

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101817\  
 Data File : BF099652.D  
 Acq On : 19 Oct 2017 8:16  
 Operator : SJ/JU  
 Sample : I5952-03  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

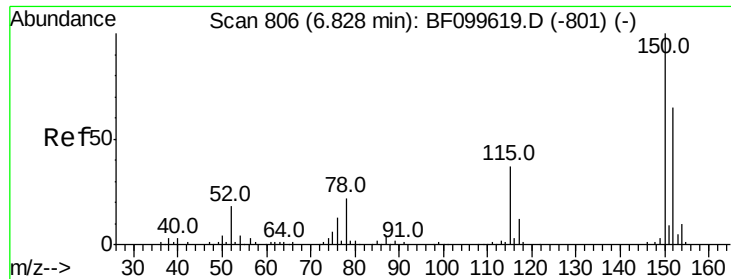
Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 19 16:25:34 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 18 22:24:53 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 84587    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.11  | 136  | 300786   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.86  | 164  | 107008   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.35 | 188  | 170842   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.99 | 240  | 180708   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.46 | 264  | 143043   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 634729   | 119.45 | ng    | 0.02     |
| 7) Phenol-d6                   | 6.47  | 99   | 647766   | 98.82  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 463657   | 98.86  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 121804   | 139.11 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.18  | 172  | 783183   | 122.18 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.93 | 244  | 648827   | 81.65  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.60  | 77   | 12438    | 3.271  | ng    | 86       |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 57742    | 13.797 | ng    | # 71     |
| 25) Isophorone                 | 7.40  | 82   | 463650   | 47.813 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165  | 13412    | 7.628  | ng    | # 24     |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 13412    | 5.877  | ng    | # 21     |
| 66) 4-Bromophenyl-phenylether  | 10.65 | 248  | 8270     | 4.945  | ng    | # 1      |

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



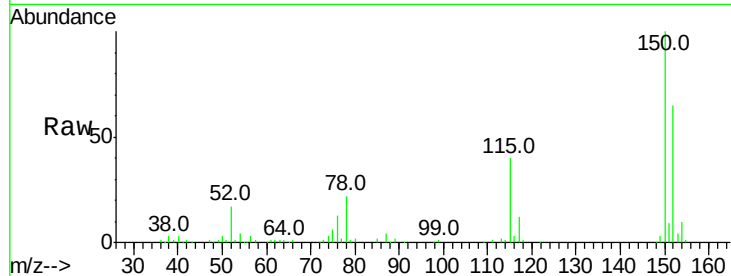


#1

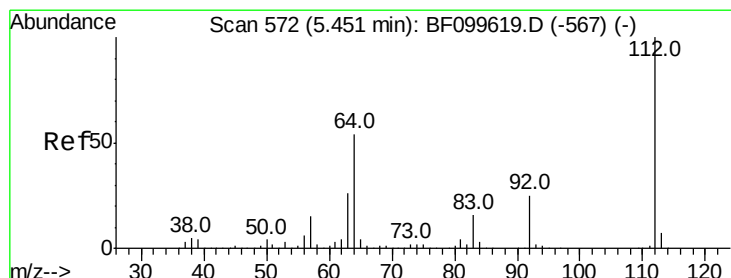
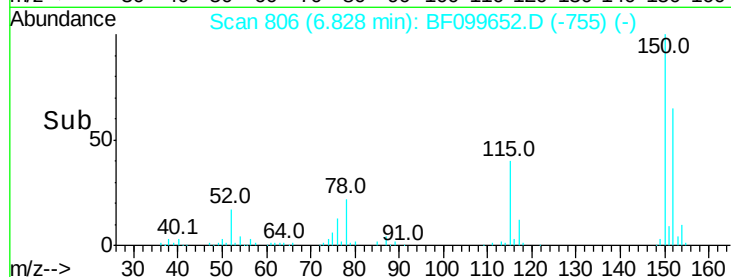
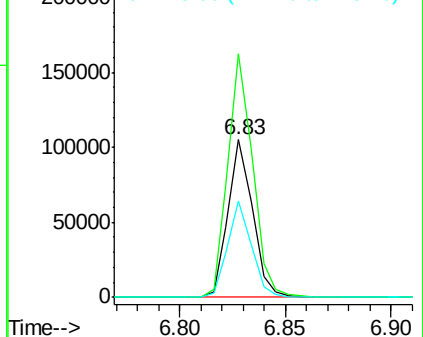
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 84587  
Ion Ratio Lower Upper  
152 100  
150 154.5 124.6 186.8  
115 61.2 50.1 75.1



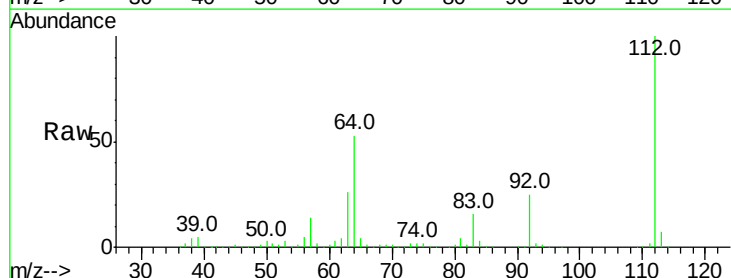
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



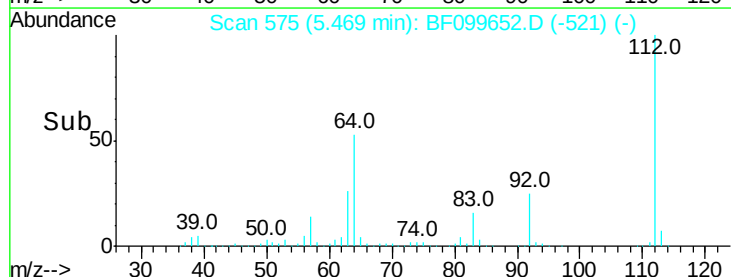
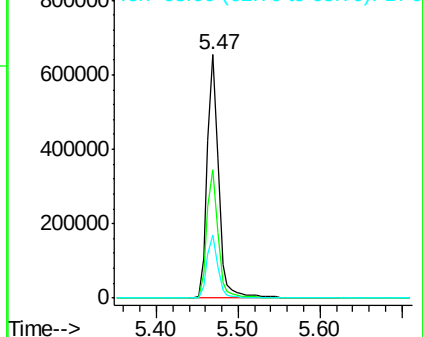
#5

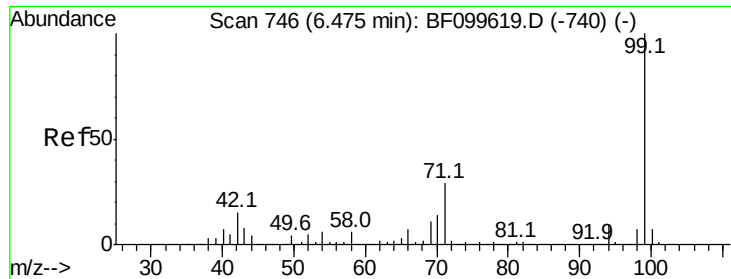
2-Fluorophenol  
Concen: 119.454 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.02 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

Tgt Ion:112 Resp: 634729  
Ion Ratio Lower Upper  
112 100  
64 52.9 47.9 71.9  
63 25.9 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: 98.822 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF099652.D

Acq: 19 Oct 2017 8:16

Instrument :

BNA\_F

ClientSampleId :

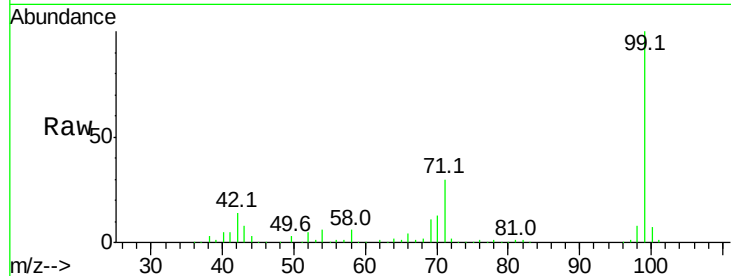
Tot Ion: 99 Resp: 647766

Ion Ratio Lower Upper

99 100

42 14.2 14.5 21.7#

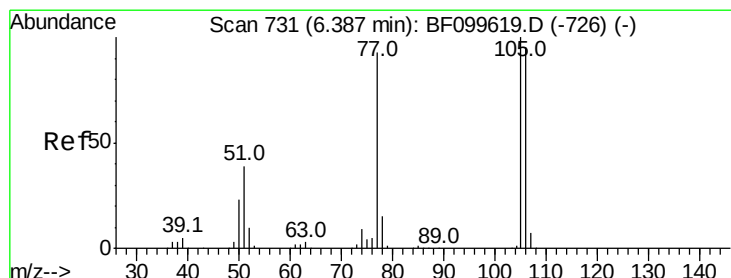
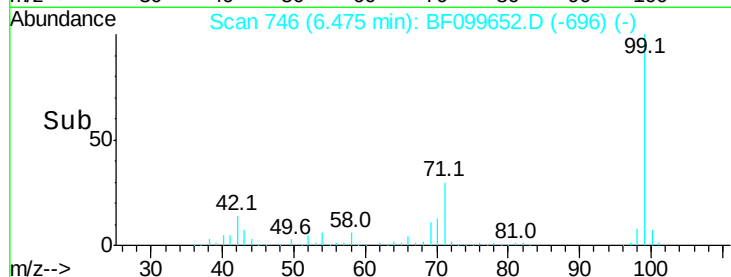
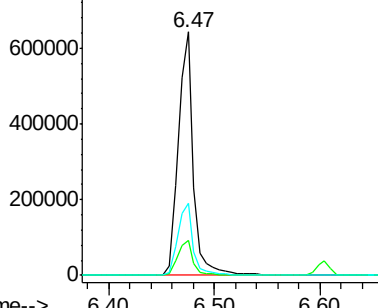
71 29.5 25.4 38.0



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: 3.271 ng

RT: 6.60 min Scan# 768

Delta R.T. 0.22 min

Lab File: BF099652.D

Acq: 19 Oct 2017 8:16

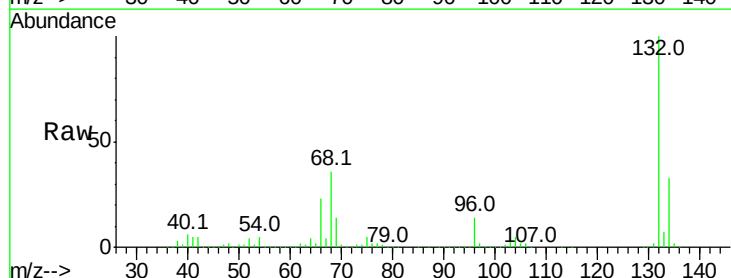
Tgt Ion: 77 Resp: 12438

Ion Ratio Lower Upper

77 100

105 82.3 81.1 121.1

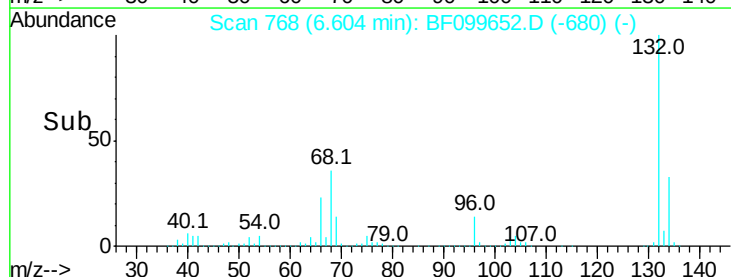
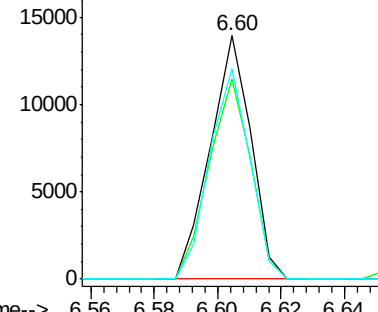
106 86.6 74.5 114.5

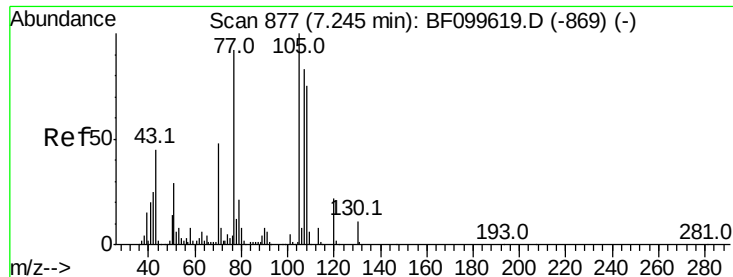


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E

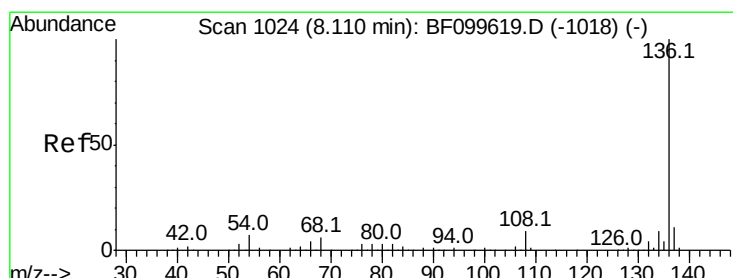
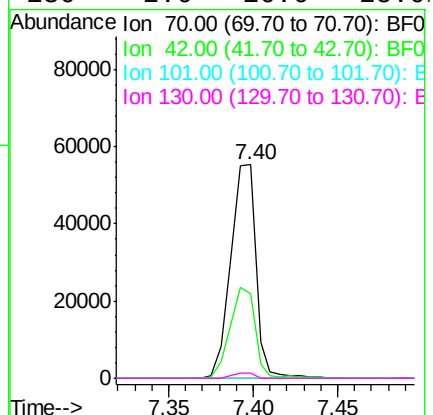
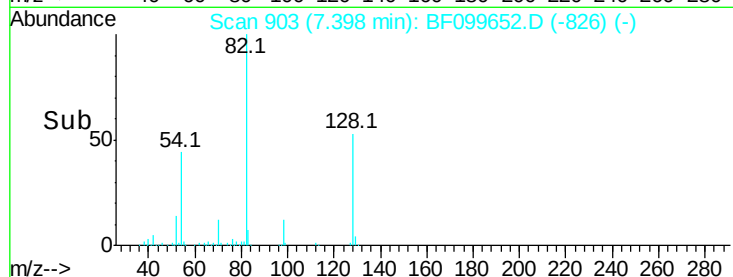
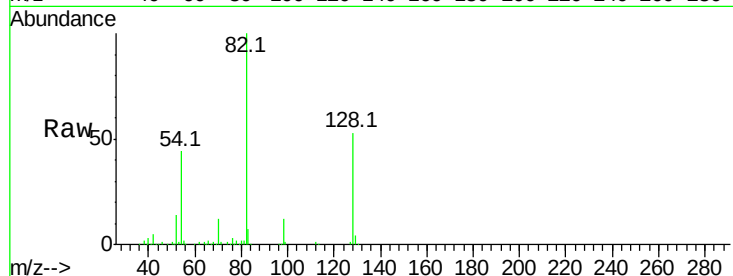




#19  
n-Nitroso-di-n-propylamine  
Concen: 13.797 ng  
RT: 7.40 min Scan# 903  
Delta R.T. 0.15 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

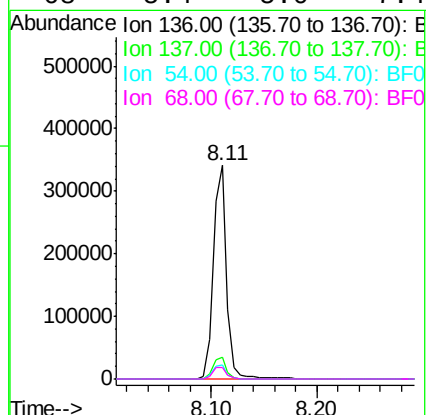
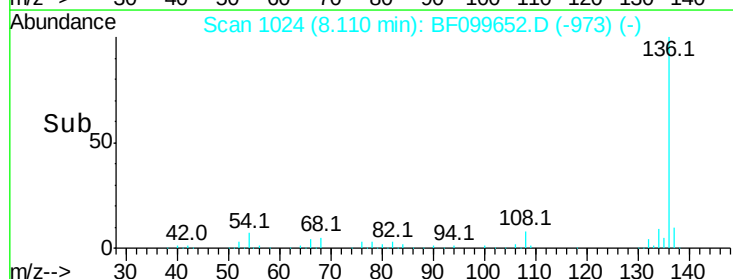
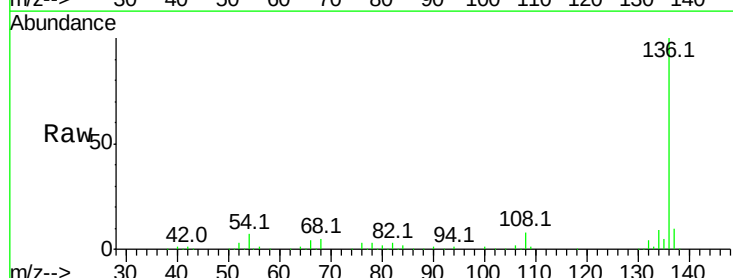
Instrument :  
BNA\_F  
ClientSampleId :

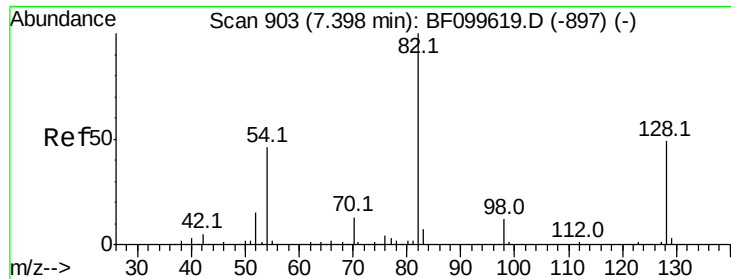
Tot Ion: 70 Resp: 57742  
Ion Ratio Lower Upper  
70 100  
42 39.5 47.5 71.3#  
101 0.0 7.4 11.2#  
130 2.6 16.6 25.0#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.11 min Scan# 1024  
Delta R.T. 0.00 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

Tgt Ion:136 Resp: 300786  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.9 13.3  
54 6.6 6.6 9.8  
68 5.4 5.0 7.4

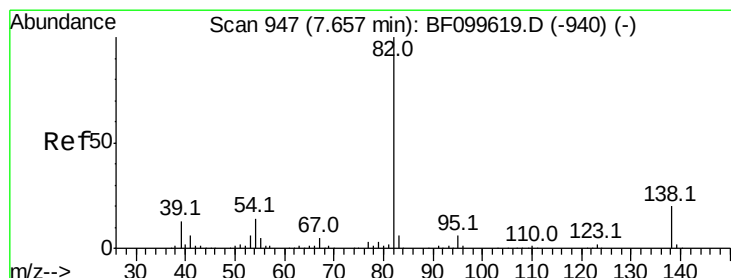
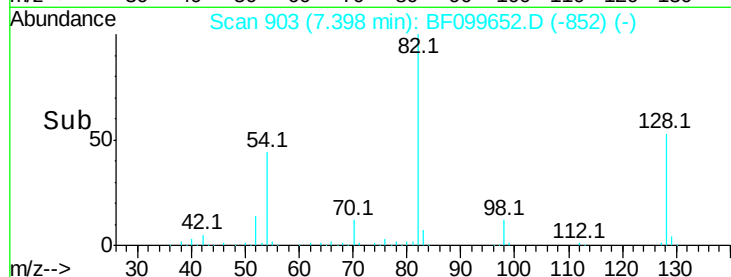
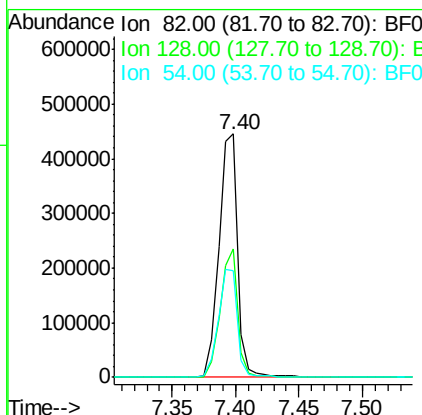
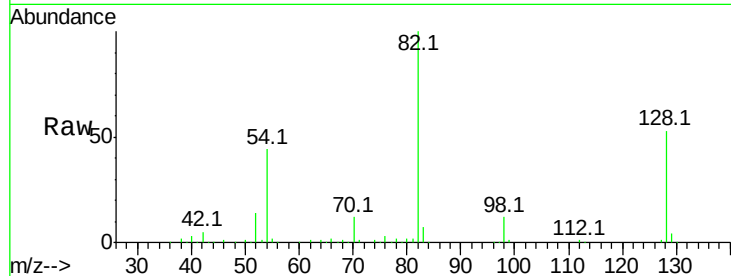




#23  
 Nitrobenzene-d5  
 Concen: 98.856 ng  
 RT: 7.40 min Scan# 903  
 Delta R.T. 0.00 min  
 Lab File: BF099652.D  
 Acq: 19 Oct 2017 8:16

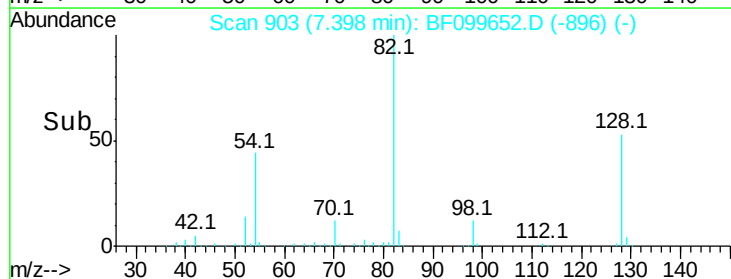
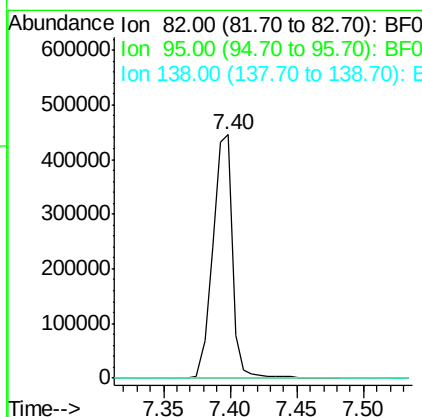
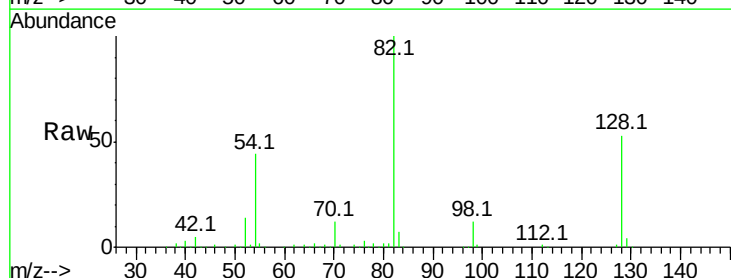
Instrument :  
 BNA\_F  
 ClientSampled :

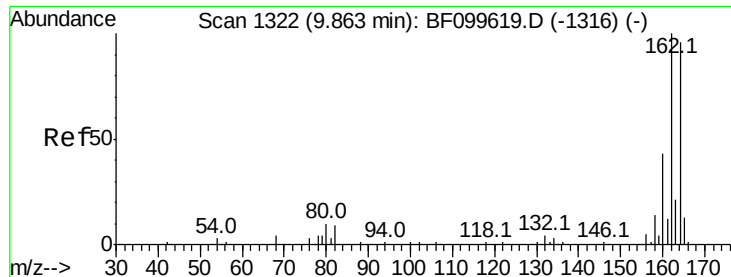
| Tot Ion | 82    | Resp  | 463657 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 128     | 52.6  | 36.1  | 54.1   |
| 54      | 43.6  | 41.4  | 62.2   |



#25  
 Isophorone  
 Concen: 47.813 ng  
 RT: 7.40 min Scan# 903  
 Delta R.T. -0.26 min  
 Lab File: BF099652.D  
 Acq: 19 Oct 2017 8:16

| Tgt Ion | 82    | Resp  | 463650 |
|---------|-------|-------|--------|
| Ion     | Ratio | Lower | Upper  |
| 82      | 100   |       |        |
| 95      | 0.0   | 5.2   | 7.8#   |
| 138     | 0.0   | 14.9  | 22.3#  |

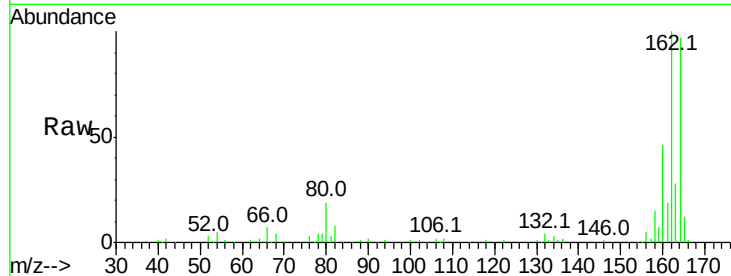




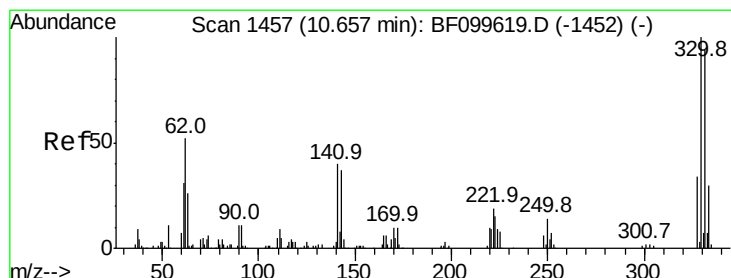
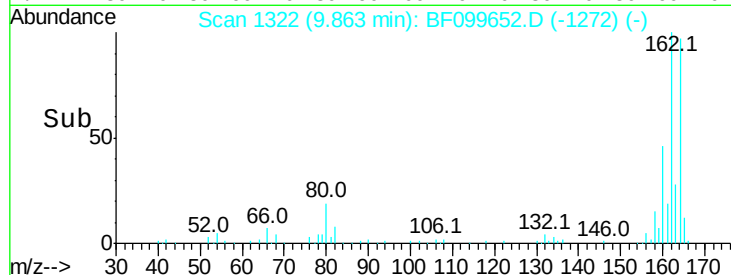
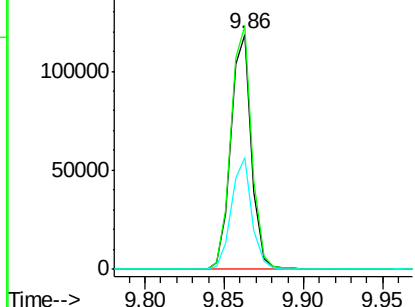
#38  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. -0.01 min  
 Lab File: BF099652.D  
 Acq: 19 Oct 2017 8:16

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:164 Resp: 107008  
 Ion Ratio Lower Upper  
 164 100  
 162 103.6 86.1 129.1  
 160 47.8 38.3 57.5

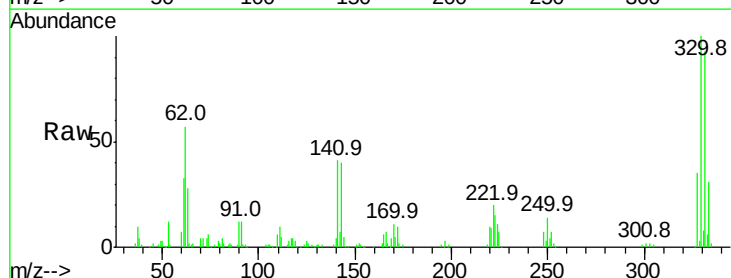


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

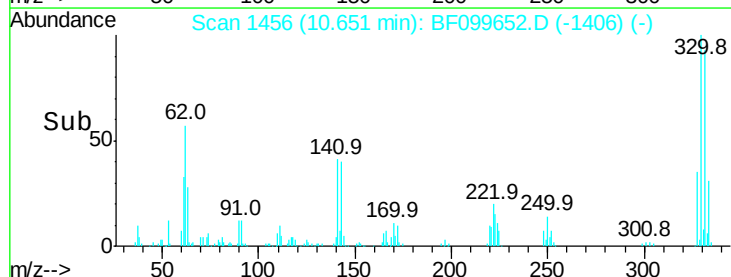
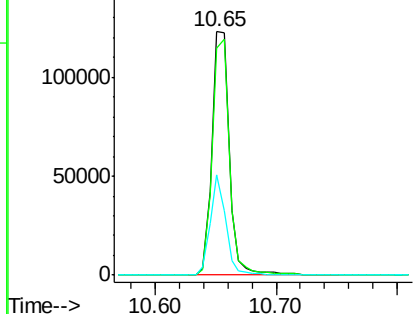


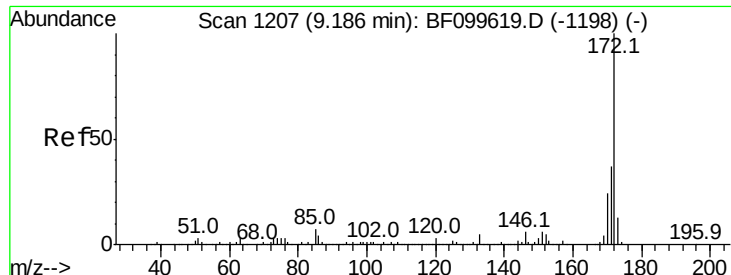
#41  
 2,4,6-Tribromophenol  
 Concen: 139.107 ng  
 RT: 10.65 min Scan# 1456  
 Delta R.T. -0.01 min  
 Lab File: BF099652.D  
 Acq: 19 Oct 2017 8:16

Tgt Ion:330 Resp: 121804  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 77.0 115.6  
 141 37.1 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

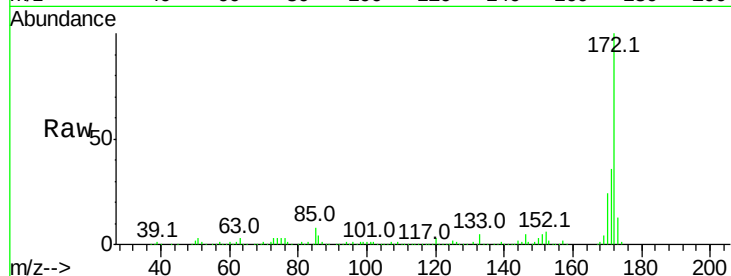




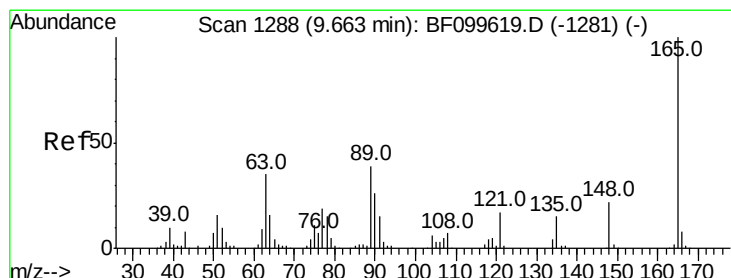
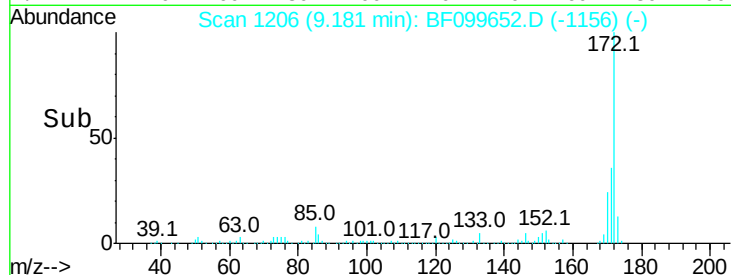
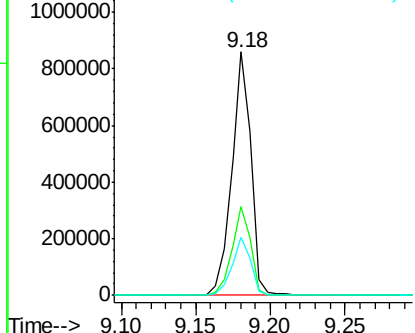
#44  
2-Fluorobiphenyl  
Concen: 122.183 ng  
RT: 9.18 min Scan# 1206  
Delta R.T. -0.01 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 29.7  | 44.5  |
| 170     | 23.9  | 19.6  | 29.4  |

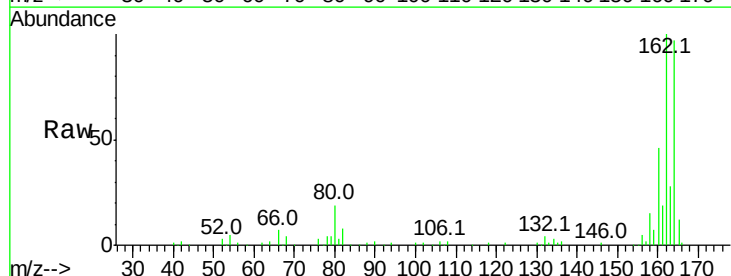


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

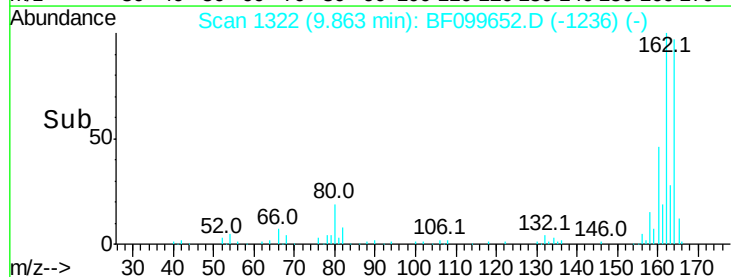
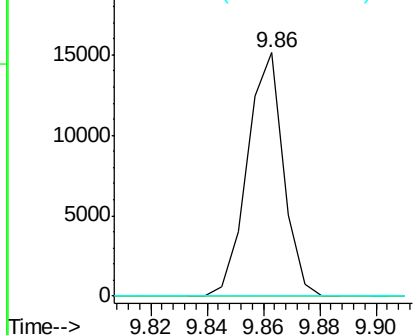


#50  
2,6-Dinitrotoluene  
Concen: 7.628 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. 0.21 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

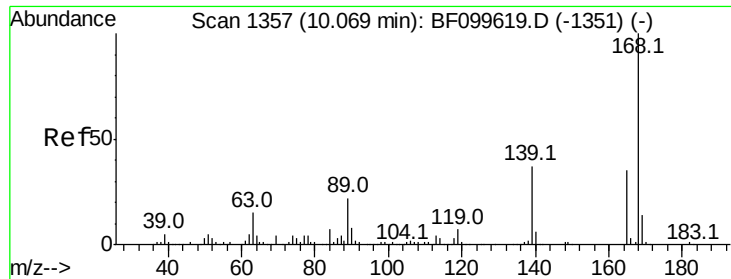
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 0.0   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



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



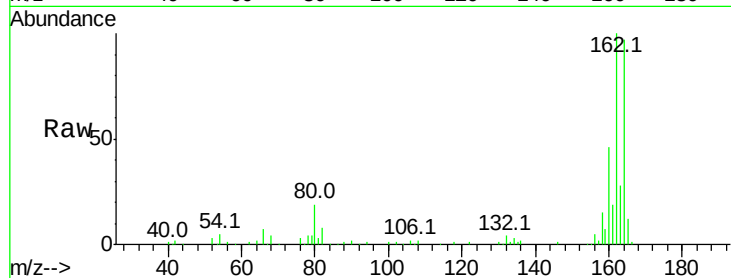




#56  
 2,4-Dinitrotoluene  
 Concen: 5.877 ng  
 RT: 9.86 min Scan# 1322  
 Delta R.T. -0.21 min  
 Lab File: BF099652.D  
 Acq: 19 Oct 2017 8:16

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 13412 |
| 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#  |

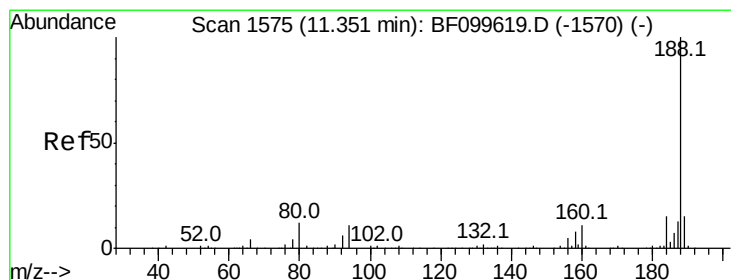
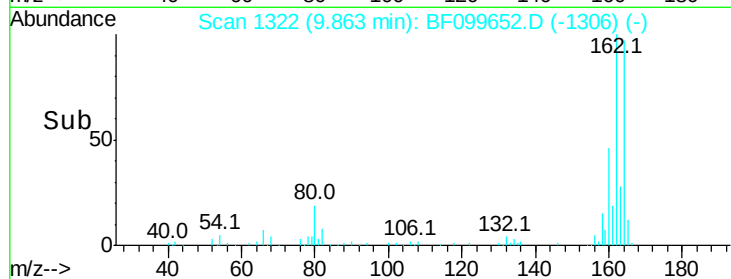
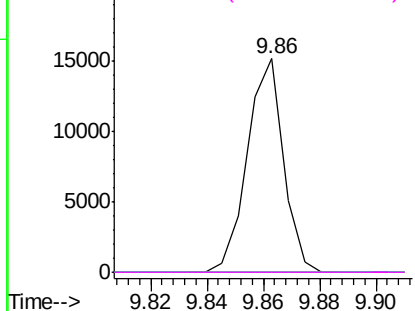


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

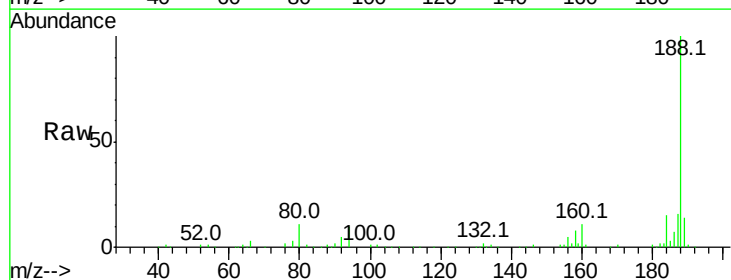
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1575  
 Delta R.T. 0.00 min  
 Lab File: BF099652.D  
 Acq: 19 Oct 2017 8:16

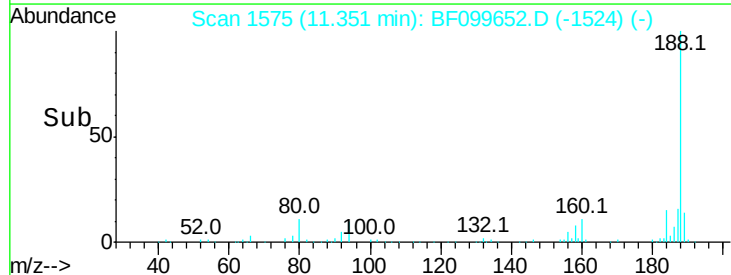
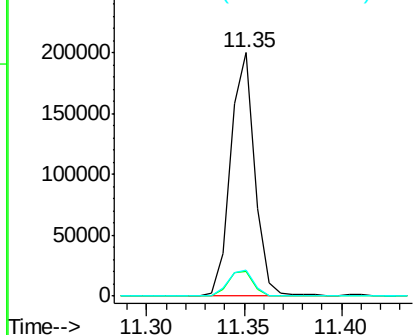
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 170842 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 10.1  | 8.5   | 12.7   |
| 80       | 10.8  | 9.2   | 13.8   |

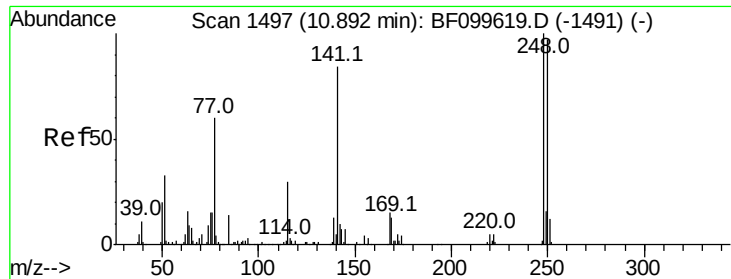


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

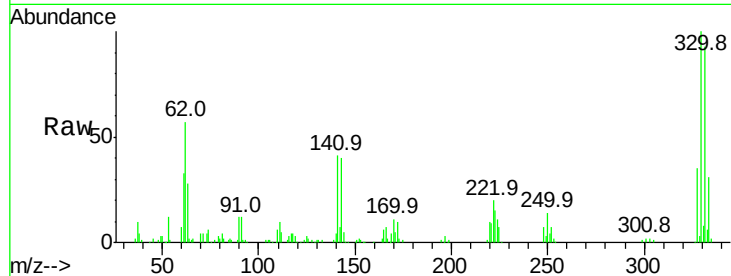




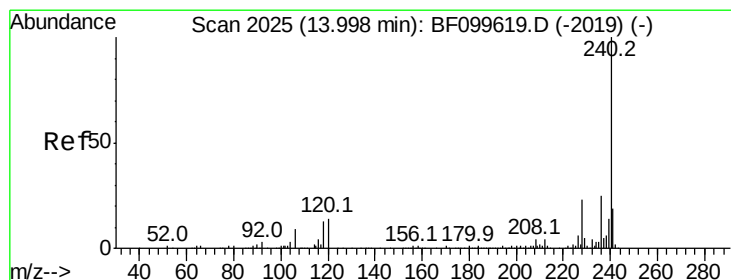
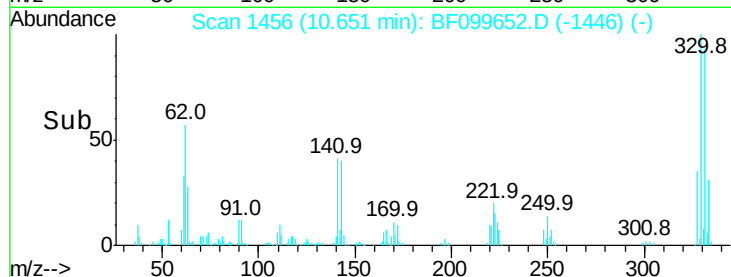
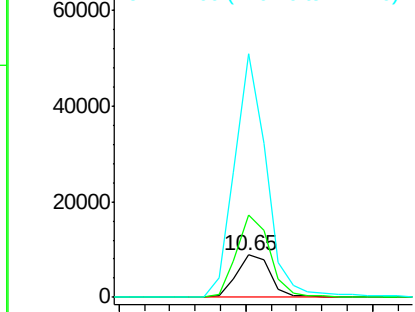
#66  
4-Bromophenyl-phenylether  
Concen: 4.945 ng  
RT: 10.65 min Scan# 1456  
Delta R.T. -0.24 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:248 Resp: 8270  
Ion Ratio Lower Upper  
248 100  
250 195.6 76.9 115.3#  
141 575.3 74.4 111.6#

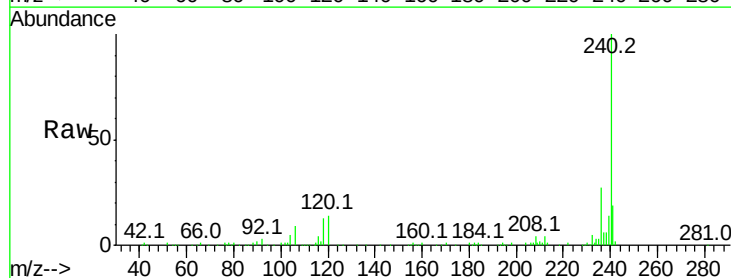


Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

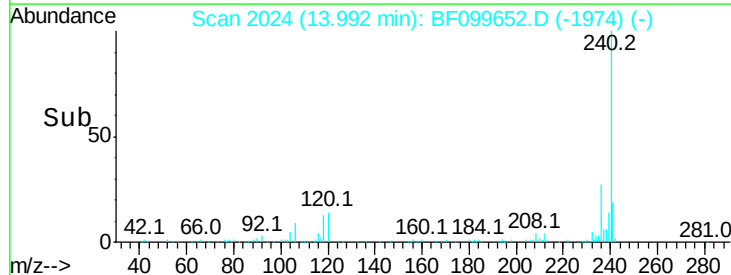
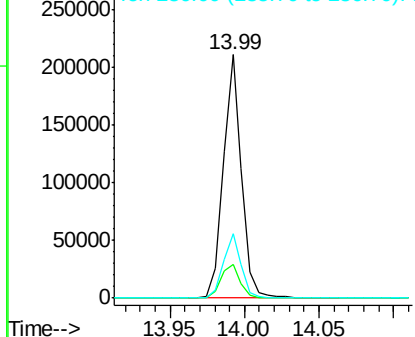


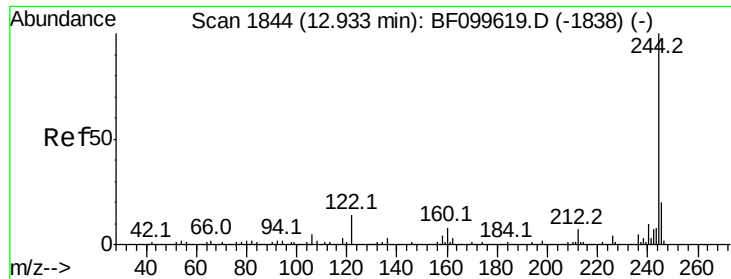
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.01 min  
Lab File: BF099652.D  
Acq: 19 Oct 2017 8:16

Tgt Ion:240 Resp: 180708  
Ion Ratio Lower Upper  
240 100  
120 13.8 9.5 14.3  
236 26.6 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: 81.655 ng

RT: 12.93 min Scan# 1844

Delta R.T. 0.00 min

Lab File: BF099652.D

Acq: 19 Oct 2017 8:16

Instrument :

BNA\_F

ClientSampled :

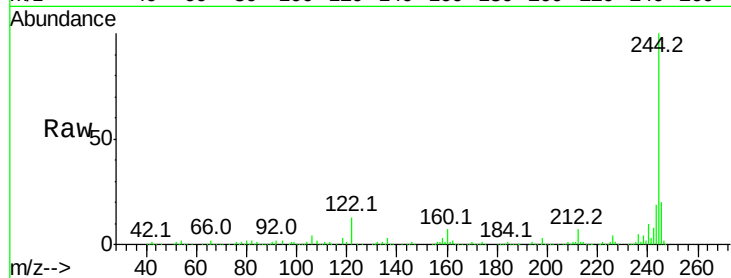
Tot Ion:244 Resp: 648827

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

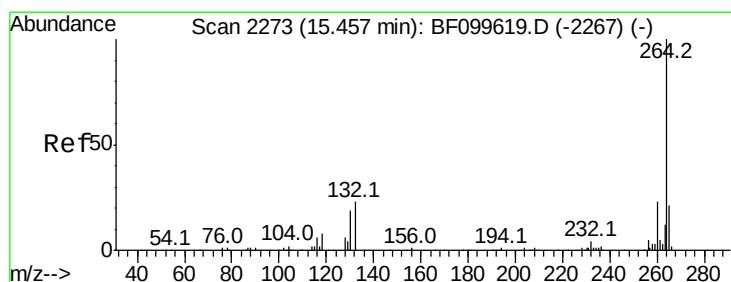
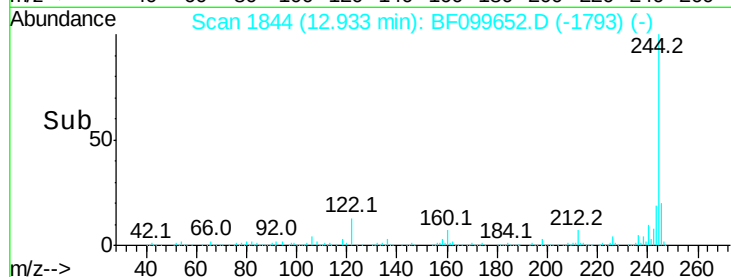
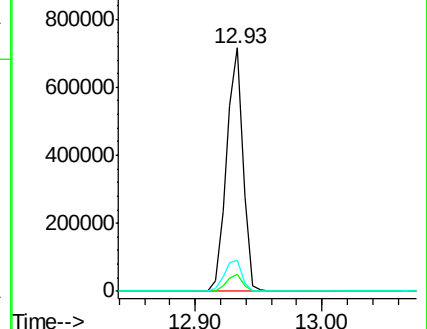
122 12.8 11.0 16.4



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# 2273

Delta R.T. 0.00 min

Lab File: BF099652.D

Acq: 19 Oct 2017 8:16

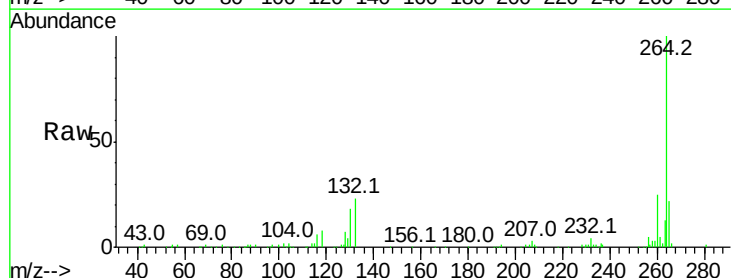
Tgt Ion:264 Resp: 143043

Ion Ratio Lower Upper

264 100

260 24.7 19.2 28.8

265 21.8 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

