

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062518\  
 Data File : BF106783.D  
 Acq On : 25 Jun 2018 20:36  
 Operator : JU/SJ  
 Sample : J3595-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jun 26 02:09:49 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 25 18:50:17 2018  
 Response via : Initial Calibration

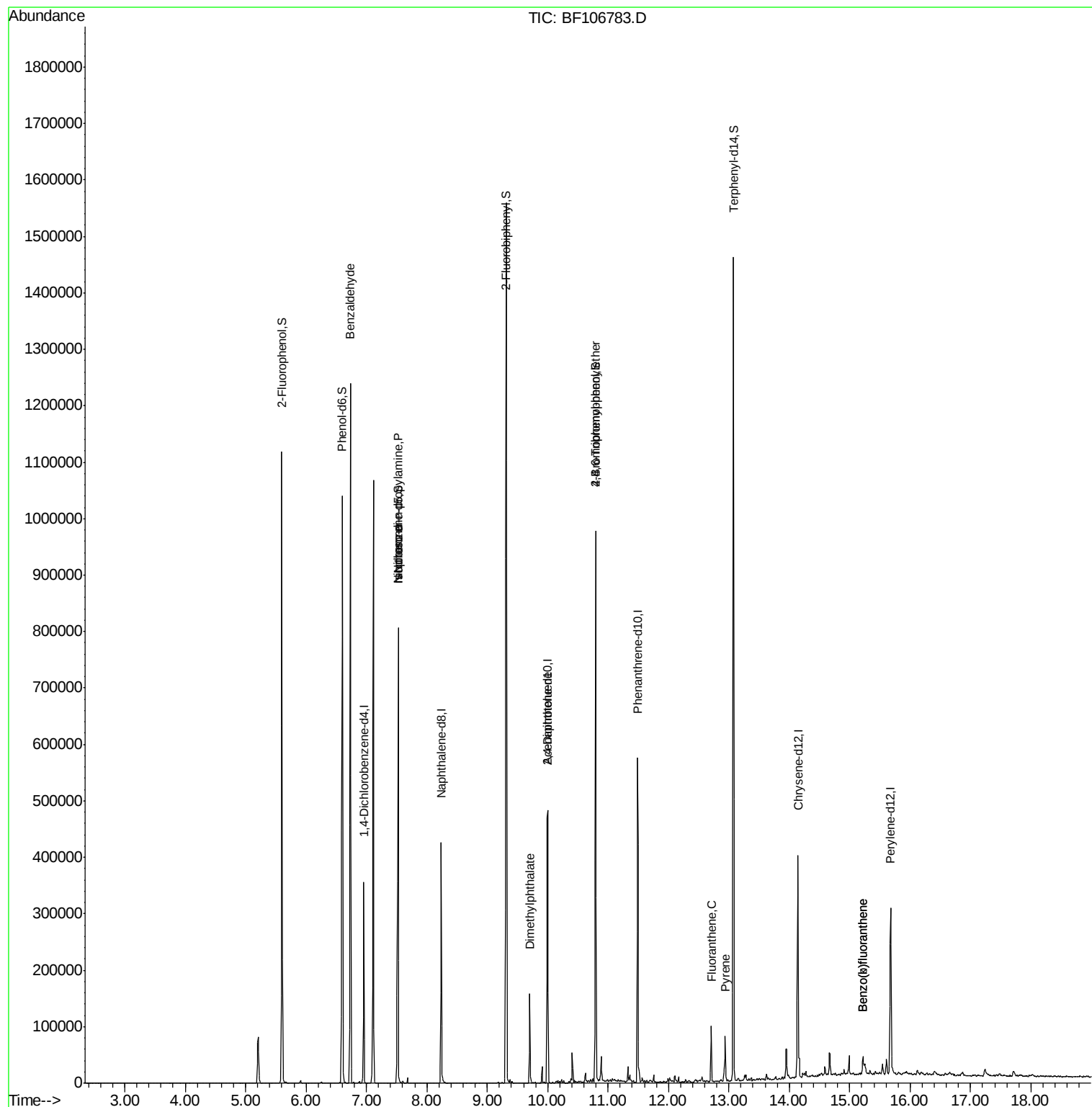
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.95  | 152  | 54672    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.24  | 136  | 212663   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 10.00 | 164  | 110586   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.49 | 188  | 214224   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 14.14 | 240  | 139110   | 20.00  | ng    | -0.02    |
| 86) Perylene-d12               | 15.68 | 264  | 149801   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.60  | 112  | 340524   | 105.47 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.60  | 99   | 434634   | 107.80 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.52  | 82   | 282847   | 73.91  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.80 | 330  | 151167   | 117.94 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.31  | 172  | 526499   | 79.66  | ng    | -0.01    |
| 78) Terphenyl-d14              | 13.08 | 244  | 569582   | 99.18  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.74  | 77   | 7489     | 2.211  | ng    | 88       |
| 19) n-Nitroso-di-n-propylamine | 7.52  | 70   | 36828    | 13.857 | ng    | # 74     |
| 25) Isophorone                 | 7.52  | 82   | 282845   | 41.945 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.70  | 163  | 69722    | 8.406  | ng    | 98       |
| 56) 2,4-Dinitrotoluene         | 10.00 | 165  | 14082    | 6.143  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.80 | 248  | 9037     | 3.535  | ng    | # 1      |
| 74) Fluoranthene               | 12.71 | 202  | 39319    | 3.453  | ng    | 95       |
| 77) Pyrene                     | 12.94 | 202  | 31166    | 3.397  | ng    | 99       |
| 87) Benzo(b)fluoranthene       | 15.22 | 252  | 25992    | 2.793  | ng    | 96       |
| 88) Benzo(k)fluoranthene       | 15.22 | 252  | 25992    | 2.933  | ng    | 96       |

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

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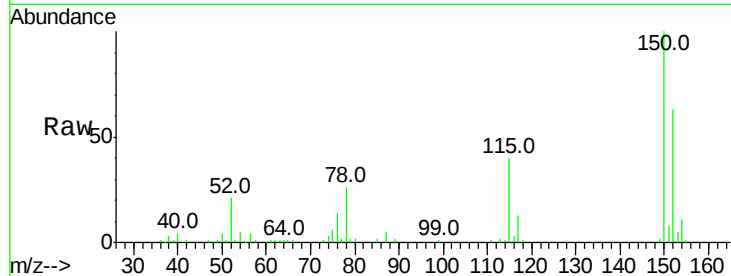


#1

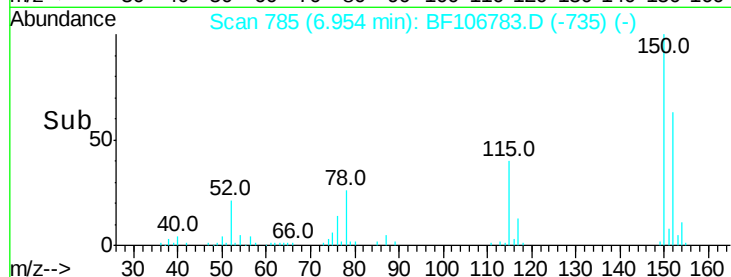
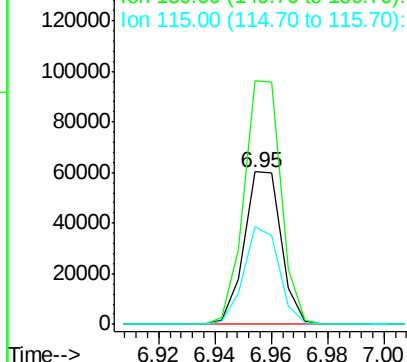
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.95 min Scan# 785  
Delta R.T. -0.01 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 54672  
Ion Ratio Lower Upper  
152 100  
150 159.9 124.6 186.8  
115 64.0 50.1 75.1



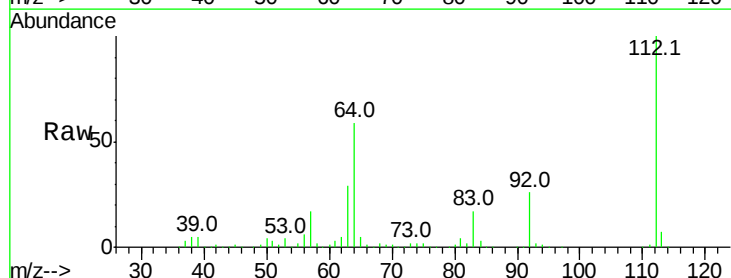
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



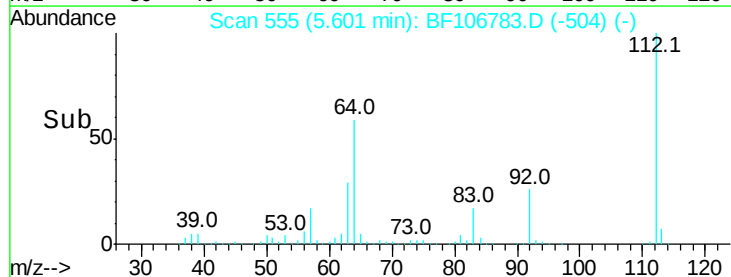
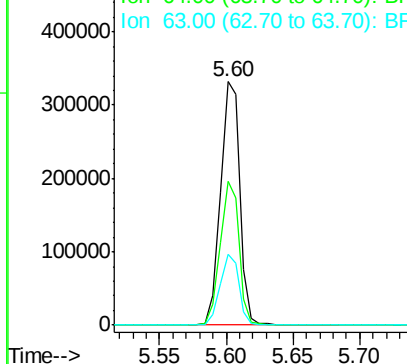
#5

2-Fluorophenol  
Concen: 105.468 ng  
RT: 5.60 min Scan# 555  
Delta R.T. 0.00 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Tgt Ion:112 Resp: 340524  
Ion Ratio Lower Upper  
112 100  
64 58.8 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: 107.796 ng

RT: 6.60 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF106783.D

Acq: 25 Jun 2018 20:36

Instrument :

BNA\_F

ClientSampled :

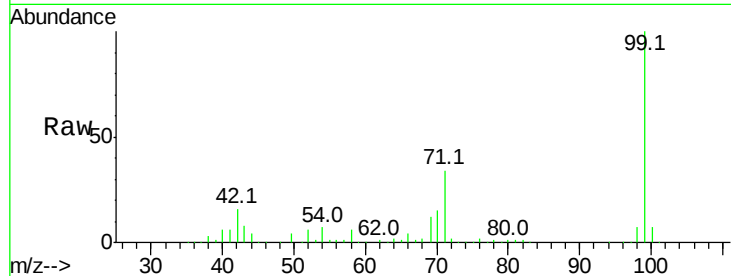
Tot Ion: 99 Resp: 434634

Ion Ratio Lower Upper

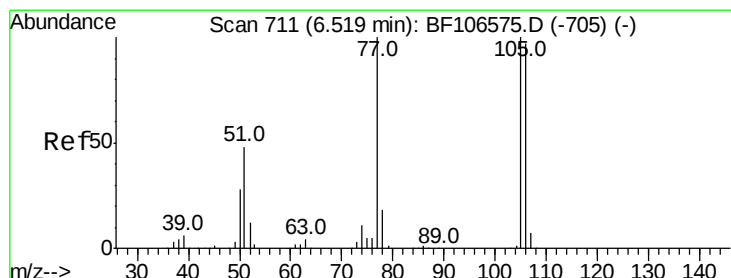
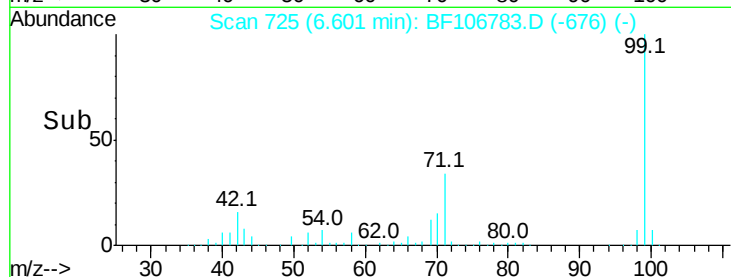
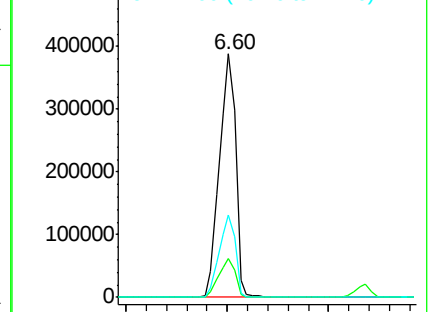
99 100

42 16.1 14.5 21.7

71 33.8 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



#9

Benzaldehyde

Concen: 2.211 ng

RT: 6.74 min Scan# 748

Delta R.T. 0.22 min

Lab File: BF106783.D

Acq: 25 Jun 2018 20:36

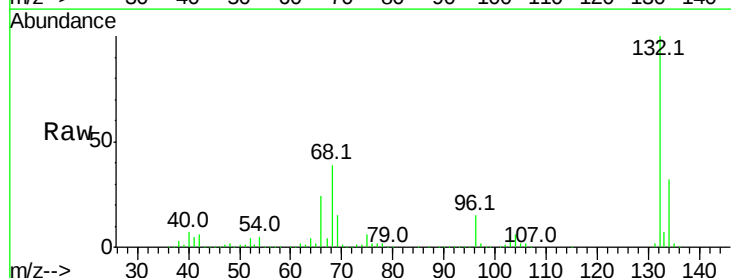
Tgt Ion: 77 Resp: 7489

Ion Ratio Lower Upper

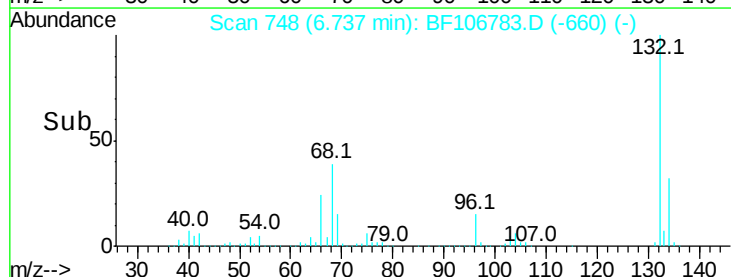
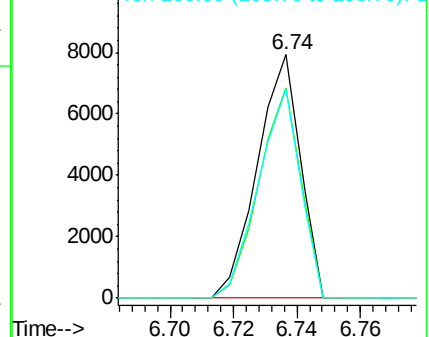
77 100

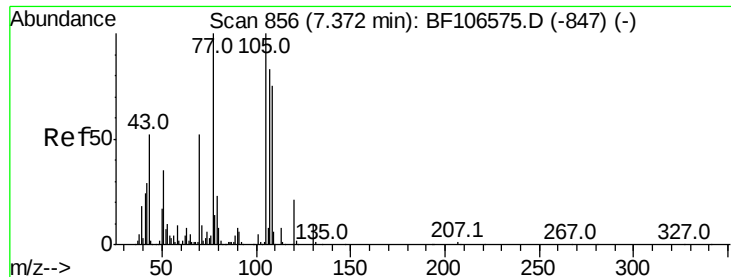
105 86.4 81.1 121.1

106 85.7 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): BF1  
Ion 106.00 (105.70 to 106.70): BF1

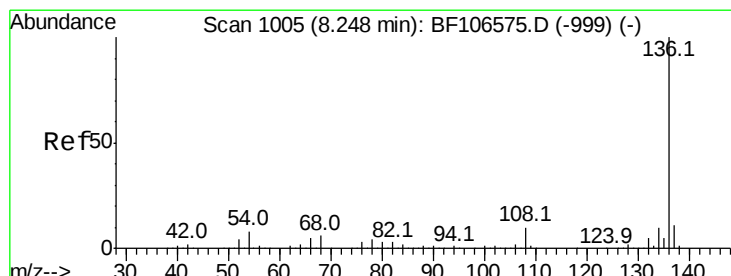
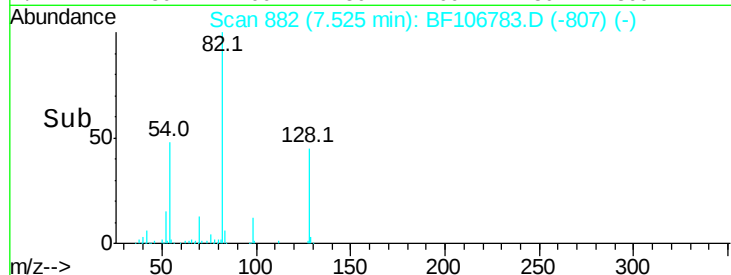
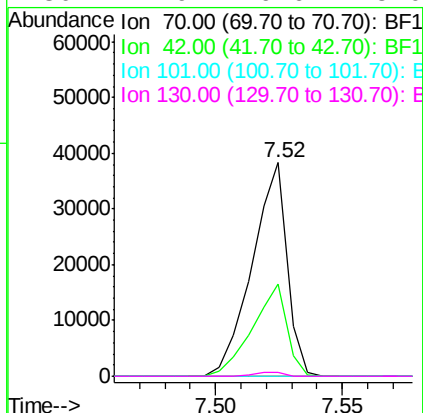
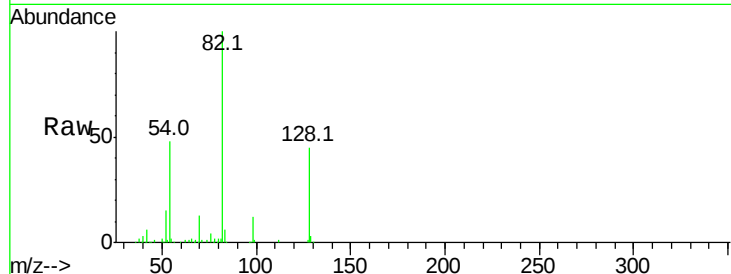




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.857 ng  
RT: 7.52 min Scan# 882  
Delta R.T. 0.14 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

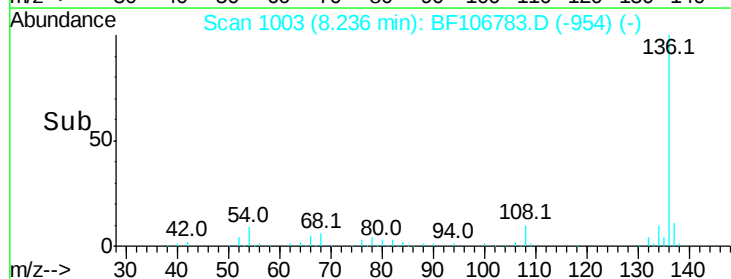
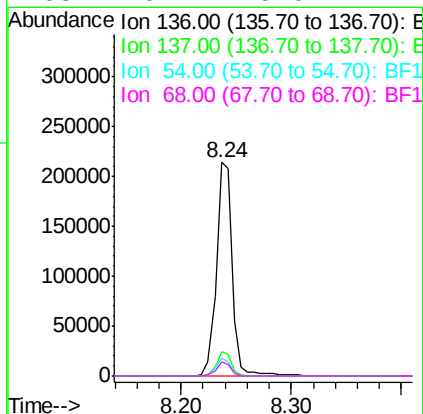
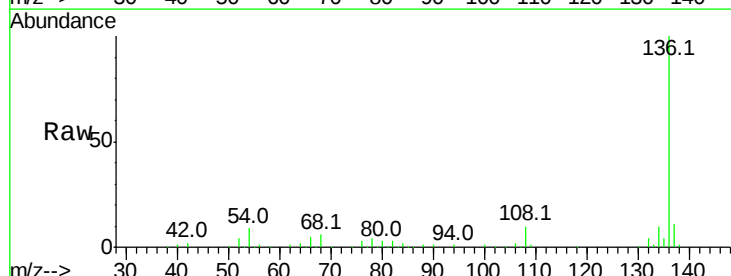
Instrument :  
BNA\_F  
ClientSampleId :

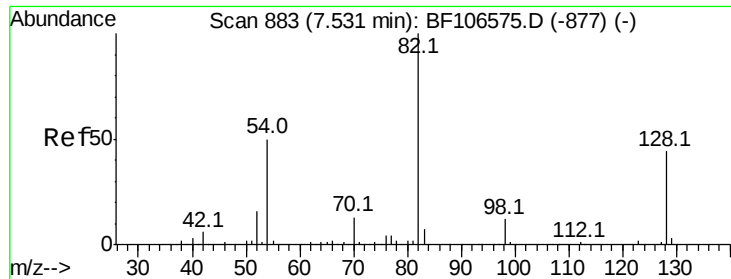
Tot Ion: 70 Resp: 36828  
Ion Ratio Lower Upper  
70 100  
42 43.2 47.5 71.3#  
101 0.0 7.4 11.2#  
130 1.9 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.24 min Scan# 1003  
Delta R.T. -0.01 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Tgt Ion: 136 Resp: 212663  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.9 13.3  
54 8.6 6.6 9.8  
68 6.4 5.0 7.4

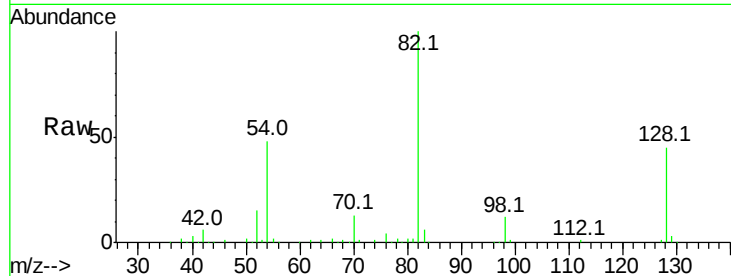




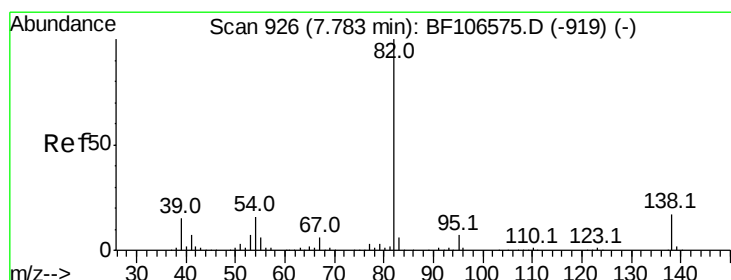
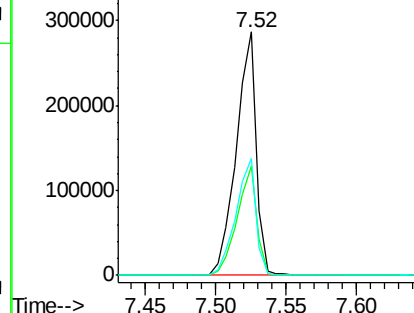
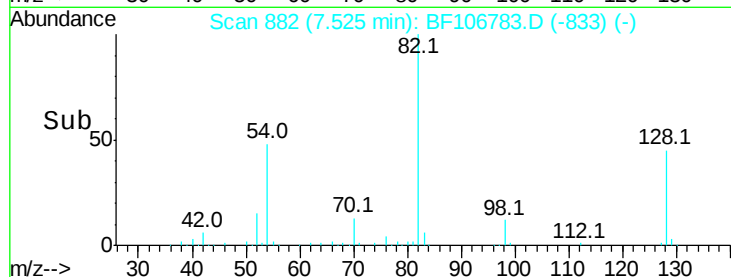
#23  
Nitrobenzene-d5  
Concen: 73.914 ng  
RT: 7.52 min Scan# 882  
Delta R.T. -0.01 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 45.0  | 36.1  | 54.1  |
| 54      | 47.8  | 41.4  | 62.2  |

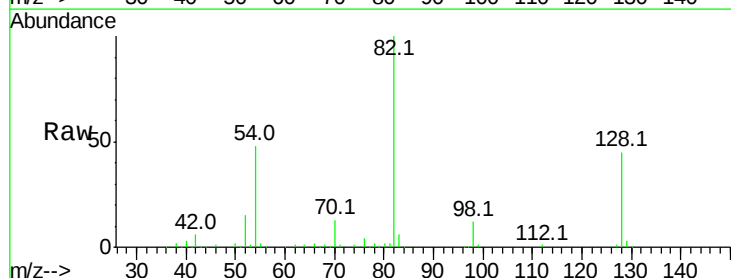


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 128.00 (127.70 to 128.70): BF1  
Ion 54.00 (53.70 to 54.70): BF1

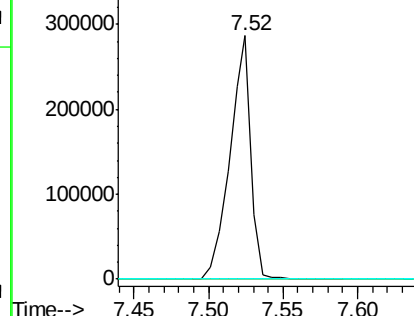
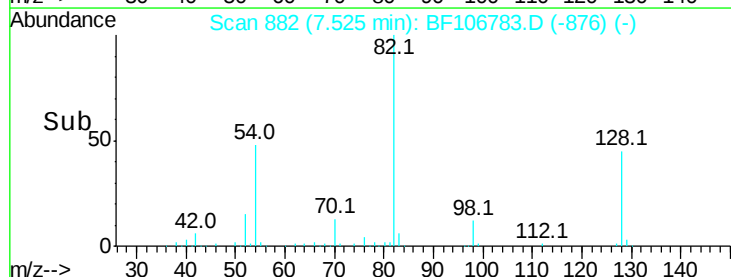


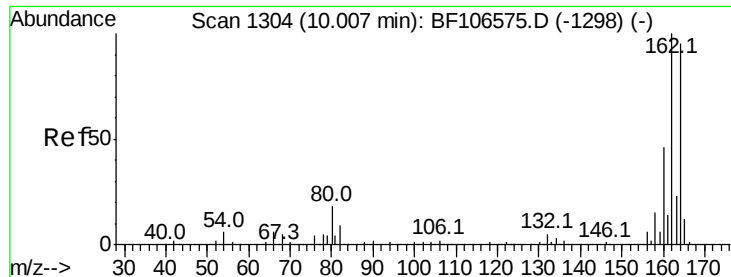
#25  
Isophorone  
Concen: 41.945 ng  
RT: 7.52 min Scan# 882  
Delta R.T. -0.26 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

| Tgt 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

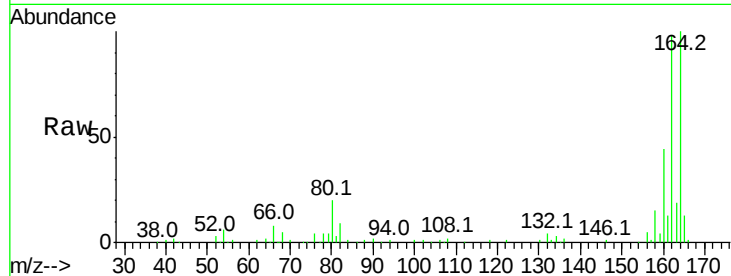




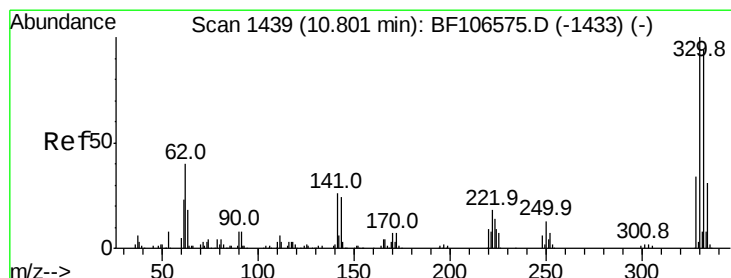
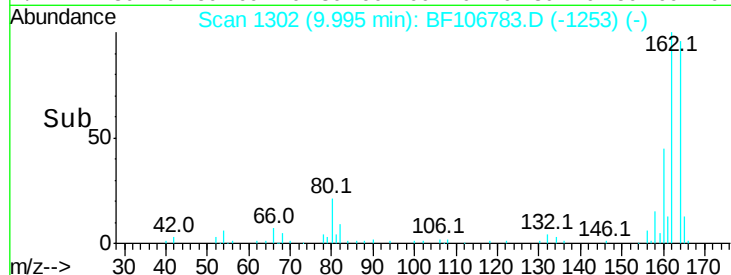
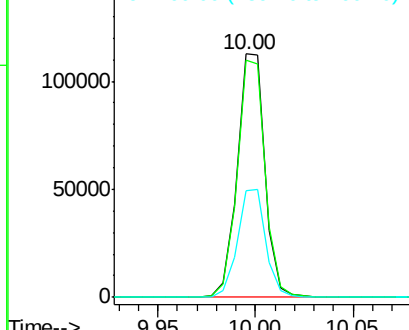
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 10.00 min Scan# 1302  
Delta R.T. -0.01 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:164 Resp: 110586  
Ion Ratio Lower Upper  
164 100  
162 97.5 86.1 129.1  
160 43.6 38.3 57.5

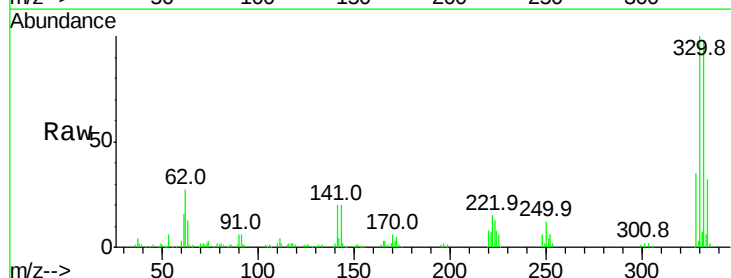


Abundance Ion 164.00 (163.70 to 164.70): E  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

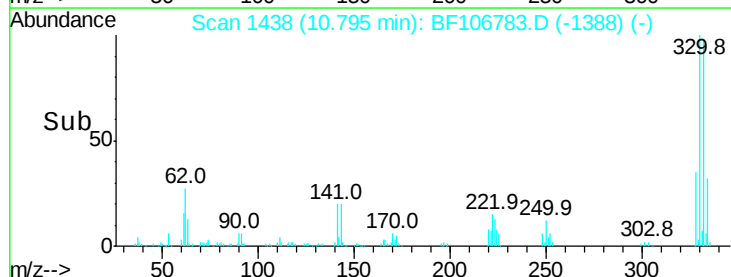
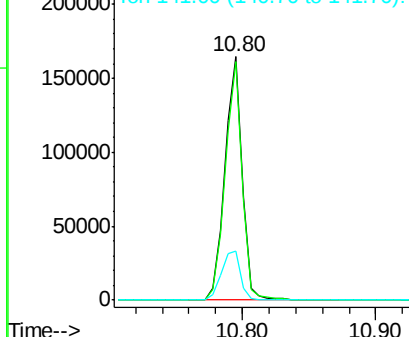


#41  
2,4,6-Tribromophenol  
Concen: 117.941 ng  
RT: 10.80 min Scan# 1438  
Delta R.T. -0.01 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Tgt Ion:330 Resp: 151167  
Ion Ratio Lower Upper  
330 100  
332 96.0 77.0 115.6  
141 22.3 29.9 44.9#



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E

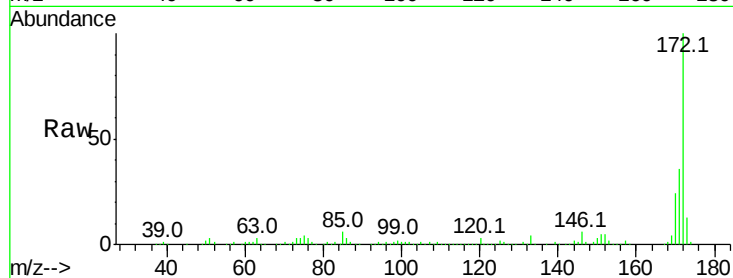




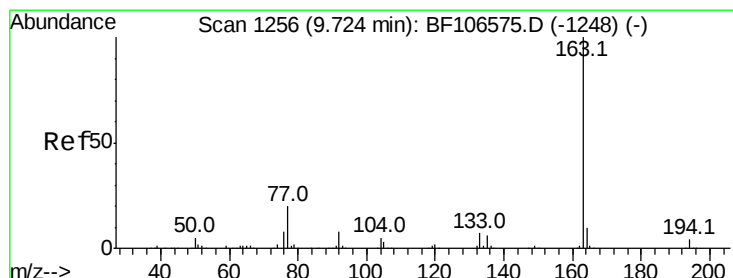
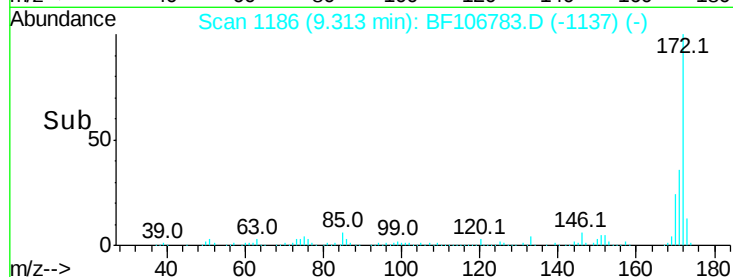
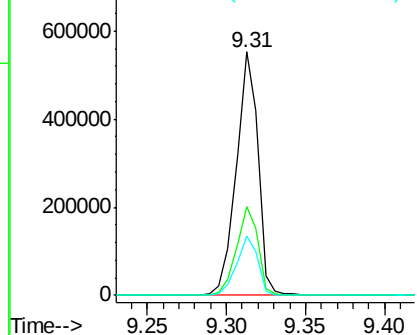
#44  
 2-Fluorobiphenyl  
 Concen: 79.659 ng  
 RT: 9.31 min Scan# 1186  
 Delta R.T. -0.01 min  
 Lab File: BF106783.D  
 Acq: 25 Jun 2018 20:36

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 526499  
 Ion Ratio Lower Upper  
 172 100  
 171 36.4 29.7 44.5  
 170 24.3 19.6 29.4

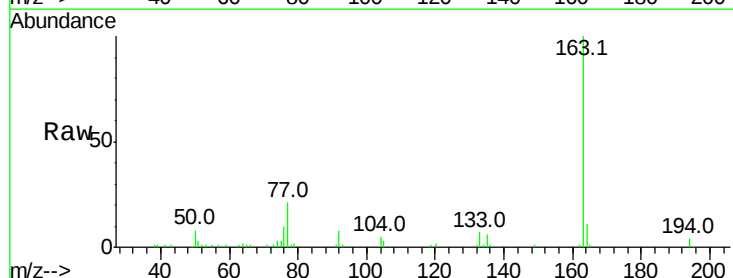


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

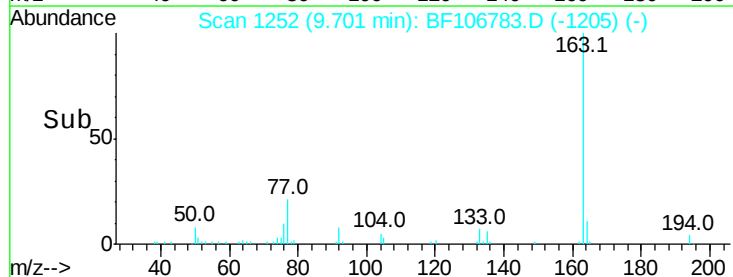
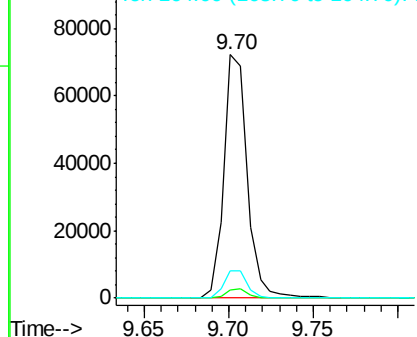


#49  
 Dimethylphthalate  
 Concen: 8.406 ng  
 RT: 9.70 min Scan# 1252  
 Delta R.T. -0.02 min  
 Lab File: BF106783.D  
 Acq: 25 Jun 2018 20:36

Tgt Ion:163 Resp: 69722  
 Ion Ratio Lower Upper  
 163 100  
 194 3.6 2.7 4.1  
 164 11.1 8.2 12.2



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





#56

2,4-Dinitrotoluene

Concen: 6.143 ng

RT: 10.00 min Scan# 1302

Delta R.T. -0.21 min

Lab File: BF106783.D

Acq: 25 Jun 2018 20:36

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 14082

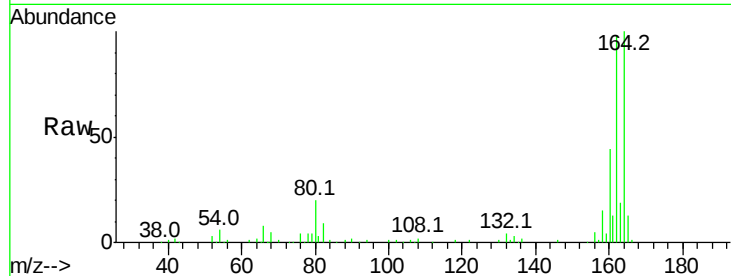
Ion Ratio Lower Upper

165 100

63 0.0 36.4 54.6#

89 0.0 57.8 86.6#

182 0.0 1.6 2.4#

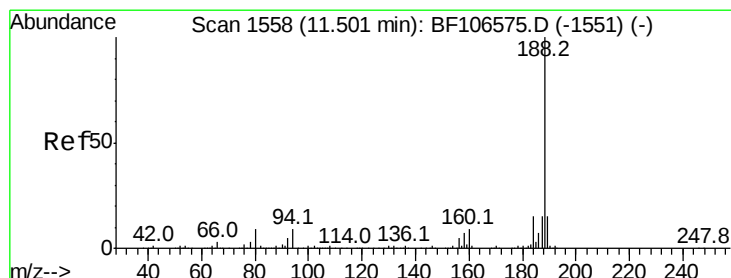
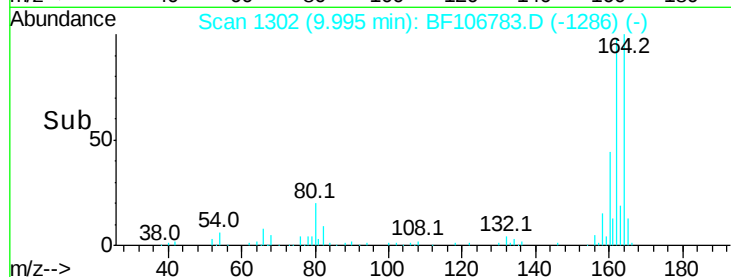
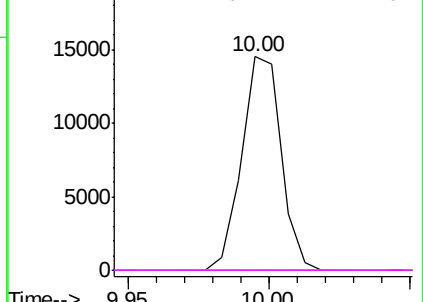


Abundance Ion 165.00 (164.70 to 165.70): E

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



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.49 min Scan# 1556

Delta R.T. -0.01 min

Lab File: BF106783.D

Acq: 25 Jun 2018 20:36

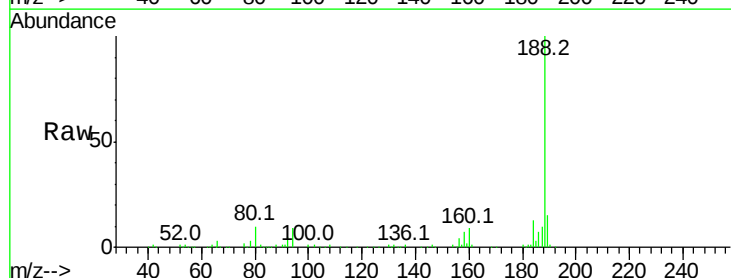
Tgt Ion:188 Resp: 214224

Ion Ratio Lower Upper

188 100

94 8.5 8.5 12.7

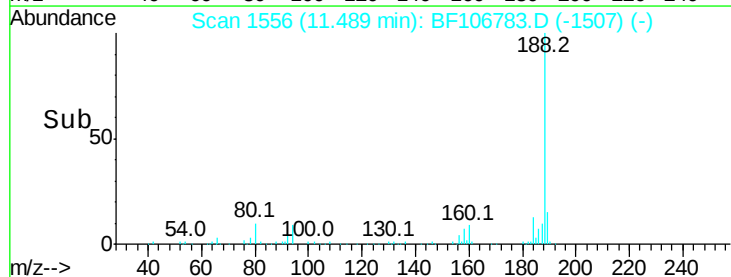
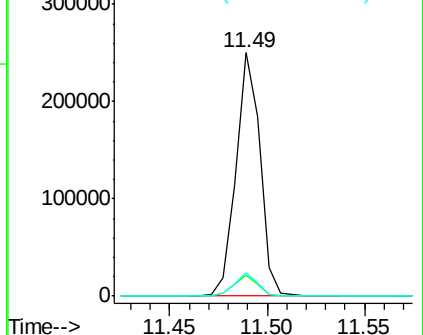
80 9.9 9.2 13.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

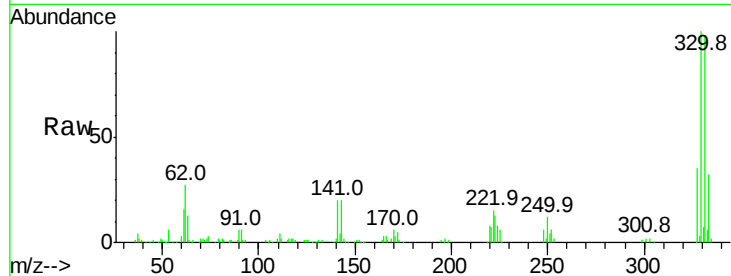




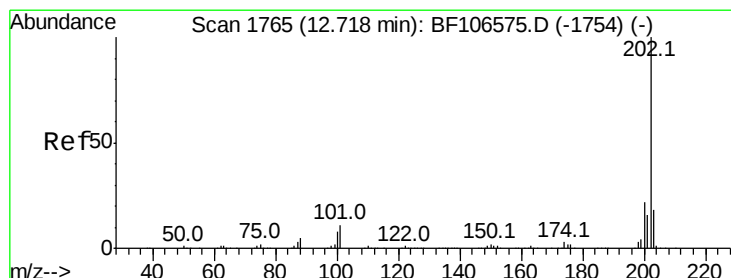
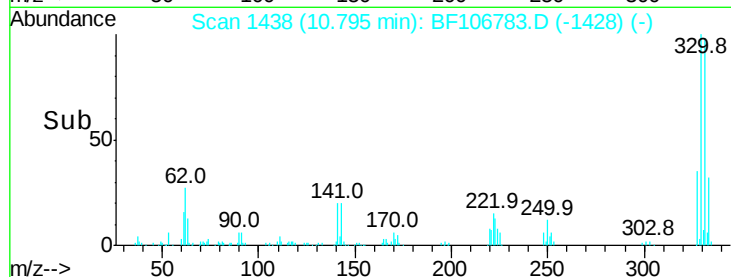
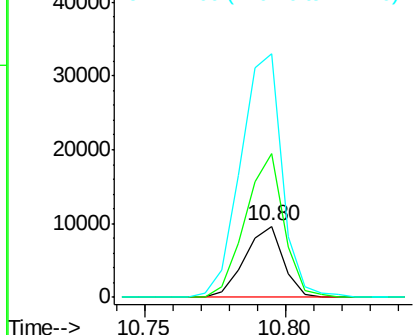
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.535 ng  
 RT: 10.80 min Scan# 1438  
 Delta R.T. -0.24 min  
 Lab File: BF106783.D  
 Acq: 25 Jun 2018 20:36

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion:248 Resp: 9037  
 Ion Ratio Lower Upper  
 248 100  
 250 201.8 76.9 115.3#  
 141 343.0 74.4 111.6#

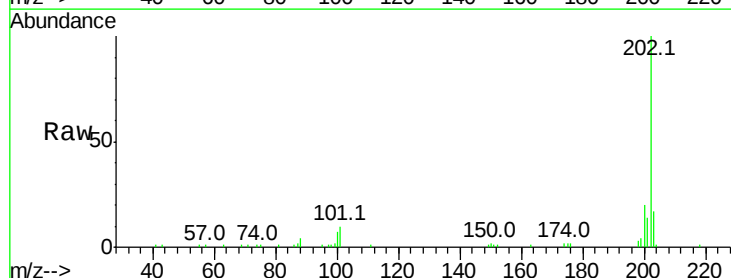


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

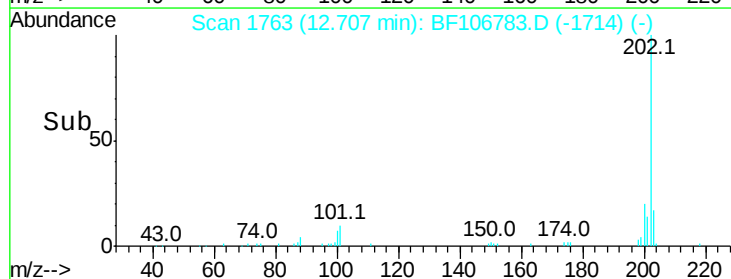
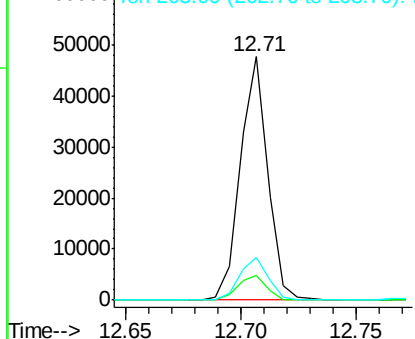


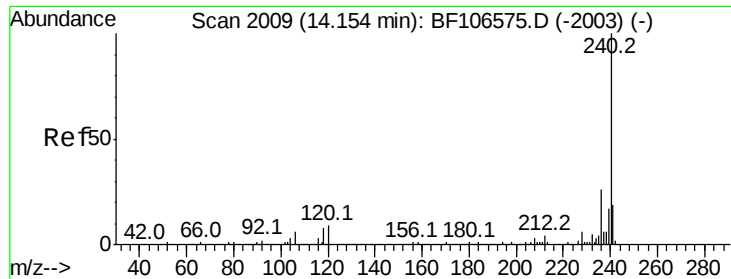
#74  
 Fluoranthene  
 Concen: 3.453 ng  
 RT: 12.71 min Scan# 1763  
 Delta R.T. -0.01 min  
 Lab File: BF106783.D  
 Acq: 25 Jun 2018 20:36

Tgt Ion:202 Resp: 39319  
 Ion Ratio Lower Upper  
 202 100  
 101 10.1 0.0 34.1  
 203 17.4 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: 14.14 min Scan# 2007

Delta R.T. -0.02 min

Lab File: BF106783.D

Acq: 25 Jun 2018 20:36

Instrument :

BNA\_F

ClientSampleId :

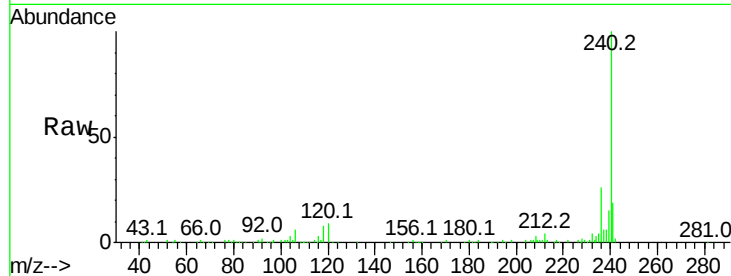
Tot Ion:240 Resp: 139110

Ion Ratio Lower Upper

240 100

120 8.8 9.5 14.3#

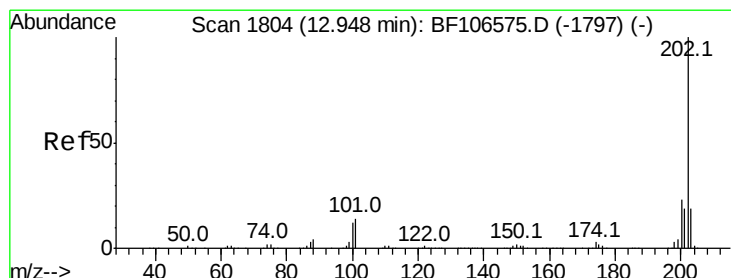
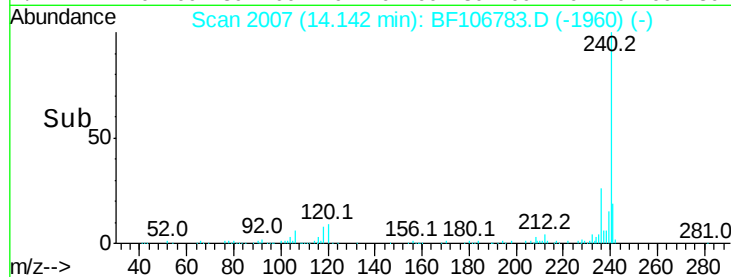
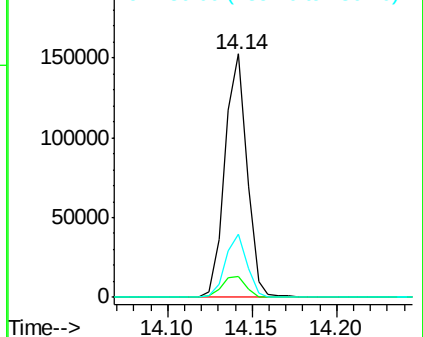
236 25.7 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 3.397 ng

RT: 12.94 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF106783.D

Acq: 25 Jun 2018 20:36

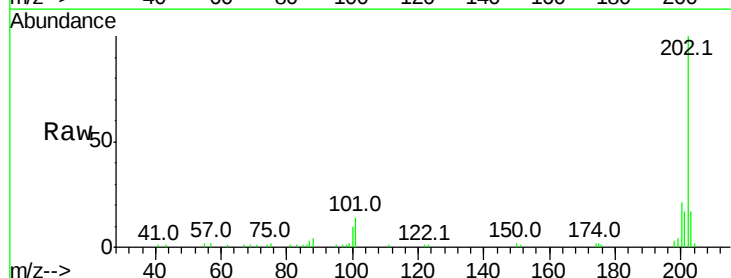
Tgt Ion:202 Resp: 31166

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

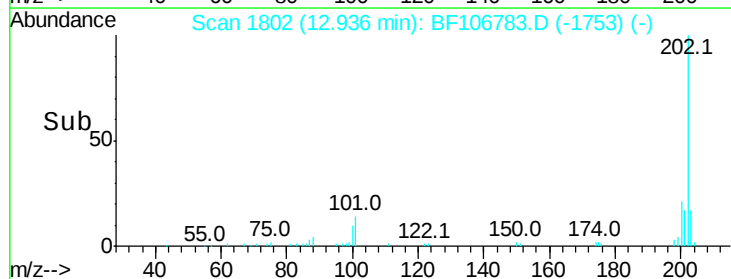
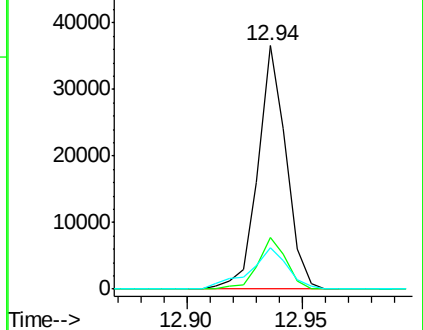
203 17.2 14.3 21.5

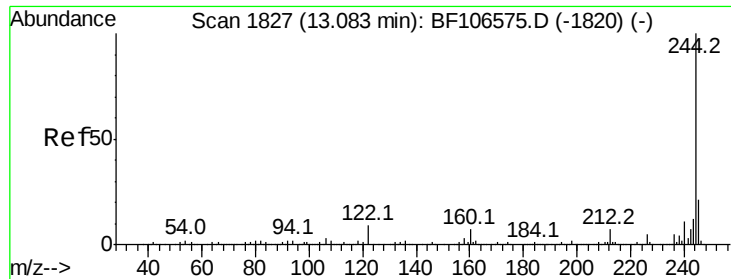


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

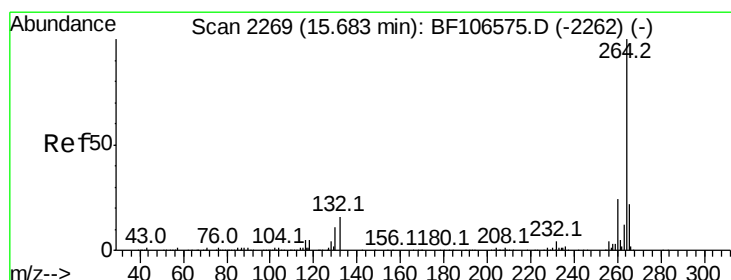
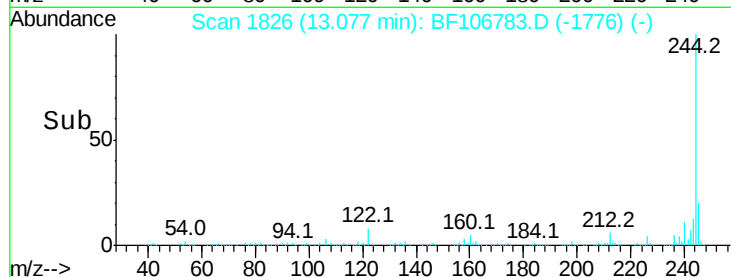
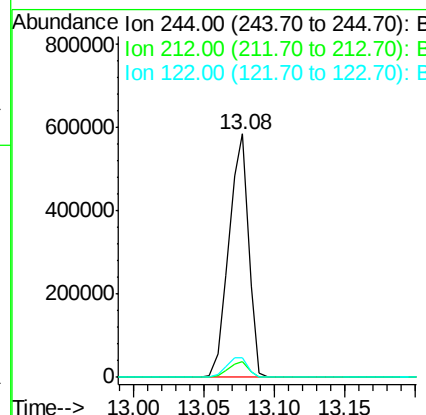
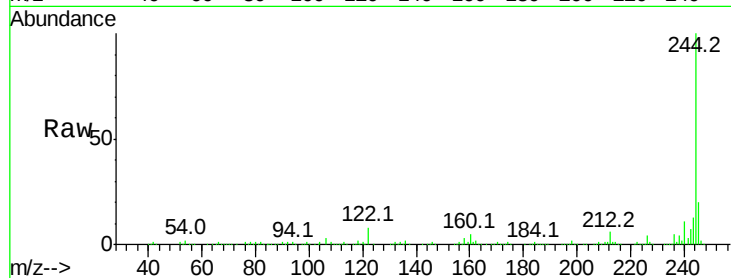




#78  
 Terphenyl-d14  
 Concen: 99.180 ng  
 RT: 13.08 min Scan# 1826  
 Delta R.T. -0.01 min  
 Lab File: BF106783.D  
 Acq: 25 Jun 2018 20:36

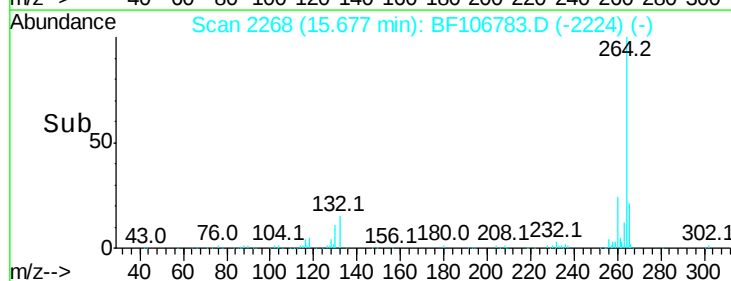
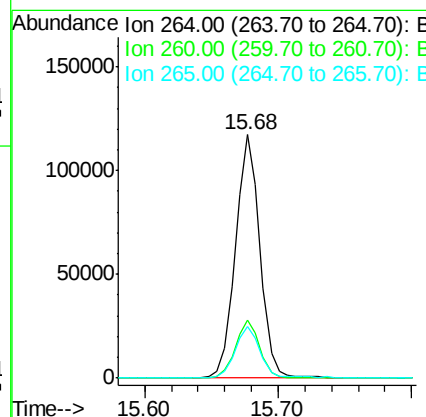
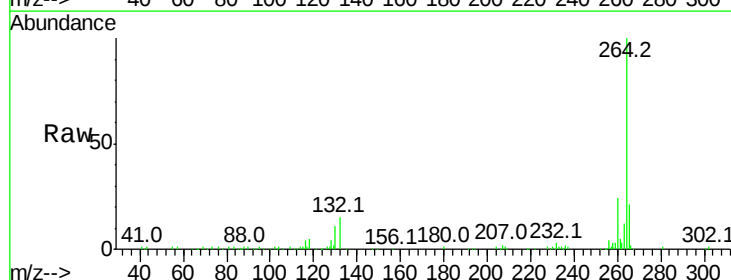
Instrument :  
 BNA\_F  
 ClientSampleId :

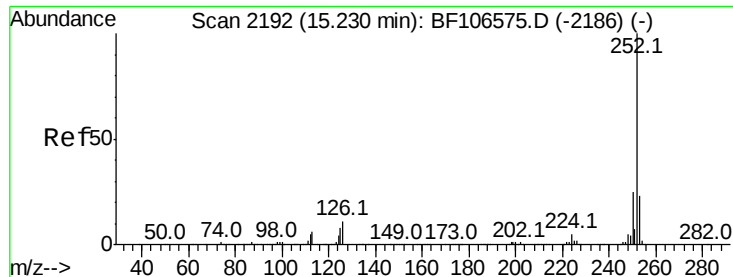
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.3   | 5.4   | 8.0   |
| 122     | 8.1   | 11.0  | 16.4  |



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.68 min Scan# 2268  
 Delta R.T. -0.04 min  
 Lab File: BF106783.D  
 Acq: 25 Jun 2018 20:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 21.4  | 17.5  | 26.3  |

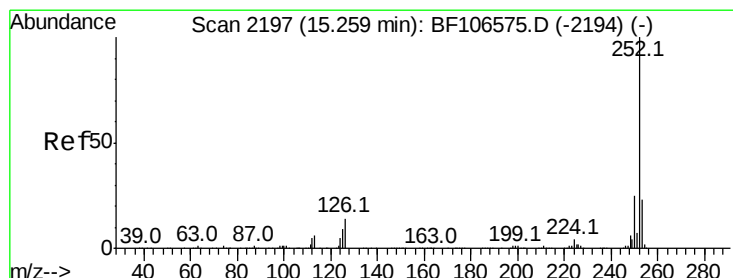
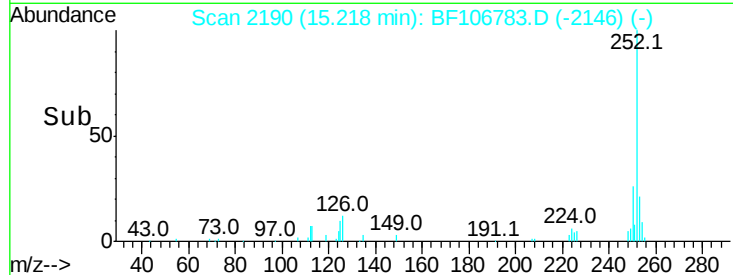
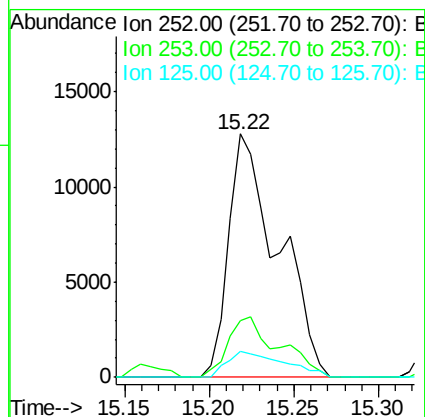
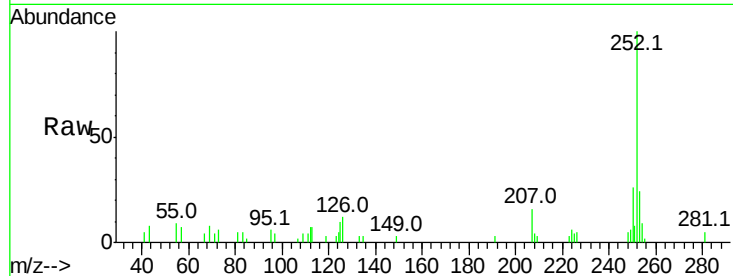




#87  
Benzo(b)fluoranthene  
Concen: 2.793 ng  
RT: 15.22 min Scan# 2190  
Delta R.T. -0.04 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.0  | 25.6  |
| 125     | 10.4  | 9.0   | 13.6  |



#88  
Benzo(k)fluoranthene  
Concen: 2.933 ng  
RT: 15.22 min Scan# 2190  
Delta R.T. -0.08 min  
Lab File: BF106783.D  
Acq: 25 Jun 2018 20:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 17.9  | 26.9  |
| 125     | 10.4  | 10.2  | 15.2  |

