

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF111616\  
 Data File : BF091198.D  
 Acq On : 16 Nov 2016 19:54  
 Operator : UM/SJ  
 Sample : H5636-07  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19033041

Quant Time: Nov 17 00:42:36 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF110316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 17 00:05:11 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.61  | 152  | 159015   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 7.90  | 136  | 691622   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 9.65  | 164  | 356230   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.14 | 188  | 622994   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.77 | 240  | 492342   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.14 | 264  | 371912   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.20  | 112  | 609456   | 63.30  | ng    | 0.00     |
| 7) Phenol-d6                | 6.27  | 99   | 497928   | 38.10  | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.20  | 82   | 1278145  | 100.81 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.45 | 330  | 495200   | 153.76 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 8.99  | 172  | 1956082  | 94.54  | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.73 | 244  | 1976114  | 100.16 | ng    | 0.00     |

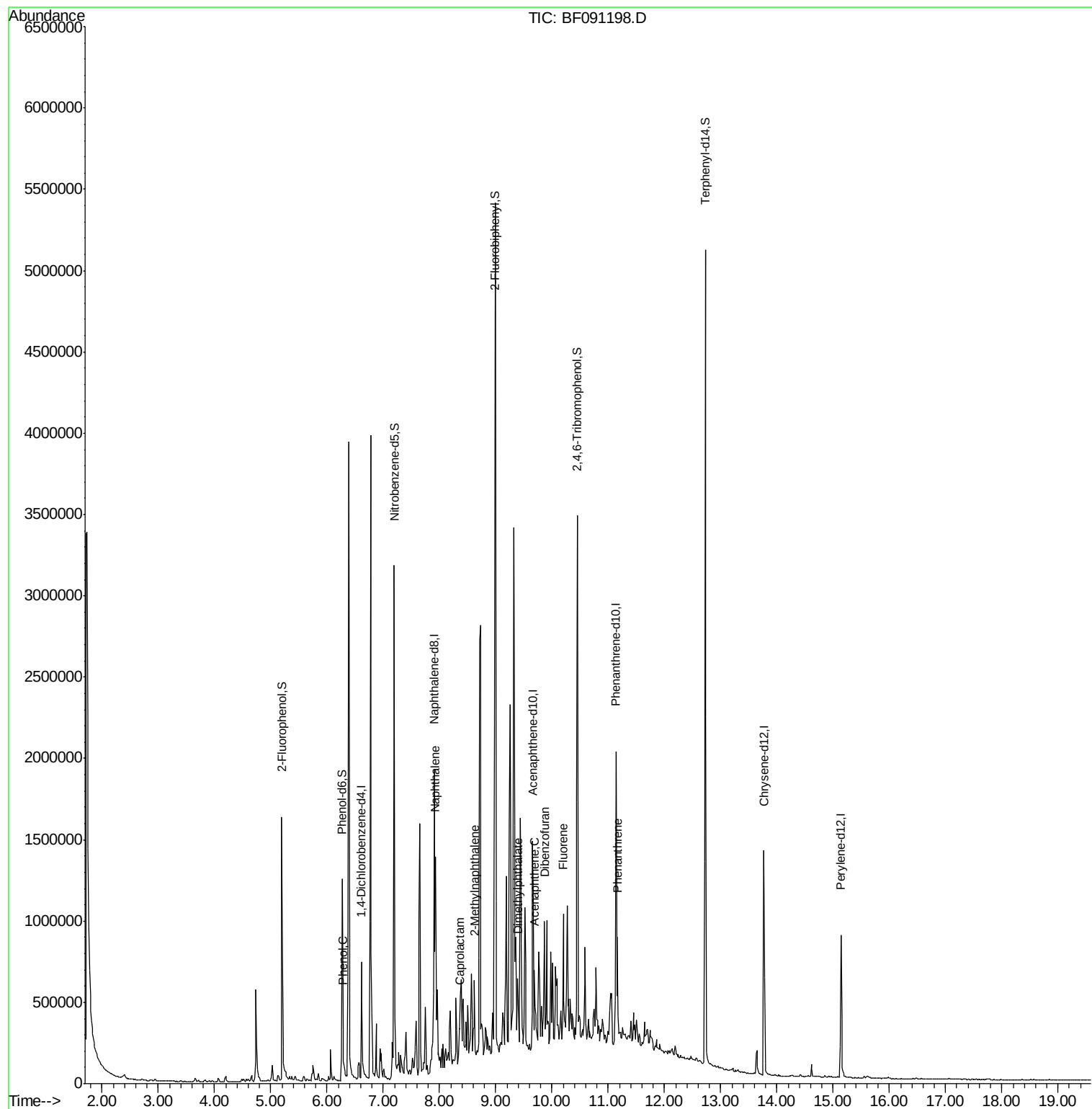
| Target Compounds        | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|-------------------------|-------|------|----------|-------|-------|--------|
| 10) Phenol              | 6.28  | 94   | 38714    | 2.68  | ng    | # 70   |
| 31) Naphthalene         | 7.93  | 128  | 561966   | 16.99 | ng    | 98     |
| 35) Caprolactam         | 8.36  | 113  | 23123    | 8.61  | ng    | # 81   |
| 37) 2-Methylnaphthalene | 8.62  | 142  | 145995   | 6.87  | ng    | 98     |
| 49) Dimethylphthalate   | 9.39  | 163  | 132132   | 5.66  | ng    | 100    |
| 51) Acenaphthene        | 9.69  | 154  | 87314    | 4.52  | ng    | 98     |
| 54) Dibenzofuran        | 9.87  | 168  | 134229   | 5.16  | ng    | # 83   |
| 57) Fluorene            | 10.20 | 166  | 159242   | 7.49  | ng    | # 95   |
| 70) Phenanthrene        | 11.16 | 178  | 226746   | 6.85  | ng    | 98     |

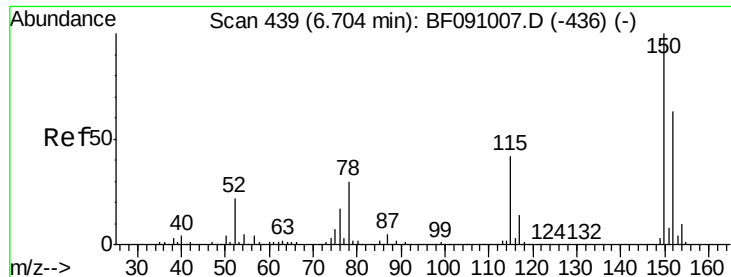
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 17 00:05:11 2016  
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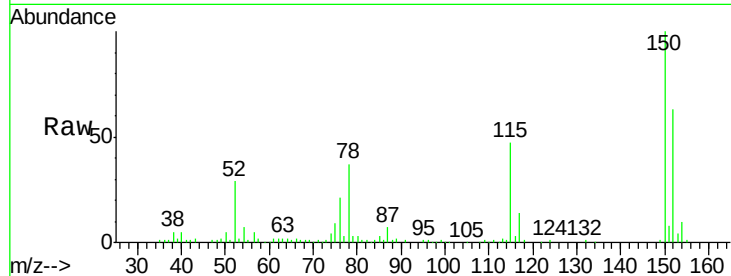




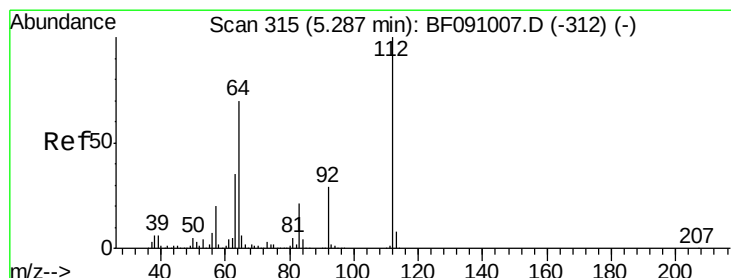
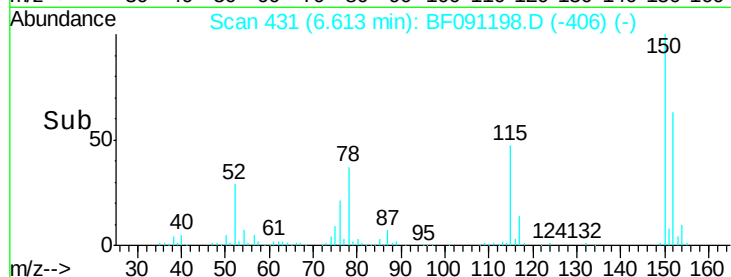
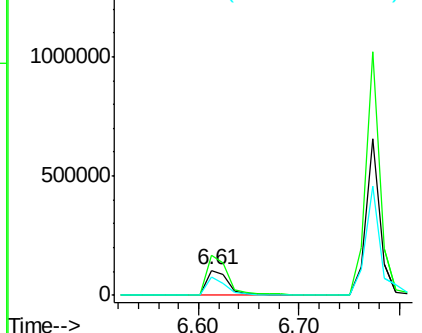
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.61 min Scan# 431  
 Delta R.T. -0.01 min  
 Lab File: BF091198.D  
 Acq: 16 Nov 2016 19:54

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19033041

Tgt Ion:152 Resp: 159015  
 Ion Ratio Lower Upper  
 152 100  
 150 159.0 126.8 190.2  
 115 74.2 53.3 79.9

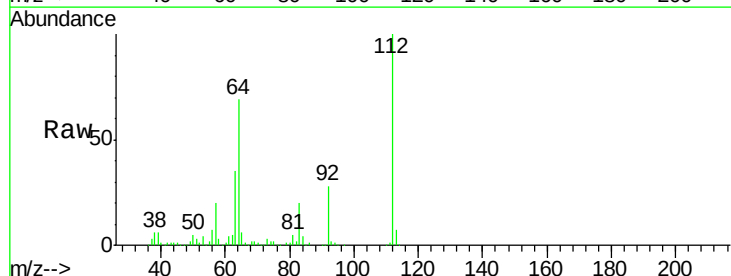


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

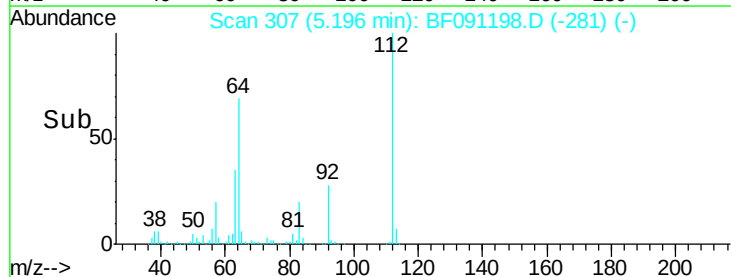
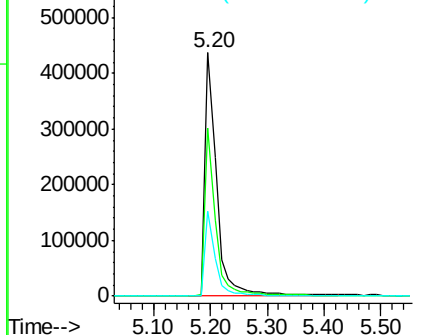


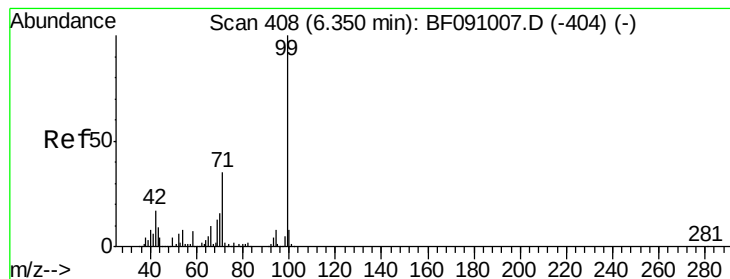
#5  
 2-Fluorophenol  
 Concen: 63.30 ng  
 RT: 5.20 min Scan# 307  
 Delta R.T. -0.00 min  
 Lab File: BF091198.D  
 Acq: 16 Nov 2016 19:54

Tgt Ion:112 Resp: 609456  
 Ion Ratio Lower Upper  
 112 100  
 64 69.1 55.8 83.6  
 63 35.0 28.0 42.0



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: 38.10 ng

RT: 6.27 min Scan# 401

Delta R.T. -0.01 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

Instrument :

BNA\_F

ClientSampleId :

C19033041

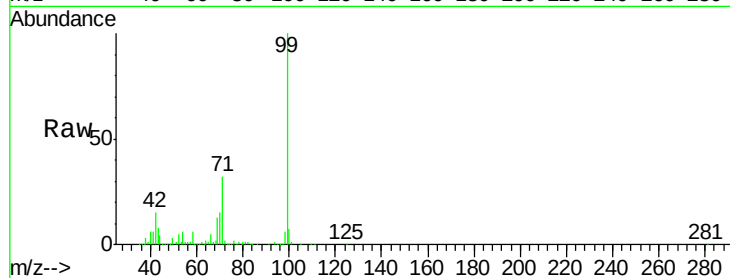
Tgt Ion: 99 Resp: 497928

Ion Ratio Lower Upper

99 100

42 15.1 13.9 20.9

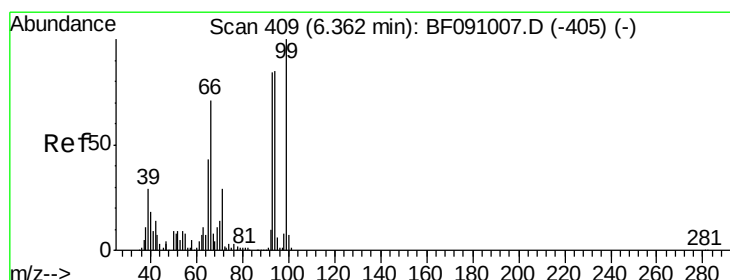
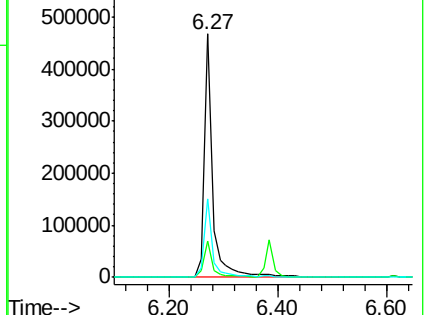
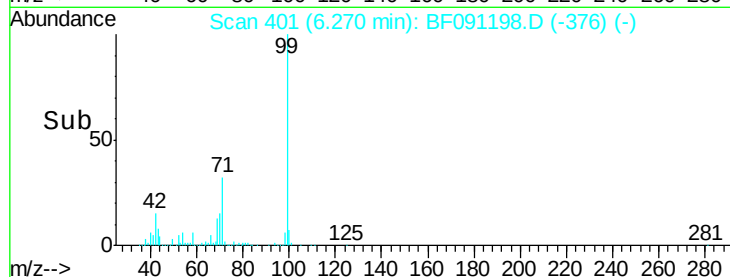
71 32.0 27.8 41.8



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



#10

Phenol

Concen: 2.68 ng

RT: 6.28 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

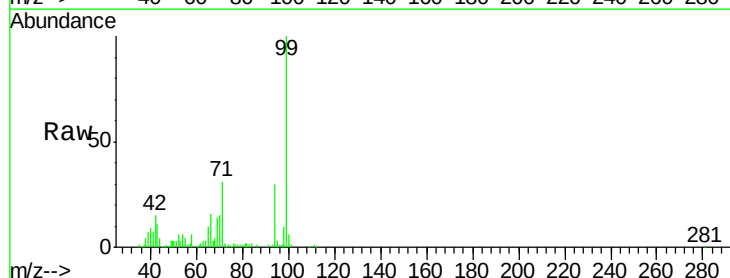
Tgt Ion: 94 Resp: 38714

Ion Ratio Lower Upper

94 100

65 32.8 30.4 70.4

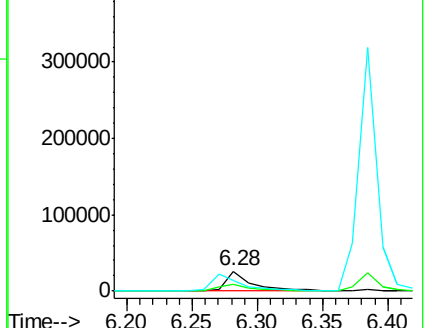
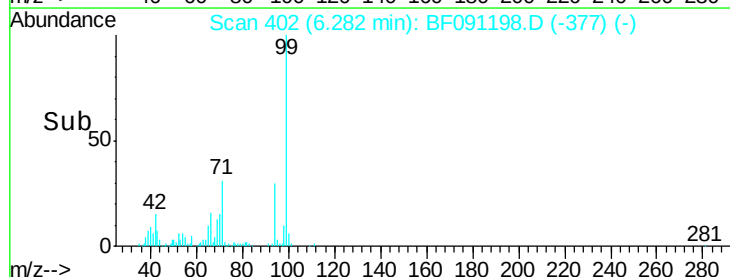
66 52.9 62.9 102.9#

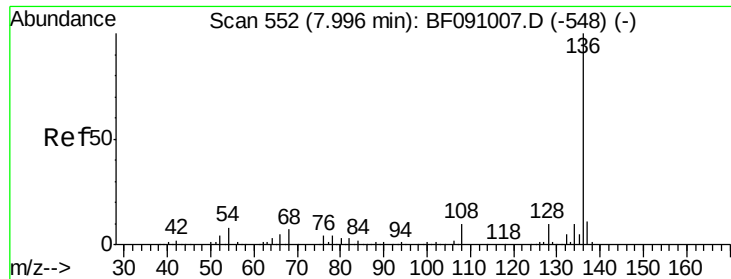


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

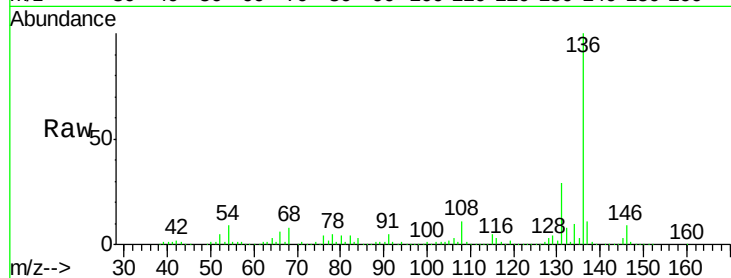




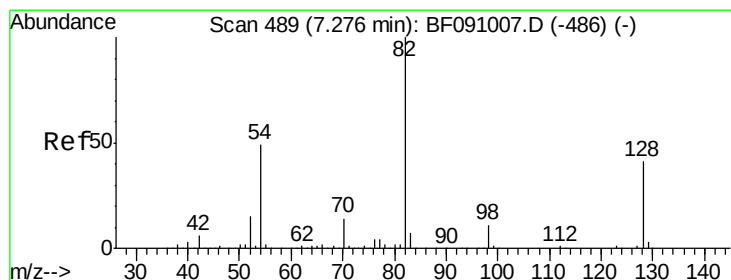
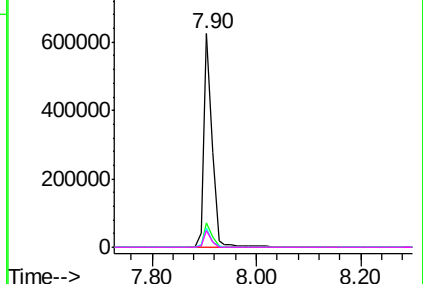
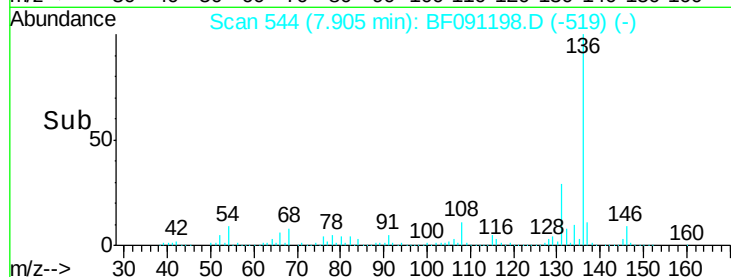
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.90 min Scan# 544  
Delta R.T. -0.01 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

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C19033041

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 691622 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.9   | 13.3   |
| 54       | 9.1   | 6.2   | 9.2    |
| 68       | 7.9   | 5.5   | 8.3    |

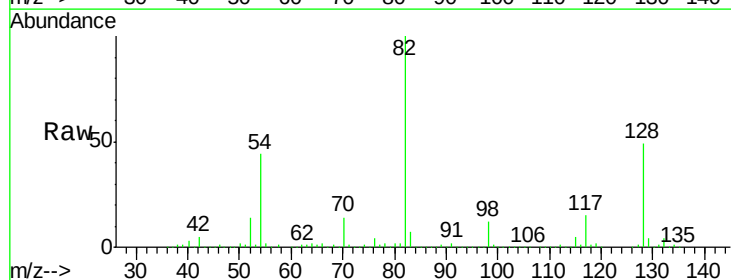


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

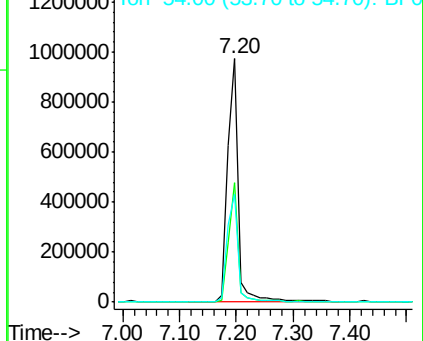
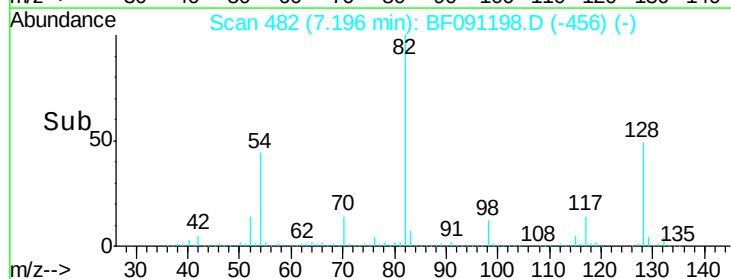


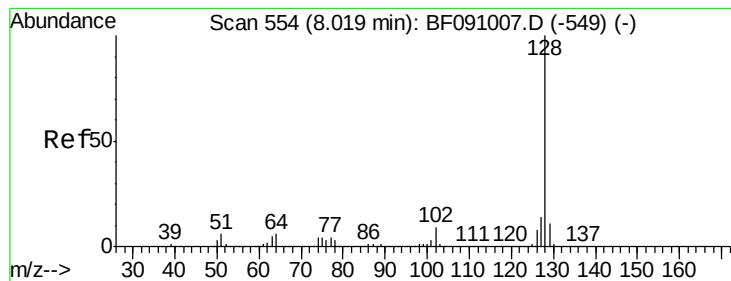
#23  
Nitrobenzene-d5  
Concen: 100.81 ng  
RT: 7.20 min Scan# 482  
Delta R.T. -0.00 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 82    | Resp: | 1278145 |
| Ion      | Ratio | Lower | Upper   |
| 82       | 100   |       |         |
| 128      | 49.1  | 32.4  | 48.6#   |
| 54       | 44.5  | 39.2  | 58.8    |



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





#31

Naphthalene

Concen: 16.99 ng

RT: 7.93 min Scan# 546

Delta R.T. -0.01 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

Instrument :

BNA\_F

ClientSampleId :

C19033041

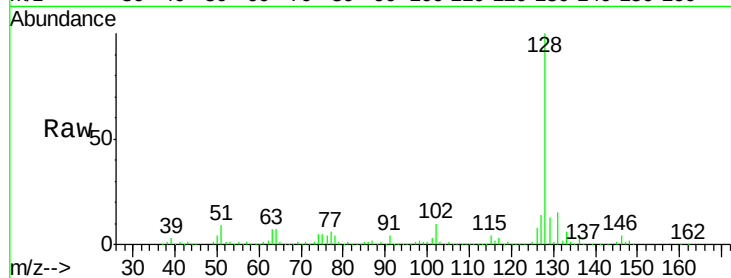
Tgt Ion:128 Resp: 561966

Ion Ratio Lower Upper

128 100

129 12.8 9.0 13.6

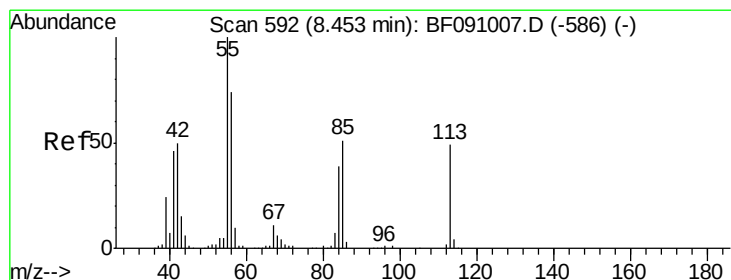
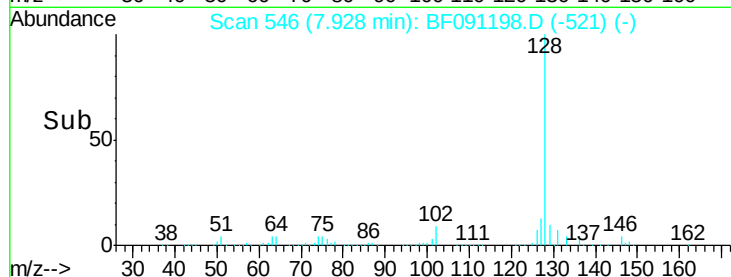
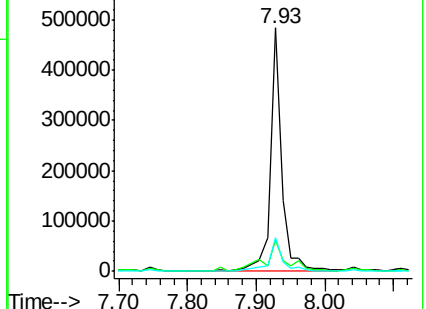
127 13.9 10.9 16.3



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



#35

Caprolactam

Concen: 8.61 ng

RT: 8.36 min Scan# 584

Delta R.T. -0.03 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

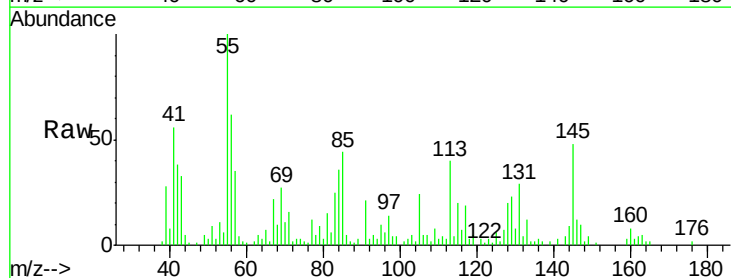
Tgt Ion:113 Resp: 23123

Ion Ratio Lower Upper

113 100

55 252.8 184.1 224.1#

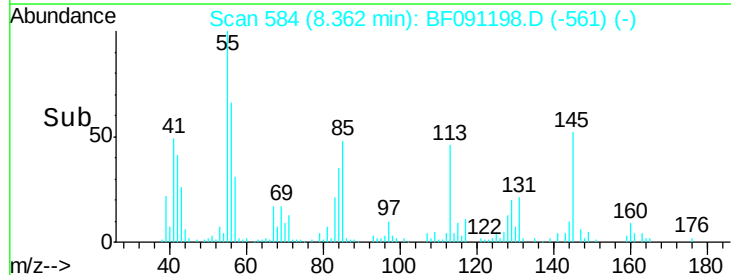
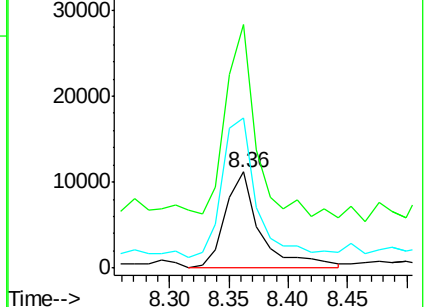
56 155.9 132.0 172.0

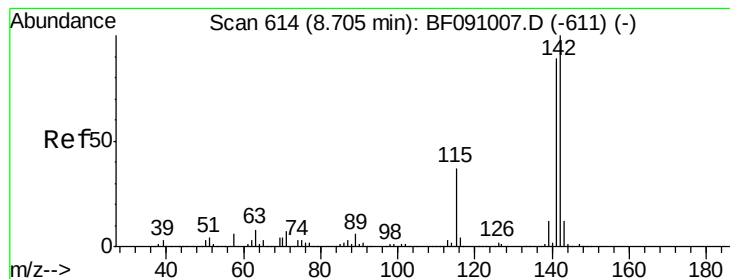


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0





#37

2-Methylnaphthalene

Concen: 6.87 ng

RT: 8.62 min Scan# 607

Delta R.T. -0.00 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

Instrument :

BNA\_F

ClientSampleId :

C19033041

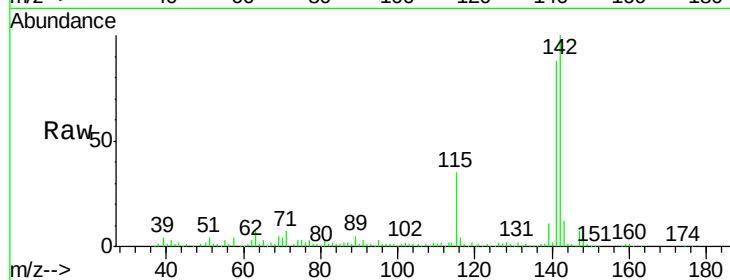
Tgt Ion:142 Resp: 145995

Ion Ratio Lower Upper

142 100

141 87.9 71.3 106.9

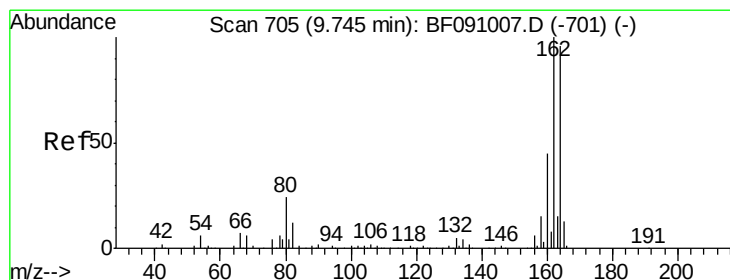
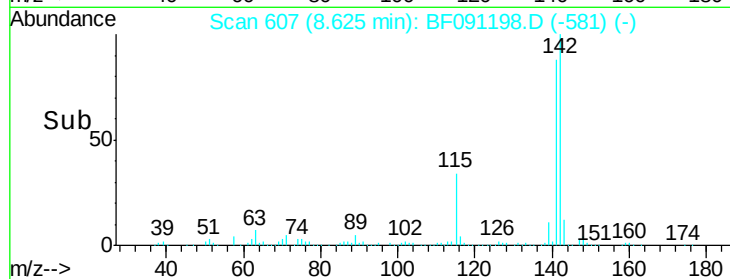
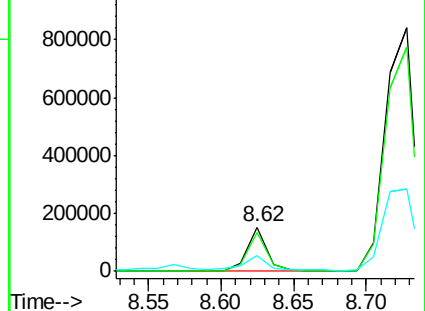
115 35.2 29.9 44.9



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: 9.65 min Scan# 697

Delta R.T. -0.01 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

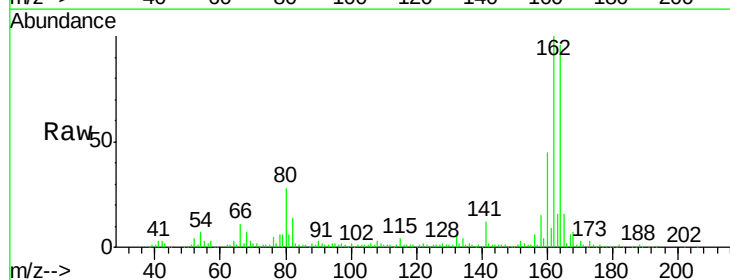
Tgt Ion:164 Resp: 356230

Ion Ratio Lower Upper

164 100

162 104.5 83.6 125.4

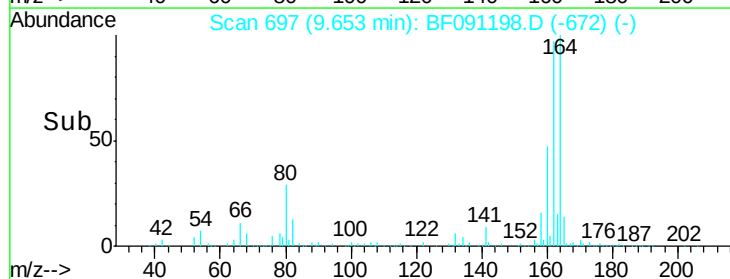
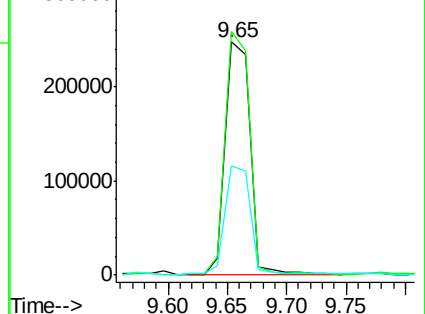
160 46.9 37.9 56.9

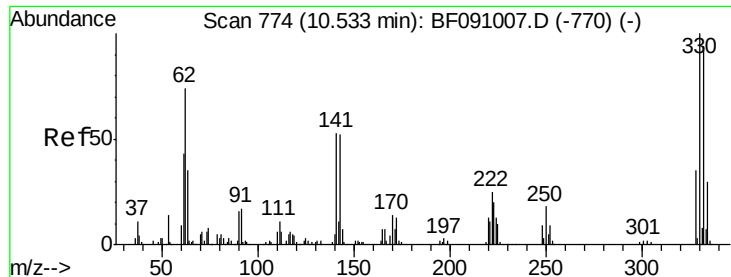


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

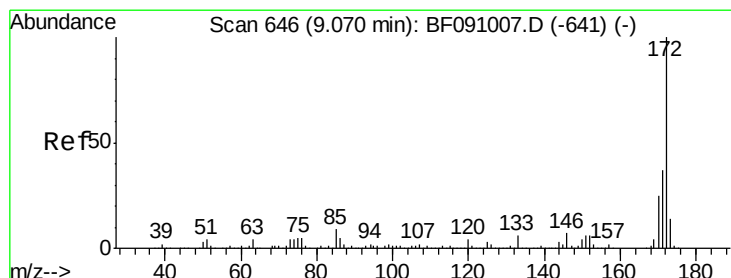
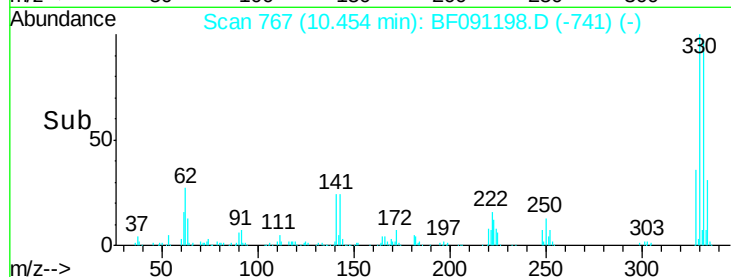
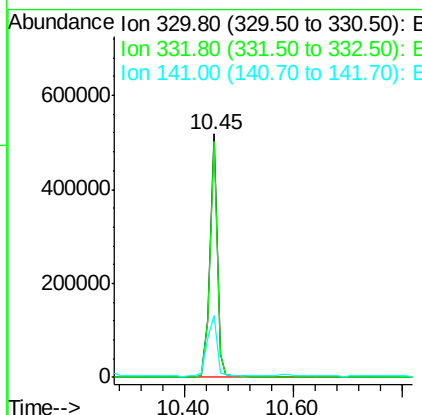
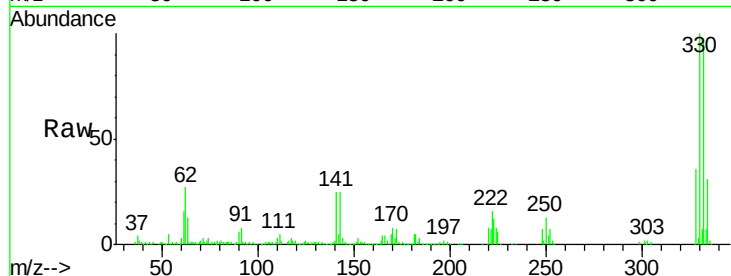




#41  
 2,4,6-Tribromophenol  
 Concen: 153.76 ng  
 RT: 10.45 min Scan# 767  
 Delta R.T. -0.00 min  
 Lab File: BF091198.D  
 Acq: 16 Nov 2016 19:54

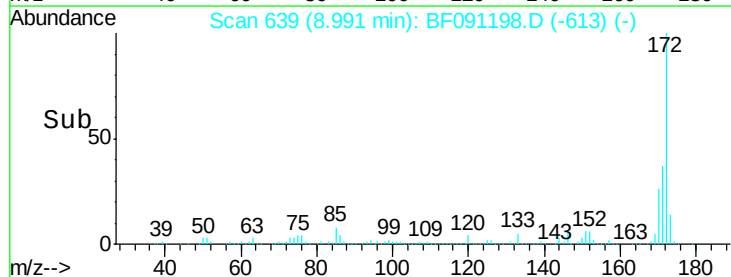
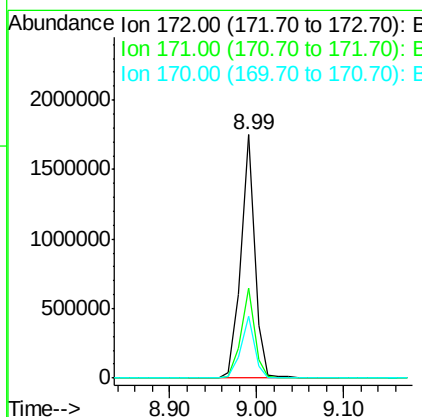
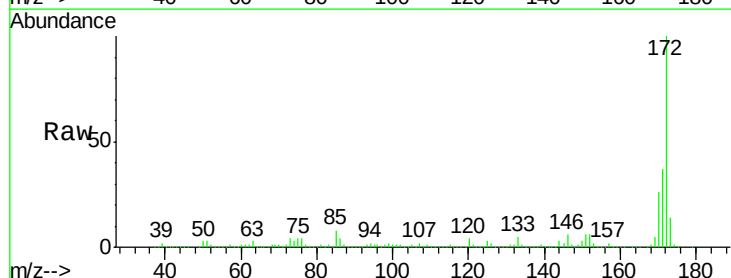
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C19033041

Tgt Ion:330 Resp: 495200  
 Ion Ratio Lower Upper  
 330 100  
 332 96.8 75.9 113.9  
 141 32.9 36.1 54.1#

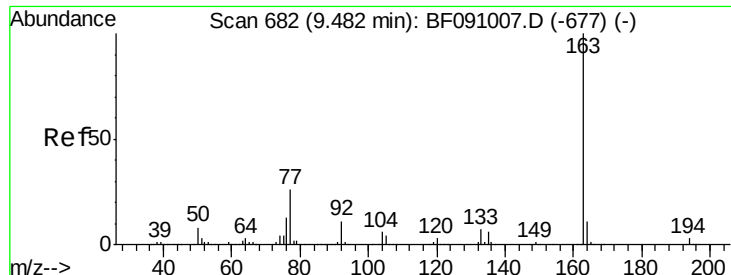


#44  
 2-Fluorobiphenyl  
 Concen: 94.54 ng  
 RT: 8.99 min Scan# 639  
 Delta R.T. -0.00 min  
 Lab File: BF091198.D  
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Tgt Ion:172 Resp: 1956082  
 Ion Ratio Lower Upper  
 172 100  
 171 37.2 29.8 44.6  
 170 25.6 20.3 30.5



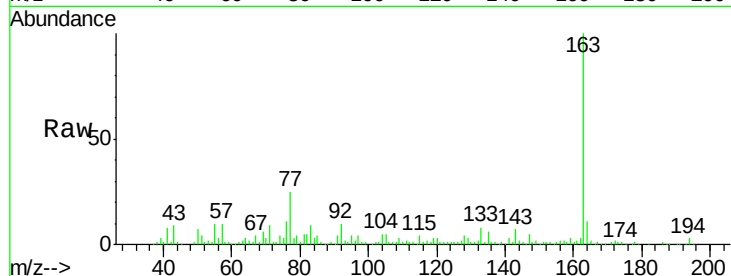




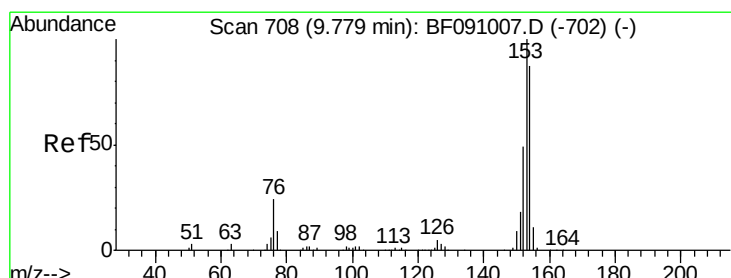
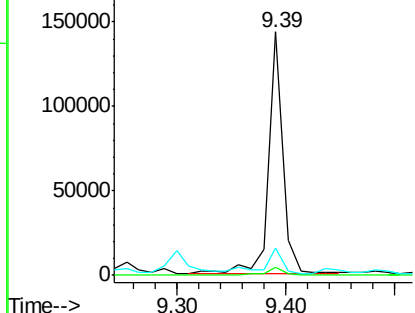
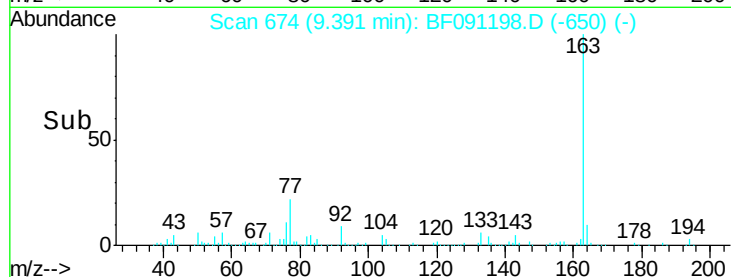
#49  
Dimethylphthalate  
Concen: 5.66 ng  
RT: 9.39 min Scan# 674  
Delta R.T. -0.02 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

Instrument :  
BNA\_F  
ClientSampleId :  
C19033041

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.3   | 2.6   | 4.0   |
| 164     | 11.1  | 8.7   | 13.1  |

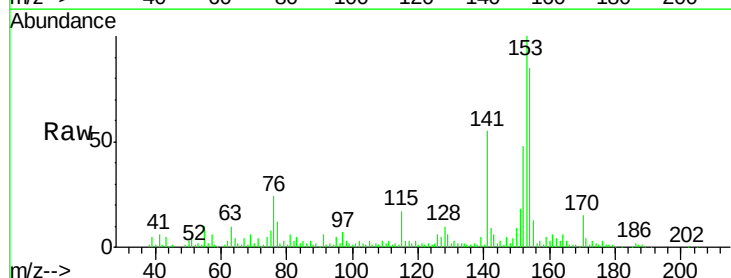


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

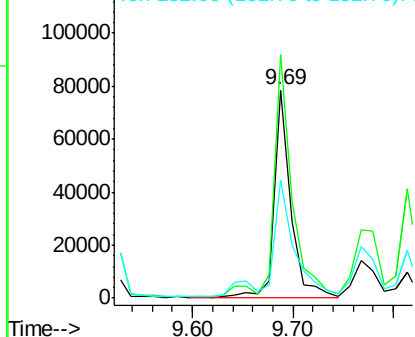
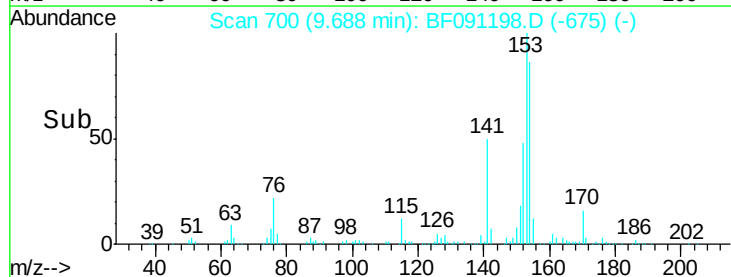


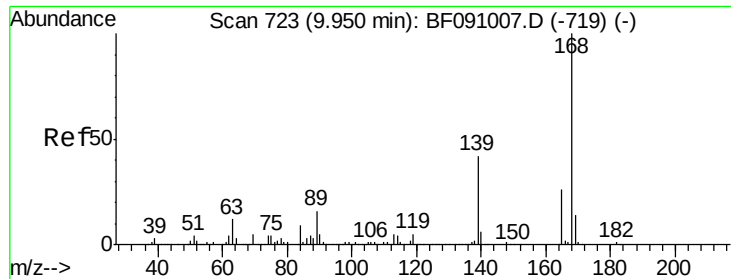
#51  
Acenaphthene  
Concen: 4.52 ng  
RT: 9.69 min Scan# 700  
Delta R.T. -0.01 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 117.0 | 91.6  | 137.4 |
| 152     | 56.5  | 44.6  | 67.0  |



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

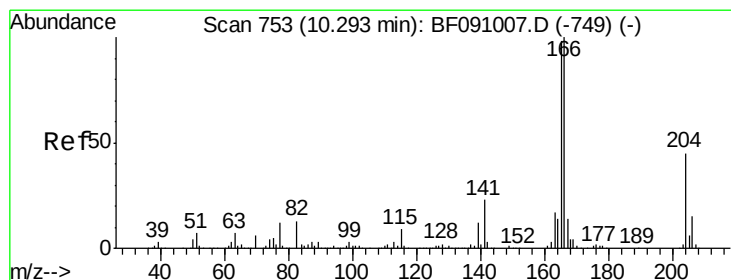
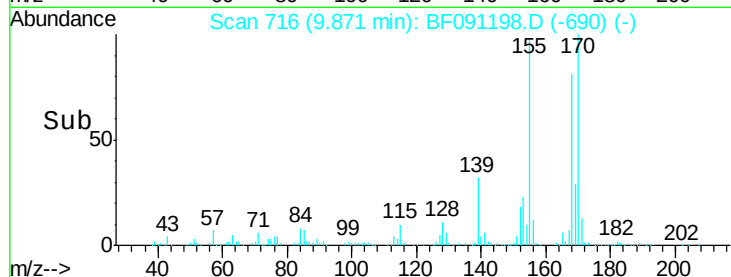
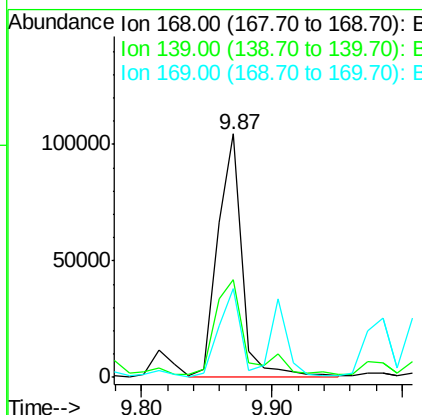
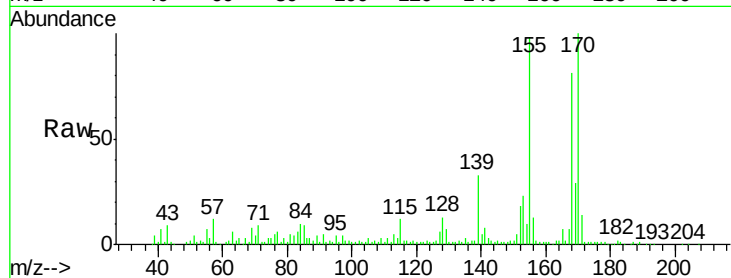




#54  
Dibenzenofuran  
Concen: 5.16 ng  
RT: 9.87 min Scan# 716  
Delta R.T. -0.00 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

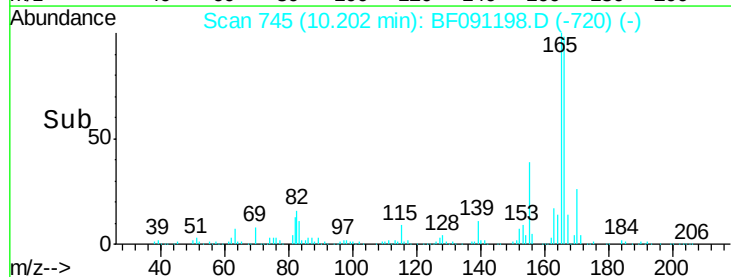
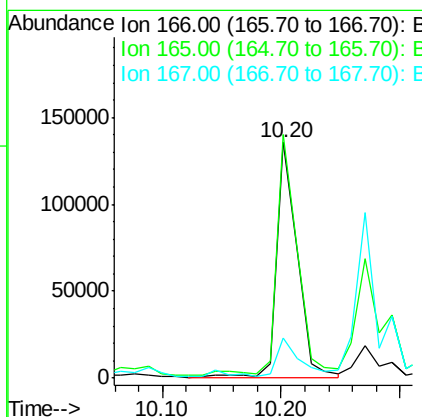
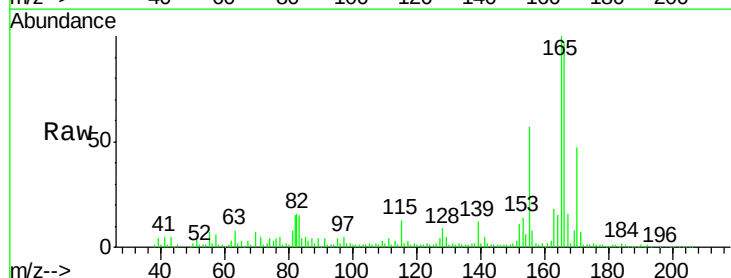
Instrument :  
BNA\_F  
ClientSampleId :  
C19033041

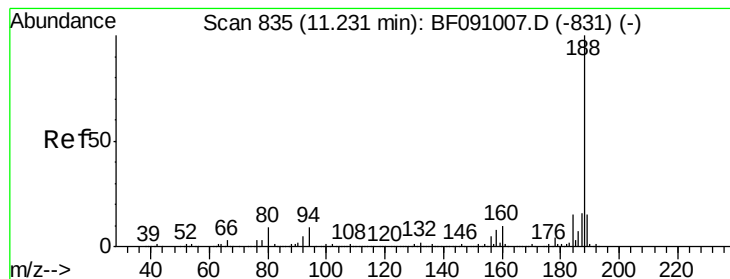
Tgt Ion:168 Resp: 134229  
Ion Ratio Lower Upper  
168 100  
139 40.3 34.8 52.2  
169 36.3 11.4 17.2#



#57  
Fluorene  
Concen: 7.49 ng  
RT: 10.20 min Scan# 745  
Delta R.T. -0.01 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

Tgt Ion:166 Resp: 159242  
Ion Ratio Lower Upper  
166 100  
165 103.4 78.6 118.0  
167 17.1 11.1 16.7#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.14 min Scan# 827

Delta R.T. -0.00 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

Instrument :

BNA\_F

ClientSampleId :

C19033041

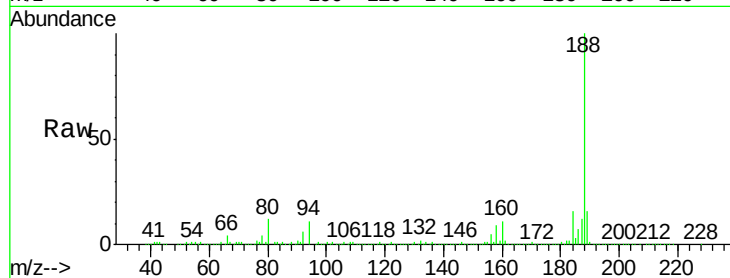
Tgt Ion:188 Resp: 622994

Ion Ratio Lower Upper

188 100

94 10.7 7.0 10.4#

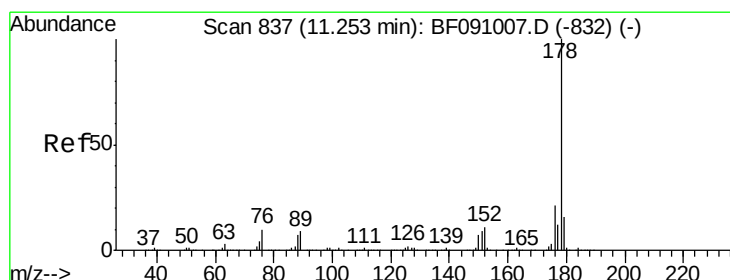
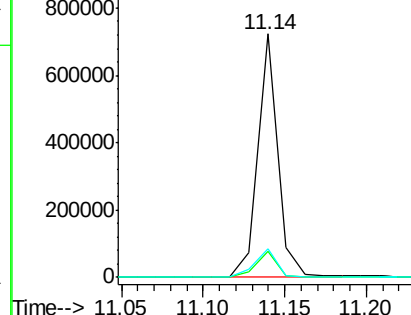
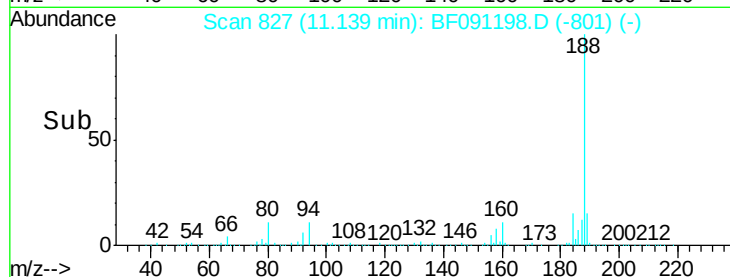
80 11.5 7.5 11.3#



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: 6.85 ng

RT: 11.16 min Scan# 829

Delta R.T. -0.01 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

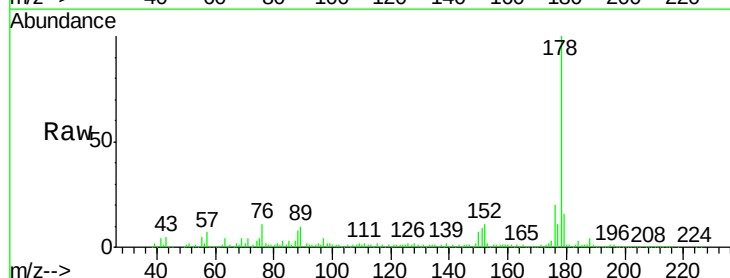
Tgt Ion:178 Resp: 226746

Ion Ratio Lower Upper

178 100

176 19.5 16.6 25.0

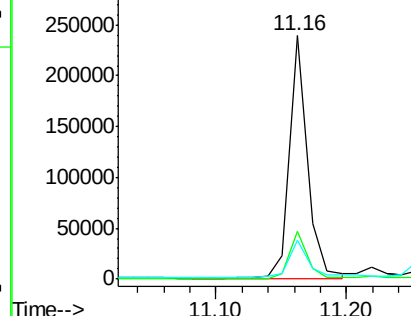
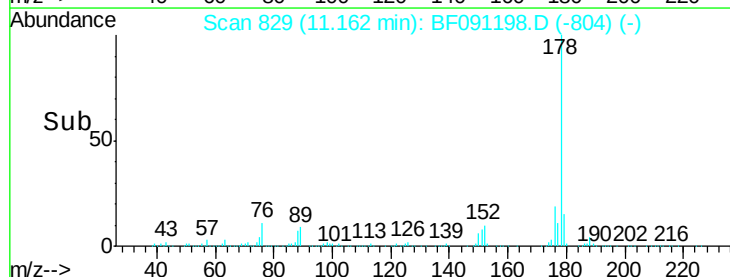
179 15.8 12.9 19.3

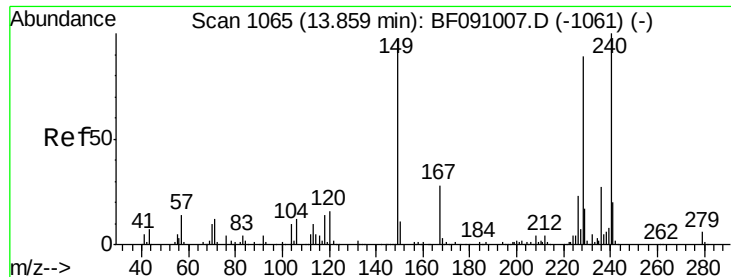


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.77 min Scan# 1057

Delta R.T. -0.01 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

Instrument :

BNA\_F

ClientSampleId :

C19033041

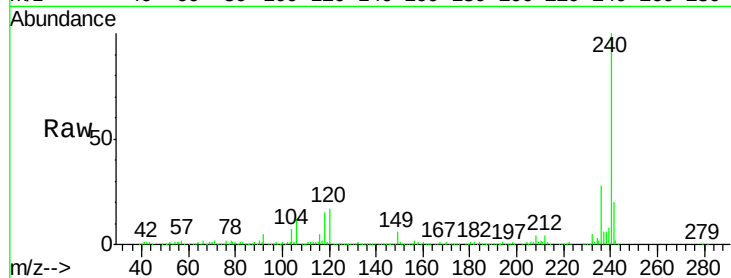
Tgt Ion:240 Resp: 492342

Ion Ratio Lower Upper

240 100

120 17.3 12.9 19.3

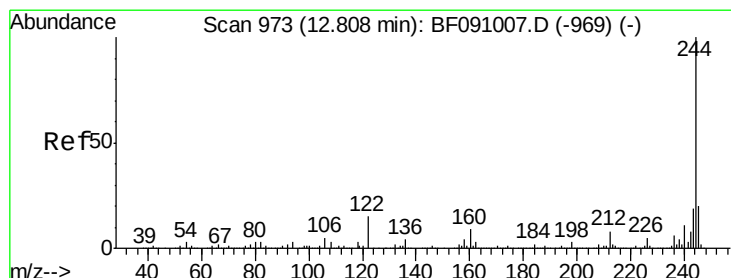
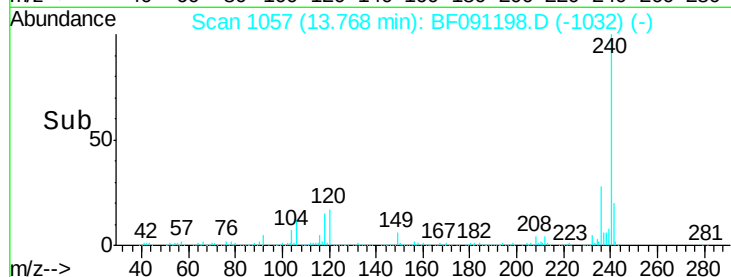
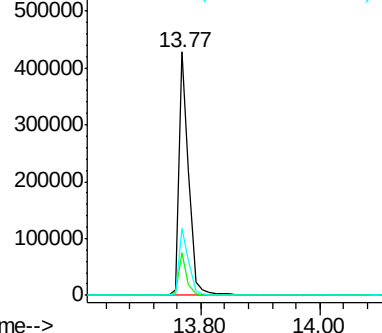
236 27.6 21.9 32.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 100.16 ng

RT: 12.73 min Scan# 966

Delta R.T. -0.00 min

Lab File: BF091198.D

Acq: 16 Nov 2016 19:54

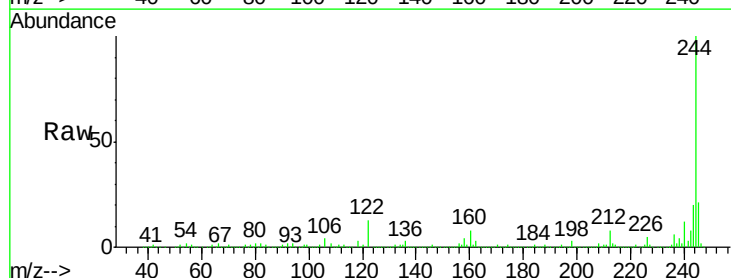
Tgt Ion:244 Resp: 1976114

Ion Ratio Lower Upper

244 100

212 8.0 6.4 9.6

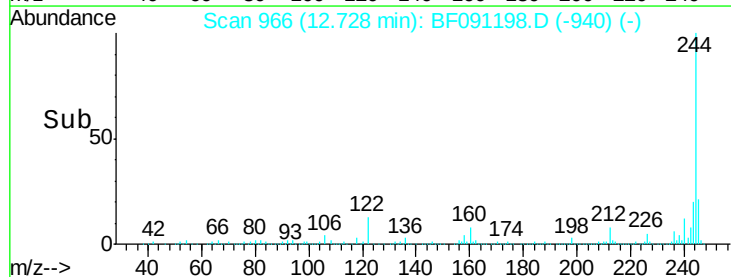
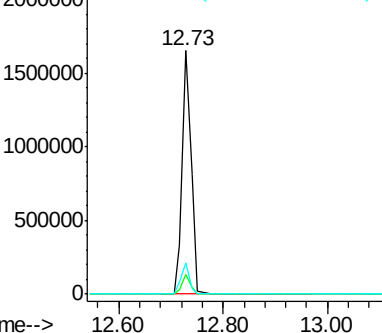
122 13.0 12.3 18.5

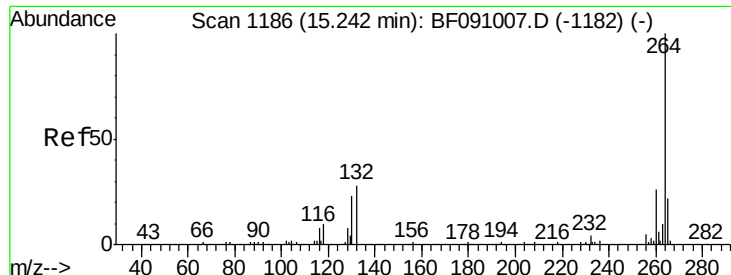


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

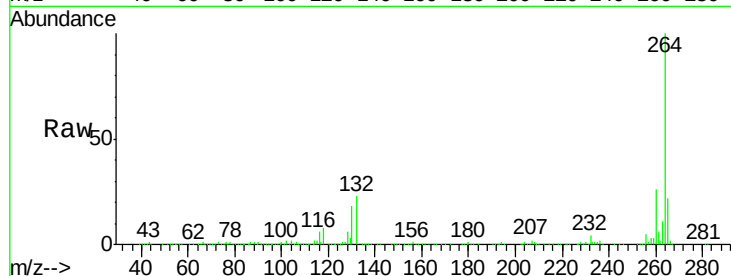




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.14 min Scan# 1177  
Delta R.T. -0.01 min  
Lab File: BF091198.D  
Acq: 16 Nov 2016 19:54

Instrument :  
BNA\_F  
ClientSampleId :  
C19033041

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.7  | 20.6  | 30.8  |
| 265     | 22.0  | 17.8  | 26.8  |



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

