

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF031618\  
 Data File : BF103734.D  
 Acq On : 17 Mar 2018 10:45  
 Operator : JU/SJ  
 Sample : J1938-04  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-1

Quant Time: Mar 19 08:26:59 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 15 18:31:53 2018  
 Response via : Initial Calibration

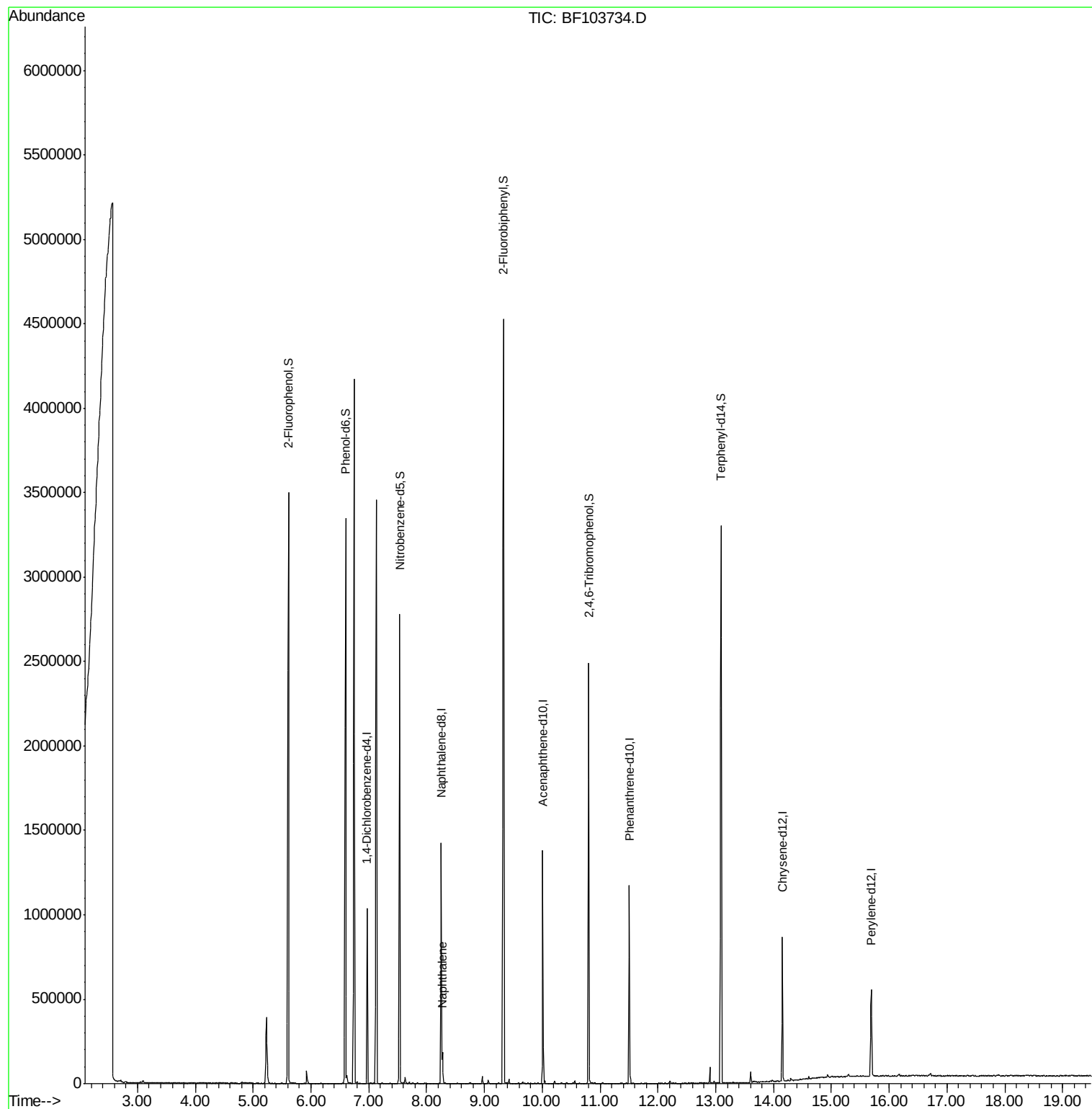
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)     |
|-----------------------------|-------|------|----------|--------|-------|--------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.97  | 152  | 154000   | 20.00  | ng    | 0.00         |
| 21) Naphthalene-d8          | 8.25  | 136  | 610531   | 20.00  | ng    | 0.00         |
| 38) Acenaphthene-d10        | 10.01 | 164  | 254507   | 20.00  | ng    | 0.00         |
| 63) Phenanthrene-d10        | 11.50 | 188  | 366467   | 20.00  | ng    | 0.00         |
| 75) Chrysene-d12            | 14.15 | 240  | 280896   | 20.00  | ng    | 0.00         |
| 86) Perylene-d12            | 15.69 | 264  | 220586   | 20.00  | ng    | 0.01         |
| System Monitoring Compounds |       |      |          |        |       |              |
| 5) 2-Fluorophenol           | 5.61  | 112  | 1235912  | 122.07 | ng    | 0.03         |
| 7) Phenol-d6                | 6.60  | 99   | 1376597  | 111.13 | ng    | 0.01         |
| 23) Nitrobenzene-d5         | 7.53  | 82   | 1018040  | 116.28 | ng    | 0.00         |
| 41) 2,4,6-Tribromophenol    | 10.80 | 330  | 304944   | 139.35 | ng    | 0.00         |
| 44) 2-Fluorobiphenyl        | 9.33  | 172  | 1612333  | 101.05 | ng    | 0.00         |
| 78) Terphenyl-d14           | 13.09 | 244  | 1185470  | 97.96  | ng    | 0.00         |
| Target Compounds            |       |      |          |        |       |              |
| 31) Naphthalene             | 8.27  | 128  | 73099    | 2.370  | ng    | Qvalue<br>98 |

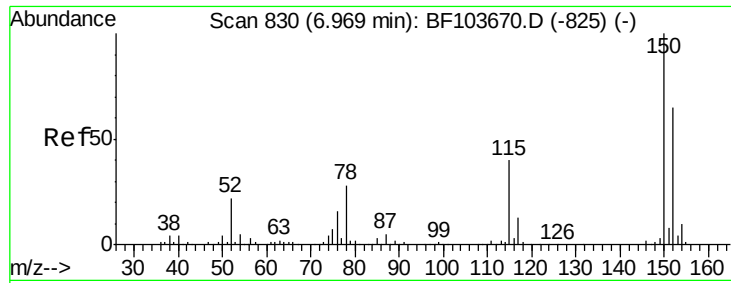
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF031618\  
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Misc :  
ALS Vial : 35 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :  
CS-1

Quant Time: Mar 19 08:26:59 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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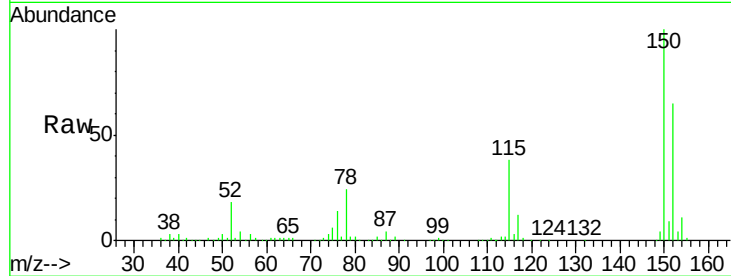


#1

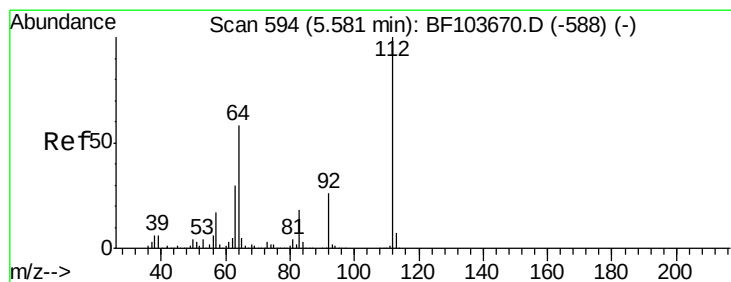
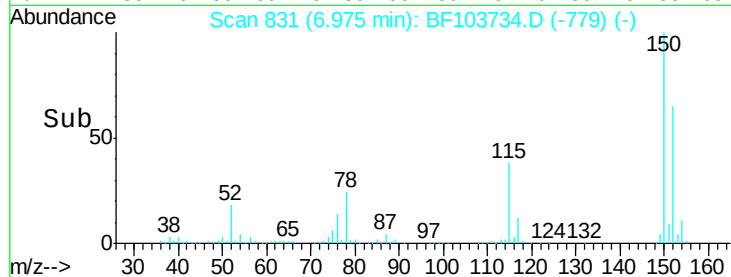
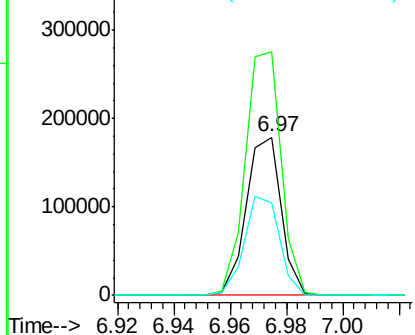
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.97 min Scan# 831  
Delta R.T. 0.01 min  
Lab File: BF103734.D  
Acq: 17 Mar 2018 10:45

Instrument :  
BNA\_F  
ClientSampleId :  
CS-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.1 | 124.6 | 186.8 |
| 115     | 58.8  | 50.1  | 75.1  |



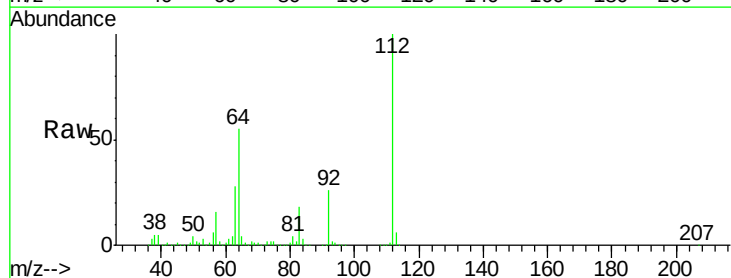
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



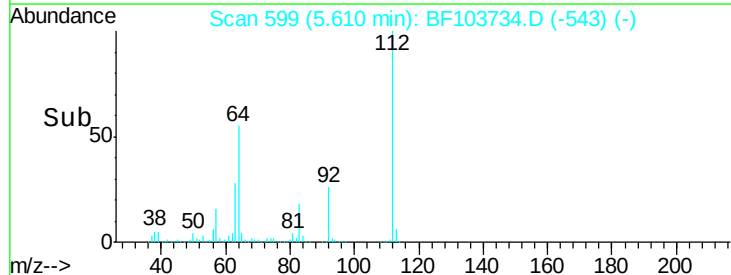
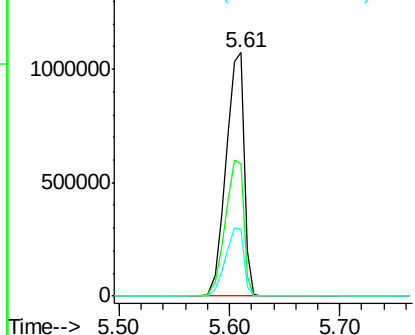
#5

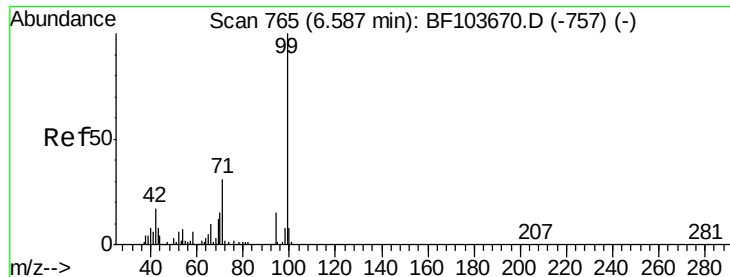
2-Fluorophenol  
Concen: 122.066 ng  
RT: 5.61 min Scan# 599  
Delta R.T. 0.03 min  
Lab File: BF103734.D  
Acq: 17 Mar 2018 10:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.6  | 47.9  | 71.9  |
| 63      | 27.7  | 23.7  | 35.5  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 111.131 ng

RT: 6.60 min Scan# 767

Delta R.T. 0.01 min

Lab File: BF103734.D

Acq: 17 Mar 2018 10:45

Instrument :

BNA\_F

ClientSampleId :

CS-1

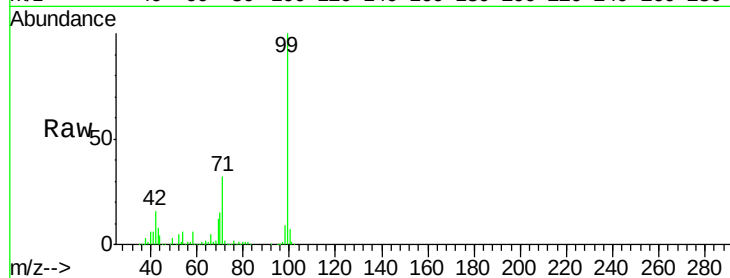
Tot Ion: 99 Resp: 1376597

Ion Ratio Lower Upper

99 100

42 15.9 14.5 21.7

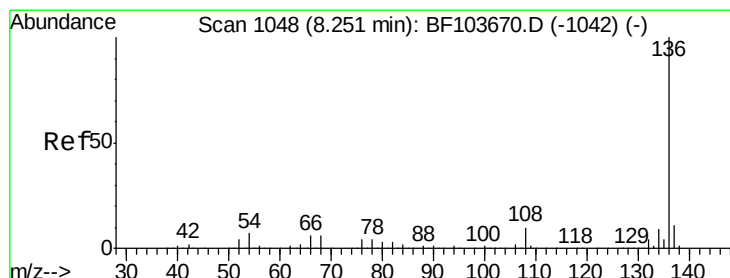
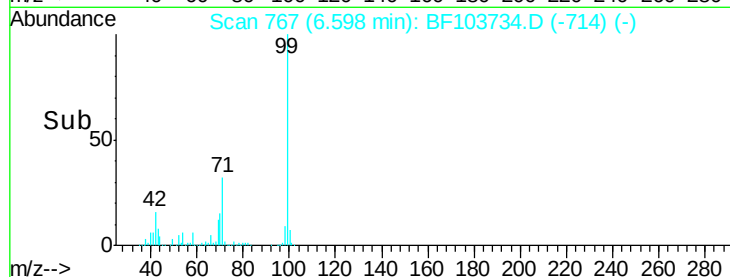
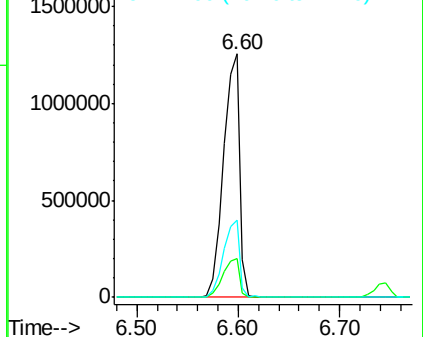
71 31.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BF103734.D

Acq: 17 Mar 2018 10:45

Tgt Ion: 136 Resp: 610531

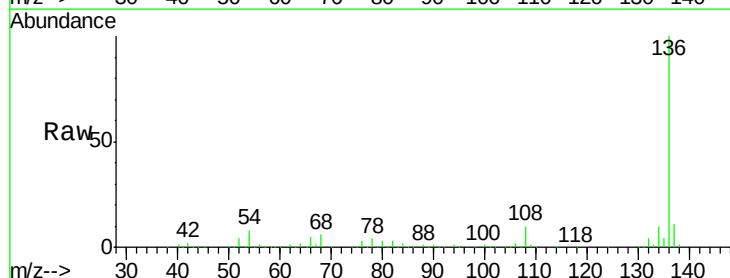
Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 7.6 6.6 9.8

68 6.4 5.0 7.4

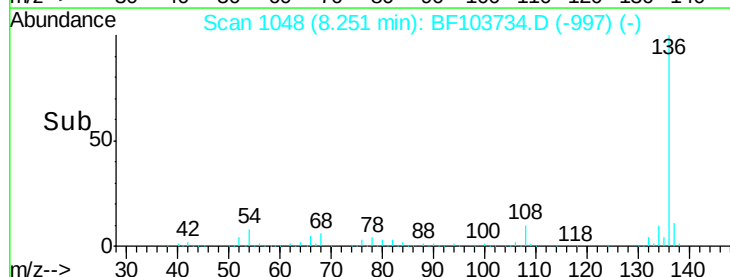
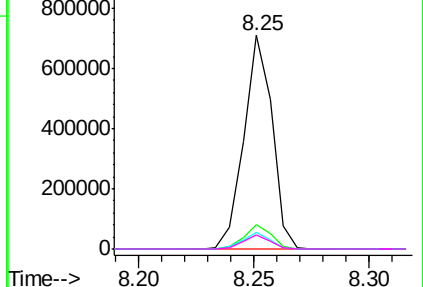


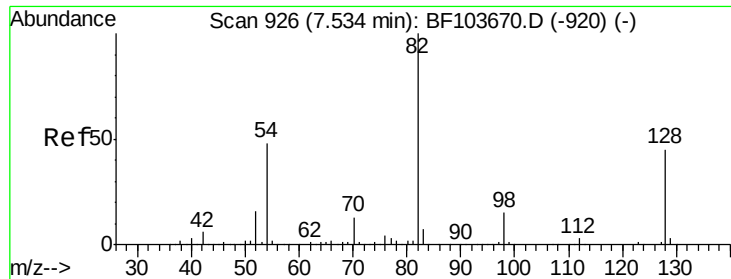
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

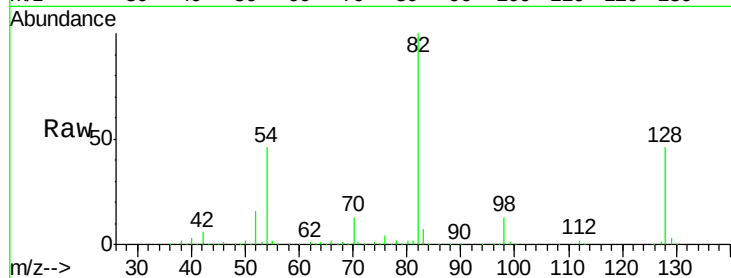




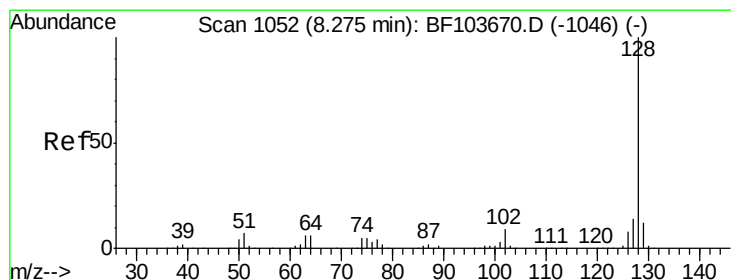
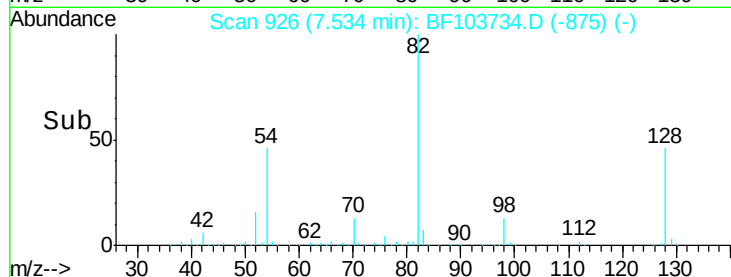
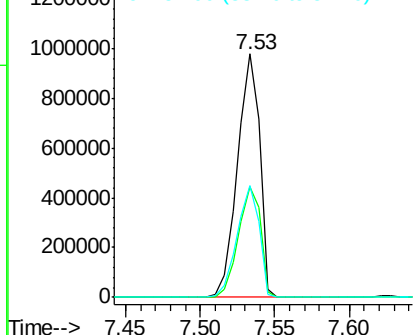
#23  
Nitrobenzene-d5  
Concen: 116.282 ng  
RT: 7.53 min Scan# 926  
Delta R.T. -0.00 min  
Lab File: BF103734.D  
Acq: 17 Mar 2018 10:45

Instrument :  
BNA\_F  
ClientSampleId :  
CS-1

Tot Ion: 82 Resp: 1018040  
Ion Ratio Lower Upper  
82 100  
128 45.5 36.1 54.1  
54 46.1 41.4 62.2

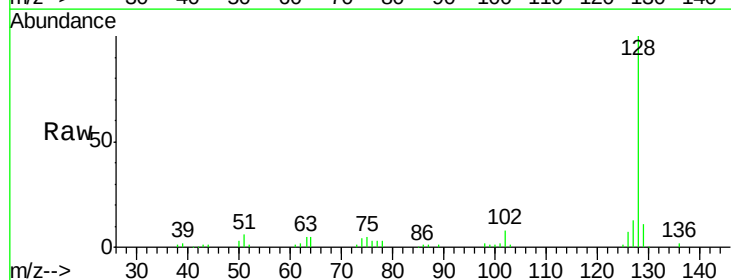


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

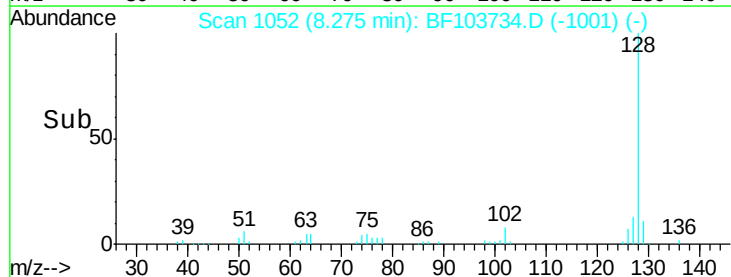
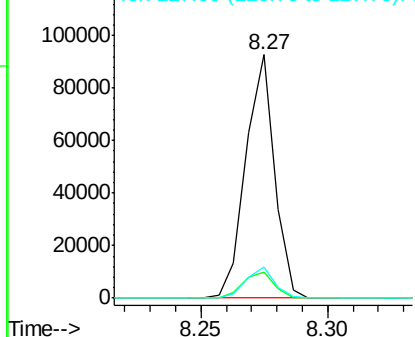


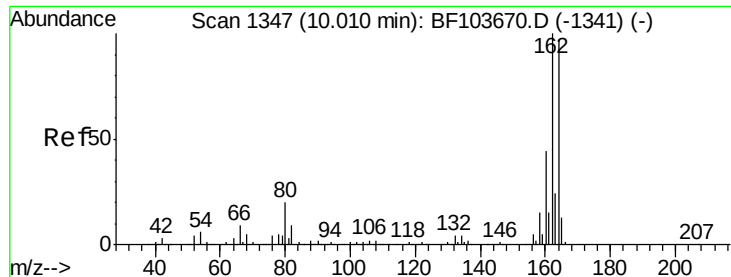
#31  
Naphthalene  
Concen: 2.370 ng  
RT: 8.27 min Scan# 1052  
Delta R.T. -0.00 min  
Lab File: BF103734.D  
Acq: 17 Mar 2018 10:45

Tgt Ion: 128 Resp: 73099  
Ion Ratio Lower Upper  
128 100  
129 10.7 8.8 13.2  
127 12.6 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): BF1  
Ion 129.00 (128.70 to 129.70): BF1  
Ion 127.00 (126.70 to 127.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.00 min

Lab File: BF103734.D

Acq: 17 Mar 2018 10:45

Instrument :

BNA\_F

ClientSampleId :

CS-1

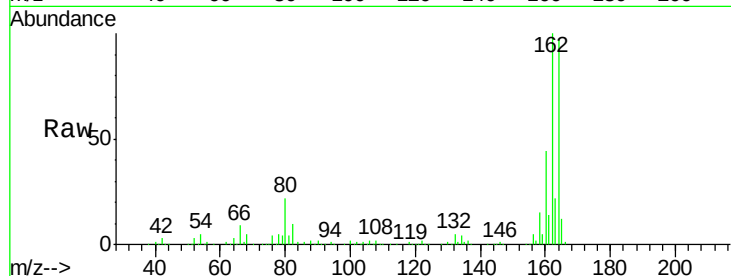
Tot Ion:164 Resp: 254507

Ion Ratio Lower Upper

164 100

162 102.8 86.1 129.1

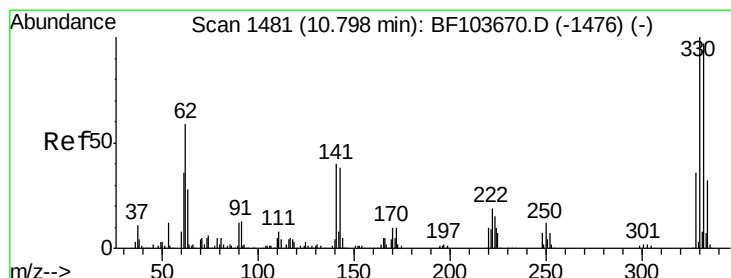
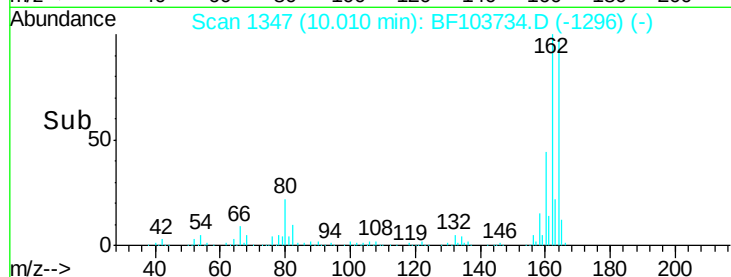
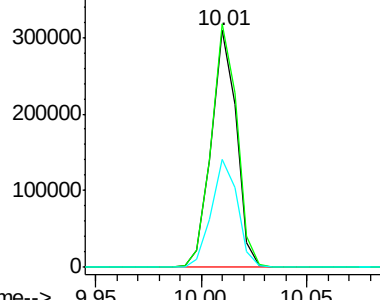
160 45.6 38.3 57.5



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: 139.354 ng

RT: 10.80 min Scan# 1482

Delta R.T. 0.01 min

Lab File: BF103734.D

Acq: 17 Mar 2018 10:45

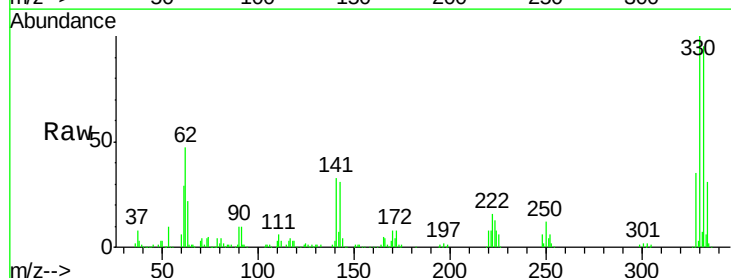
Tgt Ion:330 Resp: 304944

Ion Ratio Lower Upper

330 100

332 95.5 77.0 115.6

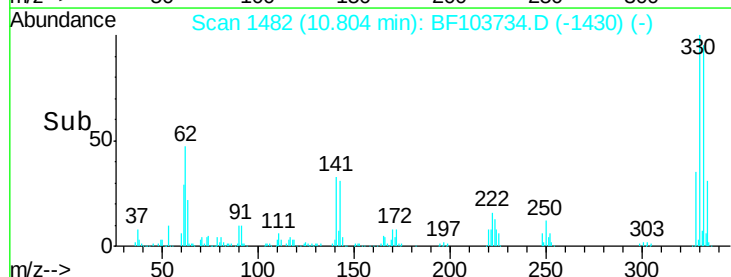
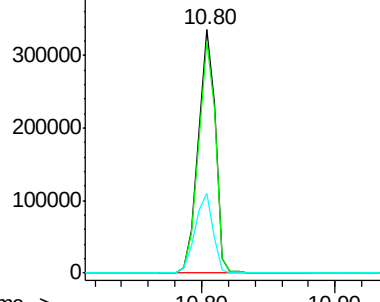
141 34.3 29.9 44.9

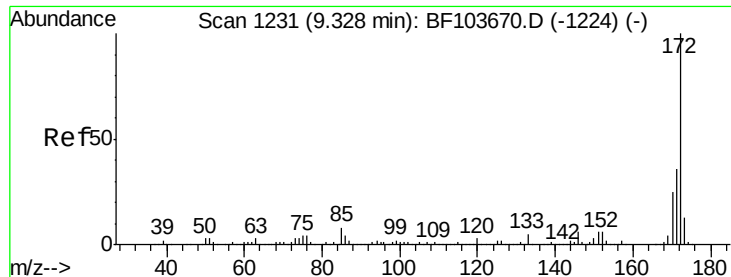


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



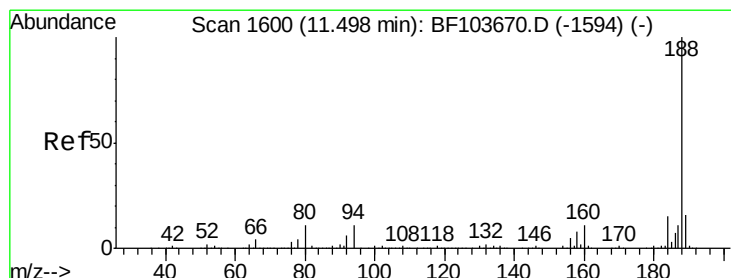
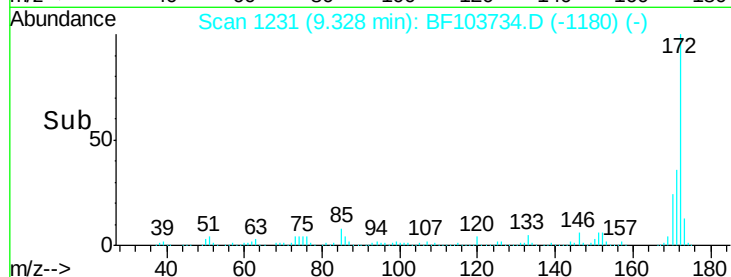
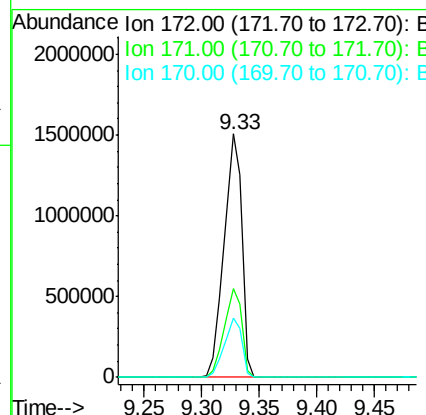
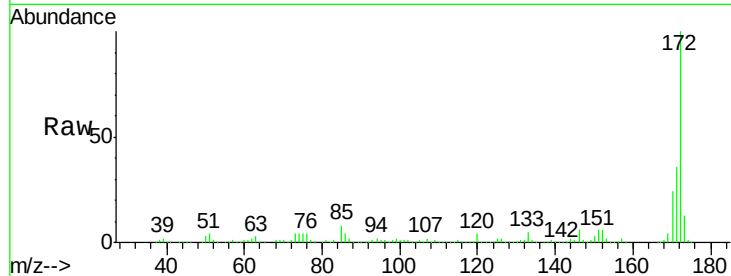


#44  
 2-Fluorobiphenyl  
 Concen: 101.055 ng  
 RT: 9.33 min Scan# 1231  
 Delta R.T. 0.00 min  
 Lab File: BF103734.D  
 Acq: 17 Mar 2018 10:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-1

Tot Ion:172 Resp: 1612333  

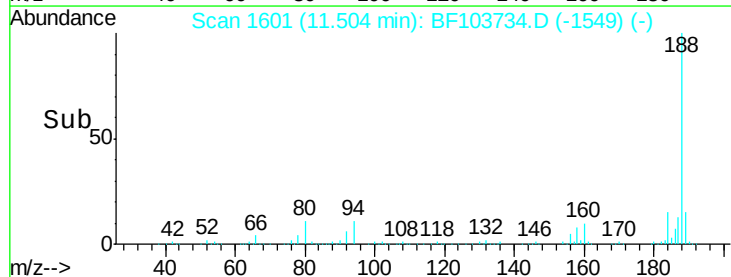
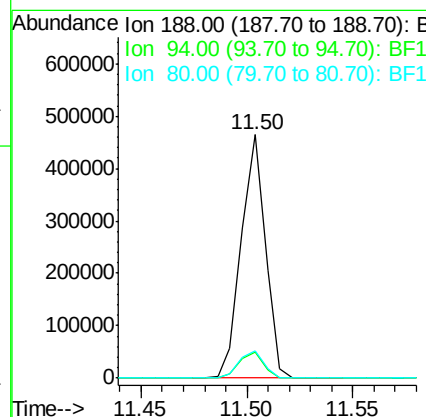
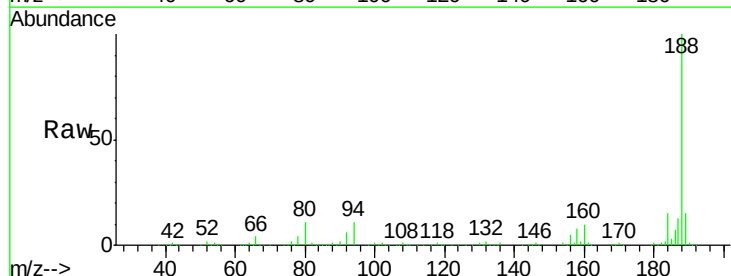
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.3  | 29.7  | 44.5  |
| 170 | 24.3  | 19.6  | 29.4  |

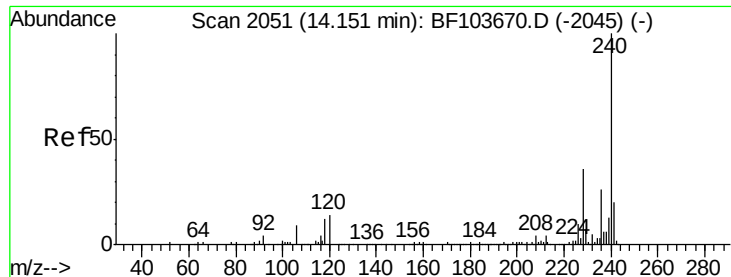


#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.50 min Scan# 1601  
 Delta R.T. 0.01 min  
 Lab File: BF103734.D  
 Acq: 17 Mar 2018 10:45

Tgt Ion:188 Resp: 366467  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 10.8  | 8.5   | 12.7  |
| 80  | 11.3  | 9.2   | 13.8  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2051

Delta R.T. -0.00 min

Lab File: BF103734.D

Acq: 17 Mar 2018 10:45

Instrument :

BNA\_F

ClientSampleId :

CS-1

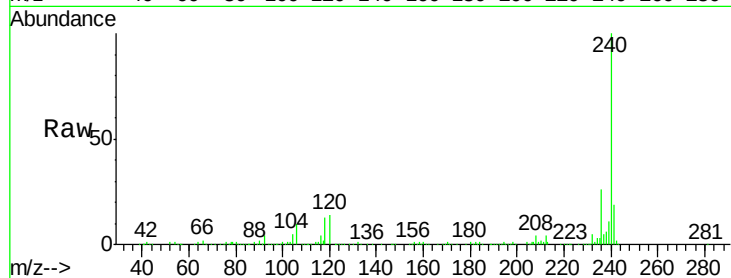
Tot Ion:240 Resp: 280896

Ion Ratio Lower Upper

240 100

120 14.5 9.5 14.3#

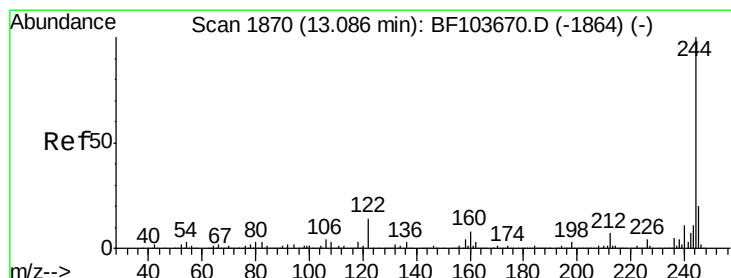
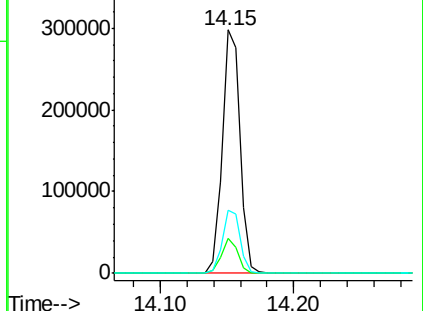
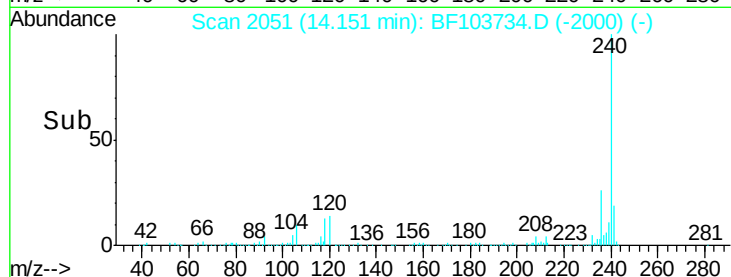
236 25.9 20.7 31.1



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: 97.960 ng

RT: 13.09 min Scan# 1871

Delta R.T. 0.01 min

Lab File: BF103734.D

Acq: 17 Mar 2018 10:45

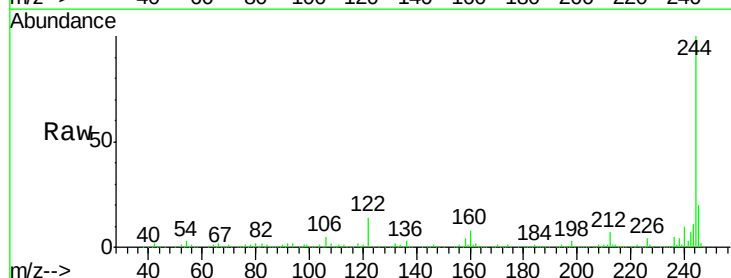
Tgt Ion:244 Resp: 1185470

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

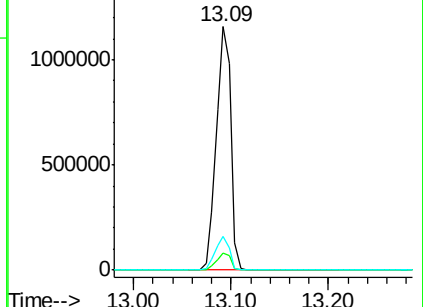
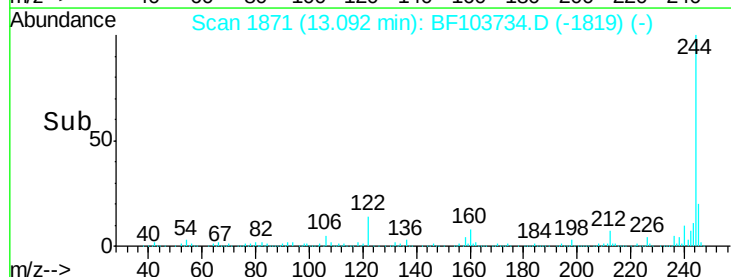
122 13.6 11.0 16.4



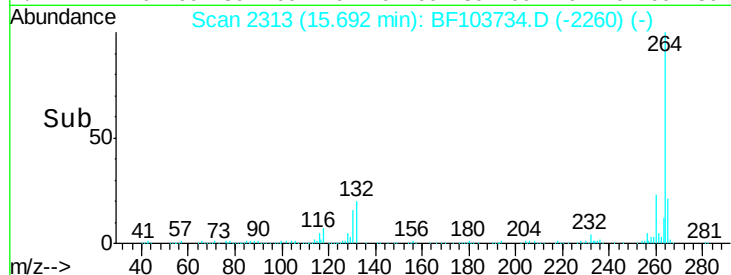
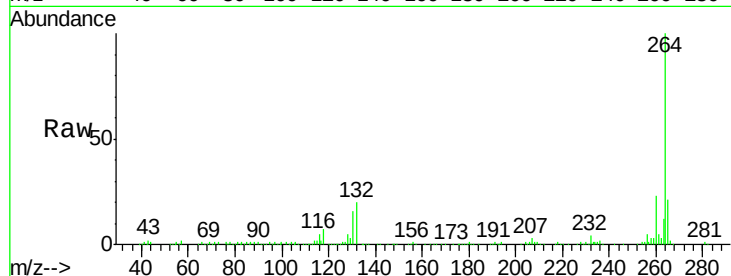
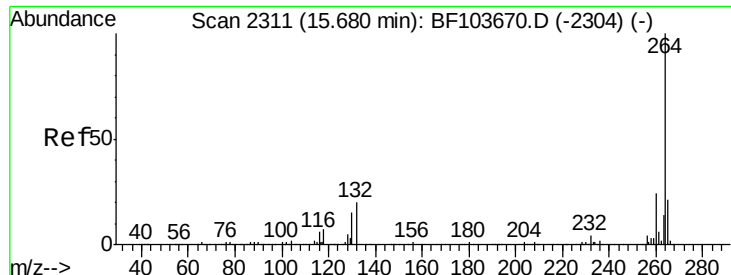
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E







#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.69 min Scan# 2313  
 Delta R.T. 0.01 min  
 Lab File: BF103734.D  
 Acq: 17 Mar 2018 10:45

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CS-1

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 220586 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.4  | 19.2  | 28.8   |
| 265      | 21.2  | 17.5  | 26.3   |

