

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031116\  
 Data File : BF085386.D  
 Acq On : 11 Mar 2016 21:55  
 Operator : UM/SJ  
 Sample : H1758-04  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-18-20160310

Quant Time: Mar 11 23:38:49 2016  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 04 00:54:58 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.94  | 152  | 155832   | 20.00 | ng    | -0.05    |
| 21) Naphthalene-d8        | 8.22  | 136  | 568139   | 20.00 | ng    | -0.05    |
| 38) Acenaphthene-d10      | 9.98  | 164  | 247318   | 20.00 | ng    | -0.05    |
| 63) Phenanthrene-d10      | 11.46 | 188  | 373628   | 20.00 | ng    | -0.05    |
| 75) Chrysene-d12          | 14.11 | 240  | 281556   | 20.00 | ng    | -0.05    |
| 86) Perylene-d12          | 15.57 | 264  | 286901   | 20.00 | ng    | -0.05    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.54  | 112  | 1351831  | 145.51 | ng    | -0.03    |
| 7) Phenol-d6                | 6.57  | 99   | 1857067  | 152.57 | ng    | -0.03    |
| 23) Nitrobenzene-d5         | 7.50  | 82   | 964732   | 90.87  | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol    | 10.77 | 330  | 274449   | 129.69 | ng    | -0.05    |
| 44) 2-Fluorobiphenyl        | 9.30  | 172  | 1678292  | 103.20 | ng    | -0.05    |
| 78) Terphenyl-d14           | 13.05 | 244  | 1016399  | 83.80  | ng    | -0.03    |

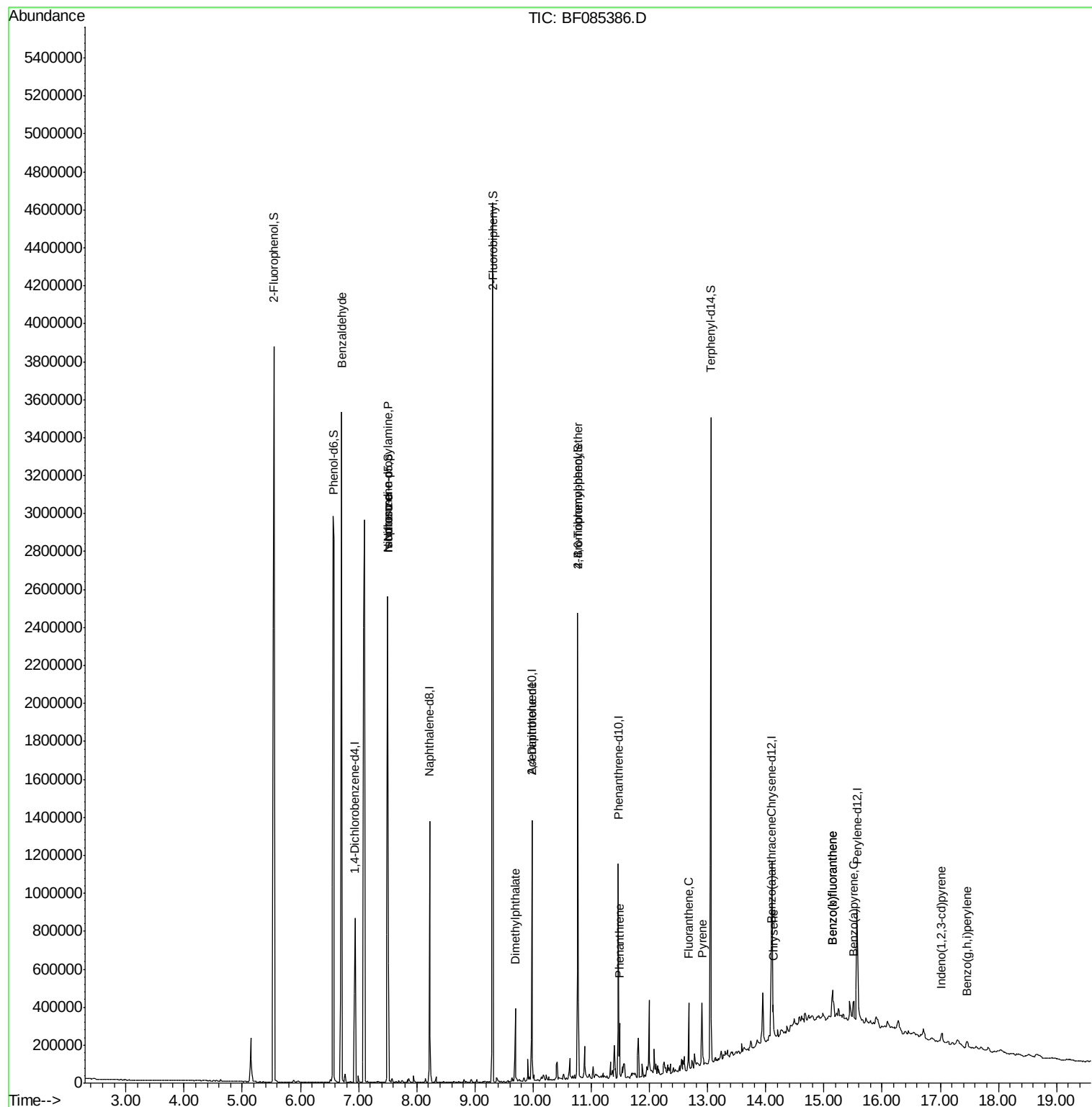
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 9) Benzaldehyde                | 6.71  | 77   | 32129    | 2.72  | ng    | 91     |
| 19) n-Nitroso-di-n-propylamine | 7.50  | 70   | 128569   | 16.21 | ng    | # 78   |
| 25) Isophorone                 | 7.50  | 82   | 768511   | 39.06 | ng    | # 67   |
| 49) Dimethylphthalate          | 9.69  | 163  | 159398   | 8.40  | ng    | 99     |
| 56) 2,4-Dinitrotoluene         | 9.98  | 165  | 32129    | 6.18  | ng    | # 22   |
| 66) 4-Bromophenyl-phenylether  | 10.77 | 248  | 19460    | 5.36  | ng    | # 1    |
| 70) Phenanthrene               | 11.49 | 178  | 97794    | 4.99  | ng    | 96     |
| 74) Fluoranthene               | 12.68 | 202  | 128796   | 6.55  | ng    | 97     |
| 77) Pyrene                     | 12.91 | 202  | 128617   | 6.07  | ng    | 97     |
| 80) Benzo(a)anthracene         | 14.09 | 228  | 80498    | 4.78  | ng    | 99     |
| 82) Chrysene                   | 14.13 | 228  | 54684    | 3.51  | ng    | 96     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.02 | 276  | 30961    | 2.55  | ng    | # 88   |
| 87) Benzo(b)fluoranthene       | 15.15 | 252  | 114767   | 6.00  | ng    | # 95   |
| 88) Benzo(k)fluoranthene       | 15.15 | 252  | 114767   | 7.44  | ng    | # 94   |
| 89) Benzo(a)pyrene             | 15.51 | 252  | 60406    | 3.81  | ng    | # 90   |
| 91) Benzo(g,h,i)perylene       | 17.47 | 276  | 31621    | 2.32  | ng    | 98     |

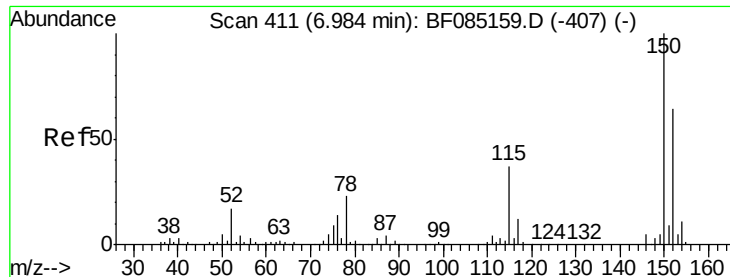
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF031116\  
Data File : BF085386.D  
Acq On : 11 Mar 2016 21:55  
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Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-18-20160310

Quant Time: Mar 11 23:38:49 2016  
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF030316.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Mar 04 00:54:58 2016  
Response via : Initial Calibration

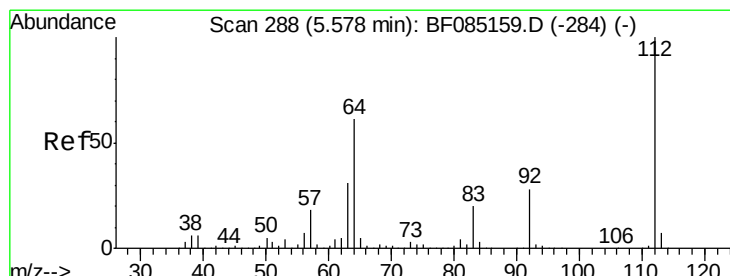
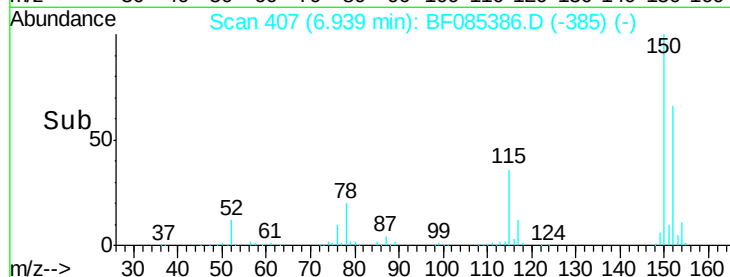
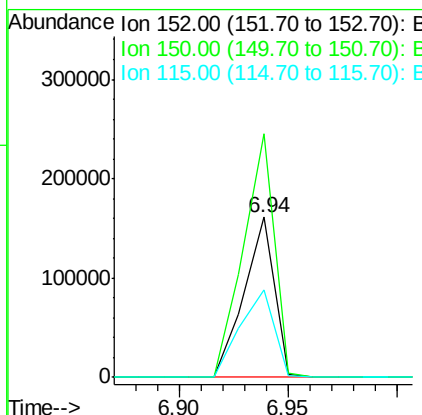
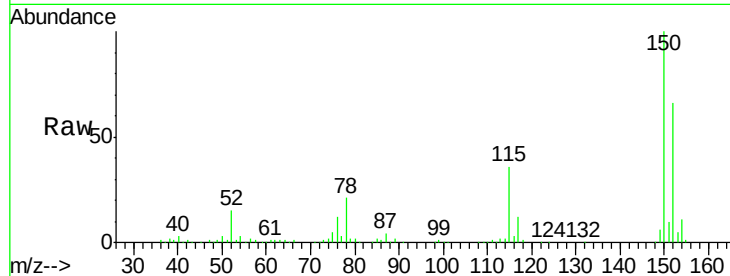




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.94 min Scan# 407  
 Delta R.T. -0.05 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

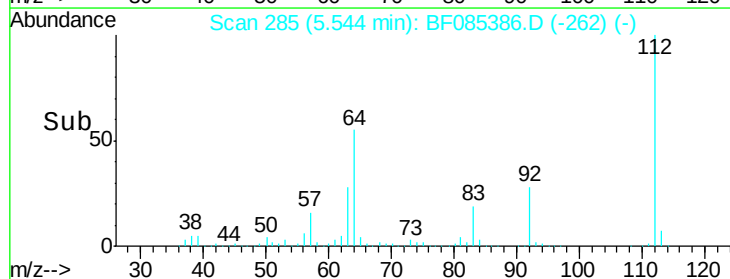
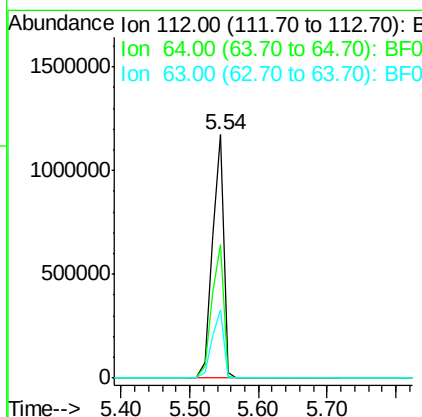
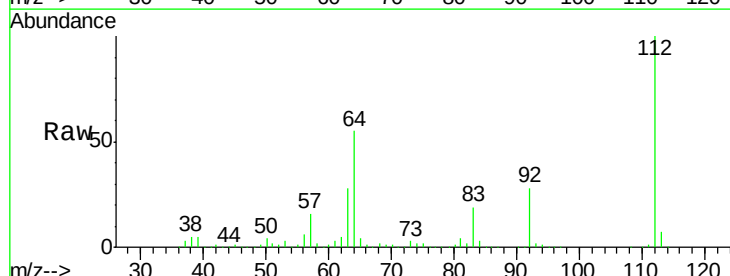
Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-18-20160310

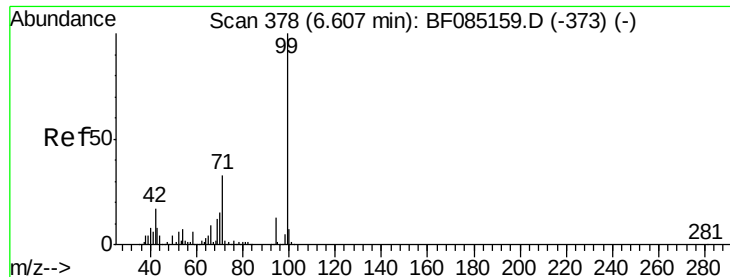
Tgt Ion:152 Resp: 155832  
 Ion Ratio Lower Upper  
 152 100  
 150 152.3 124.6 186.8  
 115 54.9 46.6 70.0



#5  
 2-Fluorophenol  
 Concen: 145.51 ng  
 RT: 5.54 min Scan# 285  
 Delta R.T. -0.03 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Tgt Ion:112 Resp: 1351831  
 Ion Ratio Lower Upper  
 112 100  
 64 54.7 49.0 73.4  
 63 27.8 24.8 37.2





#7

Phenol-d6

Concen: 152.57 ng

RT: 6.57 min Scan# 375

Delta R.T. -0.03 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

Instrument :

BNA\_F

ClientSampleId :

POST-EX-18-20160310

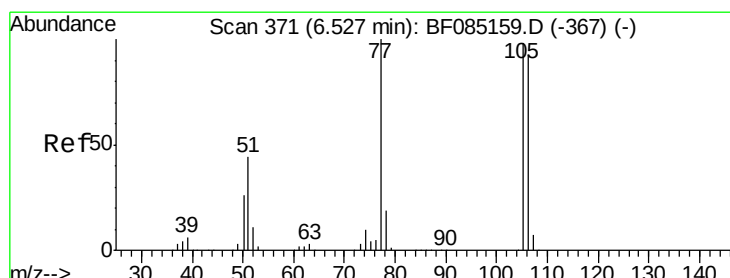
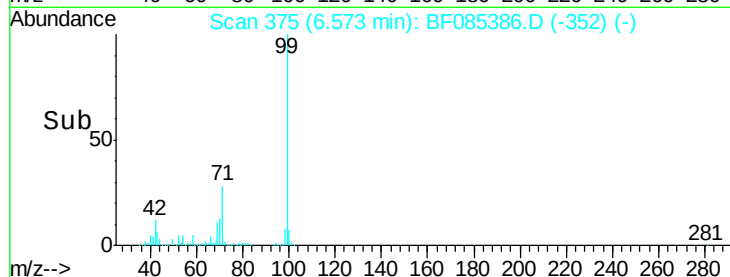
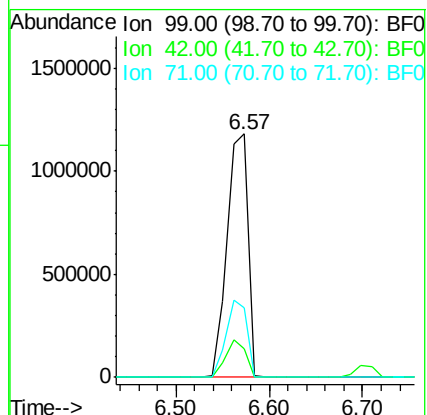
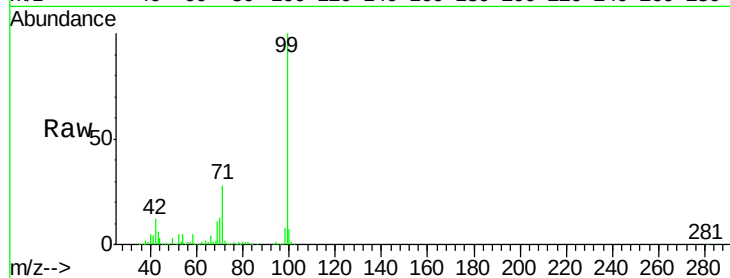
Tgt Ion: 99 Resp: 1857067

Ion Ratio Lower Upper

99 100

42 11.7 13.6 20.4#

71 28.3 26.7 40.1



#9

Benzaldehyde

Concen: 2.72 ng

RT: 6.71 min Scan# 387

Delta R.T. 0.18 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

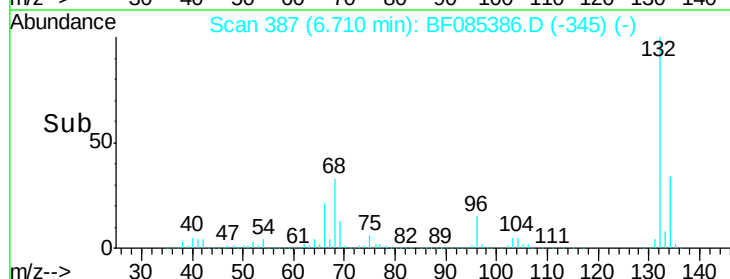
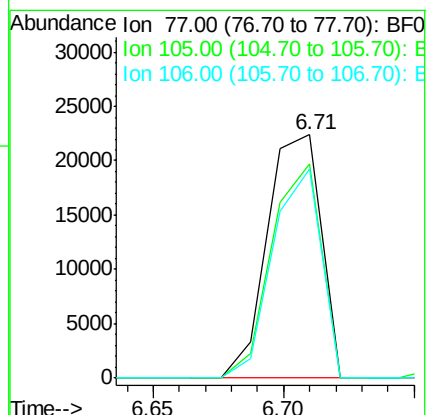
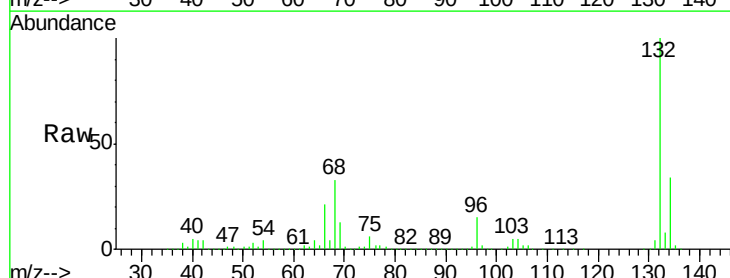
Tgt Ion: 77 Resp: 32129

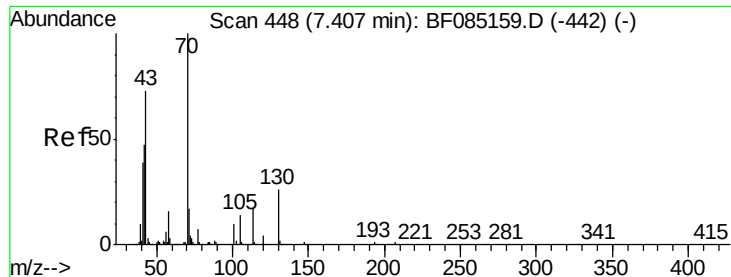
Ion Ratio Lower Upper

77 100

105 87.7 78.2 118.2

106 85.8 72.9 112.9

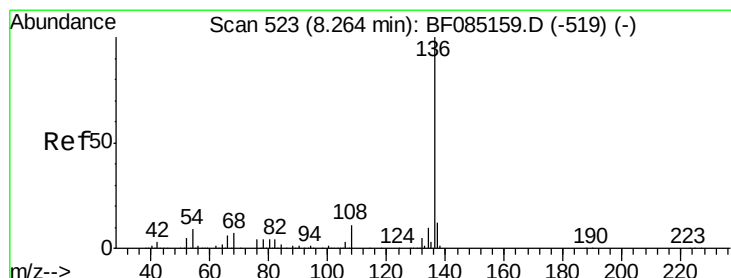
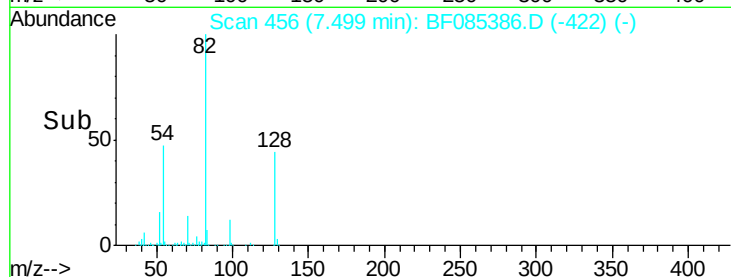
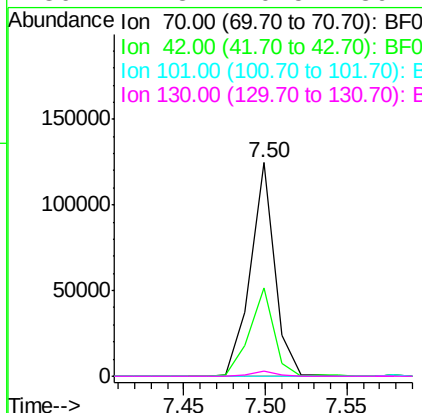
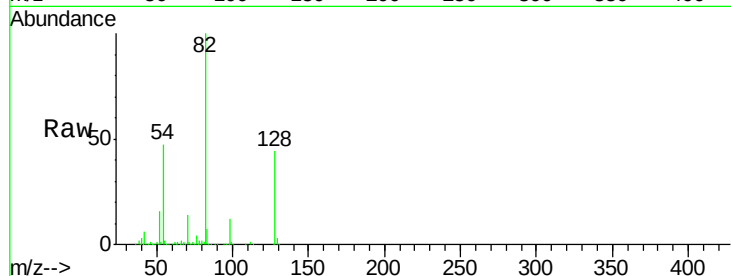




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.21 ng  
RT: 7.50 min Scan# 456  
Delta R.T. 0.09 min  
Lab File: BF085386.D  
Acq: 11 Mar 2016 21:55

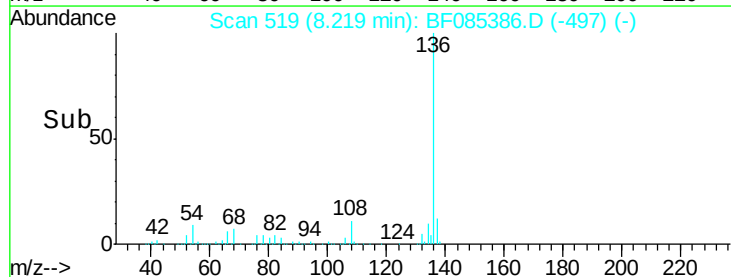
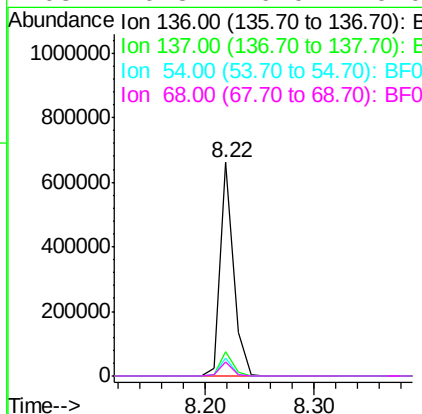
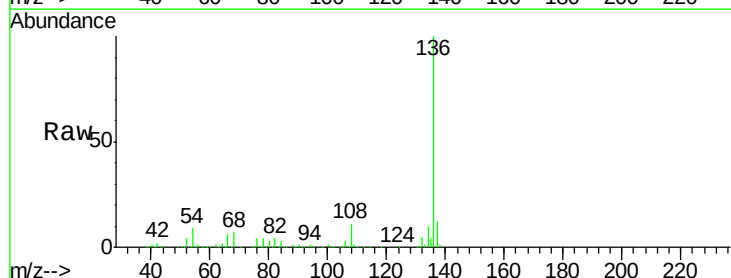
Instrument :  
BNA\_F  
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POST-EX-18-20160310

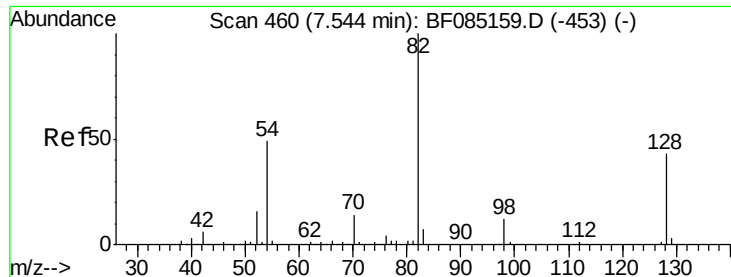
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 70    | Resp: | 128569 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 41.6  | 37.7  | 56.5   |
| 101      | 0.0   | 8.2   | 12.4#  |
| 130      | 2.3   | 20.5  | 30.7#  |



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.22 min Scan# 519  
Delta R.T. -0.05 min  
Lab File: BF085386.D  
Acq: 11 Mar 2016 21:55

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 568139 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.5  | 9.3   | 13.9   |
| 54       | 8.5   | 7.4   | 11.2   |
| 68       | 6.8   | 6.0   | 9.0    |

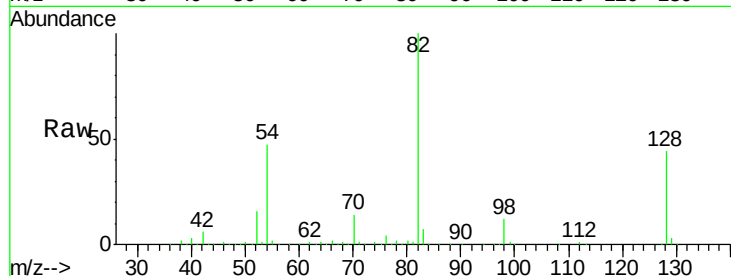




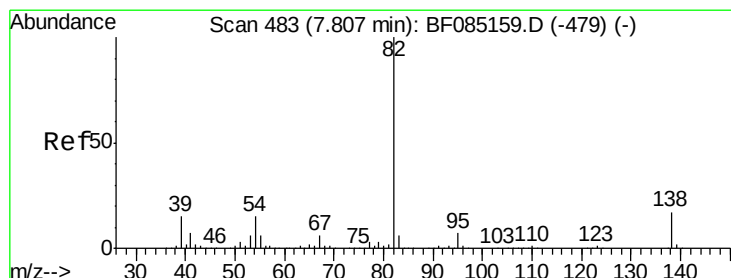
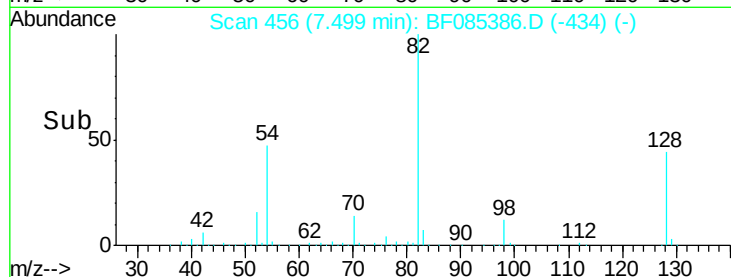
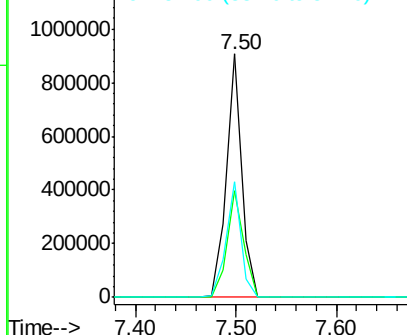
#23  
 Nitrobenzene-d5  
 Concen: 90.87 ng  
 RT: 7.50 min Scan# 456  
 Delta R.T. -0.05 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-18-20160310

Tgt Ion: 82 Resp: 964732  
 Ion Ratio Lower Upper  
 82 100  
 128 43.8 34.5 51.7  
 54 47.5 39.3 58.9

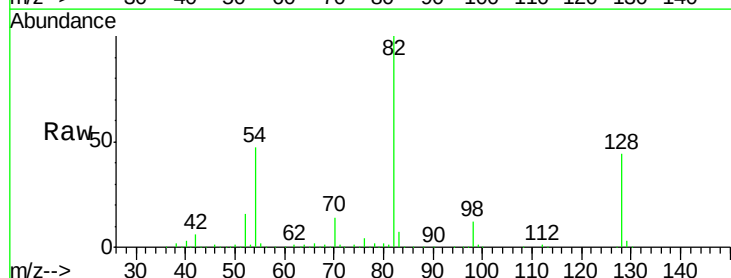


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): BF0  
 Ion 54.00 (53.70 to 54.70): BF0

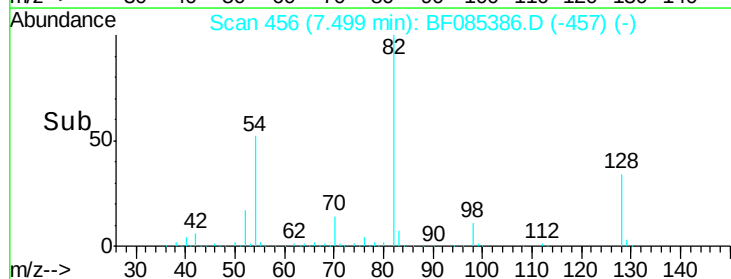
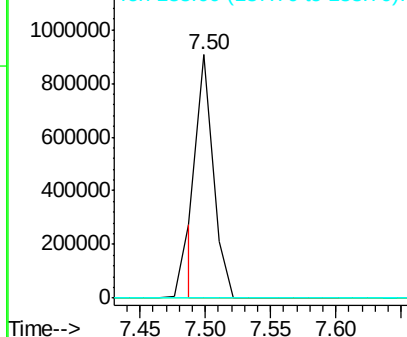


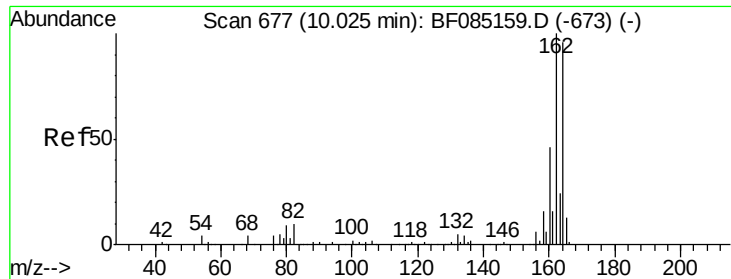
#25  
 Isophorone  
 Concen: 39.06 ng  
 RT: 7.50 min Scan# 456  
 Delta R.T. -0.31 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Tgt Ion: 82 Resp: 768511  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.2#  
 138 0.0 13.3 19.9#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 95.00 (94.70 to 95.70): BF0  
 Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.98 min Scan# 673

Delta R.T. -0.05 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

Instrument :

BNA\_F

ClientSampleId :

POST-EX-18-20160310

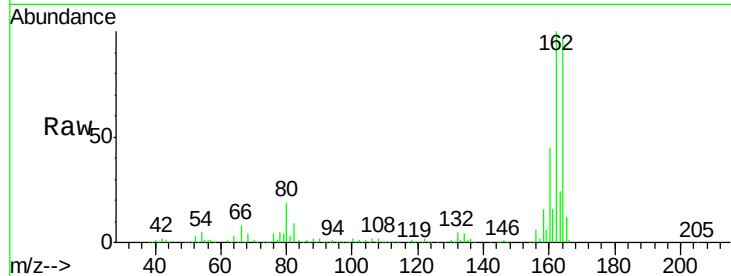
Tgt Ion:164 Resp: 247318

Ion Ratio Lower Upper

164 100

162 103.6 83.3 124.9

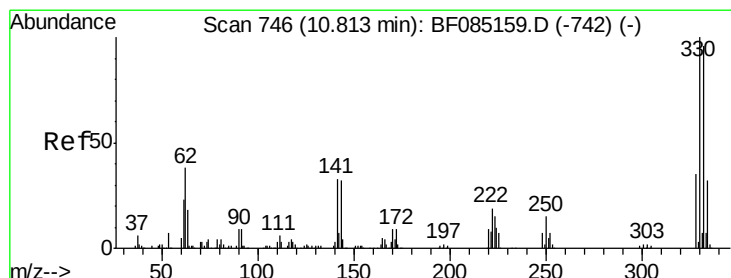
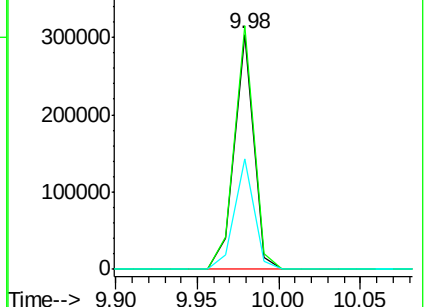
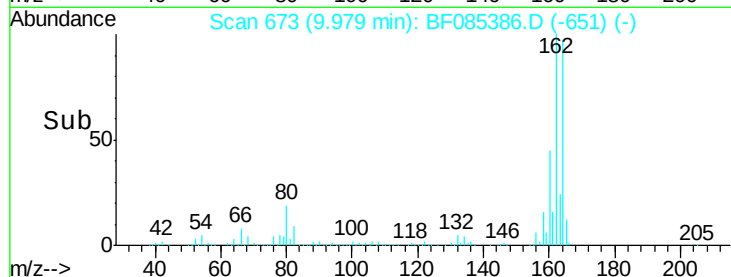
160 46.9 37.9 56.9



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: 129.69 ng

RT: 10.77 min Scan# 742

Delta R.T. -0.05 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

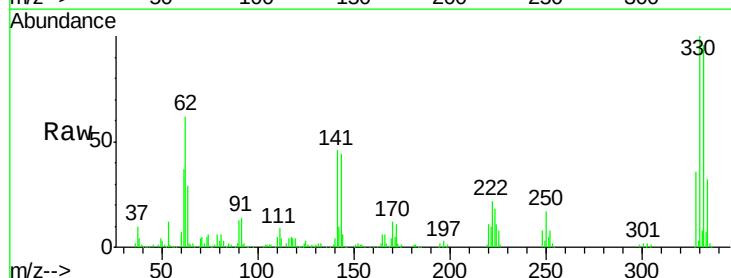
Tgt Ion:330 Resp: 274449

Ion Ratio Lower Upper

330 100

332 96.7 77.1 115.7

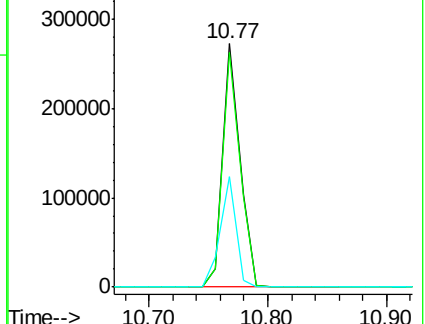
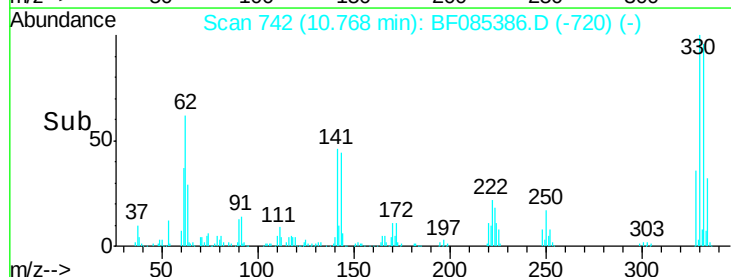
141 42.2 35.0 52.6

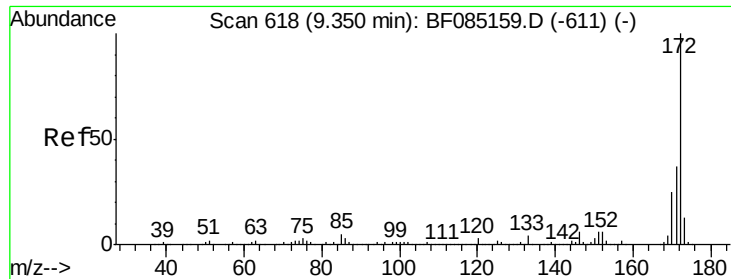


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

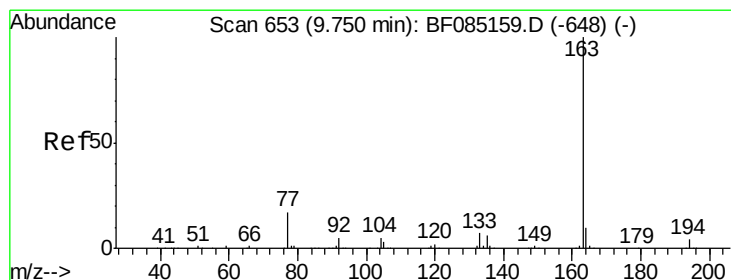
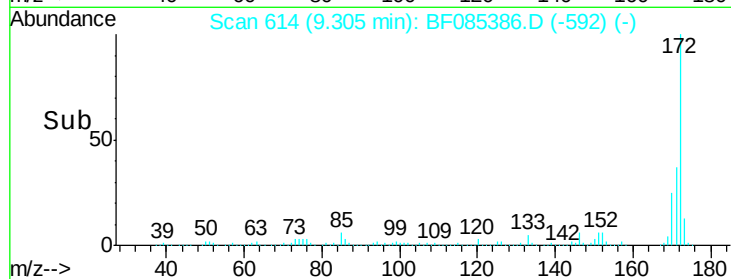
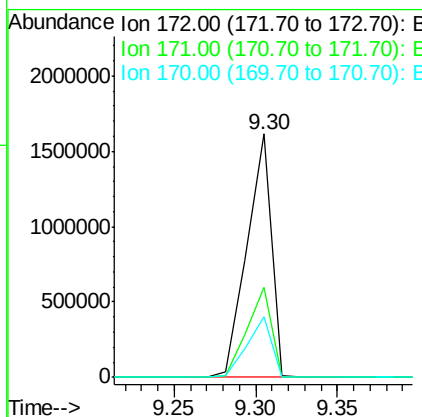
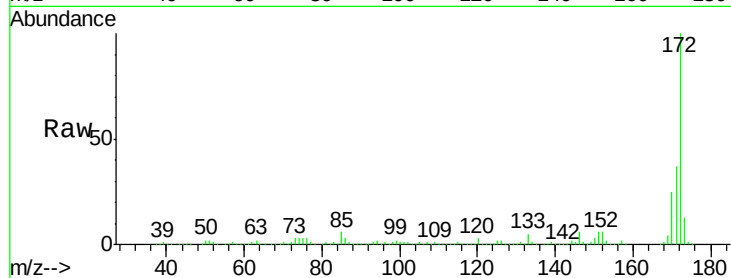




#44  
2-Fluorobiphenyl  
Concen: 103.20 ng  
RT: 9.30 min Scan# 614  
Delta R.T. -0.05 min  
Lab File: BF085386.D  
Acq: 11 Mar 2016 21:55

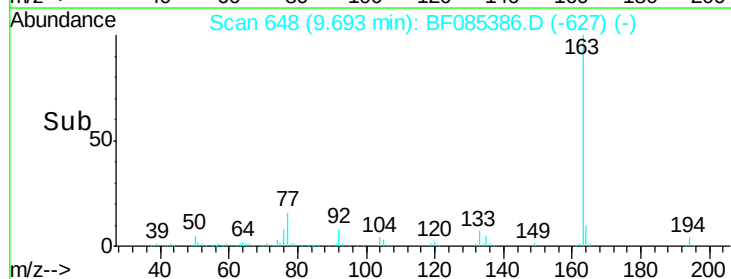
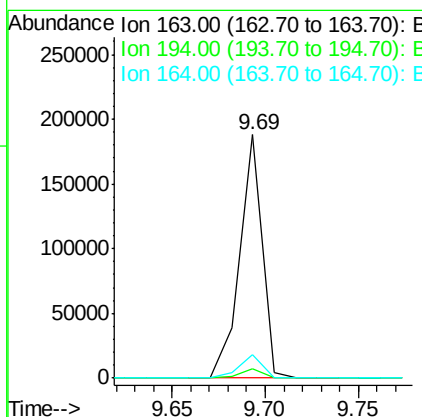
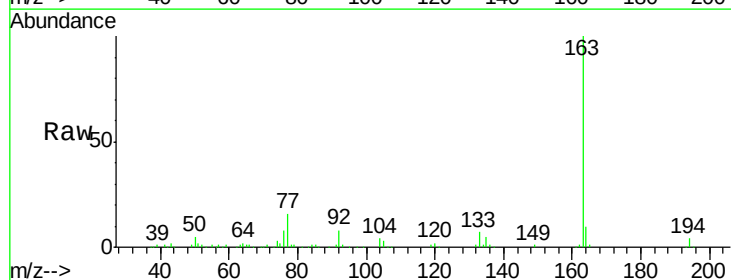
Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-18-20160310

Tgt Ion:172 Resp: 1678292  
Ion Ratio Lower Upper  
172 100  
171 36.9 29.3 43.9  
170 25.1 20.0 30.0

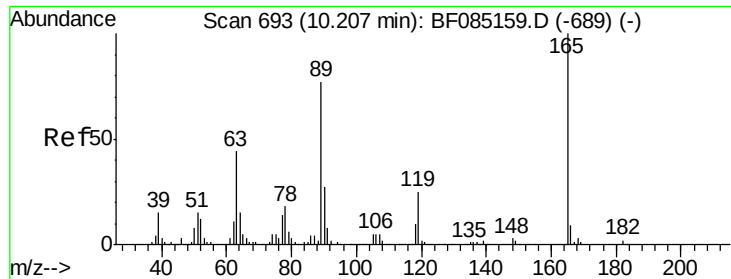


#49  
Dimethylphthalate  
Concen: 8.40 ng  
RT: 9.69 min Scan# 648  
Delta R.T. -0.06 min  
Lab File: BF085386.D  
Acq: 11 Mar 2016 21:55

Tgt Ion:163 Resp: 159398  
Ion Ratio Lower Upper  
163 100  
194 3.8 3.1 4.7  
164 9.6 8.2 12.4



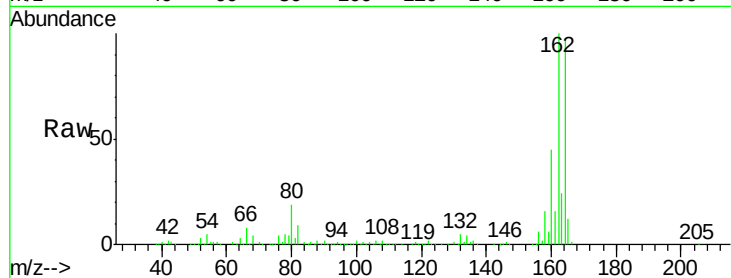




#56  
 2,4-Dinitrotoluene  
 Concen: 6.18 ng  
 RT: 9.98 min Scan# 673  
 Delta R.T. -0.23 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Instrument :  
 BNA\_F  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 35.4  | 53.0# |
| 89      | 1.7   | 61.9  | 92.9# |
| 182     | 0.0   | 1.9   | 2.9#  |

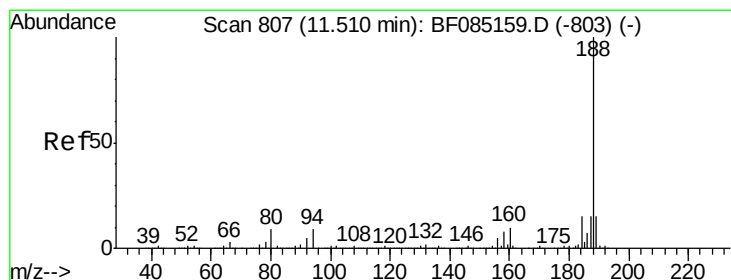
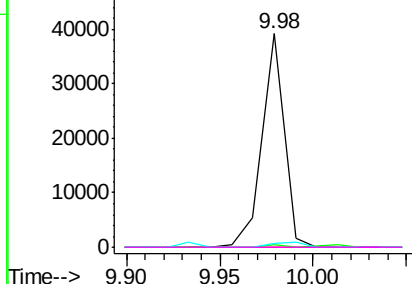
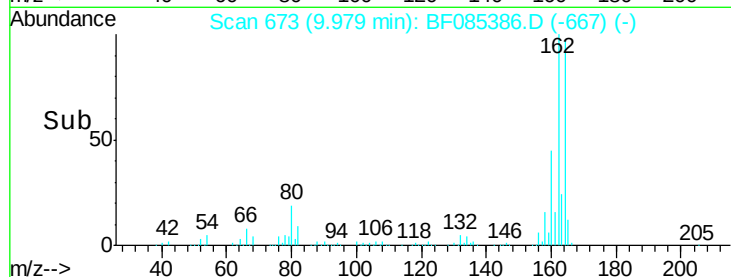


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

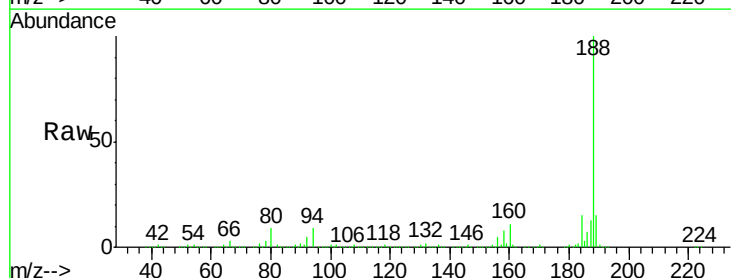
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.46 min Scan# 803  
 Delta R.T. -0.05 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

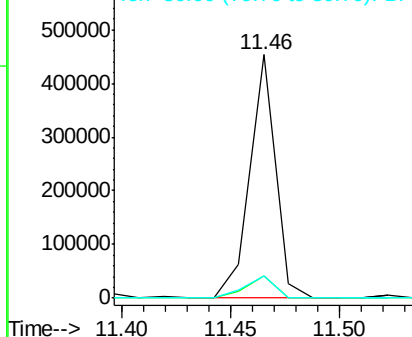
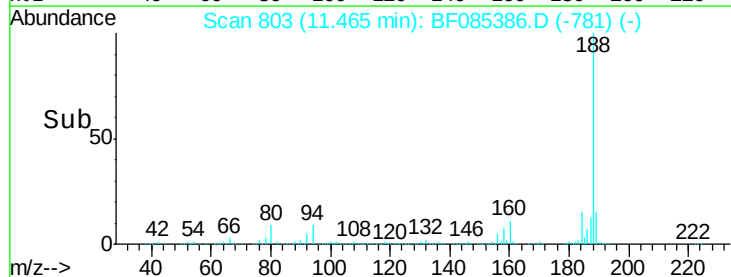
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.0   | 7.0   | 10.6  |
| 80      | 9.3   | 7.4   | 11.0  |

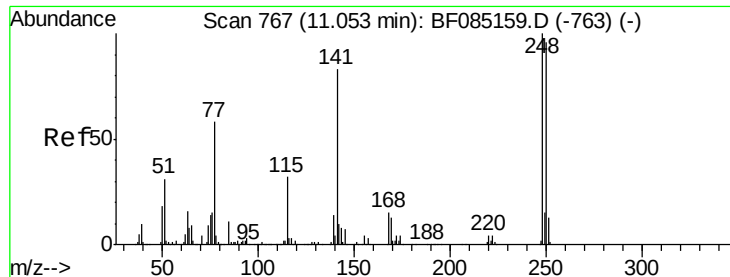


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

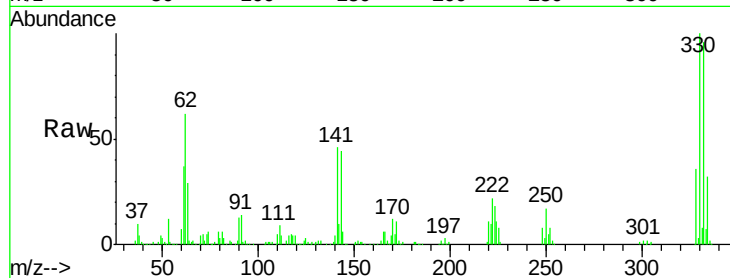




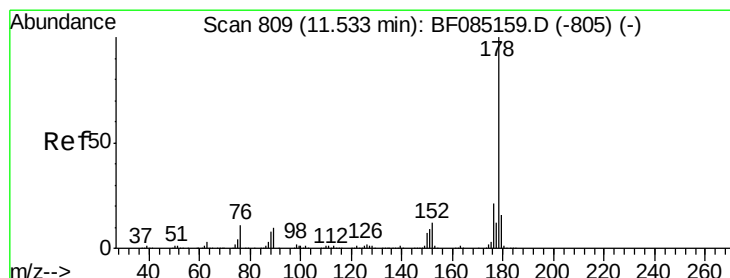
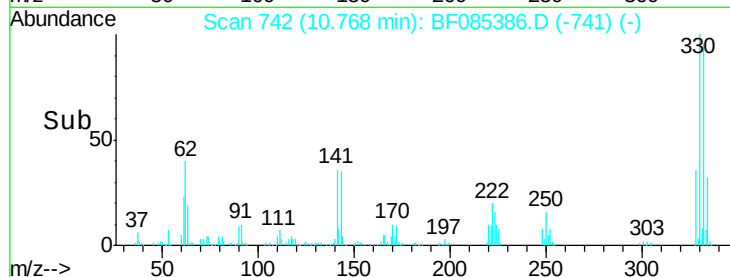
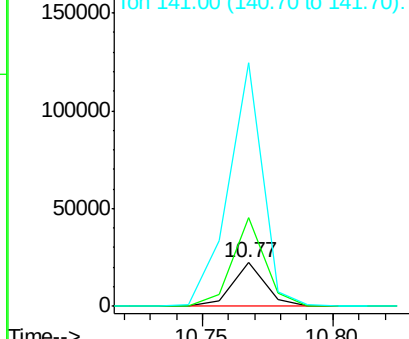
#66  
 4-Bromophenyl-phenylether  
 Concen: 5.36 ng  
 RT: 10.77 min Scan# 742  
 Delta R.T. -0.29 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-18-20160310

Tgt Ion:248 Resp: 19460  
 Ion Ratio Lower Upper  
 248 100  
 250 203.4 77.1 115.7#  
 141 557.6 66.2 99.2#

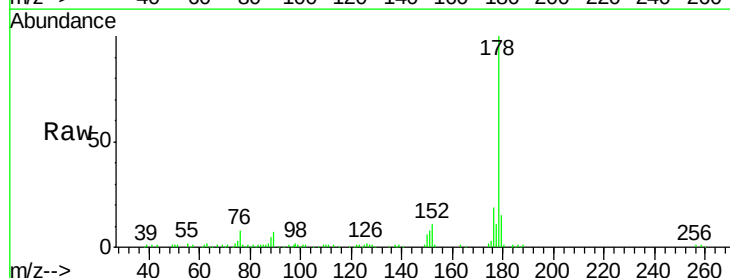


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

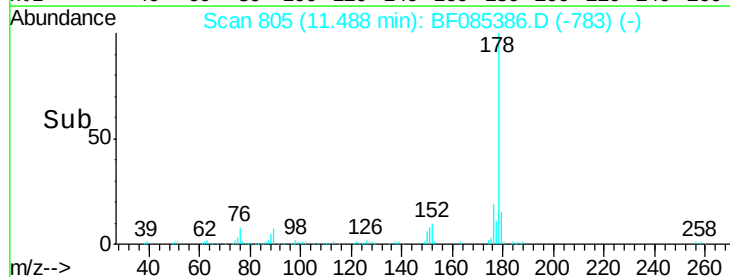
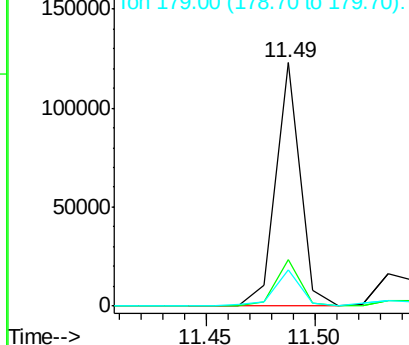


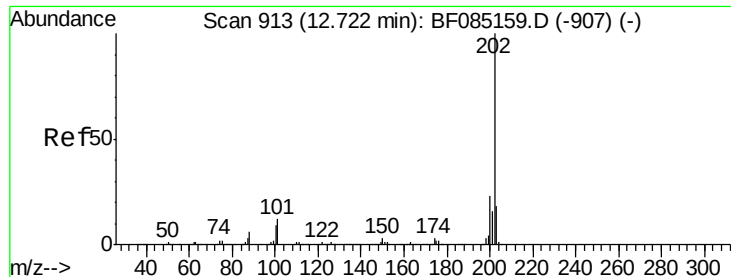
#70  
 Phenanthrene  
 Concen: 4.99 ng  
 RT: 11.49 min Scan# 805  
 Delta R.T. -0.05 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Tgt Ion:178 Resp: 97794  
 Ion Ratio Lower Upper  
 178 100  
 176 19.1 16.8 25.2  
 179 15.0 13.1 19.7



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





#74

Fluoranthene

Concen: 6.55 ng

RT: 12.68 min Scan# 909

Delta R.T. -0.05 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

Instrument :

BNA\_F

ClientSampleId :

POST-EX-18-20160310

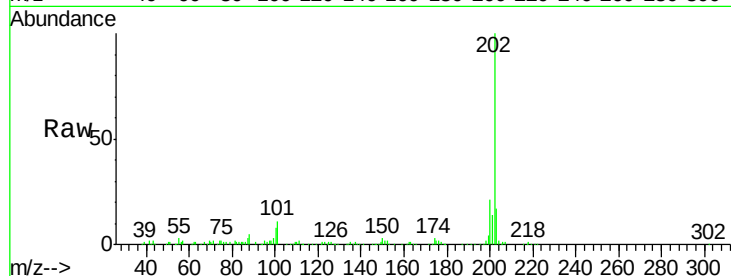
Tgt Ion:202 Resp: 128796

Ion Ratio Lower Upper

202 100

101 11.4 0.0 31.8

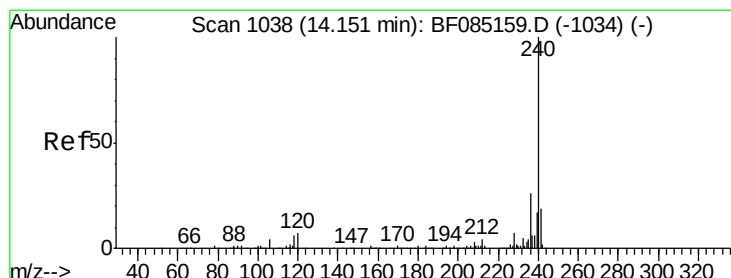
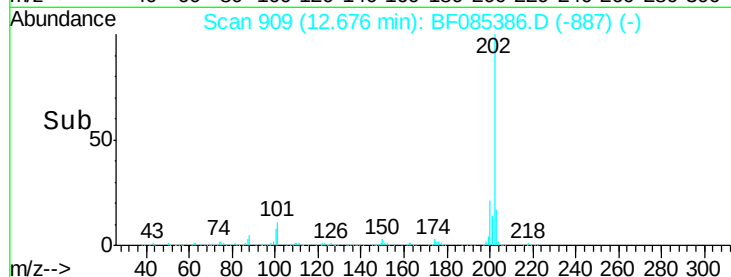
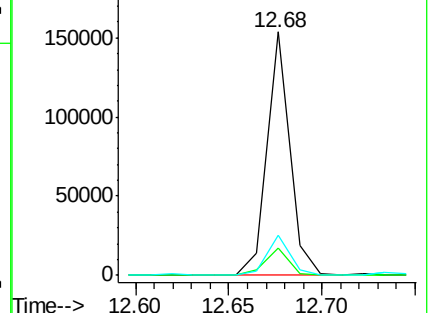
203 16.5 0.0 38.4



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: 14.11 min Scan# 1034

Delta R.T. -0.05 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

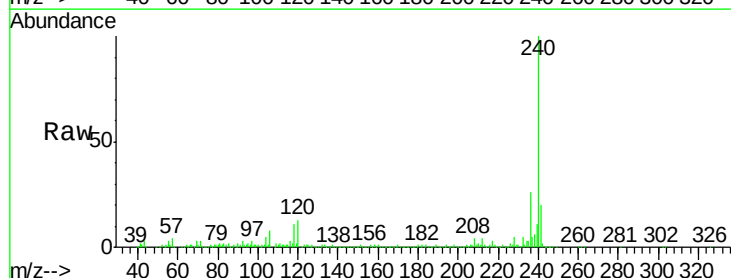
Tgt Ion:240 Resp: 281556

Ion Ratio Lower Upper

240 100

120 12.9 5.3 7.9#

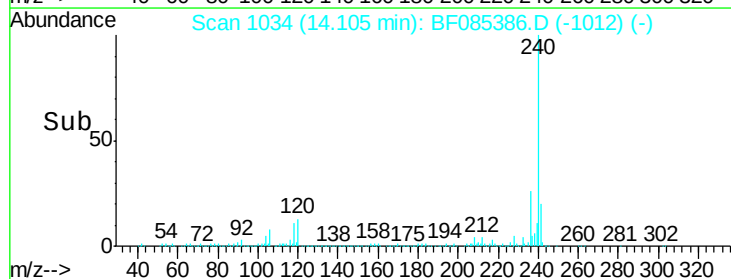
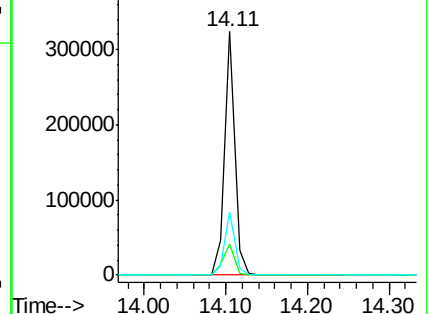
236 25.9 20.7 31.1

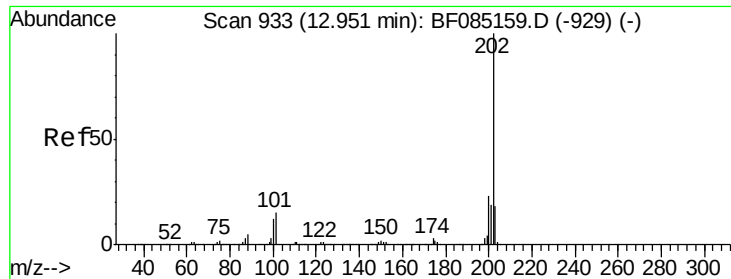


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

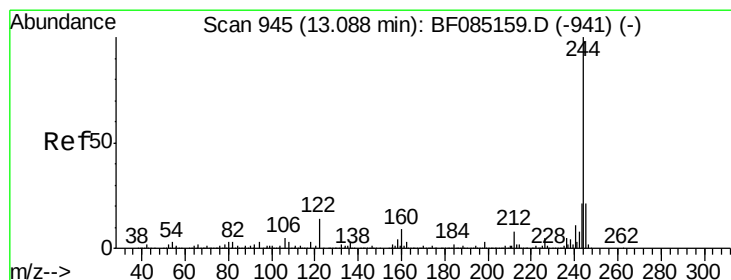
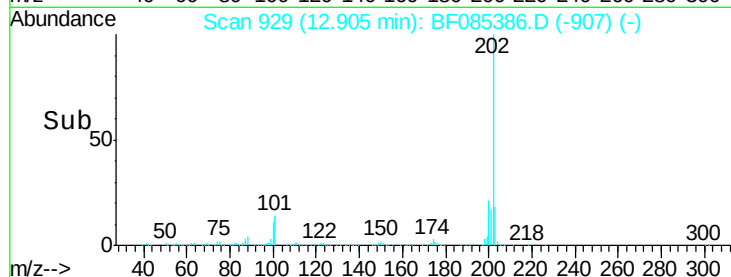
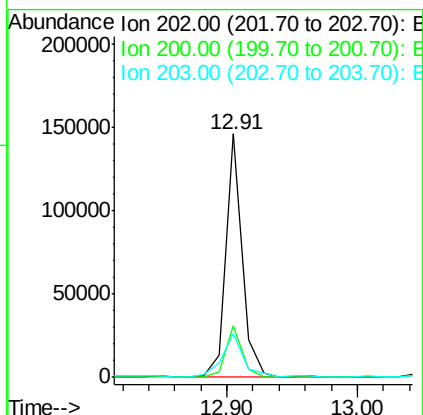
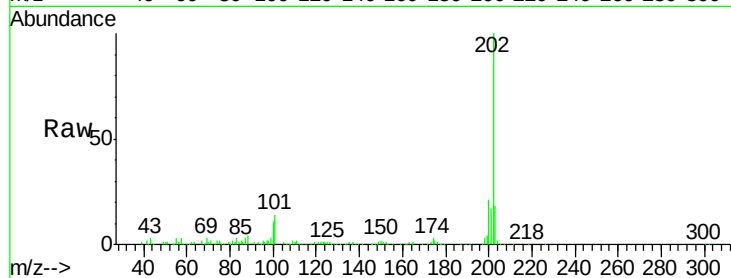




#77  
 Pyrene  
 Concen: 6.07 ng  
 RT: 12.91 min Scan# 929  
 Delta R.T. -0.05 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

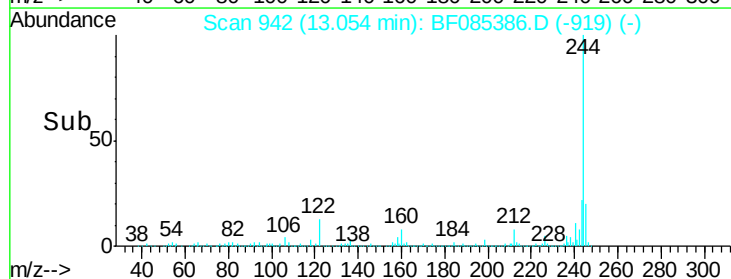
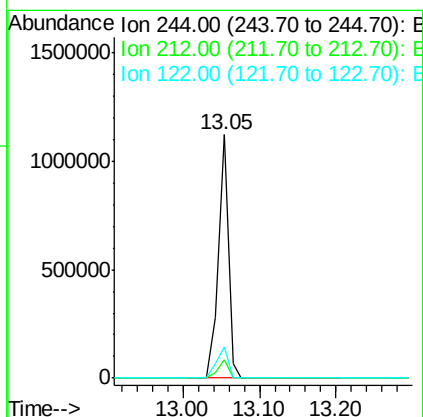
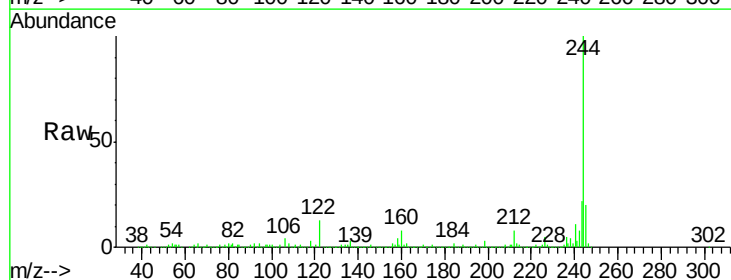
Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-18-20160310

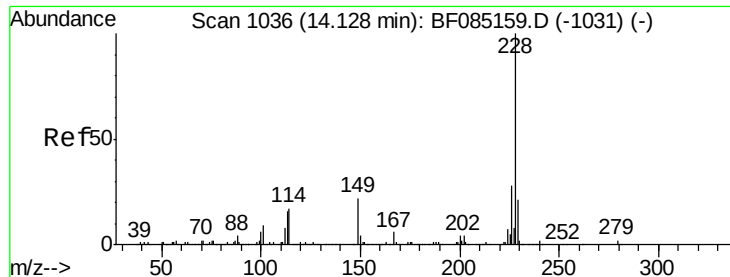
Tgt Ion: 202 Resp: 128617  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 18.2 27.4  
 203 17.9 14.7 22.1



#78  
 Terphenyl-d14  
 Concen: 83.80 ng  
 RT: 13.05 min Scan# 942  
 Delta R.T. -0.03 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Tgt Ion: 244 Resp: 1016399  
 Ion Ratio Lower Upper  
 244 100  
 212 7.6 6.4 9.6  
 122 12.9 11.4 17.2





#80

Benzo(a)anthracene

Concen: 4.78 ng

RT: 14.09 min Scan# 1033

Delta R.T. -0.03 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

Instrument :

BNA\_F

ClientSampleId :

POST-EX-18-20160310

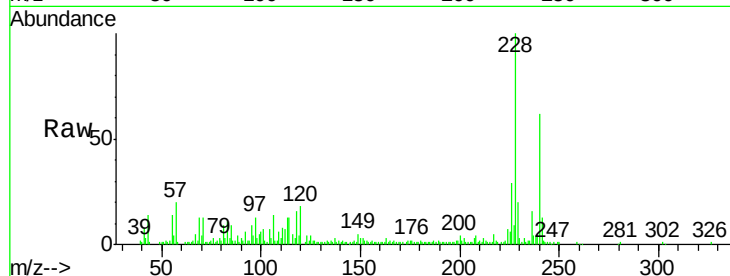
Tgt Ion:228 Resp: 80498

Ion Ratio Lower Upper

228 100

226 29.2 22.8 34.2

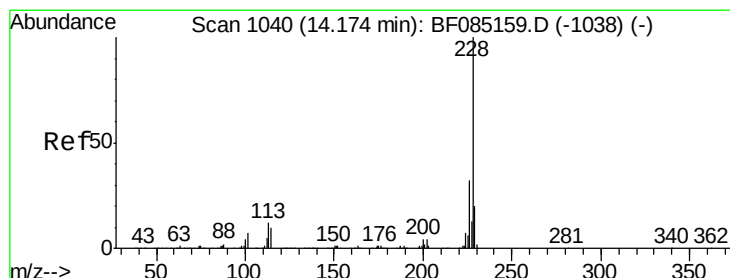
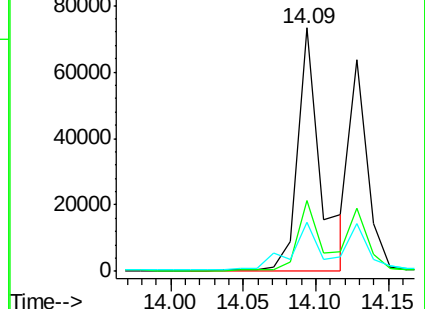
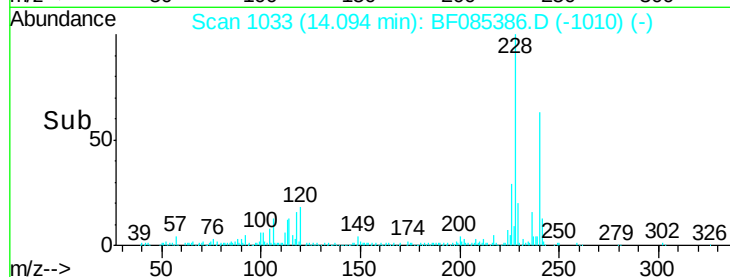
229 20.3 16.6 24.8



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: 3.51 ng

RT: 14.13 min Scan# 1036

Delta R.T. -0.05 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

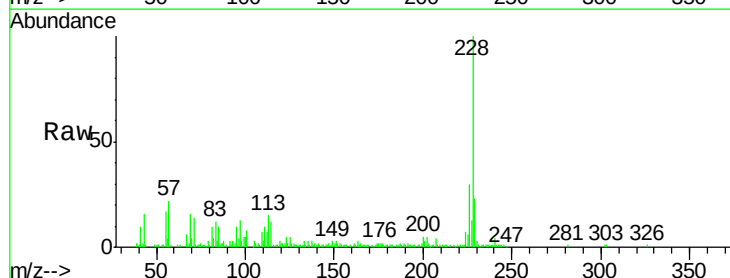
Tgt Ion:228 Resp: 54684

Ion Ratio Lower Upper

228 100

226 29.8 25.2 37.8

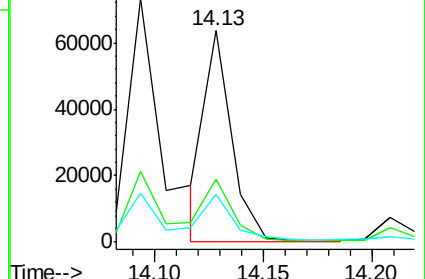
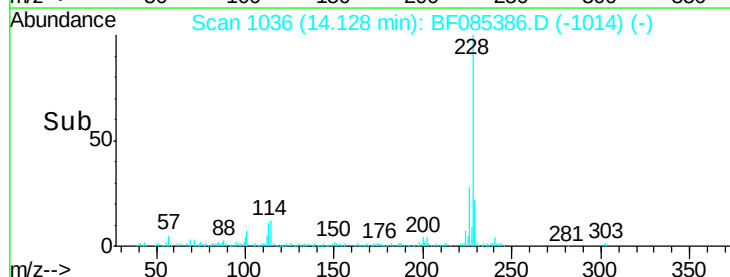
229 22.7 16.0 24.0

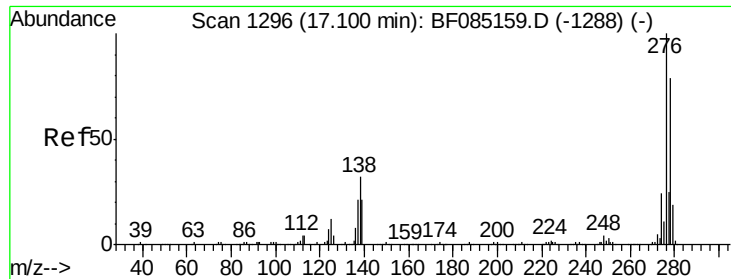


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

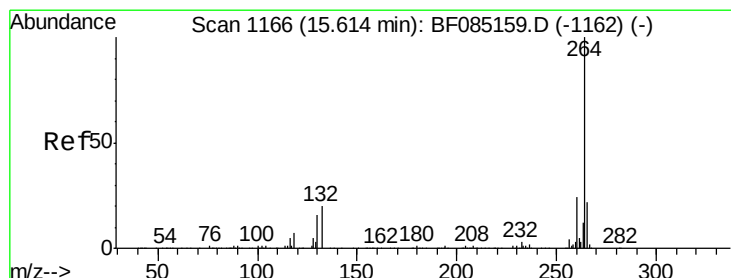
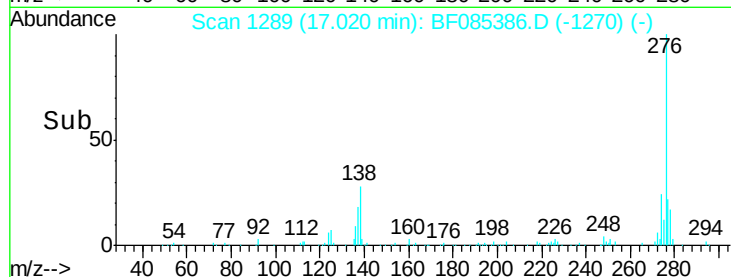
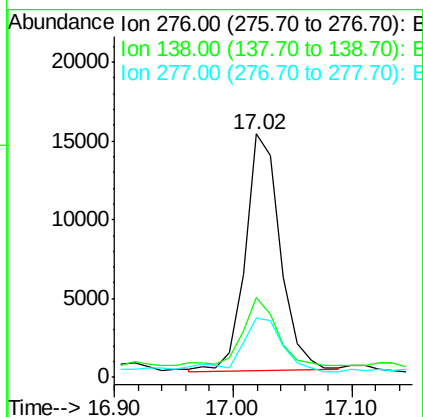
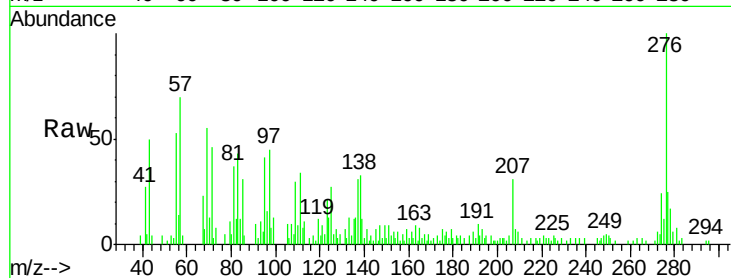




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.55 ng  
 RT: 17.02 min Scan# 1289  
 Delta R.T. -0.08 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

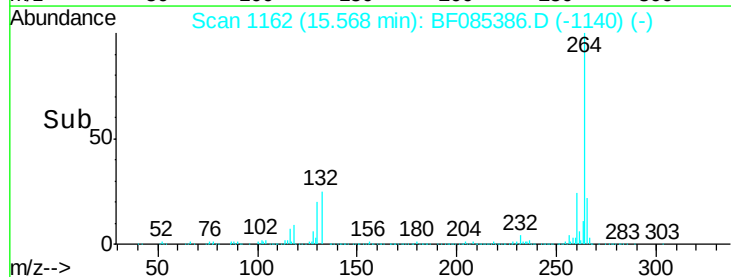
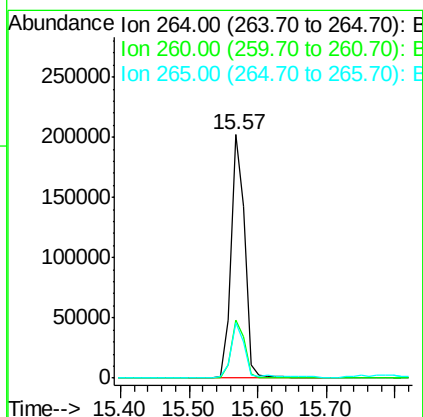
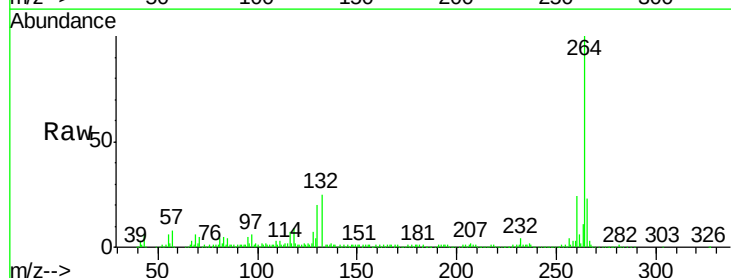
Instrument :  
 BNA\_F  
 ClientSampleId :  
 POST-EX-18-20160310

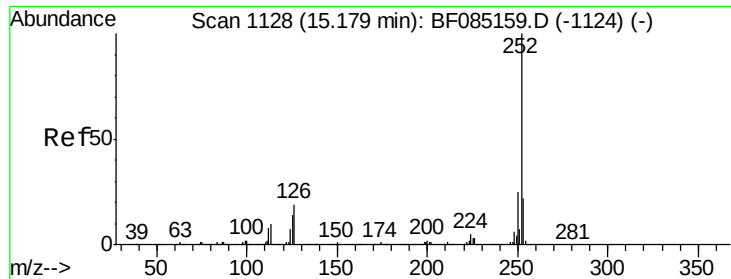
Tgt Ion: 276 Resp: 30961  
 Ion Ratio Lower Upper  
 276 100  
 138 28.5 26.4 39.6  
 277 33.3 20.2 30.2#



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.57 min Scan# 1162  
 Delta R.T. -0.05 min  
 Lab File: BF085386.D  
 Acq: 11 Mar 2016 21:55

Tgt Ion: 264 Resp: 286901  
 Ion Ratio Lower Upper  
 264 100  
 260 24.0 19.2 28.8  
 265 22.7 17.3 25.9





#87

Benzo(b)fluoranthene

Concen: 6.00 ng

RT: 15.15 min Scan# 1125

Delta R.T. -0.03 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

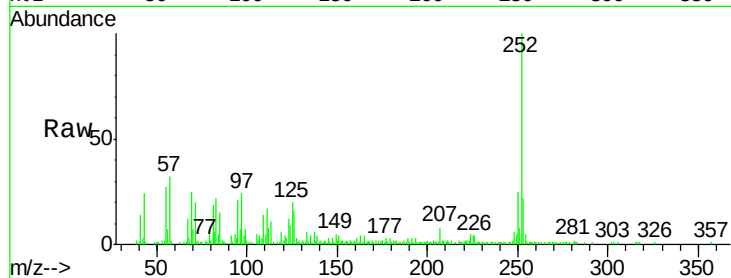
Instrument :

BNA\_F

ClientSampleId :

POST-EX-18-20160310

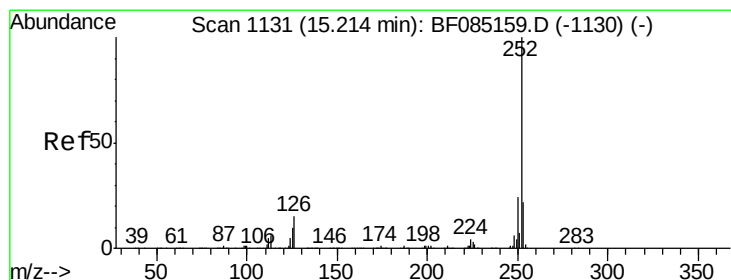
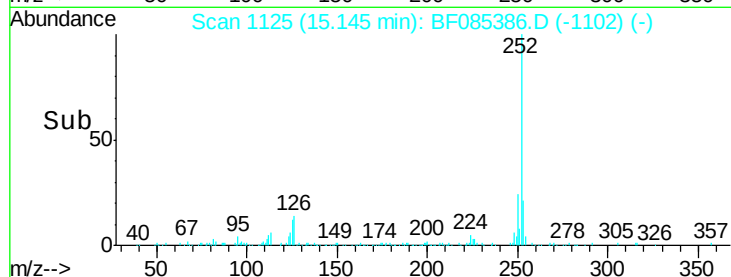
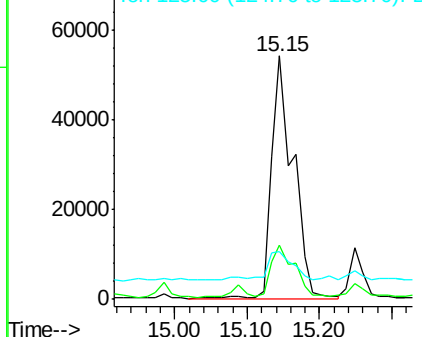
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 114767 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.2 | 17.8  | 26.6   |
| 125       | 19.8 | 11.3  | 16.9#  |



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: 7.44 ng

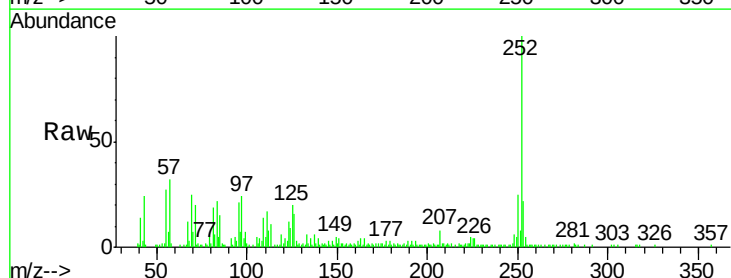
RT: 15.15 min Scan# 1125

Delta R.T. -0.07 min

Lab File: BF085386.D

Acq: 11 Mar 2016 21:55

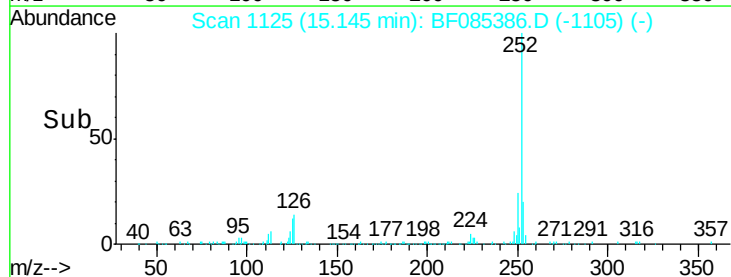
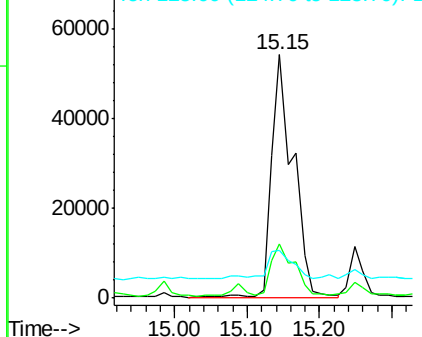
|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 114767 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 22.2 | 17.8  | 26.6   |
| 125       | 19.8 | 10.4  | 15.6#  |

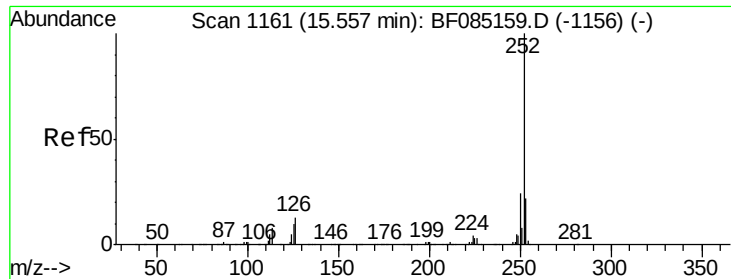


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

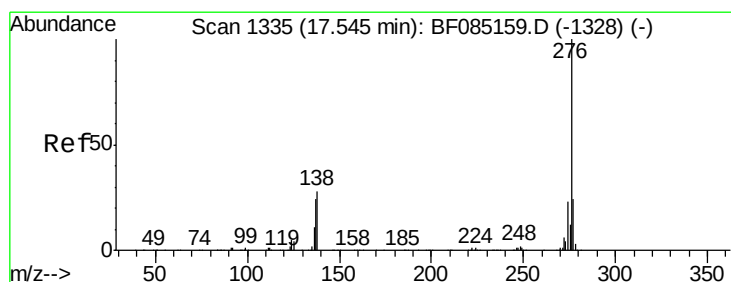
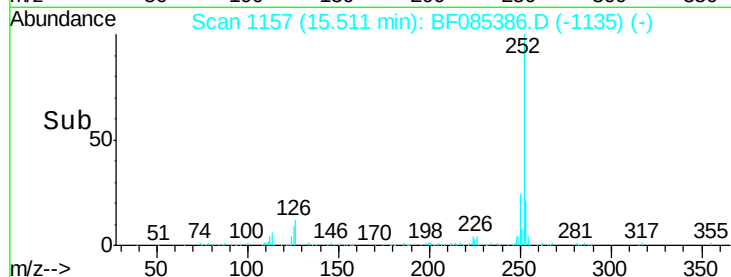
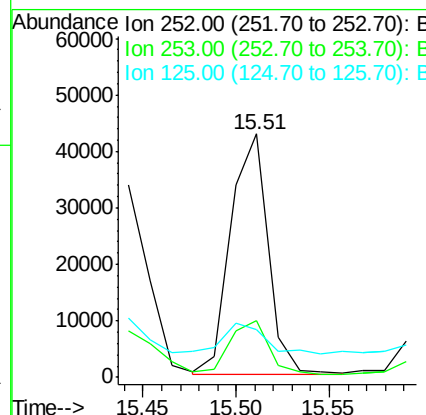
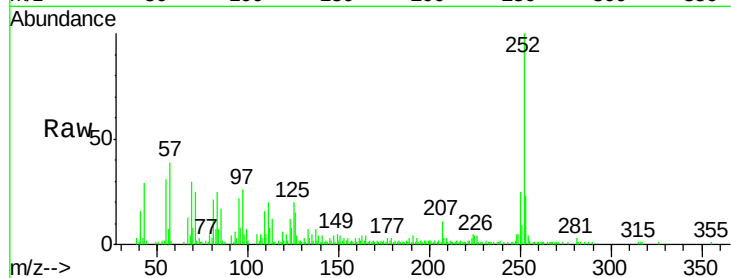




#89  
Benzo(a)pyrene  
Concen: 3.81 ng  
RT: 15.51 min Scan# 1157  
Delta R.T. -0.05 min  
Lab File: BF085386.D  
Acq: 11 Mar 2016 21:55

Instrument :  
BNA\_F  
ClientSampleId :  
POST-EX-18-20160310

Tgt Ion: 252 Resp: 60406  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.4 26.0  
125 19.5 8.2 12.4#



#91  
Benzo(g,h,i)perylene  
Concen: 2.32 ng  
RT: 17.47 min Scan# 1328  
Delta R.T. -0.08 min  
Lab File: BF085386.D  
Acq: 11 Mar 2016 21:55

Tgt Ion: 276 Resp: 31621  
Ion Ratio Lower Upper  
276 100  
277 23.9 19.0 28.4  
138 30.1 22.5 33.7

