

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101917\  
 Data File : BF099682.D  
 Acq On : 20 Oct 2017 2:57  
 Operator : SJ/JU  
 Sample : I5968-01  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 101717-TIDO-F-D-B

Quant Time: Oct 20 13:51:46 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 20 13:11:43 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 101233   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 416130   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10        | 9.85  | 164  | 180337   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10        | 11.34 | 188  | 268662   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12            | 13.98 | 240  | 186075   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12            | 15.44 | 264  | 197016   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 293261   | 46.12  | ng    | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 221432   | 28.23  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 601996   | 92.77  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.65 | 330  | 126851   | 85.96  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.17  | 172  | 1115239  | 103.24 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.92 | 244  | 737107   | 90.09  | ng    | 0.00     |

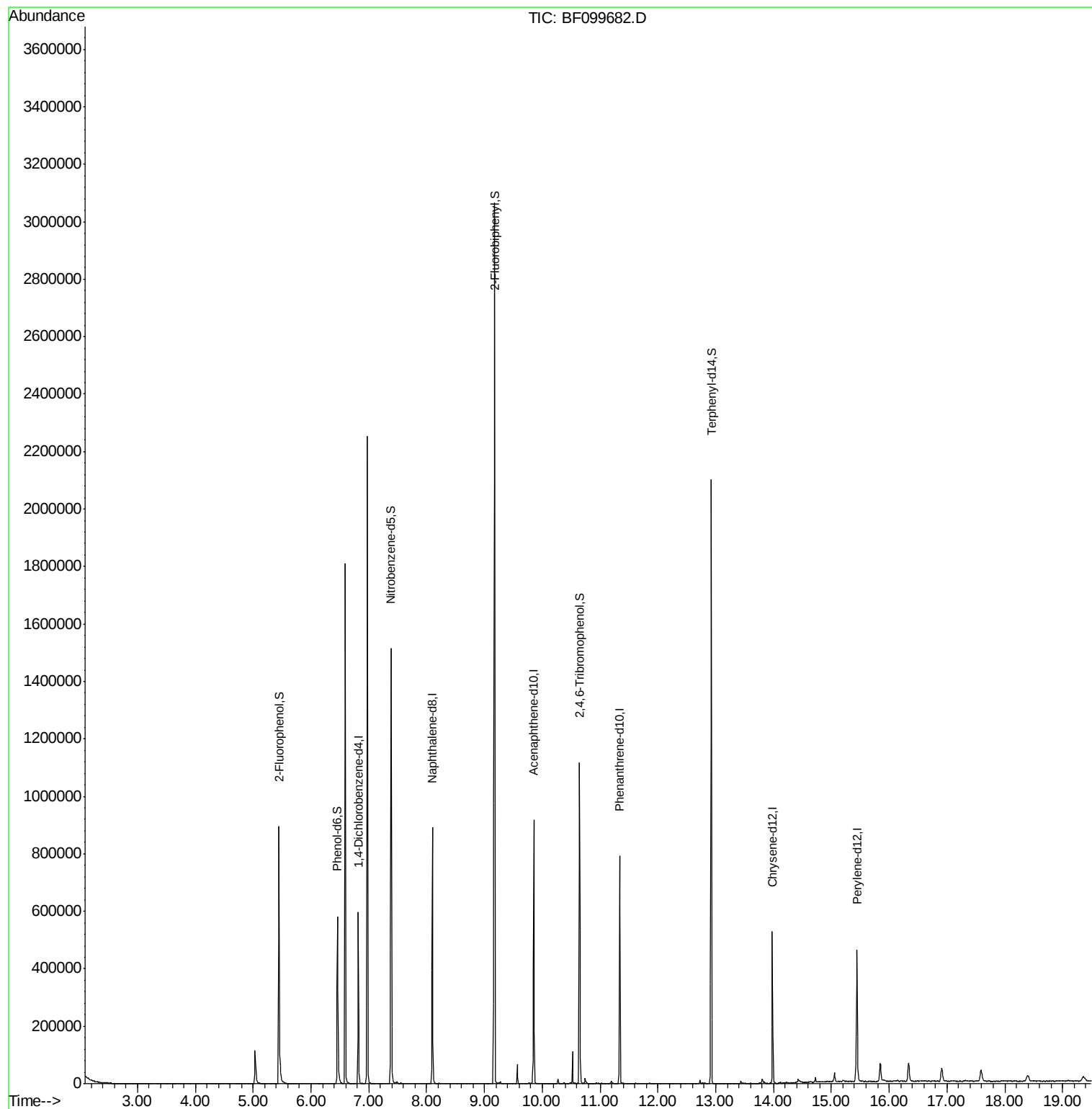
Target Compounds Qvalue

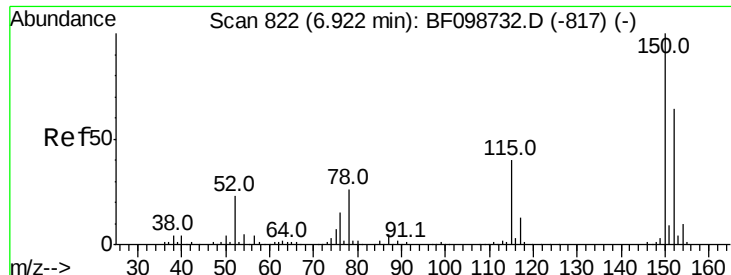
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101917\  
Data File : BF099682.D  
Acq On : 20 Oct 2017 2:57  
Operator : SJ/JU  
Sample : I5968-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
101717-TIDO-F-D-B

Quant Time: Oct 20 13:51:46 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Oct 20 13:11:43 2017  
Response via : Initial Calibration



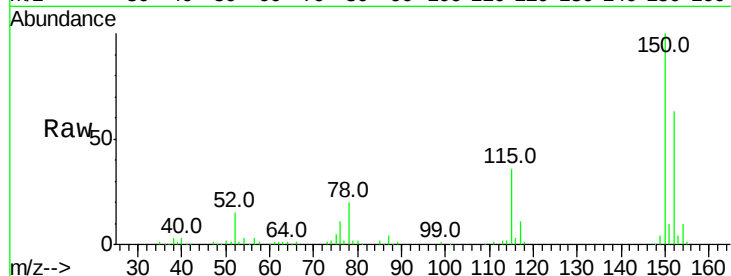


#1

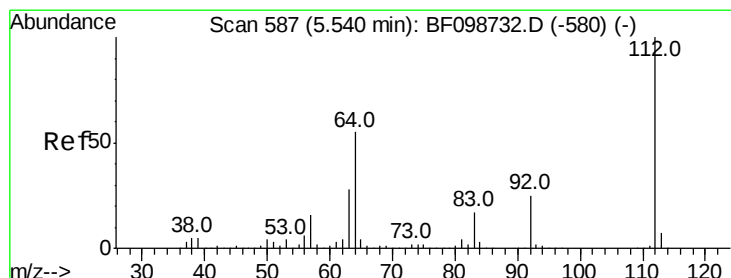
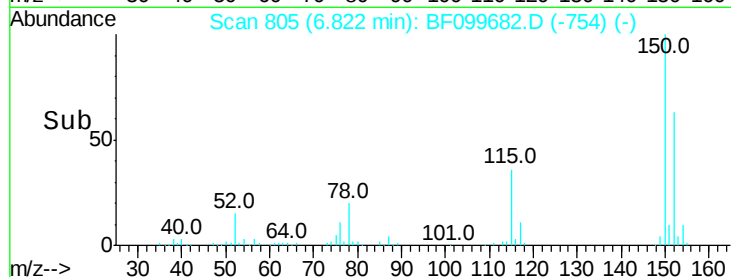
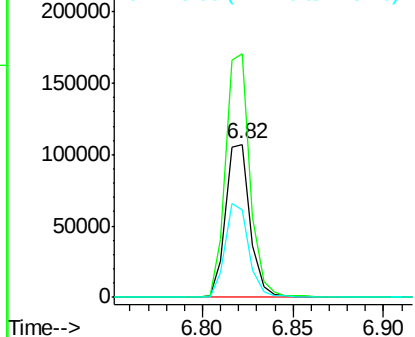
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.82 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: BF099682.D  
 Acq: 20 Oct 2017 2:57

Instrument :  
 BNA\_F  
 ClientSampleId :  
 101717-TIDO-F-D-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 159.1 | 124.6 | 186.8 |
| 115     | 56.7  | 50.1  | 75.1  |



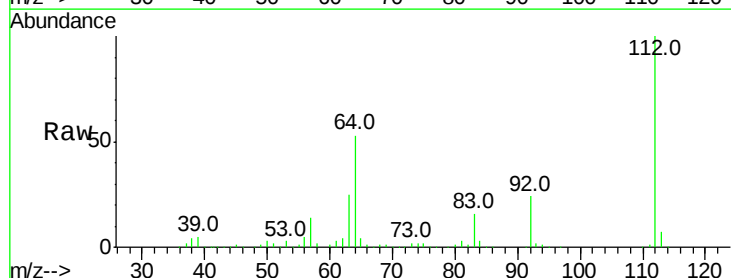
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



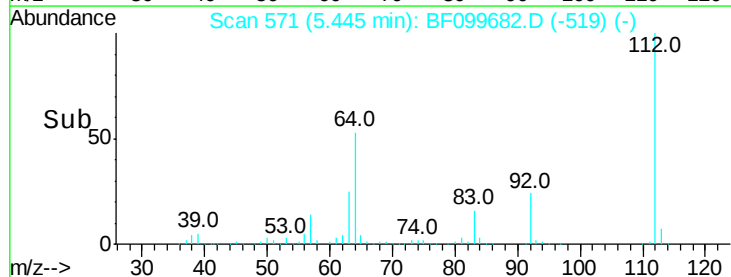
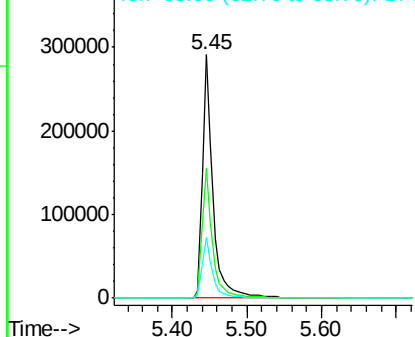
#5

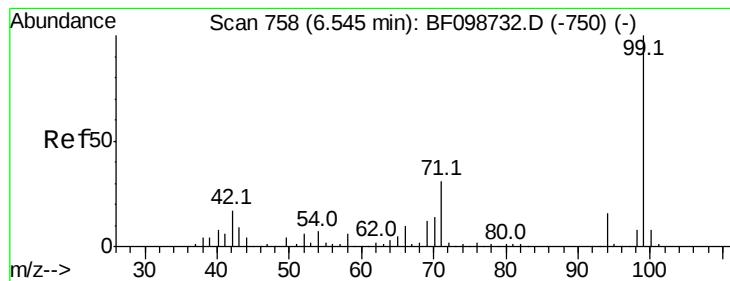
2-Fluorophenol  
 Concen: 46.116 ng  
 RT: 5.45 min Scan# 571  
 Delta R.T. 0.01 min  
 Lab File: BF099682.D  
 Acq: 20 Oct 2017 2:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 53.0  | 47.9  | 71.9  |
| 63      | 24.8  | 23.7  | 35.5  |



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: 28.226 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.01 min

Lab File: BF099682.D

Acq: 20 Oct 2017 2:57

Instrument :

BNA\_F

ClientSampleId :

101717-TIDO-F-D-B

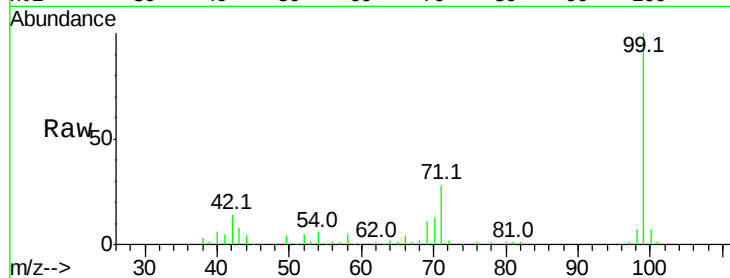
Tot Ion: 99 Resp: 221432

Ion Ratio Lower Upper

99 100

42 13.9 14.5 21.7#

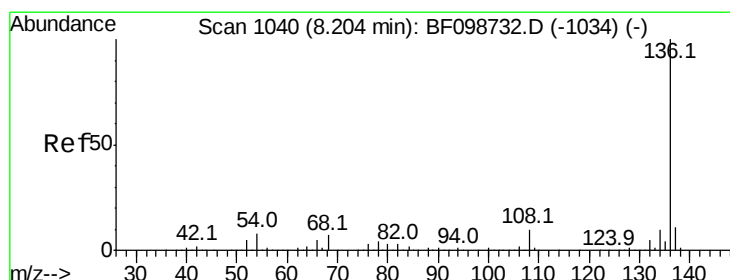
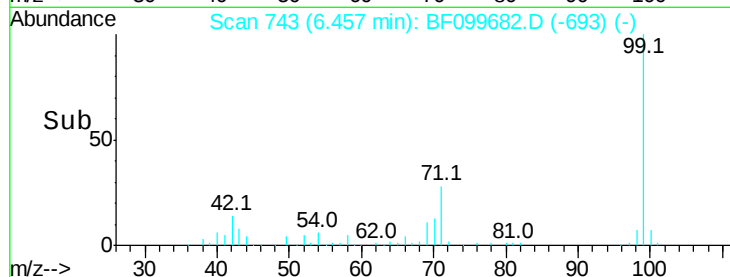
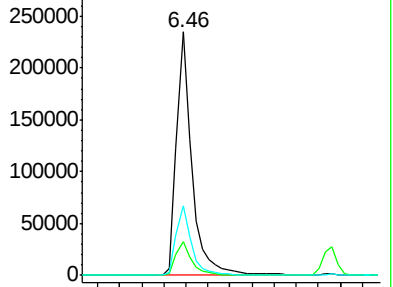
71 28.4 25.4 38.0



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF099682.D

Acq: 20 Oct 2017 2:57

Tgt Ion: 136 Resp: 416130

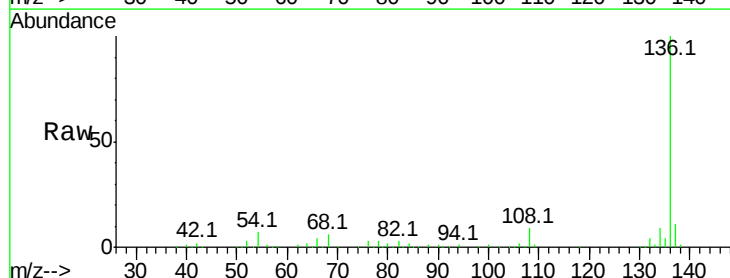
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 7.1 6.6 9.8

68 5.8 5.0 7.4

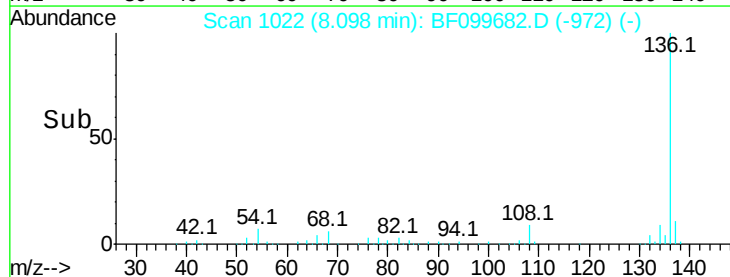
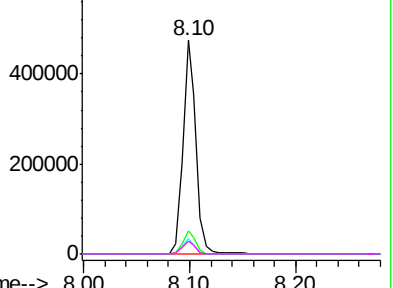


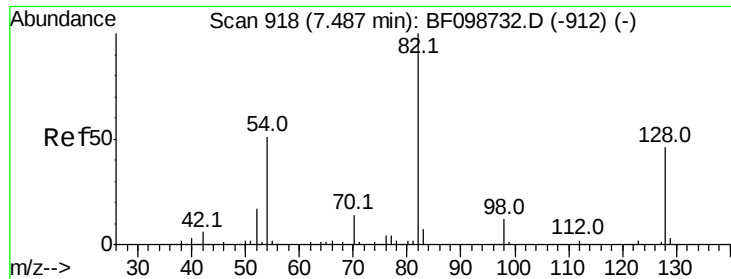
Abundance Ion 136.00 (135.70 to 136.70): E

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

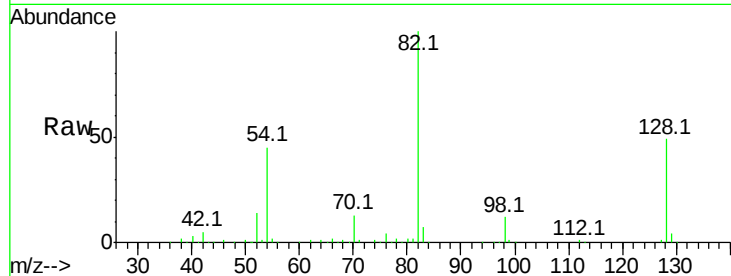




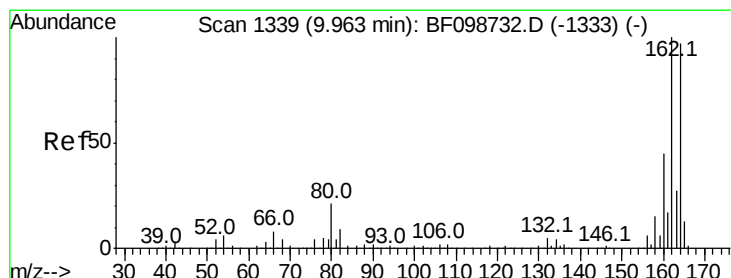
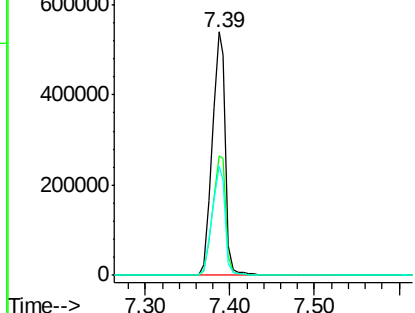
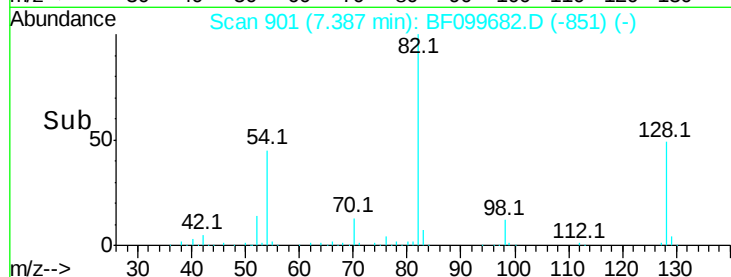
#23  
Nitrobenzene-d5  
Concen: 92.774 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BF099682.D  
Acq: 20 Oct 2017 2:57

Instrument :  
BNA\_F  
ClientSampleId :  
101717-TIDO-F-D-B

Tot Ion: 82 Resp: 601996  
Ion Ratio Lower Upper  
82 100  
128 49.3 36.1 54.1  
54 45.0 41.4 62.2

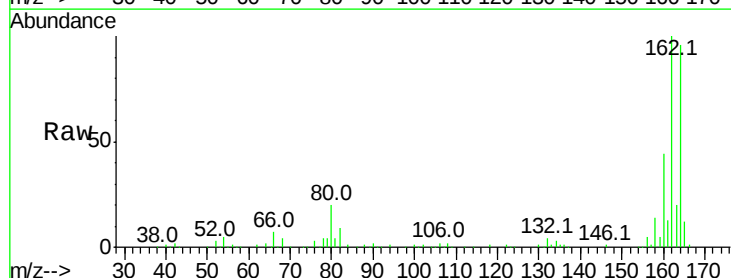


Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): B  
Ion 54.00 (53.70 to 54.70): BF0

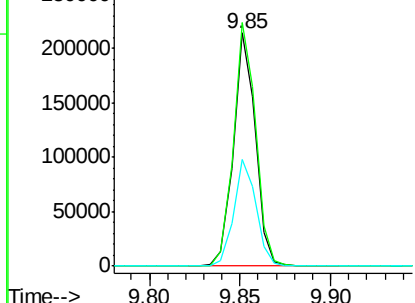
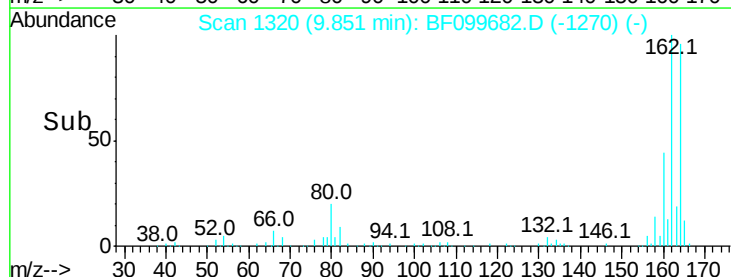


#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.01 min  
Lab File: BF099682.D  
Acq: 20 Oct 2017 2:57

Tgt Ion:164 Resp: 180337  
Ion Ratio Lower Upper  
164 100  
162 104.4 86.1 129.1  
160 45.6 38.3 57.5



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

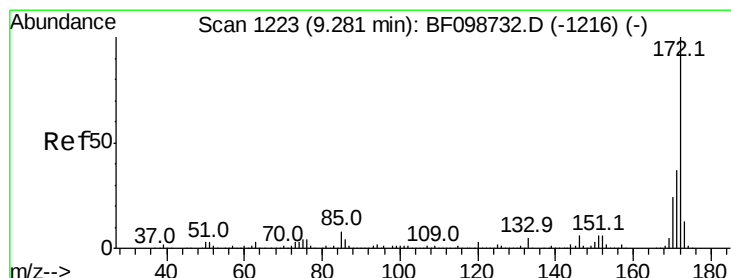
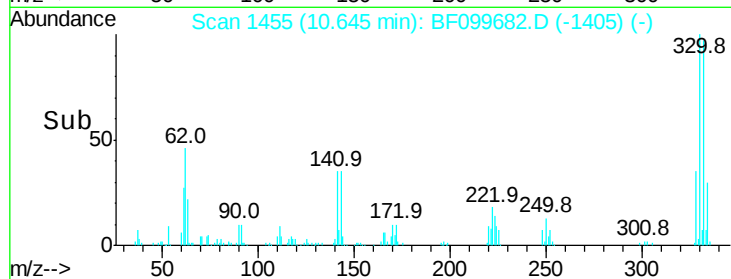
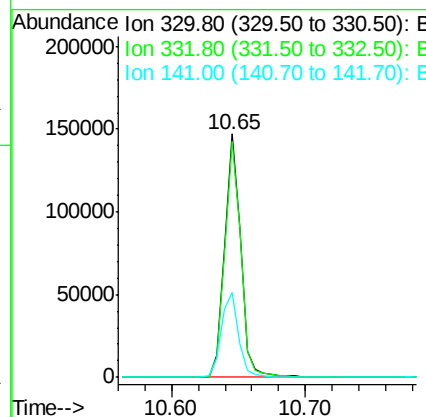
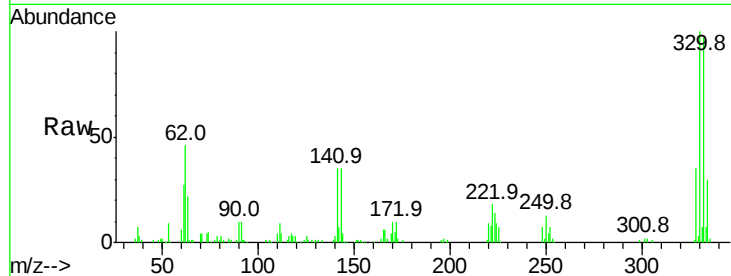




#41  
 2,4,6-Tribromophenol  
 Concen: 85.963 ng  
 RT: 10.65 min Scan# 1455  
 Delta R.T. -0.01 min  
 Lab File: BF099682.D  
 Acq: 20 Oct 2017 2:57

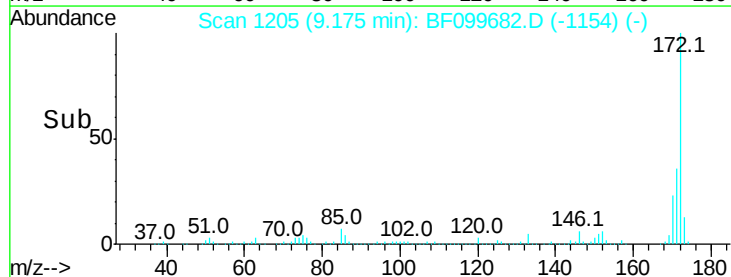
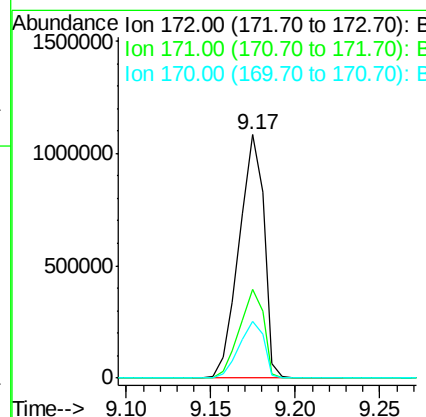
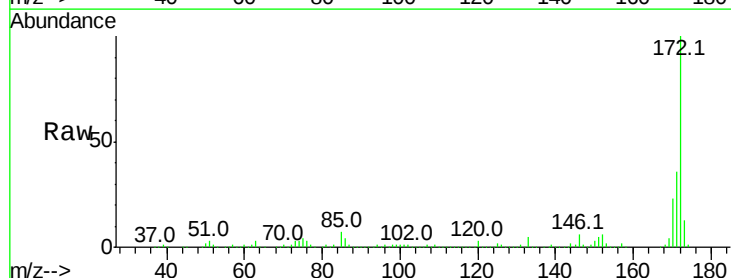
Instrument :  
 BNA\_F  
 ClientSampleId :  
 101717-TIDO-F-D-B

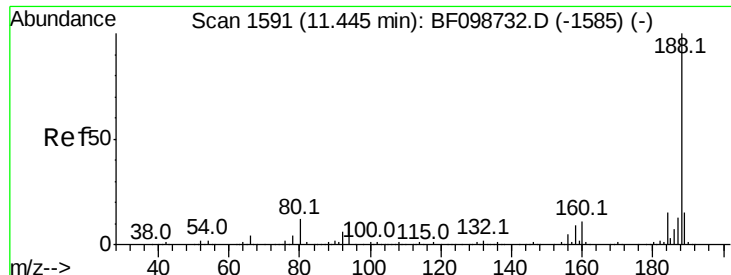
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.1  | 77.0  | 115.6 |
| 141     | 37.4  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 103.240 ng  
 RT: 9.17 min Scan# 1205  
 Delta R.T. 0.00 min  
 Lab File: BF099682.D  
 Acq: 20 Oct 2017 2:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.5  | 29.7  | 44.5  |
| 170     | 23.3  | 19.6  | 29.4  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF099682.D

Acq: 20 Oct 2017 2:57

Instrument :

BNA\_F

ClientSampleId :

101717-TIDO-F-D-B

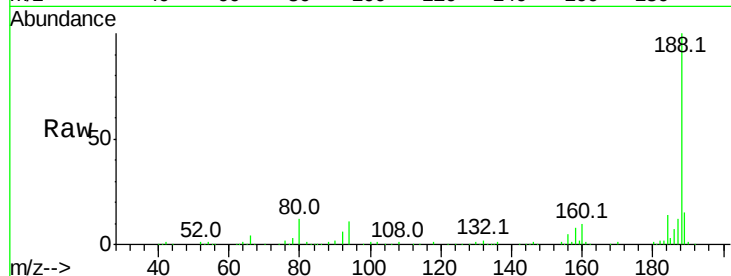
Tot Ion:188 Resp: 268662

Ion Ratio Lower Upper

188 100

94 11.3 8.5 12.7

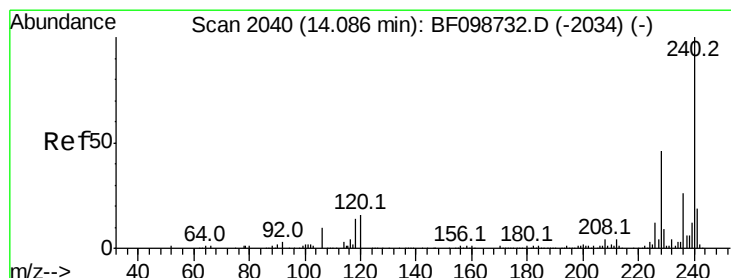
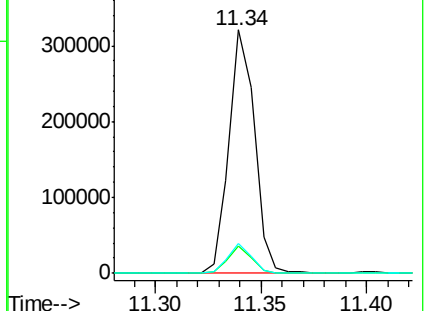
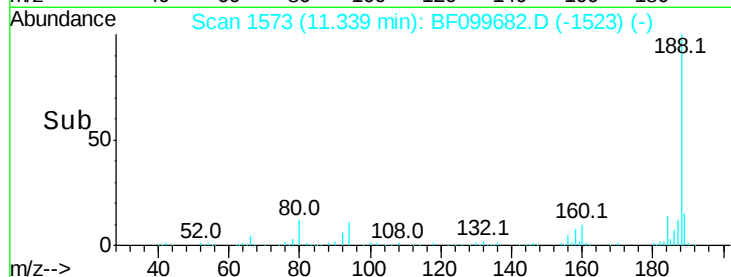
80 12.3 9.2 13.8



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: 20.000 ng

RT: 13.98 min Scan# 2022

Delta R.T. -0.01 min

Lab File: BF099682.D

Acq: 20 Oct 2017 2:57

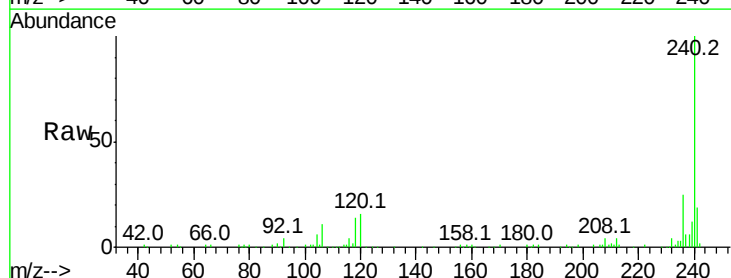
Tgt Ion:240 Resp: 186075

Ion Ratio Lower Upper

240 100

120 16.1 9.5 14.3#

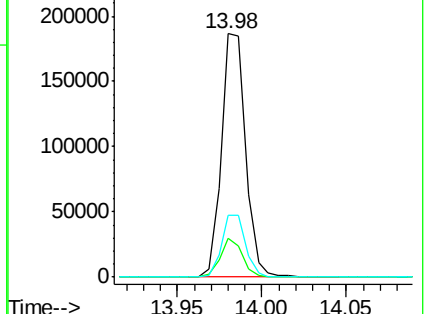
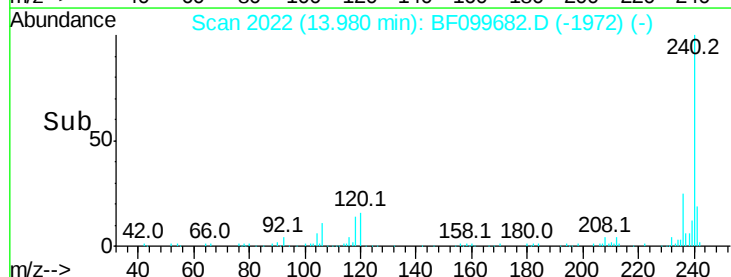
236 25.4 20.7 31.1

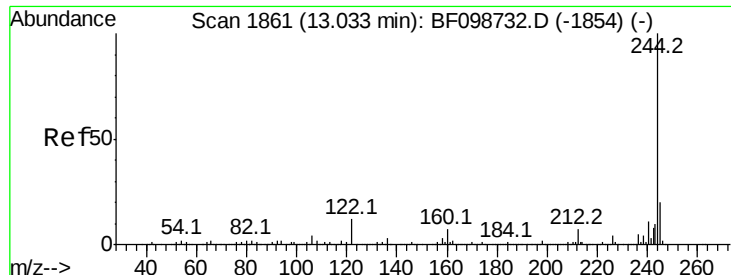


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 90.089 ng

RT: 12.92 min Scan# 1842

Delta R.T. 0.00 min

Lab File: BF099682.D

Acq: 20 Oct 2017 2:57

Instrument :

BNA\_F

ClientSampleId :

101717-TIDO-F-D-B

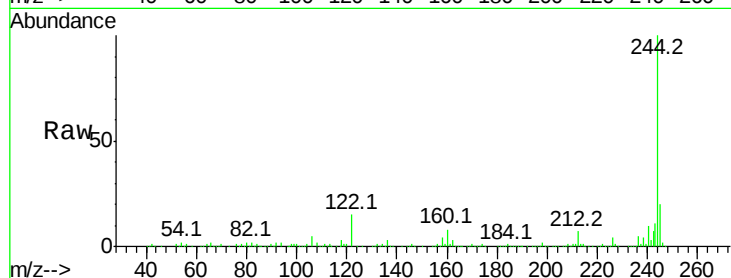
Tot Ion:244 Resp: 737107

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

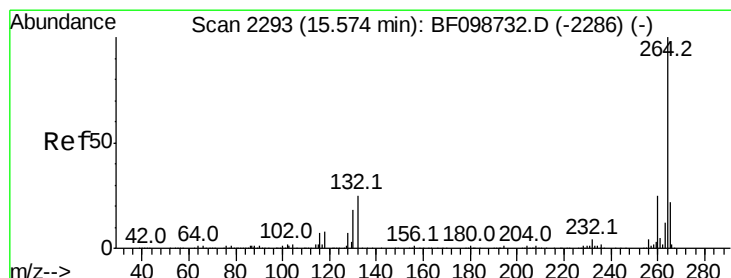
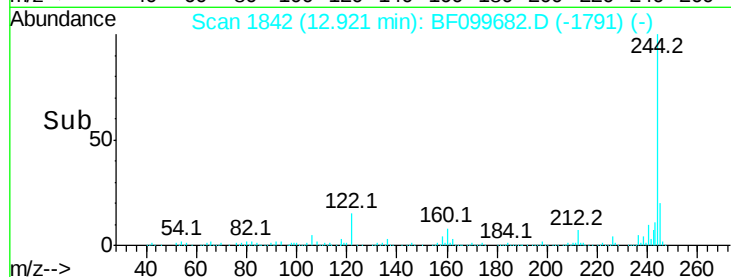
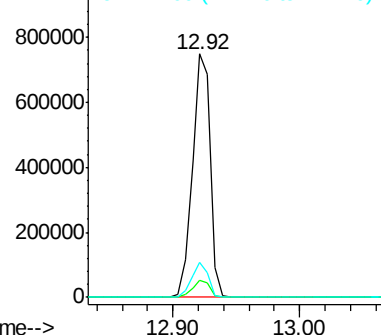
122 14.5 11.0 16.4



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: 20.000 ng

RT: 15.44 min Scan# 2271

Delta R.T. 0.01 min

Lab File: BF099682.D

Acq: 20 Oct 2017 2:57

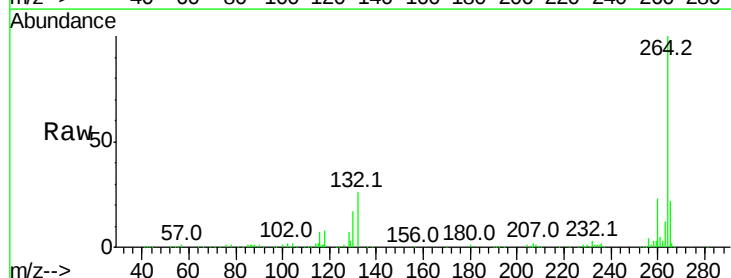
Tgt Ion:264 Resp: 197016

Ion Ratio Lower Upper

264 100

260 23.1 19.2 28.8

265 21.8 17.5 26.3



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

