

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF121317\  
 Data File : BF101376.D  
 Acq On : 13 Dec 2017 21:08  
 Operator : SJ/JU  
 Sample : I6816-03  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Dec 14 01:08:31 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 08 18:17:31 2017  
 Response via : Initial Calibration

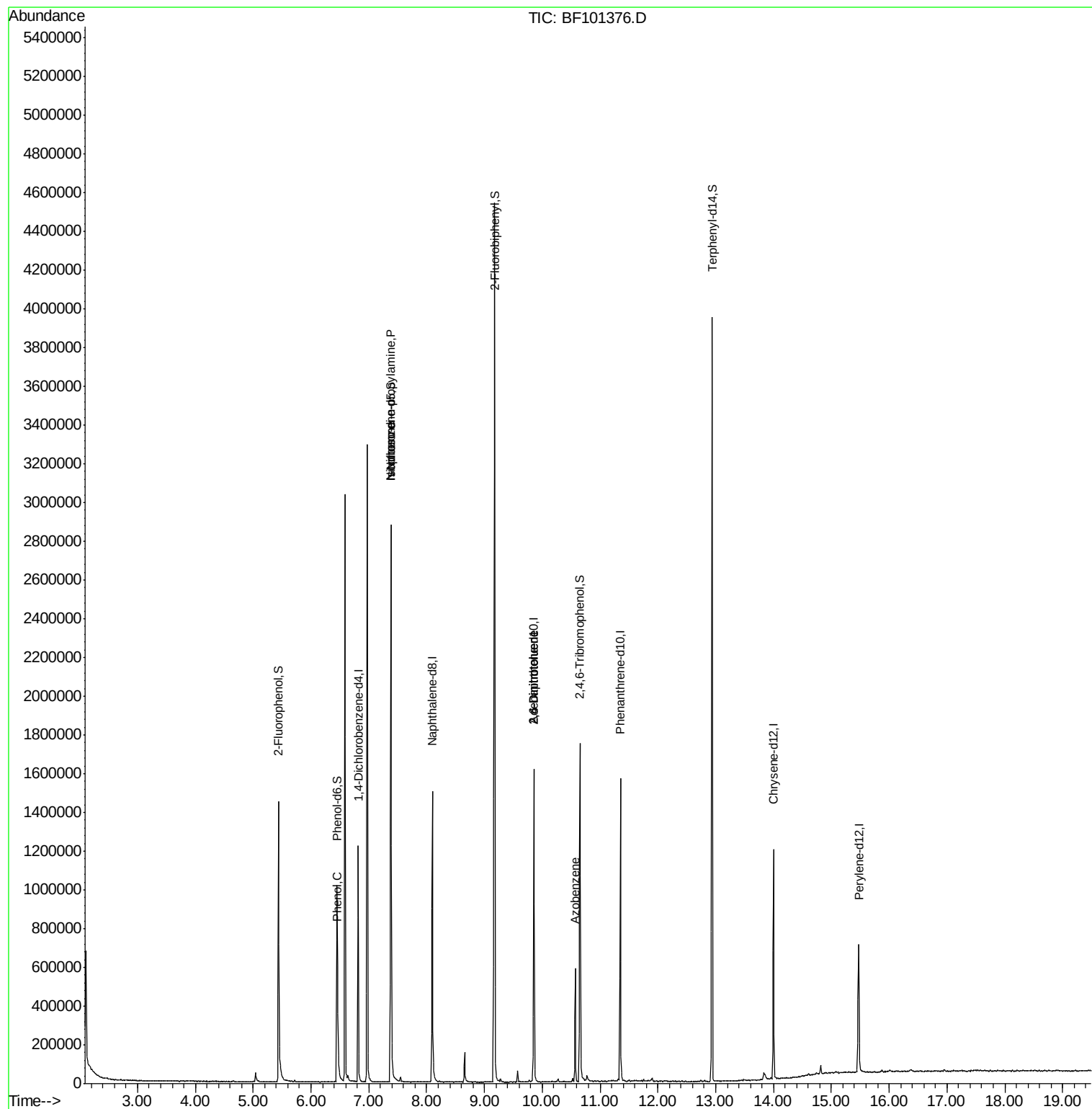
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 175584   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.10  | 136  | 718064   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.86  | 164  | 319725   | 20.00  | ng    | -0.01    |
| 63) Phenanthrene-d10           | 11.35 | 188  | 603133   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.00 | 240  | 397673   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.47 | 264  | 320932   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.44  | 112  | 512015   | 48.19  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.45  | 99   | 403947   | 31.31  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.39  | 82   | 1030890  | 85.64  | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.65 | 330  | 202125   | 52.63  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.17  | 172  | 1730094  | 74.04  | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.94 | 244  | 1510859  | 83.10  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.46  | 94   | 30944    | 2.157  | ng    | 80       |
| 19) n-Nitroso-di-n-propylamine | 7.39  | 70   | 139370   | 16.041 | ng    | # 84     |
| 25) Isophorone                 | 7.39  | 82   | 1030884  | 50.138 | ng    | # 64     |
| 50) 2,6-Dinitrotoluene         | 9.86  | 165  | 41341    | 7.612  | ng    | # 26     |
| 56) 2,4-Dinitrotoluene         | 9.86  | 165  | 41341    | 5.680  | ng    | # 23     |
| 62) Azobenzene                 | 10.57 | 77   | 102571   | 4.752  | ng    | # 1      |

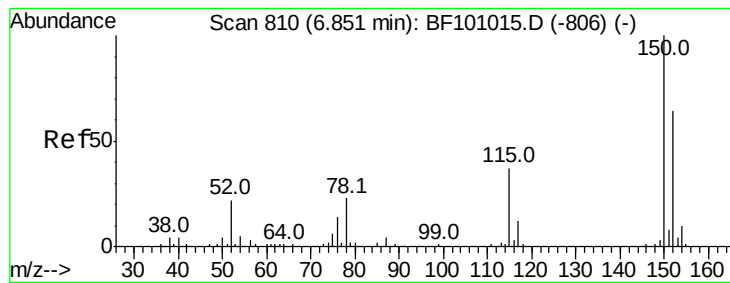
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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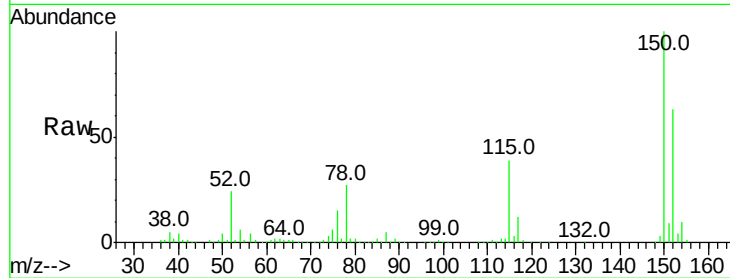


#1

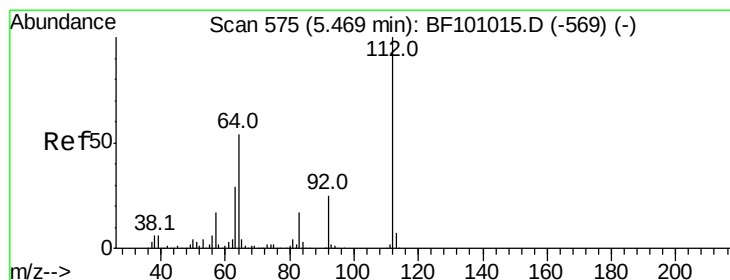
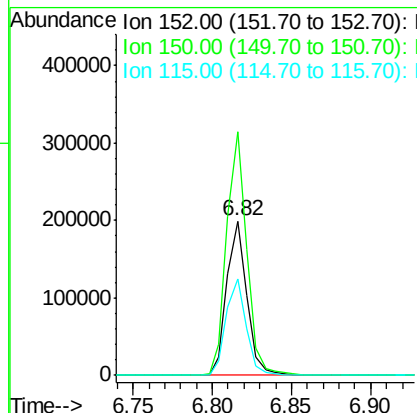
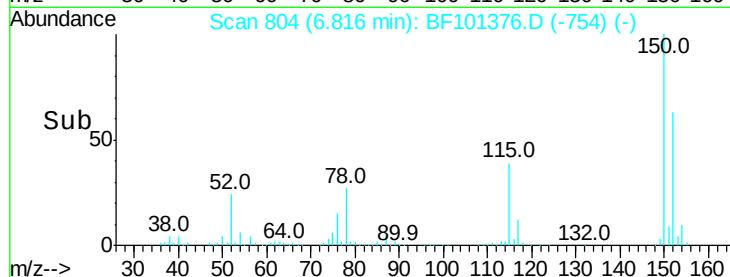
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.82 min Scan# 804  
Delta R.T. -0.01 min  
Lab File: BF101376.D  
Acq: 13 Dec 2017 21:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 175584  
Ion Ratio Lower Upper  
152 100  
150 158.0 124.6 186.8  
115 62.3 50.1 75.1



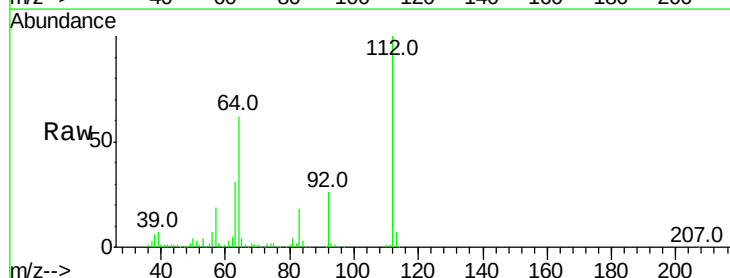
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



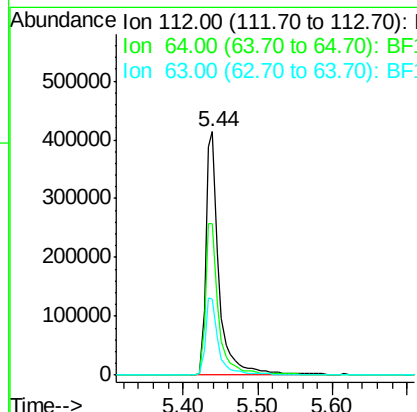
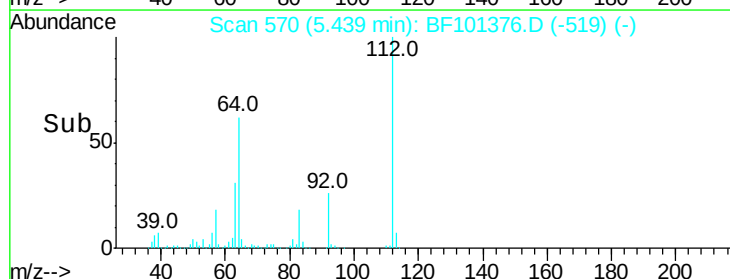
#5

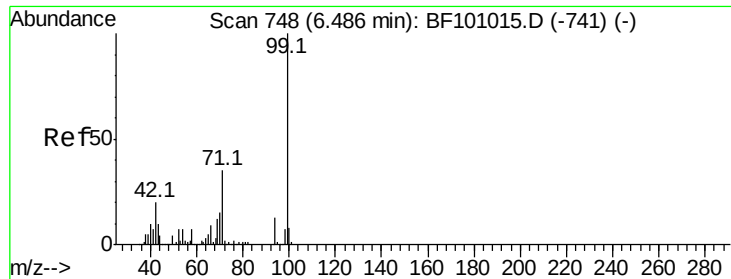
2-Fluorophenol  
Concen: 48.186 ng  
RT: 5.44 min Scan# 570  
Delta R.T. -0.00 min  
Lab File: BF101376.D  
Acq: 13 Dec 2017 21:08

Tgt Ion:112 Resp: 512015  
Ion Ratio Lower Upper  
112 100  
64 62.1 47.9 71.9  
63 31.0 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 31.312 ng

RT: 6.45 min Scan# 742

Delta R.T. -0.01 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

Instrument :

BNA\_F

ClientSampleId :

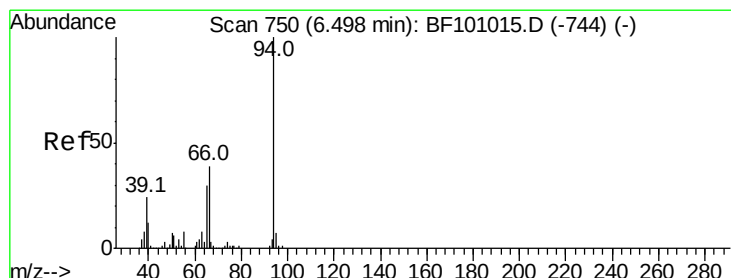
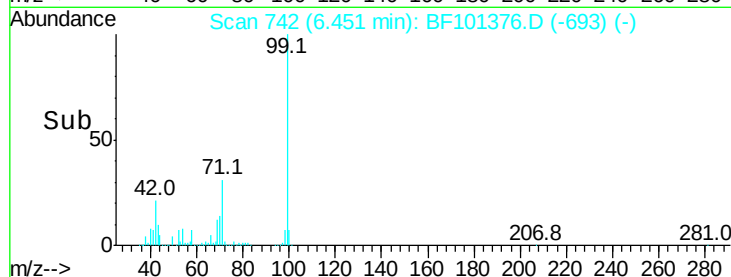
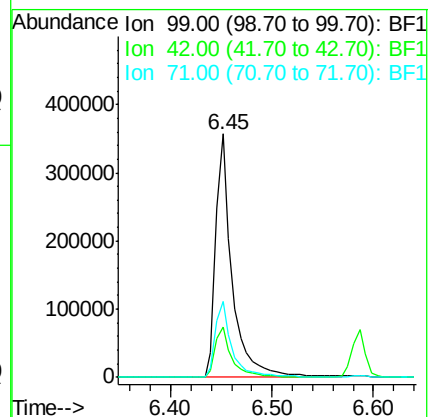
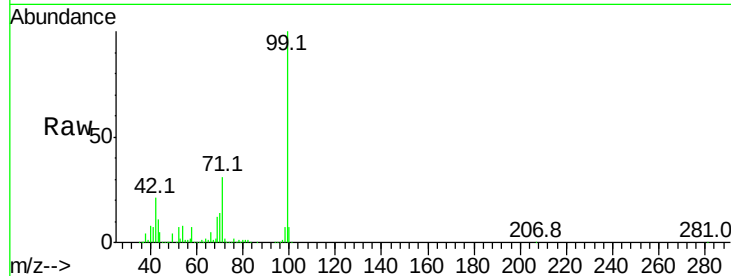
Tot Ion: 99 Resp: 403947

Ion Ratio Lower Upper

99 100

42 20.7 14.5 21.7

71 31.3 25.4 38.0



#10

Phenol

Concen: 2.157 ng

RT: 6.46 min Scan# 744

Delta R.T. -0.01 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

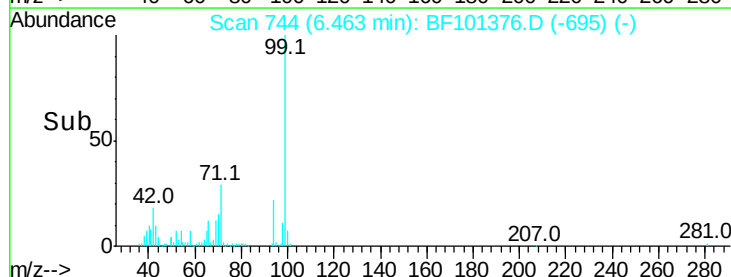
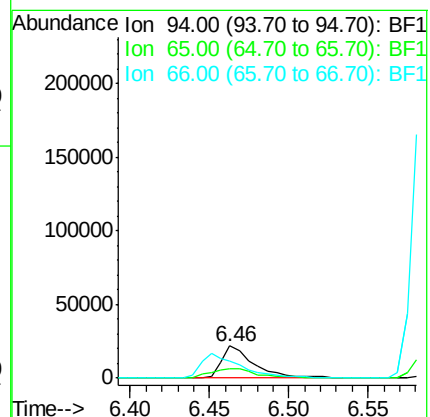
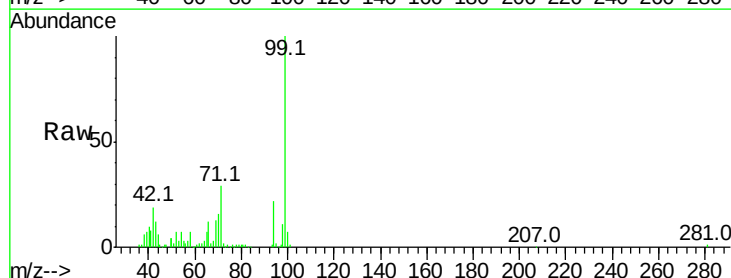
Tgt Ion: 94 Resp: 30944

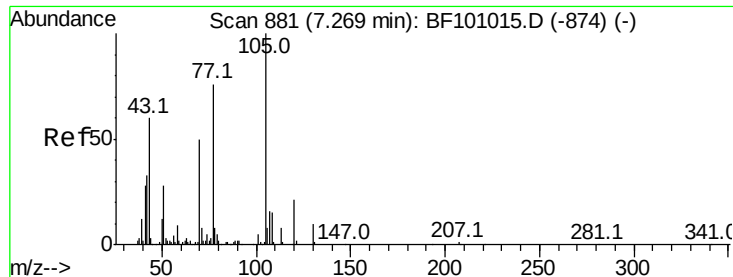
Ion Ratio Lower Upper

94 100

65 30.8 7.9 47.9

66 54.5 16.2 56.2





#19

n-Nitroso-di-n-propylamine

Concen: 16.041 ng

RT: 7.39 min Scan# 901

Delta R.T. 0.15 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

Instrument :

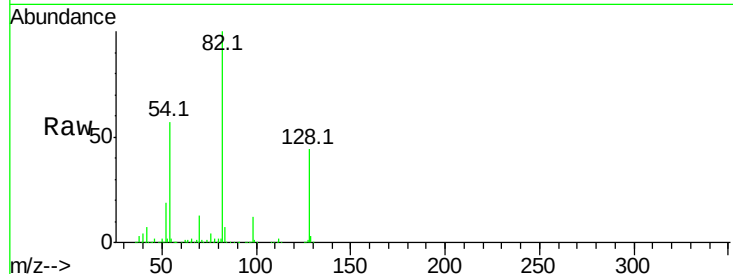
BNA\_F

ClientSampleId :

Tot Ion: 70 Resp: 139370

Ion Ratio Lower Upper

|     |      |      |      |
|-----|------|------|------|
| 70  | 100  |      |      |
| 42  | 55.4 | 47.5 | 71.3 |
| 101 | 0.0  | 7.4  | 11.2 |
| 130 | 2.0  | 16.6 | 25.0 |



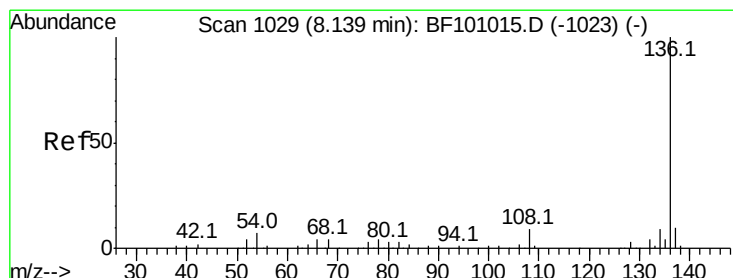
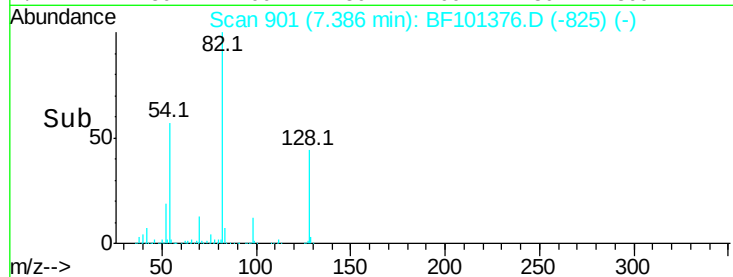
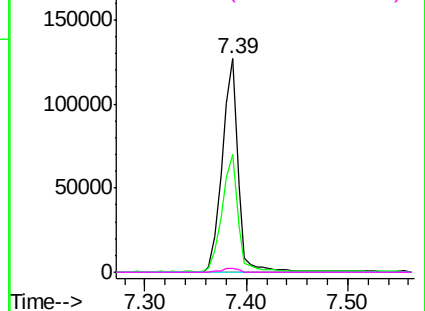
Abundance

Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): BF1

Ion 130.00 (129.70 to 130.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1022

Delta R.T. -0.01 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

Tgt Ion: 136 Resp: 718064

Ion Ratio Lower Upper

|     |      |     |      |
|-----|------|-----|------|
| 136 | 100  |     |      |
| 137 | 11.1 | 8.9 | 13.3 |
| 54  | 9.4  | 6.6 | 9.8  |
| 68  | 6.8  | 5.0 | 7.4  |

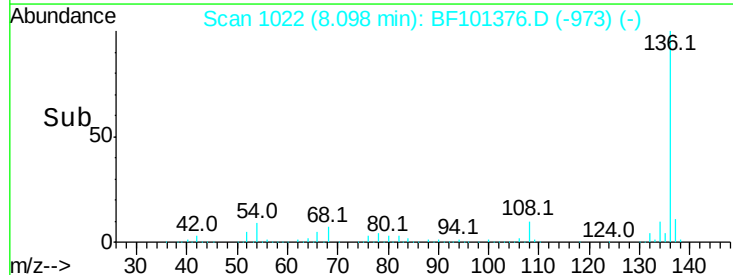
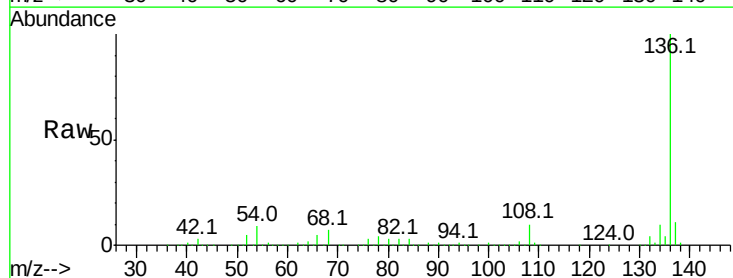
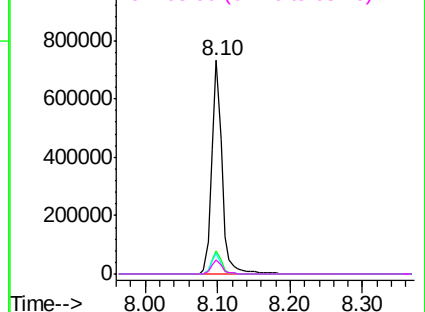
Abundance

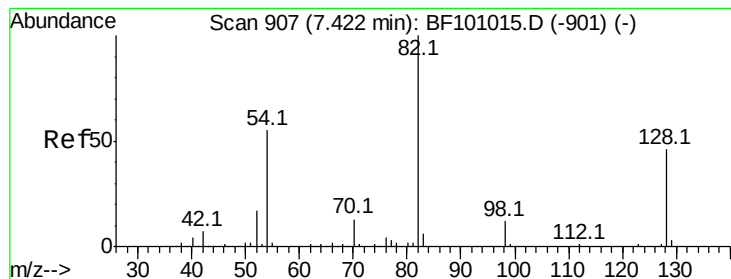
Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 85.641 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.01 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

Instrument :

BNA\_F

ClientSampleId :

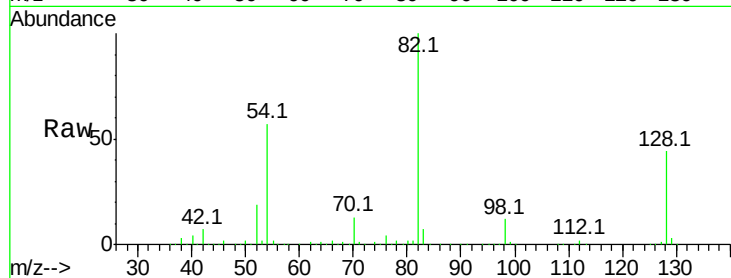
Tot Ion: 82 Resp: 1030890

Ion Ratio Lower Upper

82 100

128 44.0 36.1 54.1

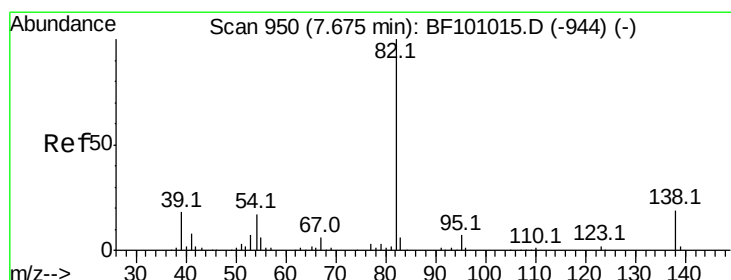
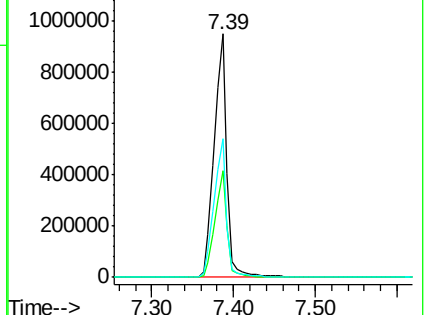
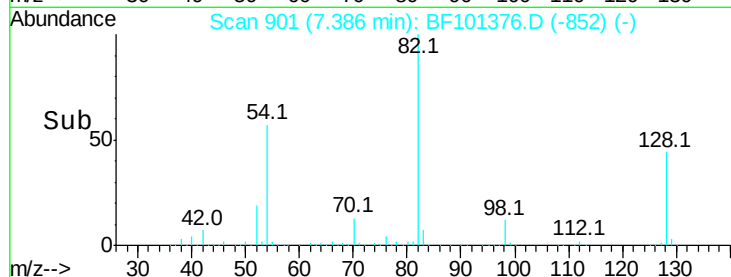
54 56.7 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#25

Isophorone

Concen: 50.138 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.26 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

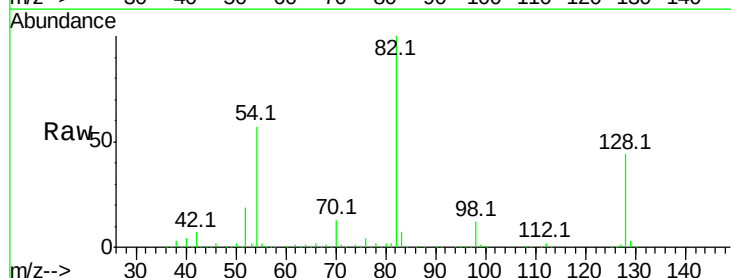
Tgt Ion: 82 Resp: 1030884

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

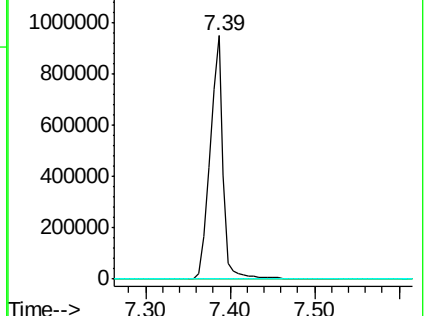
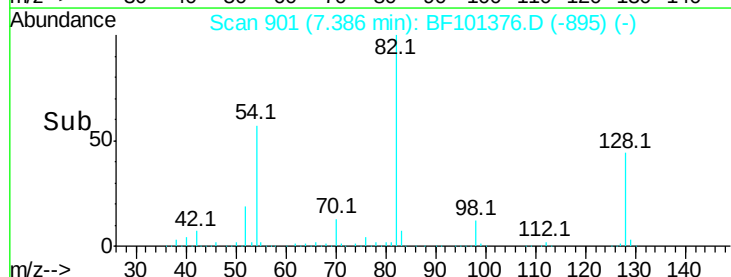
138 0.0 14.9 22.3#

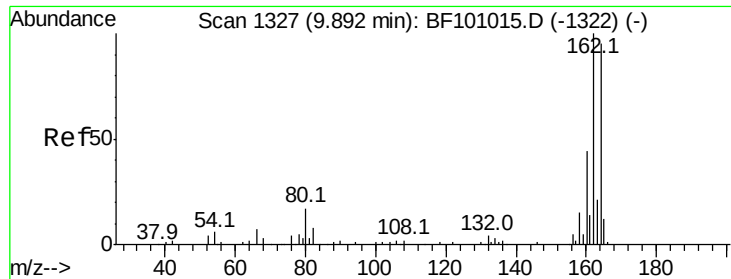


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.86 min Scan# 1321

Delta R.T. -0.01 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

Instrument :

BNA\_F

ClientSampleId :

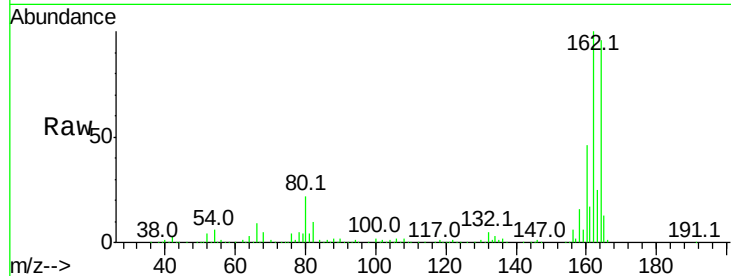
Tot Ion:164 Resp: 319725

Ion Ratio Lower Upper

164 100

162 103.7 86.1 129.1

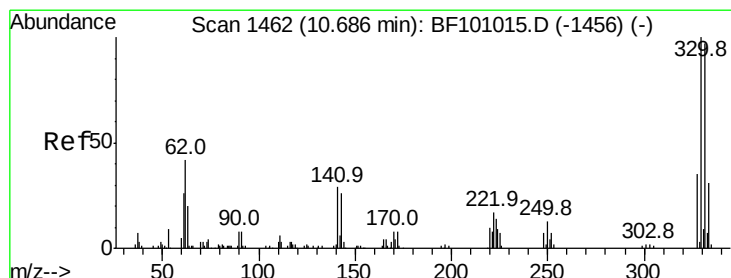
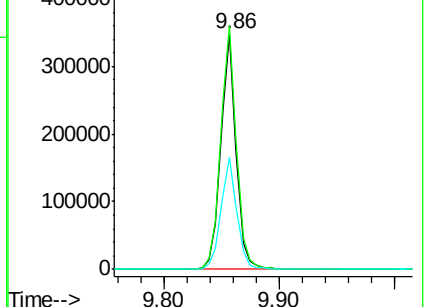
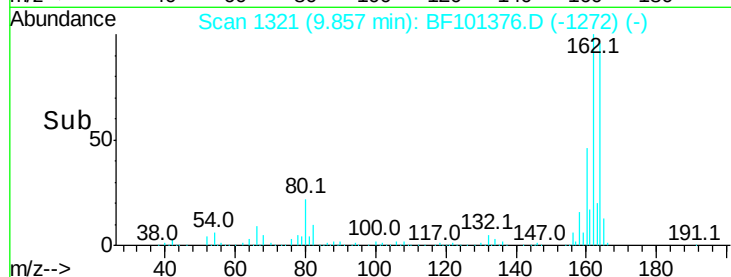
160 47.9 38.3 57.5



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: 52.626 ng

RT: 10.65 min Scan# 1456

Delta R.T. -0.01 min

Lab File: BF101376.D

Acq: 13 Dec 2017 21:08

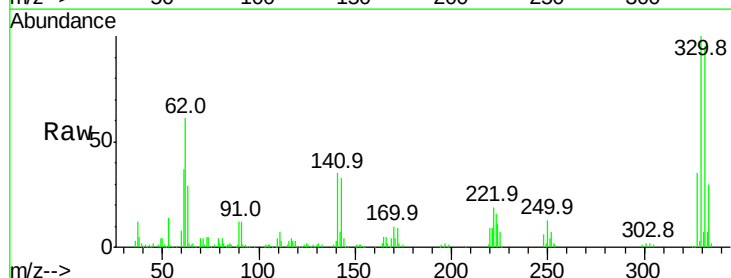
Tgt Ion:330 Resp: 202125

Ion Ratio Lower Upper

330 100

332 95.5 77.0 115.6

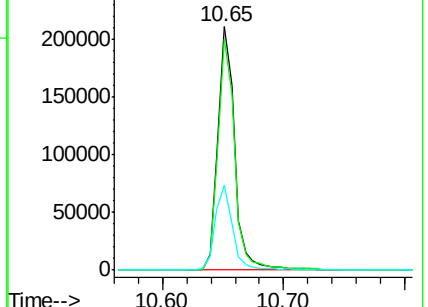
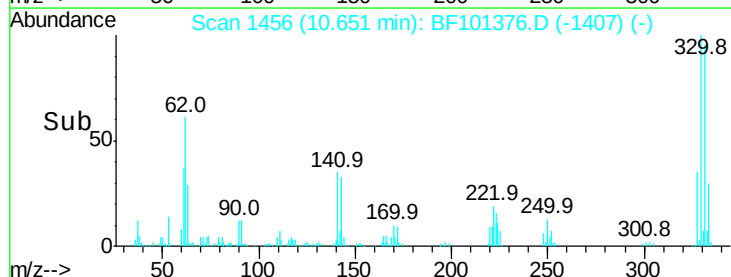
141 36.5 29.9 44.9

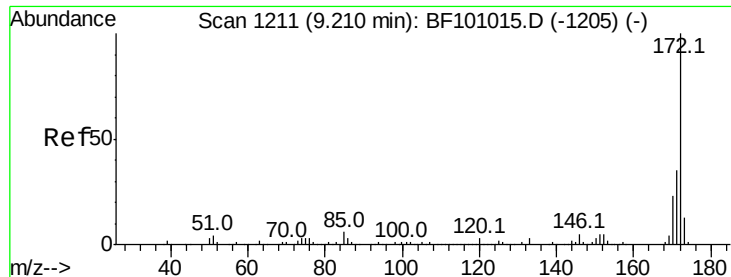


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

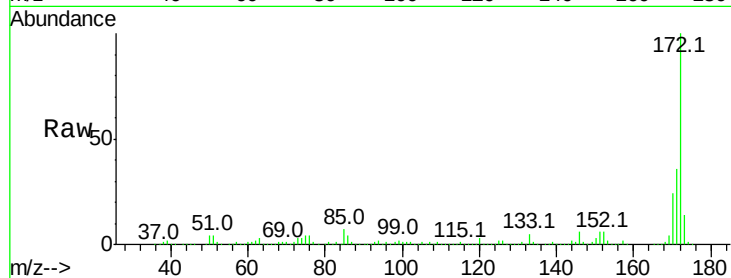




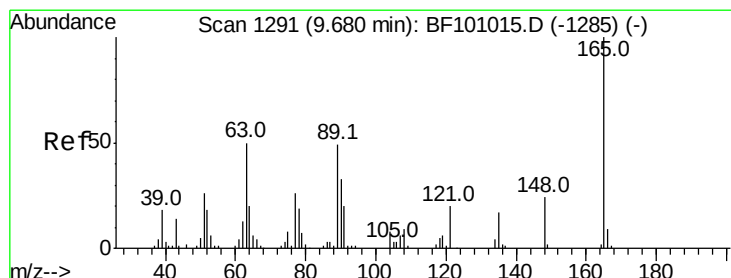
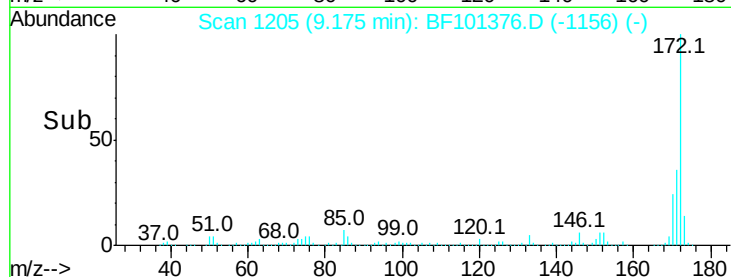
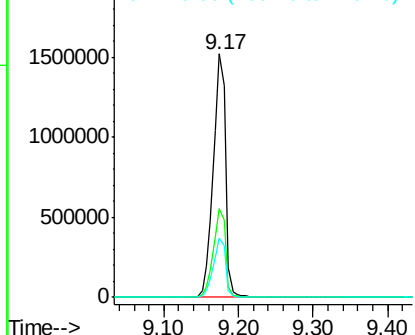
#44  
2-Fluorobiphenyl  
Concen: 74.036 ng  
RT: 9.17 min Scan# 1205  
Delta R.T. -0.01 min  
Lab File: BF101376.D  
Acq: 13 Dec 2017 21:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1730094  
Ion Ratio Lower Upper  
172 100  
171 36.4 29.7 44.5  
170 24.3 19.6 29.4

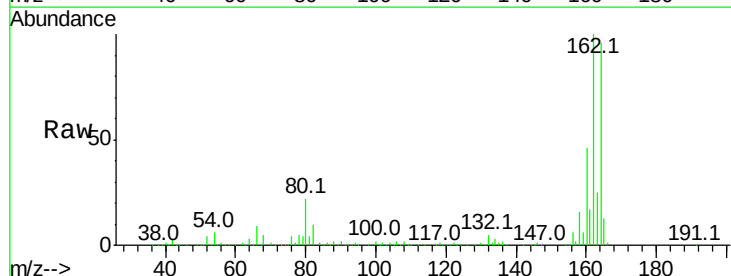


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

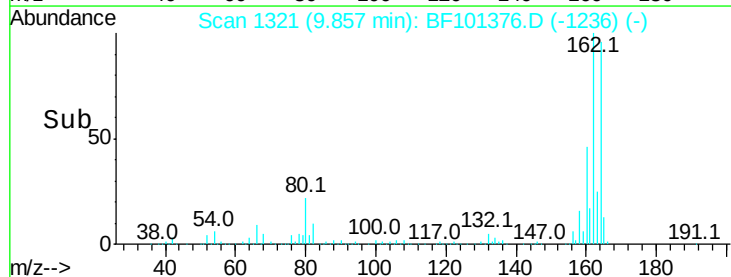
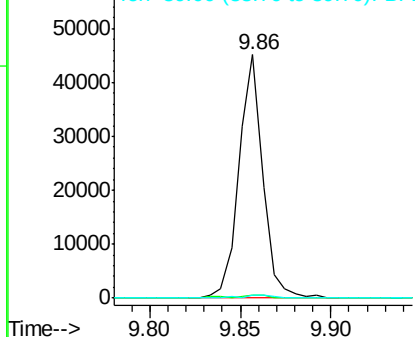


#50  
2,6-Dinitrotoluene  
Concen: 7.612 ng  
RT: 9.86 min Scan# 1321  
Delta R.T. 0.20 min  
Lab File: BF101376.D  
Acq: 13 Dec 2017 21:08

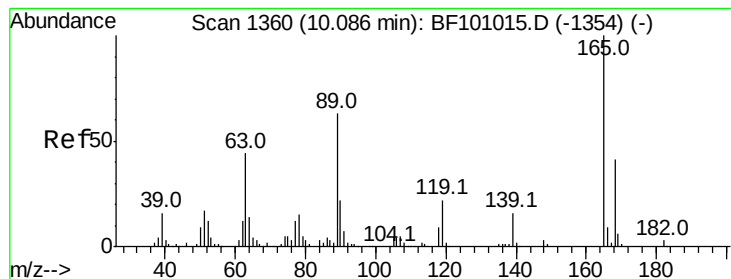
Tgt Ion:165 Resp: 41341  
Ion Ratio Lower Upper  
165 100  
63 1.3 44.7 67.1#  
89 1.5 44.0 66.0#



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BF1  
Ion 89.00 (88.70 to 89.70): BF1



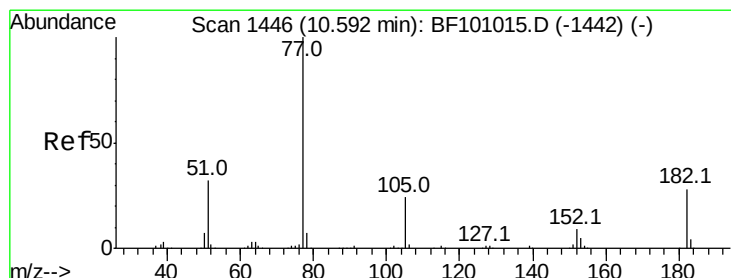
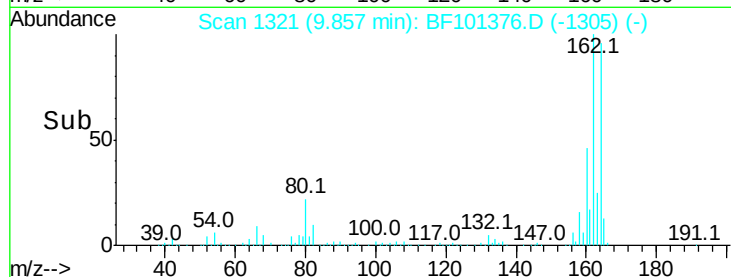
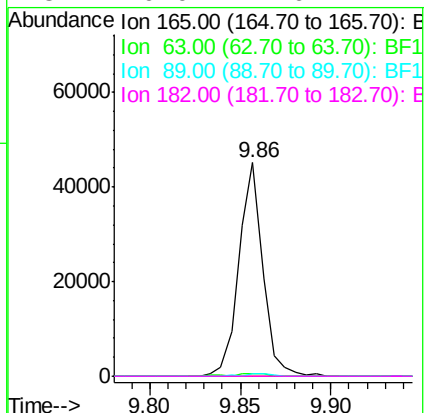
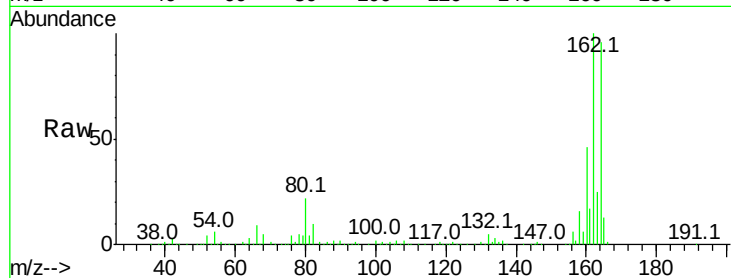




#56  
 2,4-Dinitrotoluene  
 Concen: 5.680 ng  
 RT: 9.86 min Scan# 1321  
 Delta R.T. -0.21 min  
 Lab File: BF101376.D  
 Acq: 13 Dec 2017 21:08

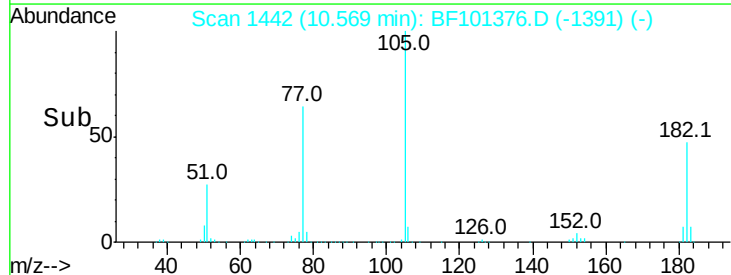
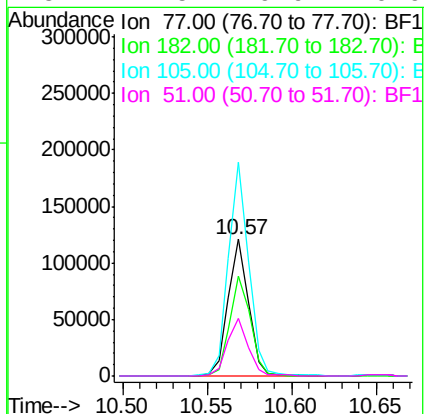
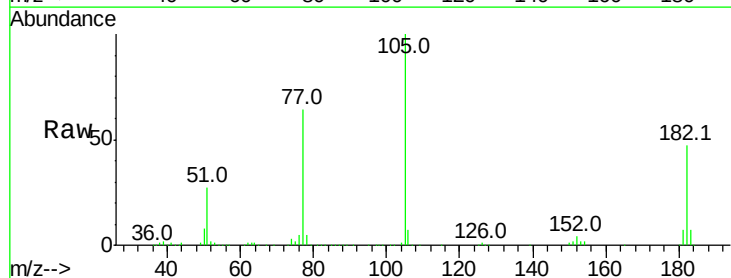
Instrument :  
 BNA\_F  
 ClientSampleId :

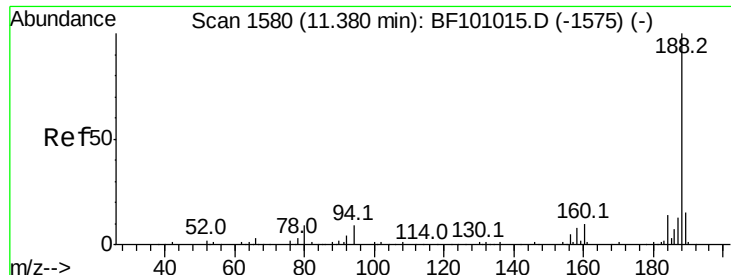
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 165   | Resp: | 41341 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.3   | 36.4  | 54.6# |
| 89       | 1.5   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |



#62  
 Azobenzene  
 Concen: 4.752 ng  
 RT: 10.57 min Scan# 1442  
 Delta R.T. -0.00 min  
 Lab File: BF101376.D  
 Acq: 13 Dec 2017 21:08

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 77    | Resp: | 102571 |
| Ion      | Ratio | Lower | Upper  |
| 77       | 100   |       |        |
| 182      | 73.0  | 1.7   | 41.7#  |
| 105      | 156.4 | 3.0   | 43.0#  |
| 51       | 42.5  | 9.9   | 49.9   |

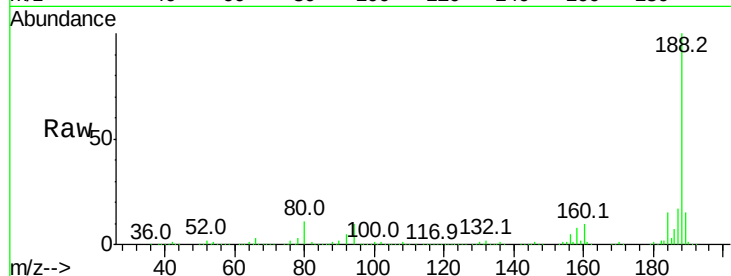




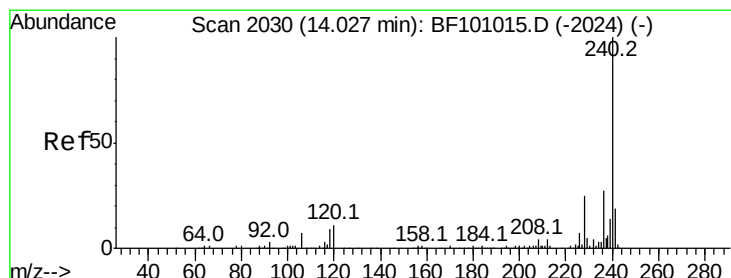
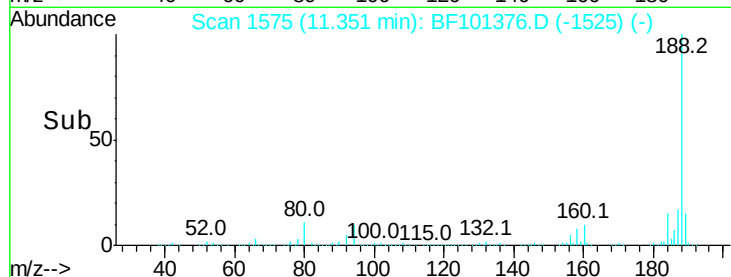
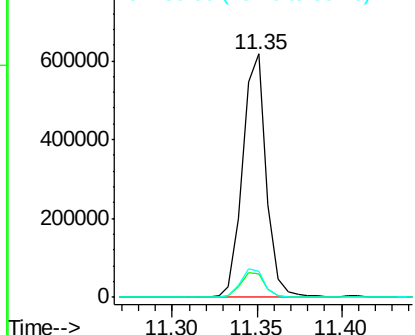
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.35 min Scan# 1575  
Delta R.T. -0.01 min  
Lab File: BF101376.D  
Acq: 13 Dec 2017 21:08

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 603133  
Ion Ratio Lower Upper  
188 100  
94 9.5 8.5 12.7  
80 10.6 9.2 13.8

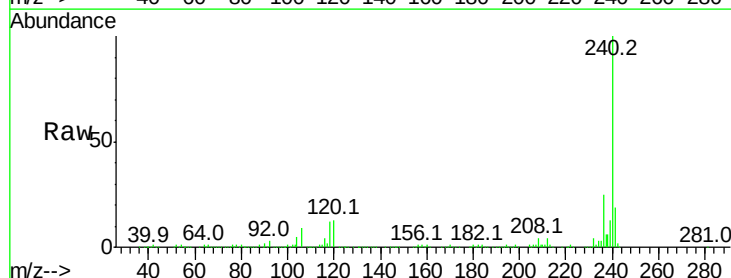


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF1  
Ion 80.00 (79.70 to 80.70): BF1

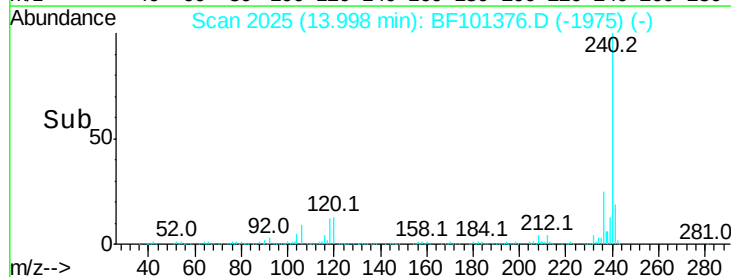
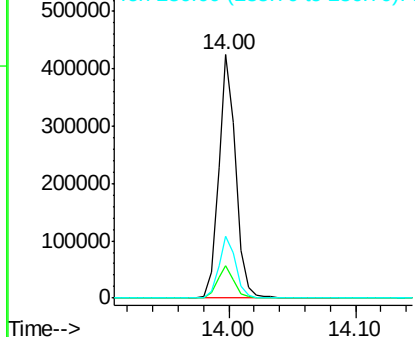


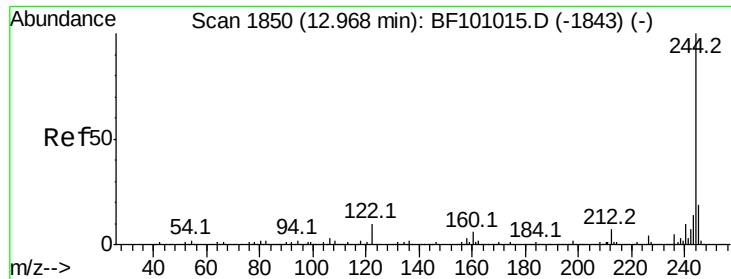
#75  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2025  
Delta R.T. -0.01 min  
Lab File: BF101376.D  
Acq: 13 Dec 2017 21:08

Tgt Ion:240 Resp: 397673  
Ion Ratio Lower Upper  
240 100  
120 13.1 9.5 14.3  
236 25.3 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

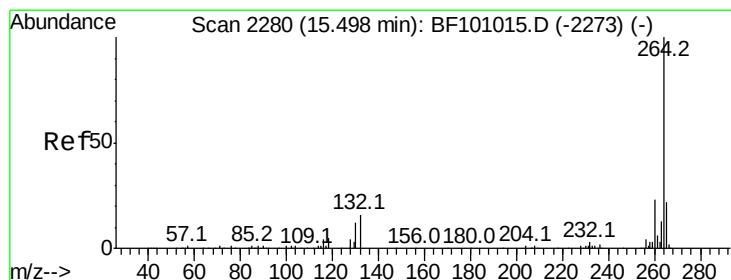
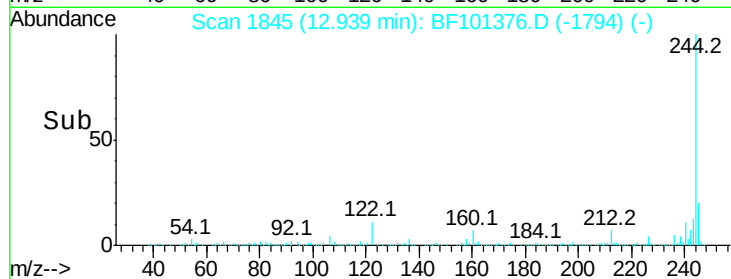
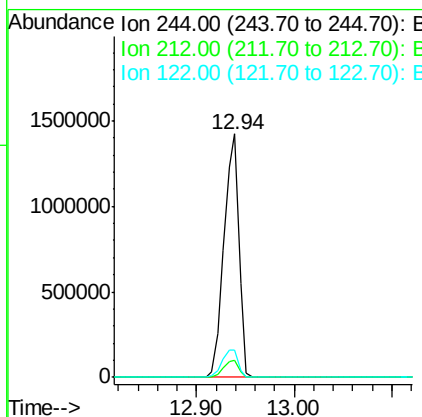
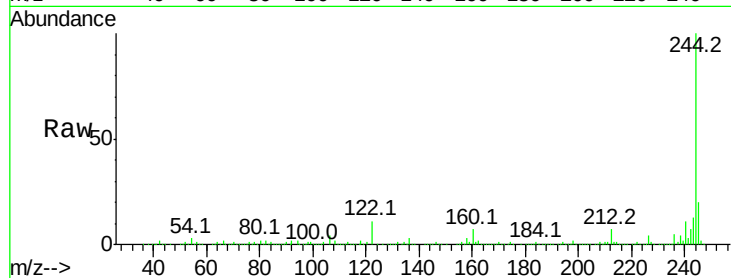




#78  
 Terphenyl-d14  
 Concen: 83.100 ng  
 RT: 12.94 min Scan# 1845  
 Delta R.T. -0.00 min  
 Lab File: BF101376.D  
 Acq: 13 Dec 2017 21:08

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:244 Resp: 1510859  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.4 8.0  
 122 11.0 11.0 16.4#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2276  
 Delta R.T. 0.01 min  
 Lab File: BF101376.D  
 Acq: 13 Dec 2017 21:08

Tgt Ion:264 Resp: 320932  
 Ion Ratio Lower Upper  
 264 100  
 260 24.2 19.2 28.8  
 265 21.1 17.5 26.3

