

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072616\  
 Data File : BF089308.D  
 Acq On : 26 Jul 2016 12:36  
 Operator : UM/SJ  
 Sample : H4207-10  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EW-2

Quant Time: Jul 26 14:37:53 2016  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 25 16:56:43 2016  
 Response via : Initial Calibration

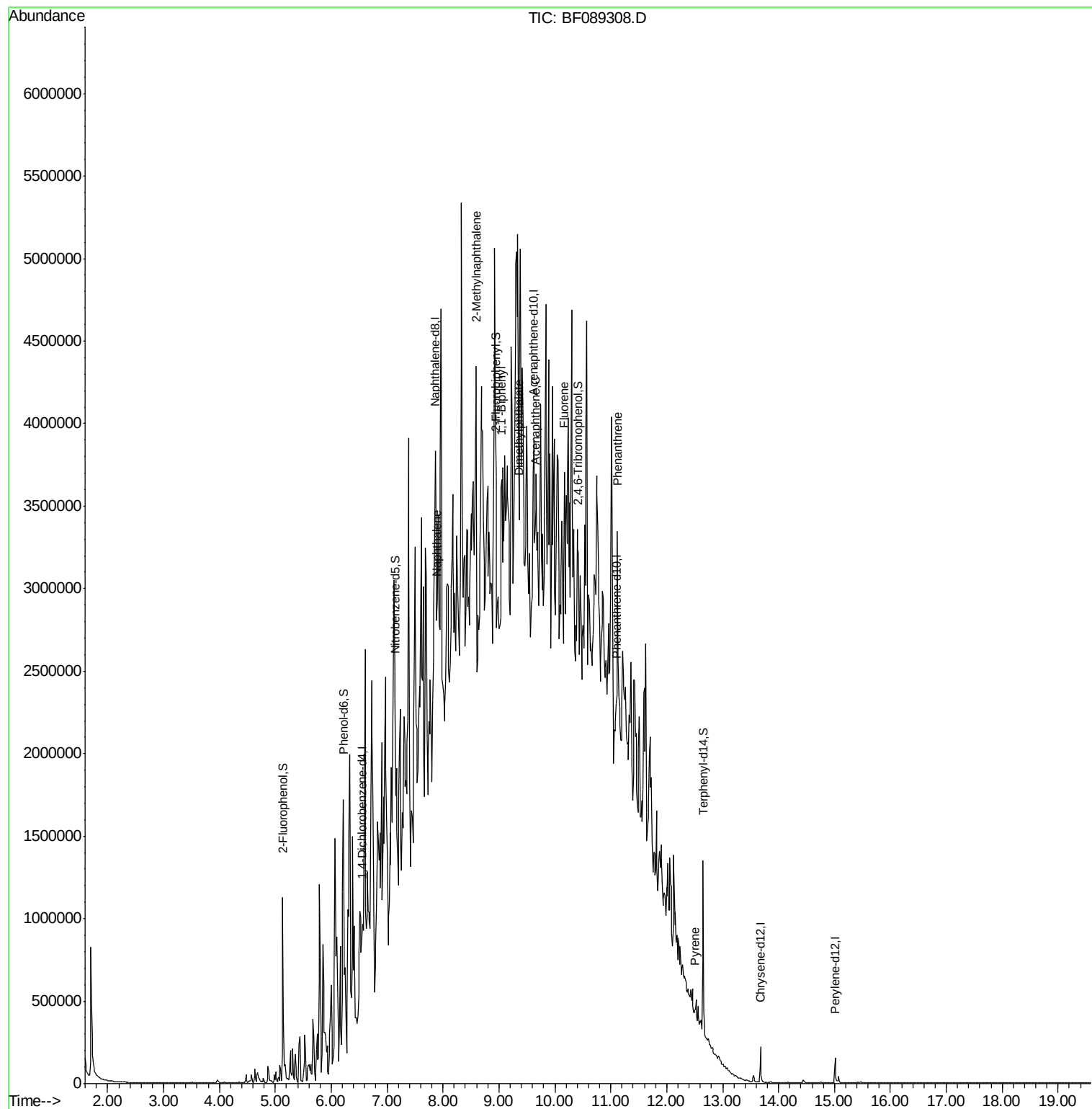
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.56  | 152  | 45791    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8          | 7.86  | 136  | 145830   | 20.00  | ng    | 0.01     |
| 38) Acenaphthene-d10        | 9.62  | 164  | 63720    | 20.00  | ng    | 0.02     |
| 63) Phenanthrene-d10        | 11.10 | 188  | 106078   | 20.00  | ng    | 0.02     |
| 75) Chrysene-d12            | 13.68 | 240  | 86464    | 20.00  | ng    | -0.01    |
| 86) Perylene-d12            | 15.02 | 264  | 79354    | 20.00  | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.13  | 112  | 402786   | 133.78 | ng    | -0.01    |
| 7) Phenol-d6                | 6.22  | 99   | 524294   | 135.03 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.14  | 82   | 367817   | 134.02 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.41 | 330  | 79469    | 138.52 | ng    | 0.02     |
| 44) 2-Fluorobiphenyl        | 8.95  | 172  | 409040   | 88.45  | ng    | 0.01     |
| 78) Terphenyl-d14           | 12.65 | 244  | 362725   | 90.99  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 7.88  | 128  | 339031   | 43.08  | ng    | # 84     |
| 37) 2-Methylnaphthalene     | 8.59  | 142  | 487471   | 97.12  | ng    | 96       |
| 45) 1,1'-Biphenyl           | 9.05  | 154  | 136323   | 23.76  | ng    | 94       |
| 49) Dimethylphthalate       | 9.36  | 163  | 128286   | 26.24  | ng    | # 84     |
| 51) Acenaphthene            | 9.66  | 154  | 101989   | 25.15  | ng    | # 89     |
| 57) Fluorene                | 10.17 | 166  | 218532   | 46.98  | ng    | # 84     |
| 70) Phenanthrene            | 11.12 | 178  | 665249   | 114.32 | ng    | # 96     |
| 77) Pyrene                  | 12.50 | 202  | 24450    | 3.42   | ng    | # 83     |

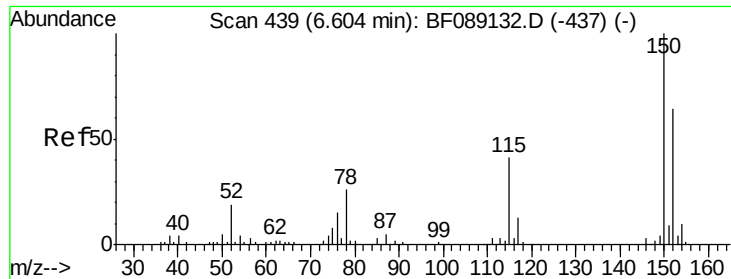
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampleId :

EW-2

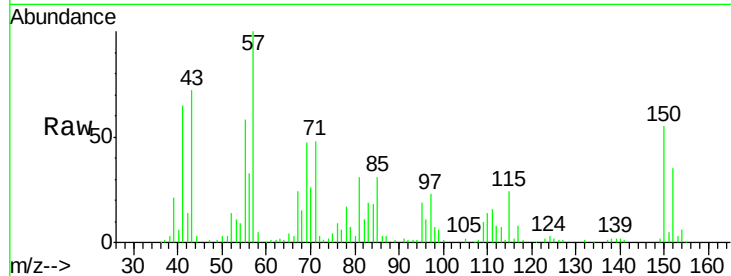
Tot Ion:152 Resp: 45791

Ion Ratio Lower Upper

152 100

150 159.3 125.1 187.7

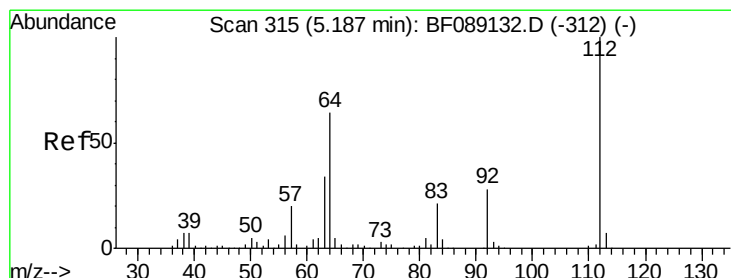
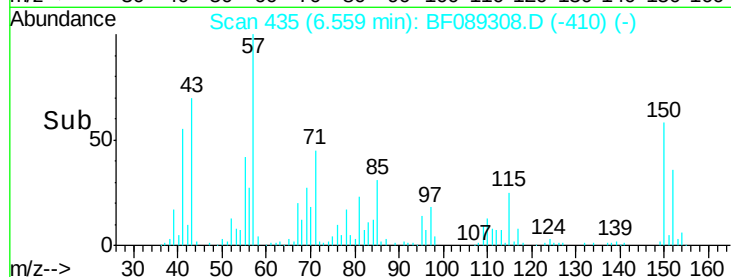
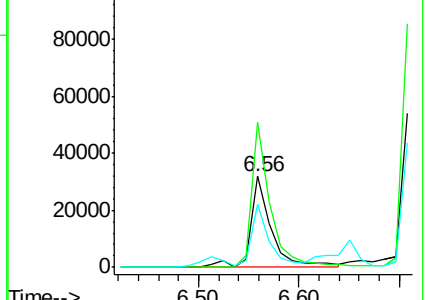
115 69.0 51.1 76.7



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: 133.78 ng

RT: 5.13 min Scan# 310

Delta R.T. -0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

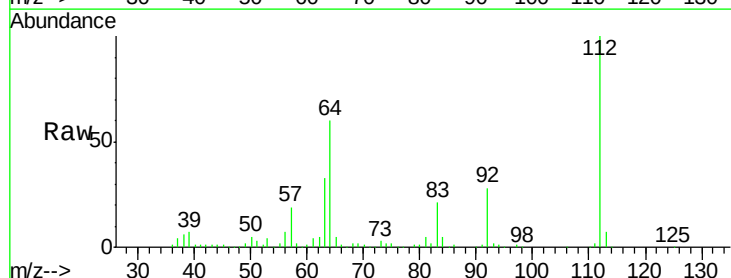
Tgt Ion:112 Resp: 402786

Ion Ratio Lower Upper

112 100

64 60.4 51.0 76.4

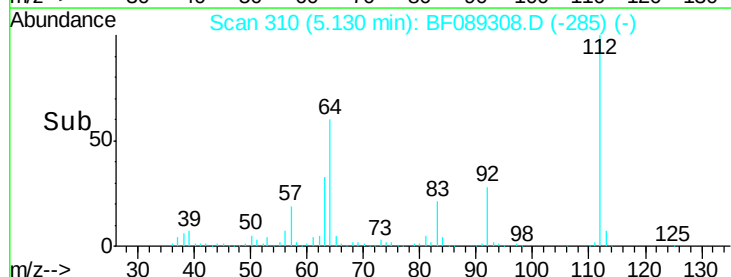
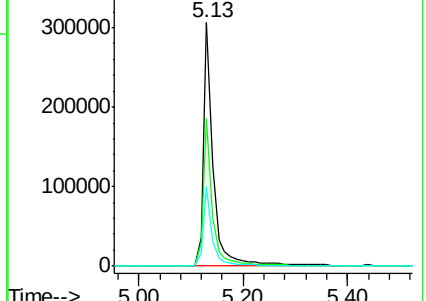
63 32.7 27.3 40.9

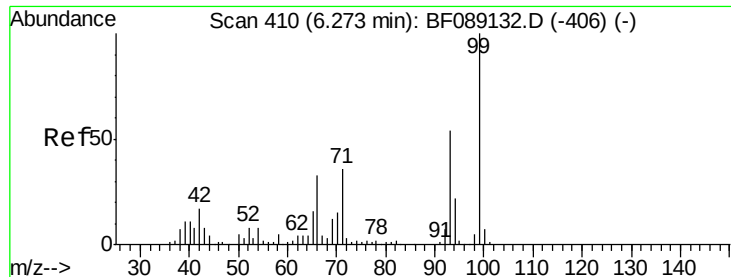


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 135.03 ng

RT: 6.22 min Scan# 405

Delta R.T. -0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampled :

EW-2

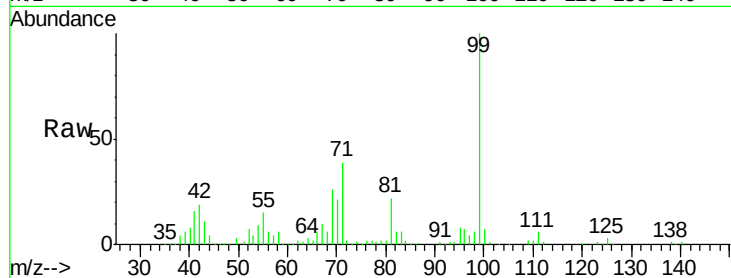
Tot Ion: 99 Resp: 524294

Ion Ratio Lower Upper

99 100

42 18.9 13.5 20.3

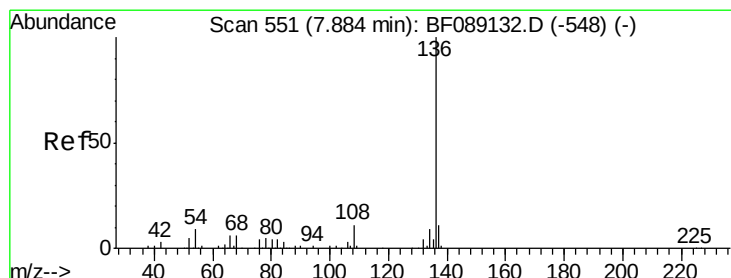
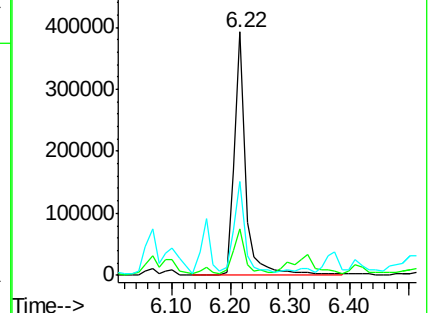
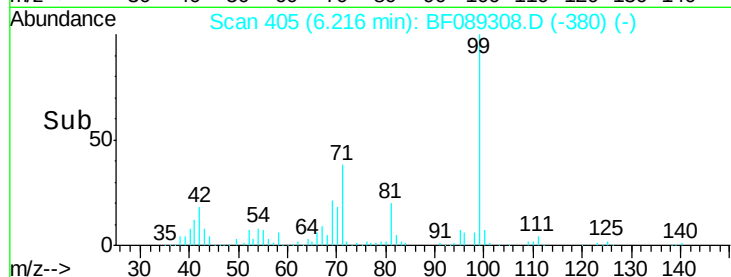
71 38.7 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.86 min Scan# 549

Delta R.T. 0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Tgt Ion: 136 Resp: 145830

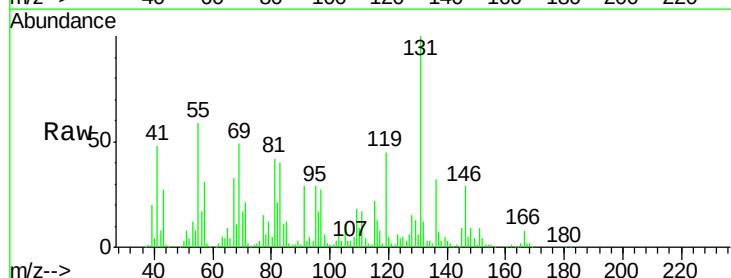
Ion Ratio Lower Upper

136 100

137 21.2 8.8 13.2#

54 26.8 7.0 10.4#

68 34.6 5.0 7.6#

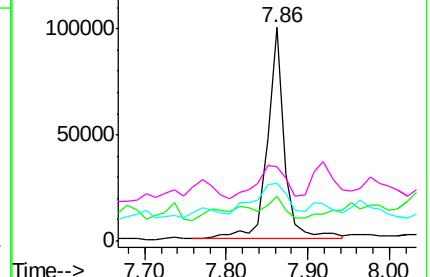
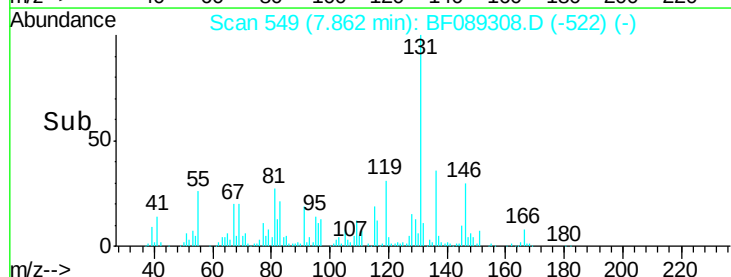


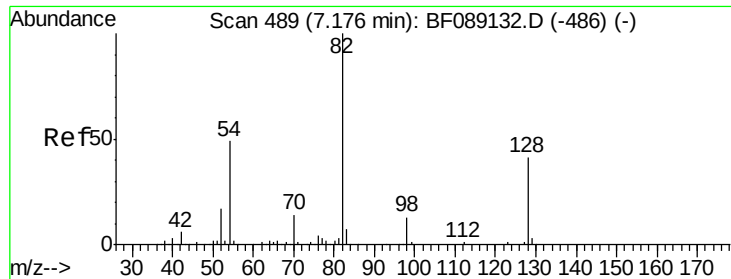
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

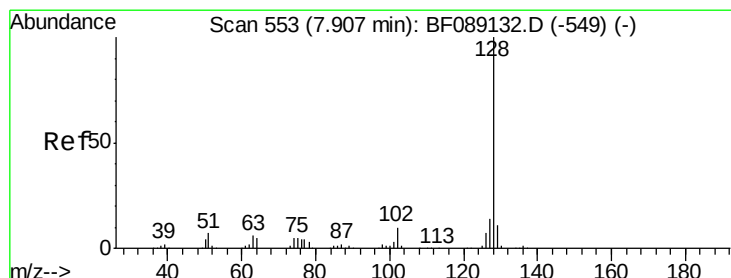
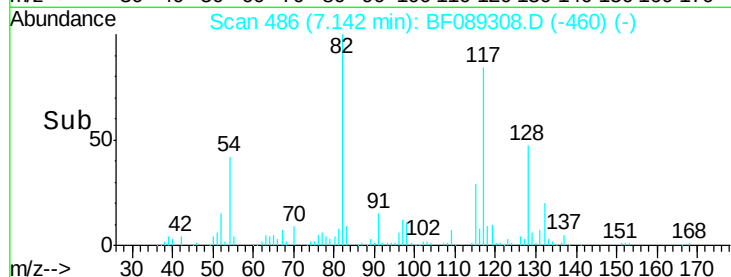
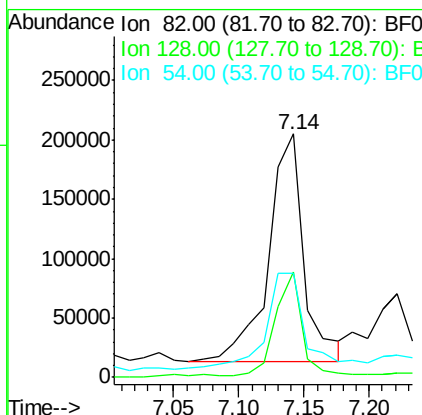
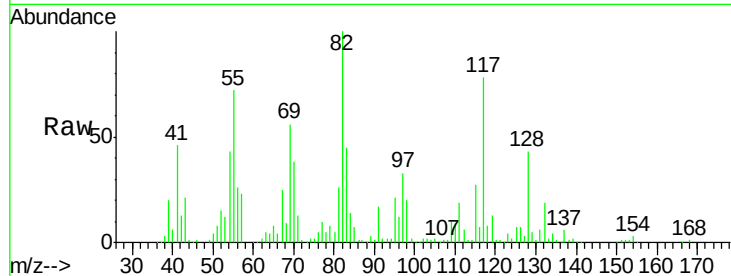




#23  
 Nitrobenzene-d5  
 Concen: 134.02 ng  
 RT: 7.14 min Scan# 486  
 Delta R.T. 0.00 min  
 Lab File: BF089308.D  
 Acq: 26 Jul 2016 12:36

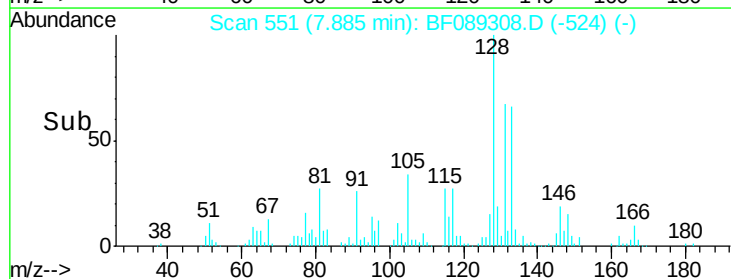
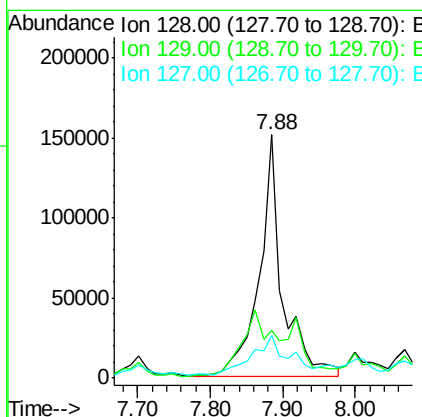
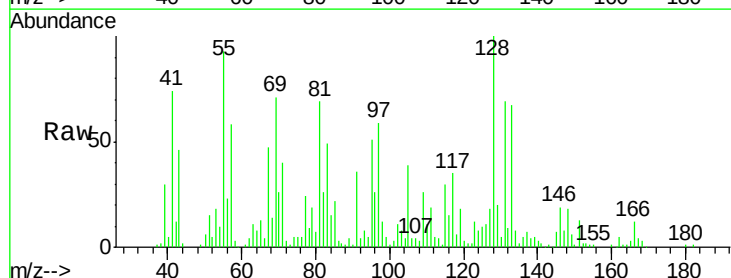
Instrument :  
 BNA\_F  
 ClientSampleId :  
 EW-2

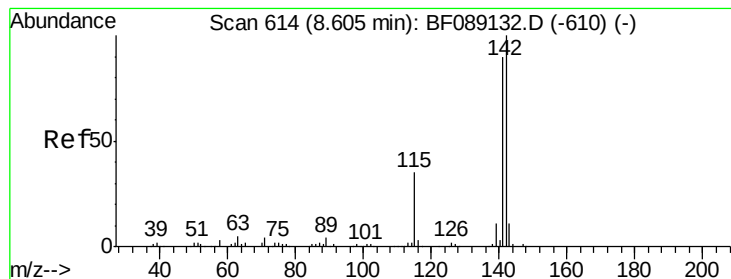
| Tot Ion   | 82    | Resp  | 367817 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 43.2  | 33.0  | 49.6   |
| 54        | 42.9  | 39.0  | 58.4   |



#31  
 Naphthalene  
 Concen: 43.08 ng  
 RT: 7.88 min Scan# 551  
 Delta R.T. 0.01 min  
 Lab File: BF089308.D  
 Acq: 26 Jul 2016 12:36

| Tgt Ion   | 128   | Resp  | 339031 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 19.8  | 8.9   | 13.3#  |
| 127       | 17.6  | 10.8  | 16.2#  |





#37

2-Methylnaphthalene

Concen: 97.12 ng

RT: 8.59 min Scan# 613

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampled :

EW-2

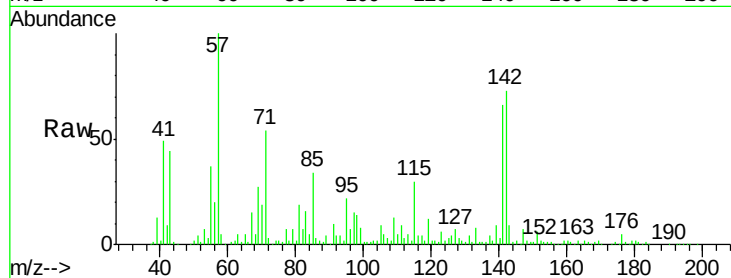
Tot Ion:142 Resp: 487471

Ion Ratio Lower Upper

142 100

141 90.7 71.6 107.4

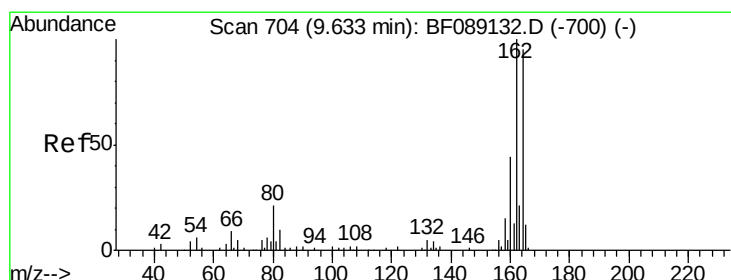
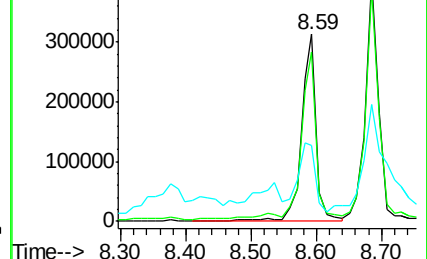
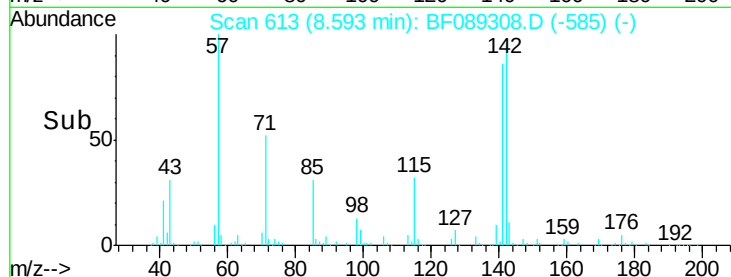
115 40.8 27.6 41.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.62 min Scan# 703

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

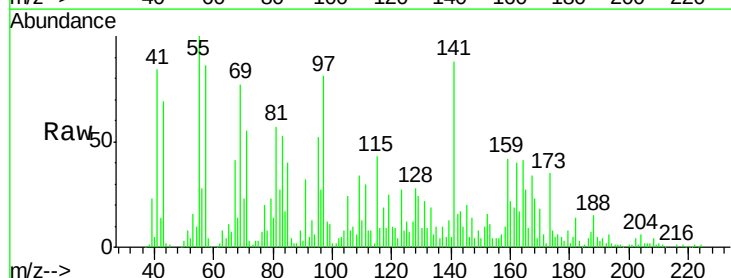
Tgt Ion:164 Resp: 63720

Ion Ratio Lower Upper

164 100

162 97.1 84.1 126.1

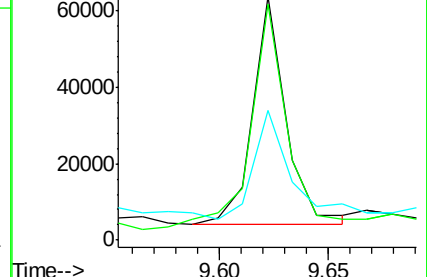
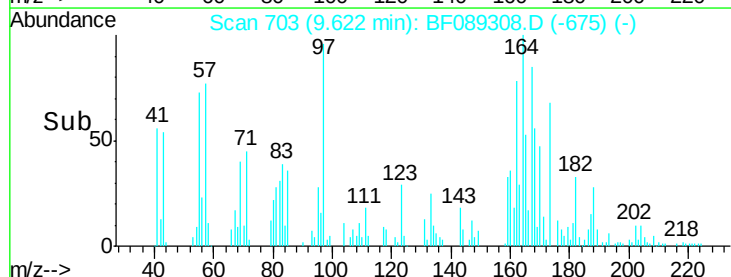
160 53.2 37.1 55.7

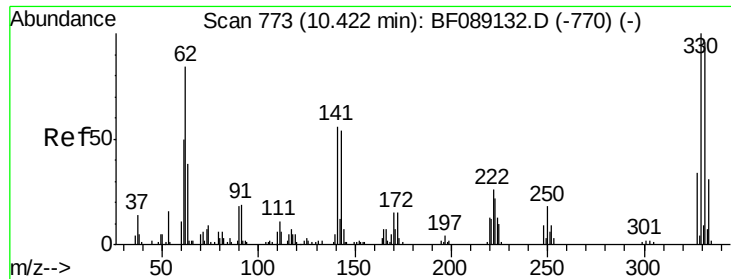


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

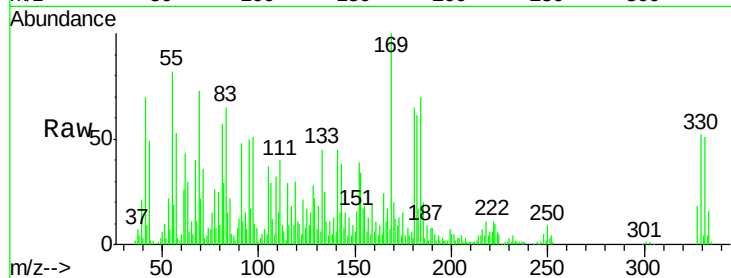




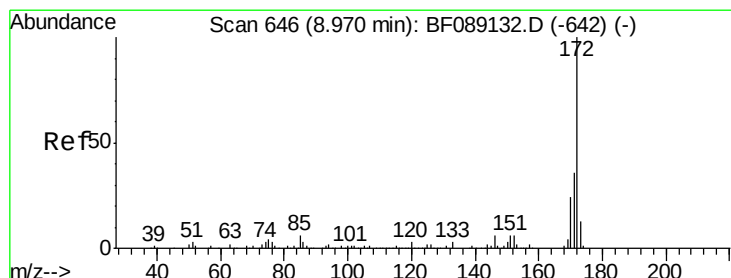
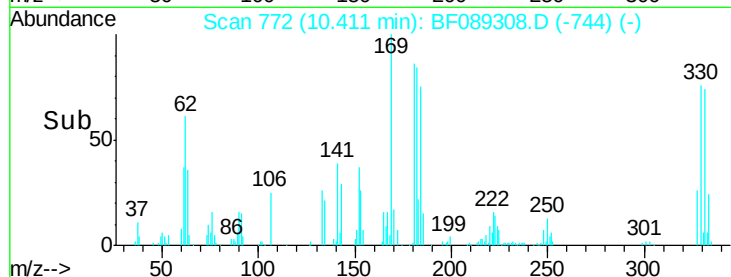
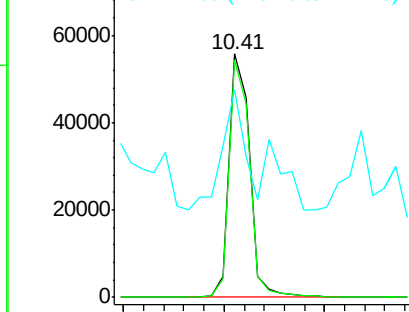
#41  
 2,4,6-Tribromophenol  
 Concen: 138.52 ng  
 RT: 10.41 min Scan# 772  
 Delta R.T. 0.02 min  
 Lab File: BF089308.D  
 Acq: 26 Jul 2016 12:36

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EW-2

Tot Ion:330 Resp: 79469  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 77.2 115.8  
 141 54.4 42.2 63.2

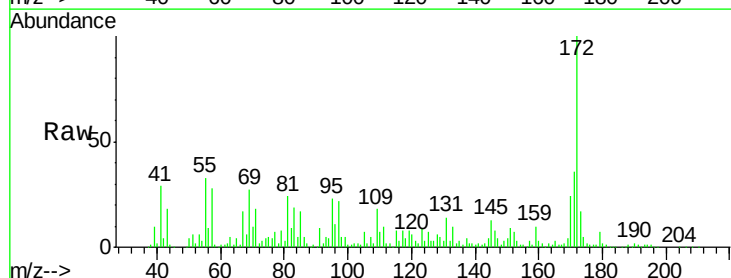


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

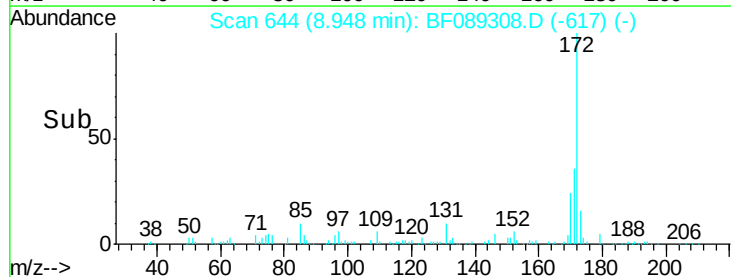
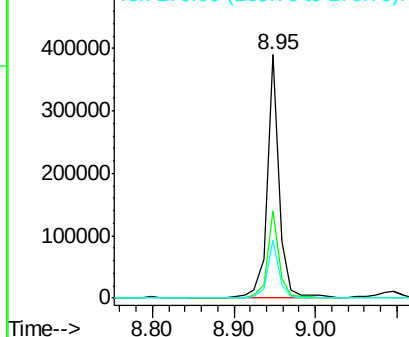


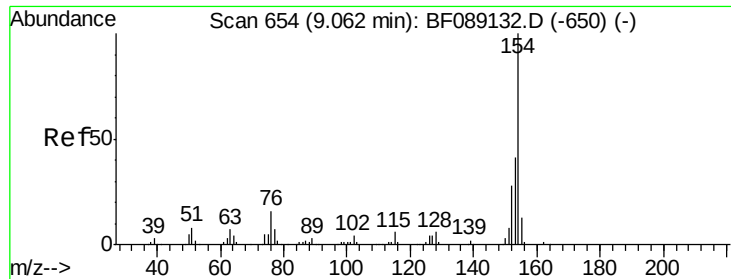
#44  
 2-Fluorobiphenyl  
 Concen: 88.45 ng  
 RT: 8.95 min Scan# 644  
 Delta R.T. 0.01 min  
 Lab File: BF089308.D  
 Acq: 26 Jul 2016 12:36

Tgt Ion:172 Resp: 409040  
 Ion Ratio Lower Upper  
 172 100  
 171 36.2 29.2 43.8  
 170 23.6 19.1 28.7



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: 23.76 ng

RT: 9.05 min Scan# 653

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampled :

EW-2

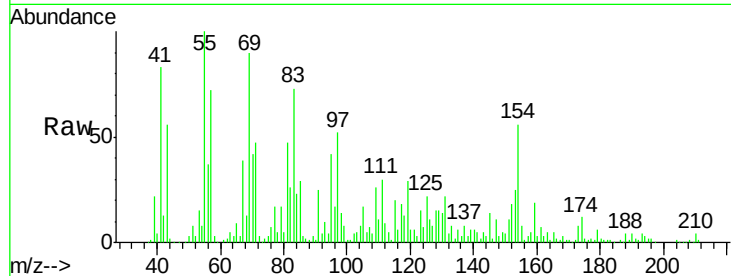
Tot Ion:154 Resp: 136323

Ion Ratio Lower Upper

154 100

153 44.5 21.1 61.1

76 13.0 0.0 35.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0

150000

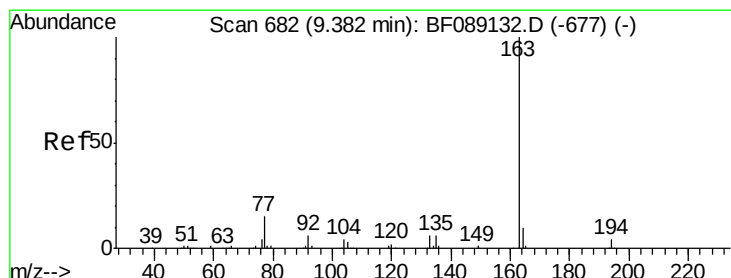
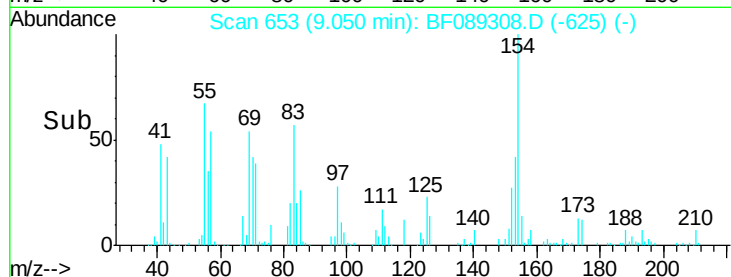
100000

50000

0

8.95 9.00 9.05 9.10 9.15

Time-->



#49

Dimethylphthalate

Concen: 26.24 ng

RT: 9.36 min Scan# 680

Delta R.T. 0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

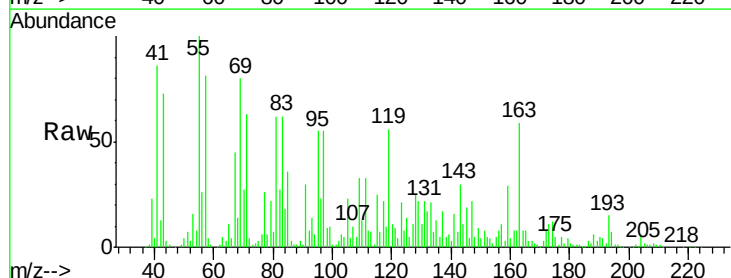
Tgt Ion:163 Resp: 128286

Ion Ratio Lower Upper

163 100

194 12.5 2.9 4.3#

164 13.9 7.6 11.4#



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

120000

100000

80000

60000

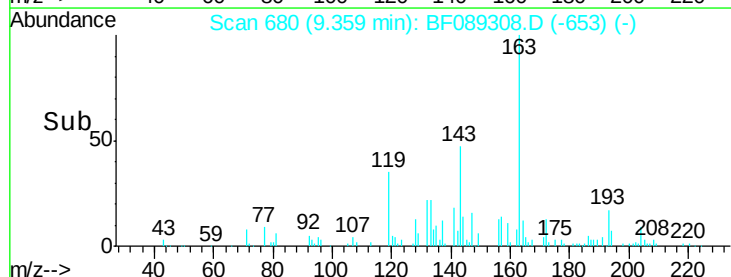
40000

20000

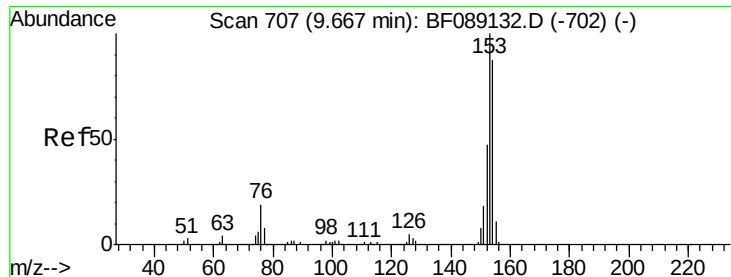
0

9.25 9.30 9.35 9.40

Time-->







#51

Acenaphthene

Concen: 25.15 ng

RT: 9.66 min Scan# 706

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampleId :

EW-2

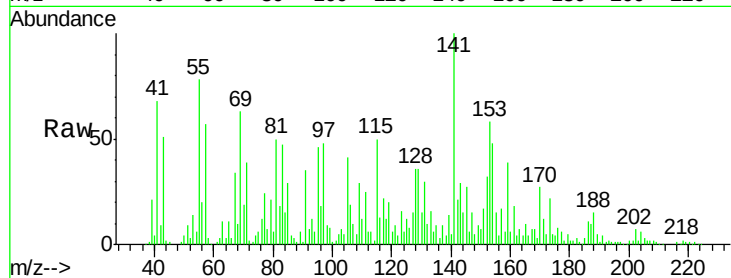
Tot Ion:154 Resp: 101989

Ion Ratio Lower Upper

154 100

153 122.5 91.9 137.9

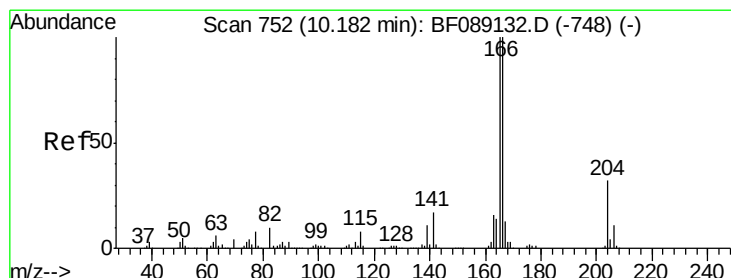
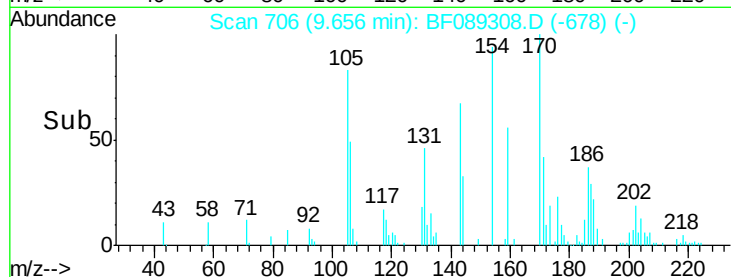
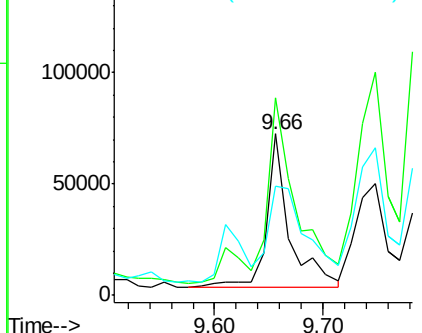
152 67.9 42.8 64.2#



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#57

Fluorene

Concen: 46.98 ng

RT: 10.17 min Scan# 751

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

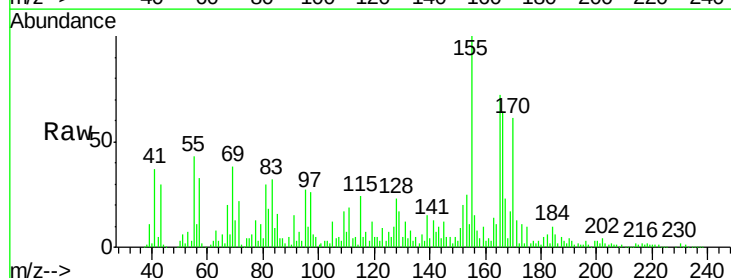
Tgt Ion:166 Resp: 218532

Ion Ratio Lower Upper

166 100

165 111.1 79.9 119.9

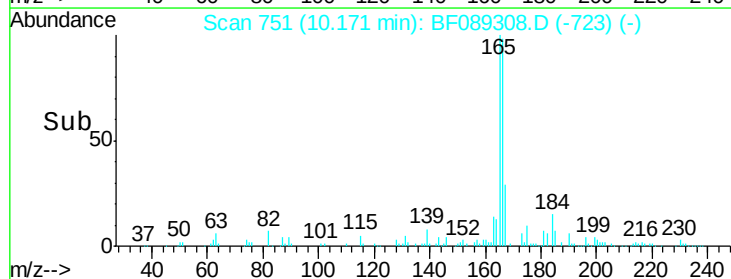
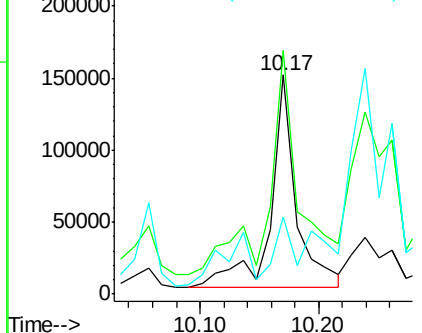
167 35.2 10.7 16.1#

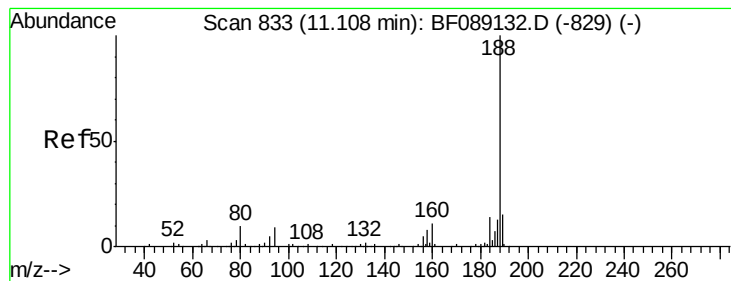


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 832

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampleId :

EW-2

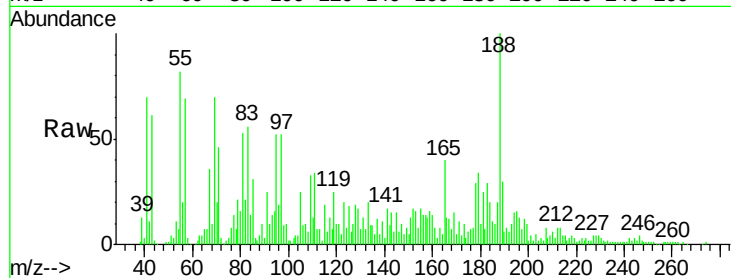
Tot Ion:188 Resp: 106078

Ion Ratio Lower Upper

188 100

94 15.6 7.0 10.4#

80 16.1 7.7 11.5#

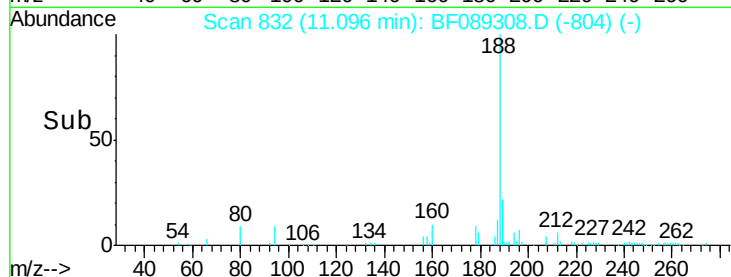


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

Time-->



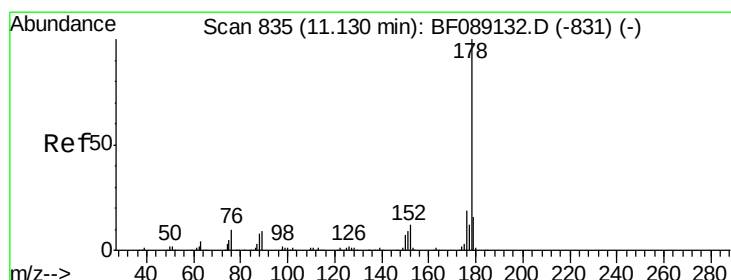
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

Time-->



#70

Phenanthrene

Concen: 114.32 ng

RT: 11.12 min Scan# 834

Delta R.T. 0.02 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

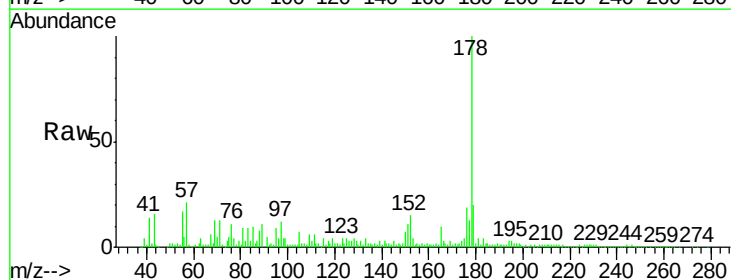
Tgt Ion:178 Resp: 665249

Ion Ratio Lower Upper

178 100

176 19.5 15.6 23.4

179 19.5 12.4 18.6#

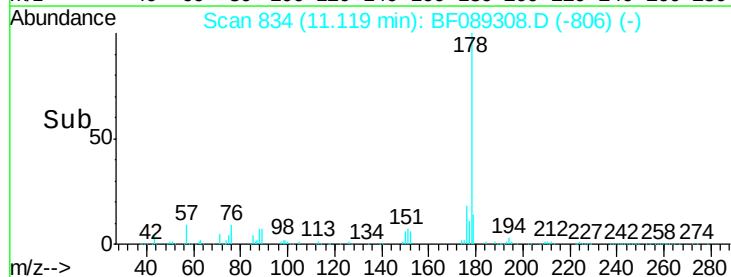


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

Time-->



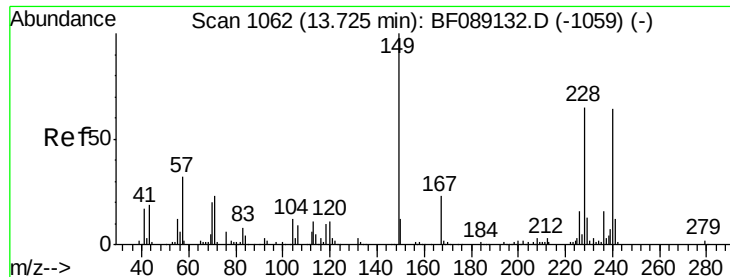
Abundance

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

Time-->



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.68 min Scan# 1058

Delta R.T. -0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampleId :

EW-2

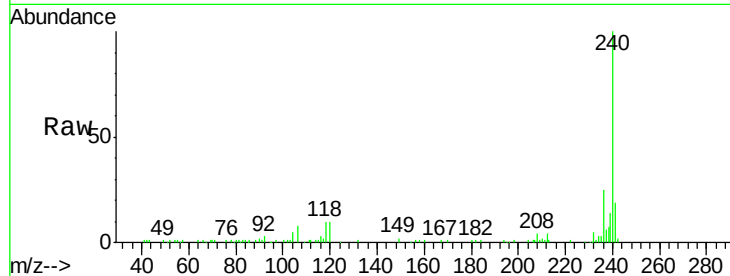
Tot Ion:240 Resp: 86464

Ion Ratio Lower Upper

240 100

120 9.7 13.6 20.4#

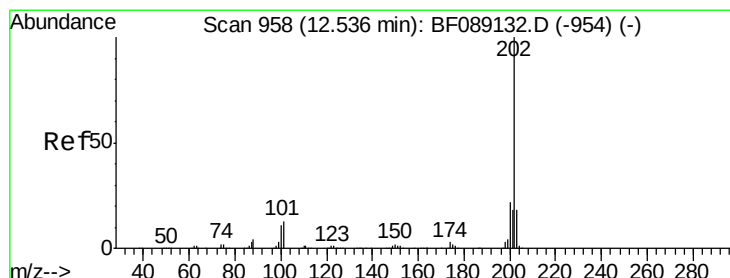
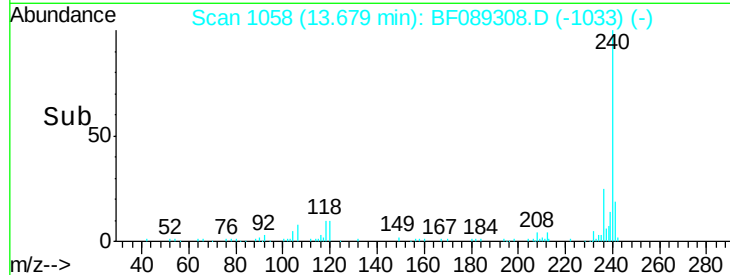
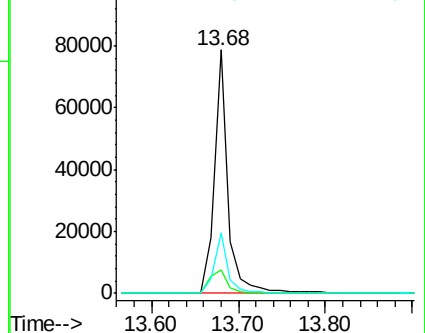
236 24.9 20.5 30.7



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



#77

Pyrene

Concen: 3.42 ng

RT: 12.50 min Scan# 955

Delta R.T. 0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

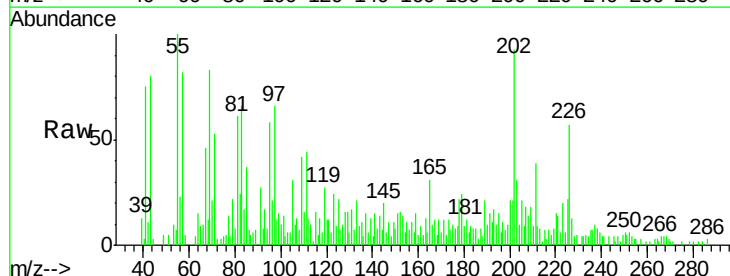
Tgt Ion:202 Resp: 24450

Ion Ratio Lower Upper

202 100

200 22.7 17.4 26.0

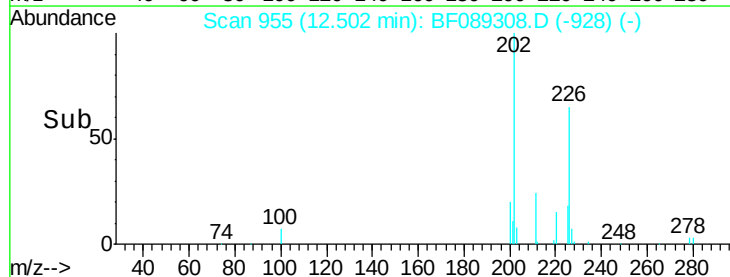
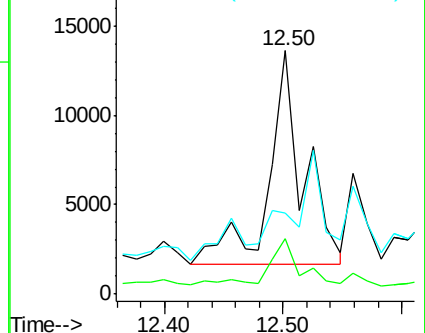
203 33.1 14.2 21.2#

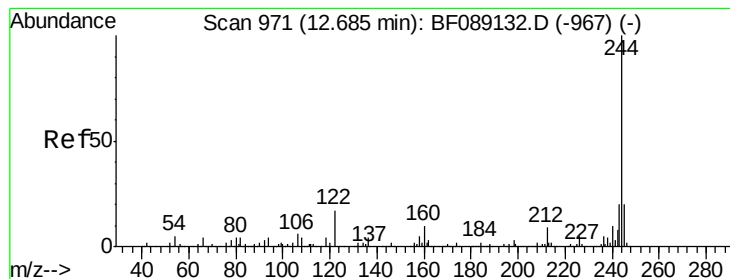


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 90.99 ng

RT: 12.65 min Scan# 968

Delta R.T. 0.00 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

Instrument :

BNA\_F

ClientSampleId :

EW-2

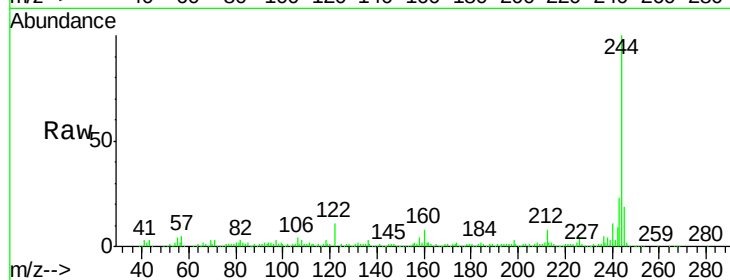
Tot Ion:244 Resp: 362725

Ion Ratio Lower Upper

244 100

212 7.7 7.0 10.4

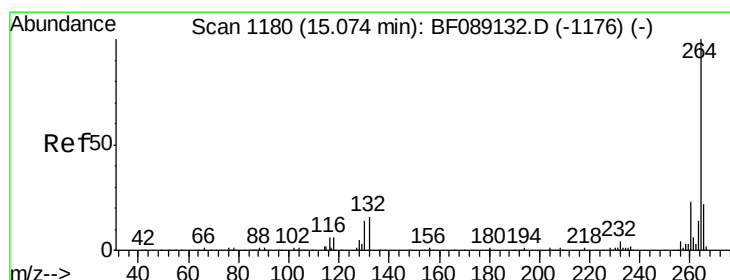
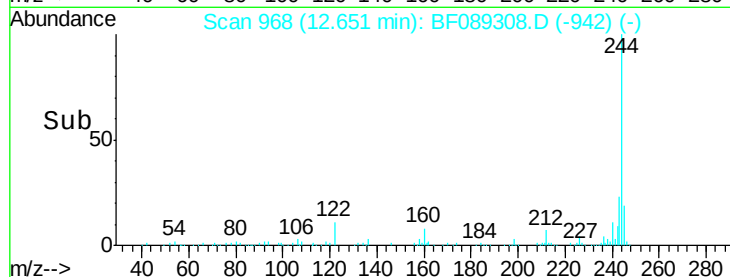
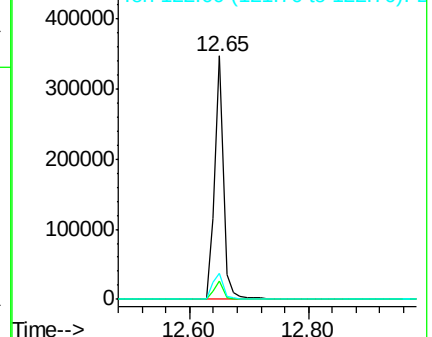
122 10.8 13.8 20.8#



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: 15.02 min Scan# 1175

Delta R.T. -0.01 min

Lab File: BF089308.D

Acq: 26 Jul 2016 12:36

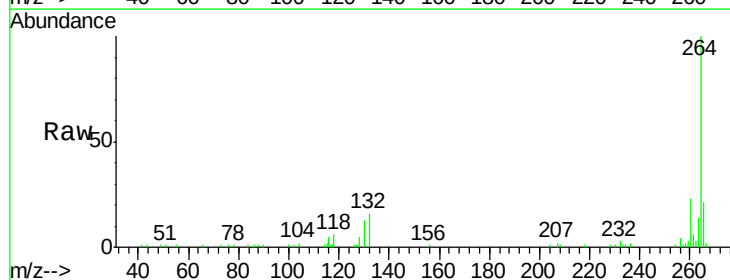
Tgt Ion:264 Resp: 79354

Ion Ratio Lower Upper

264 100

260 23.0 18.5 27.7

265 21.3 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

