

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020916\  
 Data File : BF084965.D  
 Acq On : 9 Feb 2016 21:20  
 Operator : SJ/IZ  
 Sample : H1386-05  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B018(10-12)

Quant Time: Feb 10 03:27:23 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 03 14:16:01 2016  
 Response via : Initial Calibration

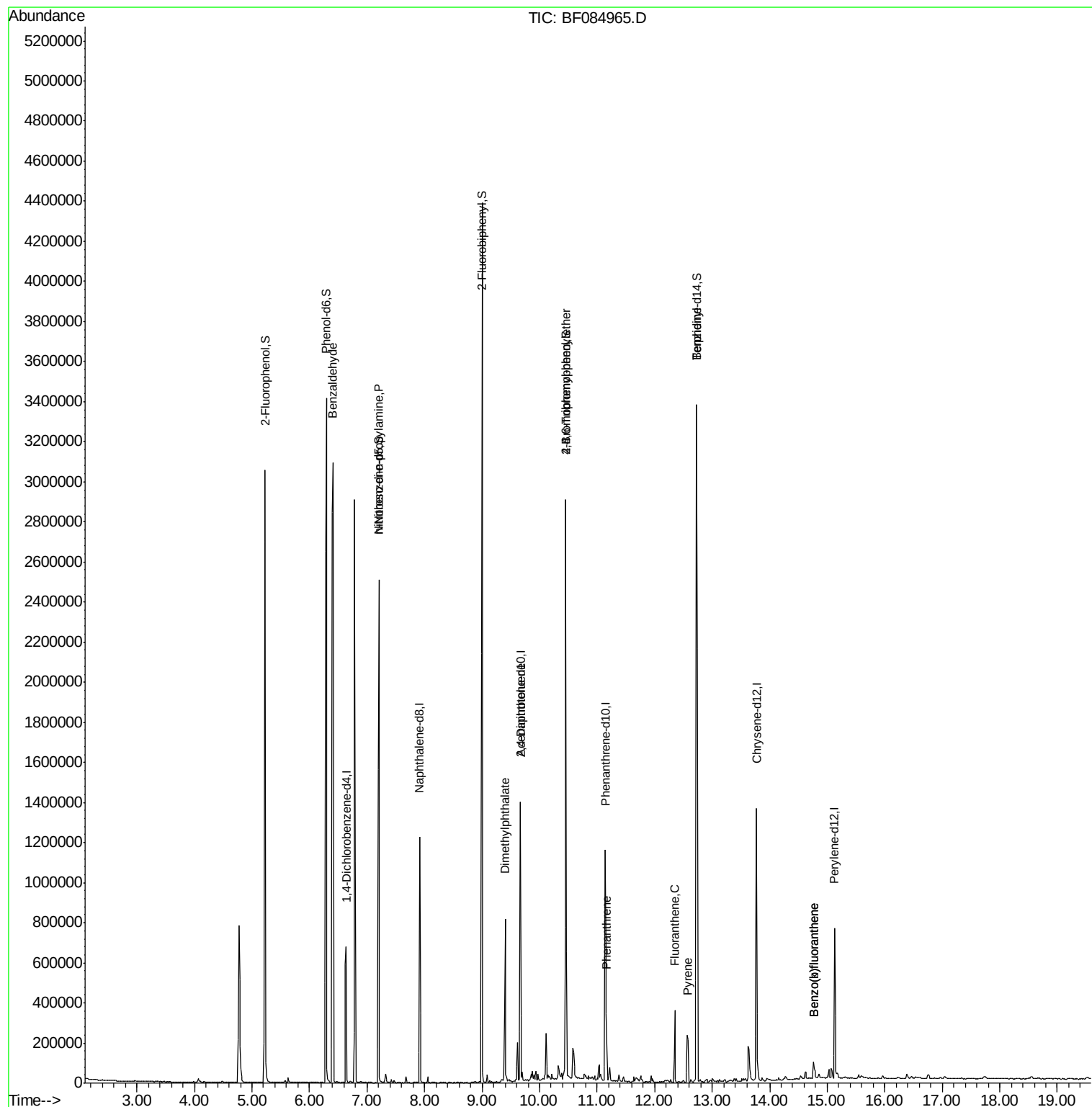
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.64  | 152  | 142538   | 20.00  | ng    | -0.05    |
| 21) Naphthalene-d8             | 7.92  | 136  | 588527   | 20.00  | ng    | -0.06    |
| 38) Acenaphthene-d10           | 9.66  | 164  | 281920   | 20.00  | ng    | -0.07    |
| 63) Phenanthrene-d10           | 11.14 | 188  | 515953   | 20.00  | ng    | -0.07    |
| 75) Chrysene-d12               | 13.77 | 240  | 436369   | 20.00  | ng    | -0.07    |
| 86) Perylene-d12               | 15.13 | 264  | 316181   | 20.00  | ng    | -0.08    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.23  | 112  | 1208341  | 132.04 | ng    | -0.05    |
| 7) Phenol-d6                   | 6.29  | 99   | 1598656  | 140.92 | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.21  | 82   | 998215   | 95.55  | ng    | -0.06    |
| 41) 2,4,6-Tribromophenol       | 10.45 | 330  | 360248   | 122.51 | ng    | -0.07    |
| 44) 2-Fluorobiphenyl           | 9.00  | 172  | 1556613  | 98.02  | ng    | -0.06    |
| 78) Terphenyl-d14              | 12.73 | 244  | 1404871  | 72.95  | ng    | -0.07    |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.41  | 77   | 28050    | 4.19   | ng    | 86       |
| 19) n-Nitroso-di-n-propylamine | 7.21  | 70   | 137137   | 19.28  | ng    | # 76     |
| 49) Dimethylphthalate          | 9.40  | 163  | 371319   | 17.29  | ng    | # 90     |
| 56) 2,4-Dinitrotoluene         | 9.66  | 165  | 37082    | 6.20   | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.45 | 248  | 20665    | 3.63   | ng    | # 1      |
| 70) Phenanthrene               | 11.16 | 178  | 142920   | 4.99   | ng    | 99       |
| 74) Fluoranthene               | 12.35 | 202  | 150449   | 5.19   | ng    | 94       |
| 76) Benzidine                  | 12.73 | 184  | 18591    | 7.69   | ng    | 96       |
| 77) Pyrene                     | 12.58 | 202  | 138485   | 4.15   | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.76 | 252  | 54566    | 2.57   | ng    | # 96     |
| 88) Benzo(k)fluoranthene       | 14.76 | 252  | 54566    | 3.11   | ng    | 100      |

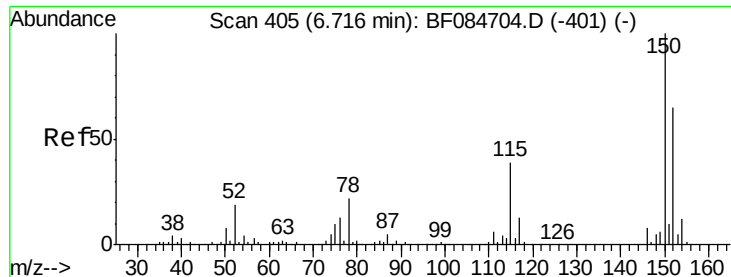
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF020916\  
Data File : BF084965.D  
Acq On : 9 Feb 2016 21:20  
Operator : SJ/IZ  
Sample : H1386-05  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B018(10-12)

Quant Time: Feb 10 03:27:23 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF020116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 03 14:16:01 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 398

Delta R.T. -0.05 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

S4-B018(10-12)

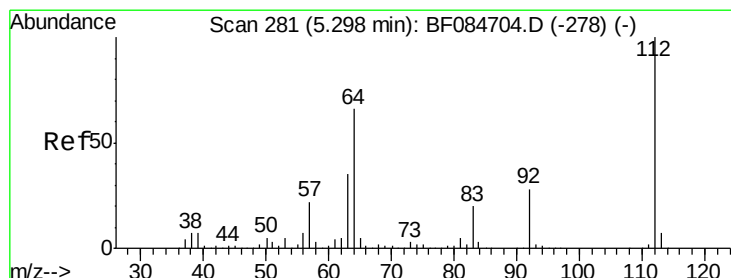
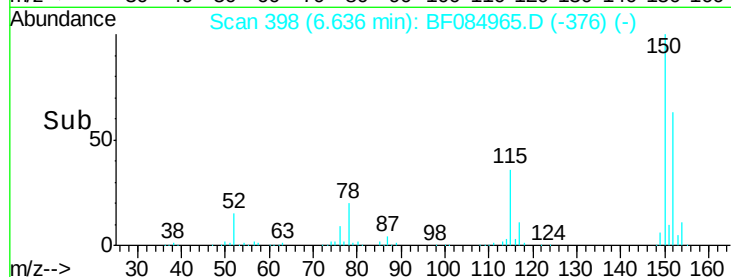
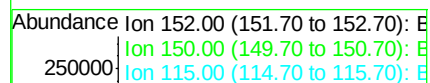
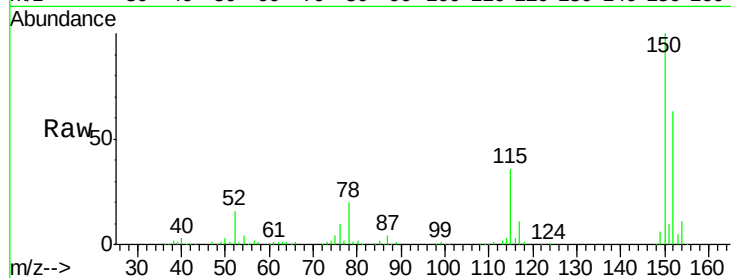
Tgt Ion:152 Resp: 142538

Ion Ratio Lower Upper

152 100

150 158.1 123.0 184.4

115 56.9 51.4 77.2



#5

2-Fluorophenol

Concen: 132.04 ng

RT: 5.23 min Scan# 275

Delta R.T. -0.05 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

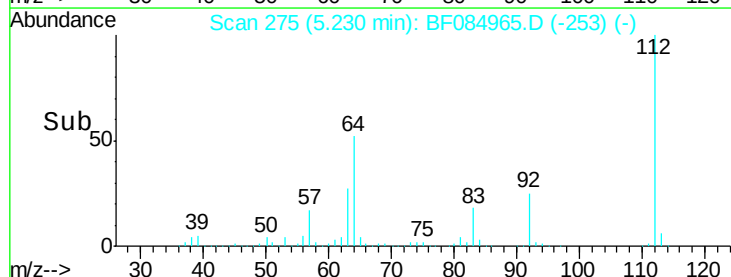
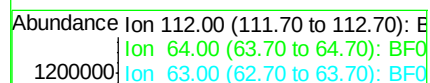
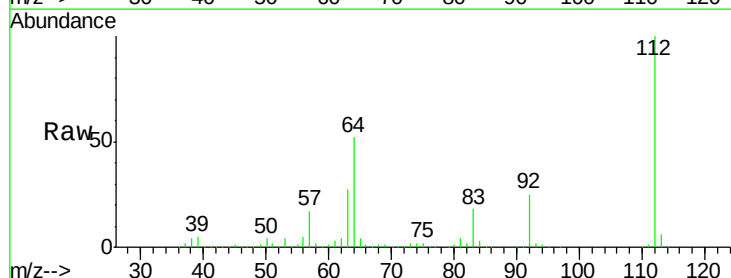
Tgt Ion:112 Resp: 1208341

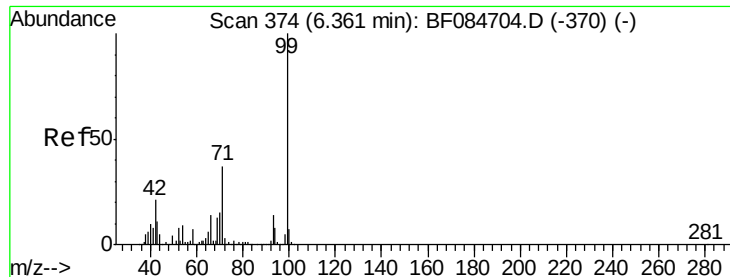
Ion Ratio Lower Upper

112 100

64 51.6 36.6 55.0

63 27.3 19.4 29.0





#7

Phenol-d6

Concen: 140.92 ng

RT: 6.29 min Scan# 368

Delta R.T. -0.05 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

S4-B018(10-12)

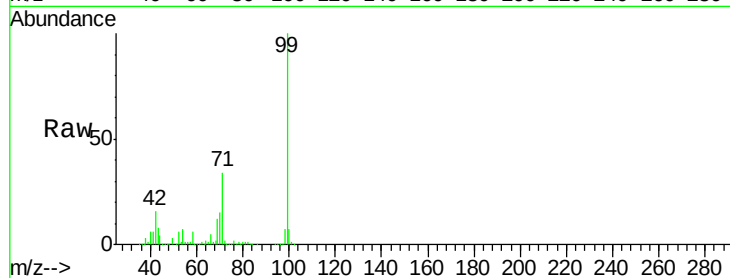
Tgt Ion: 99 Resp: 1598656

Ion Ratio Lower Upper

99 100

42 16.3 12.8 19.2

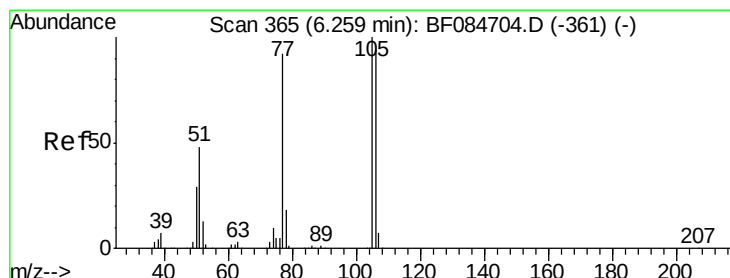
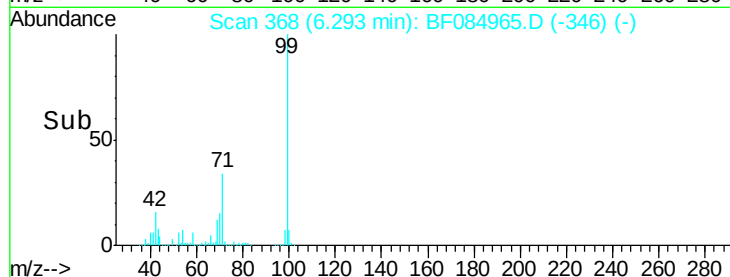
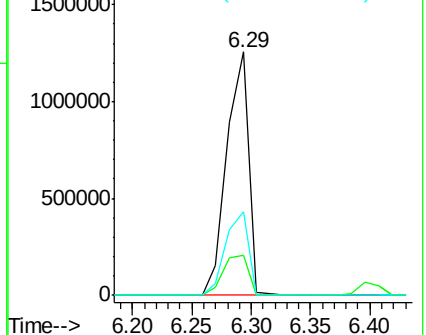
71 34.1 30.9 46.3



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 4.19 ng

RT: 6.41 min Scan# 378

Delta R.T. 0.17 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

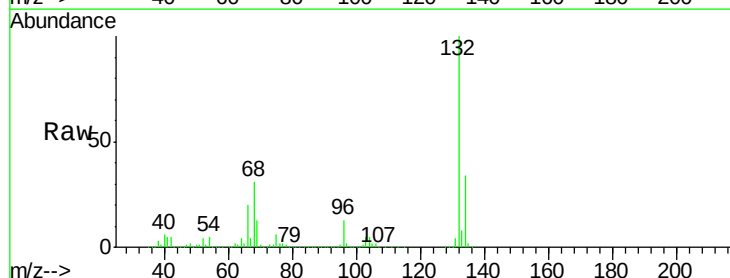
Tgt Ion: 77 Resp: 28050

Ion Ratio Lower Upper

77 100

105 89.3 83.0 123.0

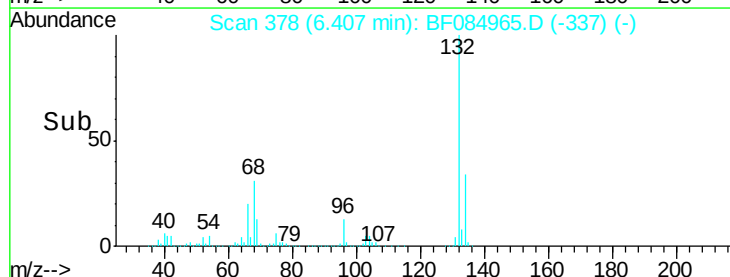
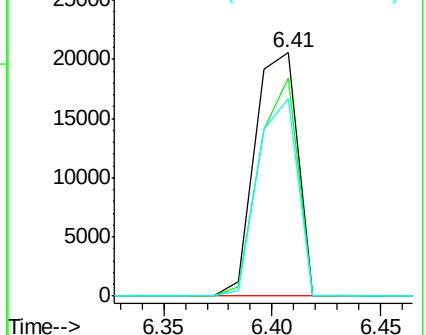
106 80.9 74.6 114.6

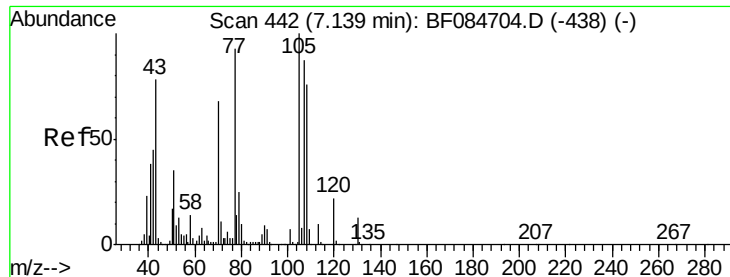


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): B

Ion 106.00 (105.70 to 106.70): B

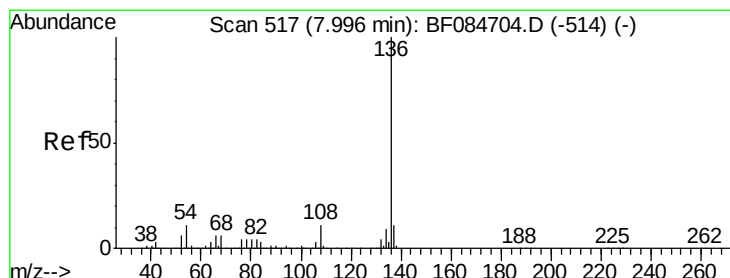
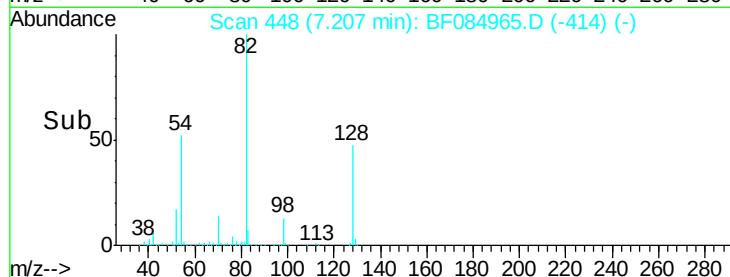
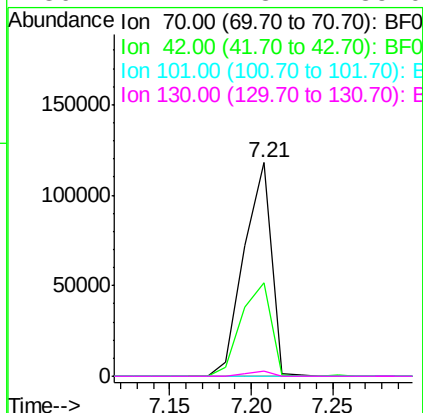
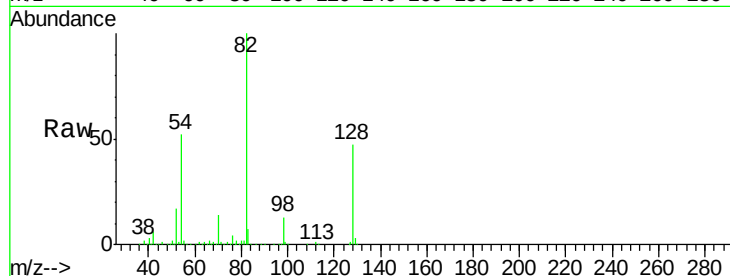




#19  
n-Nitroso-di-n-propylamine  
Concen: 19.28 ng  
RT: 7.21 min Scan# 448  
Delta R.T. 0.09 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

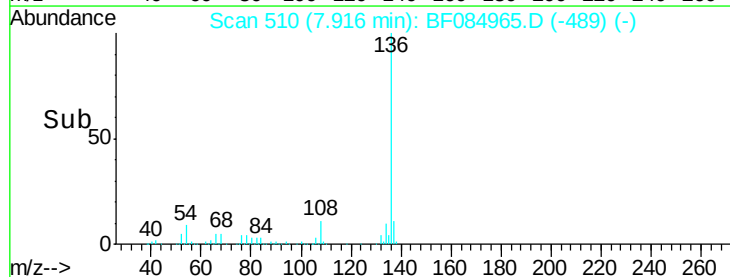
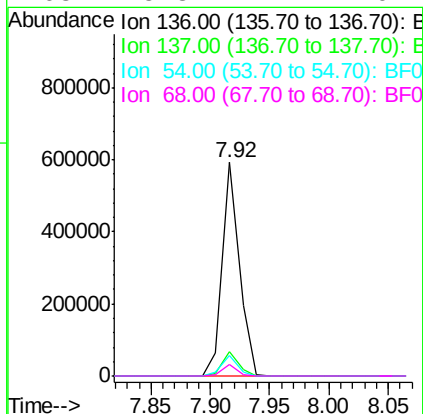
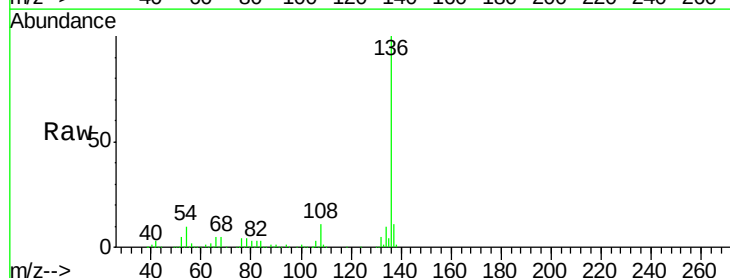
Instrument :  
BNA\_F  
ClientSampleId :  
S4-B018(10-12)

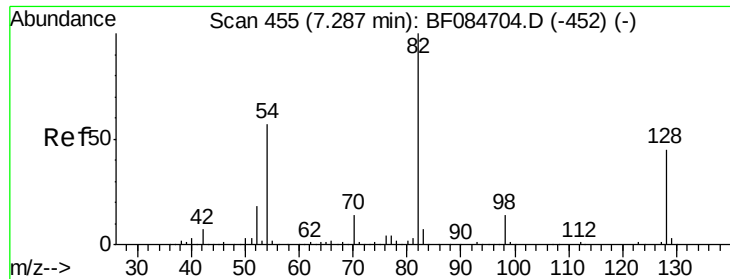
Tgt Ion: 70 Resp: 137137  
Ion Ratio Lower Upper  
70 100  
42 44.0 33.3 49.9  
101 0.0 9.3 13.9#  
130 2.4 23.4 35.0#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.92 min Scan# 510  
Delta R.T. -0.06 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

Tgt Ion:136 Resp: 588527  
Ion Ratio Lower Upper  
136 100  
137 11.2 8.7 13.1  
54 9.6 5.8 8.8#  
68 5.3 4.2 6.2

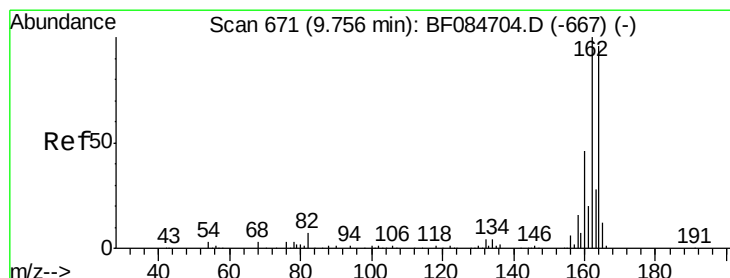
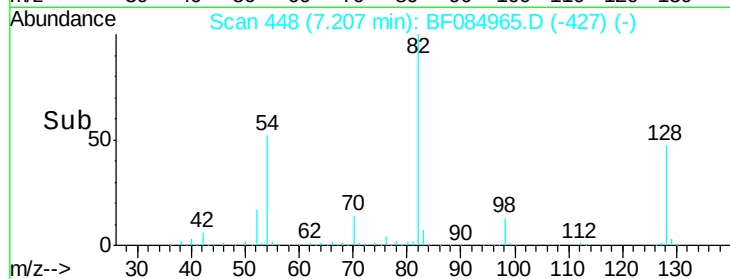
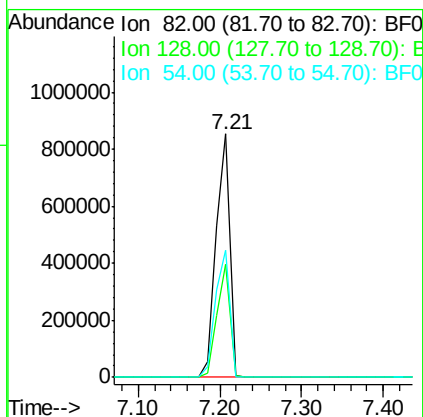
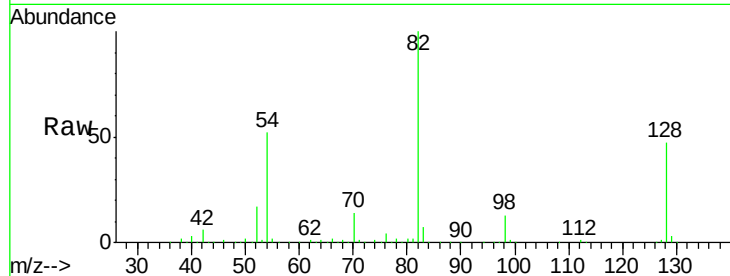




#23  
 Nitrobenzene-d5  
 Concen: 95.55 ng  
 RT: 7.21 min Scan# 448  
 Delta R.T. -0.06 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

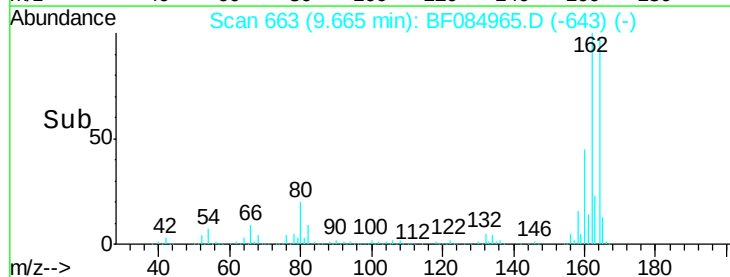
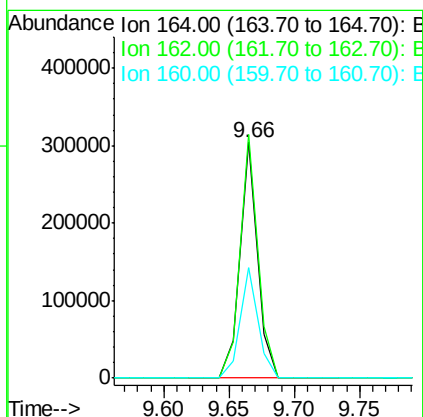
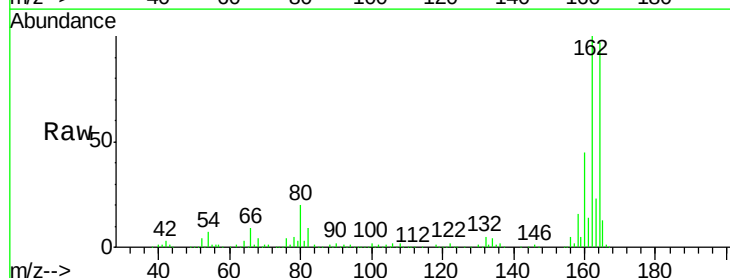
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B018(10-12)

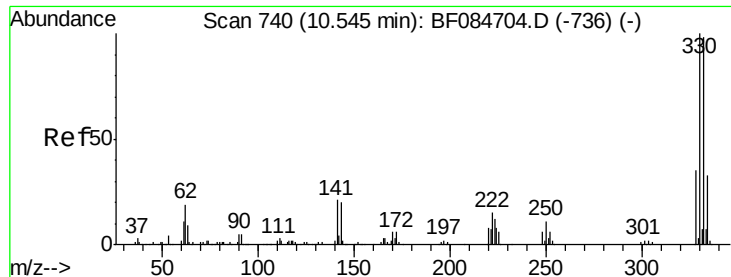
Tgt Ion: 82 Resp: 998215  
 Ion Ratio Lower Upper  
 82 100  
 128 46.6 34.6 51.8  
 54 52.5 38.4 57.6



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.66 min Scan# 663  
 Delta R.T. -0.07 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

Tgt Ion: 164 Resp: 281920  
 Ion Ratio Lower Upper  
 164 100  
 162 103.3 85.1 127.7  
 160 46.7 37.5 56.3

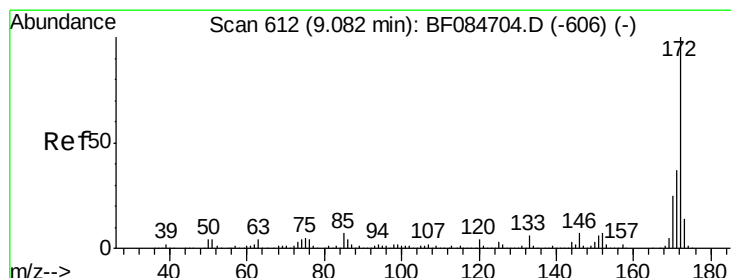
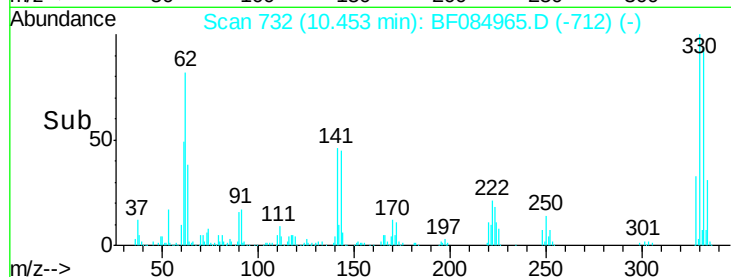
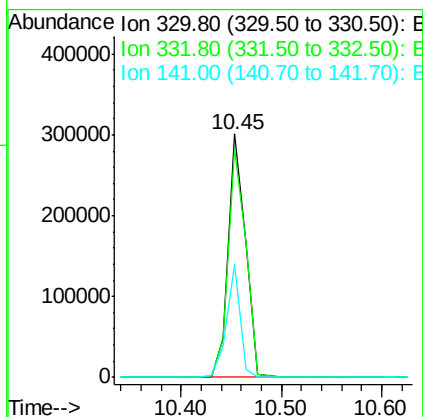
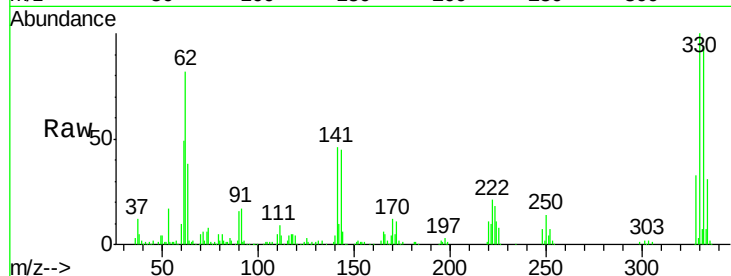




#41  
 2,4,6-Tribromophenol  
 Concen: 122.51 ng  
 RT: 10.45 min Scan# 732  
 Delta R.T. -0.07 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

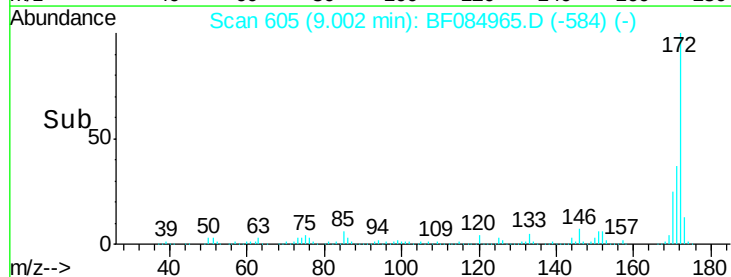
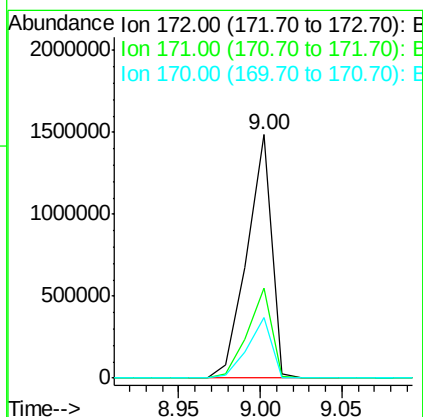
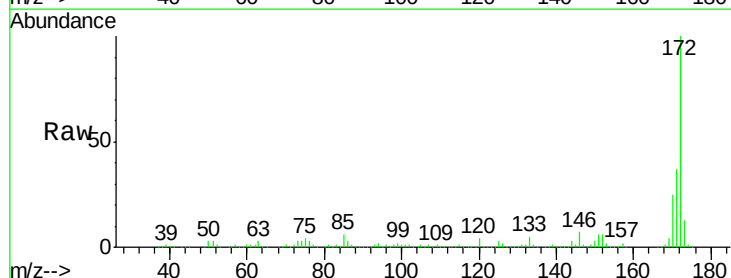
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B018(10-12)

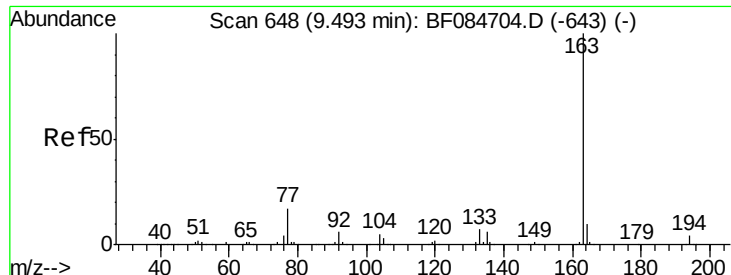
Tgt Ion:330 Resp: 360248  
 Ion Ratio Lower Upper  
 330 100  
 332 96.6 76.6 114.8  
 141 37.2 27.8 41.6



#44  
 2-Fluorobiphenyl  
 Concen: 98.02 ng  
 RT: 9.00 min Scan# 605  
 Delta R.T. -0.06 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

Tgt Ion:172 Resp: 1556613  
 Ion Ratio Lower Upper  
 172 100  
 171 37.0 28.9 43.3  
 170 24.9 18.6 27.8

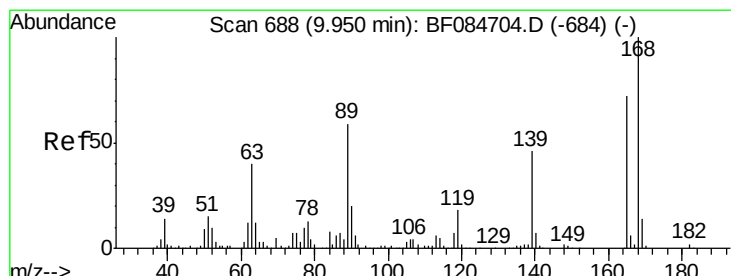
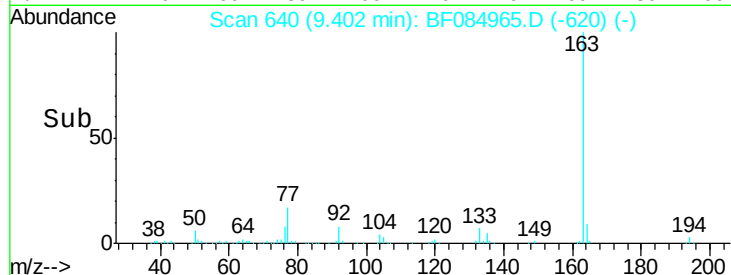
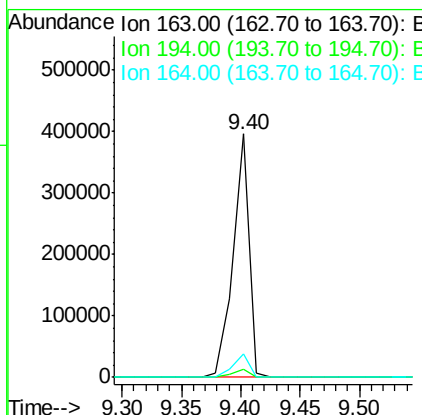
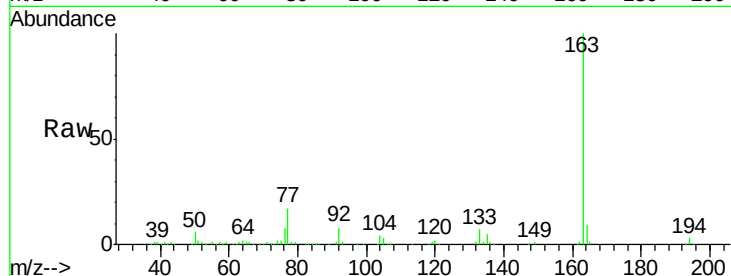




#49  
Dimethylphthalate  
Concen: 17.29 ng  
RT: 9.40 min Scan# 640  
Delta R.T. -0.07 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

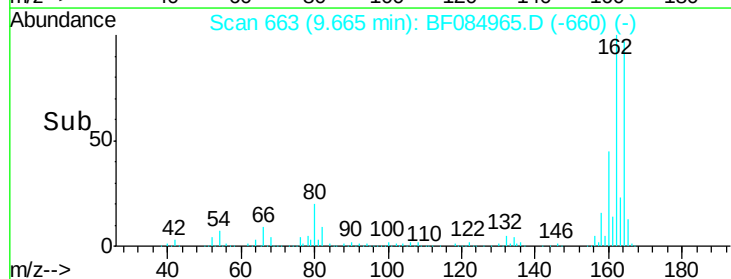
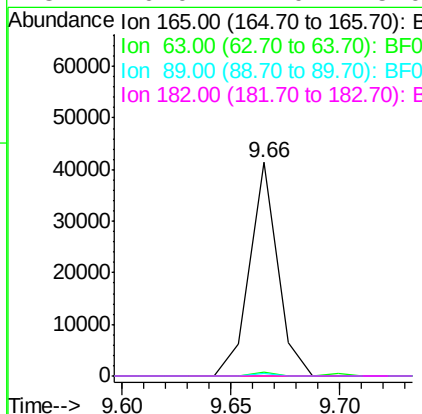
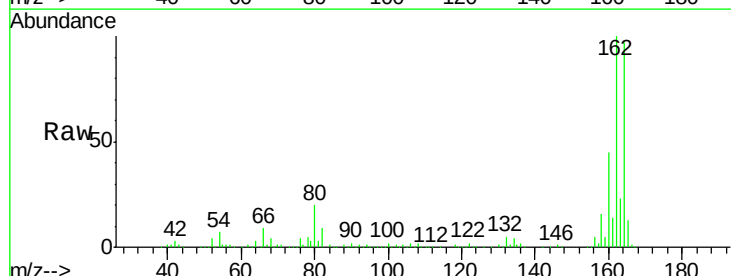
Instrument :  
BNA\_F  
ClientSampleId :  
S4-B018(10-12)

Tgt Ion:163 Resp: 371319  
Ion Ratio Lower Upper  
163 100  
194 3.4 8.0 12.0#  
164 9.4 8.0 12.0

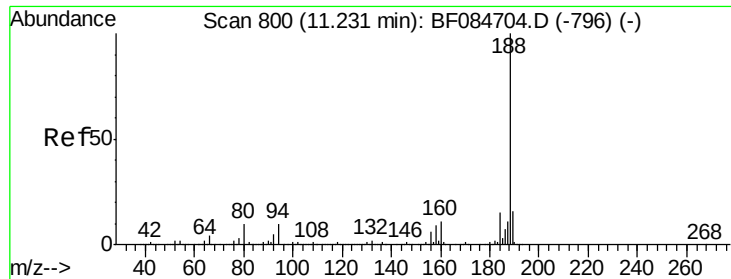


#56  
2,4-Dinitrotoluene  
Concen: 6.20 ng  
RT: 9.66 min Scan# 663  
Delta R.T. -0.26 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

Tgt Ion:165 Resp: 37082  
Ion Ratio Lower Upper  
165 100  
63 1.7 36.7 55.1#  
89 1.3 61.9 92.9#  
182 0.0 2.0 3.0#



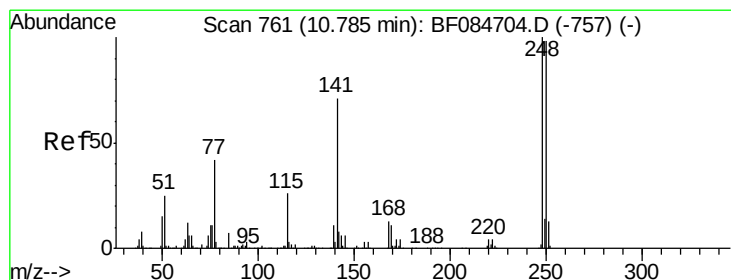
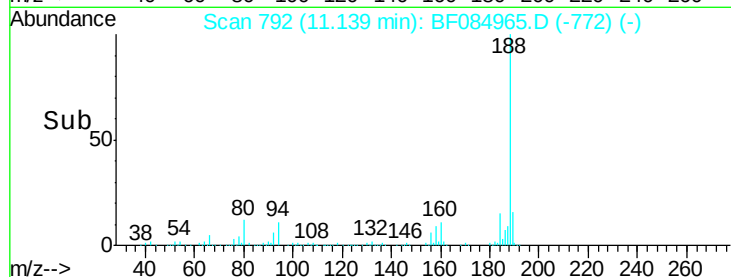
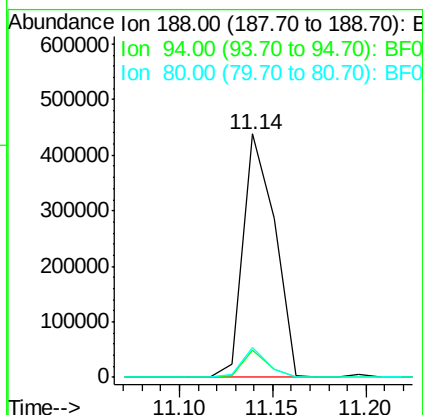
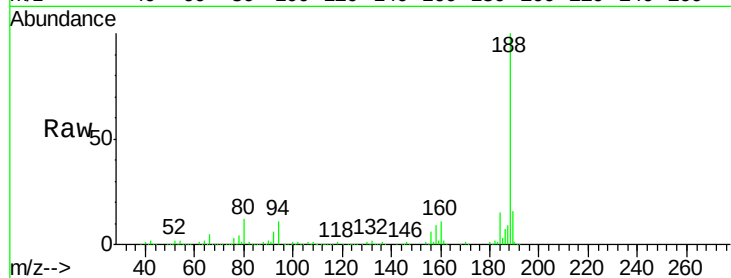




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.14 min Scan# 792  
Delta R.T. -0.07 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

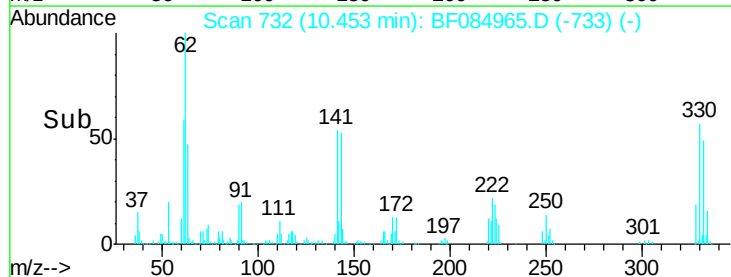
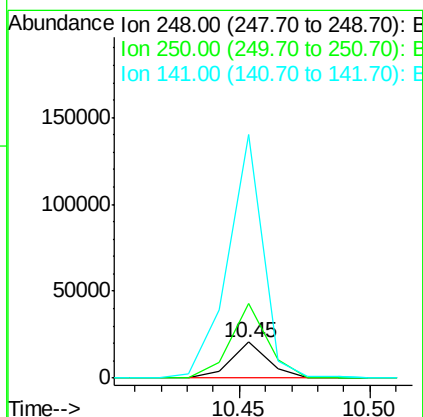
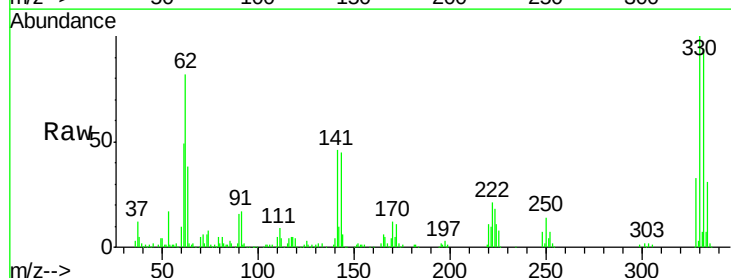
Instrument :  
BNA\_F  
ClientSampleId :  
S4-B018(10-12)

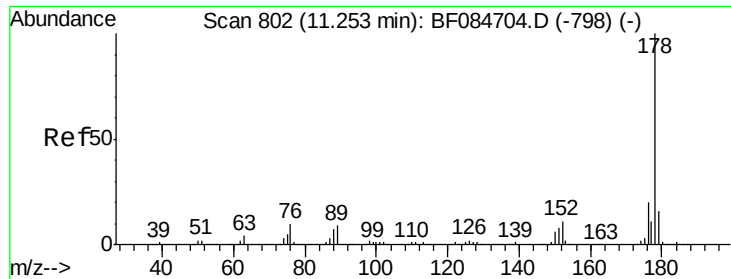
Tgt Ion:188 Resp: 515953  
Ion Ratio Lower Upper  
188 100  
94 11.3 9.0 13.4  
80 12.3 9.6 14.4



#66  
4-Bromophenyl-phenylether  
Concen: 3.63 ng  
RT: 10.45 min Scan# 732  
Delta R.T. -0.31 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

Tgt Ion:248 Resp: 20665  
Ion Ratio Lower Upper  
248 100  
250 207.8 78.4 117.6#  
141 673.8 44.0 66.0#

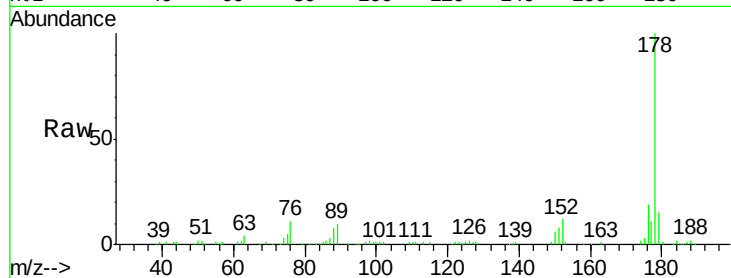




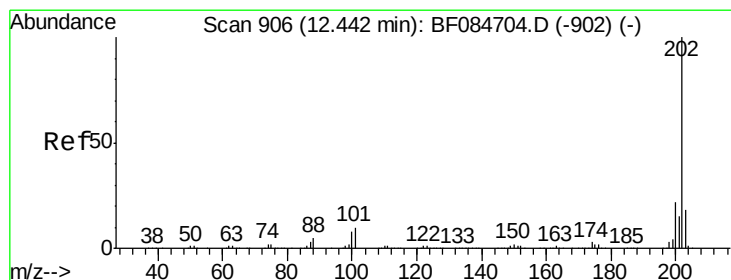
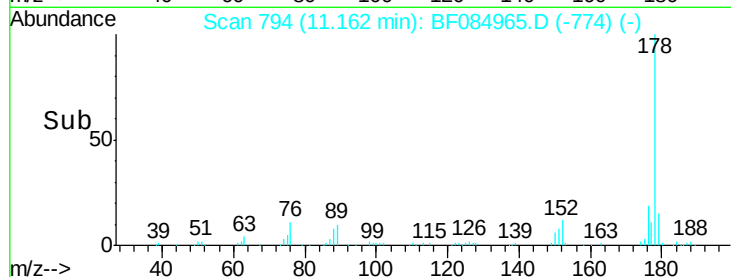
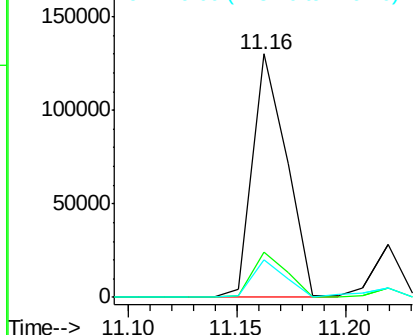
#70  
Phenanthrene  
Concen: 4.99 ng  
RT: 11.16 min Scan# 794  
Delta R.T. -0.07 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

Instrument :  
BNA\_F  
ClientSampleId :  
S4-B018(10-12)

Tgt Ion:178 Resp: 142920  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.3 22.9  
179 15.3 12.0 18.0

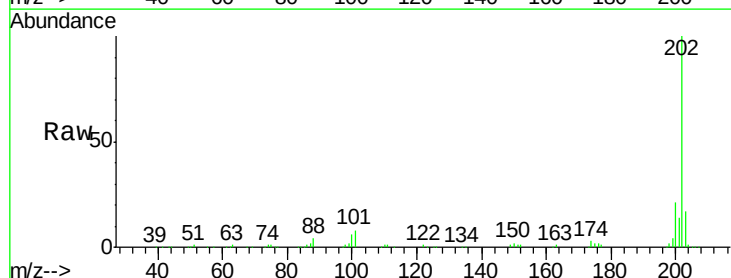


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

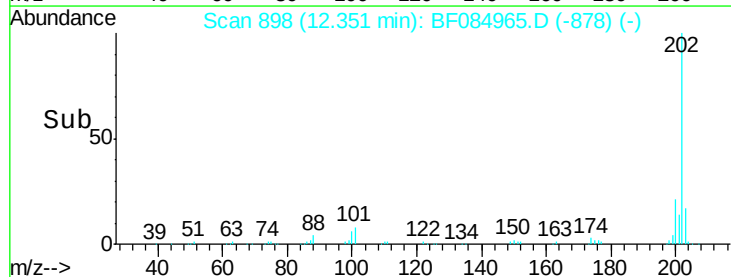
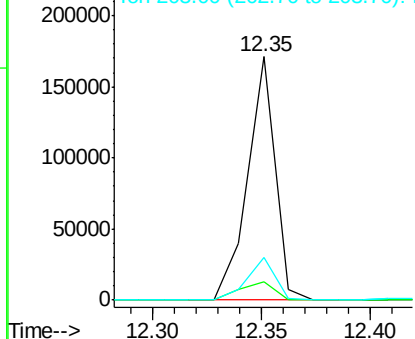


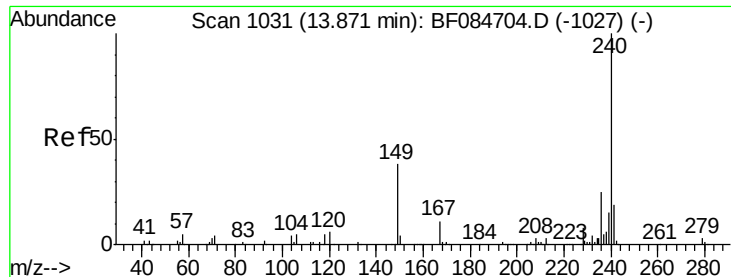
#74  
Fluoranthene  
Concen: 5.19 ng  
RT: 12.35 min Scan# 898  
Delta R.T. -0.07 min  
Lab File: BF084965.D  
Acq: 9 Feb 2016 21:20

Tgt Ion:202 Resp: 150449  
Ion Ratio Lower Upper  
202 100  
101 7.7 0.0 32.8  
203 17.4 0.0 37.9



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: 20.00 ng

RT: 13.77 min Scan# 1022

Delta R.T. -0.07 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

S4-B018(10-12)

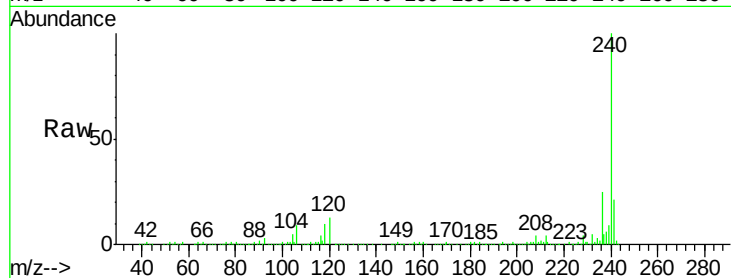
Tgt Ion:240 Resp: 436369

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

236 25.3 20.6 31.0



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

600000

500000

400000

300000

200000

100000

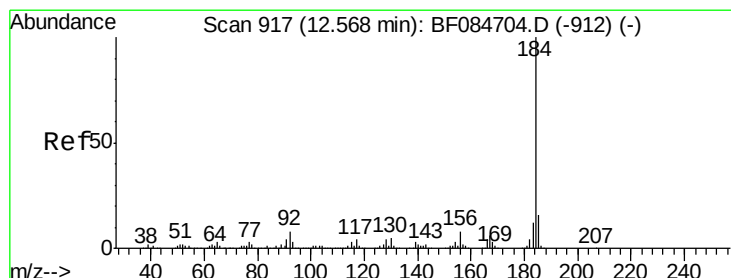
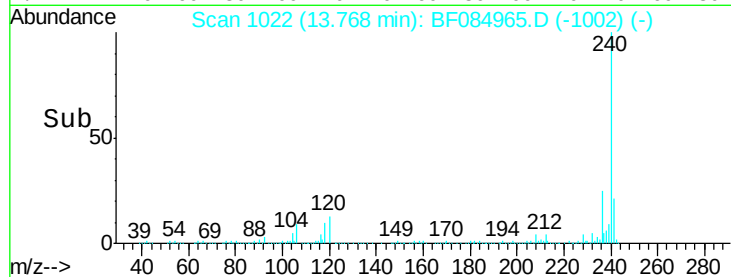
0

13.77

13.70

13.80

Time-->



#76

Benzidine

Concen: 7.69 ng

RT: 12.73 min Scan# 931

Delta R.T. 0.18 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

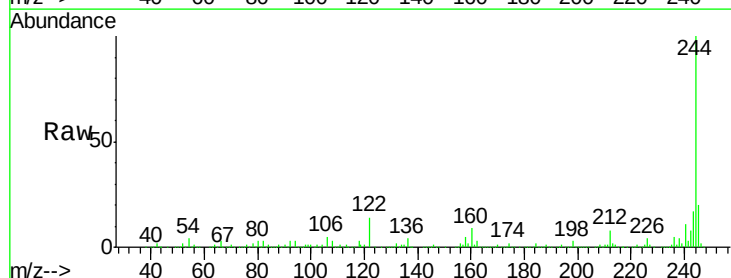
Tgt Ion:184 Resp: 18591

Ion Ratio Lower Upper

184 100

185 17.3 12.2 18.2

183 11.5 9.8 14.8



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E

20000

15000

10000

5000

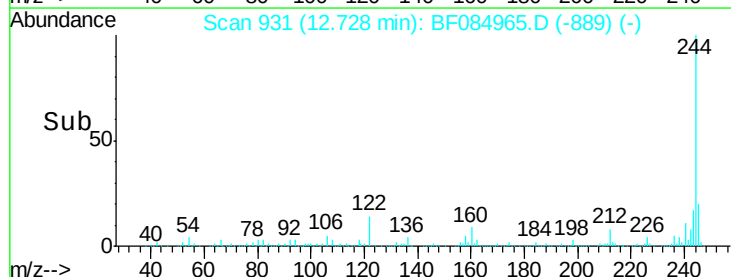
0

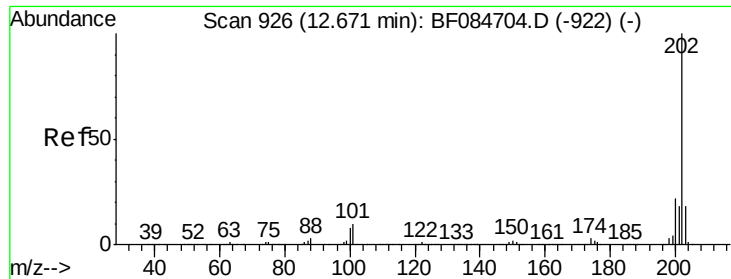
12.73

12.70

12.75

Time-->

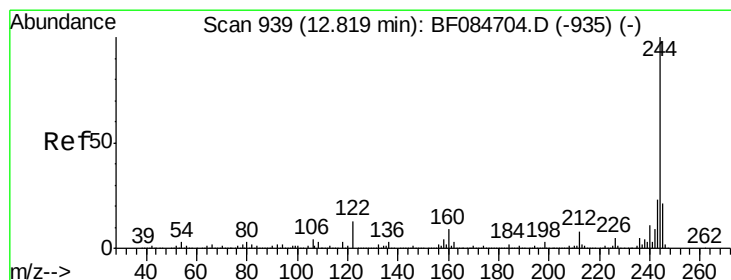
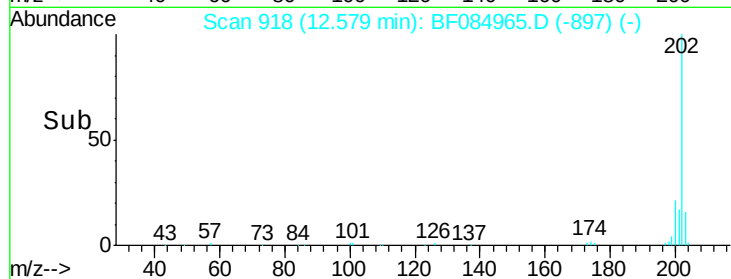
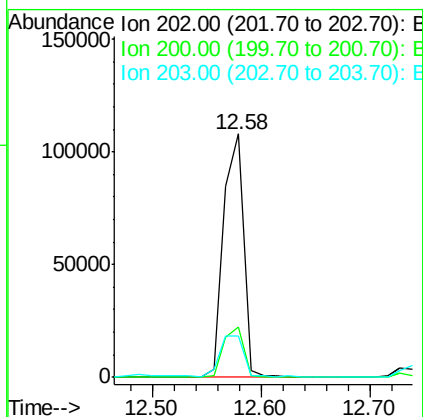
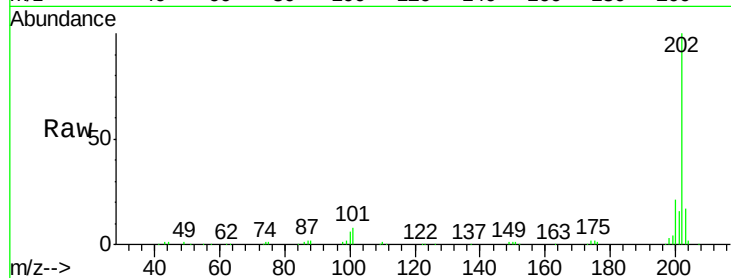




#77  
 Pyrene  
 Concen: 4.15 ng  
 RT: 12.58 min Scan# 918  
 Delta R.T. -0.06 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

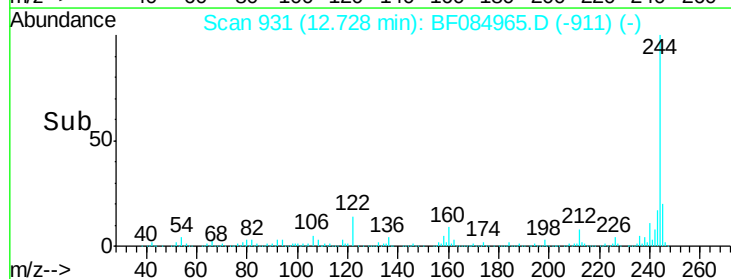
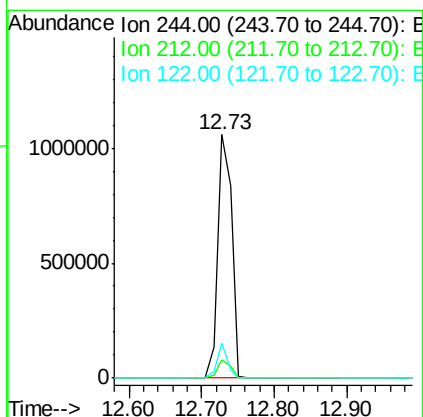
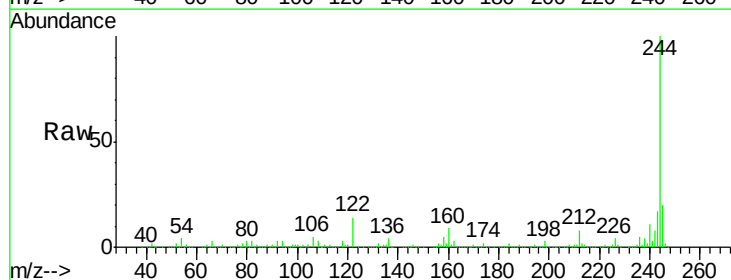
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B018(10-12)

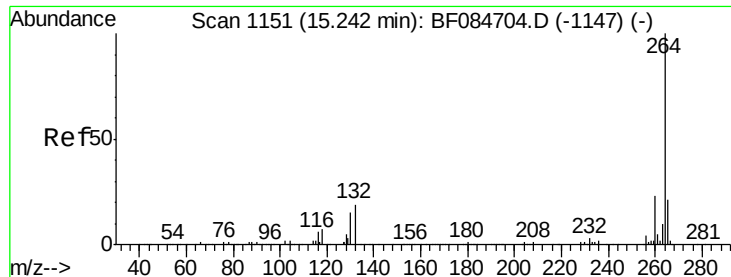
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 17.2  | 25.8  |
| 203     | 17.0  | 14.3  | 21.5  |



#78  
 Terphenyl-d14  
 Concen: 72.95 ng  
 RT: 12.73 min Scan# 931  
 Delta R.T. -0.07 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.6   | 5.7   | 8.5   |
| 122     | 14.5  | 7.4   | 11.0  |

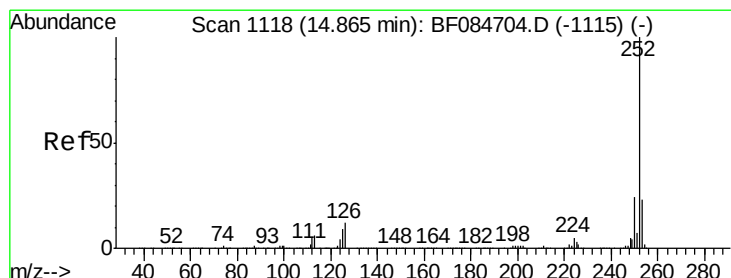
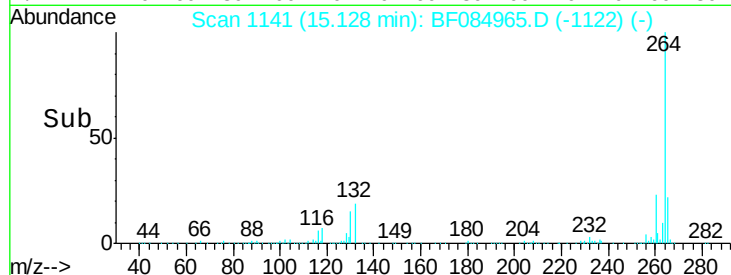
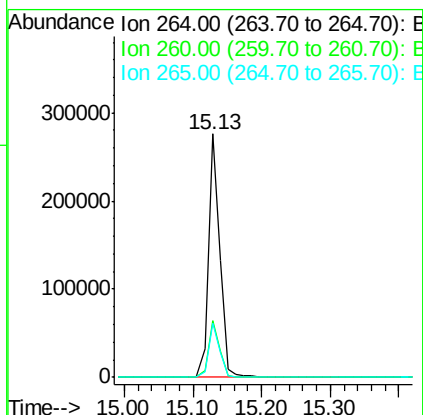
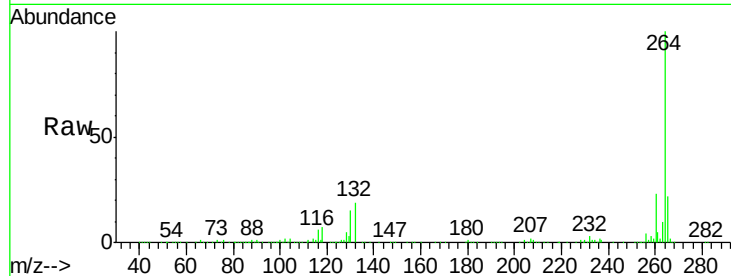




#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.13 min Scan# 1141  
 Delta R.T. -0.08 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

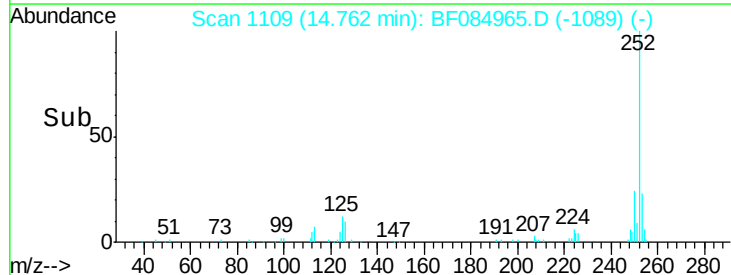
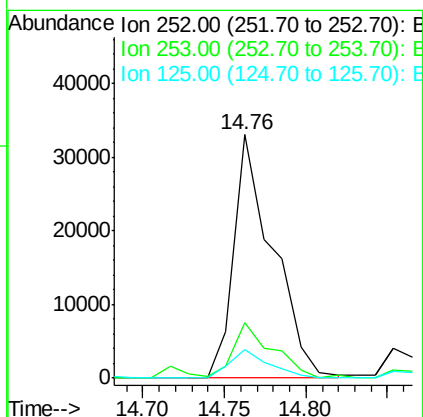
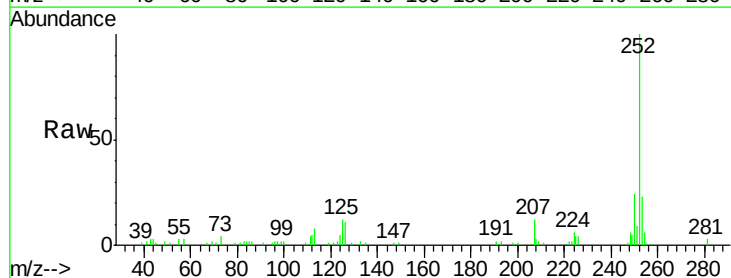
Instrument :  
 BNA\_F  
 ClientSampleId :  
 S4-B018(10-12)

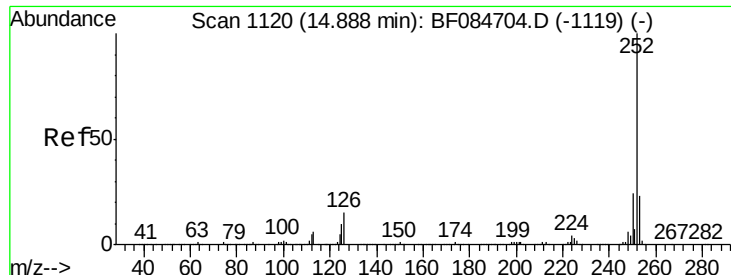
Tgt Ion: 264 Resp: 316181  
 Ion Ratio Lower Upper  
 264 100  
 260 23.4 19.4 29.2  
 265 22.0 17.8 26.6



#87  
 Benzo(b)fluoranthene  
 Concen: 2.57 ng  
 RT: 14.76 min Scan# 1109  
 Delta R.T. -0.07 min  
 Lab File: BF084965.D  
 Acq: 9 Feb 2016 21:20

Tgt Ion: 252 Resp: 54566  
 Ion Ratio Lower Upper  
 252 100  
 253 22.7 17.3 25.9  
 125 11.7 6.5 9.7#





#88

Benzo(k)fluoranthene

Concen: 3.11 ng

RT: 14.76 min Scan# 1109

Delta R.T. -0.09 min

Lab File: BF084965.D

Acq: 9 Feb 2016 21:20

Instrument :

BNA\_F

ClientSampleId :

S4-B018(10-12)

Tgt Ion: 252 Resp: 54566

Ion Ratio Lower Upper

252 100

253 22.7 18.1 27.1

125 11.7 9.0 13.6

