

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
 Data File : BF101863.D  
 Acq On : 3 Jan 2018 16:44  
 Operator : SJ/JU  
 Sample : J1022-01 2X  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 04 00:08:06 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 29 13:21:45 2017  
 Response via : Initial Calibration

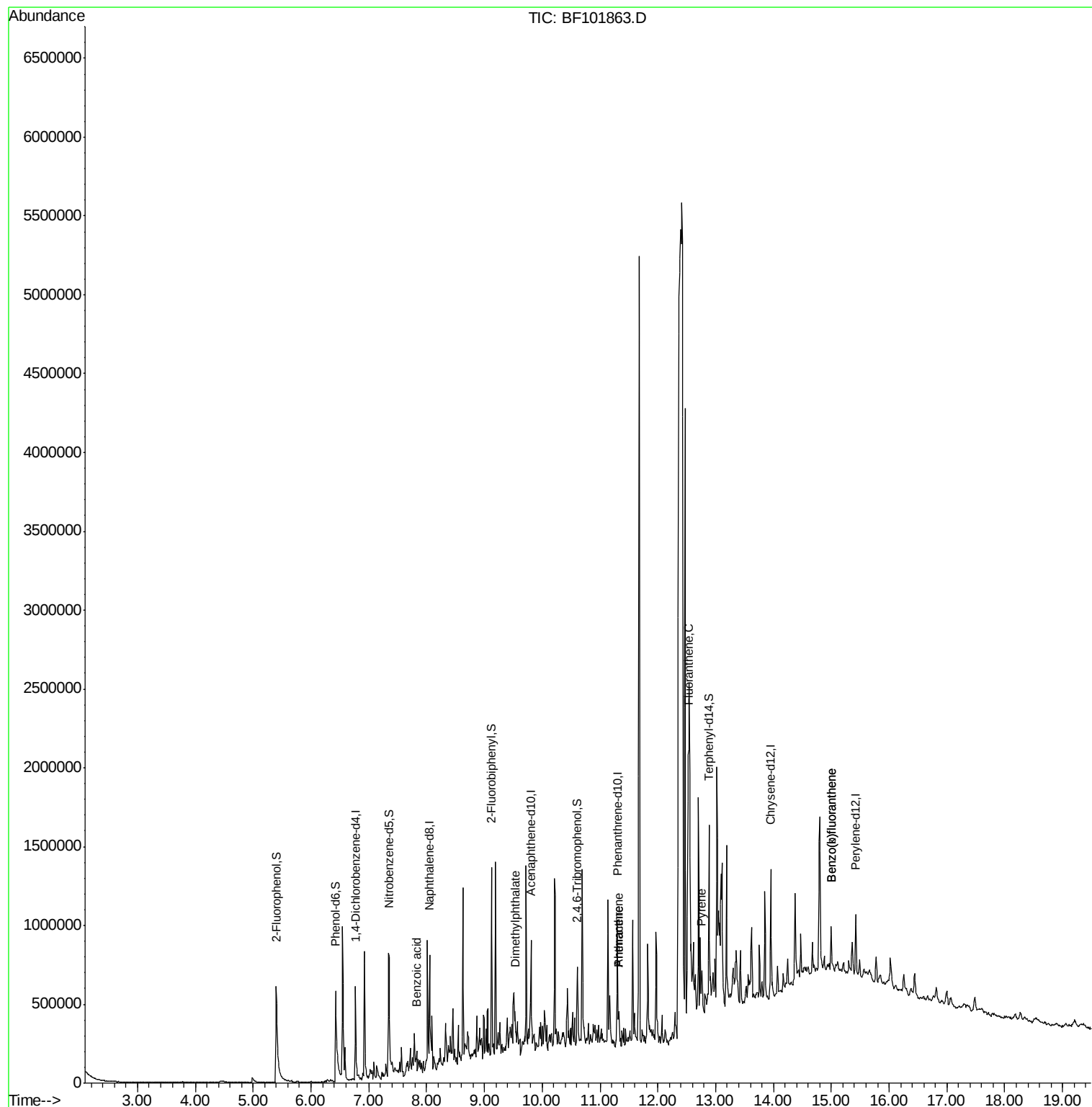
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.77  | 152  | 104525   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.05  | 136  | 353887   | 20.00 | ng    | -0.02    |
| 38) Acenaphthene-d10        | 9.80  | 164  | 136583   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10        | 11.30 | 188  | 273348   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12            | 13.96 | 240  | 280237   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12            | 15.42 | 264  | 209762   | 20.00 | ng    | -0.02    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.40  | 112  | 382929   | 54.57 | ng    | 0.00     |
| 7) Phenol-d6                | 6.43  | 99   | 433315   | 49.62 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 233945   | 36.80 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.61 | 330  | 72050    | 54.75 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.12  | 172  | 366440   | 41.62 | ng    | -0.02    |
| 78) Terphenyl-d14           | 12.89 | 244  | 400135   | 34.42 | ng    | -0.01    |
| Target Compounds            |       |      |          |       |       |          |
| 32) Benzoic acid            | 7.83  | 122  | 228      | 8.016 | ng    | # 1      |
| 49) Dimethylphthalate       | 9.53  | 163  | 30527    | 2.779 | ng    | # 97     |
| 70) Phenanthrene            | 11.33 | 178  | 63630    | 4.186 | ng    | 100      |
| 71) Anthracene              | 11.33 | 178  | 63630    | 4.098 | ng    | 99       |
| 74) Fluoranthene            | 12.53 | 202  | 66701    | 4.180 | ng    | 95       |
| 77) Pyrene                  | 12.76 | 202  | 77857    | 3.702 | ng    | 98       |
| 87) Benzo(b)fluoranthene    | 15.00 | 252  | 41833    | 3.272 | ng    | # 67     |
| 88) Benzo(k)fluoranthene    | 15.00 | 252  | 41833    | 3.365 | ng    | # 70     |

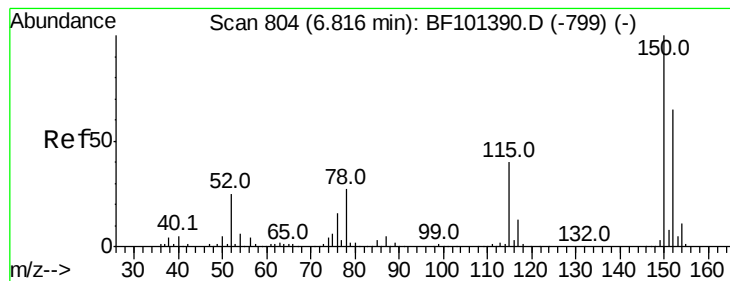
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010318\  
Data File : BF101863.D  
Acq On : 3 Jan 2018 16:44  
Operator : SJ/JU  
Sample : J1022-01 2X  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jan 04 00:08:06 2018  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 29 13:21:45 2017  
Response via : Initial Calibration



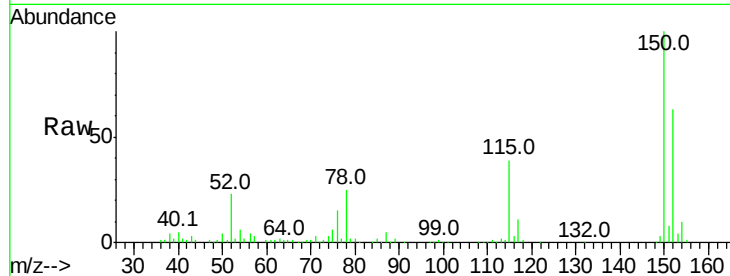


#1

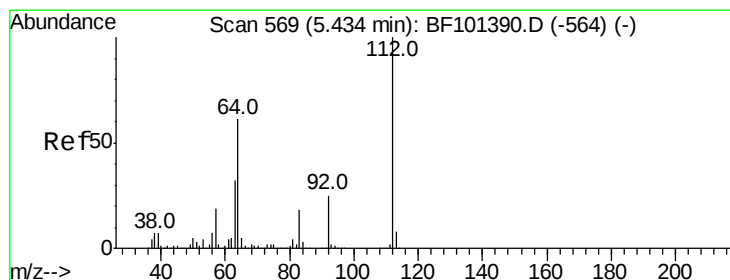
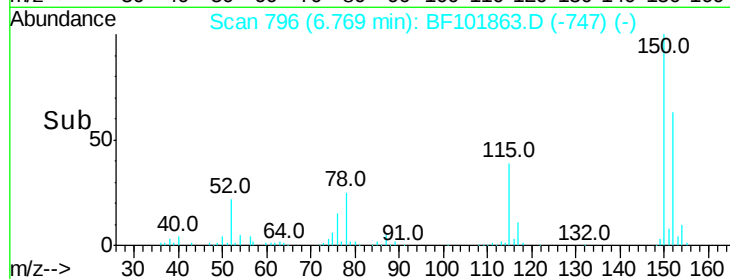
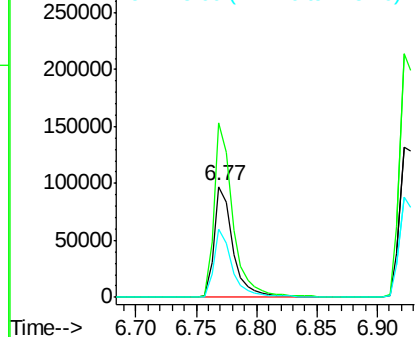
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 796  
Delta R.T. -0.01 min  
Lab File: BF101863.D  
Acq: 3 Jan 2018 16:44

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 104525  
Ion Ratio Lower Upper  
152 100  
150 158.0 124.6 186.8  
115 62.1 50.1 75.1



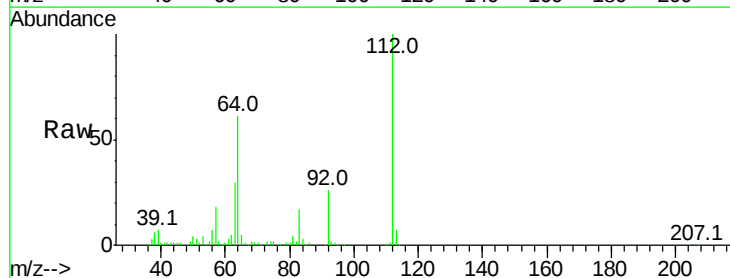
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



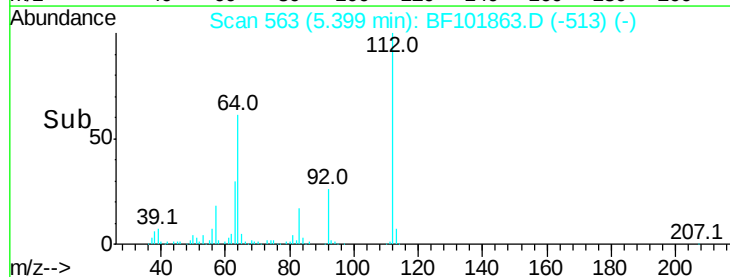
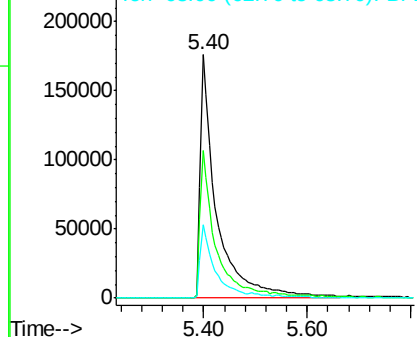
#5

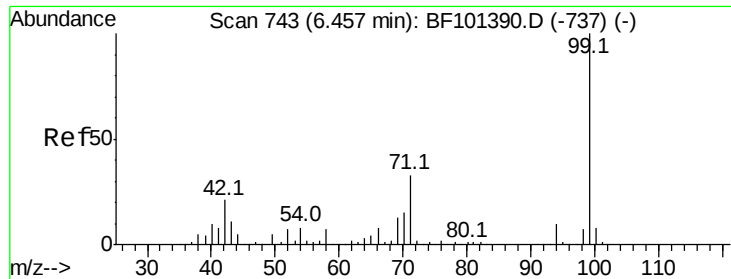
2-Fluorophenol  
Concen: 54.571 ng  
RT: 5.40 min Scan# 563  
Delta R.T. -0.01 min  
Lab File: BF101863.D  
Acq: 3 Jan 2018 16:44

Tgt Ion:112 Resp: 382929  
Ion Ratio Lower Upper  
112 100  
64 60.8 47.9 71.9  
63 30.0 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: 49.618 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Instrument :

BNA\_F

ClientSampled :

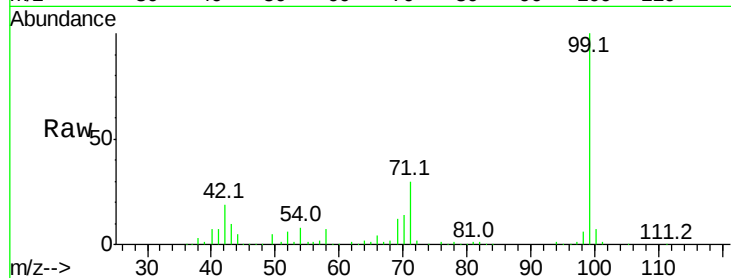
Tot Ion: 99 Resp: 433315

Ion Ratio Lower Upper

99 100

42 18.7 14.5 21.7

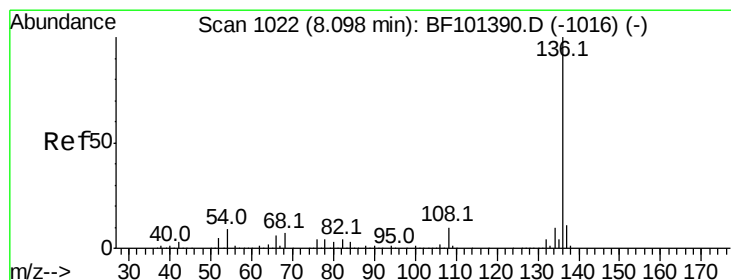
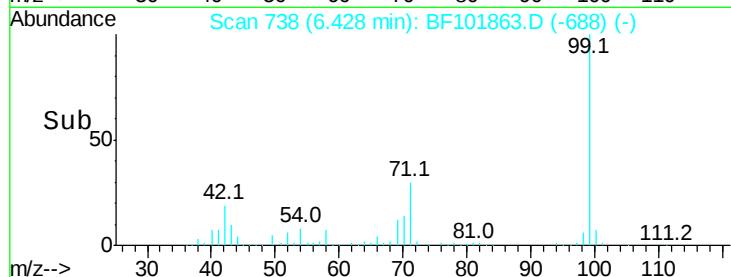
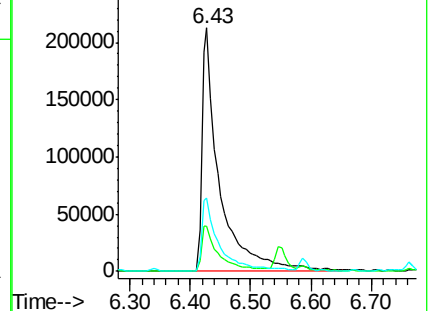
71 30.0 25.4 38.0



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: 8.05 min Scan# 1014

Delta R.T. -0.02 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Tgt Ion: 136 Resp: 353887

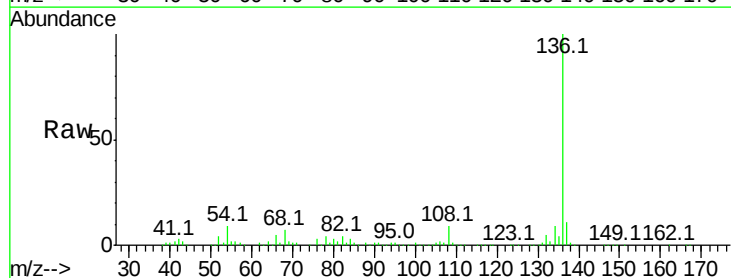
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 9.5 6.6 9.8

68 7.3 5.0 7.4

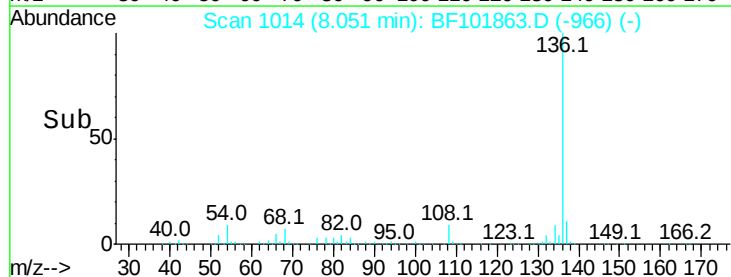
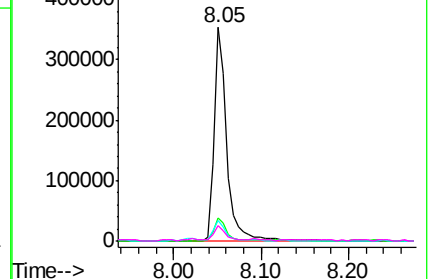


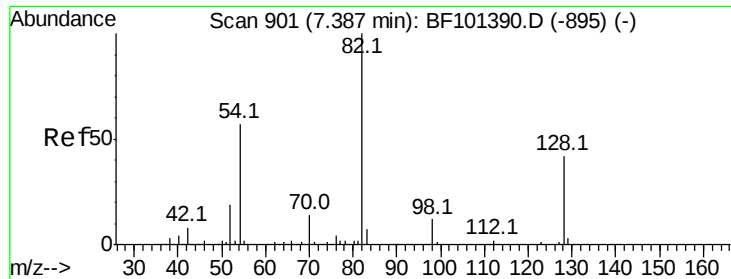
Abundance Ion 136.00 (135.70 to 136.70): E

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

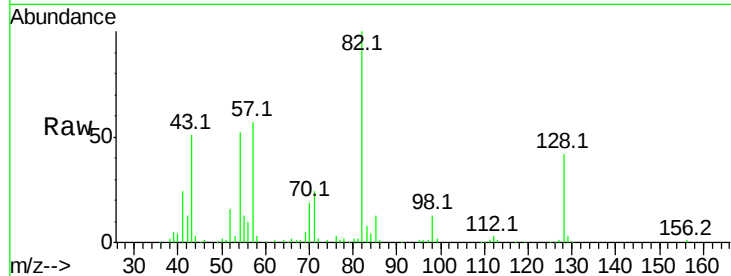




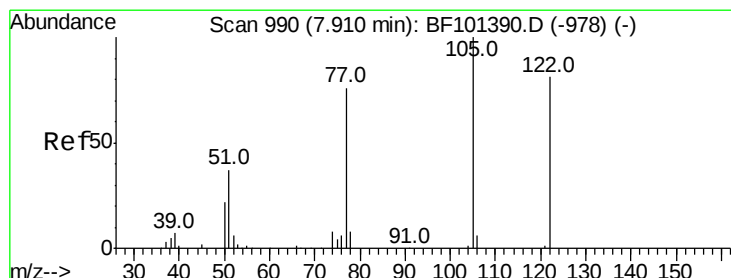
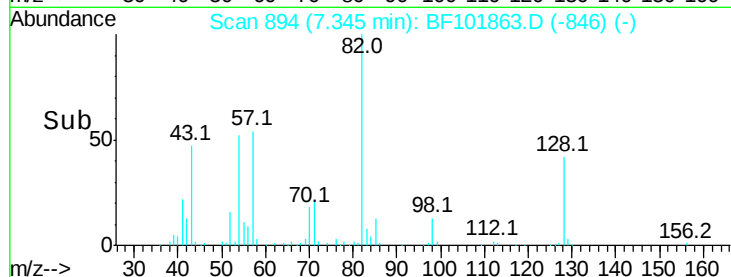
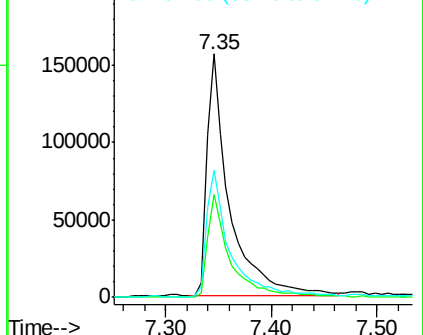
#23  
Nitrobenzene-d5  
Concen: 36.799 ng  
RT: 7.35 min Scan# 894  
Delta R.T. -0.02 min  
Lab File: BF101863.D  
Acq: 3 Jan 2018 16:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 233945  
Ion Ratio Lower Upper  
82 100  
128 42.0 36.1 54.1  
54 52.1 41.4 62.2

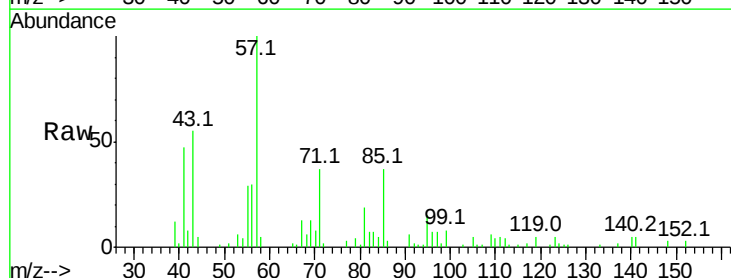


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

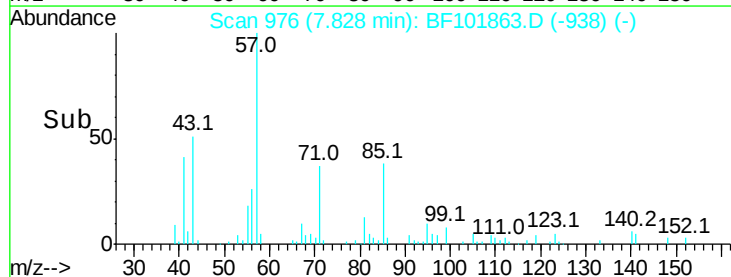
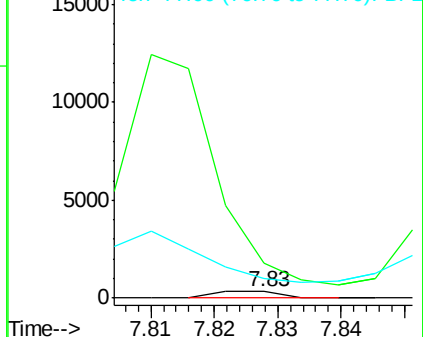


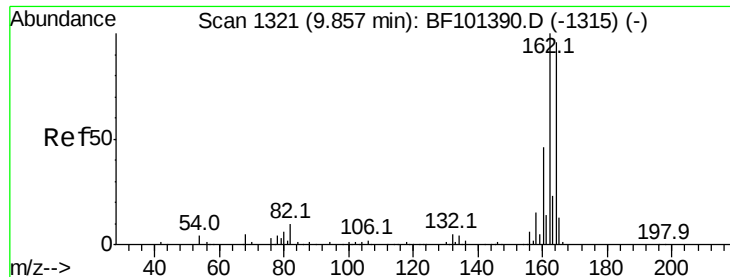
#32  
Benzoic acid  
Concen: 8.016 ng  
RT: 7.83 min Scan# 976  
Delta R.T. -0.08 min  
Lab File: BF101863.D  
Acq: 3 Jan 2018 16:44

Tgt Ion:122 Resp: 228  
Ion Ratio Lower Upper  
122 100  
105 541.0 101.1 141.1#  
77 315.9 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 77.00 (76.70 to 77.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.80 min Scan# 1312

Delta R.T. -0.02 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Instrument :

BNA\_F

ClientSampleId :

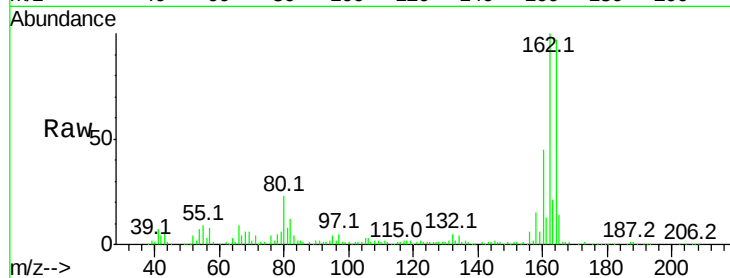
Tot Ion:164 Resp: 136583

Ion Ratio Lower Upper

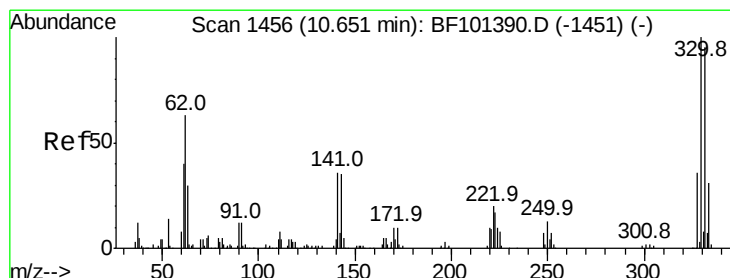
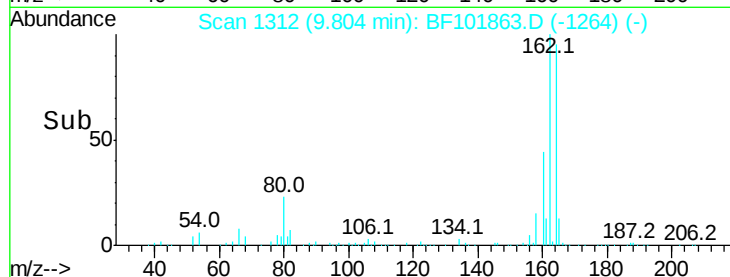
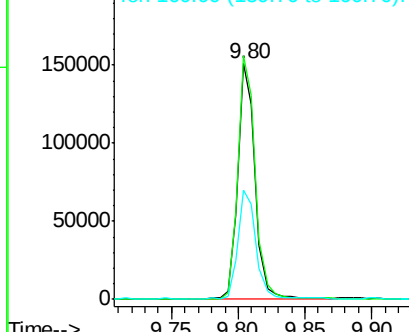
164 100

162 103.2 86.1 129.1

160 46.1 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: 54.746 ng

RT: 10.61 min Scan# 1449

Delta R.T. -0.01 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

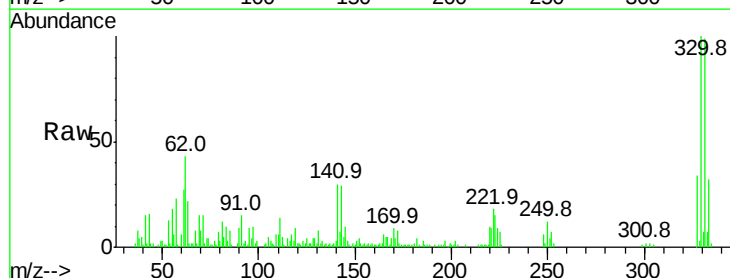
Tgt Ion:330 Resp: 72050

Ion Ratio Lower Upper

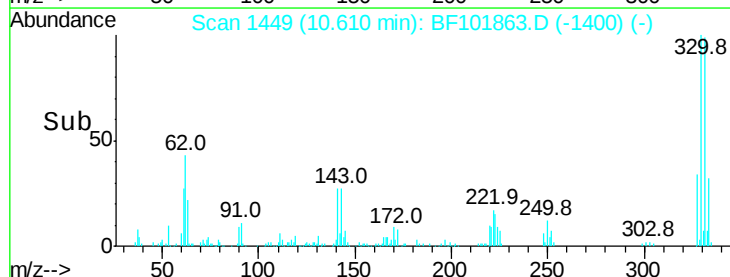
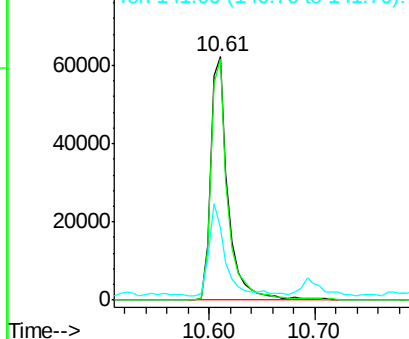
330 100

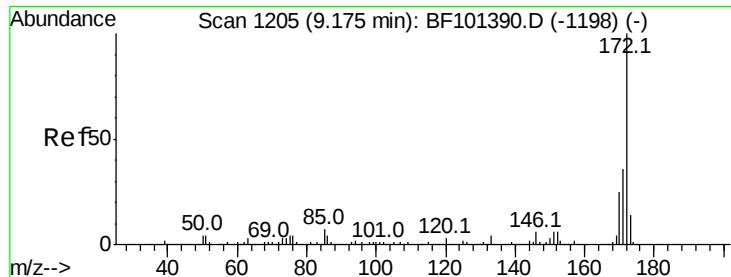
332 96.4 77.0 115.6

141 34.9 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

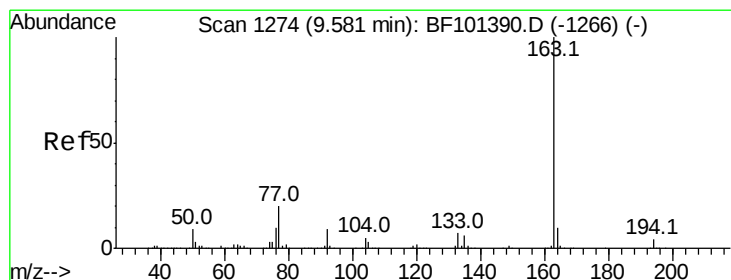
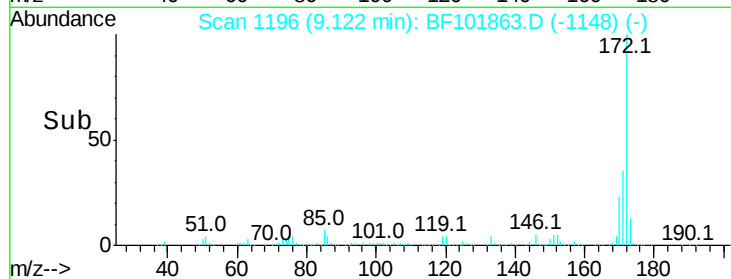
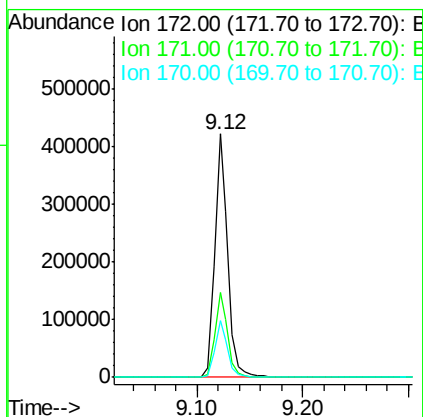
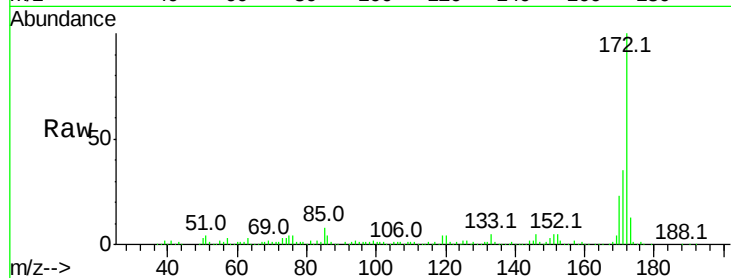




#44  
2-Fluorobiphenyl  
Concen: 41.618 ng  
RT: 9.12 min Scan# 1196  
Delta R.T. -0.02 min  
Lab File: BF101863.D  
Acq: 3 Jan 2018 16:44

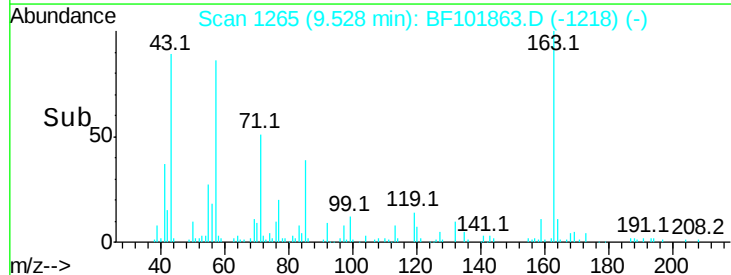
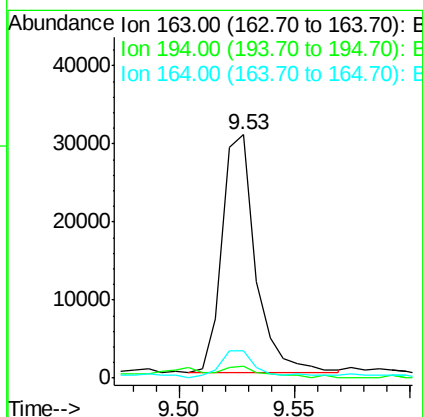
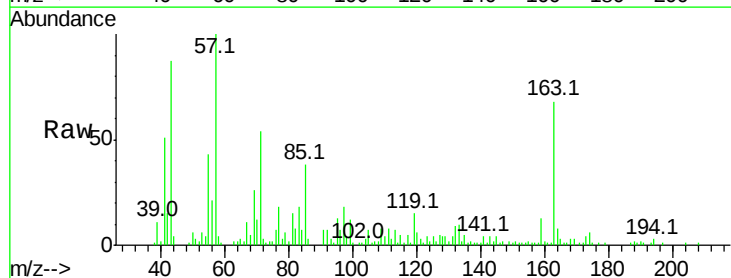
Instrument :  
BNA\_F  
ClientSampled :

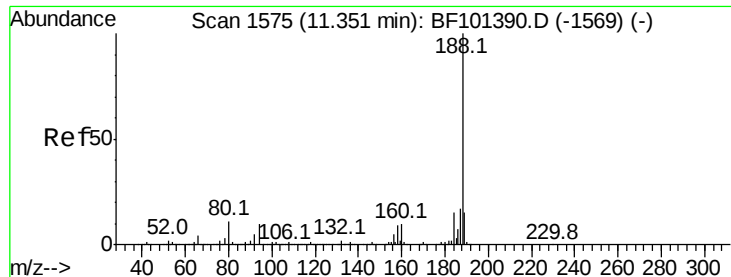
Tot Ion:172 Resp: 366440  
Ion Ratio Lower Upper  
172 100  
171 35.0 29.7 44.5  
170 23.4 19.6 29.4



#49  
Dimethylphthalate  
Concen: 2.779 ng  
RT: 9.53 min Scan# 1265  
Delta R.T. -0.02 min  
Lab File: BF101863.D  
Acq: 3 Jan 2018 16:44

Tgt Ion:163 Resp: 30527  
Ion Ratio Lower Upper  
163 100  
194 4.8 2.7 4.1#  
164 11.1 8.2 12.2





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.30 min Scan# 1566

Delta R.T. -0.02 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Instrument :

BNA\_F

ClientSampleId :

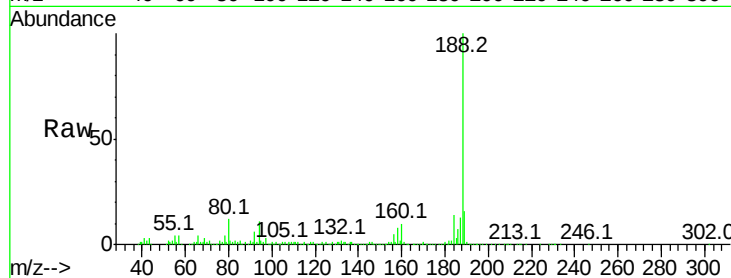
Tot Ion:188 Resp: 273348

Ion Ratio Lower Upper

188 100

94 10.9 8.5 12.7

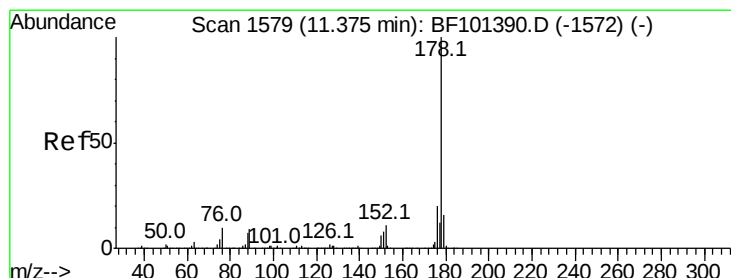
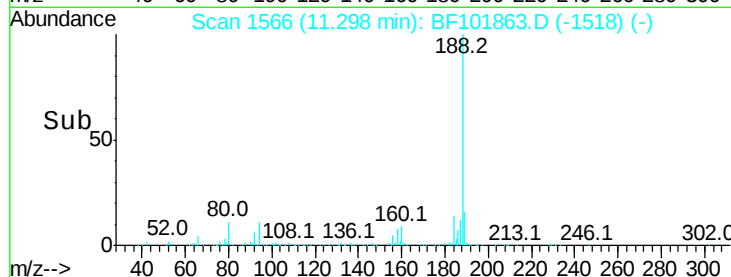
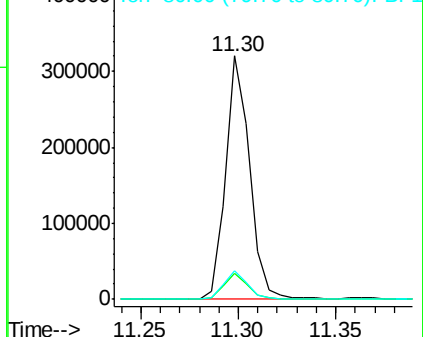
80 11.7 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#70

Phenanthrene

Concen: 4.186 ng

RT: 11.33 min Scan# 1571

Delta R.T. -0.01 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

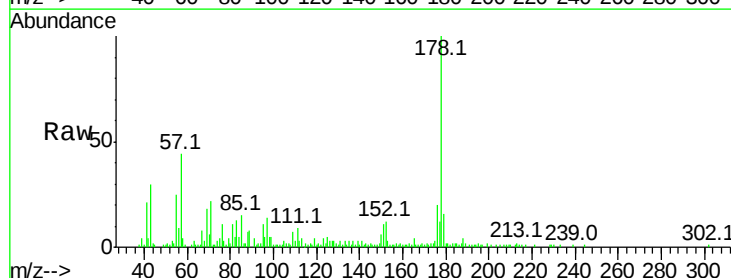
Tgt Ion:178 Resp: 63630

Ion Ratio Lower Upper

178 100

176 19.9 15.8 23.8

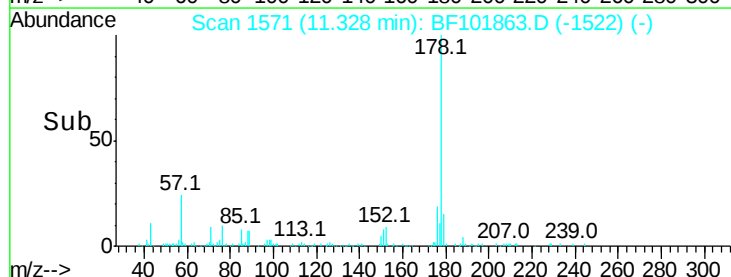
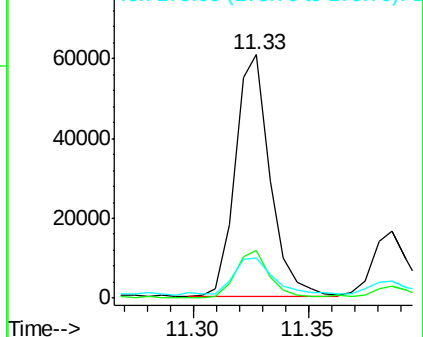
179 16.3 13.0 19.6

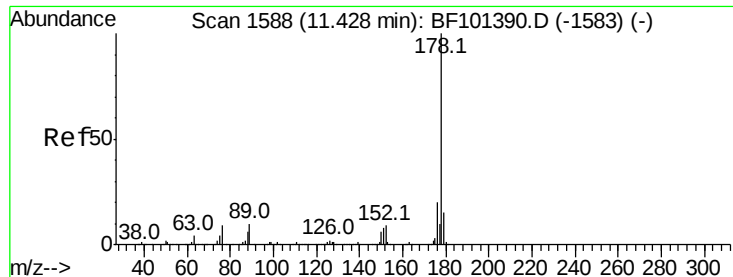


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

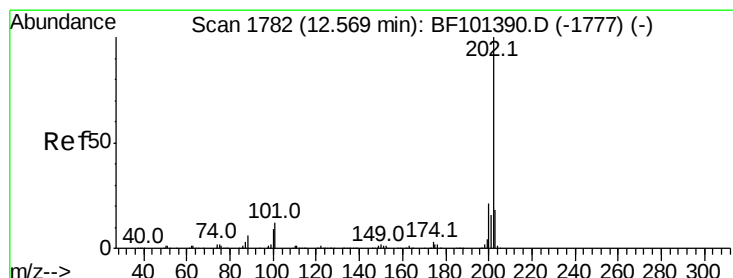
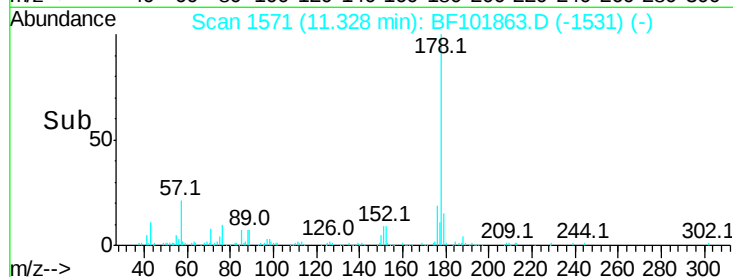
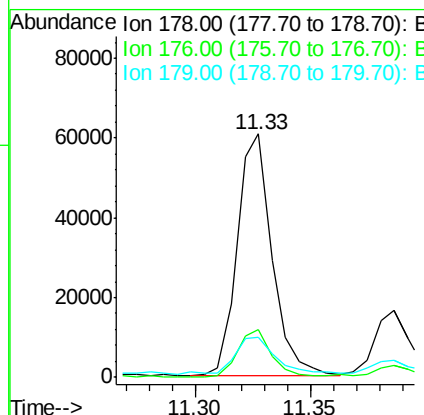
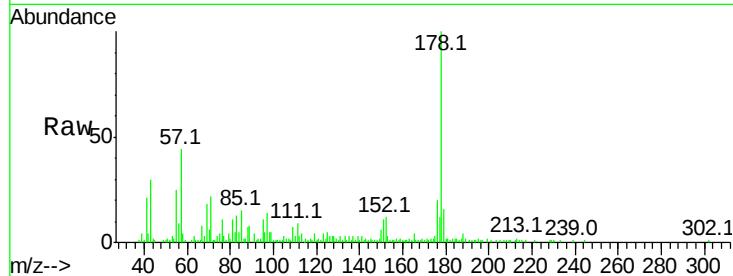




#71  
 Anthracene  
 Concen: 4.098 ng  
 RT: 11.33 min Scan# 1571  
 Delta R.T. -0.06 min  
 Lab File: BF101863.D  
 Acq: 3 Jan 2018 16:44

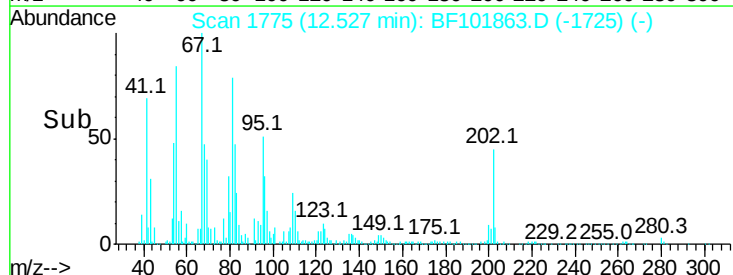
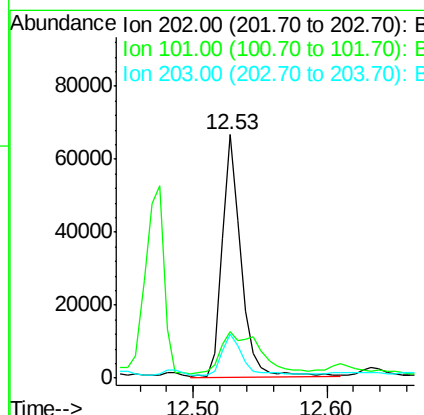
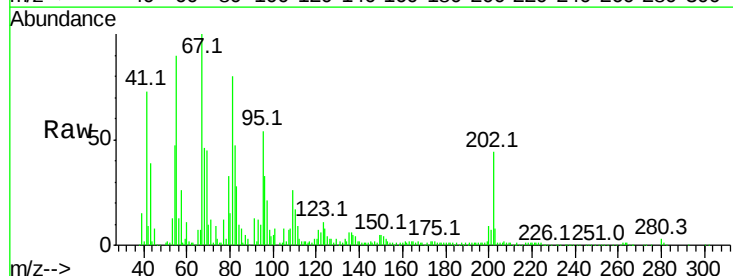
Instrument :  
 BNA\_F  
 ClientSampleId :

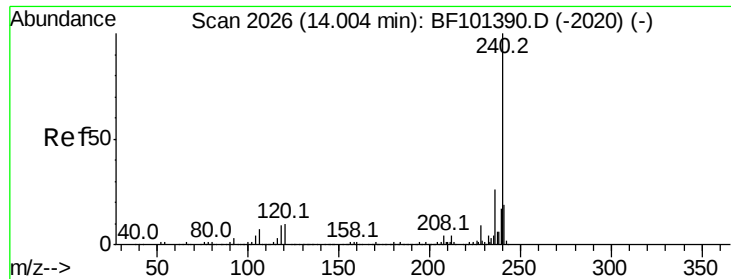
Tot Ion:178 Resp: 63630  
 Ion Ratio Lower Upper  
 178 100  
 176 19.9 15.4 23.2  
 179 16.3 12.6 19.0



#74  
 Fluoranthene  
 Concen: 4.180 ng  
 RT: 12.53 min Scan# 1775  
 Delta R.T. -0.01 min  
 Lab File: BF101863.D  
 Acq: 3 Jan 2018 16:44

Tgt Ion:202 Resp: 66701  
 Ion Ratio Lower Upper  
 202 100  
 101 19.0 0.0 34.1  
 203 18.1 0.0 38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.02 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Instrument :

BNA\_F

ClientSampleId :

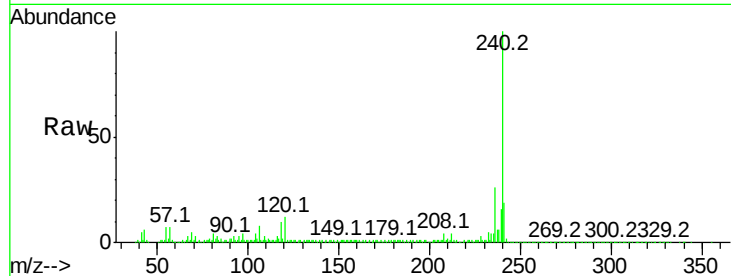
Tot Ion:240 Resp: 280237

Ion Ratio Lower Upper

240 100

120 11.8 9.5 14.3

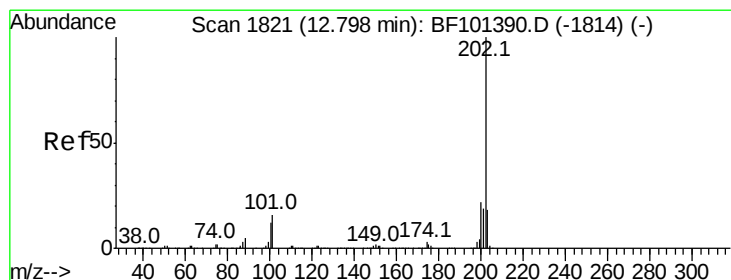
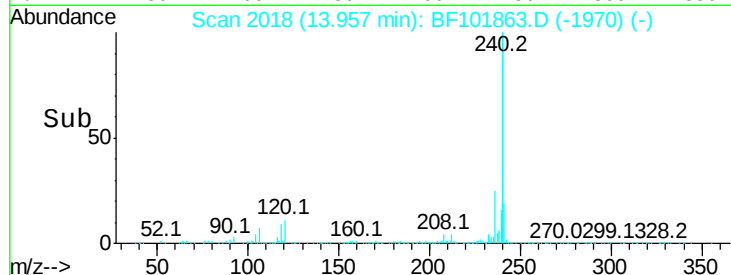
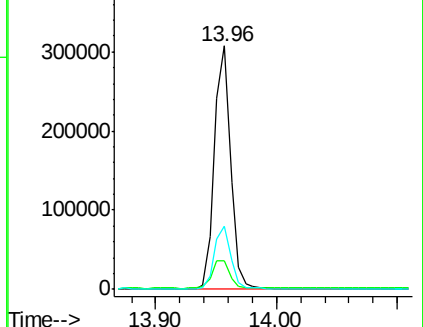
236 25.8 20.7 31.1



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



#77

Pyrene

Concen: 3.702 ng

RT: 12.76 min Scan# 1815

Delta R.T. -0.01 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

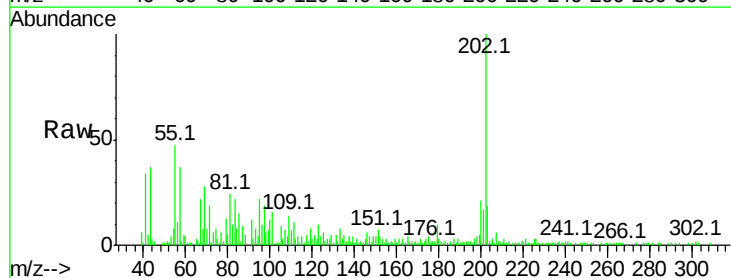
Tgt Ion:202 Resp: 77857

Ion Ratio Lower Upper

202 100

200 20.9 17.4 26.2

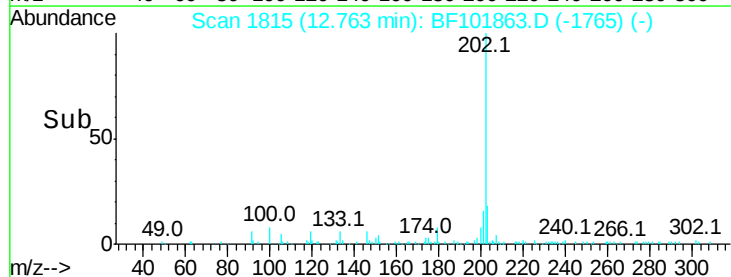
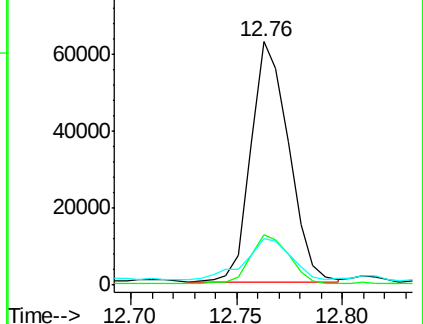
203 19.2 14.3 21.5

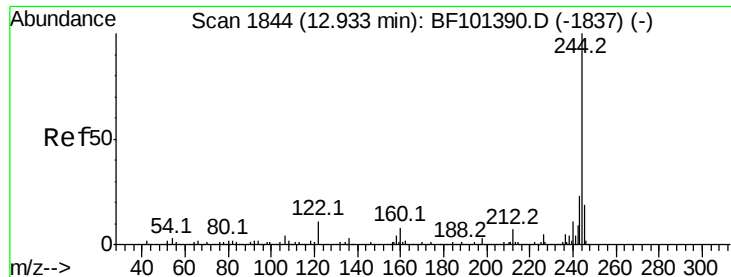


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 34.422 ng

RT: 12.89 min Scan# 1836

Delta R.T. -0.01 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Instrument :

BNA\_F

ClientSampleId :

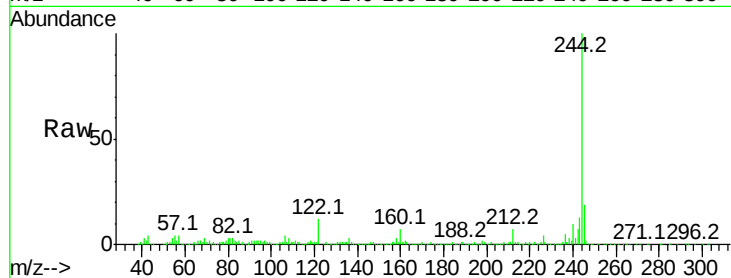
Tot Ion:244 Resp: 400135

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

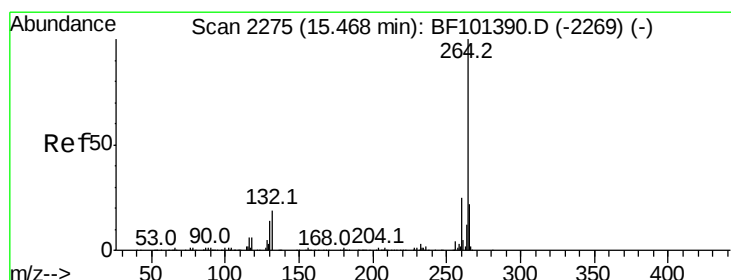
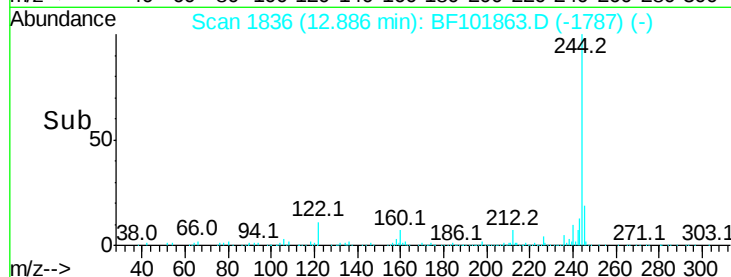
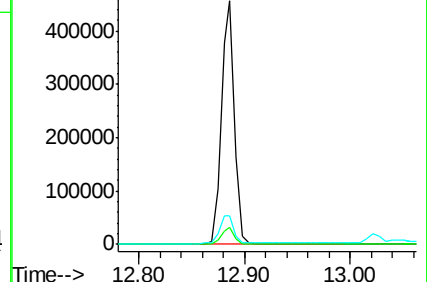
122 11.5 11.0 16.4



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: 15.42 min Scan# 2267

Delta R.T. -0.02 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

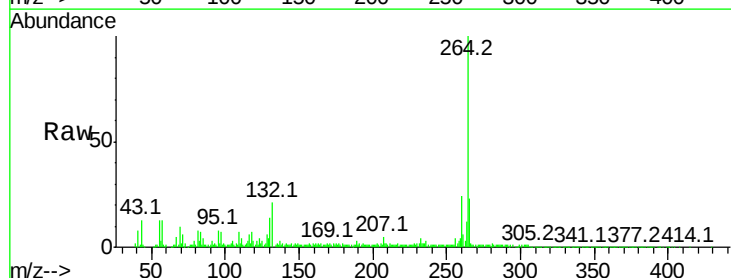
Tgt Ion:264 Resp: 209762

Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

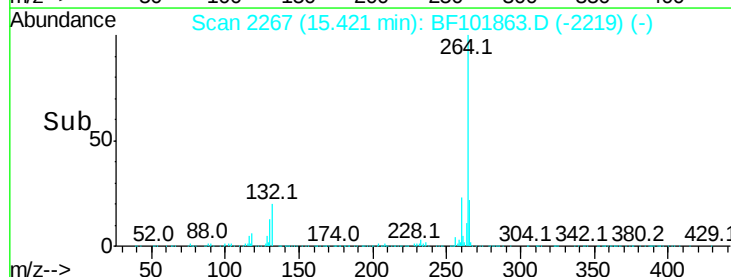
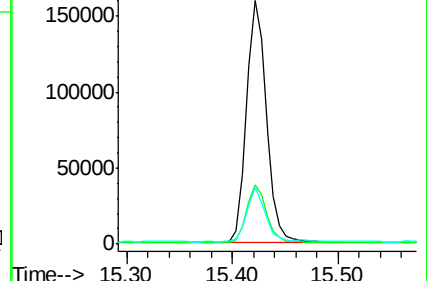
265 23.1 17.5 26.3

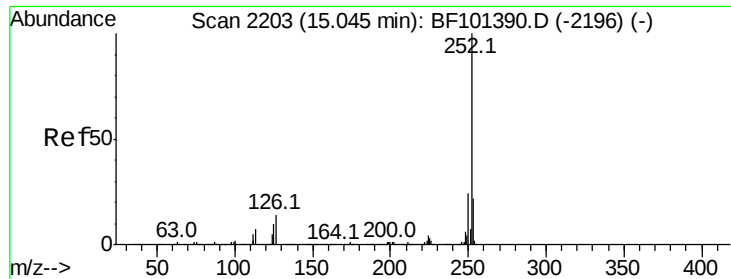


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 3.272 ng

RT: 15.00 min Scan# 2196

Delta R.T. -0.01 min

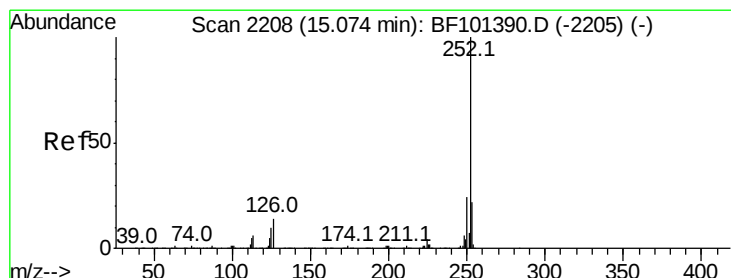
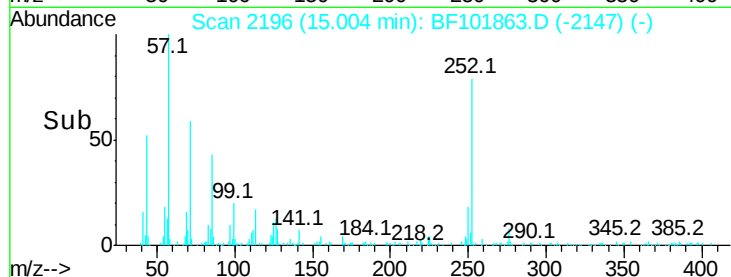
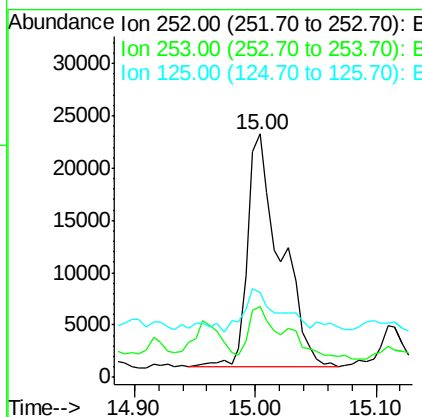
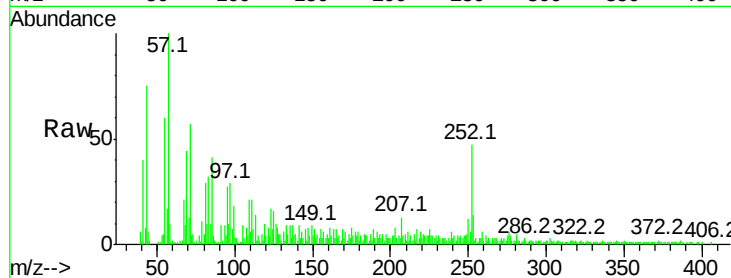
Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:252 Resp: 41833

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 29.3  | 17.0  | 25.6# |
| 125 | 35.1  | 9.0   | 13.6# |



#88

Benzo(k)fluoranthene

Concen: 3.365 ng

RT: 15.00 min Scan# 2196

Delta R.T. -0.04 min

Lab File: BF101863.D

Acq: 3 Jan 2018 16:44

Tgt Ion:252 Resp: 41833

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 29.3  | 17.9  | 26.9# |
| 125 | 35.1  | 10.2  | 15.2# |

