

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF111618\  
 Data File : BF110837.D  
 Acq On : 17 Nov 2018 1:32  
 Operator : JU/SJ  
 Sample : J5970-01 2X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 17 03:44:35 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF110818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 13 12:43:10 2018  
 Response via : Initial Calibration

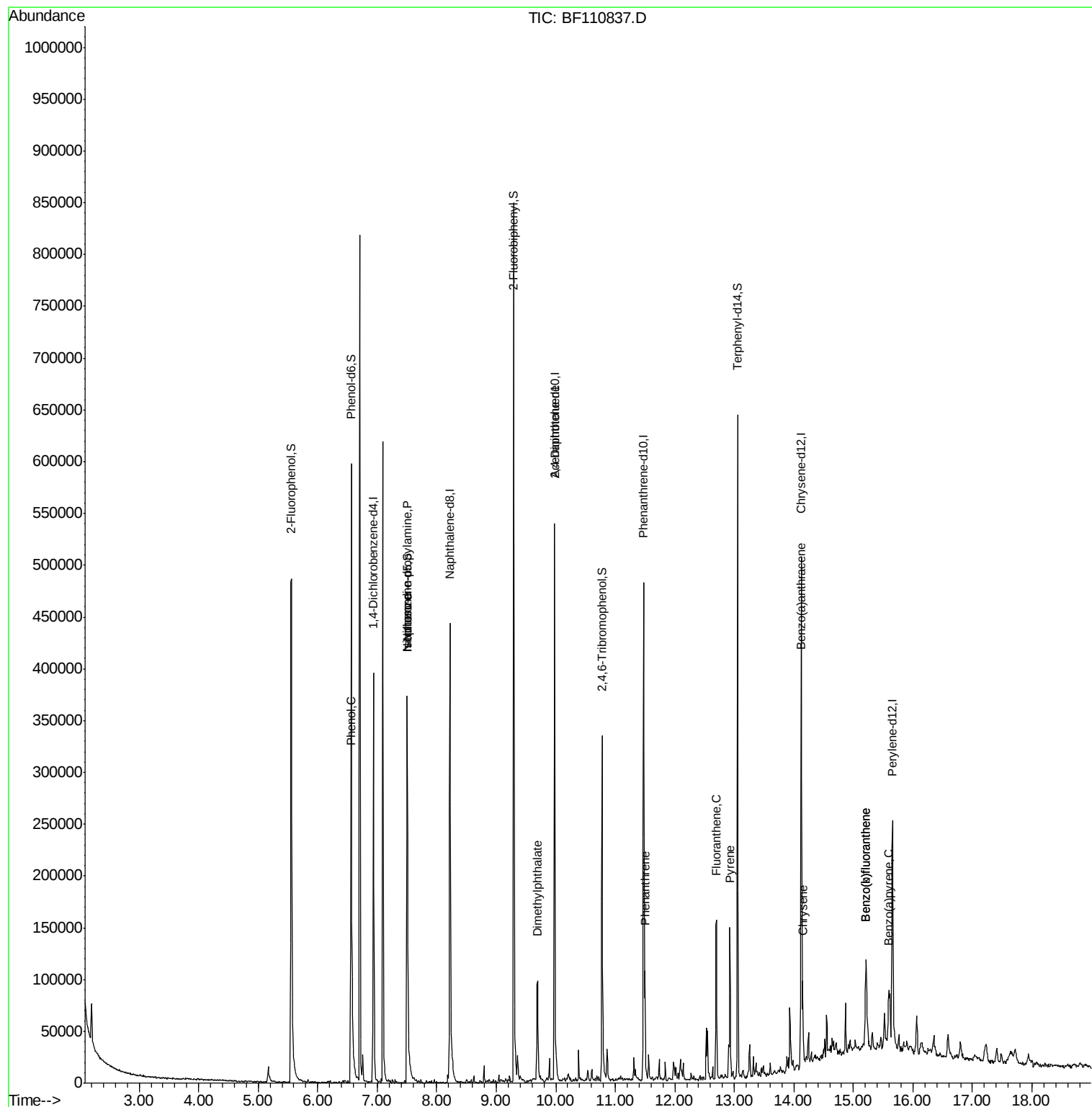
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.94  | 152  | 61047    | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.22  | 136  | 253262   | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.98  | 164  | 112177   | 20.00     | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.47 | 188  | 181703   | 20.00     | ng    | -0.01    |
| 76) Chrysene-d12               | 14.13 | 240  | 147996   | 20.00     | ng    | -0.01    |
| 87) Perylene-d12               | 15.66 | 264  | 109300   | 20.00     | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.56  | 112  | 185585   | 49.38     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.56  | 99   | 247339   | 51.46     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.50  | 82   | 154463   | 35.12     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.77 | 330  | 45336    | 40.11     | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.29  | 172  | 293050   | 37.31     | ng    | -0.01    |
| 79) Terphenyl-d14              | 13.06 | 244  | 213282   | 26.99     | ng    | -0.01    |
| Target Compounds               |       |      |          |           |       |          |
| 9) Benzaldehyde                | 6.56  | 77   | 234      | Below Cal |       | Qvalue   |
| 10) Phenol                     | 6.57  | 94   | 13012    | 2.335 ng  | #     | 1        |
| 19) n-Nitroso-di-n-propylamine | 7.50  | 70   | 20267    | 6.606 ng  | #     | 82       |
| 25) Isophorone                 | 7.50  | 82   | 154462   | 21.430 ng | #     | 67       |
| 50) Dimethylphthalate          | 9.69  | 163  | 56220    | 6.717 ng  |       | 99       |
| 57) 2,4-Dinitrotoluene         | 9.98  | 165  | 14278    | 5.964 ng  | #     | 17       |
| 71) Phenanthrene               | 11.50 | 178  | 40769    | 4.188 ng  |       | 97       |
| 75) Fluoranthene               | 12.70 | 202  | 71193    | 7.295 ng  |       | 96       |
| 78) Pyrene                     | 12.93 | 202  | 62944    | 5.524 ng  |       | 98       |
| 81) Benzo(a)anthracene         | 14.12 | 228  | 35895    | 4.058 ng  |       | 97       |
| 83) Chrysene                   | 14.15 | 228  | 30979    | 3.676 ng  |       | 96       |
| 88) Benzo(b)fluoranthene       | 15.20 | 252  | 46372    | 7.092 ng  | #     | 94       |
| 89) Benzo(k)fluoranthene       | 15.20 | 252  | 46372    | 7.177 ng  | #     | 93       |
| 90) Benzo(a)pyrene             | 15.59 | 252  | 23603    | 3.973 ng  |       | 97       |

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

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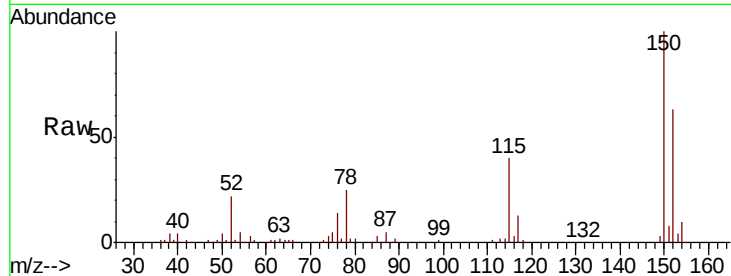




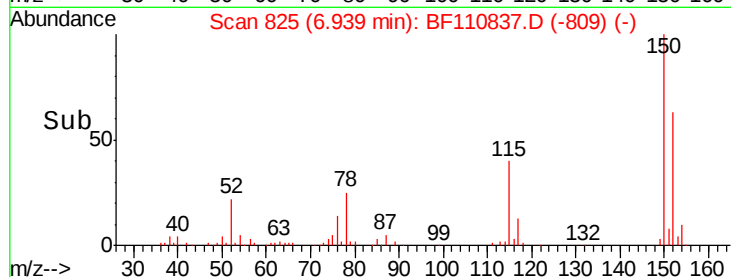
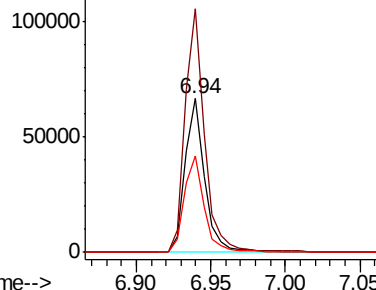
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.94 min Scan# 825  
 Delta R.T. -0.01 min  
 Lab File: BF110837.D  
 Acq: 17 Nov 2018 1:32

Instrument :  
 BNA\_F  
 ClientSampleId :

Tgt Ion:152 Resp: 61047  
 Ion Ratio Lower Upper  
 152 100  
 150 158.5 122.7 184.1  
 115 63.1 49.1 73.7

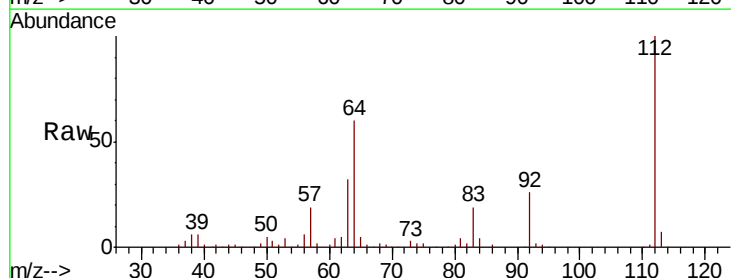


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

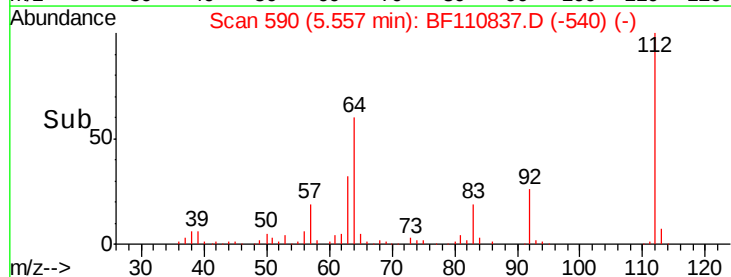
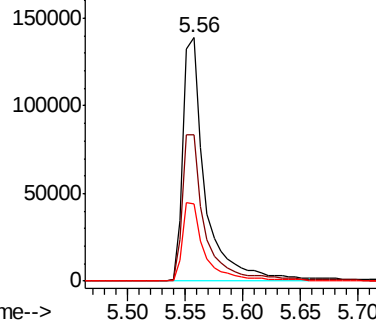


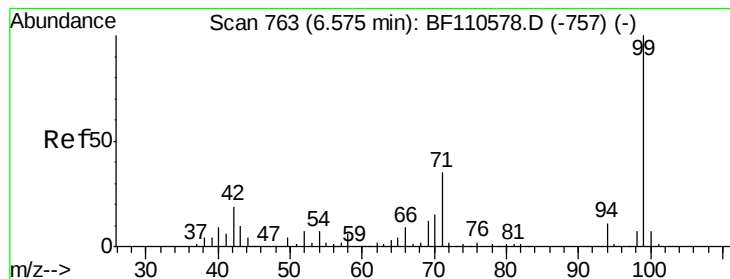
#5  
 2-Fluorophenol  
 Concen: 49.380 ng  
 RT: 5.56 min Scan# 590  
 Delta R.T. -0.01 min  
 Lab File: BF110837.D  
 Acq: 17 Nov 2018 1:32

Tgt Ion:112 Resp: 185585  
 Ion Ratio Lower Upper  
 112 100  
 64 60.3 44.1 66.1  
 63 31.6 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: 51.465 ng

RT: 6.56 min Scan# 761

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

Instrument :

BNA\_F

ClientSampled :

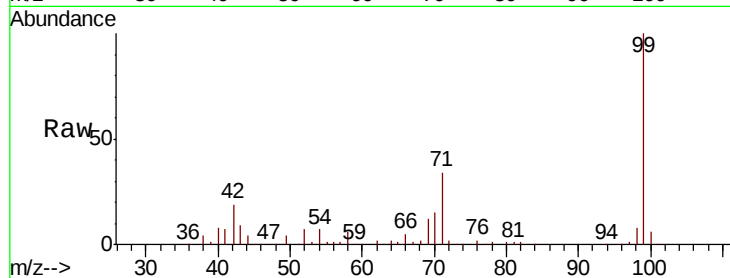
Tgt Ion: 99 Resp: 247339

Ion Ratio Lower Upper

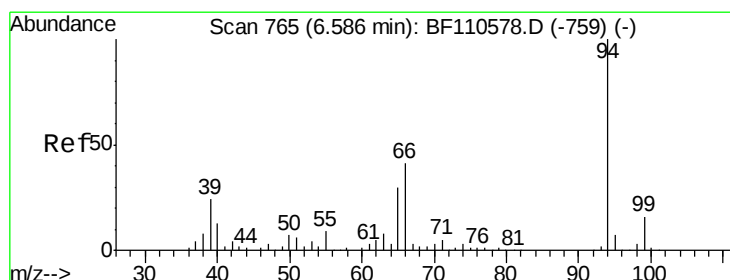
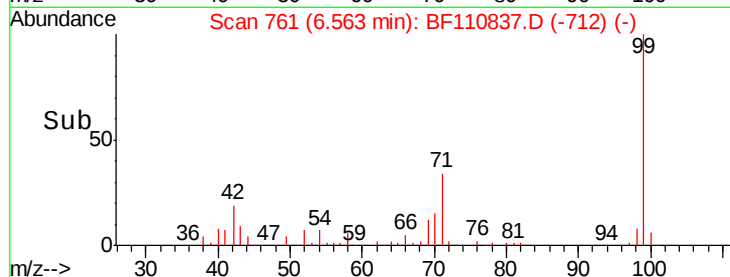
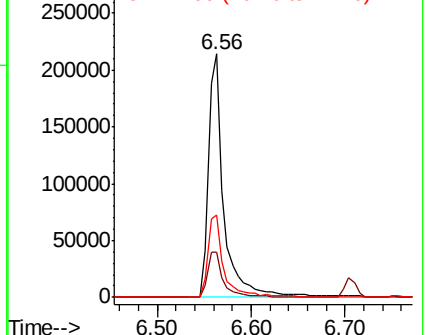
99 100

42 18.6 15.8 23.6

71 34.0 28.0 42.0



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



#10

Phenol

Concen: 2.335 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

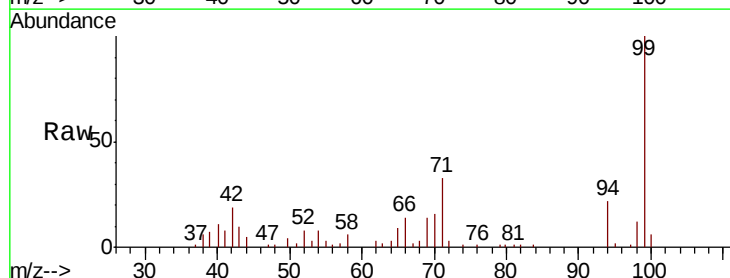
Tgt Ion: 94 Resp: 13012

Ion Ratio Lower Upper

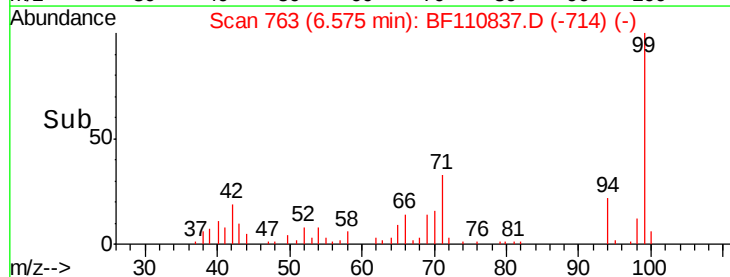
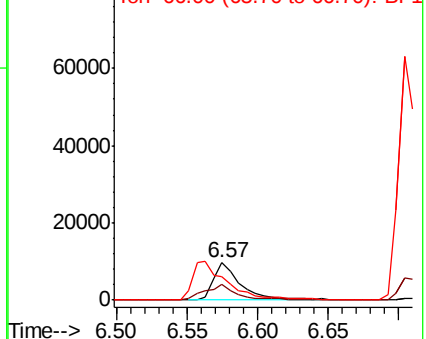
94 100

65 41.3 25.3 65.3

66 62.6 54.5 94.5



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1

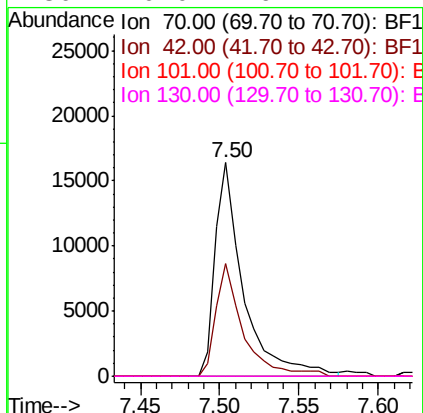
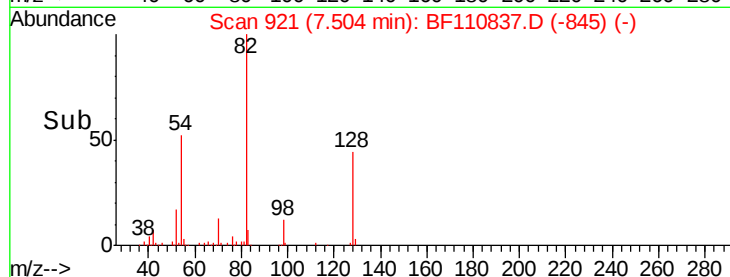
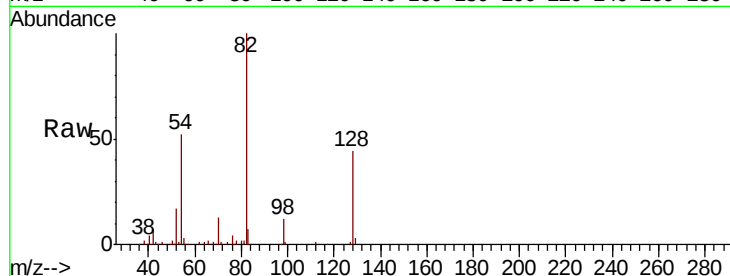




#19  
n-Nitroso-di-n-propylamine  
Concen: 6.606 ng  
RT: 7.50 min Scan# 921  
Delta R.T. 0.15 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

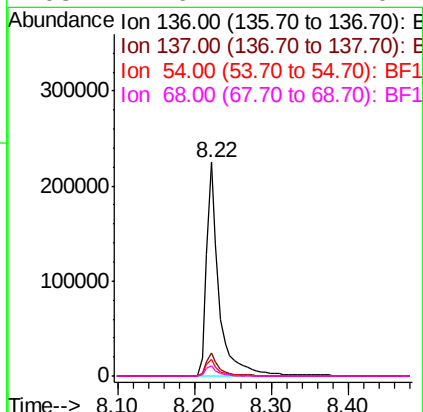
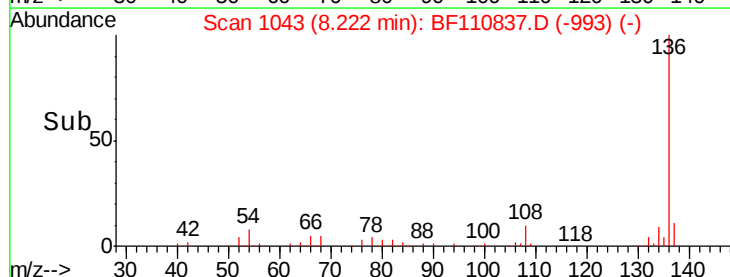
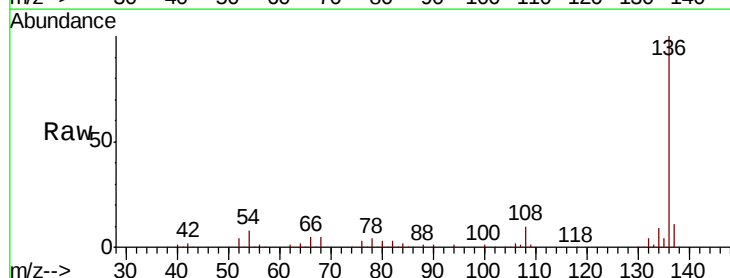
Instrument :  
BNA\_F  
ClientSampleId :

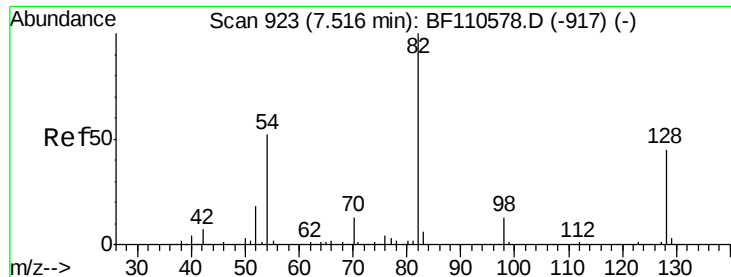
Tgt Ion: 70 Resp: 20267  
Ion Ratio Lower Upper  
70 100  
42 53.0 47.4 71.2  
101 0.0 7.3 10.9#  
130 0.0 16.2 24.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.22 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

Tgt Ion: 136 Resp: 253262  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.8 13.2  
54 7.6 5.4 8.2  
68 4.6 4.2 6.2

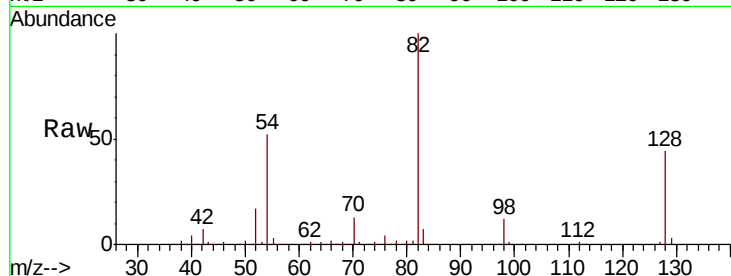




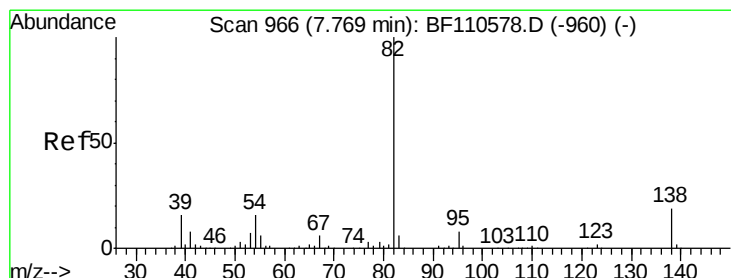
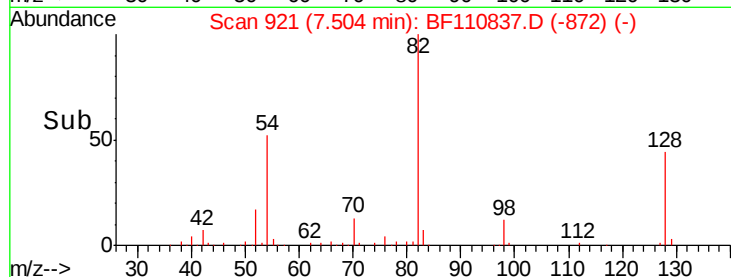
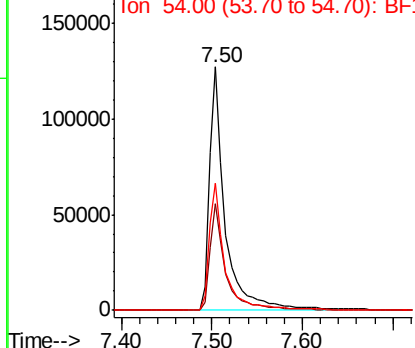
#23  
Nitrobenzene-d5  
Concen: 35.124 ng  
RT: 7.50 min Scan# 921  
Delta R.T. -0.01 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

Instrument :  
BNA\_F  
ClientSampleId :

Tgt Ion: 82 Resp: 154463  
Ion Ratio Lower Upper  
82 100  
128 43.7 34.2 51.2  
54 52.5 38.6 58.0

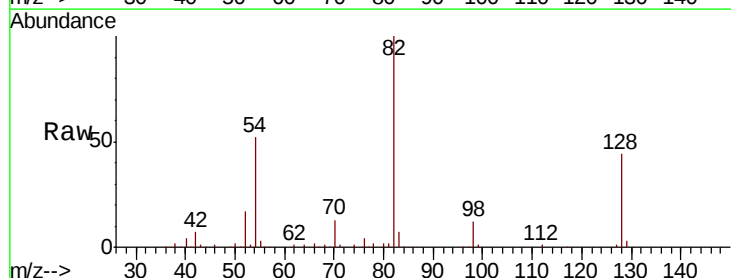


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

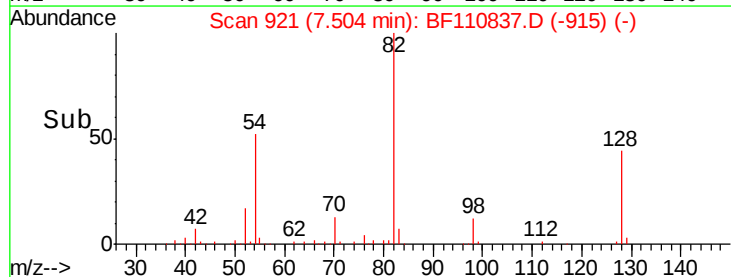
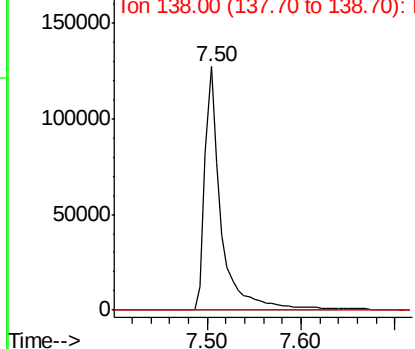


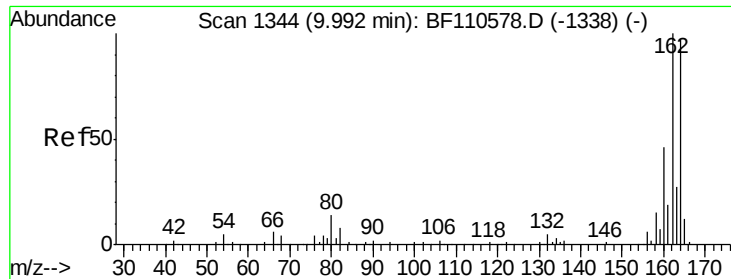
#25  
Isophorone  
Concen: 21.430 ng  
RT: 7.50 min Scan# 921  
Delta R.T. -0.26 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

Tgt Ion: 82 Resp: 154462  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.7 8.5#  
138 0.0 13.2 19.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.98 min Scan# 1342

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

Instrument :

BNA\_F

ClientSampleId :

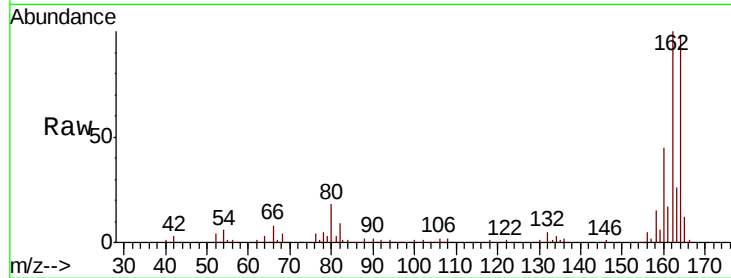
Tgt Ion:164 Resp: 112177

Ion Ratio Lower Upper

164 100

162 102.4 83.0 124.6

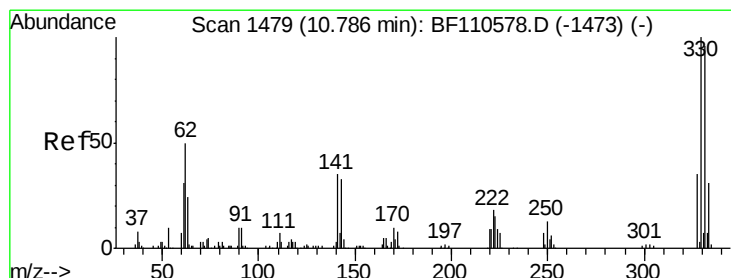
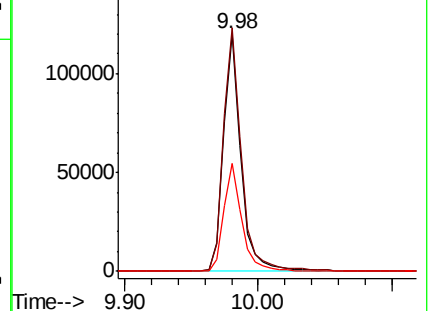
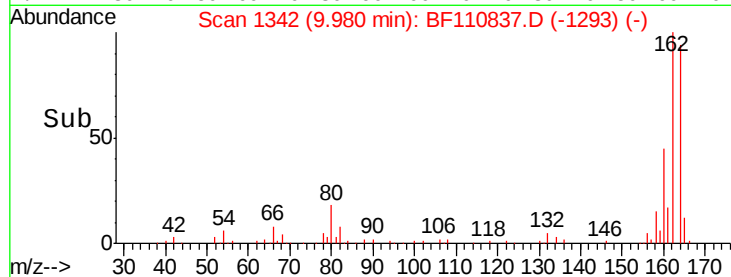
160 45.6 37.0 55.6



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



#42

2,4,6-Tribromophenol

Concen: 40.109 ng

RT: 10.77 min Scan# 1477

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

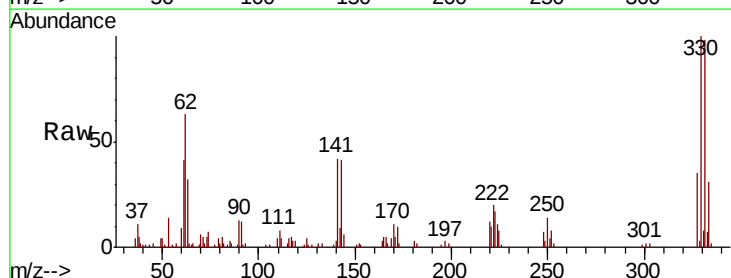
Tgt Ion:330 Resp: 45336

Ion Ratio Lower Upper

330 100

332 95.9 77.1 115.7

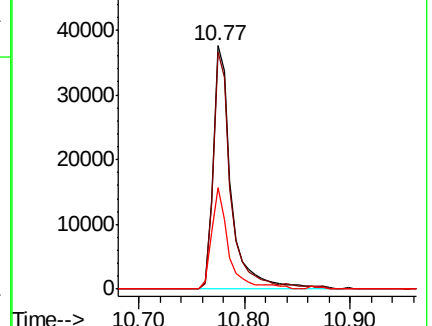
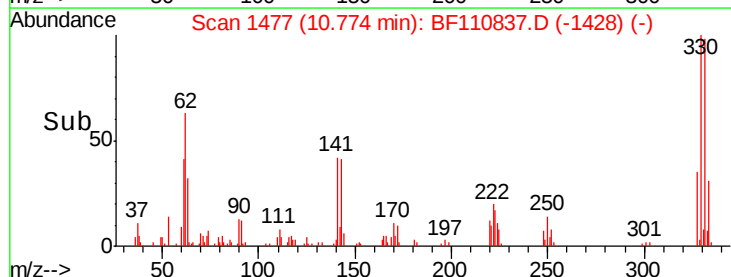
141 38.6 27.0 40.4

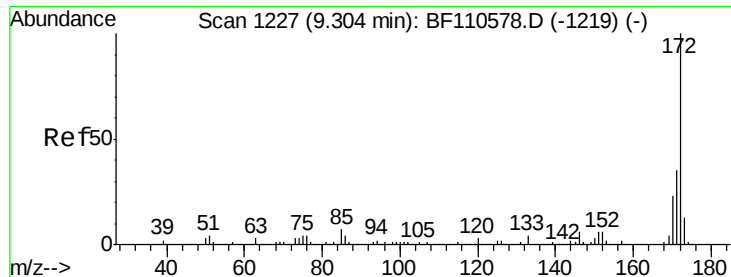


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

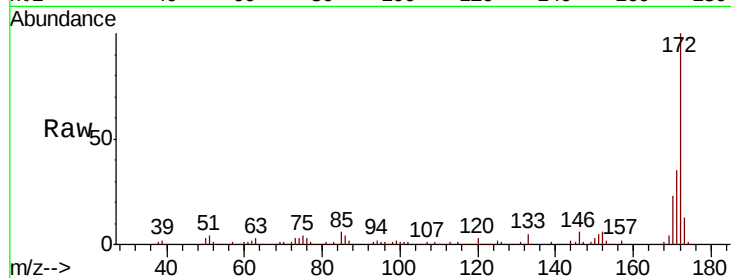




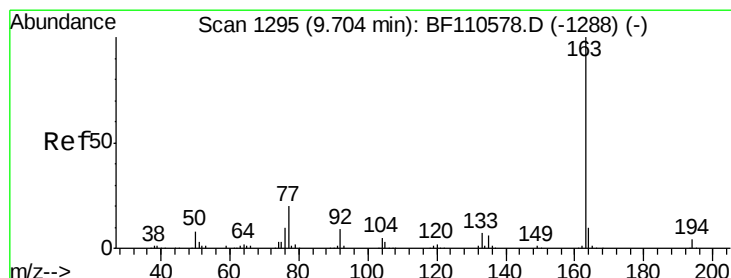
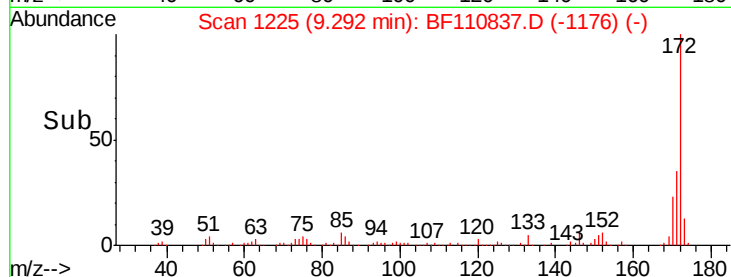
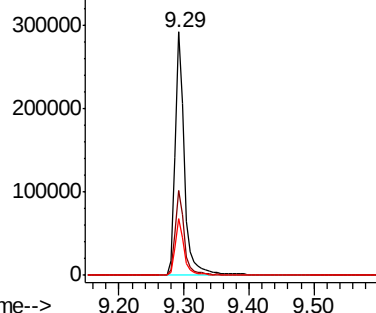
#45  
 2-Fluorobiphenyl  
 Concen: 37.310 ng  
 RT: 9.29 min Scan# 1225  
 Delta R.T. -0.01 min  
 Lab File: BF110837.D  
 Acq: 17 Nov 2018 1:32

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.6  | 28.6  | 43.0  |
| 170     | 23.4  | 19.7  | 29.5  |

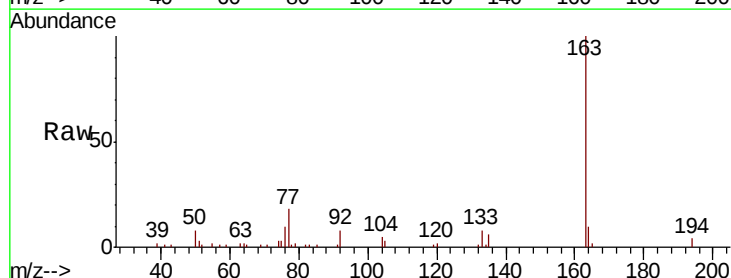


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

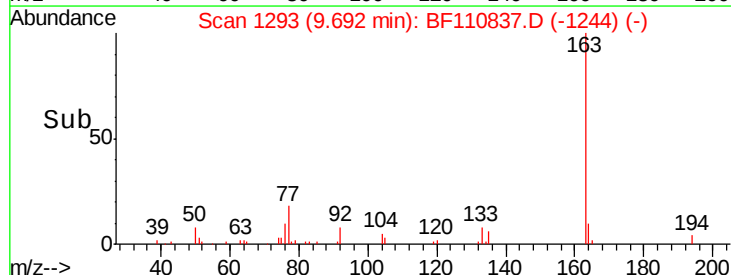
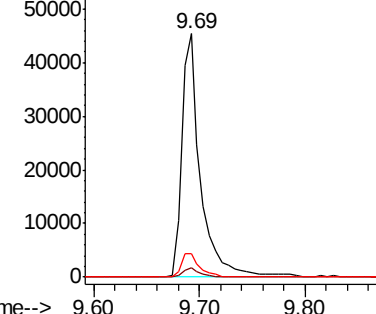


#50  
 Dimethylphthalate  
 Concen: 6.717 ng  
 RT: 9.69 min Scan# 1293  
 Delta R.T. -0.01 min  
 Lab File: BF110837.D  
 Acq: 17 Nov 2018 1:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.8   | 3.2   | 4.8   |
| 164     | 9.7   | 8.1   | 12.1  |



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

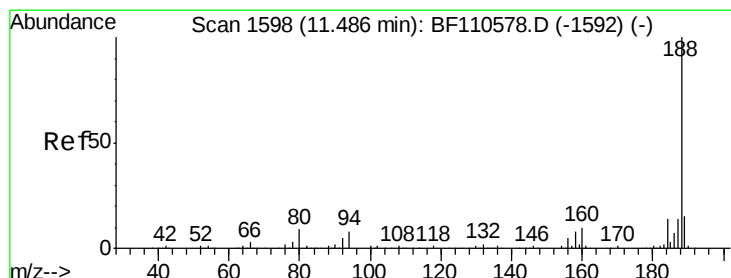
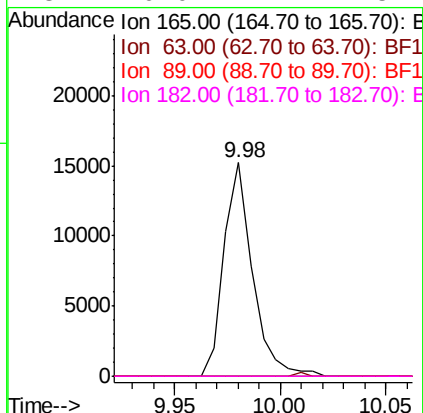
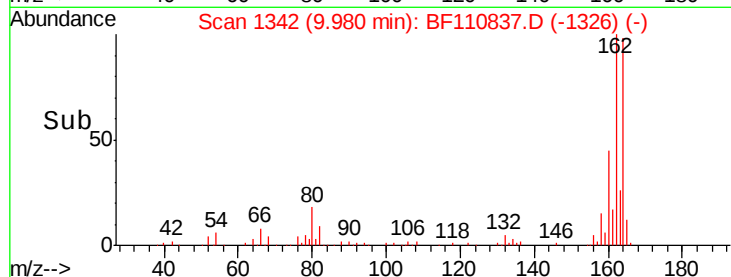
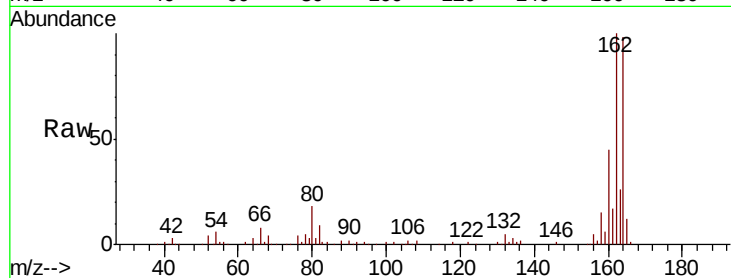




#57  
 2,4-Dinitrotoluene  
 Concen: 5.964 ng  
 RT: 9.98 min Scan# 1342  
 Delta R.T. -0.21 min  
 Lab File: BF110837.D  
 Acq: 17 Nov 2018 1:32

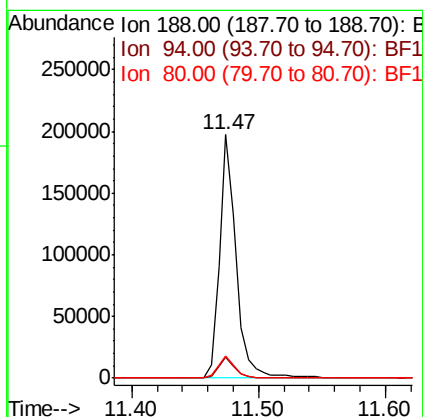
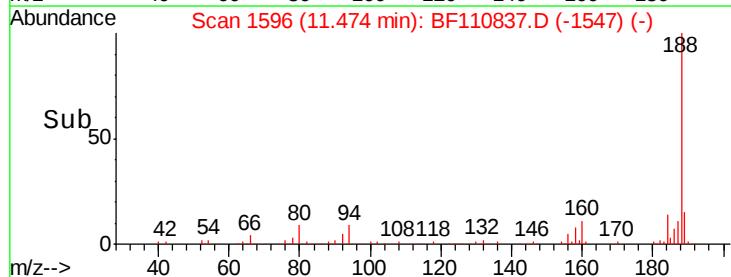
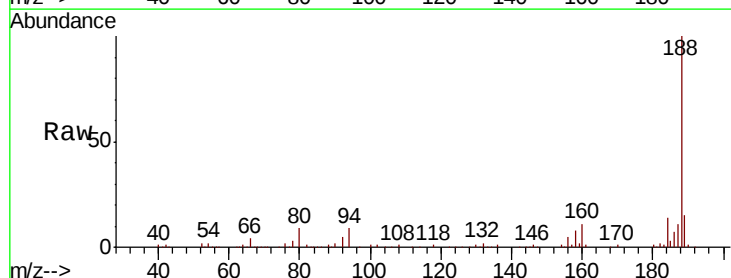
Instrument :  
 BNA\_F  
 ClientSampleId :

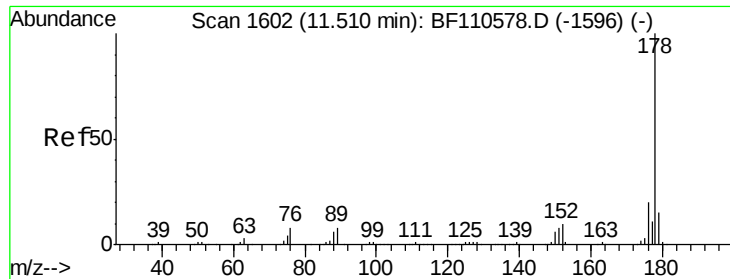
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.8  | 67.2# |
| 89      | 0.0   | 62.2  | 93.4# |
| 182     | 0.0   | 2.1   | 3.1#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.47 min Scan# 1596  
 Delta R.T. -0.01 min  
 Lab File: BF110837.D  
 Acq: 17 Nov 2018 1:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.6   | 7.2   | 10.8  |
| 80      | 9.3   | 7.9   | 11.9  |

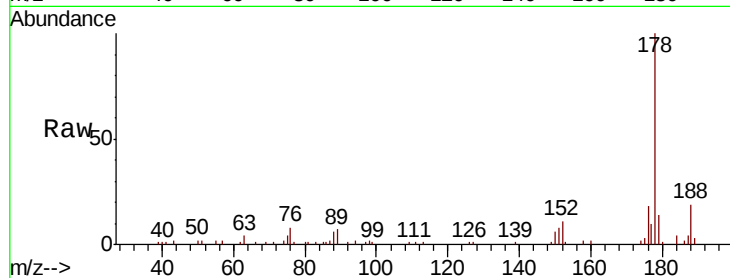




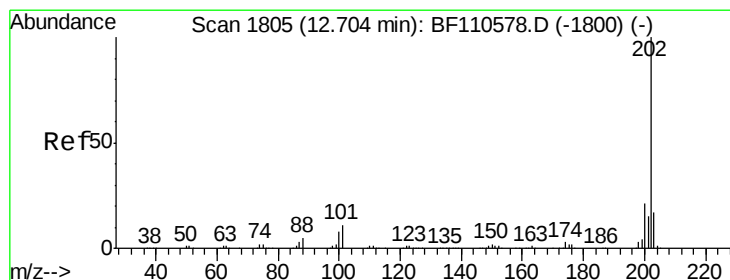
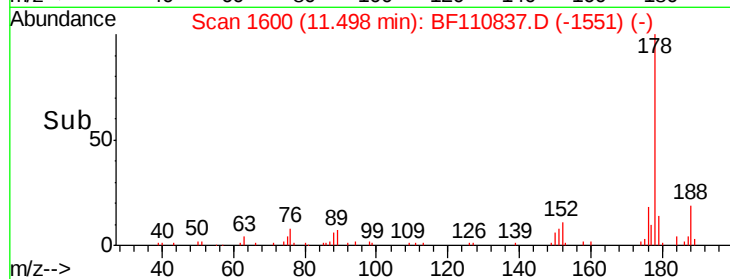
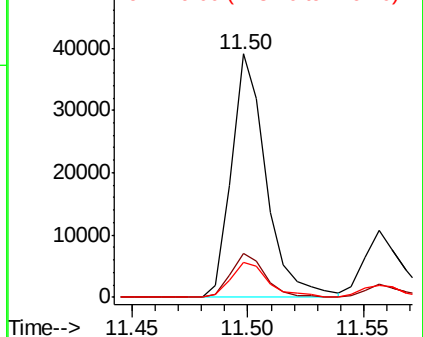
#71  
Phenanthrene  
Concen: 4.188 ng  
RT: 11.50 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

Instrument :  
BNA\_F  
ClientSampled :

Tgt Ion:178 Resp: 40769  
Ion Ratio Lower Upper  
178 100  
176 18.3 15.5 23.3  
179 14.5 12.5 18.7

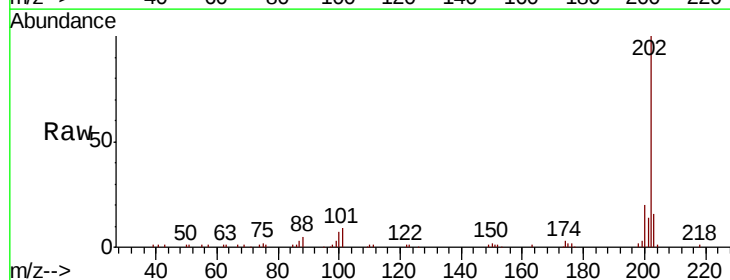


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

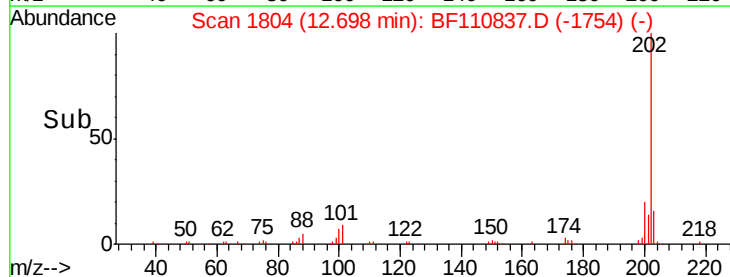
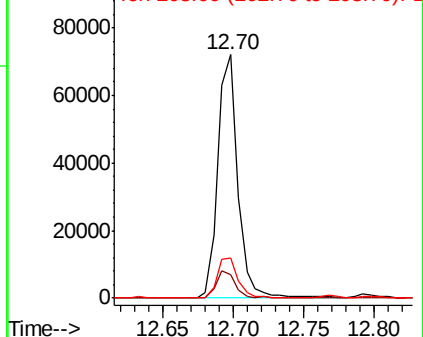


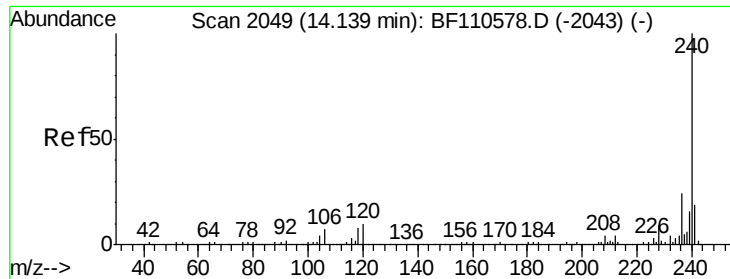
#75  
Fluoranthene  
Concen: 7.295 ng  
RT: 12.70 min Scan# 1804  
Delta R.T. -0.01 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

Tgt Ion:202 Resp: 71193  
Ion Ratio Lower Upper  
202 100  
101 9.5 0.0 31.4  
203 16.3 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E

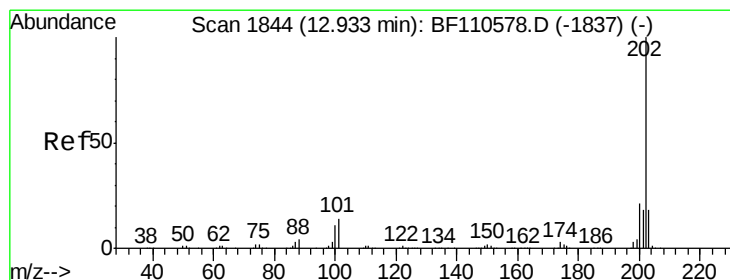
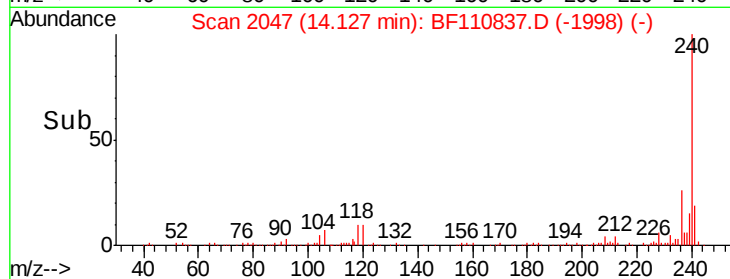
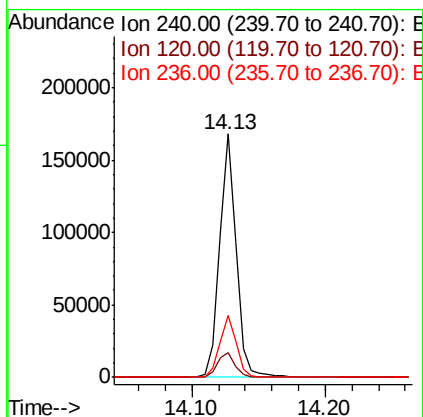
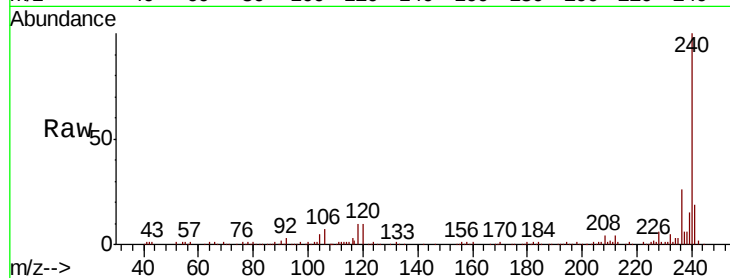




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.13 min Scan# 2047  
Delta R.T. -0.01 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

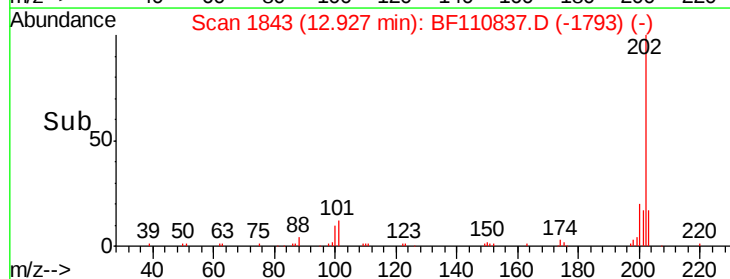
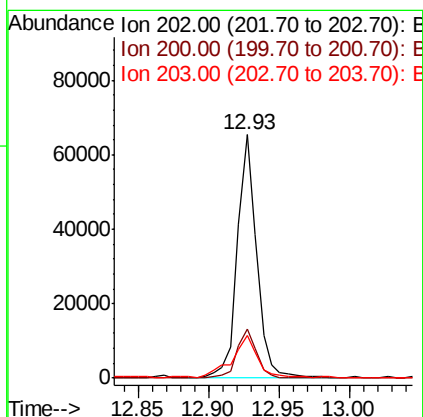
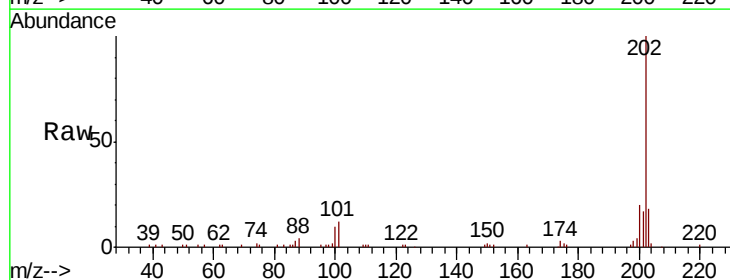
Instrument :  
BNA\_F  
ClientSampleId :

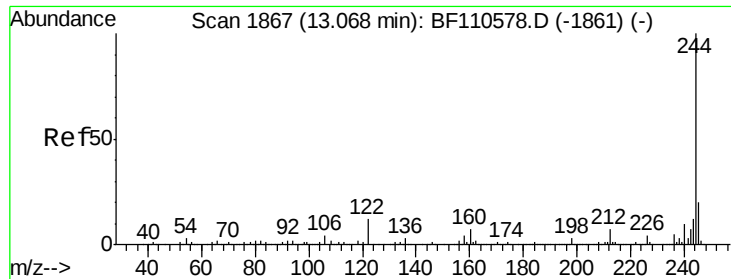
Tgt Ion:240 Resp: 147996  
Ion Ratio Lower Upper  
240 100  
120 10.4 8.3 12.5  
236 25.6 21.2 31.8



#78  
Pyrene  
Concen: 5.524 ng  
RT: 12.93 min Scan# 1843  
Delta R.T. -0.01 min  
Lab File: BF110837.D  
Acq: 17 Nov 2018 1:32

Tgt Ion:202 Resp: 62944  
Ion Ratio Lower Upper  
202 100  
200 20.4 17.8 26.6  
203 17.6 14.2 21.4





#79

Terphenyl-d14

Concen: 26.989 ng

RT: 13.06 min Scan# 1865

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

Instrument :

BNA\_F

ClientSampleId :

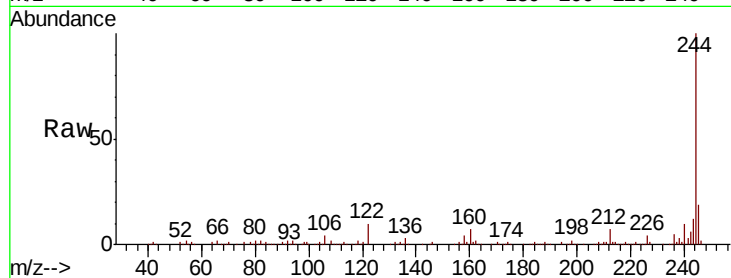
Tgt Ion:244 Resp: 213282

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

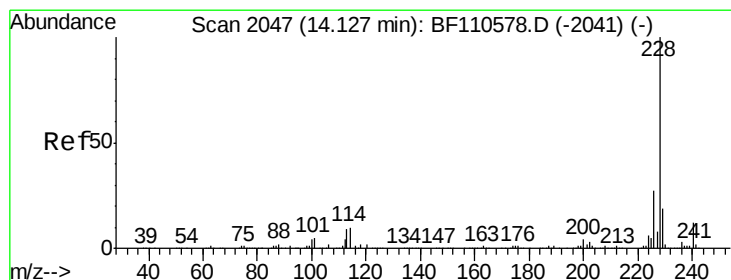
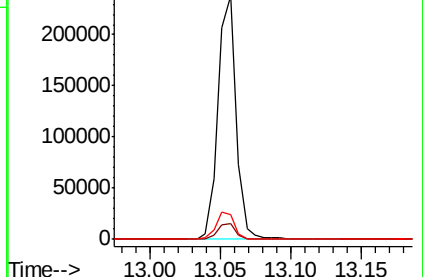
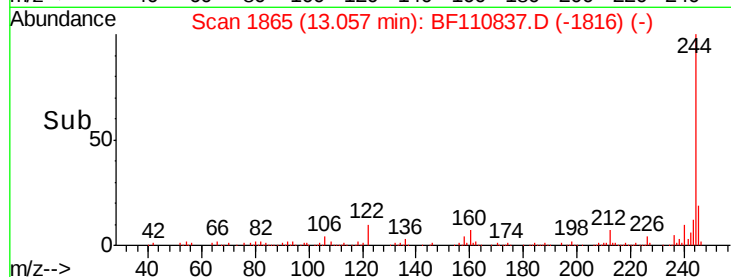
122 10.3 8.7 13.1



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



#81

Benzo(a)anthracene

Concen: 4.058 ng

RT: 14.12 min Scan# 2045

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

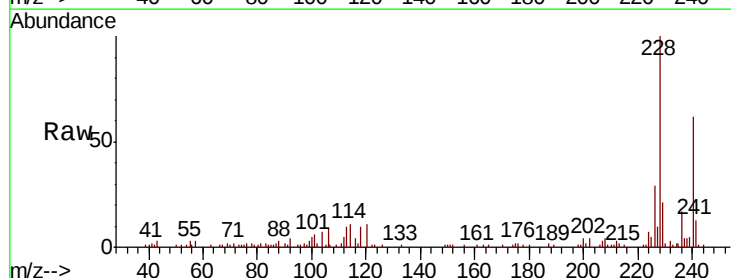
Tgt Ion:228 Resp: 35895

Ion Ratio Lower Upper

228 100

226 29.1 22.1 33.1

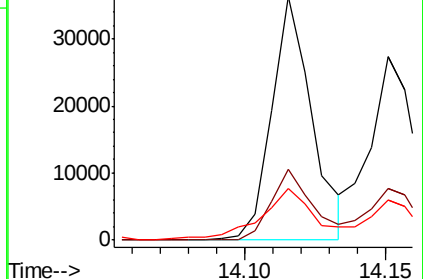
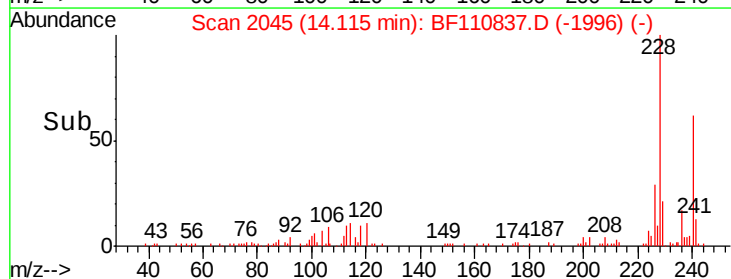
229 21.2 15.6 23.4

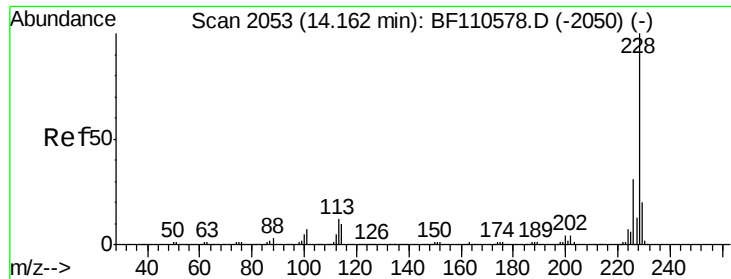


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 3.676 ng

RT: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

Instrument :

BNA\_F

ClientSampleId :

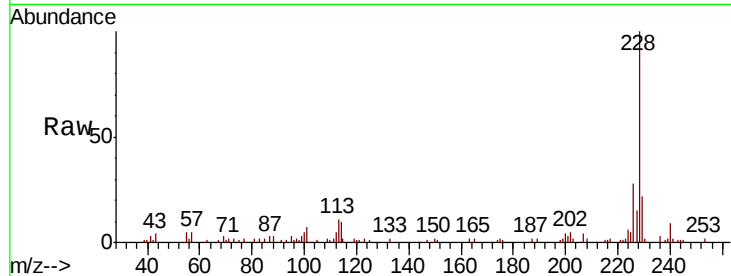
Tgt Ion:228 Resp: 30979

Ion Ratio Lower Upper

228 100

226 28.3 24.7 37.1

229 21.7 15.9 23.9

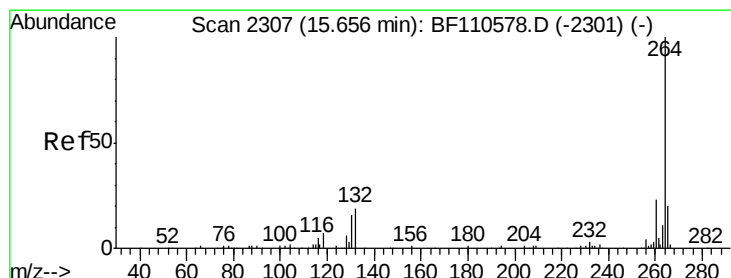
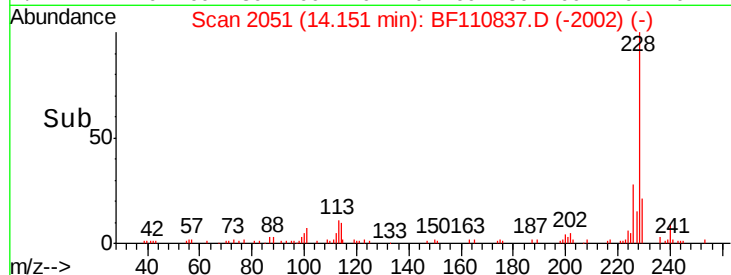
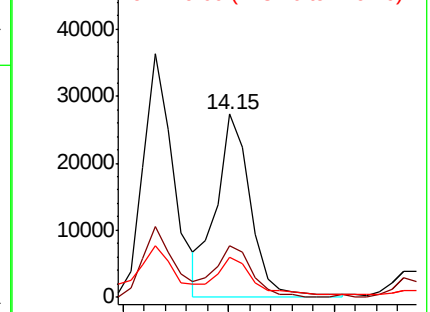


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.66 min Scan# 2307

Delta R.T. -0.00 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

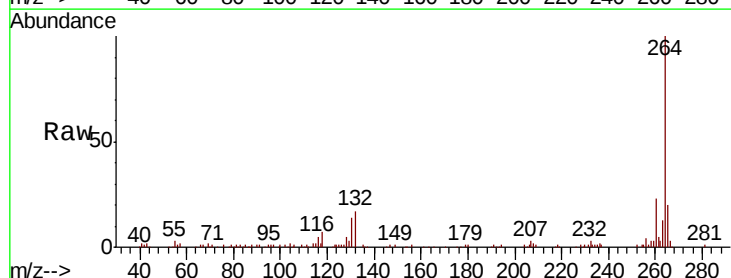
Tgt Ion:264 Resp: 109300

Ion Ratio Lower Upper

264 100

260 23.1 18.7 28.1

265 20.3 16.7 25.1

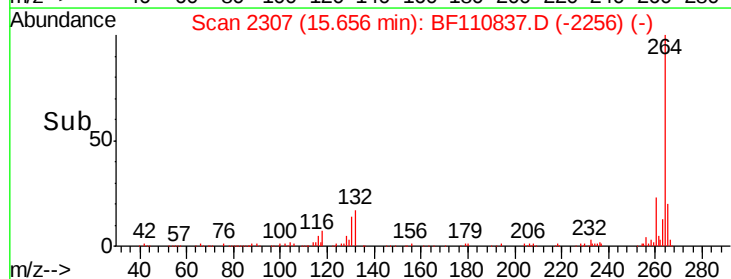
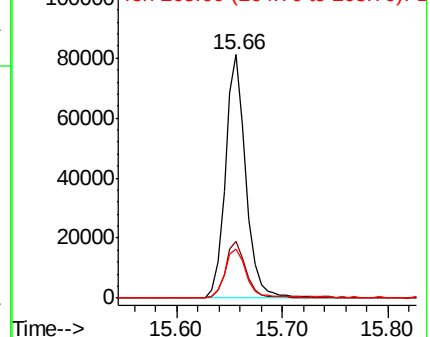


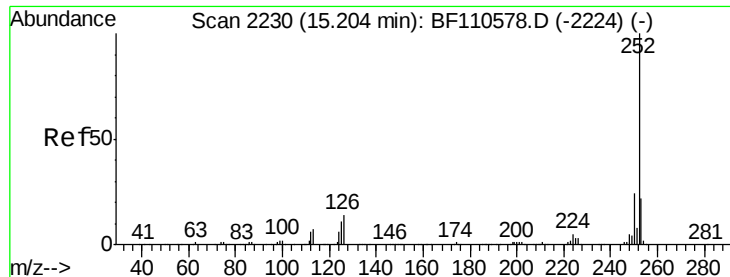
Abundance

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





#88

Benzo(b)fluoranthene

Concen: 7.092 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.00 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

Instrument :

BNA\_F

ClientSampleId :

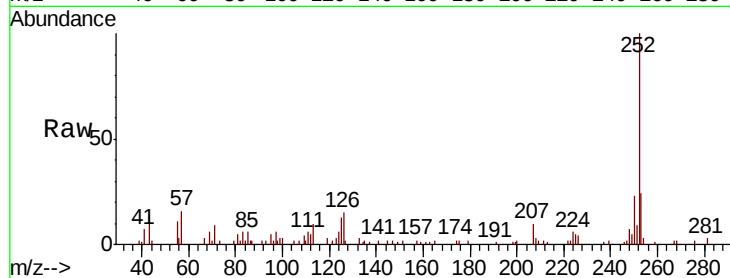
Tgt Ion:252 Resp: 46372

Ion Ratio Lower Upper

252 100

253 24.2 17.2 25.8

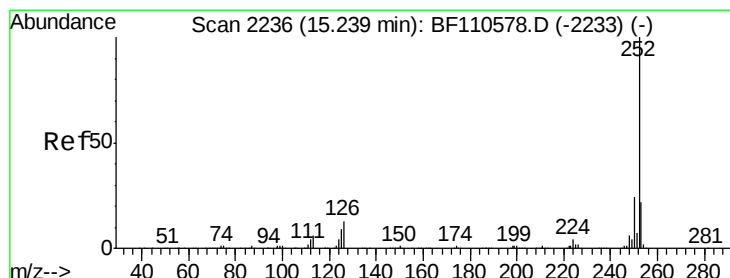
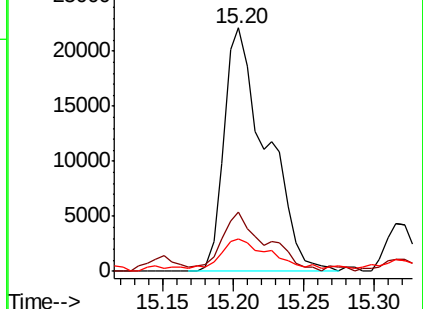
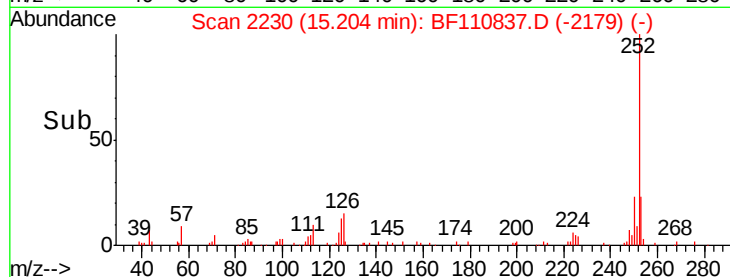
125 13.2 8.2 12.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89

Benzo(k)fluoranthene

Concen: 7.177 ng

RT: 15.20 min Scan# 2230

Delta R.T. -0.04 min

Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

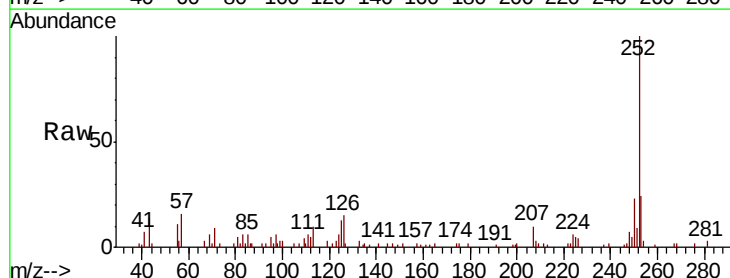
Tgt Ion:252 Resp: 46372

Ion Ratio Lower Upper

252 100

253 24.2 17.2 25.8

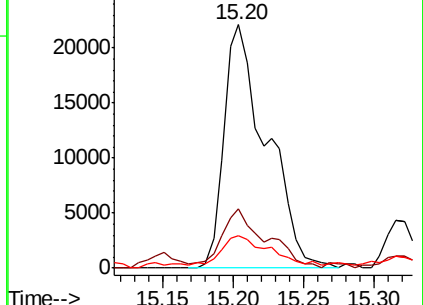
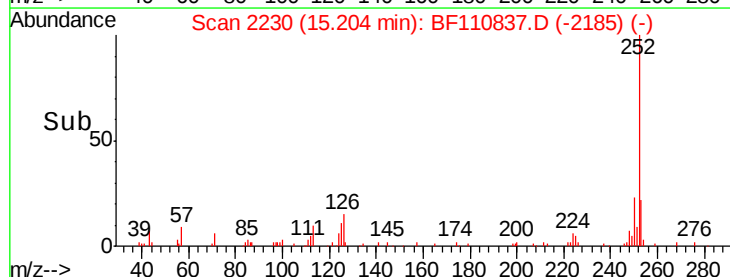
125 13.2 7.4 11.0#

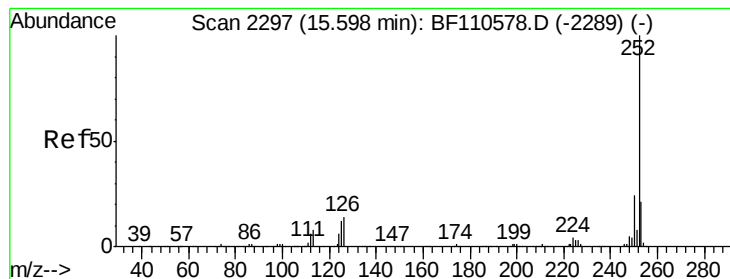


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 3.973 ng

RT: 15.59 min Scan# 2296

Delta R.T. -0.01 min

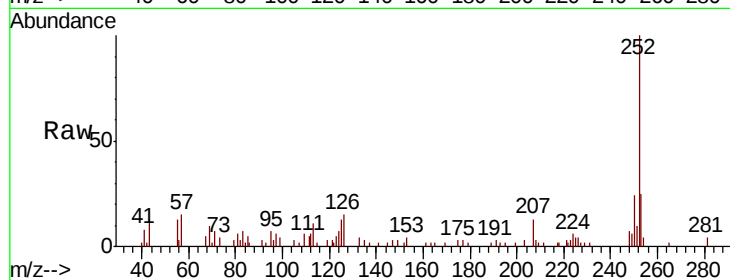
Lab File: BF110837.D

Acq: 17 Nov 2018 1:32

Instrument :

BNA\_F

ClientSampleId :



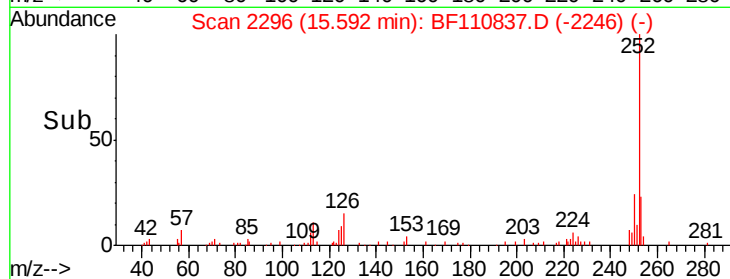
Tgt Ion: 252 Resp: 23603

Ion Ratio Lower Upper

252 100

253 24.5 18.2 27.4

125 12.5 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

