

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF022219\  
 Data File : BF112672.D  
 Acq On : 22 Feb 2019 18:50  
 Operator : JU/SJ  
 Sample : K1570-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 25-10

Quant Time: Feb 22 22:15:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

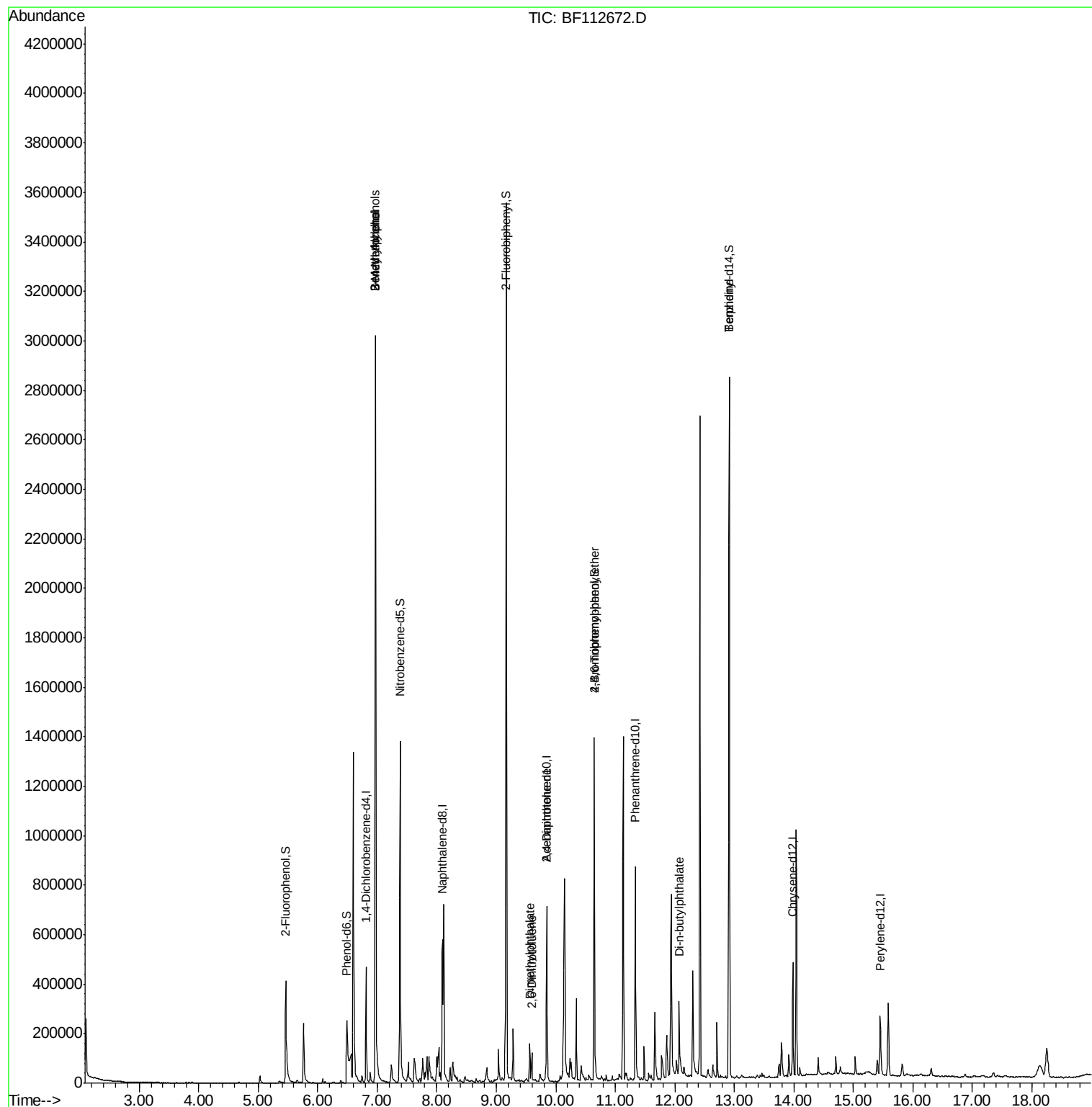
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4     | 6.82  | 152  | 79248    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8            | 8.10  | 136  | 339324   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10          | 9.85  | 164  | 145922   | 20.00  | ng    | -0.04    |
| 64) Phenanthrene-d10          | 11.34 | 188  | 274949   | 20.00  | ng    | -0.03    |
| 76) Chrysene-d12              | 13.98 | 240  | 163395   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12              | 15.45 | 264  | 134679   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds   |       |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.46  | 112  | 173534   | 46.51  | ng    | -0.02    |
| 7) Phenol-d6                  | 6.49  | 99   | 131567   | 25.38  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.38  | 82   | 533705   | 90.63  | ng    | -0.03    |
| 42) 2,4,6-Tribromophenol      | 10.65 | 330  | 178237   | 104.94 | ng    | -0.04    |
| 45) 2-Fluorobiphenyl          | 9.17  | 172  | 1043712  | 101.16 | ng    | -0.04    |
| 79) Terphenyl-d14             | 12.92 | 244  | 877398   | 101.14 | ng    | -0.04    |
| Target Compounds              |       |      |          |        |       |          |
| 15) Benzyl Alcohol            | 6.97  | 79   | 328727   | 75.219 | ng    | 95       |
| 17) 2-Methylphenol            | 6.97  | 107  | 169419   | 42.581 | ng    | # 12     |
| 20) 3+4-Methylphenols         | 6.97  | 107  | 169418   | 33.298 | ng    | # 41     |
| 50) Dimethylphthalate         | 9.56  | 163  | 60706    | 5.354  | ng    | 97       |
| 51) 2,6-Dinitrotoluene        | 9.60  | 165  | 10599    | 4.174  | ng    | # 32     |
| 57) 2,4-Dinitrotoluene        | 9.85  | 165  | 17957    | 5.555  | ng    | # 33     |
| 67) 4-Bromophenyl-phenylether | 10.65 | 248  | 10752    | 3.325  | ng    | # 1      |
| 74) Di-n-butylphthalate       | 12.07 | 149  | 57650    | 3.307  | ng    | 96       |
| 77) Benzidine                 | 12.92 | 184  | 13193    | 2.934  | ng    | # 88     |

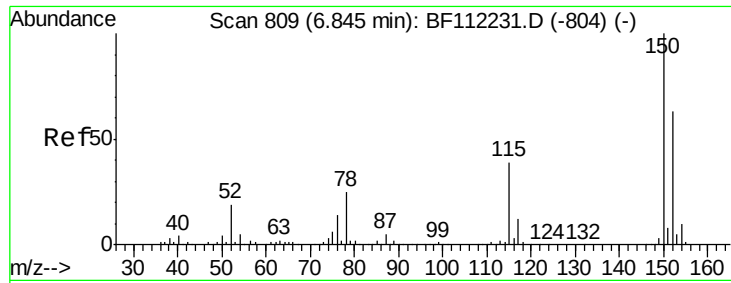
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF022219\  
Data File : BF112672.D  
Acq On : 22 Feb 2019 18:50  
Operator : JU/SJ  
Sample : K1570-04  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
25-10

Quant Time: Feb 22 22:15:14 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 28 10:38:18 2019  
Response via : Initial Calibration



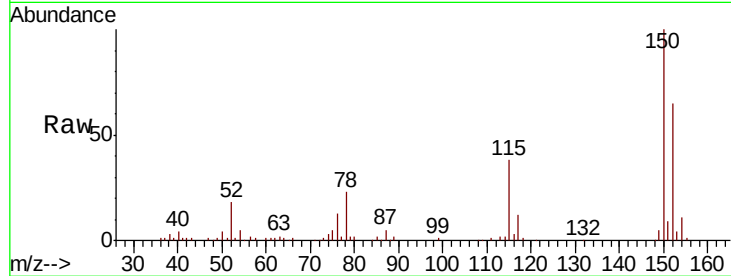


#1

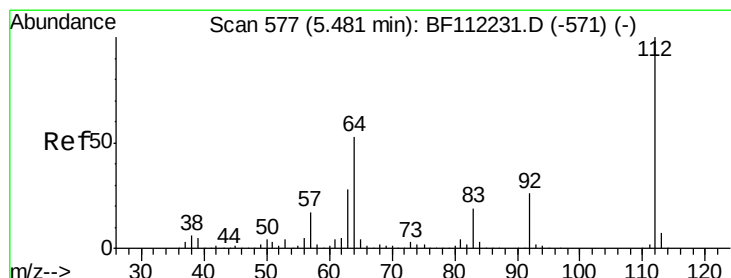
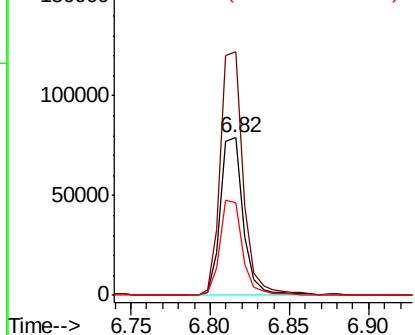
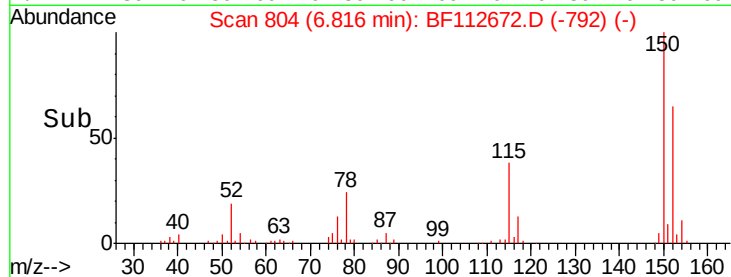
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 804  
Delta R.T. -0.03 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
25-10

Tgt Ion:152 Resp: 79248  
Ion Ratio Lower Upper  
152 100  
150 154.7 127.4 191.0  
115 58.5 45.5 68.3



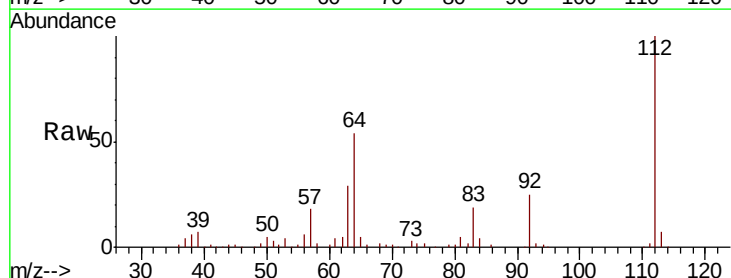
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



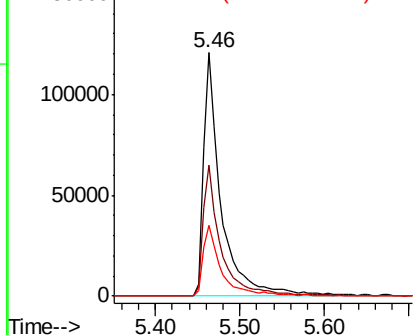
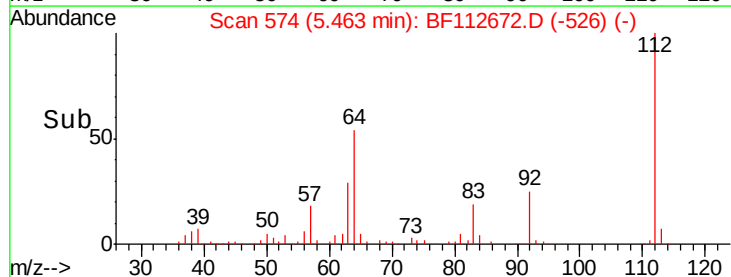
#5

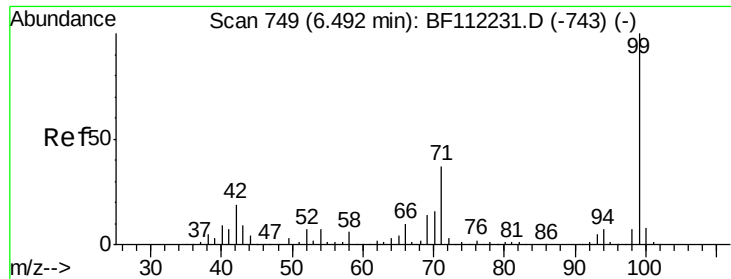
2-Fluorophenol  
Concen: 46.512 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.02 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

Tgt Ion:112 Resp: 173534  
Ion Ratio Lower Upper  
112 100  
64 53.8 45.7 68.5  
63 29.2 23.6 35.4



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: 25.378 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

Instrument :

BNA\_F

ClientSampleId :

25-10

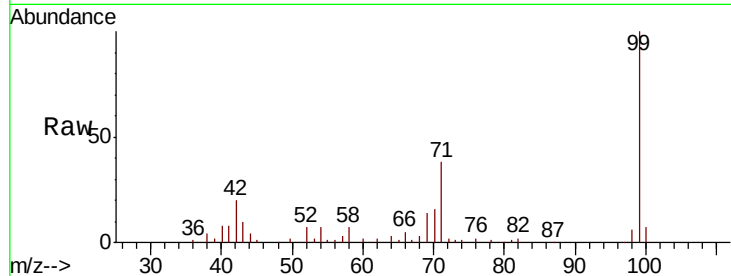
Tgt Ion: 99 Resp: 131567

Ion Ratio Lower Upper

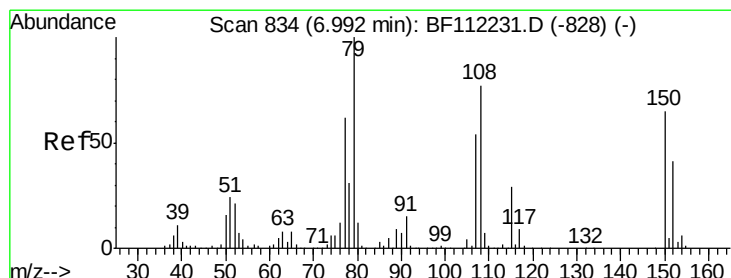
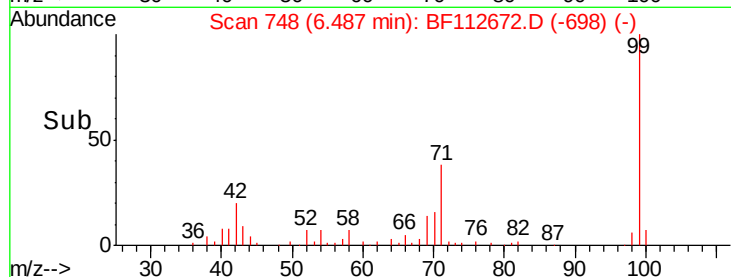
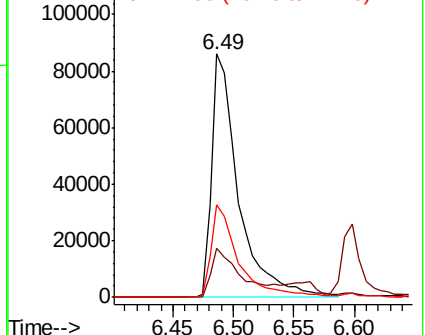
99 100

42 20.2 15.1 22.7

71 38.2 26.9 40.3



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



#15

Benzyl Alcohol

Concen: 75.219 ng

RT: 6.97 min Scan# 831

Delta R.T. -0.02 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

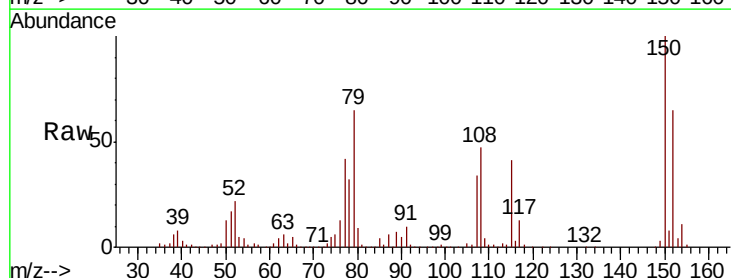
Tgt Ion: 79 Resp: 328727

Ion Ratio Lower Upper

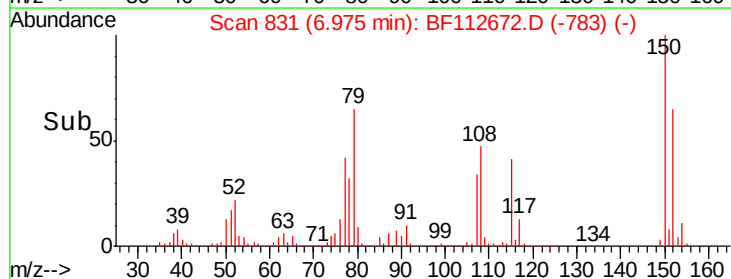
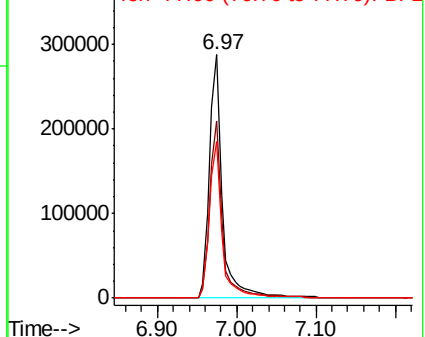
79 100

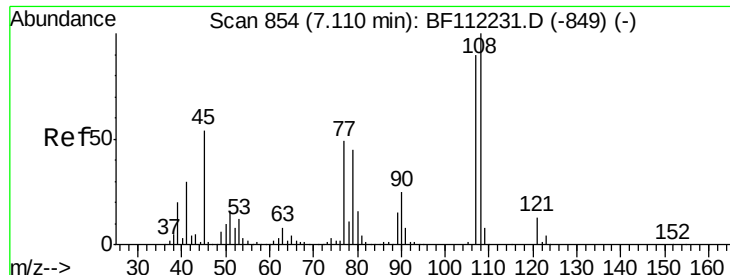
108 72.9 64.2 96.2

77 64.3 50.3 75.5



Abundance Ion 79.00 (78.70 to 79.70): BF1  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BF1

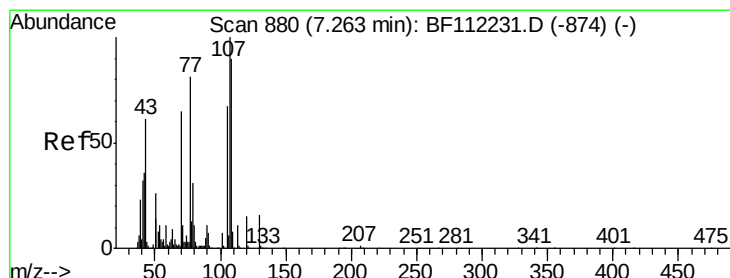
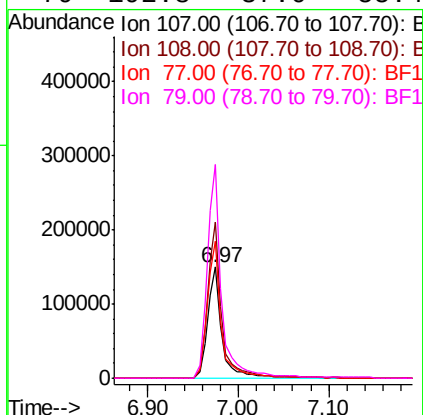
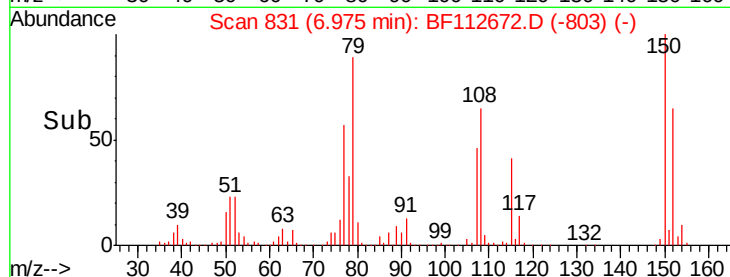
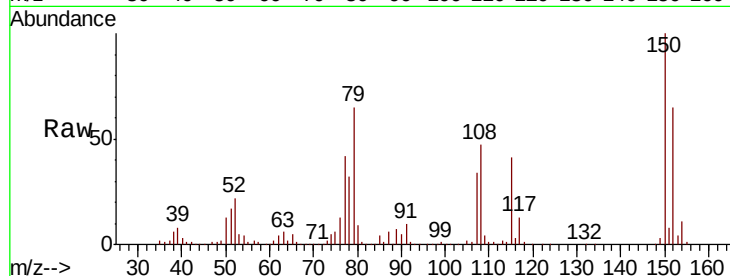




#17  
2-Methylphenol  
Concen: 42.581 ng  
RT: 6.97 min Scan# 831  
Delta R.T. -0.14 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

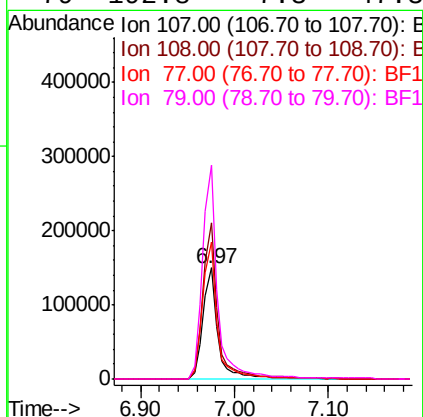
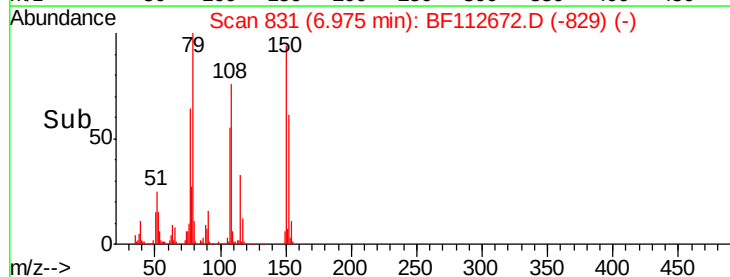
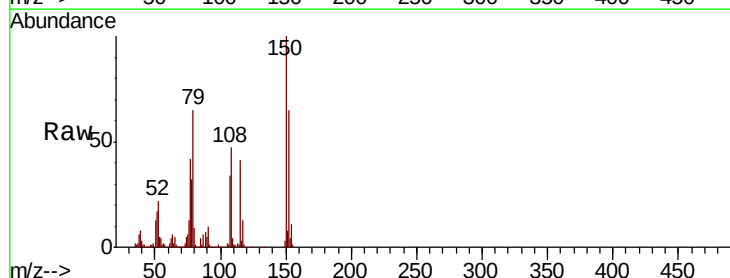
Instrument :  
BNA\_F  
ClientSampleId :  
25-10

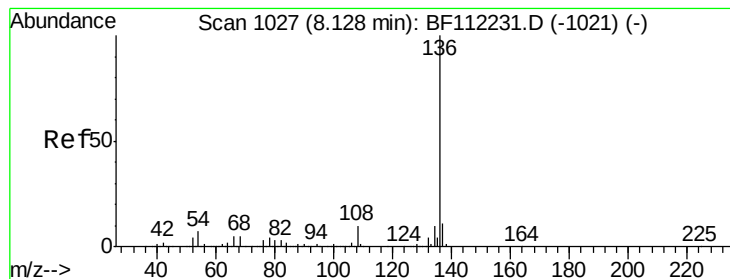
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 140.5 | 91.3  | 136.9# |
| 77      | 124.0 | 39.0  | 58.6#  |
| 79      | 192.8 | 37.0  | 55.4#  |



#20  
3+4-Methylphenols  
Concen: 33.298 ng  
RT: 6.97 min Scan# 831  
Delta R.T. -0.29 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 107     | 100   |       |        |
| 108     | 140.5 | 68.2  | 108.2# |
| 77      | 124.0 | 100.7 | 140.7  |
| 79      | 192.8 | 7.3   | 47.3#  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.03 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

Instrument :

BNA\_F

ClientSampleId :

25-10

Tgt Ion:136 Resp: 339324

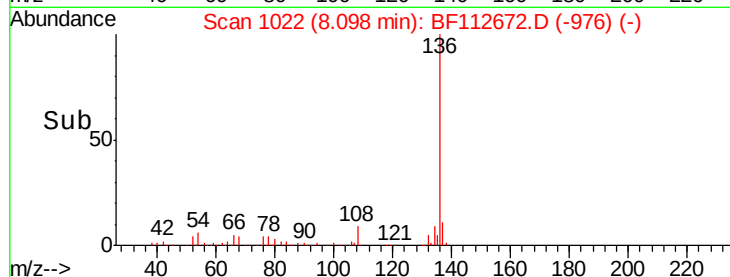
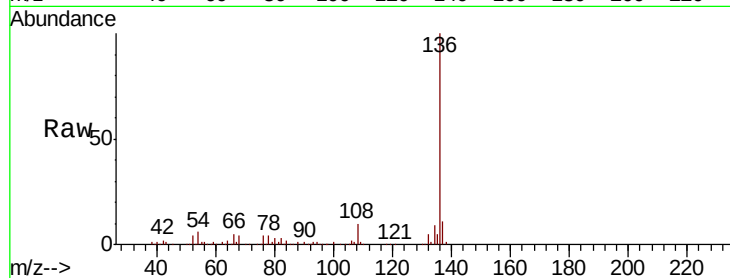
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.7 5.9 8.9#

68 4.3 5.1 7.7#

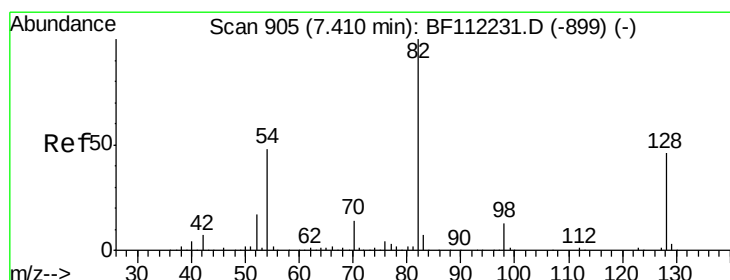
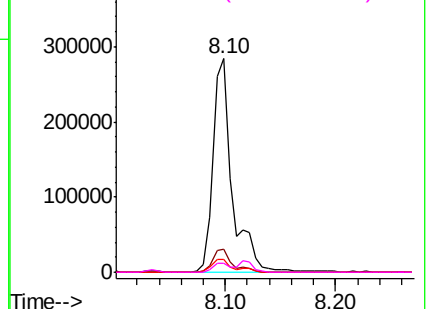


Abundance Ion 136.00 (135.70 to 136.70): E

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: 90.627 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.03 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

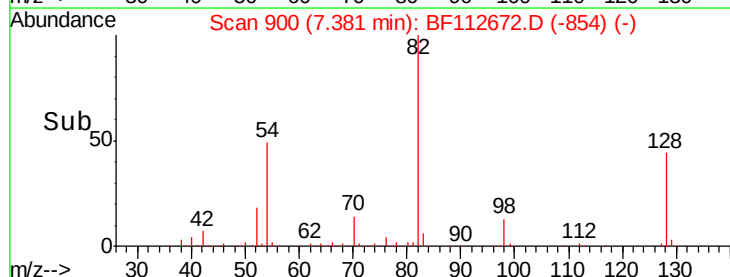
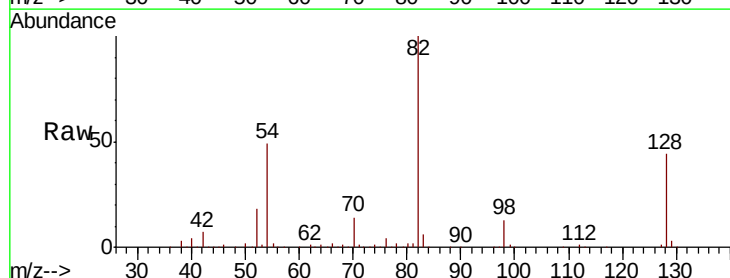
Tgt Ion: 82 Resp: 533705

Ion Ratio Lower Upper

82 100

128 43.5 37.8 56.8

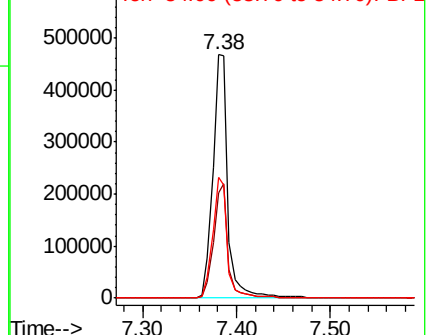
54 49.4 39.7 59.5

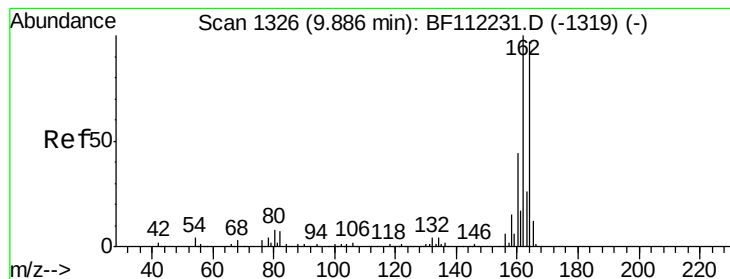


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.04 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

Instrument :

BNA\_F

ClientSampleId :

25-10

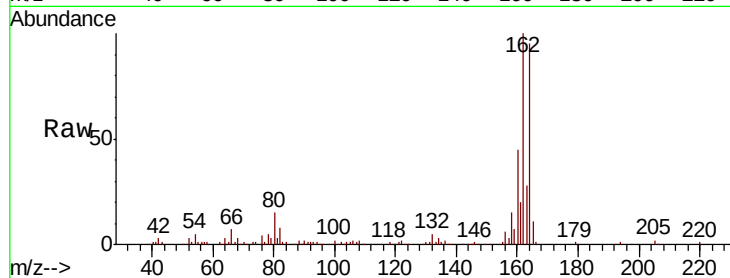
Tgt Ion:164 Resp: 145922

Ion Ratio Lower Upper

164 100

162 105.2 82.2 123.4

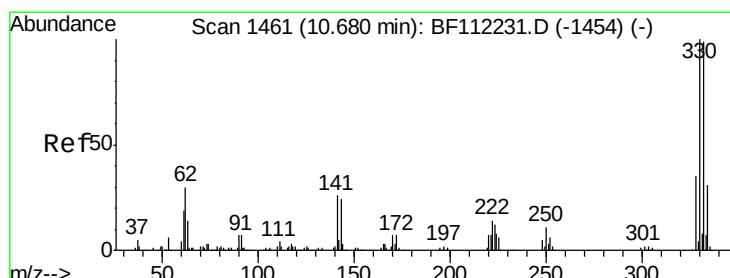
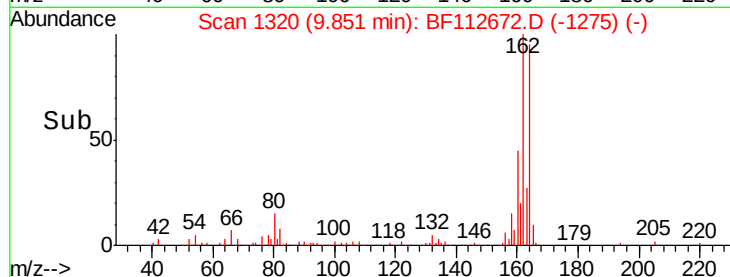
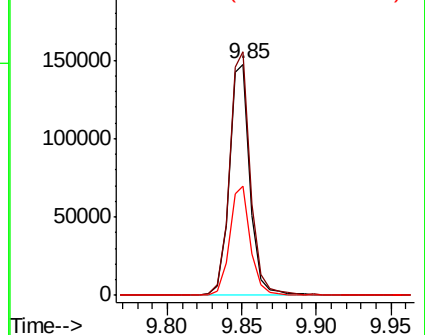
160 47.5 36.2 54.4



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: 104.938 ng

RT: 10.65 min Scan# 1455

Delta R.T. -0.04 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

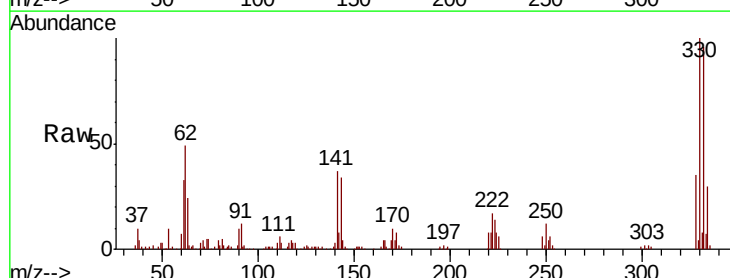
Tgt Ion:330 Resp: 178237

Ion Ratio Lower Upper

330 100

332 95.7 76.6 114.8

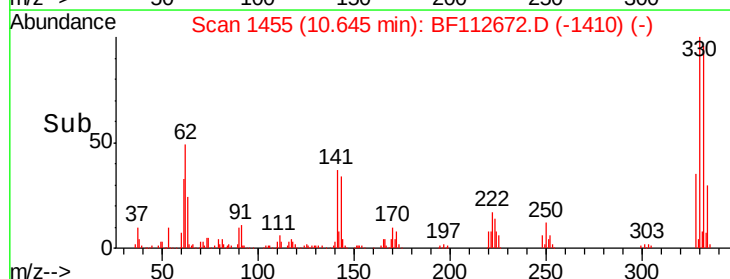
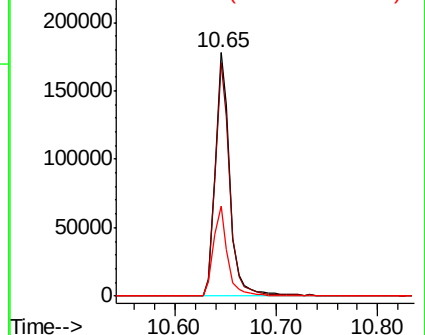
141 36.0 24.3 36.5

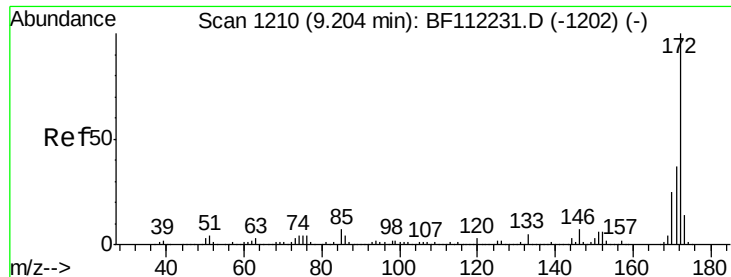


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

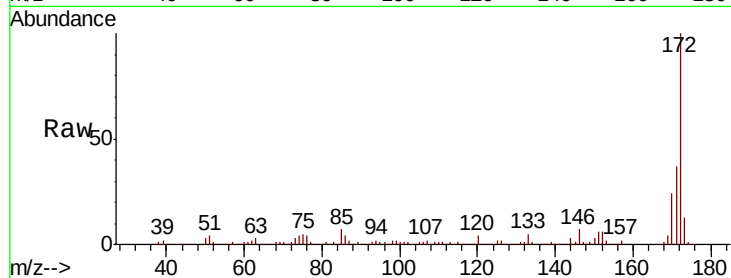




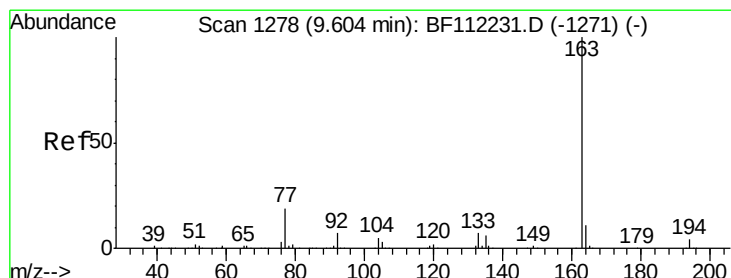
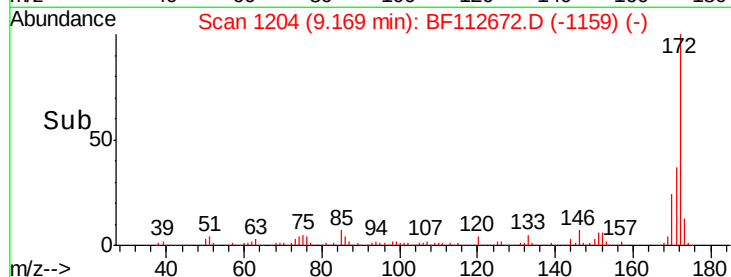
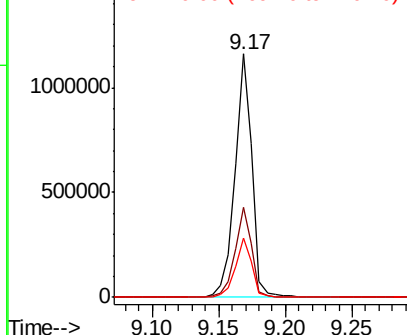
#45  
 2-Fluorobiphenyl  
 Concen: 101.161 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.04 min  
 Lab File: BF112672.D  
 Acq: 22 Feb 2019 18:50

Instrument :  
 BNA\_F  
 ClientSampleId :  
 25-10

Tgt Ion:172 Resp: 1043712  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 30.5 45.7  
 170 24.3 20.2 30.4

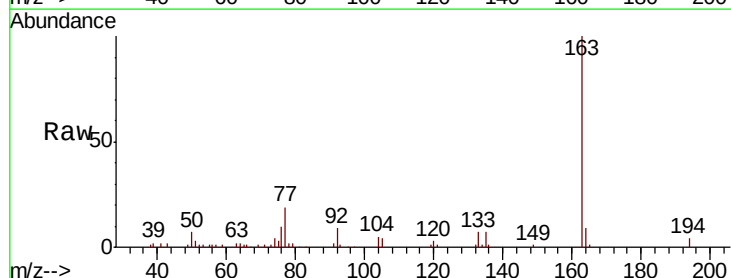


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

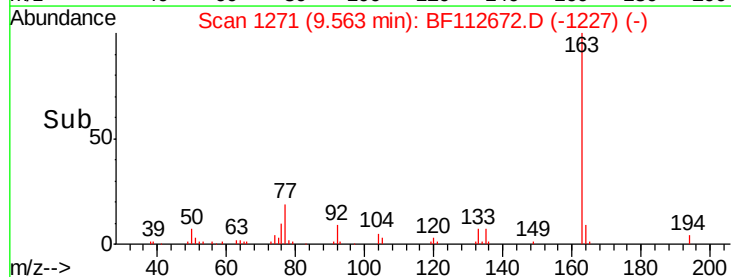
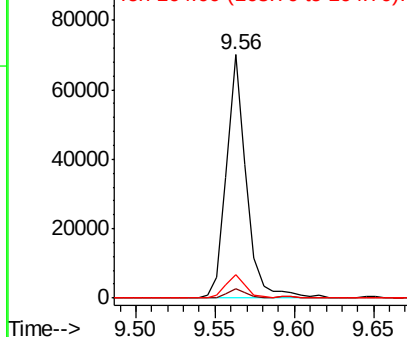


#50  
 Dimethylphthalate  
 Concen: 5.354 ng  
 RT: 9.56 min Scan# 1271  
 Delta R.T. -0.04 min  
 Lab File: BF112672.D  
 Acq: 22 Feb 2019 18:50

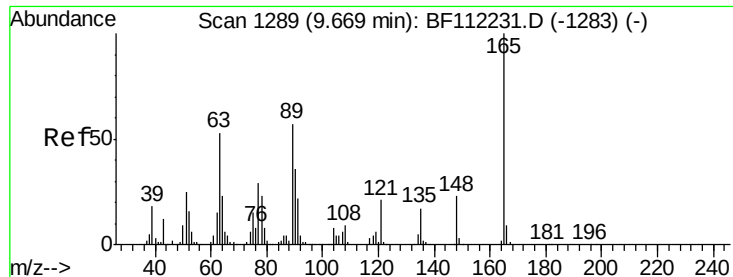
Tgt Ion:163 Resp: 60706  
 Ion Ratio Lower Upper  
 163 100  
 194 3.7 3.3 4.9  
 164 9.4 8.5 12.7



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: 4.174 ng

RT: 9.60 min Scan# 1277

Delta R.T. -0.07 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

Instrument :

BNA\_F

ClientSampleId :

25-10

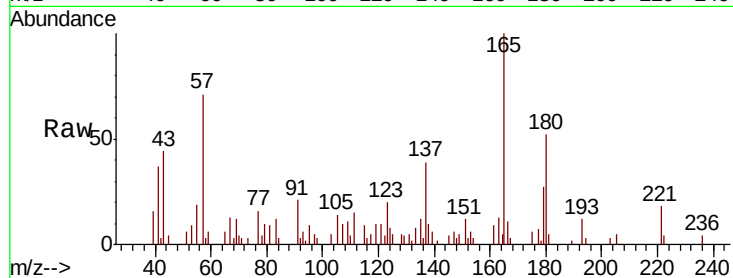
Tgt Ion:165 Resp: 10599

Ion Ratio Lower Upper

165 100

63 0.0 33.8 50.8#

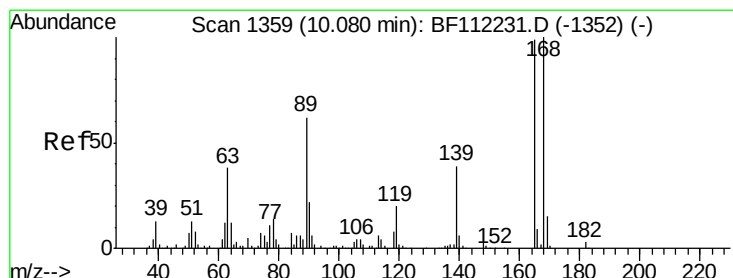
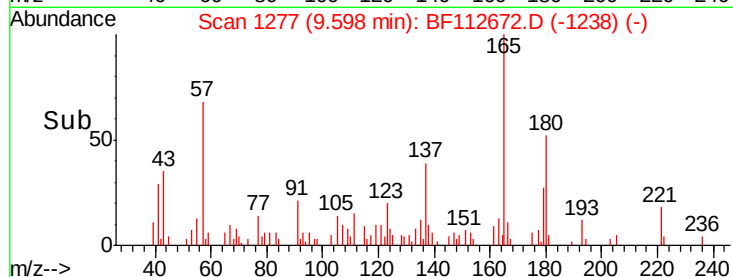
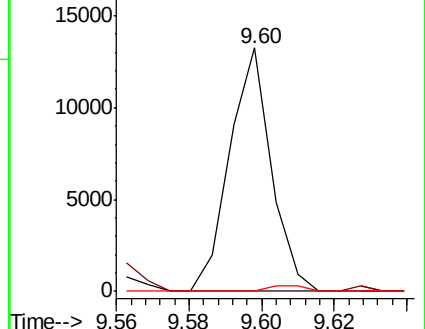
89 0.0 36.9 55.3#



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: 5.555 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.23 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

Tgt Ion:165 Resp: 17957

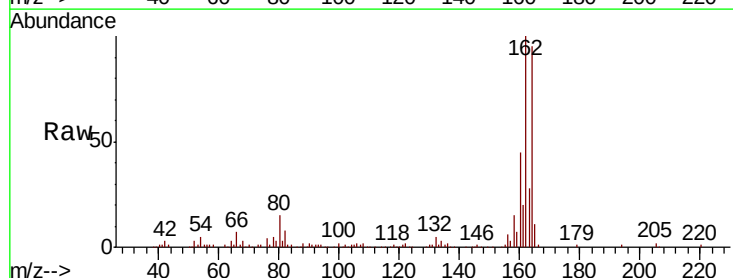
Ion Ratio Lower Upper

165 100

63 1.9 27.9 41.9#

89 2.2 47.9 71.9#

182 0.0 2.2 3.4#

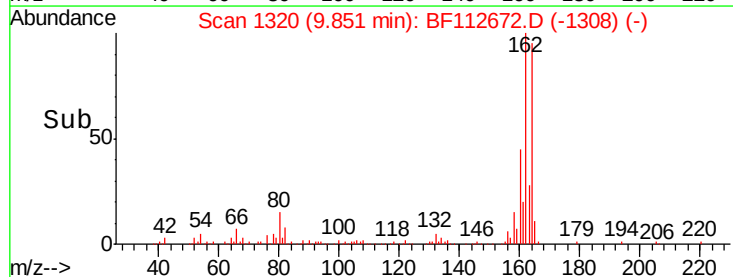
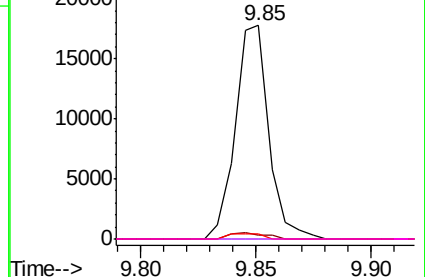


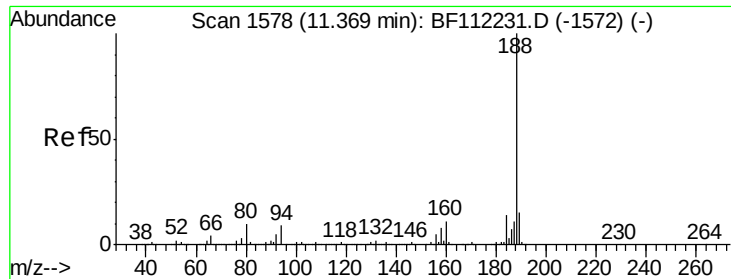
Abundance Ion 165.00 (164.70 to 165.70): E

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

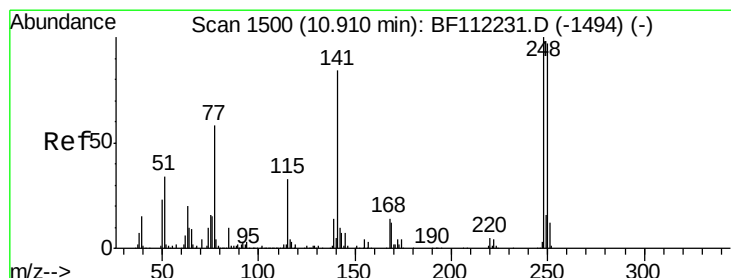
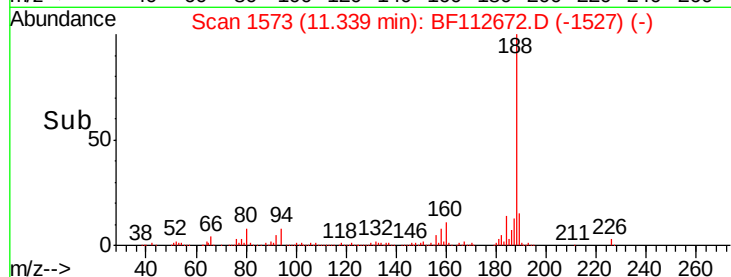
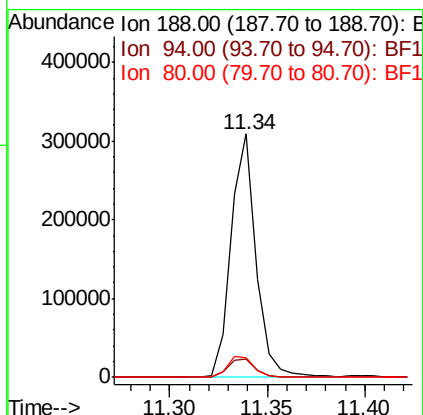
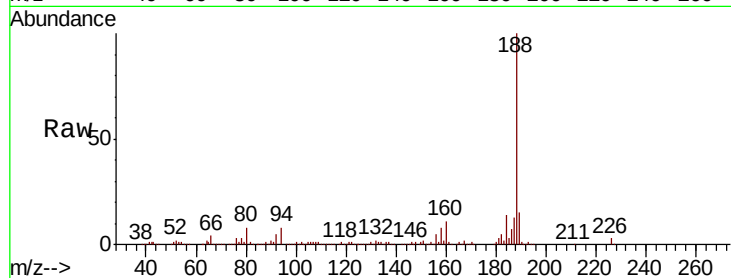




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.34 min Scan# 1573  
Delta R.T. -0.03 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

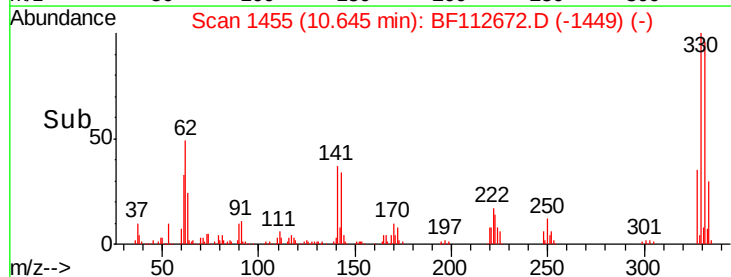
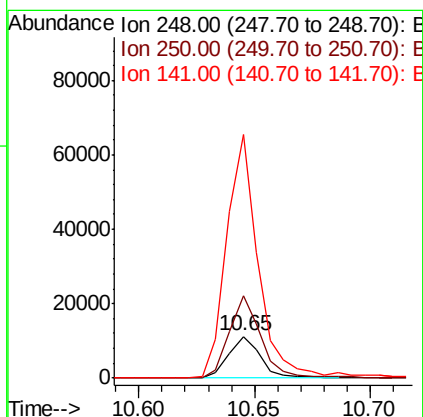
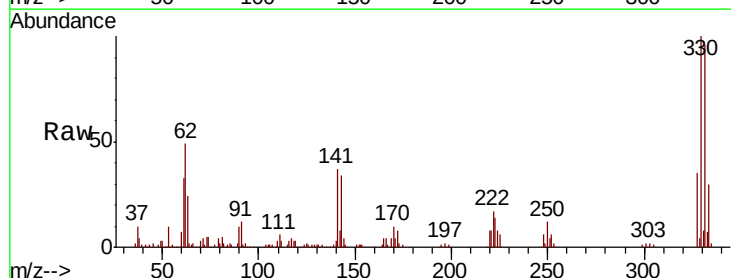
Instrument :  
BNA\_F  
ClientSampleId :  
25-10

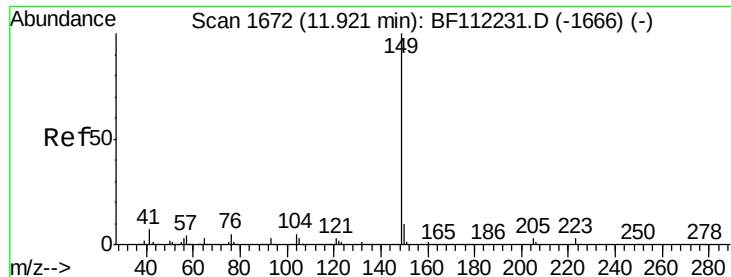
Tgt Ion:188 Resp: 274949  
Ion Ratio Lower Upper  
188 100  
94 7.5 8.2 12.2#  
80 8.3 8.9 13.3#



#67  
4-Bromophenyl-phenylether  
Concen: 3.325 ng  
RT: 10.65 min Scan# 1455  
Delta R.T. -0.26 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

Tgt Ion:248 Resp: 10752  
Ion Ratio Lower Upper  
248 100  
250 197.7 79.7 119.5#  
141 587.6 60.3 90.5#

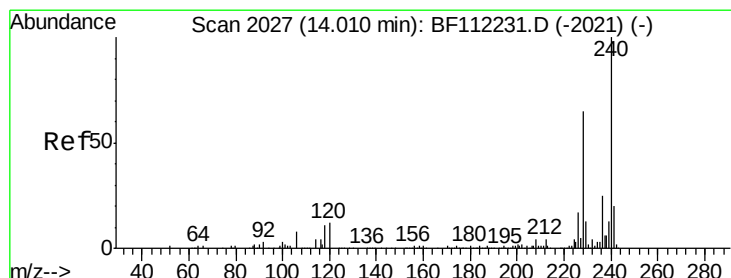
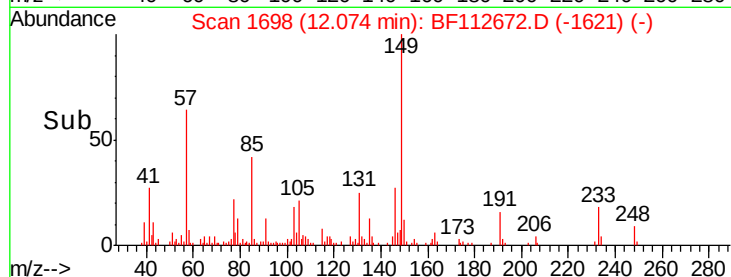
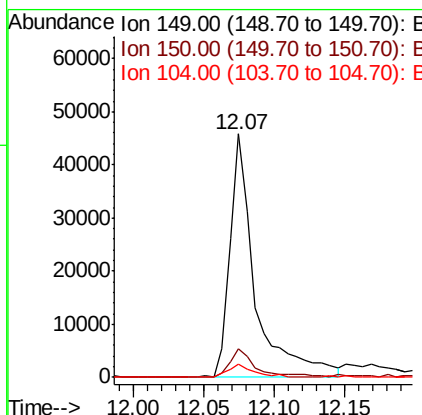
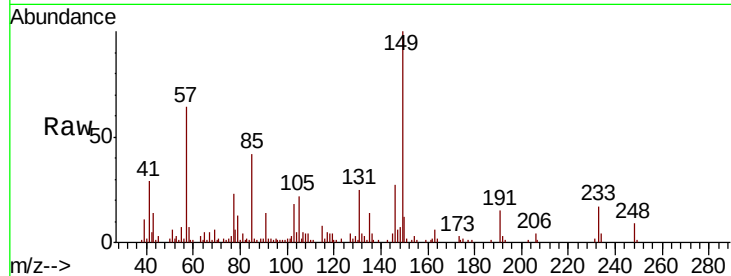




#74  
Di-n-butylphthalate  
Concen: 3.307 ng  
RT: 12.07 min Scan# 1698  
Delta R.T. 0.15 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

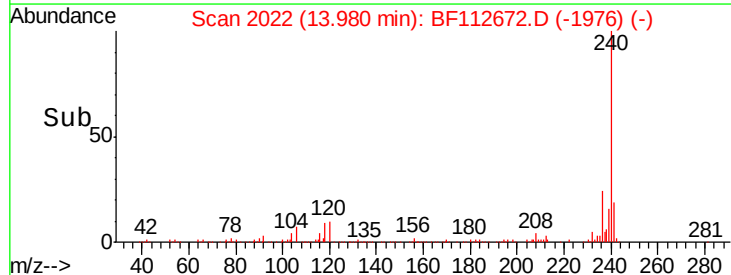
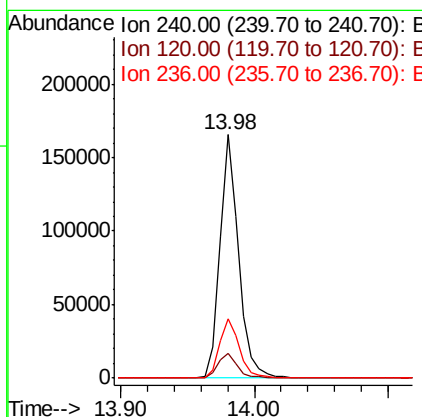
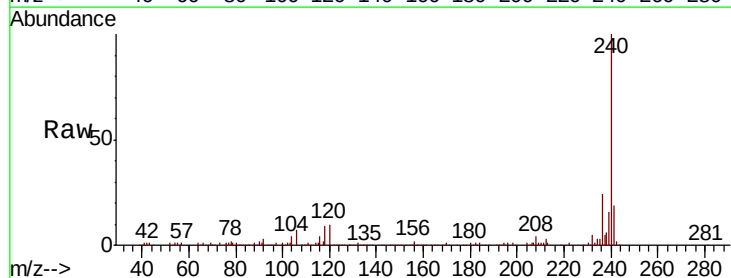
Instrument :  
BNA\_F  
ClientSampleId :  
25-10

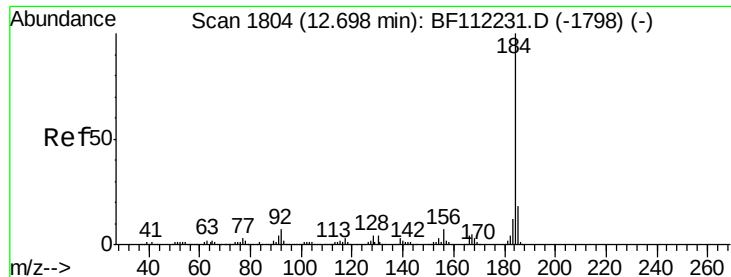
Tgt Ion:149 Resp: 57650  
Ion Ratio Lower Upper  
149 100  
150 11.8 8.1 12.1  
104 5.5 3.9 5.9



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.03 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

Tgt Ion:240 Resp: 163395  
Ion Ratio Lower Upper  
240 100  
120 10.3 9.0 13.6  
236 24.3 20.7 31.1





#77

Benzidine

Concen: 2.934 ng

RT: 12.92 min Scan# 1841

Delta R.T. 0.22 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

Instrument :

BNA\_F

ClientSampleId :

25-10

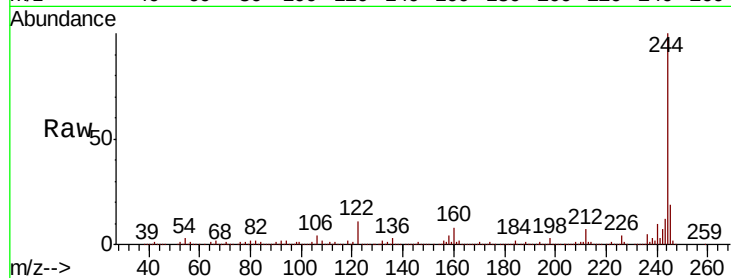
Tgt Ion:184 Resp: 13193

Ion Ratio Lower Upper

184 100

185 24.5 13.9 20.9#

183 9.7 10.0 15.0#

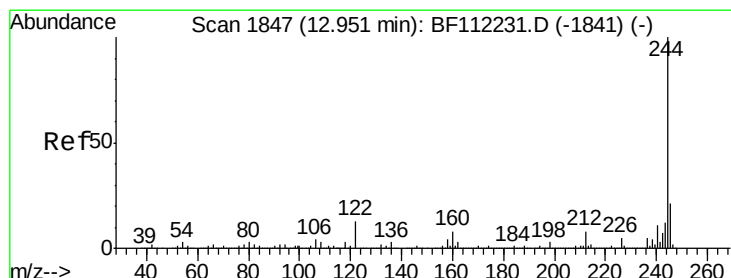
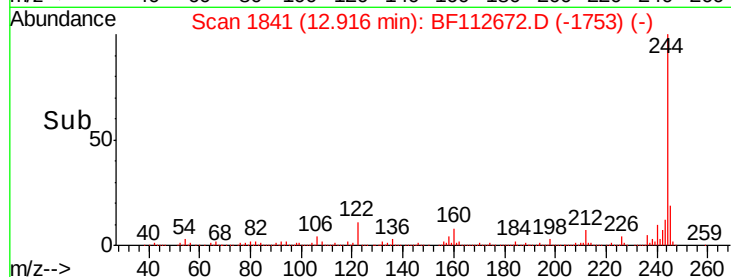
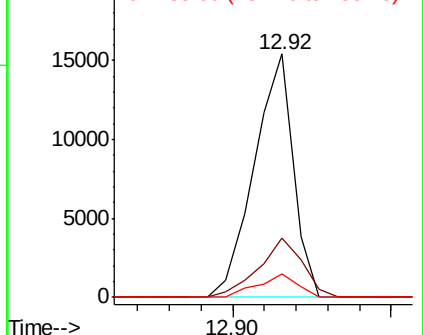


Abundance

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: 101.137 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.04 min

Lab File: BF112672.D

Acq: 22 Feb 2019 18:50

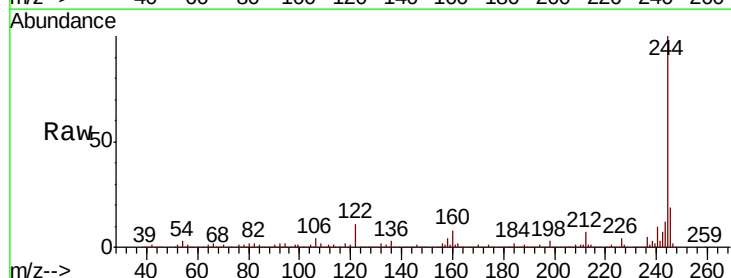
Tgt Ion:244 Resp: 877398

Ion Ratio Lower Upper

244 100

212 7.2 5.9 8.9

122 10.8 9.8 14.6

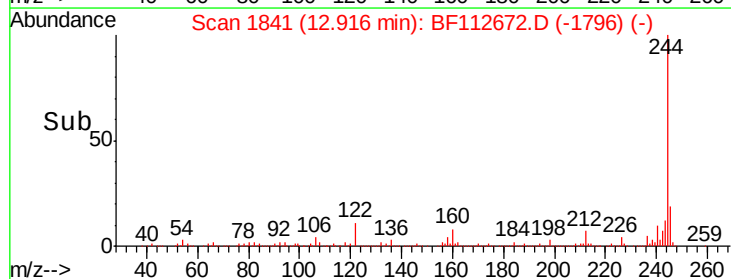
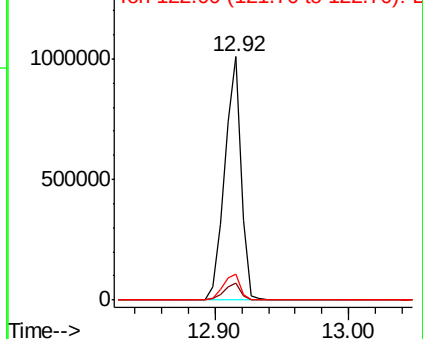


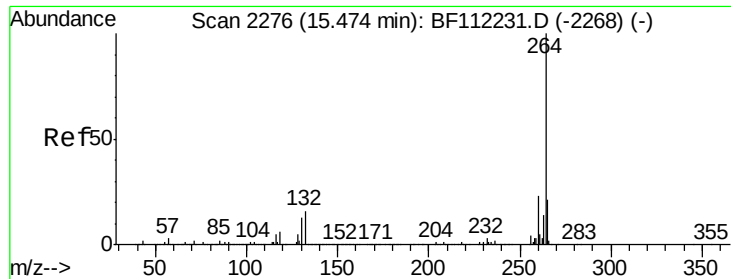
Abundance

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: 15.45 min Scan# 2272  
Delta R.T. -0.02 min  
Lab File: BF112672.D  
Acq: 22 Feb 2019 18:50

Instrument :  
BNA\_F  
ClientSampleId :  
25-10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.6  | 18.2  | 27.2  |
| 265     | 22.2  | 17.0  | 25.4  |

