

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102417\  
 Data File : BF099796.D  
 Acq On : 24 Oct 2017 18:59  
 Operator : SJ/JU  
 Sample : I6025-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 25 07:37:26 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Oct 23 23:39:26 2017  
 Response via : Initial Calibration

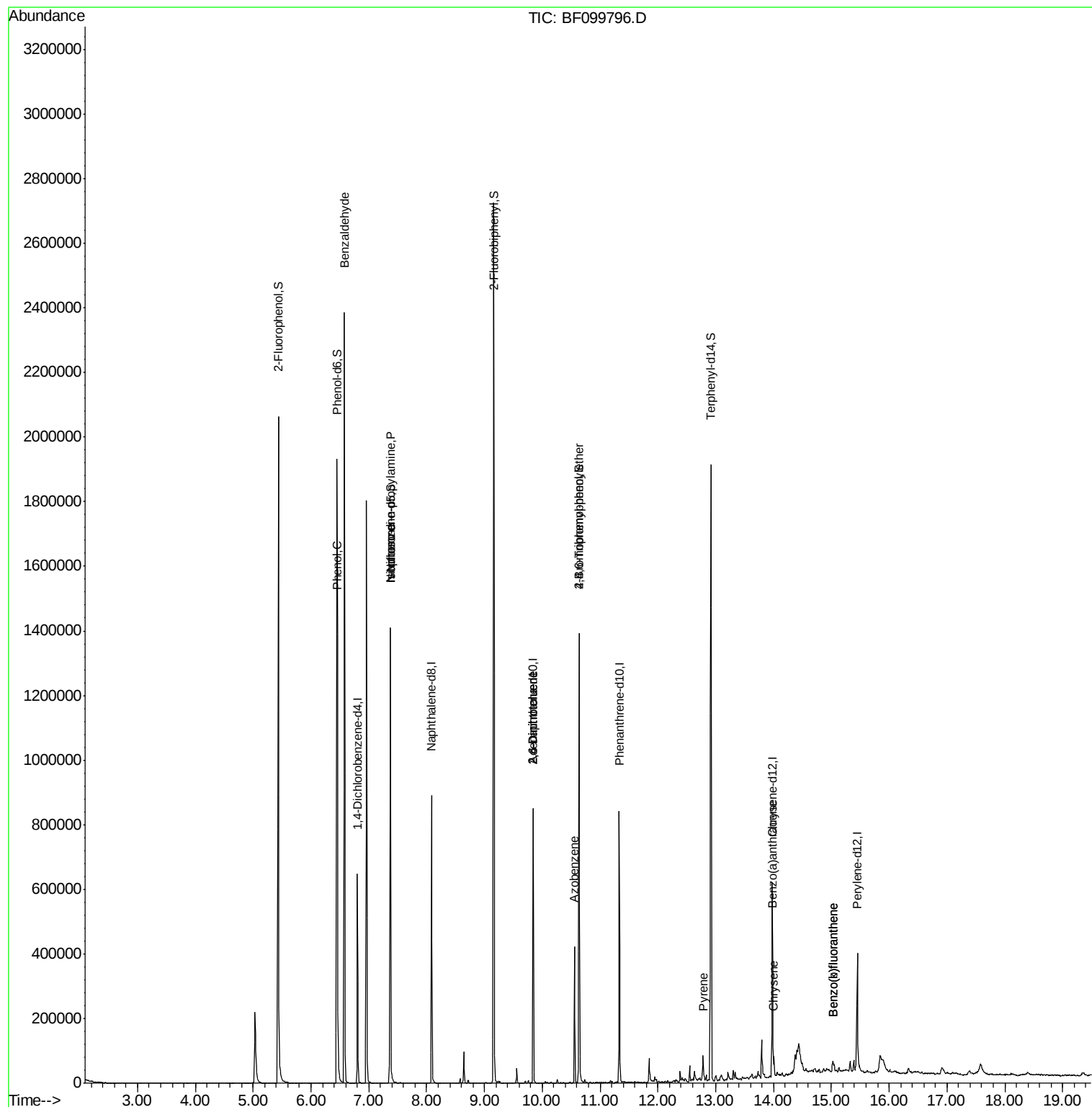
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.80  | 152  | 97618    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.09  | 136  | 403910   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 178303   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 283963   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.98 | 240  | 174443   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.45 | 264  | 168482   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 719821   | 115.77 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.45  | 99   | 871356   | 118.19 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.37  | 82   | 497528   | 79.30  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 170401   | 104.87 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 881781   | 76.30  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 625655   | 78.38  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       | Qvalue   |
| 9) Benzaldehyde                | 6.58  | 77   | 13322    | 3.02   | ng    | 90       |
| 10) Phenol                     | 6.46  | 94   | 17718    | 2.19   | ng    | 90       |
| 19) n-Nitroso-di-n-propylamine | 7.37  | 70   | 62796    | 14.53  | ng    | # 73     |
| 25) Isophorone                 | 7.37  | 82   | 497523   | 43.70  | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.84  | 165  | 22390    | 7.54   | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 22390    | 6.26   | ng    | # 22     |
| 62) Azobenzene                 | 10.56 | 77   | 65133    | 5.63   | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 11571    | 3.87   | ng    | # 1      |
| 77) Pyrene                     | 12.78 | 202  | 30344    | 2.29   | ng    | 97       |
| 80) Benzo(a)anthracene         | 13.97 | 228  | 23465    | 2.12   | ng    | 98       |
| 82) Chrysene                   | 14.01 | 228  | 25719    | 2.47   | ng    | 97       |
| 87) Benzo(b)fluoranthene       | 15.02 | 252  | 25162    | 2.37   | ng    | # 94     |
| 88) Benzo(k)fluoranthene       | 15.02 | 252  | 25162    | 2.51   | ng    | # 97     |

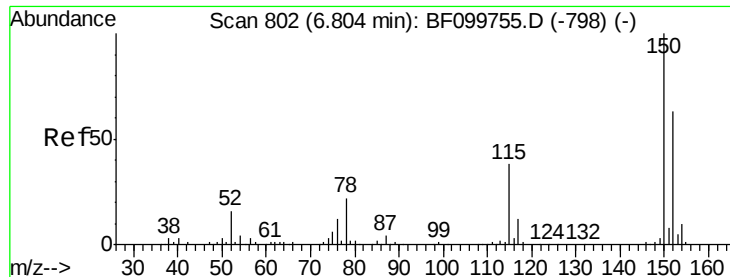
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102417\  
Data File : BF099796.D  
Acq On : 24 Oct 2017 18:59  
Operator : SJ/JU  
Sample : I6025-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Oct 25 07:37:26 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Oct 23 23:39:26 2017  
Response via : Initial Calibration



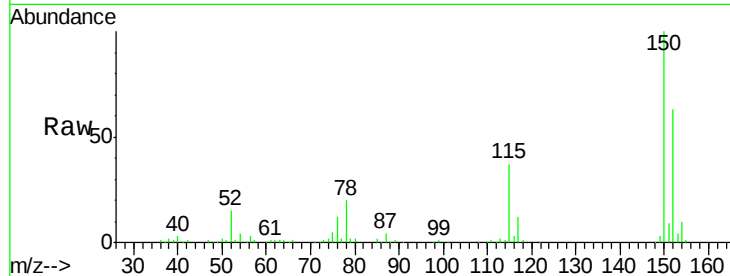


#1

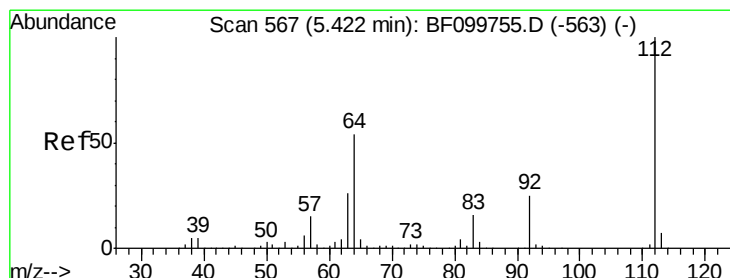
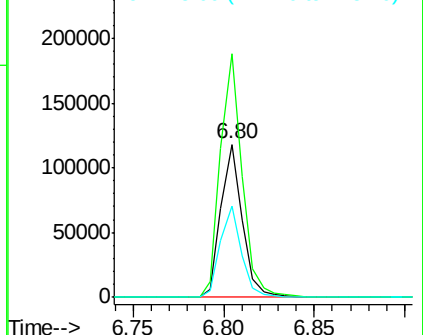
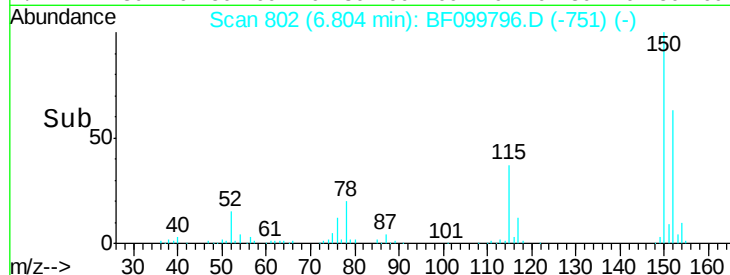
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.00 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 97618  
Ion Ratio Lower Upper  
152 100  
150 159.1 124.6 186.8  
115 59.6 50.1 75.1



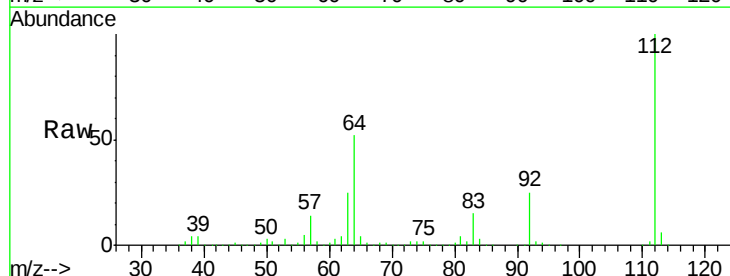
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



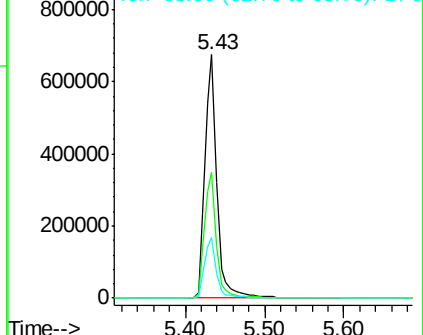
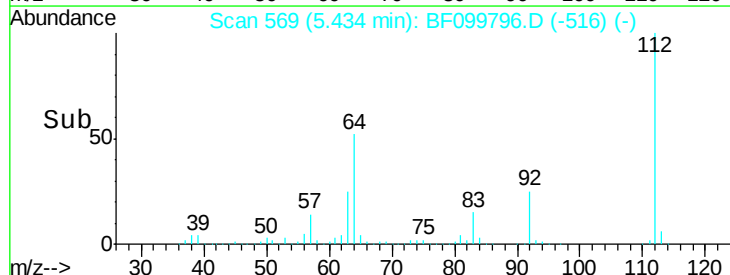
#5

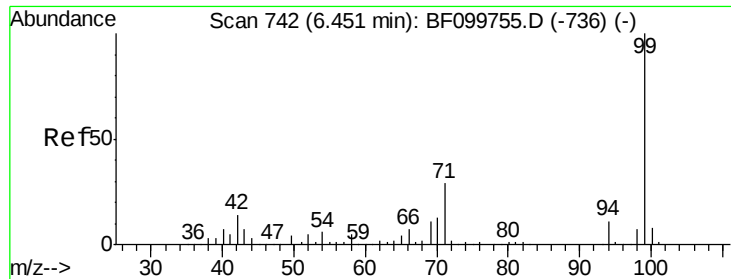
2-Fluorophenol  
Concen: 115.77 ng  
RT: 5.43 min Scan# 569  
Delta R.T. 0.01 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

Tgt Ion:112 Resp: 719821  
Ion Ratio Lower Upper  
112 100  
64 51.6 47.9 71.9  
63 24.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF0  
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 118.19 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.00 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

Instrument :

BNA\_F

ClientSampled :

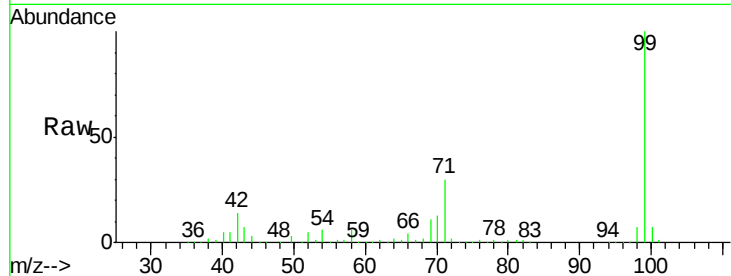
Tot Ion: 99 Resp: 871356

Ion Ratio Lower Upper

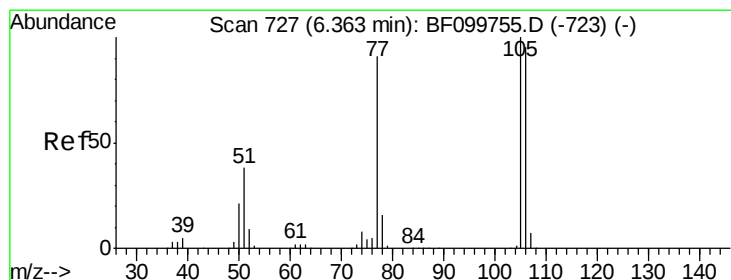
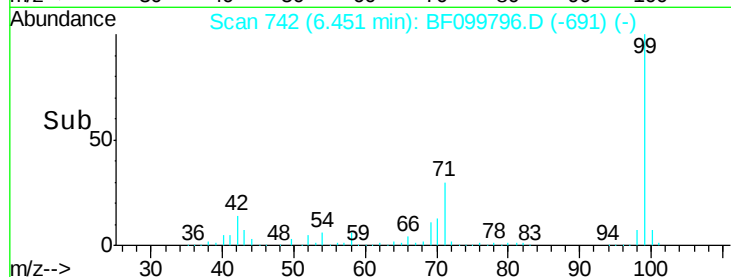
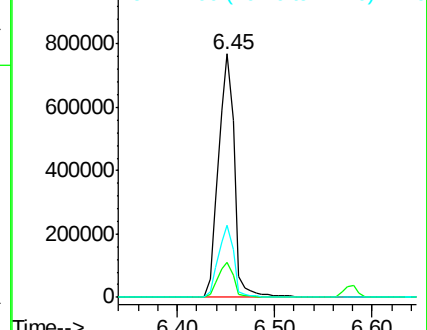
99 100

42 14.2 14.5 21.7#

71 29.6 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0  
Ion 42.00 (41.70 to 42.70): BF0  
Ion 71.00 (70.70 to 71.70): BF0



#9

Benzaldehyde

Concen: 3.02 ng

RT: 6.58 min Scan# 764

Delta R.T. 0.22 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

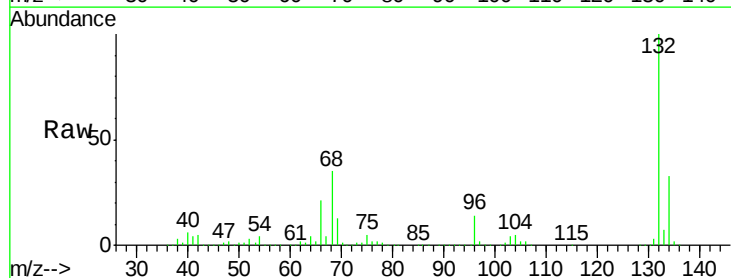
Tgt Ion: 77 Resp: 13322

Ion Ratio Lower Upper

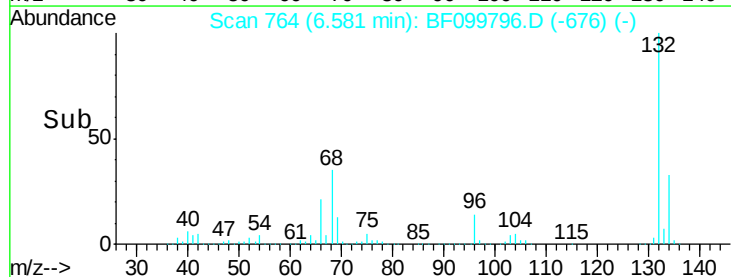
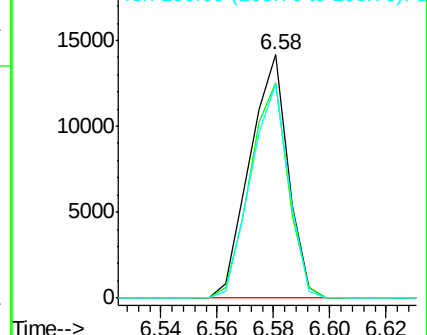
77 100

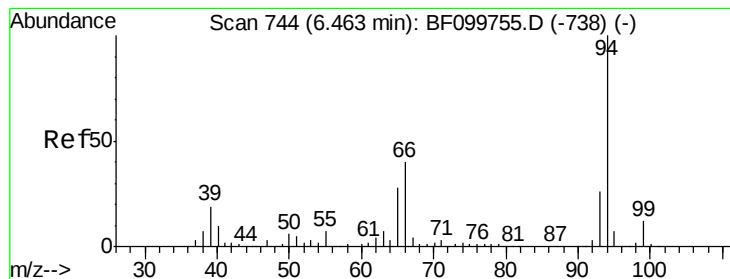
105 88.7 81.1 121.1

106 88.1 74.5 114.5



Abundance Ion 77.00 (76.70 to 77.70): BF0  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 2.19 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.00 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

Instrument :

BNA\_F

ClientSampleId :

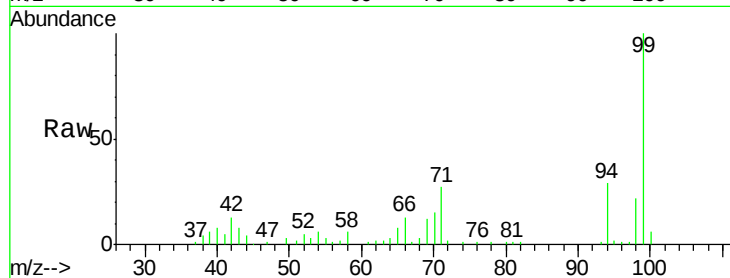
Tot Ion: 94 Resp: 17718

Ion Ratio Lower Upper

94 100

65 27.9 7.9 47.9

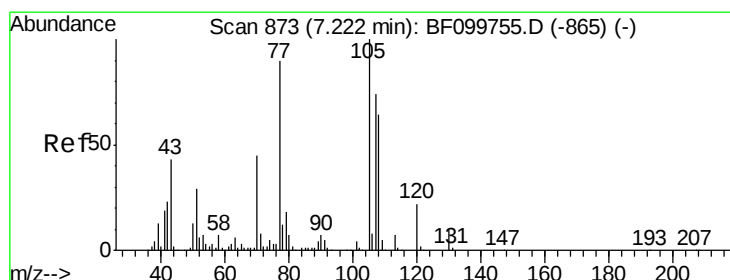
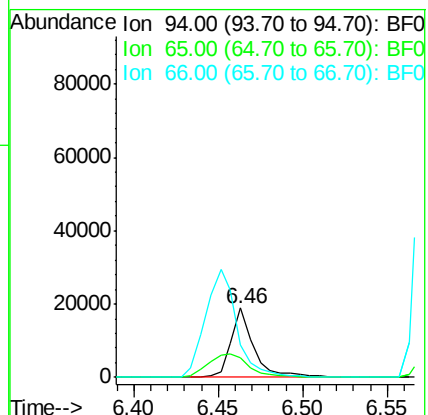
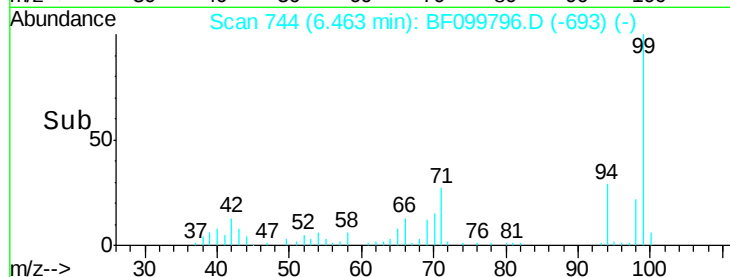
66 46.3 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0



#19

n-Nitroso-di-n-propylamine

Concen: 14.53 ng

RT: 7.37 min Scan# 899

Delta R.T. 0.15 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

Tgt Ion: 70 Resp: 62796

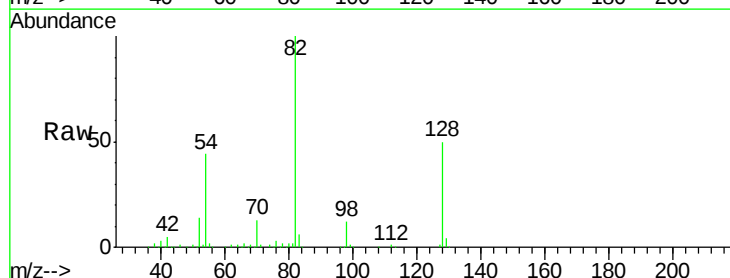
Ion Ratio Lower Upper

70 100

42 42.0 47.5 71.3#

101 0.0 7.4 11.2#

130 2.8 16.6 25.0#

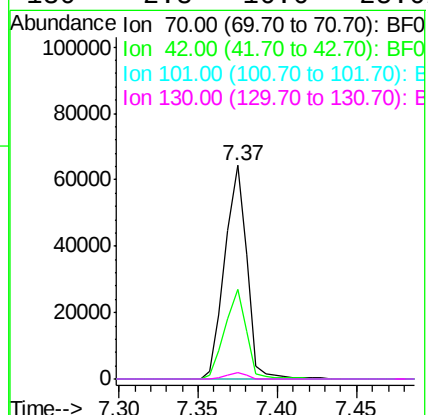
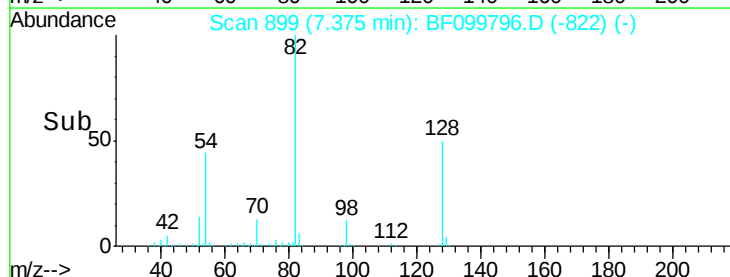


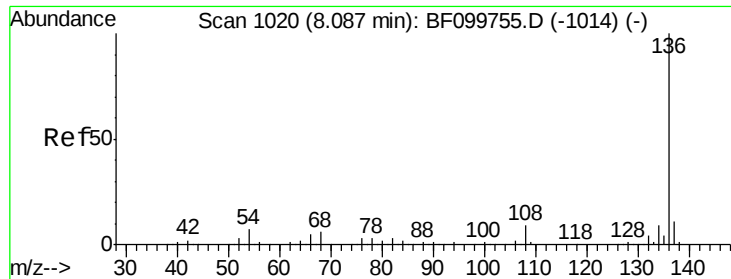
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0

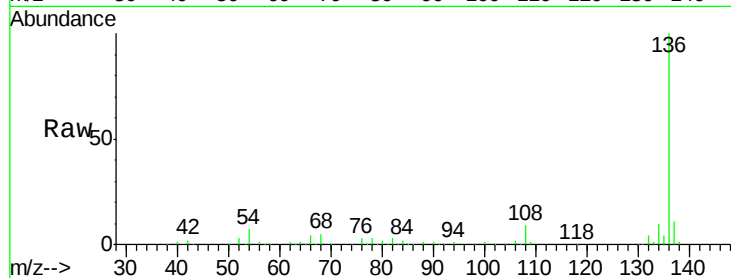




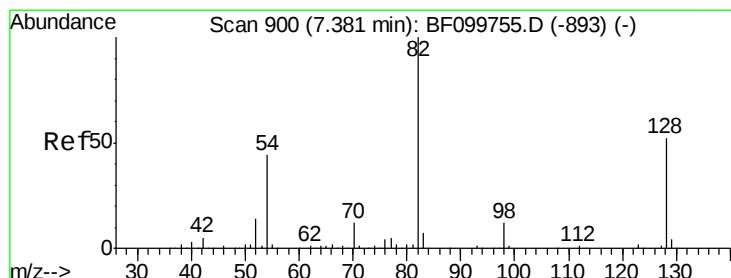
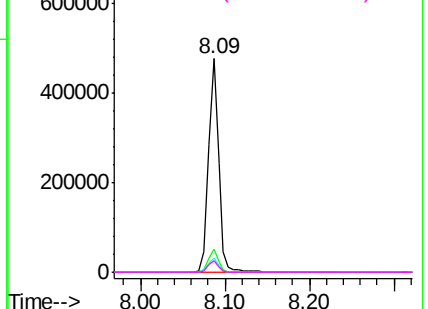
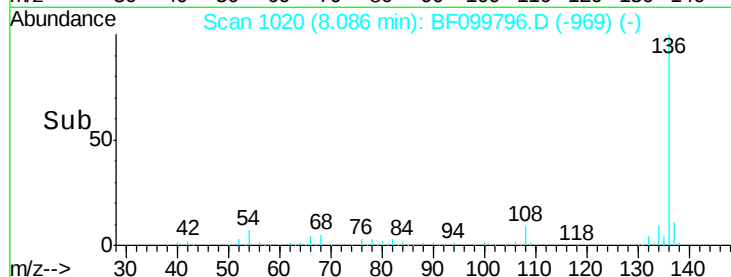
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.09 min Scan# 1020  
Delta R.T. -0.00 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 403910      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 10.9  | 8.9 13.3    |
| 54          | 6.6   | 6.6 9.8     |
| 68          | 5.4   | 5.0 7.4     |

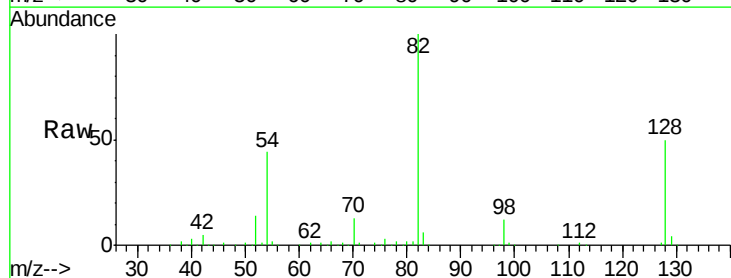


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

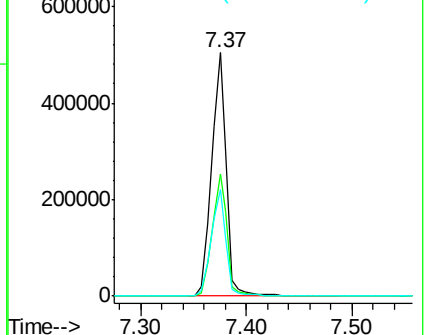
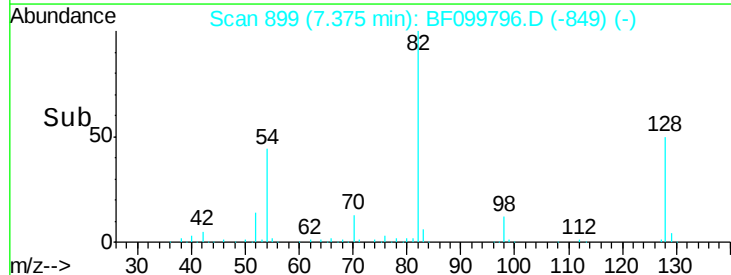


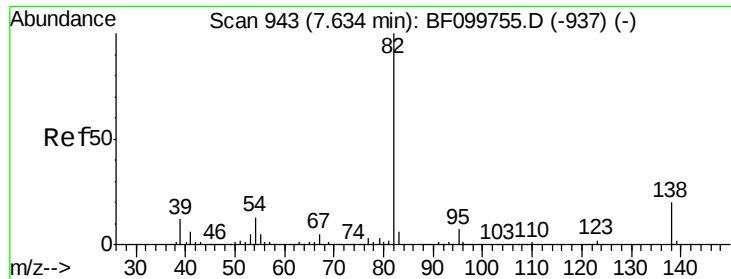
#23  
Nitrobenzene-d5  
Concen: 79.30 ng  
RT: 7.37 min Scan# 899  
Delta R.T. -0.01 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 497528      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 50.2  | 36.1 54.1   |
| 54          | 43.9  | 41.4 62.2   |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 43.70 ng

RT: 7.37 min Scan# 899

Delta R.T. -0.26 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

Instrument :

BNA\_F

ClientSampleId :

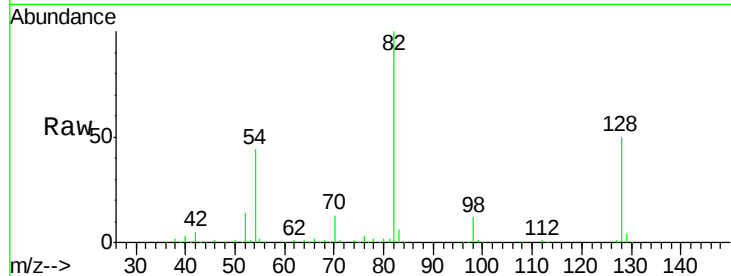
Tot Ion: 82 Resp: 497523

Ion Ratio Lower Upper

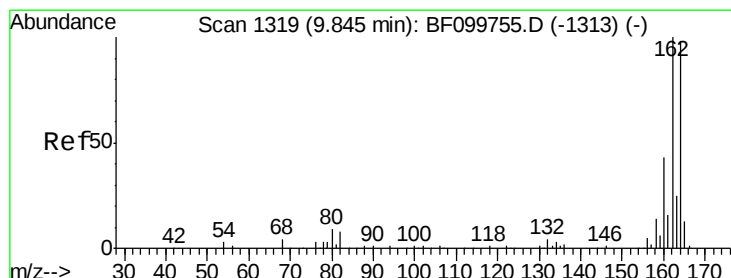
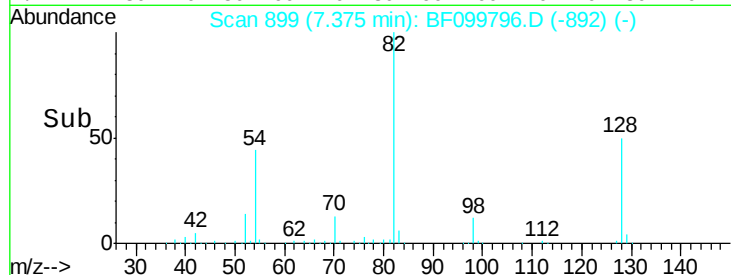
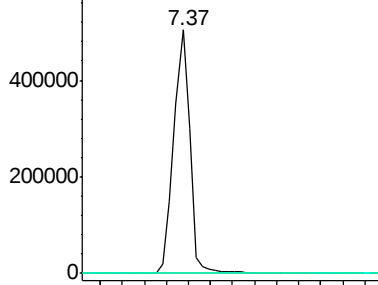
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.84 min Scan# 1318

Delta R.T. -0.01 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

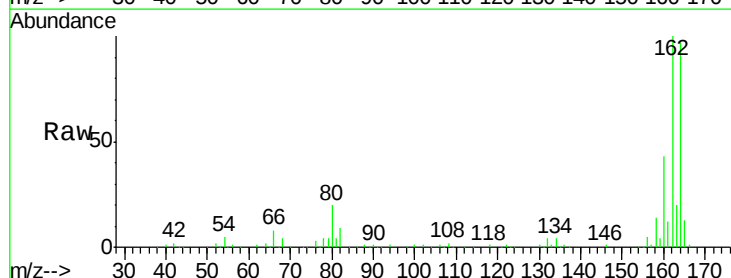
Tgt Ion: 164 Resp: 178303

Ion Ratio Lower Upper

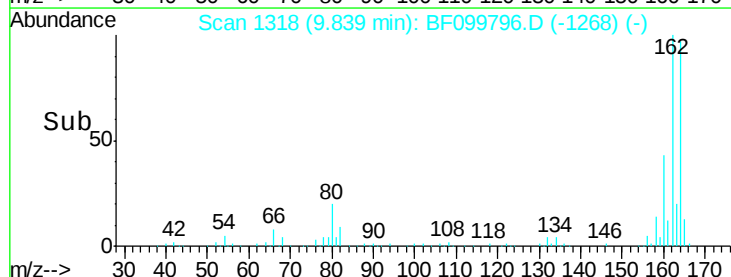
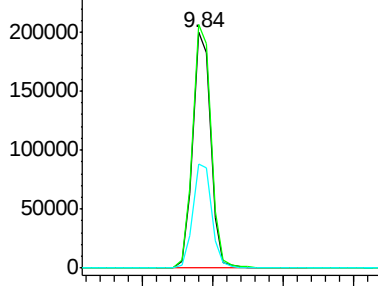
164 100

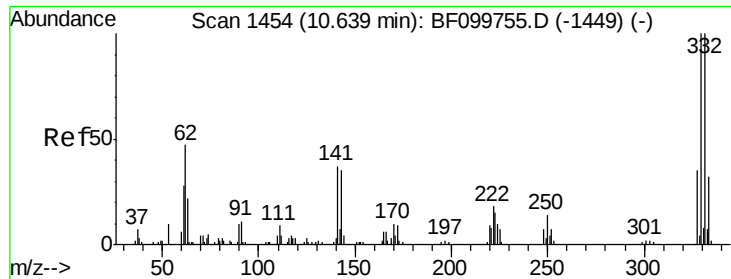
162 103.5 86.1 129.1

160 44.4 38.3 57.5



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

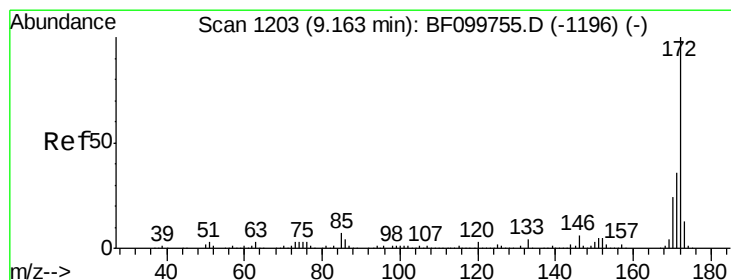
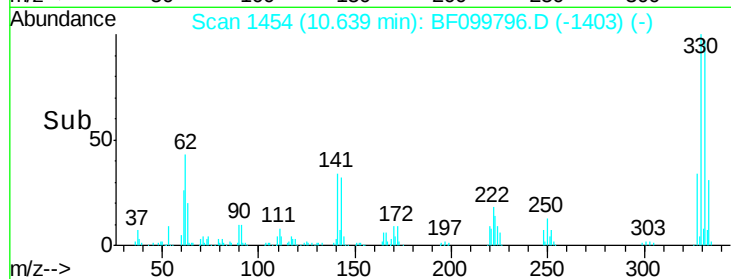
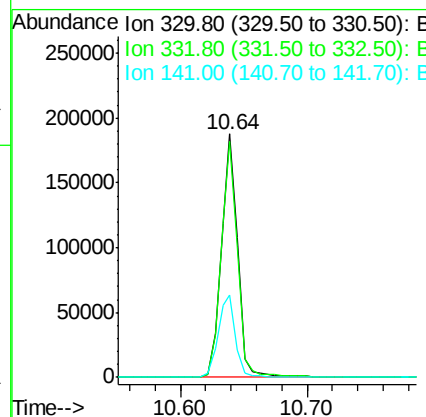
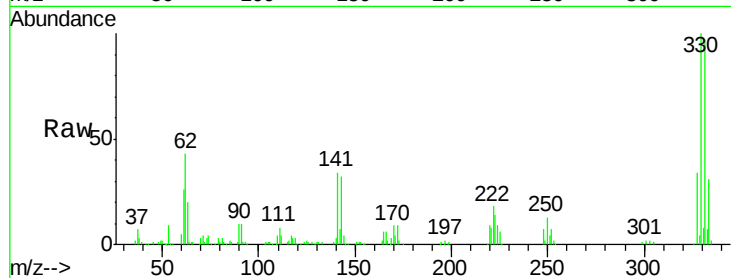




#41  
 2,4,6-Tribromophenol  
 Concen: 104.87 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.00 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

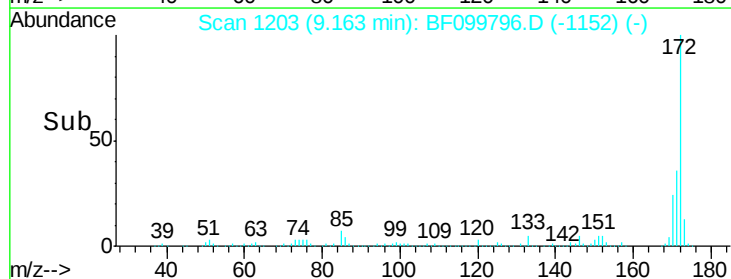
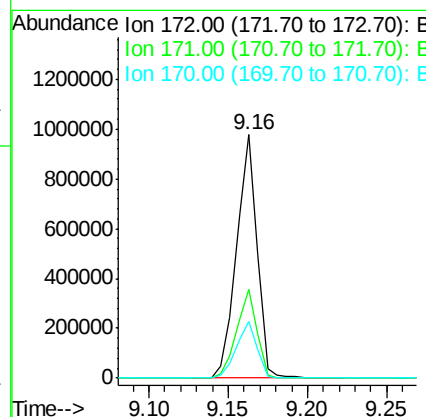
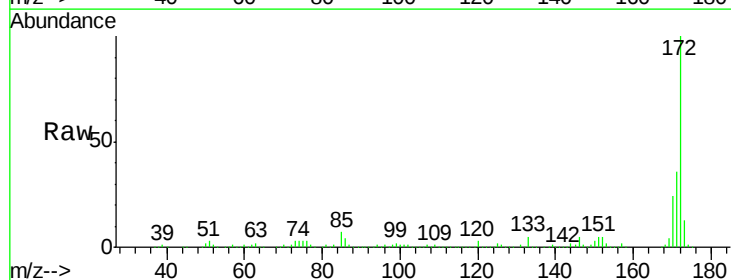
Instrument :  
 BNA\_F  
 ClientSampled :

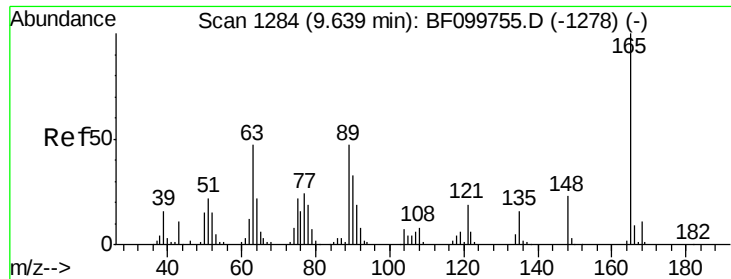
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.8  | 77.0  | 115.6 |
| 141     | 36.2  | 29.9  | 44.9  |



#44  
 2-Fluorobiphenyl  
 Concen: 76.30 ng  
 RT: 9.16 min Scan# 1203  
 Delta R.T. 0.00 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 23.5  | 19.6  | 29.4  |

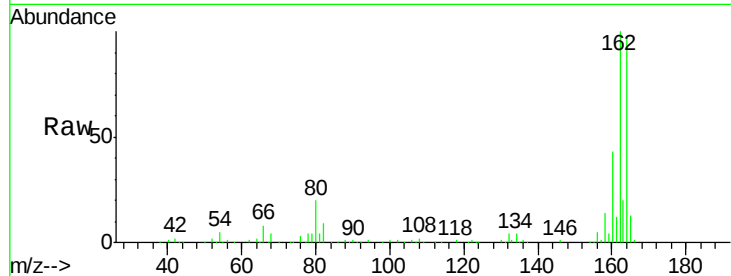




#50  
 2,6-Dinitrotoluene  
 Concen: 7.54 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. 0.20 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

Instrument :  
 BNA\_F  
 ClientSampleId :

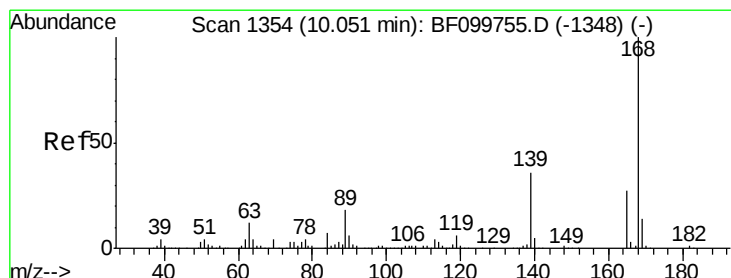
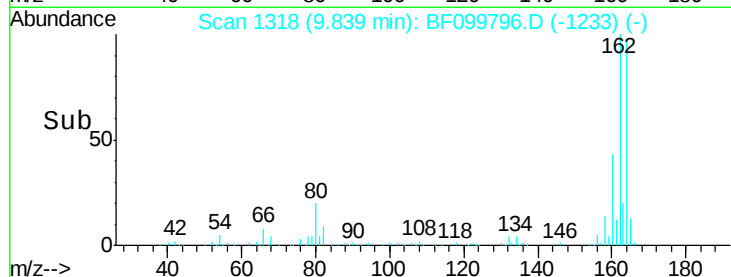
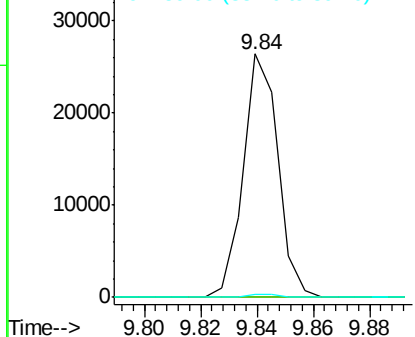
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 1.3   | 44.0  | 66.0# |



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0



#56  
 2,4-Dinitrotoluene  
 Concen: 6.26 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.21 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

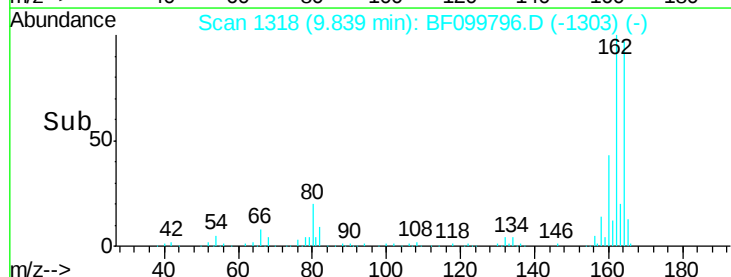
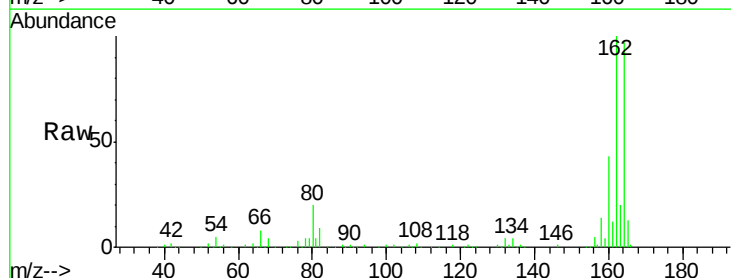
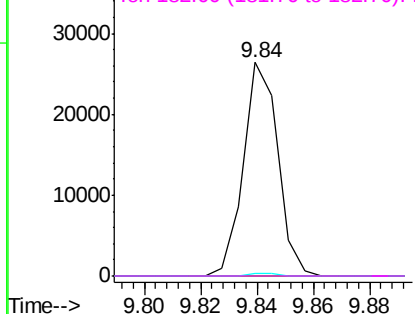
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 36.4  | 54.6# |
| 89      | 1.3   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |

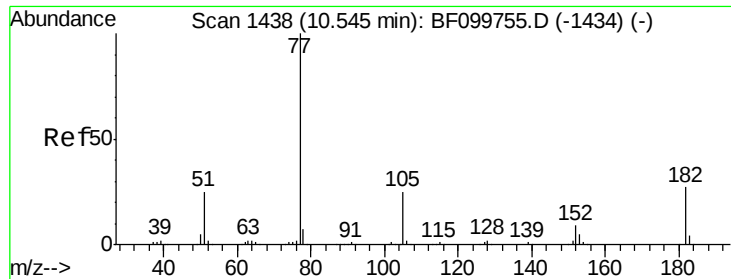
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E





#62

Azobenzene

Concen: 5.63 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.01 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 77 Resp: 65133

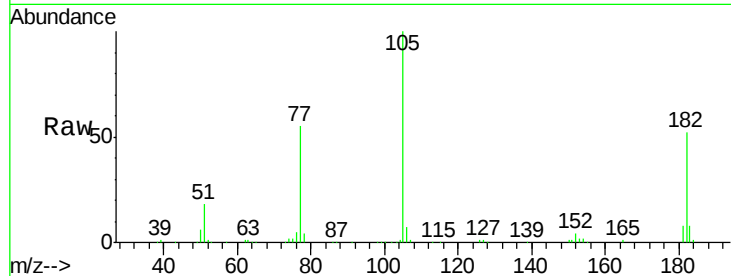
Ion Ratio Lower Upper

77 100

182 93.3 1.7 41.7#

105 180.5 3.0 43.0#

51 33.1 9.9 49.9

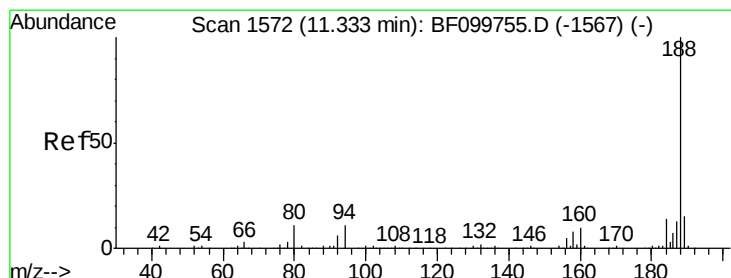
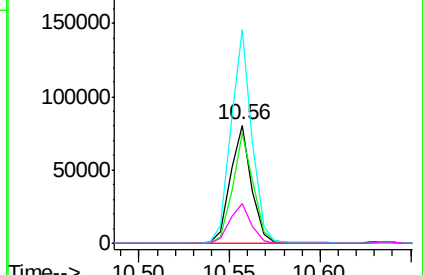
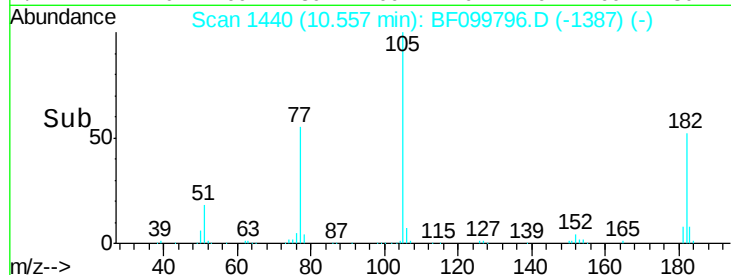


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF0



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 1572

Delta R.T. -0.00 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

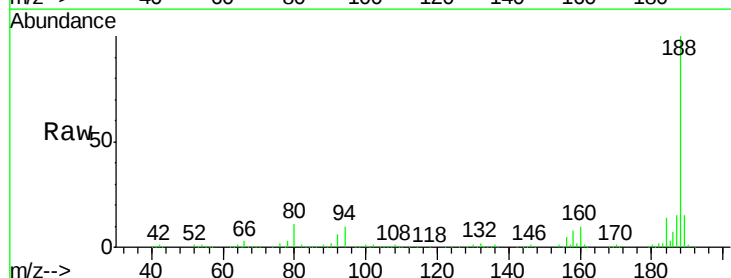
Tgt Ion: 188 Resp: 283963

Ion Ratio Lower Upper

188 100

94 9.8 8.5 12.7

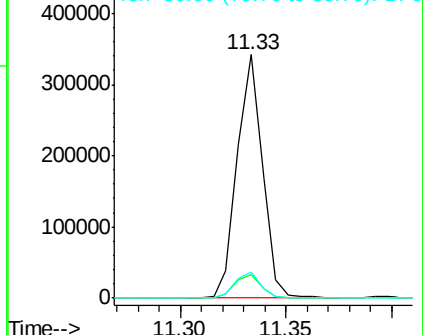
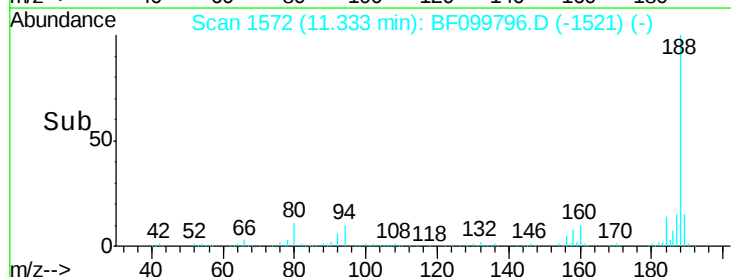
80 10.8 9.2 13.8

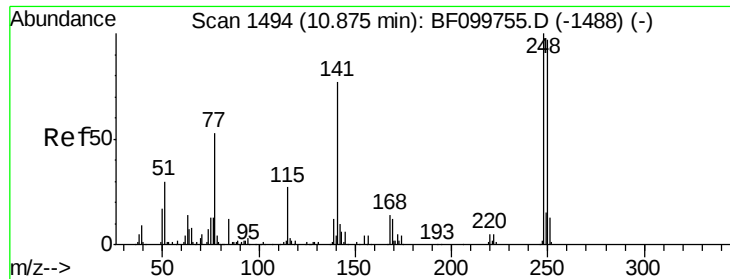


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

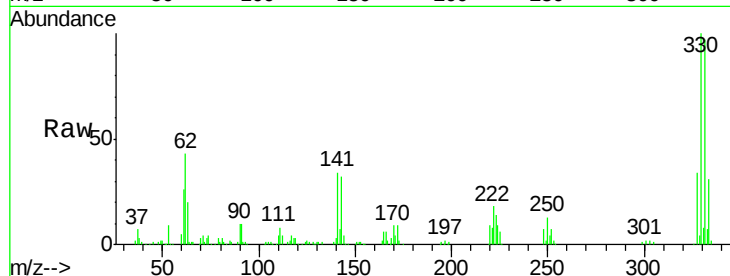




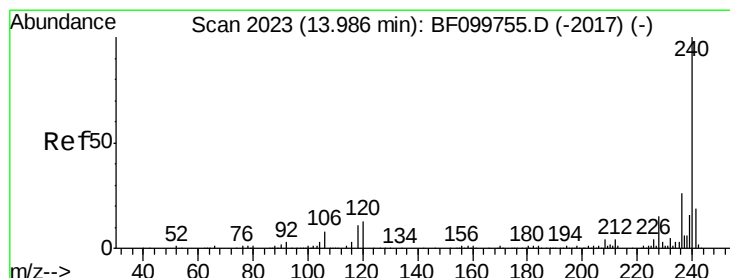
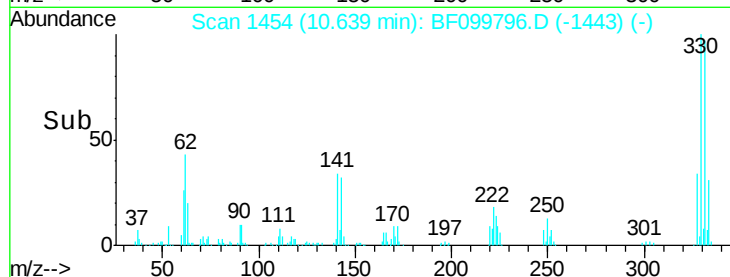
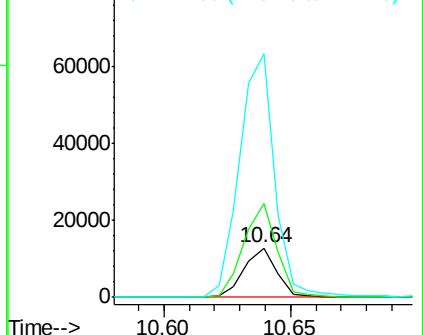
#66  
4-Bromophenyl-phenylether  
Concen: 3.87 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.24 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

Instrument :  
BNA\_F  
ClientSampled :

Tot Ion:248 Resp: 11571  
Ion Ratio Lower Upper  
248 100  
250 189.3 76.9 115.3#  
141 490.5 74.4 111.6#

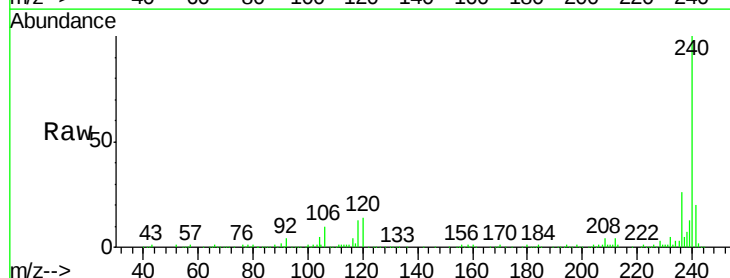


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

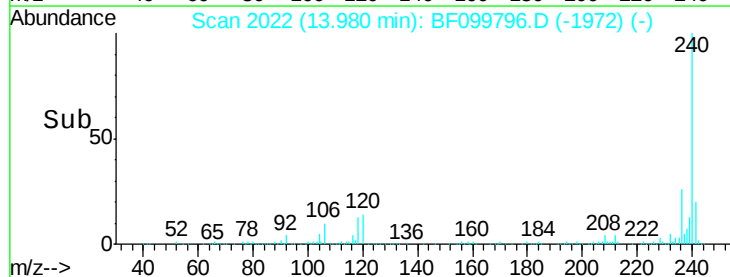
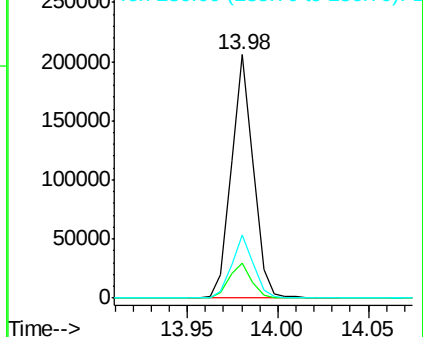


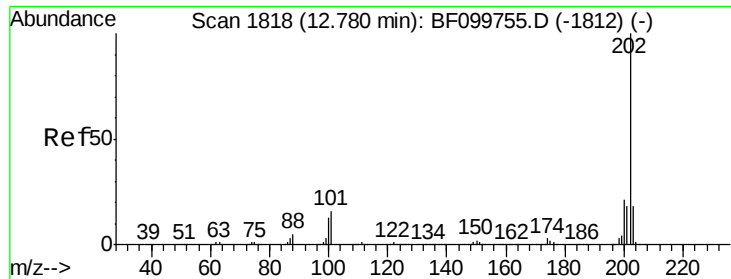
#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.01 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

Tgt Ion:240 Resp: 174443  
Ion Ratio Lower Upper  
240 100  
120 14.2 9.5 14.3  
236 26.0 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

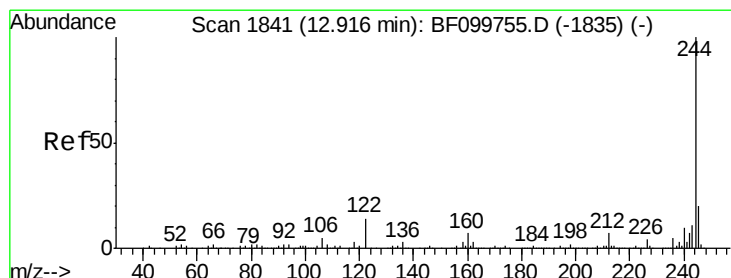
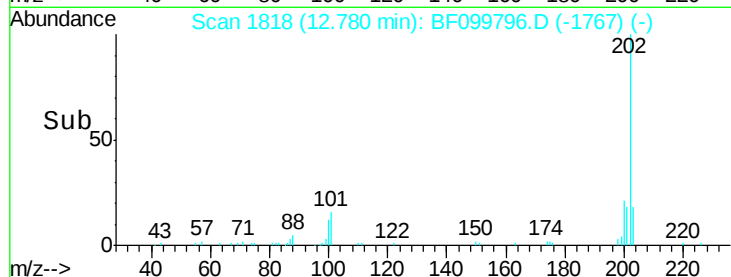
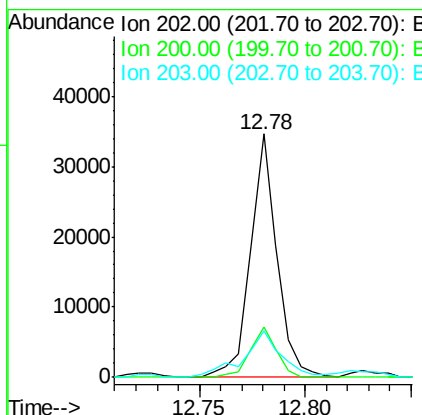
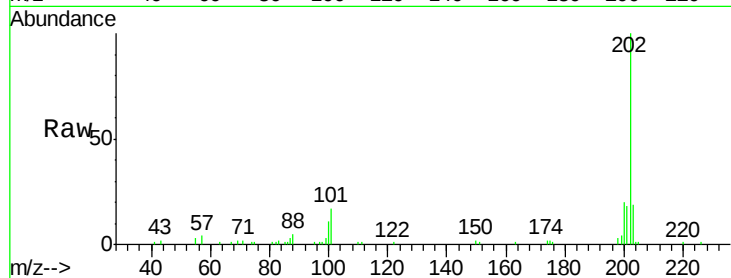




#77  
Pvrene  
Concen: 2.29 ng  
RT: 12.78 min Scan# 1818  
Delta R.T. -0.00 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

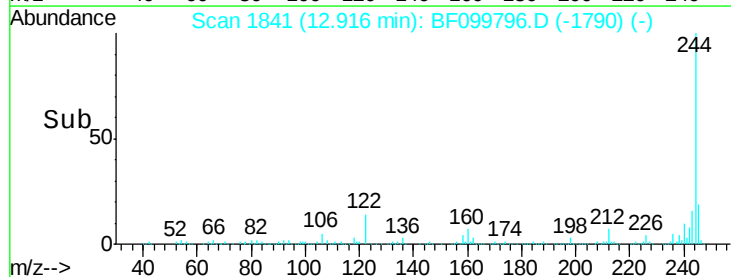
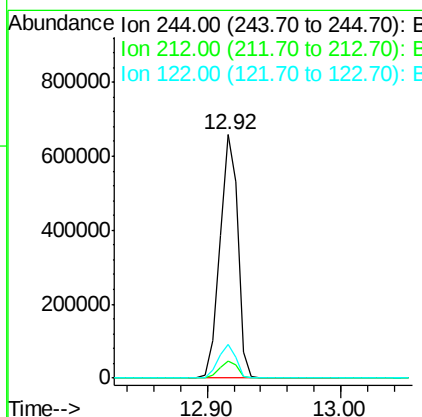
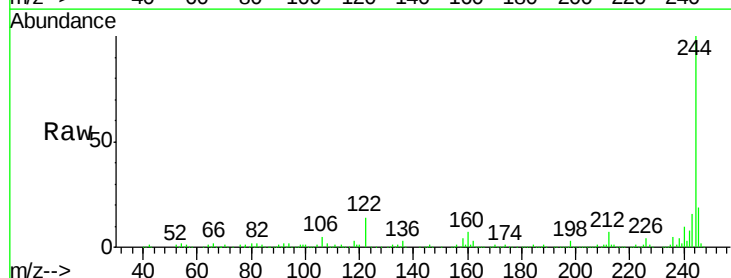
Instrument :  
BNA\_F  
ClientSampled :

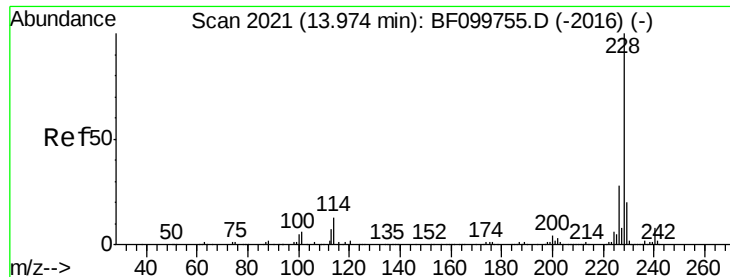
Tot Ion:202 Resp: 30344  
Ion Ratio Lower Upper  
202 100  
200 20.5 17.4 26.2  
203 18.9 14.3 21.5



#78  
Terphenyl-d14  
Concen: 78.38 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. -0.00 min  
Lab File: BF099796.D  
Acq: 24 Oct 2017 18:59

Tgt Ion:244 Resp: 625655  
Ion Ratio Lower Upper  
244 100  
212 7.0 5.4 8.0  
122 13.9 11.0 16.4





#80

Benzo(a)anthracene

Concen: 2.12 ng

RT: 13.97 min Scan# 2020

Delta R.T. -0.01 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

Instrument :

BNA\_F

ClientSampleId :

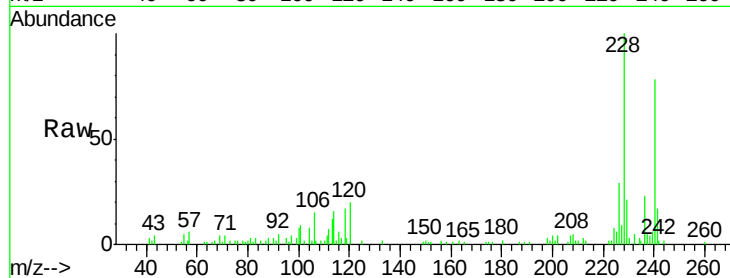
Tot Ion:228 Resp: 23465

Ion Ratio Lower Upper

228 100

226 28.8 22.6 33.8

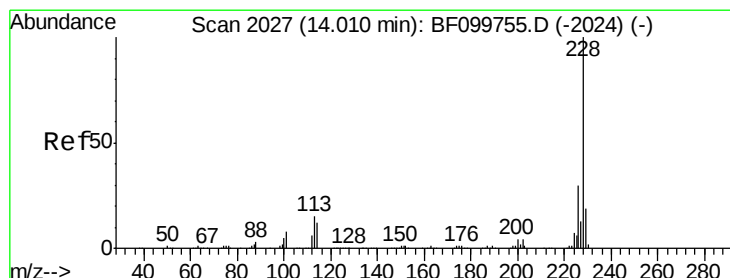
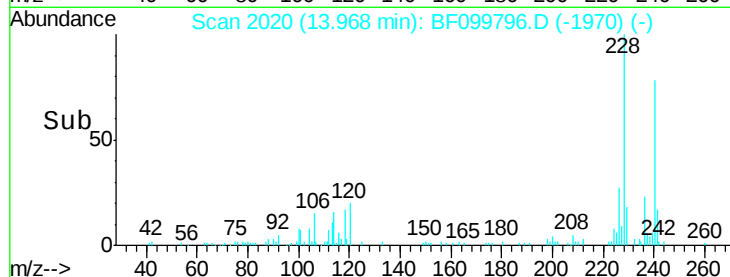
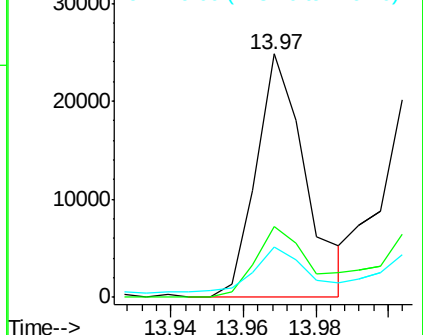
229 20.8 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 2.47 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.00 min

Lab File: BF099796.D

Acq: 24 Oct 2017 18:59

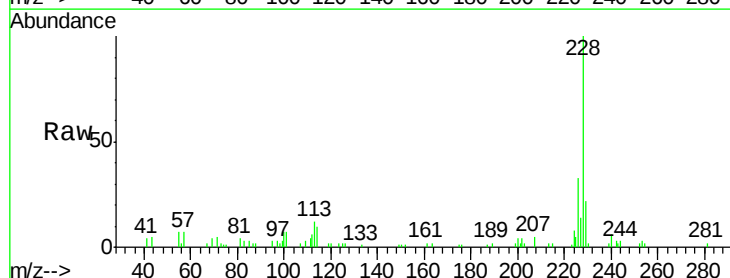
Tgt Ion:228 Resp: 25719

Ion Ratio Lower Upper

228 100

226 33.0 25.0 37.6

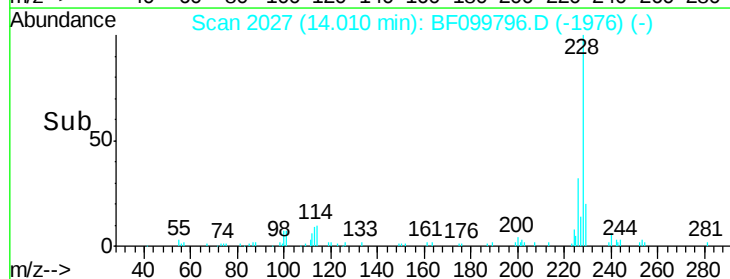
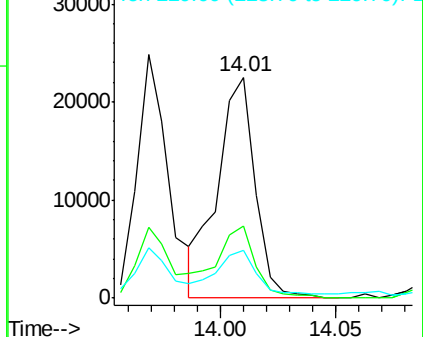
229 21.6 16.2 24.4

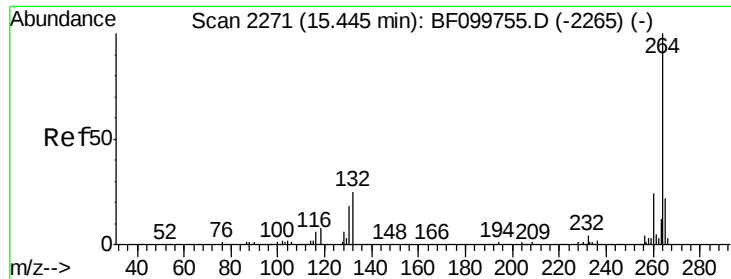


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

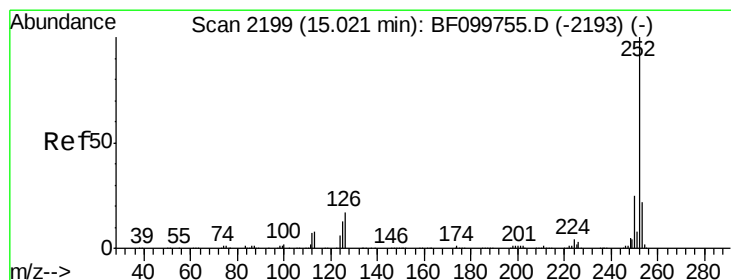
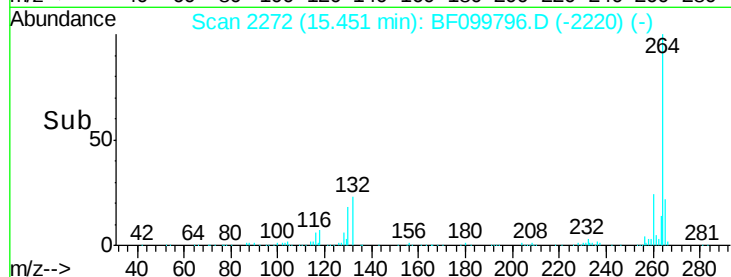
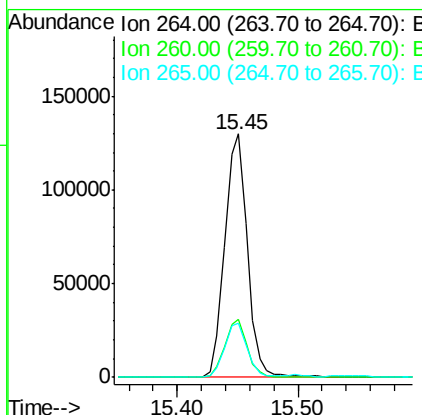
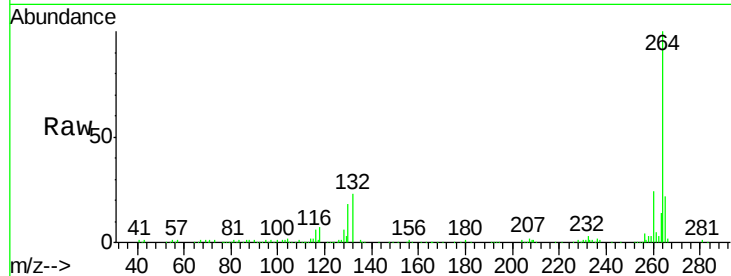




#86  
 Pervlene-d12  
 Concen: 20.00 ng  
 RT: 15.45 min Scan# 2272  
 Delta R.T. 0.01 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

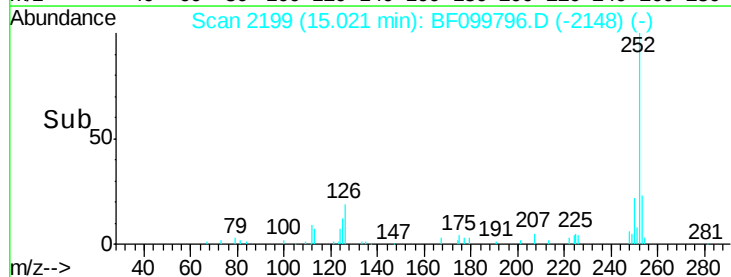
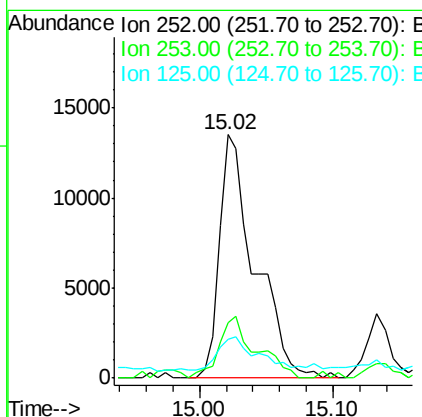
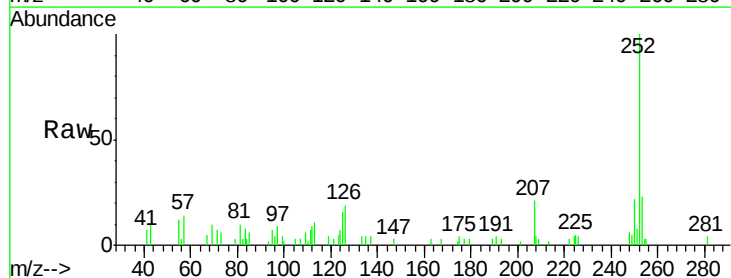
Instrument :  
 BNA\_F  
 ClientSampleId :

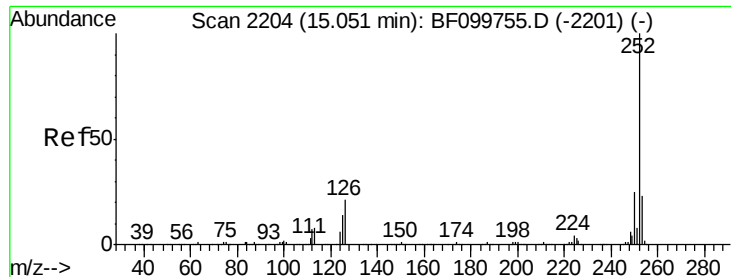
Tot Ion:264 Resp: 168482  
 Ion Ratio Lower Upper  
 264 100  
 260 23.8 19.2 28.8  
 265 22.2 17.5 26.3



#87  
 Benzo(b)fluoranthene  
 Concen: 2.37 ng  
 RT: 15.02 min Scan# 2199  
 Delta R.T. -0.00 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

Tgt Ion:252 Resp: 25162  
 Ion Ratio Lower Upper  
 252 100  
 253 22.7 17.0 25.6  
 125 16.1 9.0 13.6#

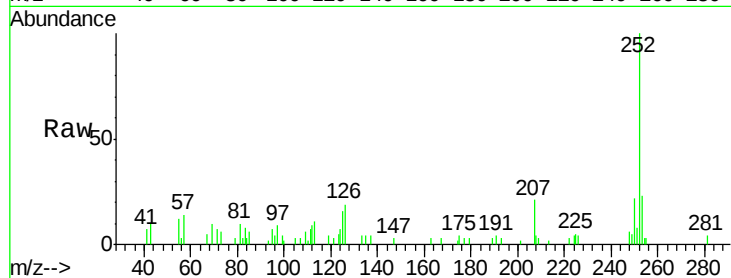




#88  
 Benzo(k)fluoranthene  
 Concen: 2.51 ng  
 RT: 15.02 min Scan# 2199  
 Delta R.T. -0.03 min  
 Lab File: BF099796.D  
 Acq: 24 Oct 2017 18:59

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.9  | 26.9  |
| 125     | 16.1  | 10.2  | 15.2  |



Abundance Ion 252.00 (251.70 to 252.70): E  
 Ion 253.00 (252.70 to 253.70): E  
 Ion 125.00 (124.70 to 125.70): E

