

Data Path : Z:\HPCHEM1\BNA F\DATA\BF112917\  
 Data File : BF101000.D  
 Acq On : 30 Nov 2017 2:35  
 Operator : SJ/JU  
 Sample : I6610-20DL 5X  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 30 04:08:05 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 28 15:21:02 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.85  | 152  | 52927    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.13  | 136  | 189466   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 9.89  | 164  | 72439    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 11.38 | 188  | 125942   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 14.03 | 240  | 114561   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.50 | 264  | 87082    | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.46  | 112  | 71636    | 21.70 | ng    | -0.01    |
| 7) Phenol-d6                | 6.47  | 99   | 84673    | 20.80 | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 46414    | 16.20 | ng    | -0.02    |
| 41) 2,4,6-Tribromophenol    | 10.68 | 330  | 16309    | 22.09 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.20  | 172  | 103682   | 21.79 | ng    | -0.01    |
| 78) Terphenyl-d14           | 12.96 | 244  | 87524    | 17.55 | ng    | 0.00     |

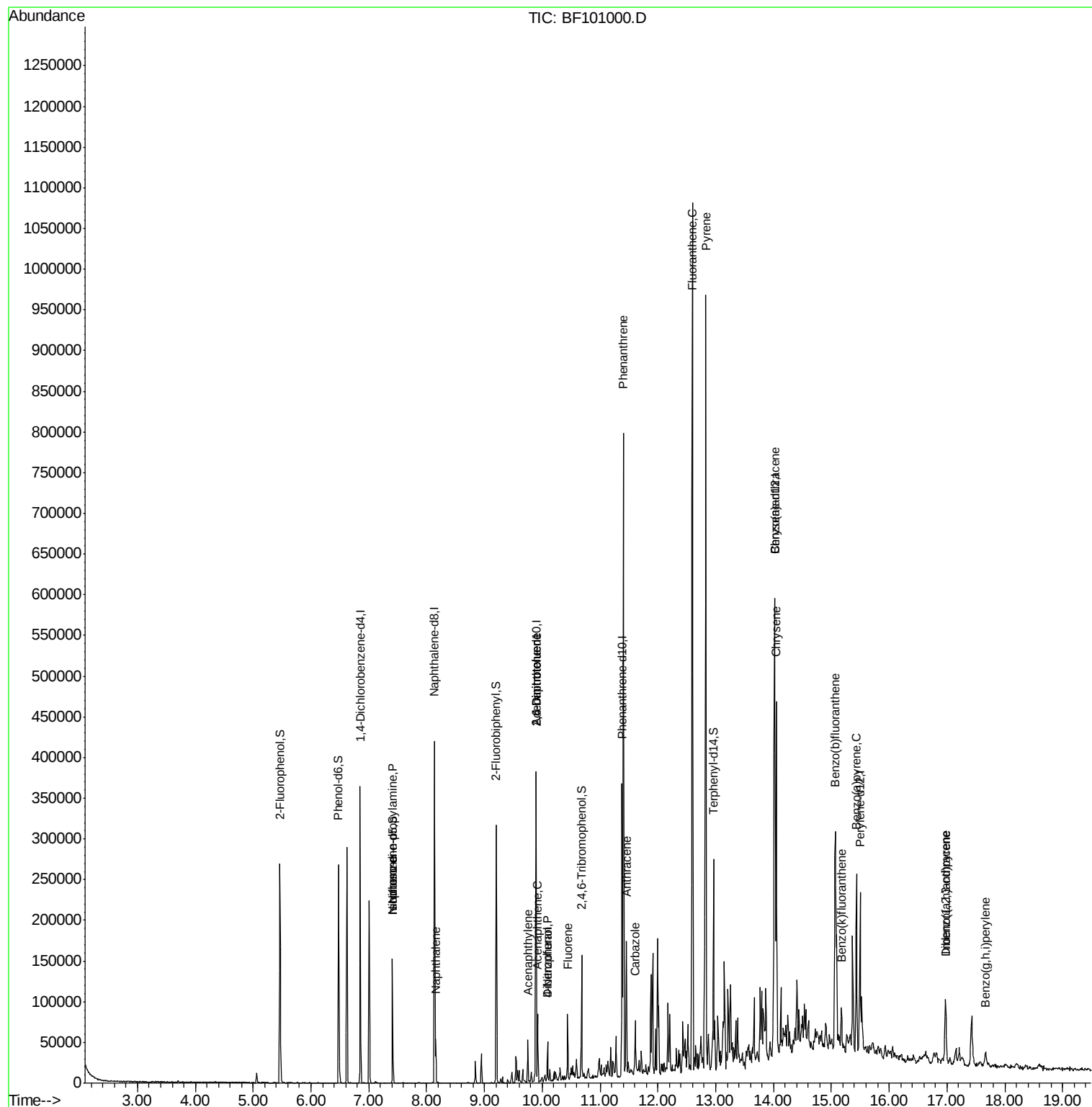
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.41  | 70   | 5845     | 2.070  | ng    | # 84   |
| 25) Isophorone                 | 7.41  | 82   | 46423    | 7.709  | ng    | # 64   |
| 31) Naphthalene                | 8.16  | 128  | 20783    | 2.277  | ng    | 96     |
| 48) Acenaphthylene             | 9.75  | 152  | 18380    | 2.440  | ng    | 99     |
| 50) 2,6-Dinitrotoluene         | 9.89  | 165  | 10234    | 9.348  | ng    | # 24   |
| 51) Acenaphthene               | 9.92  | 154  | 15838    | 3.457  | ng    | 97     |
| 54) Dibenzofuran               | 10.09 | 168  | 14793    | 2.304  | ng    | # 96   |
| 55) 4-Nitrophenol              | 10.09 | 139  | 5356     | 5.102  | ng    | # 9    |
| 56) 2,4-Dinitrotoluene         | 9.89  | 165  | 10234    | 7.410  | ng    | # 21   |
| 57) Fluorene                   | 10.44 | 166  | 21295    | 4.527  | ng    | 99     |
| 70) Phenanthrene               | 11.40 | 178  | 276785   | 41.741 | ng    | 99     |
| 71) Anthracene                 | 11.46 | 178  | 66267    | 9.850  | ng    | 97     |
| 72) Carbazole                  | 11.61 | 167  | 21599    | 3.480  | ng    | 100    |
| 74) Fluoranthene               | 12.60 | 202  | 403658   | 57.439 | ng    | 94     |
| 77) Pyrene                     | 12.83 | 202  | 369463   | 45.242 | ng    | 98     |
| 80) Benzo(a)anthracene         | 14.02 | 228  | 174151   | 25.244 | ng    | 99     |
| 82) Chrysene                   | 14.05 | 228  | 160367   | 24.005 | ng    | 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 16.97 | 276  | 51959    | 9.616  | ng    | # 89   |
| 87) Benzo(b)fluoranthene       | 15.07 | 252  | 193629   | 37.531 | ng    | 98     |
| 88) Benzo(k)fluoranthene       | 15.17 | 252  | 22122    | 4.538  | ng    | 96     |
| 89) Benzo(a)pyrene             | 15.43 | 252  | 97409    | 21.297 | ng    | 95     |
| 90) Dibenzo(a,h)anthracene     | 16.99 | 278  | 14062    | 3.759  | ng    | 92     |
| 91) Benzo(g,h,i)perylene       | 17.66 | 276  | 12045    | 3.290  | ng    | 96     |

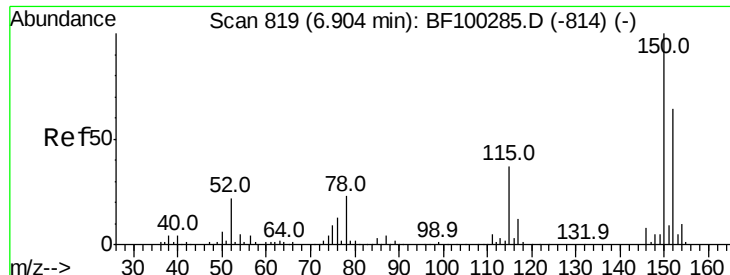
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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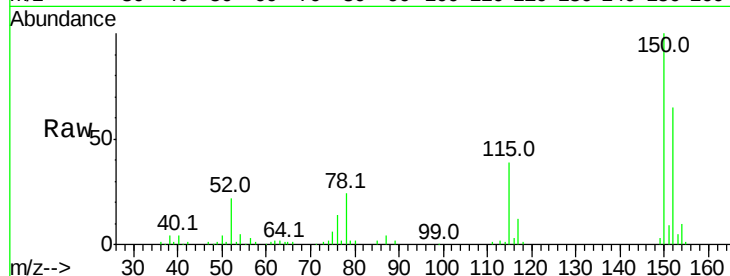


#1

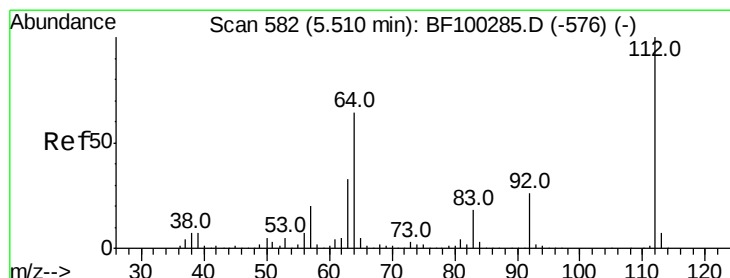
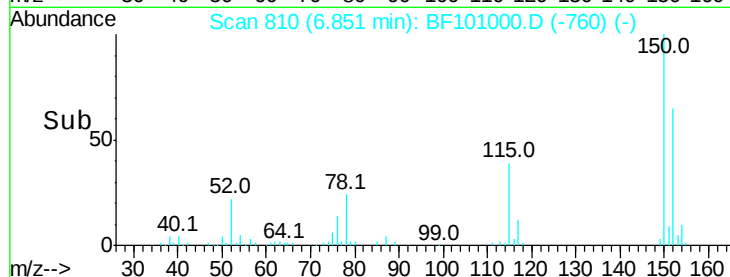
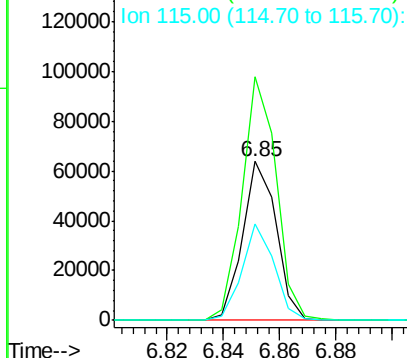
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 810  
Delta R.T. -0.01 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 52927  
Ion Ratio Lower Upper  
152 100  
150 153.1 124.6 186.8  
115 60.5 50.1 75.1



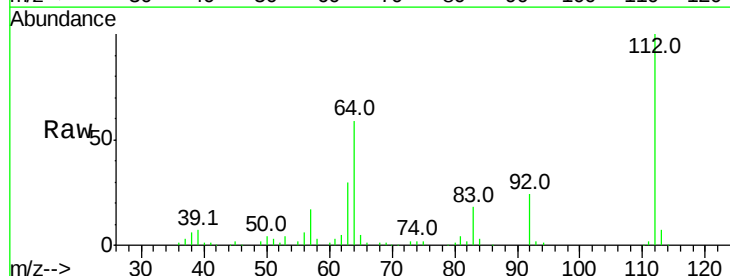
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



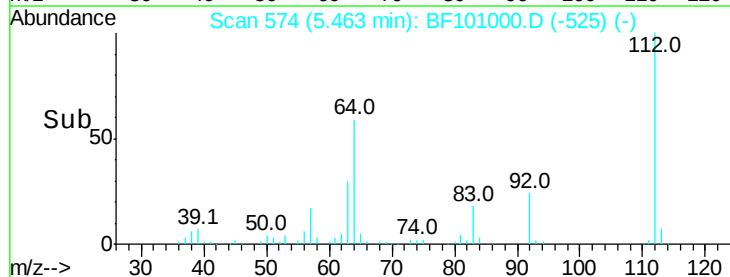
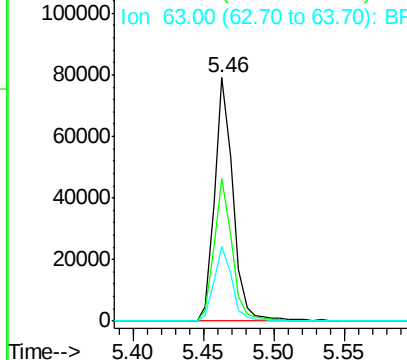
#5

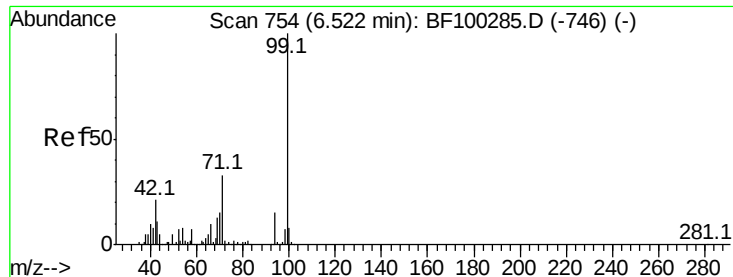
2-Fluorophenol  
Concen: 21.696 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.01 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

Tgt Ion:112 Resp: 71636  
Ion Ratio Lower Upper  
112 100  
64 58.7 47.9 71.9  
63 30.4 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: 20.796 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.02 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

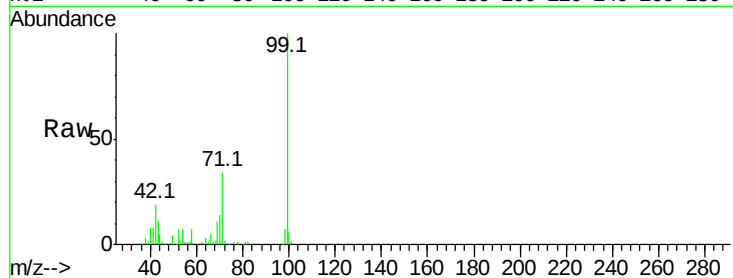
Tot Ion: 99 Resp: 84673

Ion Ratio Lower Upper

99 100

42 19.5 14.5 21.7

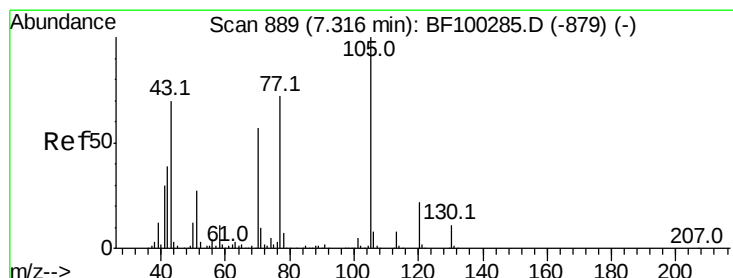
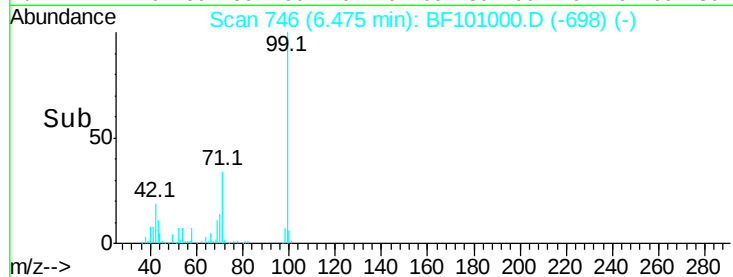
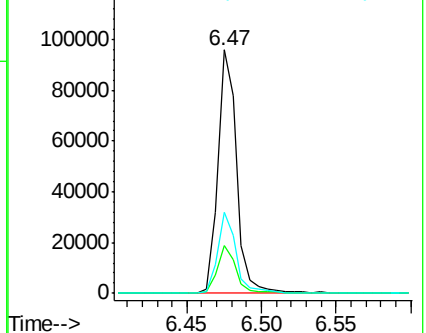
71 33.5 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.070 ng

RT: 7.41 min Scan# 905

Delta R.T. 0.14 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Tgt Ion: 70 Resp: 5845

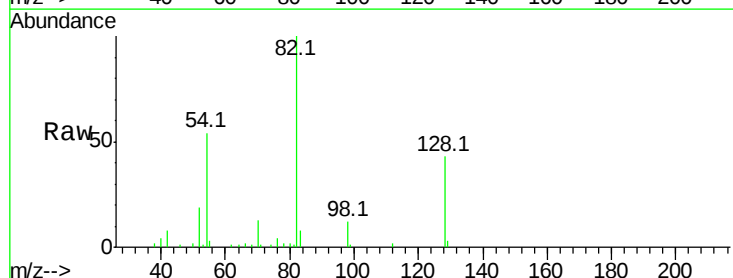
Ion Ratio Lower Upper

70 100

42 63.1 47.5 71.3

101 0.0 7.4 11.2#

130 0.0 16.6 25.0#

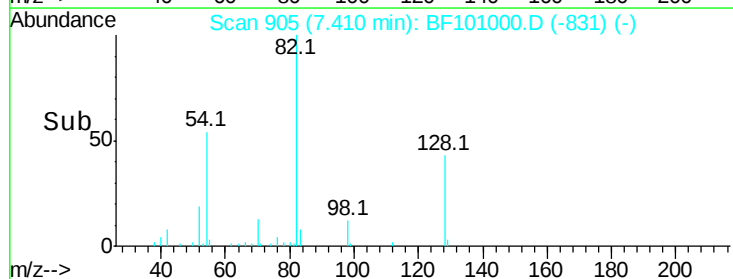
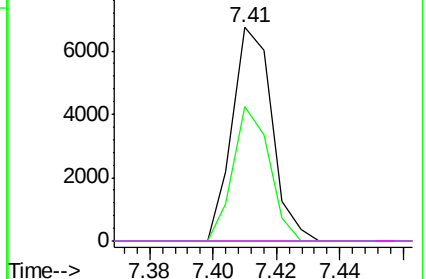


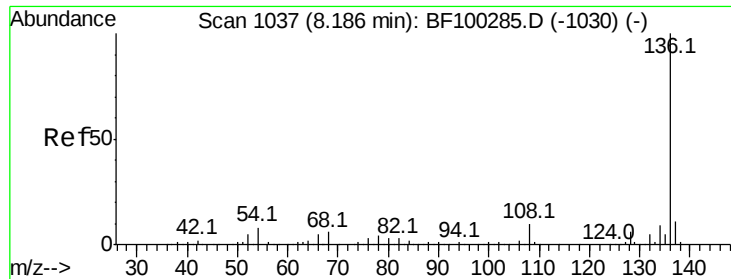
Abundance Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1

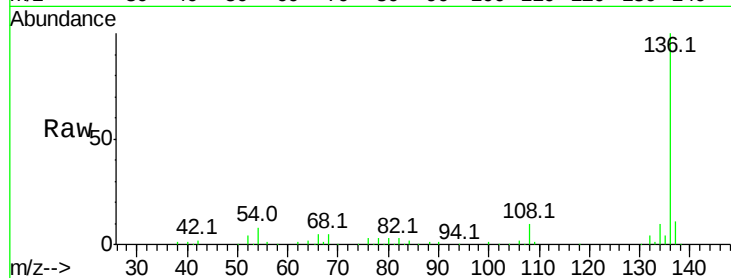




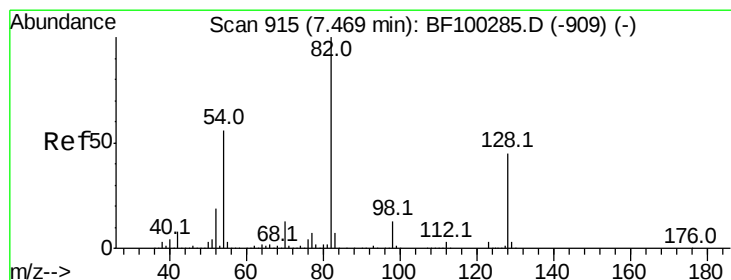
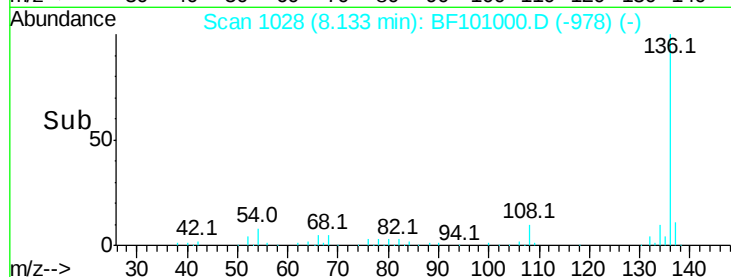
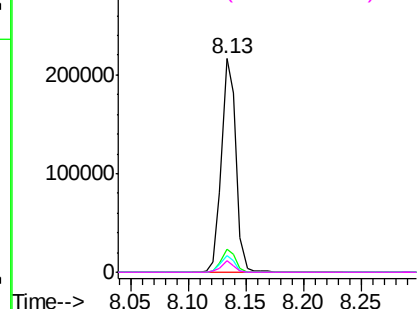
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1028  
Delta R.T. -0.01 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 189466 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.7  | 8.9   | 13.3   |
| 54       | 7.8   | 6.6   | 9.8    |
| 68       | 5.2   | 5.0   | 7.4    |

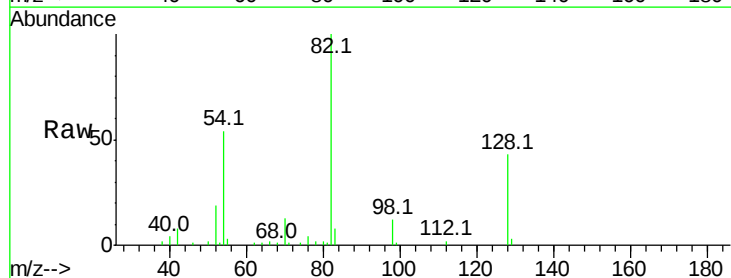


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

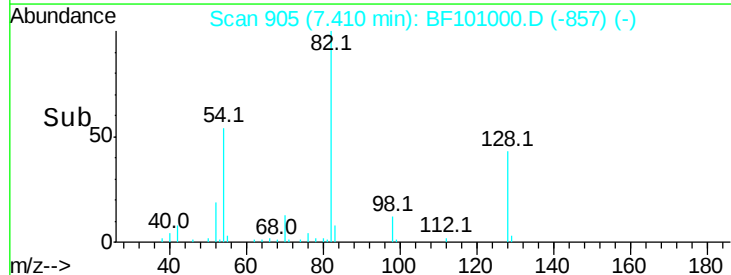
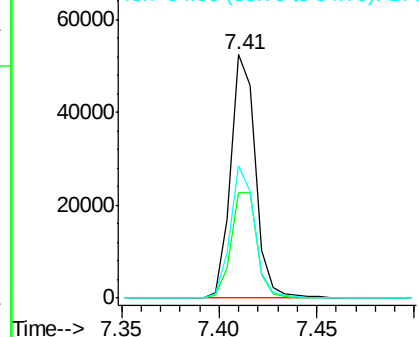


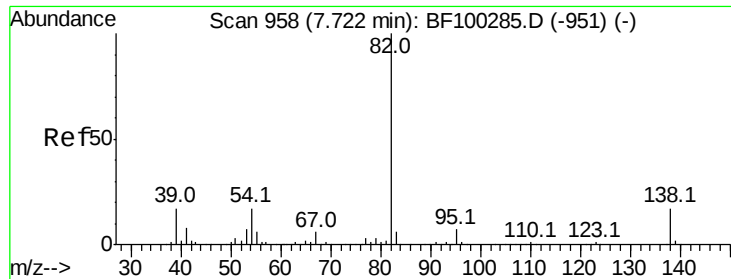
#23  
Nitrobenzene-d5  
Concen: 16.196 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.02 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 46414 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.1  | 36.1  | 54.1  |
| 54       | 54.4  | 41.4  | 62.2  |



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





#25

Isophorone

Concen: 7.709 ng

RT: 7.41 min Scan# 905

Delta R.T. -0.27 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

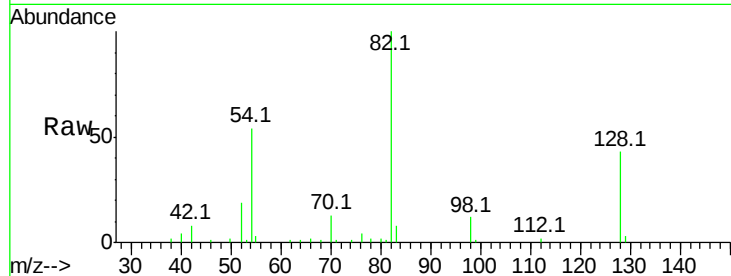
Tot Ion: 82 Resp: 46423

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

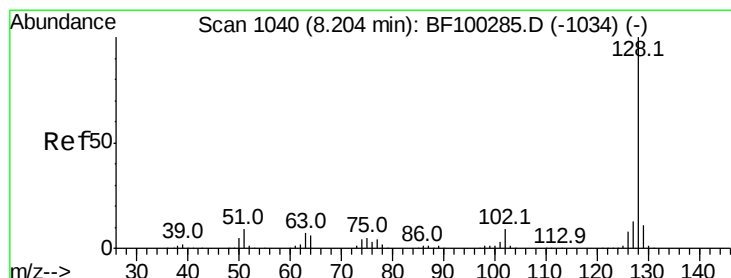
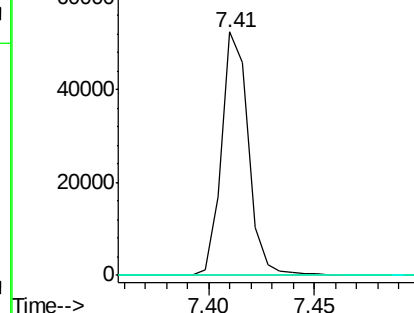
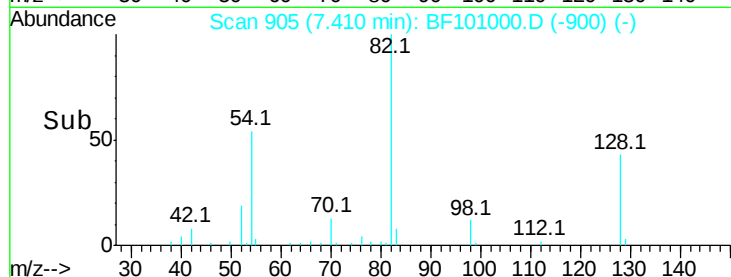
138 0.0 14.9 22.3#



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



#31

Naphthalene

Concen: 2.277 ng

RT: 8.16 min Scan# 1032

Delta R.T. -0.01 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

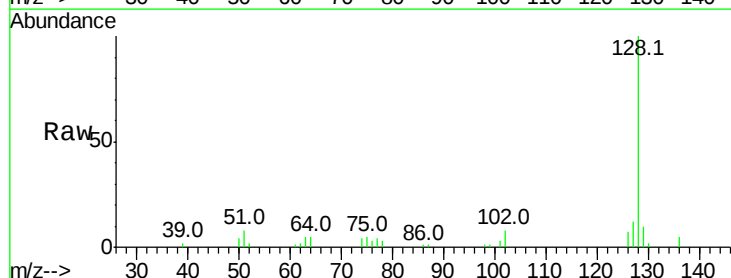
Tgt Ion: 128 Resp: 20783

Ion Ratio Lower Upper

128 100

129 10.0 8.8 13.2

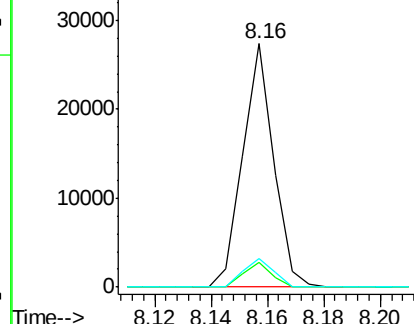
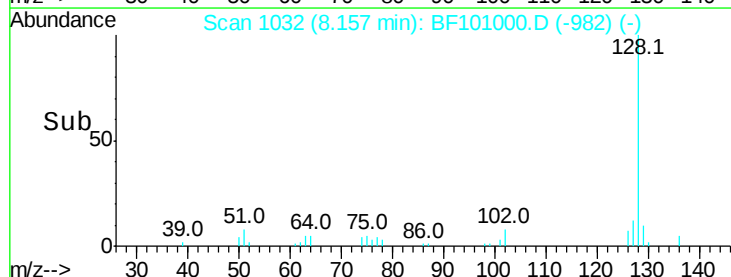
127 11.9 10.9 16.3

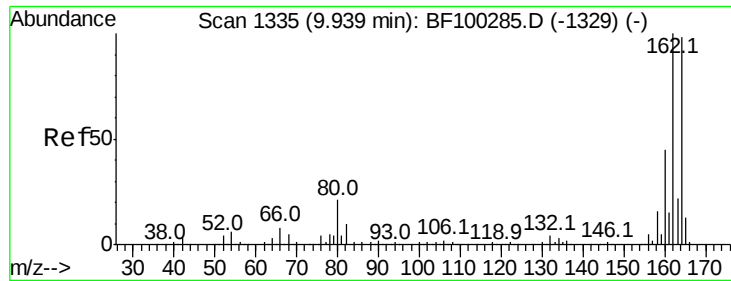


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

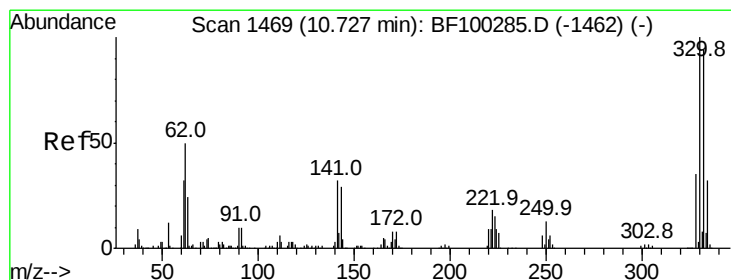
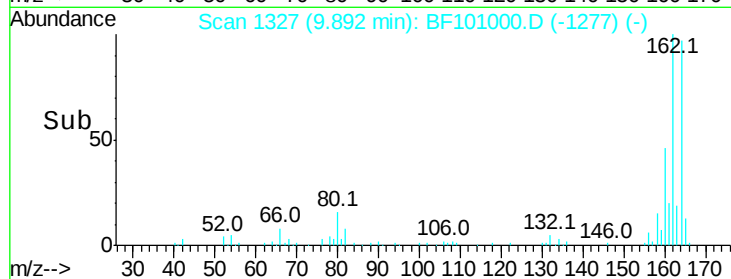
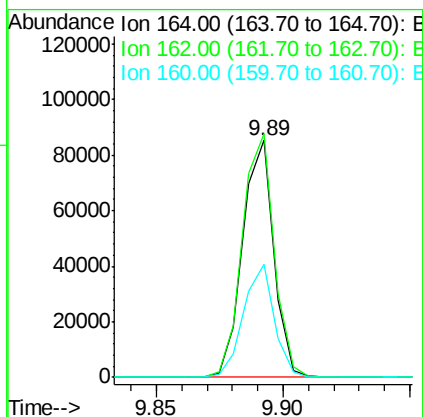
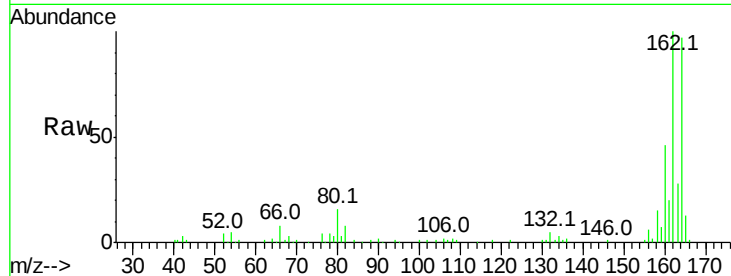




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.89 min Scan# 1327  
 Delta R.T. -0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

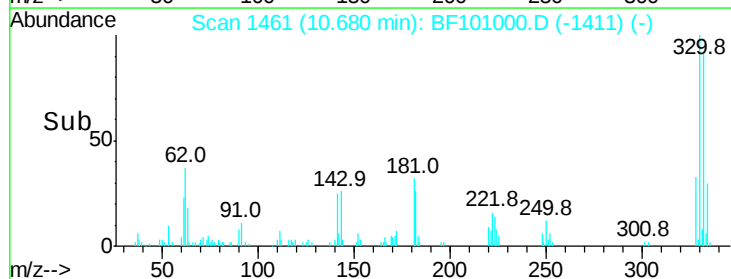
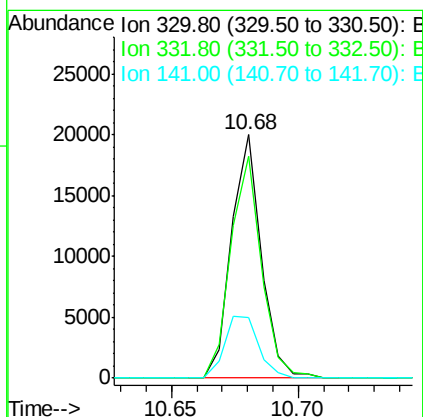
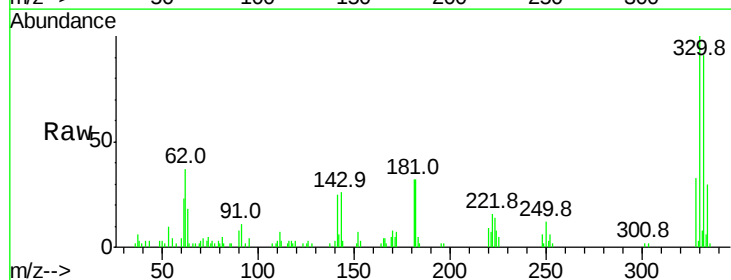
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 BNA\_F  
 ClientSampleId :

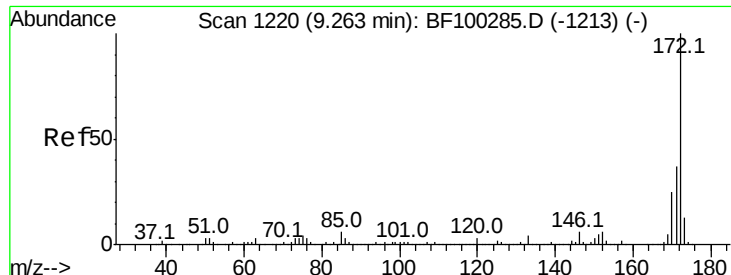
Tot Ion:164 Resp: 72439  
 Ion Ratio Lower Upper  
 164 100  
 162 102.7 86.1 129.1  
 160 47.7 38.3 57.5



#41  
 2,4,6-Tribromophenol  
 Concen: 22.094 ng  
 RT: 10.68 min Scan# 1461  
 Delta R.T. -0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

Tgt Ion:330 Resp: 16309  
 Ion Ratio Lower Upper  
 330 100  
 332 94.3 77.0 115.6  
 141 29.0 29.9 44.9#

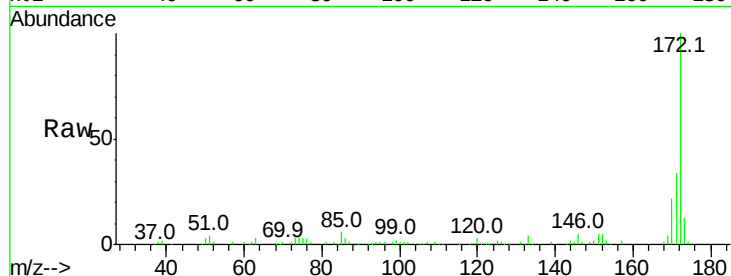




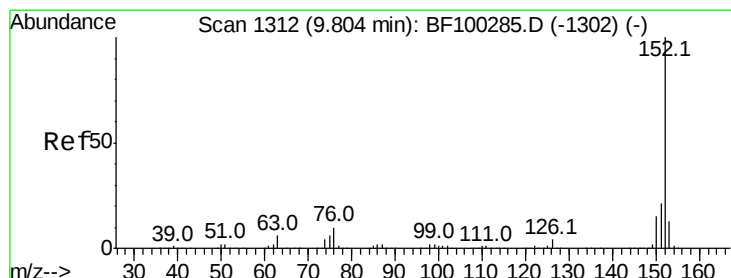
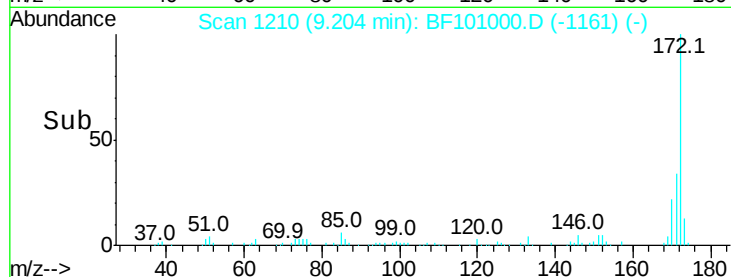
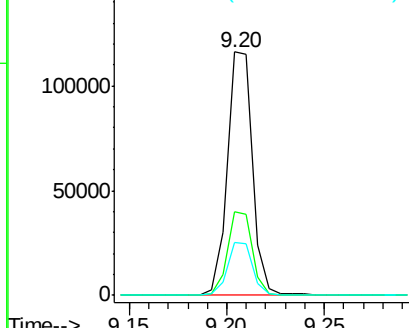
#44  
 2-Fluorobiphenyl  
 Concen: 21.795 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.4  | 29.7  | 44.5  |
| 170     | 21.8  | 19.6  | 29.4  |

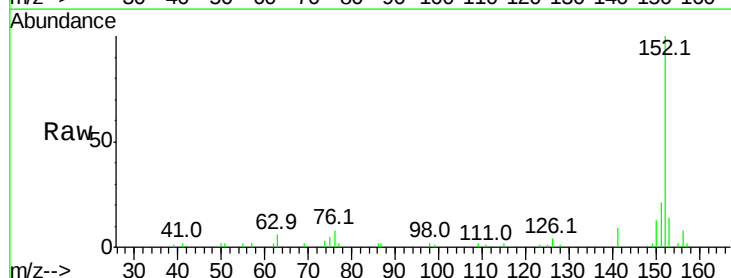


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

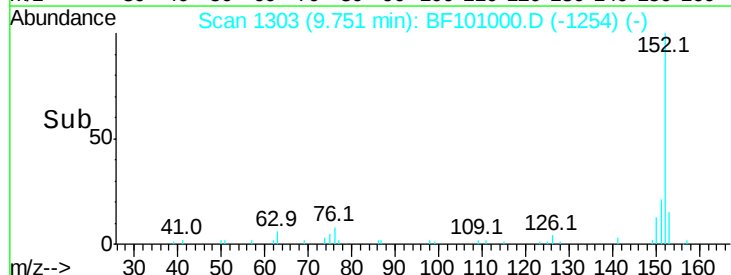
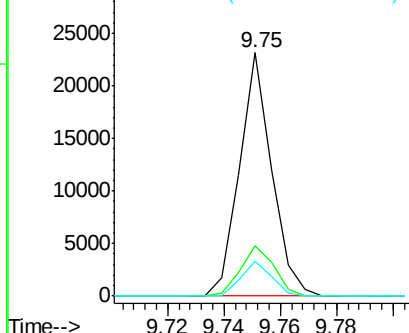


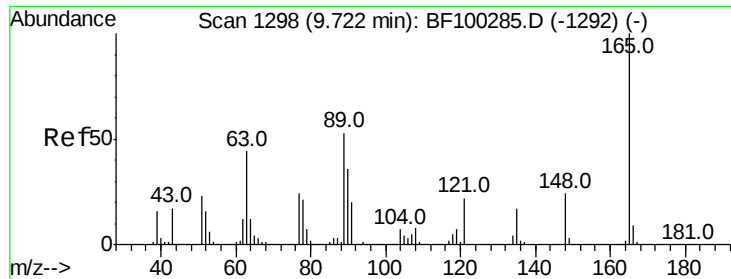
#48  
 Acenaphthylene  
 Concen: 2.440 ng  
 RT: 9.75 min Scan# 1303  
 Delta R.T. -0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.6  | 16.3  | 24.5  |
| 153     | 14.4  | 10.7  | 16.1  |



Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 151.00 (150.70 to 151.70): E  
 Ion 153.00 (152.70 to 153.70): E

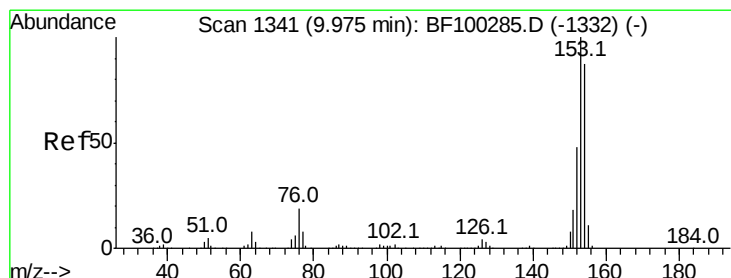
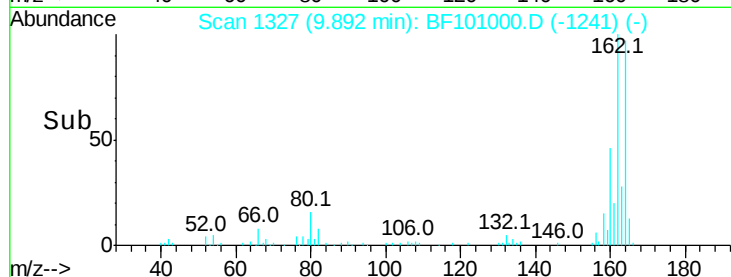
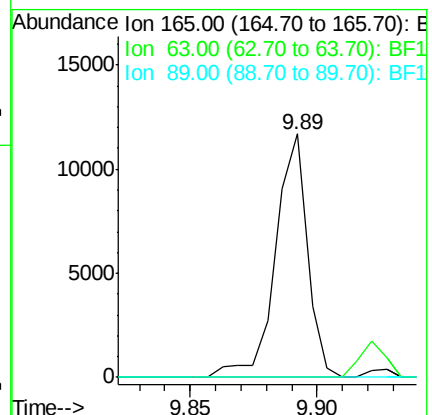
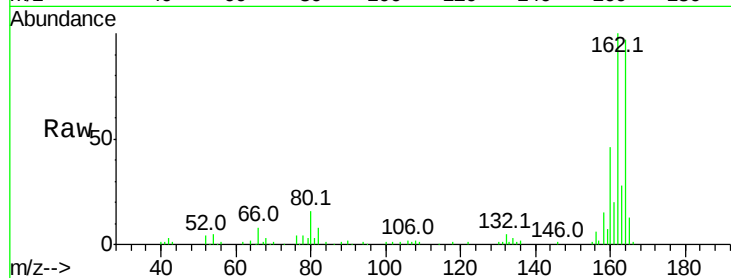




#50  
2,6-Dinitrotoluene  
Concen: 9.348 ng  
RT: 9.89 min Scan# 1327  
Delta R.T. 0.21 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

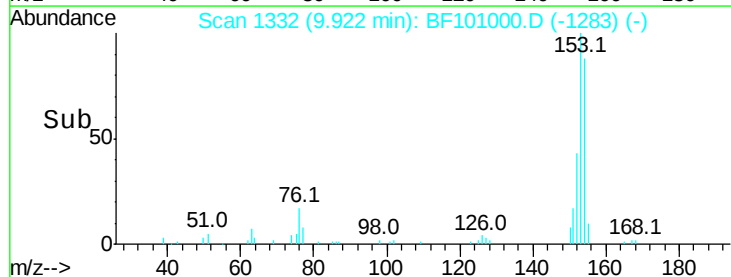
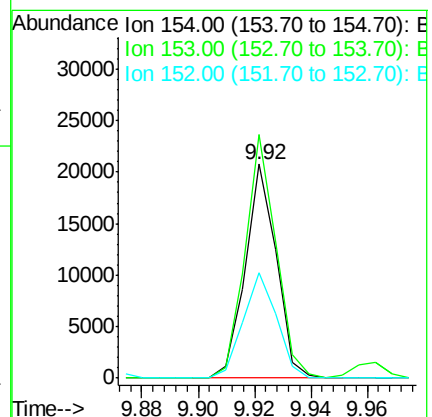
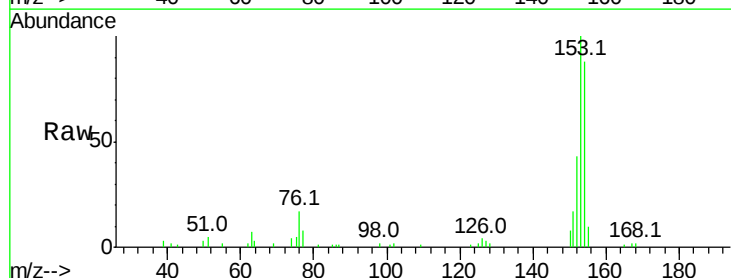
Instrument :  
BNA\_F  
ClientSampleId :

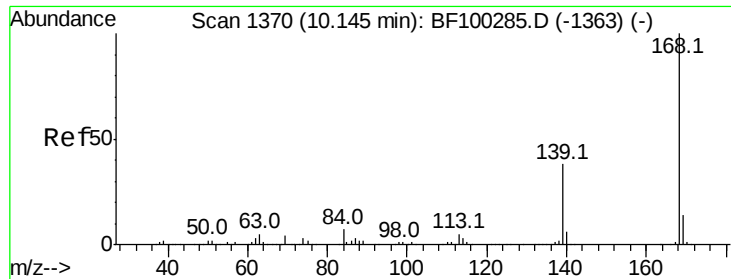
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



#51  
Acenaphthene  
Concen: 3.457 ng  
RT: 9.92 min Scan# 1332  
Delta R.T. -0.01 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 113.7 | 91.2  | 136.8 |
| 152     | 49.1  | 43.8  | 65.8  |





#54

Dibenzofuran

Concen: 2.304 ng

RT: 10.09 min Scan# 1361

Delta R.T. -0.01 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

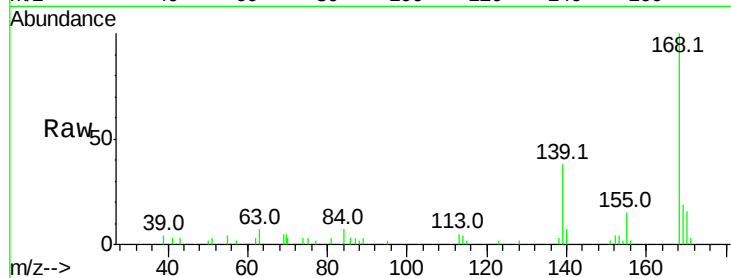
Tot Ion:168 Resp: 14793

Ion Ratio Lower Upper

168 100

139 37.7 30.1 45.1

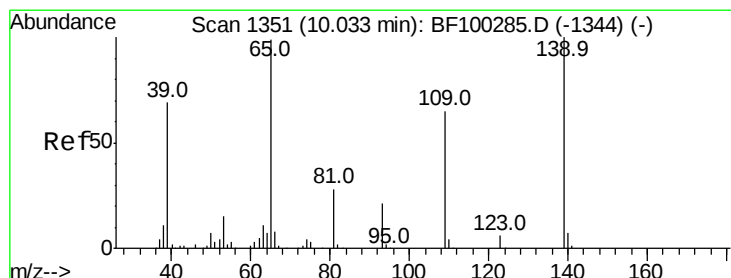
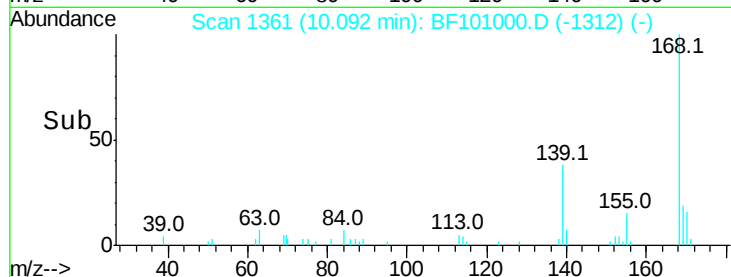
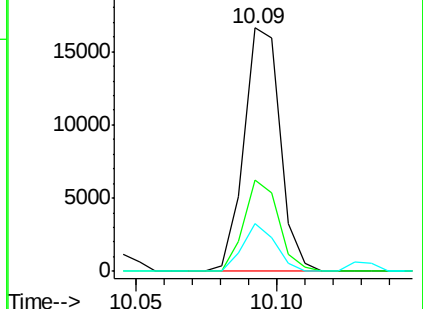
169 19.5 10.9 16.3#



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 5.102 ng

RT: 10.09 min Scan# 1361

Delta R.T. 0.08 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

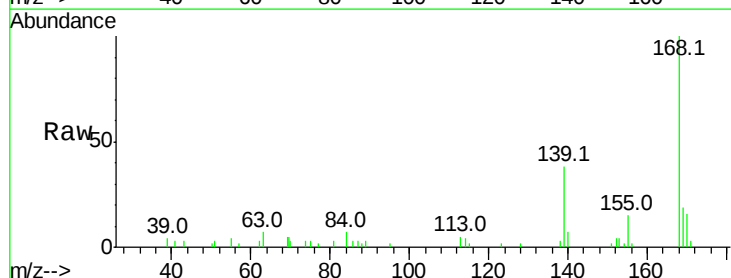
Tgt Ion:139 Resp: 5356

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

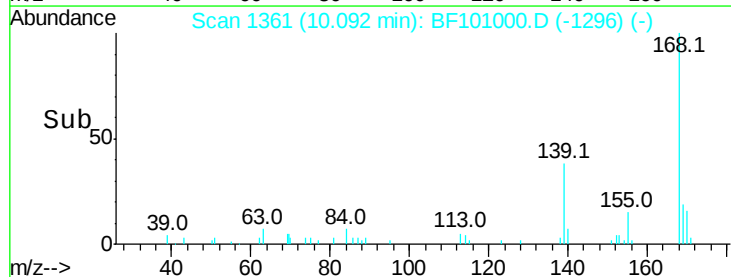
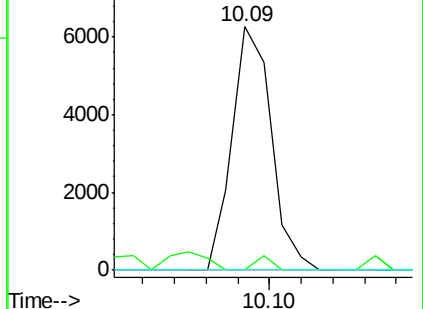
65 0.0 72.6 112.6#

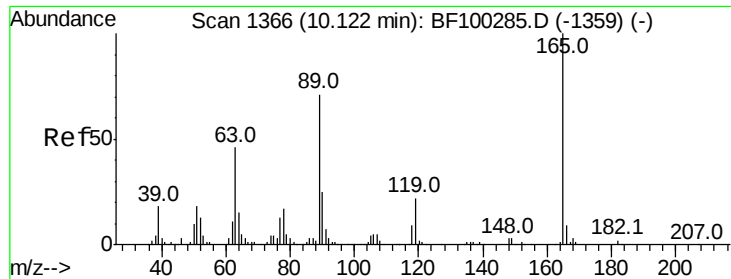


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

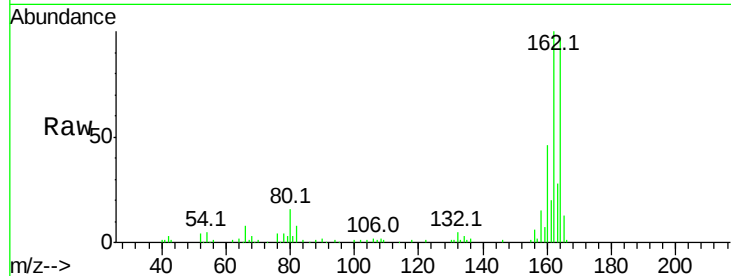




#56  
2,4-Dinitrotoluene  
Concen: 7.410 ng  
RT: 9.89 min Scan# 1327  
Delta R.T. -0.19 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |       |
|-------------|-------|-------|
| Tot Ion:165 | Resp: | 10234 |
| Ion Ratio   | Lower | Upper |
| 165 100     |       |       |
| 63 0.0      | 36.4  | 54.6# |
| 89 0.0      | 57.8  | 86.6# |
| 182 0.0     | 1.6   | 2.4#  |

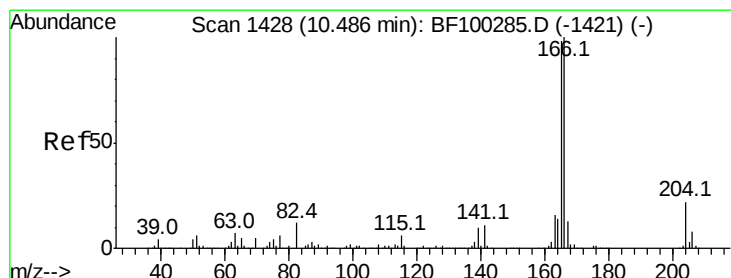
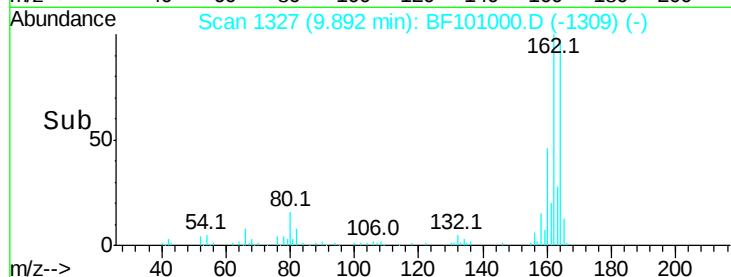
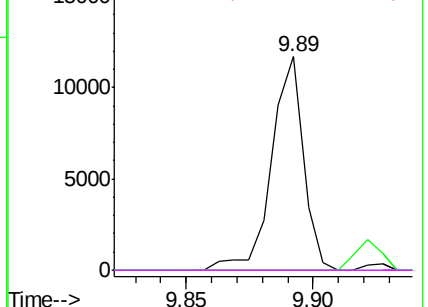


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

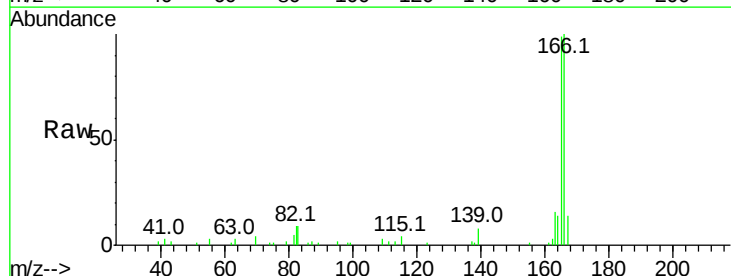
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#57  
Fluorene  
Concen: 4.527 ng  
RT: 10.44 min Scan# 1420  
Delta R.T. -0.01 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

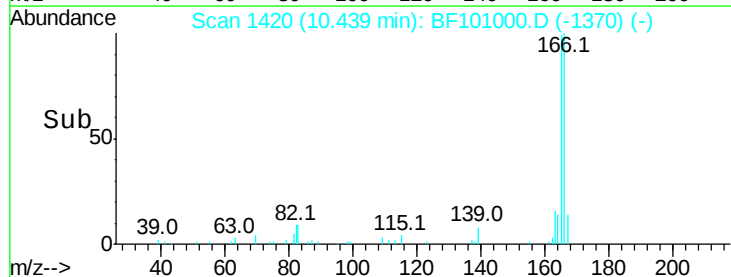
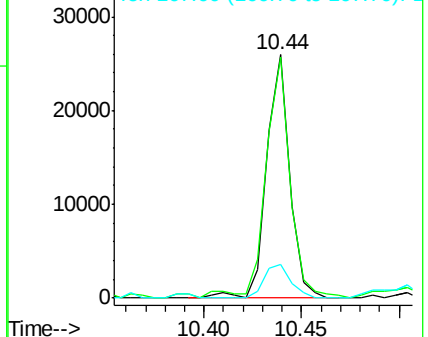
|             |       |       |
|-------------|-------|-------|
| Tgt Ion:166 | Resp: | 21295 |
| Ion Ratio   | Lower | Upper |
| 166 100     |       |       |
| 165 99.0    | 79.8  | 119.8 |
| 167 13.8    | 10.6  | 16.0  |

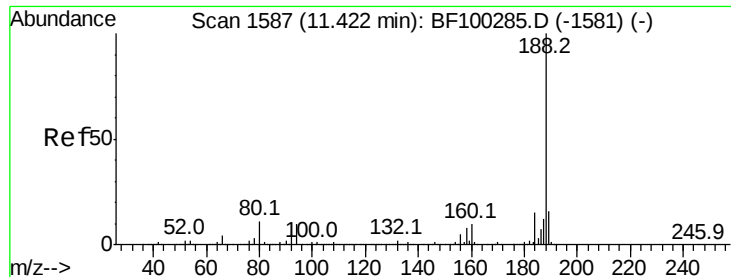


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

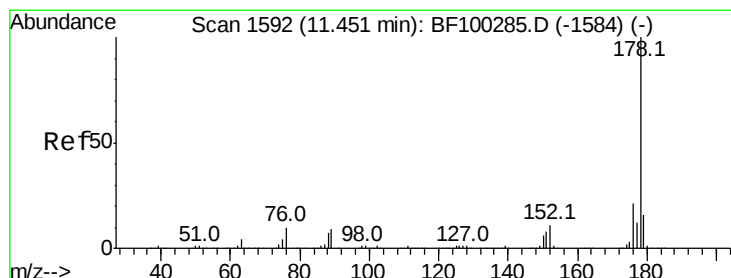
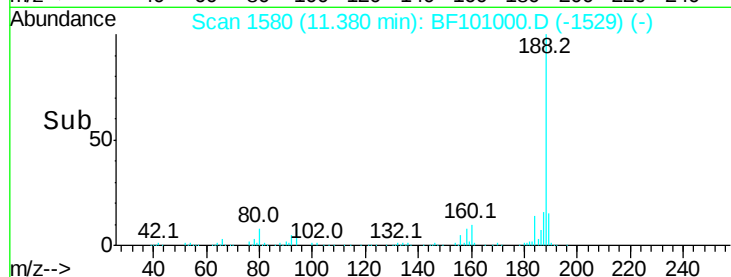
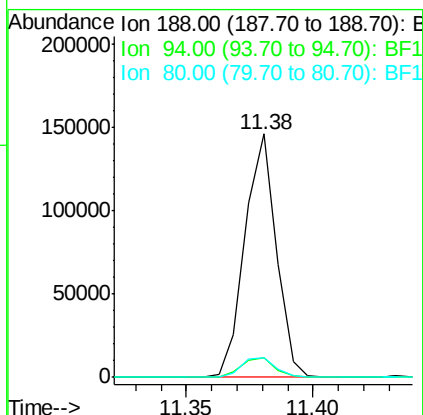
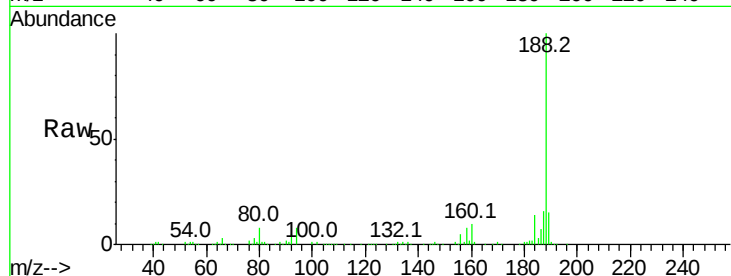




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.38 min Scan# 1580  
Delta R.T. -0.00 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

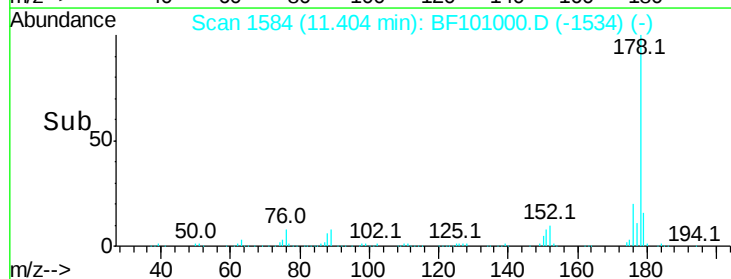
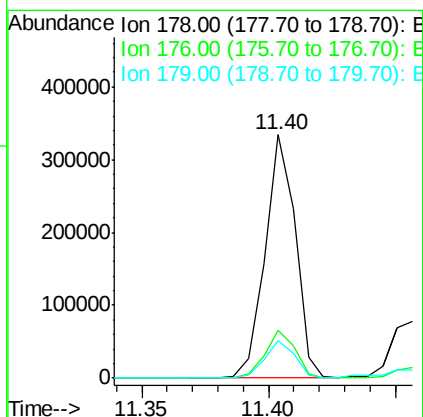
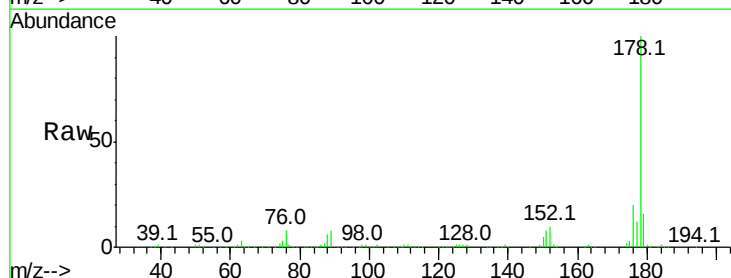
Instrument :  
BNA\_F  
ClientSampleId :

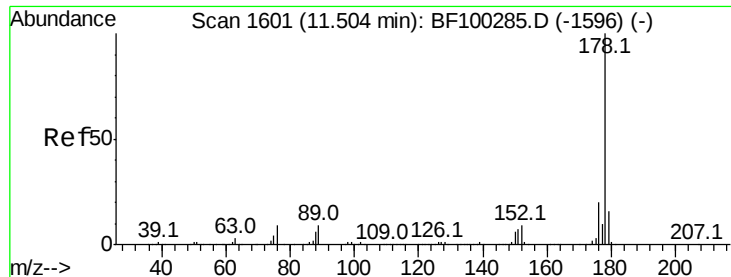
Tot Ion:188 Resp: 125942  
Ion Ratio Lower Upper  
188 100  
94 8.0 8.5 12.7#  
80 8.3 9.2 13.8#



#70  
Phenanthrene  
Concen: 41.741 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.01 min  
Lab File: BF101000.D  
Acq: 30 Nov 2017 2:35

Tgt Ion:178 Resp: 276785  
Ion Ratio Lower Upper  
178 100  
176 19.9 15.8 23.8  
179 15.5 13.0 19.6

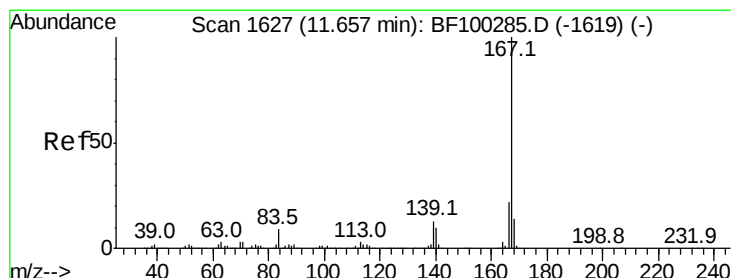
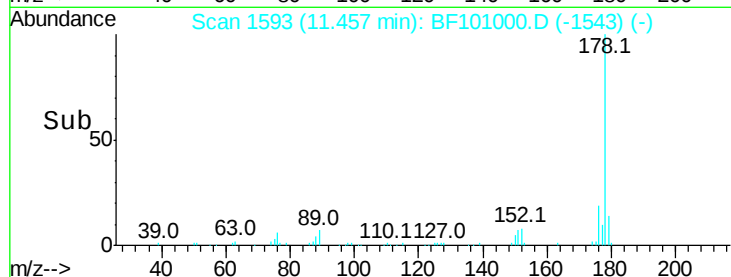
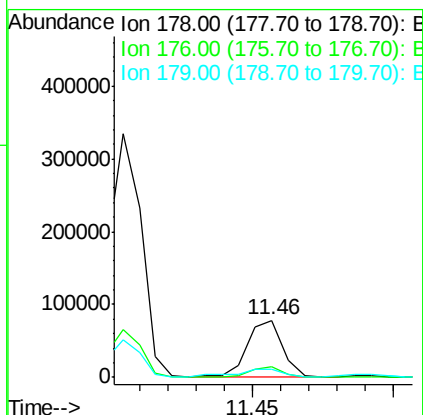
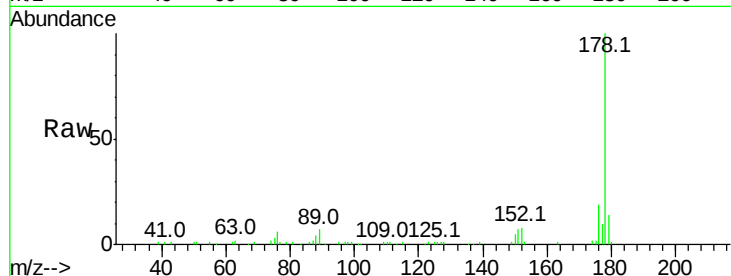




#71  
 Anthracene  
 Concen: 9.850 ng  
 RT: 11.46 min Scan# 1593  
 Delta R.T. -0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

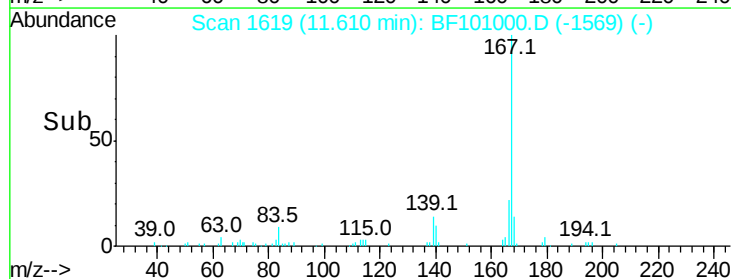
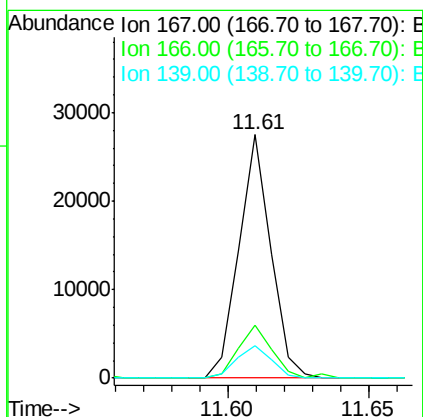
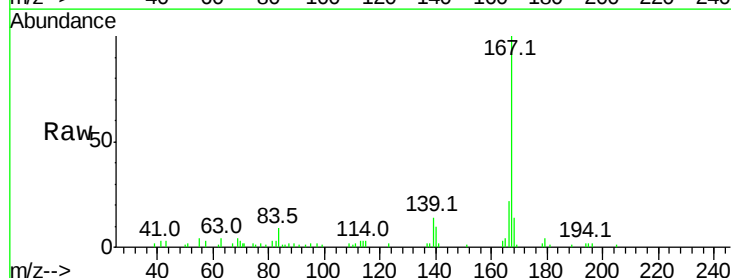
Instrument :  
 BNA\_F  
 ClientSampleId :

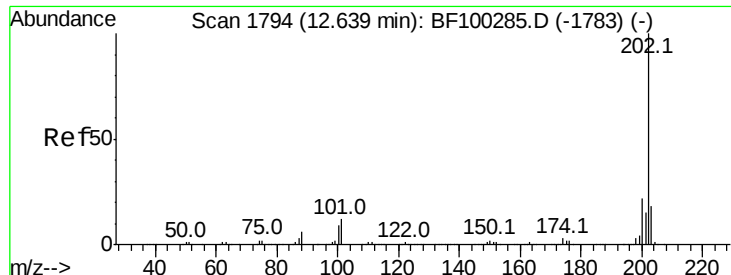
Tot Ion:178 Resp: 66267  
 Ion Ratio Lower Upper  
 178 100  
 176 18.7 15.4 23.2  
 179 13.7 12.6 19.0



#72  
 Carbazole  
 Concen: 3.480 ng  
 RT: 11.61 min Scan# 1619  
 Delta R.T. -0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

Tgt Ion:167 Resp: 21599  
 Ion Ratio Lower Upper  
 167 100  
 166 21.9 17.6 26.4  
 139 13.5 10.9 16.3





#74

Fluoranthene

Concen: 57.439 ng

RT: 12.60 min Scan# 1787

Delta R.T. -0.00 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

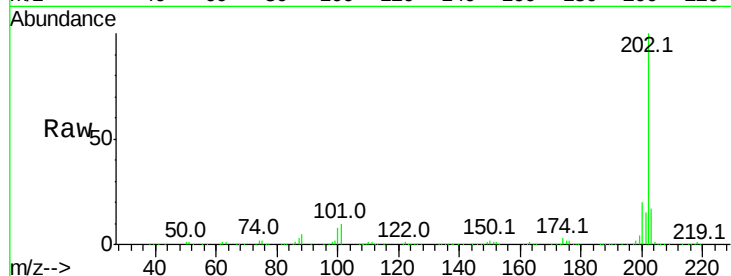
Tot Ion:202 Resp: 403658

Ion Ratio Lower Upper

202 100

101 10.3 0.0 34.1

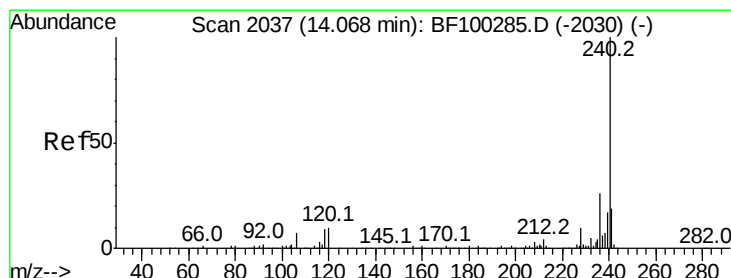
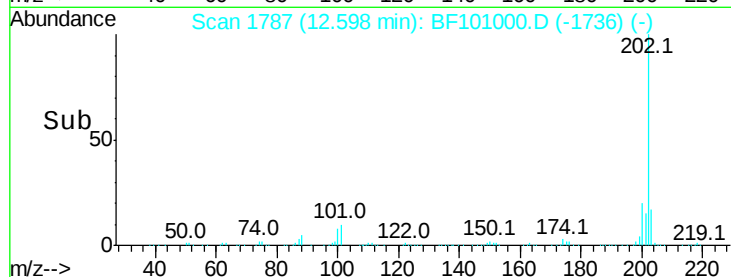
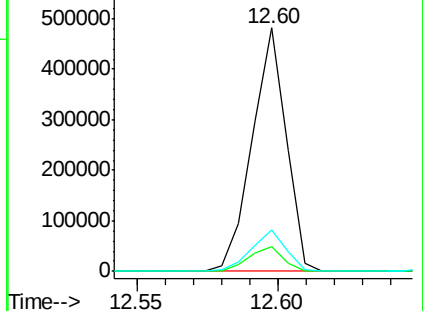
203 16.9 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2030

Delta R.T. -0.00 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

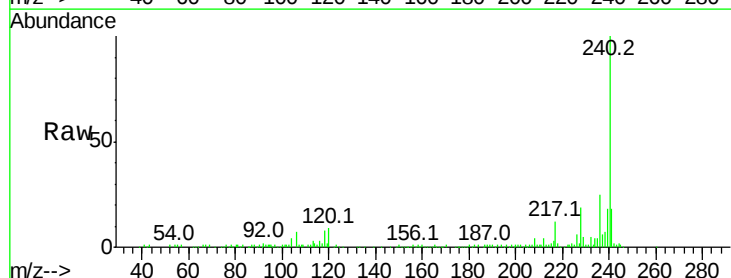
Tgt Ion:240 Resp: 114561

Ion Ratio Lower Upper

240 100

120 9.0 9.5 14.3#

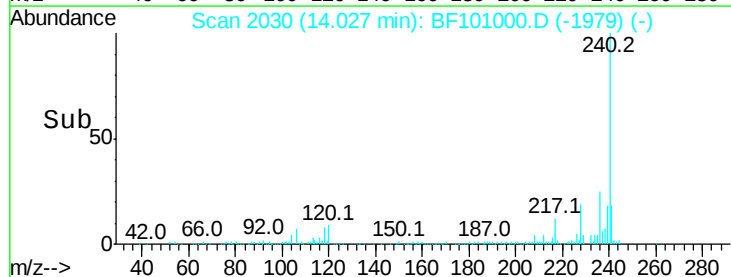
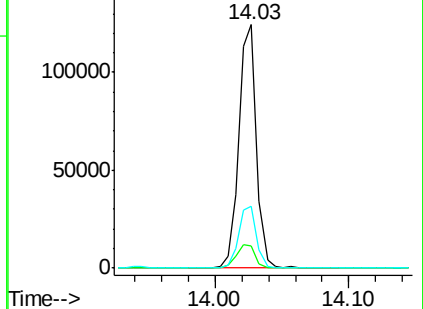
236 25.3 20.7 31.1

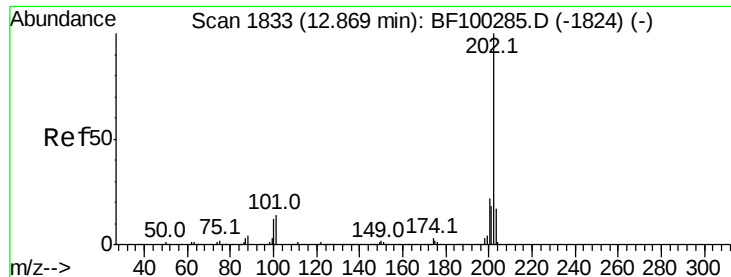


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 45.242 ng

RT: 12.83 min Scan# 1826

Delta R.T. -0.00 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

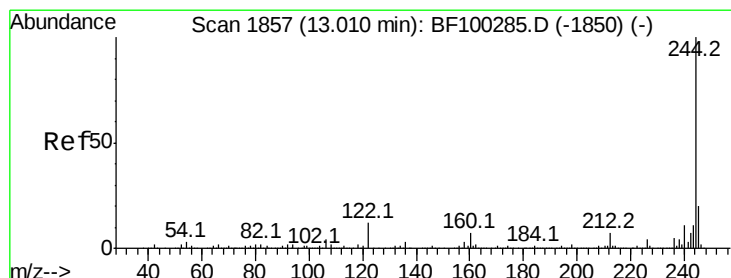
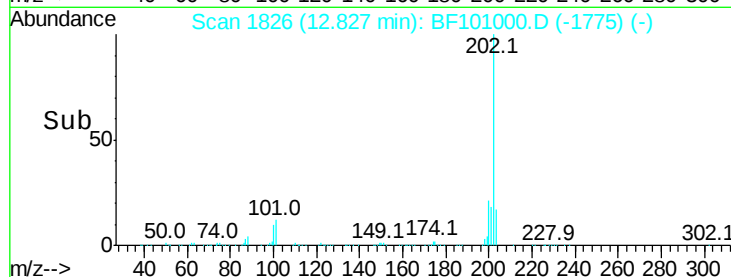
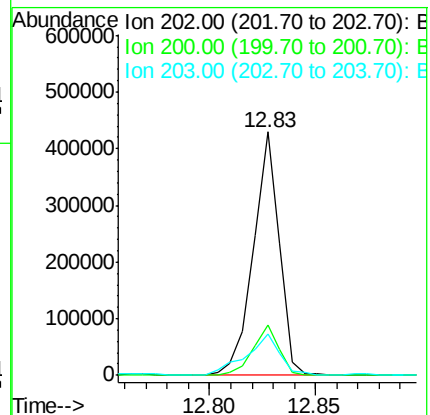
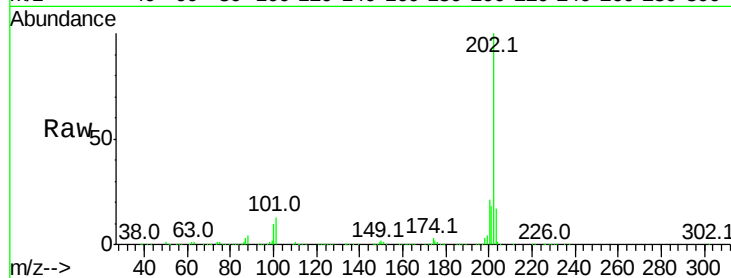
Tot Ion:202 Resp: 369463

Ion Ratio Lower Upper

202 100

200 20.7 17.4 26.2

203 17.0 14.3 21.5



#78

Terphenyl-d14

Concen: 17.554 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

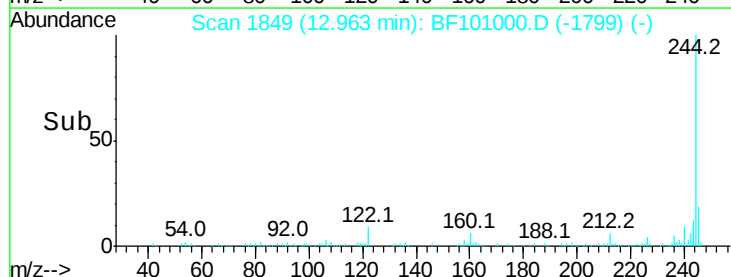
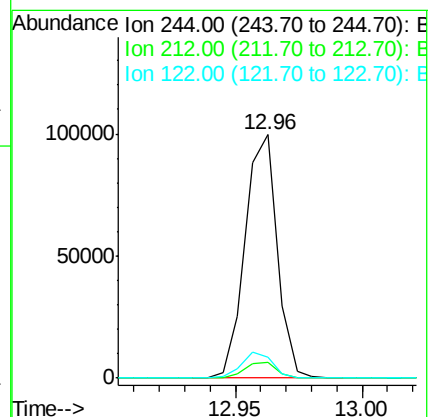
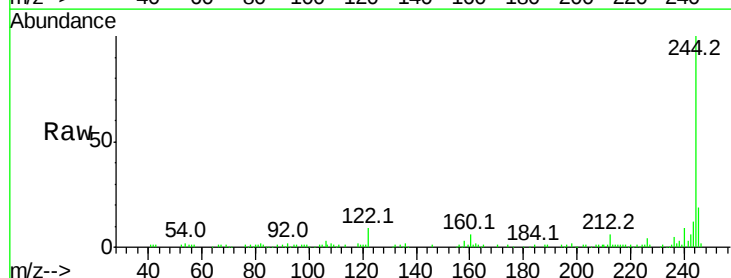
Tgt Ion:244 Resp: 87524

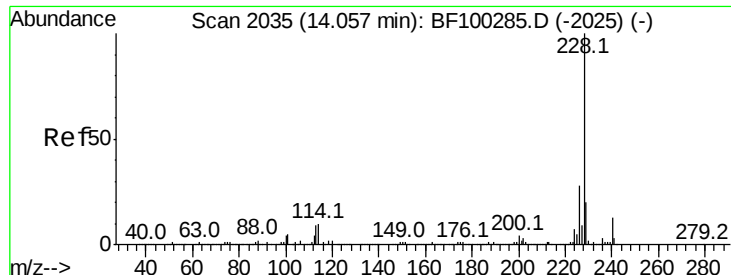
Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

122 8.7 11.0 16.4#





#80

Benzo(a)anthracene

Concen: 25.244 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.00 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

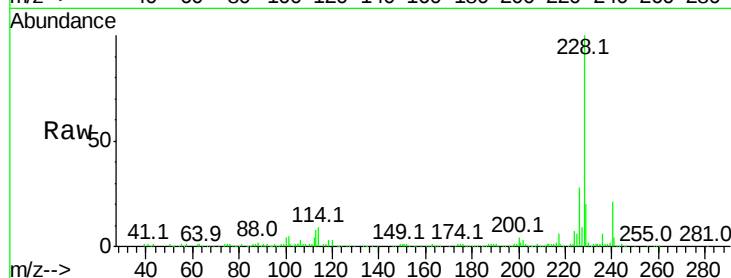
Tot Ion:228 Resp: 174151

Ion Ratio Lower Upper

228 100

226 28.2 22.6 33.8

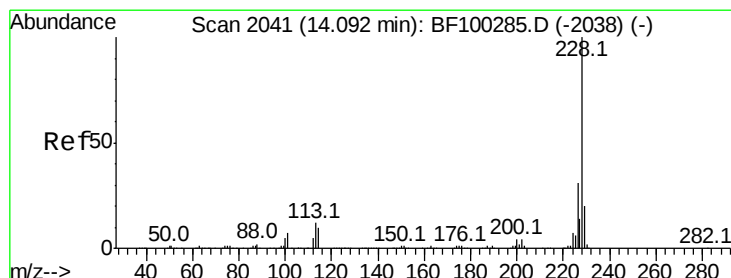
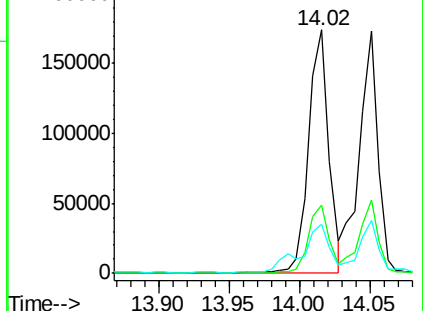
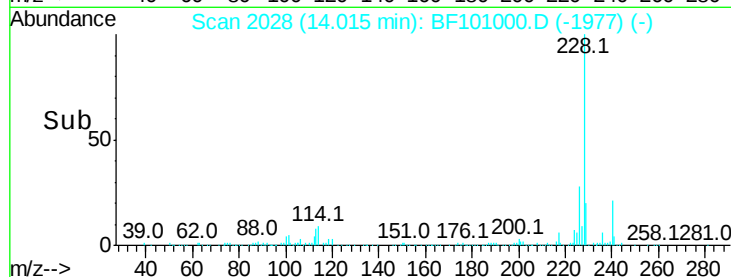
229 20.3 15.8 23.6



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



#82

Chrysene

Concen: 24.005 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

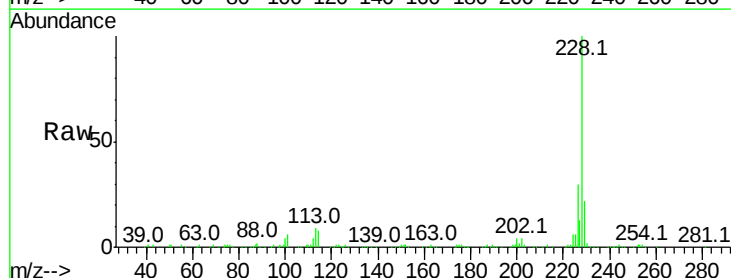
Tgt Ion:228 Resp: 160367

Ion Ratio Lower Upper

228 100

226 30.4 25.0 37.6

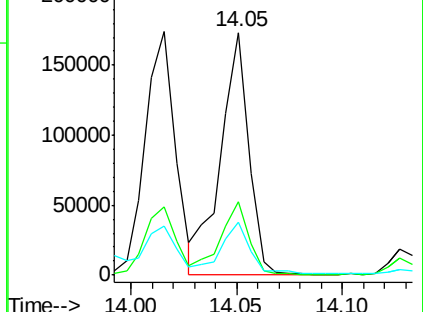
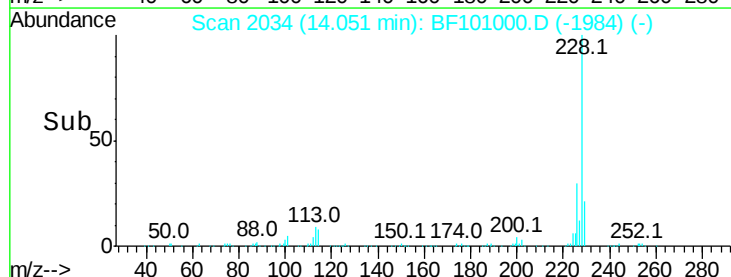
229 21.6 16.2 24.4

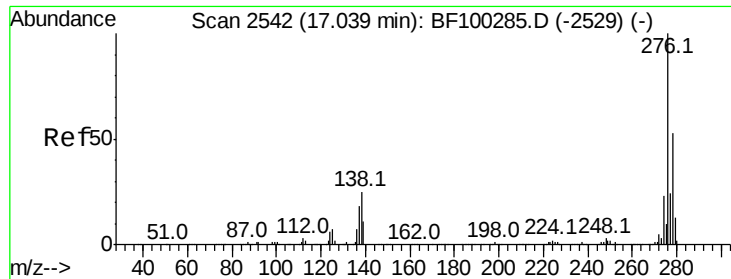


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

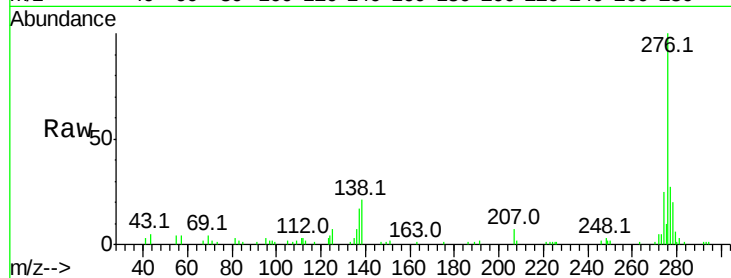




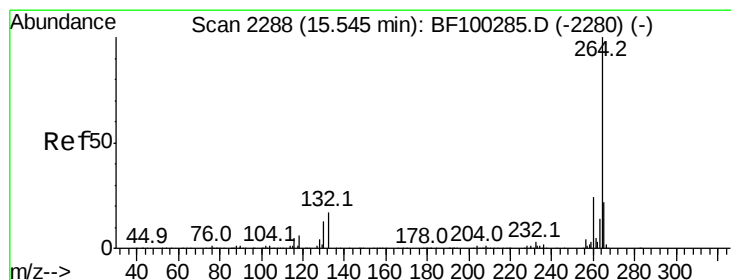
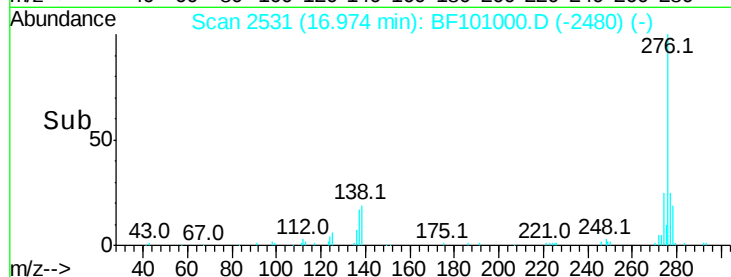
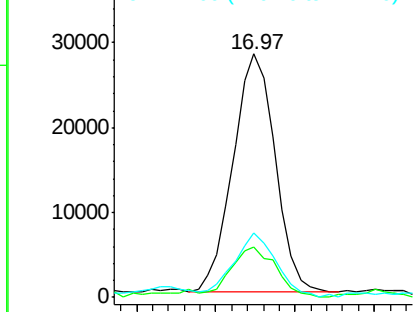
#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 9.616 ng  
 RT: 16.97 min Scan# 2531  
 Delta R.T. -0.00 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 22.5  | 25.0  | 37.6# |
| 277     | 27.3  | 20.1  | 30.1  |

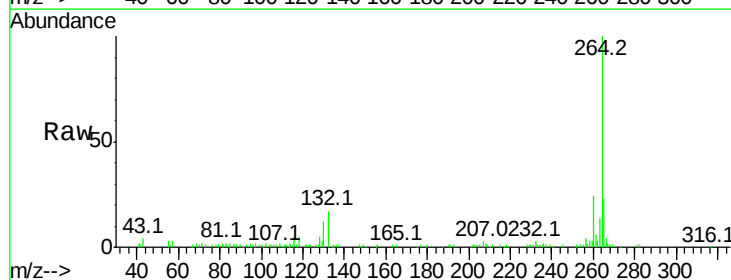


Abundance Ion 276.00 (275.70 to 276.70): E  
 Ion 138.00 (137.70 to 138.70): E  
 Ion 277.00 (276.70 to 277.70): E

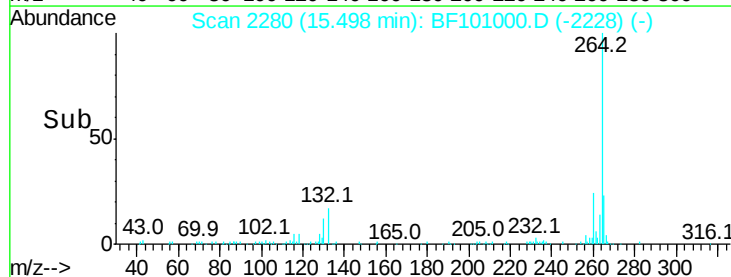
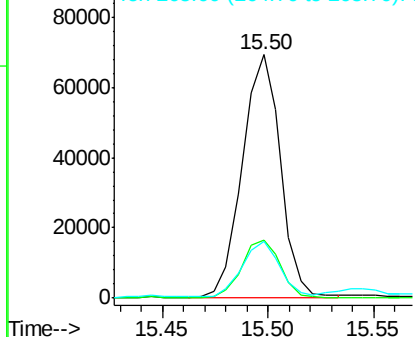


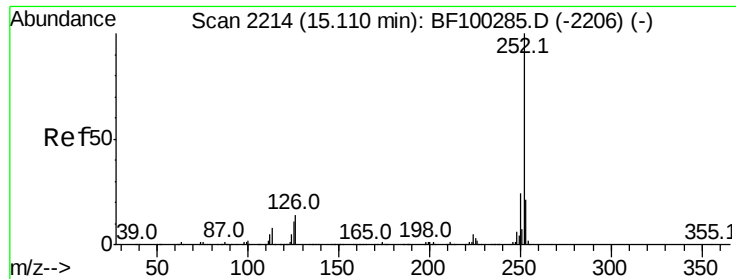
#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.50 min Scan# 2280  
 Delta R.T. 0.01 min  
 Lab File: BF101000.D  
 Acq: 30 Nov 2017 2:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.2  | 28.8  |
| 265     | 23.4  | 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: 37.531 ng

RT: 15.07 min Scan# 2207

Delta R.T. 0.01 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

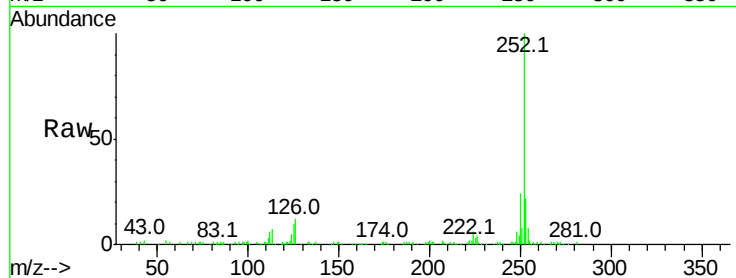
Tot Ion:252 Resp: 193629

Ion Ratio Lower Upper

252 100

253 22.1 17.0 25.6

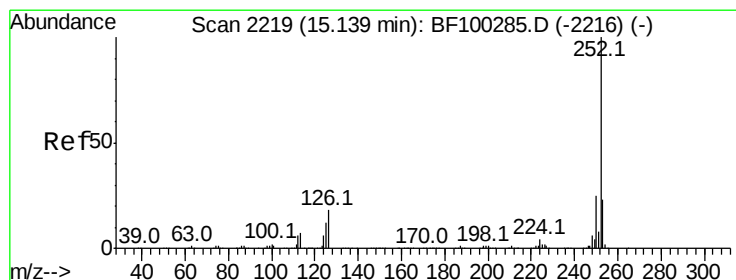
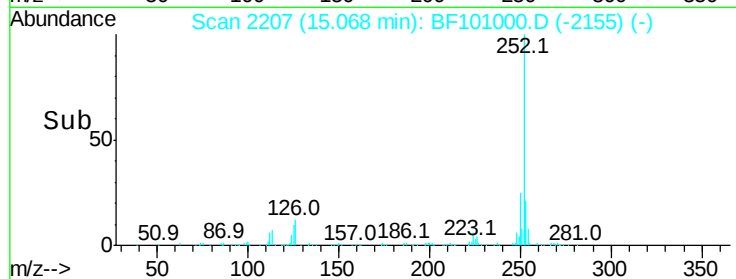
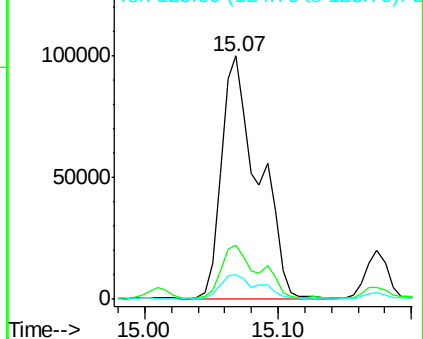
125 10.1 9.0 13.6



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: 4.538 ng

RT: 15.17 min Scan# 2225

Delta R.T. 0.08 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

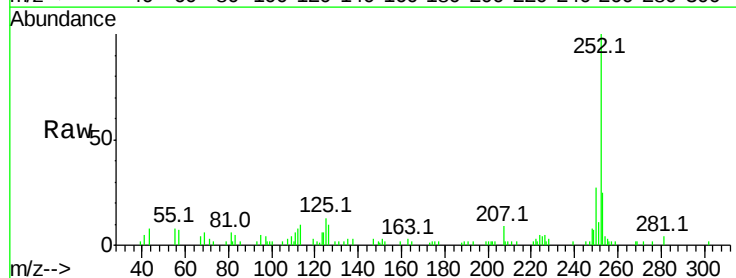
Tgt Ion:252 Resp: 22122

Ion Ratio Lower Upper

252 100

253 25.1 17.9 26.9

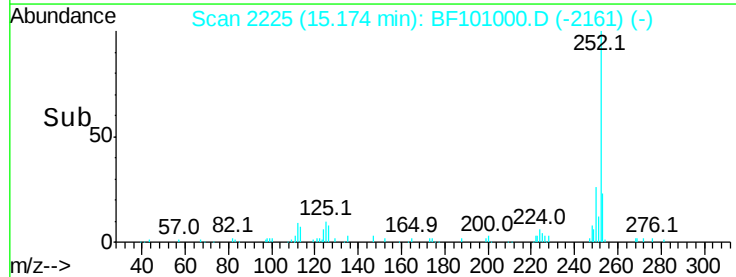
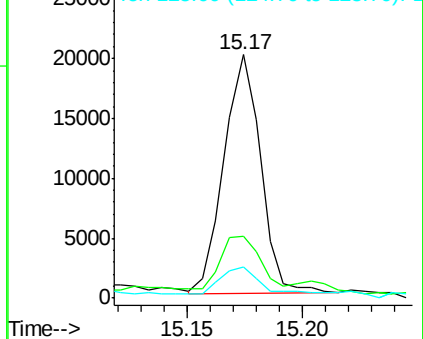
125 12.9 10.2 15.2

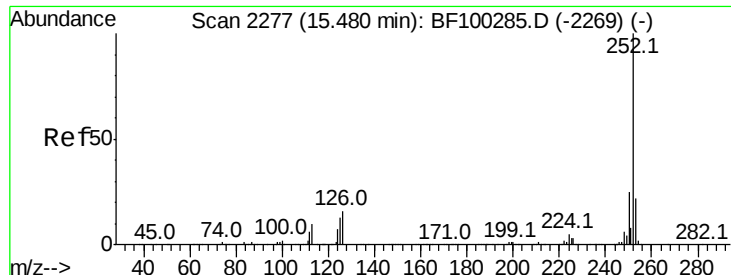


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 21.297 ng

RT: 15.43 min Scan# 2269

Delta R.T. -0.00 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

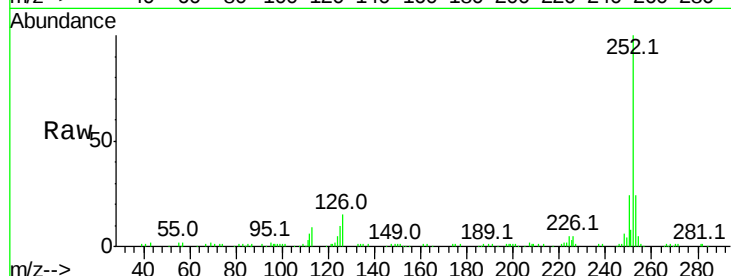
Tot Ion:252 Resp: 97409

Ion Ratio Lower Upper

252 100

253 23.6 17.1 25.7

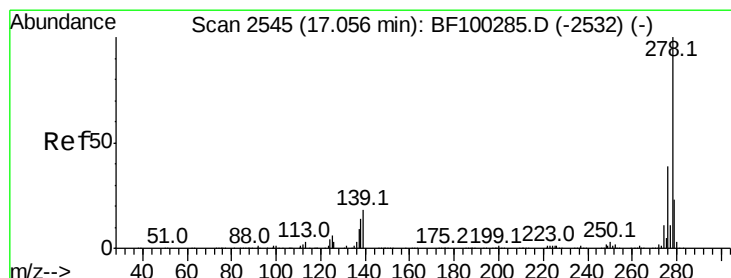
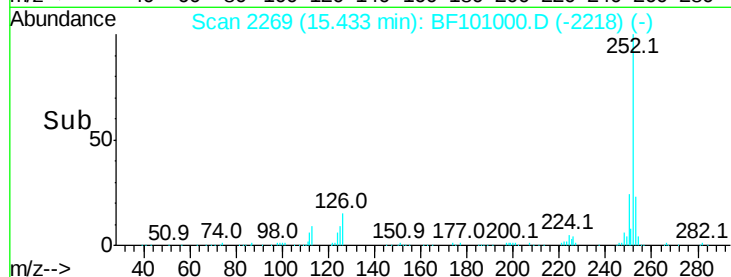
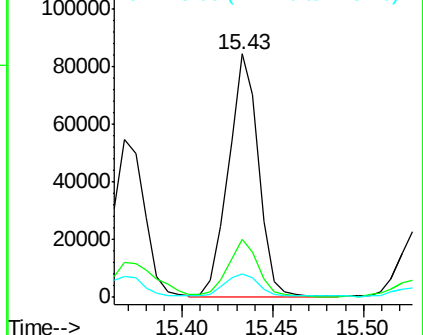
125 9.8 9.8 14.6



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



#90

Dibenzo(a,h)anthracene

Concen: 3.759 ng

RT: 16.99 min Scan# 2533

Delta R.T. -0.00 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

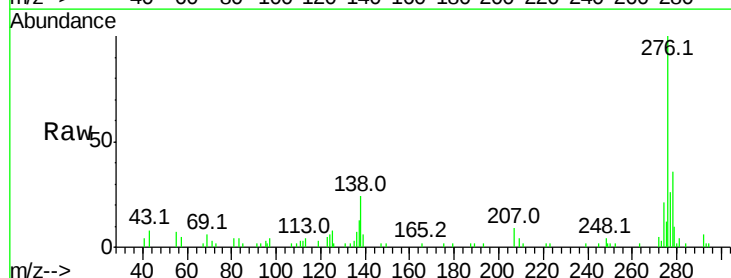
Tgt Ion:278 Resp: 14062

Ion Ratio Lower Upper

278 100

139 16.5 15.9 23.9

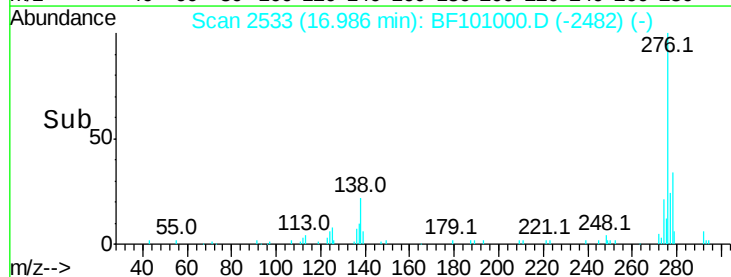
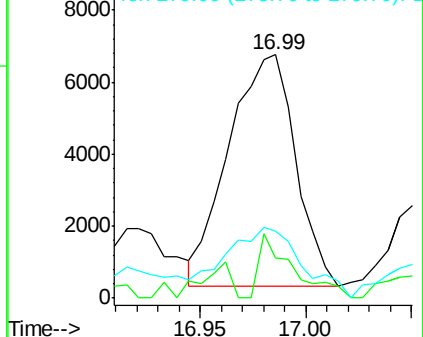
279 27.6 19.0 28.4

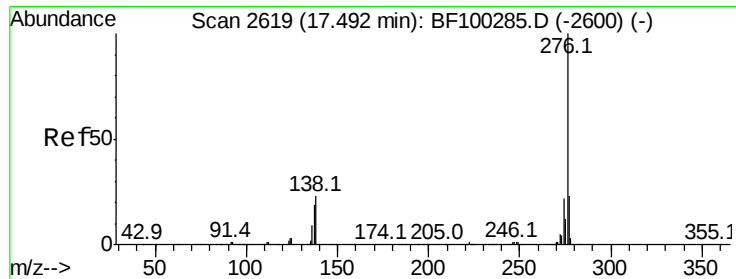


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 3.290 ng

RT: 17.66 min Scan# 2648

Delta R.T. 0.24 min

Lab File: BF101000.D

Acq: 30 Nov 2017 2:35

Instrument :

BNA\_F

ClientSampleId :

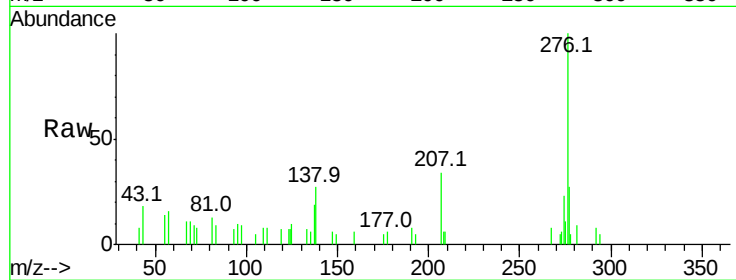
Tot Ion:276 Resp: 12045

Ion Ratio Lower Upper

276 100

277 26.7 17.9 26.9

138 27.2 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

