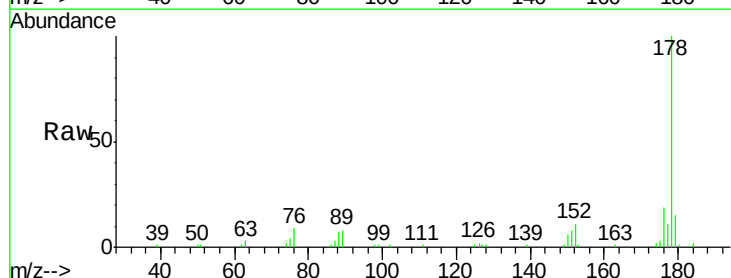
Instrument :  
 BNA\_M  
 ClientSampleId :

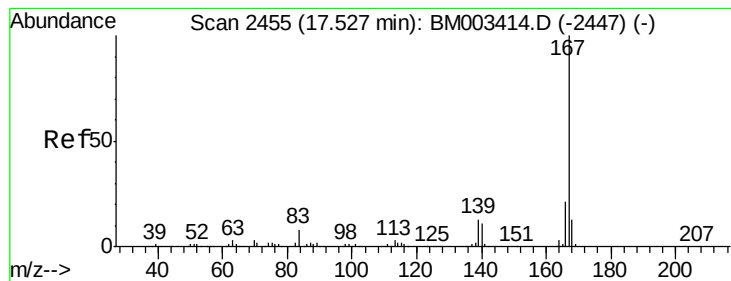
Tot Ion:188 Resp: 167958  
 Ion Ratio Lower Upper  
 188 100  
 94 9.1 8.7 13.1  
 80 10.4 9.3 13.9



#70  
 Phenanthrene  
 Concen: 8.81 ng  
 RT: 17.13 min Scan# 2388  
 Delta R.T. -0.03 min  
 Lab File: BM003734.D  
 Acq: 23 Dec 2015 06:56

Tgt Ion:178 Resp: 83026  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 15.2 22.8  
 179 15.1 12.1 18.1





#72

Carbazole

Concen: 3.23 ng

RT: 17.50 min Scan# 2450

Delta R.T. -0.03 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

Instrument :

BNA\_M

ClientSampled :

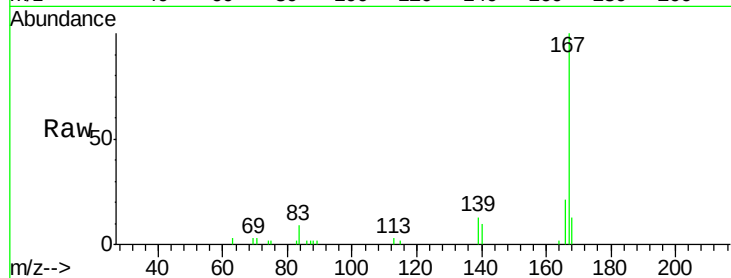
Tot Ion:167 Resp: 26362

Ion Ratio Lower Upper

167 100

166 20.9 17.2 25.8

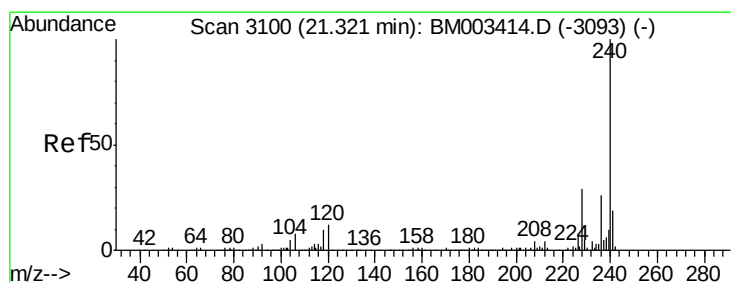
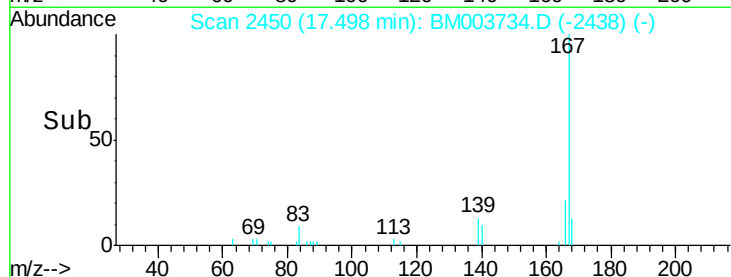
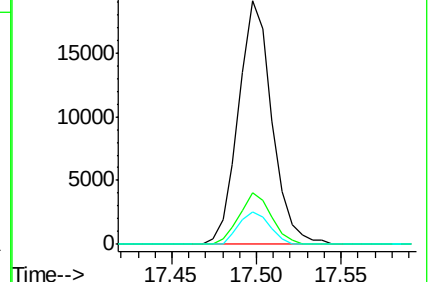
139 13.2 10.8 16.2



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.29 min Scan# 3095

Delta R.T. -0.03 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

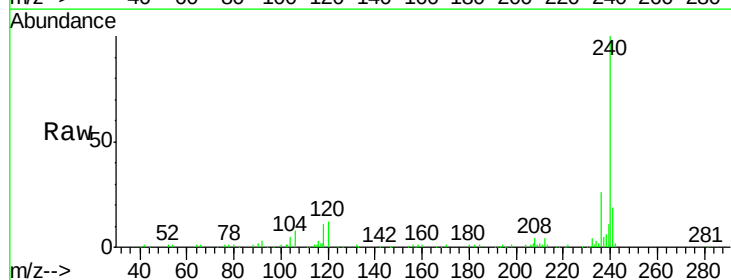
Tgt Ion:240 Resp: 184117

Ion Ratio Lower Upper

240 100

120 12.1 8.2 12.2

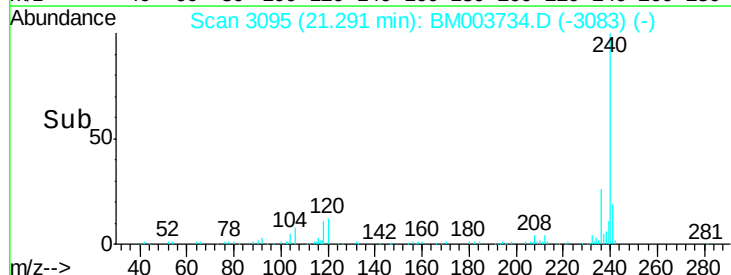
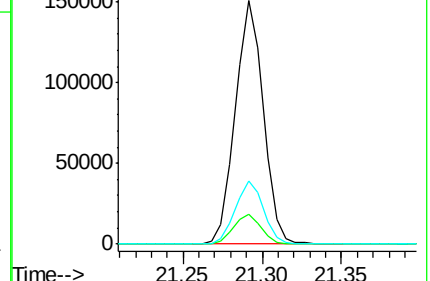
236 25.9 20.0 30.0

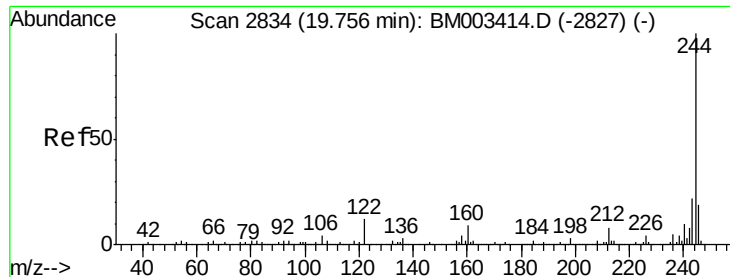


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 90.49 ng

RT: 19.73 min Scan# 2829

Delta R.T. -0.03 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

Instrument :

BNA\_M

ClientSampleId :

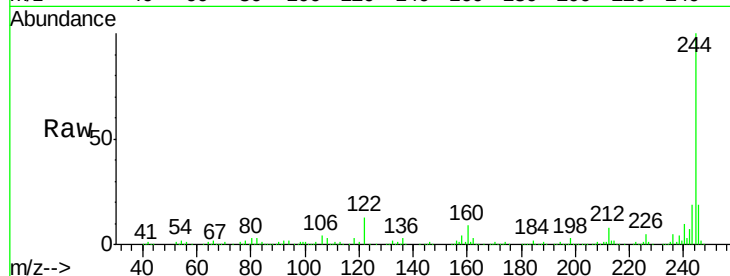
Tot Ion:244 Resp: 706454

Ion Ratio Lower Upper

244 100

212 7.9 4.9 7.3#

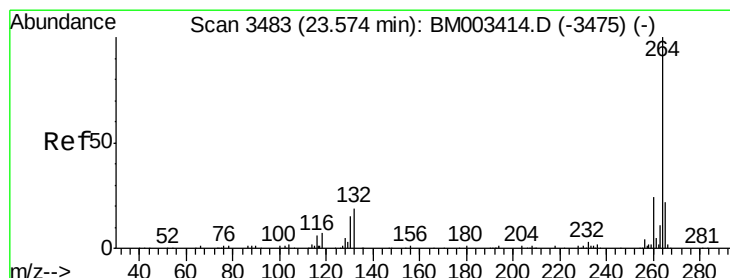
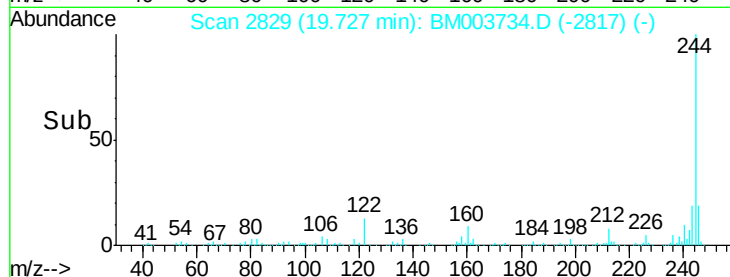
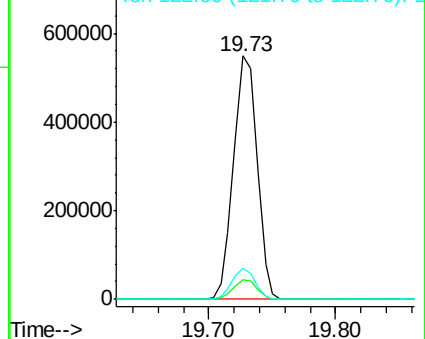
122 12.7 6.2 9.4#



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 23.53 min Scan# 3476

Delta R.T. -0.04 min

Lab File: BM003734.D

Acq: 23 Dec 2015 06:56

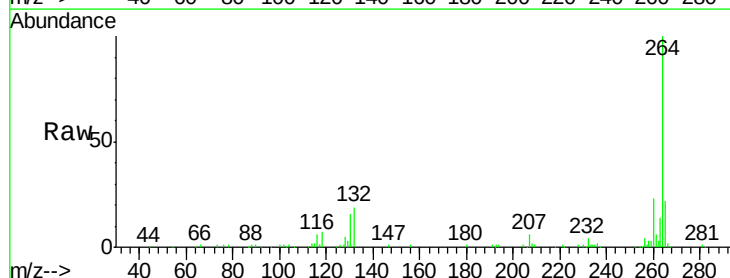
Tgt Ion:264 Resp: 187971

Ion Ratio Lower Upper

264 100

260 23.2 18.6 27.8

265 21.6 17.3 25.9



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

