

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091318\  
 Data File : BF108977.D  
 Acq On : 13 Sep 2018 21:04  
 Operator : JU/SJ  
 Sample : J4875-05  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Sep 14 01:58:15 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF090518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 05 18:03:31 2018  
 Response via : Initial Calibration

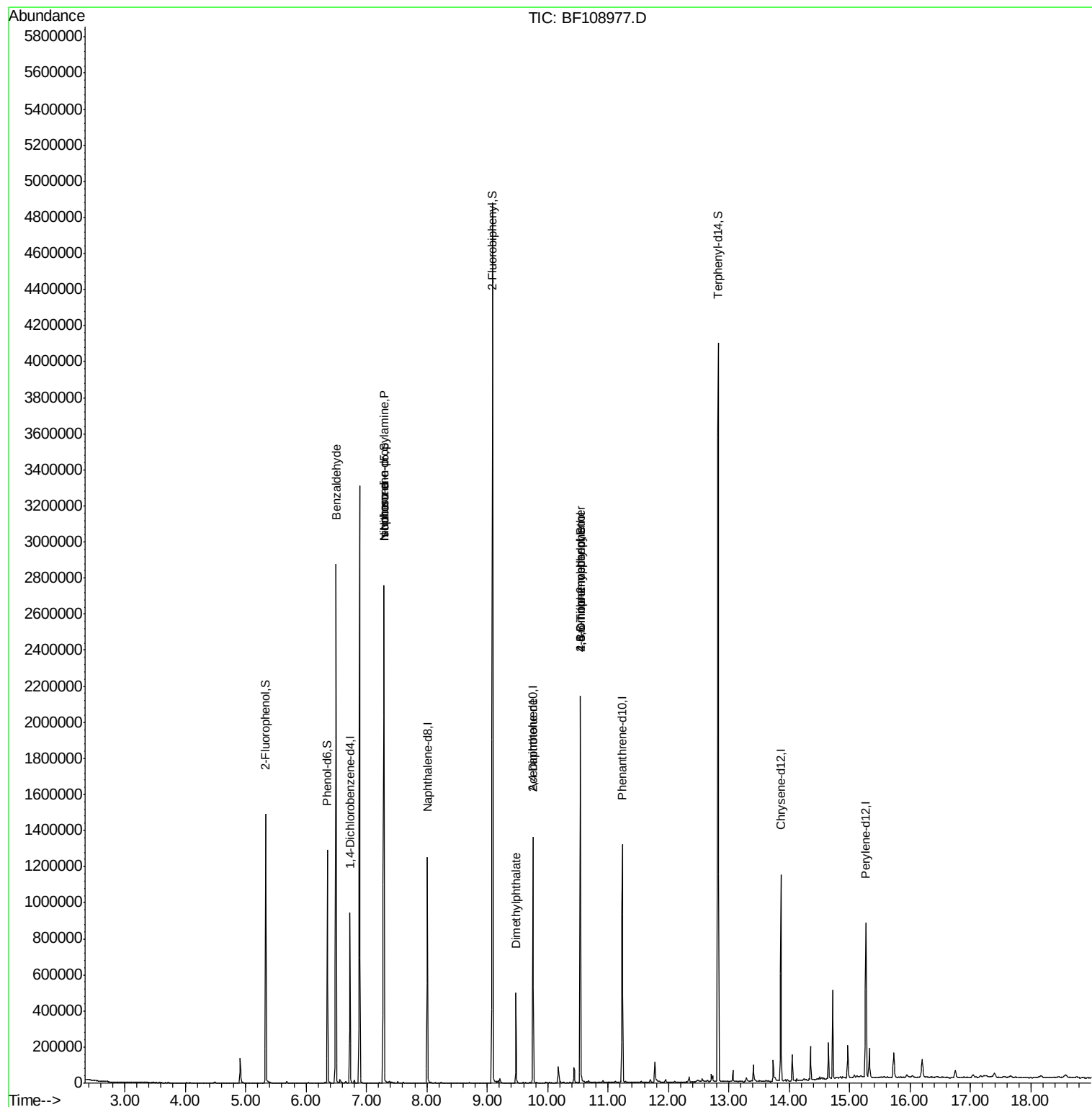
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.73  | 152  | 145021   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.01  | 136  | 534877   | 20.00  | ng    | -0.01    |
| 38) Acenaphthene-d10           | 9.76  | 164  | 242233   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.24 | 188  | 437989   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 13.86 | 240  | 358960   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.27 | 264  | 399973   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.33  | 112  | 419663   | 47.94  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.35  | 99   | 360962   | 32.05  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.29  | 82   | 964160   | 112.81 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.54 | 330  | 257414   | 111.32 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.09  | 172  | 1570682  | 110.62 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.82 | 244  | 1463235  | 95.06  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 9) Benzaldehyde                | 6.50  | 77   | 16469    | 2.061  | ng    | # 77     |
| 19) n-Nitroso-di-n-propylamine | 7.29  | 70   | 130512   | 16.670 | ng    | # 79     |
| 25) Isophorone                 | 7.29  | 82   | 961123   | 56.376 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.48  | 163  | 176957   | 10.445 | ng    | # 99     |
| 56) 2,4-Dinitrotoluene         | 9.76  | 165  | 31691    | 7.676  | ng    | # 24     |
| 64) 4,6-Dinitro-2-methylphenol | 10.54 | 198  | 394      | 7.064  | ng    | # 1      |
| 66) 4-Bromophenyl-phenylether  | 10.54 | 248  | 14850    | 3.002  | ng    | # 1      |

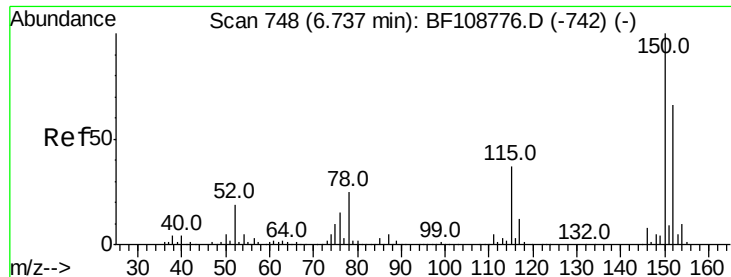
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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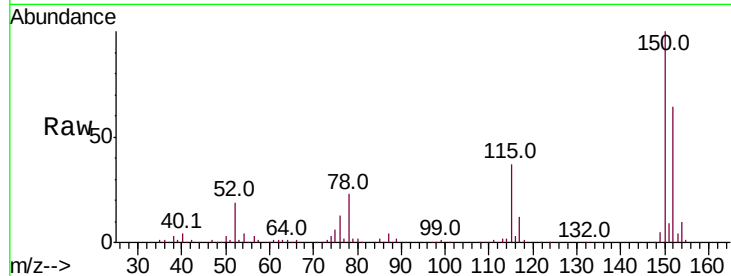


#1

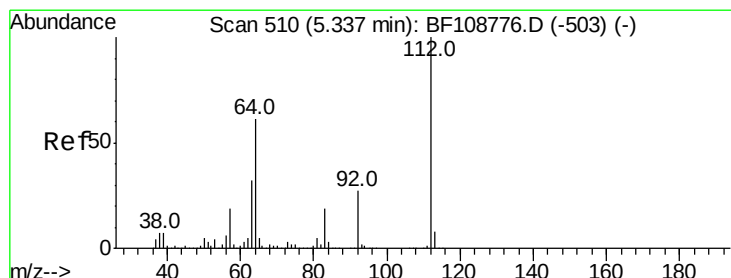
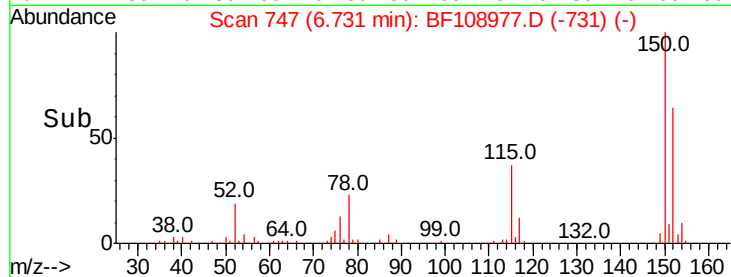
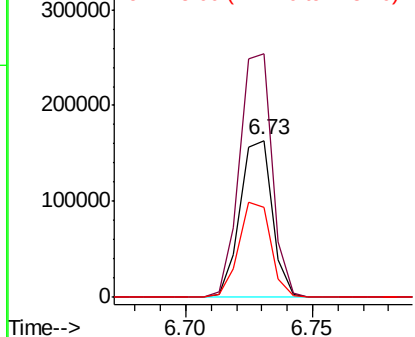
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 747  
Delta R.T. -0.01 min  
Lab File: BF108977.D  
Acq: 13 Sep 2018 21:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:152 Resp: 145021  
Ion Ratio Lower Upper  
152 100  
150 155.3 124.6 186.8  
115 57.1 50.1 75.1



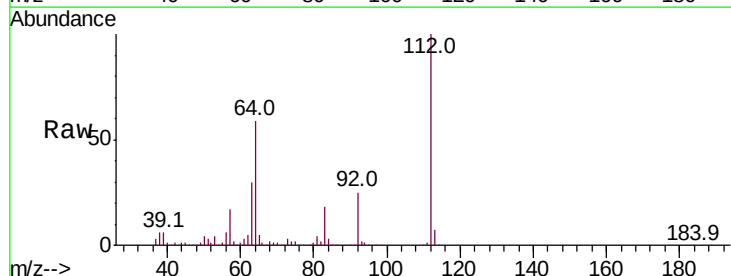
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



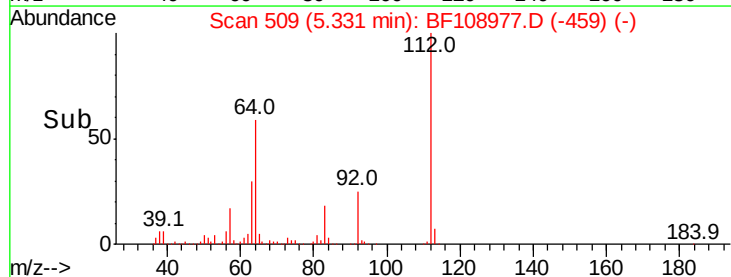
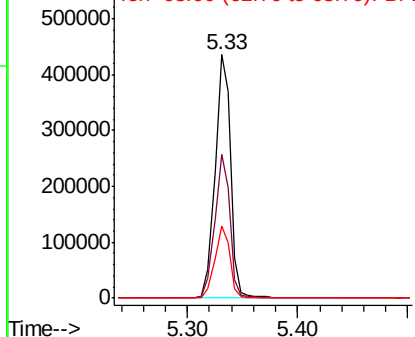
#5

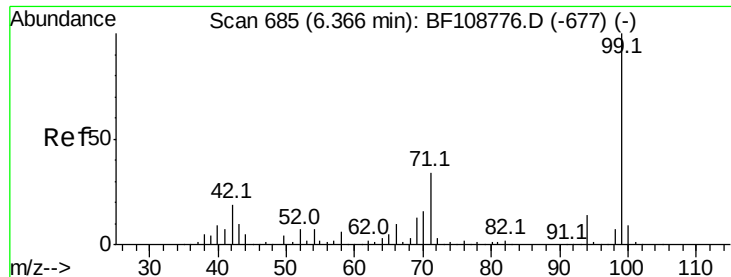
2-Fluorophenol  
Concen: 47.941 ng  
RT: 5.33 min Scan# 509  
Delta R.T. -0.01 min  
Lab File: BF108977.D  
Acq: 13 Sep 2018 21:04

Tgt Ion:112 Resp: 419663  
Ion Ratio Lower Upper  
112 100  
64 59.3 47.9 71.9  
63 29.5 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: 32.048 ng

RT: 6.35 min Scan# 683

Delta R.T. -0.01 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

Instrument :

BNA\_F

ClientSampleId :

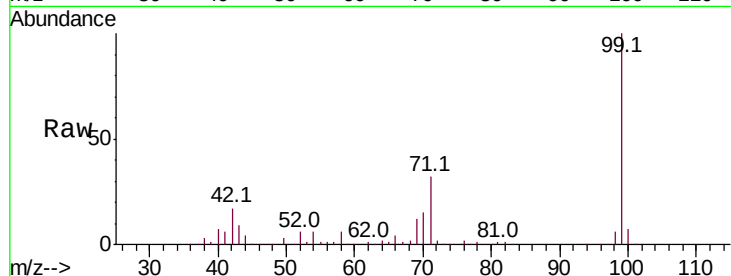
Tot Ion: 99 Resp: 360962

Ion Ratio Lower Upper

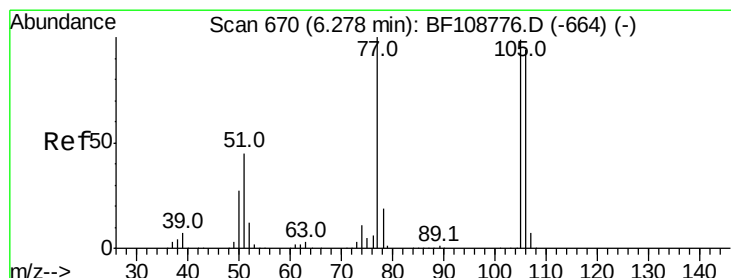
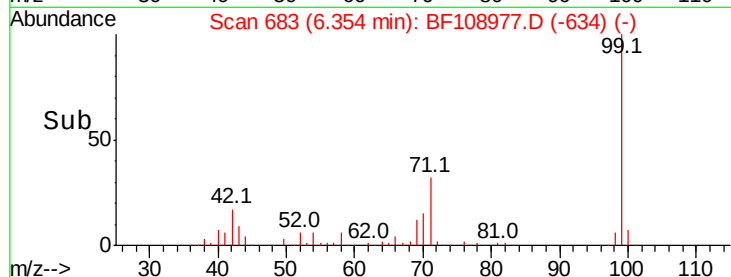
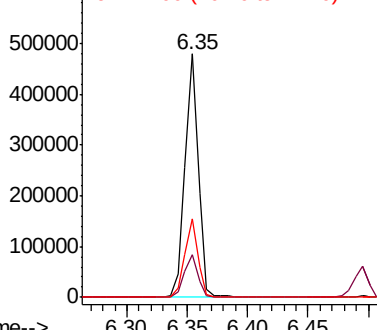
99 100

42 17.4 14.5 21.7

71 32.5 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#9

Benzaldehyde

Concen: 2.061 ng

RT: 6.50 min Scan# 707

Delta R.T. 0.22 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

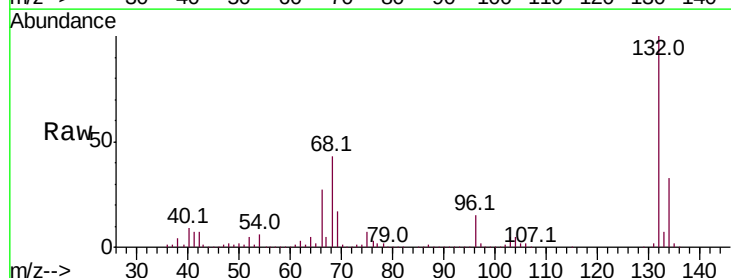
Tgt Ion: 77 Resp: 16469

Ion Ratio Lower Upper

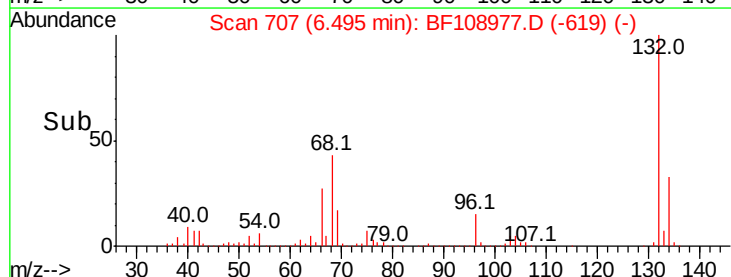
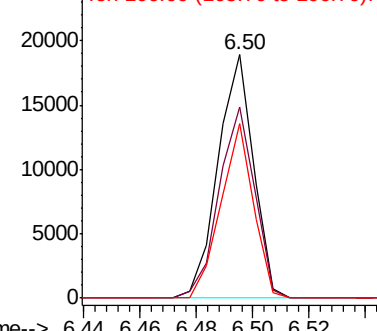
77 100

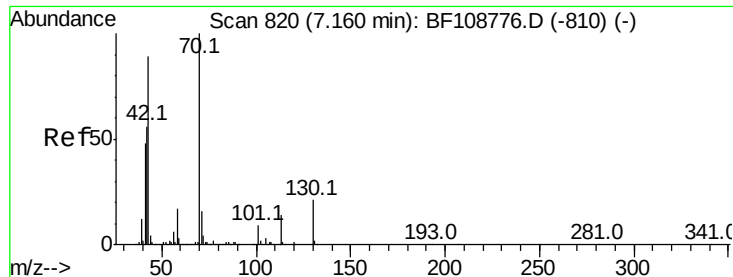
105 78.5 81.1 121.1#

106 71.4 74.5 114.5#



Abundance Ion 77.00 (76.70 to 77.70): BF1  
Ion 105.00 (104.70 to 105.70): E  
Ion 106.00 (105.70 to 106.70): E

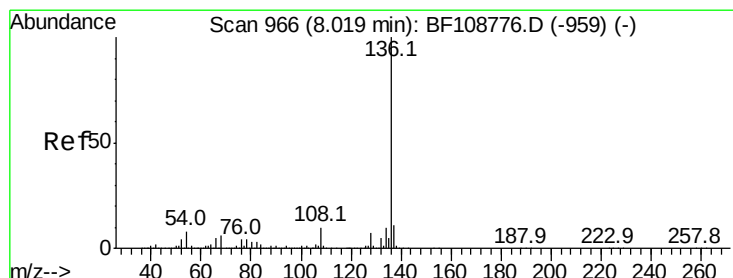
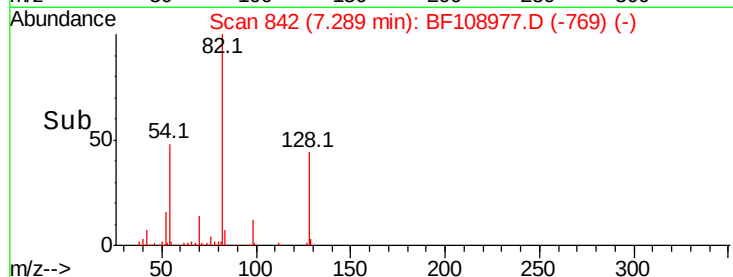
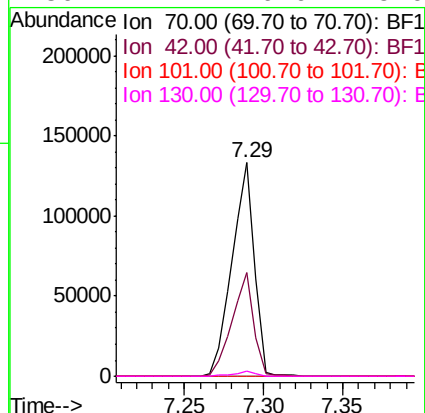
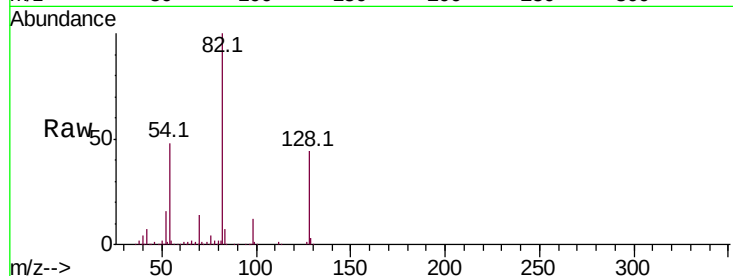




#19  
n-Nitroso-di-n-propylamine  
Concen: 16.670 ng  
RT: 7.29 min Scan# 842  
Delta R.T. 0.13 min  
Lab File: BF108977.D  
Acq: 13 Sep 2018 21:04

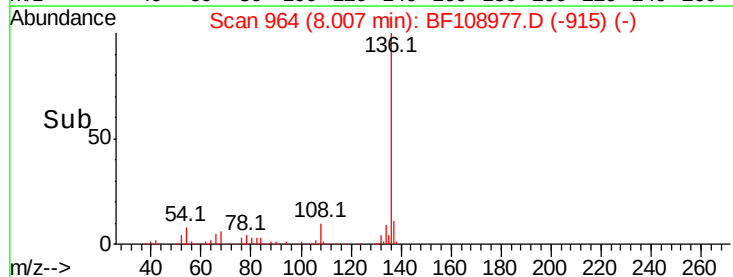
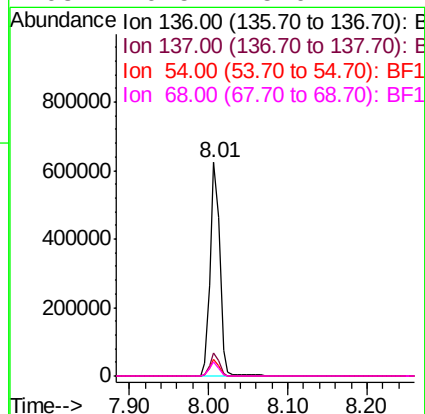
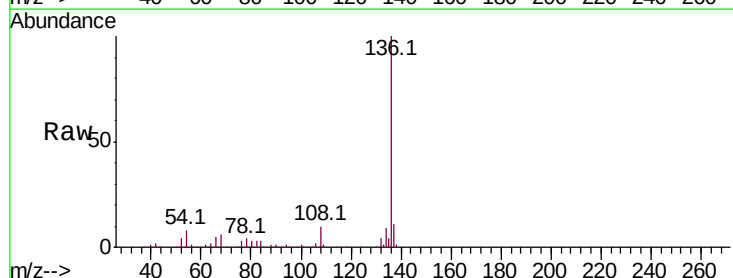
Instrument :  
BNA\_F  
ClientSampleId :

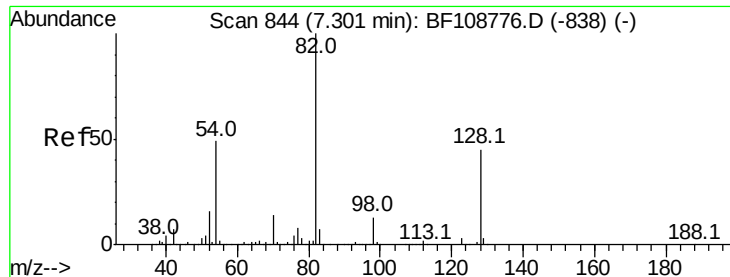
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 70    | Resp: | 130512 |
| Ion      | Ratio | Lower | Upper  |
| 70       | 100   |       |        |
| 42       | 48.6  | 47.5  | 71.3   |
| 101      | 0.0   | 7.4   | 11.2#  |
| 130      | 2.2   | 16.6  | 25.0#  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.01 min Scan# 964  
Delta R.T. -0.01 min  
Lab File: BF108977.D  
Acq: 13 Sep 2018 21:04

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 534877 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 8.9   | 13.3   |
| 54       | 7.8   | 6.6   | 9.8    |
| 68       | 6.5   | 5.0   | 7.4    |

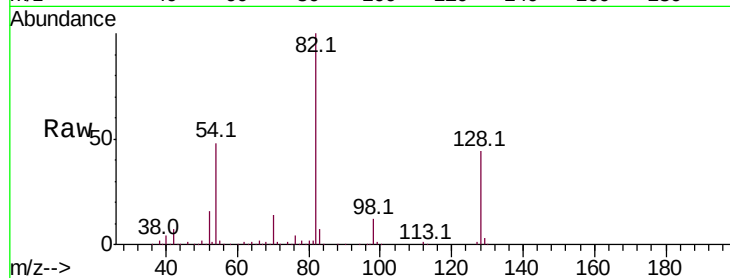




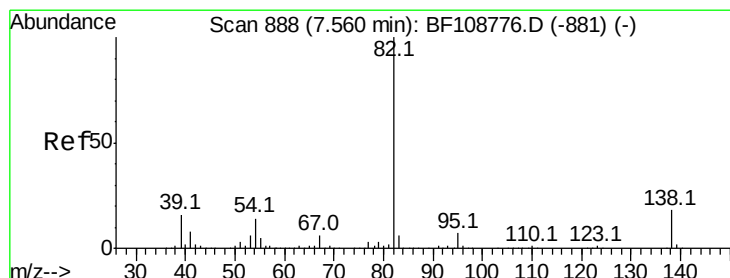
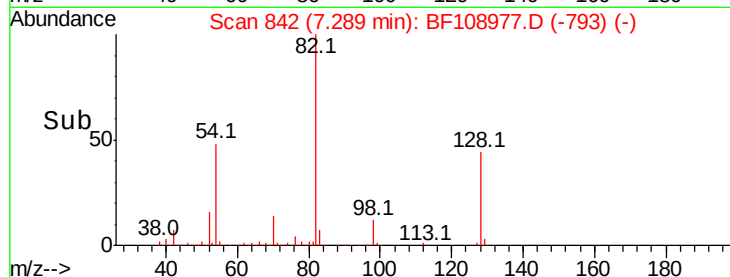
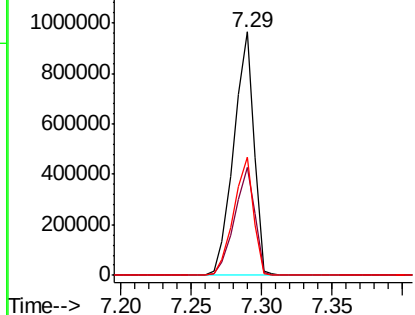
#23  
 Nitrobenzene-d5  
 Concen: 112.807 ng  
 RT: 7.29 min Scan# 842  
 Delta R.T. -0.01 min  
 Lab File: BF108977.D  
 Acq: 13 Sep 2018 21:04

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion   | 82    | Resp  | 964160 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 44.1  | 36.1  | 54.1   |
| 54        | 48.3  | 41.4  | 62.2   |

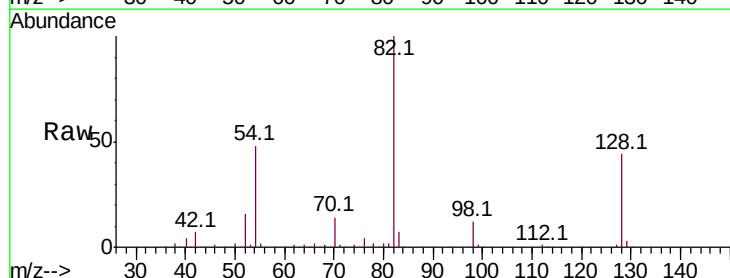


Abundance Ion 82.00 (81.70 to 82.70): BF1  
 Ion 128.00 (127.70 to 128.70): BF1  
 Ion 54.00 (53.70 to 54.70): BF1

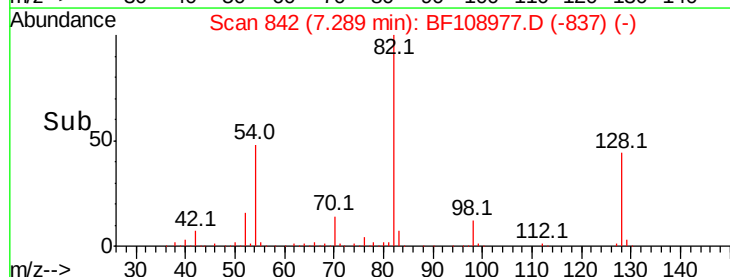
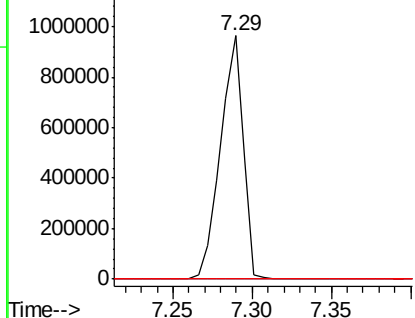


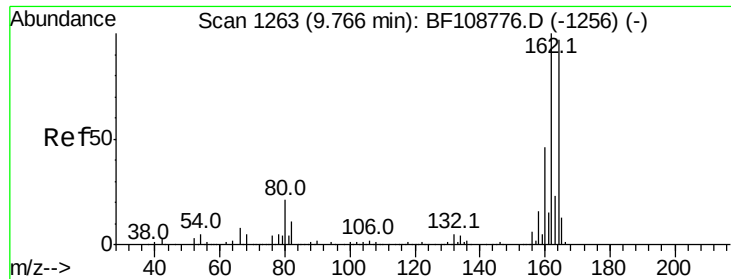
#25  
 Isophorone  
 Concen: 56.376 ng  
 RT: 7.29 min Scan# 842  
 Delta R.T. -0.27 min  
 Lab File: BF108977.D  
 Acq: 13 Sep 2018 21:04

| Tgt Ion   | 82    | Resp  | 961123 |
|-----------|-------|-------|--------|
| 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: 9.76 min Scan# 1262

Delta R.T. -0.01 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

Instrument :

BNA\_F

ClientSampleId :

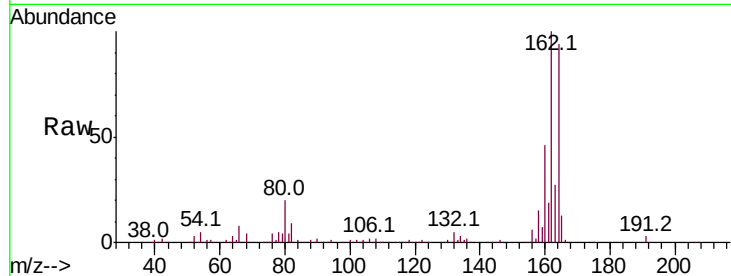
Tot Ion:164 Resp: 242233

Ion Ratio Lower Upper

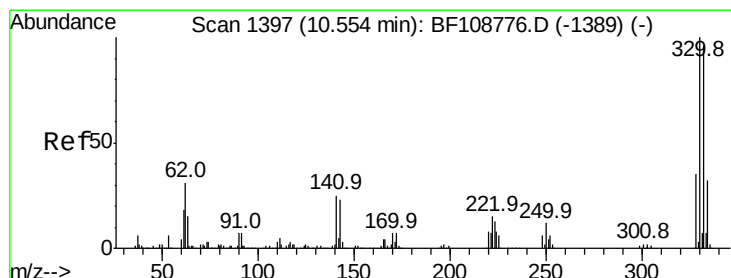
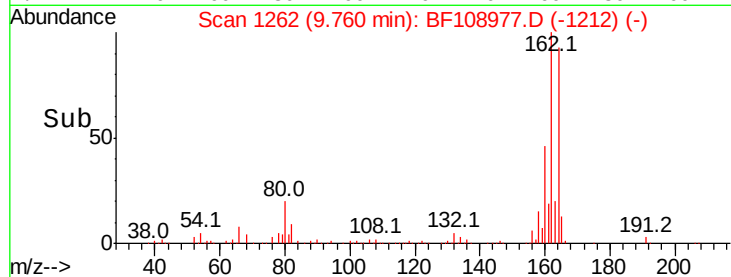
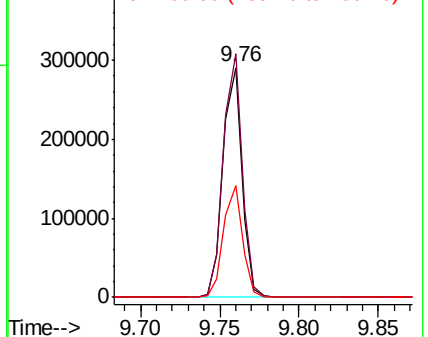
164 100

162 106.1 86.1 129.1

160 49.0 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: 111.315 ng

RT: 10.54 min Scan# 1395

Delta R.T. -0.01 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

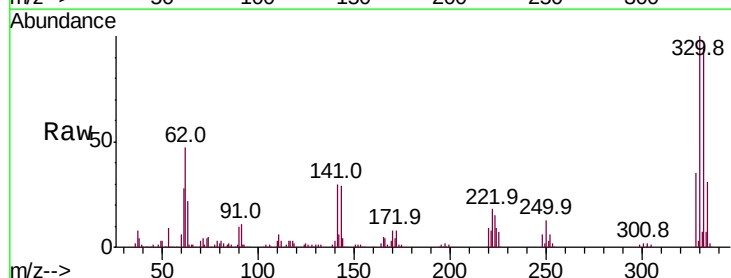
Tgt Ion:330 Resp: 257414

Ion Ratio Lower Upper

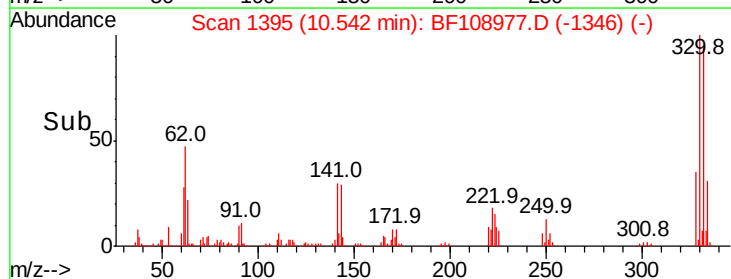
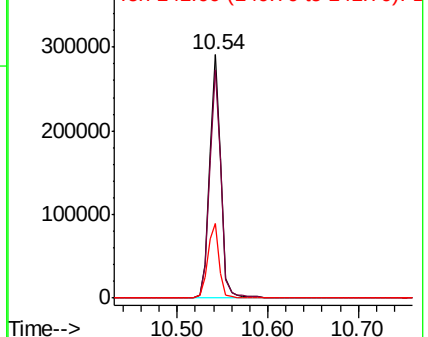
330 100

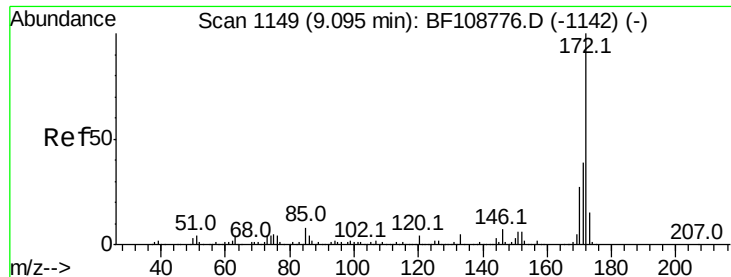
332 95.2 77.0 115.6

141 31.4 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

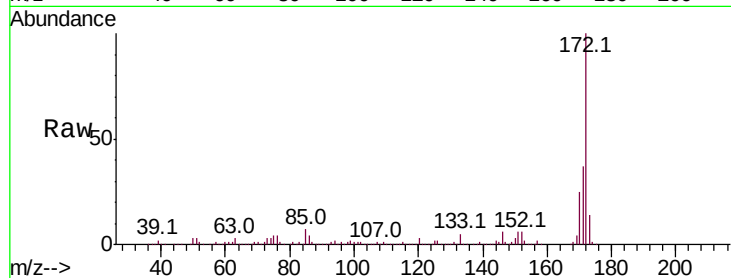




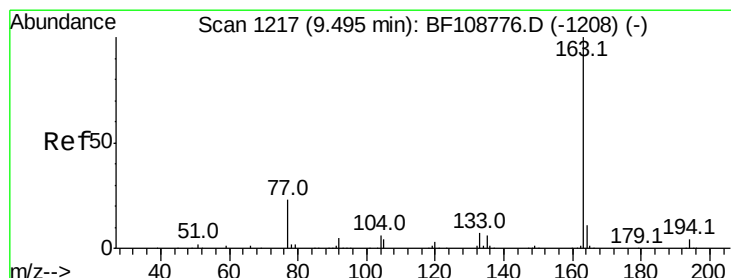
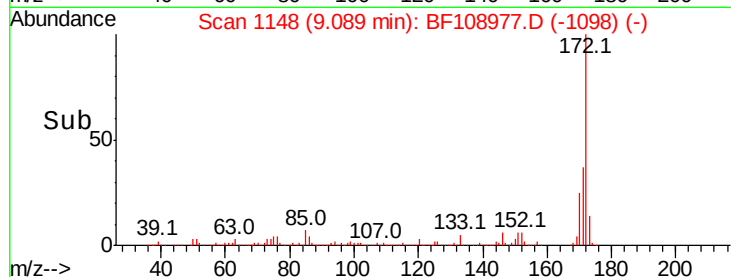
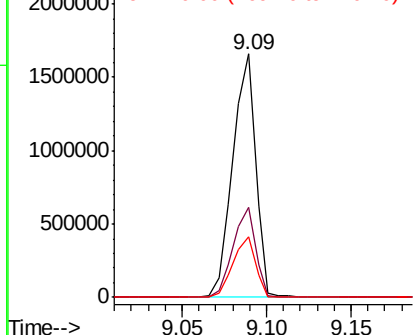
#44  
2-Fluorobiphenyl  
Concen: 110.619 ng  
RT: 9.09 min Scan# 1148  
Delta R.T. -0.01 min  
Lab File: BF108977.D  
Acq: 13 Sep 2018 21:04

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:172 Resp: 1570682  
Ion Ratio Lower Upper  
172 100  
171 37.0 29.7 44.5  
170 24.7 19.6 29.4

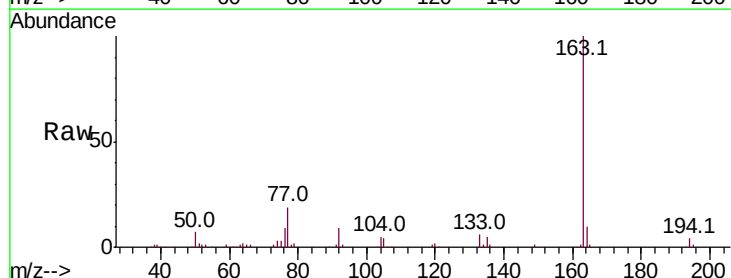


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

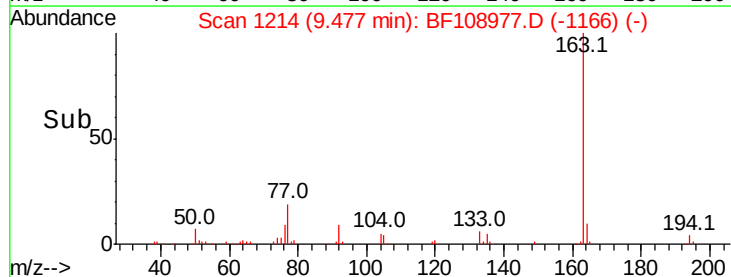
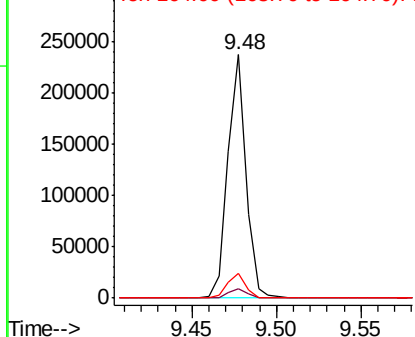


#49  
Dimethylphthalate  
Concen: 10.445 ng  
RT: 9.48 min Scan# 1214  
Delta R.T. -0.02 min  
Lab File: BF108977.D  
Acq: 13 Sep 2018 21:04

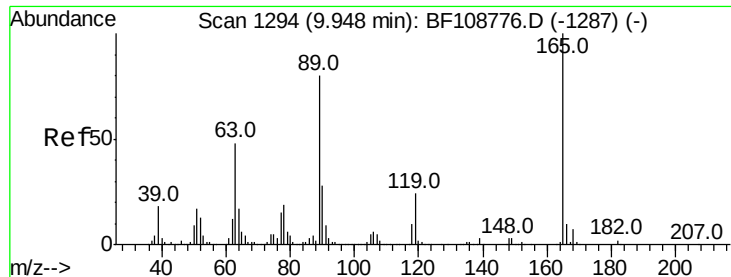
Tgt Ion:163 Resp: 176957  
Ion Ratio Lower Upper  
163 100  
194 3.9 2.7 4.1  
164 10.1 8.2 12.2



Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E



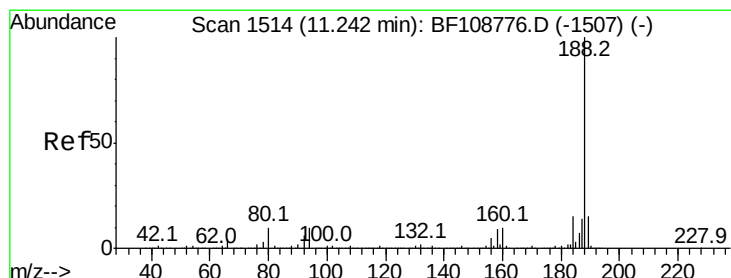
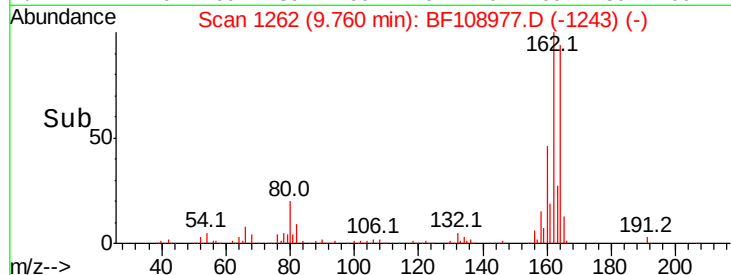
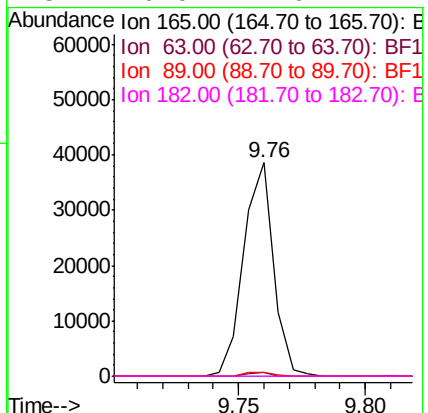
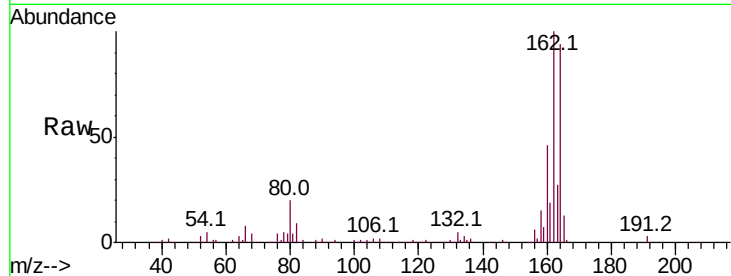




#56  
 2,4-Dinitrotoluene  
 Concen: 7.676 ng  
 RT: 9.76 min Scan# 1262  
 Delta R.T. -0.19 min  
 Lab File: BF108977.D  
 Acq: 13 Sep 2018 21:04

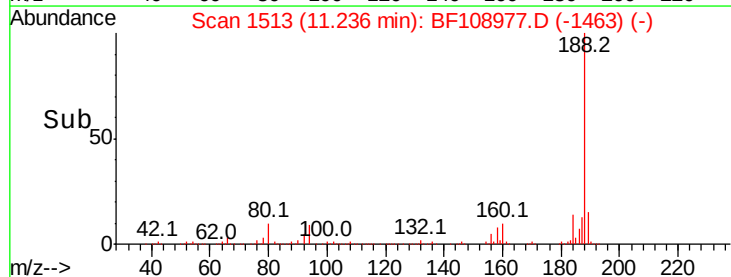
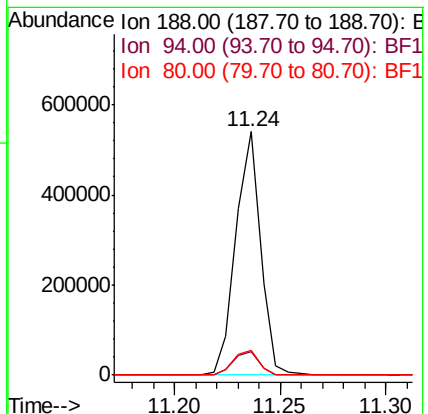
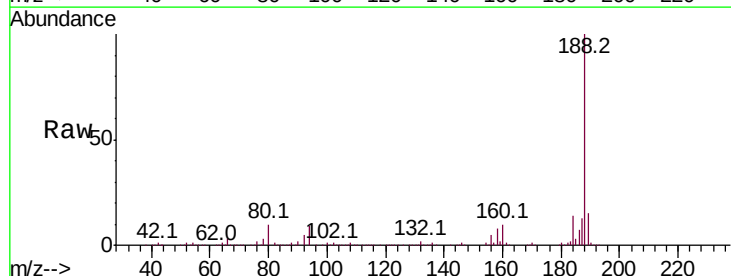
Instrument :  
 BNA\_F  
 ClientSampleId :

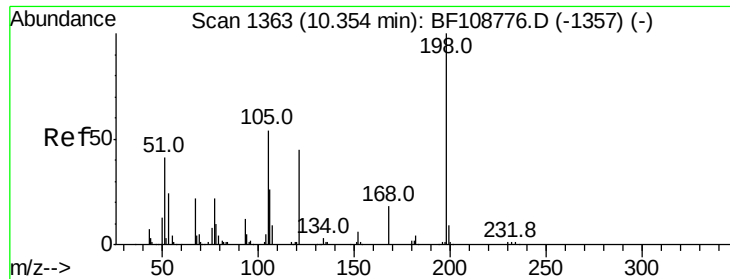
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.7   | 36.4  | 54.6# |
| 89      | 1.9   | 57.8  | 86.6# |
| 182     | 0.0   | 1.6   | 2.4#  |



#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.24 min Scan# 1513  
 Delta R.T. -0.01 min  
 Lab File: BF108977.D  
 Acq: 13 Sep 2018 21:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.4   | 8.5   | 12.7  |
| 80      | 10.1  | 9.2   | 13.8  |





#64

4,6-Dinitro-2-methylphenol

Concen: 7.064 ng

RT: 10.54 min Scan# 1395

Delta R.T. 0.19 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

Instrument :

BNA\_F

ClientSampled :

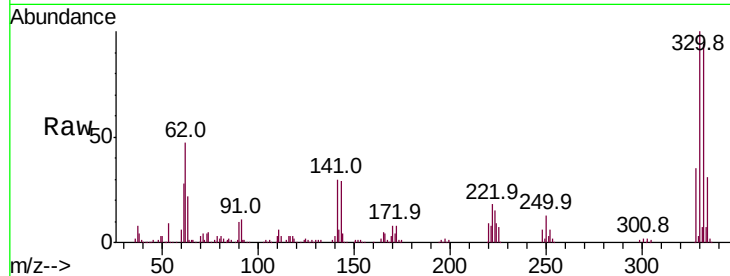
Tot Ion:198 Resp: 394

Ion Ratio Lower Upper

198 100

51 162.3 37.7 77.7#

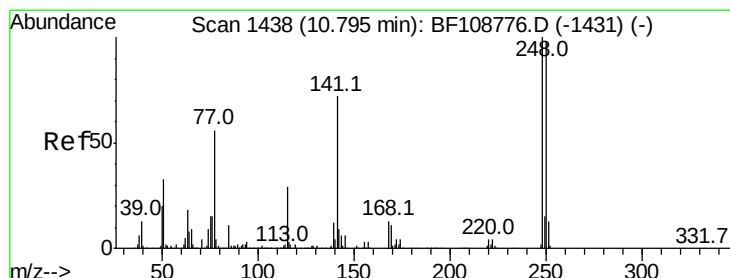
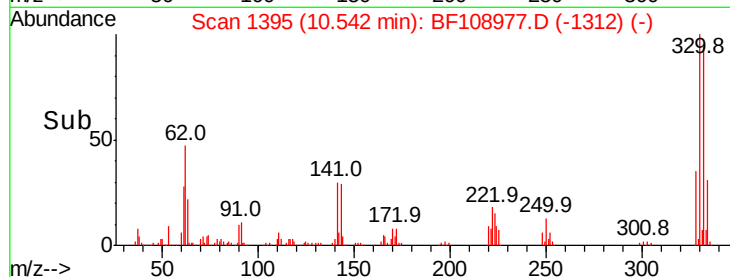
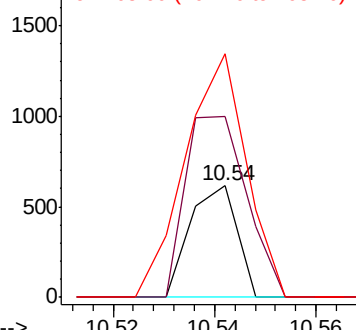
105 218.5 36.3 76.3#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E



#66

4-Bromophenyl-phenylether

Concen: 3.002 ng

RT: 10.54 min Scan# 1395

Delta R.T. -0.25 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

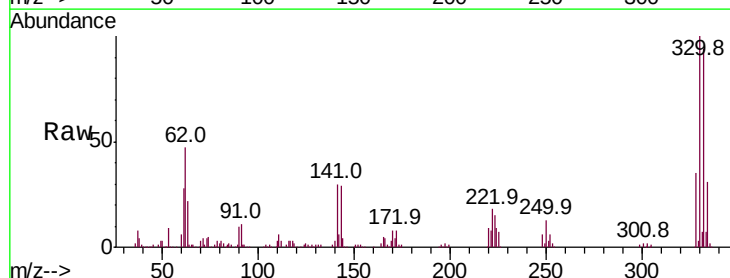
Tgt Ion:248 Resp: 14850

Ion Ratio Lower Upper

248 100

250 207.8 76.9 115.3#

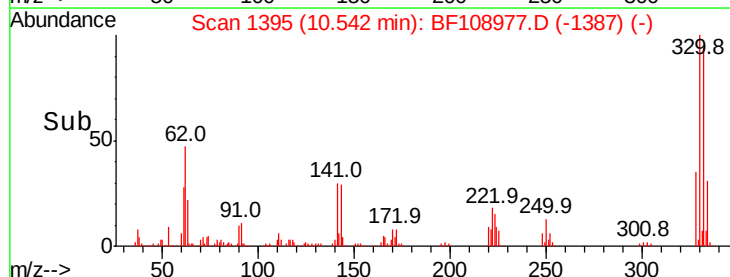
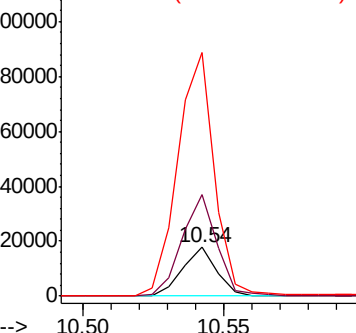
141 497.7 74.4 111.6#

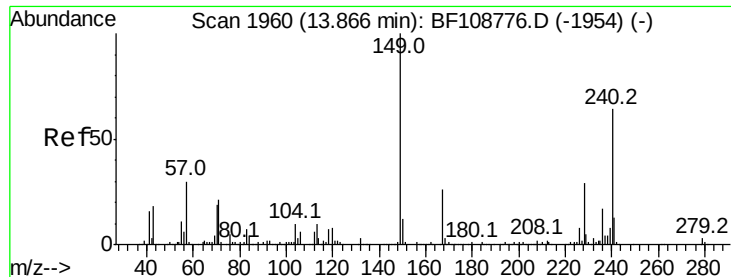


Abundance Ion 248.00 (247.70 to 248.70): E

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: 13.86 min Scan# 1959

Delta R.T. -0.01 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

Instrument :

BNA\_F

ClientSampleId :

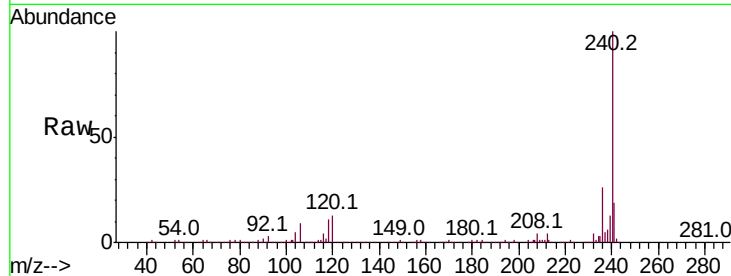
Tot Ion:240 Resp: 358960

Ion Ratio Lower Upper

240 100

120 12.5 9.5 14.3

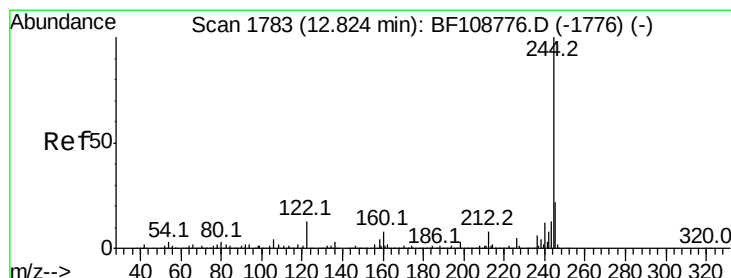
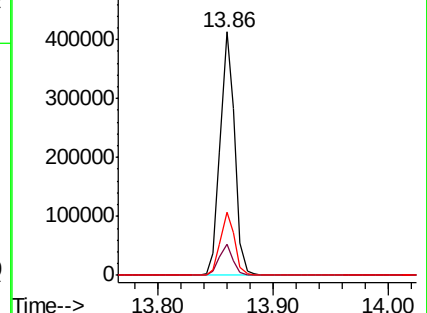
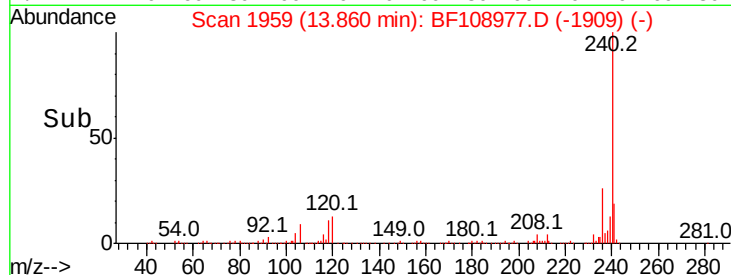
236 25.9 20.7 31.1



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: 95.056 ng

RT: 12.82 min Scan# 1783

Delta R.T. 0.00 min

Lab File: BF108977.D

Acq: 13 Sep 2018 21:04

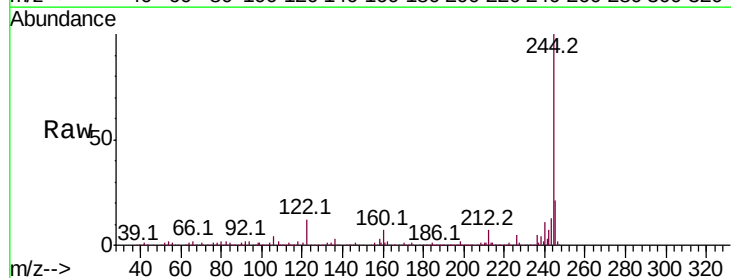
Tgt Ion:244 Resp: 1463235

Ion Ratio Lower Upper

244 100

212 7.5 5.4 8.0

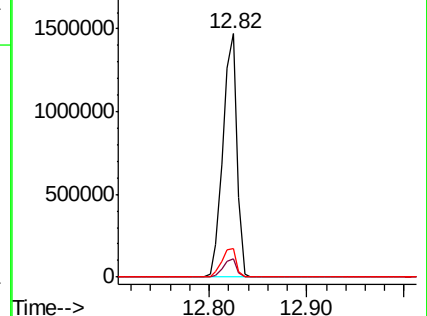
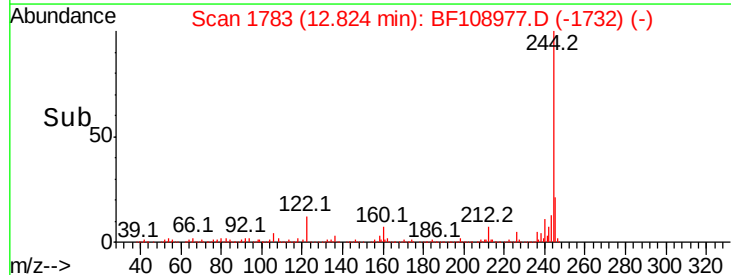
122 11.5 11.0 16.4

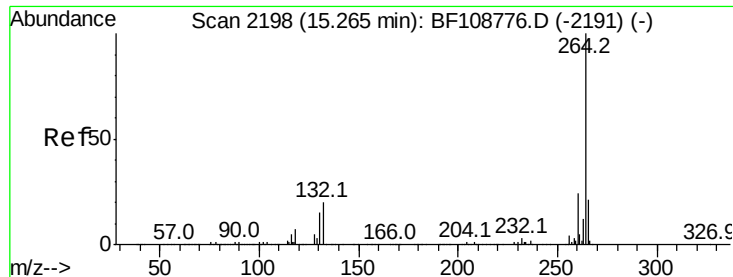


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.27 min Scan# 2198  
 Delta R.T. -0.00 min  
 Lab File: BF108977.D  
 Acq: 13 Sep 2018 21:04

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 19.2  | 28.8  |
| 265     | 21.6  | 17.5  | 26.3  |

