

Data Path : Z:\HPCHEM1\BNA F\DATA\BF102617\  
 Data File : BF099867.D  
 Acq On : 26 Oct 2017 17:58  
 Operator : SJ/JU  
 Sample : I6078-02  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 26 19:02:15 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 26 16:31:52 2017  
 Response via : Initial Calibration

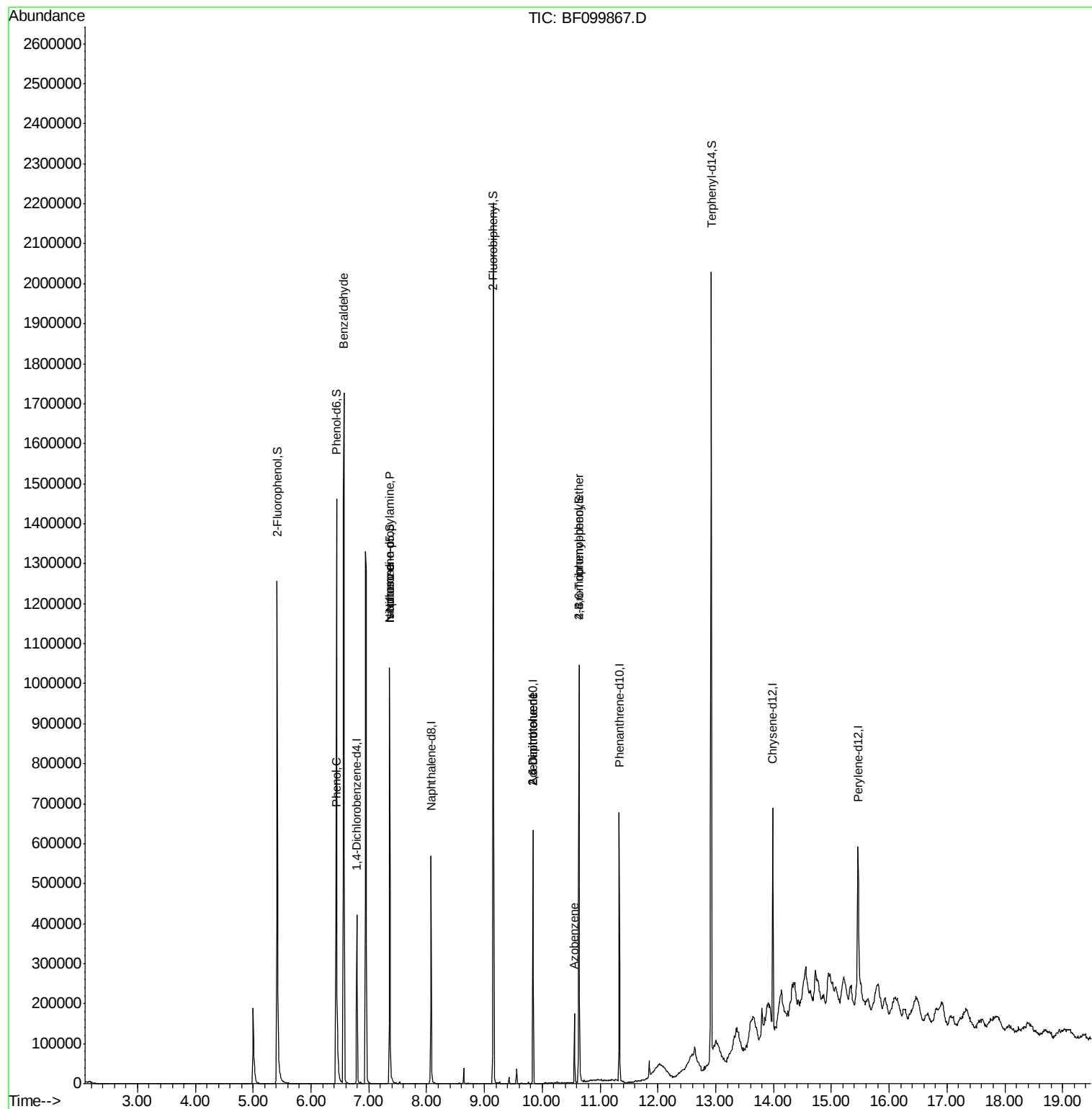
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.79  | 152  | 65937    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.07  | 136  | 268137   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.84  | 164  | 122370   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.33 | 188  | 220362   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.99 | 240  | 183987   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.46 | 264  | 163567   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.42  | 112  | 492479   | 117.26 | ng    | 0.01     |
| 7) Phenol-d6                   | 6.44  | 99   | 583180   | 117.11 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.36  | 82   | 330264   | 79.30  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 132081   | 118.44 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.16  | 172  | 697656   | 87.96  | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.92 | 244  | 639818   | 76.00  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.57  | 77   | 8903     | 2.992  | ng    | 94       |
| 10) Phenol                     | 6.45  | 94   | 27745    | 5.074  | ng    | 92       |
| 19) n-Nitroso-di-n-propylamine | 7.36  | 70   | 40208    | 13.778 | ng    | # 70     |
| 25) Isophorone                 | 7.36  | 82   | 330264   | 43.700 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.84  | 165  | 15000    | 7.363  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.84  | 165  | 15000    | 6.114  | ng    | # 21     |
| 62) Azobenzene                 | 10.56 | 77   | 28513    | 3.594  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.63 | 248  | 8526     | 3.675  | ng    | # 1      |

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

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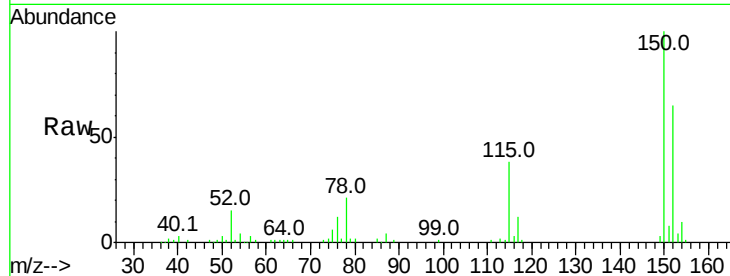


#1

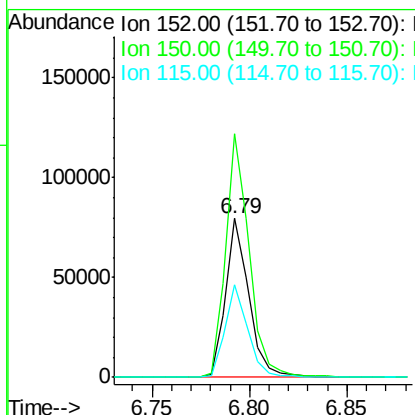
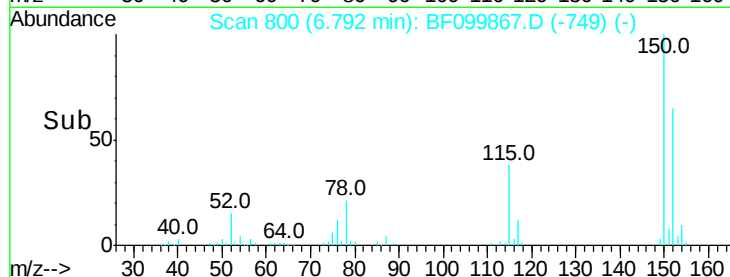
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.79 min Scan# 800  
 Delta R.T. 0.00 min  
 Lab File: BF099867.D  
 Acq: 26 Oct 2017 17:58

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:152 Resp: 65937  
 Ion Ratio Lower Upper  
 152 100  
 150 153.2 124.6 186.8  
 115 58.0 50.1 75.1



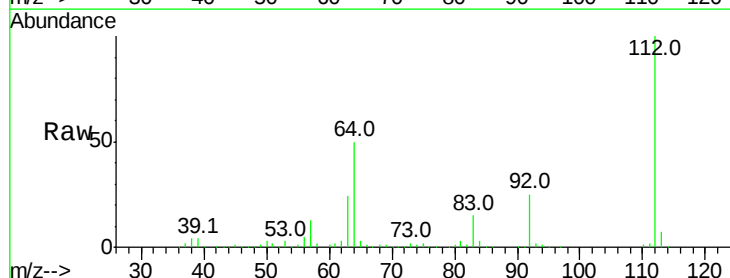
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



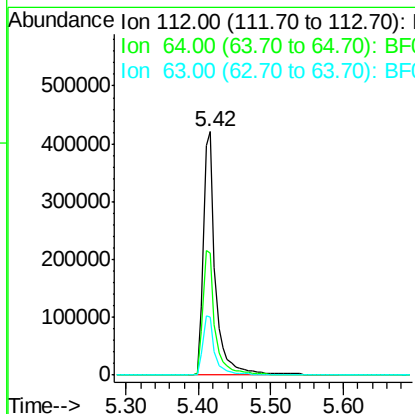
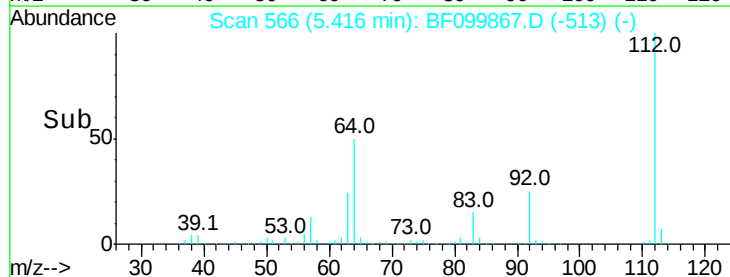
#5

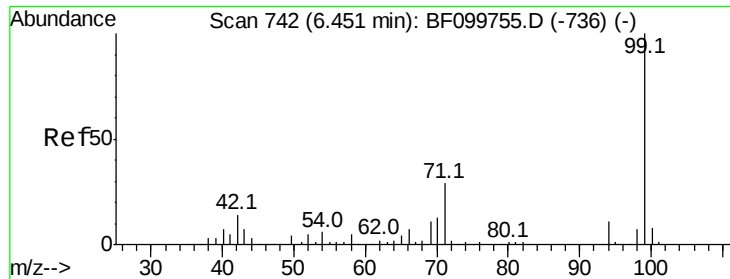
2-Fluorophenol  
 Concen: 117.260 ng  
 RT: 5.42 min Scan# 566  
 Delta R.T. 0.01 min  
 Lab File: BF099867.D  
 Acq: 26 Oct 2017 17:58

Tgt Ion:112 Resp: 492479  
 Ion Ratio Lower Upper  
 112 100  
 64 50.2 47.9 71.9  
 63 24.0 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: 117.107 ng

RT: 6.44 min Scan# 740

Delta R.T. 0.01 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

Instrument :

BNA\_F

ClientSampleId :

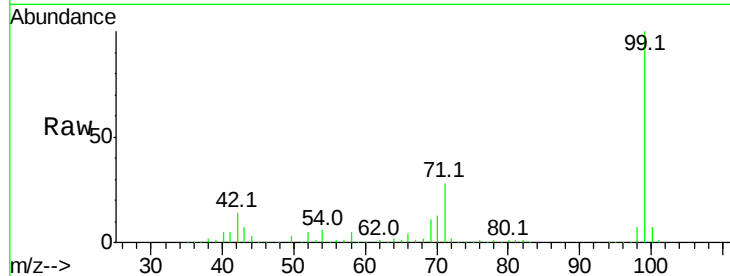
Tot Ion: 99 Resp: 583180

Ion Ratio Lower Upper

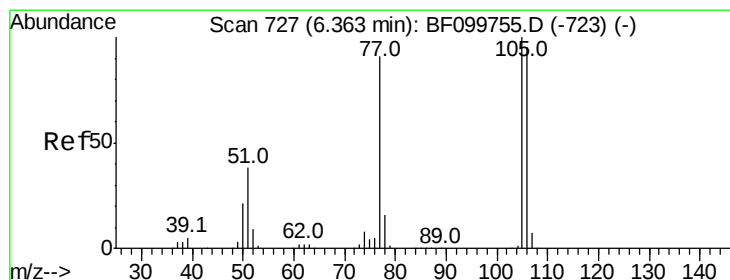
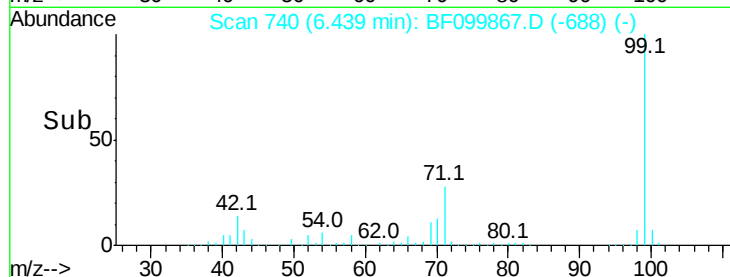
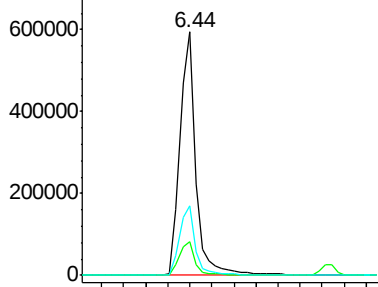
99 100

42 13.6 14.5 21.7#

71 28.4 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: 2.992 ng

RT: 6.57 min Scan# 762

Delta R.T. 0.22 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

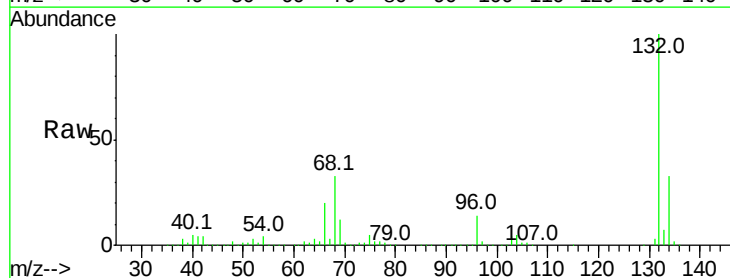
Tgt Ion: 77 Resp: 8903

Ion Ratio Lower Upper

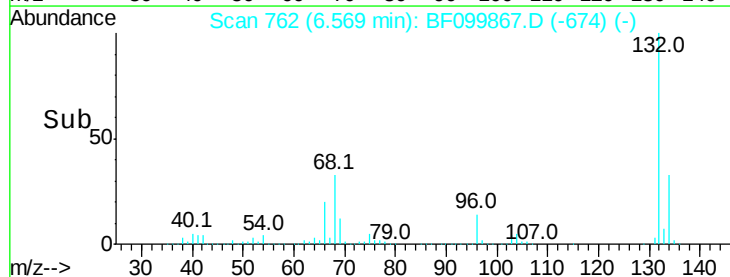
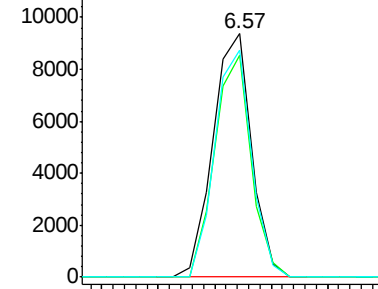
77 100

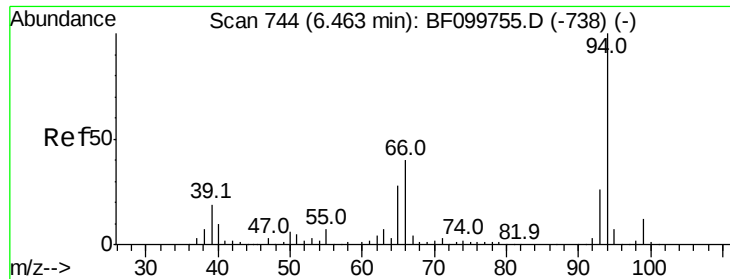
105 91.2 81.1 121.1

106 93.1 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: 5.074 ng

RT: 6.45 min Scan# 742

Delta R.T. 0.00 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

Instrument :

BNA\_F

ClientSampled :

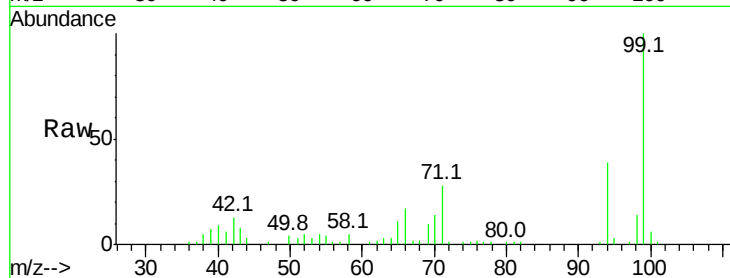
Tot Ion: 94 Resp: 27745

Ion Ratio Lower Upper

94 100

65 27.4 7.9 47.9

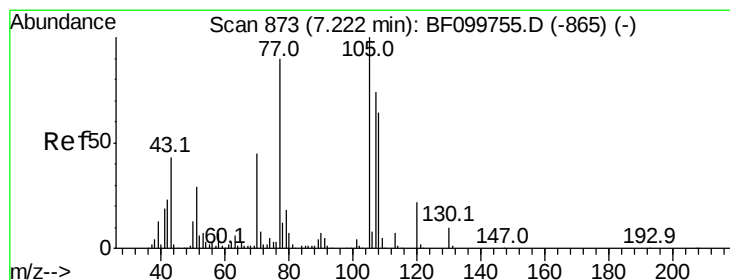
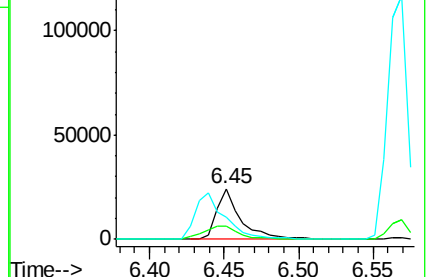
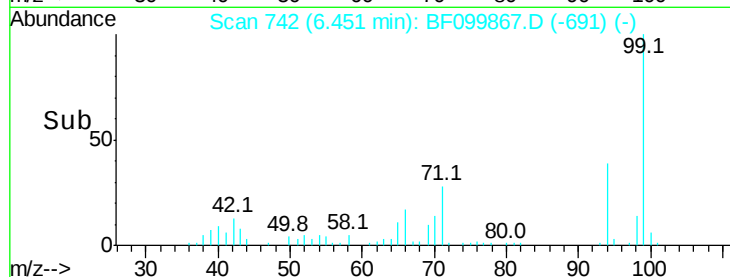
66 43.9 16.2 56.2



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: 13.778 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.15 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

Tgt Ion: 70 Resp: 40208

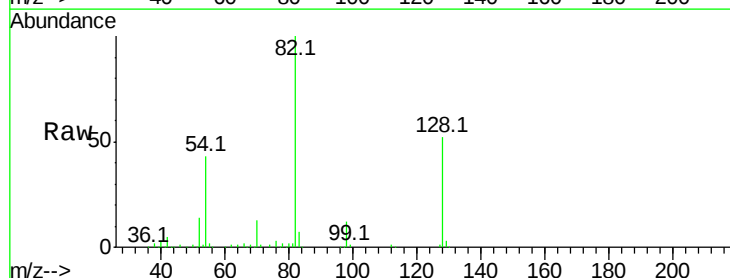
Ion Ratio Lower Upper

70 100

42 38.7 47.5 71.3#

101 0.0 7.4 11.2#

130 1.9 16.6 25.0#

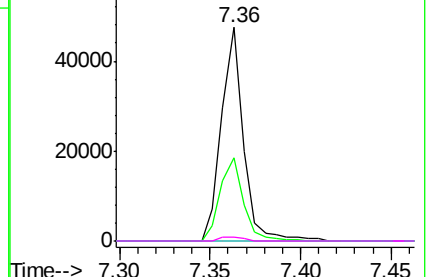
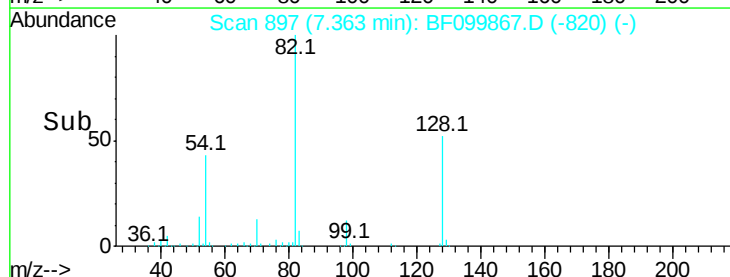


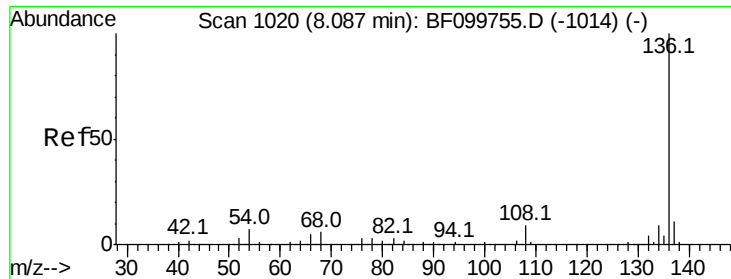
Abundance Ion 70.00 (69.70 to 70.70): BF0

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

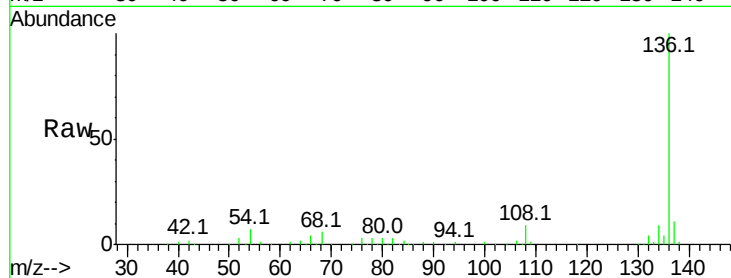




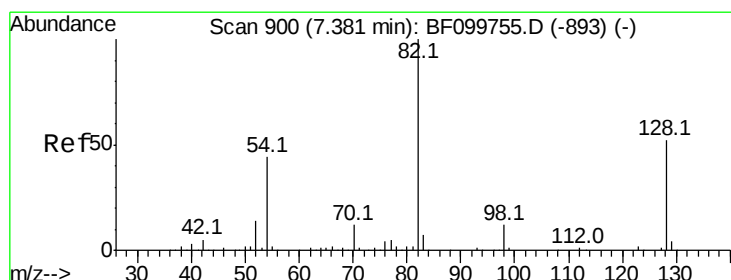
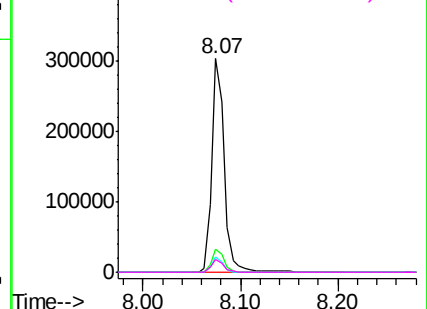
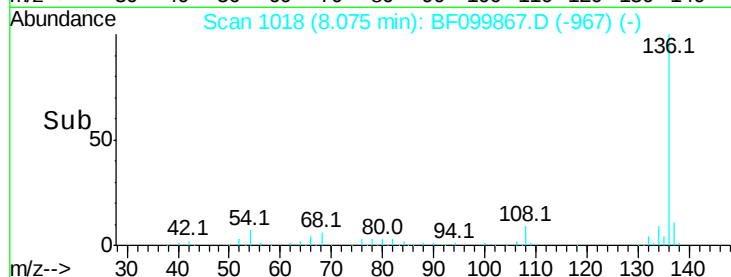
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.07 min Scan# 1018  
Delta R.T. 0.00 min  
Lab File: BF099867.D  
Acq: 26 Oct 2017 17:58

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 268137 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 7.0   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |

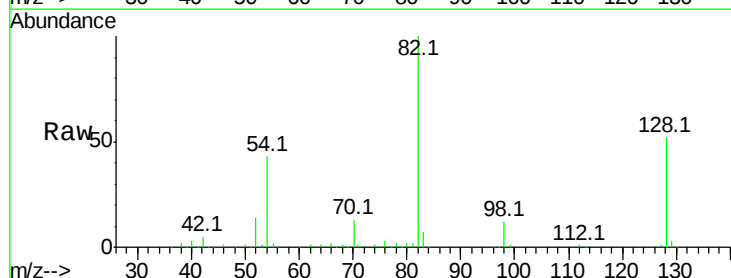


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

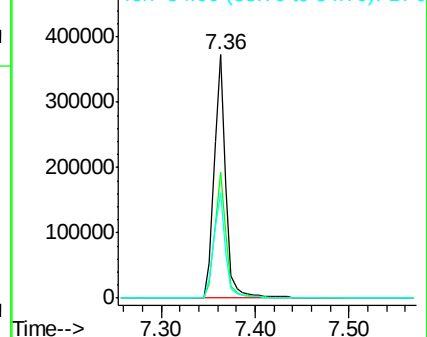
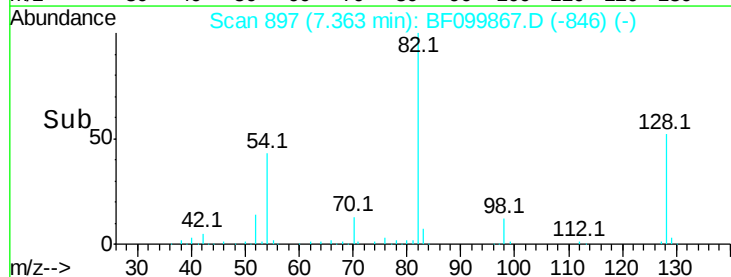


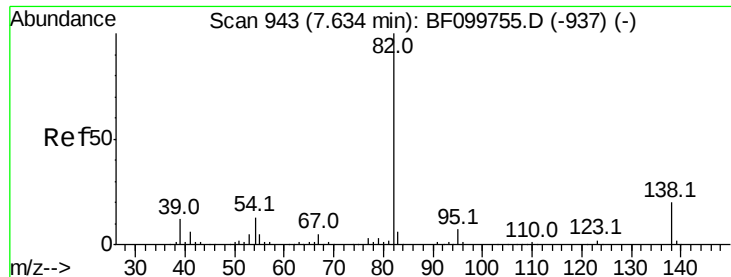
#23  
Nitrobenzene-d5  
Concen: 79.297 ng  
RT: 7.36 min Scan# 897  
Delta R.T. 0.00 min  
Lab File: BF099867.D  
Acq: 26 Oct 2017 17:58

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 330264 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 51.6  | 36.1  | 54.1   |
| 54       | 43.3  | 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: 43.700 ng

RT: 7.36 min Scan# 897

Delta R.T. -0.25 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

Instrument :

BNA\_F

ClientSampleId :

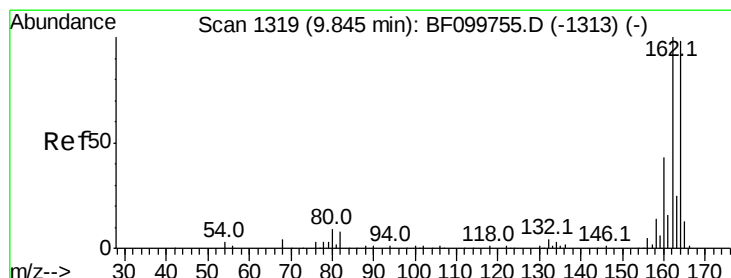
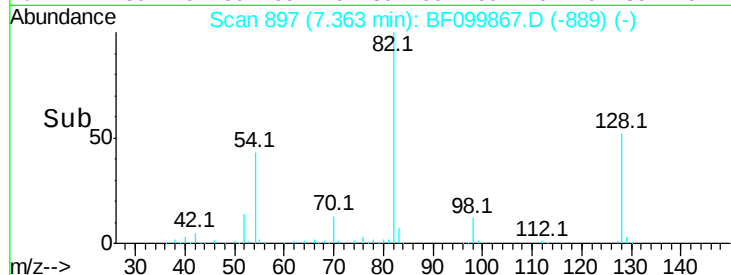
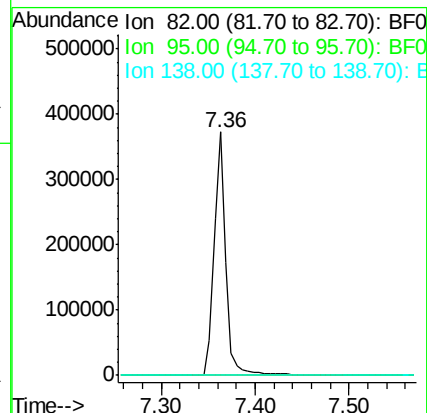
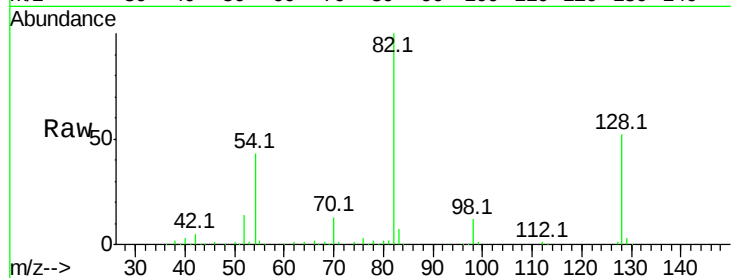
Tot Ion: 82 Resp: 330264

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: 9.84 min Scan# 1318

Delta R.T. 0.00 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

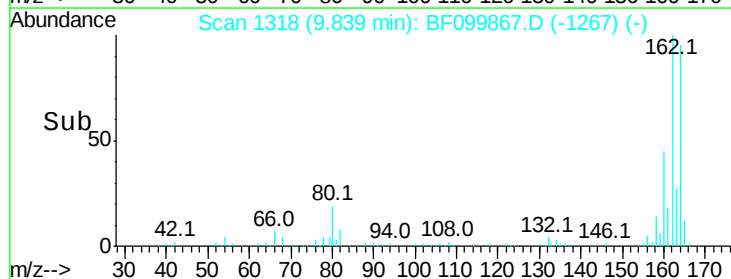
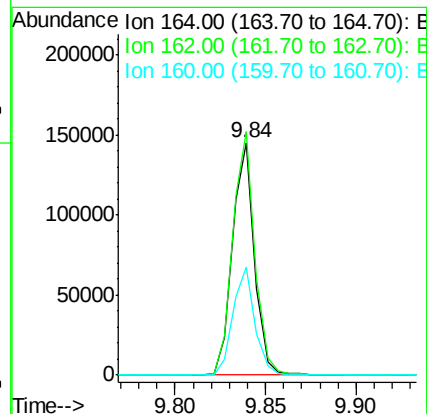
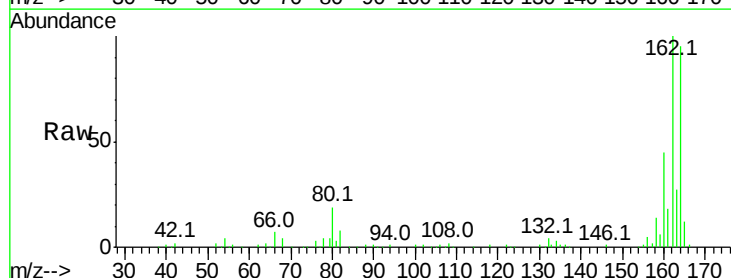
Tgt Ion:164 Resp: 122370

Ion Ratio Lower Upper

164 100

162 104.8 86.1 129.1

160 46.7 38.3 57.5

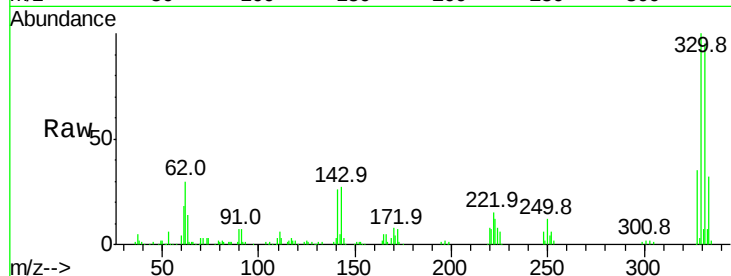




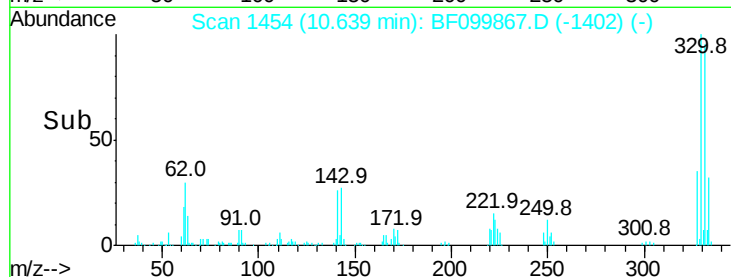
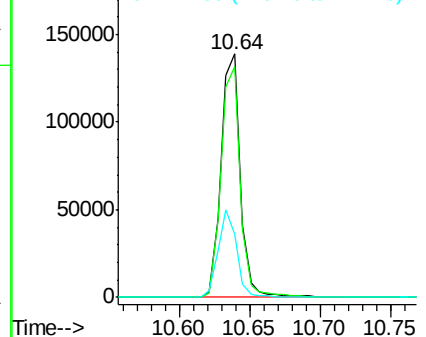
#41  
 2,4,6-Tribromophenol  
 Concen: 118.439 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. 0.01 min  
 Lab File: BF099867.D  
 Acq: 26 Oct 2017 17:58

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.2  | 77.0  | 115.6 |
| 141     | 34.5  | 29.9  | 44.9  |

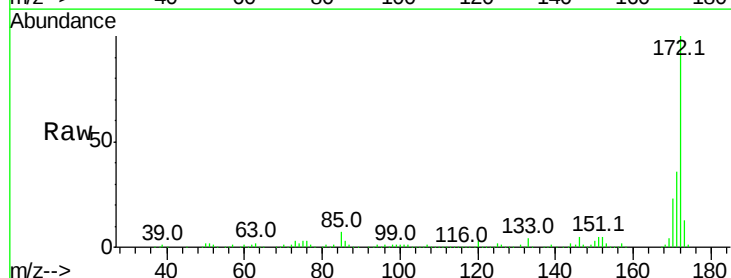


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

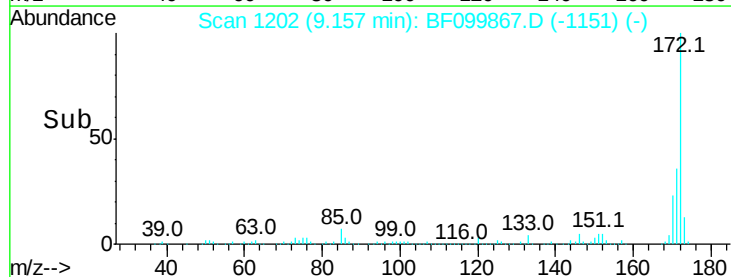
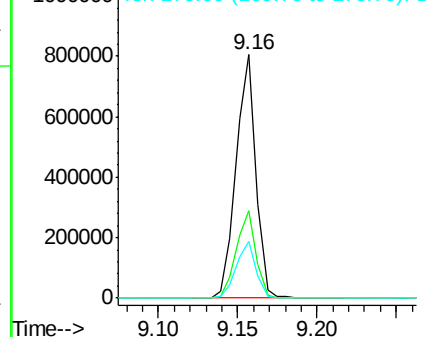


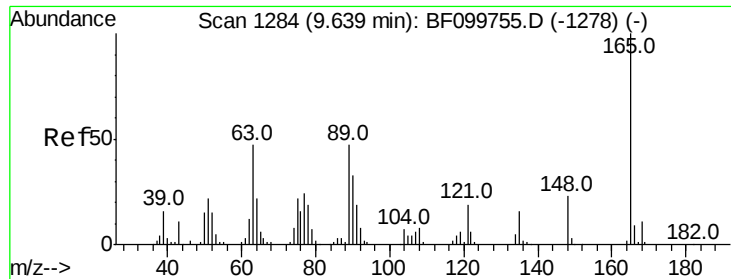
#44  
 2-Fluorobiphenyl  
 Concen: 87.960 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: BF099867.D  
 Acq: 26 Oct 2017 17:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 29.7  | 44.5  |
| 170     | 23.5  | 19.6  | 29.4  |



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

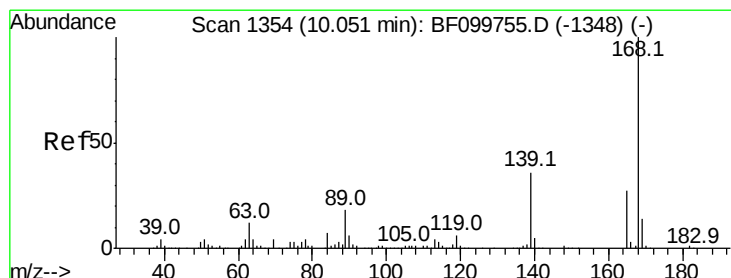
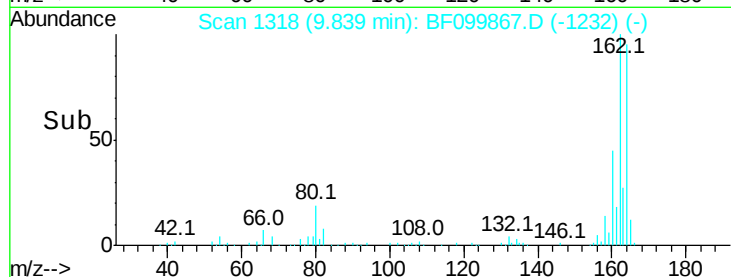
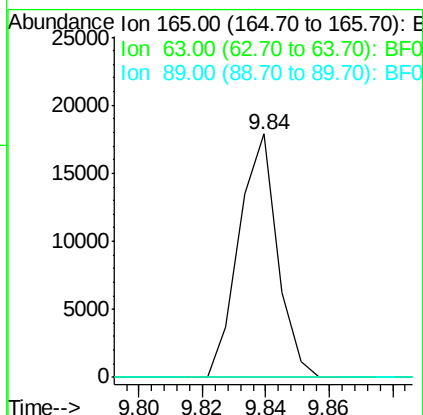
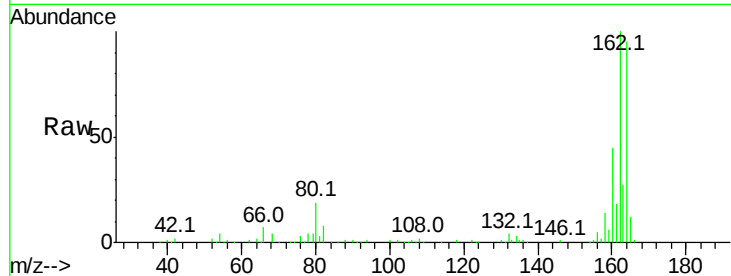




#50  
 2,6-Dinitrotoluene  
 Concen: 7.363 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. 0.21 min  
 Lab File: BF099867.D  
 Acq: 26 Oct 2017 17:58

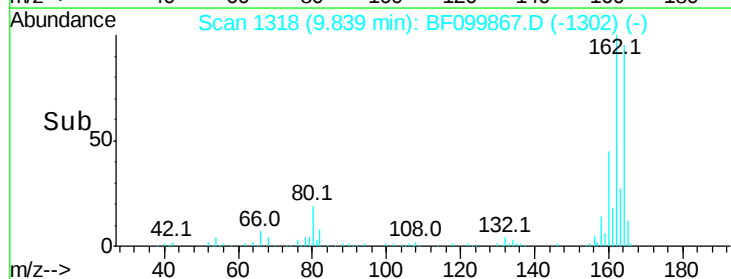
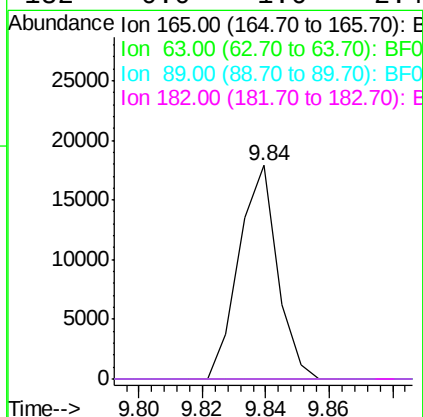
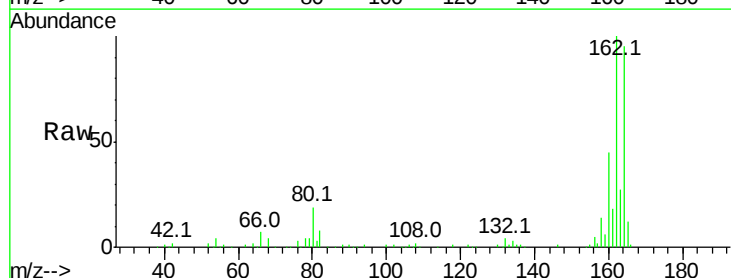
Instrument :  
 BNA\_F  
 ClientSampleId :

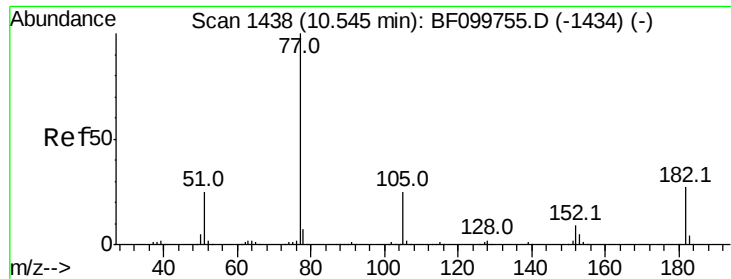
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.114 ng  
 RT: 9.84 min Scan# 1318  
 Delta R.T. -0.21 min  
 Lab File: BF099867.D  
 Acq: 26 Oct 2017 17:58

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





#62

Azobenzene

Concen: 3.594 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.02 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 77 Resp: 28513

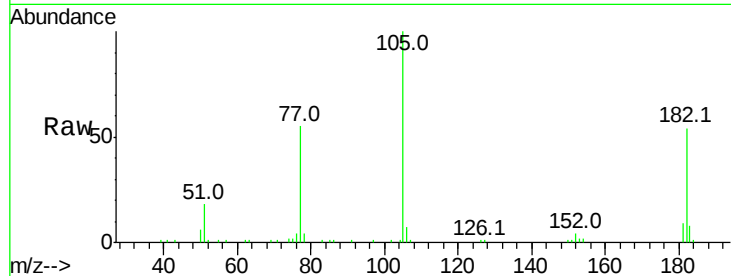
Ion Ratio Lower Upper

77 100

182 98.9 1.7 41.7#

105 183.1 3.0 43.0#

51 32.9 9.9 49.9

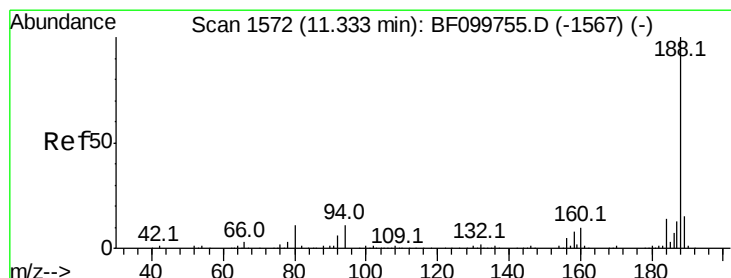
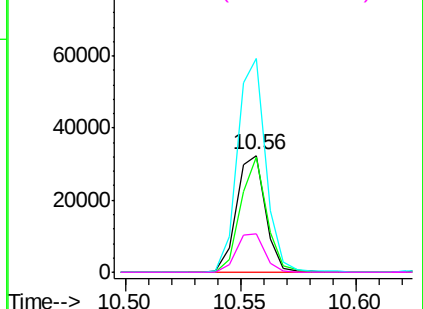
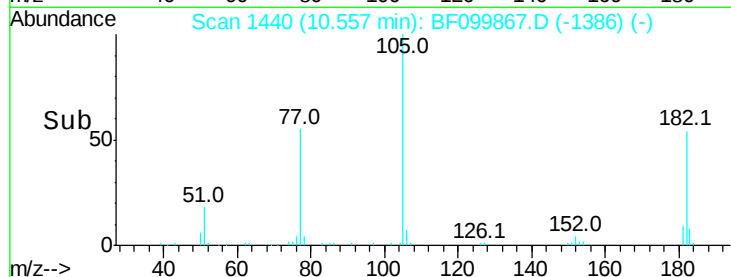


Abundance Ion 77.00 (76.70 to 77.70): BF0

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: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

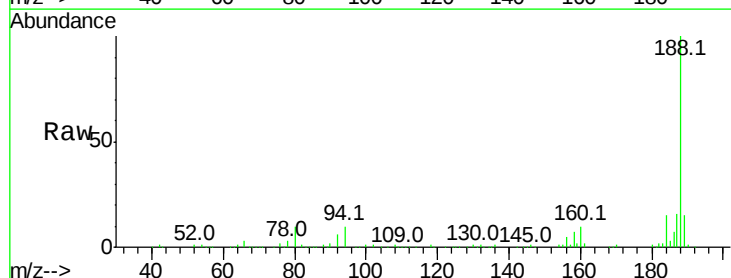
Tgt Ion: 188 Resp: 220362

Ion Ratio Lower Upper

188 100

94 10.2 8.5 12.7

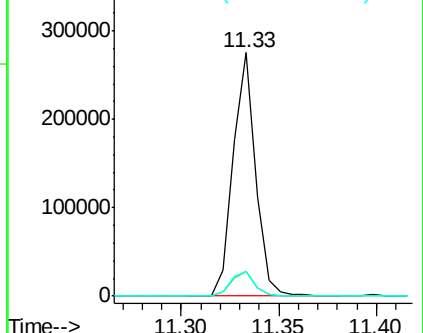
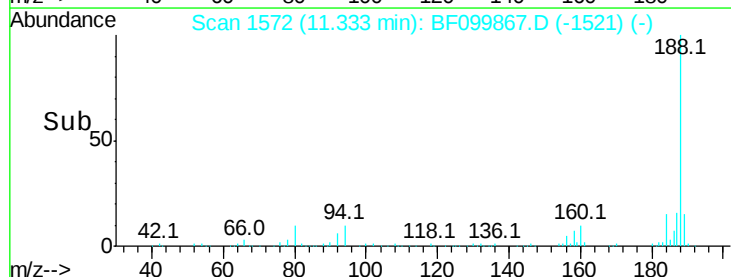
80 9.9 9.2 13.8



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

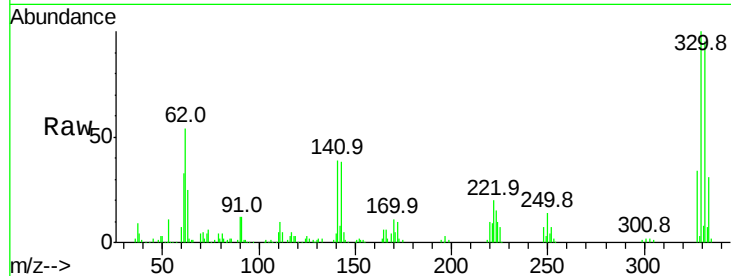




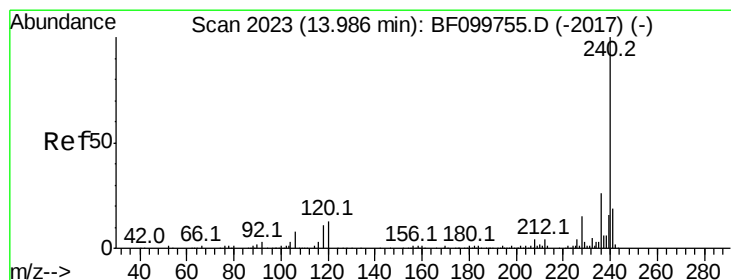
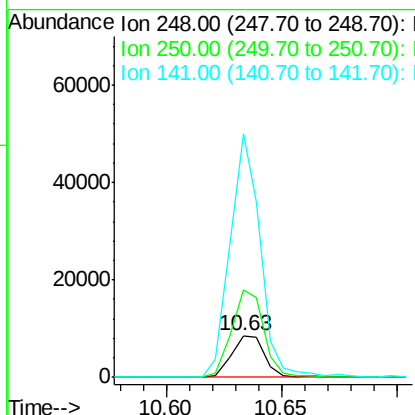
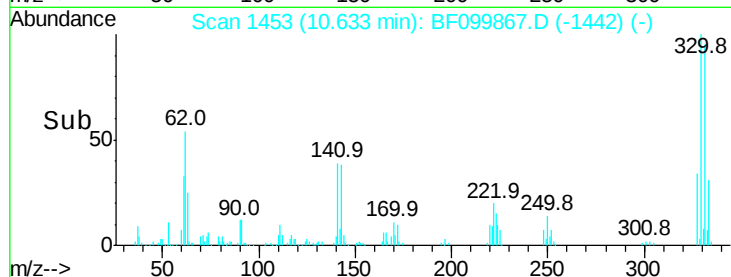
#66  
4-Bromophenyl-phenylether  
Concen: 3.675 ng  
RT: 10.63 min Scan# 1453  
Delta R.T. -0.24 min  
Lab File: BF099867.D  
Acq: 26 Oct 2017 17:58

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 8526  
Ion Ratio Lower Upper  
248 100  
250 208.9 76.9 115.3#  
141 584.0 74.4 111.6#

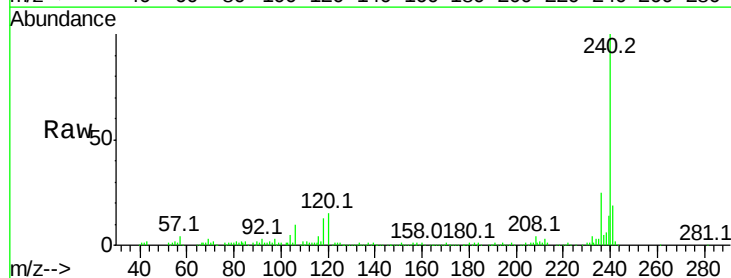


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

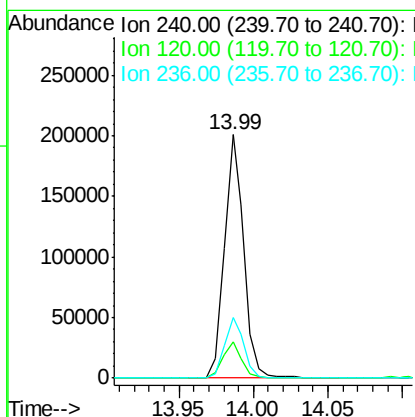
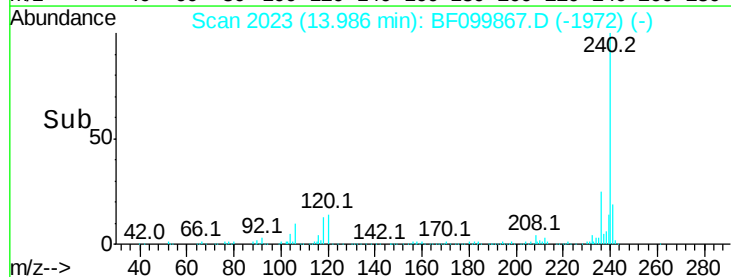


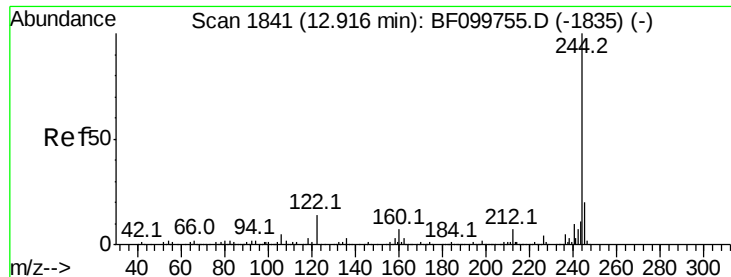
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. 0.00 min  
Lab File: BF099867.D  
Acq: 26 Oct 2017 17:58

Tgt Ion:240 Resp: 183987  
Ion Ratio Lower Upper  
240 100  
120 14.7 9.5 14.3#  
236 25.0 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





#78

Terphenyl-d14

Concen: 75.997 ng

RT: 12.92 min Scan# 1842

Delta R.T. 0.01 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

Instrument :

BNA\_F

ClientSampleId :

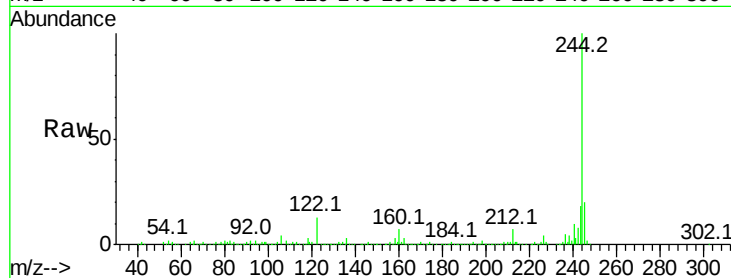
Tot Ion:244 Resp: 639818

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

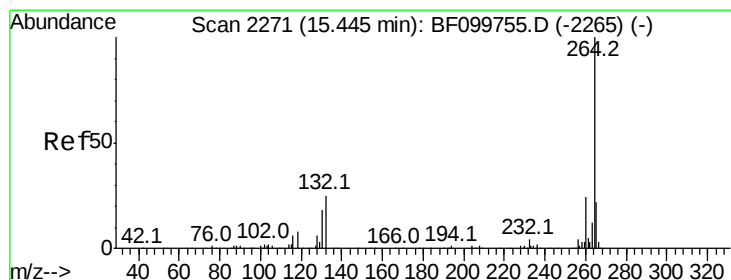
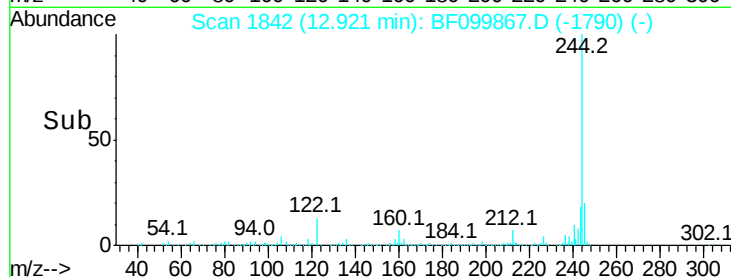
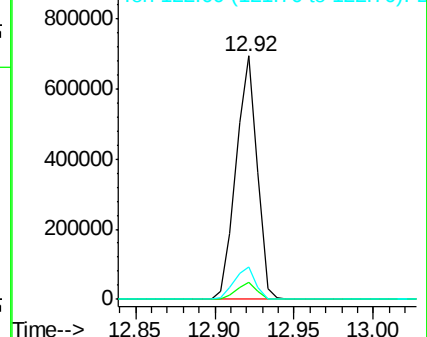
122 13.2 11.0 16.4



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: 15.46 min Scan# 2274

Delta R.T. 0.01 min

Lab File: BF099867.D

Acq: 26 Oct 2017 17:58

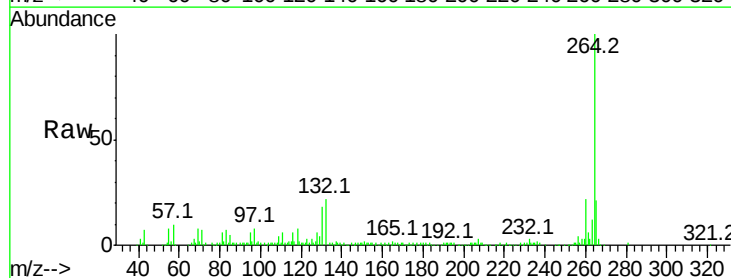
Tgt Ion:264 Resp: 163567

Ion Ratio Lower Upper

264 100

260 22.1 19.2 28.8

265 21.1 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

