

Data Path : U:\HPCHEM1\BNA F\DATA\BF010518\  
 Data File : BF101941.D  
 Acq On : 5 Jan 2018 20:23  
 Operator : SJ/JU  
 Sample : J1012-16  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Jan 05 21:40:46 2018  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 05 12:29:26 2018  
 Response via : Initial Calibration

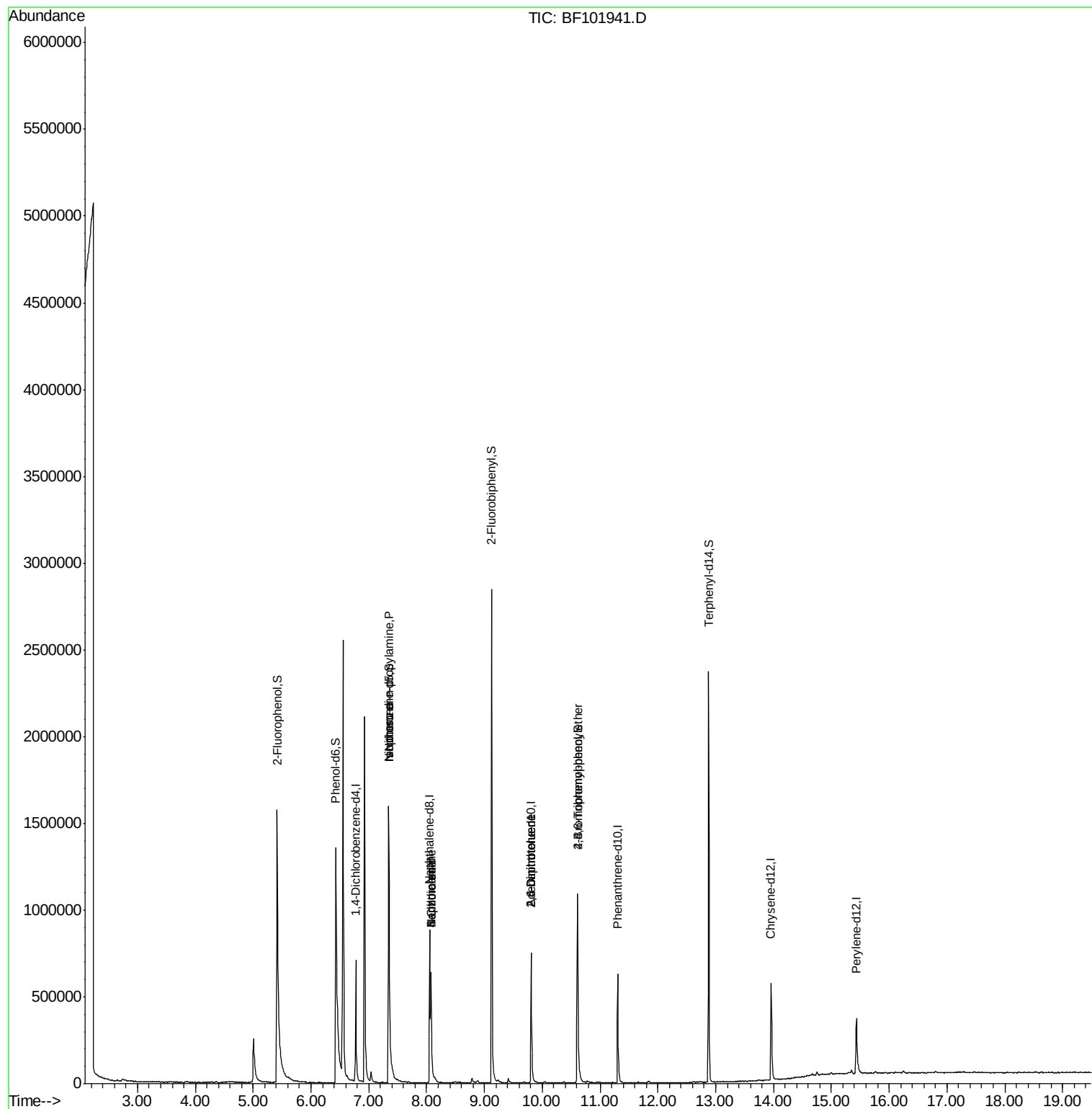
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.77  | 152  | 122547   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.05  | 136  | 457661   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.81  | 164  | 172845   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.30 | 188  | 273839   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.96 | 240  | 253180   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.43 | 264  | 205788   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.41  | 112  | 911535   | 110.80 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.43  | 99   | 1003231  | 97.98  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.35  | 82   | 732778   | 89.13  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.61 | 330  | 161901   | 97.21  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.12  | 172  | 1029600  | 92.40  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.88 | 244  | 780863   | 74.35  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.35  | 70   | 96740    | 14.387 | ng    | # 87     |
| 25) Isophorone                 | 7.35  | 82   | 732778   | 44.430 | ng    | # 64     |
| 31) Naphthalene                | 8.07  | 128  | 350069   | 15.194 | ng    | 100      |
| 32) Benzoic acid               | 8.07  | 122  | 594      | 8.072  | ng    | # 1      |
| 33) 4-Chloroaniline            | 8.07  | 127  | 45889    | 4.582  | ng    | # 34     |
| 50) 2,6-Dinitrotoluene         | 9.81  | 165  | 21876    | 7.742  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.81  | 165  | 21876    | 6.871  | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.61 | 248  | 10928    | 3.552  | ng    | # 1      |

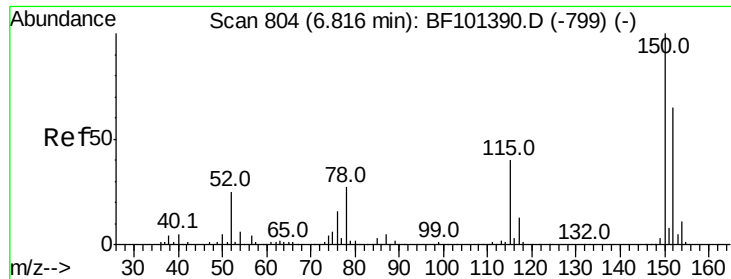
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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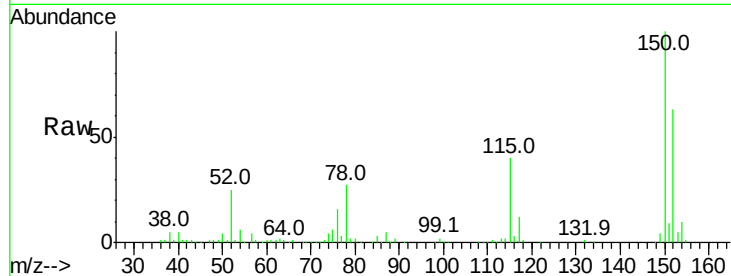


#1

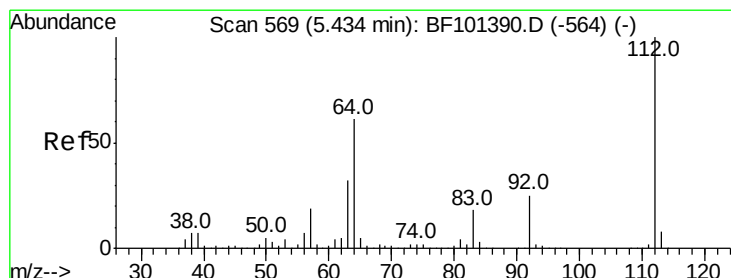
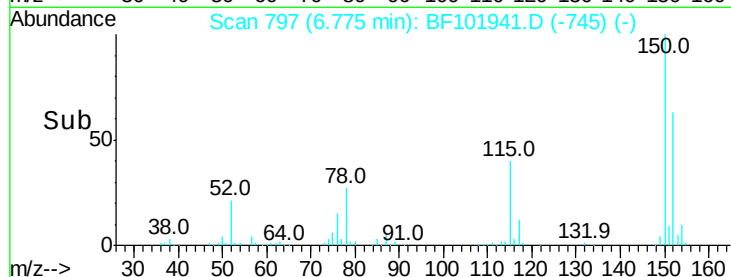
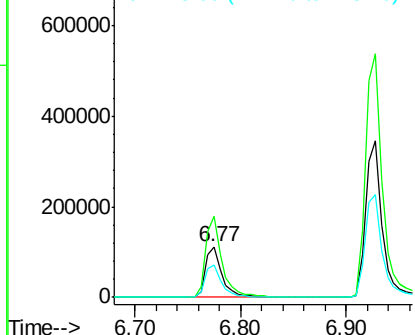
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.77 min Scan# 797  
Delta R.T. 0.01 min  
Lab File: BF101941.D  
Acq: 5 Jan 2018 20:23

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 122547  
Ion Ratio Lower Upper  
152 100  
150 158.3 124.6 186.8  
115 63.1 50.1 75.1



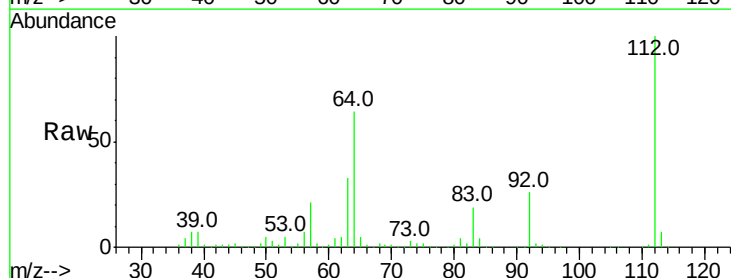
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



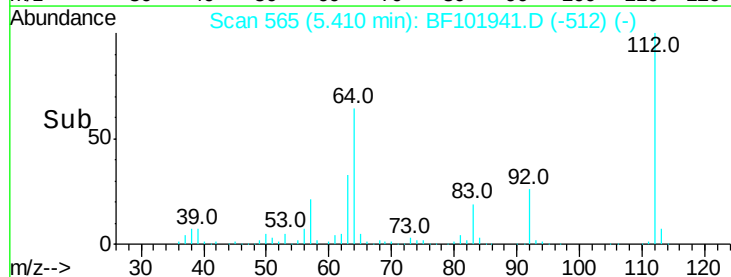
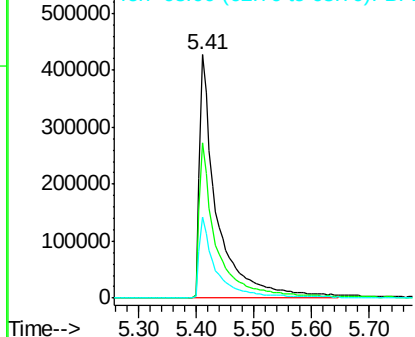
#5

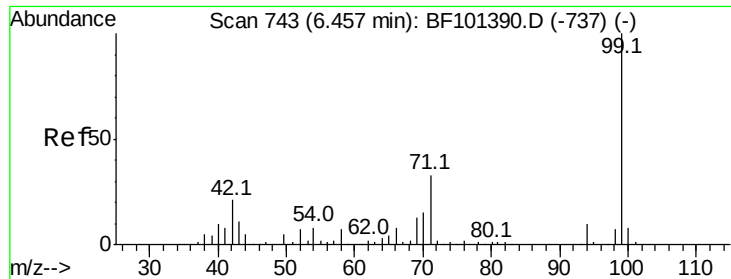
2-Fluorophenol  
Concen: 110.799 ng  
RT: 5.41 min Scan# 565  
Delta R.T. 0.01 min  
Lab File: BF101941.D  
Acq: 5 Jan 2018 20:23

Tgt Ion:112 Resp: 911535  
Ion Ratio Lower Upper  
112 100  
64 64.0 47.9 71.9  
63 33.4 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: 97.984 ng

RT: 6.43 min Scan# 738

Delta R.T. -0.00 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

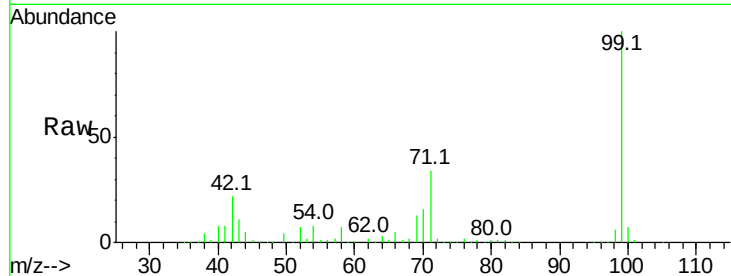
Tot Ion: 99 Resp: 1003231

Ion Ratio Lower Upper

99 100

42 21.9 14.5 21.7#

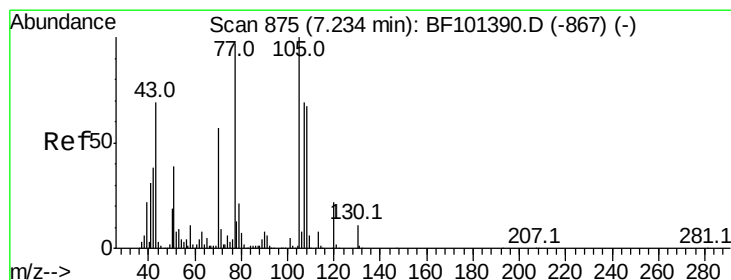
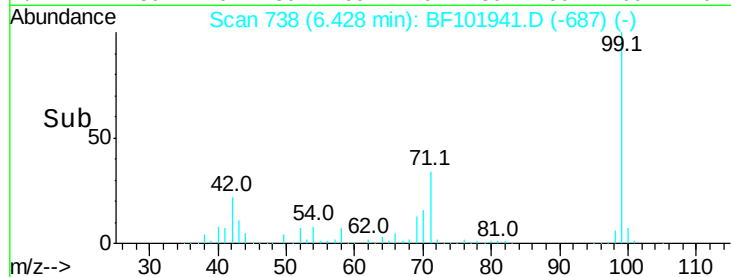
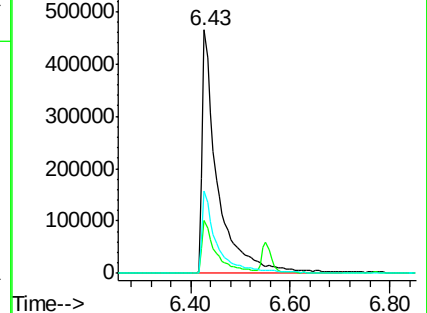
71 34.0 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 14.387 ng

RT: 7.35 min Scan# 894

Delta R.T. 0.15 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

Tgt Ion: 70 Resp: 96740

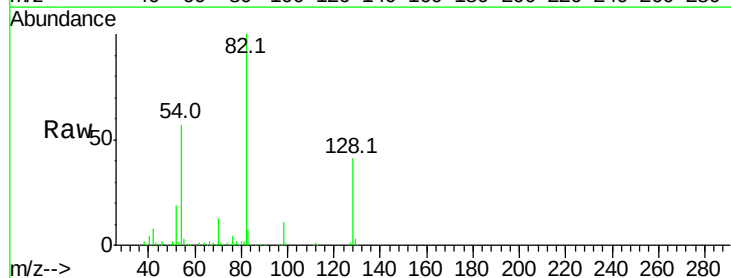
Ion Ratio Lower Upper

70 100

42 58.3 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

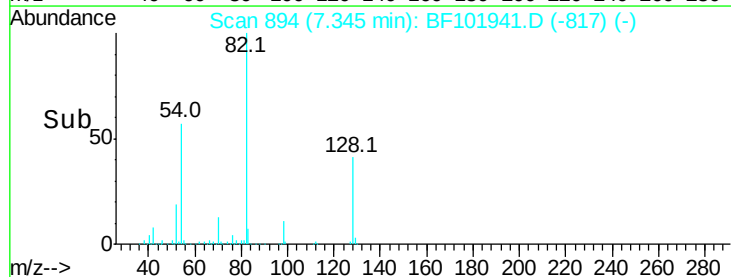
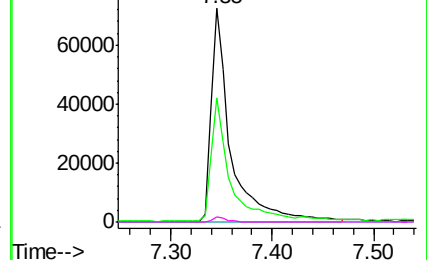


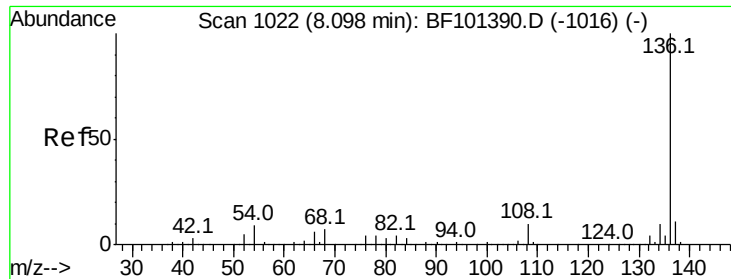
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

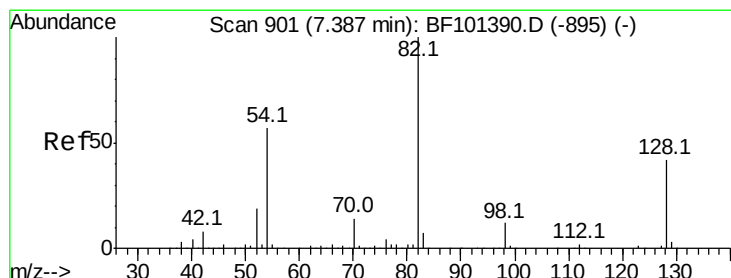
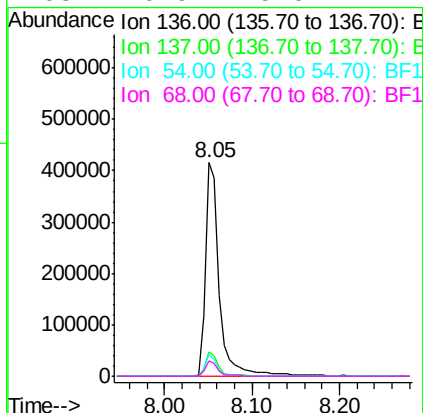
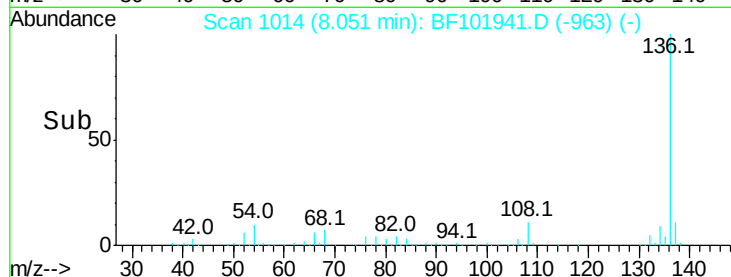
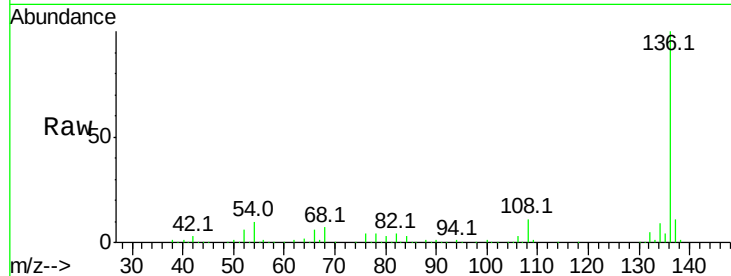




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.05 min Scan# 1014  
Delta R.T. -0.00 min  
Lab File: BF101941.D  
Acq: 5 Jan 2018 20:23

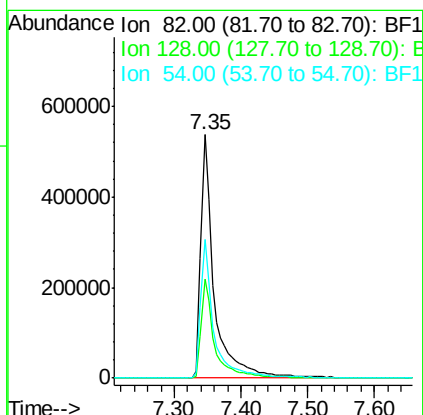
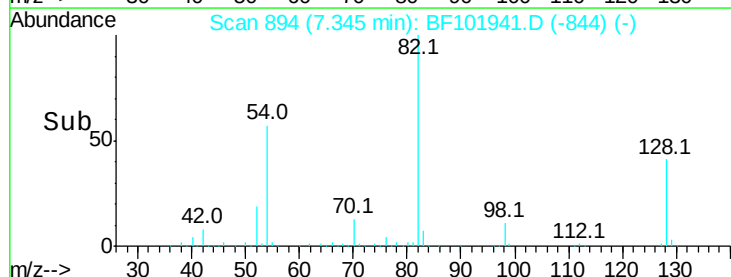
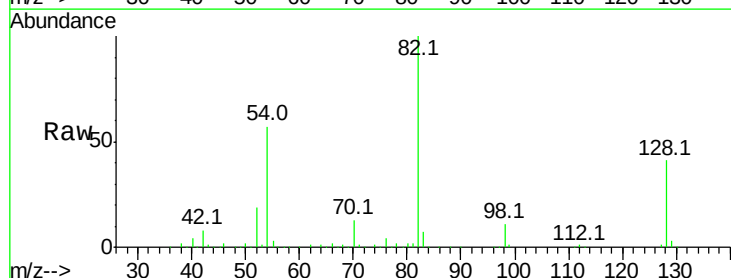
Instrument :  
BNA\_F  
ClientSampleId :

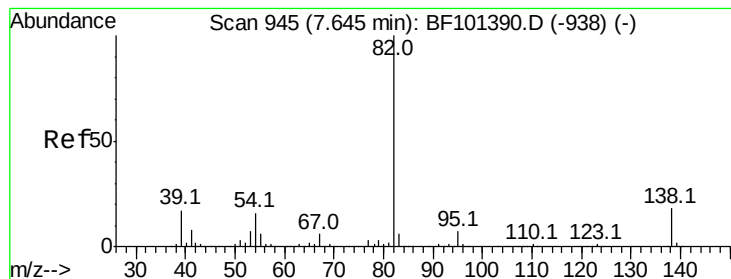
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 457661 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.4  | 8.9   | 13.3   |
| 54       | 10.2  | 6.6   | 9.8#   |
| 68       | 6.9   | 5.0   | 7.4    |



#23  
Nitrobenzene-d5  
Concen: 89.129 ng  
RT: 7.35 min Scan# 894  
Delta R.T. -0.01 min  
Lab File: BF101941.D  
Acq: 5 Jan 2018 20:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 732778 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.8  | 36.1  | 54.1   |
| 54       | 57.1  | 41.4  | 62.2   |





#25

Isophorone

Concen: 44.430 ng

RT: 7.35 min Scan# 894

Delta R.T. -0.25 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

Instrument :

BNA\_F

ClientSampled :

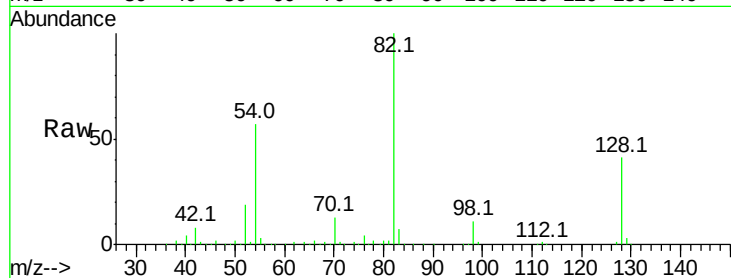
Tot Ion: 82 Resp: 732778

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

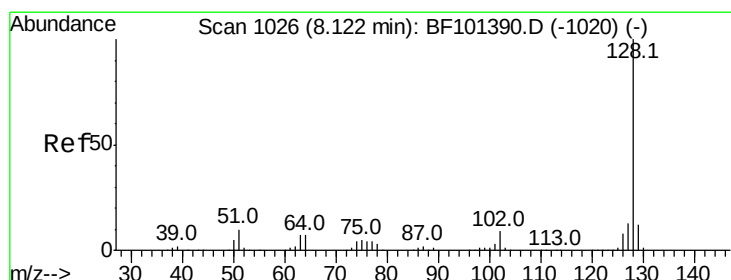
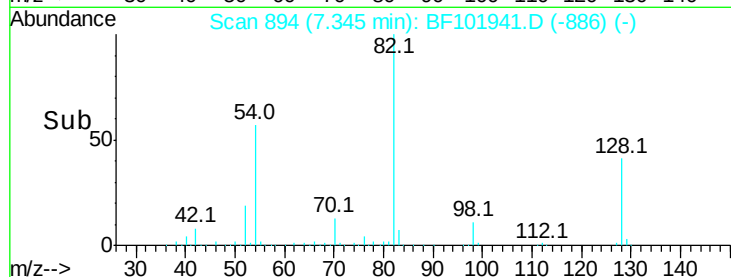
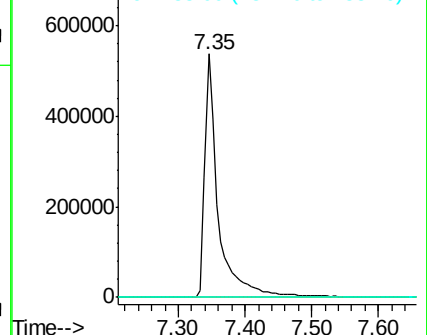
138 0.0 14.9 22.3#



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



#31

Naphthalene

Concen: 15.194 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

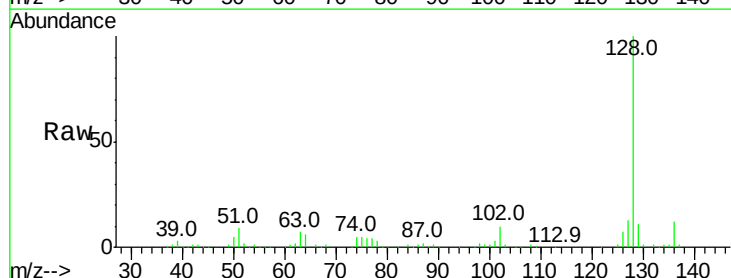
Tgt Ion: 128 Resp: 350069

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

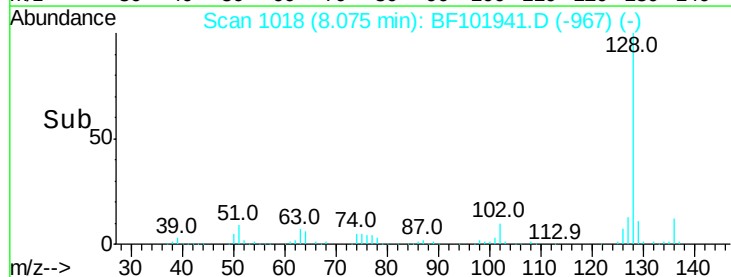
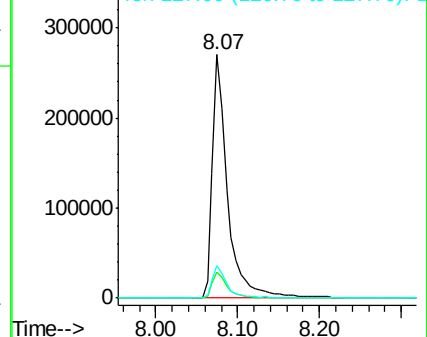
127 13.3 10.9 16.3

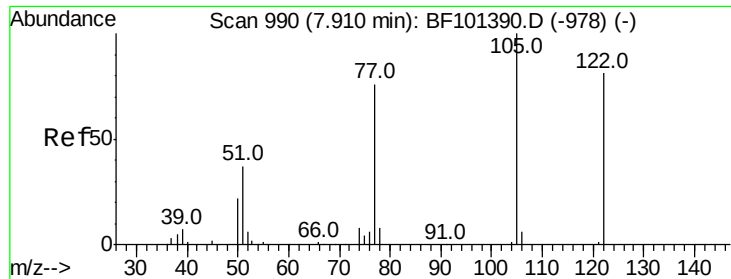


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#32

Benzoic acid

Concen: 8.072 ng

RT: 8.07 min Scan# 1018

Delta R.T. 0.17 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

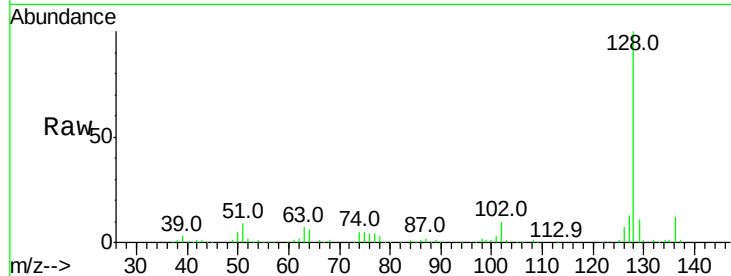
Tot Ion:122 Resp: 594

Ion Ratio Lower Upper

122 100

105 48.2 101.1 141.1#

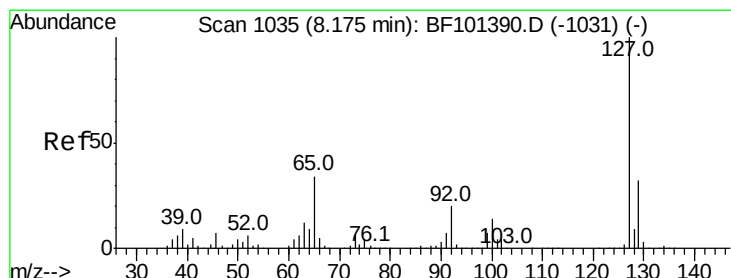
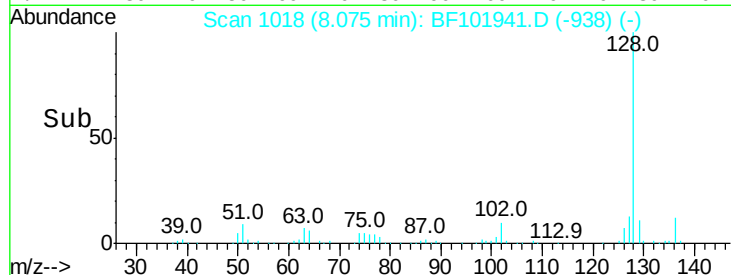
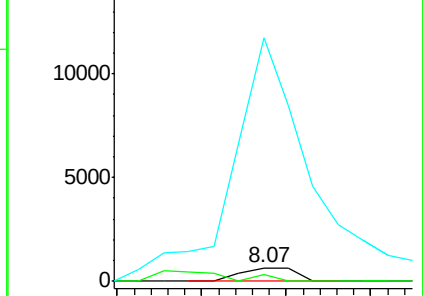
77 1793.9 70.7 110.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#33

4-Chloroaniline

Concen: 4.582 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.06 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

Tgt Ion:127 Resp: 45889

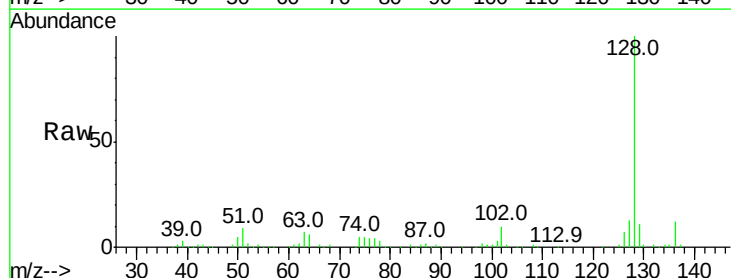
Ion Ratio Lower Upper

127 100

129 81.8 25.9 38.9#

65 0.0 25.0 37.4#

92 0.0 15.2 22.8#

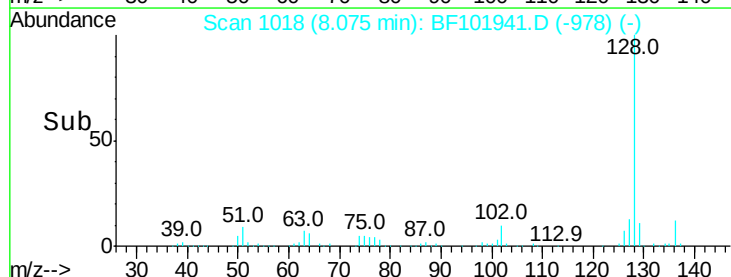
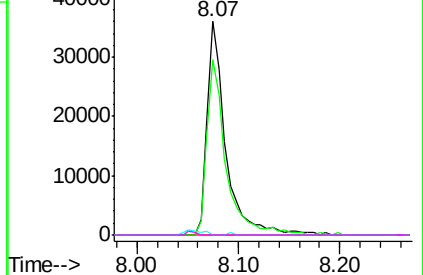


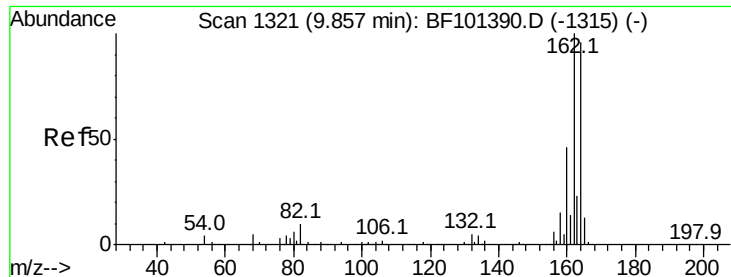
Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1

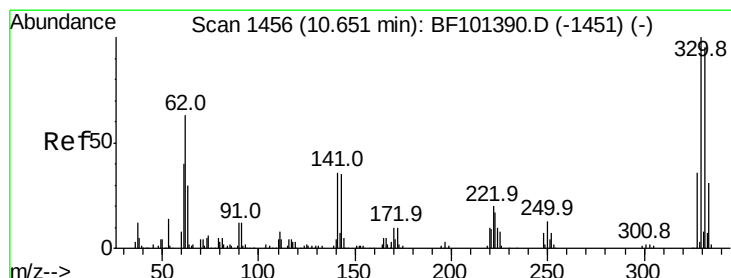
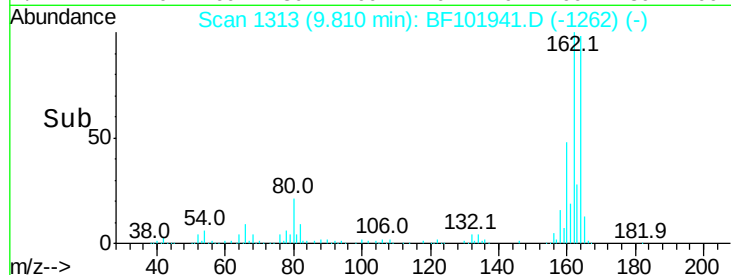
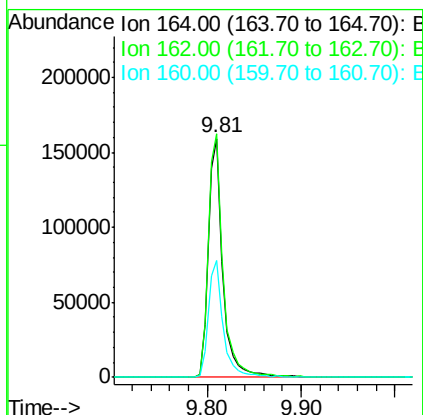
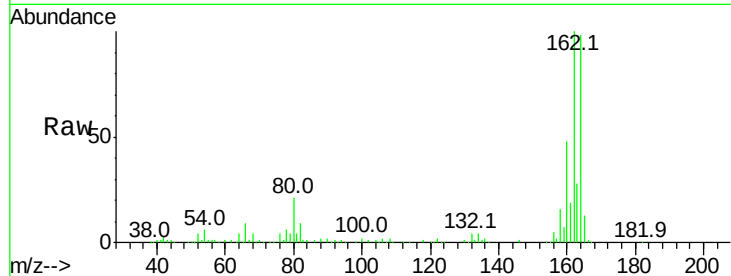




#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.00 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

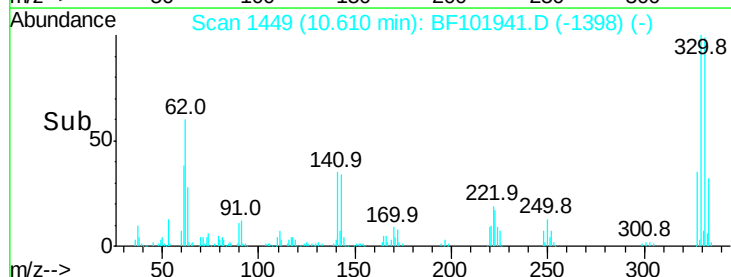
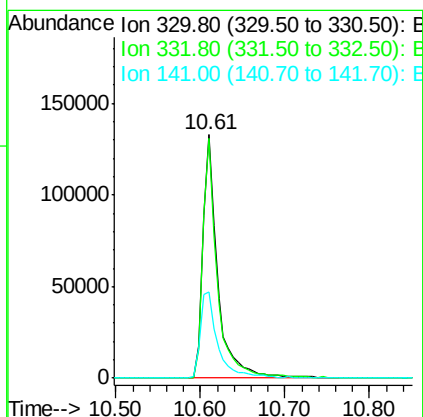
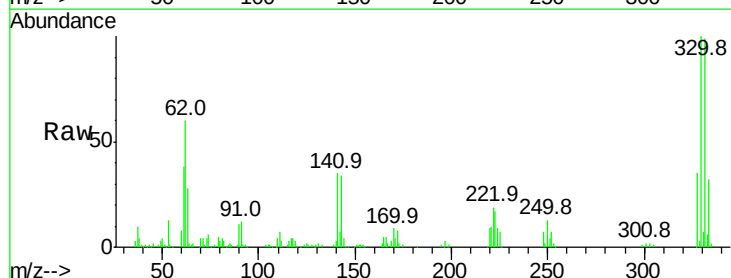
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 172845  
 Ion Ratio Lower Upper  
 164 100  
 162 102.0 86.1 129.1  
 160 48.9 38.3 57.5

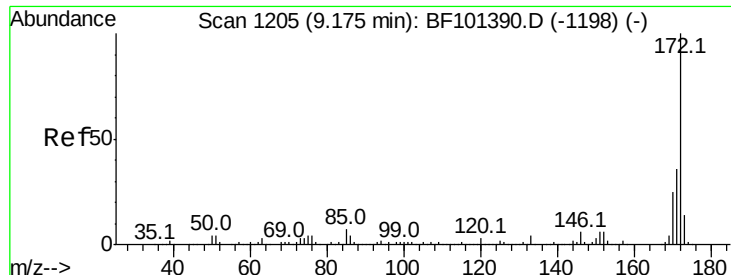


#41  
 2,4,6-Tribromophenol  
 Concen: 97.209 ng  
 RT: 10.61 min Scan# 1449  
 Delta R.T. -0.00 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Tgt Ion:330 Resp: 161901  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 41.4 29.9 44.9





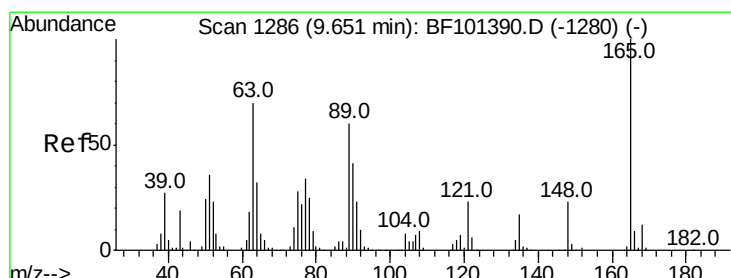
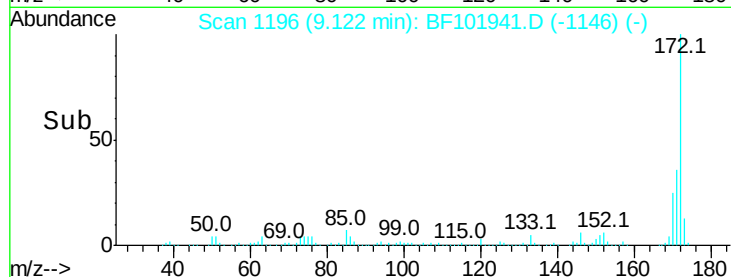
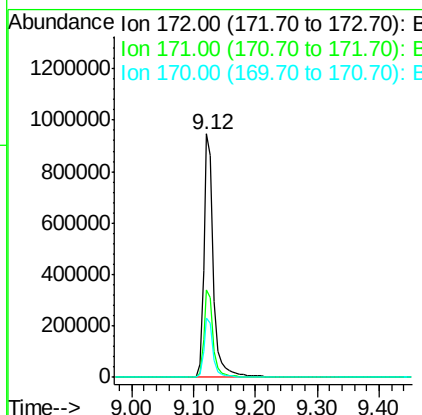
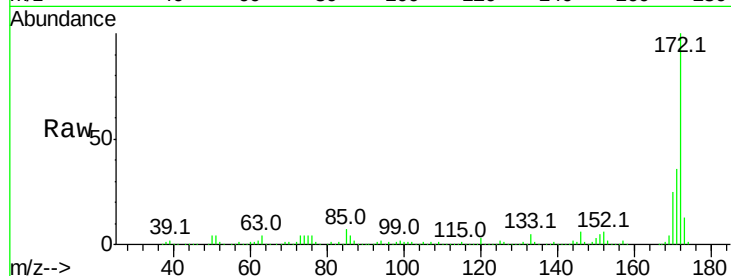


#44  
 2-Fluorobiphenyl  
 Concen: 92.404 ng  
 RT: 9.12 min Scan# 1196  
 Delta R.T. -0.01 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:172 Resp: 1029600  

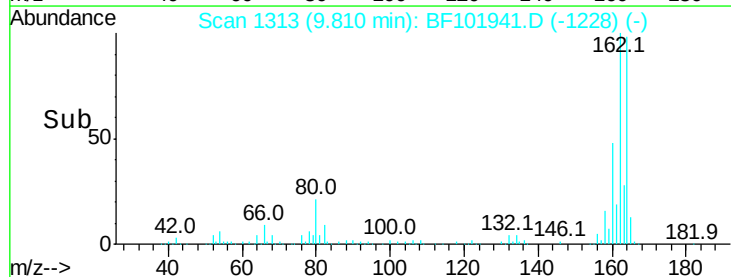
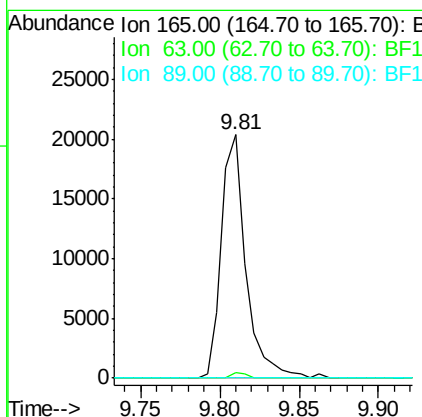
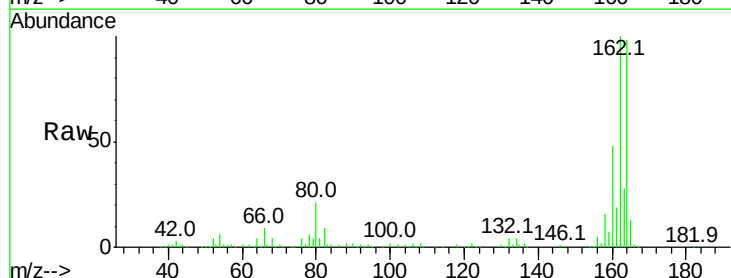
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.1  | 29.7  | 44.5  |
| 170 | 24.6  | 19.6  | 29.4  |

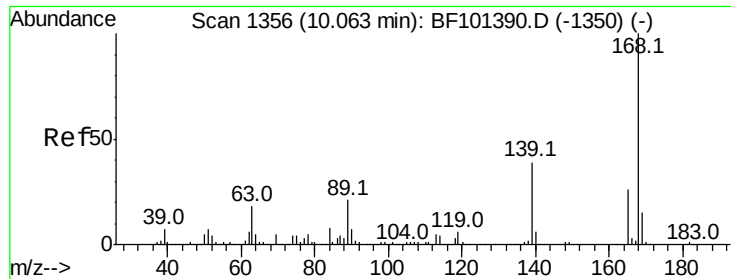


#50  
 2,6-Dinitrotoluene  
 Concen: 7.742 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. 0.20 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Tgt Ion:165 Resp: 21876  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 165 | 100   |       |       |
| 63  | 2.1   | 44.7  | 67.1# |
| 89  | 0.0   | 44.0  | 66.0# |

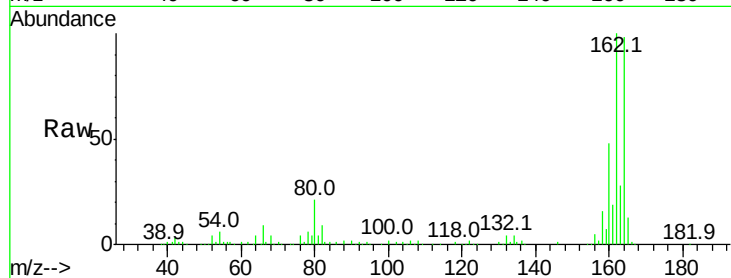




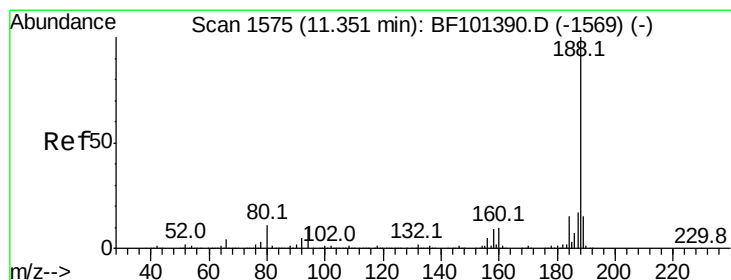
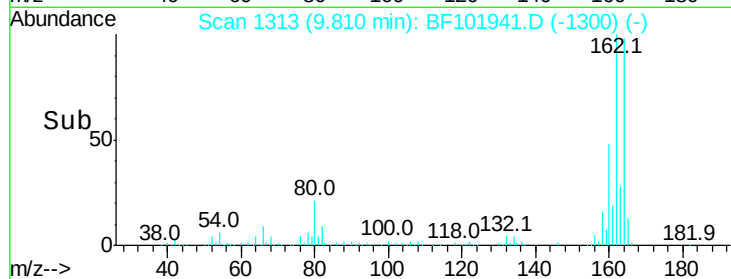
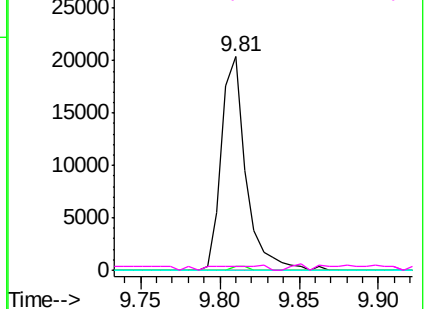
#56  
 2,4-Dinitrotoluene  
 Concen: 6.871 ng  
 RT: 9.81 min Scan# 1313  
 Delta R.T. -0.22 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:165 Resp: 21876  
 Ion Ratio Lower Upper  
 165 100  
 63 2.1 36.4 54.6#  
 89 0.0 57.8 86.6#  
 182 1.8 1.6 2.4

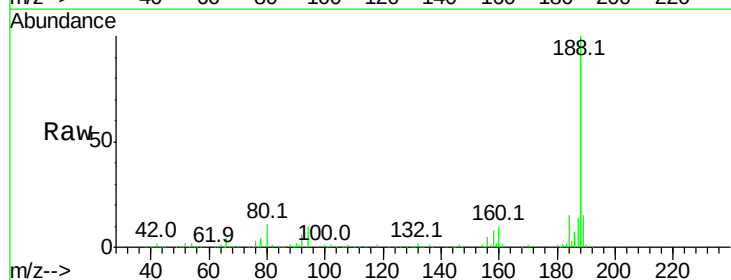


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

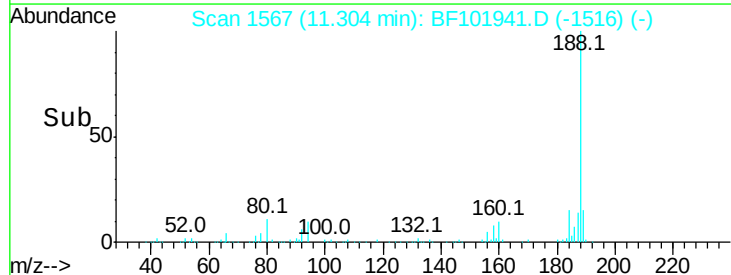
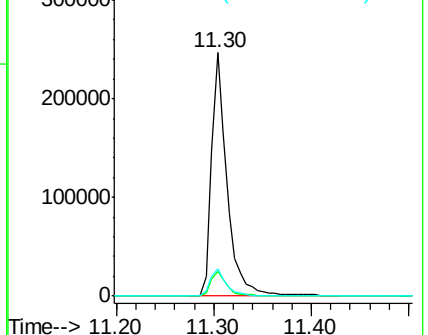


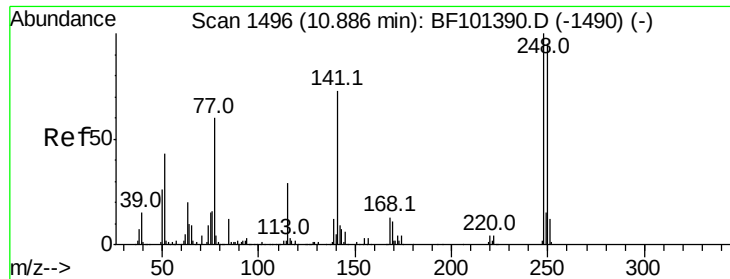
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.30 min Scan# 1567  
 Delta R.T. -0.00 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Tgt Ion:188 Resp: 273839  
 Ion Ratio Lower Upper  
 188 100  
 94 10.2 8.5 12.7  
 80 11.4 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

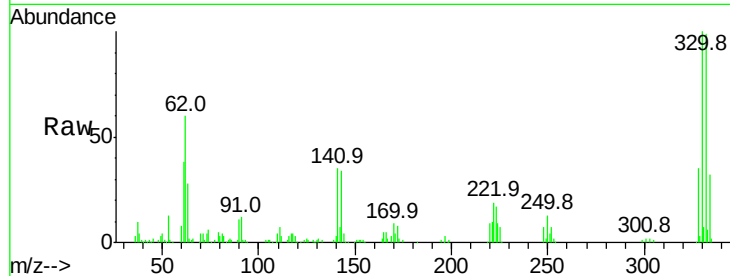




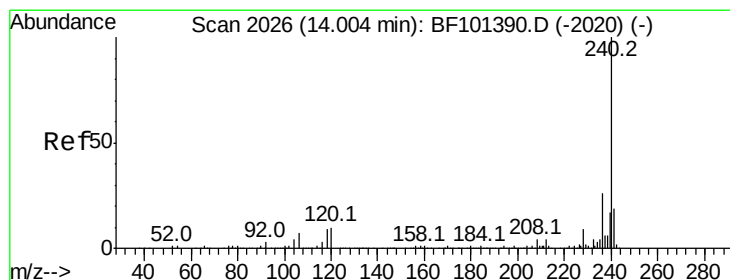
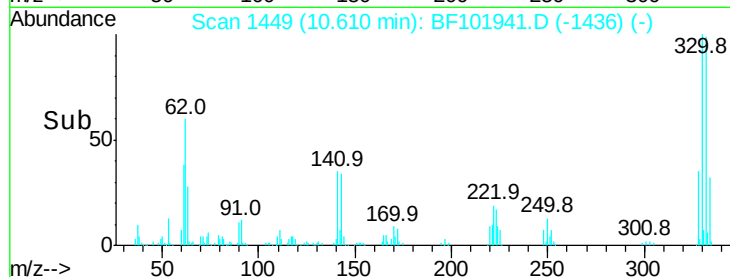
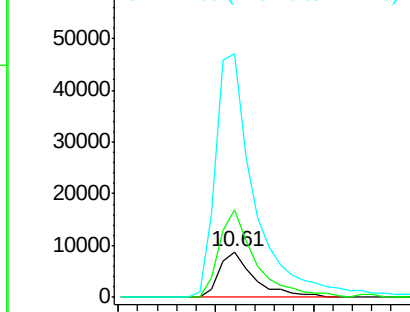
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.552 ng  
 RT: 10.61 min Scan# 1449  
 Delta R.T. -0.22 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:248 Resp: 10928  
 Ion Ratio Lower Upper  
 248 100  
 250 191.0 76.9 115.3#  
 141 531.2 74.4 111.6#

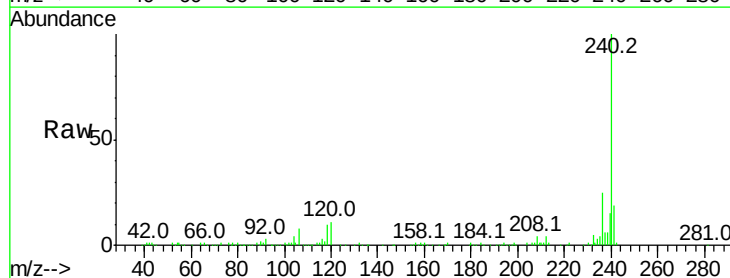


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E

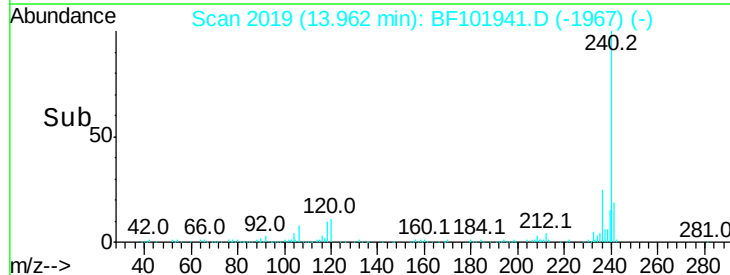
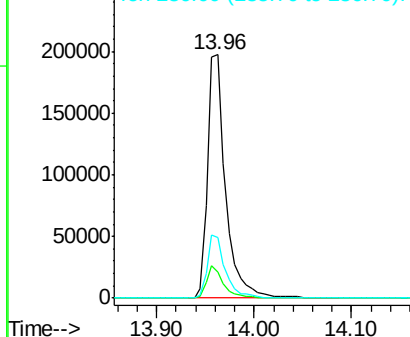


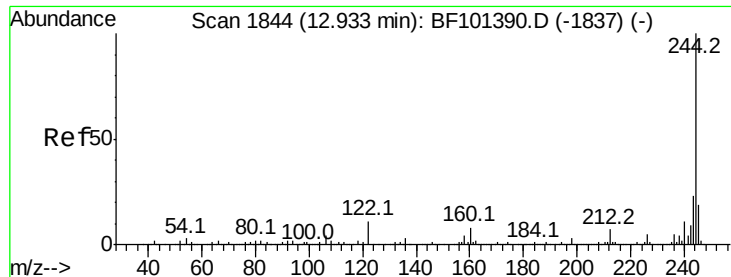
#75  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 13.96 min Scan# 2019  
 Delta R.T. 0.01 min  
 Lab File: BF101941.D  
 Acq: 5 Jan 2018 20:23

Tgt Ion:240 Resp: 253180  
 Ion Ratio Lower Upper  
 240 100  
 120 10.9 9.5 14.3  
 236 25.1 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

Terphenyl-d14

Concen: 74.353 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.00 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

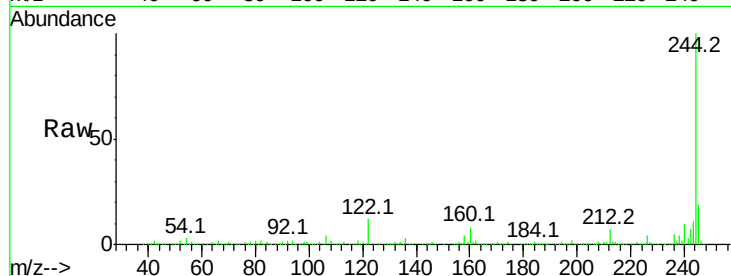
Tot Ion:244 Resp: 780863

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

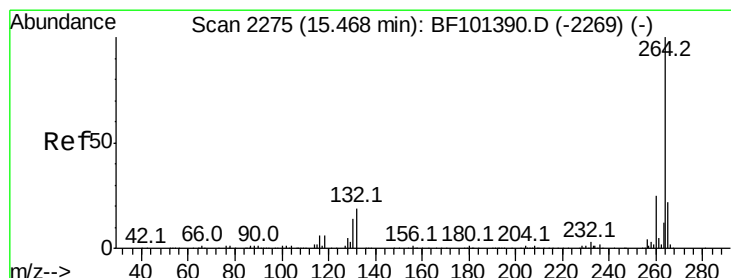
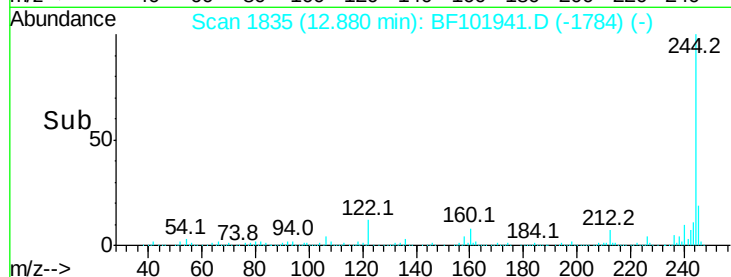
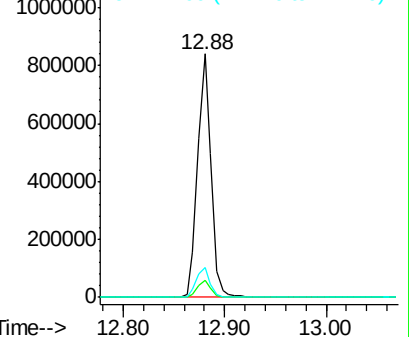
122 12.1 11.0 16.4



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



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.43 min Scan# 2269

Delta R.T. 0.01 min

Lab File: BF101941.D

Acq: 5 Jan 2018 20:23

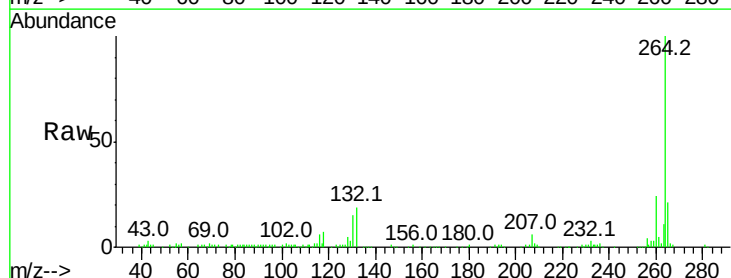
Tgt Ion:264 Resp: 205788

Ion Ratio Lower Upper

264 100

260 24.2 19.2 28.8

265 21.0 17.5 26.3



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

