

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020420\  
 Data File : BF118813.D  
 Acq On : 4 Feb 2020 20:44  
 Operator : CG/JU  
 Sample : L1383-12  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Feb 05 06:34:11 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 03 16:26:03 2020  
 Response via : Initial Calibration

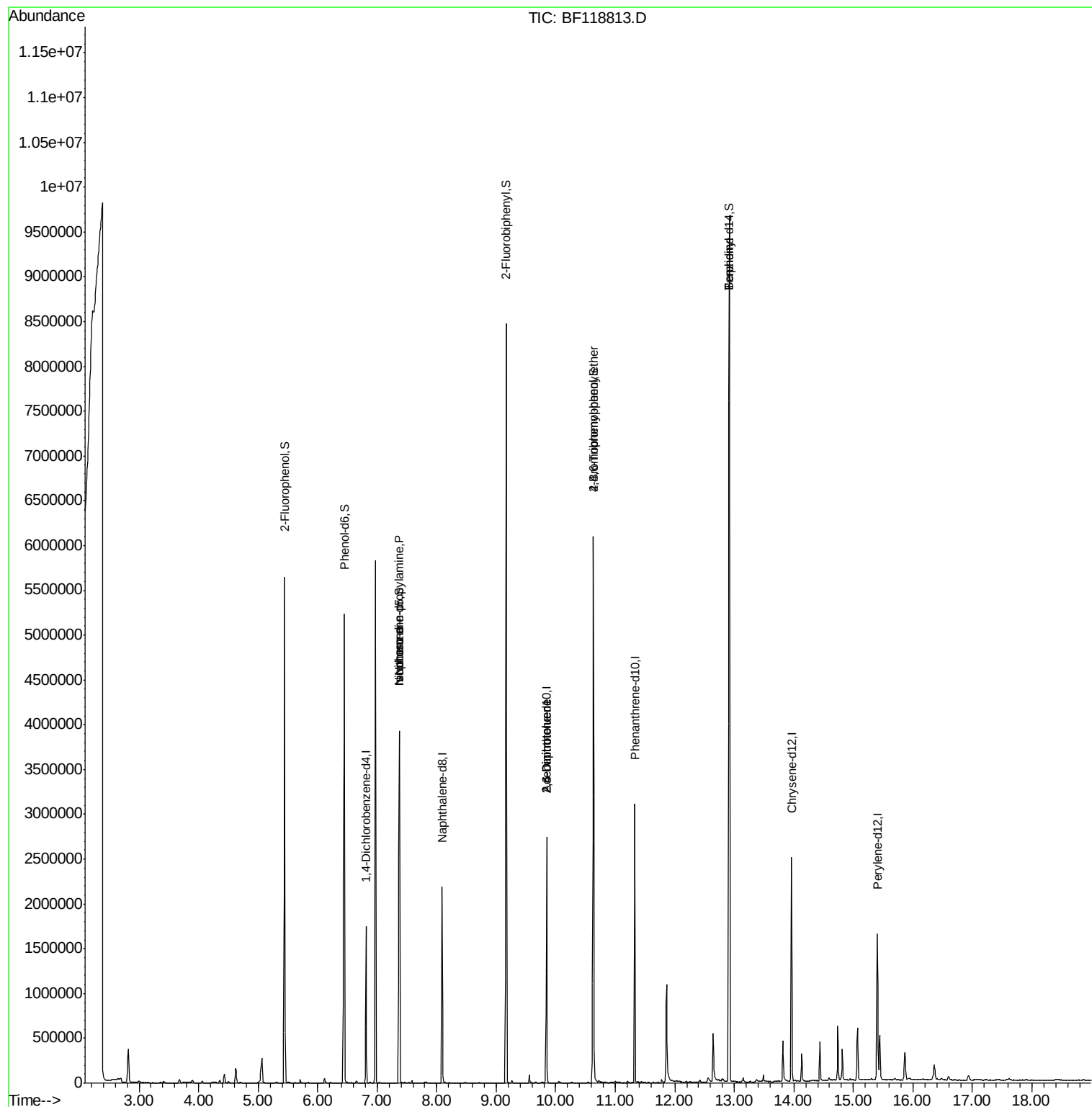
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.81  | 152  | 268562   | 20.00     | ng     | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 1030377  | 20.00     | ng     | -0.01    |
| 39) Acenaphthene-d10           | 9.85  | 164  | 582591   | 20.00     | ng     | -0.01    |
| 64) Phenanthrene-d10           | 11.33 | 188  | 1111926  | 20.00     | ng     | -0.01    |
| 76) Chrysene-d12               | 13.96 | 240  | 839038   | 20.00     | ng     | -0.02    |
| 87) Perylene-d12               | 15.40 | 264  | 772581   | 20.00     | ng     | -0.02    |
| System Monitoring Compounds    |       |      |          |           |        |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 1851647  | 130.51    | ng     | 0.01     |
| 7) Phenol-d6                   | 6.45  | 99   | 2166767  | 123.03    | ng     | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 1481347  | 85.69     | ng     | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.63 | 330  | 972267   | 139.48    | ng     | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 2983002  | 91.53     | ng     | -0.01    |
| 79) Terphenyl-d14              | 12.92 | 244  | 3929404  | 96.20     | ng     | -0.01    |
| Target Compounds               |       |      |          |           |        |          |
| 9) Benzaldehyde                | 6.37  | 77   | 405      | Below Cal | Qvalue | # 82     |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 204554   | 18.983 ng | #      | 79       |
| 25) Isophorone                 | 7.37  | 82   | 1481566  | 47.688 ng | #      | 63       |
| 51) 2,6-Dinitrotoluene         | 9.85  | 165  | 75878    | 8.360 ng  | #      | 31       |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 75878    | 6.317 ng  | #      | 34       |
| 67) 4-Bromophenyl-phenylether  | 10.63 | 248  | 62743    | 4.770 ng  | #      | 1        |
| 77) Benizidine                 | 12.92 | 184  | 53157    | 2.095 ng  | #      | 93       |

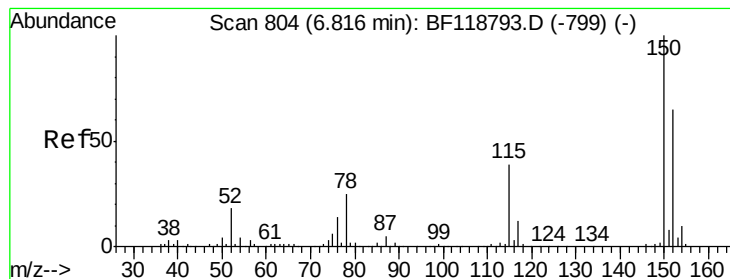
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF020420\  
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Sample : L1383-12  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :

Quant Time: Feb 05 06:34:11 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 03 16:26:03 2020  
Response via : Initial Calibration



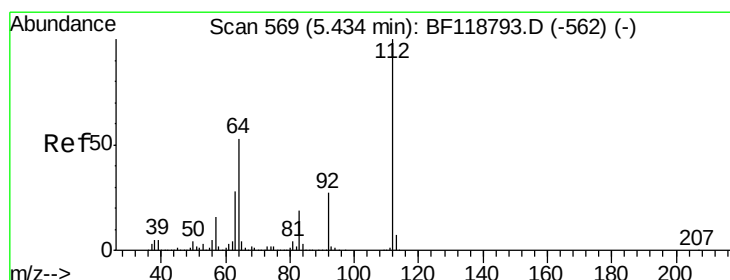
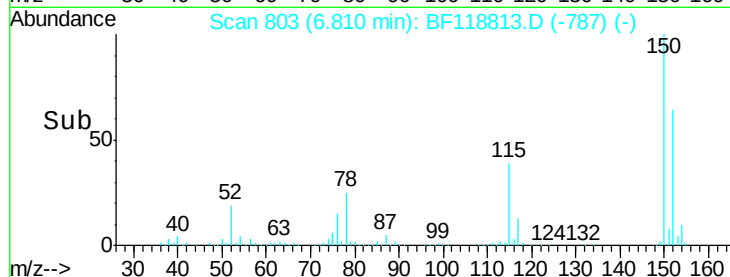
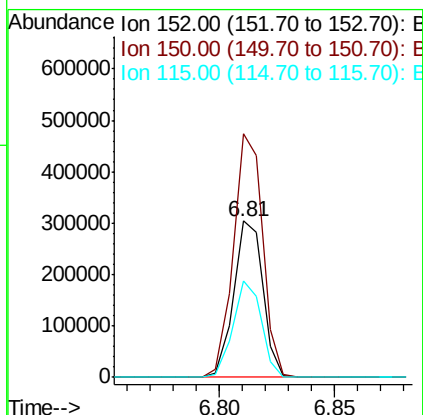
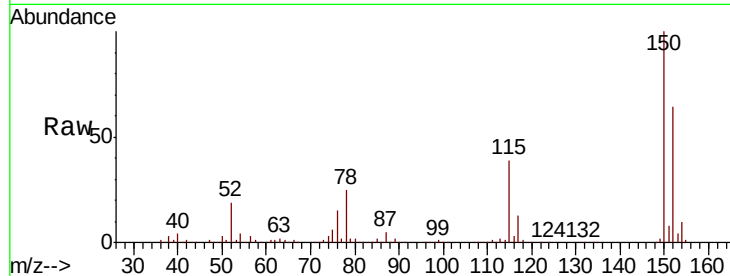


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.81 min Scan# 803  
Delta R.T. -0.01 min  
Lab File: BF118813.D  
Acq: 4 Feb 2020 20:44

Instrument :  
BNA\_G  
ClientSampleId :

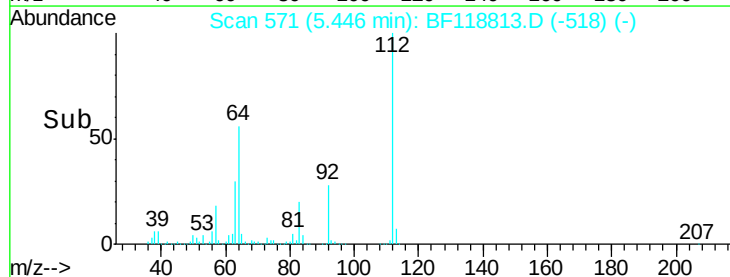
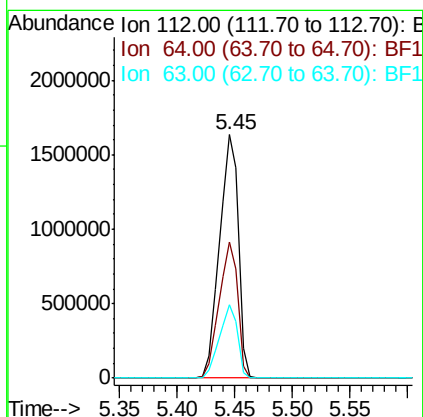
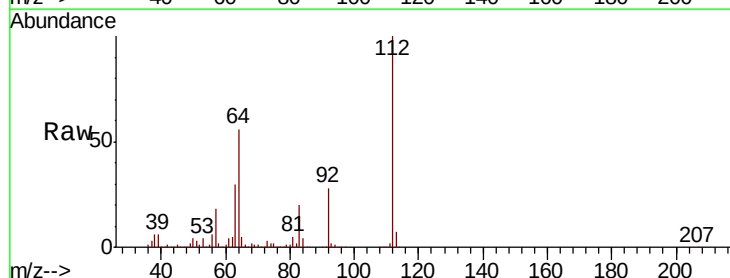
Tot Ion:152 Resp: 268562  
Ion Ratio Lower Upper  
152 100  
150 155.9 123.6 185.4  
115 61.5 48.2 72.2

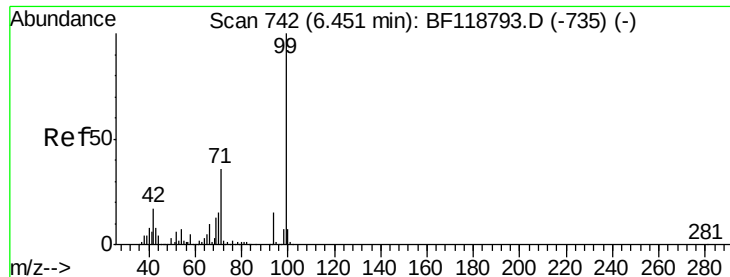


#5

2-Fluorophenol  
Concen: 130.511 ng  
RT: 5.45 min Scan# 571  
Delta R.T. 0.01 min  
Lab File: BF118813.D  
Acq: 4 Feb 2020 20:44

Tgt Ion:112 Resp: 1851647  
Ion Ratio Lower Upper  
112 100  
64 56.1 42.6 63.8  
63 30.0 22.2 33.4





#7

Phenol-d6

Concen: 123.029 ng

RT: 6.45 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

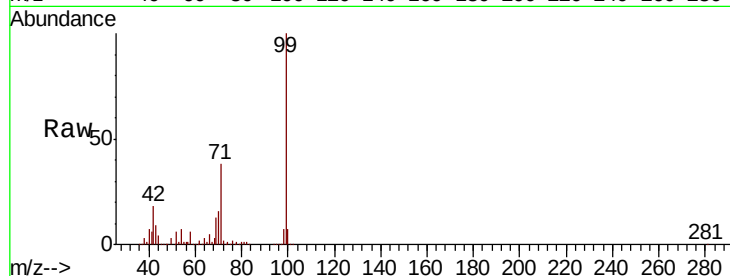
Instrument :

BNA\_G

ClientSampled :

Tot Ion: 99 Resp: 2166767

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.8  | 13.4  | 20.0  |
| 71  | 37.9  | 29.0  | 43.6  |

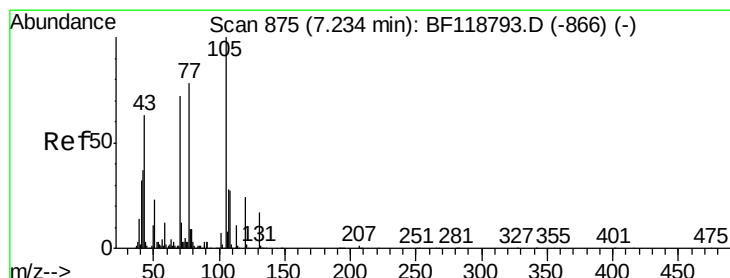
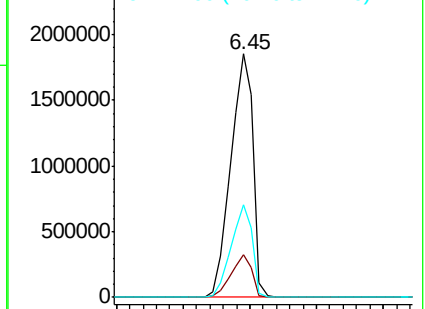
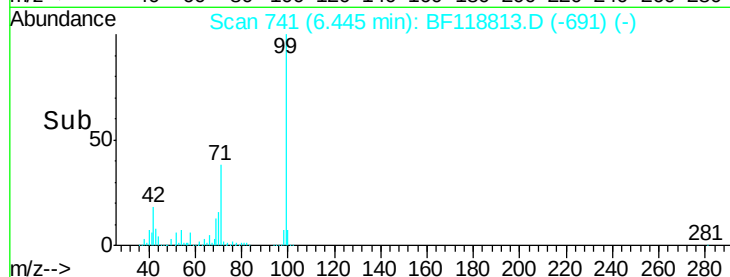


Abundance

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



#19

n-Nitroso-di-n-propylamine

Concen: 18.983 ng

RT: 7.37 min Scan# 898

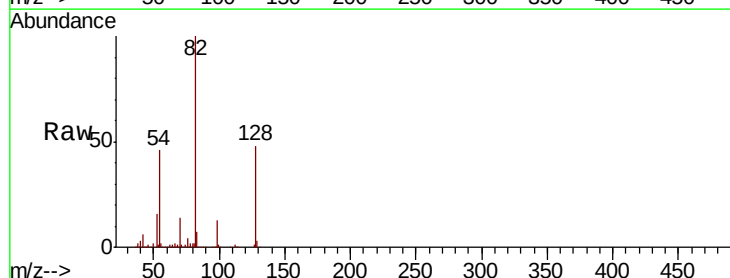
Delta R.T. 0.14 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

Tgt Ion: 70 Resp: 204554

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 45.3  | 41.5  | 62.3  |
| 101 | 0.0   | 8.3   | 12.5# |
| 130 | 2.1   | 19.2  | 28.8# |



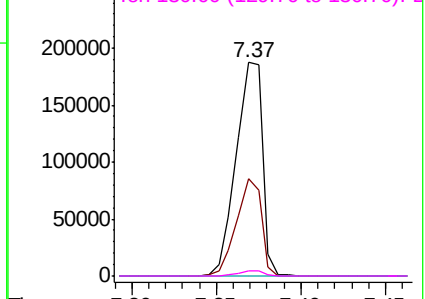
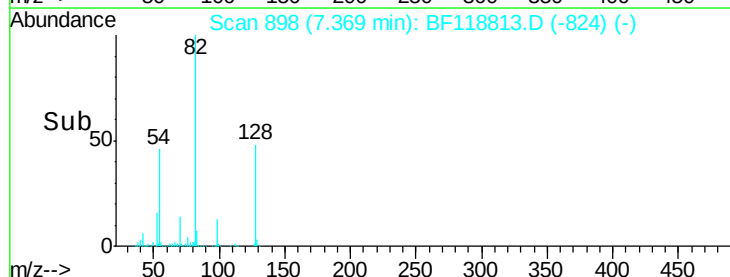
Abundance

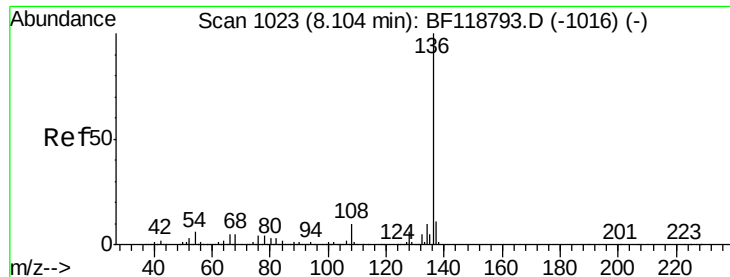
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



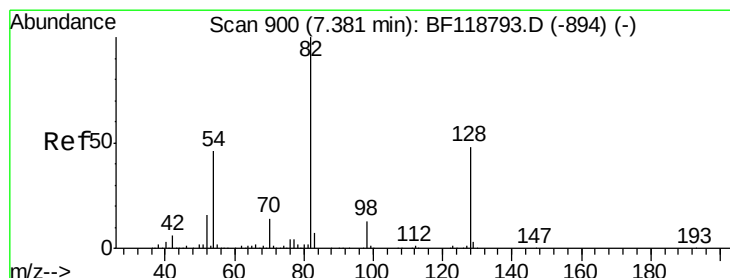
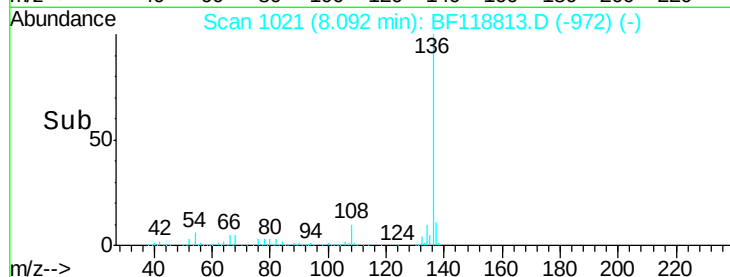
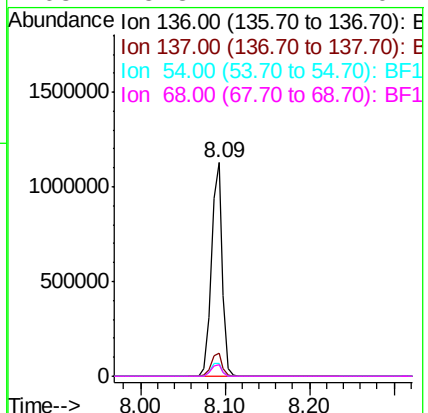
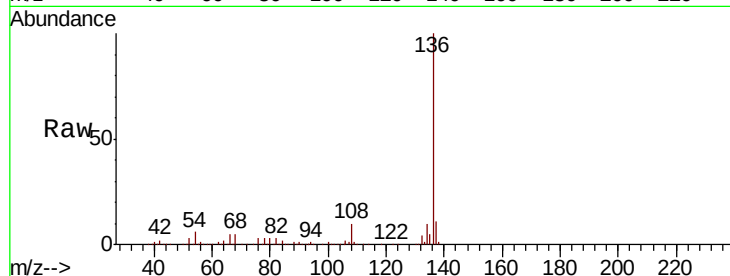


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.09 min Scan# 1021  
Delta R.T. -0.01 min  
Lab File: BF118813.D  
Acq: 4 Feb 2020 20:44

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:136 Resp: 1030377

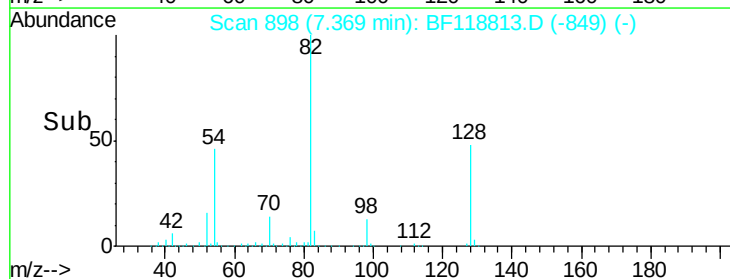
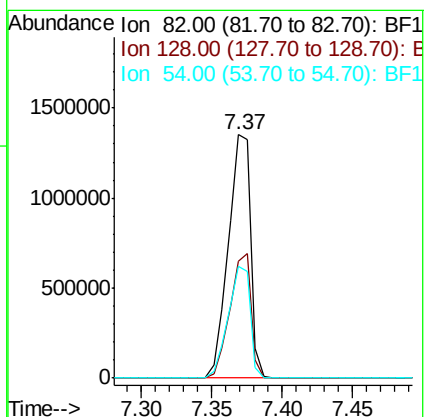
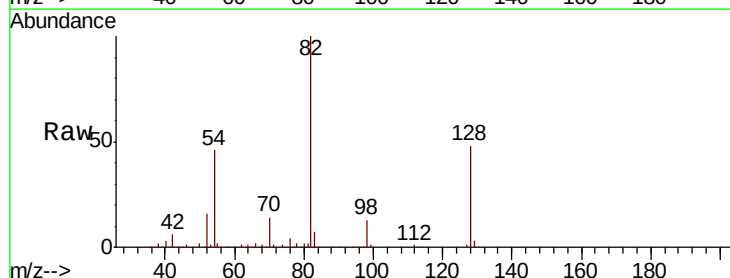
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.1  | 8.7   | 13.1  |
| 54  | 6.3   | 5.0   | 7.6   |
| 68  | 5.3   | 4.2   | 6.4   |

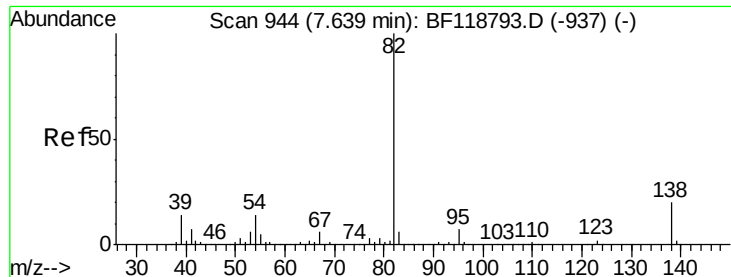


#23  
Nitrobenzene-d5  
Concen: 85.693 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: BF118813.D  
Acq: 4 Feb 2020 20:44

Tgt Ion: 82 Resp: 1481347

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 48.0  | 38.5  | 57.7  |
| 54  | 45.7  | 36.7  | 55.1  |





#25

Isophorone

Concen: 47.688 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.27 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

Instrument :

BNA\_G

ClientSampleId :

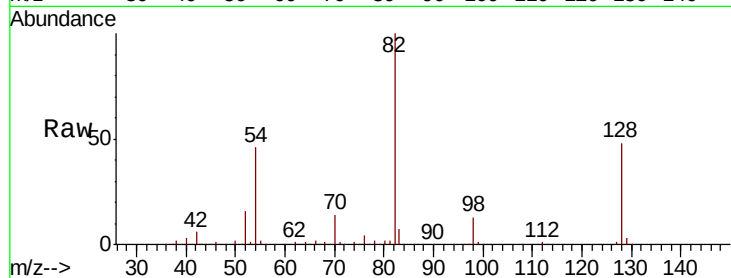
Tot Ion: 82 Resp: 1481566

Ion Ratio Lower Upper

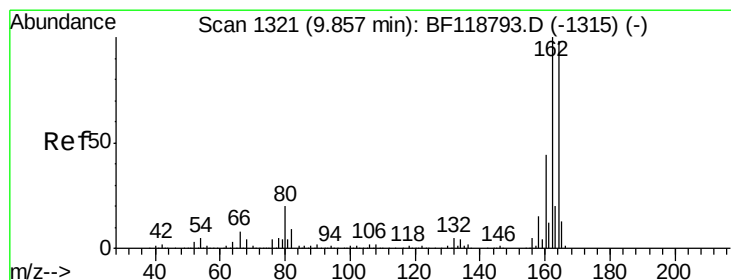
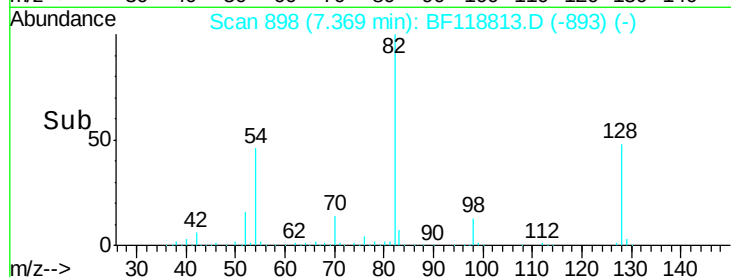
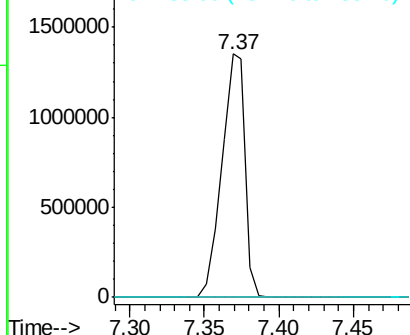
82 100

95 0.0 6.0 9.0#

138 0.0 15.7 23.5#



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: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

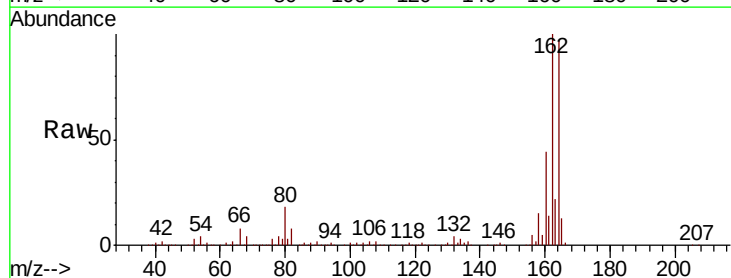
Tgt Ion:164 Resp: 582591

Ion Ratio Lower Upper

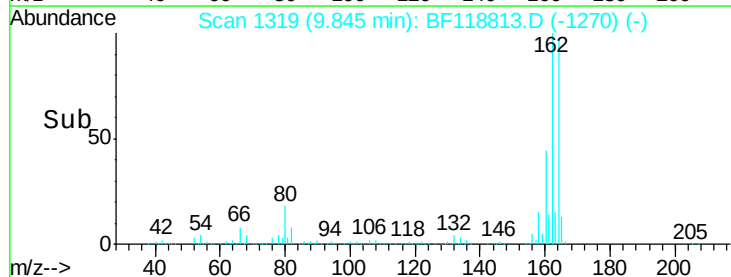
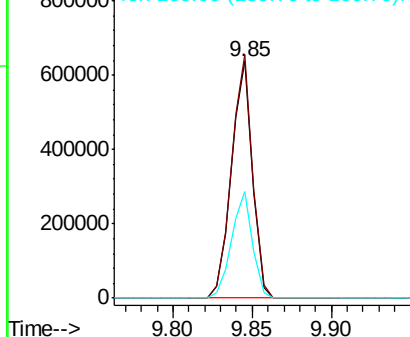
164 100

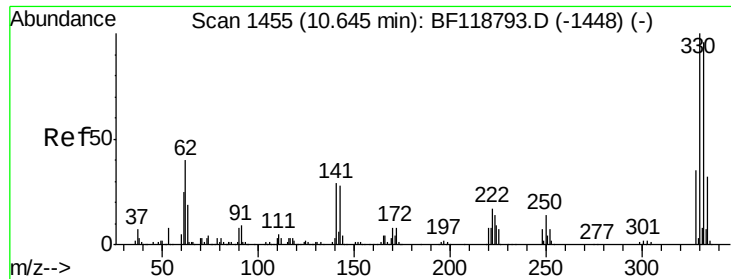
162 102.7 81.4 122.2

160 44.9 35.6 53.4



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

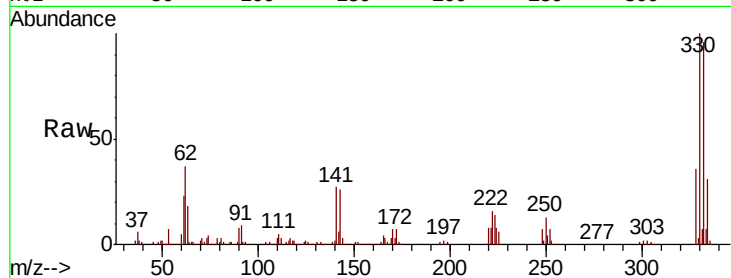




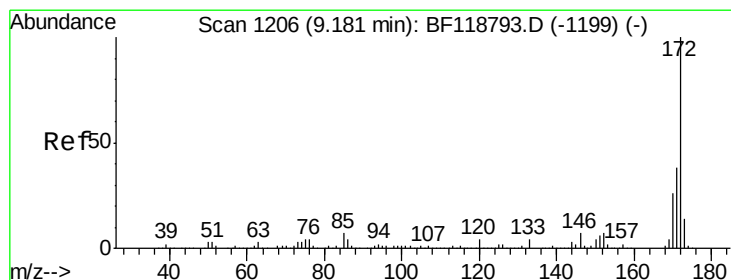
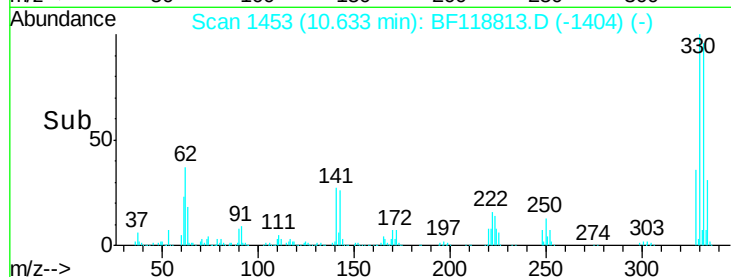
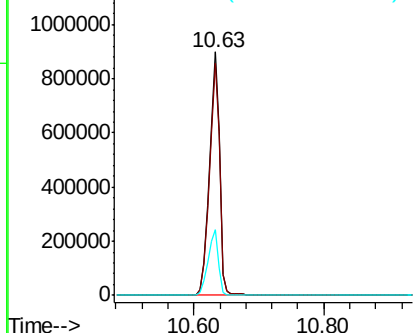
#42  
 2,4,6-Tribromophenol  
 Concen: 139.476 ng  
 RT: 10.63 min Scan# 1453  
 Delta R.T. -0.01 min  
 Lab File: BF118813.D  
 Acq: 4 Feb 2020 20:44

Instrument :  
 BNA\_G  
 ClientSampled :

Tot Ion:330 Resp: 972267  
 Ion Ratio Lower Upper  
 330 100  
 332 96.1 77.3 115.9  
 141 27.4 22.4 33.6

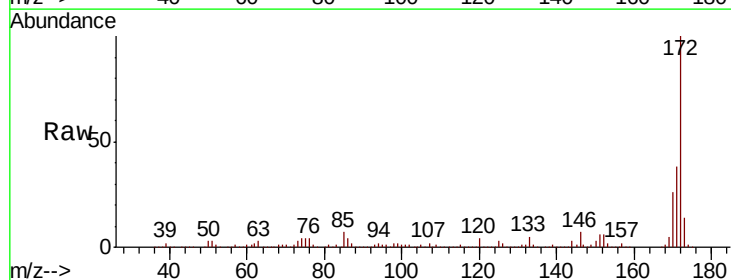


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

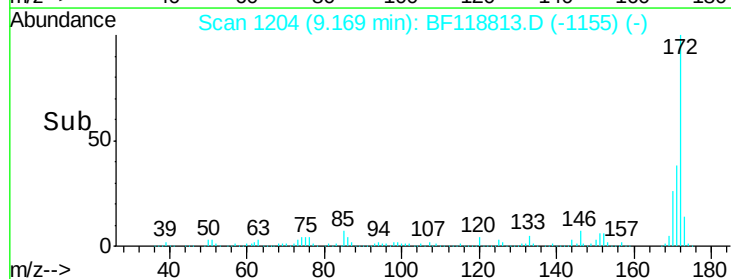
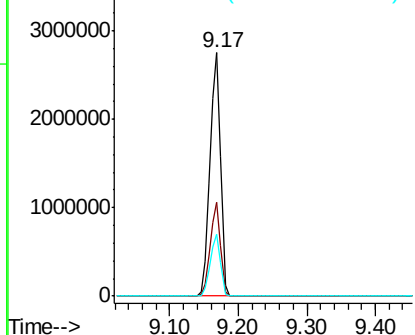


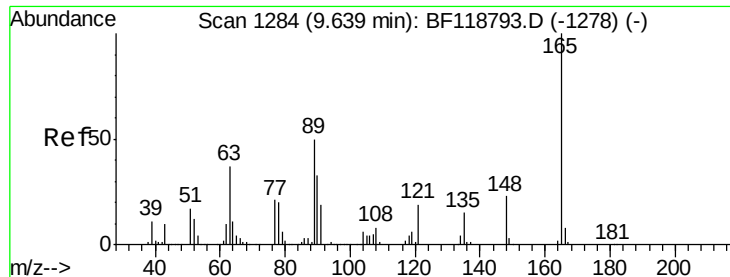
#45  
 2-Fluorobiphenyl  
 Concen: 91.534 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.01 min  
 Lab File: BF118813.D  
 Acq: 4 Feb 2020 20:44

Tgt Ion:172 Resp: 2983002  
 Ion Ratio Lower Upper  
 172 100  
 171 38.5 30.8 46.2  
 170 25.7 20.5 30.7



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

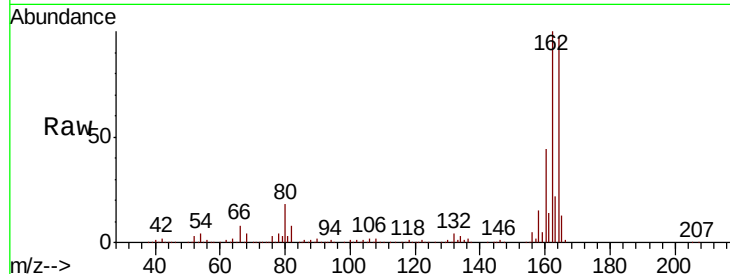




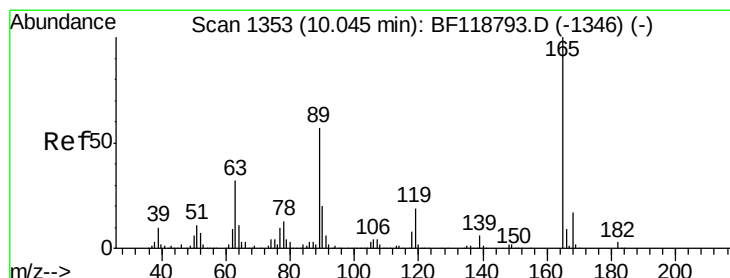
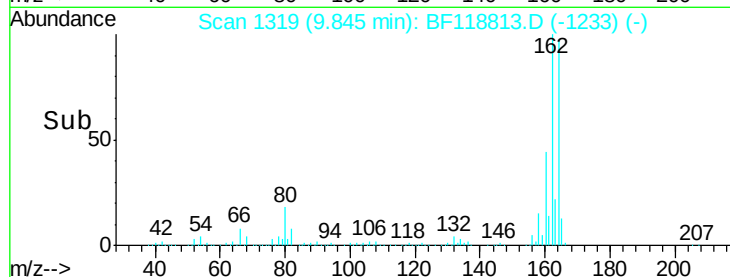
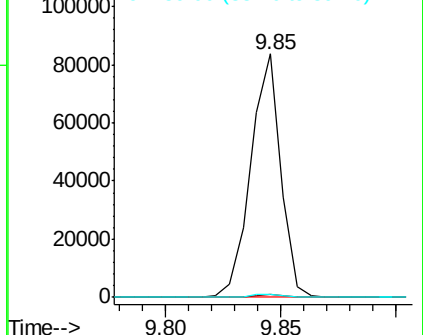
#51  
 2,6-Dinitrotoluene  
 Concen: 8.360 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. 0.21 min  
 Lab File: BF118813.D  
 Acq: 4 Feb 2020 20:44

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 37.4  | 56.0# |
| 89      | 1.3   | 39.7  | 59.5# |



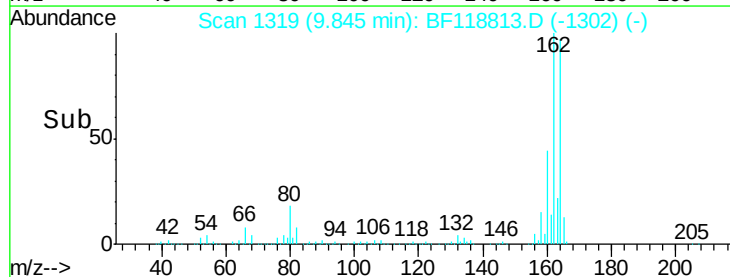
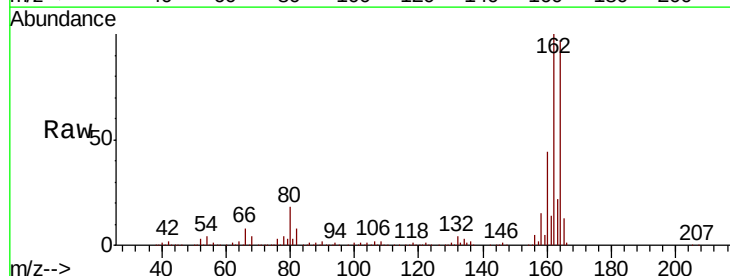
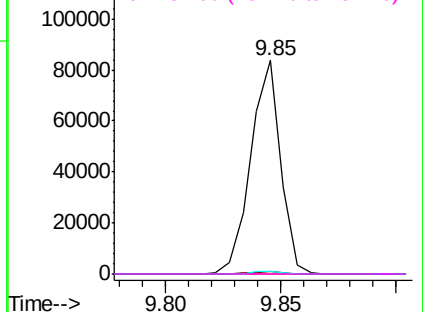
Abundance Ion 165.00 (164.70 to 165.70): E



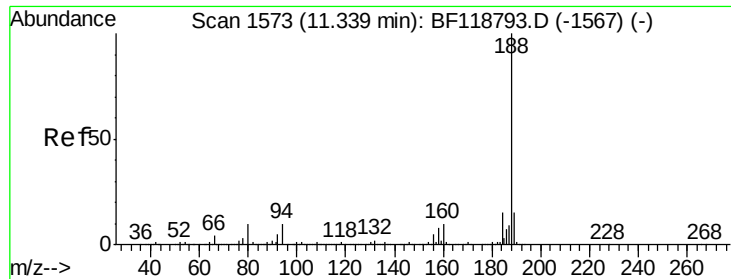
#57  
 2,4-Dinitrotoluene  
 Concen: 6.317 ng  
 RT: 9.85 min Scan# 1319  
 Delta R.T. -0.20 min  
 Lab File: BF118813.D  
 Acq: 4 Feb 2020 20:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 25.5  | 38.3# |
| 89      | 1.3   | 45.4  | 68.0# |
| 182     | 0.0   | 2.4   | 3.6#  |

Abundance Ion 165.00 (164.70 to 165.70): E



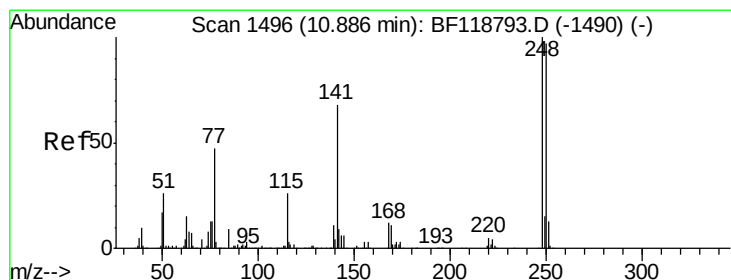
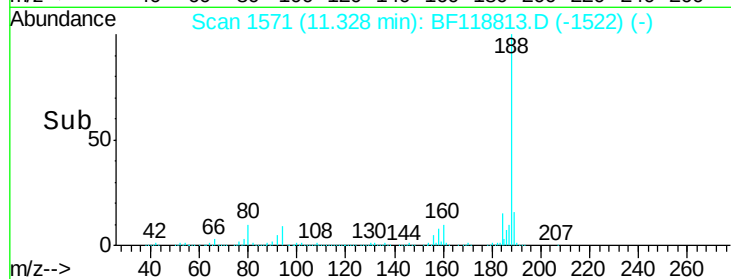
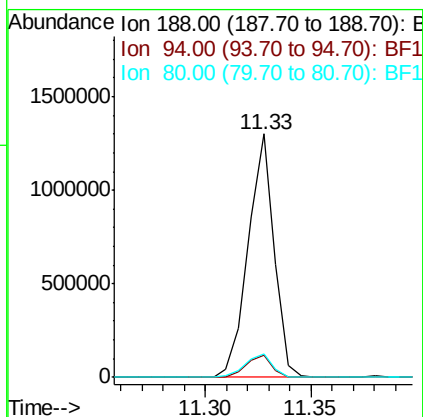
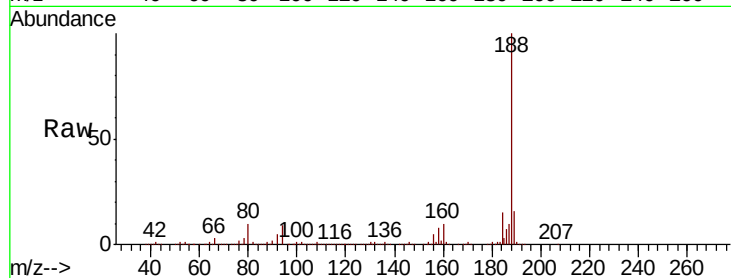




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BF118813.D  
Acq: 4 Feb 2020 20:44

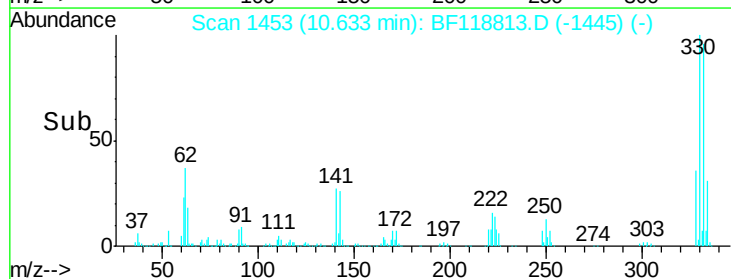
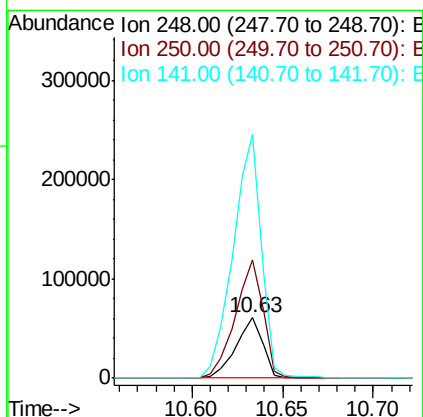
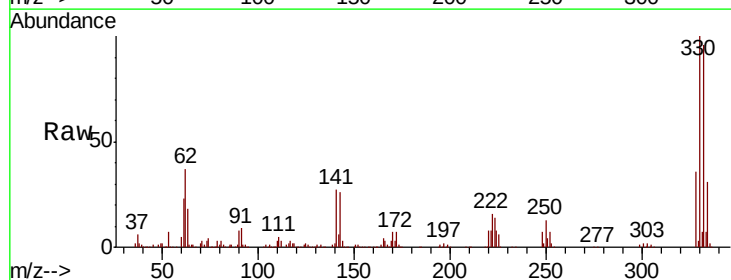
Instrument :  
BNA\_G  
ClientSampleId :

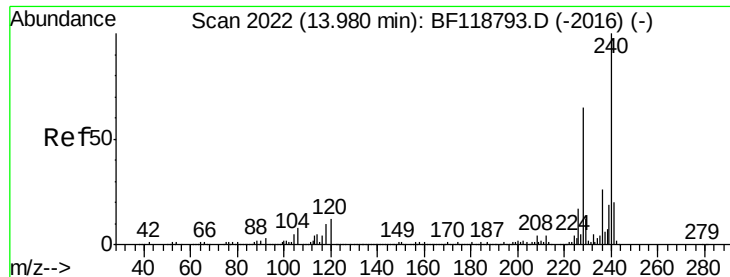
Tot Ion:188 Resp: 1111926  
Ion Ratio Lower Upper  
188 100  
94 9.0 7.9 11.9  
80 9.7 8.4 12.6



#67  
4-Bromophenyl-phenylether  
Concen: 4.770 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.25 min  
Lab File: BF118813.D  
Acq: 4 Feb 2020 20:44

Tgt Ion:248 Resp: 62743  
Ion Ratio Lower Upper  
248 100  
250 196.6 77.6 116.4#  
141 404.5 54.4 81.6#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.96 min Scan# 2019

Delta R.T. -0.02 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

Instrument :

BNA\_G

ClientSampled :

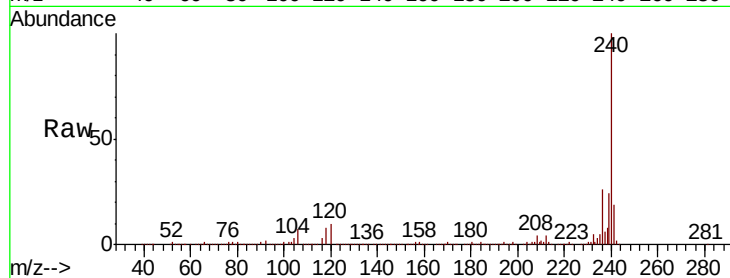
Tot Ion:240 Resp: 839038

Ion Ratio Lower Upper

240 100

120 9.6 9.4 14.0

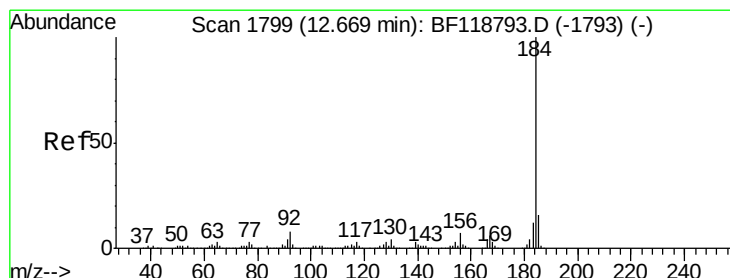
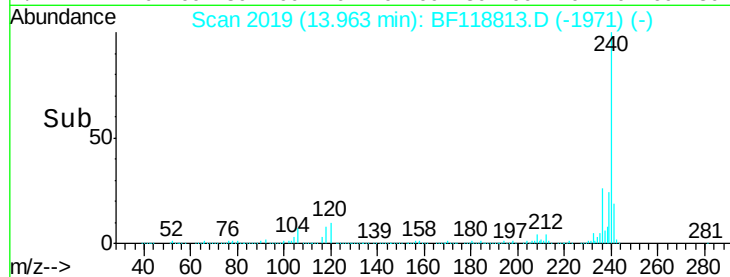
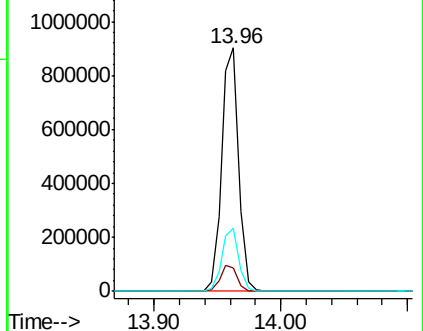
236 26.0 21.0 31.6



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

Benzidine

Concen: 2.095 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.25 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

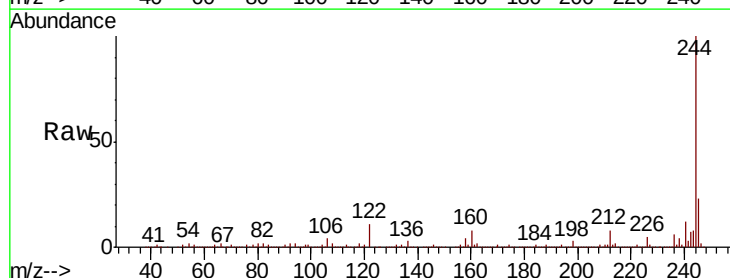
Tgt Ion:184 Resp: 53157

Ion Ratio Lower Upper

184 100

185 16.2 12.5 18.7

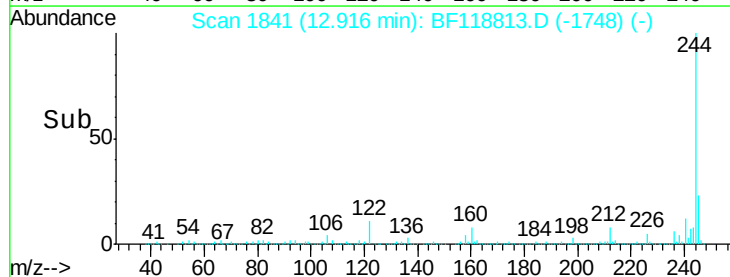
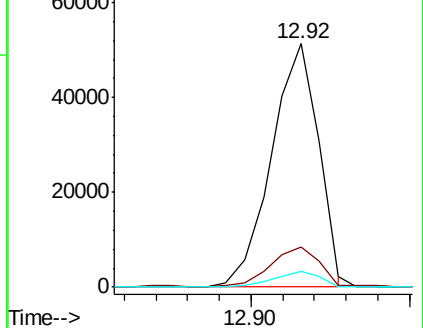
183 6.7 9.7 14.5#

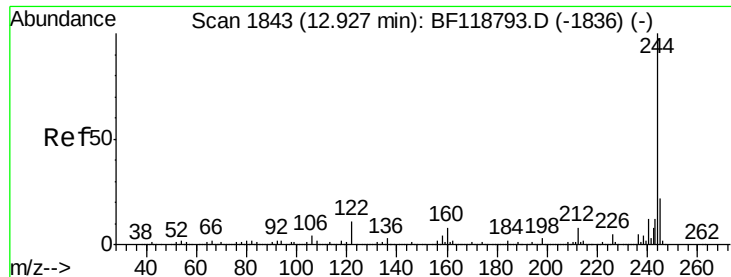


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#79

Terphenyl-d14

Concen: 96.195 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

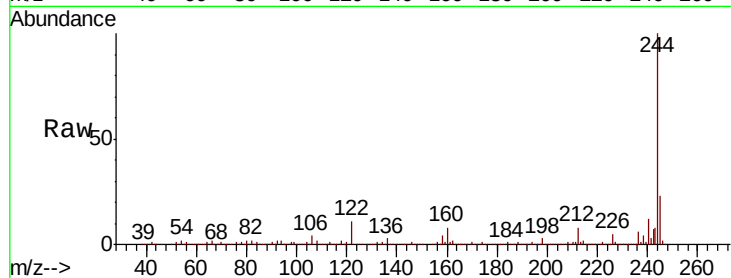
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:244 Resp: 3929404

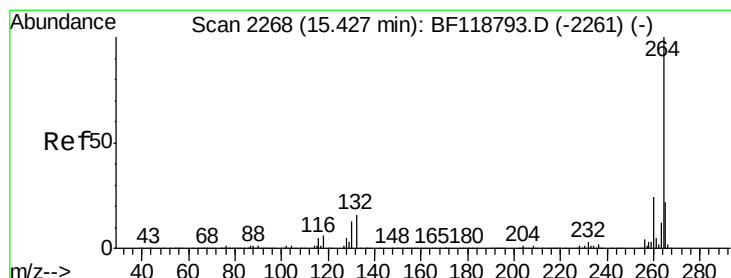
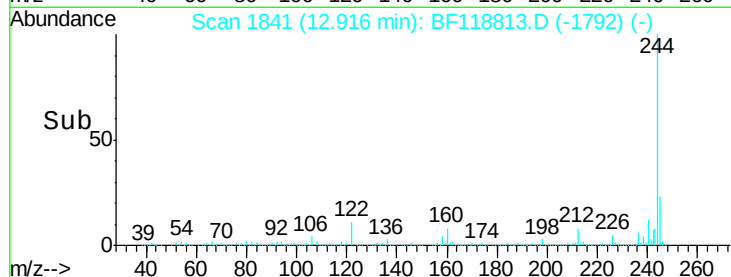
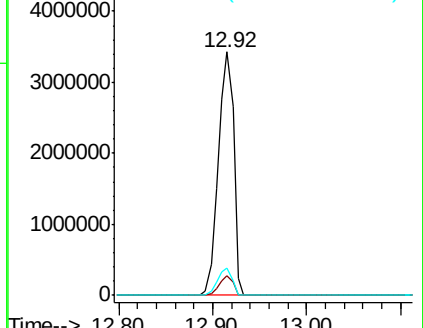
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 8.2   | 6.5   | 9.7   |
| 122 | 11.0  | 8.9   | 13.3  |



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



#87

Perylene-d12

Concen: 20.000 ng

RT: 15.40 min Scan# 2264

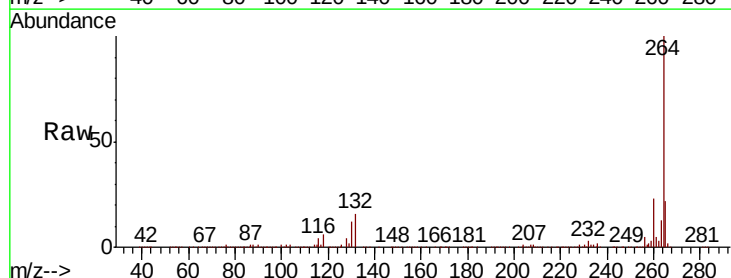
Delta R.T. -0.02 min

Lab File: BF118813.D

Acq: 4 Feb 2020 20:44

Tgt Ion:264 Resp: 772581

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.3  | 19.1  | 28.7  |
| 265 | 21.9  | 17.2  | 25.8  |



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

