

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101917\  
 Data File : BF099668.D  
 Acq On : 19 Oct 2017 20:27  
 Operator : SJ/JU  
 Sample : PB103438BL  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 20 12:50:13 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 19 19:55:56 2017  
 Response via : Initial Calibration

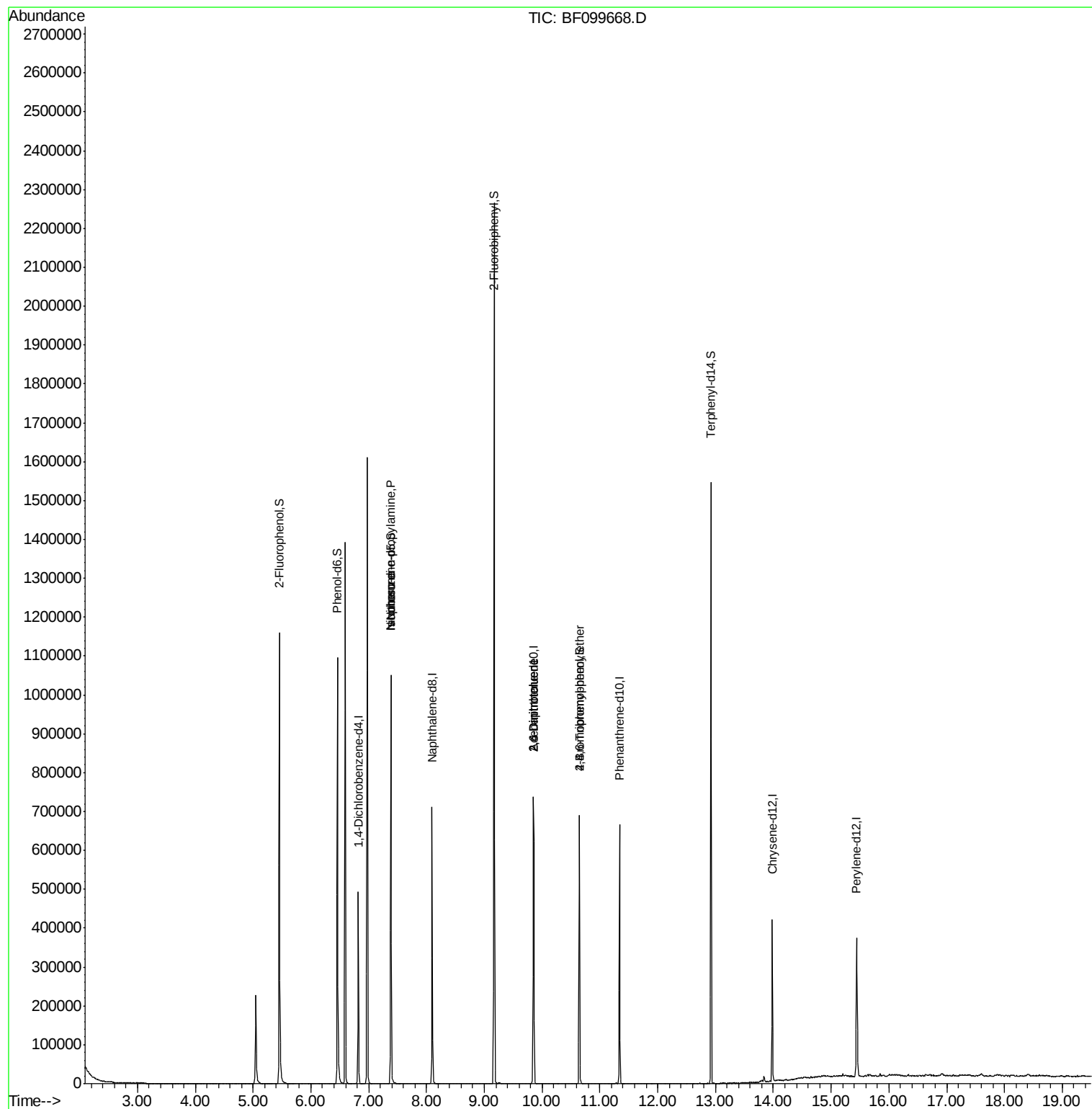
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 81755    | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.10  | 136  | 336088   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.85  | 164  | 147649   | 20.00  | ng    | -0.02    |
| 63) Phenanthrene-d10           | 11.34 | 188  | 226582   | 20.00  | ng    | -0.01    |
| 75) Chrysene-d12               | 13.99 | 240  | 143889   | 20.00  | ng    | -0.01    |
| 86) Perylene-d12               | 15.44 | 264  | 153821   | 20.00  | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.45  | 112  | 359573   | 70.01  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.46  | 99   | 427214   | 67.43  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 360791   | 68.84  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.64 | 330  | 74597    | 61.74  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 720362   | 81.45  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.92 | 244  | 482464   | 76.25  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 44498    | 11.001 | ng    | # 73     |
| 25) Isophorone                 | 7.39  | 82   | 360787   | 33.298 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.85  | 165  | 18735    | 7.722  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 9.85  | 165  | 18735    | 5.950  | ng    | # 22     |
| 66) 4-Bromophenyl-phenylether  | 10.64 | 248  | 5168     | 2.330  | ng    | # 1      |

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

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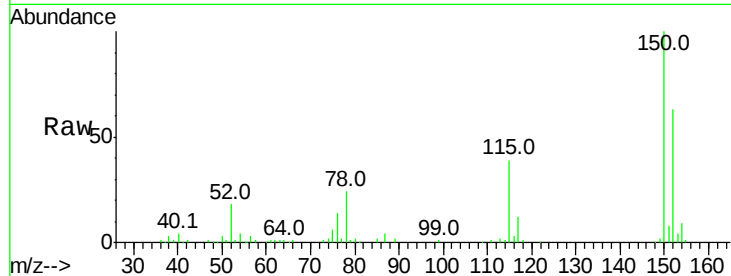


#1

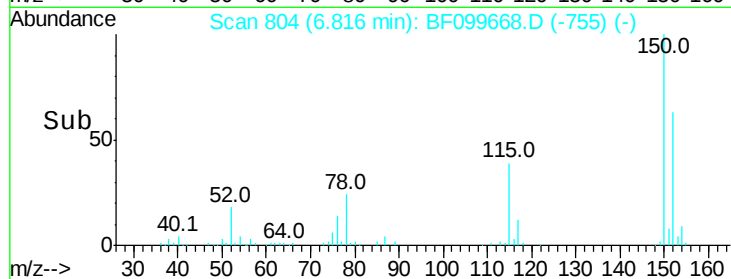
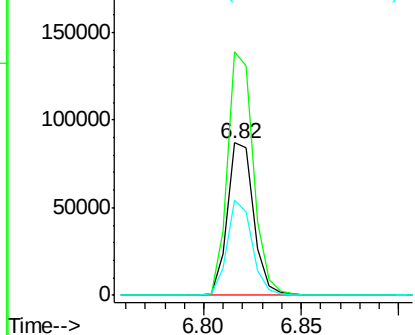
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 804  
Delta R.T. -0.01 min  
Lab File: BF099668.D  
Acq: 19 Oct 2017 20:27

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 81755  
Ion Ratio Lower Upper  
152 100  
150 159.6 124.6 186.8  
115 62.6 50.1 75.1



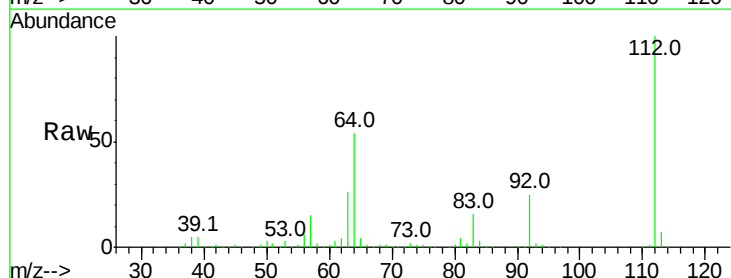
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



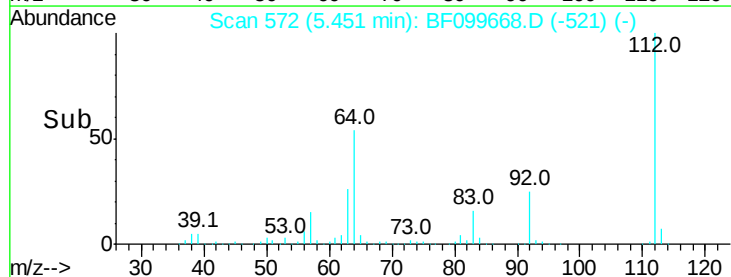
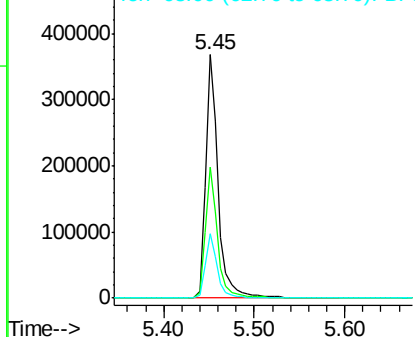
#5

2-Fluorophenol  
Concen: 70.015 ng  
RT: 5.45 min Scan# 572  
Delta R.T. 0.00 min  
Lab File: BF099668.D  
Acq: 19 Oct 2017 20:27

Tgt Ion:112 Resp: 359573  
Ion Ratio Lower Upper  
112 100  
64 53.8 47.9 71.9  
63 26.4 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: 67.432 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.02 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

Instrument :

BNA\_F

ClientSampled :

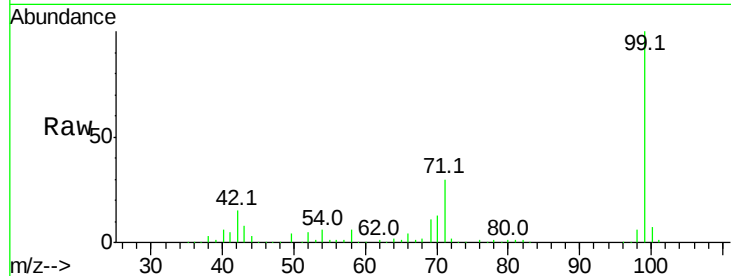
Tot Ion: 99 Resp: 427214

Ion Ratio Lower Upper

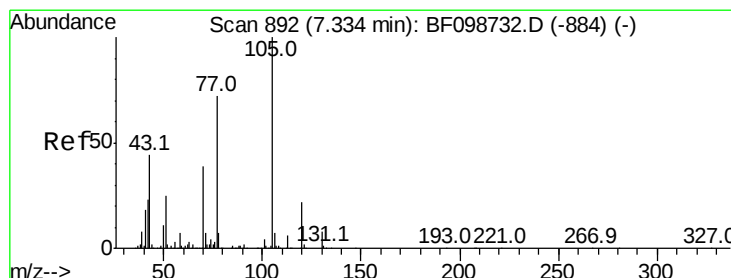
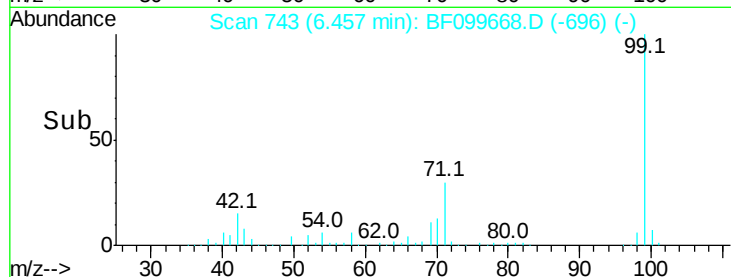
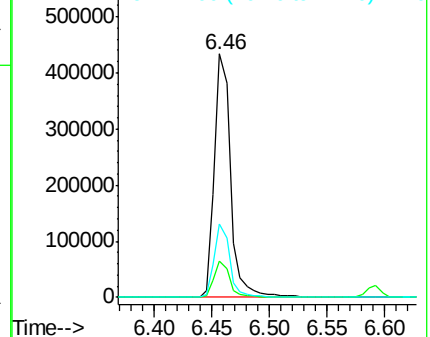
99 100

42 14.9 14.5 21.7

71 30.0 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



#19

n-Nitroso-di-n-propylamine

Concen: 11.001 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.14 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

Tgt Ion: 70 Resp: 44498

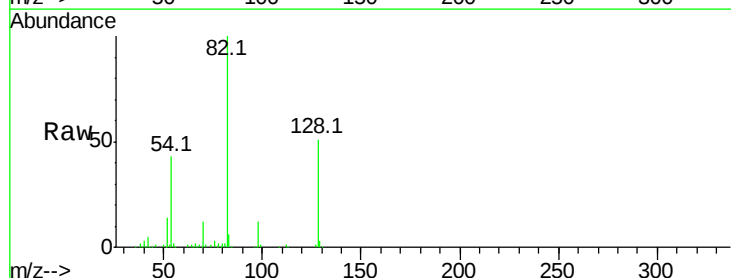
Ion Ratio Lower Upper

70 100

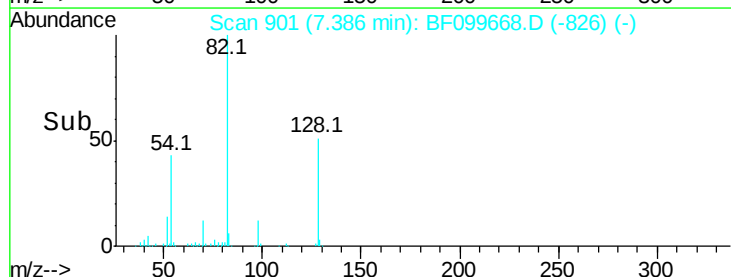
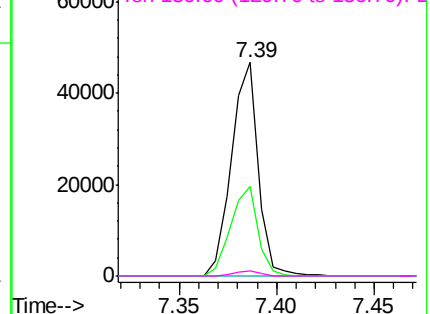
42 41.8 47.5 71.3#

101 0.0 7.4 11.2#

130 2.6 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

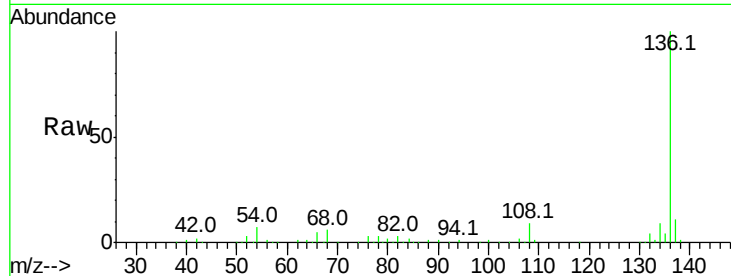




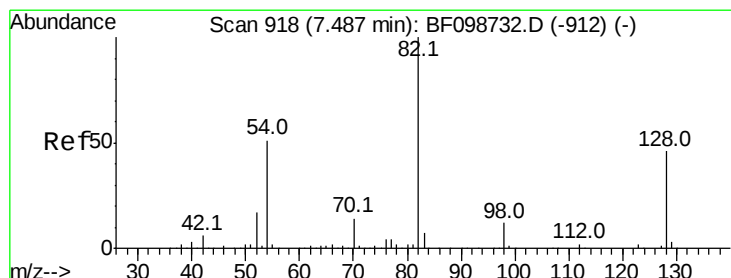
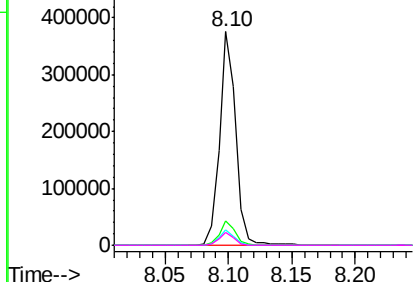
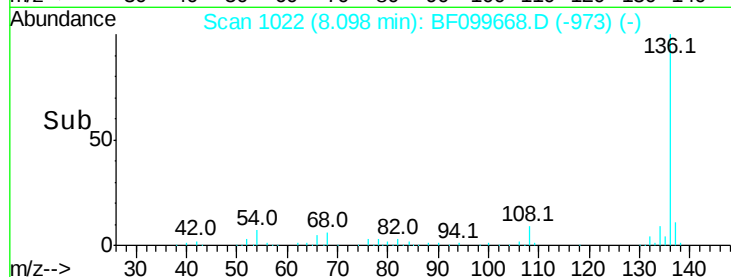
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.01 min  
Lab File: BF099668.D  
Acq: 19 Oct 2017 20:27

Instrument :  
BNA\_F  
ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 136   | Resp: | 336088 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.2  | 8.9   | 13.3   |
| 54       | 7.0   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |

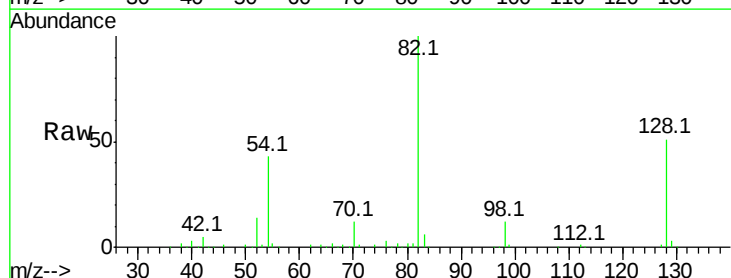


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

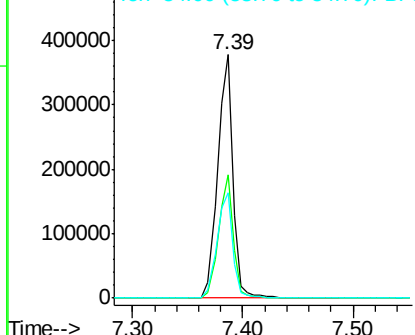
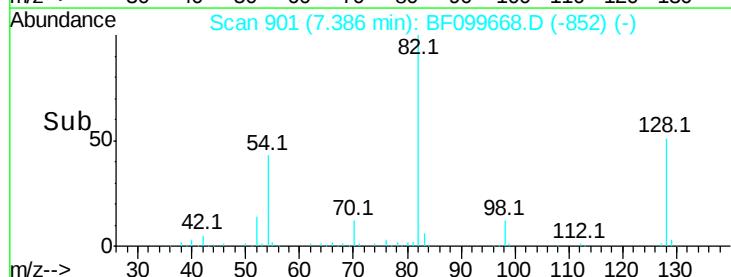


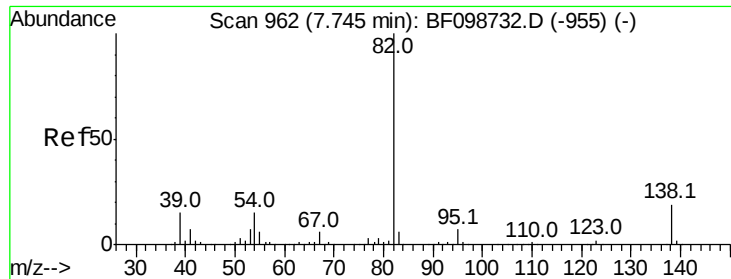
#23  
Nitrobenzene-d5  
Concen: 68.844 ng  
RT: 7.39 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BF099668.D  
Acq: 19 Oct 2017 20:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 360791 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 50.8  | 36.1  | 54.1   |
| 54       | 43.5  | 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: 33.298 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.27 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

Instrument :

BNA\_F

ClientSampled :

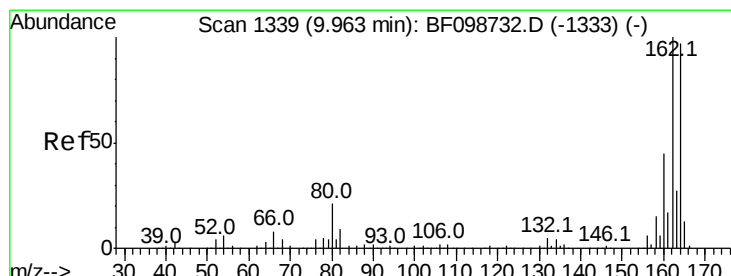
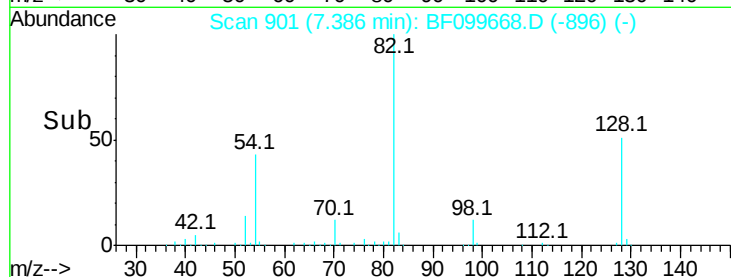
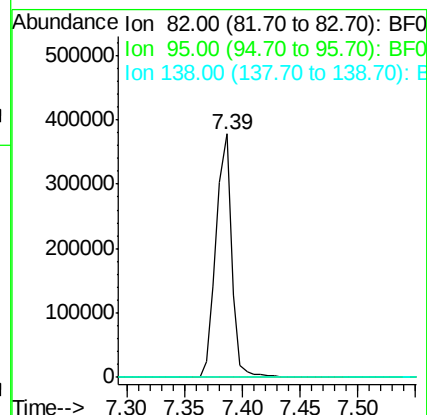
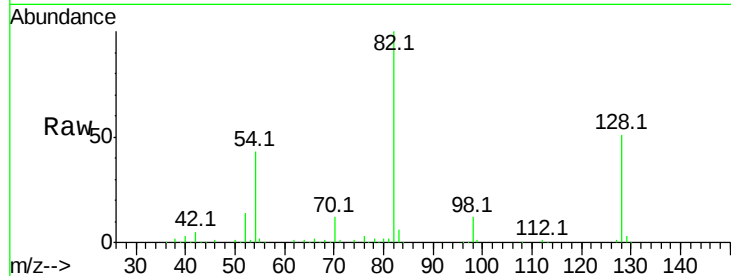
Tot Ion: 82 Resp: 360787

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: 9.85 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

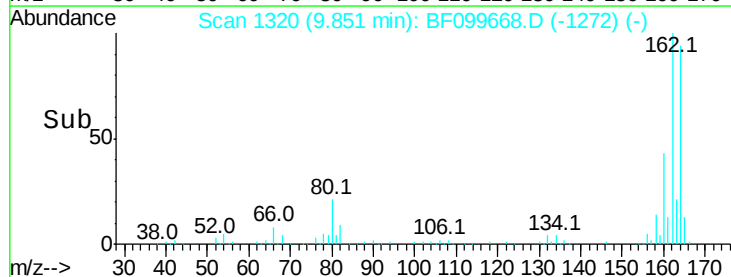
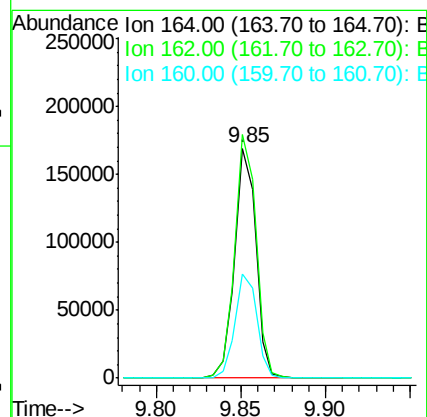
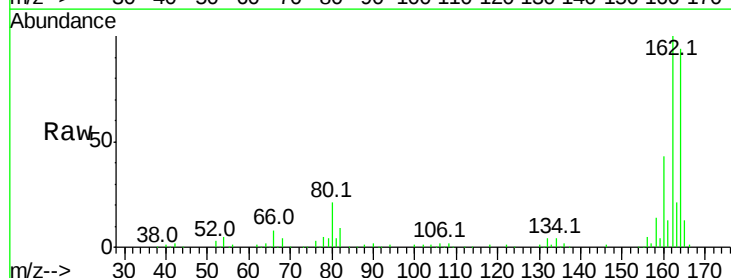
Tgt Ion:164 Resp: 147649

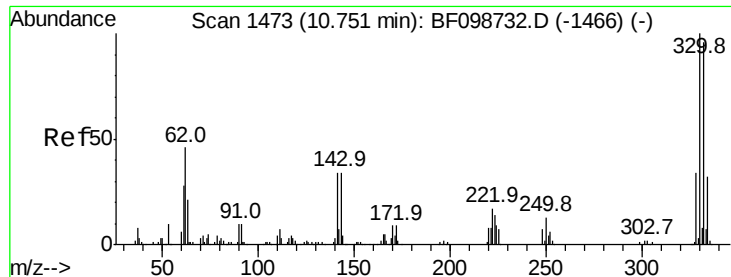
Ion Ratio Lower Upper

164 100

162 106.0 86.1 129.1

160 45.4 38.3 57.5



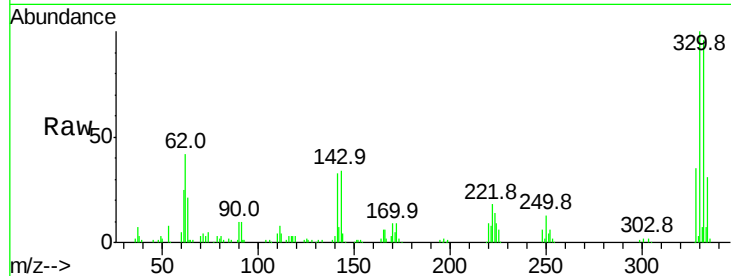


#41  
 2,4,6-Tribromophenol  
 Concen: 61.744 ng  
 RT: 10.64 min Scan# 1455  
 Delta R.T. -0.01 min  
 Lab File: BF099668.D  
 Acq: 19 Oct 2017 20:27

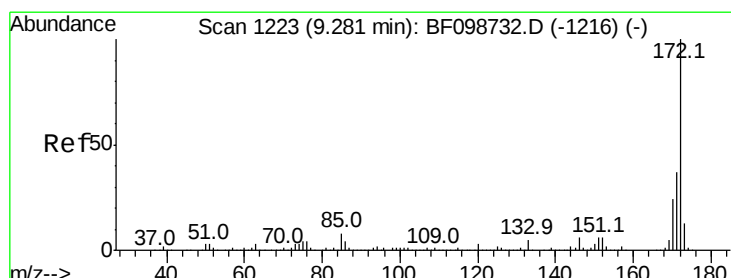
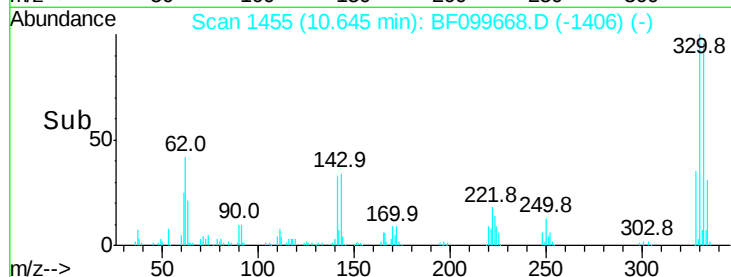
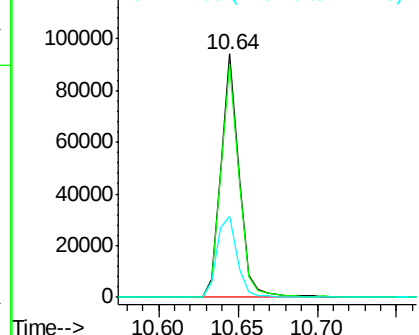
Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:330 Resp: 74597  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 96.4  | 77.0  | 115.6 |
| 141 | 37.4  | 29.9  | 44.9  |



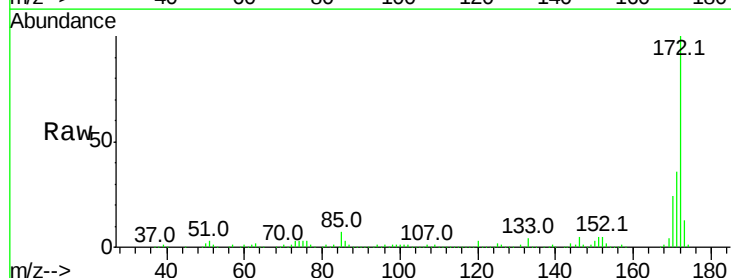
Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E



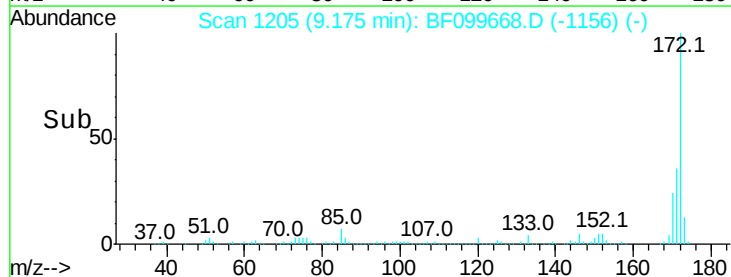
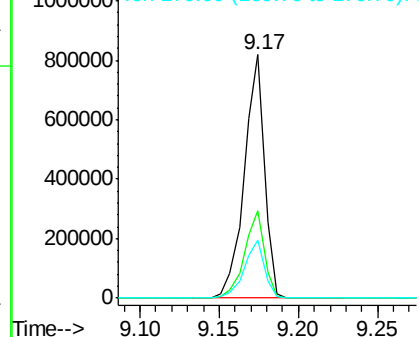
#44  
 2-Fluorobiphenyl  
 Concen: 81.449 ng  
 RT: 9.17 min Scan# 1205  
 Delta R.T. -0.01 min  
 Lab File: BF099668.D  
 Acq: 19 Oct 2017 20:27

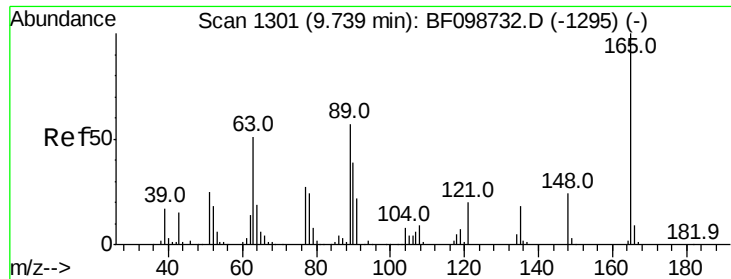
Tgt Ion:172 Resp: 720362  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 36.0  | 29.7  | 44.5  |
| 170 | 24.0  | 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

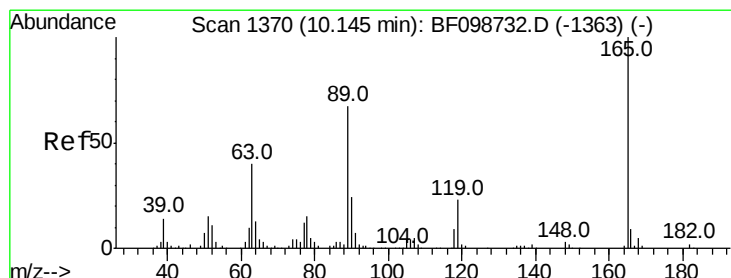
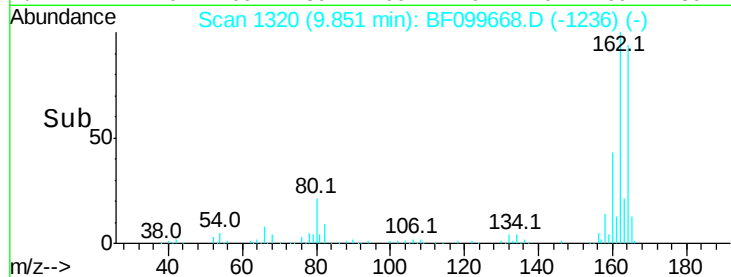
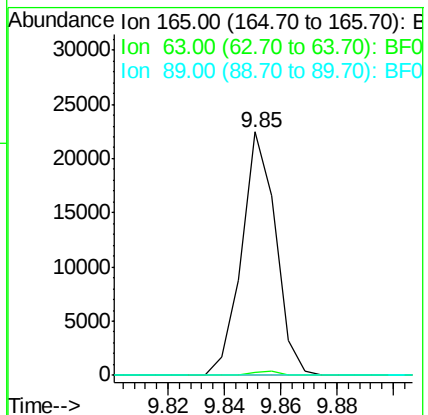
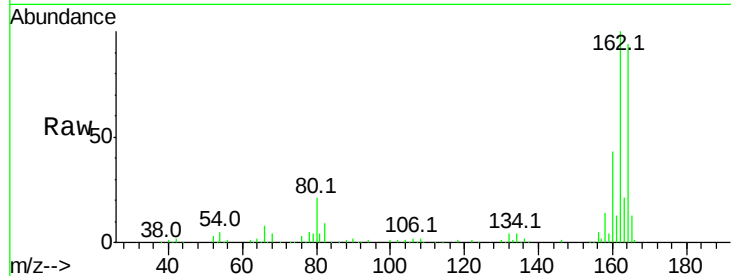




#50  
 2,6-Dinitrotoluene  
 Concen: 7.722 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. 0.19 min  
 Lab File: BF099668.D  
 Acq: 19 Oct 2017 20:27

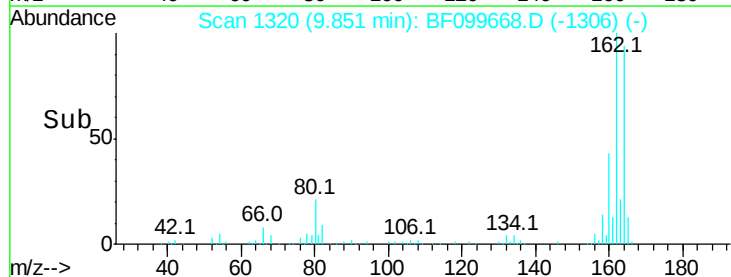
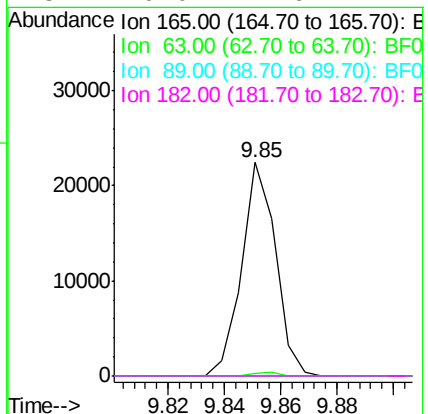
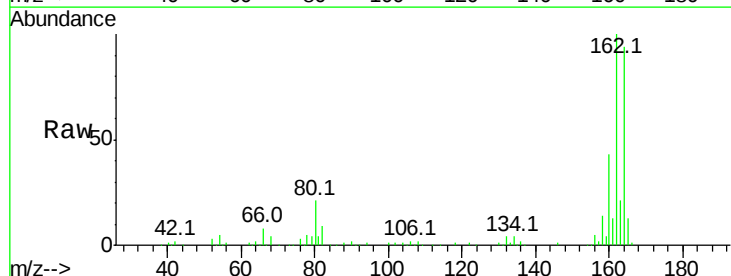
Instrument :  
 BNA\_F  
 ClientSampleId :

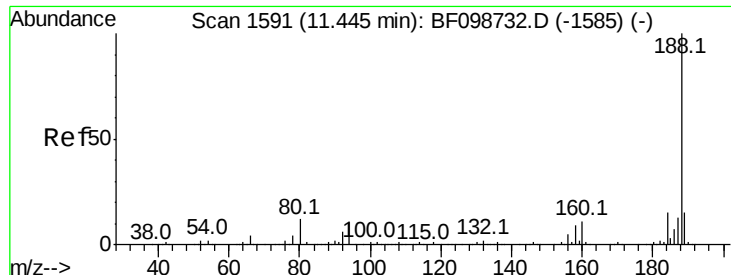
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 44.7  | 67.1# |
| 89      | 0.0   | 44.0  | 66.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 5.950 ng  
 RT: 9.85 min Scan# 1320  
 Delta R.T. -0.22 min  
 Lab File: BF099668.D  
 Acq: 19 Oct 2017 20:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 36.4  | 54.6# |
| 89      | 0.0   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.34 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

Instrument :

BNA\_F

ClientSampleId :

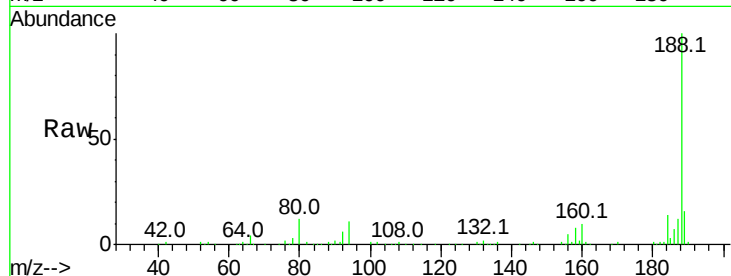
Tot Ion:188 Resp: 226582

Ion Ratio Lower Upper

188 100

94 10.9 8.5 12.7

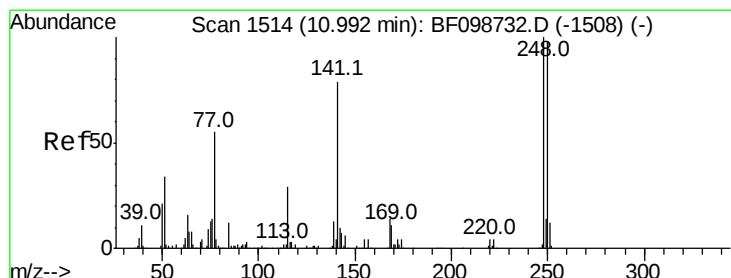
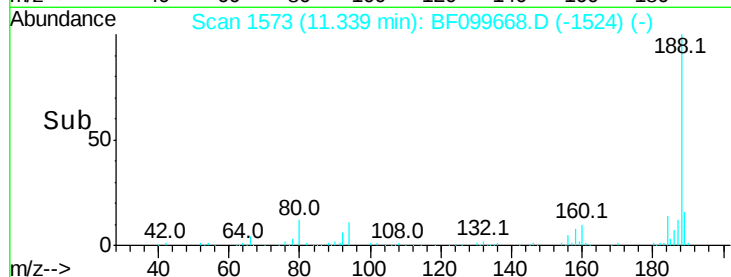
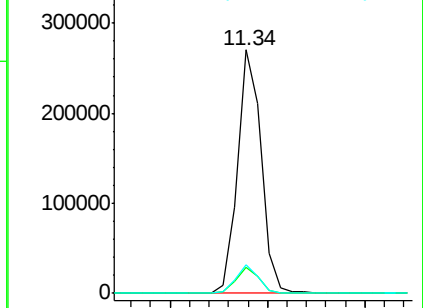
80 11.7 9.2 13.8



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: 2.330 ng

RT: 10.64 min Scan# 1455

Delta R.T. -0.25 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

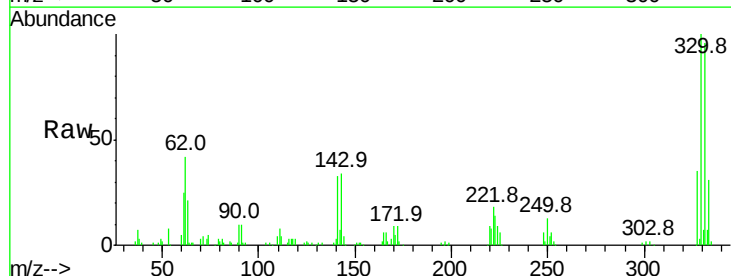
Tgt Ion:248 Resp: 5168

Ion Ratio Lower Upper

248 100

250 203.6 76.9 115.3#

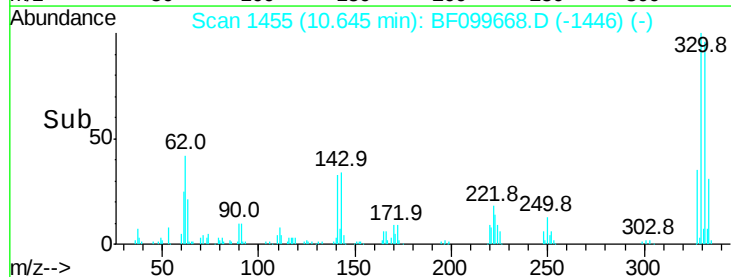
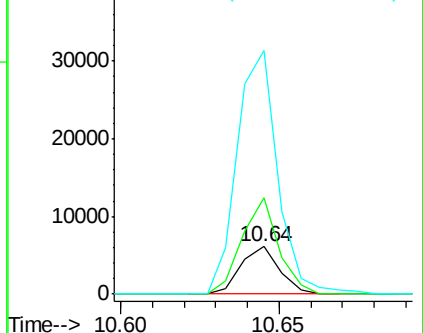
141 512.4 74.4 111.6#

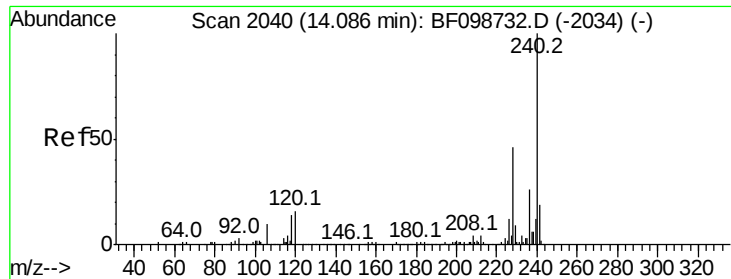


Abundance Ion 248.00 (247.70 to 248.70): E

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. -0.01 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

Instrument :

BNA\_F

ClientSampleId :

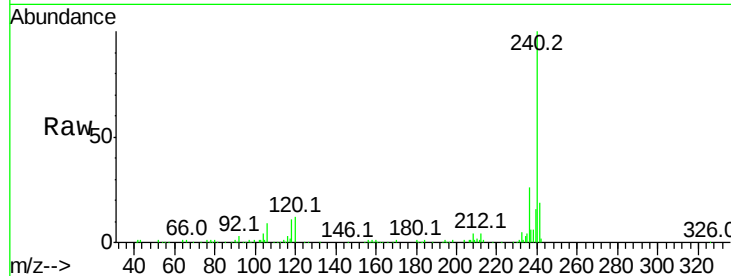
Tot Ion:240 Resp: 143889

Ion Ratio Lower Upper

240 100

120 12.3 9.5 14.3

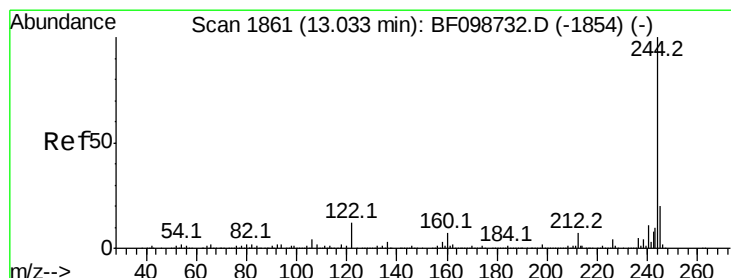
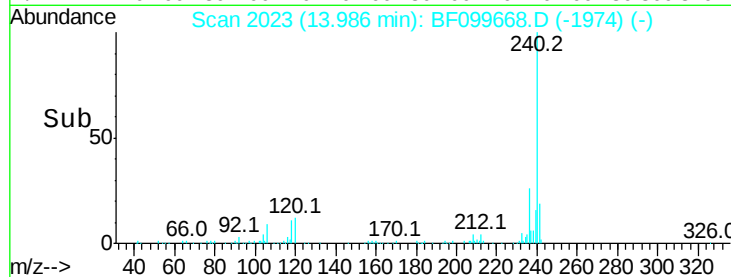
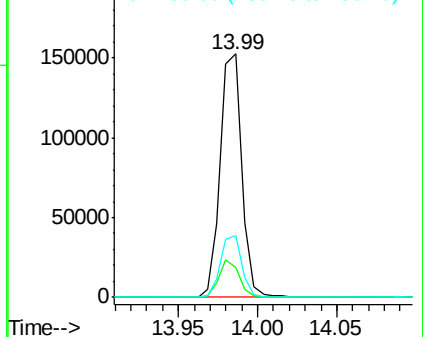
236 25.5 20.7 31.1



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: 76.255 ng

RT: 12.92 min Scan# 1842

Delta R.T. -0.01 min

Lab File: BF099668.D

Acq: 19 Oct 2017 20:27

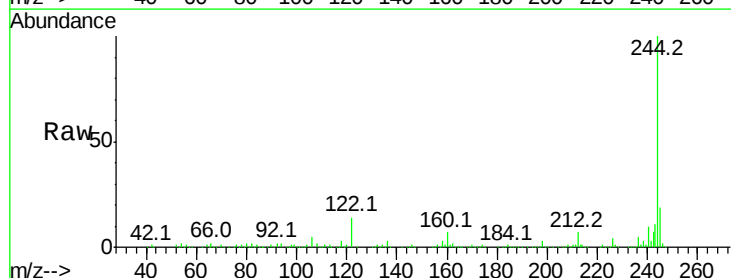
Tgt Ion:244 Resp: 482464

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

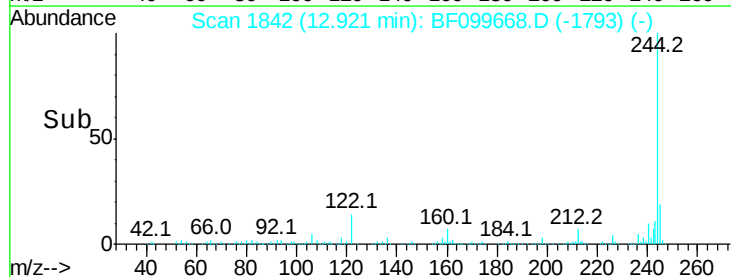
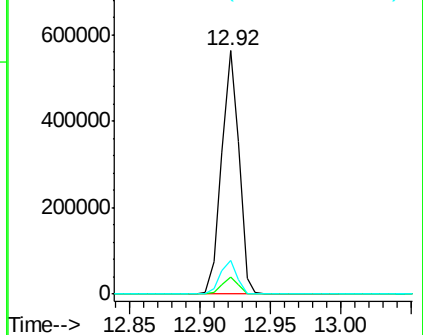
122 14.1 11.0 16.4

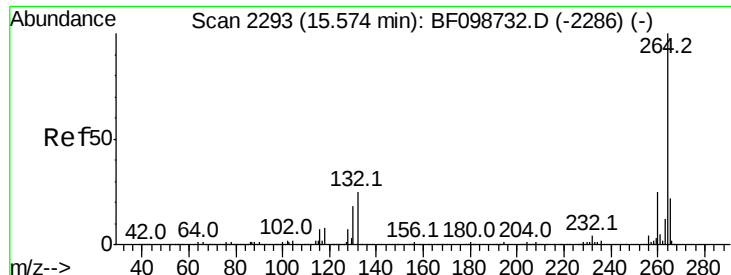


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

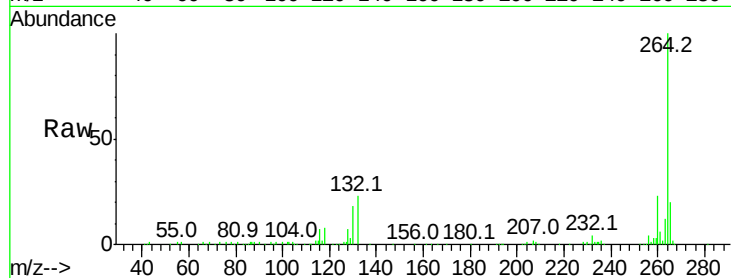




#86  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.44 min Scan# 2271  
 Delta R.T. -0.01 min  
 Lab File: BF099668.D  
 Acq: 19 Oct 2017 20:27

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:264 Resp: 153821  
 Ion Ratio Lower Upper  
 264 100  
 260 23.0 19.2 28.8  
 265 20.3 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

