

Data Path : Z:\HPCHEM1\BNA F\DATA\BF122117\  
 Data File : BF101628.D  
 Acq On : 22 Dec 2017 2:14  
 Operator : SJ/JU  
 Sample : I6971-18  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 22 02:46:18 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 20 14:25:04 2017  
 Response via : Initial Calibration

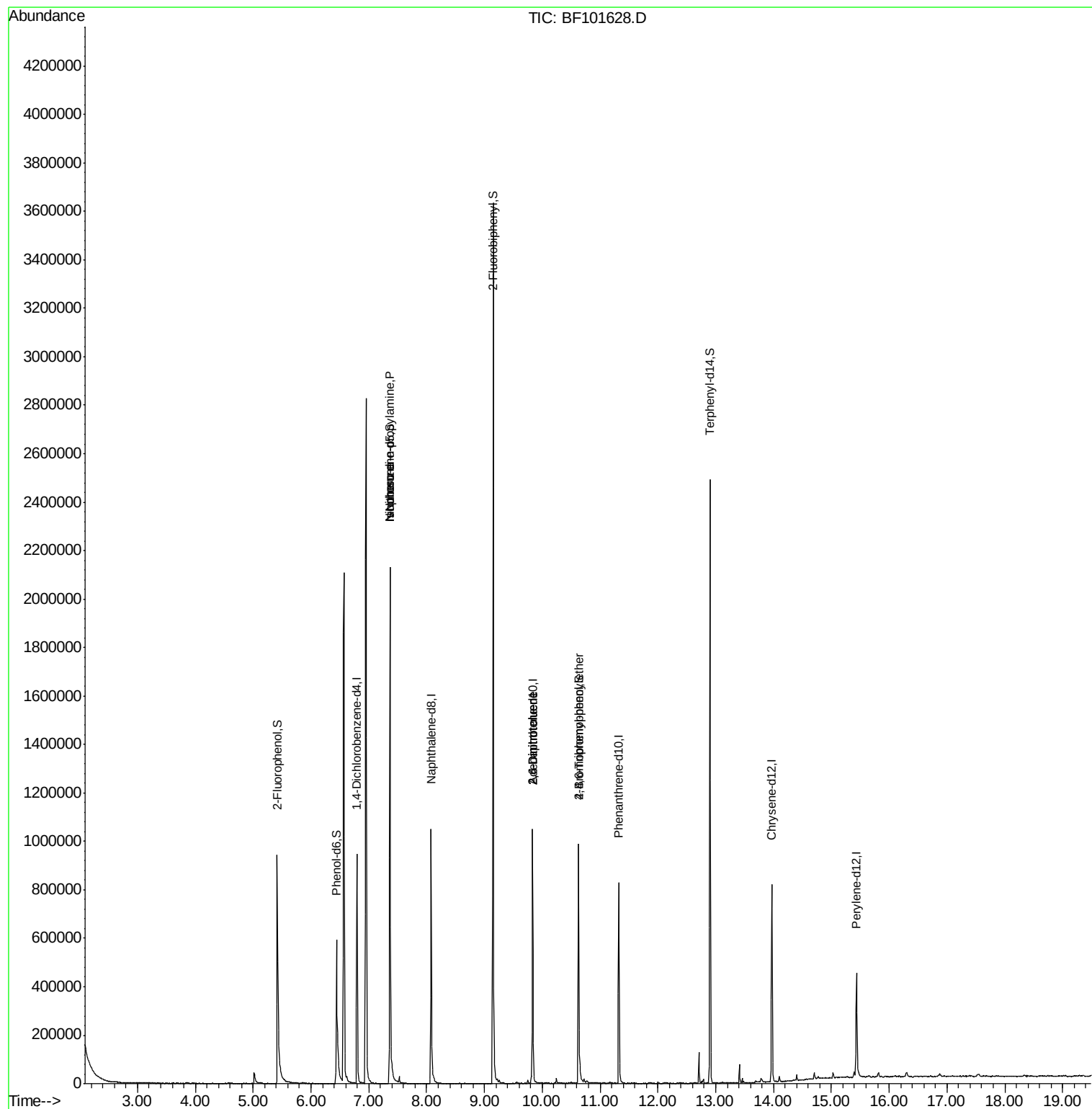
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 148543   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 558422   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.83  | 164  | 216790   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.32 | 188  | 317976   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.97 | 240  | 303627   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.43 | 264  | 237571   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 415060   | 41.62  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.44  | 99   | 317148   | 25.55  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 817049   | 81.45  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.63 | 330  | 130541   | 62.49  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.15  | 172  | 1251773  | 89.57  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.90 | 244  | 835072   | 66.30  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 108784   | 13.347 | ng    | # 81     |
| 25) Isophorone                 | 7.37  | 82   | 817049   | 40.600 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.83  | 165  | 26338    | 7.431  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.83  | 165  | 26338    | 6.596  | ng    | # 23     |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 8370     | 2.343  | ng    | # 1      |

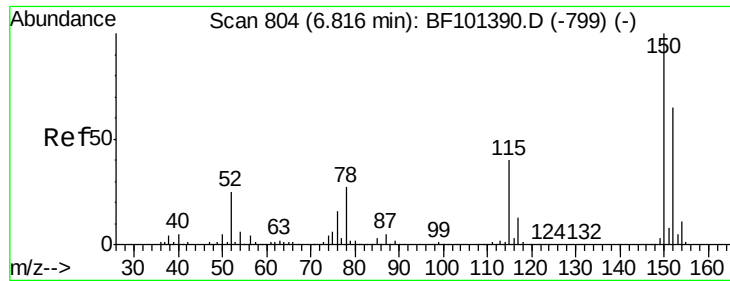
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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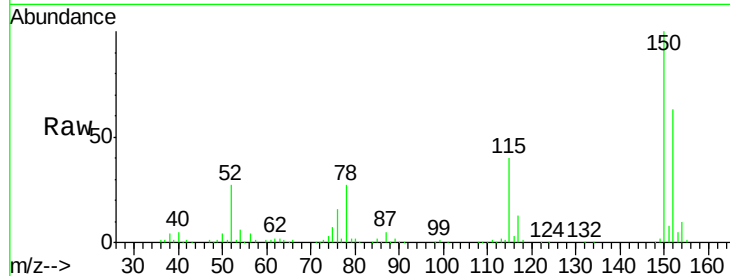


#1

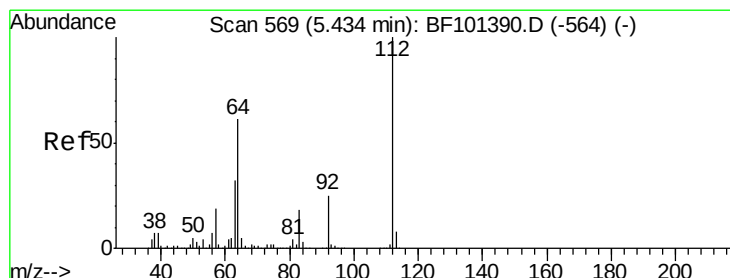
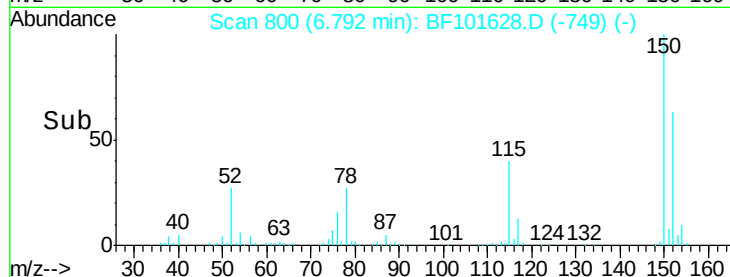
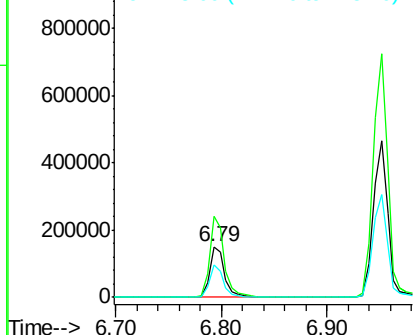
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 800  
Delta R.T. 0.00 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:152 Resp: 148543  
Ion Ratio Lower Upper  
152 100  
150 159.1 124.6 186.8  
115 64.2 50.1 75.1



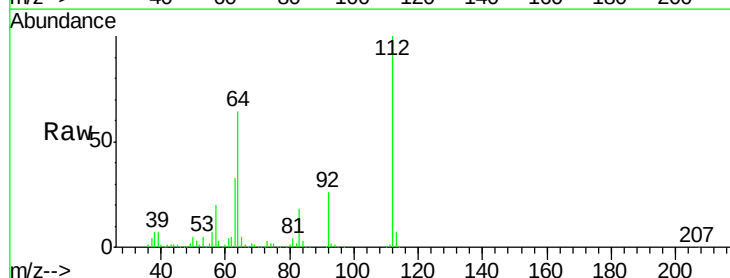
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



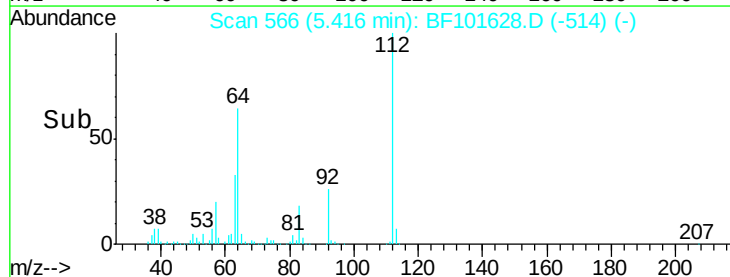
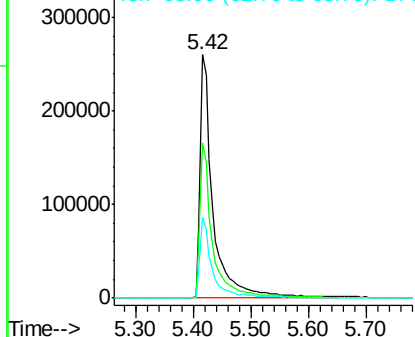
#5

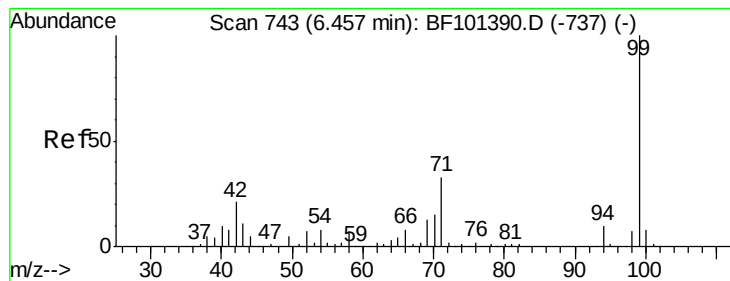
2-Fluorophenol  
Concen: 41.622 ng  
RT: 5.42 min Scan# 566  
Delta R.T. 0.01 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

Tgt Ion:112 Resp: 415060  
Ion Ratio Lower Upper  
112 100  
64 63.6 47.9 71.9  
63 33.3 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: 25.554 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.00 min

Lab File: BF101628.D

Acq: 22 Dec 2017 2:14

Instrument :

BNA\_F

ClientSampled :

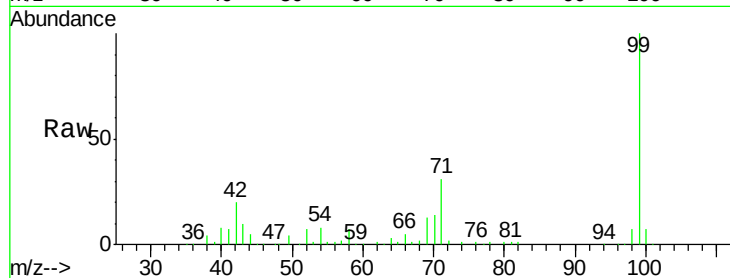
Tot Ion: 99 Resp: 317148

Ion Ratio Lower Upper

99 100

42 19.9 14.5 21.7

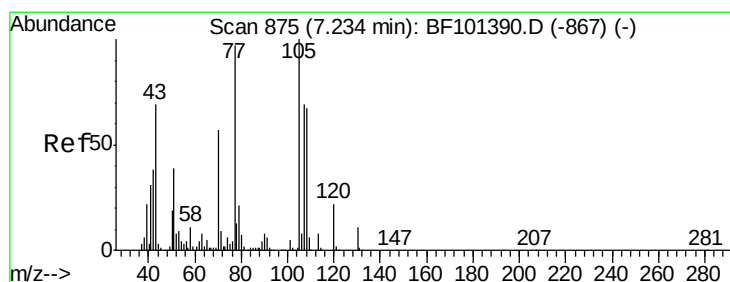
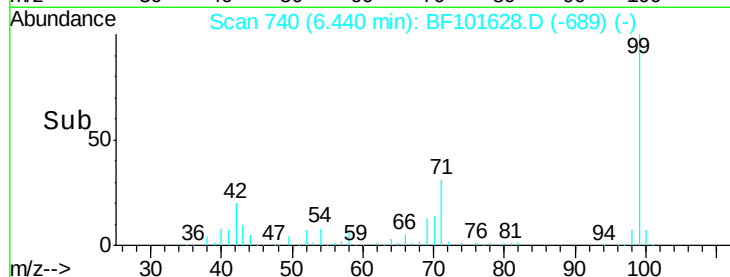
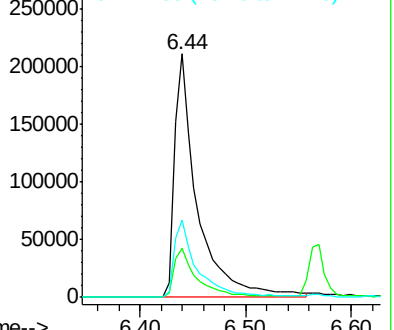
71 31.5 25.4 38.0



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: 13.347 ng

RT: 7.37 min Scan# 898

Delta R.T. 0.16 min

Lab File: BF101628.D

Acq: 22 Dec 2017 2:14

Tgt Ion: 70 Resp: 108784

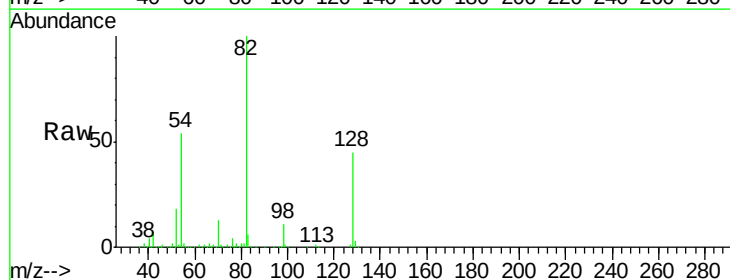
Ion Ratio Lower Upper

70 100

42 51.9 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

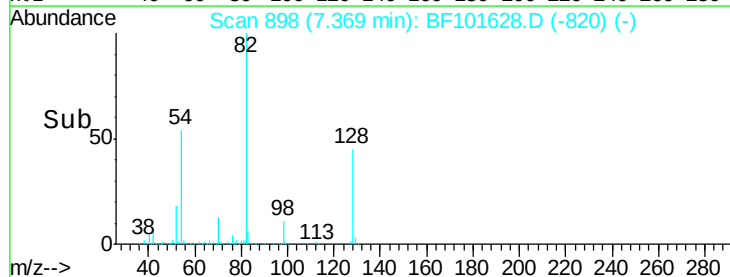
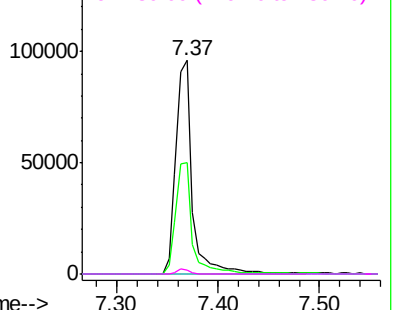


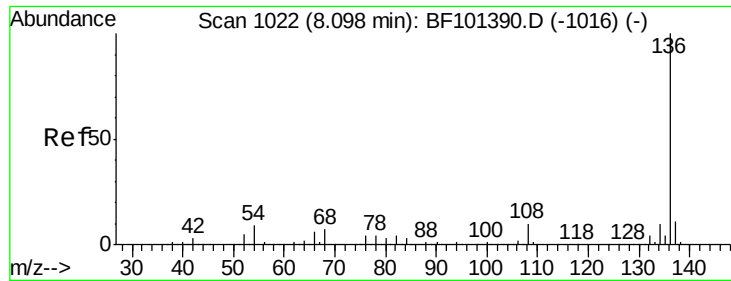
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

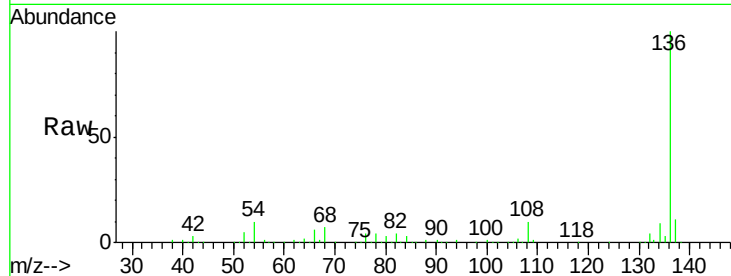




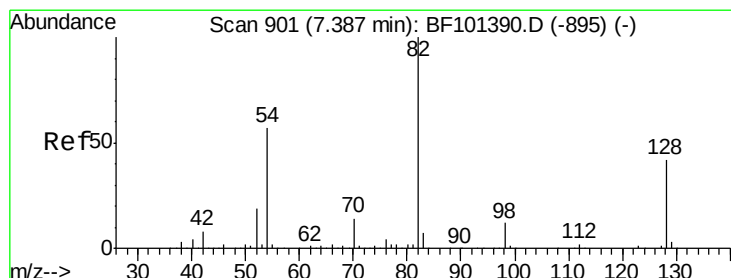
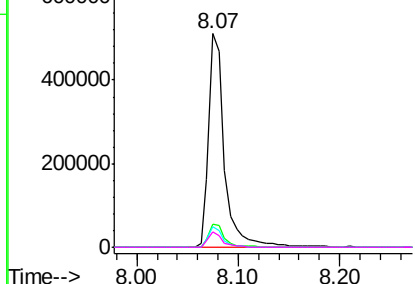
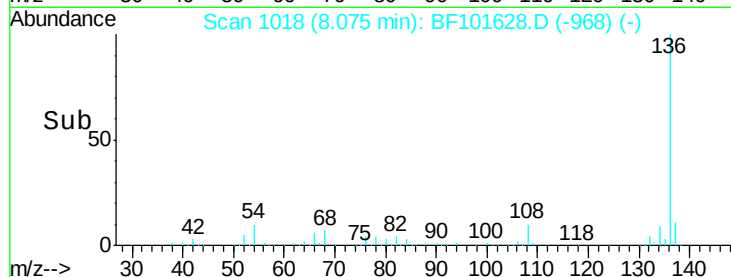
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. -0.01 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 558422   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 8.9 13.3 |
| 54          | 9.8   | 6.6 9.8  |
| 68          | 7.0   | 5.0 7.4  |

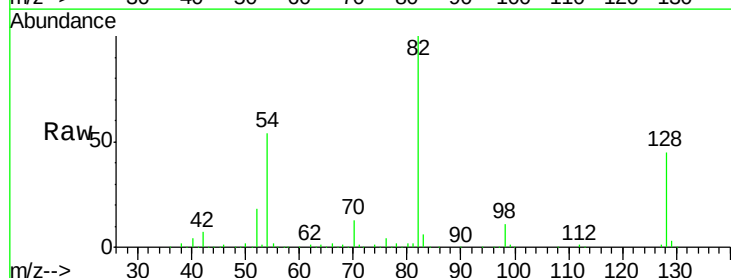


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

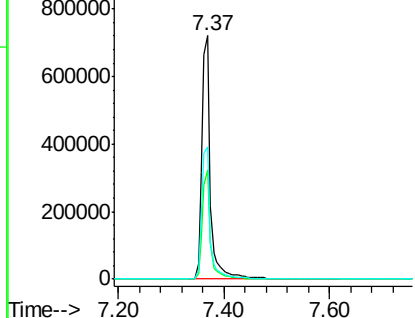
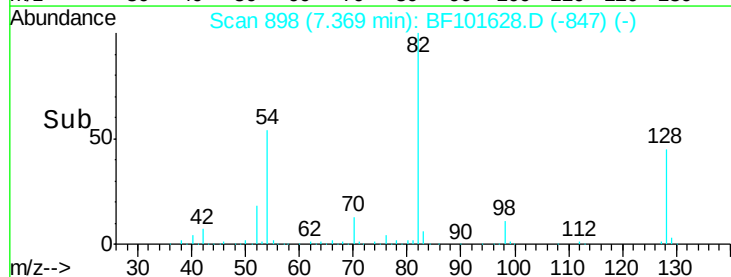


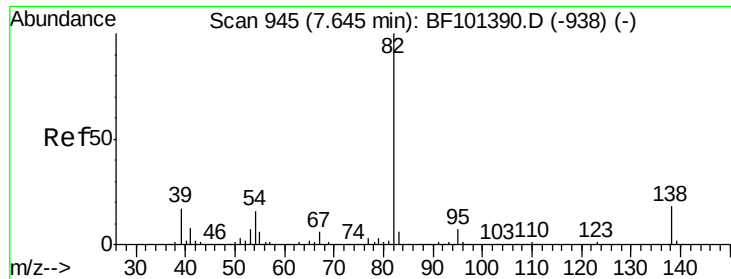
#23  
Nitrobenzene-d5  
Concen: 81.447 ng  
RT: 7.37 min Scan# 898  
Delta R.T. 0.00 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 817049    |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 45.0  | 36.1 54.1 |
| 54          | 54.2  | 41.4 62.2 |



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

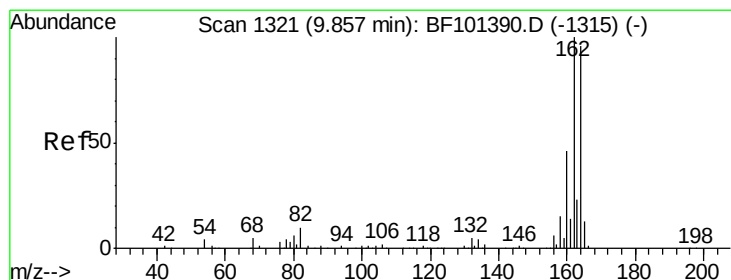
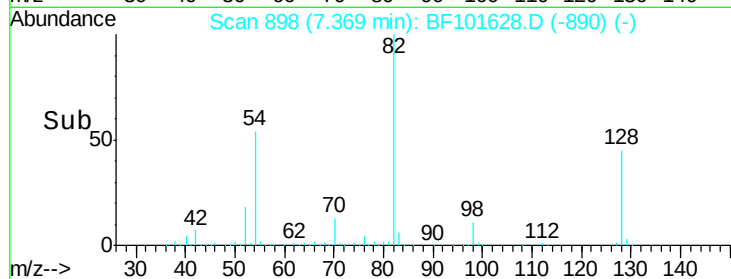
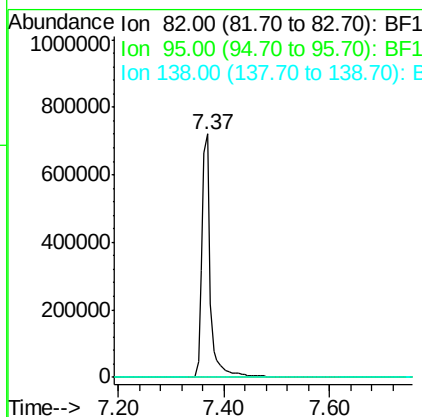
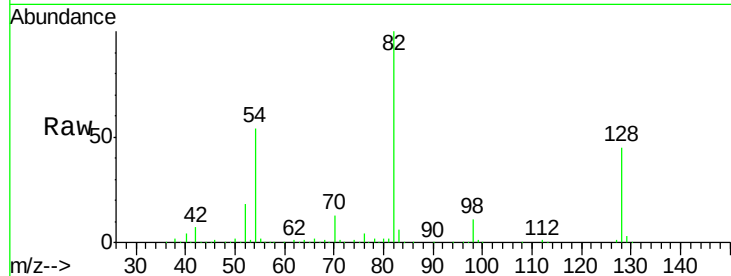




#25  
Isophorone  
Concen: 40.600 ng  
RT: 7.37 min Scan# 898  
Delta R.T. -0.25 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

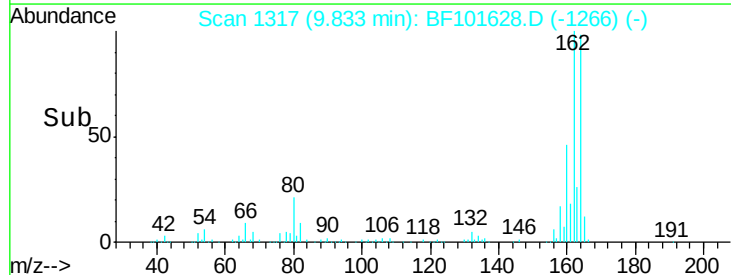
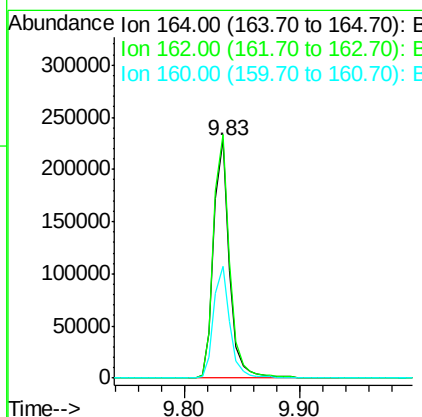
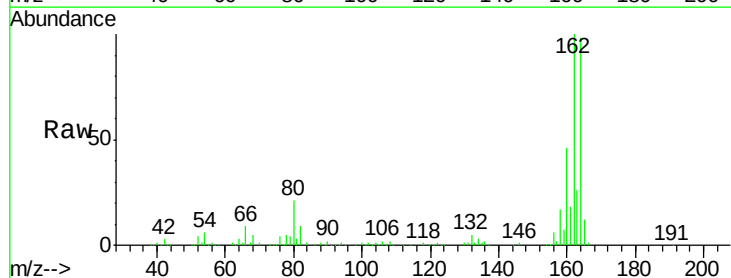
Instrument :  
BNA\_F  
ClientSampled :

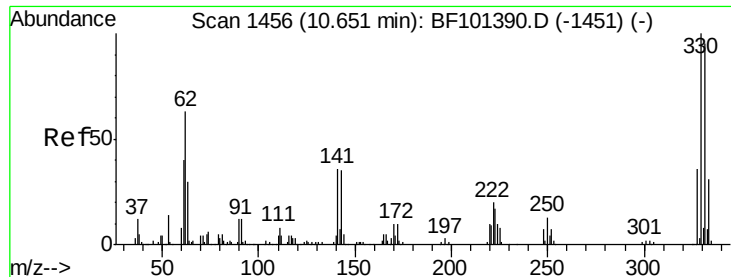
Tot Ion: 82 Resp: 817049  
Ion Ratio Lower Upper  
82 100  
95 0.0 5.2 7.8#  
138 0.0 14.9 22.3#



#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. 0.00 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

Tgt Ion: 164 Resp: 216790  
Ion Ratio Lower Upper  
164 100  
162 102.2 86.1 129.1  
160 46.8 38.3 57.5

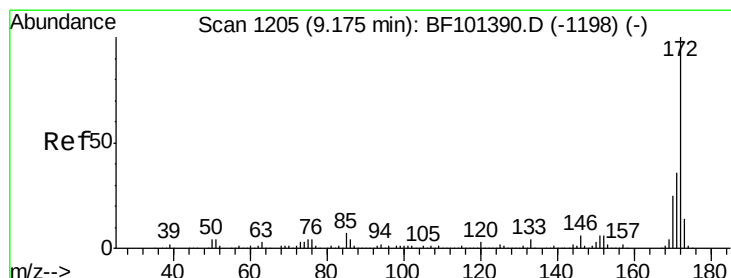
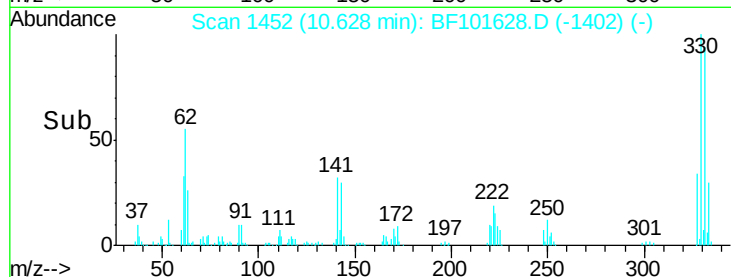
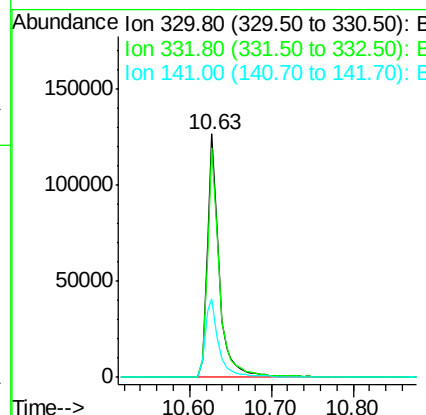
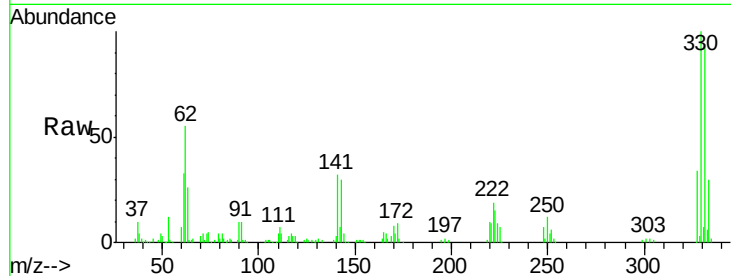




#41  
 2,4,6-Tribromophenol  
 Concen: 62.491 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. -0.01 min  
 Lab File: BF101628.D  
 Acq: 22 Dec 2017 2:14

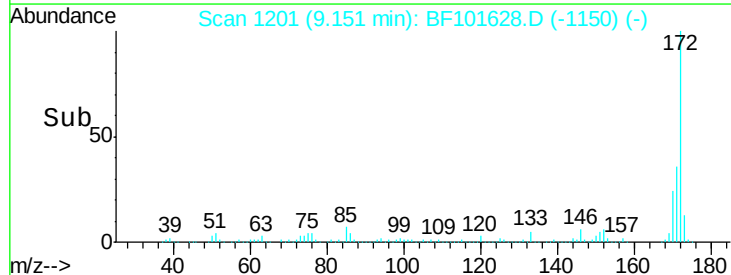
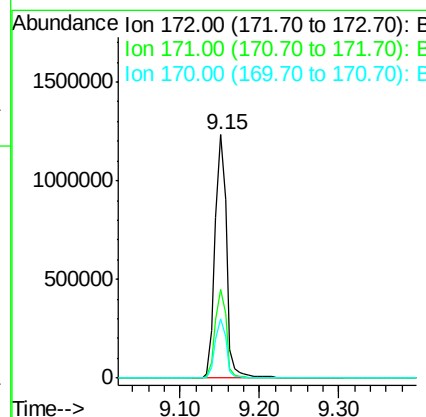
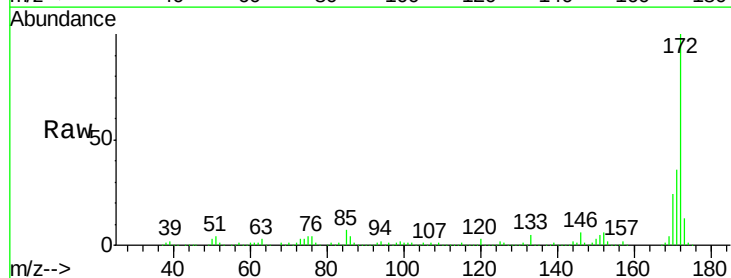
Instrument :  
 BNA\_F  
 ClientSampleId :

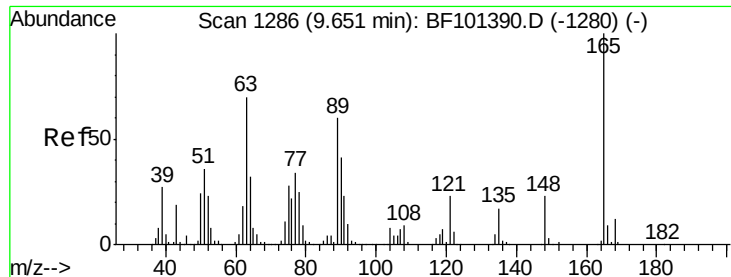
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.8  | 77.0  | 115.6 |
| 141     | 36.4  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 89.571 ng  
 RT: 9.15 min Scan# 1201  
 Delta R.T. 0.00 min  
 Lab File: BF101628.D  
 Acq: 22 Dec 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 24.5  | 19.6  | 29.4  |

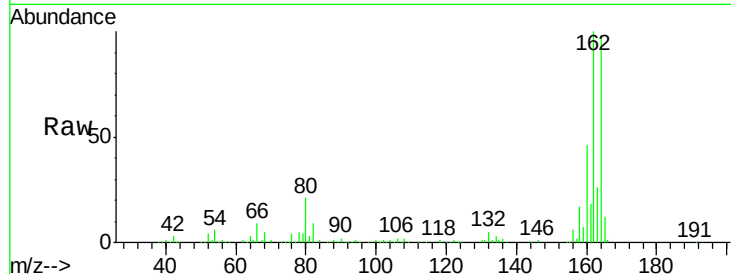




#50  
 2,6-Dinitrotoluene  
 Concen: 7.431 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. 0.20 min  
 Lab File: BF101628.D  
 Acq: 22 Dec 2017 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :

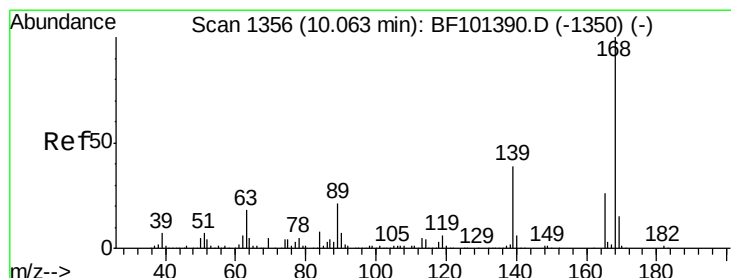
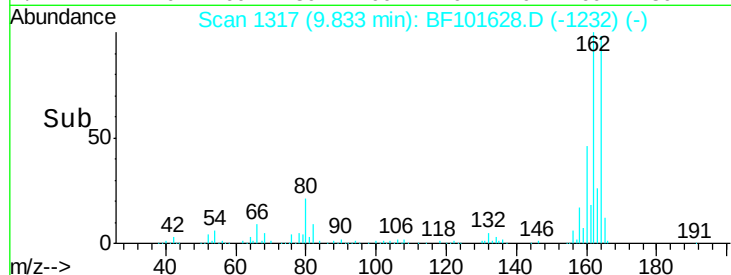
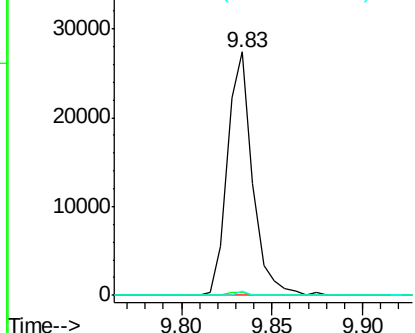
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 44.7  | 67.1# |
| 89      | 1.6   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

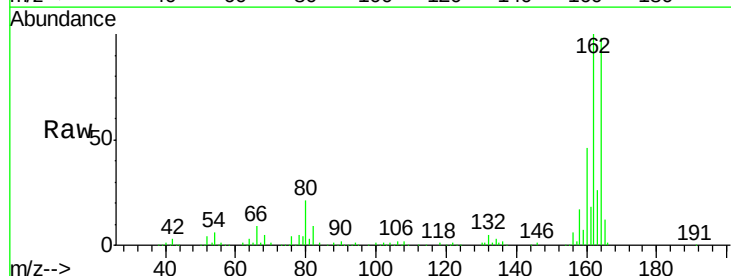
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#56  
 2,4-Dinitrotoluene  
 Concen: 6.596 ng  
 RT: 9.83 min Scan# 1317  
 Delta R.T. -0.21 min  
 Lab File: BF101628.D  
 Acq: 22 Dec 2017 2:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.3   | 36.4  | 54.6# |
| 89      | 1.6   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

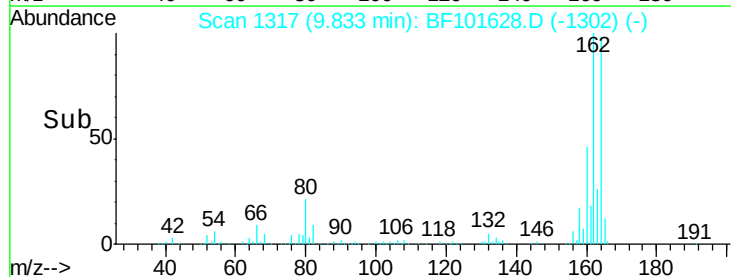
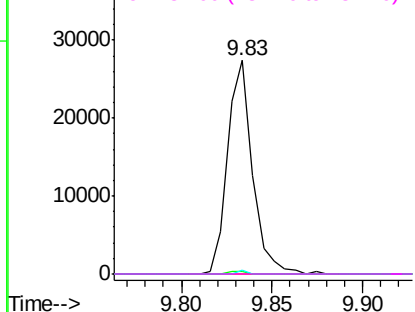


Abundance Ion 165.00 (164.70 to 165.70): E

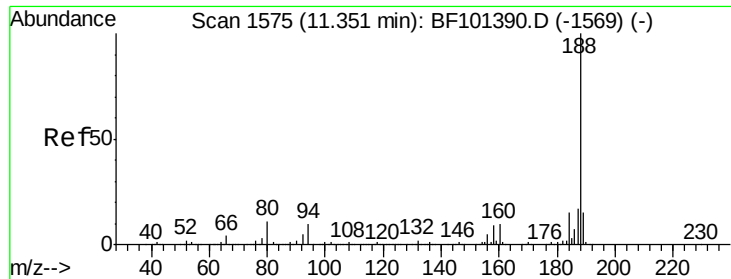
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



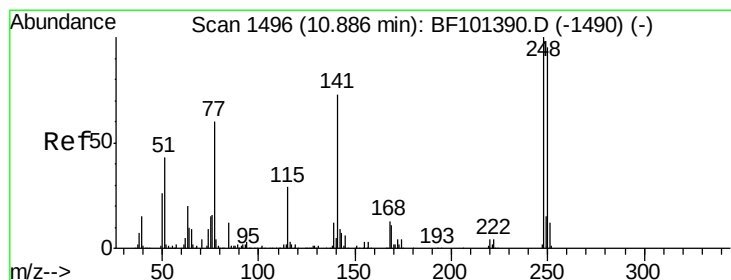
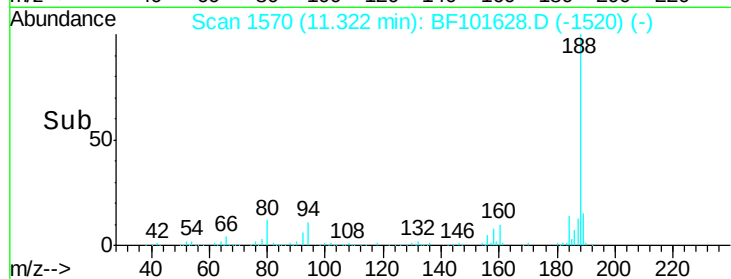
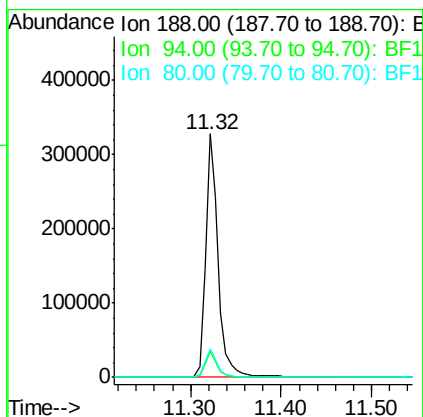
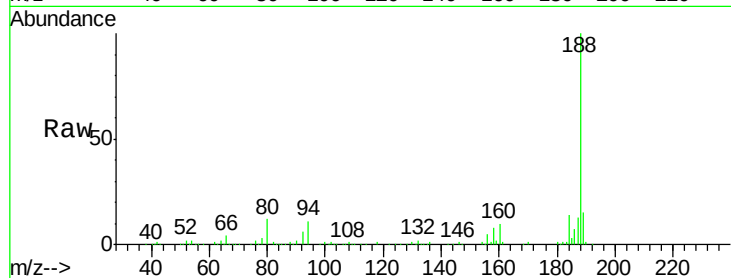




#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.32 min Scan# 1570  
Delta R.T. -0.01 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

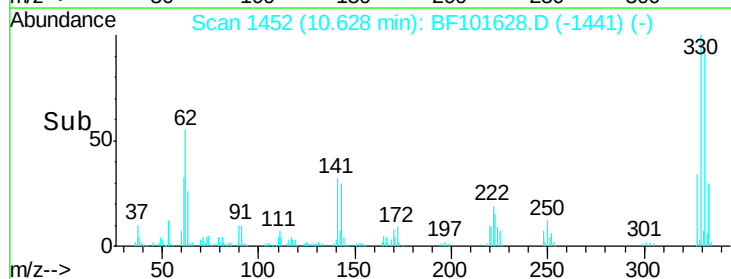
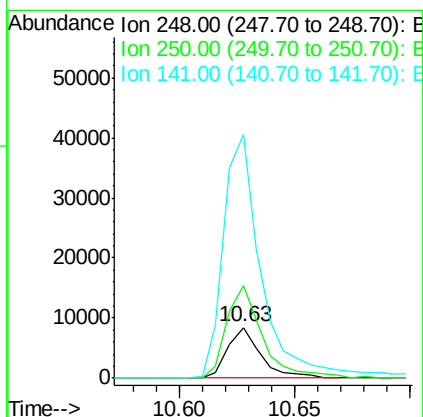
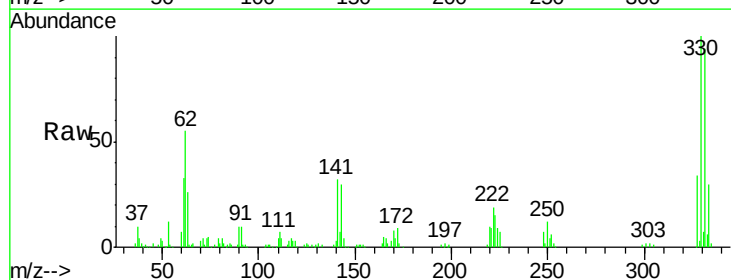
Instrument :  
BNA\_F  
ClientSampleId :

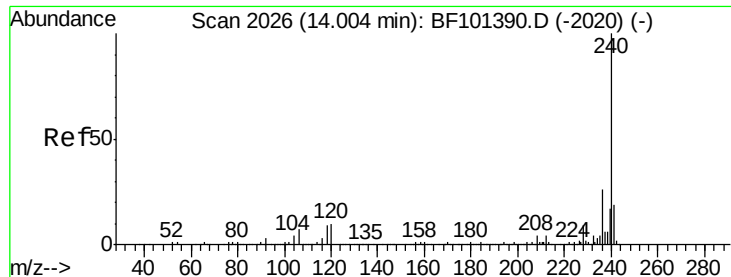
Tot Ion:188 Resp: 317976  
Ion Ratio Lower Upper  
188 100  
94 10.7 8.5 12.7  
80 11.7 9.2 13.8



#66  
4-Bromophenyl-phenylether  
Concen: 2.343 ng  
RT: 10.63 min Scan# 1452  
Delta R.T. -0.24 min  
Lab File: BF101628.D  
Acq: 22 Dec 2017 2:14

Tgt Ion:248 Resp: 8370  
Ion Ratio Lower Upper  
248 100  
250 182.3 76.9 115.3#  
141 478.4 74.4 111.6#





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF101628.D

Acq: 22 Dec 2017 2:14

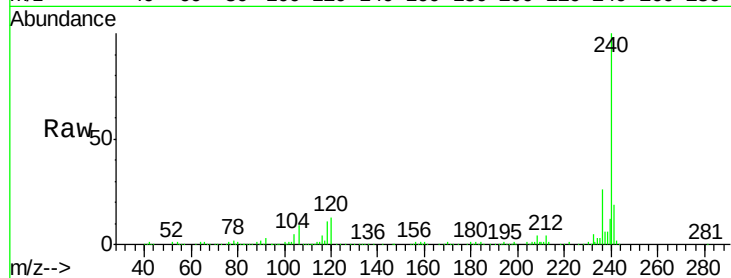
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:240 Resp: 303627

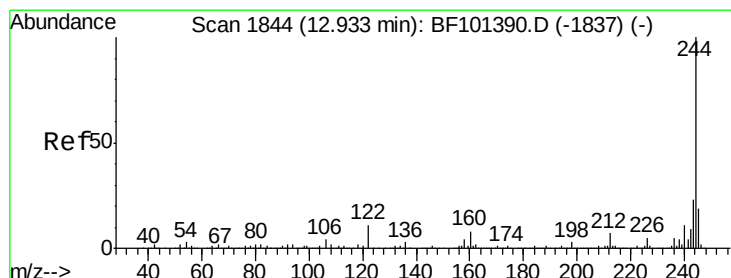
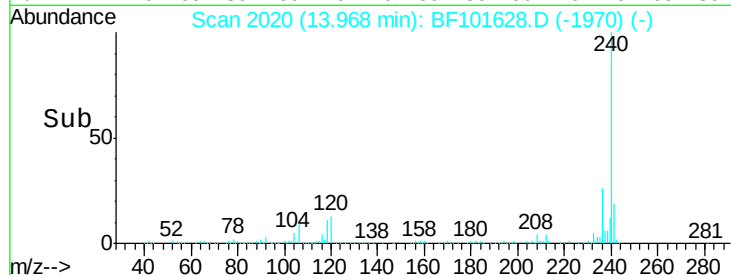
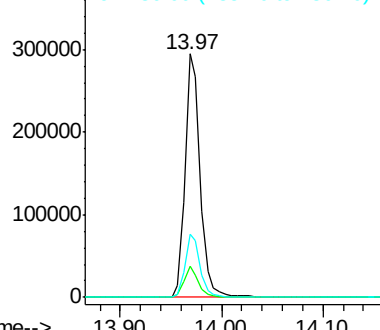
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 12.9  | 9.5   | 14.3  |
| 236 | 25.9  | 20.7  | 31.1  |



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

Terphenyl-d14

Concen: 66.304 ng

RT: 12.90 min Scan# 1839

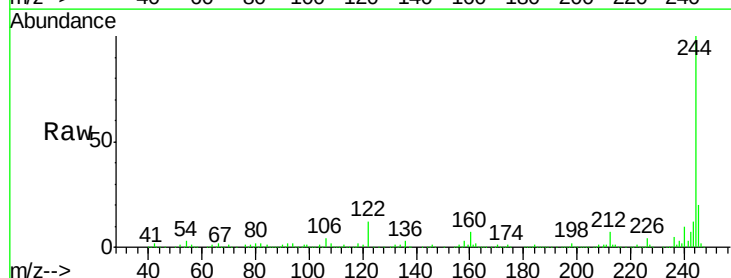
Delta R.T. -0.01 min

Lab File: BF101628.D

Acq: 22 Dec 2017 2:14

Tgt Ion:244 Resp: 835072

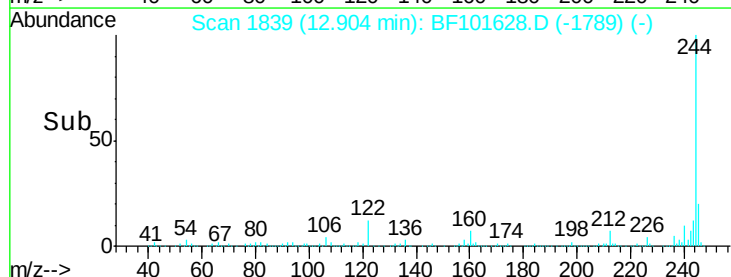
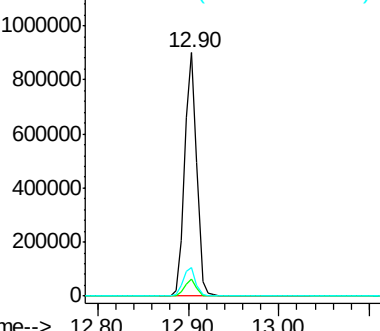
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.1   | 5.4   | 8.0   |
| 122 | 11.9  | 11.0  | 16.4  |

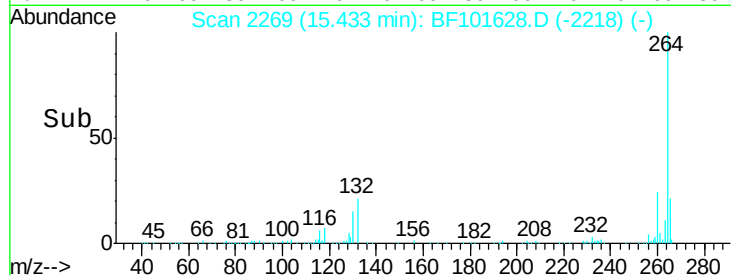
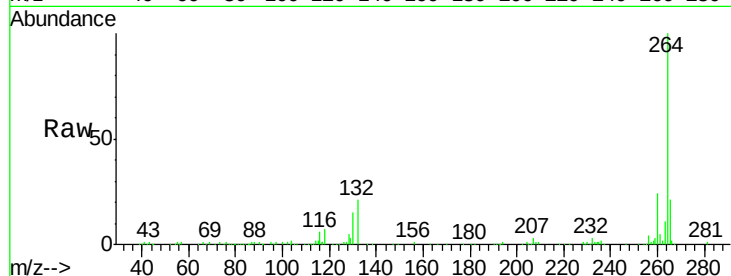
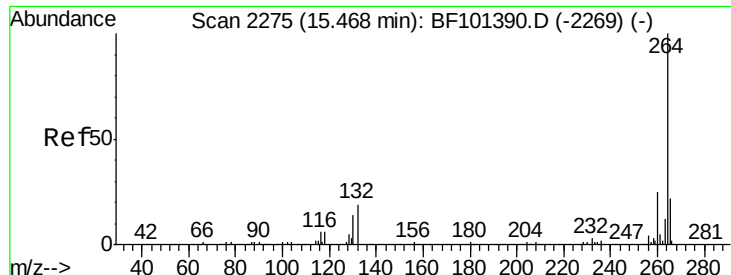


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.43 min Scan# 2269  
 Delta R.T. 0.00 min  
 Lab File: BF101628.D  
 Acq: 22 Dec 2017 2:14

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 237571 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.9  | 19.2  | 28.8   |
| 265      | 21.0  | 17.5  | 26.3   |

