

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030719\  
 Data File : BF112932.D  
 Acq On : 7 Mar 2019 20:12  
 Operator : JU/SJ  
 Sample : K1760-07  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Z2-9

Quant Time: Mar 08 00:21:23 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Mar 01 15:40:43 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.73  | 152  | 191283   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8        | 8.01  | 136  | 745618   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.76  | 164  | 363413   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10      | 11.23 | 188  | 755352   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 13.86 | 240  | 543361   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 15.26 | 264  | 553381   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.34  | 112  | 940848   | 76.51  | ng    | 0.00     |
| 7) Phenol-d6                | 6.36  | 99   | 1229990  | 79.63  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 739589   | 59.35  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.55 | 330  | 390392   | 101.19 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 1414551  | 59.60  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.82 | 244  | 1406775  | 50.19  | ng    | -0.01    |

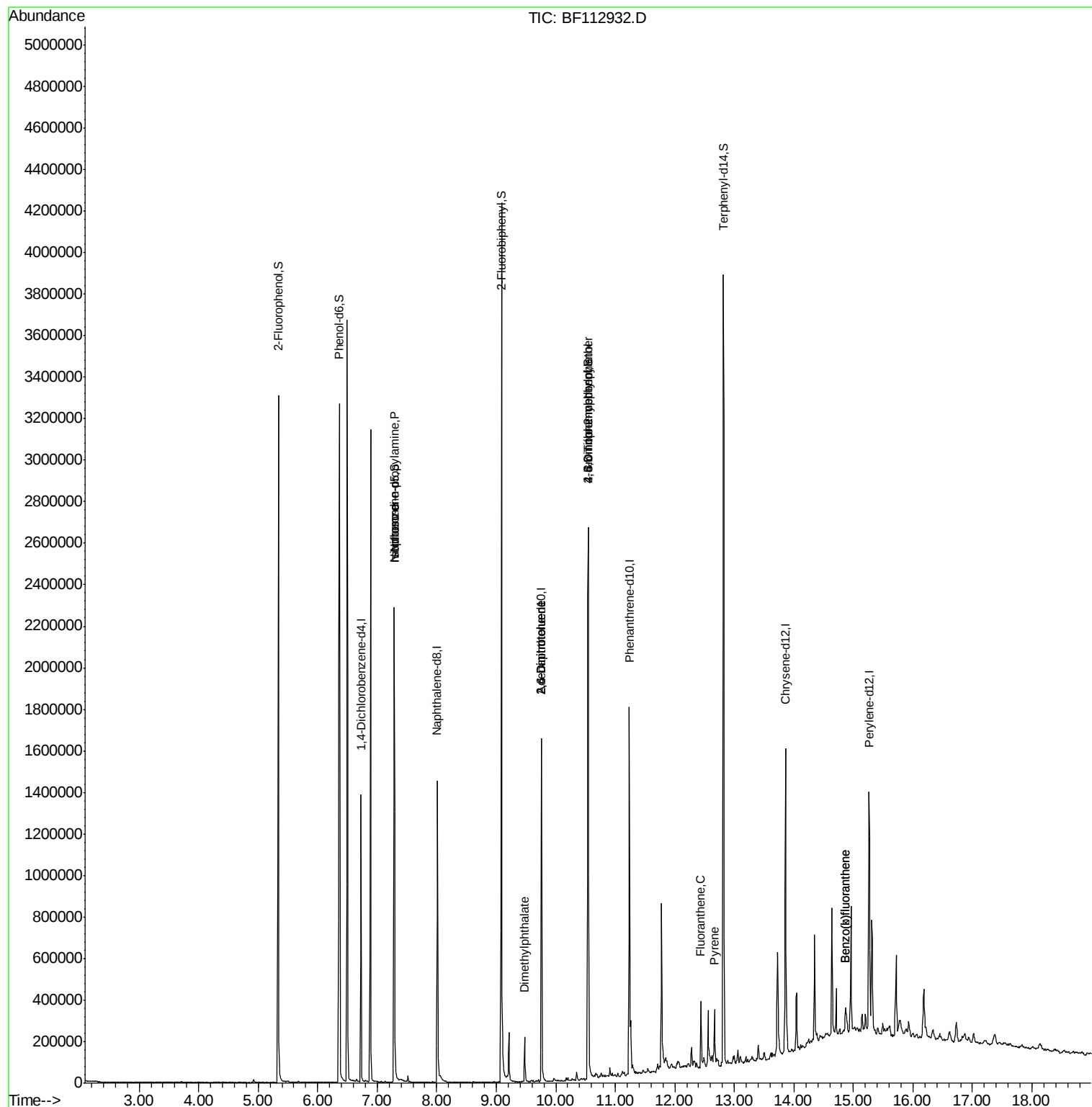
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 94808    | 9.691  | ng    | # 76   |
| 25) Isophorone                 | 7.29  | 82   | 731094   | 27.234 | ng    | # 66   |
| 50) Dimethylphthalate          | 9.48  | 163  | 107005   | 3.993  | ng    | 98     |
| 51) 2,6-Dinitrotoluene         | 9.76  | 165  | 46319    | 8.301  | ng    | # 18   |
| 57) 2,4-Dinitrotoluene         | 9.76  | 165  | 46435    | 6.695  | ng    | # 17   |
| 65) 4,6-Dinitro-2-methylphenol | 10.55 | 198  | 634      | 4.797  | ng    | # 1    |
| 67) 4-Bromophenyl-phenylether  | 10.55 | 248  | 22395    | 2.815  | ng    | # 1    |
| 75) Fluoranthene               | 12.44 | 202  | 133440   | 3.314  | ng    | 97     |
| 78) Pyrene                     | 12.67 | 202  | 112006   | 2.445  | ng    | 98     |
| 88) Benzo(b)fluoranthene       | 14.86 | 252  | 88534    | 2.473  | ng    | 95     |
| 89) Benzo(k)fluoranthene       | 14.86 | 252  | 88534    | 2.731  | ng    | 94     |

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

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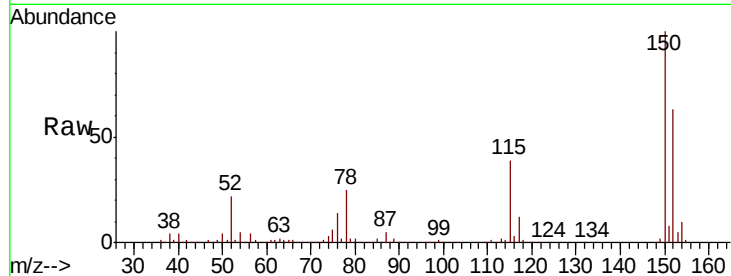




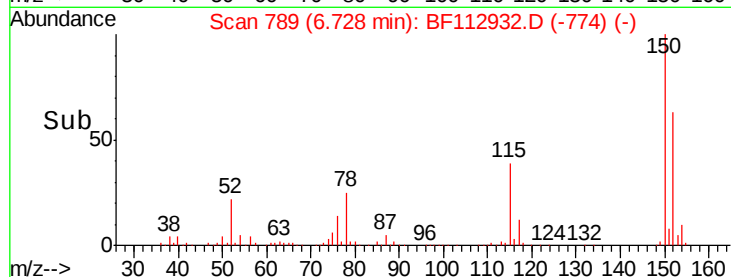
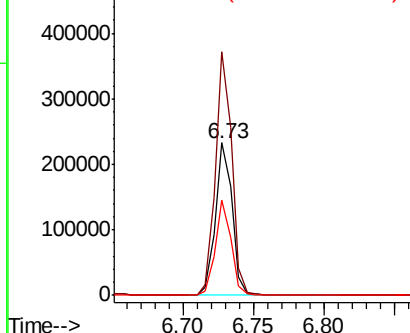
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.73 min Scan# 789  
 Delta R.T. -0.01 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Z2-9

Tgt Ion:152 Resp: 191283  
 Ion Ratio Lower Upper  
 152 100  
 150 159.7 124.2 186.2  
 115 62.5 48.2 72.4

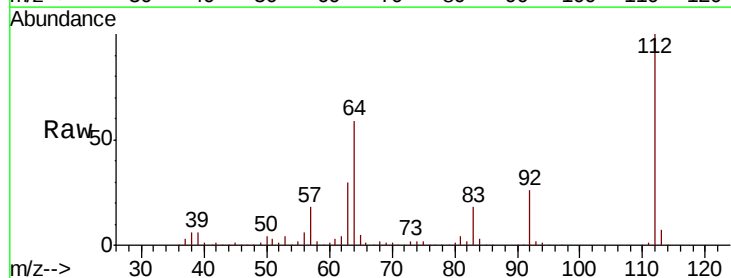


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

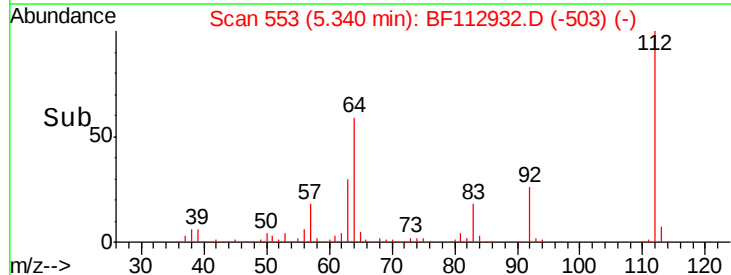
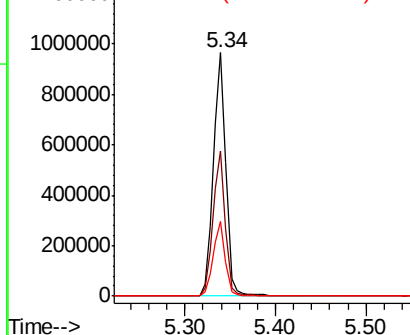


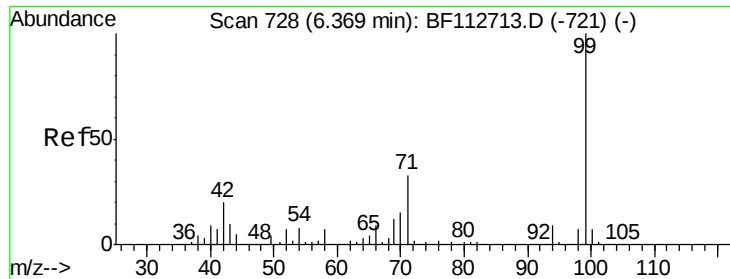
#5  
 2-Fluorophenol  
 Concen: 76.511 ng  
 RT: 5.34 min Scan# 553  
 Delta R.T. -0.01 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Tgt Ion:112 Resp: 940848  
 Ion Ratio Lower Upper  
 112 100  
 64 59.5 47.6 71.4  
 63 30.4 24.4 36.6



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: 79.627 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF112932.D

Acq: 7 Mar 2019 20:12

Instrument :

BNA\_F

ClientSampleId :

Z2-9

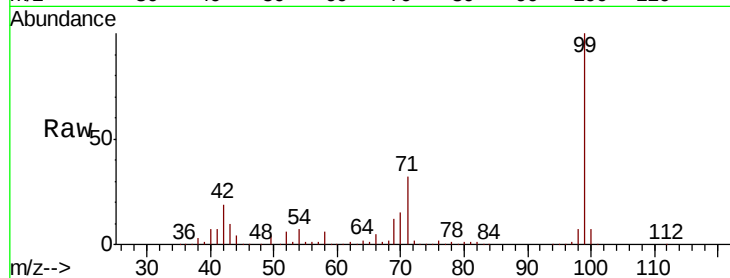
Tgt Ion: 99 Resp: 1229990

Ion Ratio Lower Upper

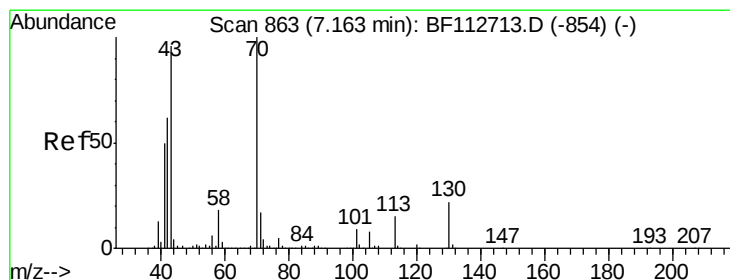
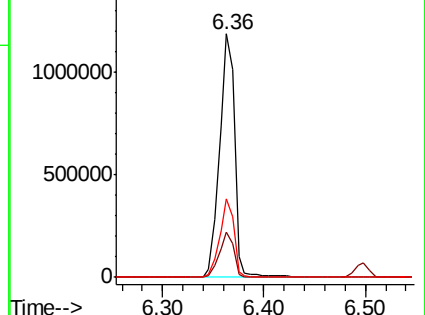
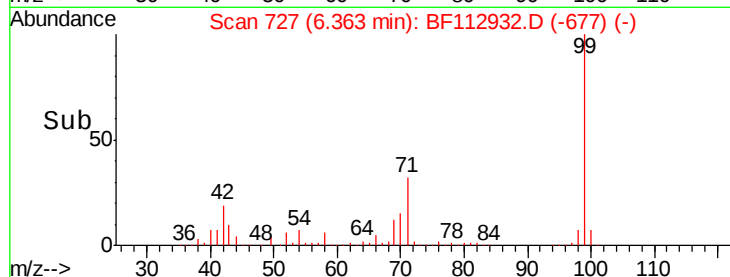
99 100

42 18.7 16.3 24.5

71 32.0 26.2 39.4



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: 9.691 ng

RT: 7.29 min Scan# 884

Delta R.T. 0.12 min

Lab File: BF112932.D

Acq: 7 Mar 2019 20:12

Tgt Ion: 70 Resp: 94808

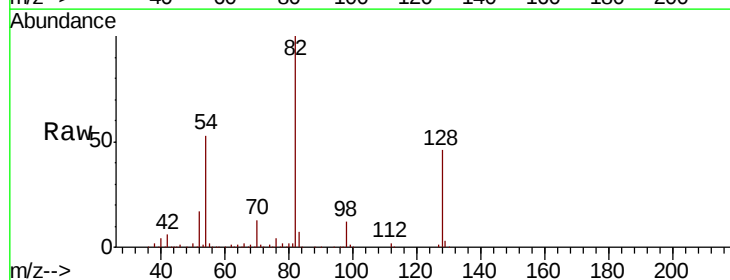
Ion Ratio Lower Upper

70 100

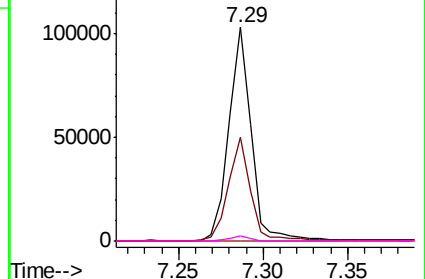
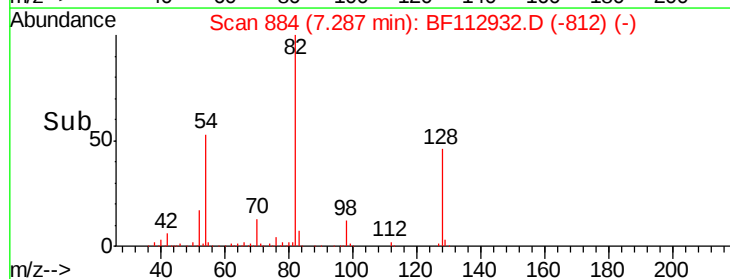
42 48.6 49.9 74.9#

101 0.0 7.4 11.2#

130 2.2 17.4 26.2#



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

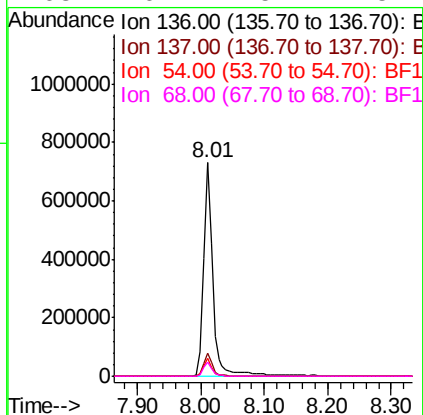
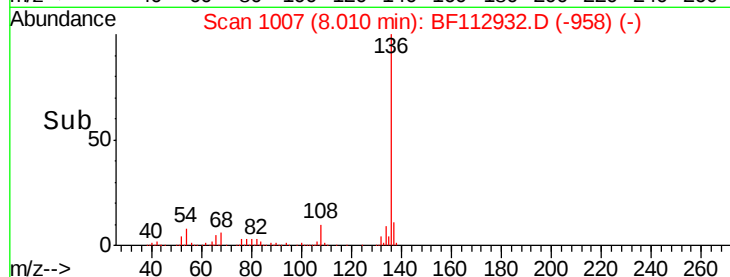
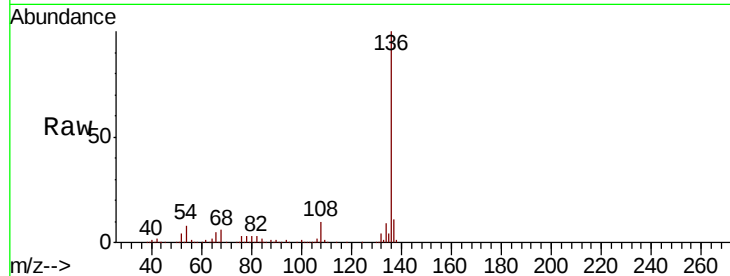




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 1007  
Delta R.T. -0.01 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

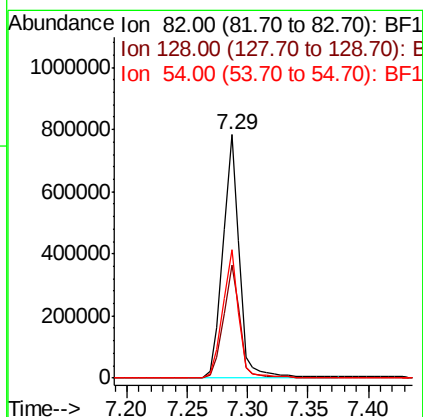
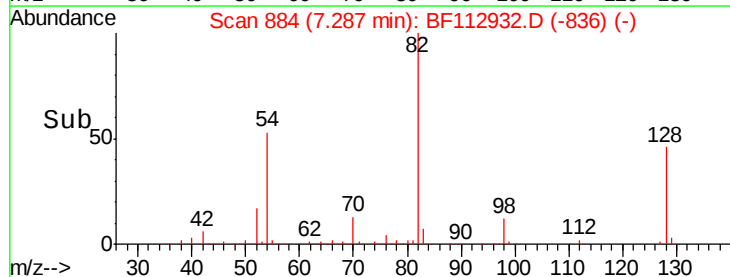
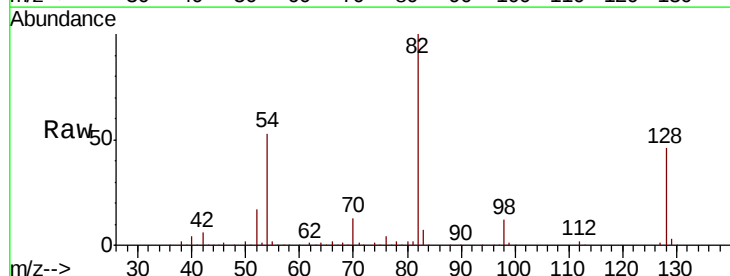
Instrument :  
BNA\_F  
ClientSampleId :  
Z2-9

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 745618 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 8.3   | 7.3   | 10.9   |
| 68       | 6.4   | 5.4   | 8.2    |



#23  
Nitrobenzene-d5  
Concen: 59.354 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.02 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 739589 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 46.3  | 36.3  | 54.5   |
| 54       | 52.8  | 43.7  | 65.5   |

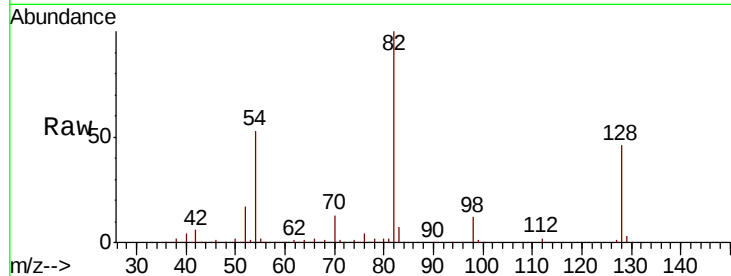




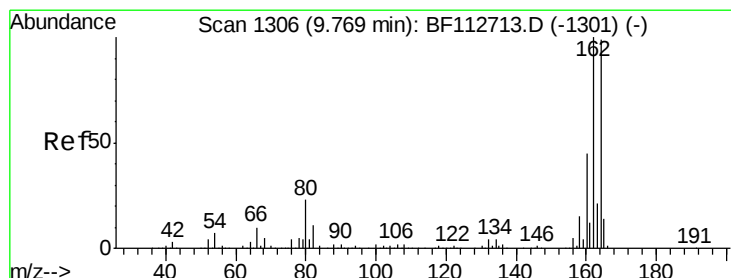
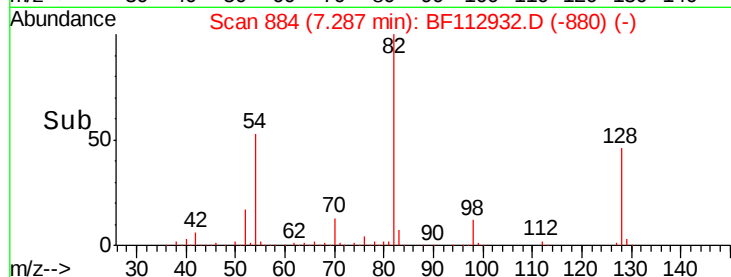
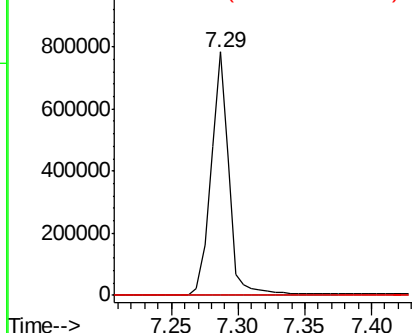
#25  
Isophorone  
Concen: 27.234 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.28 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

Instrument :  
BNA\_F  
ClientSampleId :  
Z2-9

Tgt Ion: 82 Resp: 731094  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 13.8 20.8#

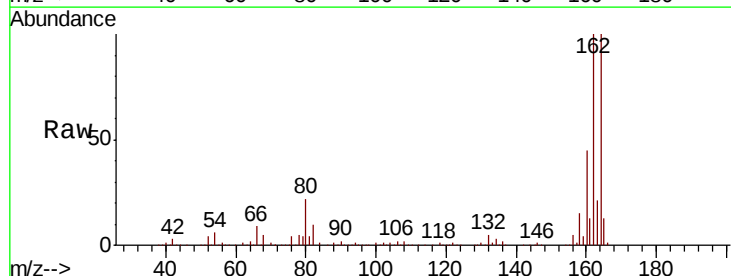


Abundance Ion 82.00 (81.70 to 82.70): BF1  
Ion 95.00 (94.70 to 95.70): BF1  
Ion 138.00 (137.70 to 138.70): BF1

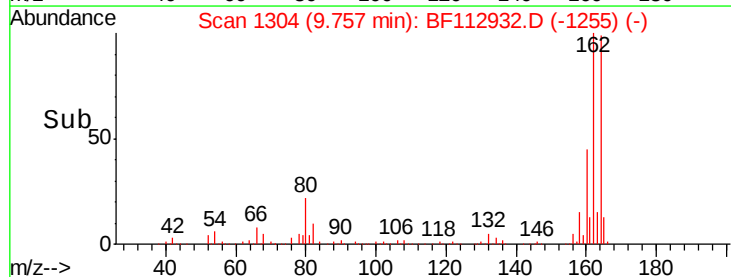
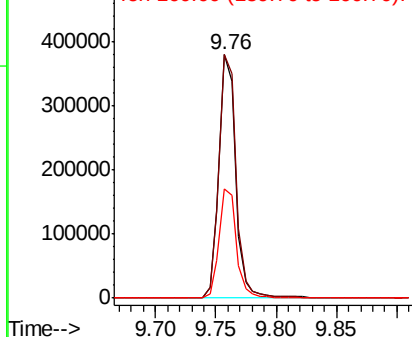


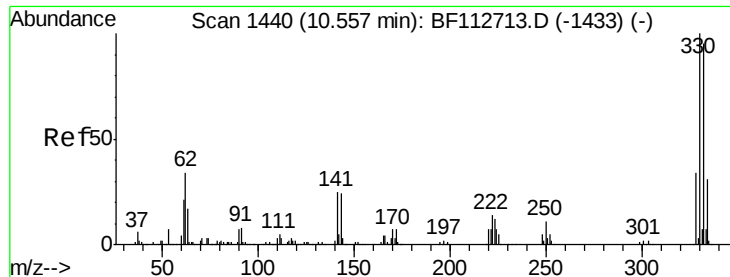
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.01 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

Tgt Ion: 164 Resp: 363413  
Ion Ratio Lower Upper  
164 100  
162 99.9 80.6 120.8  
160 45.0 36.0 54.0



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

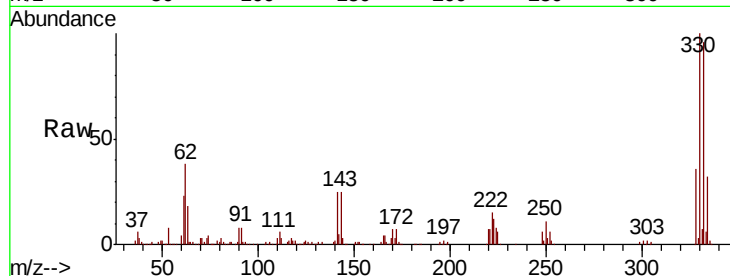




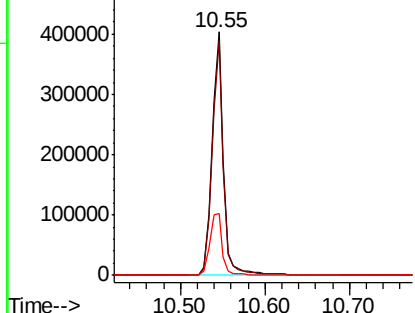
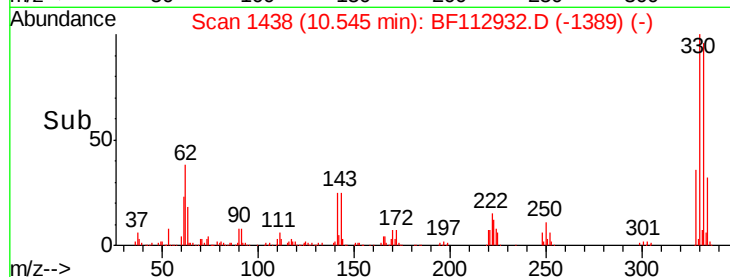
#42  
 2,4,6-Tribromophenol  
 Concen: 101.188 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.01 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Instrument :  
 BNA\_F  
 ClientSampled :  
 Z2-9

Tgt Ion:330 Resp: 390392  
 Ion Ratio Lower Upper  
 330 100  
 332 95.3 76.2 114.4  
 141 28.5 27.0 40.6

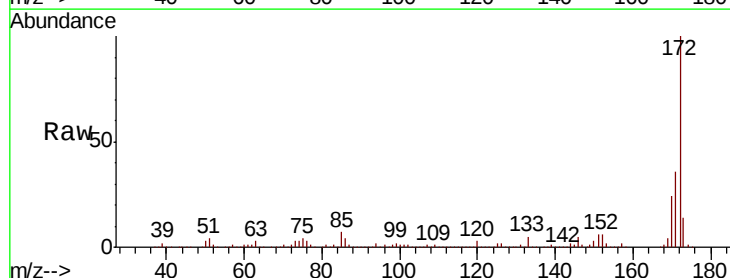


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

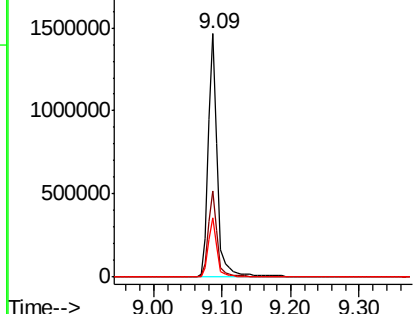
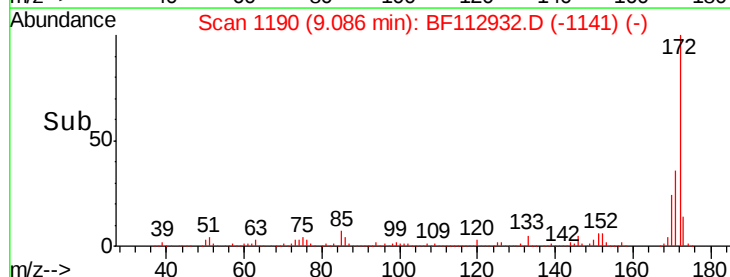


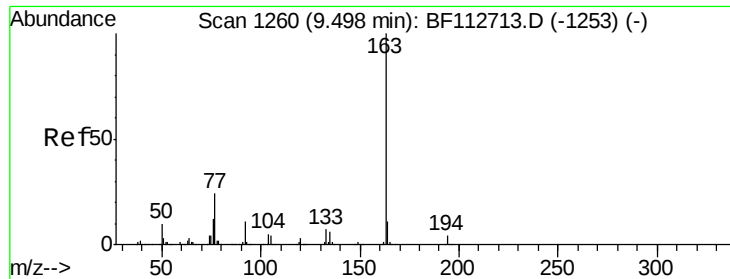
#45  
 2-Fluorobiphenyl  
 Concen: 59.600 ng  
 RT: 9.09 min Scan# 1190  
 Delta R.T. -0.01 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Tgt Ion:172 Resp: 1414551  
 Ion Ratio Lower Upper  
 172 100  
 171 35.6 29.0 43.4  
 170 24.2 20.0 30.0



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

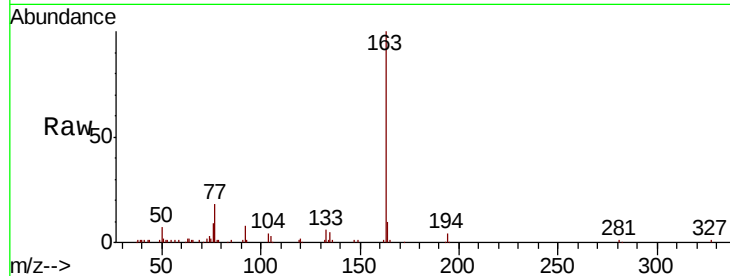




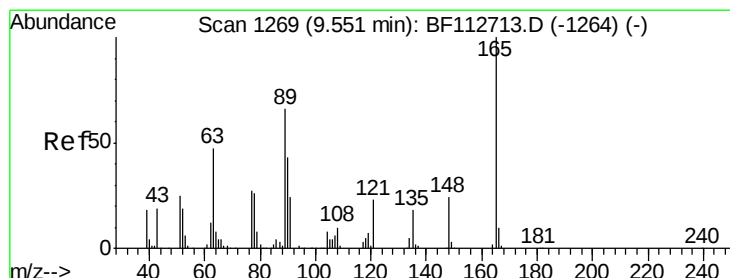
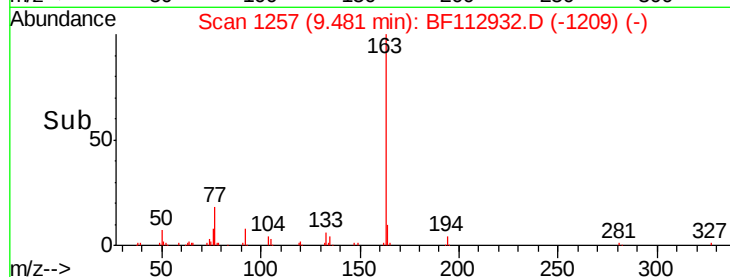
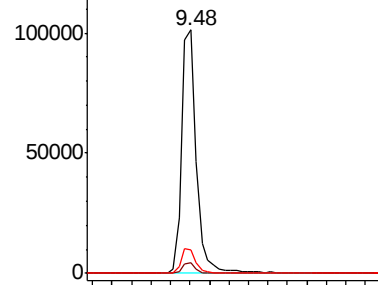
#50  
Dimethylphthalate  
Concen: 3.993 ng  
RT: 9.48 min Scan# 1257  
Delta R.T. -0.02 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

Instrument :  
BNA\_F  
ClientSampleId :  
Z2-9

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.3   | 3.0   | 4.4   |
| 164     | 9.8   | 8.4   | 12.6  |

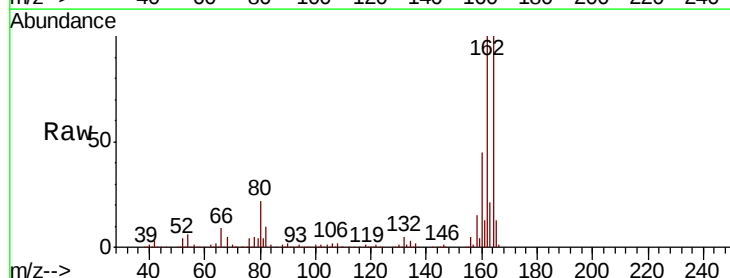


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

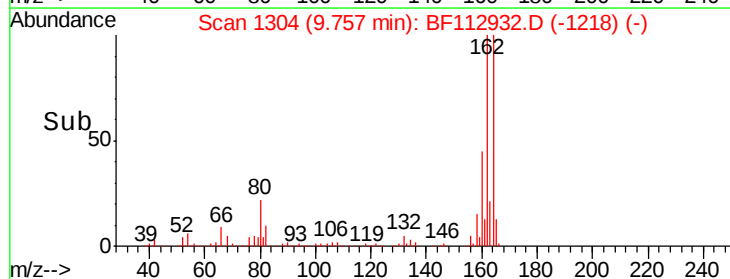
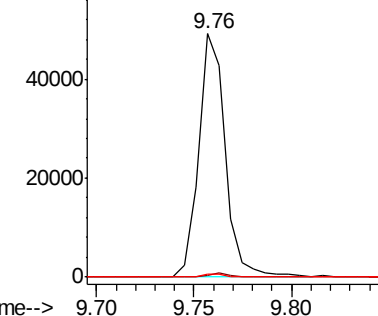


#51  
2,6-Dinitrotoluene  
Concen: 8.301 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. 0.21 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.9   | 54.1  | 81.1# |
| 89      | 1.0   | 52.8  | 79.2# |



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

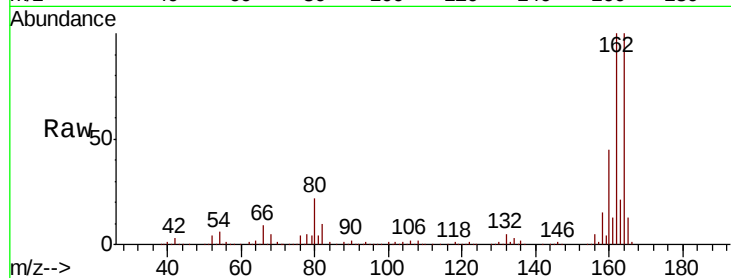




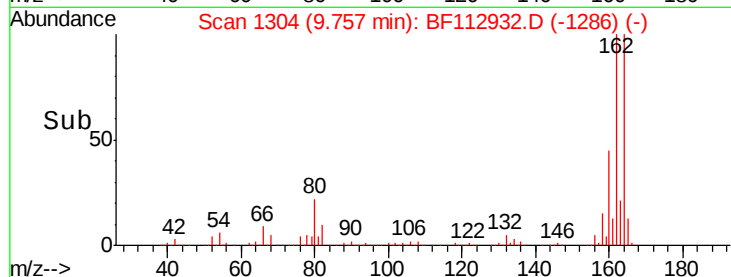
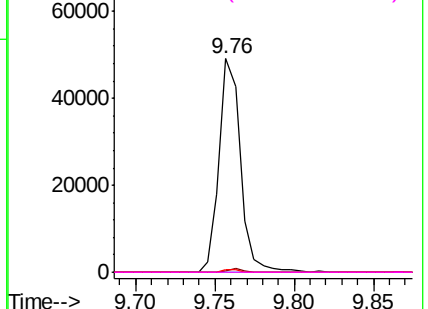
#57  
2,4-Dinitrotoluene  
Concen: 6.695 ng  
RT: 9.76 min Scan# 1304  
Delta R.T. -0.19 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

Instrument :  
BNA\_F  
ClientSampleId :  
Z2-9

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 46435 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 0.9   | 42.2  | 63.2# |
| 89       | 1.0   | 66.2  | 99.4# |
| 182      | 0.0   | 1.8   | 2.6#  |

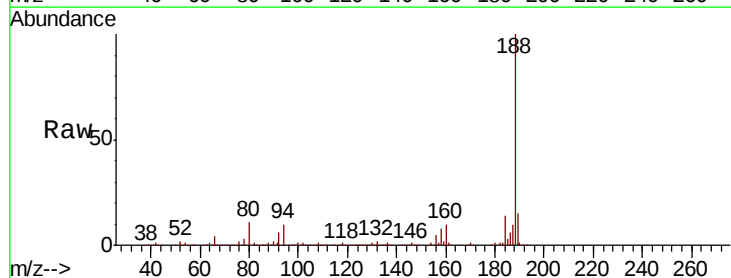


Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1  
Ion 182.00 (181.70 to 182.70): E

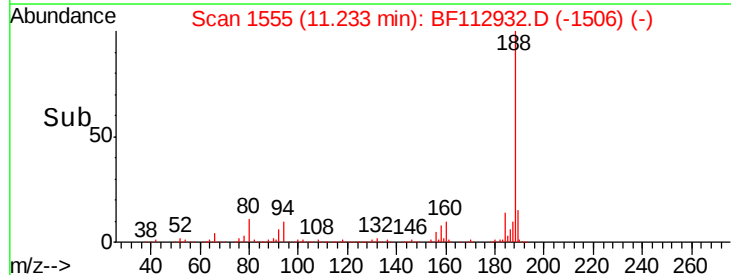
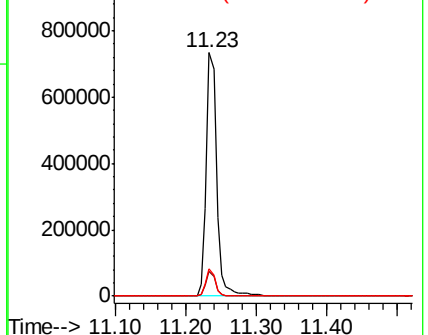


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.23 min Scan# 1555  
Delta R.T. -0.01 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 755352 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.2  | 9.0   | 13.4   |
| 80       | 11.2  | 9.2   | 13.8   |



Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

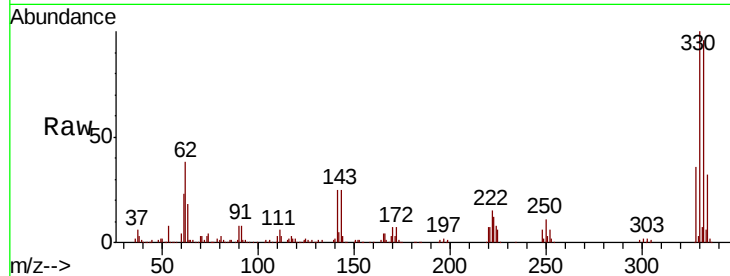




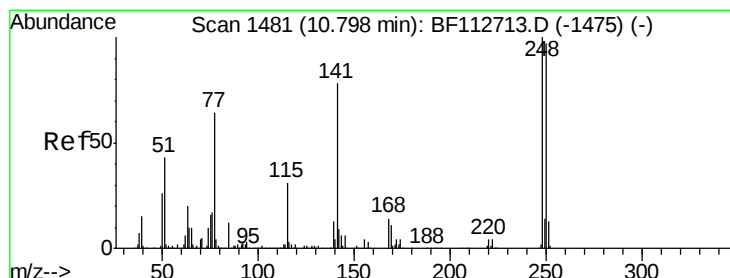
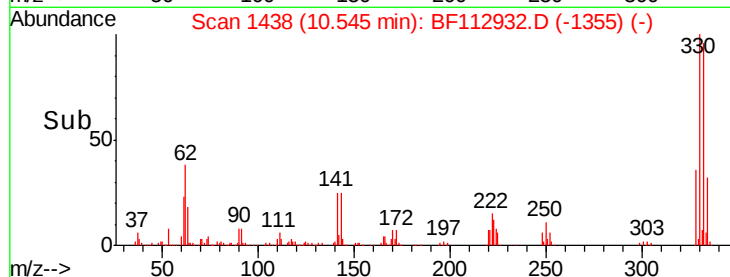
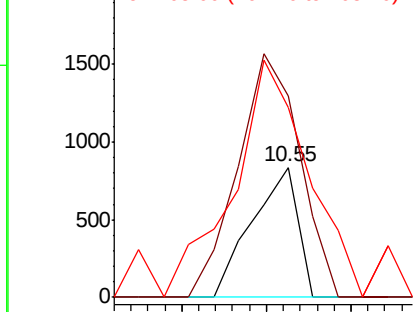
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 4.797 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. 0.19 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Z2-9

Tgt Ion:198 Resp: 634  
 Ion Ratio Lower Upper  
 198 100  
 51 154.9 43.8 83.8#  
 105 146.6 36.5 76.5#

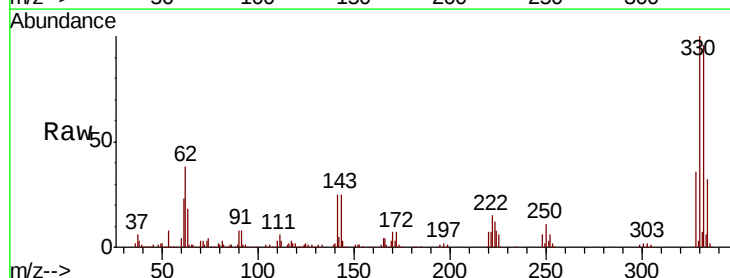


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

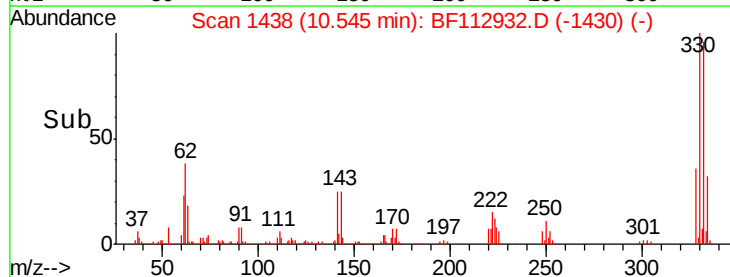
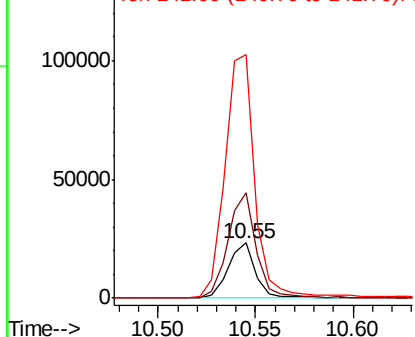


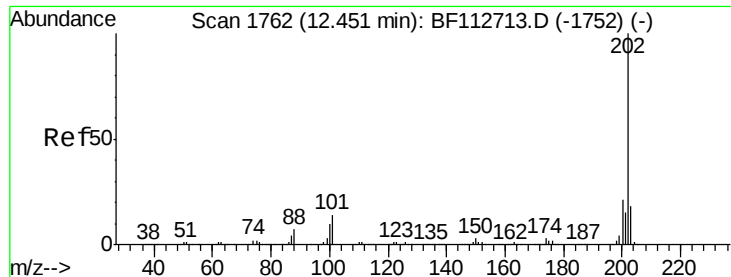
#67  
 4-Bromophenyl-phenylether  
 Concen: 2.815 ng  
 RT: 10.55 min Scan# 1438  
 Delta R.T. -0.25 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Tgt Ion:248 Resp: 22395  
 Ion Ratio Lower Upper  
 248 100  
 250 192.2 77.5 116.3#  
 141 444.0 62.4 93.6#



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: 3.314 ng

RT: 12.44 min Scan# 1760

Delta R.T. -0.01 min

Lab File: BF112932.D

Acq: 7 Mar 2019 20:12

Instrument :

BNA\_F

ClientSampleId :

Z2-9

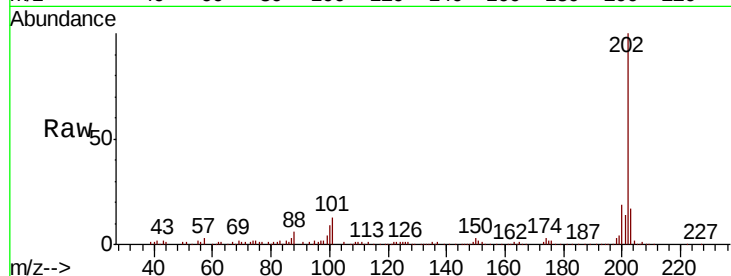
Tgt Ion: 202 Resp: 133440

Ion Ratio Lower Upper

202 100

101 12.6 0.0 33.8

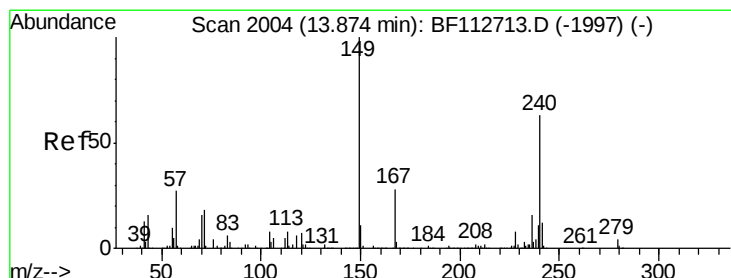
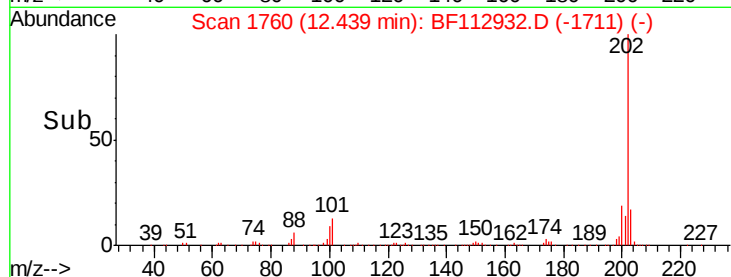
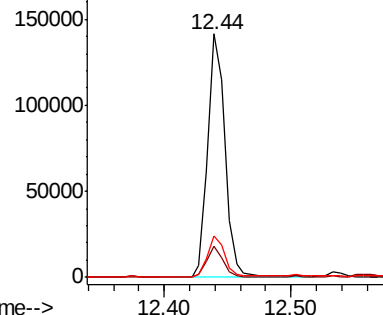
203 16.8 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.86 min Scan# 2001

Delta R.T. -0.02 min

Lab File: BF112932.D

Acq: 7 Mar 2019 20:12

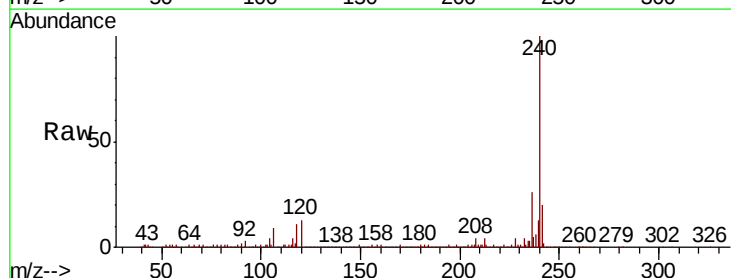
Tgt Ion: 240 Resp: 543361

Ion Ratio Lower Upper

240 100

120 12.9 8.9 13.3

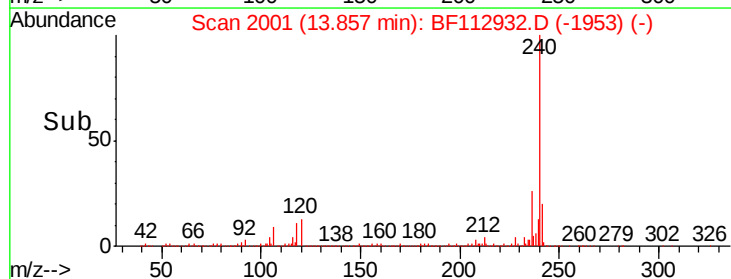
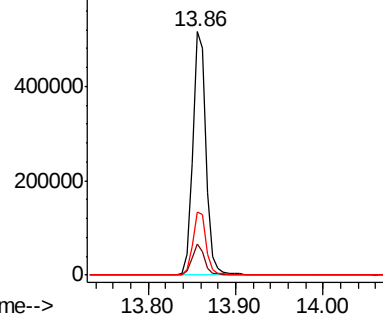
236 25.9 20.7 31.1

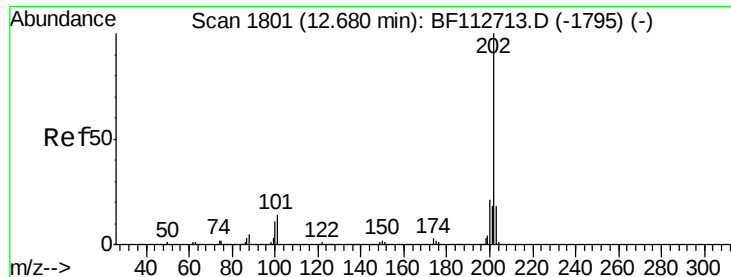


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pyrene

Concen: 2.445 ng

RT: 12.67 min Scan# 1799

Delta R.T. -0.01 min

Lab File: BF112932.D

Acq: 7 Mar 2019 20:12

Instrument :

BNA\_F

ClientSampleId :

Z2-9

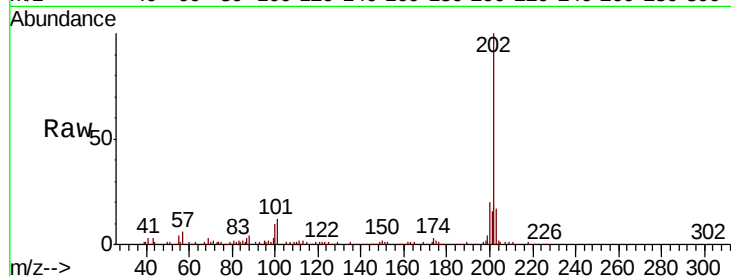
Tgt Ion:202 Resp: 112006

Ion Ratio Lower Upper

202 100

200 19.7 17.0 25.4

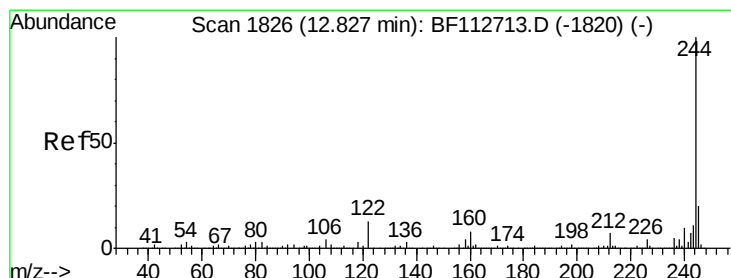
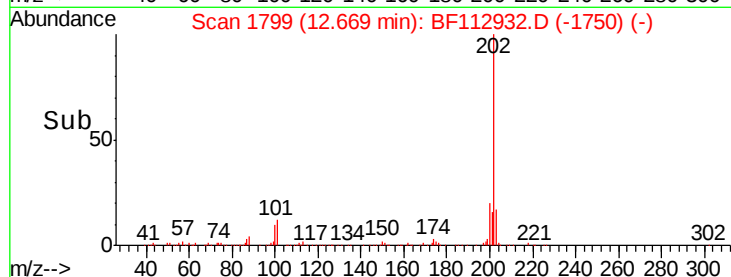
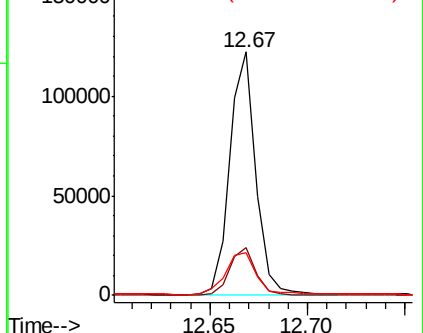
203 17.3 14.4 21.6



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



#79

Terphenyl-d14

Concen: 50.188 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF112932.D

Acq: 7 Mar 2019 20:12

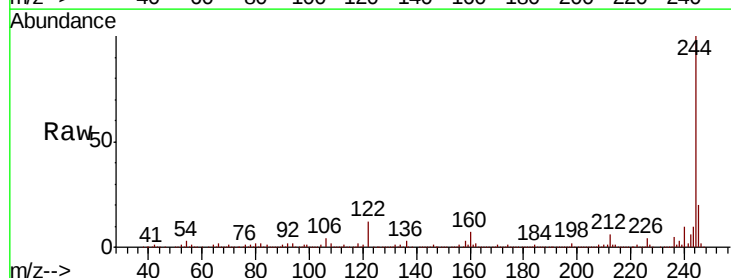
Tgt Ion:244 Resp: 1406775

Ion Ratio Lower Upper

244 100

212 6.4 5.6 8.4

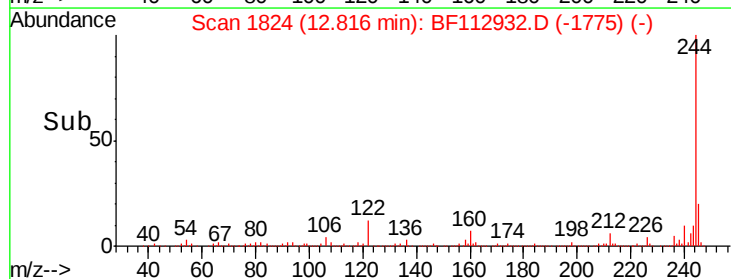
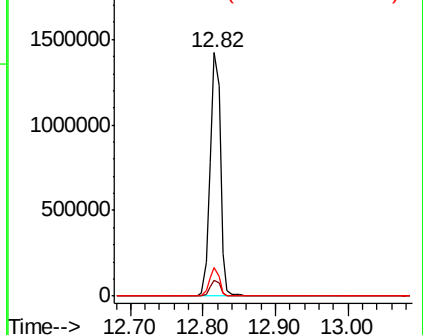
122 12.0 10.5 15.7

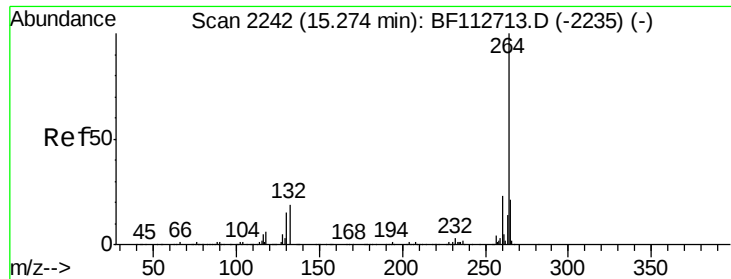


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



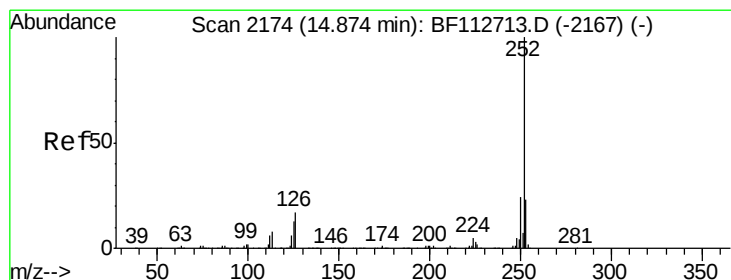
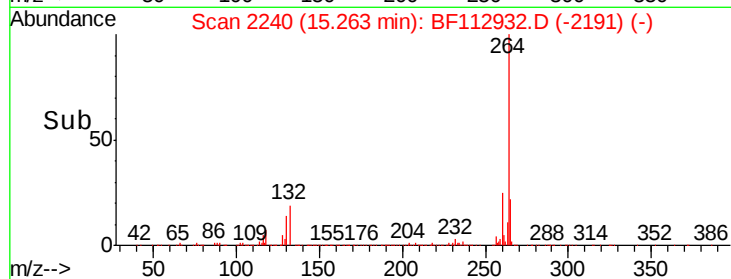
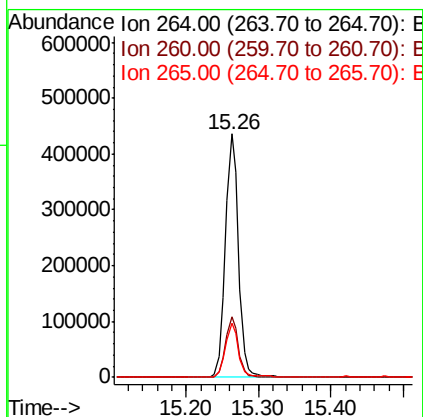
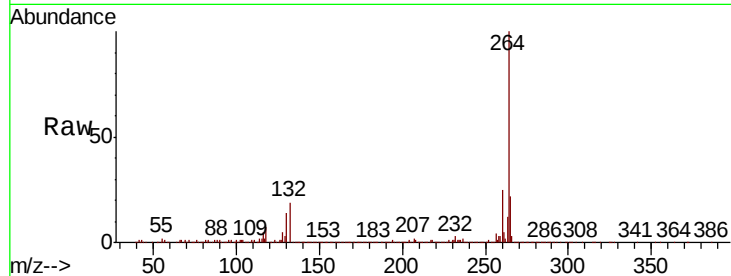


#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.26 min Scan# 2240  
Delta R.T. -0.01 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

Instrument :  
BNA\_F  
ClientSampleId :  
Z2-9

Tgt Ion:264 Resp: 553381  

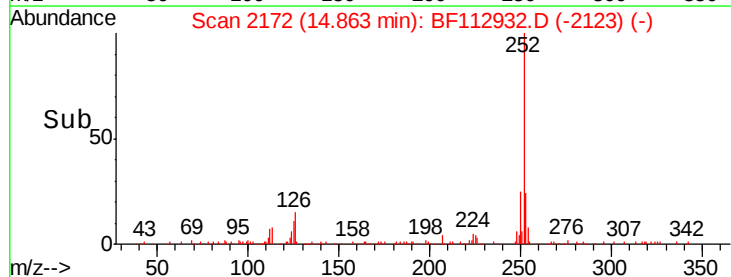
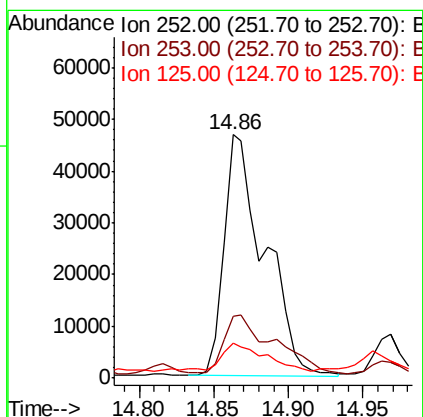
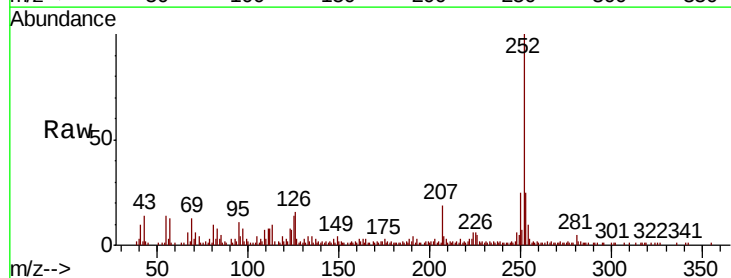
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.9  | 18.7  | 28.1  |
| 265 | 22.4  | 17.2  | 25.8  |

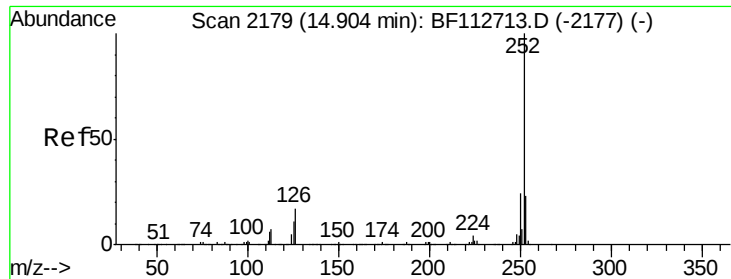


#88  
Benzo(b)fluoranthene  
Concen: 2.473 ng  
RT: 14.86 min Scan# 2172  
Delta R.T. -0.01 min  
Lab File: BF112932.D  
Acq: 7 Mar 2019 20:12

Tgt Ion:252 Resp: 88534  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.4  | 18.0  | 27.0  |
| 125 | 14.4  | 10.2  | 15.2  |





#89  
 Benzo(k)fluoranthene  
 Concen: 2.731 ng  
 RT: 14.86 min Scan# 2172  
 Delta R.T. -0.04 min  
 Lab File: BF112932.D  
 Acq: 7 Mar 2019 20:12

Instrument :  
 BNA\_F  
 ClientSampleId :  
 Z2-9

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.4  | 18.2  | 27.2  |
| 125     | 14.4  | 9.8   | 14.6  |

