

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051217\  
 Data File : BF095118.D  
 Acq On : 12 May 2017 18:30  
 Operator : SJ/MA  
 Sample : PB98933BL  
 Misc : Waste Dilution  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: May 13 00:54:06 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050217.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 03 17:24:51 2017  
 Response via : Initial Calibration

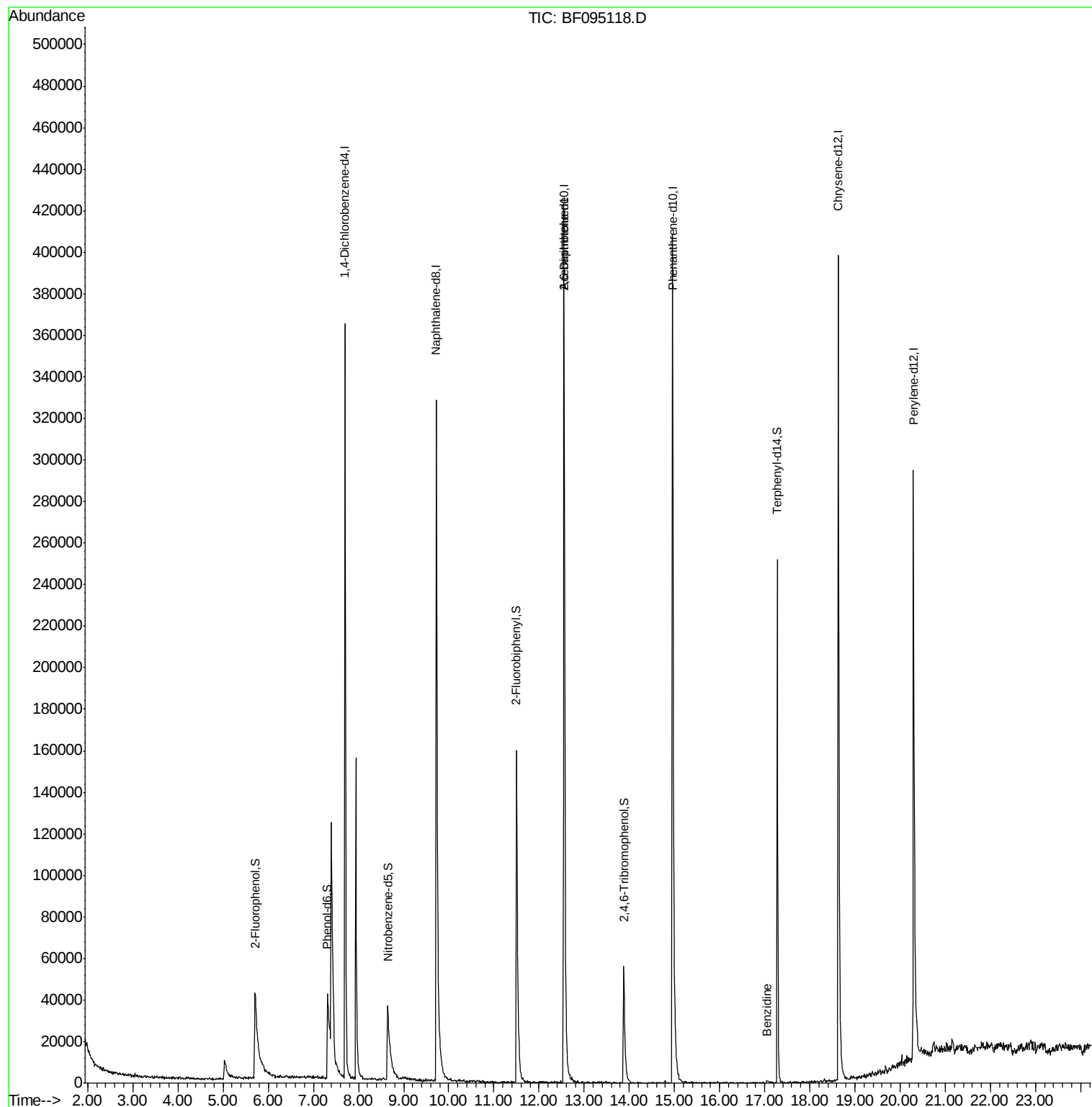
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.70  | 152  | 89627    | 20.00 | ng    | -0.03    |
| 21) Naphthalene-d8          | 9.72  | 136  | 380321   | 20.00 | ng    | -0.03    |
| 38) Acenaphthene-d10        | 12.55 | 164  | 176755   | 20.00 | ng    | -0.03    |
| 63) Phenanthrene-d10        | 14.96 | 188  | 335694   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 18.63 | 240  | 275206   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 20.30 | 264  | 205061   | 20.00 | ng    | -0.01    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.71  | 112  | 61463    | 11.43 | ng    | 0.04     |
| 7) Phenol-d6                | 7.31  | 99   | 75812    | 11.75 | ng    | 0.04     |
| 23) Nitrobenzene-d5         | 8.65  | 82   | 56222    | 9.32  | ng    | 0.01     |
| 41) 2,4,6-Tribromophenol    | 13.88 | 330  | 20312    | 14.03 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 11.50 | 172  | 133825   | 10.90 | ng    | -0.03    |
| 78) Terphenyl-d14           | 17.28 | 244  | 122305   | 9.79  | ng    | -0.04    |
| Target Compounds            |       |      |          |       |       |          |
| 50) 2,6-Dinitrotoluene      | 12.55 | 165  | 13253    | 4.48  | ng    | # 31     |
| 76) Benzidine               | 17.05 | 184  | 2915     | 6.93  | ng    | # 62     |

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

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 03 17:24:51 2017  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.70 min Scan# 980

Delta R.T. -0.03 min

Lab File: BF095118.D

Acq: 12 May 2017 18:30

Instrument :

BNA\_F

ClientSampled :

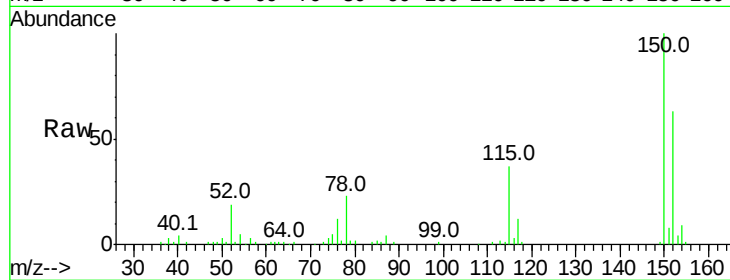
Tot Ion:152 Resp: 89627

Ion Ratio Lower Upper

152 100

150 159.7 126.2 189.2

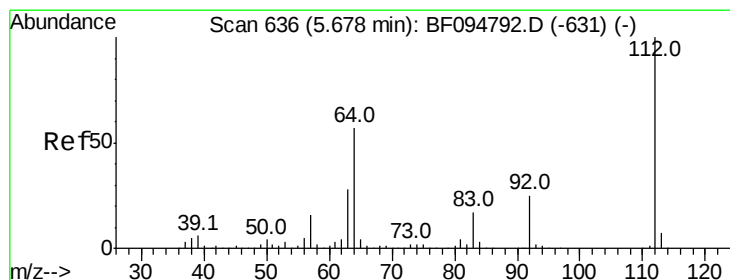
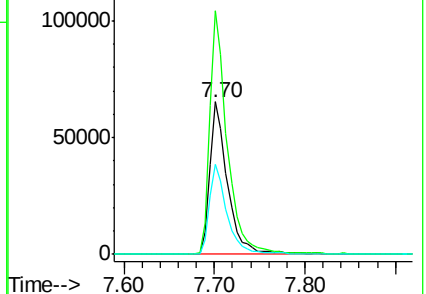
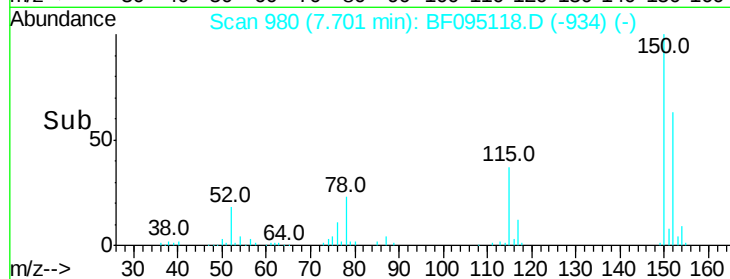
115 59.5 52.2 78.2



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: 11.43 ng

RT: 5.71 min Scan# 642

Delta R.T. 0.04 min

Lab File: BF095118.D

Acq: 12 May 2017 18:30

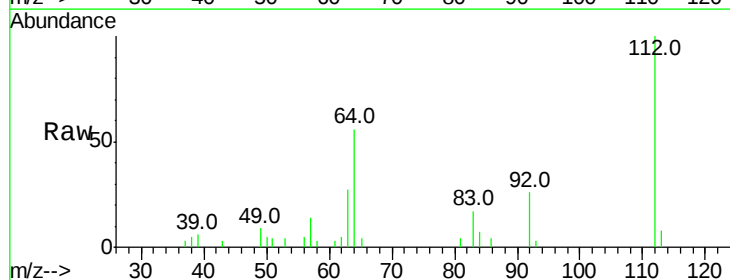
Tgt Ion:112 Resp: 61463

Ion Ratio Lower Upper

112 100

64 55.7 46.0 69.0

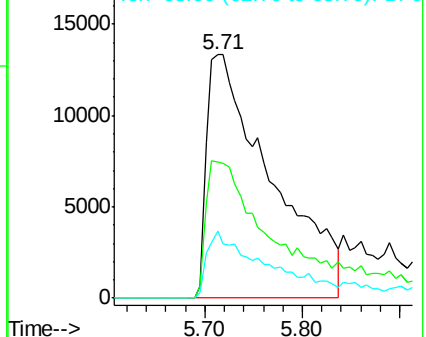
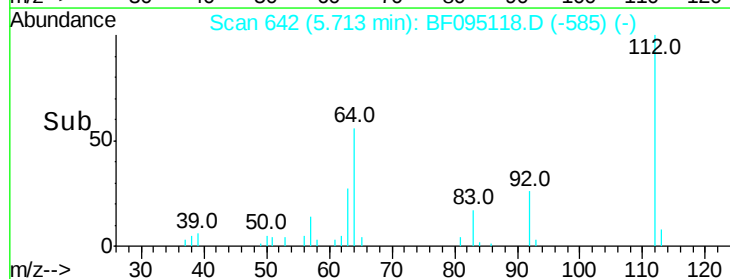
63 27.5 23.4 35.0



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: 11.75 ng

RT: 7.31 min Scan# 914

Delta R.T. 0.04 min

Lab File: BF095118.D

Acq: 12 May 2017 18:30

Instrument :

BNA\_F

ClientSampleId :

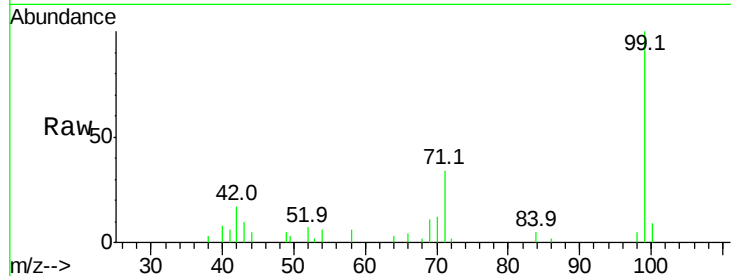
Tot Ion: 99 Resp: 75812

Ion Ratio Lower Upper

99 100

42 17.2 13.5 20.3

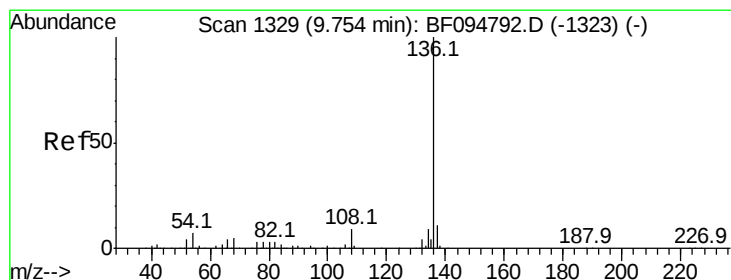
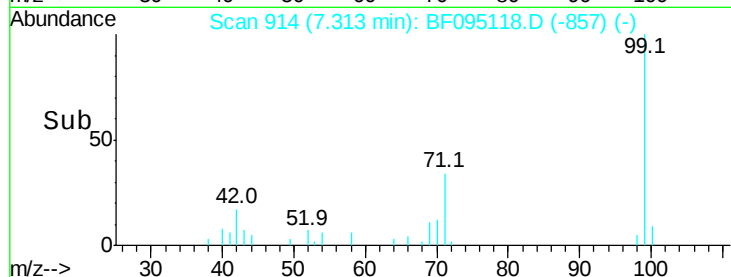
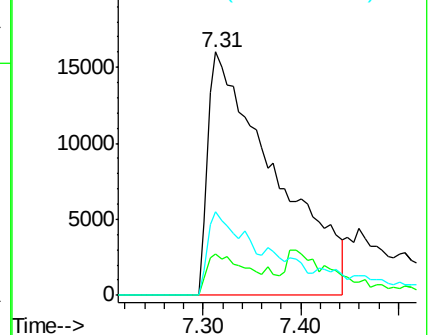
71 34.2 24.5 36.7



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: 9.72 min Scan# 1324

Delta R.T. -0.03 min

Lab File: BF095118.D

Acq: 12 May 2017 18:30

Tgt Ion: 136 Resp: 380321

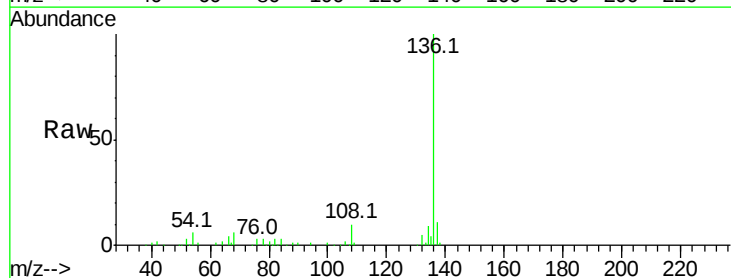
Ion Ratio Lower Upper

136 100

137 11.2 8.5 12.7

54 6.4 4.9 7.3

68 5.5 4.1 6.1

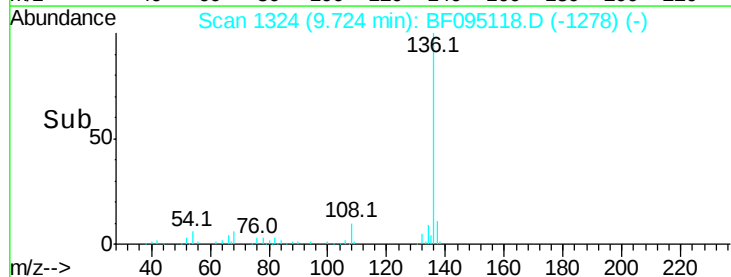
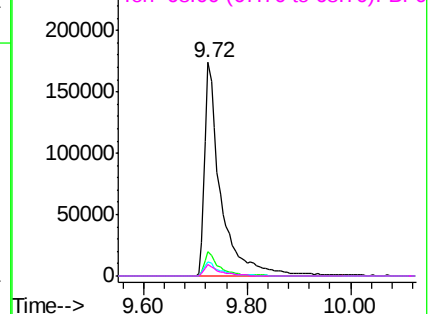


Abundance Ion 136.00 (135.70 to 136.70): E

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

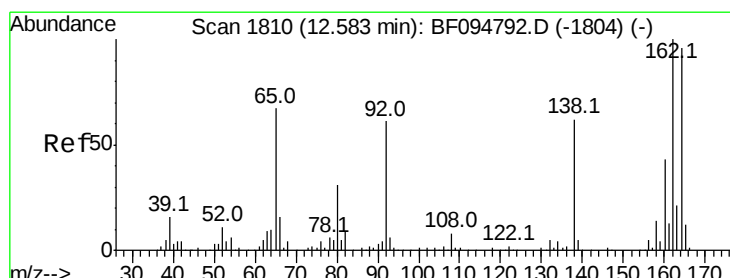
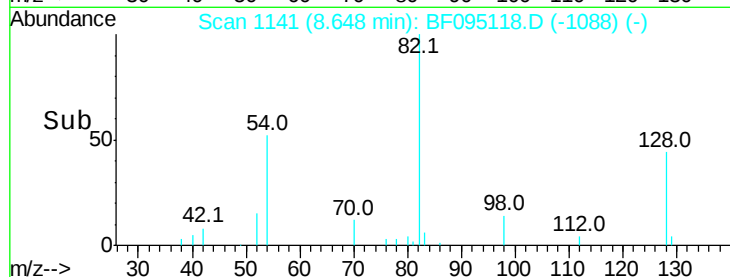
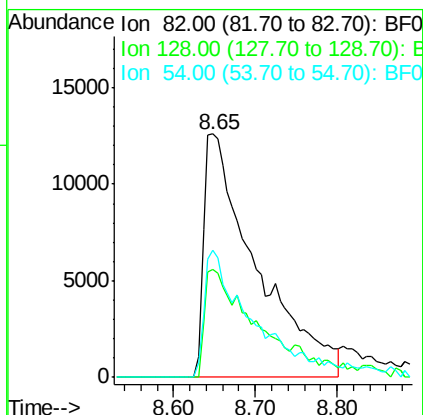
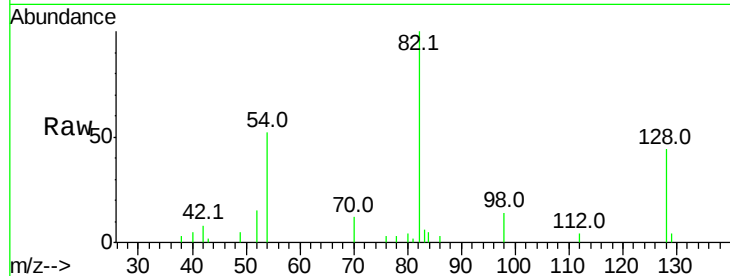




#23  
Nitrobenzene-d5  
Concen: 9.32 ng  
RT: 8.65 min Scan# 1141  
Delta R.T. 0.01 min  
Lab File: BF095118.D  
Acq: 12 May 2017 18:30

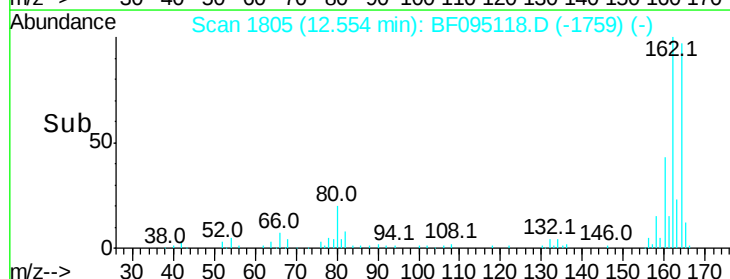
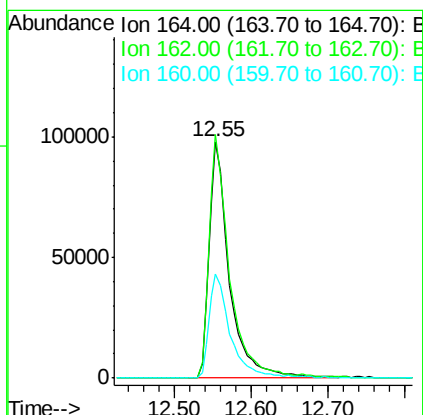
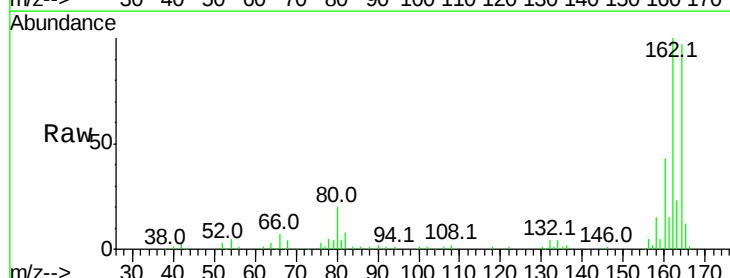
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 56222  
Ion Ratio Lower Upper  
82 100  
128 44.3 34.0 51.0  
54 52.3 42.2 63.2



#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 12.55 min Scan# 1805  
Delta R.T. -0.03 min  
Lab File: BF095118.D  
Acq: 12 May 2017 18:30

Tgt Ion:164 Resp: 176755  
Ion Ratio Lower Upper  
164 100  
162 103.0 82.6 123.8  
160 44.2 36.2 54.2

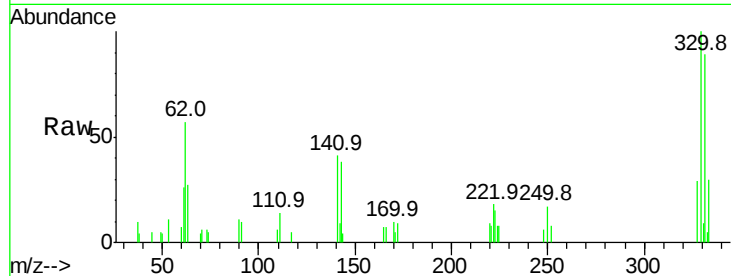




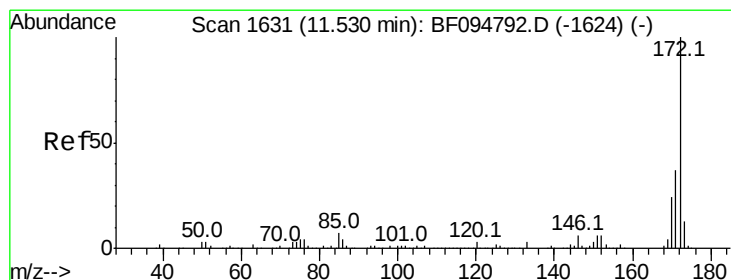
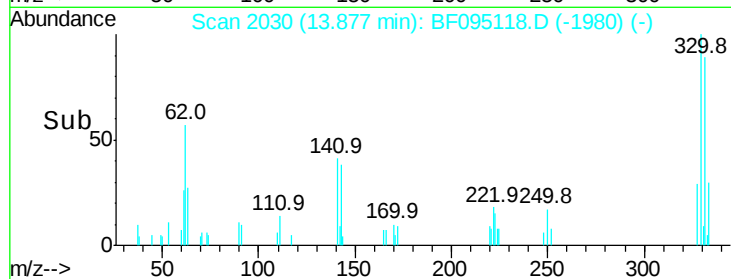
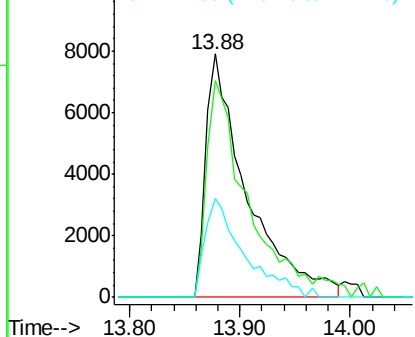
#41  
 2,4,6-Tribromophenol  
 Concen: 14.03 ng  
 RT: 13.88 min Scan# 2030  
 Delta R.T. -0.01 min  
 Lab File: BF095118.D  
 Acq: 12 May 2017 18:30

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:330 Resp: 20312  
 Ion Ratio Lower Upper  
 330 100  
 332 86.0 76.6 115.0  
 141 38.6 31.4 47.2

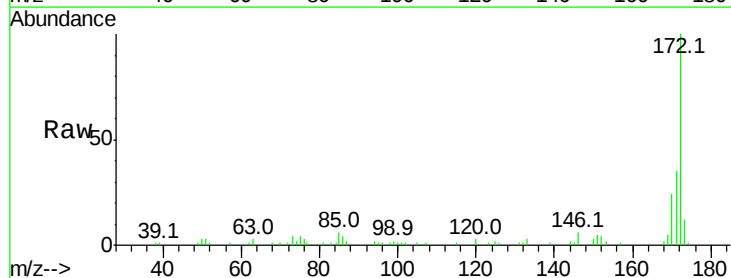


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

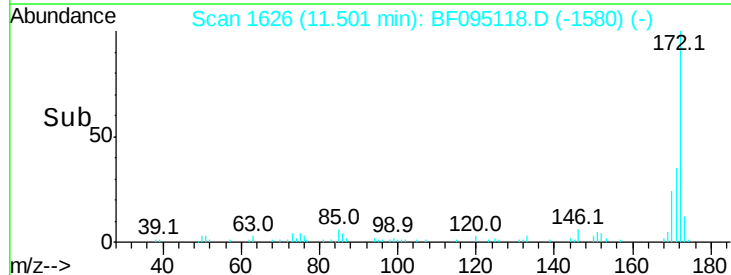
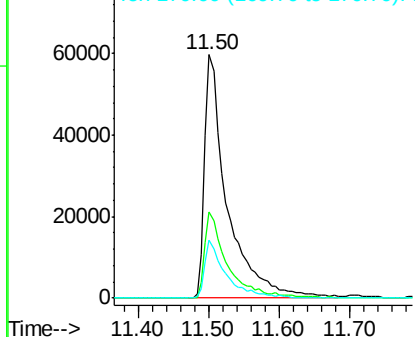


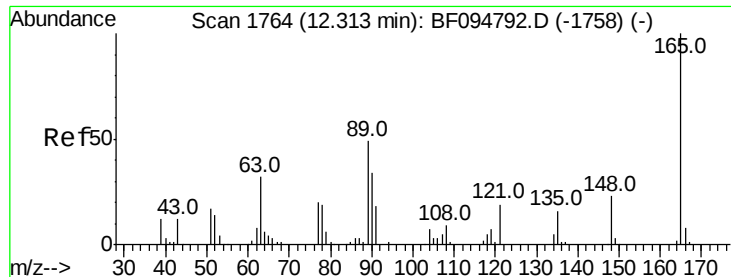
#44  
 2-Fluorobiphenyl  
 Concen: 10.90 ng  
 RT: 11.50 min Scan# 1626  
 Delta R.T. -0.03 min  
 Lab File: BF095118.D  
 Acq: 12 May 2017 18:30

Tgt Ion:172 Resp: 133825  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 29.6 44.4  
 170 23.8 19.8 29.8



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

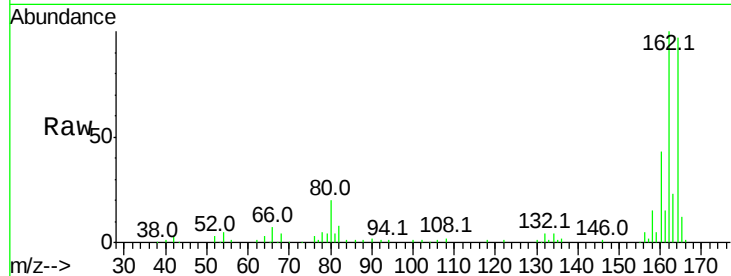




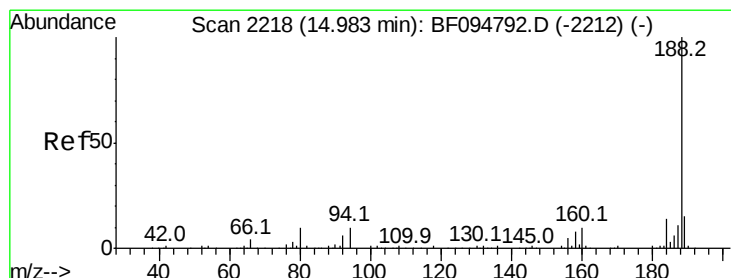
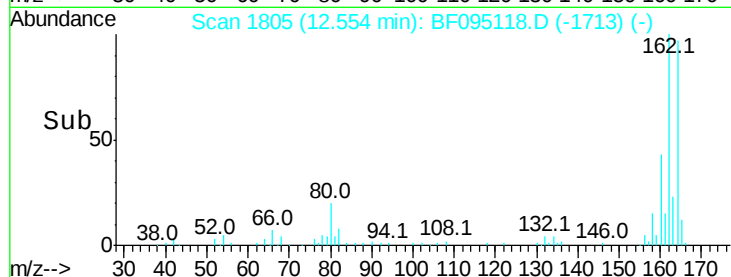
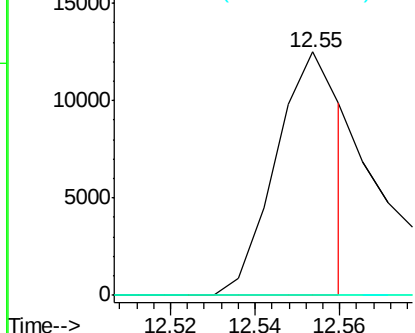
#50  
 2,6-Dinitrotoluene  
 Concen: 4.48 ng  
 RT: 12.55 min Scan# 1805  
 Delta R.T. 0.24 min  
 Lab File: BF095118.D  
 Acq: 12 May 2017 18:30

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 13253  
 Ion Ratio Lower Upper  
 165 100  
 63 0.0 34.3 51.5#  
 89 0.0 37.1 55.7#

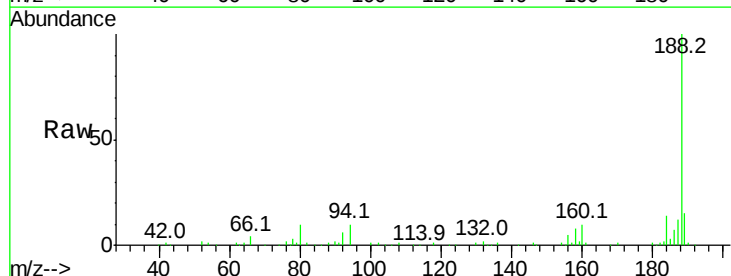


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0

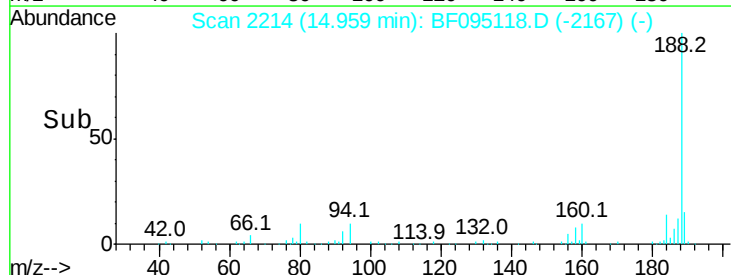
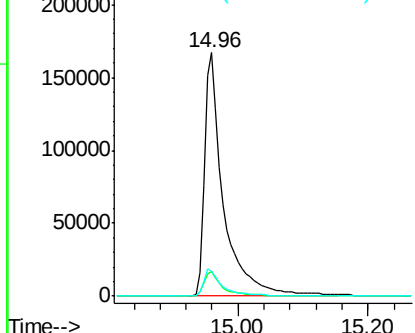


#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 14.96 min Scan# 2214  
 Delta R.T. -0.02 min  
 Lab File: BF095118.D  
 Acq: 12 May 2017 18:30

Tgt Ion:188 Resp: 335694  
 Ion Ratio Lower Upper  
 188 100  
 94 10.2 9.4 14.2  
 80 10.3 10.2 15.2



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 18.63 min Scan# 2838

Delta R.T. -0.02 min

Lab File: BF095118.D

Acq: 12 May 2017 18:30

Instrument :

BNA\_F

ClientSampleId :

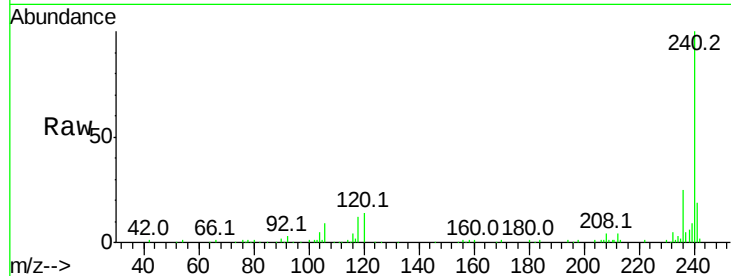
Tot Ion:240 Resp: 275206

Ion Ratio Lower Upper

240 100

120 13.8 5.8 8.8#

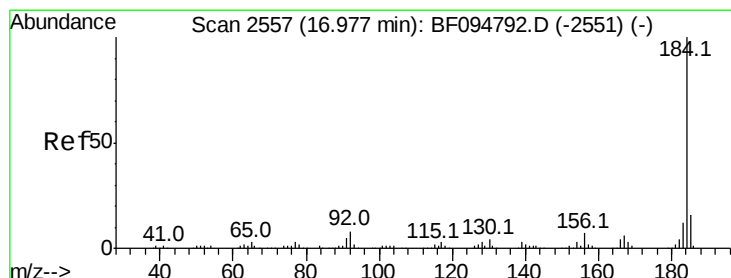
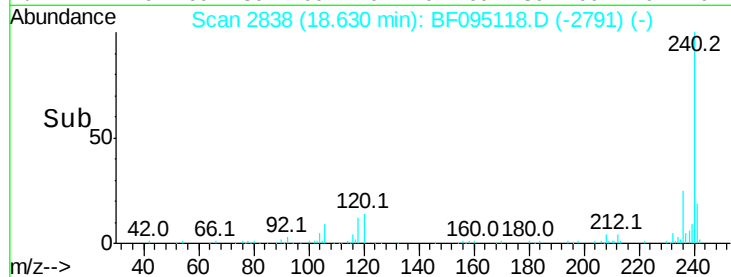
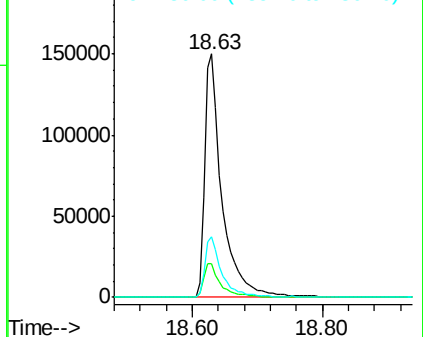
236 24.9 20.5 30.7



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



#76

Benzidine

Concen: 6.93 ng

RT: 17.05 min Scan# 2569

Delta R.T. 0.07 min

Lab File: BF095118.D

Acq: 12 May 2017 18:30

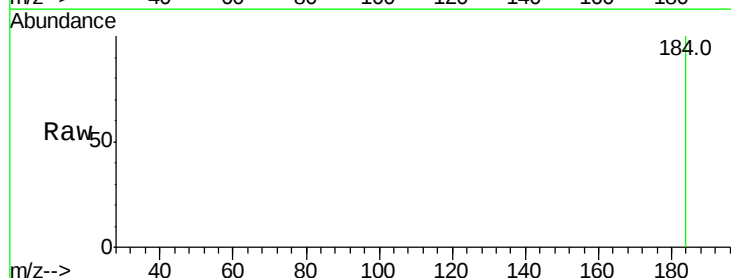
Tgt Ion:184 Resp: 2915

Ion Ratio Lower Upper

184 100

185 0.0 15.5 23.3#

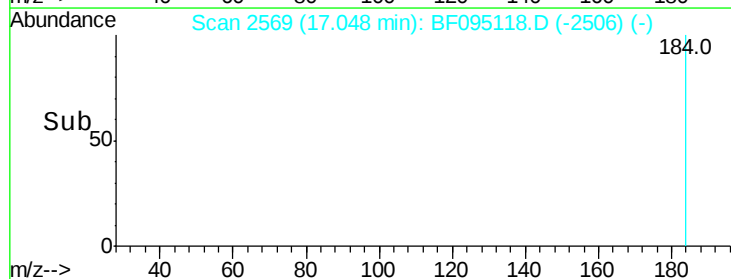
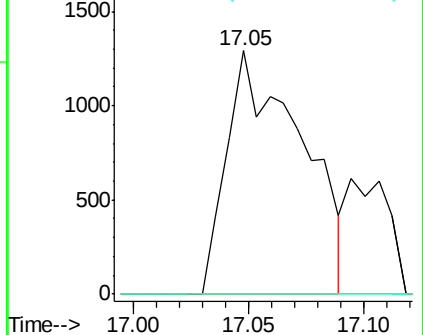
183 0.0 9.8 14.6#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

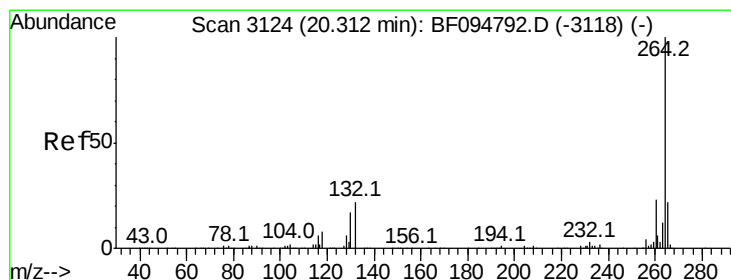
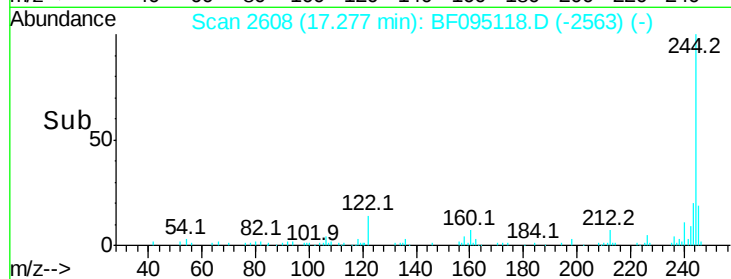
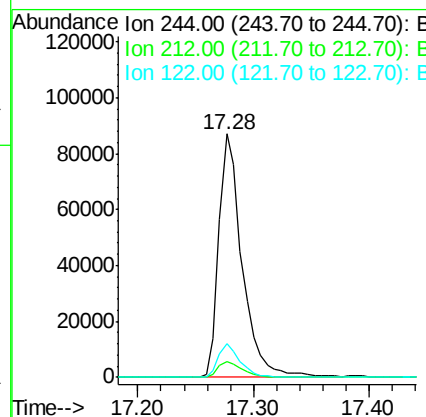
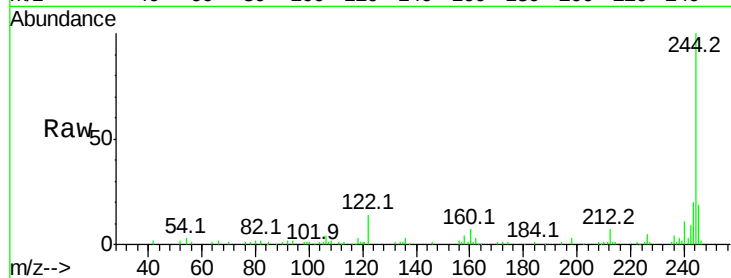




#78  
 Terphenyl-d14  
 Concen: 9.79 ng  
 RT: 17.28 min Scan# 2608  
 Delta R.T. -0.04 min  
 Lab File: BF095118.D  
 Acq: 12 May 2017 18:30

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 6.0   | 9.0   |
| 122     | 14.1  | 10.3  | 15.5  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 20.30 min Scan# 3122  
 Delta R.T. -0.01 min  
 Lab File: BF095118.D  
 Acq: 12 May 2017 18:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.6  | 19.5  | 29.3  |
| 265     | 22.7  | 17.2  | 25.8  |

