

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070717\  
 Data File : BF096574.D  
 Acq On : 7 Jul 2017 22:16  
 Operator : SJ/MA  
 Sample : I4070-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jul 07 23:14:40 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 07 13:02:33 2017  
 Response via : Initial Calibration

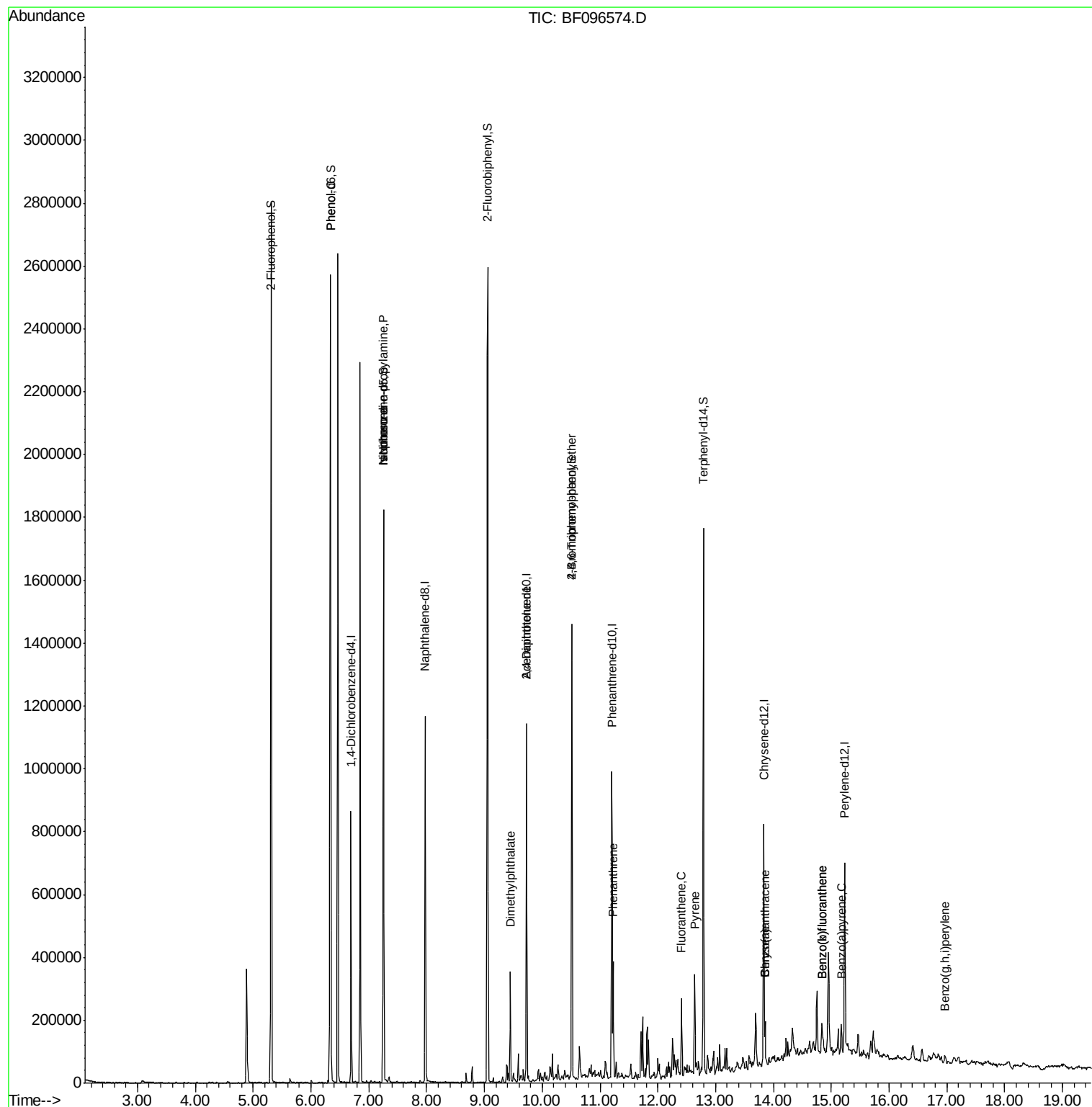
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.69  | 152  | 124513   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.97  | 136  | 505457   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.73  | 164  | 215479   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.20 | 188  | 331980   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.83 | 240  | 225147   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.23 | 264  | 238281   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.31  | 112  | 795703   | 94.32  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.34  | 99   | 959138   | 92.48  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.26  | 82   | 562311   | 66.85  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.52 | 330  | 169831   | 100.90 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.06  | 172  | 853195   | 67.70  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.79 | 244  | 550089   | 52.21  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 10) Phenol                     | 6.35  | 94   | 31684    | 2.68   | ng    | 97       |
| 19) n-Nitroso-di-n-propylamine | 7.26  | 70   | 73872    | 11.96  | ng    | # 88     |
| 25) Isophorone                 | 7.26  | 82   | 559667   | 34.32  | ng    | # 67     |
| 49) Dimethylphthalate          | 9.45  | 163  | 121550   | 7.56   | ng    | 97       |
| 56) 2,4-Dinitrotoluene         | 9.73  | 165  | 27922    | 6.20   | ng    | # 33     |
| 66) 4-Bromophenyl-phenylether  | 10.51 | 248  | 11009    | 3.41   | ng    | # 1      |
| 70) Phenanthrene               | 11.23 | 178  | 118899   | 6.63   | ng    | 97       |
| 74) Fluoranthene               | 12.41 | 202  | 85497    | 4.86   | ng    | 98       |
| 77) Pyrene                     | 12.64 | 202  | 124274   | 6.88   | ng    | 99       |
| 80) Benzo(a)anthracene         | 13.86 | 228  | 47531    | 3.65   | ng    | 98       |
| 82) Chrysene                   | 13.86 | 228  | 47531    | 3.48   | ng    | 98       |
| 87) Benzo(b)fluoranthene       | 14.84 | 252  | 59904    | 4.01   | ng    | # 95     |
| 88) Benzo(k)fluoranthene       | 14.84 | 252  | 59904    | 4.49   | ng    | 98       |
| 89) Benzo(a)pyrene             | 15.17 | 252  | 39719    | 2.98   | ng    | # 95     |
| 91) Benzo(a,h,i)perylene       | 16.97 | 276  | 23215    | 2.14   | ng    | # 88     |

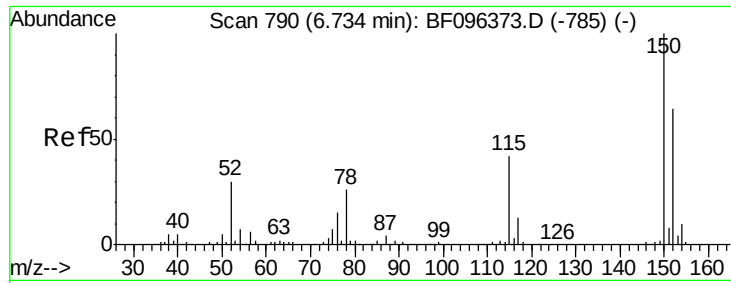
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF070717\  
Data File : BF096574.D  
Acq On : 7 Jul 2017 22:16  
Operator : SJ/MA  
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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Jul 07 23:14:40 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 07 13:02:33 2017  
Response via : Initial Calibration



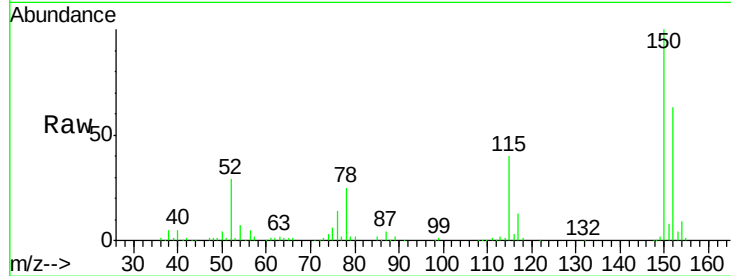


#1

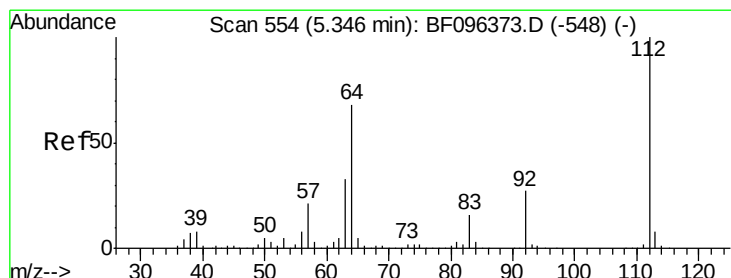
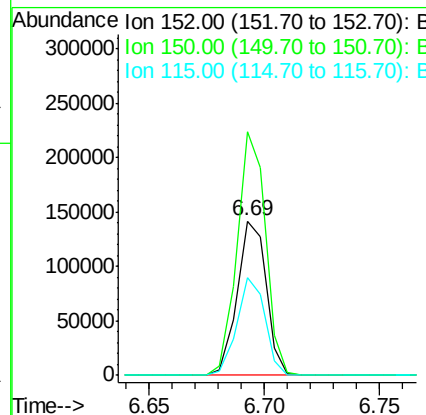
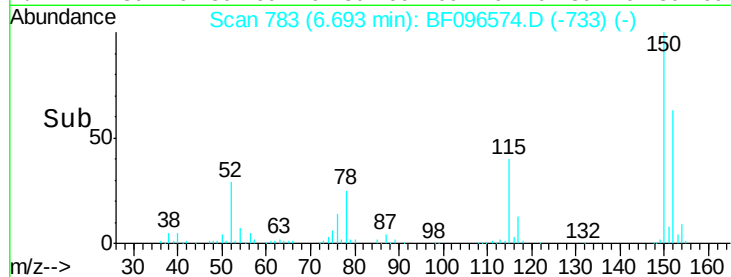
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.69 min Scan# 783  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.7 | 126.2 | 189.2 |
| 115     | 63.5  | 52.2  | 78.2  |



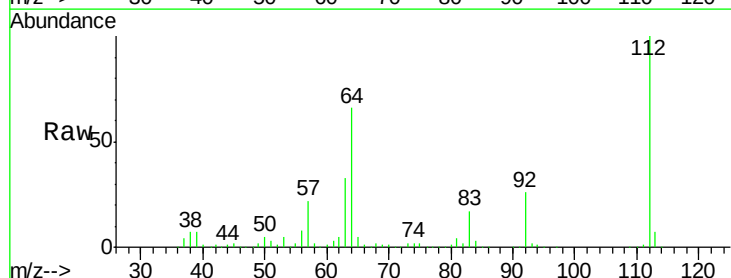
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



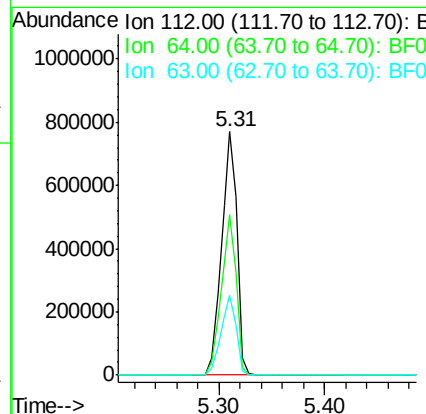
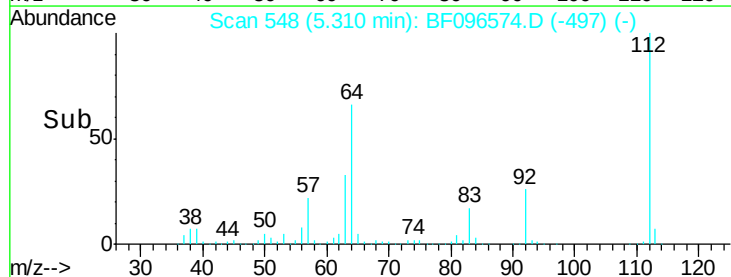
#5

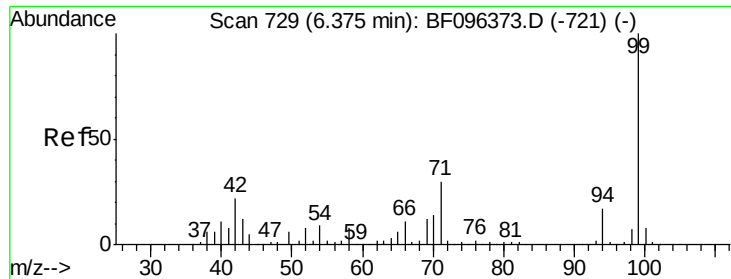
2-Fluorophenol  
Concen: 94.32 ng  
RT: 5.31 min Scan# 548  
Delta R.T. 0.00 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 66.1  | 46.0  | 69.0  |
| 63      | 33.0  | 23.4  | 35.0  |



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 92.48 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF096574.D

Acq: 7 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampled :

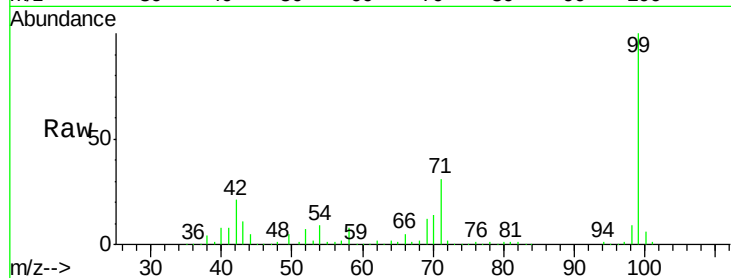
Tot Ion: 99 Resp: 959138

Ion Ratio Lower Upper

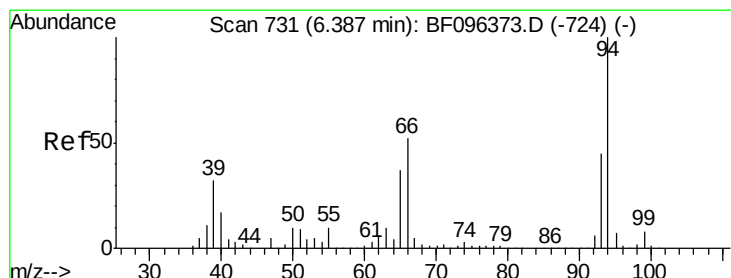
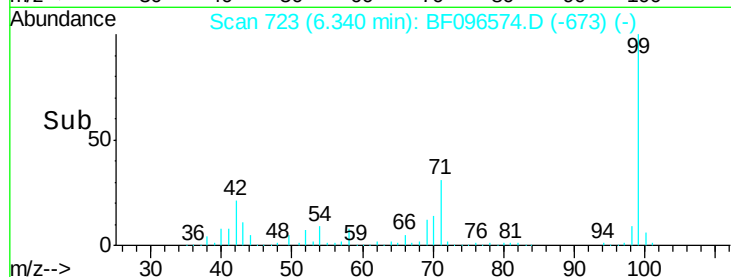
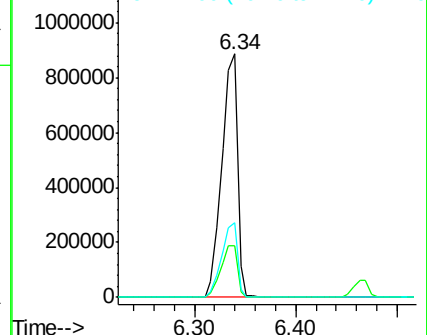
99 100

42 21.1 13.5 20.3#

71 30.8 24.5 36.7



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



#10

Phenol

Concen: 2.68 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF096574.D

Acq: 7 Jul 2017 22:16

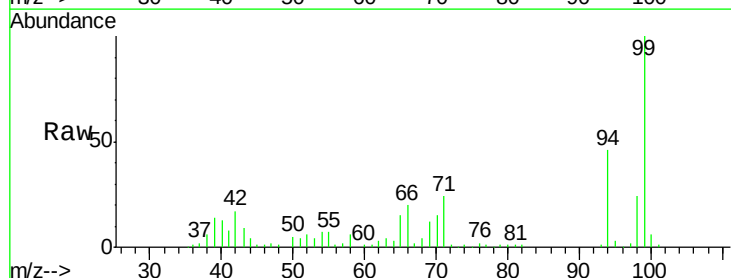
Tgt Ion: 94 Resp: 31684

Ion Ratio Lower Upper

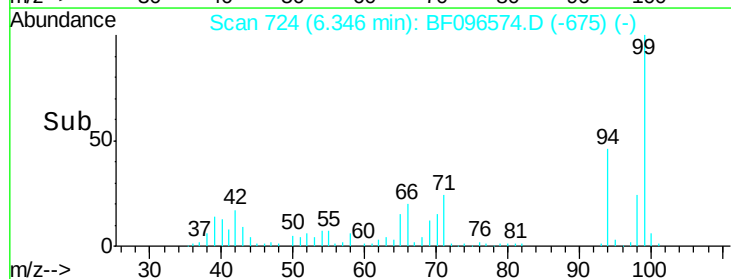
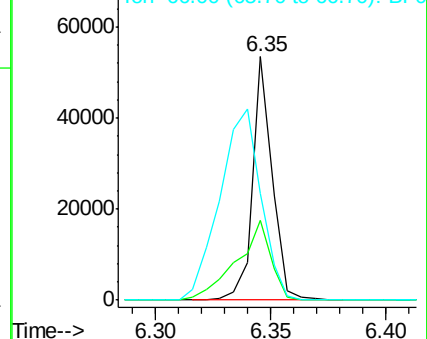
94 100

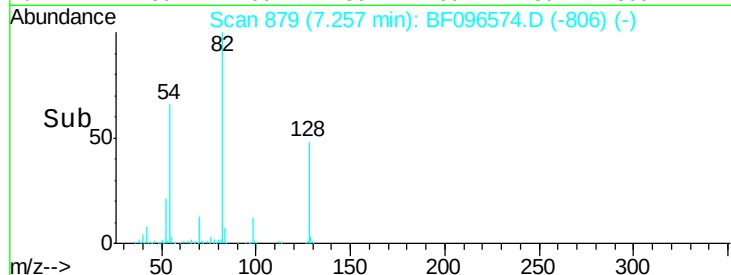
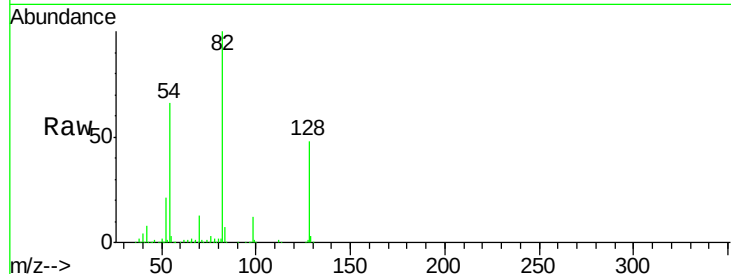
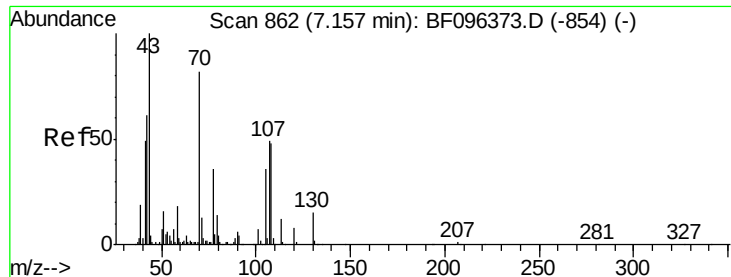
65 32.9 9.9 49.9

66 43.7 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0  
Ion 65.00 (64.70 to 65.70): BF0  
Ion 66.00 (65.70 to 66.70): BF0

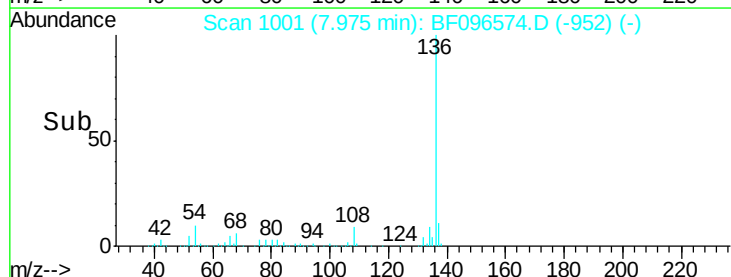
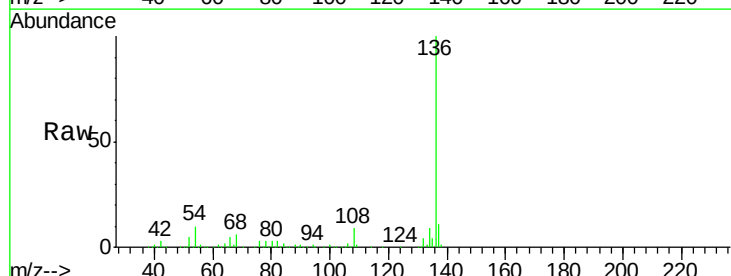
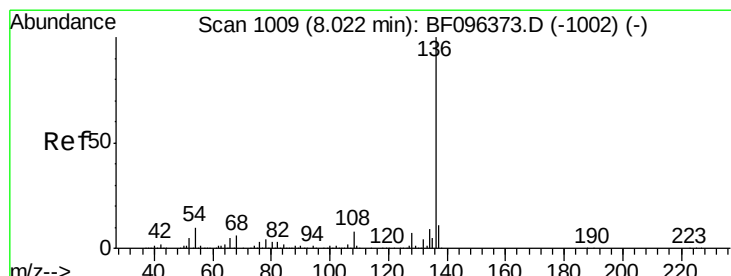
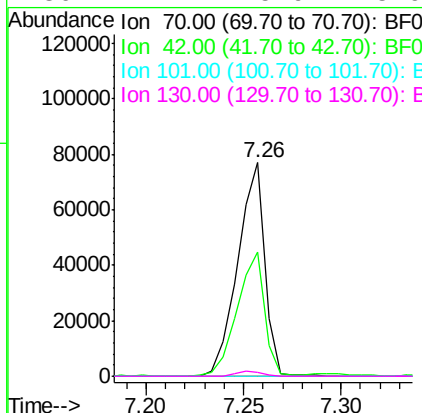




#19  
n-Nitroso-di-n-propylamine  
Concen: 11.96 ng  
RT: 7.26 min Scan# 879  
Delta R.T. 0.13 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

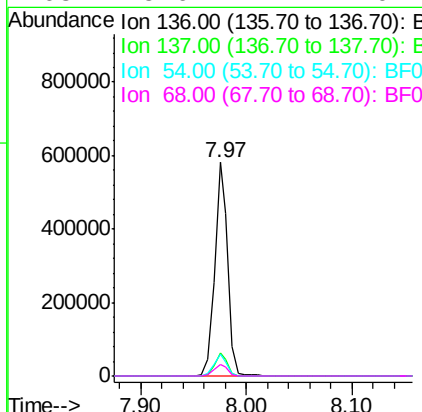
Instrument :  
BNA\_F  
ClientSampled :

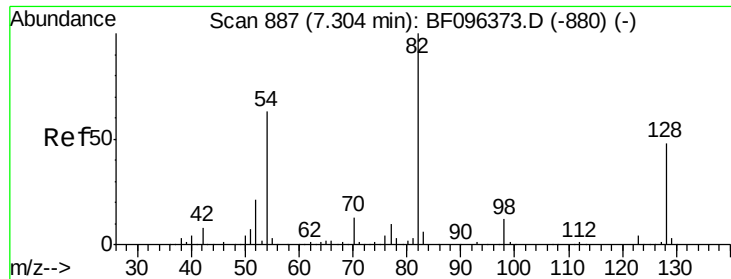
Tot Ion: 70 Resp: 73872  
Ion Ratio Lower Upper  
70 100  
42 57.9 47.2 70.8  
101 0.0 7.2 10.8#  
130 2.1 15.9 23.9#



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 7.97 min Scan# 1001  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Tgt Ion:136 Resp: 505457  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.5 12.7  
54 10.3 4.9 7.3#  
68 5.6 4.1 6.1

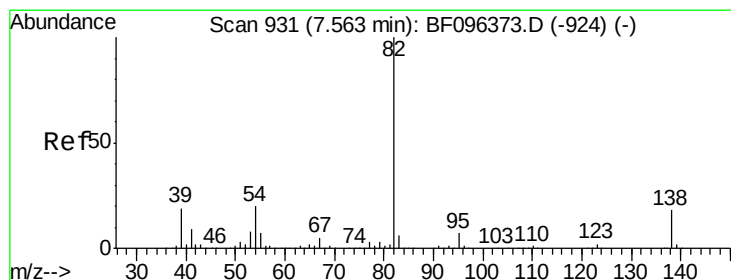
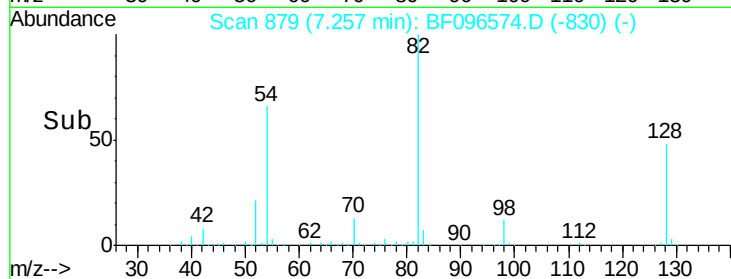
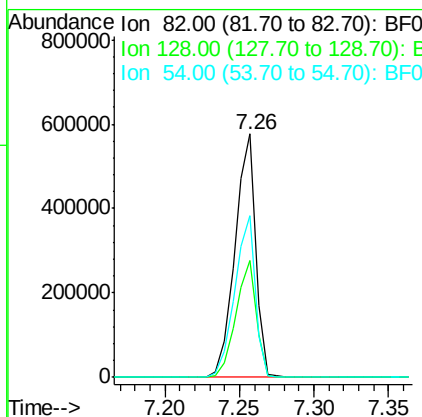
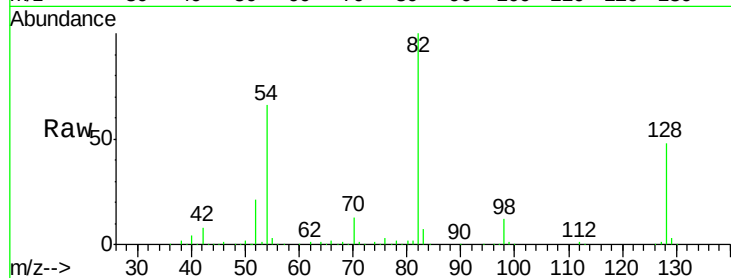




#23  
Nitrobenzene-d5  
Concen: 66.85 ng  
RT: 7.26 min Scan# 879  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

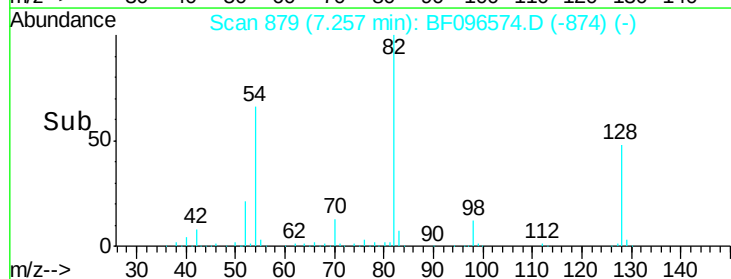
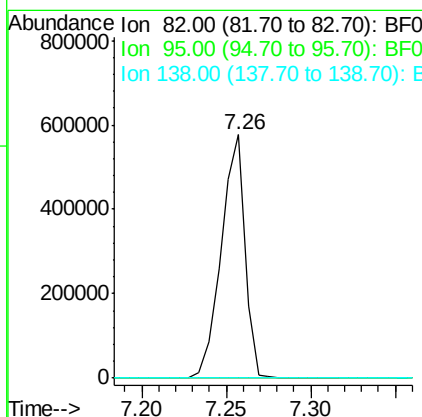
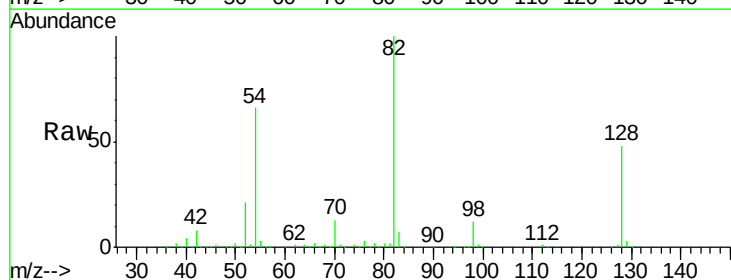
Instrument :  
BNA\_F  
ClientSampleId :

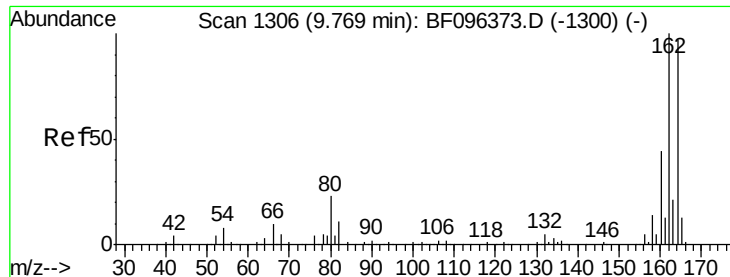
| Tot Ion   | 82   | Resp  | 562311 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 48.0 | 34.0  | 51.0   |
| 54        | 66.3 | 42.2  | 63.2#  |



#25  
Isophorone  
Concen: 34.32 ng  
RT: 7.26 min Scan# 879  
Delta R.T. -0.27 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

| Tgt Ion   | 82  | Resp  | 559667 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 95        | 0.0 | 5.3   | 7.9#   |
| 138       | 0.0 | 13.1  | 19.7#  |

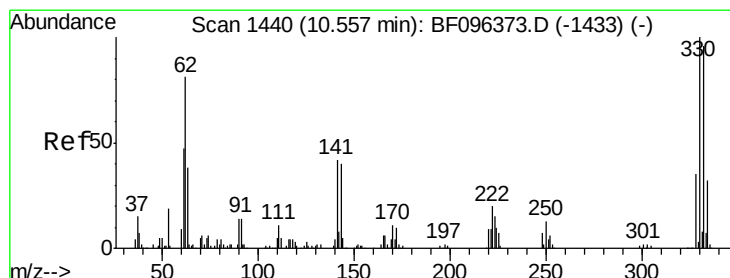
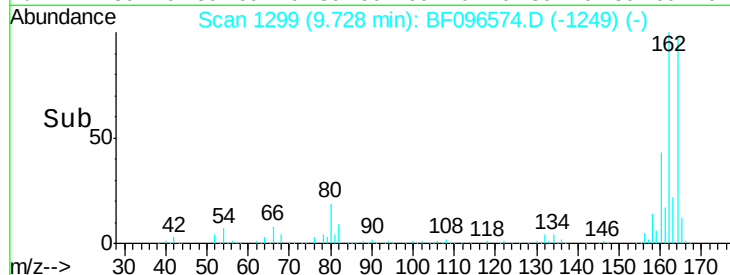
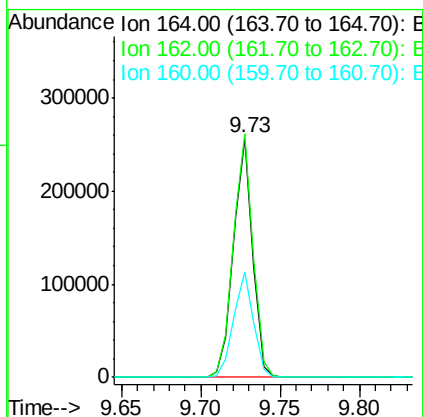
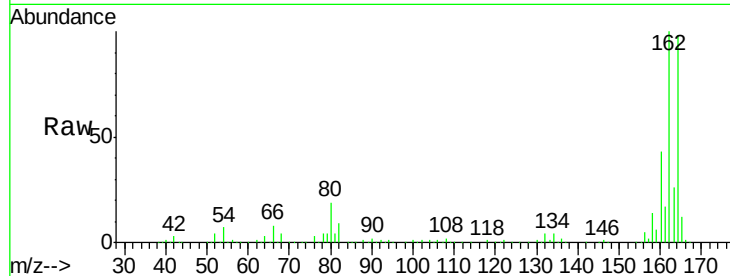




#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 9.73 min Scan# 1299  
 Delta R.T. -0.01 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

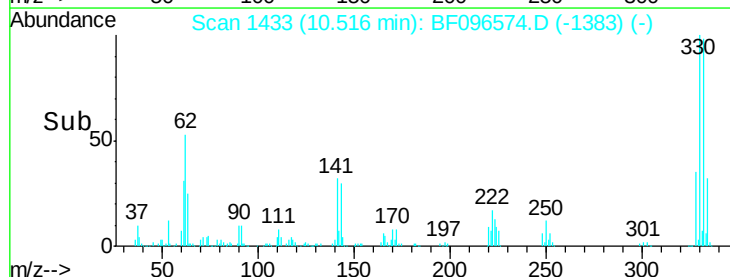
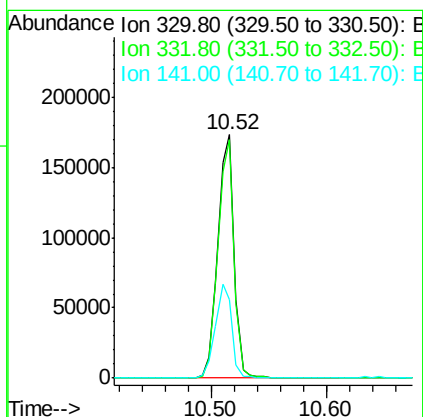
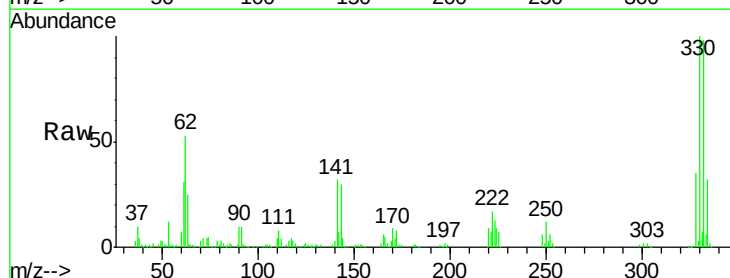
Instrument :  
 BNA\_F  
 ClientSampleId :

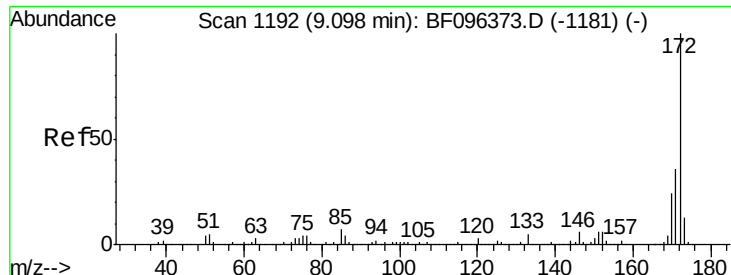
Tot Ion:164 Resp: 215479  
 Ion Ratio Lower Upper  
 164 100  
 162 102.1 82.6 123.8  
 160 44.3 36.2 54.2



#41  
 2,4,6-Tribromophenol  
 Concen: 100.90 ng  
 RT: 10.52 min Scan# 1433  
 Delta R.T. -0.01 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

Tgt Ion:330 Resp: 169831  
 Ion Ratio Lower Upper  
 330 100  
 332 96.7 76.6 115.0  
 141 38.9 31.4 47.2

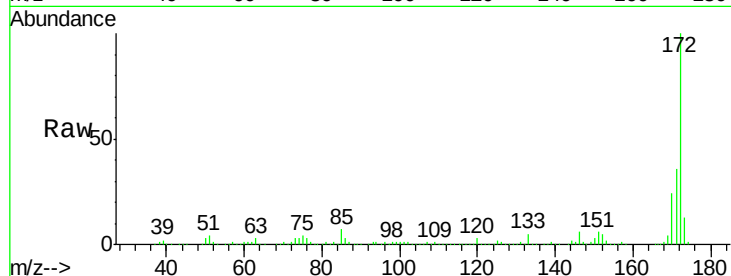




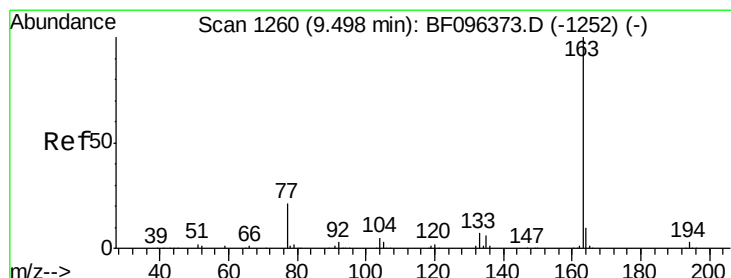
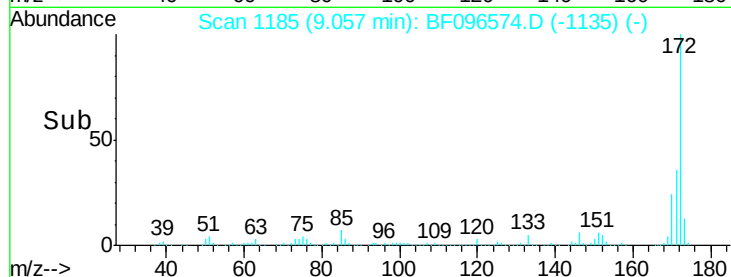
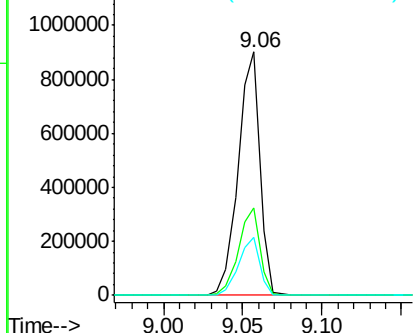
#44  
2-Fluorobiphenyl  
Concen: 67.70 ng  
RT: 9.06 min Scan# 1185  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:172 Resp: 853195  
Ion Ratio Lower Upper  
172 100  
171 36.0 29.6 44.4  
170 24.1 19.8 29.8

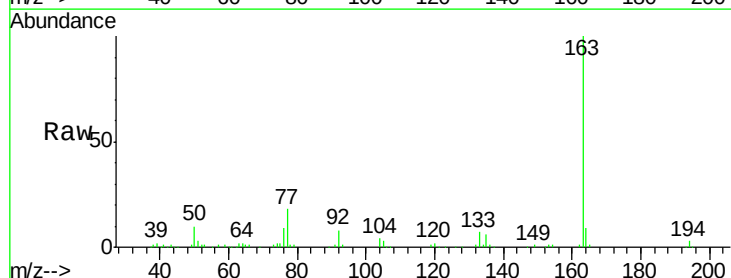


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

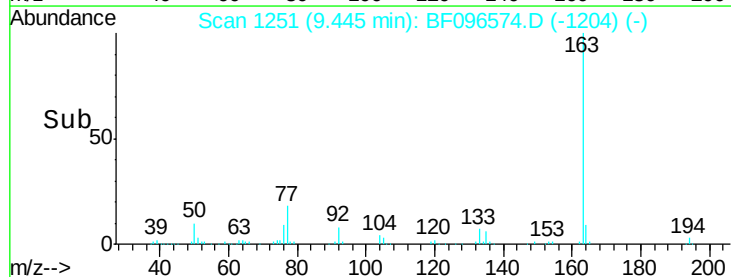
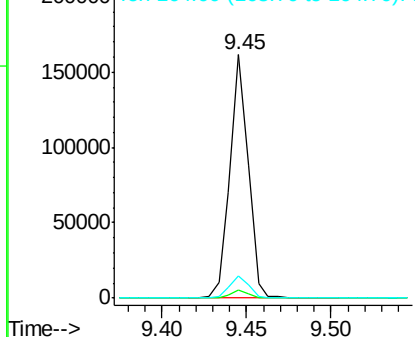


#49  
Dimethylphthalate  
Concen: 7.56 ng  
RT: 9.45 min Scan# 1251  
Delta R.T. -0.02 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

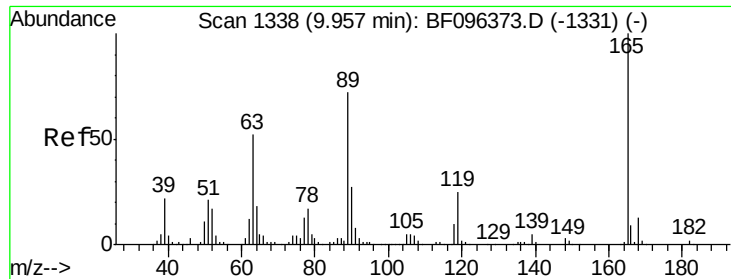
Tgt Ion:163 Resp: 121550  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.6 4.0  
164 9.1 8.4 12.6



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



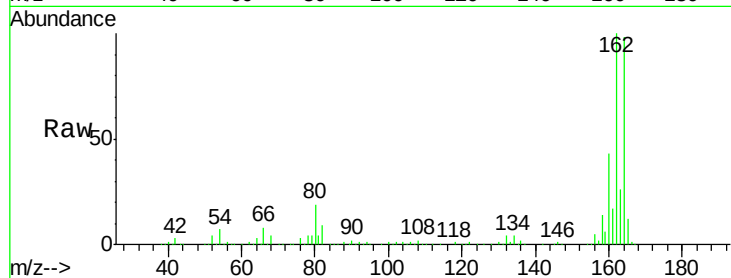




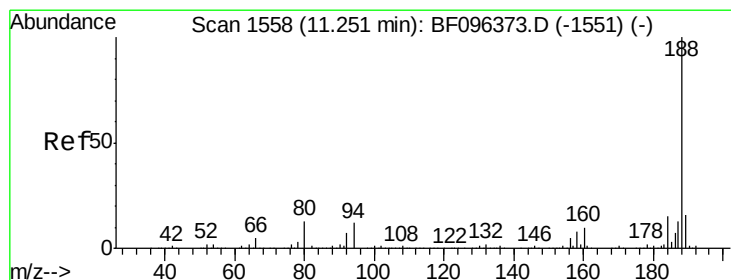
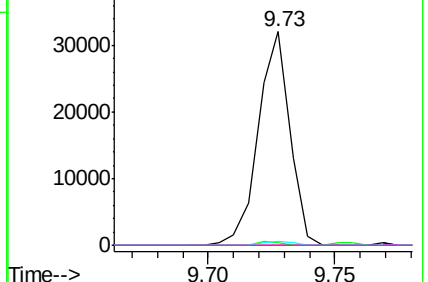
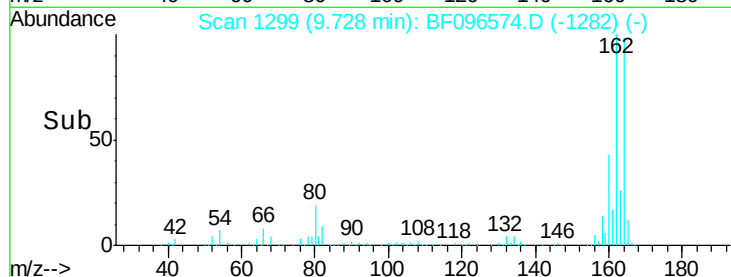
#56  
 2,4-Dinitrotoluene  
 Concen: 6.20 ng  
 RT: 9.73 min Scan# 1299  
 Delta R.T. -0.20 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 27922  
 Ion Ratio Lower Upper  
 165 100  
 63 1.5 25.4 38.0#  
 89 1.7 46.4 69.6#  
 182 0.0 1.8 2.6#

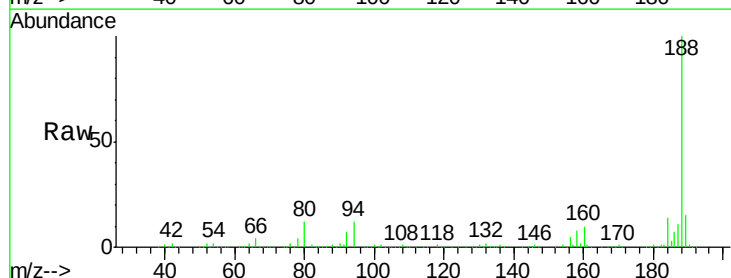


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF0  
 Ion 89.00 (88.70 to 89.70): BF0  
 Ion 182.00 (181.70 to 182.70): E

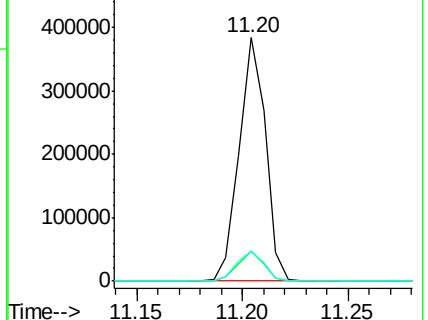
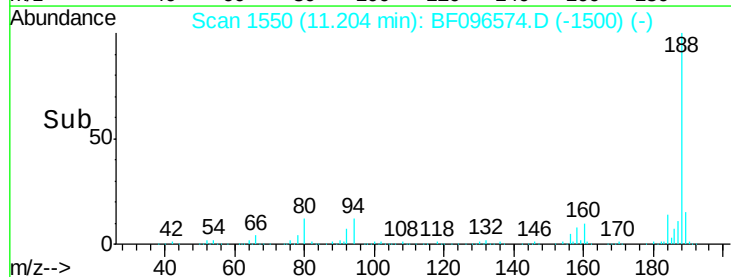


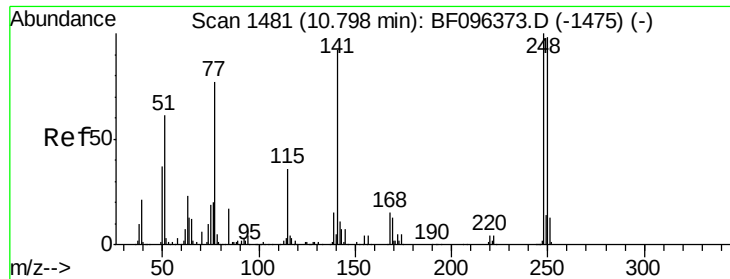
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 11.20 min Scan# 1550  
 Delta R.T. -0.01 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

Tgt Ion:188 Resp: 331980  
 Ion Ratio Lower Upper  
 188 100  
 94 12.1 9.4 14.2  
 80 12.3 10.2 15.2



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

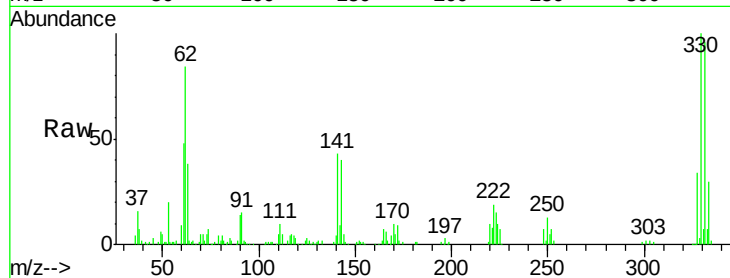




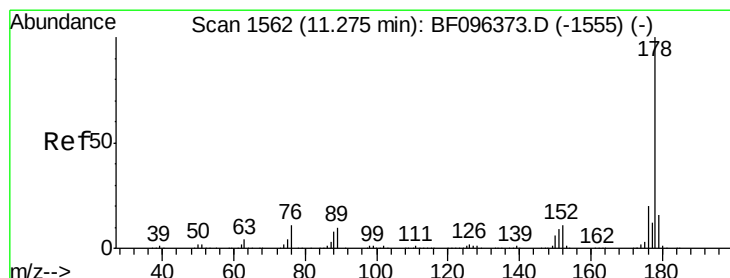
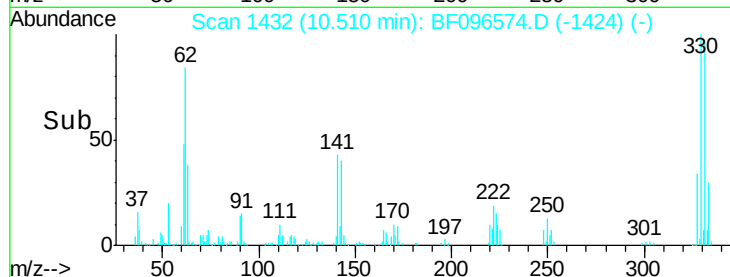
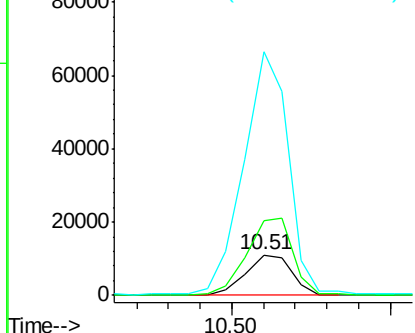
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.41 ng  
 RT: 10.51 min Scan# 1432  
 Delta R.T. -0.25 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 11009  
 Ion Ratio Lower Upper  
 248 100  
 250 185.2 76.8 115.2#  
 141 607.4 68.6 103.0#

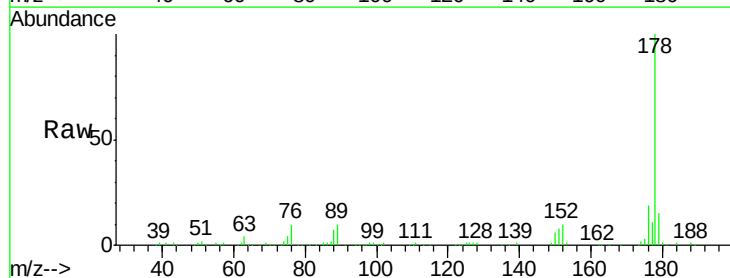


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

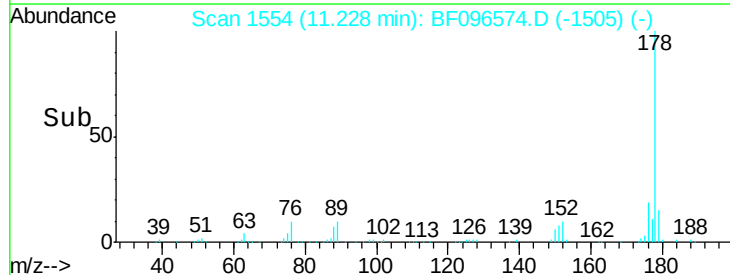
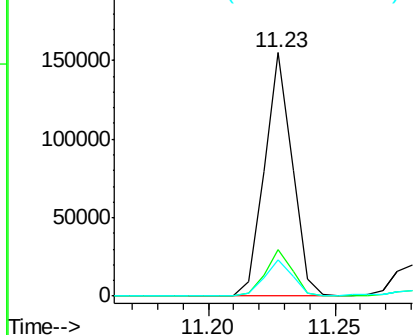


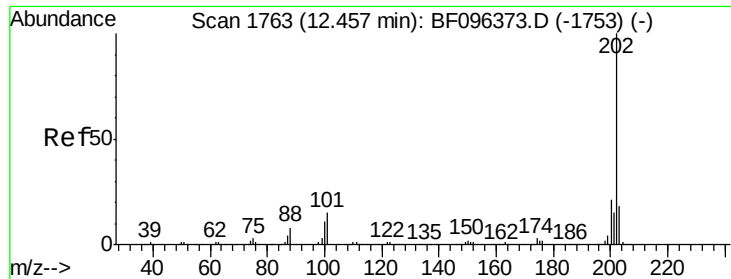
#70  
 Phenanthrene  
 Concen: 6.63 ng  
 RT: 11.23 min Scan# 1554  
 Delta R.T. -0.01 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

Tgt Ion:178 Resp: 118899  
 Ion Ratio Lower Upper  
 178 100  
 176 19.0 16.2 24.4  
 179 14.8 12.6 19.0



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





#74

Fluoranthene

Concen: 4.86 ng

RT: 12.41 min Scan# 1755

Delta R.T. -0.01 min

Lab File: BF096574.D

Acq: 7 Jul 2017 22:16

Instrument :

BNA\_F

ClientSampled :

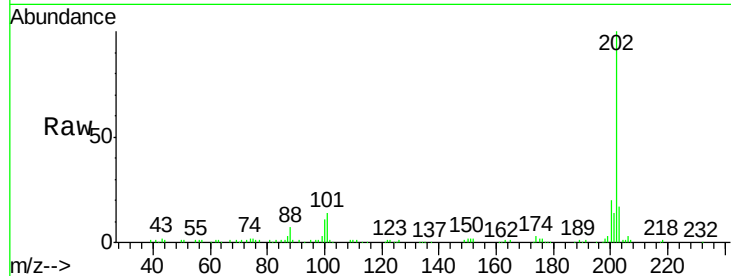
Tot Ion:202 Resp: 85497

Ion Ratio Lower Upper

202 100

101 13.9 0.0 33.2

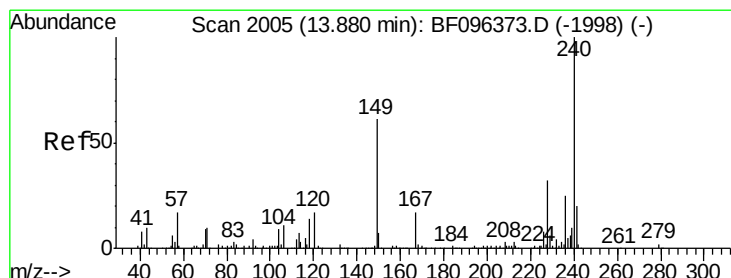
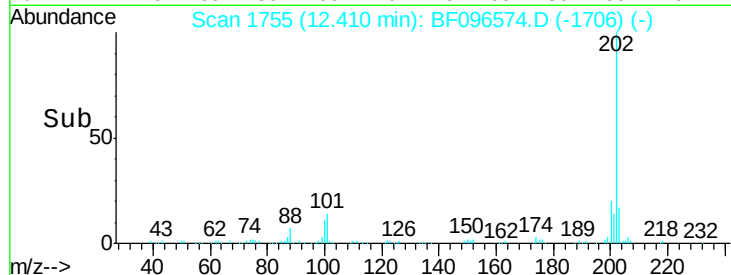
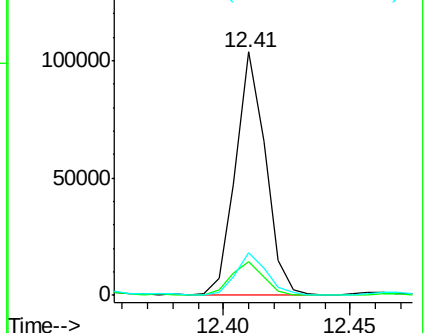
203 17.4 0.0 38.1



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: 20.00 ng

RT: 13.83 min Scan# 1997

Delta R.T. -0.01 min

Lab File: BF096574.D

Acq: 7 Jul 2017 22:16

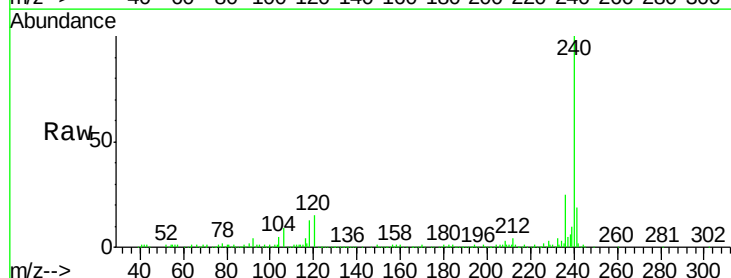
Tgt Ion:240 Resp: 225147

Ion Ratio Lower Upper

240 100

120 14.6 5.8 8.8#

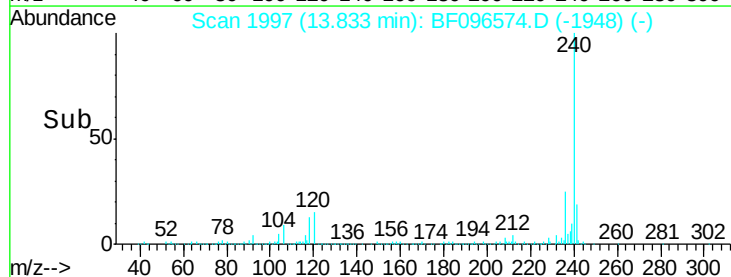
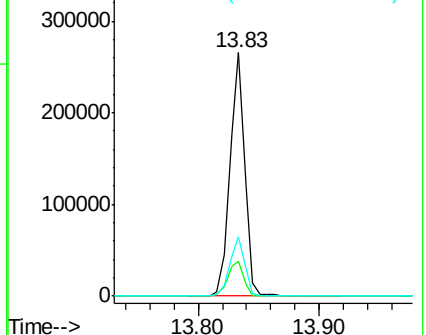
236 24.6 20.5 30.7

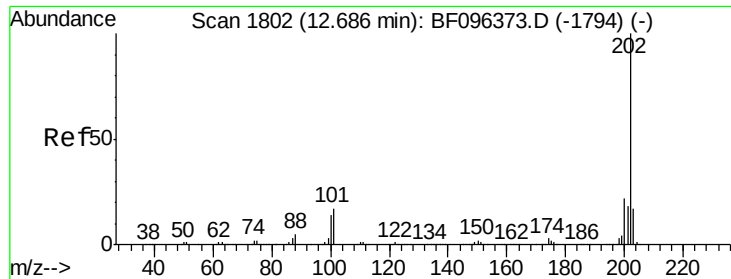


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

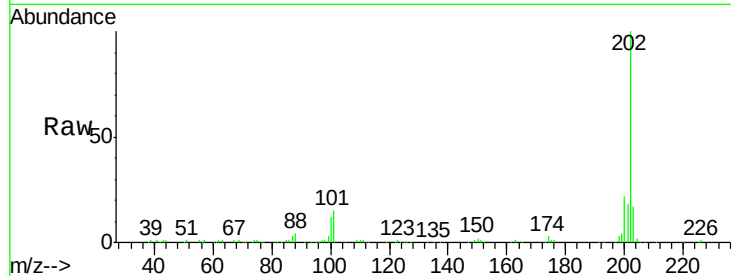




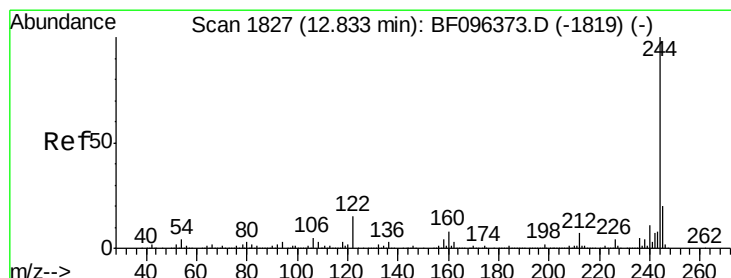
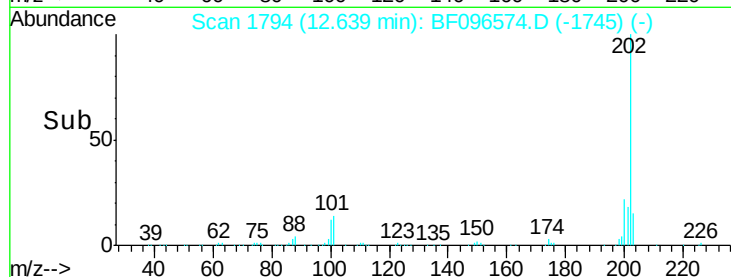
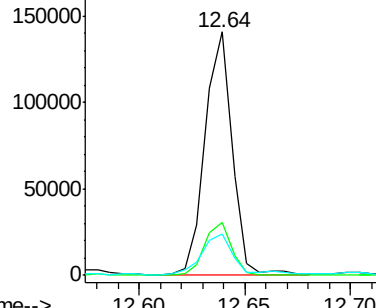
#77  
Pvrene  
Concen: 6.88 ng  
RT: 12.64 min Scan# 1794  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:202 Resp: 124274  
Ion Ratio Lower Upper  
202 100  
200 21.7 17.6 26.4  
203 17.1 14.4 21.6

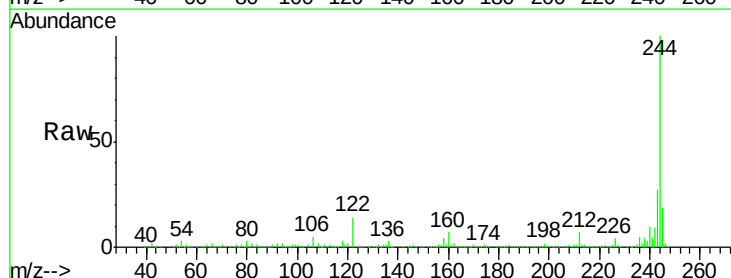


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

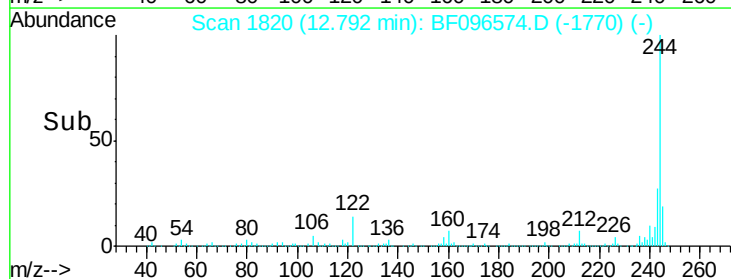
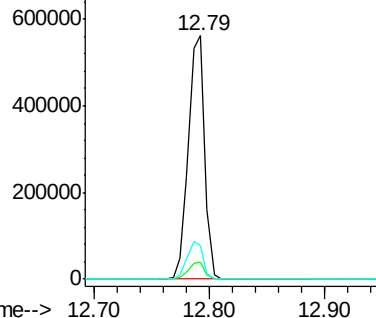


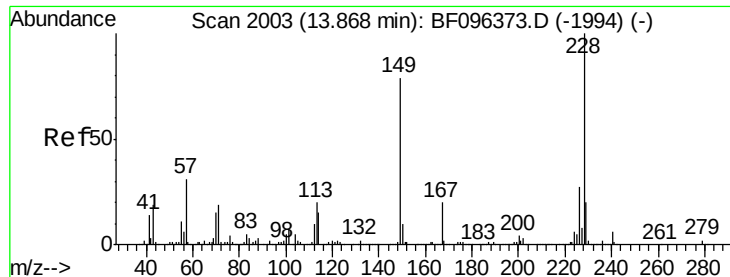
#78  
Terphenyl-d14  
Concen: 52.21 ng  
RT: 12.79 min Scan# 1820  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Tgt Ion:244 Resp: 550089  
Ion Ratio Lower Upper  
244 100  
212 6.8 6.0 9.0  
122 13.8 10.3 15.5



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E

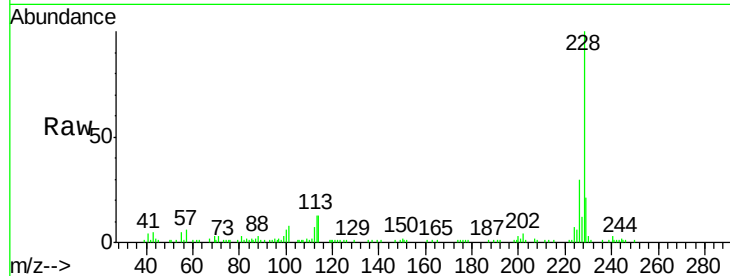




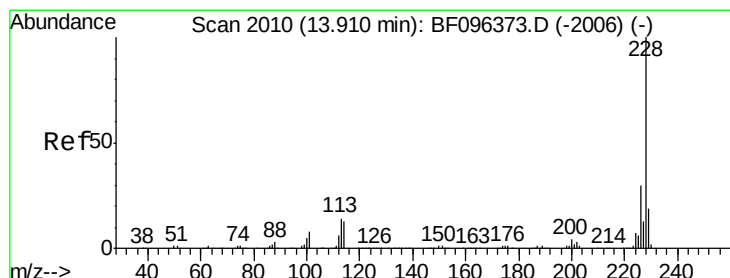
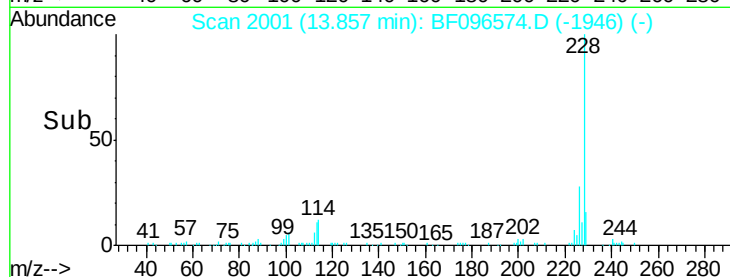
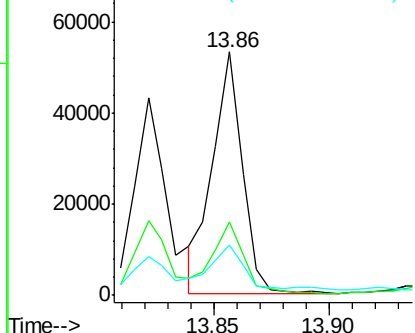
#80  
Benzo(a)anthracene  
Concen: 3.65 ng  
RT: 13.86 min Scan# 2001  
Delta R.T. 0.02 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:228 Resp: 47531  
Ion Ratio Lower Upper  
228 100  
226 30.1 22.6 33.8  
229 20.7 16.3 24.5

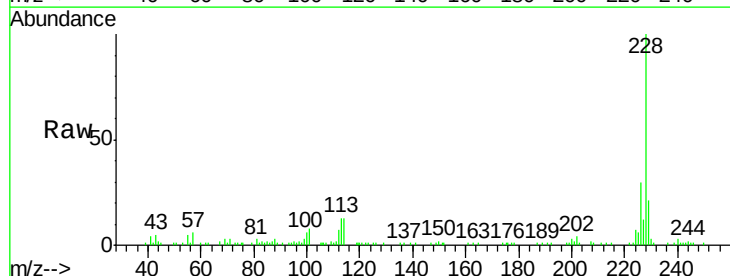


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

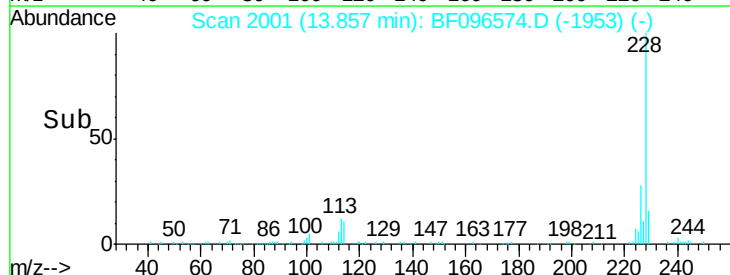
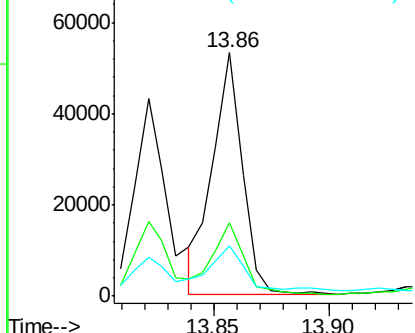


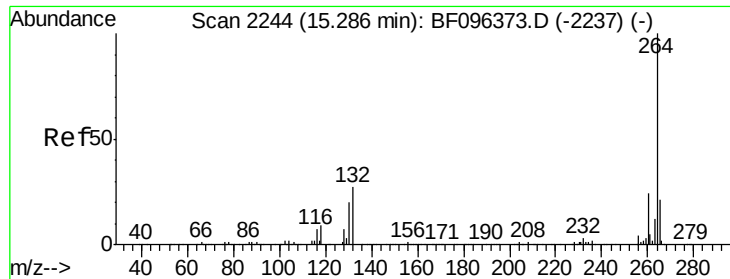
#82  
Chrysene  
Concen: 3.48 ng  
RT: 13.86 min Scan# 2001  
Delta R.T. -0.02 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Tgt Ion:228 Resp: 47531  
Ion Ratio Lower Upper  
228 100  
226 30.1 24.9 37.3  
229 20.7 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

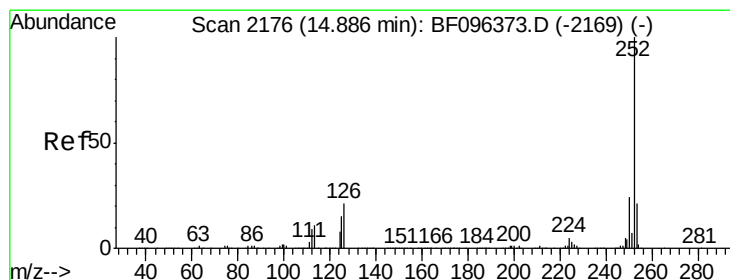
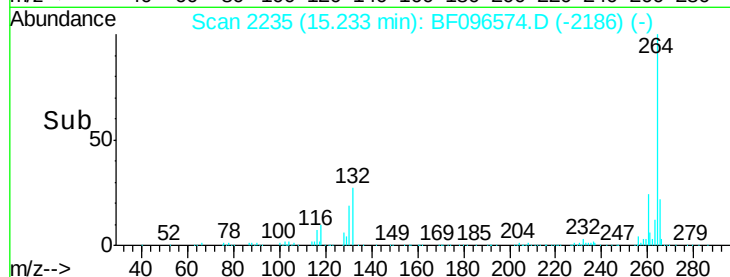
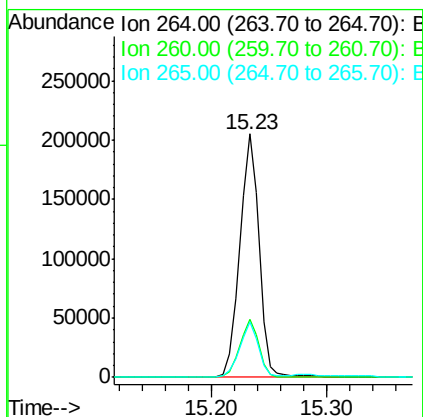
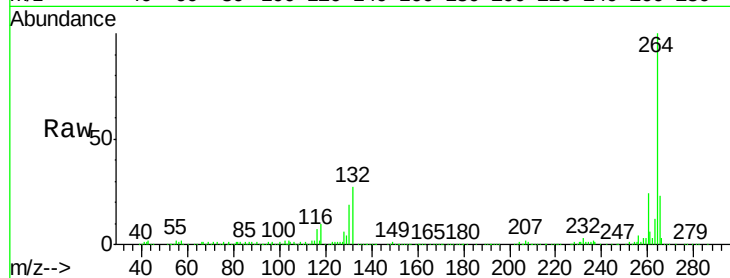




#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 15.23 min Scan# 2235  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

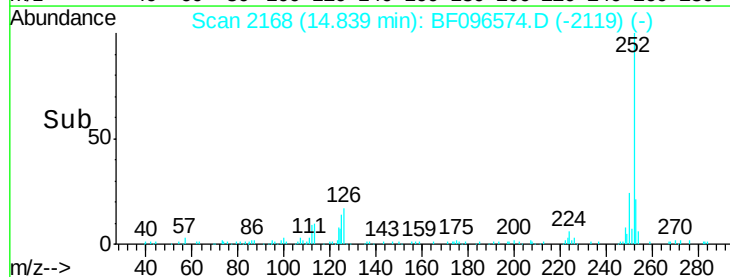
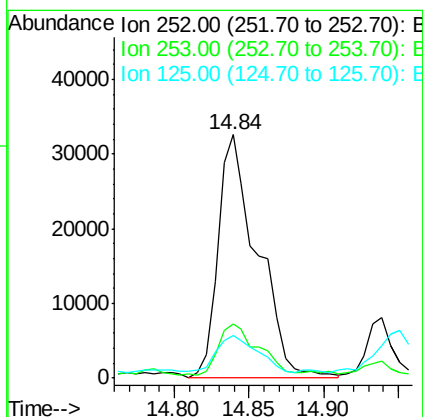
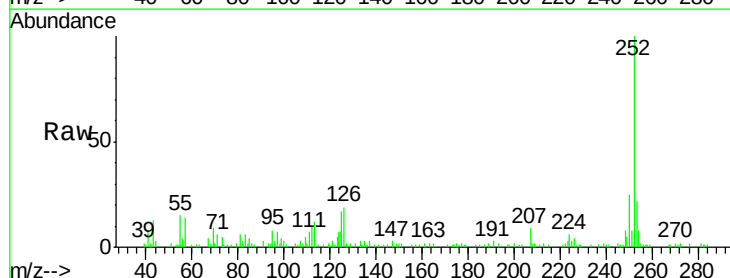
Instrument :  
BNA\_F  
ClientSampleId :

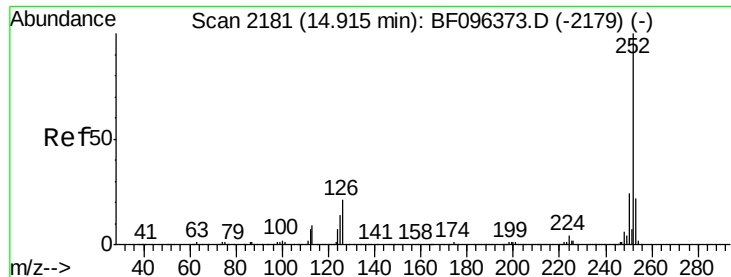
Tot Ion:264 Resp: 238281  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.5 29.3  
265 22.5 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 4.01 ng  
RT: 14.84 min Scan# 2168  
Delta R.T. -0.01 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Tgt Ion:252 Resp: 59904  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.1 27.1  
125 17.4 9.8 14.8#

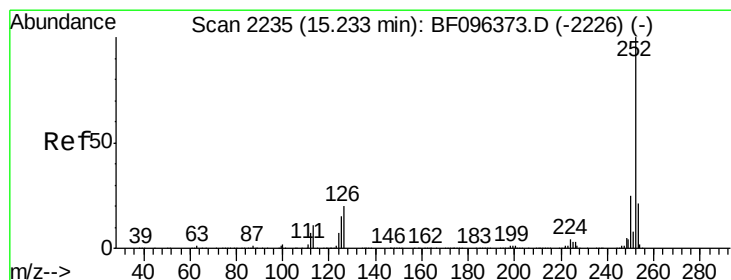
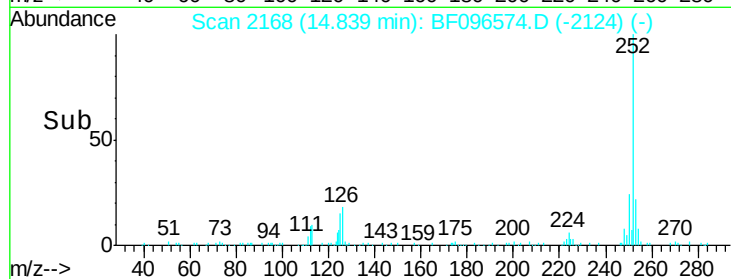
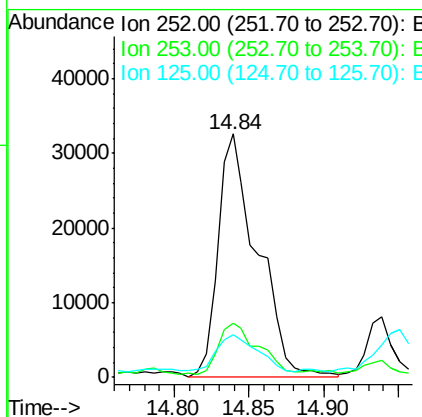
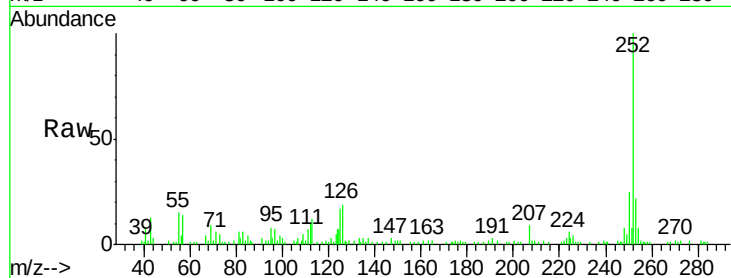




#88  
Benzo(k)fluoranthene  
Concen: 4.49 ng  
RT: 14.84 min Scan# 2168  
Delta R.T. -0.04 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

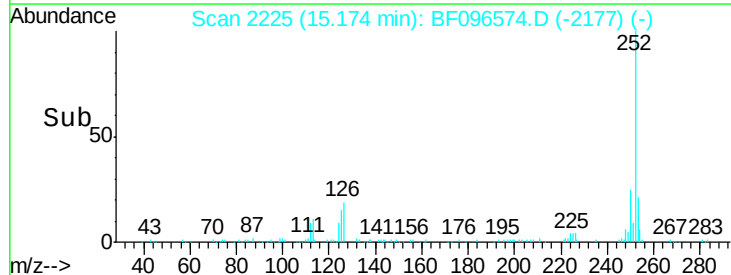
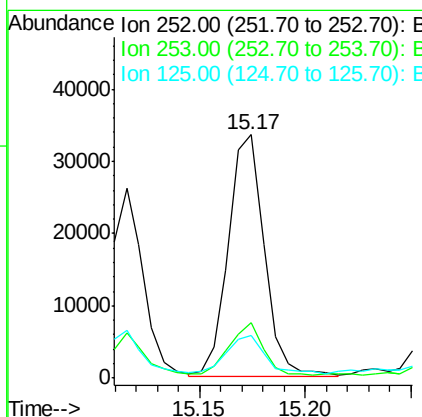
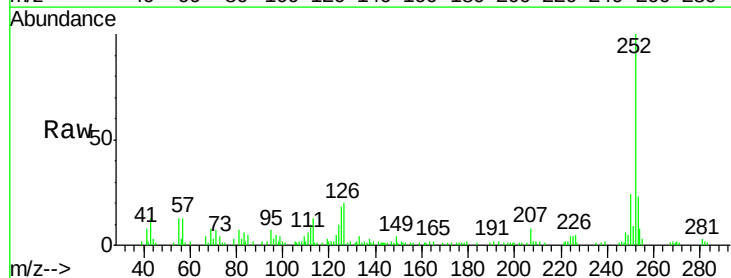
Instrument :  
BNA\_F  
ClientSampleId :

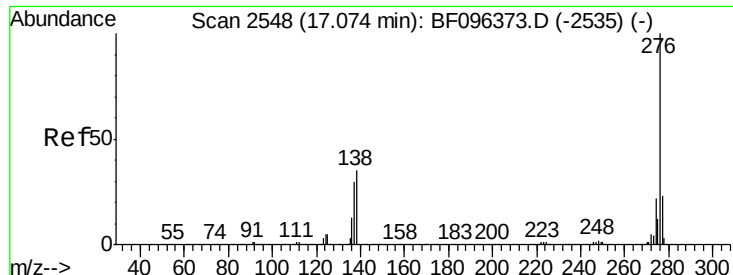
Tot Ion:252 Resp: 59904  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.4 27.6  
125 17.4 13.1 19.7



#89  
Benzo(a)pyrene  
Concen: 2.98 ng  
RT: 15.17 min Scan# 2225  
Delta R.T. -0.02 min  
Lab File: BF096574.D  
Acq: 7 Jul 2017 22:16

Tgt Ion:252 Resp: 39719  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.5 26.3  
125 17.7 11.0 16.4#





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.14 ng  
 RT: 16.97 min Scan# 2530  
 Delta R.T. -0.04 min  
 Lab File: BF096574.D  
 Acq: 7 Jul 2017 22:16

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 276   | Resp: | 23215 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 26.4  | 18.6  | 28.0  |
| 138      | 40.4  | 25.4  | 38.0  |

