

Data Path : U:\HPCHEM1\BNA F\DATA\BF012618\  
 Data File : BF102482.D  
 Acq On : 26 Jan 2018 21:23  
 Operator : SJ/JU  
 Sample : J1257-03 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 26 23:06:09 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 26 16:18:07 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.72  | 152  | 157327   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.00  | 136  | 634710   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.76  | 164  | 244143   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.25 | 188  | 331208   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 13.90 | 240  | 220965   | 20.00 | ng    | 0.02     |
| 86) Perylene-d12          | 15.34 | 264  | 155218   | 20.00 | ng    | 0.04     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.33  | 112  | 225392   | 21.72 | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 268059   | 21.43 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.28  | 82   | 133409   | 12.08 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.55 | 330  | 31329    | 12.95 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.07  | 172  | 285657   | 17.20 | ng    | 0.00     |
| 78) Terphenyl-d14           | 12.83 | 244  | 167779   | 17.12 | ng    | 0.00     |

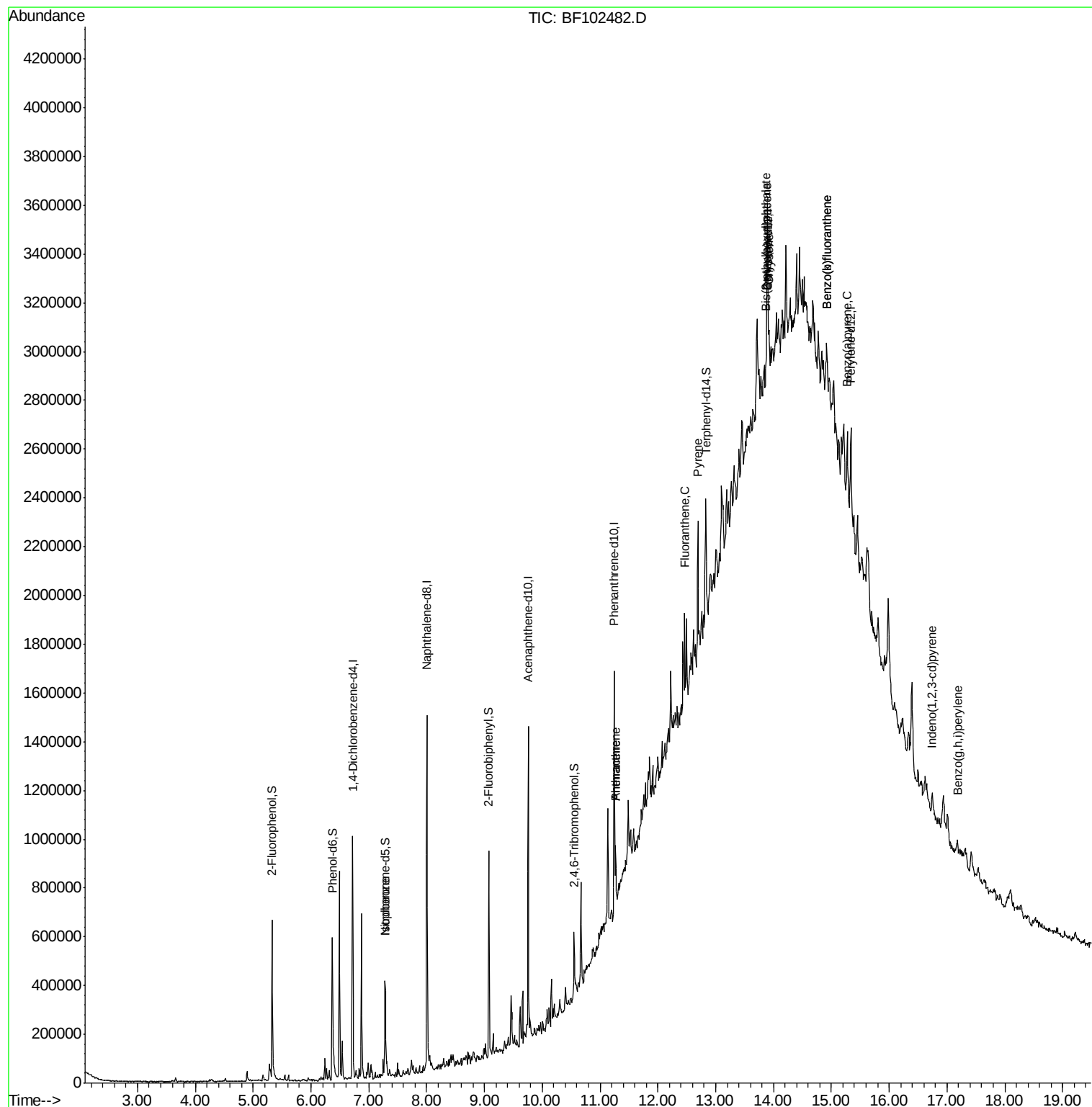
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 25) Isophorone                 | 7.28  | 82   | 130486   | 6.627  | ng    | # 65   |
| 70) Phenanthrene               | 11.27 | 178  | 85324    | 4.421  | ng    | 99     |
| 71) Anthracene                 | 11.27 | 178  | 85324    | 4.331  | ng    | 99     |
| 74) Fluoranthene               | 12.46 | 202  | 132165   | 6.715  | ng    | 97     |
| 77) Pyrene                     | 12.69 | 202  | 228828   | 13.394 | ng    | 99     |
| 80) Benzo(a)anthracene         | 13.89 | 228  | 53467    | 3.930  | ng    | # 86   |
| 82) Chrysene                   | 13.92 | 228  | 68012    | 4.923  | ng    | # 90   |
| 83) Bis(2-ethylhexyl)phthalate | 13.87 | 149  | 36402    | 3.186  | ng    | # 86   |
| 85) Indeno(1,2,3-cd)pyrene     | 16.74 | 276  | 46013    | 4.033  | ng    | 97     |
| 87) Benzo(b)fluoranthene       | 14.93 | 252  | 120158   | 11.944 | ng    | # 43   |
| 88) Benzo(k)fluoranthene       | 14.93 | 252  | 120158   | 12.642 | ng    | # 45   |
| 89) Benzo(a)pyrene             | 15.28 | 252  | 64545    | 7.114  | ng    | # 46   |
| 91) Benzo(a,h,i)perylene       | 17.17 | 276  | 44813    | 6.175  | ng    | # 79   |

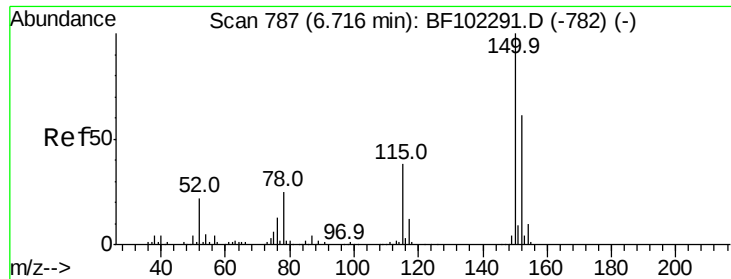
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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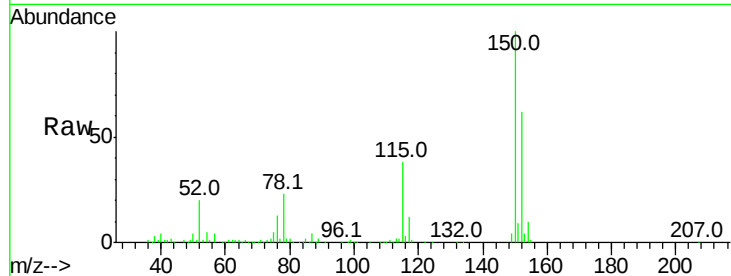


#1

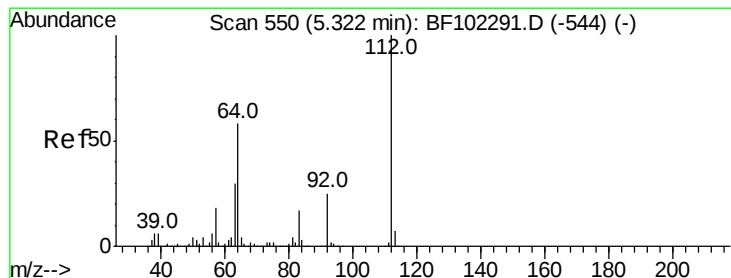
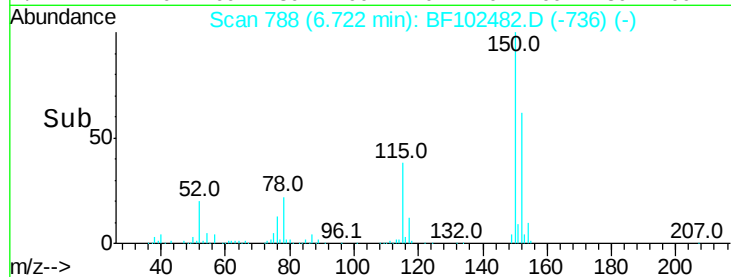
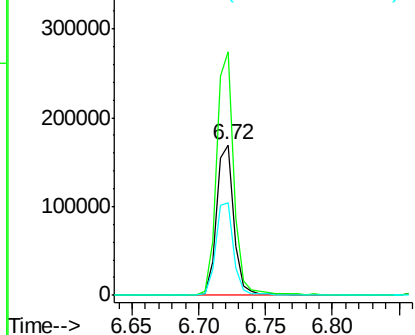
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.72 min Scan# 788  
Delta R.T. 0.01 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 157327  
Ion Ratio Lower Upper  
152 100  
150 161.5 124.6 186.8  
115 61.5 50.1 75.1



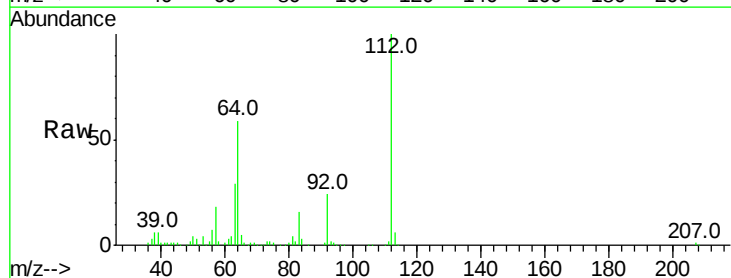
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



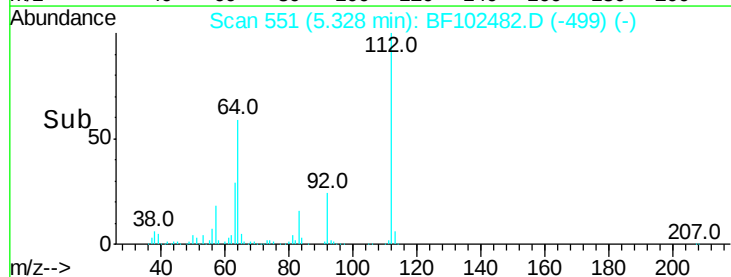
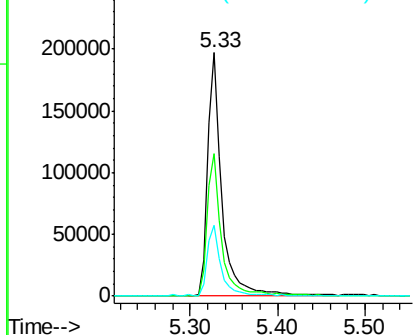
#5

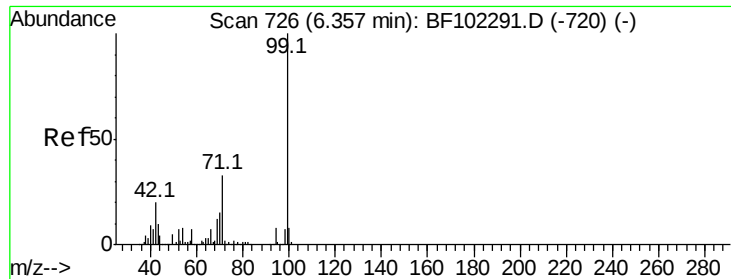
2-Fluorophenol  
Concen: 21.722 ng  
RT: 5.33 min Scan# 551  
Delta R.T. 0.01 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

Tgt Ion:112 Resp: 225392  
Ion Ratio Lower Upper  
112 100  
64 58.6 47.9 71.9  
63 28.9 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: 21.429 ng

RT: 6.37 min Scan# 728

Delta R.T. 0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampled :

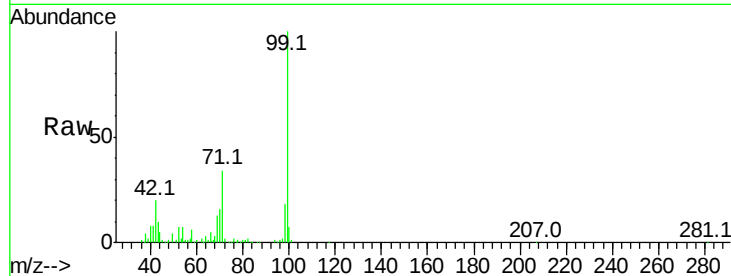
Tot Ion: 99 Resp: 268059

Ion Ratio Lower Upper

99 100

42 19.8 14.5 21.7

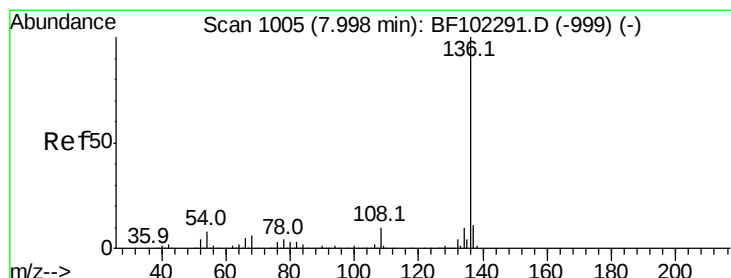
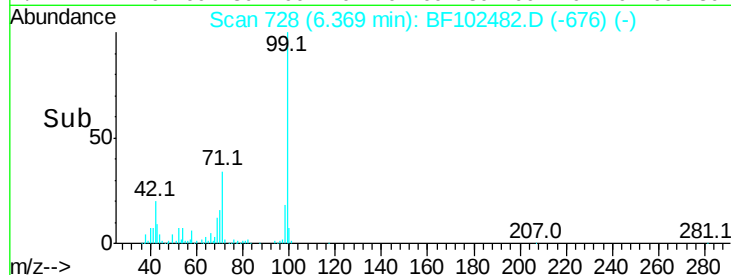
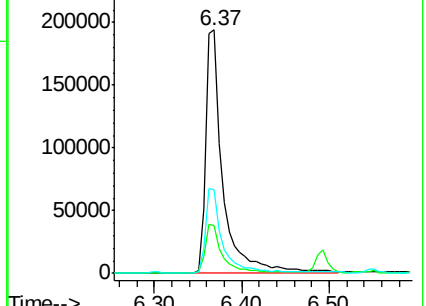
71 34.4 25.4 38.0



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: 8.00 min Scan# 1006

Delta R.T. 0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Tgt Ion: 136 Resp: 634710

Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 8.0 6.6 9.8

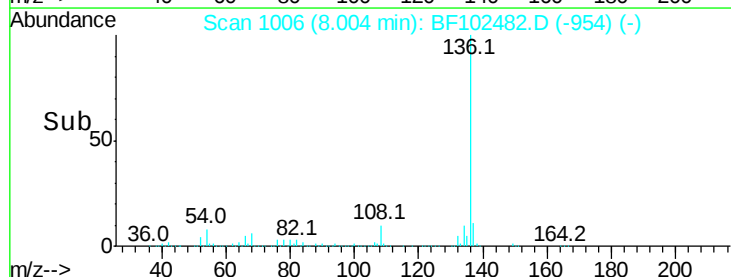
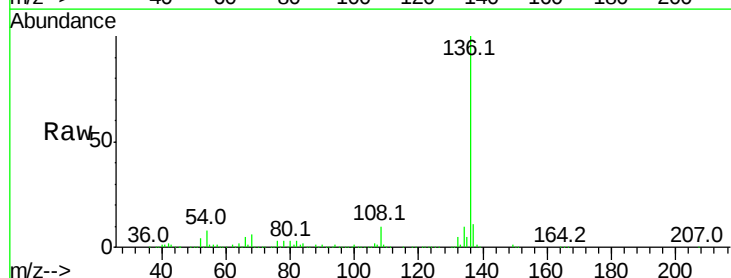
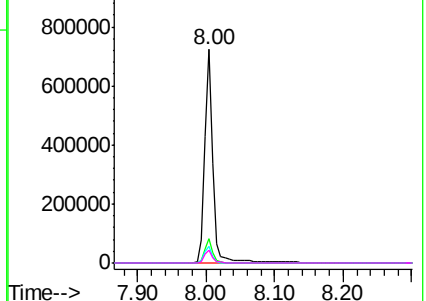
68 6.1 5.0 7.4

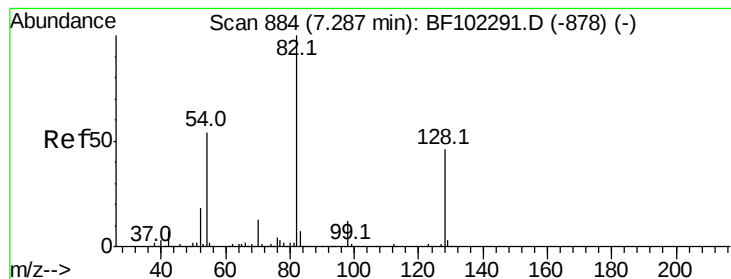
Abundance Ion 136.00 (135.70 to 136.70): E

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: 12.079 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

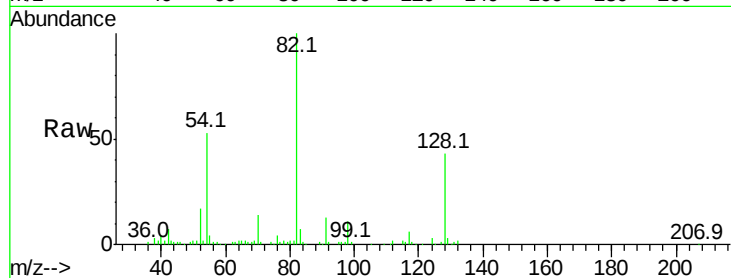
Tot Ion: 82 Resp: 133409

Ion Ratio Lower Upper

82 100

128 42.6 36.1 54.1

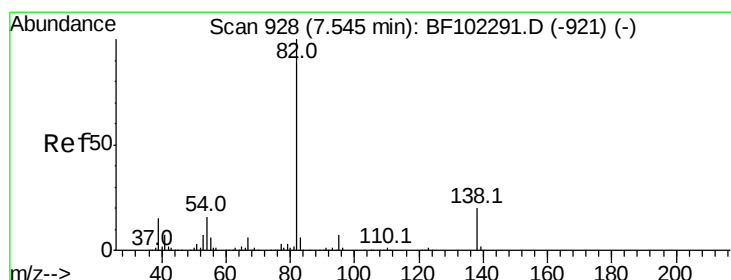
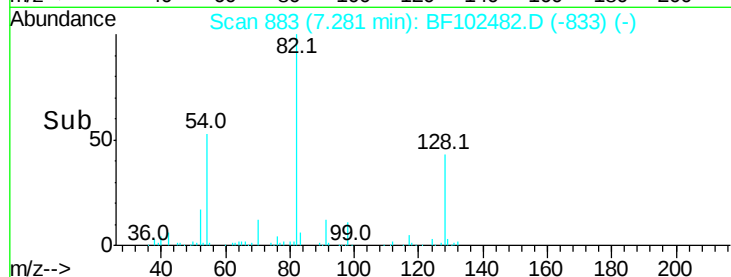
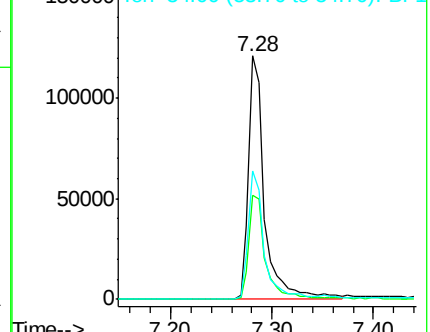
54 52.9 41.4 62.2



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



#25

Isophorone

Concen: 6.627 ng

RT: 7.28 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

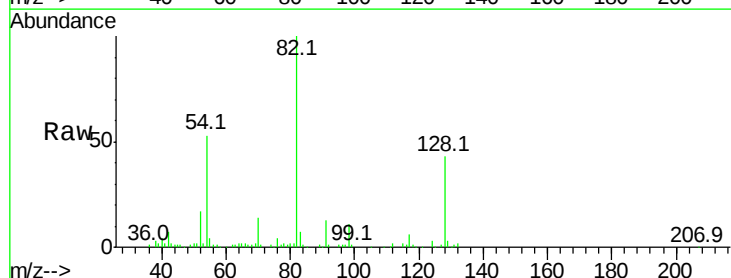
Tgt Ion: 82 Resp: 130486

Ion Ratio Lower Upper

82 100

95 0.6 5.2 7.8#

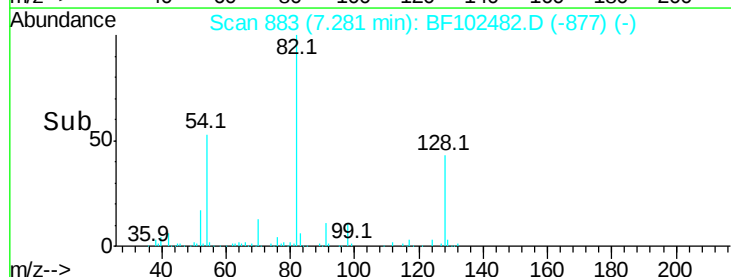
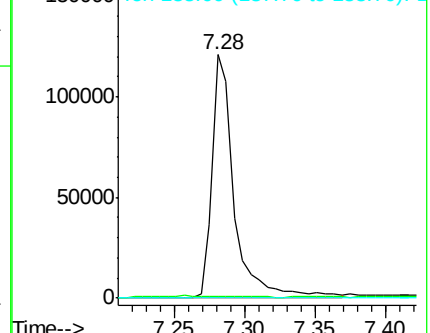
138 0.0 14.9 22.3#

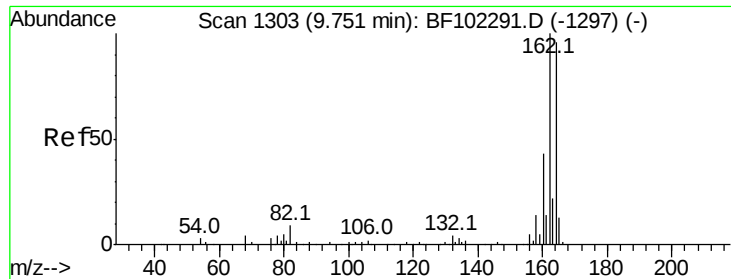


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.76 min Scan# 1304

Delta R.T. 0.00 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

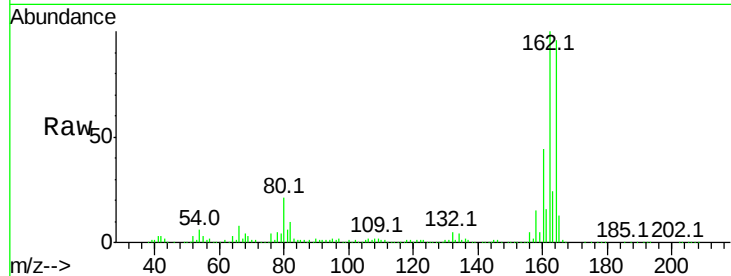
Tot Ion:164 Resp: 244143

Ion Ratio Lower Upper

164 100

162 104.5 86.1 129.1

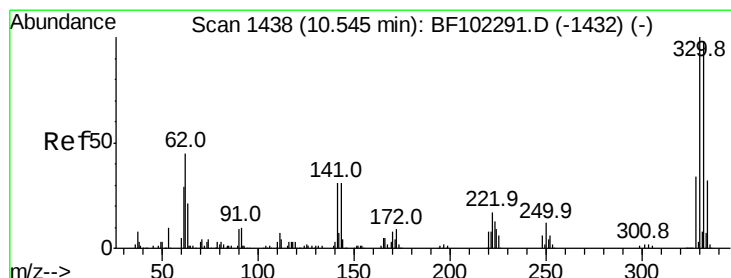
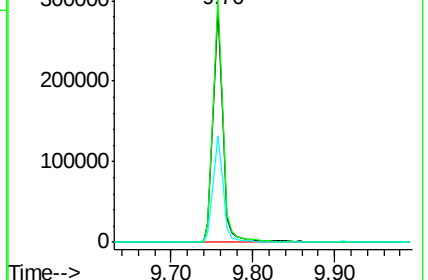
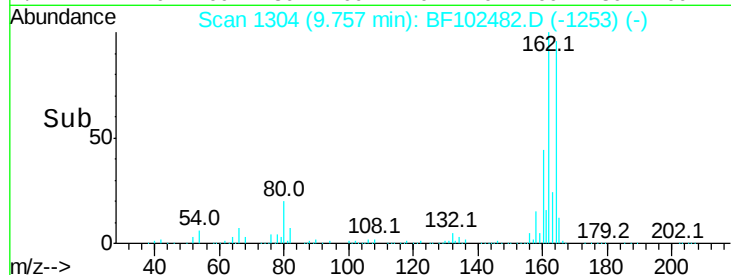
160 45.6 38.3 57.5



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: 12.951 ng

RT: 10.55 min Scan# 1439

Delta R.T. 0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

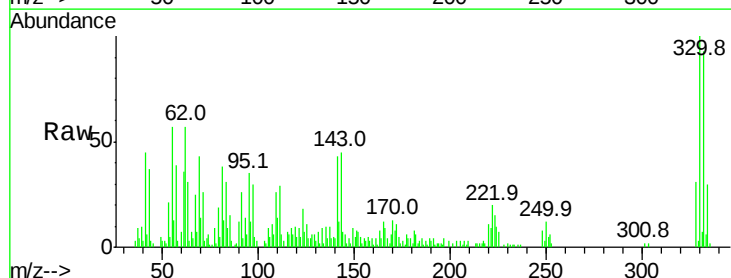
Tgt Ion:330 Resp: 31329

Ion Ratio Lower Upper

330 100

332 97.5 77.0 115.6

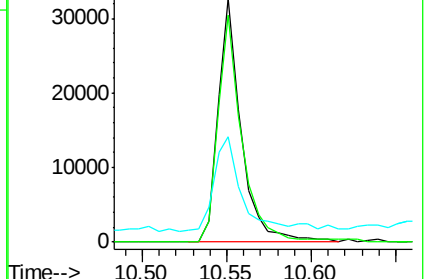
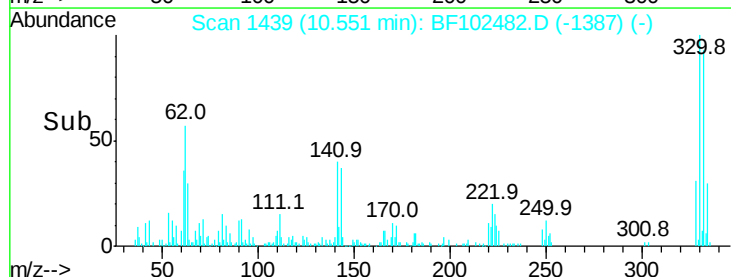
141 51.0 29.9 44.9#

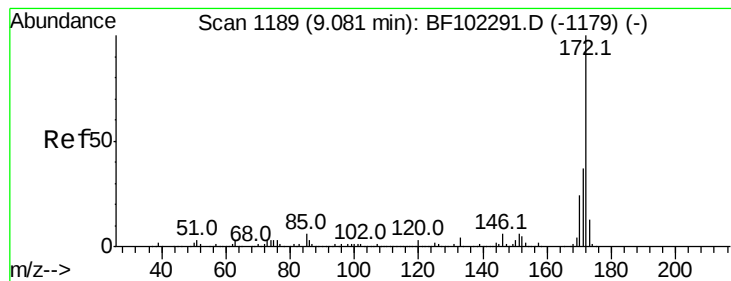


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

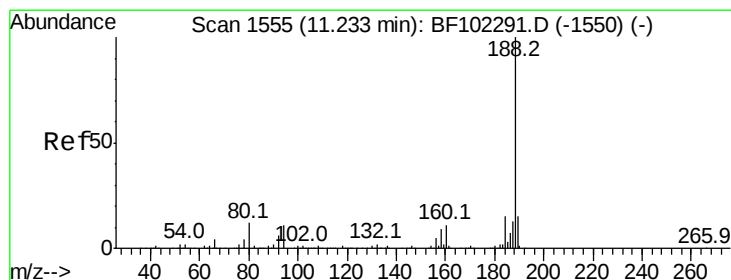
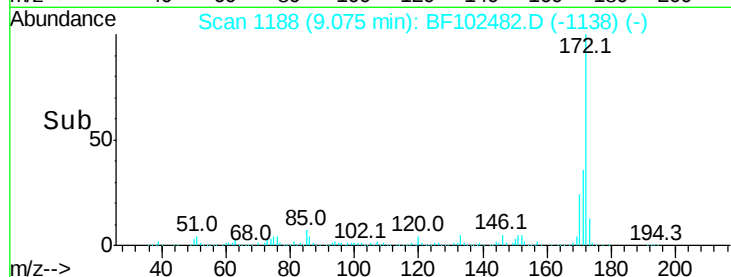
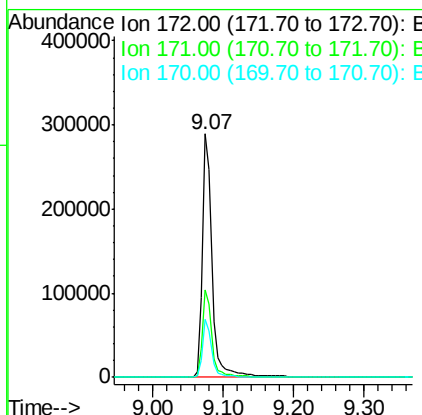
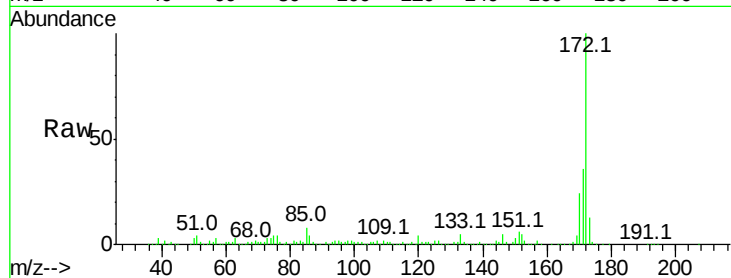




#44  
2-Fluorobiphenyl  
Concen: 17.204 ng  
RT: 9.07 min Scan# 1188  
Delta R.T. -0.01 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

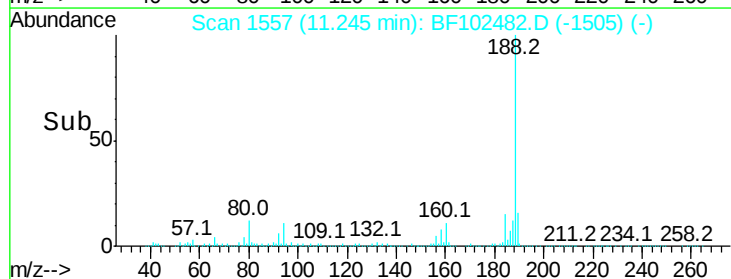
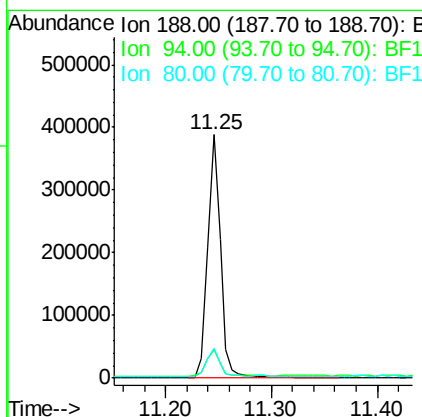
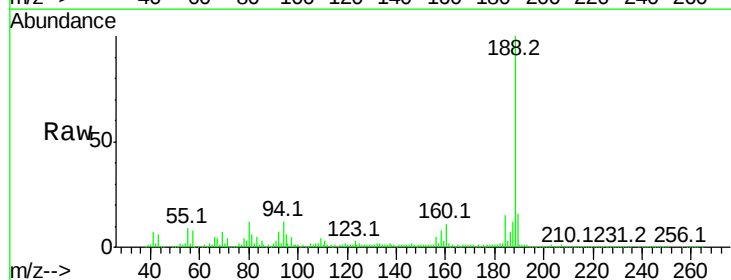
Instrument :  
BNA\_F  
ClientSampleId :

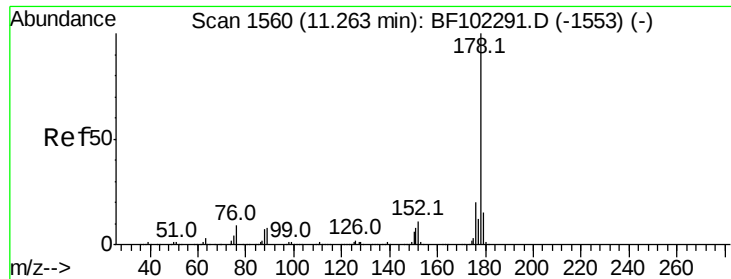
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.7  | 44.5  |
| 170     | 23.9  | 19.6  | 29.4  |



#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.25 min Scan# 1557  
Delta R.T. 0.01 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 11.6  | 8.5   | 12.7  |
| 80      | 12.2  | 9.2   | 13.8  |





#70

Phenanthrene

Concen: 4.421 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.00 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

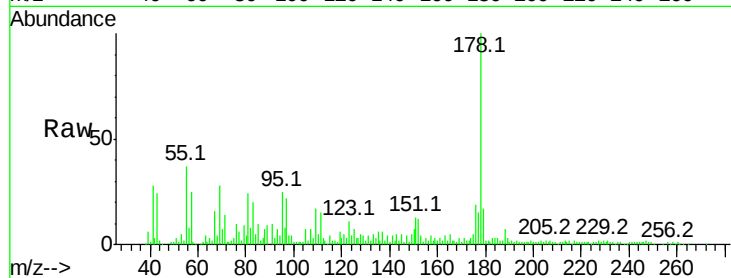
Tot Ion:178 Resp: 85324

Ion Ratio Lower Upper

178 100

176 19.4 15.8 23.8

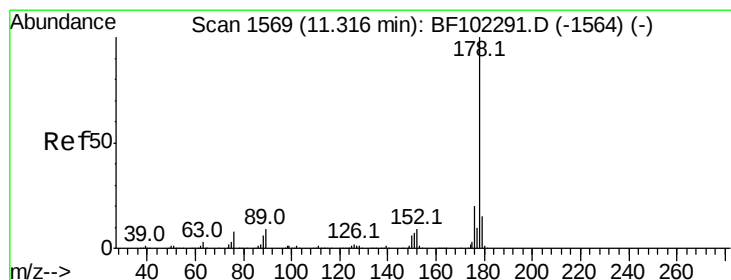
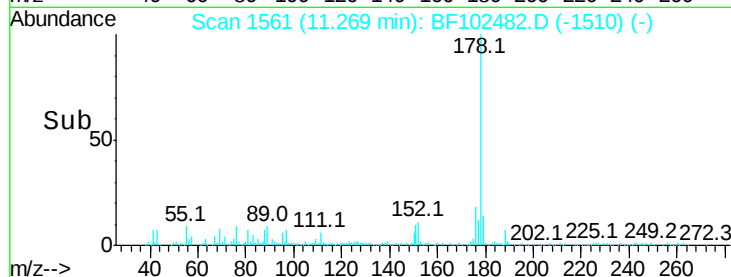
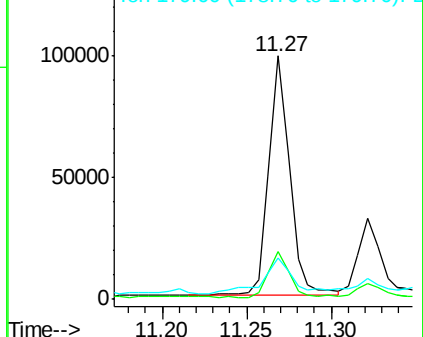
179 16.9 13.0 19.6



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: 4.331 ng

RT: 11.27 min Scan# 1561

Delta R.T. -0.05 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

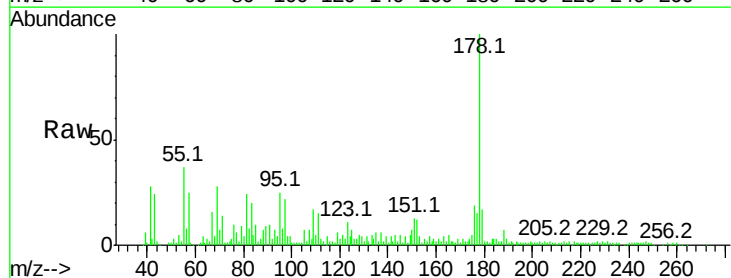
Tgt Ion:178 Resp: 85324

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.2

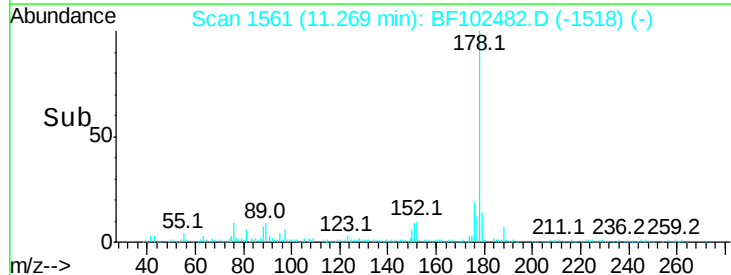
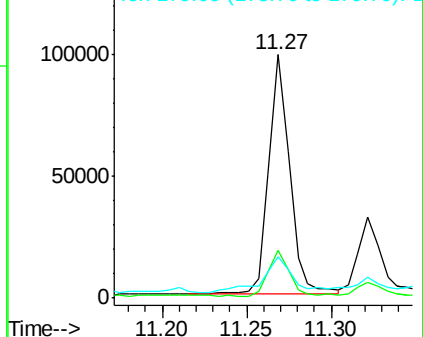
179 16.9 12.6 19.0

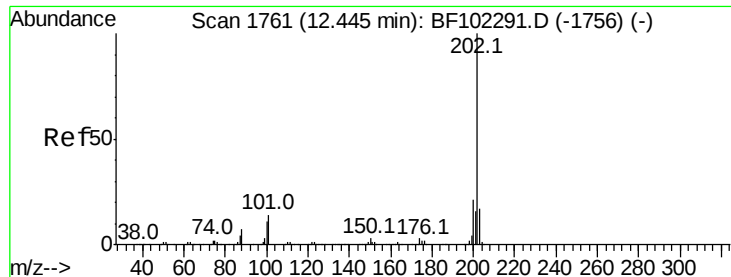


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 6.715 ng

RT: 12.46 min Scan# 1764

Delta R.T. 0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

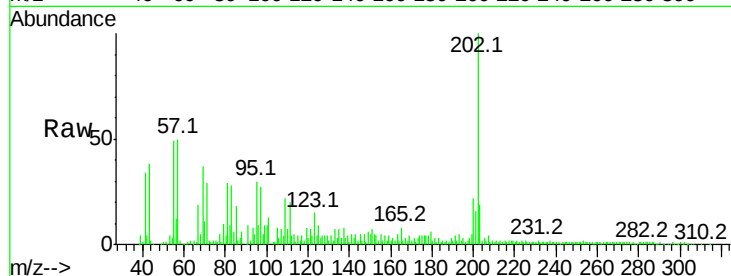
Tot Ion:202 Resp: 132165

Ion Ratio Lower Upper

202 100

101 12.6 0.0 34.1

203 19.1 0.0 38.1



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

12.46

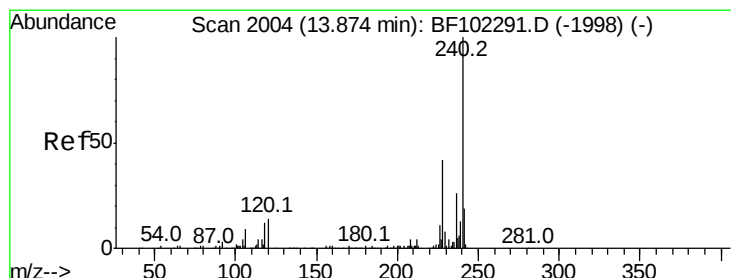
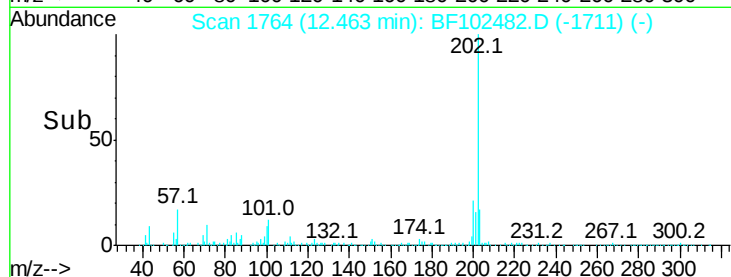
150000

100000

50000

0

Time-->



#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.02 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

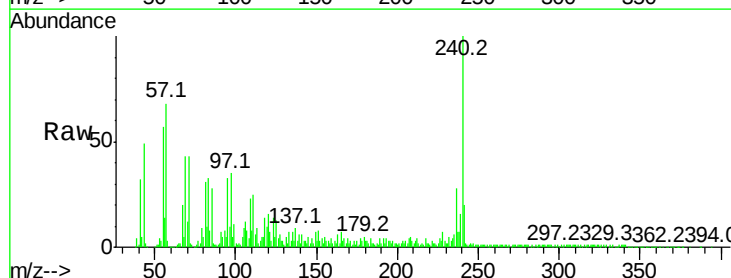
Tgt Ion:240 Resp: 220965

Ion Ratio Lower Upper

240 100

120 16.4 9.5 14.3#

236 27.6 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

13.90

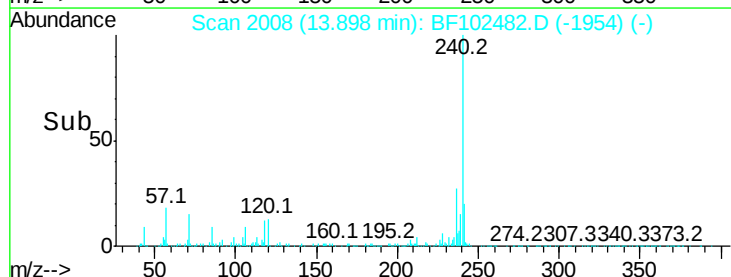
300000

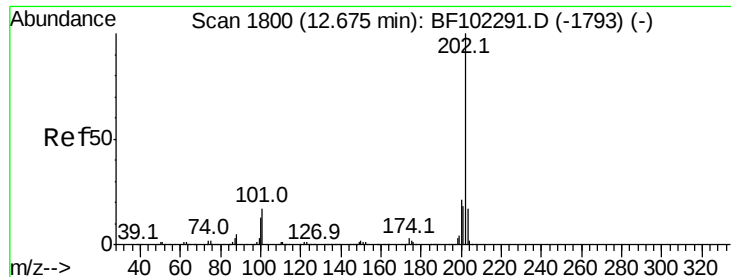
200000

100000

0

Time-->





#77

Pvrene

Concen: 13.394 ng

RT: 12.69 min Scan# 1803

Delta R.T. 0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

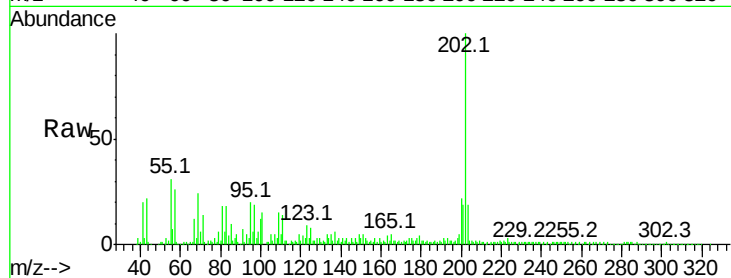
Tot Ion:202 Resp: 228828

Ion Ratio Lower Upper

202 100

200 21.7 17.4 26.2

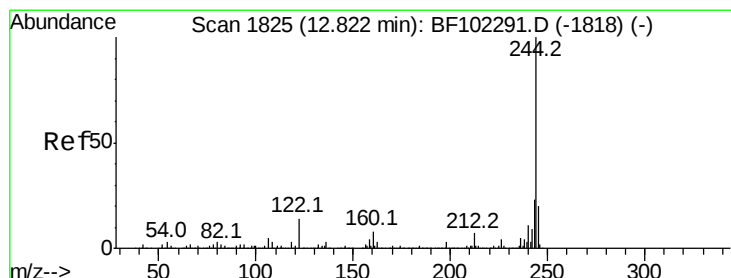
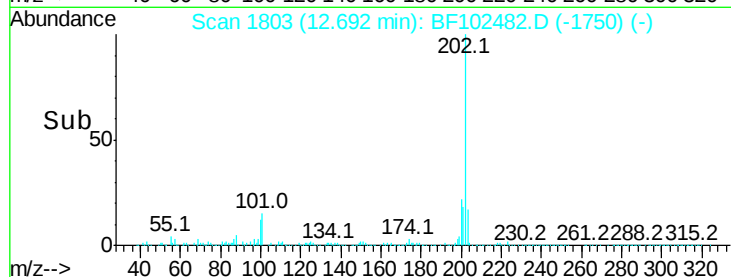
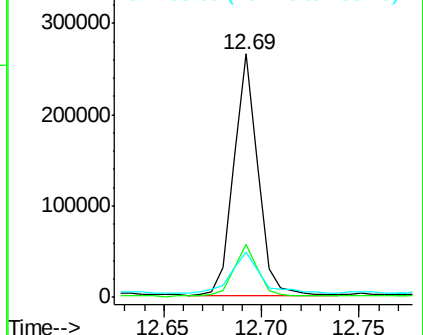
203 18.7 14.3 21.5



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: 17.117 ng

RT: 12.83 min Scan# 1827

Delta R.T. 0.01 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

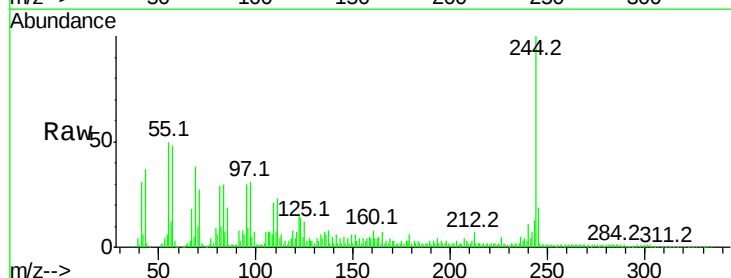
Tgt Ion:244 Resp: 167779

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

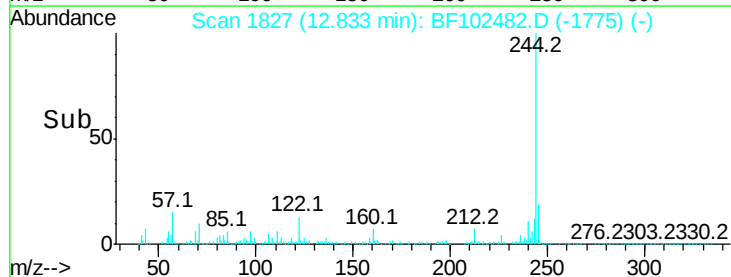
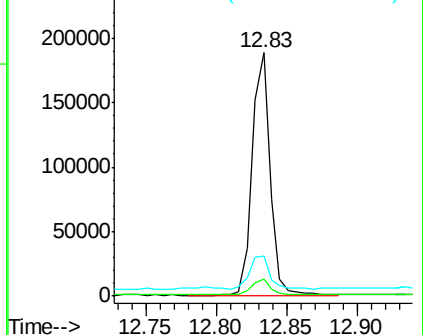
122 16.2 11.0 16.4

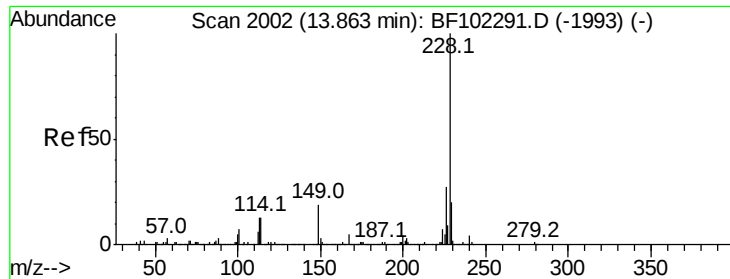


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

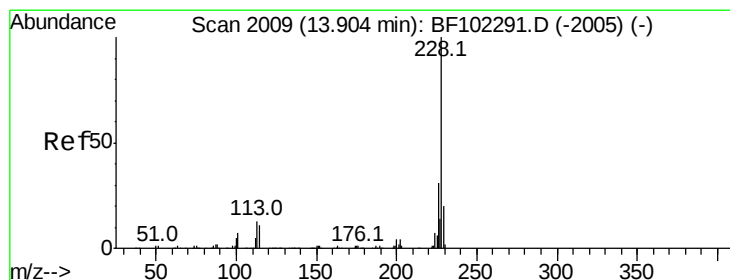
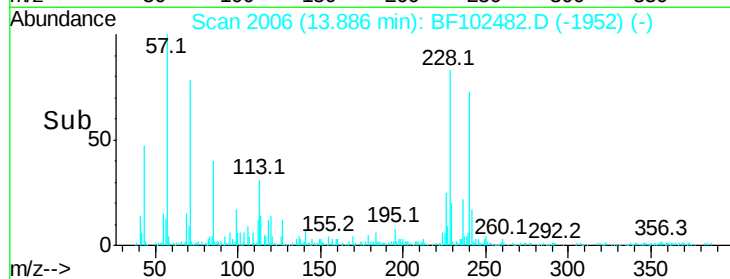
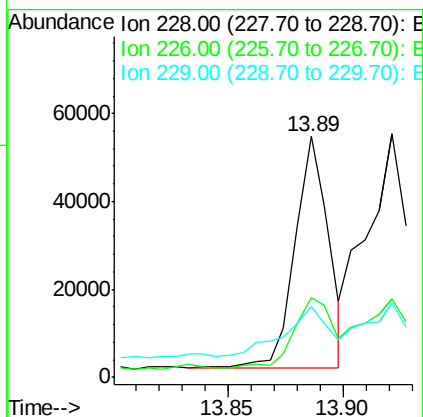
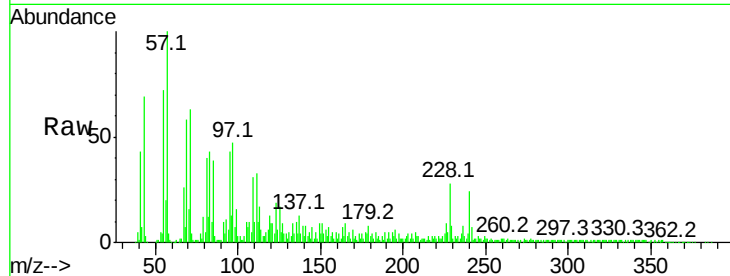




#80  
Benzo(a)anthracene  
Concen: 3.930 ng  
RT: 13.89 min Scan# 2006  
Delta R.T. 0.02 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

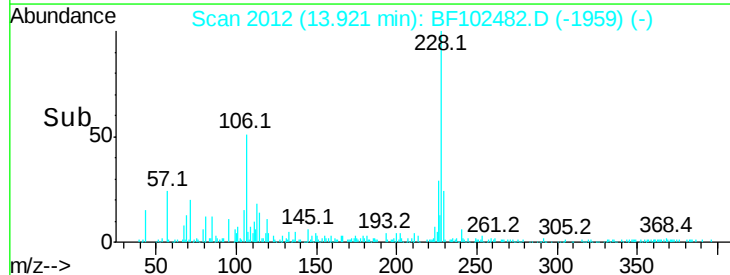
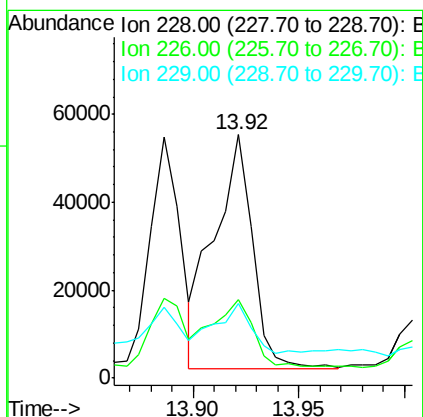
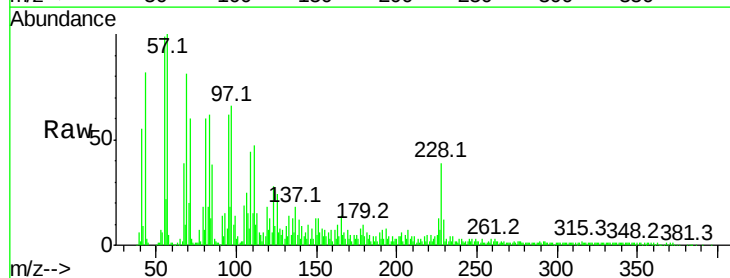
Instrument :  
BNA\_F  
ClientSampleId :

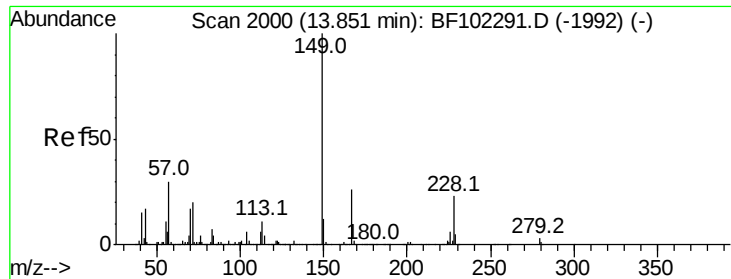
Tot Ion:228 Resp: 53467  
Ion Ratio Lower Upper  
228 100  
226 33.1 22.6 33.8  
229 29.5 15.8 23.6#



#82  
Chrysene  
Concen: 4.923 ng  
RT: 13.92 min Scan# 2012  
Delta R.T. 0.01 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

Tgt Ion:228 Resp: 68012  
Ion Ratio Lower Upper  
228 100  
226 32.3 25.0 37.6  
229 30.8 16.2 24.4#

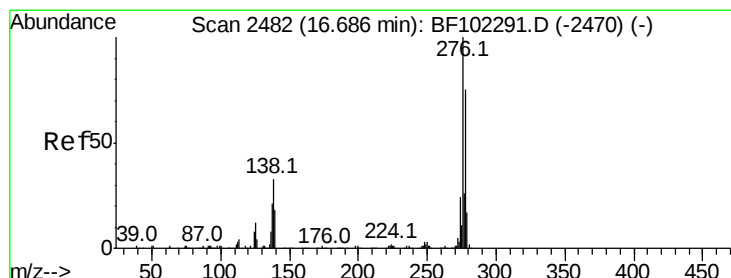
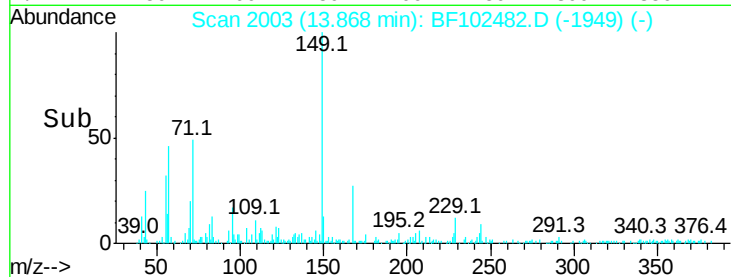
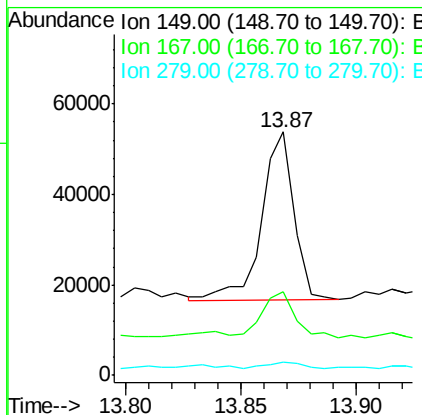
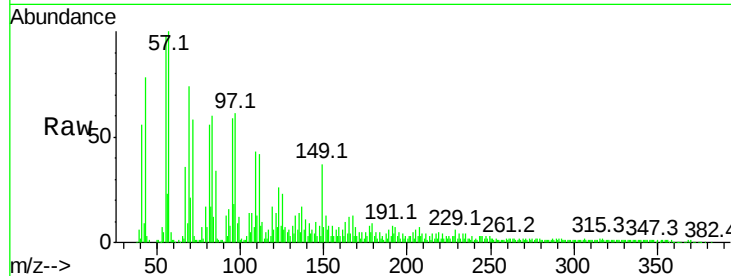




#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 3.186 ng  
 RT: 13.87 min Scan# 2003  
 Delta R.T. 0.02 min  
 Lab File: BF102482.D  
 Acq: 26 Jan 2018 21:23

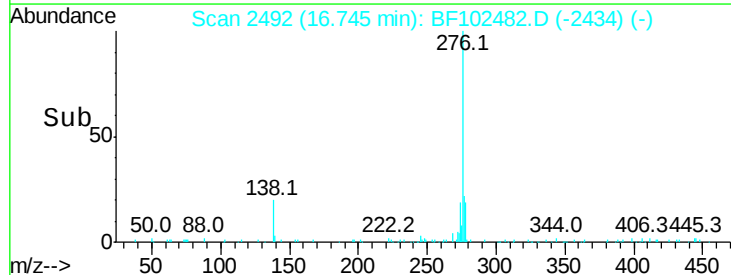
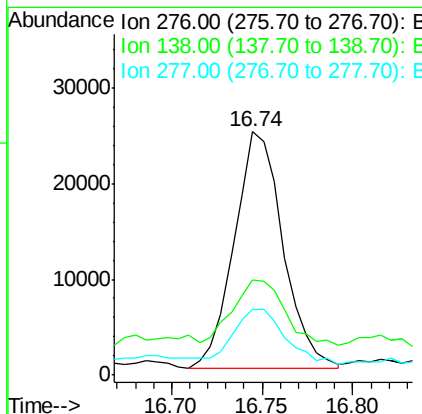
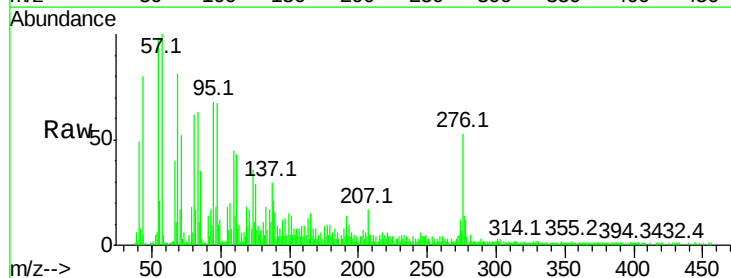
Instrument :  
 BNA\_F  
 ClientSampleId :

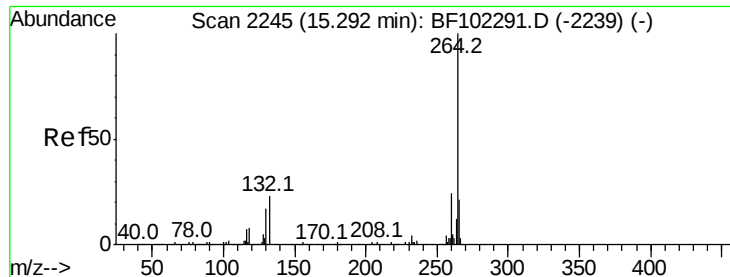
Tot Ion:149 Resp: 36402  
 Ion Ratio Lower Upper  
 149 100  
 167 34.1 21.3 31.9#  
 279 5.6 3.0 4.4#



#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.033 ng  
 RT: 16.74 min Scan# 2492  
 Delta R.T. 0.04 min  
 Lab File: BF102482.D  
 Acq: 26 Jan 2018 21:23

Tgt Ion:276 Resp: 46013  
 Ion Ratio Lower Upper  
 276 100  
 138 29.7 25.0 37.6  
 277 23.3 20.1 30.1





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.34 min Scan# 2253

Delta R.T. 0.04 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

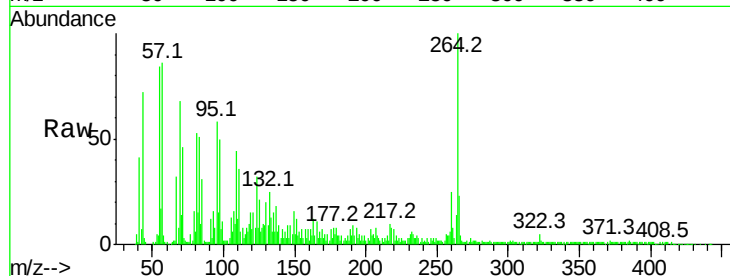
Tot Ion:264 Resp: 155218

Ion Ratio Lower Upper

264 100

260 24.8 19.2 28.8

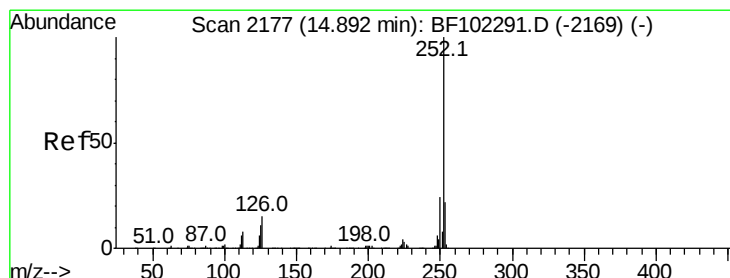
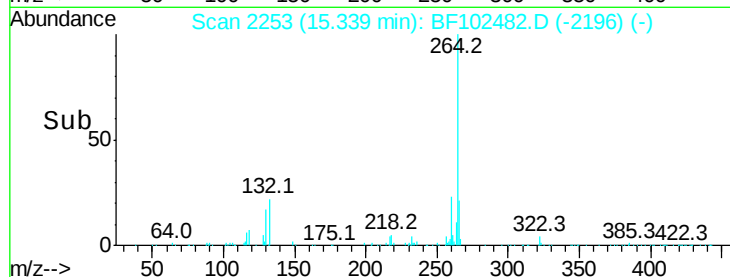
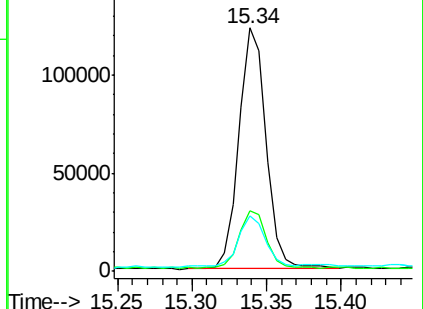
265 22.9 17.5 26.3



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: 11.944 ng

RT: 14.93 min Scan# 2183

Delta R.T. 0.03 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

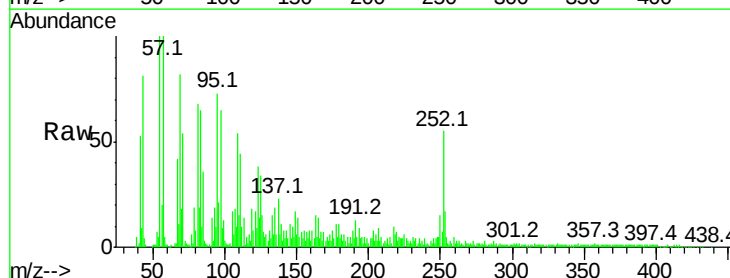
Tgt Ion:252 Resp: 120158

Ion Ratio Lower Upper

252 100

253 29.9 17.0 25.6#

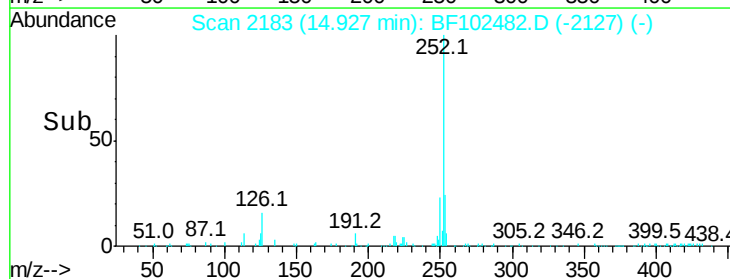
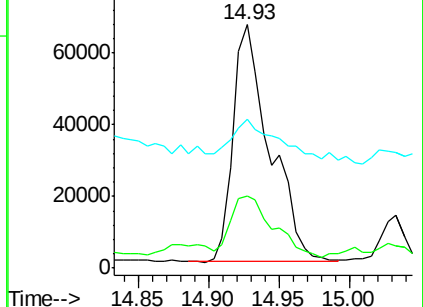
125 61.4 9.0 13.6#

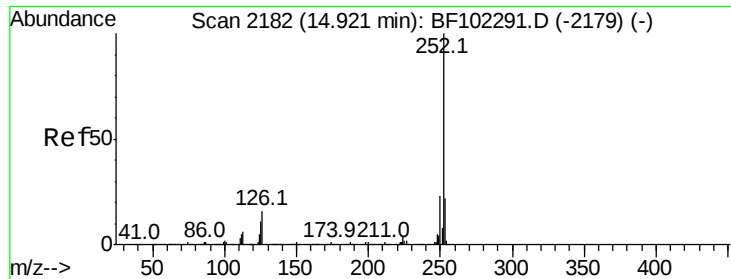


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

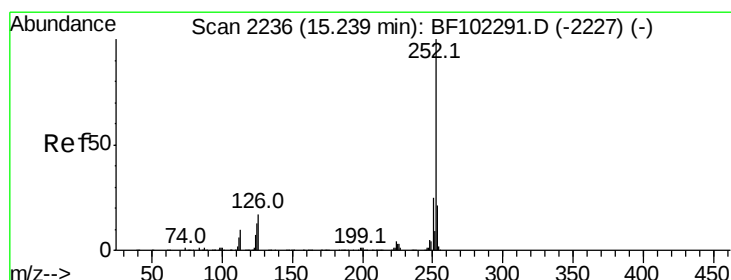
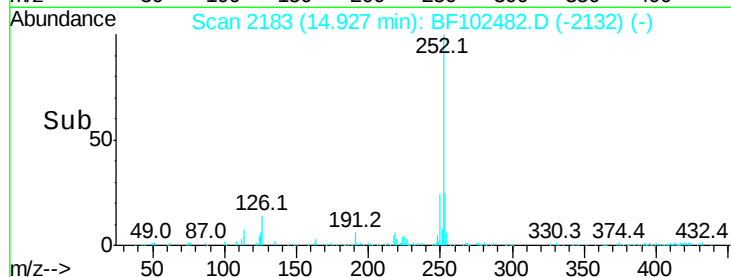
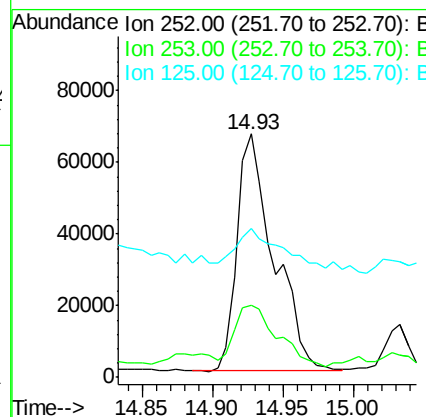
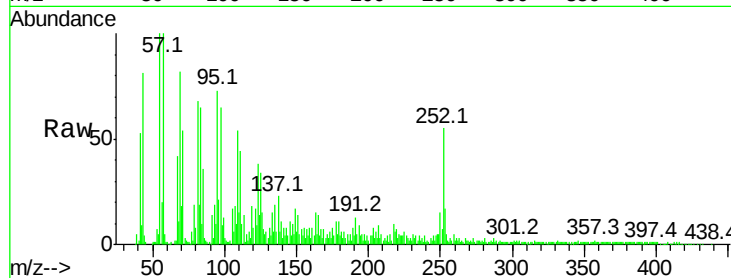




#88  
Benzo(k)fluoranthene  
Concen: 12.642 ng  
RT: 14.93 min Scan# 2183  
Delta R.T. 0.00 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

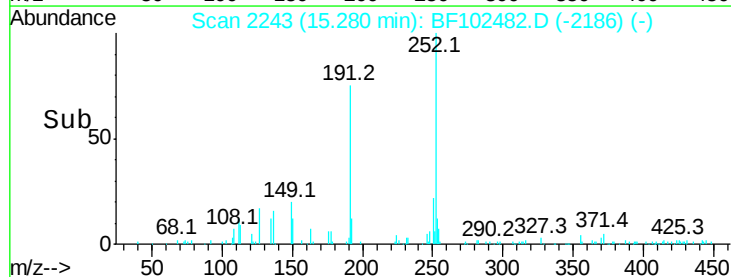
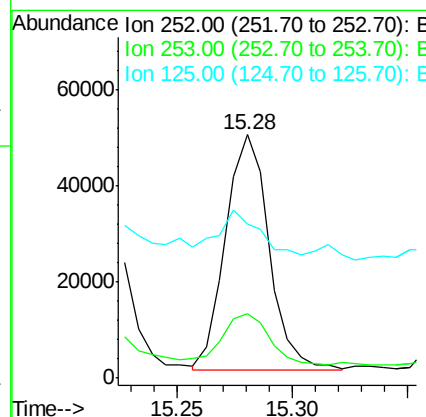
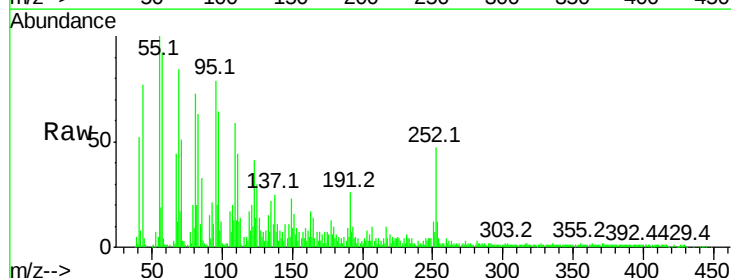
Instrument :  
BNA\_F  
ClientSampleId :

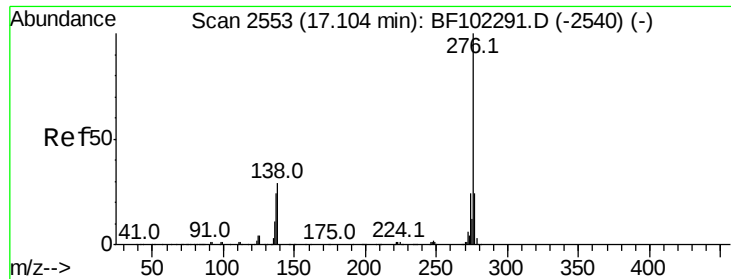
Tot Ion:252 Resp: 120158  
Ion Ratio Lower Upper  
252 100  
253 29.9 17.9 26.9#  
125 61.4 10.2 15.2#



#89  
Benzo(a)pyrene  
Concen: 7.114 ng  
RT: 15.28 min Scan# 2243  
Delta R.T. 0.04 min  
Lab File: BF102482.D  
Acq: 26 Jan 2018 21:23

Tgt Ion:252 Resp: 64545  
Ion Ratio Lower Upper  
252 100  
253 26.6 17.1 25.7#  
125 63.1 9.8 14.6#





#91

Benzo(a,h,i)perylene

Concen: 6.175 ng

RT: 17.17 min Scan# 2565

Delta R.T. 0.05 min

Lab File: BF102482.D

Acq: 26 Jan 2018 21:23

Instrument :

BNA\_F

ClientSampleId :

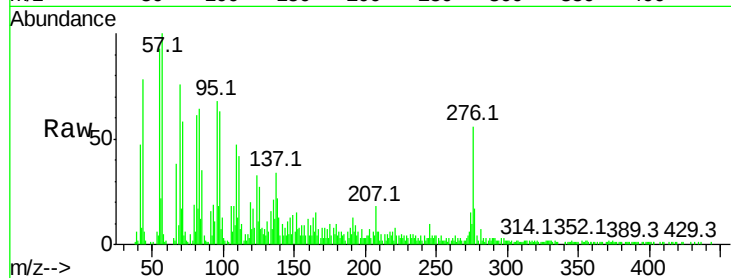
Tot Ion:276 Resp: 44813

Ion Ratio Lower Upper

276 100

277 30.5 17.9 26.9#

138 40.3 21.8 32.8#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

