

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF112719\  
 Data File : BF118057.D  
 Acq On : 27 Nov 2019 22:47  
 Operator : JU  
 Sample : K5999-07  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Nov 28 00:17:27 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF111319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 26 05:38:20 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.89  | 152  | 145838   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.17  | 136  | 554230   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.93  | 164  | 273568   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.43 | 188  | 430852   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.08 | 240  | 298930   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.59 | 264  | 276017   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.50  | 112  | 776784   | 94.28  | ng    | 0.00     |
| 7) Phenol-d6                | 6.52  | 99   | 1036096  | 104.26 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.45  | 82   | 628478   | 67.41  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.73 | 330  | 257801   | 89.01  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.25  | 172  | 1177065  | 77.19  | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.02 | 244  | 1022827  | 62.53  | ng    | 0.00     |

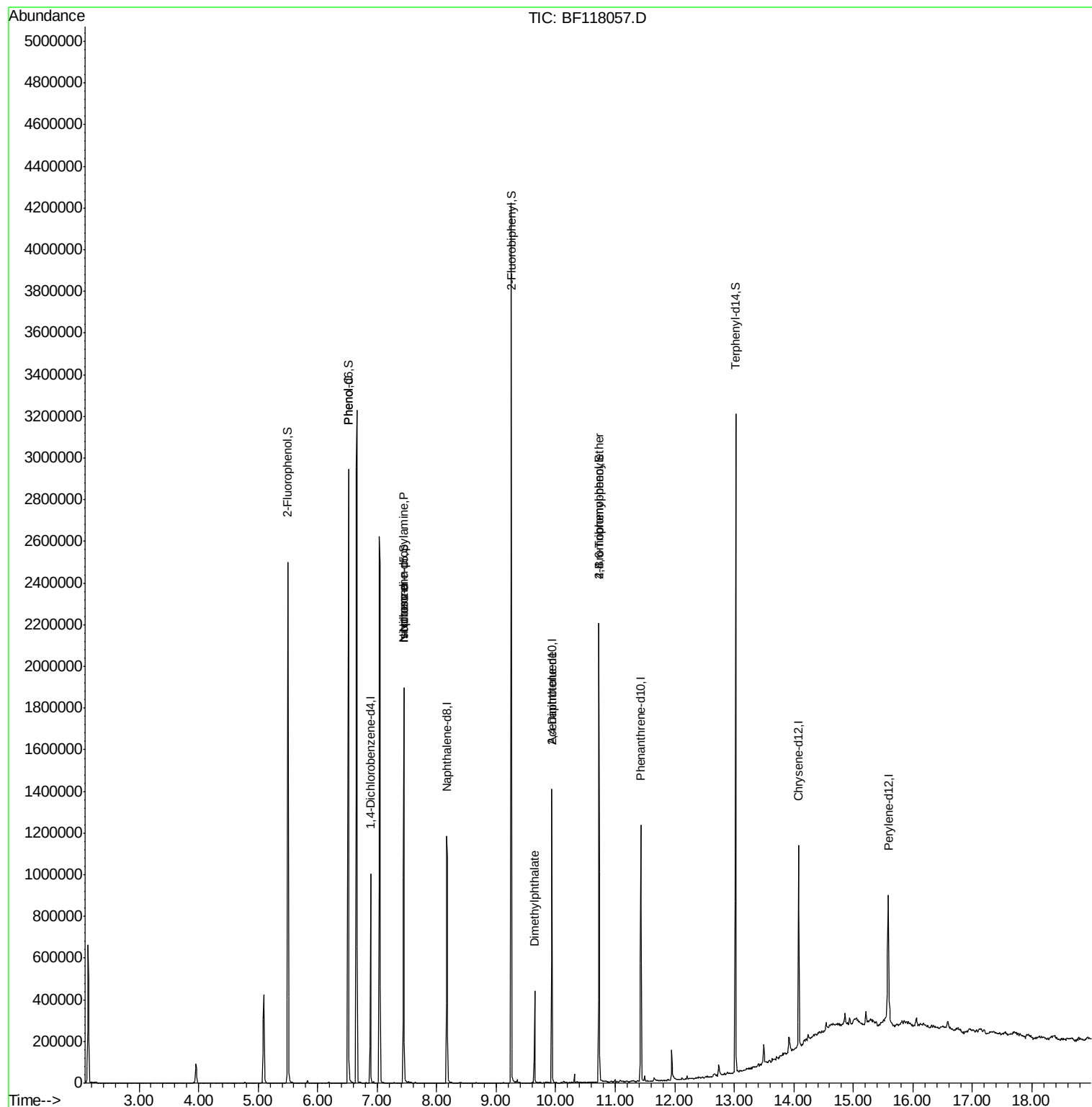
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 9) Benzaldehyde                | 6.52  | 77   | 2203     | Below Cal |       | # 1    |
| 10) Phenol                     | 6.52  | 94   | 21794    | 2.110     | ng    | # 74   |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 86053    | 14.037    | ng    | # 75   |
| 25) Isophorone                 | 7.45  | 82   | 628471   | 36.778    | ng    | # 62   |
| 50) Dimethylphthalate          | 9.65  | 163  | 185553   | 9.672     | ng    | 97     |
| 57) 2,4-Dinitrotoluene         | 9.93  | 165  | 35140    | 6.589     | ng    | # 24   |
| 67) 4-Bromophenyl-phenylether  | 10.73 | 248  | 15688    | 3.375     | ng    | # 1    |
| 75) Fluoranthene               | 12.53 | 202  | 114      | Below Cal |       | 63     |

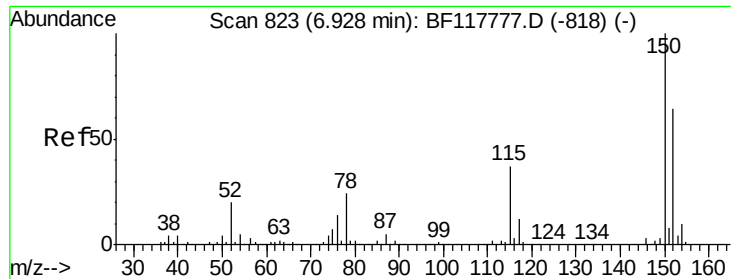
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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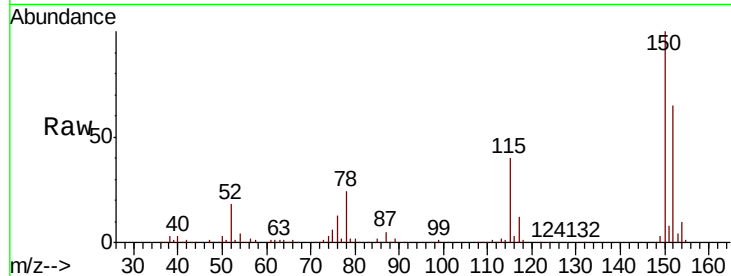




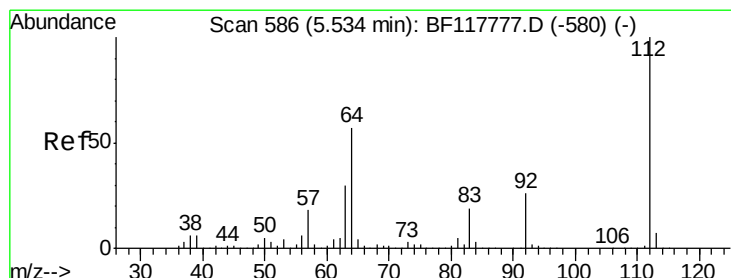
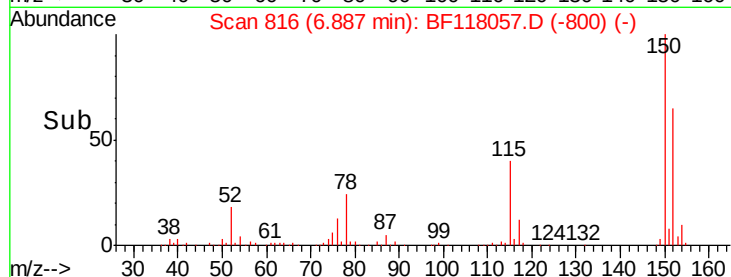
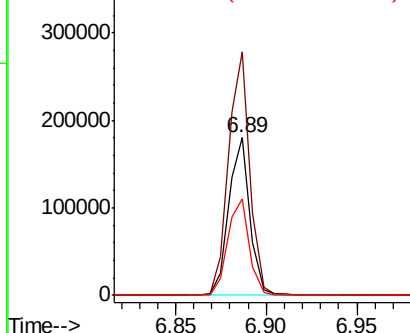
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.89 min Scan# 816  
 Delta R.T. -0.01 min  
 Lab File: BF118057.D  
 Acq: 27 Nov 2019 22:47

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 145838  
 Ion Ratio Lower Upper  
 152 100  
 150 154.7 125.3 187.9  
 115 61.3 47.0 70.4

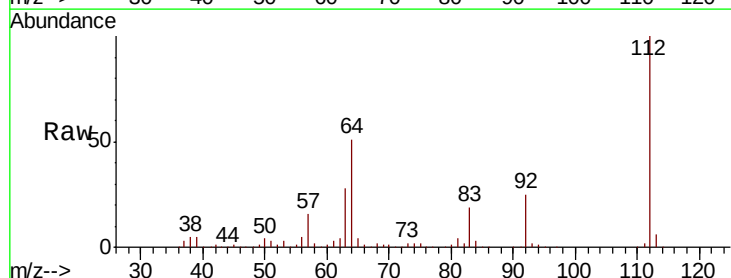


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

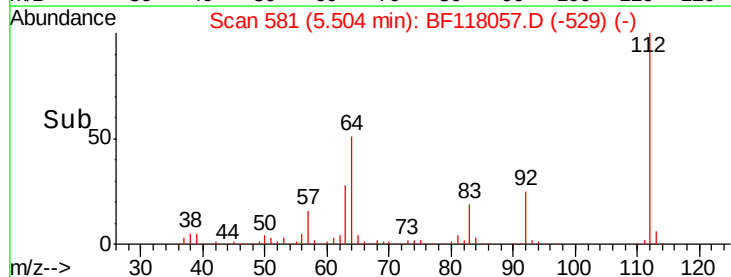
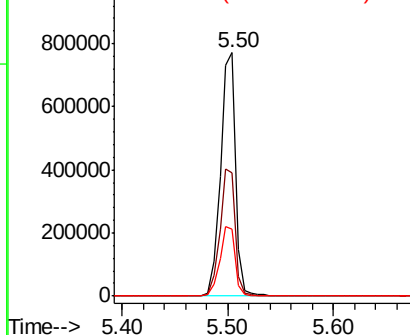


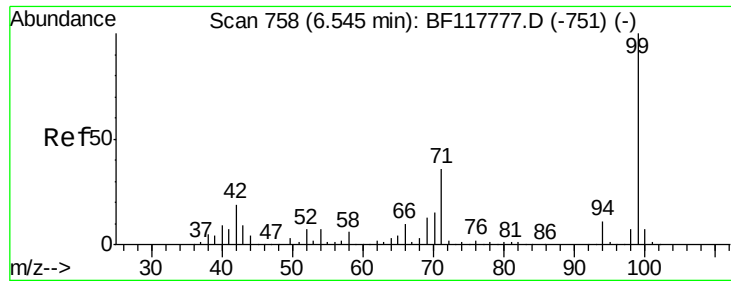
#5  
 2-Fluorophenol  
 Concen: 94.282 ng  
 RT: 5.50 min Scan# 581  
 Delta R.T. 0.01 min  
 Lab File: BF118057.D  
 Acq: 27 Nov 2019 22:47

Tgt Ion:112 Resp: 776784  
 Ion Ratio Lower Upper  
 112 100  
 64 50.6 45.6 68.4  
 63 27.6 24.1 36.1



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: 104.261 ng

RT: 6.52 min Scan# 753

Delta R.T. -0.01 min

Lab File: BF118057.D

Acq: 27 Nov 2019 22:47

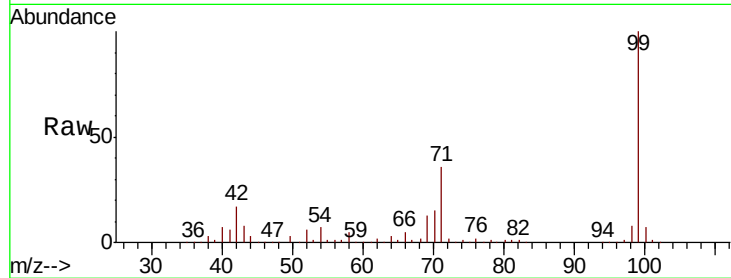
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1036096

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.0  | 14.9  | 22.3  |
| 71  | 36.3  | 28.6  | 43.0  |

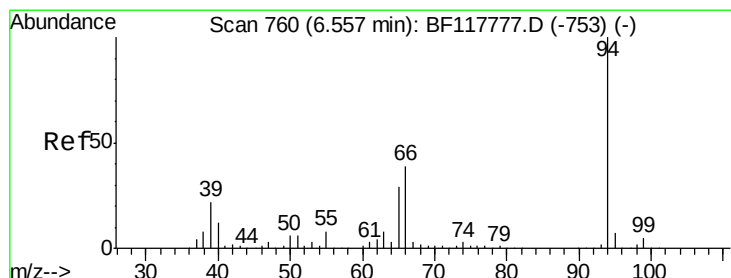
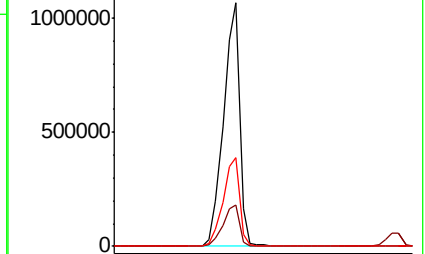
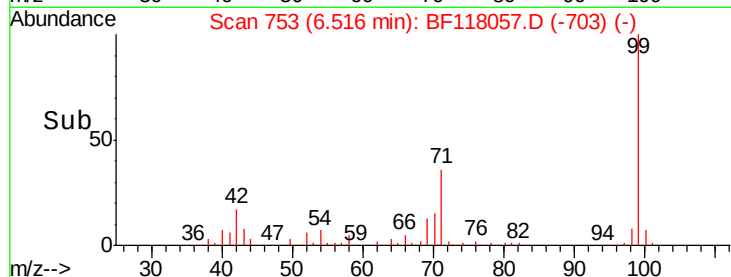


Abundance

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



#10

Phenol

Concen: 2.110 ng

RT: 6.52 min Scan# 754

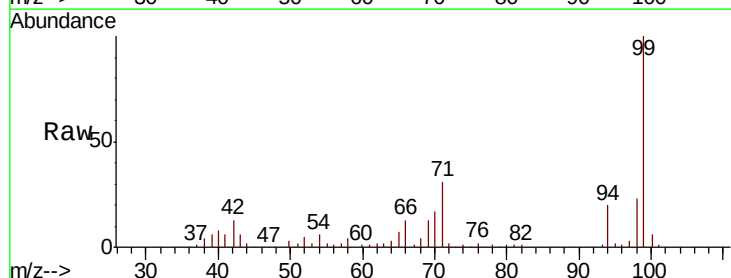
Delta R.T. -0.01 min

Lab File: BF118057.D

Acq: 27 Nov 2019 22:47

Tgt Ion: 94 Resp: 21794

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 94  | 100   |       |       |
| 65  | 32.8  | 8.9   | 48.9  |
| 66  | 62.6  | 18.7  | 58.7  |

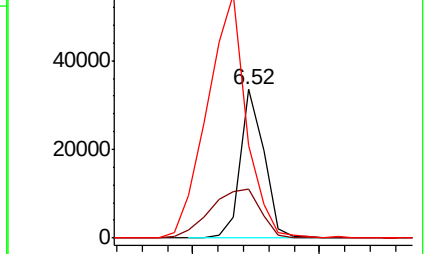
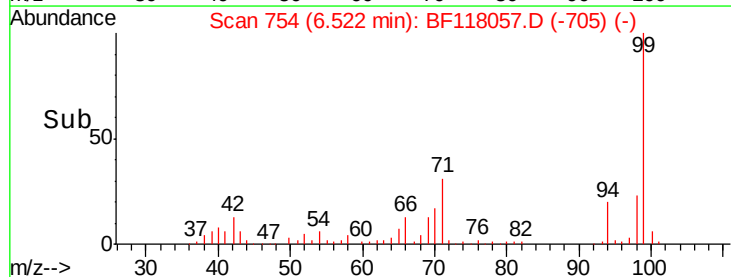


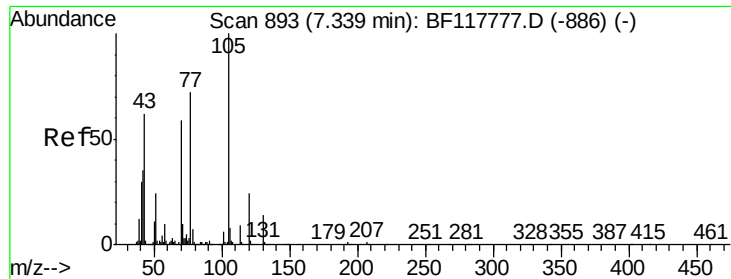
Abundance

Ion 94.00 (93.70 to 94.70): BF1

Ion 65.00 (64.70 to 65.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

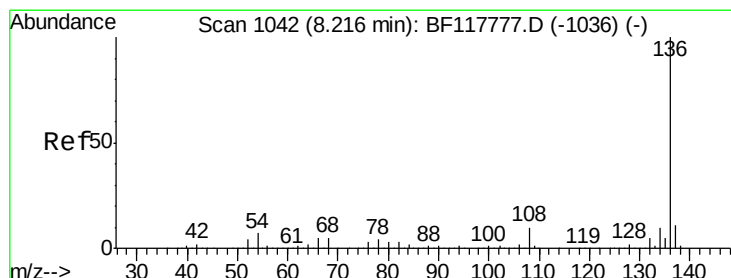
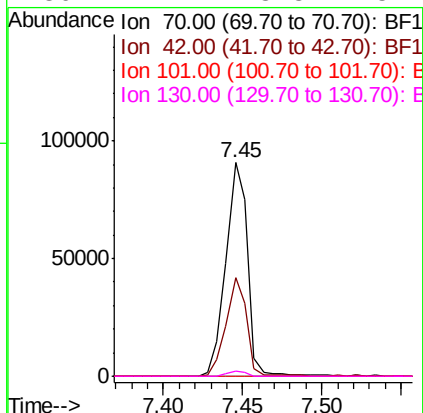
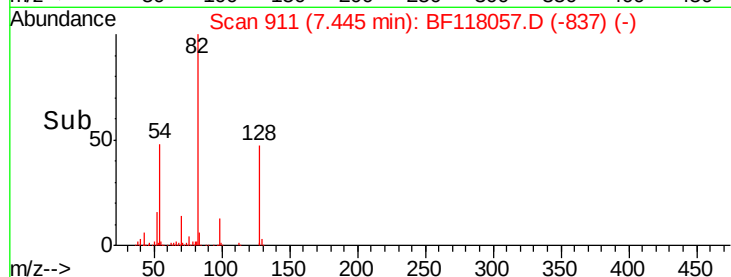
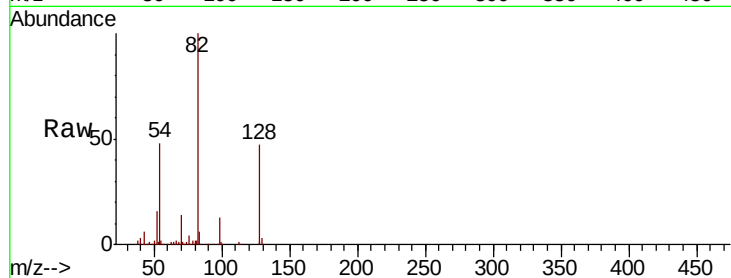




#19  
n-Nitroso-di-n-propylamine  
Concen: 14.037 ng  
RT: 7.45 min Scan# 911  
Delta R.T. 0.14 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

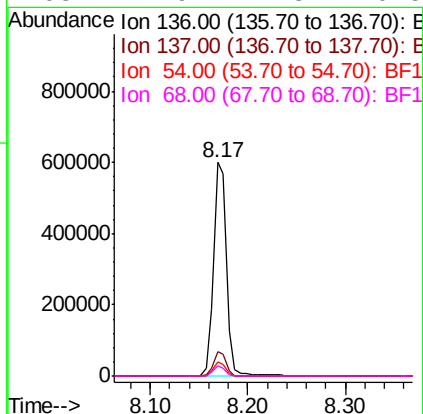
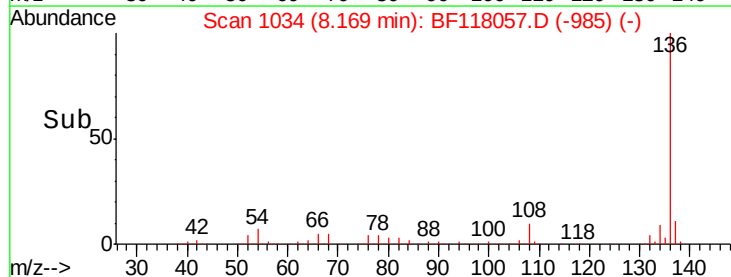
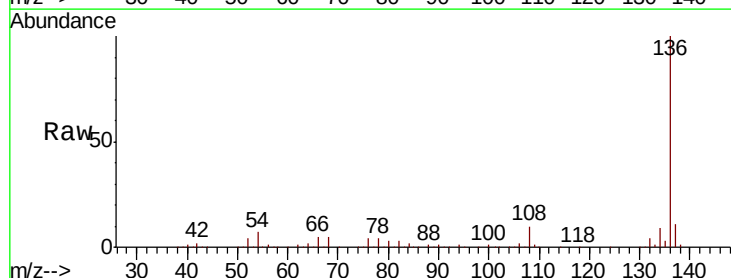
Instrument :  
BNA\_F  
ClientSampleId :

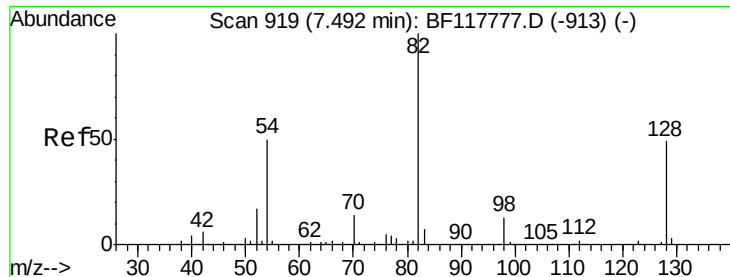
Tot Ion: 70 Resp: 86053  
Ion Ratio Lower Upper  
70 100  
42 46.1 47.4 71.2#  
101 0.0 8.4 12.6#  
130 2.1 18.8 28.2#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. -0.01 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

Tgt Ion: 136 Resp: 554230  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.0 13.4  
54 6.7 5.4 8.2  
68 4.9 4.3 6.5

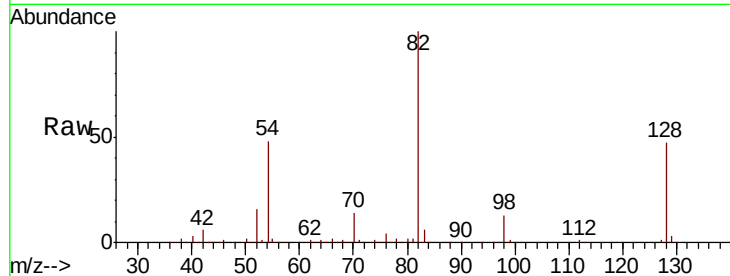




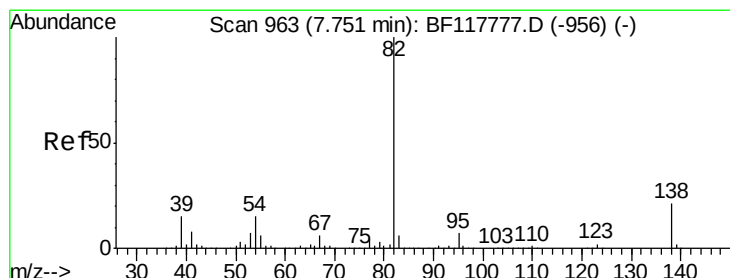
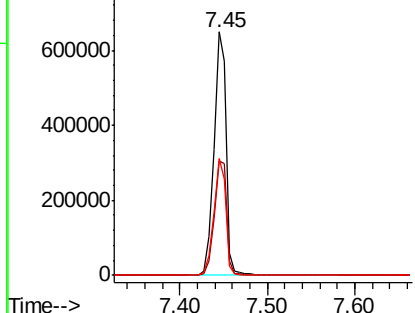
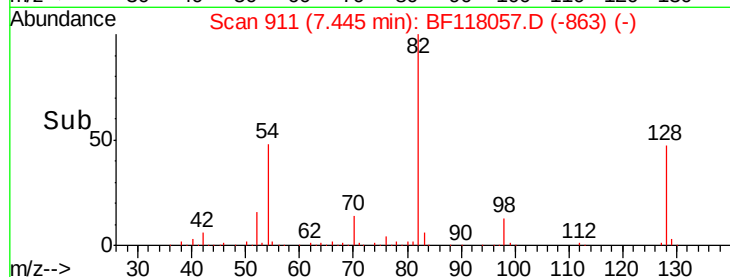
#23  
 Nitrobenzene-d5  
 Concen: 67.410 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.02 min  
 Lab File: BF118057.D  
 Acq: 27 Nov 2019 22:47

Instrument :  
 BNA\_F  
 ClientSampled :

Tot Ion: 82 Resp: 628478  
 Ion Ratio Lower Upper  
 82 100  
 128 47.0 38.9 58.3  
 54 48.1 39.8 59.6

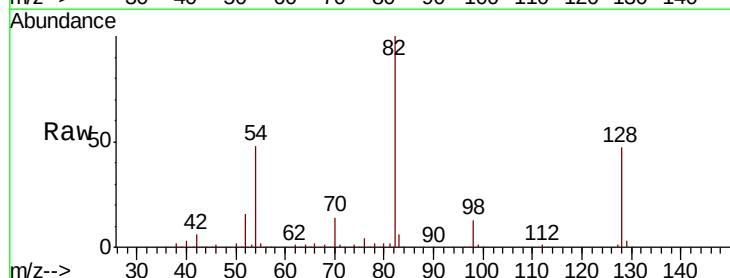


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

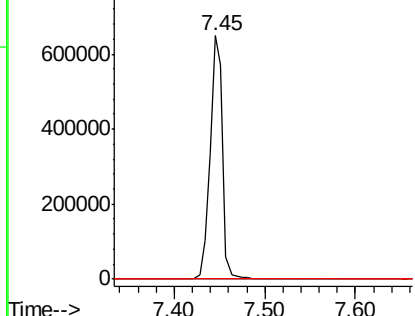
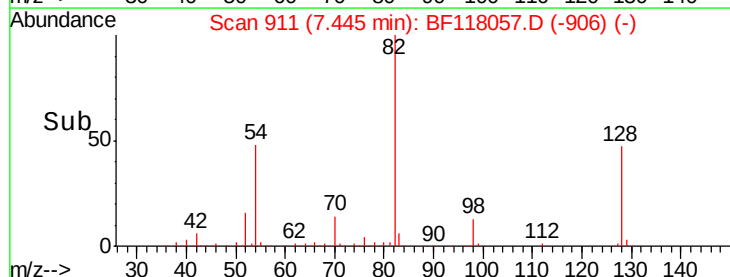


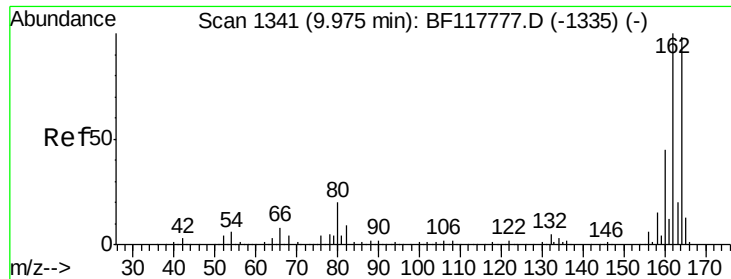
#25  
 Isophorone  
 Concen: 36.778 ng  
 RT: 7.45 min Scan# 911  
 Delta R.T. -0.27 min  
 Lab File: BF118057.D  
 Acq: 27 Nov 2019 22:47

Tgt Ion: 82 Resp: 628471  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.8 8.8#  
 138 0.0 16.5 24.7#



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





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF118057.D

Acq: 27 Nov 2019 22:47

Instrument :

BNA\_F

ClientSampleId :

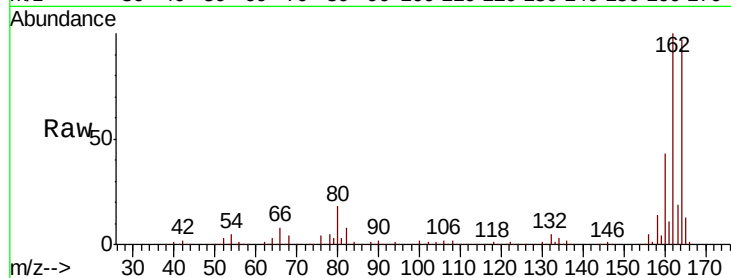
Tot Ion:164 Resp: 273568

Ion Ratio Lower Upper

164 100

162 103.1 81.3 121.9

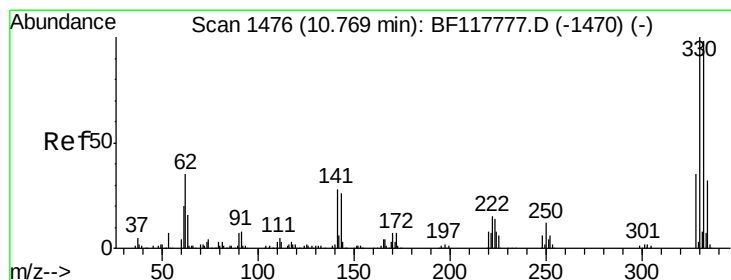
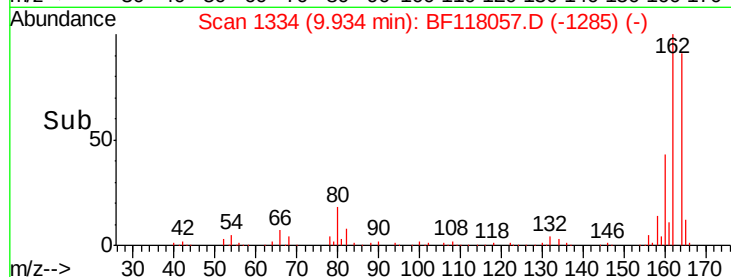
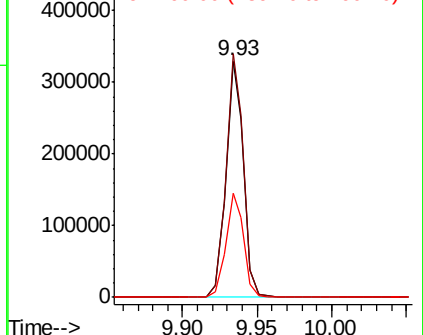
160 44.3 36.6 55.0



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



#42

2,4,6-Tribromophenol

Concen: 89.012 ng

RT: 10.73 min Scan# 1469

Delta R.T. -0.01 min

Lab File: BF118057.D

Acq: 27 Nov 2019 22:47

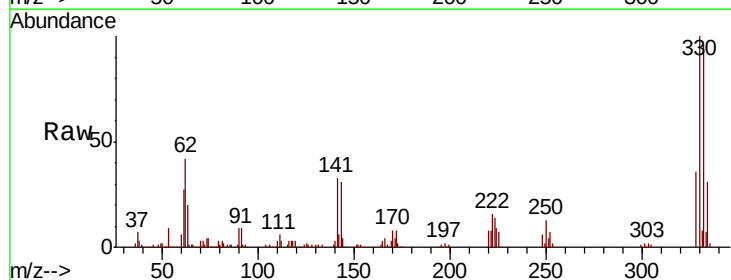
Tgt Ion:330 Resp: 257801

Ion Ratio Lower Upper

330 100

332 96.6 76.7 115.1

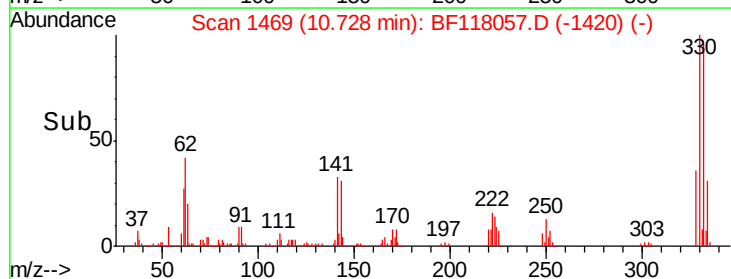
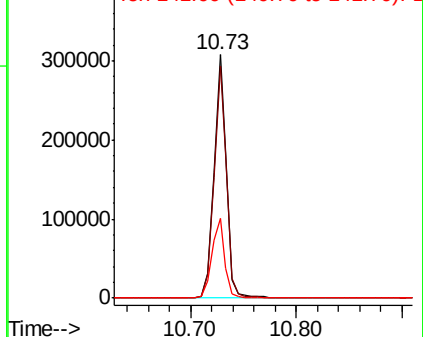
141 33.4 27.7 41.5

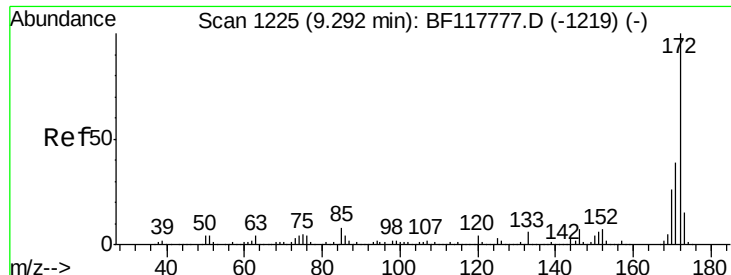


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

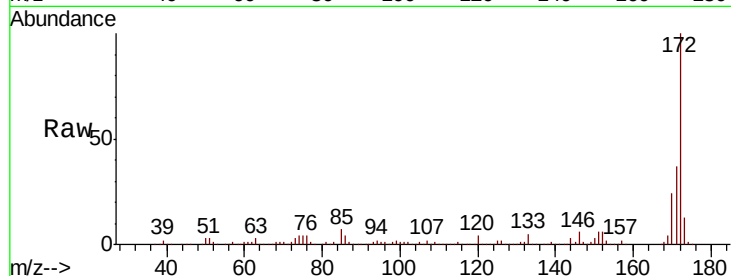




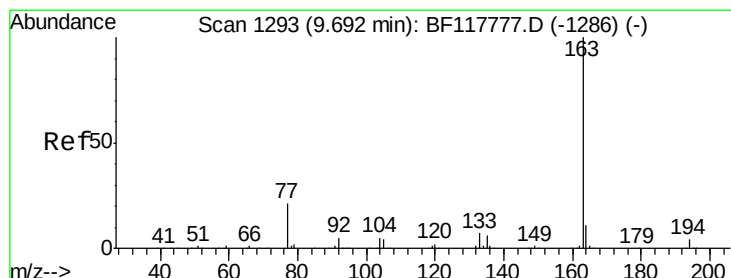
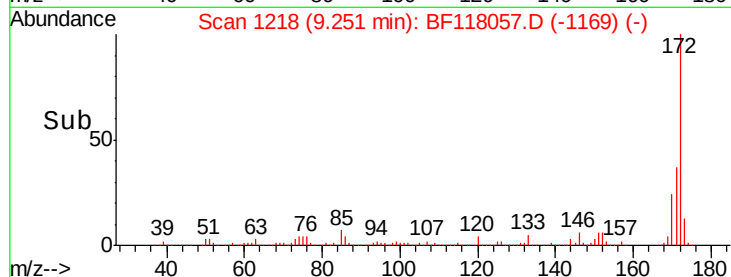
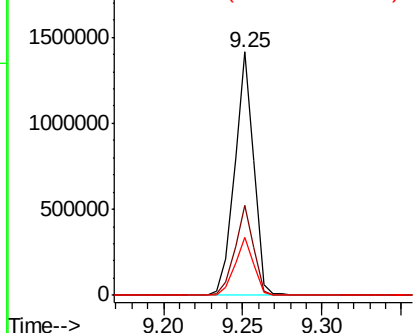
#45  
2-Fluorobiphenyl  
Concen: 77.191 ng  
RT: 9.25 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1177065  
Ion Ratio Lower Upper  
172 100  
171 36.8 30.9 46.3  
170 23.8 21.0 31.4

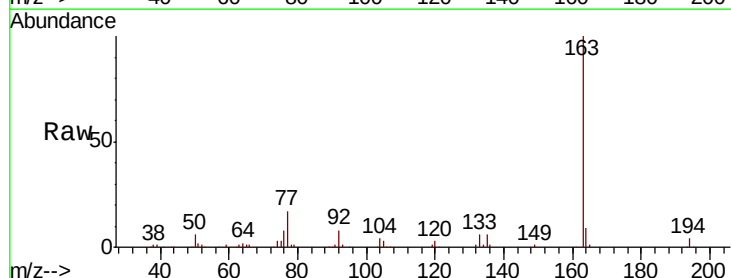


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

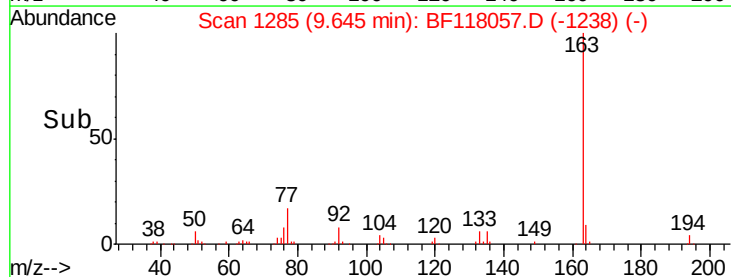
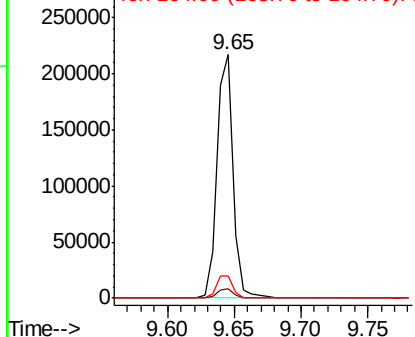


#50  
Dimethylphthalate  
Concen: 9.672 ng  
RT: 9.65 min Scan# 1285  
Delta R.T. -0.02 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

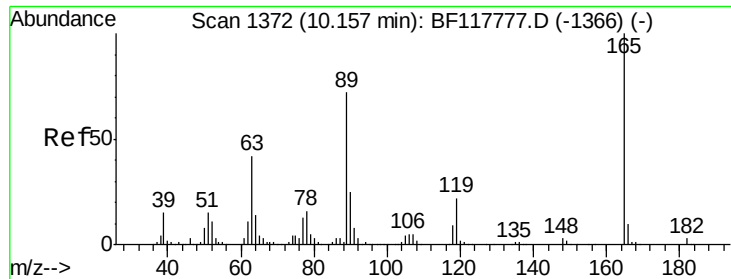
Tgt Ion:163 Resp: 185553  
Ion Ratio Lower Upper  
163 100  
194 3.9 3.3 4.9  
164 9.2 8.7 13.1



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



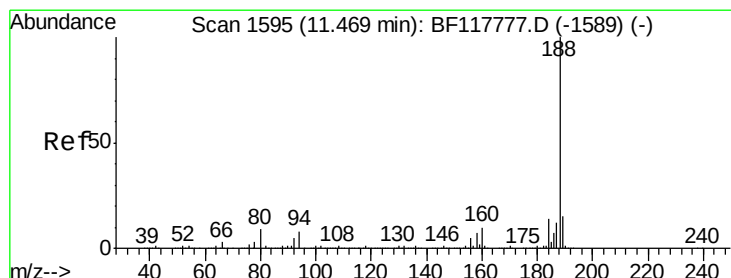
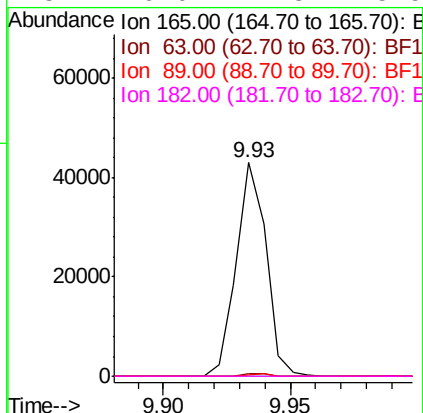
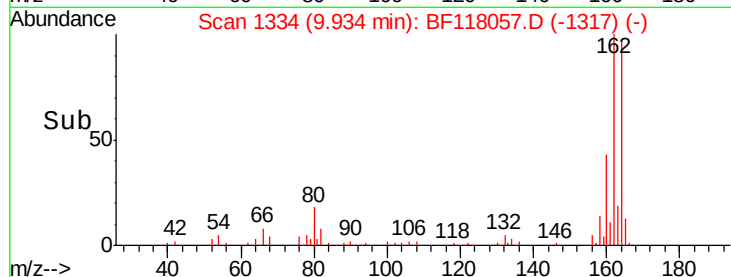
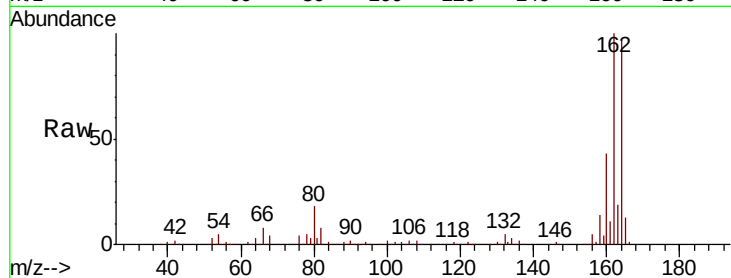




#57  
2,4-Dinitrotoluene  
Concen: 6.589 ng  
RT: 9.93 min Scan# 1334  
Delta R.T. -0.20 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

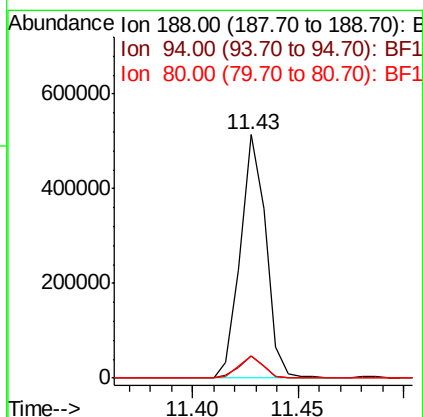
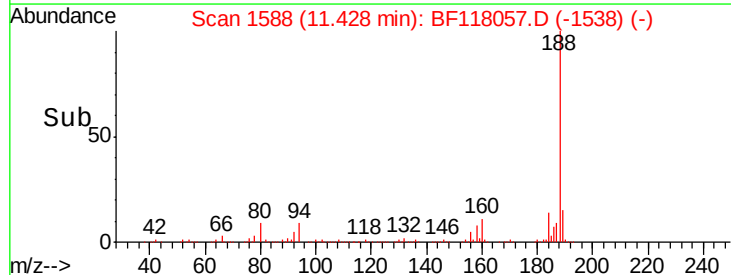
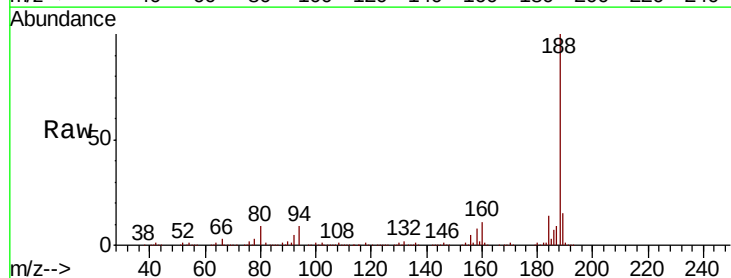
Instrument :  
BNA\_F  
ClientSampleId :

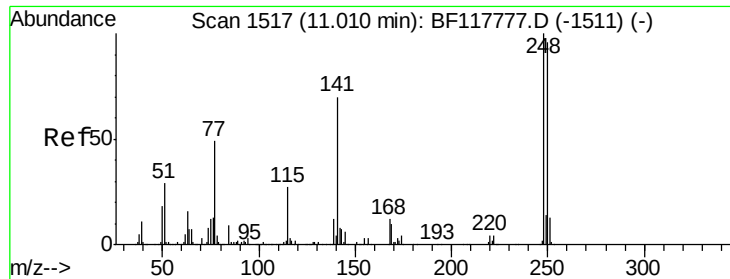
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 33.7  | 50.5# |
| 89      | 0.9   | 57.3  | 85.9# |
| 182     | 0.0   | 2.3   | 3.5#  |



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 8.9   | 6.6   | 10.0  |
| 80      | 9.2   | 7.2   | 10.8  |

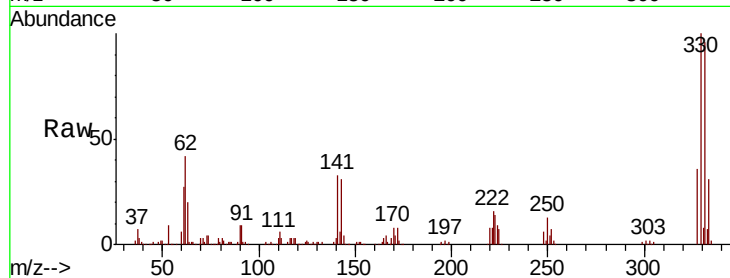




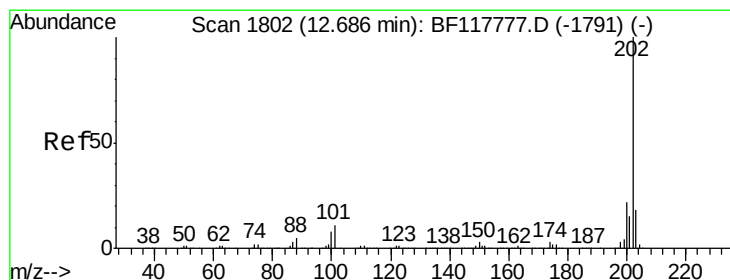
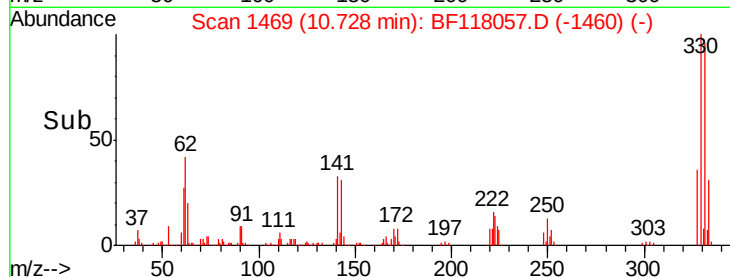
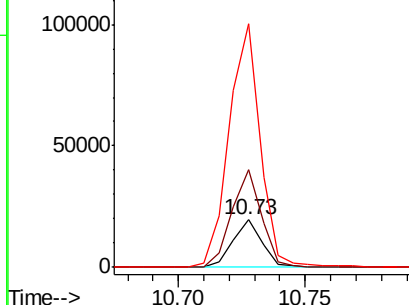
#67  
4-Bromophenyl-phenylether  
Concen: 3.375 ng  
RT: 10.73 min Scan# 1469  
Delta R.T. -0.25 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 15688  
Ion Ratio Lower Upper  
248 100  
250 204.4 76.6 115.0#  
141 511.0 55.9 83.9#

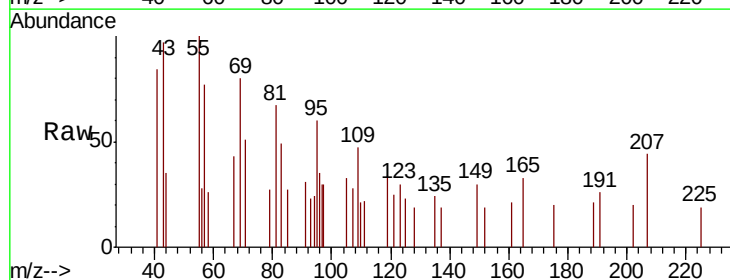


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

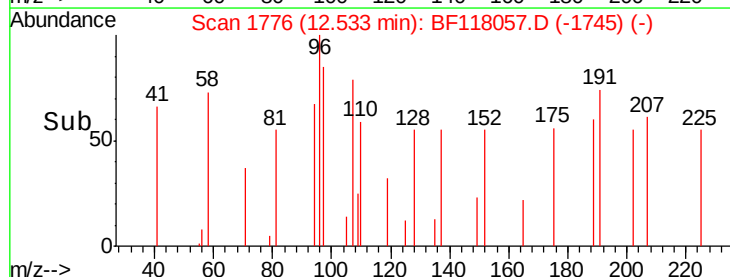
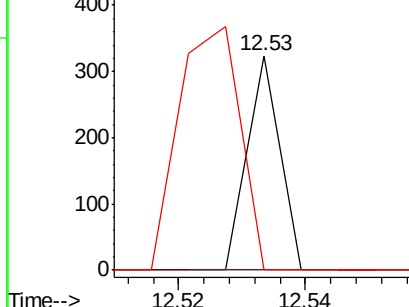


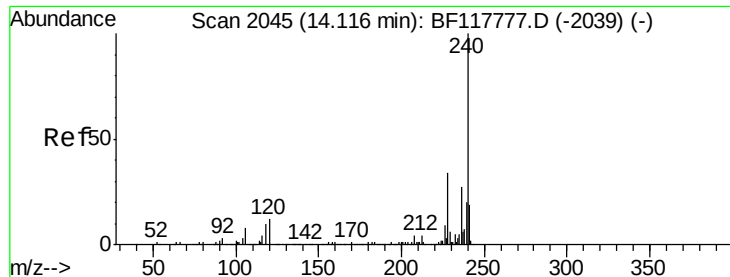
#75  
Fluoranthene  
Concen: Below Cal  
RT: 12.53 min Scan# 1776  
Delta R.T. -0.12 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

Tgt Ion:202 Resp: 114  
Ion Ratio Lower Upper  
202 100  
101 0.0 0.0 31.1  
203 0.0 0.0 38.2



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

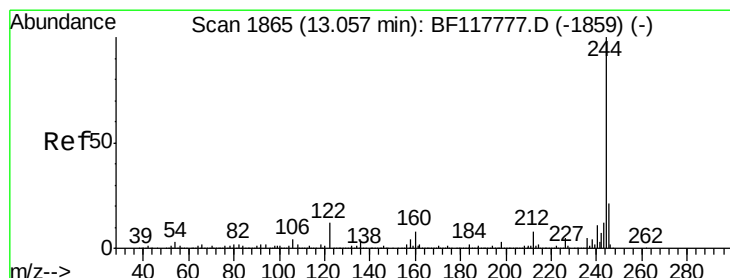
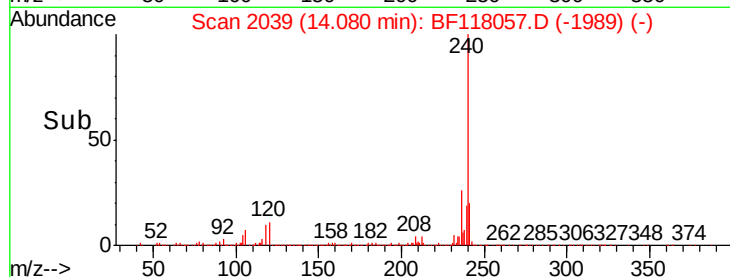
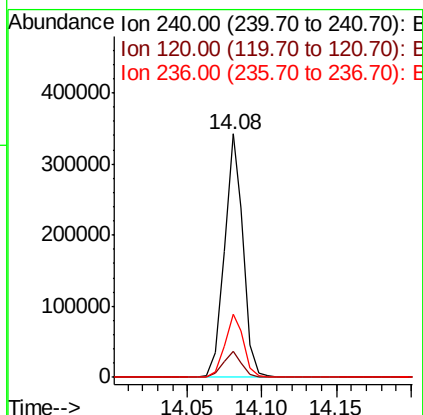
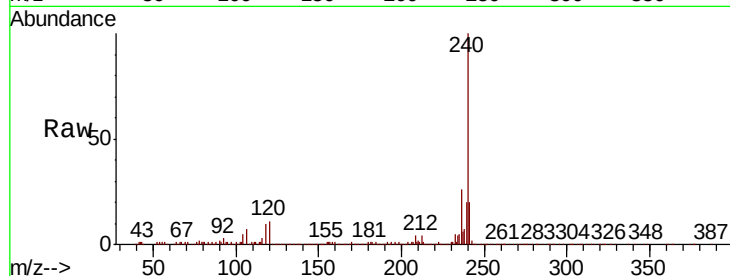




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.08 min Scan# 2039  
 Delta R.T. -0.01 min  
 Lab File: BF118057.D  
 Acq: 27 Nov 2019 22:47

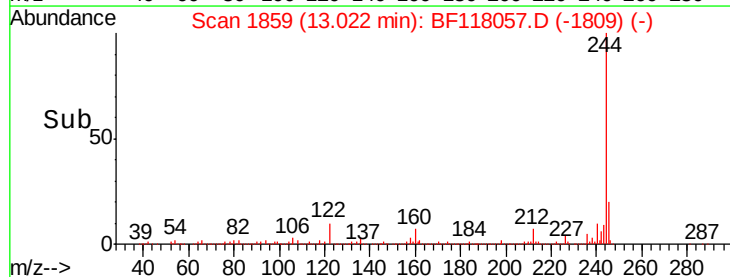
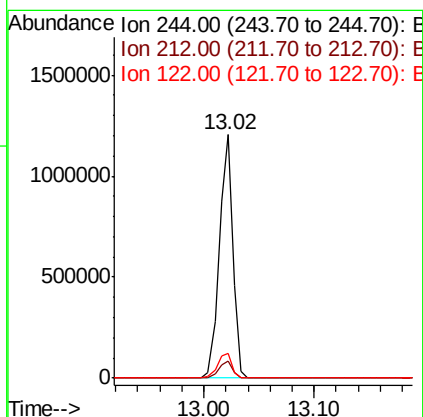
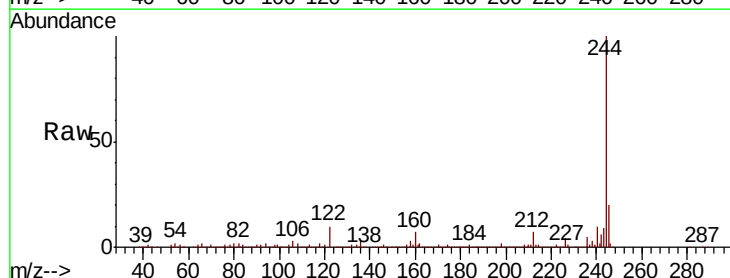
Instrument :  
 BNA\_F  
 ClientSampleId :

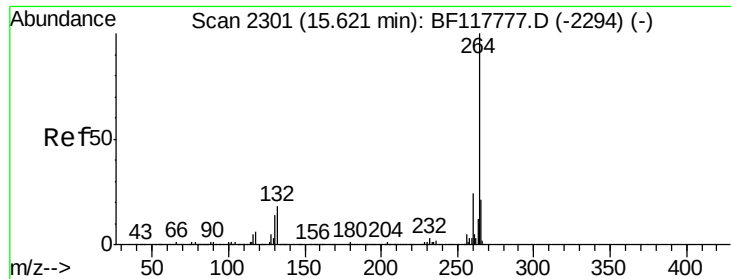
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.7  | 9.5   | 14.3  |
| 236     | 26.1  | 21.3  | 31.9  |



#79  
 Terphenyl-d14  
 Concen: 62.534 ng  
 RT: 13.02 min Scan# 1859  
 Delta R.T. -0.01 min  
 Lab File: BF118057.D  
 Acq: 27 Nov 2019 22:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.9   | 6.3   | 9.5   |
| 122     | 10.0  | 9.4   | 14.2  |





#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.59 min Scan# 2295  
Delta R.T. 0.01 min  
Lab File: BF118057.D  
Acq: 27 Nov 2019 22:47

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.5  | 19.4  | 29.0  |
| 265     | 22.1  | 17.1  | 25.7  |

