

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061720\  
 Data File : BF120634.D  
 Acq On : 17 Jun 2020 16:00  
 Operator : JU/CG  
 Sample : L3024-04  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-25

Quant Time: Jun 17 17:06:22 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 11 11:28:22 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.80  | 152  | 131698   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.08  | 136  | 502888   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.83  | 164  | 263577   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.31 | 188  | 524205   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.94 | 240  | 481636   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 15.39 | 264  | 525986   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.40  | 112  | 643970   | 83.83 | ng    | -0.01    |
| 7) Phenol-d6                | 6.43  | 99   | 805546   | 84.20 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 504696   | 56.10 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.62 | 330  | 266121   | 86.84 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.15  | 172  | 1029215  | 59.74 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.90 | 244  | 1316617  | 60.38 | ng    | -0.01    |

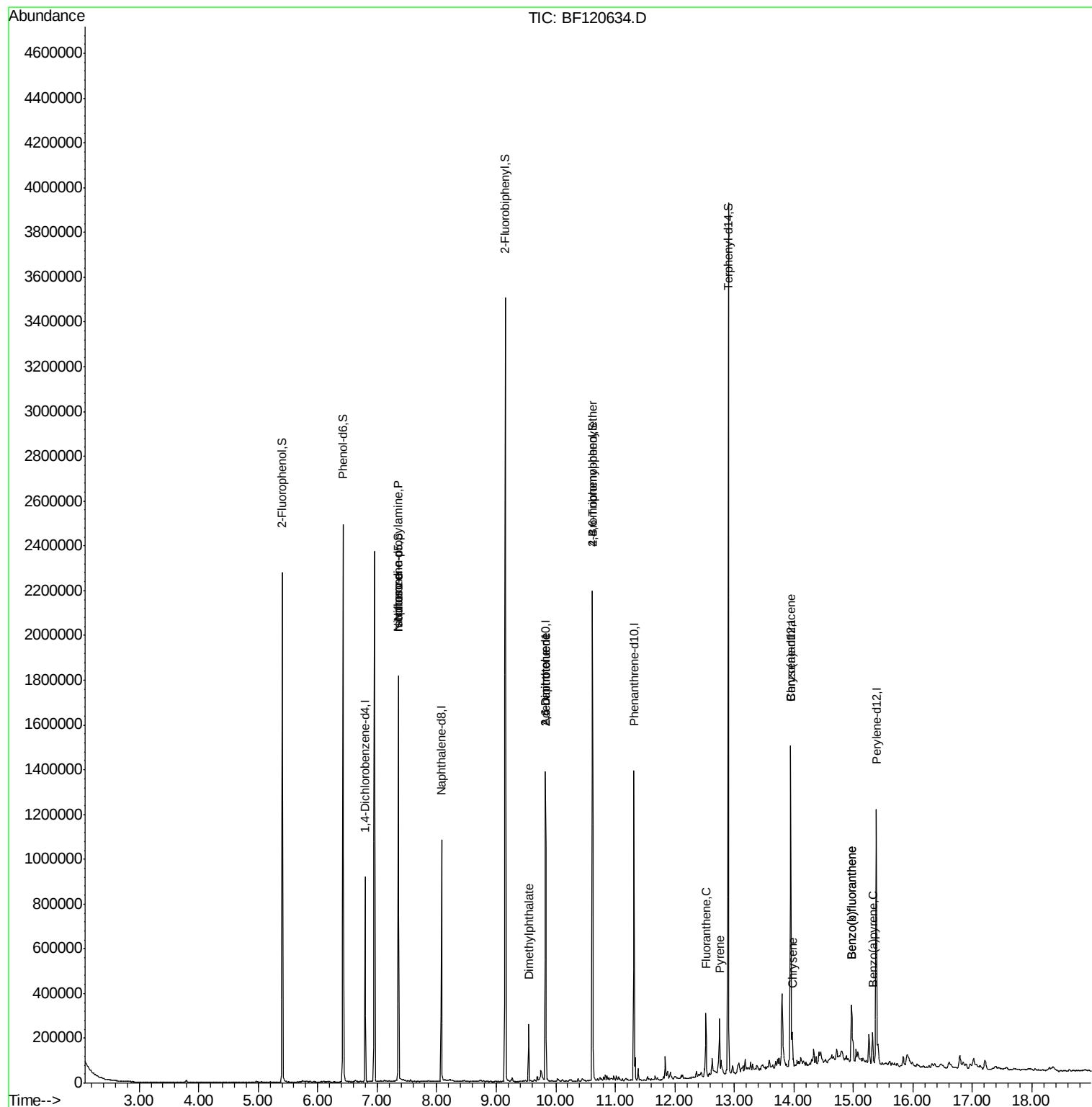
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 66331    | 11.952 | ng    | # 78   |
| 25) Isophorone                 | 7.36  | 82   | 501949   | 28.641 | ng    | # 62   |
| 50) Dimethylphthalate          | 9.55  | 163  | 88603    | 4.668  | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.83  | 165  | 33268    | 7.733  | ng    | # 27   |
| 57) 2,4-Dinitrotoluene         | 9.83  | 165  | 33268    | 5.828  | ng    | # 29   |
| 67) 4-Bromophenyl-phenylether  | 10.62 | 248  | 15368    | 2.583  | ng    | # 1    |
| 75) Fluoranthene               | 12.52 | 202  | 98704    | 3.313  | ng    | 98     |
| 78) Pyrene                     | 12.75 | 202  | 93974    | 2.754  | ng    | 99     |
| 81) Benzo(a)anthracene         | 13.94 | 228  | 76682    | 2.650  | ng    | 96     |
| 83) Chrysene                   | 13.97 | 228  | 70011    | 2.359  | ng    | 98     |
| 88) Benzo(b)fluoranthene       | 14.97 | 252  | 168512   | 5.378  | ng    | 100    |
| 89) Benzo(k)fluoranthene       | 14.97 | 252  | 168512   | 6.078  | ng    | 100    |
| 90) Benzo(a)pyrene             | 15.32 | 252  | 65234    | 2.326  | ng    | 99     |

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061720\  
Data File : BF120634.D  
Acq On : 17 Jun 2020 16:00  
Operator : JU/CG  
Sample : L3024-04  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
RO-25

Quant Time: Jun 17 17:06:22 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF061020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 11 11:28:22 2020  
Response via : Initial Calibration



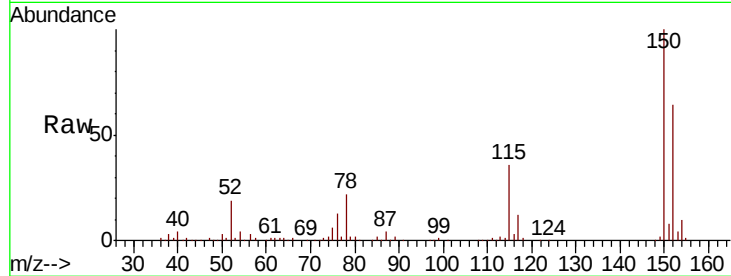


#1

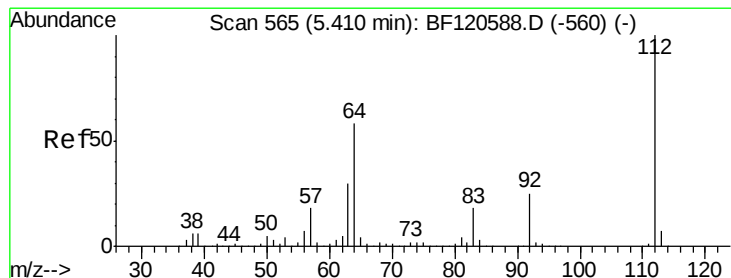
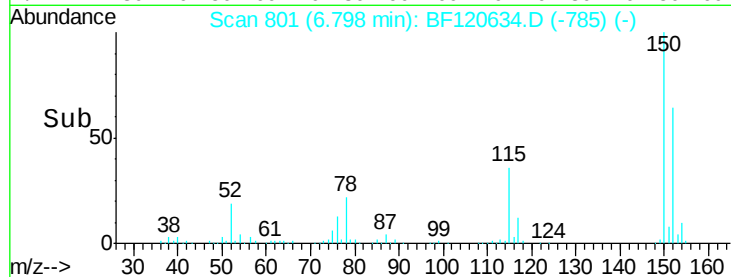
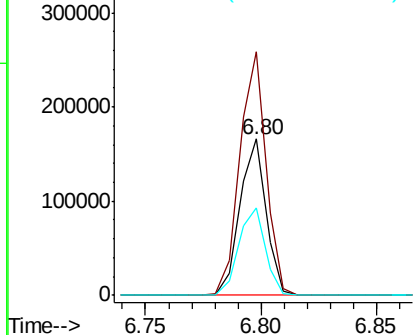
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 801  
Delta R.T. -0.01 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

Instrument :  
BNA\_F  
ClientSampleId :  
RO-25

Tot Ion:152 Resp: 131698  
Ion Ratio Lower Upper  
152 100  
150 155.7 123.2 184.8  
115 56.0 43.9 65.9



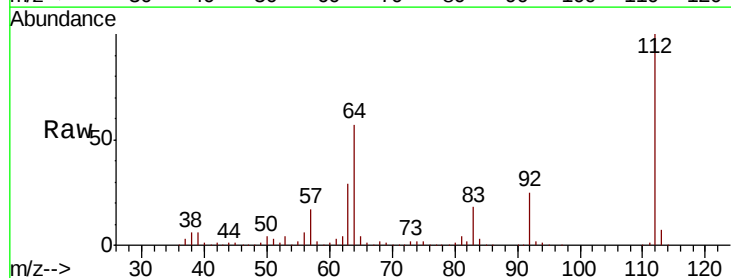
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



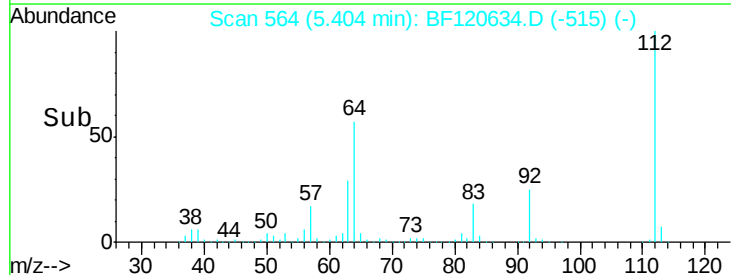
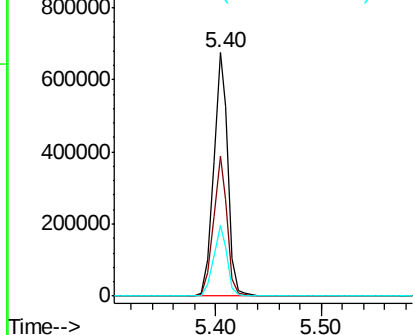
#5

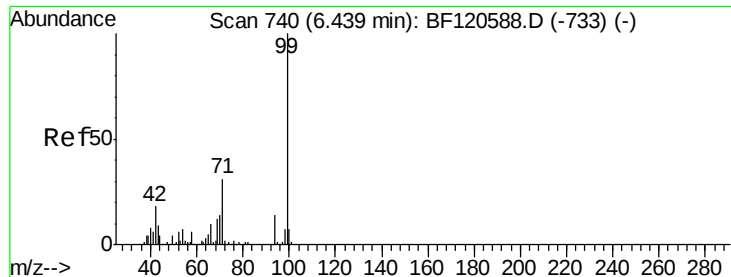
2-Fluorophenol  
Concen: 83.832 ng  
RT: 5.40 min Scan# 564  
Delta R.T. -0.01 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

Tgt Ion:112 Resp: 643970  
Ion Ratio Lower Upper  
112 100  
64 57.4 46.1 69.1  
63 29.1 23.7 35.5



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: 84.196 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.01 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Instrument :

BNA\_F

ClientSampled :

RO-25

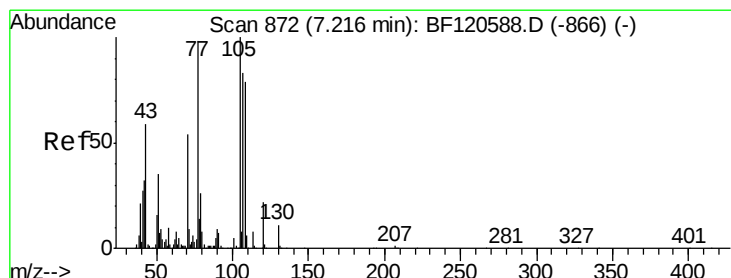
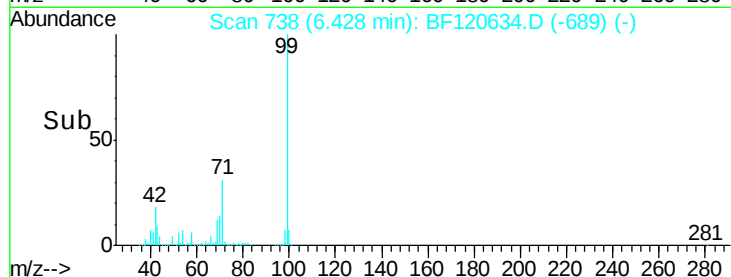
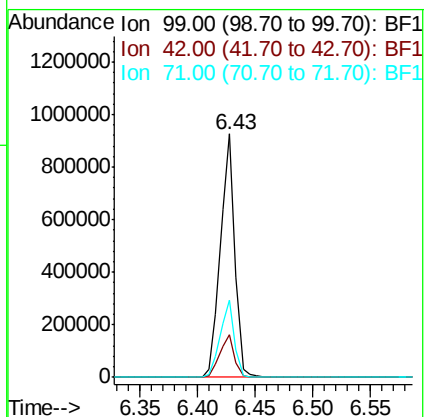
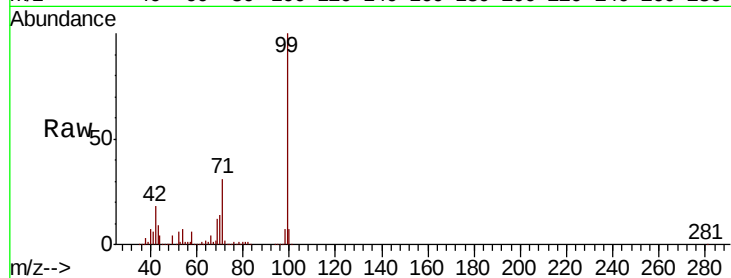
Tot Ion: 99 Resp: 805546

Ion Ratio Lower Upper

99 100

42 17.7 14.0 21.0

71 31.5 24.9 37.3



#19

n-Nitroso-di-n-propylamine

Concen: 11.952 ng

RT: 7.36 min Scan# 896

Delta R.T. 0.14 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Tgt Ion: 70 Resp: 66331

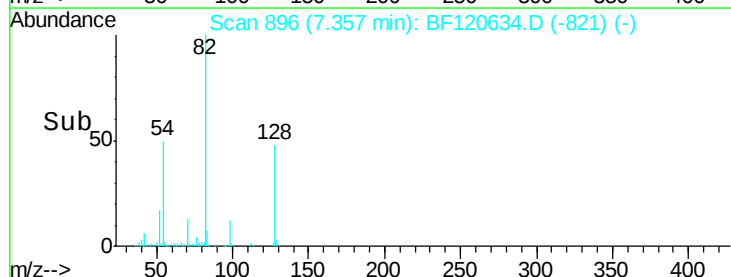
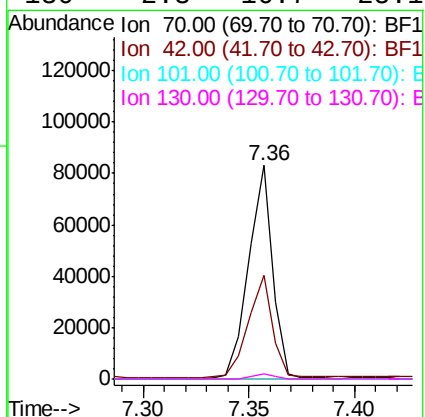
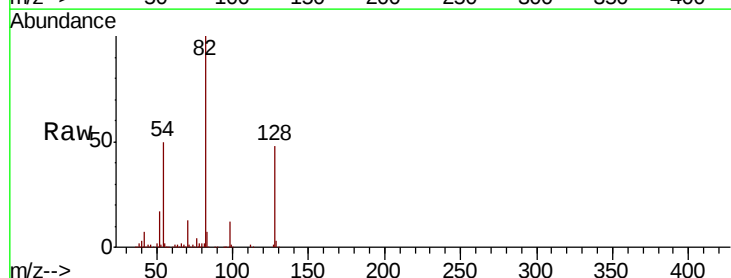
Ion Ratio Lower Upper

70 100

42 48.7 47.7 71.5

101 0.0 7.6 11.4#

130 2.3 16.7 25.1#

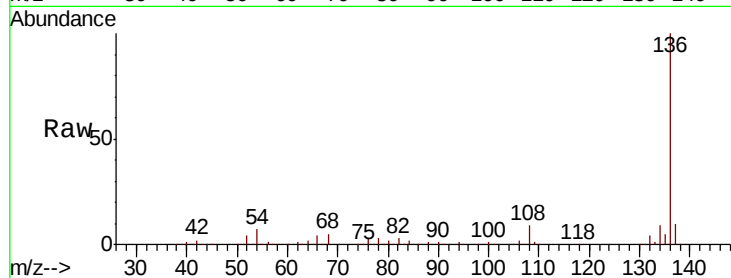




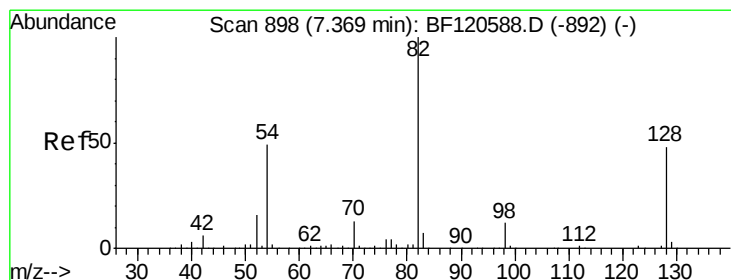
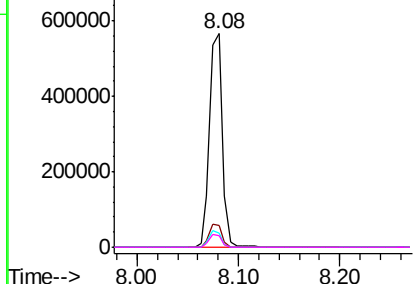
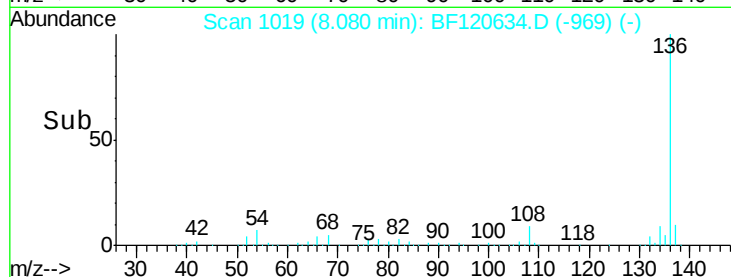
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.08 min Scan# 1019  
Delta R.T. -0.01 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

Instrument :  
BNA\_F  
ClientSampleId :  
RO-25

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 502888      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.5  | 8.6 13.0    |
| 54          | 6.7   | 5.8 8.6     |
| 68          | 5.3   | 4.4 6.6     |

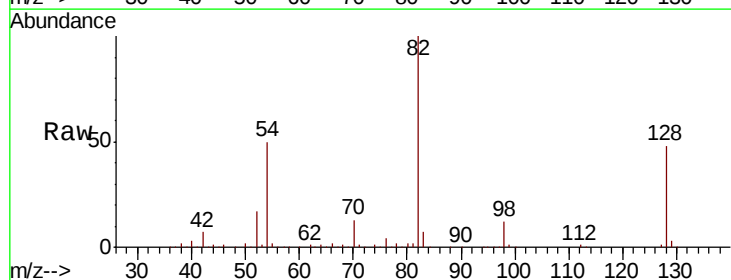


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

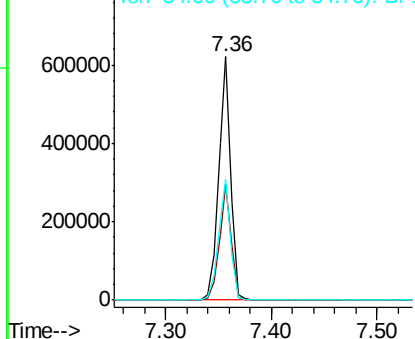
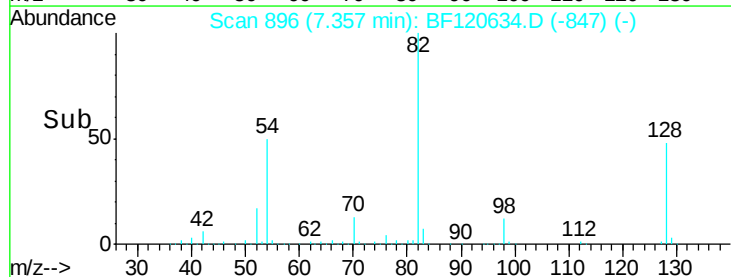


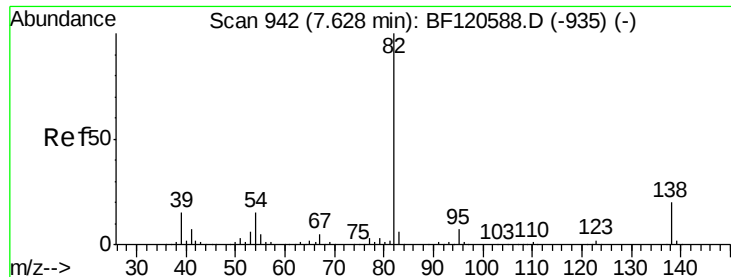
#23  
Nitrobenzene-d5  
Concen: 56.098 ng  
RT: 7.36 min Scan# 896  
Delta R.T. -0.01 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 504696      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 47.5  | 38.0 57.0   |
| 54          | 49.7  | 38.8 58.2   |



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





#25

Isophorone

Concen: 28.641 ng

RT: 7.36 min Scan# 896

Delta R.T. -0.27 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Instrument :

BNA\_F

ClientSampleId :

RO-25

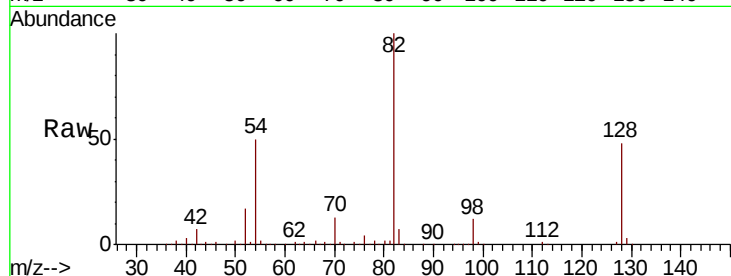
Tot Ion: 82 Resp: 501949

Ion Ratio Lower Upper

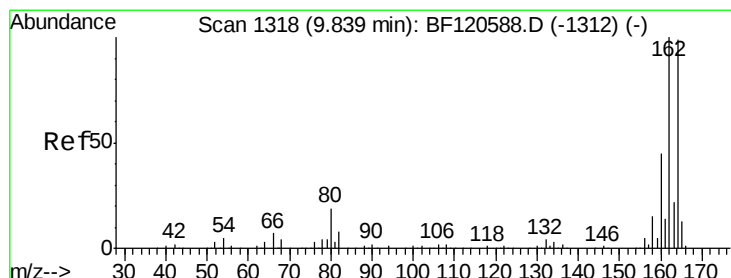
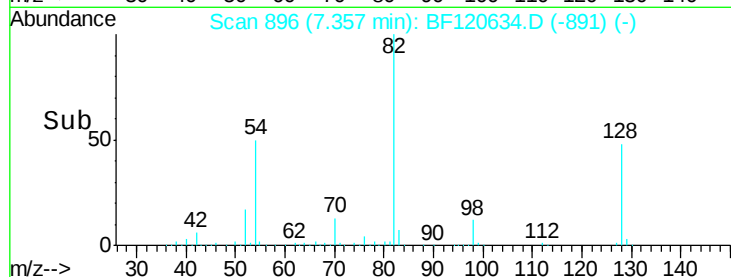
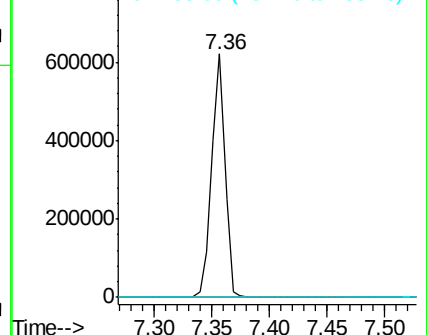
82 100

95 0.1 5.7 8.5#

138 0.0 16.2 24.4#



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: 9.83 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

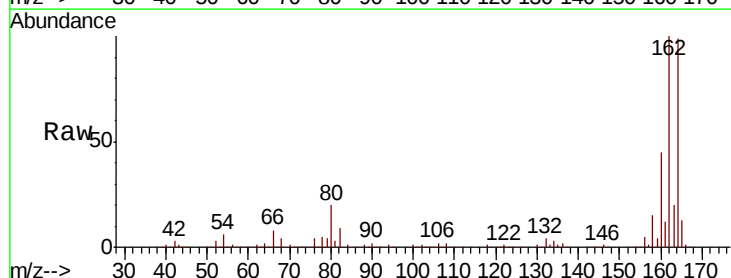
Tgt Ion:164 Resp: 263577

Ion Ratio Lower Upper

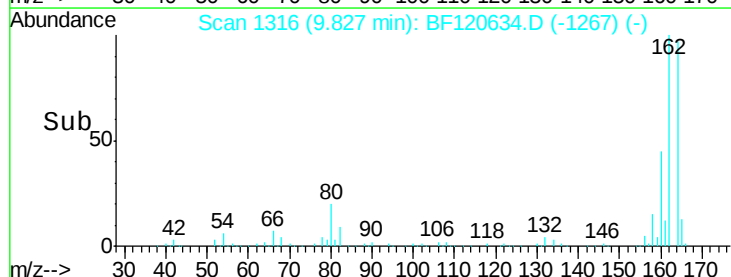
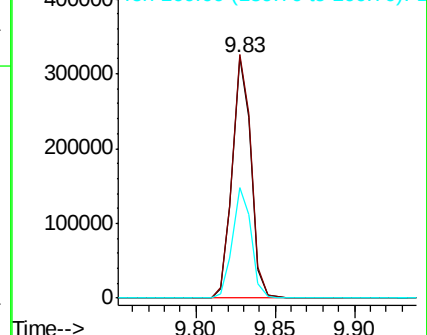
164 100

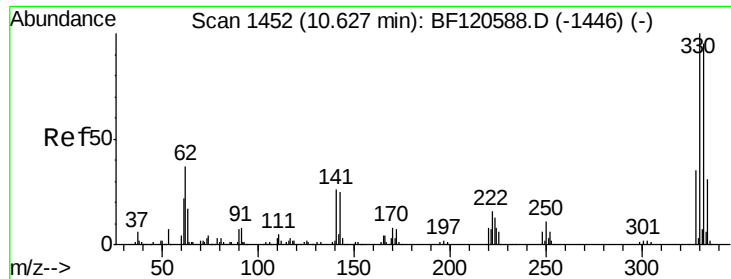
162 101.1 80.6 120.8

160 45.7 36.2 54.2



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

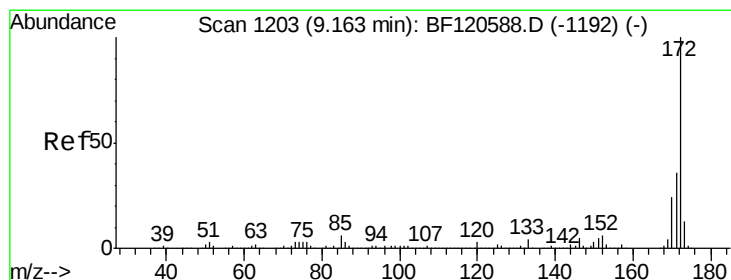
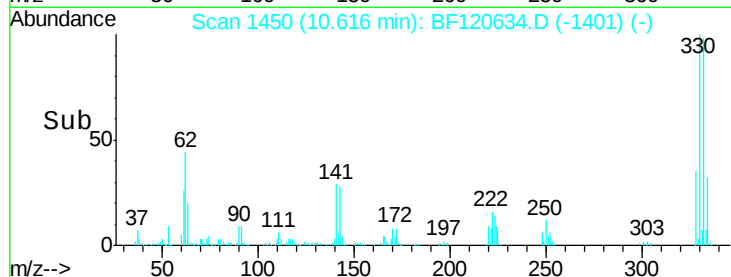
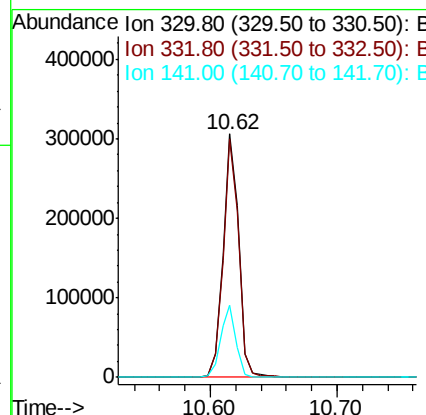
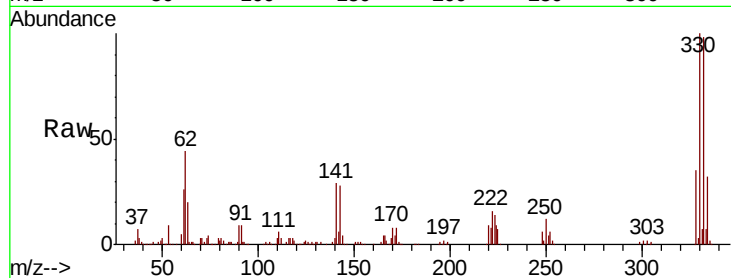




#42  
 2,4,6-Tribromophenol  
 Concen: 86.841 ng  
 RT: 10.62 min Scan# 1450  
 Delta R.T. -0.01 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

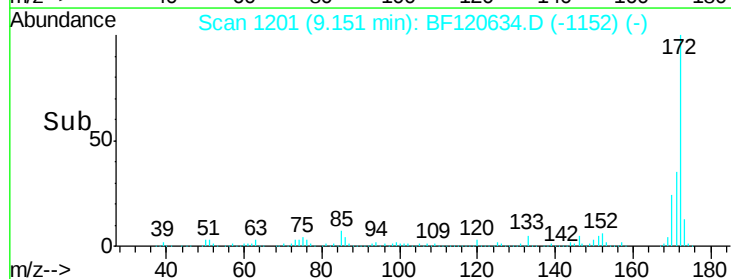
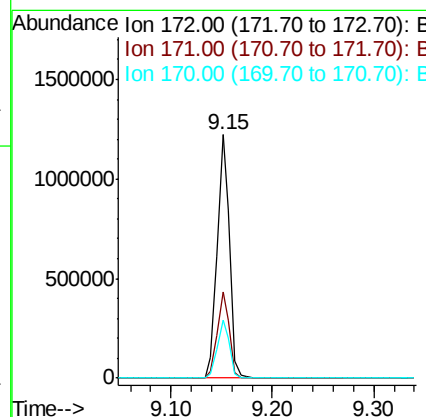
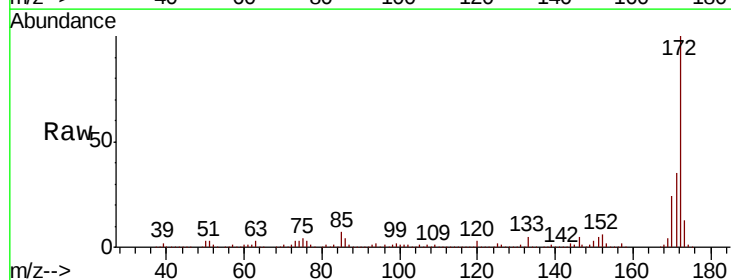
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-25

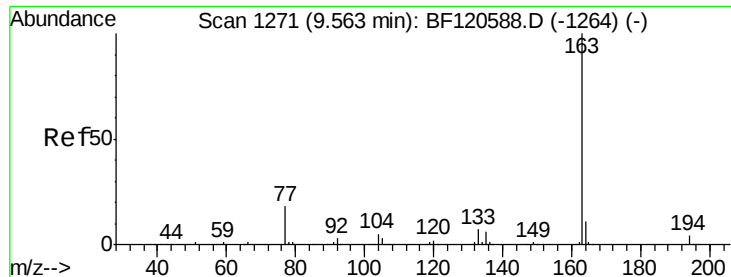
Tot Ion:330 Resp: 266121  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 76.8 115.2  
 141 29.2 23.2 34.8



#45  
 2-Fluorobiphenyl  
 Concen: 59.743 ng  
 RT: 9.15 min Scan# 1201  
 Delta R.T. -0.01 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

Tgt Ion:172 Resp: 1029215  
 Ion Ratio Lower Upper  
 172 100  
 171 35.4 29.0 43.4  
 170 23.9 19.4 29.2





#50

Dimethylphthalate

Concen: 4.668 ng

RT: 9.55 min Scan# 1268

Delta R.T. -0.02 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Instrument :

BNA\_F

ClientSampleId :

RO-25

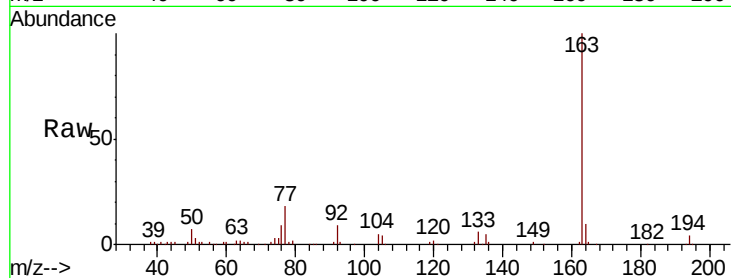
Tot Ion:163 Resp: 88603

Ion Ratio Lower Upper

163 100

194 3.5 3.1 4.7

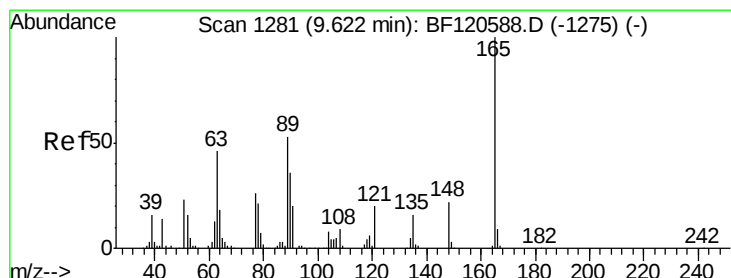
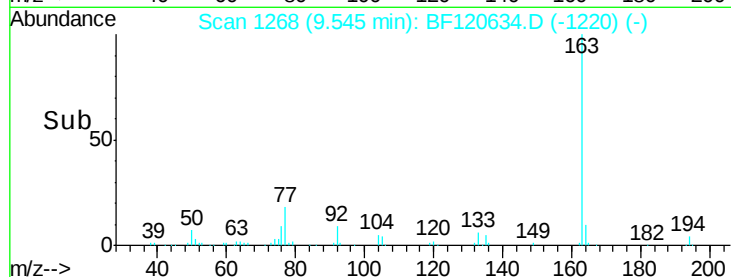
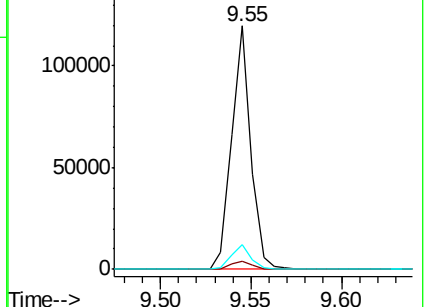
164 10.2 8.5 12.7



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



#51

2,6-Dinitrotoluene

Concen: 7.733 ng

RT: 9.83 min Scan# 1316

Delta R.T. 0.21 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

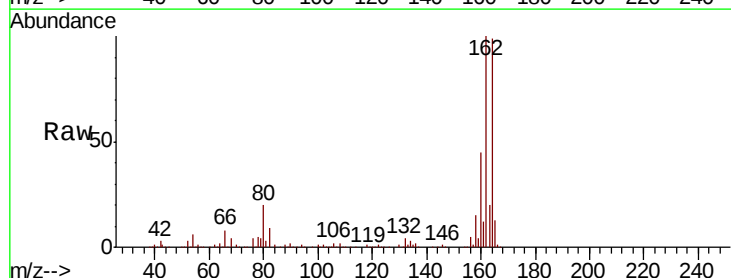
Tgt Ion:165 Resp: 33268

Ion Ratio Lower Upper

165 100

63 1.1 41.7 62.5#

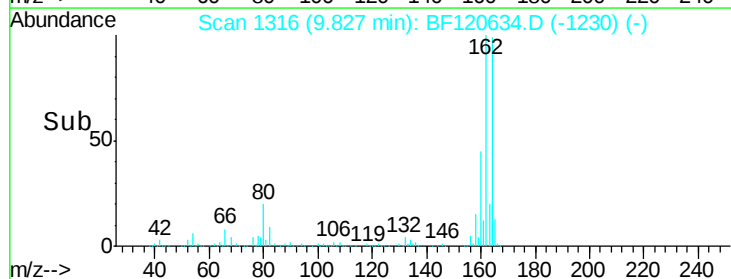
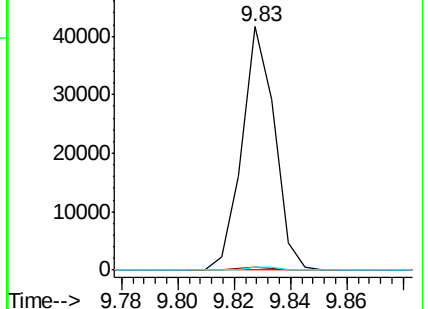
89 1.2 42.6 64.0#

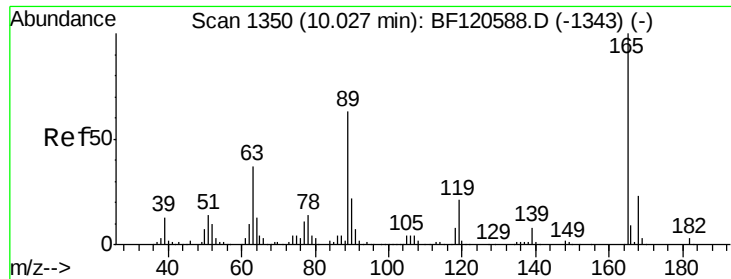


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

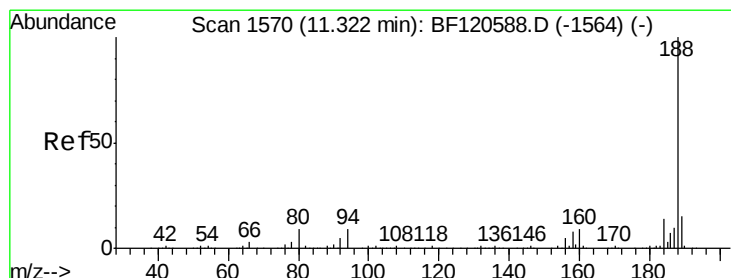
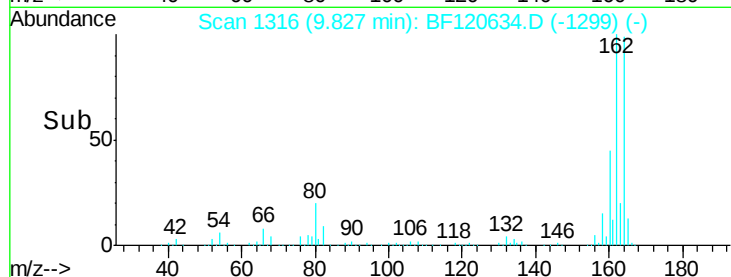
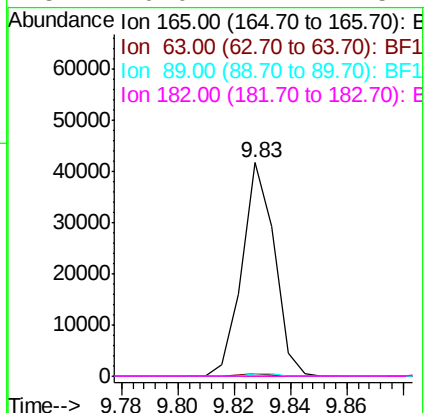
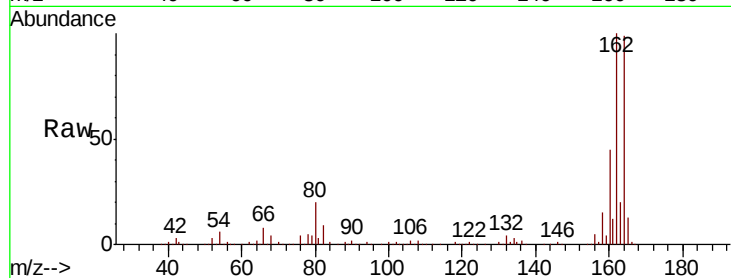




#57  
 2,4-Dinitrotoluene  
 Concen: 5.828 ng  
 RT: 9.83 min Scan# 1316  
 Delta R.T. -0.20 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

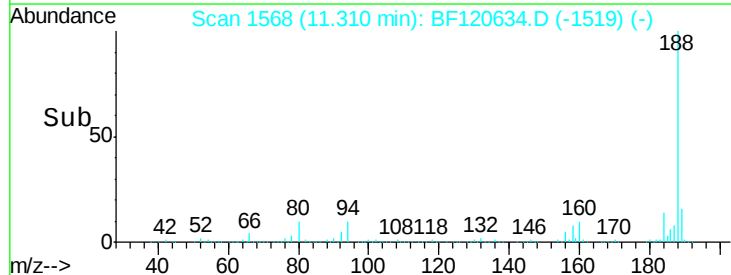
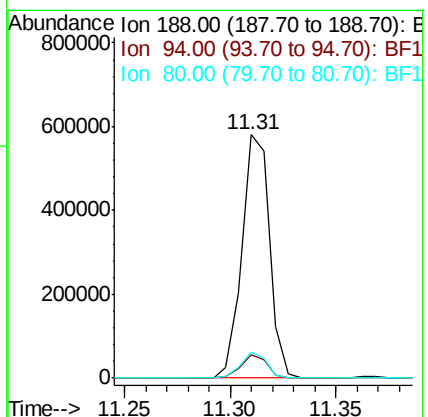
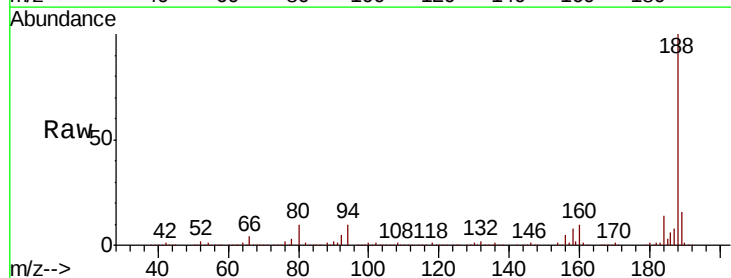
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-25

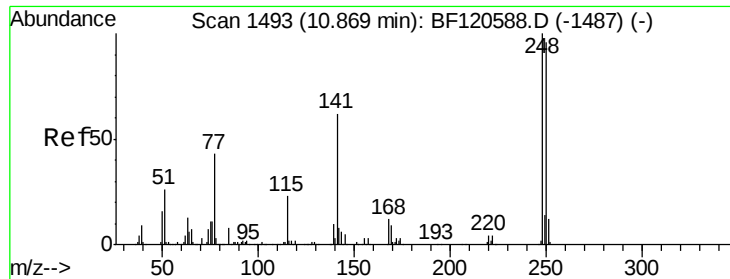
|             |       |            |
|-------------|-------|------------|
| Tot Ion:165 | Resp: | 33268      |
| Ion Ratio   | Lower | Upper      |
| 165         | 100   |            |
| 63          | 1.1   | 29.8 44.8# |
| 89          | 1.2   | 50.4 75.6# |
| 182         | 0.0   | 2.1 3.1#   |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.31 min Scan# 1568  
 Delta R.T. -0.01 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:188 | Resp: | 524205   |
| Ion Ratio   | Lower | Upper    |
| 188         | 100   |          |
| 94          | 9.7   | 7.2 10.8 |
| 80          | 10.5  | 7.4 11.2 |

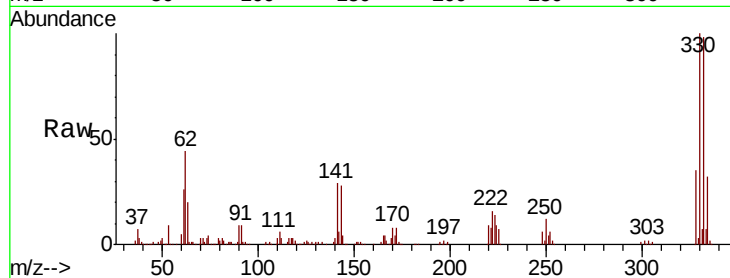




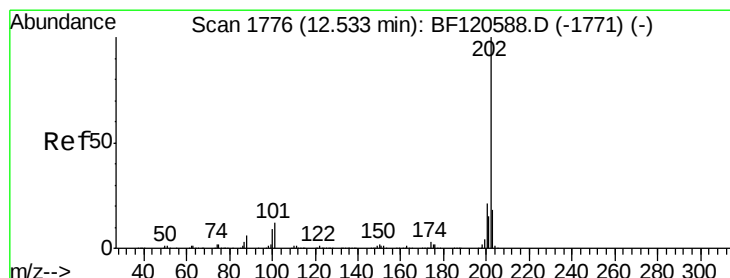
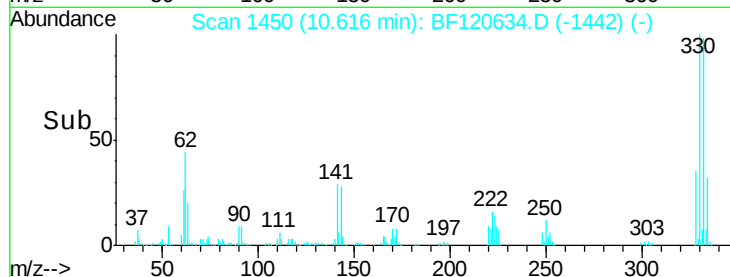
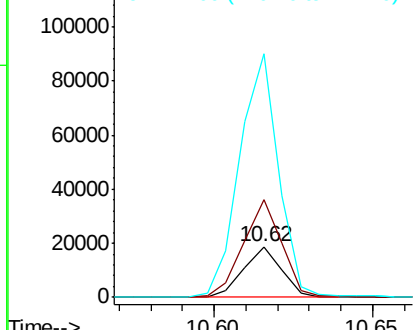
#67  
4-Bromophenyl-phenylether  
Concen: 2.583 ng  
RT: 10.62 min Scan# 1450  
Delta R.T. -0.25 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

Instrument :  
BNA\_F  
ClientSampleId :  
RO-25

Tot Ion:248 Resp: 15368  
Ion Ratio Lower Upper  
248 100  
250 191.7 76.7 115.1#  
141 479.6 49.4 74.0#

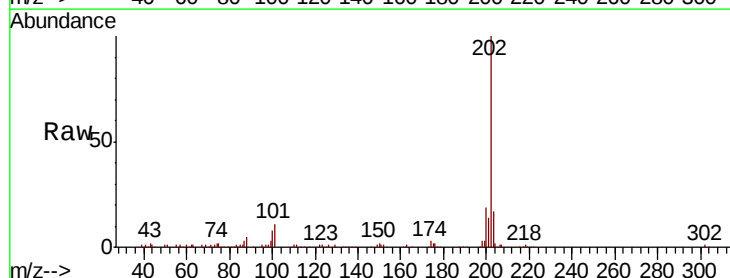


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

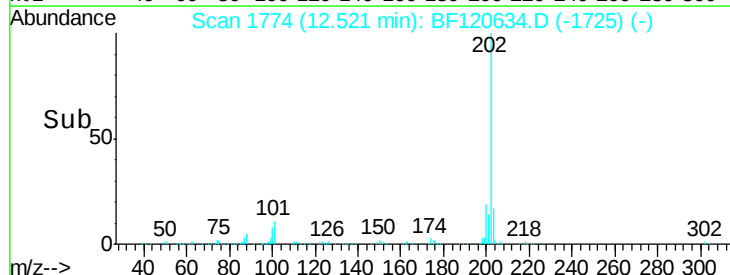
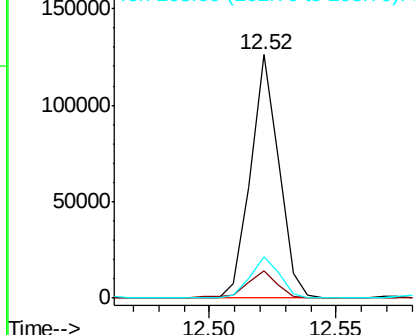


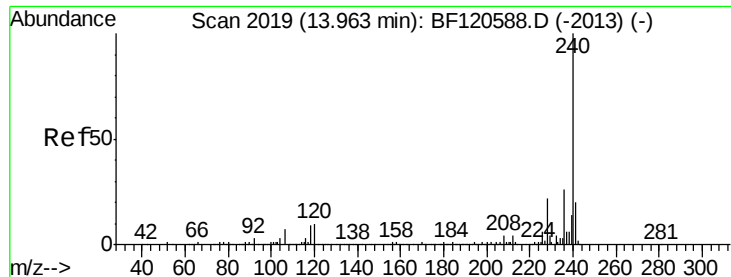
#75  
Fluoranthene  
Concen: 3.313 ng  
RT: 12.52 min Scan# 1774  
Delta R.T. -0.01 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

Tgt Ion:202 Resp: 98704  
Ion Ratio Lower Upper  
202 100  
101 11.0 0.0 32.0  
203 17.2 0.0 38.3



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

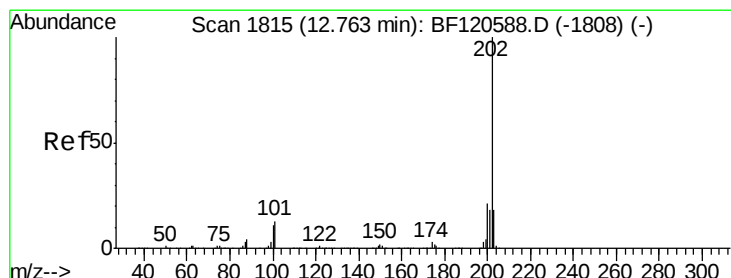
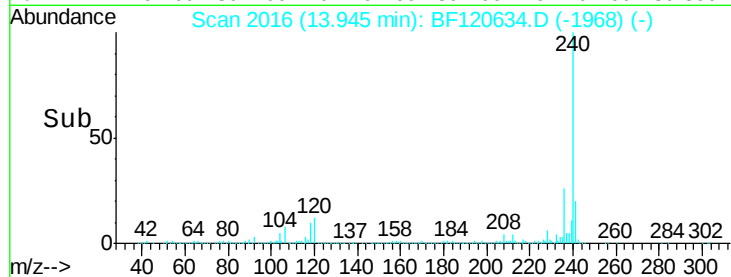
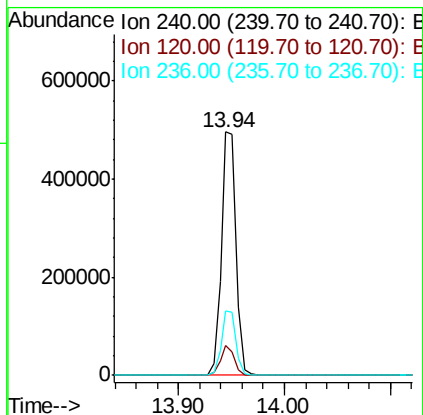
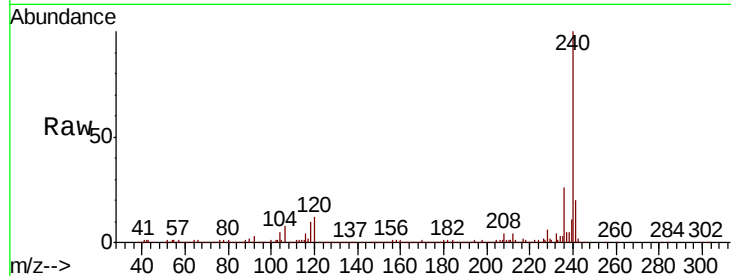




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.94 min Scan# 2016  
Delta R.T. -0.02 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

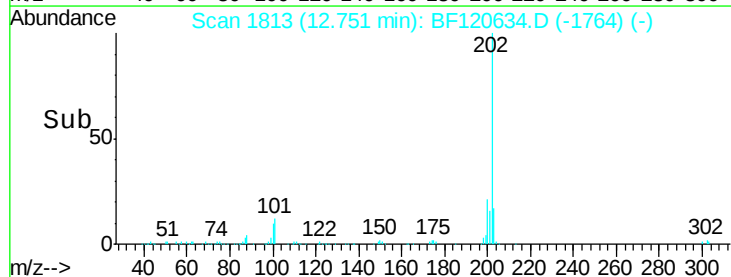
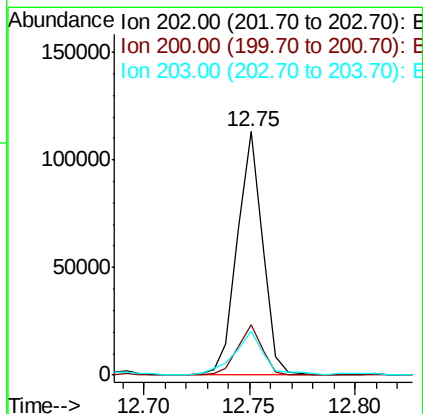
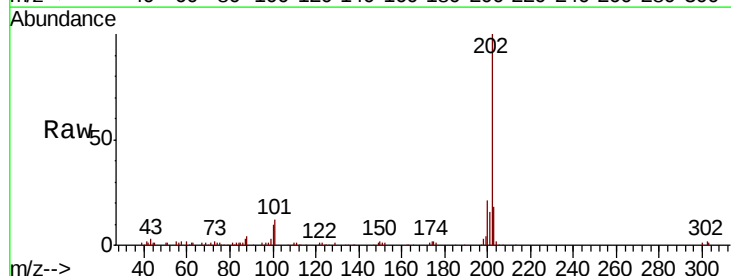
Instrument :  
BNA\_F  
ClientSampleId :  
RO-25

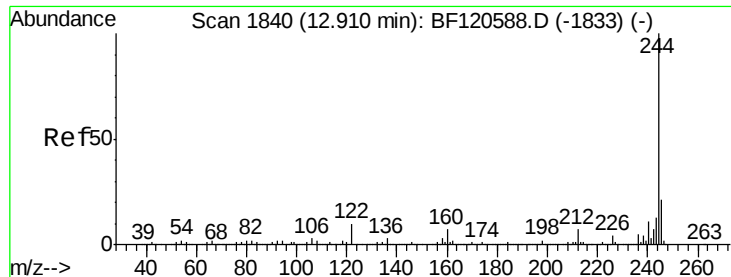
Tot Ion:240 Resp: 481636  
Ion Ratio Lower Upper  
240 100  
120 12.4 8.3 12.5  
236 26.4 21.0 31.4



#78  
Pyrene  
Concen: 2.754 ng  
RT: 12.75 min Scan# 1813  
Delta R.T. -0.01 min  
Lab File: BF120634.D  
Acq: 17 Jun 2020 16:00

Tgt Ion:202 Resp: 93974  
Ion Ratio Lower Upper  
202 100  
200 20.5 16.8 25.2  
203 17.9 14.3 21.5





#79

Terphenyl-d14

Concen: 60.383 ng

RT: 12.90 min Scan# 1838

Delta R.T. -0.01 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Instrument :

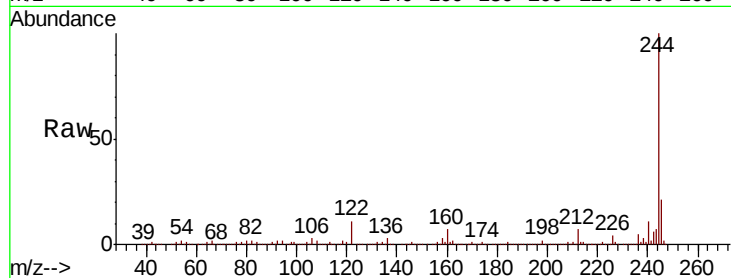
BNA\_F

ClientSampleId :

RO-25

Tot Ion:244 Resp: 1316617

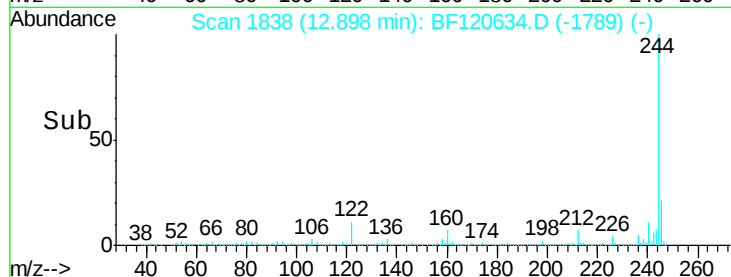
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 6.7   | 5.7   | 8.5   |
| 122 | 11.1  | 8.3   | 12.5  |



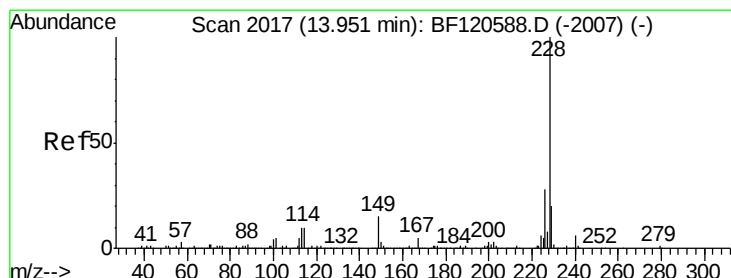
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->



#81

Benzo(a)anthracene

Concen: 2.650 ng

RT: 13.94 min Scan# 2015

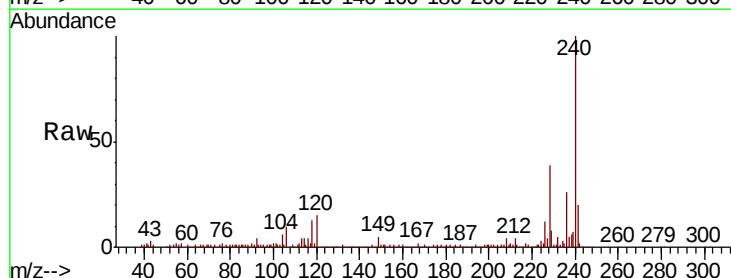
Delta R.T. -0.01 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Tgt Ion:228 Resp: 76682

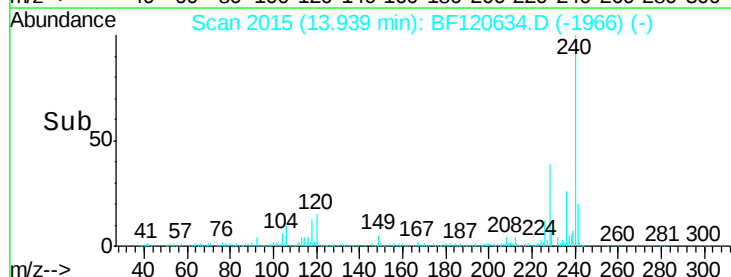
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 31.4  | 22.5  | 33.7  |
| 229 | 19.7  | 16.1  | 24.1  |



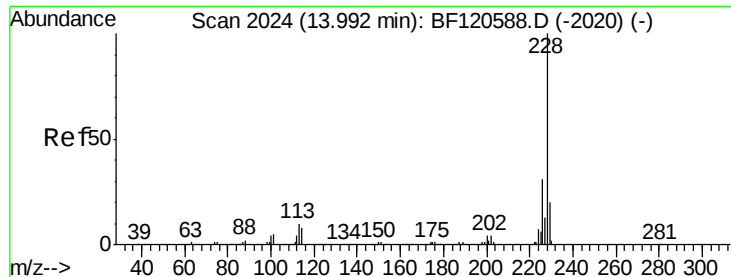
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



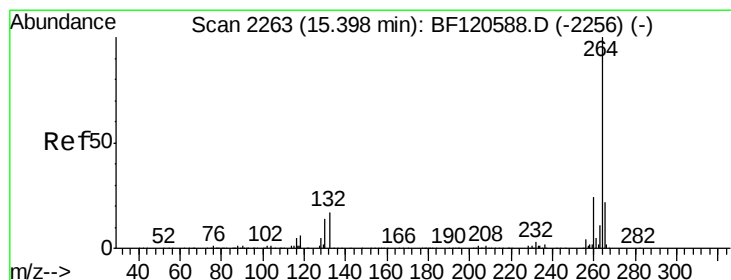
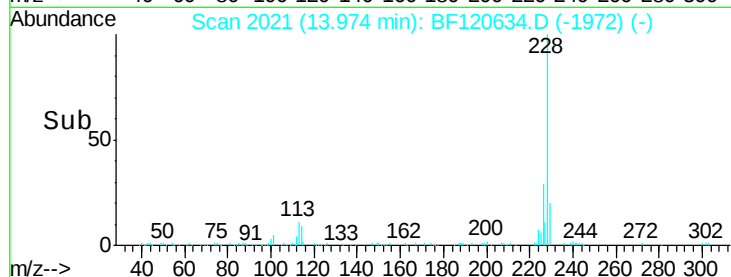
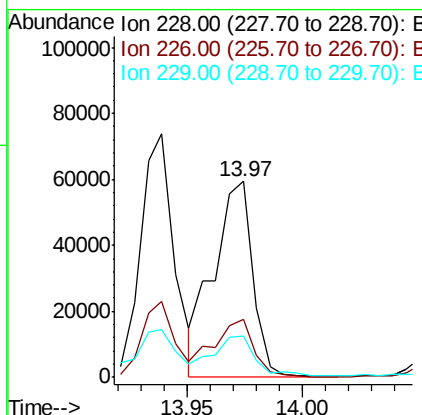
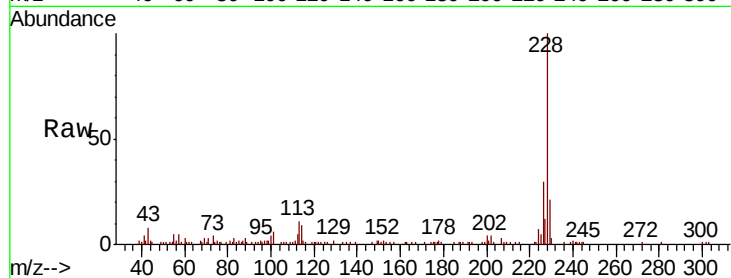
Time-->



#83  
 Chrysene  
 Concen: 2.359 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.01 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

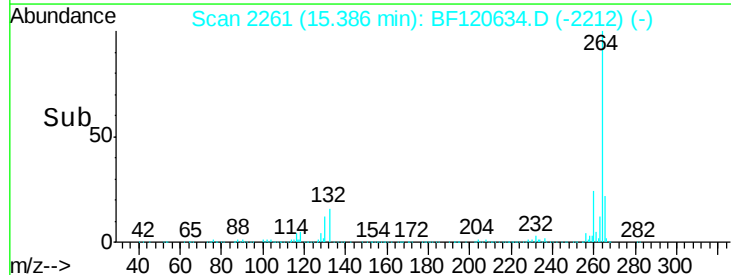
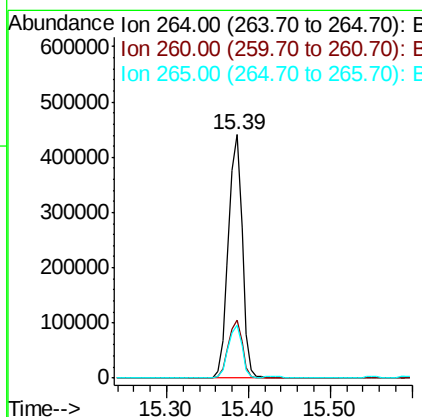
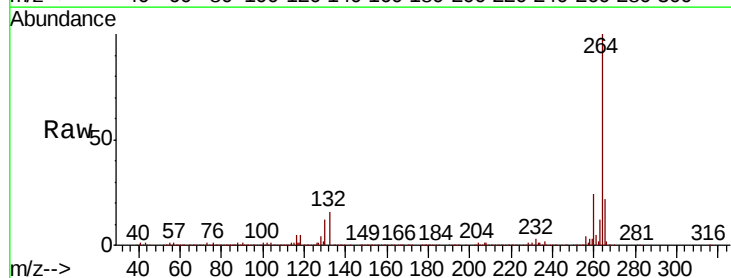
Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-25

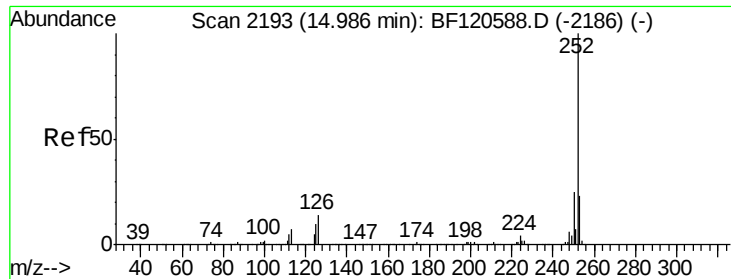
Tot Ion:228 Resp: 70011  
 Ion Ratio Lower Upper  
 228 100  
 226 29.8 24.9 37.3  
 229 21.2 16.1 24.1



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.39 min Scan# 2261  
 Delta R.T. -0.01 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

Tgt Ion:264 Resp: 525986  
 Ion Ratio Lower Upper  
 264 100  
 260 23.6 19.3 28.9  
 265 21.6 17.8 26.8





#88

Benzo(b)fluoranthene

Concen: 5.378 ng

RT: 14.97 min Scan# 2190

Delta R.T. -0.02 min

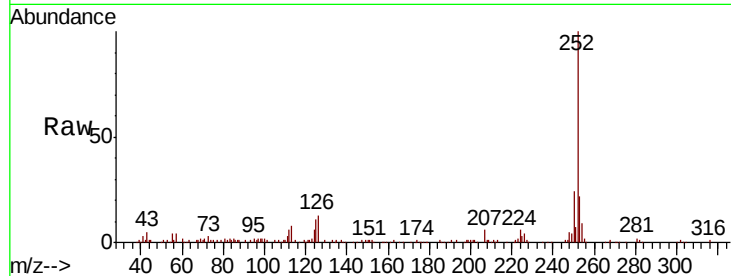
Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Instrument :  
BNA\_F  
ClientSampleId :  
RO-25

Tot Ion:252 Resp: 168512

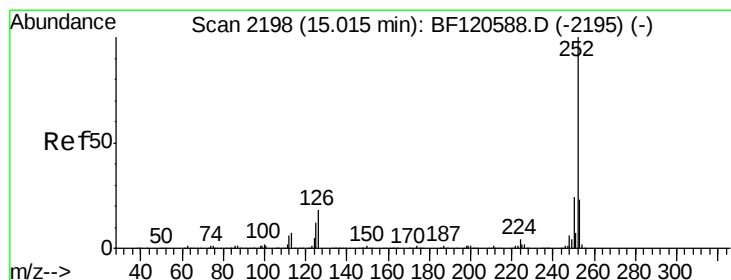
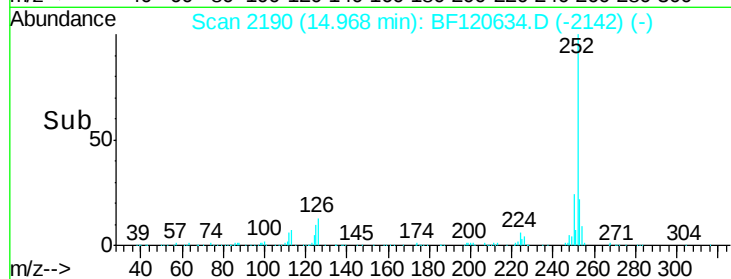
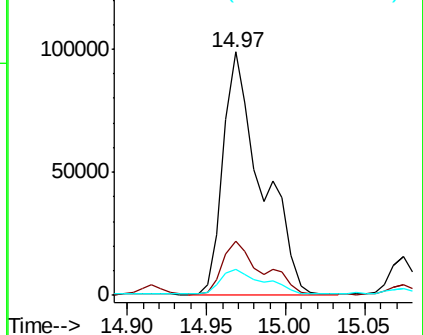
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.5  | 18.1  | 27.1  |
| 125 | 10.6  | 8.3   | 12.5  |



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(k)fluoranthene

Concen: 6.078 ng

RT: 14.97 min Scan# 2190

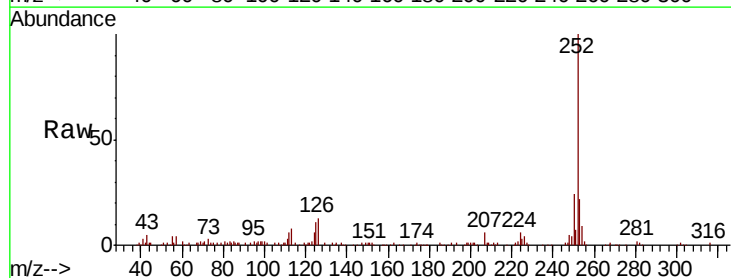
Delta R.T. -0.05 min

Lab File: BF120634.D

Acq: 17 Jun 2020 16:00

Tgt Ion:252 Resp: 168512

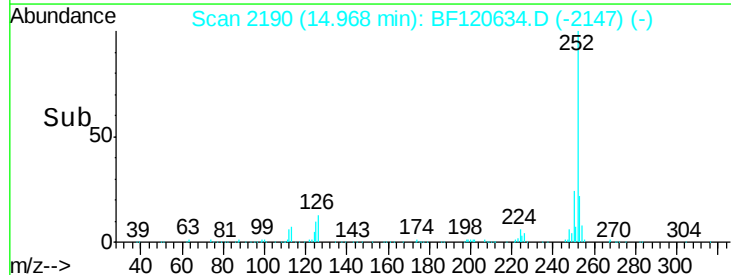
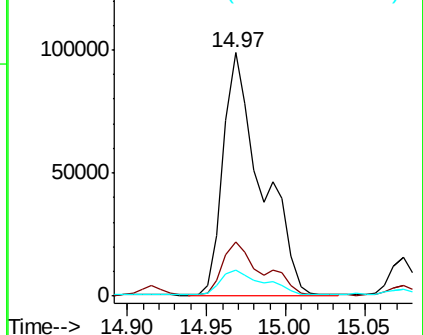
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.5  | 18.0  | 27.0  |
| 125 | 10.6  | 8.3   | 12.5  |

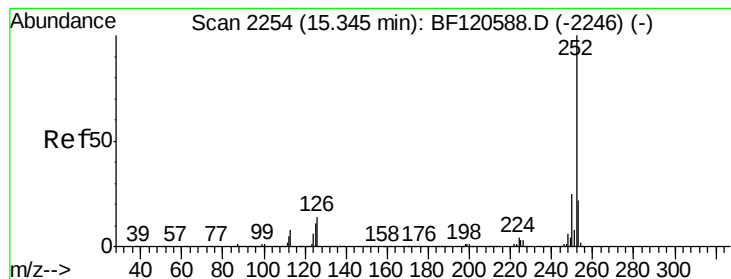


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90  
 Benzo(a)pyrene  
 Concen: 2.326 ng  
 RT: 15.32 min Scan# 2250  
 Delta R.T. -0.02 min  
 Lab File: BF120634.D  
 Acq: 17 Jun 2020 16:00

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RO-25

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.0  | 17.8  | 26.8  |
| 125     | 10.8  | 8.6   | 12.8  |

