

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092215\  
 Data File : BF081747.D  
 Acq On : 22 Sep 2015 19:26  
 Operator : UM/IZ  
 Sample : G3654-05DL3 200X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 23 00:59:21 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF090115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 22 17:42:58 2015  
 Response via : Initial Calibration

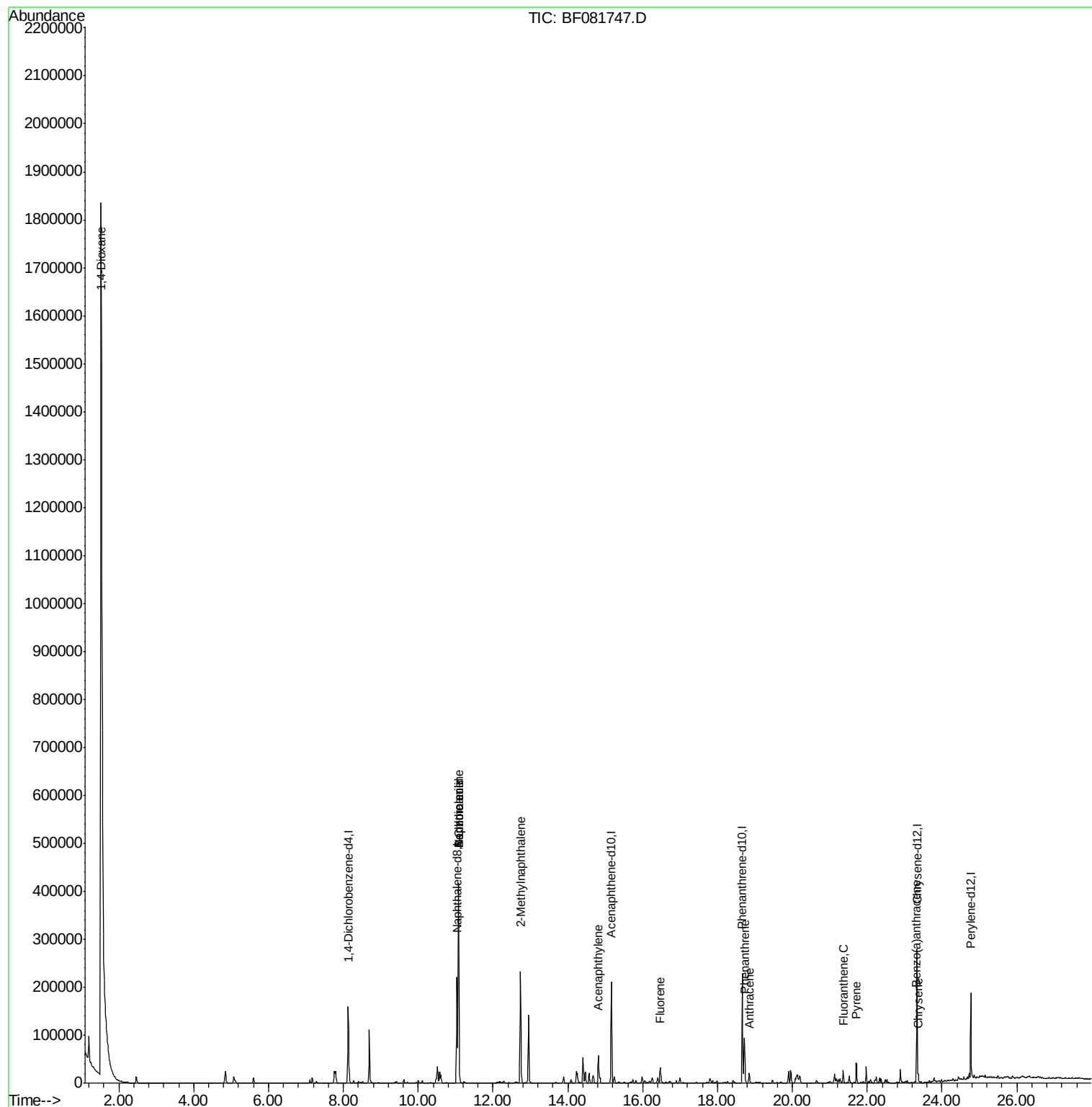
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.13  | 152  | 42125    | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 11.03 | 136  | 171433   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10        | 15.16 | 164  | 78494    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10        | 18.67 | 188  | 155541   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12            | 23.33 | 240  | 101057   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 24.77 | 264  | 75157    | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 0.00  | 112  | 0        | 0.00  | ng    |          |
| 7) Phenol-d6                | 0.00  | 99   | 0        | 0.00  | ng    |          |
| 23) Nitrobenzene-d5         | 0.00  | 82   | 0        | 0.00  | ng    |          |
| 41) 2,4,6-Tribromophenol    | 0.00  | 330  | 0        | 0.00  | ng    |          |
| 44) 2-Fluorobiphenyl        | 13.68 | 172  | 2652     | 0.43  | ng    | -0.01    |
| 78) Terphenyl-d14           | 22.05 | 244  | 3359     | 0.77  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 2) 1,4-Dioxane              | 1.52  | 88   | 116001   | 95.13 | ng    | # 14     |
| 31) Naphthalene             | 11.09 | 128  | 364398   | 39.86 | ng    | 99       |
| 32) Benzoic acid            | 11.09 | 122  | 765      | 2.91  | ng    | # 1      |
| 33) 4-Chloroaniline         | 11.09 | 127  | 45677    | 12.25 | ng    | # 38     |
| 37) 2-Methylnaphthalene     | 12.73 | 142  | 109529   | 18.41 | ng    | # 88     |
| 48) Acenaphthylene          | 14.81 | 152  | 50809    | 5.49  | ng    | 98       |
| 57) Fluorene                | 16.47 | 166  | 21781    | 3.73  | ng    | # 96     |
| 70) Phenanthrene            | 18.72 | 178  | 79973    | 9.25  | ng    | 96       |
| 71) Anthracene              | 18.85 | 178  | 20477    | 2.30  | ng    | 97       |
| 74) Fluoranthene            | 21.36 | 202  | 20293    | 2.17  | ng    | 85       |
| 77) Pyrene                  | 21.72 | 202  | 33984    | 4.54  | ng    | 99       |
| 80) Benzo(a)anthracene      | 23.32 | 228  | 14659    | 2.28  | ng    | # 81     |
| 82) Chrysene                | 23.36 | 228  | 13158    | 2.28  | ng    | # 88     |

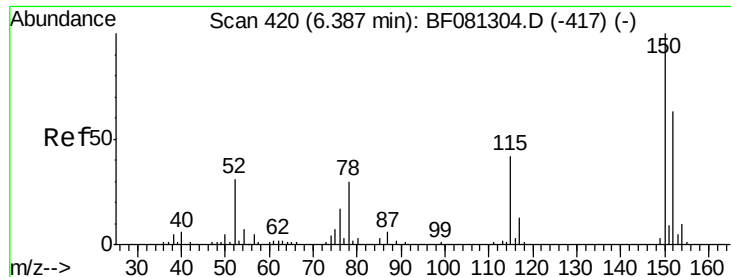
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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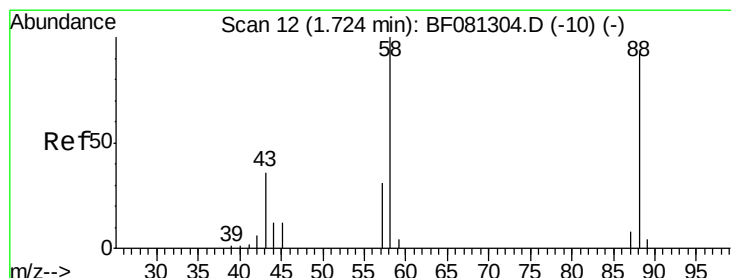
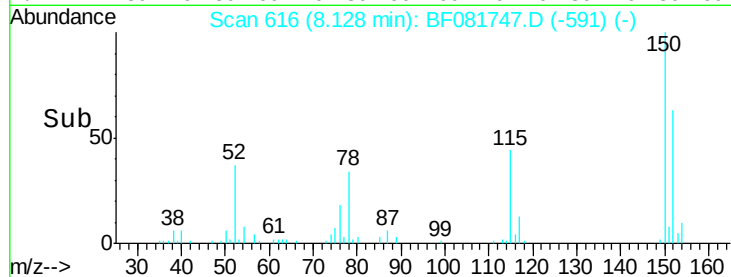
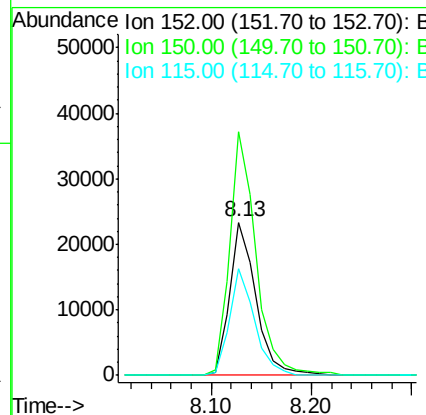
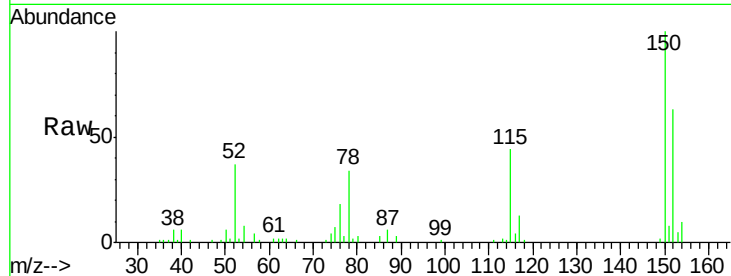


#1

1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.13 min Scan# 616  
Delta R.T. -0.01 min  
Lab File: BF081747.D  
Acq: 22 Sep 2015 19:26

Instrument :  
BNA\_F  
ClientSampled :

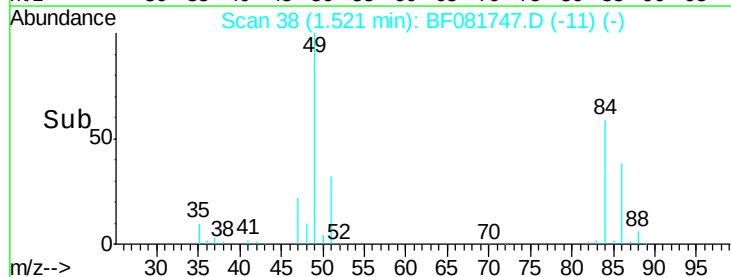
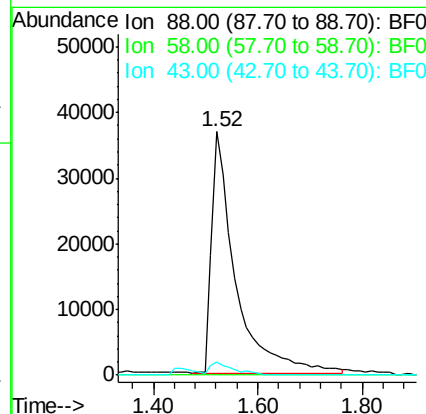
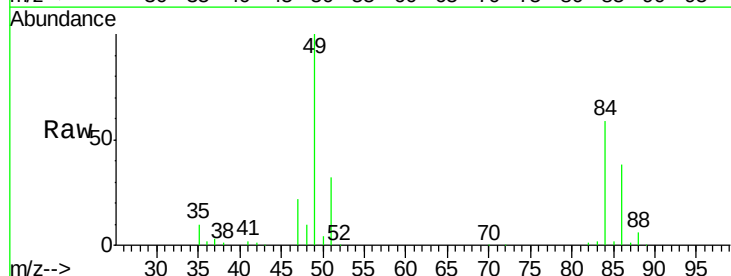
Tot Ion:152 Resp: 42125  
Ion Ratio Lower Upper  
152 100  
150 159.4 124.7 187.1  
115 69.8 39.0 58.4#

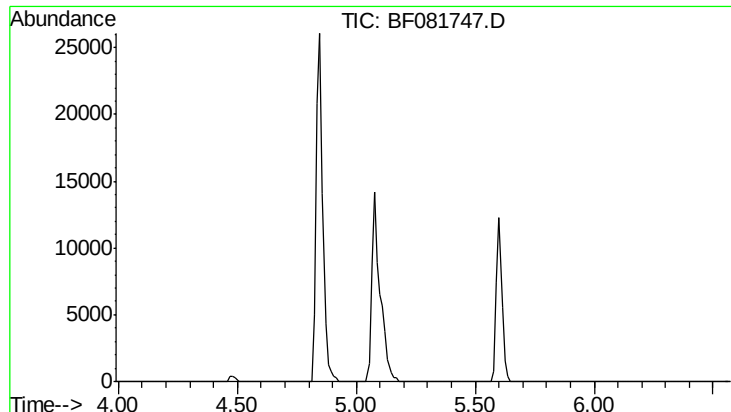


#2

1,4-Dioxane  
Concen: 95.13 ng  
RT: 1.52 min Scan# 38  
Delta R.T. 0.01 min  
Lab File: BF081747.D  
Acq: 22 Sep 2015 19:26

Tgt Ion: 88 Resp: 116001  
Ion Ratio Lower Upper  
88 100  
58 0.0 77.7 116.5#  
43 5.2 26.6 40.0#

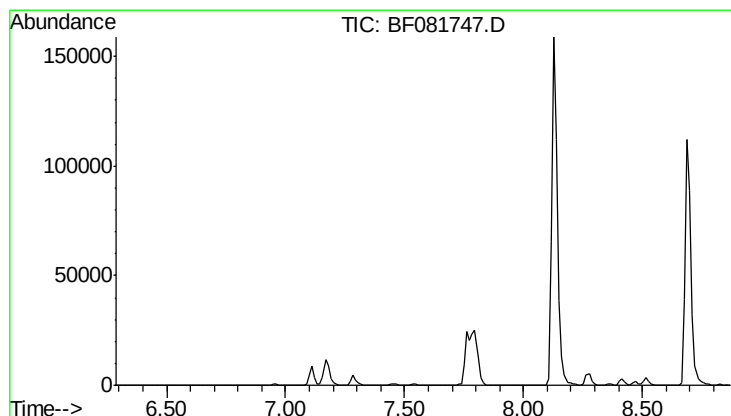
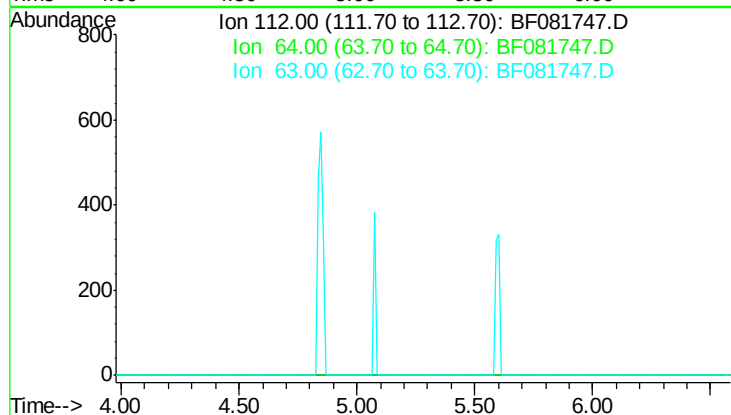




#5  
 2-Fluorophenol  
 Concen: 0.00 ng  
 Expected RT: 5.28 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

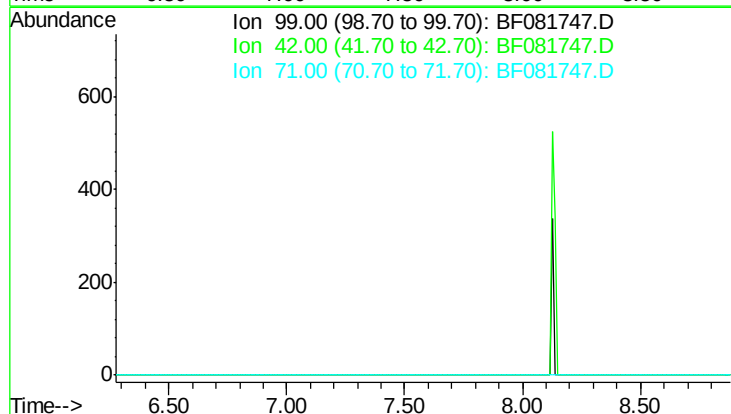
Instrument :  
 BNA\_F  
 ClientSampleId :

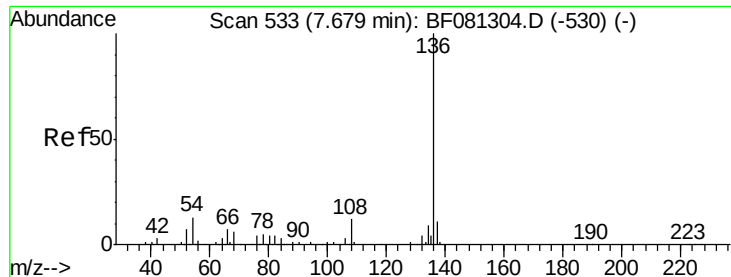
Tot Ion: 112  
 Sig Exp Ratio  
 112 100  
 64 49.6  
 63 21.7



#7  
 Phenol-d6  
 Concen: 0.00 ng  
 Expected RT: 7.58 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Tgt Ion: 99  
 Sig Exp Ratio  
 99 100  
 42 17.1  
 71 17.7





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.03 min Scan# 870

Delta R.T. -0.01 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 171433

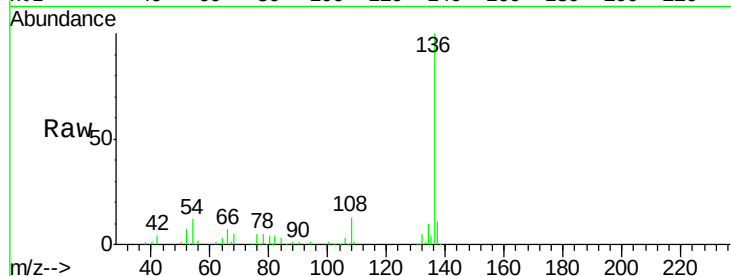
Ion Ratio Lower Upper

136 100

137 10.8 9.0 13.6

54 12.0 8.2 12.2

68 4.6 5.8 8.6#

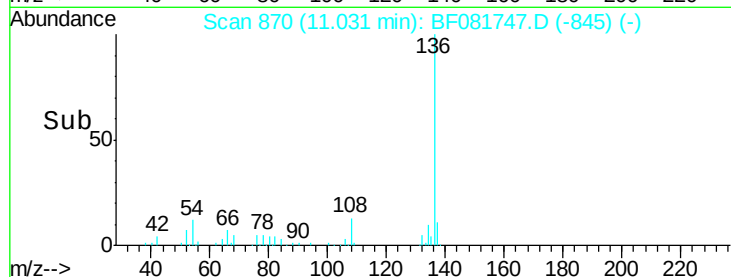


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

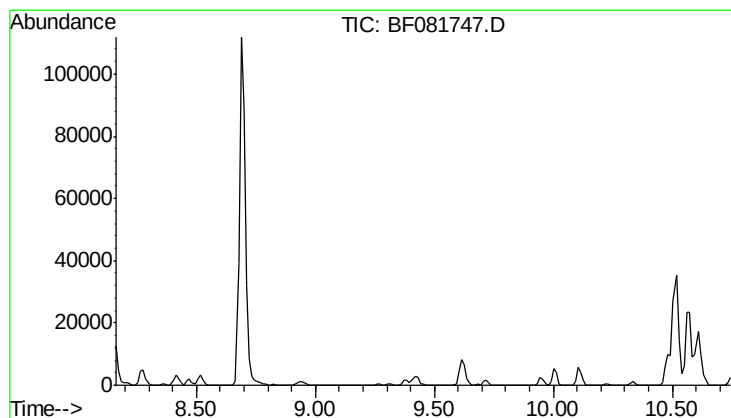
Ion 68.00 (67.70 to 68.70): BF0



Abundance

11.03

Time--> 10.90 11.00 11.10



#23

Nitrobenzene-d5

Concen: 0.00 ng

Expected RT: 9.45 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

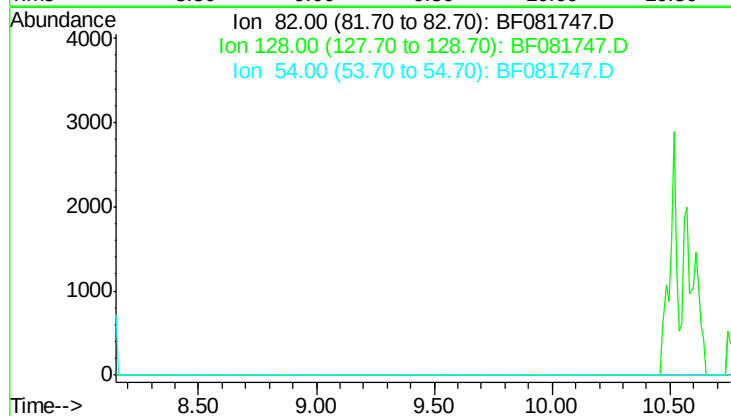
Tgt Ion: 82

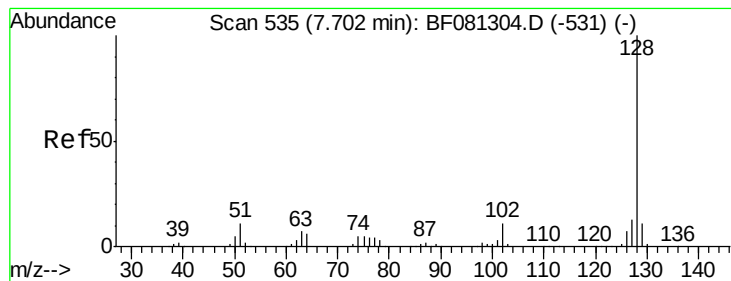
Sig Exp Ratio

82 100

128 63.8

54 59.4





#31

Naphthalene

Concen: 39.86 ng

RT: 11.09 min Scan# 875

Delta R.T. 0.00 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

Instrument :

BNA\_F

ClientSampleId :

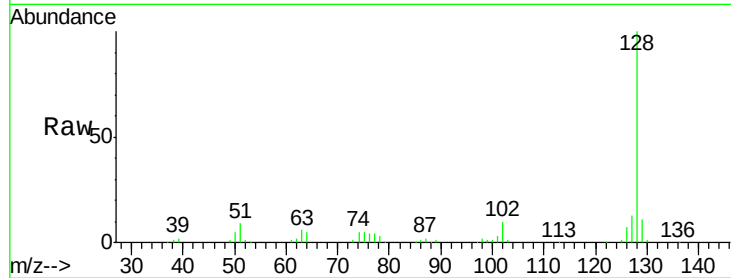
Tot Ion:128 Resp: 364398

Ion Ratio Lower Upper

128 100

129 10.5 8.4 12.6

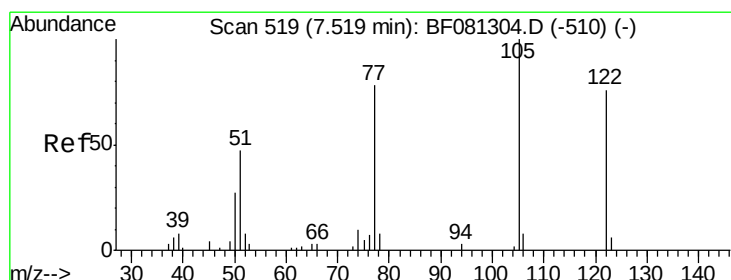
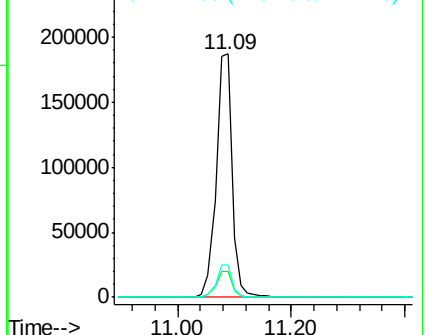
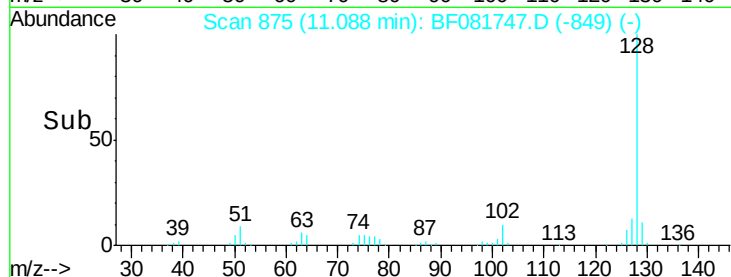
127 13.3 9.9 14.9



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32

Benzoic acid

Concen: 2.91 ng

RT: 11.09 min Scan# 875

Delta R.T. 0.01 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

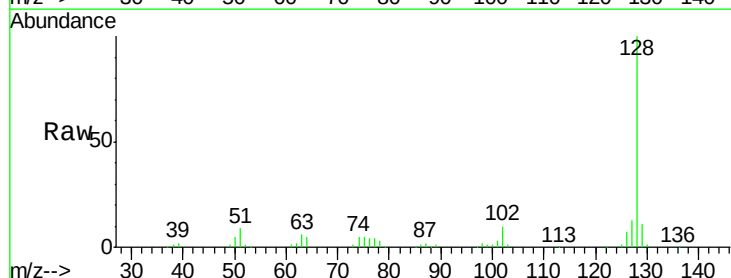
Tgt Ion:122 Resp: 765

Ion Ratio Lower Upper

122 100

105 0.0 76.1 116.1#

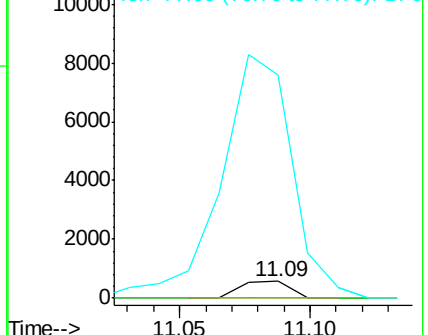
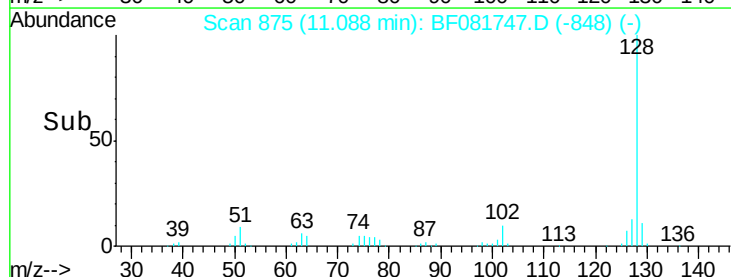
77 1336.9 40.5 80.5#

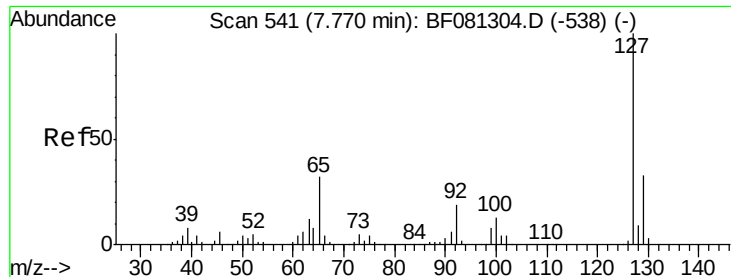


Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0

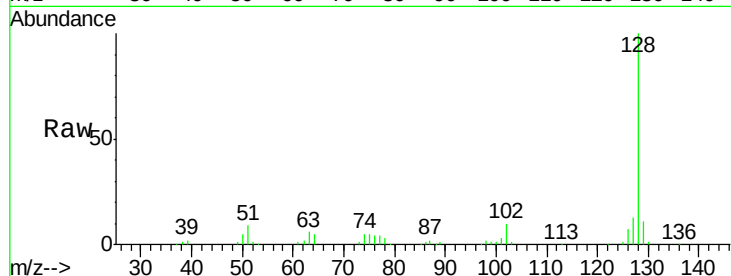




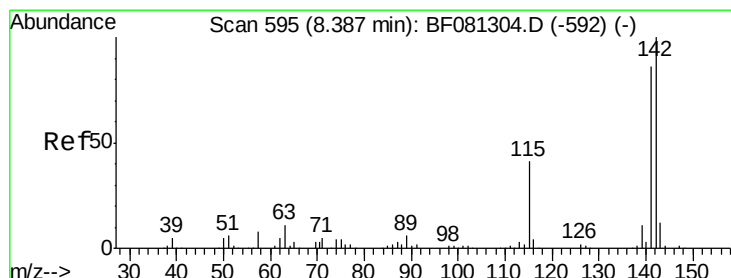
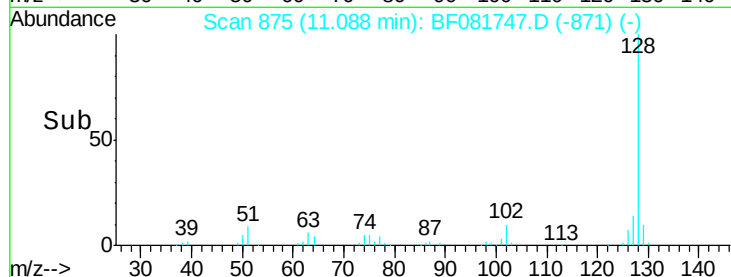
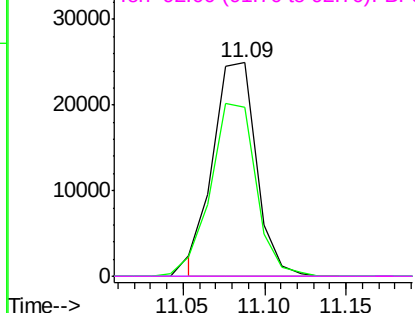
#33  
 4-Chloroaniline  
 Concen: 12.25 ng  
 RT: 11.09 min Scan# 875  
 Delta R.T. -0.25 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:127 Resp: 45677  
 Ion Ratio Lower Upper  
 127 100  
 129 78.9 25.8 38.6#  
 65 0.0 17.9 26.9#  
 92 0.0 10.5 15.7#

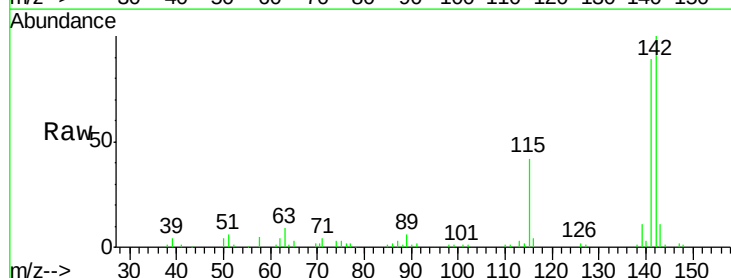


Abundance Ion 127.00 (126.70 to 127.70): E  
 Ion 129.00 (128.70 to 129.70): E  
 Ion 65.00 (64.70 to 65.70): BF0  
 Ion 92.00 (91.70 to 92.70): BF0

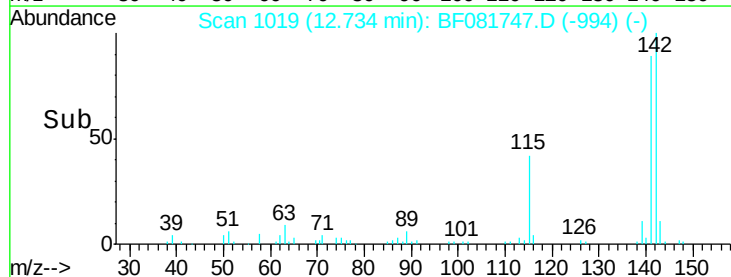
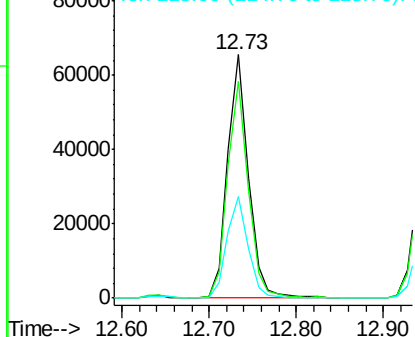


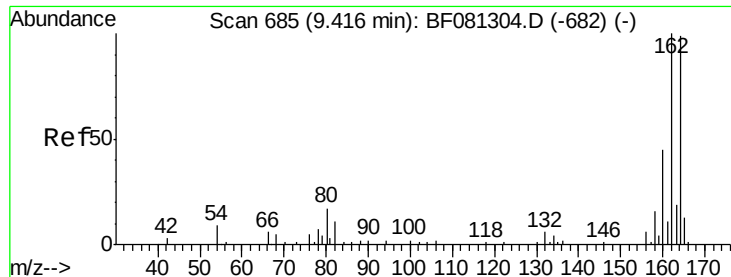
#37  
 2-Methylnaphthalene  
 Concen: 18.41 ng  
 RT: 12.73 min Scan# 1019  
 Delta R.T. -0.01 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Tgt Ion:142 Resp: 109529  
 Ion Ratio Lower Upper  
 142 100  
 141 88.8 67.5 101.3  
 115 41.6 18.2 27.2#



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: 15.16 min Scan# 1231

Delta R.T. -0.01 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

Instrument :

BNA\_F

ClientSampleId :

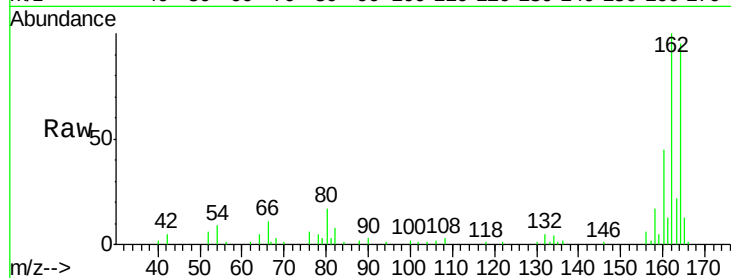
Tot Ion:164 Resp: 78494

Ion Ratio Lower Upper

164 100

162 105.4 75.2 112.8

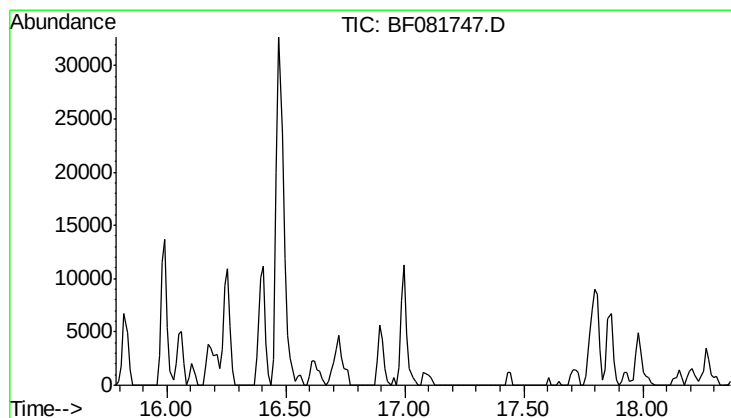
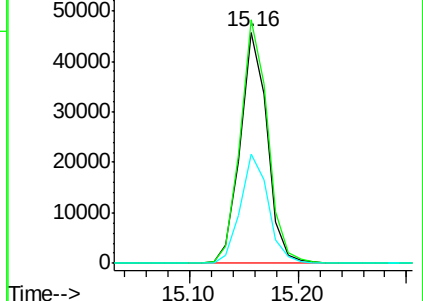
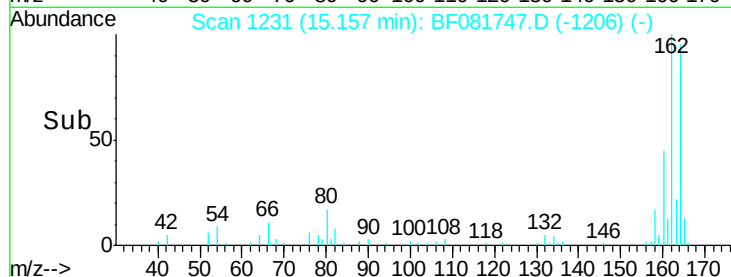
160 47.3 31.5 47.3



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: 0.00 ng

Expected RT: 17.08 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

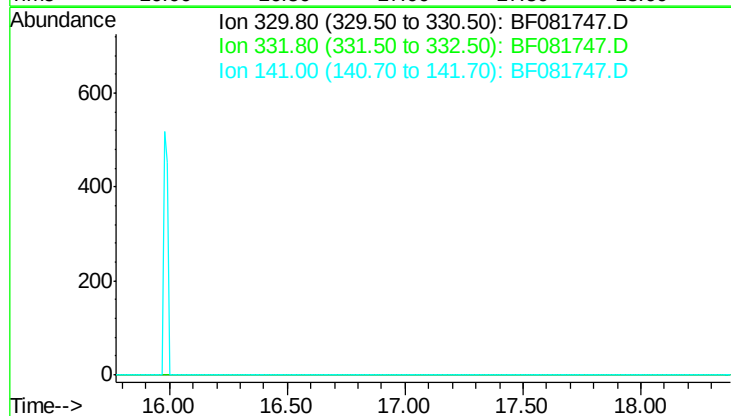
Tgt Ion: 330

Sig Exp Ratio

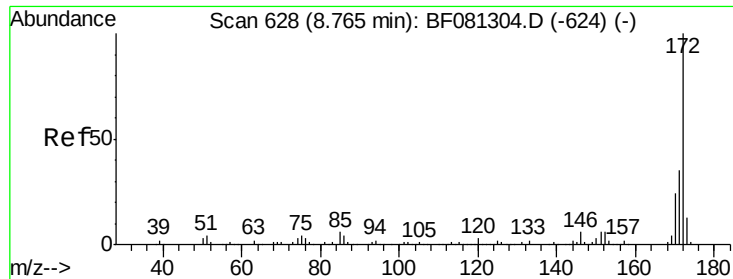
330 100

332 95.7

141 37.1



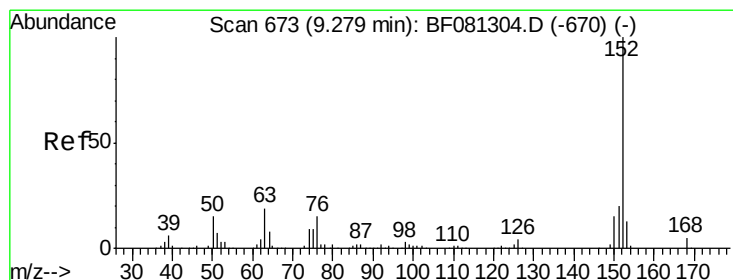
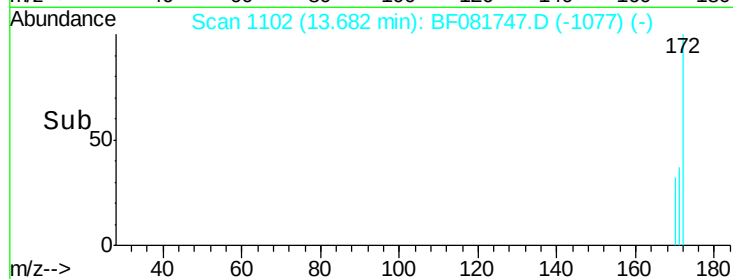
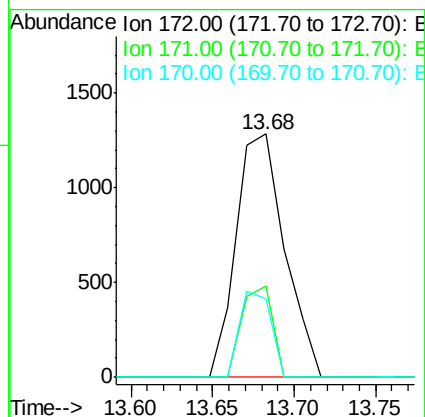
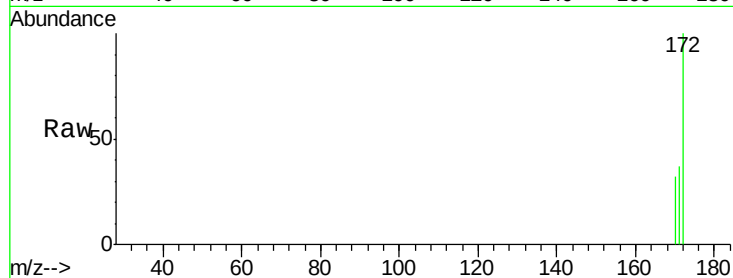




#44  
 2-Fluorobiphenyl  
 Concen: 0.43 ng  
 RT: 13.68 min Scan# 1102  
 Delta R.T. -0.01 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

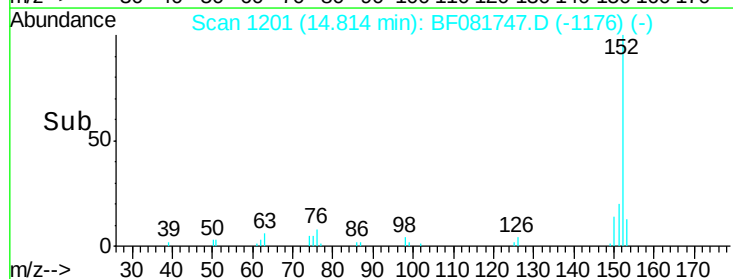
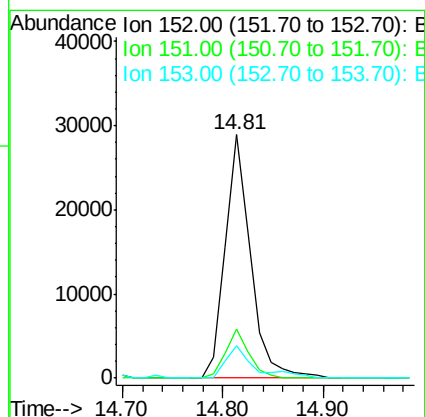
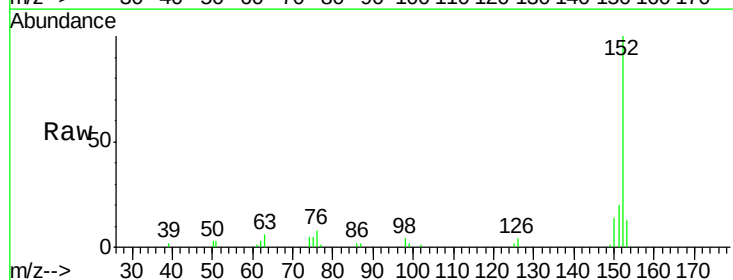
Instrument :  
 BNA\_F  
 ClientSampleId :

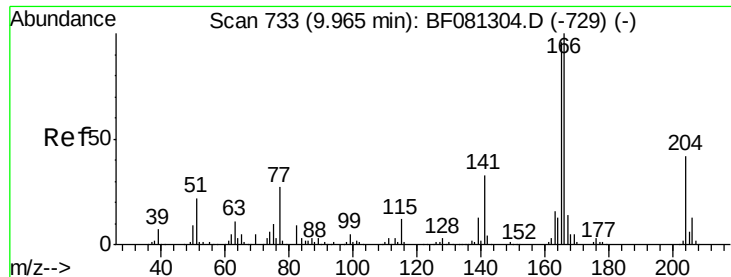
Tot Ion:172 Resp: 2652  
 Ion Ratio Lower Upper  
 172 100  
 171 37.5 26.1 39.1  
 170 32.2 17.4 26.2#



#48  
 Acenaphthylene  
 Concen: 5.49 ng  
 RT: 14.81 min Scan# 1201  
 Delta R.T. -0.01 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Tgt Ion:152 Resp: 50809  
 Ion Ratio Lower Upper  
 152 100  
 151 19.9 14.6 22.0  
 153 13.2 10.3 15.5

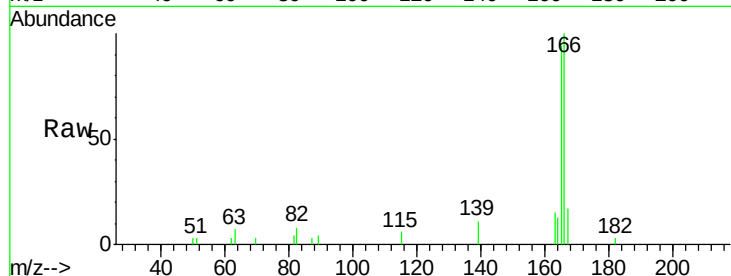




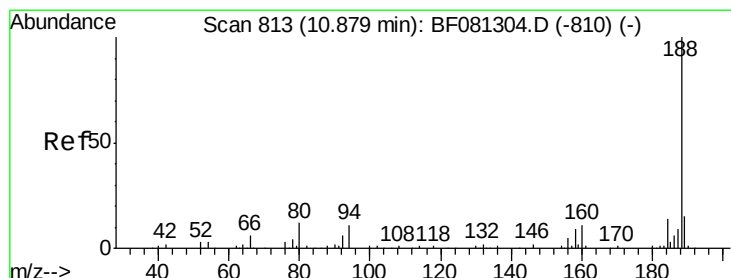
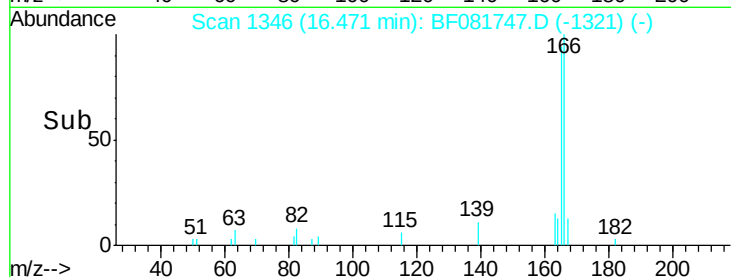
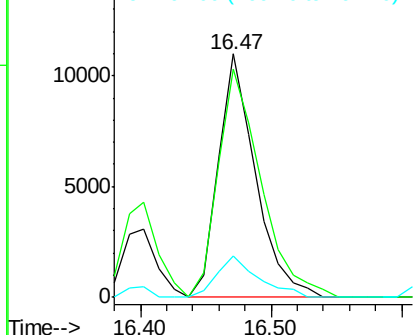
#57  
 Fluorene  
 Concen: 3.73 ng  
 RT: 16.47 min Scan# 1346  
 Delta R.T. -0.01 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:166 Resp: 21781  
 Ion Ratio Lower Upper  
 166 100  
 165 93.6 72.6 109.0  
 167 16.8 10.6 16.0#

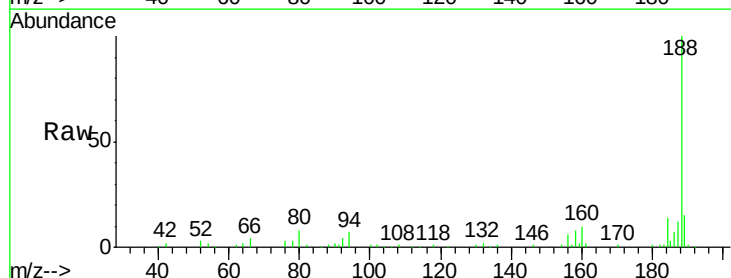


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

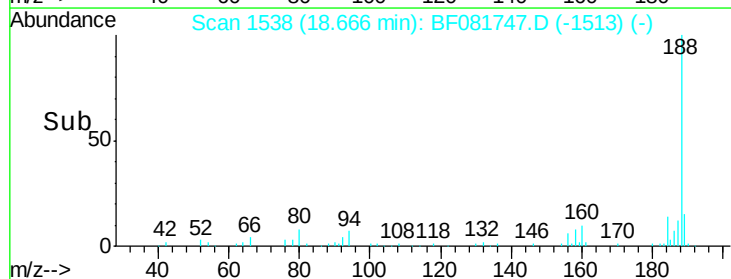
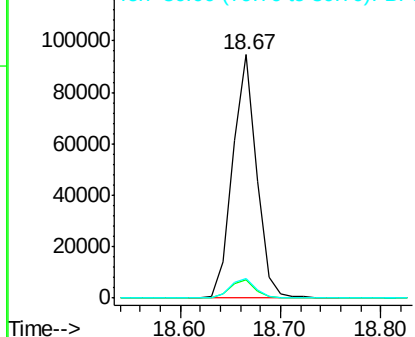


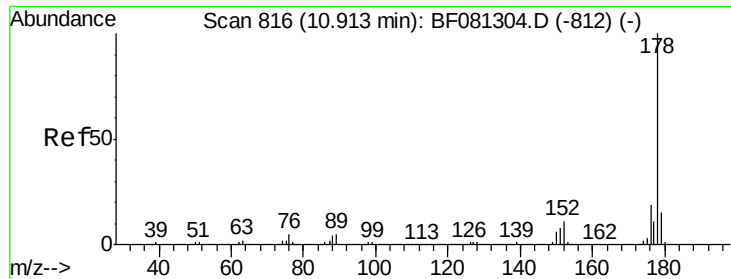
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 18.67 min Scan# 1538  
 Delta R.T. -0.01 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Tgt Ion:188 Resp: 155541  
 Ion Ratio Lower Upper  
 188 100  
 94 7.3 11.1 16.7#  
 80 8.1 11.0 16.4#



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

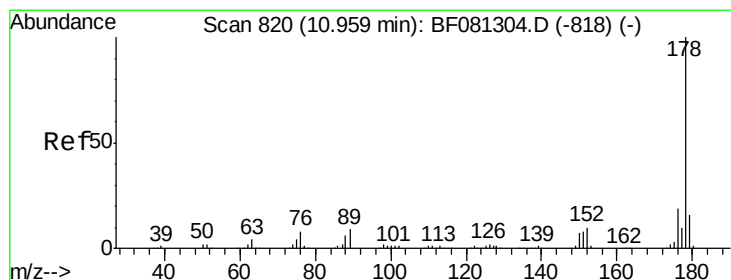
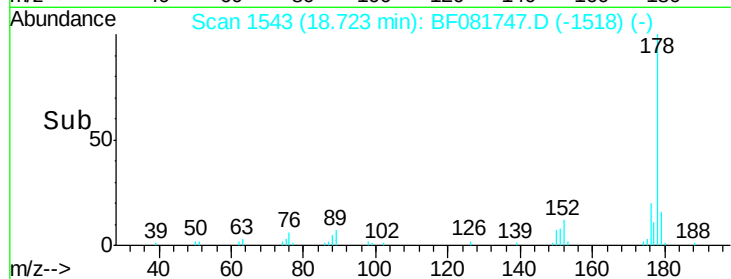
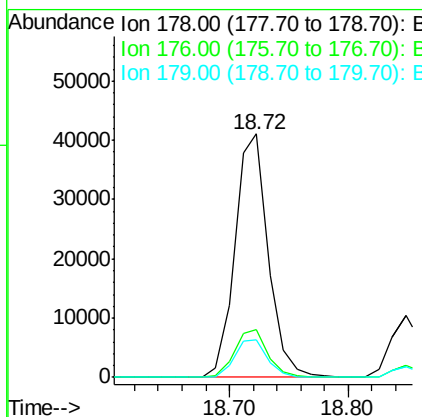
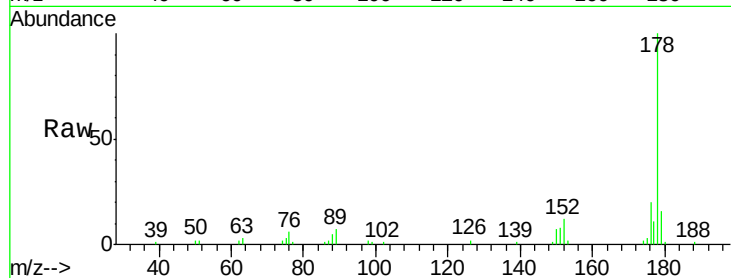




#70  
Phenanthrene  
Concen: 9.25 ng  
RT: 18.72 min Scan# 1543  
Delta R.T. -0.01 min  
Lab File: BF081747.D  
Acq: 22 Sep 2015 19:26

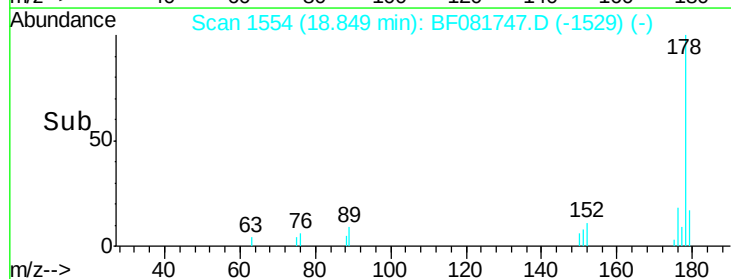
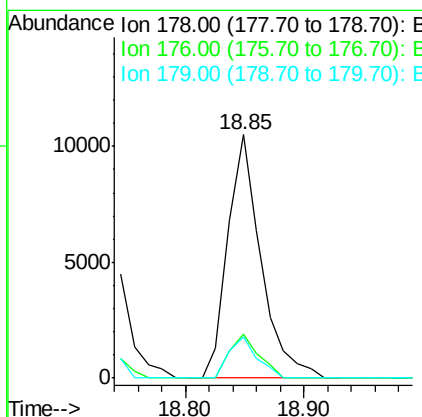
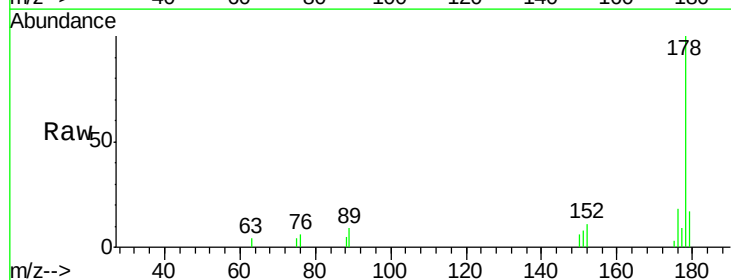
Instrument :  
BNA\_F  
ClientSampleId :

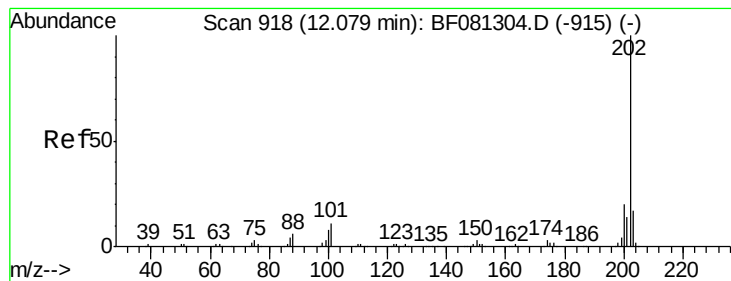
Tot Ion:178 Resp: 79973  
Ion Ratio Lower Upper  
178 100  
176 19.8 13.8 20.8  
179 15.6 12.2 18.2



#71  
Anthracene  
Concen: 2.30 ng  
RT: 18.85 min Scan# 1554  
Delta R.T. -0.01 min  
Lab File: BF081747.D  
Acq: 22 Sep 2015 19:26

Tgt Ion:178 Resp: 20477  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.1 21.1  
179 17.2 12.2 18.2





#74

Fluoranthene

Concen: 2.17 ng

RT: 21.36 min Scan# 1774

Delta R.T. 0.00 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

Instrument :

BNA\_F

ClientSampleId :

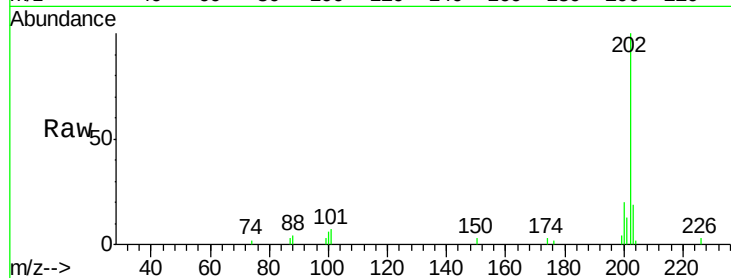
Tot Ion:202 Resp: 20293

Ion Ratio Lower Upper

202 100

101 7.4 0.0 38.3

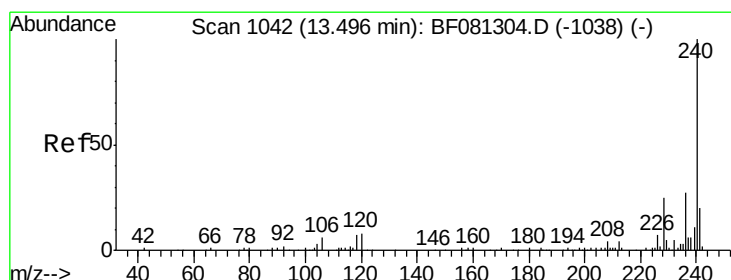
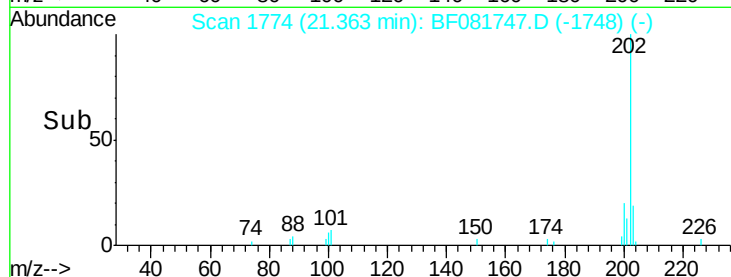
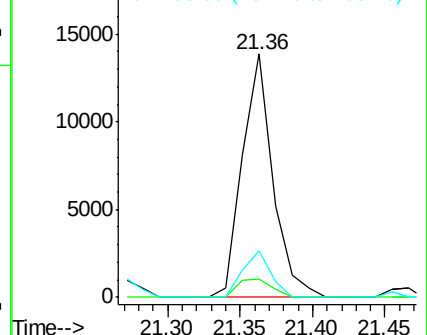
203 19.2 0.0 37.3



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: 23.33 min Scan# 1946

Delta R.T. 0.00 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

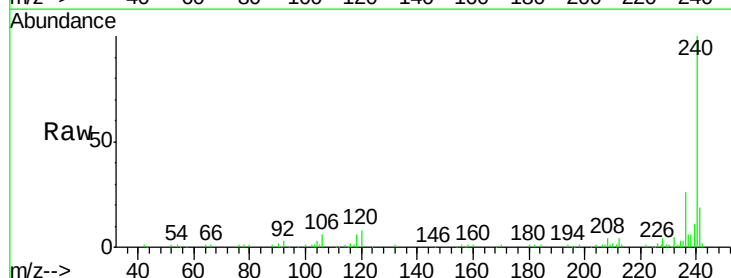
Tgt Ion:240 Resp: 101057

Ion Ratio Lower Upper

240 100

120 7.8 16.2 24.2#

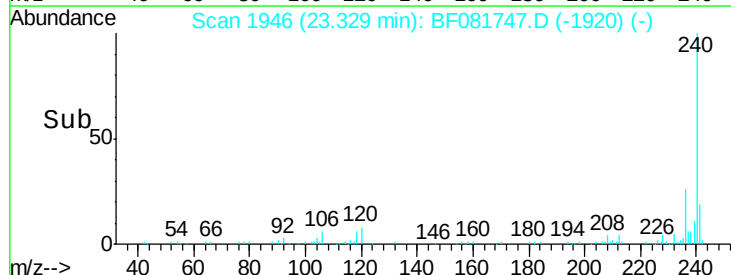
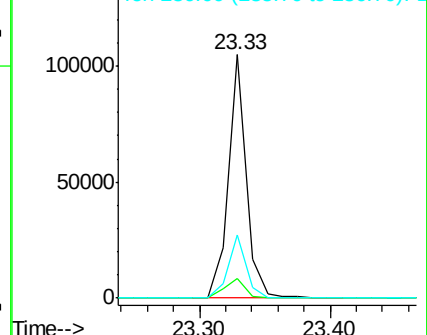
236 26.0 18.4 27.6

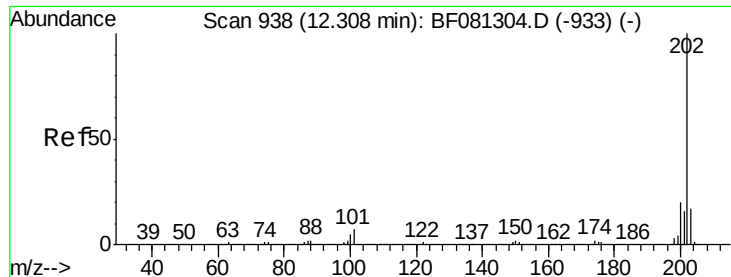


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

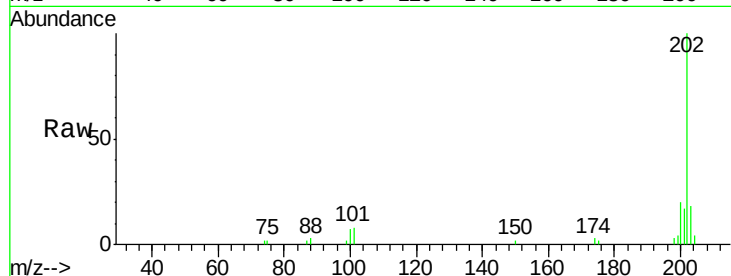




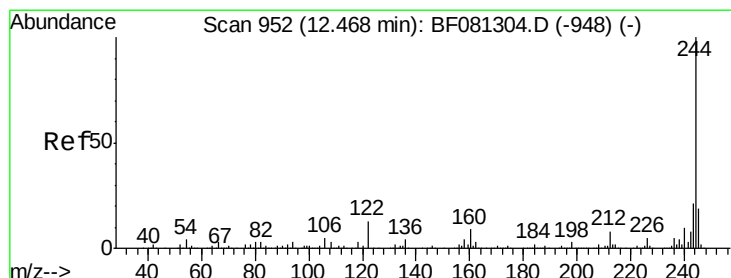
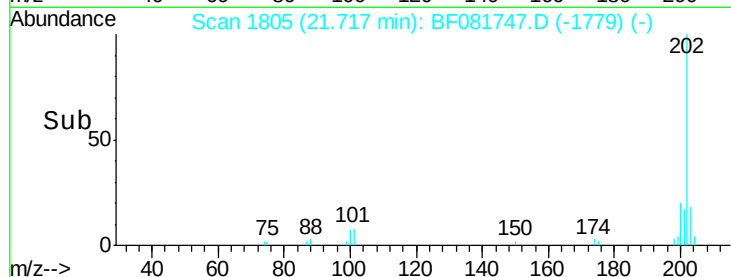
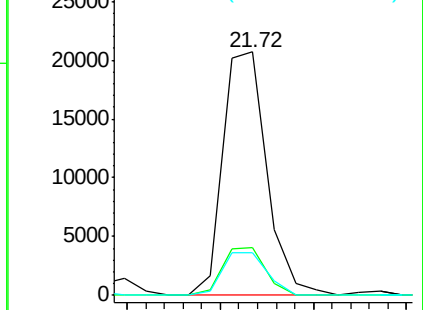
#77  
 Pvrene  
 Concen: 4.54 ng  
 RT: 21.72 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:202 Resp: 33984  
 Ion Ratio Lower Upper  
 202 100  
 200 19.7 15.0 22.4  
 203 17.8 14.1 21.1

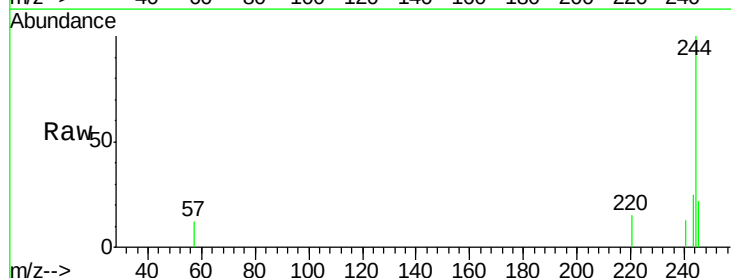


Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E

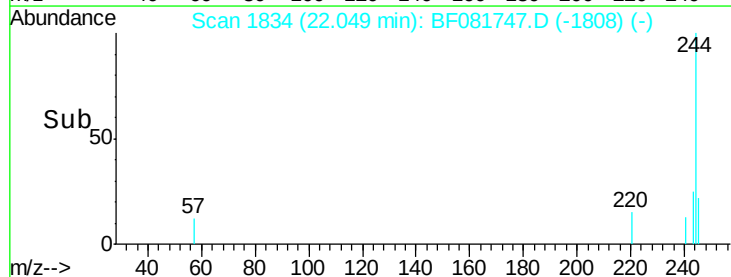
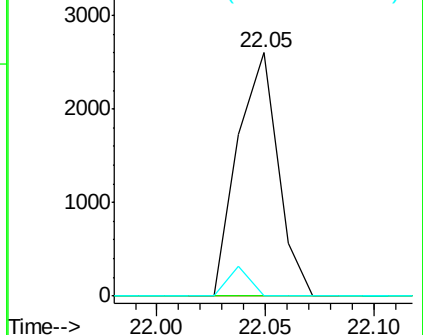


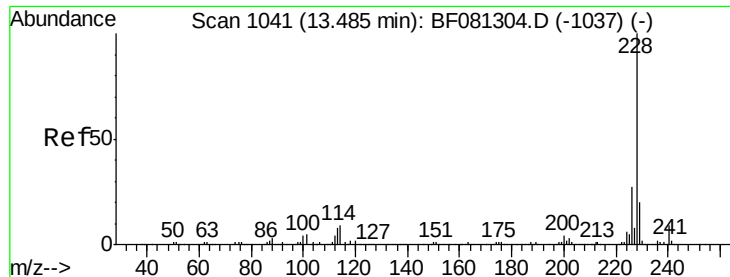
#78  
 Terphenyl-d14  
 Concen: 0.77 ng  
 RT: 22.05 min Scan# 1834  
 Delta R.T. 0.00 min  
 Lab File: BF081747.D  
 Acq: 22 Sep 2015 19:26

Tgt Ion:244 Resp: 3359  
 Ion Ratio Lower Upper  
 244 100  
 212 0.0 4.3 6.5#  
 122 0.0 17.4 26.2#



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: 2.28 ng

RT: 23.32 min Scan# 1945

Delta R.T. 0.00 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

Instrument :

BNA\_F

ClientSampleId :

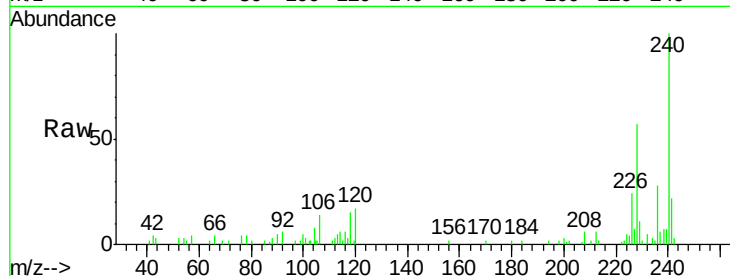
Tot Ion:228 Resp: 14659

Ion Ratio Lower Upper

228 100

226 41.4 20.0 30.0#

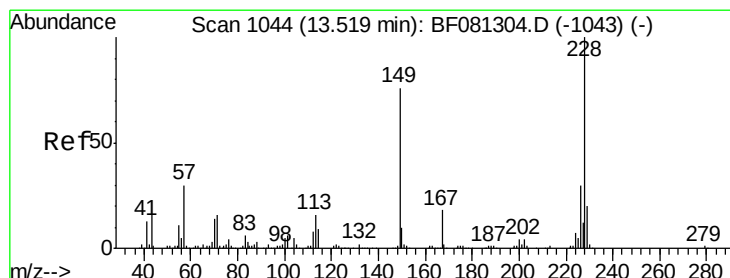
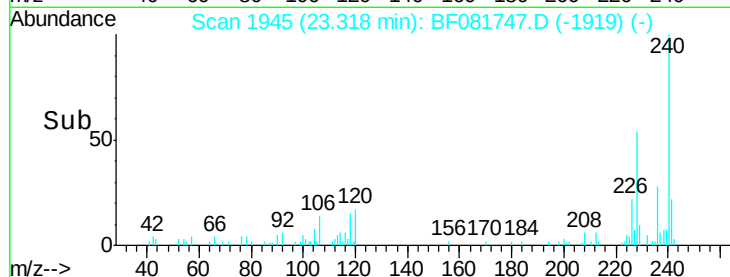
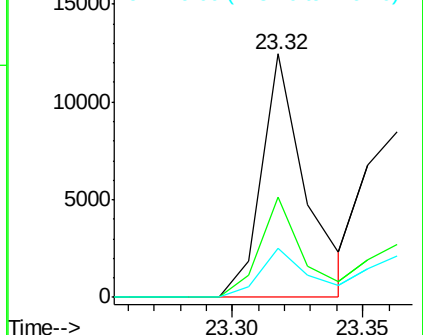
229 20.2 15.4 23.2



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



#82

Chrysene

Concen: 2.28 ng

RT: 23.36 min Scan# 1949

Delta R.T. 0.00 min

Lab File: BF081747.D

Acq: 22 Sep 2015 19:26

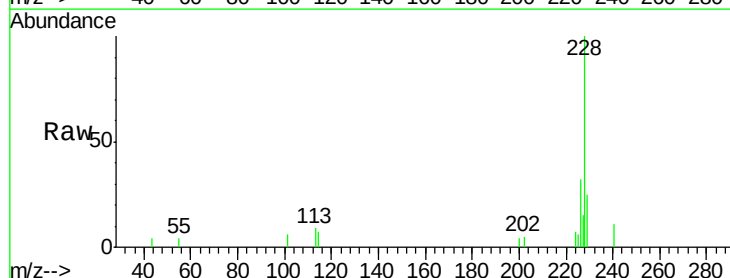
Tgt Ion:228 Resp: 13158

Ion Ratio Lower Upper

228 100

226 32.2 21.0 31.4#

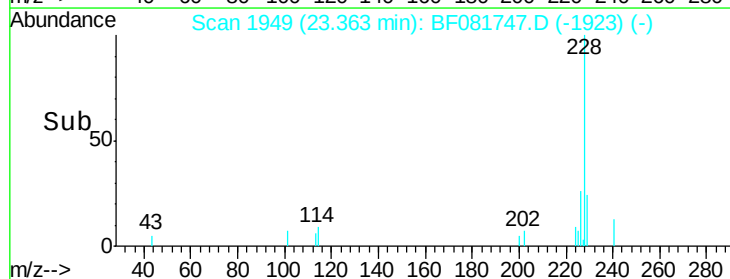
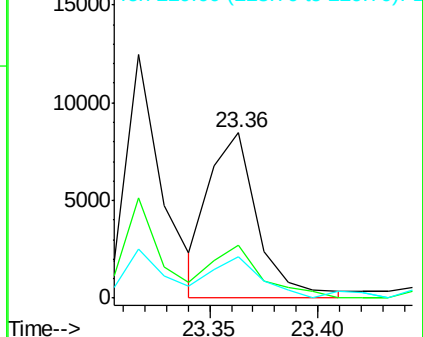
229 24.7 15.6 23.4#

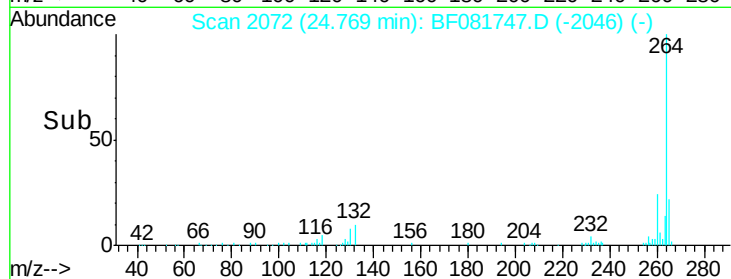
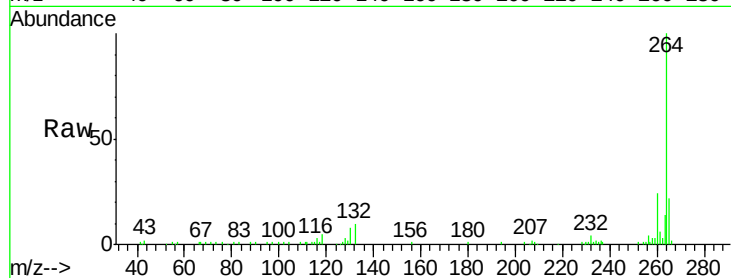
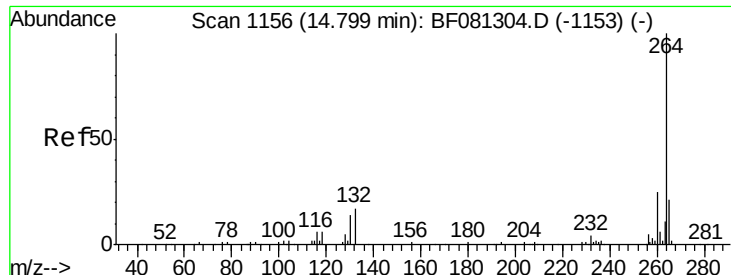


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 24.77 min Scan# 2072  
Delta R.T. 0.00 min  
Lab File: BF081747.D  
Acq: 22 Sep 2015 19:26

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 16.7  | 25.1  |
| 265     | 21.9  | 17.2  | 25.8  |

