

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF071816\  
 Data File : BF089095.D  
 Acq On : 18 Jul 2016 21:41  
 Operator : UM/SJ  
 Sample : H4044-17  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M9-B5(0-6)C

Quant Time: Jul 19 03:17:10 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF063016.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 11 18:13:32 2016  
 Response via : Initial Calibration

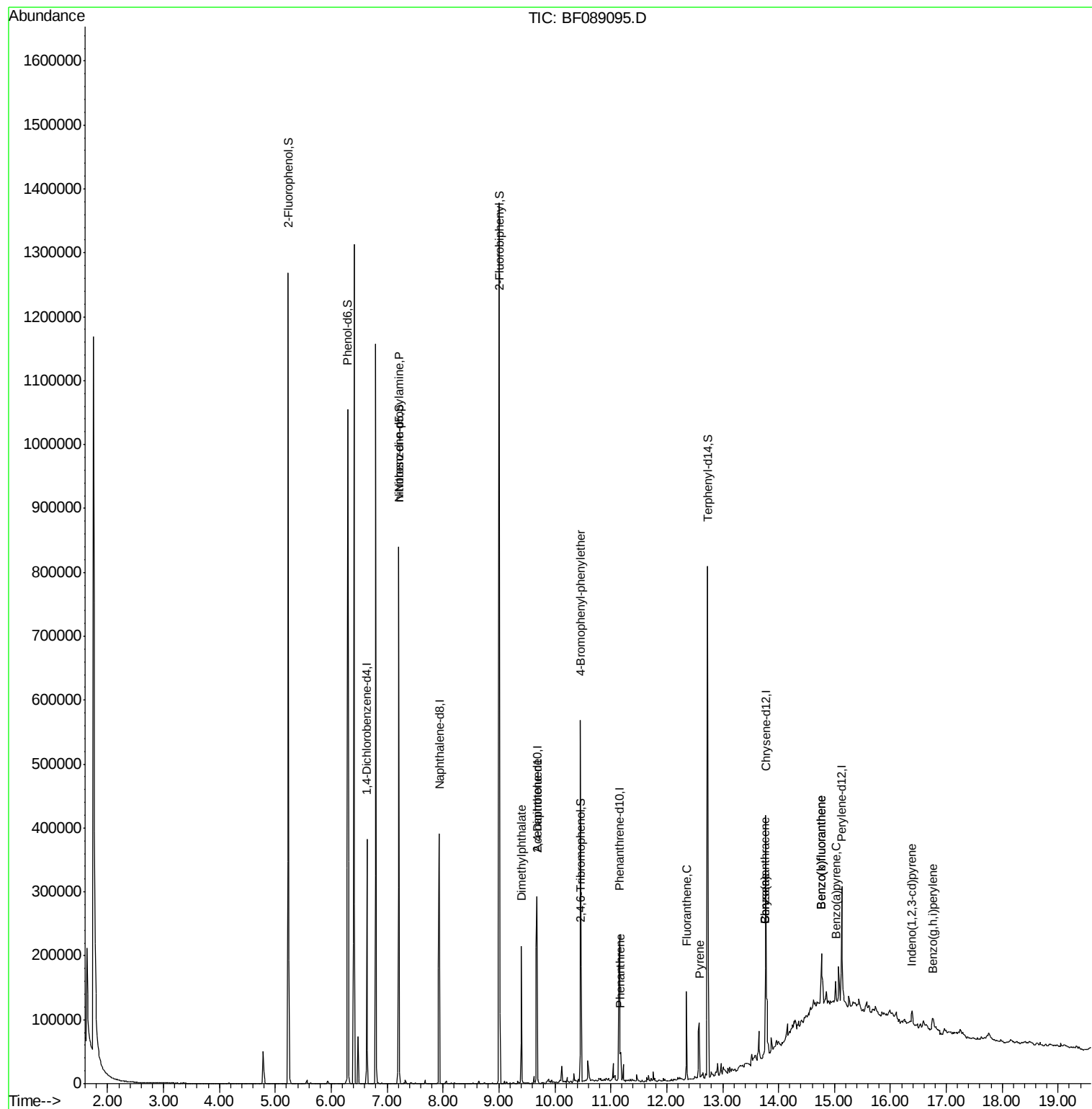
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 50594    | 20.00  | ng    | -0.07    |
| 21) Naphthalene-d8             | 7.93  | 136  | 199340   | 20.00  | ng    | -0.07    |
| 38) Acenaphthene-d10           | 9.68  | 164  | 73661    | 20.00  | ng    | -0.07    |
| 63) Phenanthrene-d10           | 11.15 | 188  | 113554   | 20.00  | ng    | -0.07    |
| 75) Chrysene-d12               | 13.77 | 240  | 95548    | 20.00  | ng    | -0.08    |
| 86) Perylene-d12               | 15.13 | 264  | 68896    | 20.00  | ng    | -0.08    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 349474   | 103.52 | ng    | -0.06    |
| 7) Phenol-d6                   | 6.30  | 99   | 429838   | 98.54  | ng    | -0.06    |
| 23) Nitrobenzene-d5            | 7.21  | 82   | 286557   | 75.33  | ng    | -0.07    |
| 41) 2,4,6-Tribromophenol       | 10.47 | 330  | 55096    | 80.55  | ng    | -0.07    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 390074   | 83.65  | ng    | -0.07    |
| 78) Terphenyl-d14              | 12.73 | 244  | 220870   | 51.49  | ng    | -0.07    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.21  | 70   | 40376    | 13.78  | ng    | # 73     |
| 49) Dimethylphthalate          | 9.40  | 163  | 88979    | 16.96  | ng    | 99       |
| 56) 2,4-Dinitrotoluene         | 9.68  | 165  | 9765     | 6.42   | ng    | # 36     |
| 66) 4-Bromophenyl-phenylether  | 10.46 | 248  | 4062     | 3.55   | ng    | # 1      |
| 70) Phenanthrene               | 11.18 | 178  | 24449    | 3.94   | ng    | 98       |
| 74) Fluoranthene               | 12.35 | 202  | 51359    | 8.16   | ng    | 96       |
| 77) Pyrene                     | 12.58 | 202  | 45833    | 5.66   | ng    | 98       |
| 80) Benzo(a)anthracene         | 13.76 | 228  | 39936    | 6.49   | ng    | 99       |
| 82) Chrysene                   | 13.76 | 228  | 39936    | 6.56   | ng    | 95       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.39 | 276  | 12262    | 2.62   | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 14.77 | 252  | 47322    | 10.95  | ng    | # 92     |
| 88) Benzo(k)fluoranthene       | 14.77 | 252  | 47322    | 12.58  | ng    | 97       |
| 89) Benzo(a)pyrene             | 15.03 | 252  | 17518    | 4.79   | ng    | 92       |
| 91) Benzo(g,h,i)perylene       | 16.75 | 276  | 9465     | 2.99   | ng    | # 90     |

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

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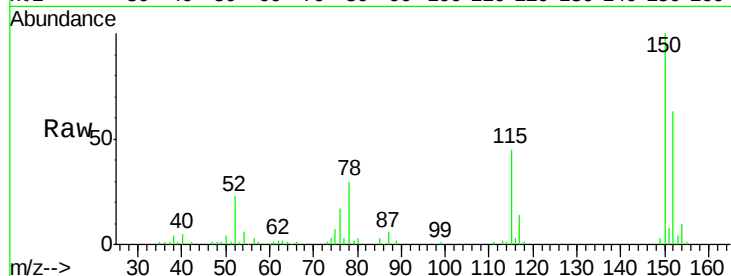




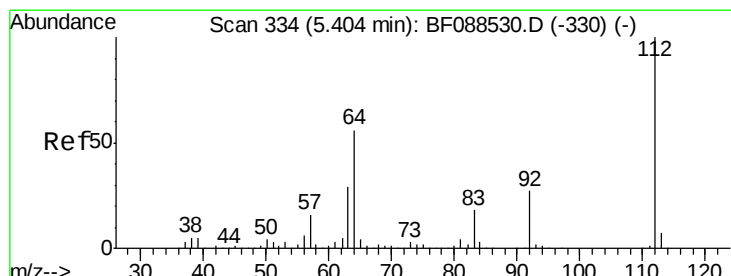
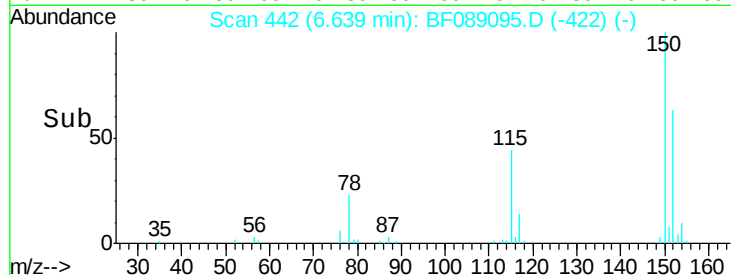
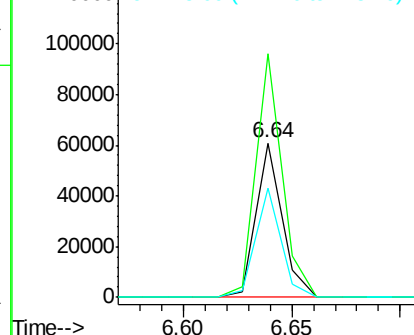
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.64 min Scan# 442  
 Delta R.T. -0.07 min  
 Lab File: BF089095.D  
 Acq: 18 Jul 2016 21:41

Instrument :  
 BNA\_F  
 ClientSampleId :  
 M9-B5(0-6)C

Tgt Ion:152 Resp: 50594  
 Ion Ratio Lower Upper  
 152 100  
 150 157.9 123.8 185.6  
 115 70.8 39.6 59.4#

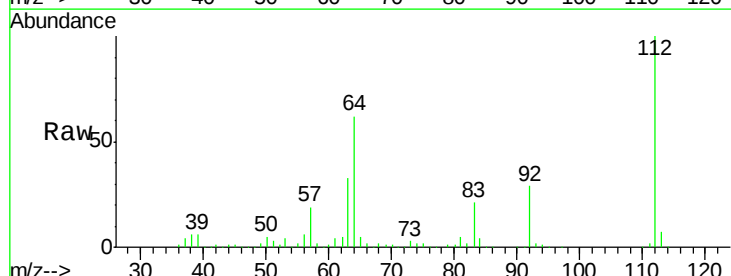


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

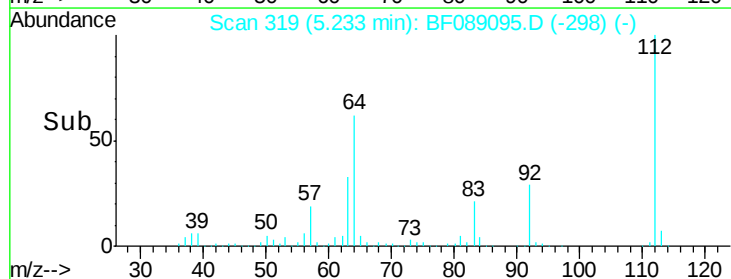
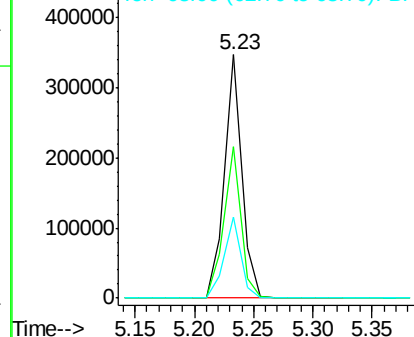


#5  
 2-Fluorophenol  
 Concen: 103.52 ng  
 RT: 5.23 min Scan# 319  
 Delta R.T. -0.06 min  
 Lab File: BF089095.D  
 Acq: 18 Jul 2016 21:41

Tgt Ion:112 Resp: 349474  
 Ion Ratio Lower Upper  
 112 100  
 64 61.9 42.2 63.2  
 63 33.3 21.8 32.8#



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: 98.54 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.06 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

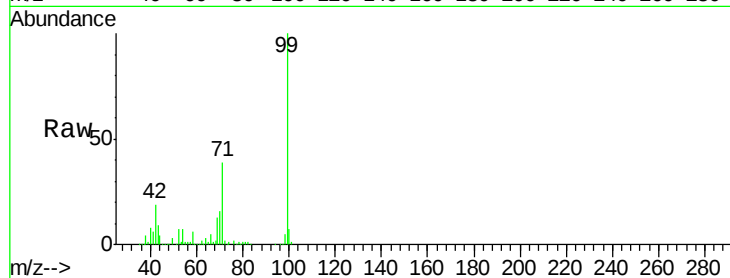
Tgt Ion: 99 Resp: 429838

Ion Ratio Lower Upper

99 100

42 19.0 12.2 18.2#

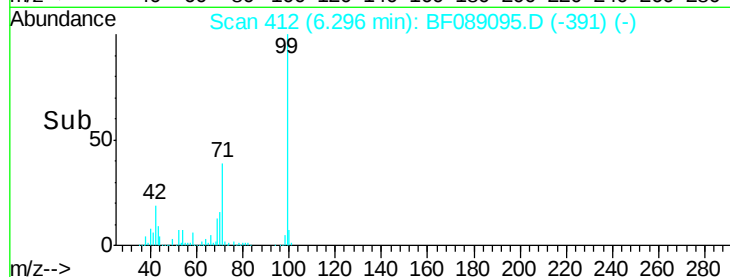
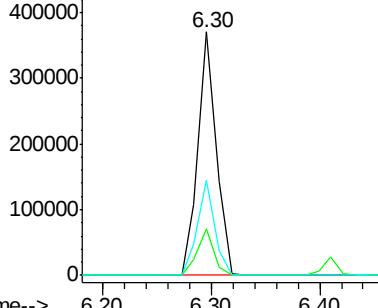
71 39.2 23.4 35.0#



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



#19

n-Nitroso-di-n-propylamine

Concen: 13.78 ng

RT: 7.21 min Scan# 492

Delta R.T. 0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

Tgt Ion: 70 Resp: 40376

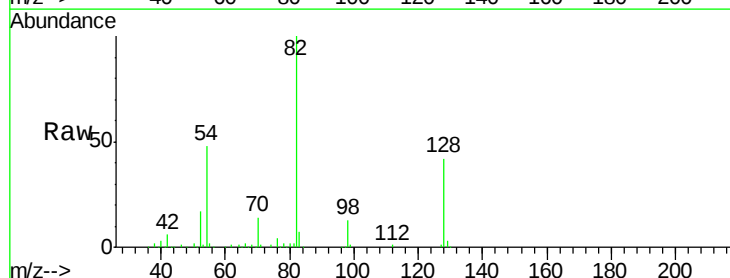
Ion Ratio Lower Upper

70 100

42 43.4 49.6 74.4#

101 0.0 7.1 10.7#

130 1.8 15.4 23.2#

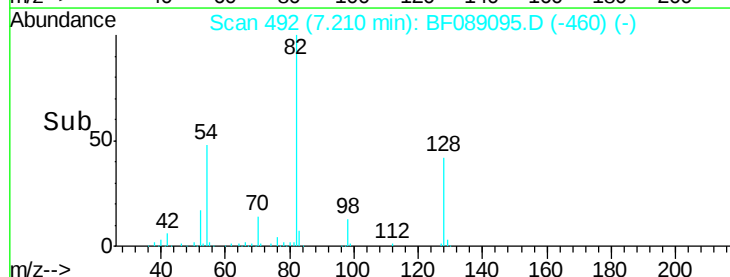
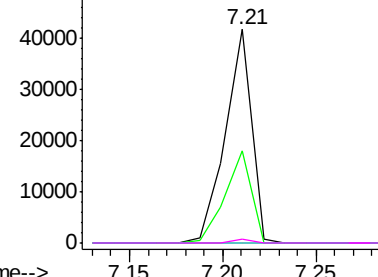


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.93 min Scan# 555

Delta R.T. -0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

Tgt Ion:136 Resp: 199340

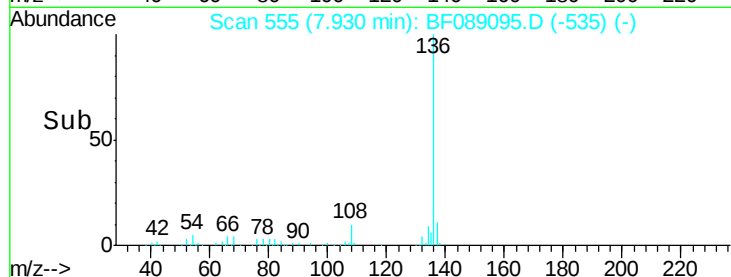
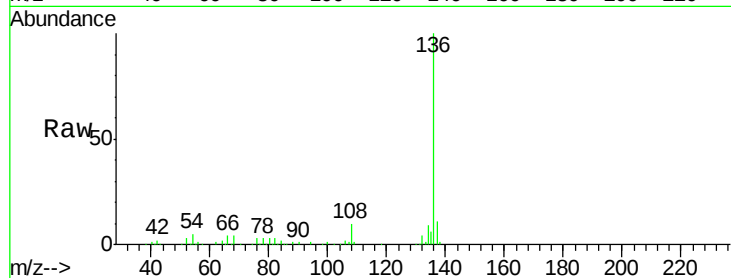
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.2 6.6 10.0#

68 4.5 5.1 7.7#



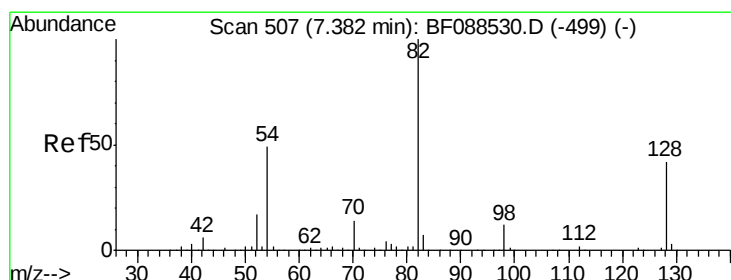
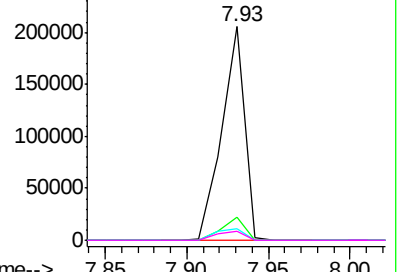
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

Time-->



#23

Nitrobenzene-d5

Concen: 75.33 ng

RT: 7.21 min Scan# 492

Delta R.T. -0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

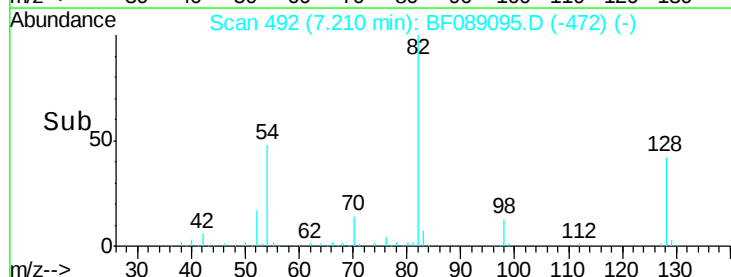
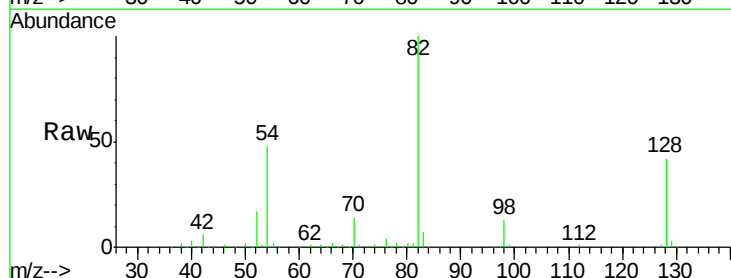
Tgt Ion: 82 Resp: 286557

Ion Ratio Lower Upper

82 100

128 41.6 35.9 53.9

54 48.0 40.9 61.3

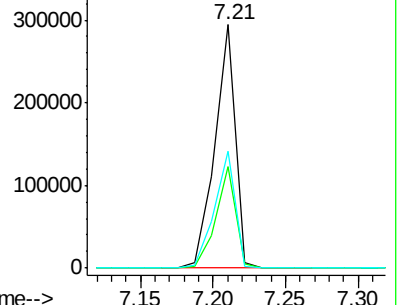


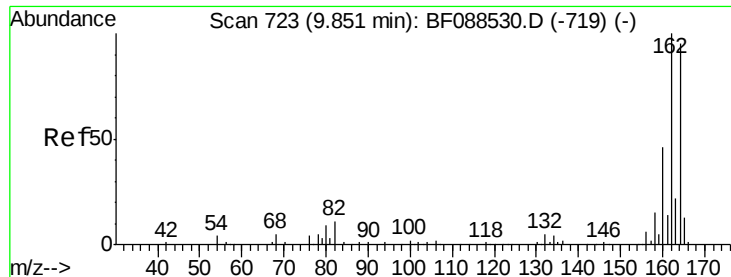
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0

Time-->

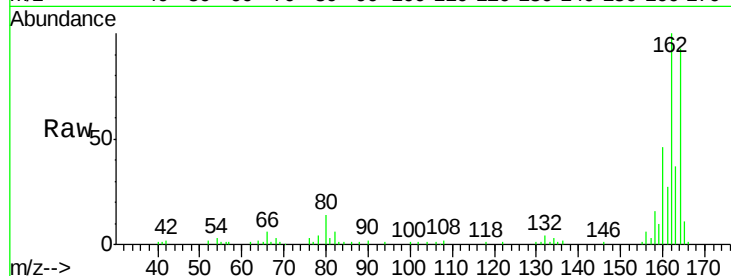




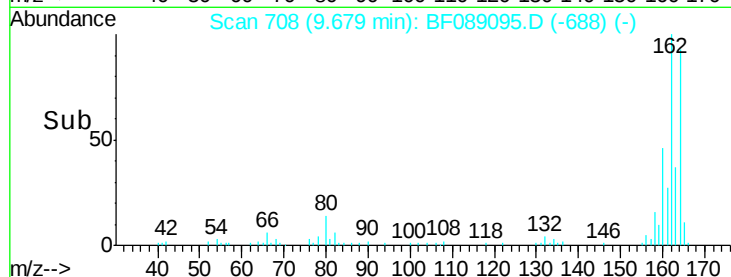
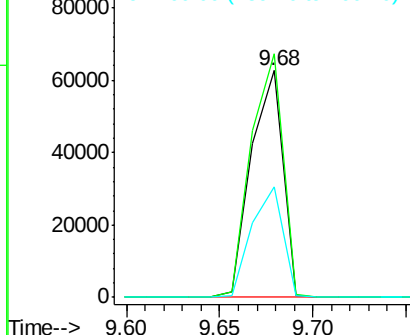
#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.68 min Scan# 708  
Delta R.T. -0.07 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
M9-B5(0-6)C

Tgt Ion:164 Resp: 73661  
Ion Ratio Lower Upper  
164 100  
162 107.5 85.4 128.2  
160 49.1 39.5 59.3

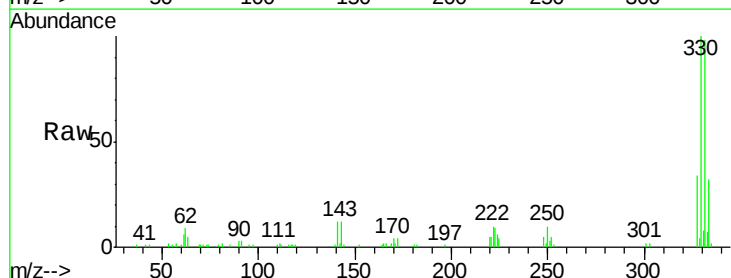


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

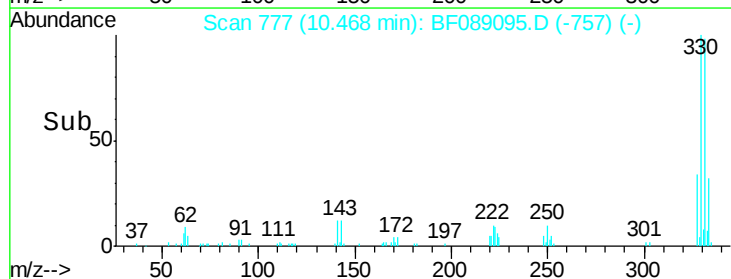
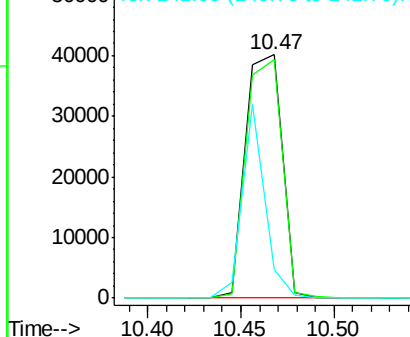


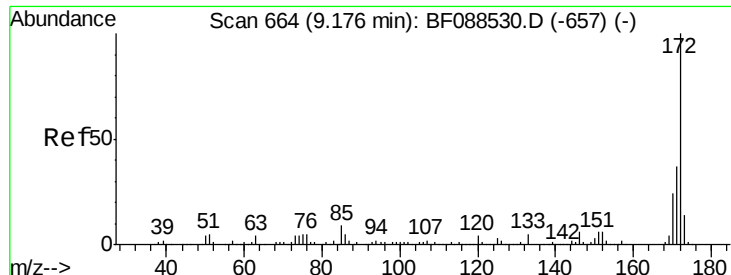
#41  
2,4,6-Tribromophenol  
Concen: 80.55 ng  
RT: 10.47 min Scan# 777  
Delta R.T. -0.07 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Tgt Ion:330 Resp: 55096  
Ion Ratio Lower Upper  
330 100  
332 97.3 0.0 0.0#  
141 49.1 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

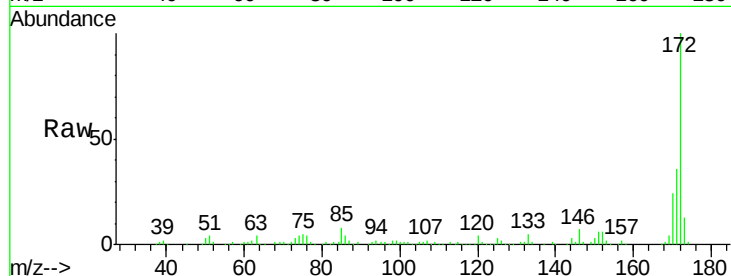




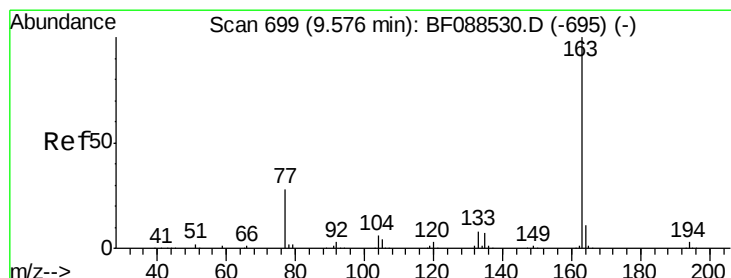
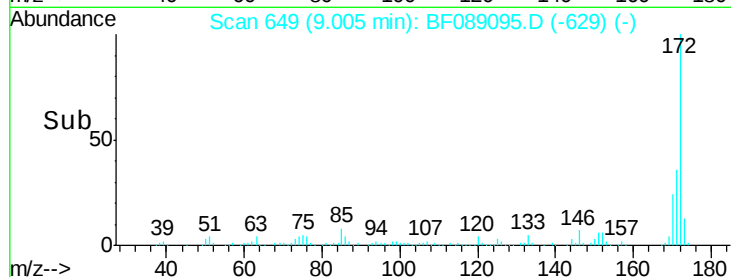
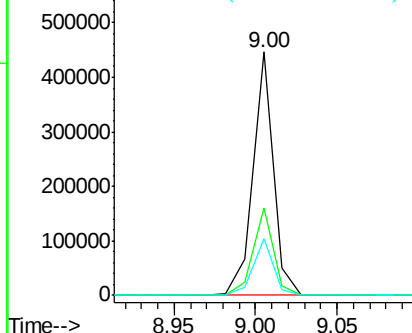
#44  
2-Fluorobiphenyl  
Concen: 83.65 ng  
RT: 9.00 min Scan# 649  
Delta R.T. -0.07 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
M9-B5(0-6)C

Tgt Ion:172 Resp: 390074  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.6 43.0  
170 23.5 19.2 28.8

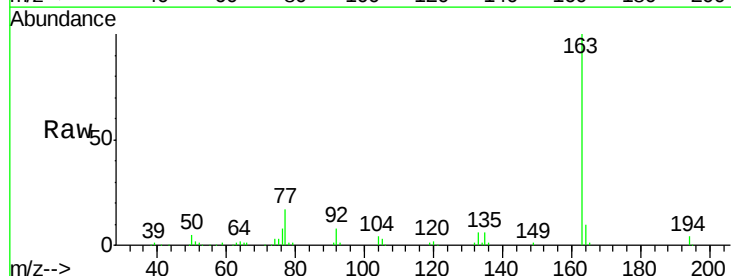


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

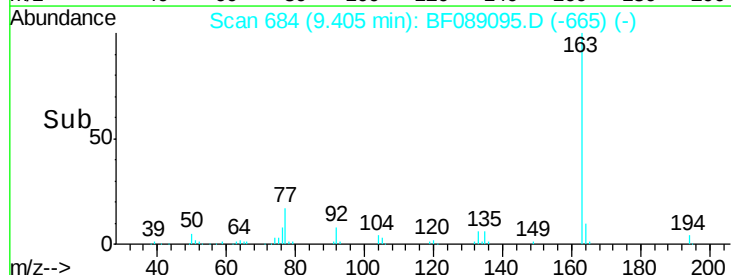
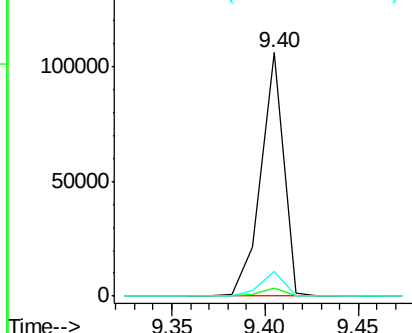


#49  
Dimethylphthalate  
Concen: 16.96 ng  
RT: 9.40 min Scan# 684  
Delta R.T. -0.08 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Tgt Ion:163 Resp: 88979  
Ion Ratio Lower Upper  
163 100  
194 3.6 2.8 4.2  
164 10.0 8.3 12.5



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





#56

2,4-Dinitrotoluene

Concen: 6.42 ng

RT: 9.68 min Scan# 708

Delta R.T. -0.26 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

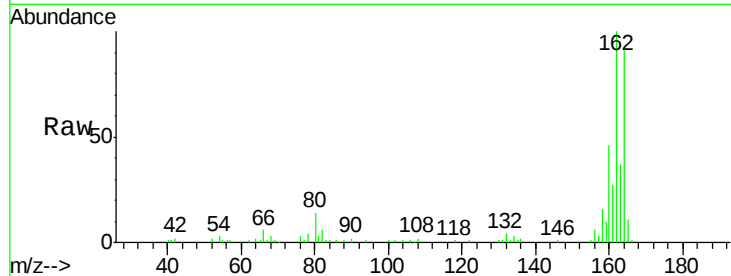
Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 9765  |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.0   | 22.0  | 33.0# |
| 89       | 0.0   | 41.1  | 61.7# |
| 182      | 0.0   | 2.0   | 3.0#  |

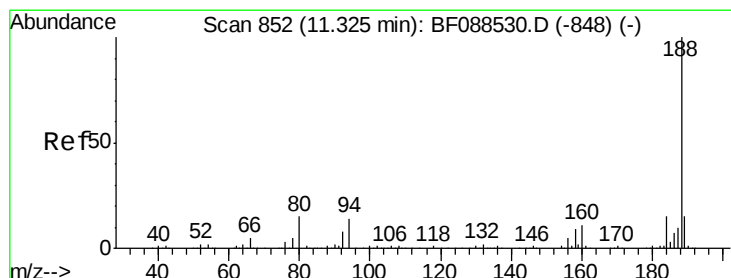
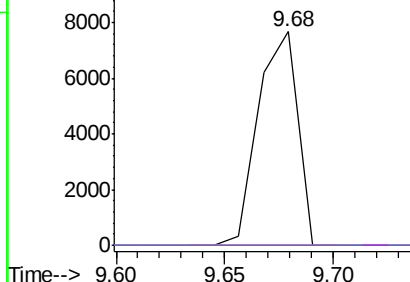
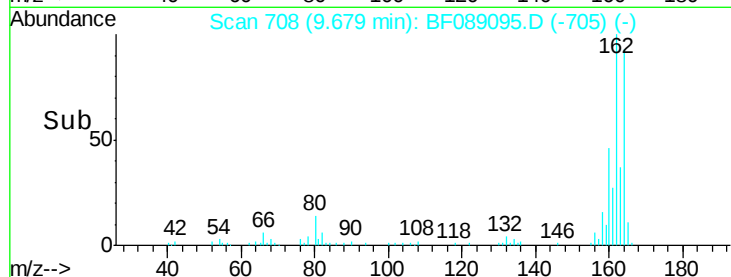


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

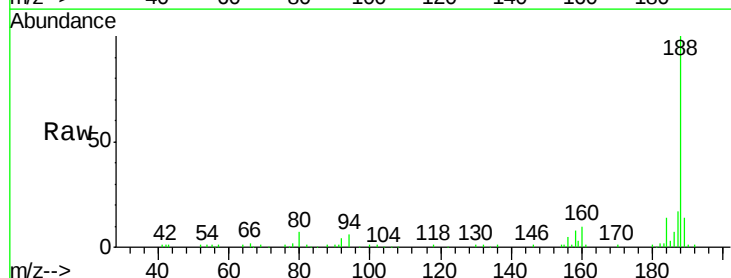
RT: 11.15 min Scan# 837

Delta R.T. -0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

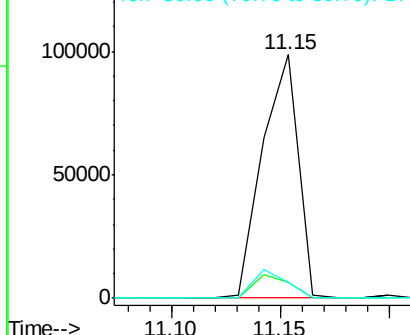
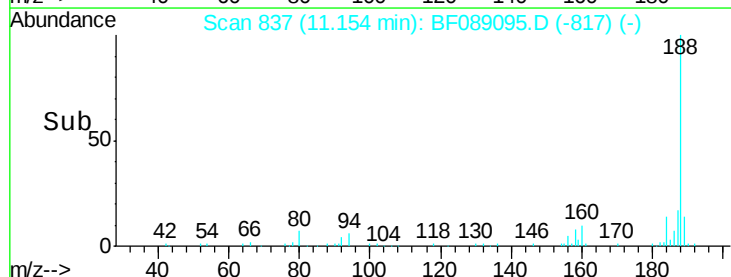
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 113554 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 6.3   | 9.0   | 13.6#  |
| 80       | 6.7   | 10.0  | 15.0#  |

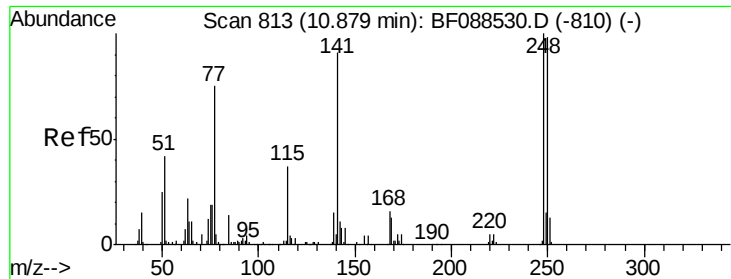


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

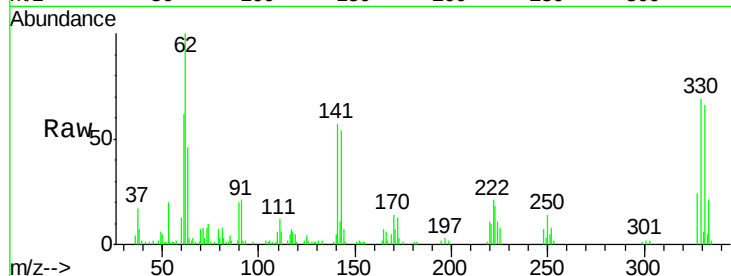




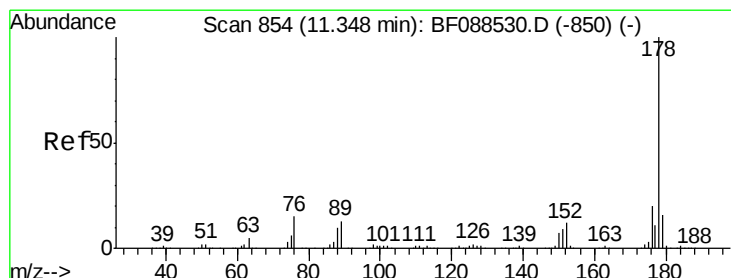
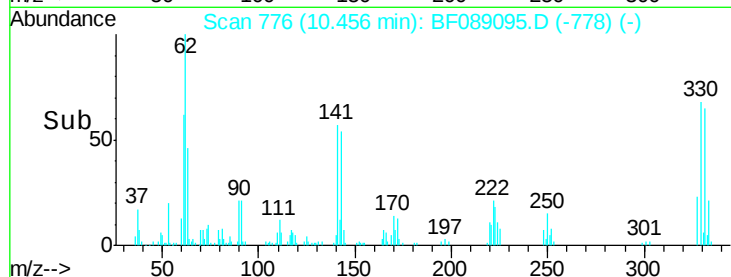
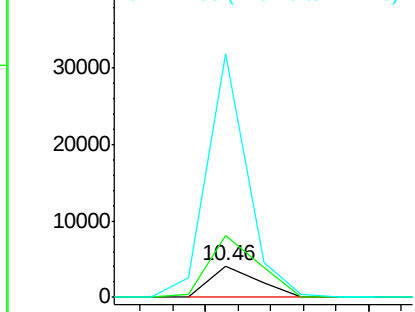
#66  
4-Bromophenyl-phenylether  
Concen: 3.55 ng  
RT: 10.46 min Scan# 776  
Delta R.T. -0.32 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Instrument :  
BNA\_F  
ClientSampleId :  
M9-B5(0-6)C

Tgt Ion:248 Resp: 4062  
Ion Ratio Lower Upper  
248 100  
250 196.9 77.1 115.7#  
141 779.1 50.6 76.0#

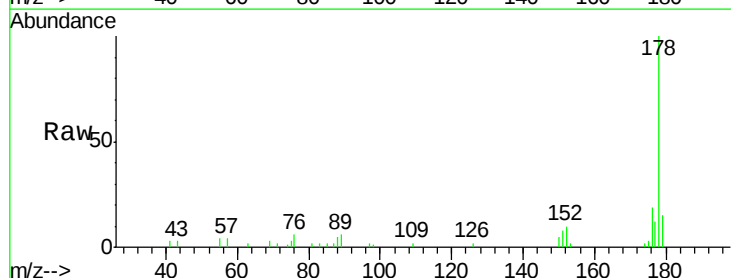


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

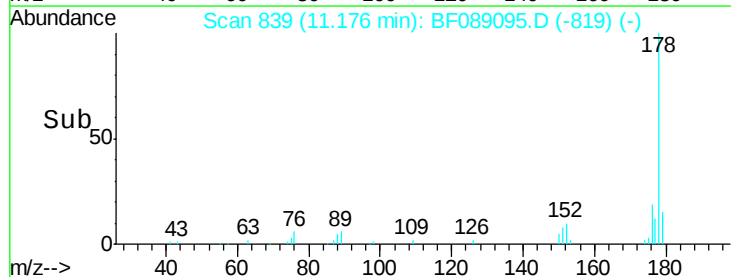
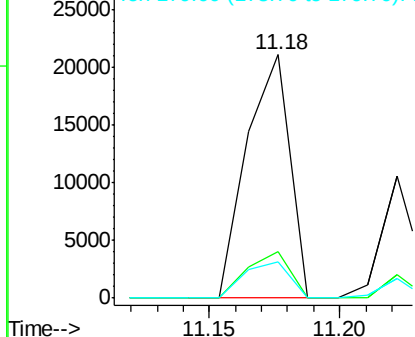


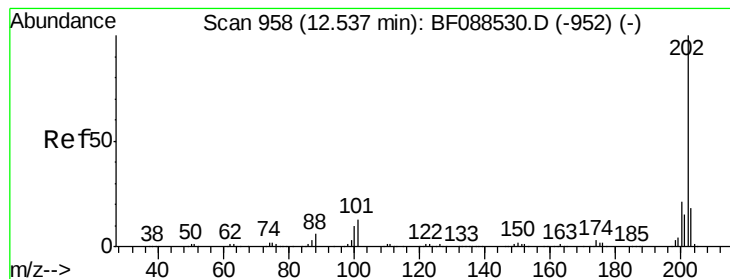
#70  
Phenanthrene  
Concen: 3.94 ng  
RT: 11.18 min Scan# 839  
Delta R.T. -0.07 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Tgt Ion:178 Resp: 24449  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.8 23.6  
179 15.1 13.0 19.4



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





#74

Fluoranthene

Concen: 8.16 ng

RT: 12.35 min Scan# 942

Delta R.T. -0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

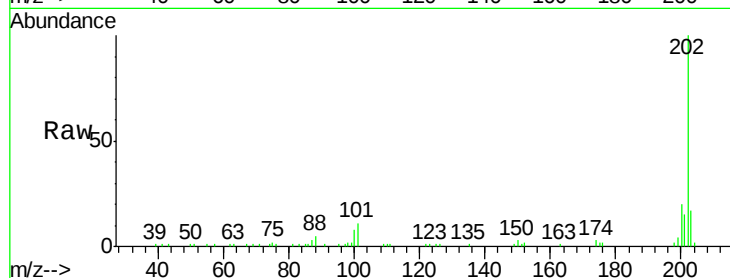
Tgt Ion:202 Resp: 51359

Ion Ratio Lower Upper

202 100

101 10.8 0.0 33.1

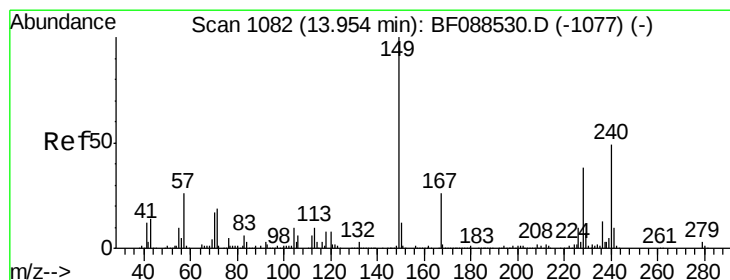
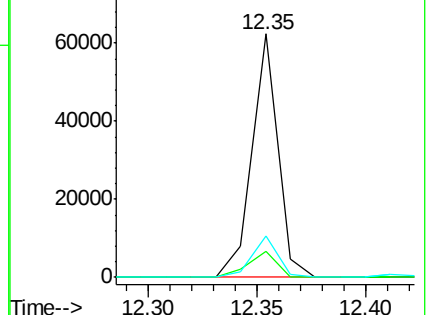
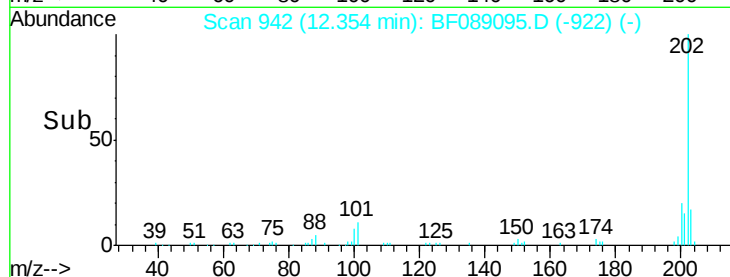
203 17.0 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1066

Delta R.T. -0.08 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

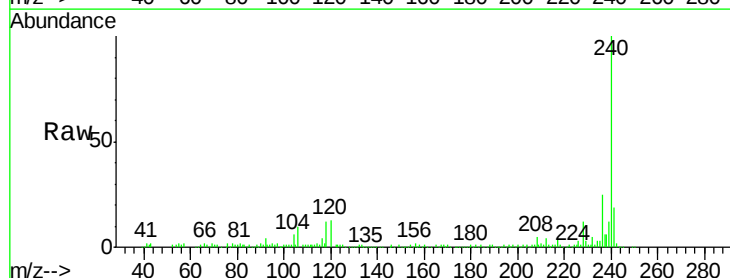
Tgt Ion:240 Resp: 95548

Ion Ratio Lower Upper

240 100

120 13.4 6.8 10.2#

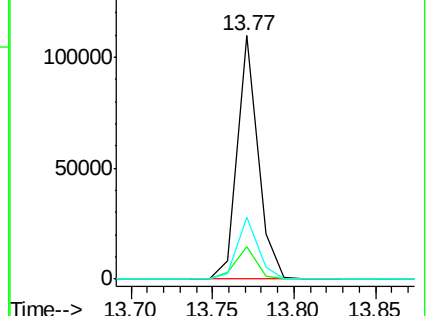
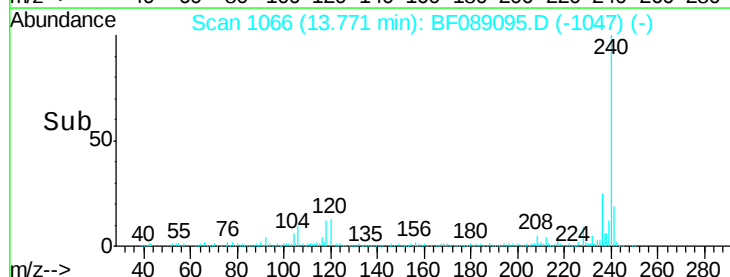
236 25.3 20.2 30.2

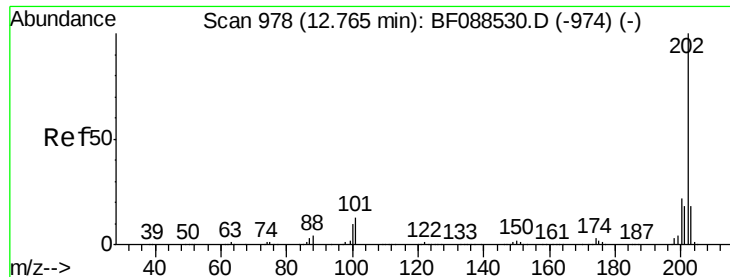


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 5.66 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

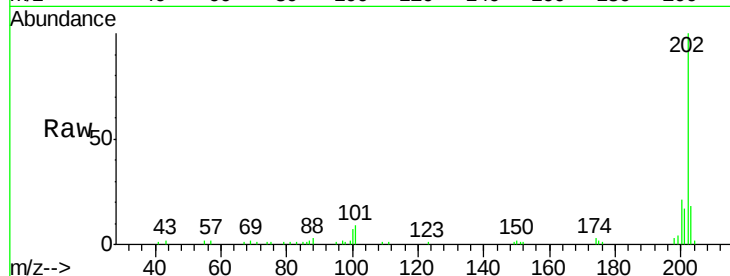
Tgt Ion: 202 Resp: 45833

Ion Ratio Lower Upper

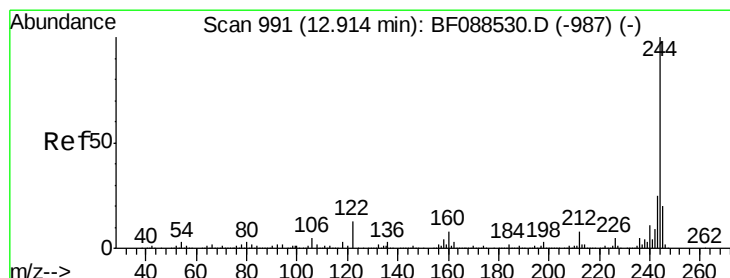
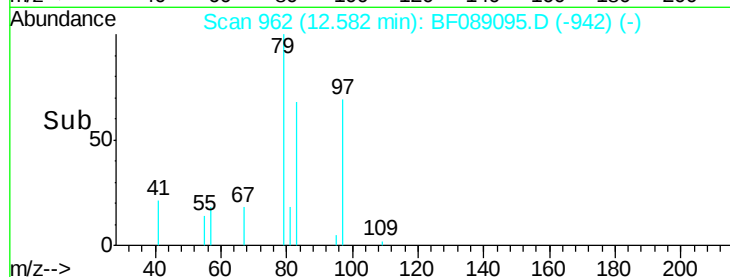
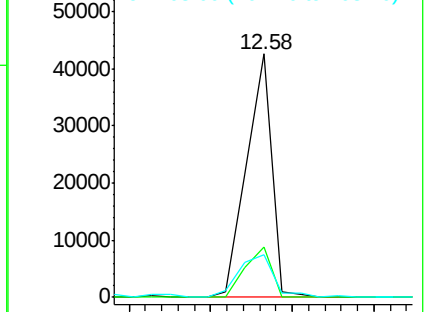
202 100

200 20.7 17.4 26.2

203 17.6 14.5 21.7



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: 51.49 ng

RT: 12.73 min Scan# 975

Delta R.T. -0.07 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

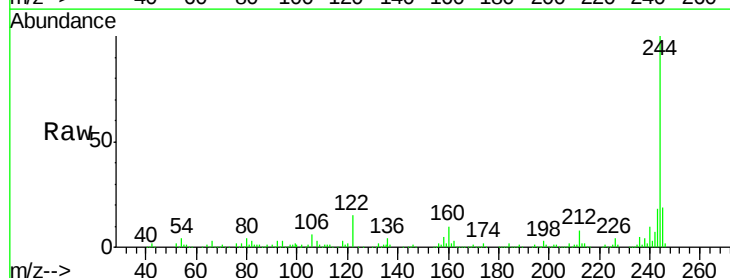
Tgt Ion: 244 Resp: 220870

Ion Ratio Lower Upper

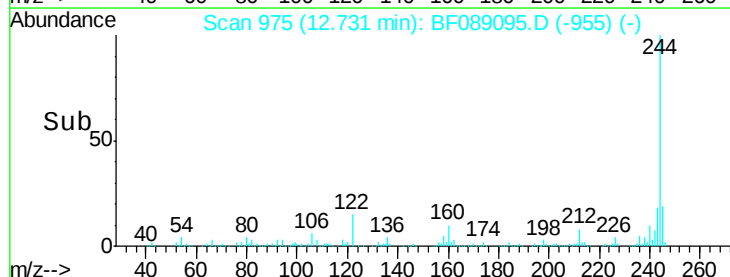
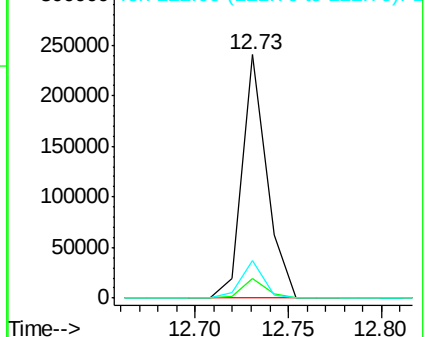
244 100

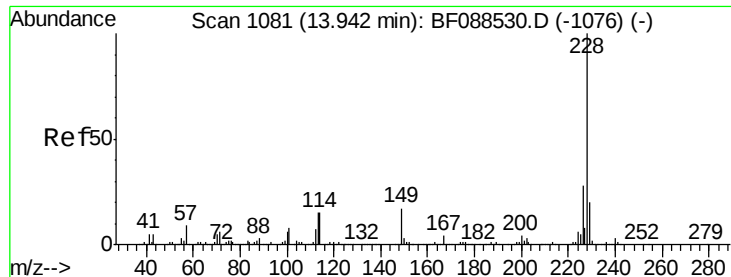
212 7.9 6.0 9.0

122 15.4 11.2 16.8



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





#80

Benzo(a)anthracene

Concen: 6.49 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

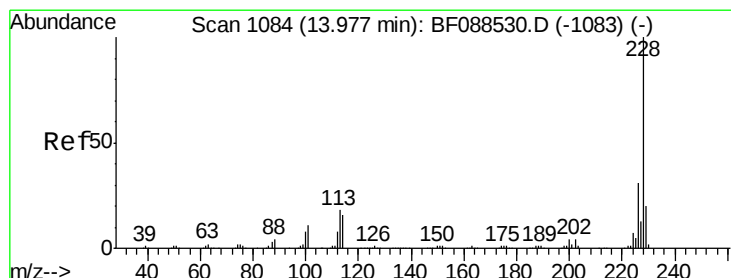
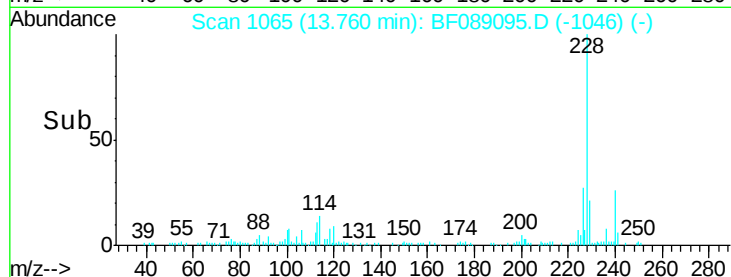
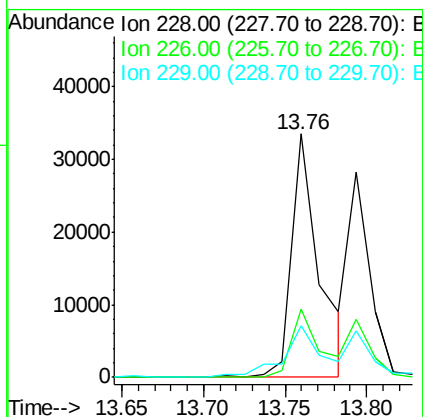
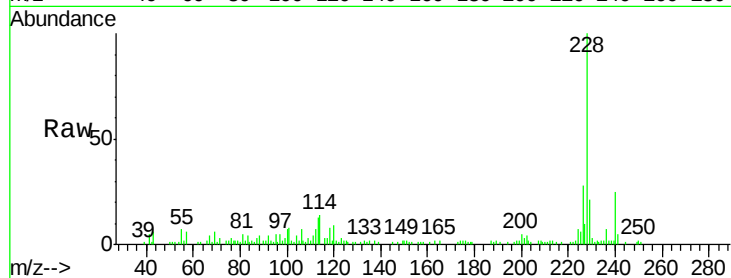
Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 39936 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 27.9  | 22.3  | 33.5  |
| 229      | 21.2  | 16.0  | 24.0  |



#82

Chrysene

Concen: 6.56 ng

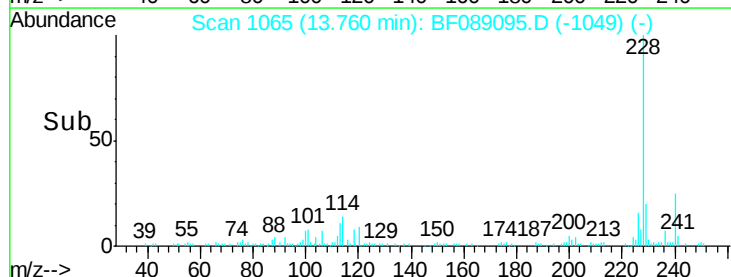
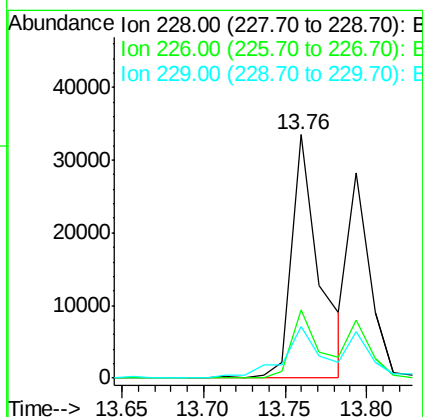
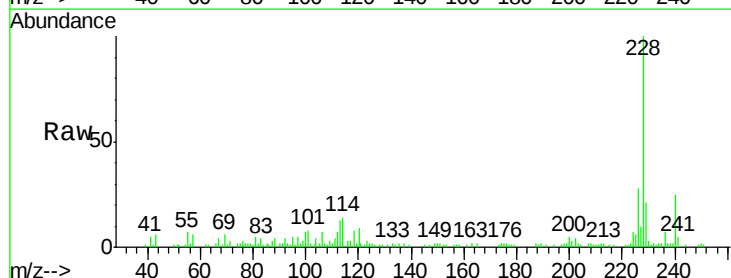
RT: 13.76 min Scan# 1065

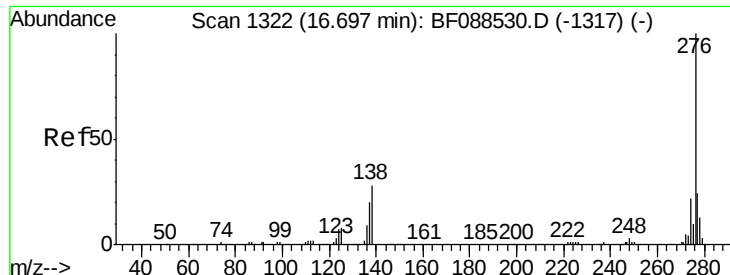
Delta R.T. -0.11 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 39936 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 27.9  | 25.4  | 38.2  |
| 229      | 21.2  | 16.3  | 24.5  |

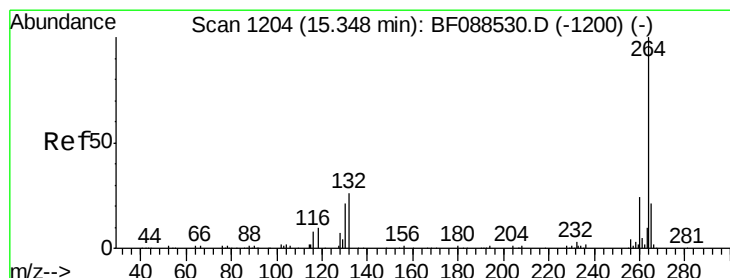
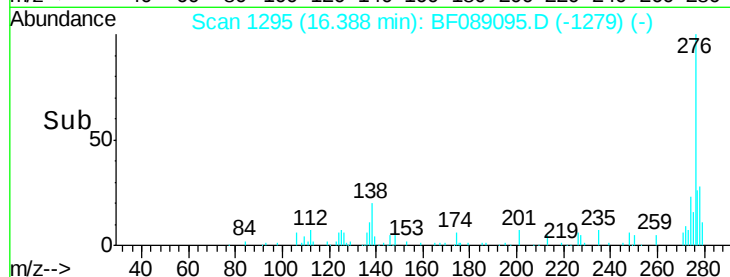
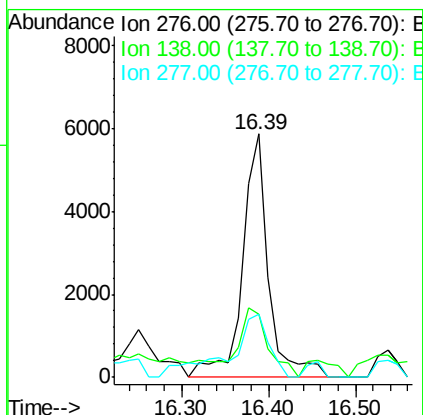
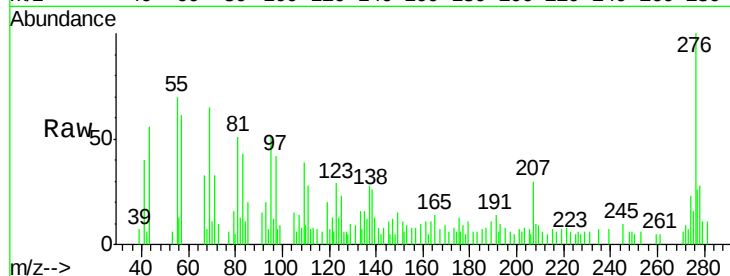




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.62 ng  
 RT: 16.39 min Scan# 1295  
 Delta R.T. -0.11 min  
 Lab File: BF089095.D  
 Acq: 18 Jul 2016 21:41

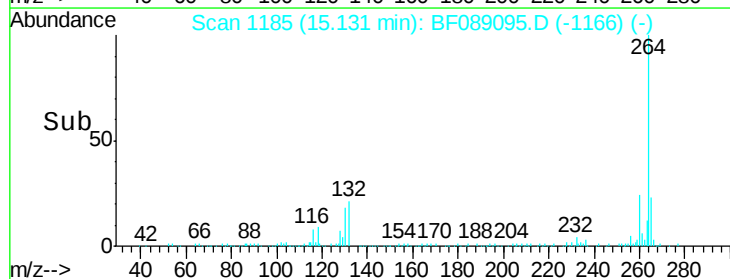
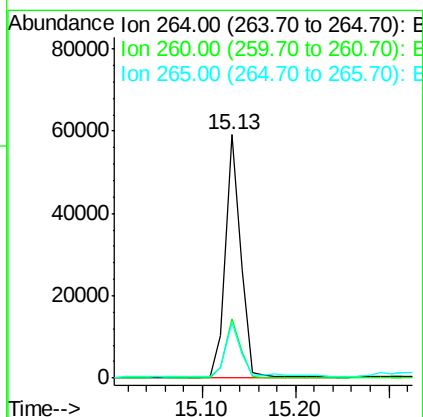
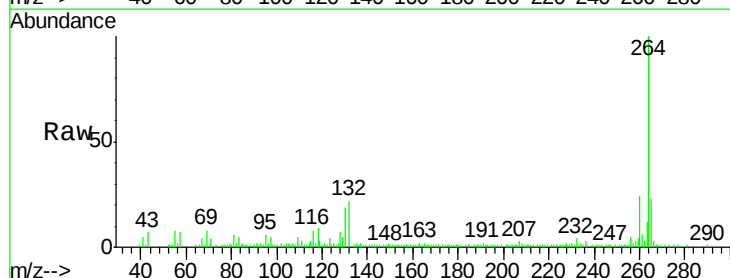
Instrument :  
 BNA\_F  
 ClientSampleId :  
 M9-B5(0-6)C

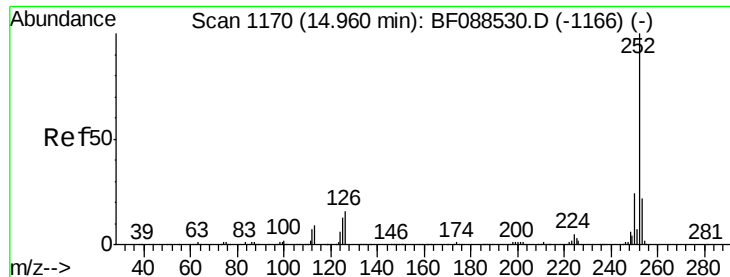
Tgt Ion: 276 Resp: 12262  
 Ion Ratio Lower Upper  
 276 100  
 138 34.0 0.0 0.0#  
 277 40.7 0.0 0.0#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.13 min Scan# 1185  
 Delta R.T. -0.08 min  
 Lab File: BF089095.D  
 Acq: 18 Jul 2016 21:41

Tgt Ion: 264 Resp: 68896  
 Ion Ratio Lower Upper  
 264 100  
 260 24.3 19.2 28.8  
 265 22.9 16.9 25.3

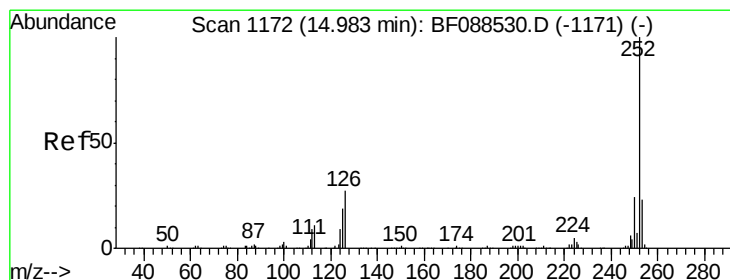
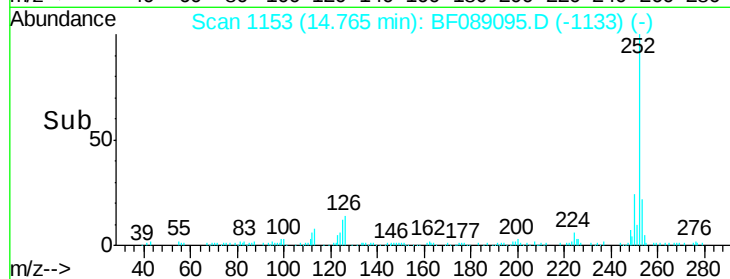
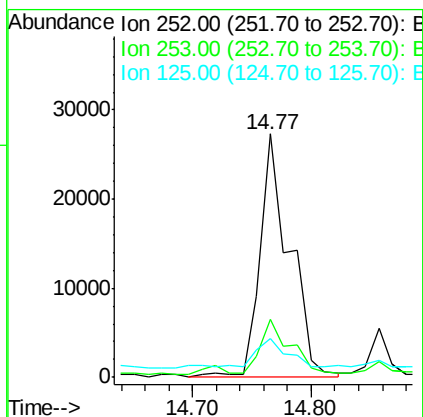
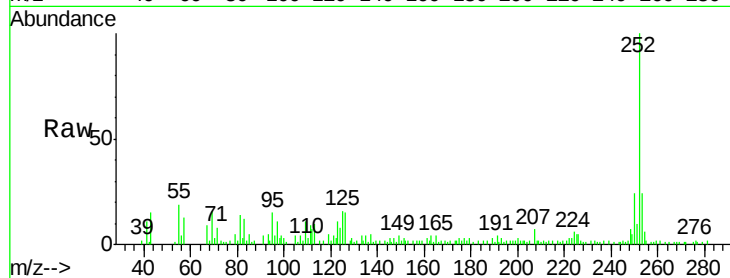




#87  
Benzo(b)fluoranthene  
Concen: 10.95 ng  
RT: 14.77 min Scan# 1153  
Delta R.T. -0.07 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

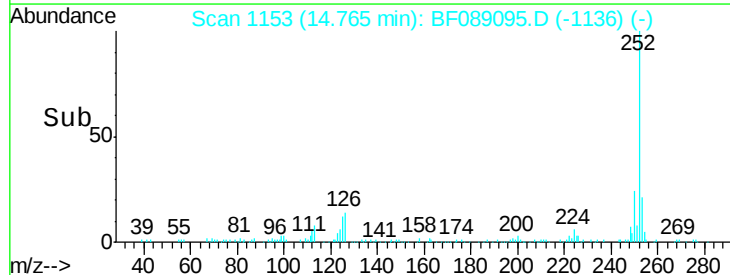
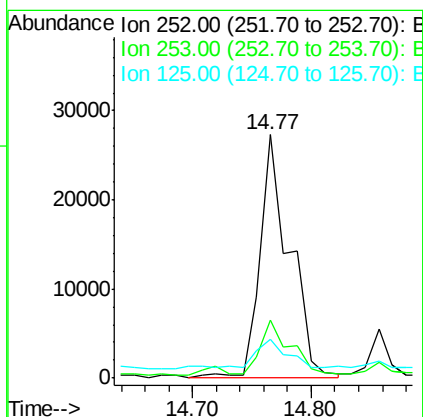
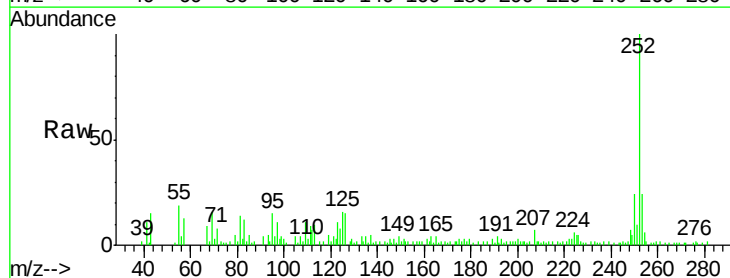
Instrument :  
BNA\_F  
ClientSampleId :  
M9-B5(0-6)C

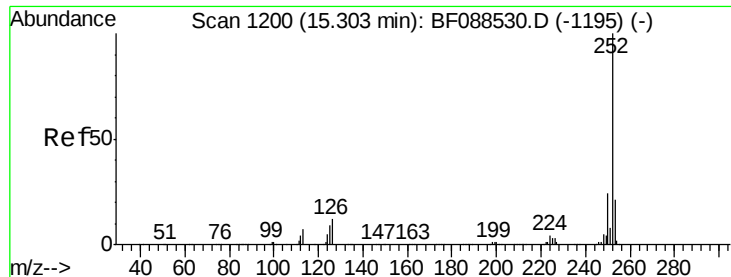
Tgt Ion:252 Resp: 47322  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.4 26.2  
125 15.8 7.1 10.7#



#88  
Benzo(k)fluoranthene  
Concen: 12.58 ng  
RT: 14.77 min Scan# 1153  
Delta R.T. -0.10 min  
Lab File: BF089095.D  
Acq: 18 Jul 2016 21:41

Tgt Ion:252 Resp: 47322  
Ion Ratio Lower Upper  
252 100  
253 23.7 18.0 27.0  
125 15.8 11.2 16.8





#89

Benzo(a)pyrene

Concen: 4.79 ng

RT: 15.03 min Scan# 1176

Delta R.T. -0.14 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

Instrument :

BNA\_F

ClientSampleId :

M9-B5(0-6)C

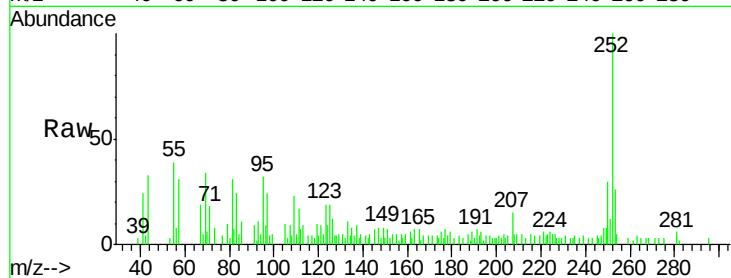
Tgt Ion:252 Resp: 17518

Ion Ratio Lower Upper

252 100

253 26.2 17.9 26.9

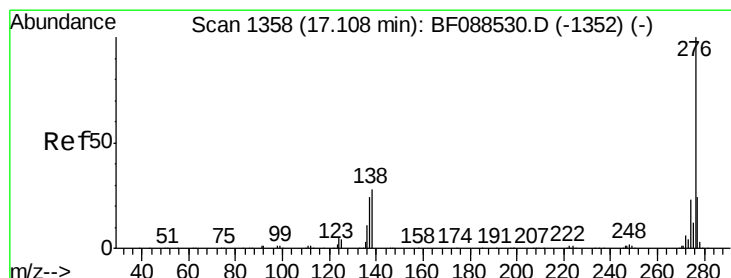
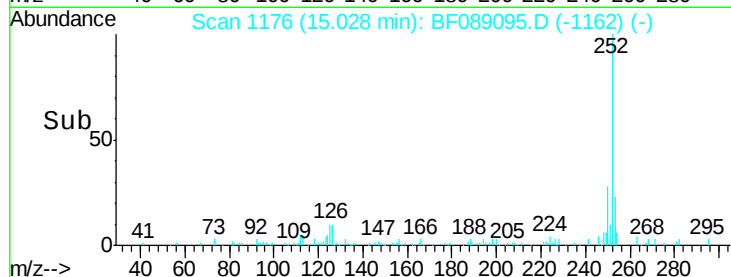
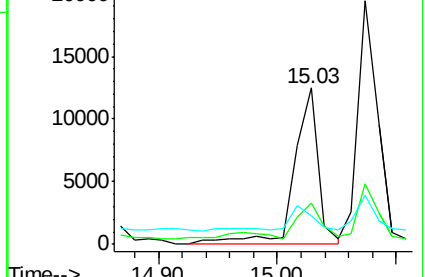
125 18.6 12.5 18.7



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



#91

Benzo(g,h,i)perylene

Concen: 2.99 ng

RT: 16.75 min Scan# 1327

Delta R.T. -0.14 min

Lab File: BF089095.D

Acq: 18 Jul 2016 21:41

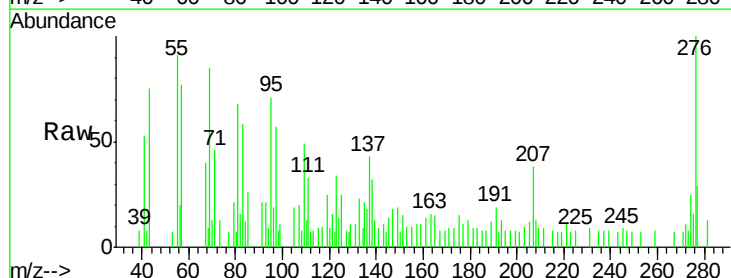
Tgt Ion:276 Resp: 9465

Ion Ratio Lower Upper

276 100

277 28.7 18.9 28.3#

138 32.0 21.4 32.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

