

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF082818\  
 Data File : BF108587.D  
 Acq On : 29 Aug 2018 6:05  
 Operator : JU/SJ  
 Sample : J4656-10  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 082418-DBRI-F-U-B

Quant Time: Aug 29 07:56:22 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 22 11:01:45 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.00  | 152  | 110524   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.28  | 136  | 413650   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 10.04 | 164  | 187003   | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 11.54 | 188  | 301306   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 14.19 | 240  | 272407   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12          | 15.75 | 264  | 212333   | 20.00 | ng    | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 227495   | 37.27  | ng    | 0.00     |
| 7) Phenol-d6                | 6.62  | 99   | 216044   | 26.63  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.57  | 82   | 742592   | 100.18 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 10.84 | 330  | 165925   | 88.95  | ng    | -0.01    |
| 44) 2-Fluorobiphenyl        | 9.35  | 172  | 1353788  | 116.23 | ng    | -0.01    |
| 78) Terphenyl-d14           | 13.12 | 244  | 963904   | 89.97  | ng    | 0.00     |

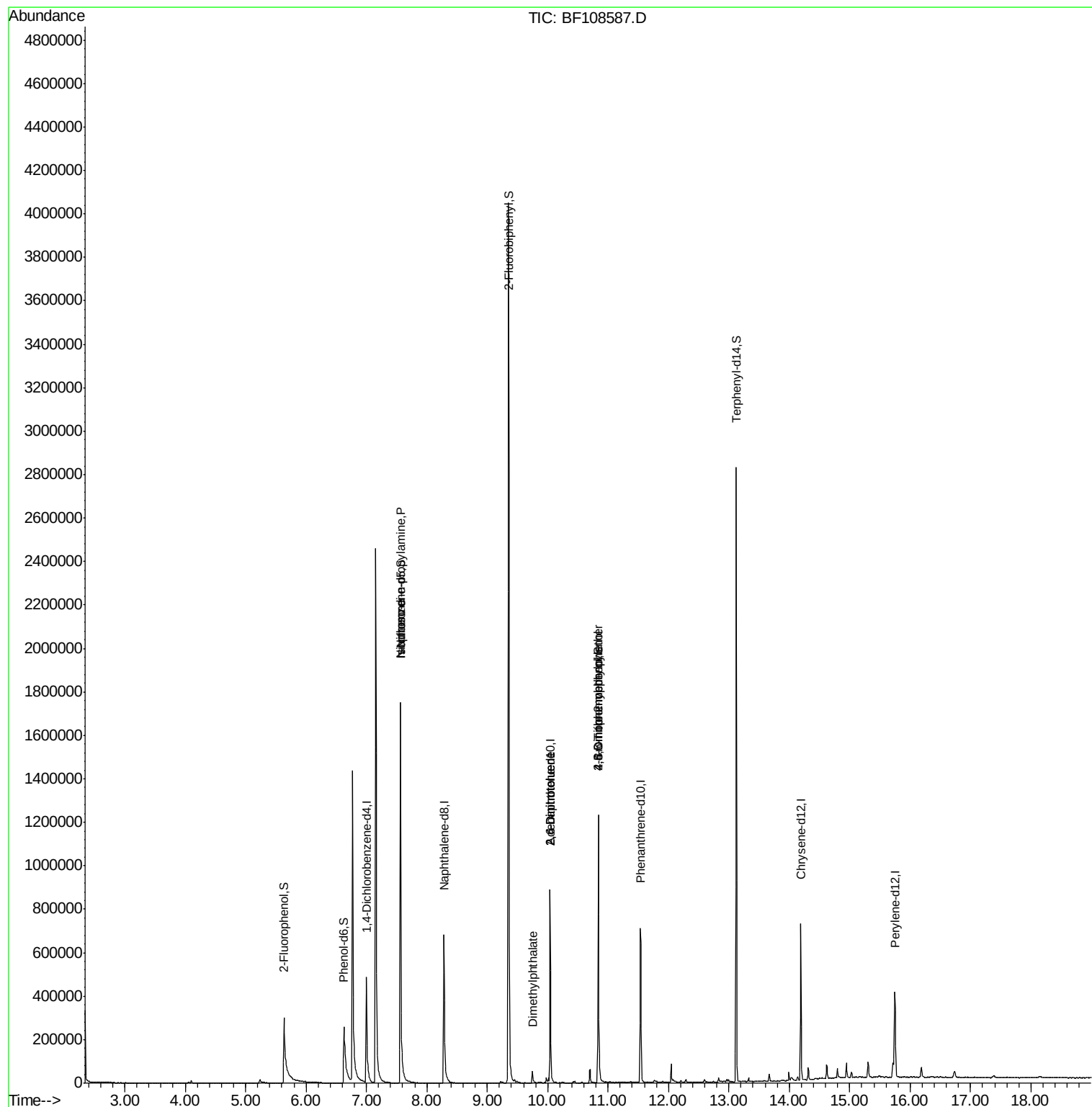
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.57  | 70   | 98012    | 17.866 | ng    | # 83   |
| 25) Isophorone                 | 7.57  | 82   | 742587   | 52.557 | ng    | # 64   |
| 49) Dimethylphthalate          | 9.75  | 163  | 32183    | 2.471  | ng    | # 99   |
| 50) 2,6-Dinitrotoluene         | 10.04 | 165  | 23264    | 8.536  | ng    | # 26   |
| 56) 2,4-Dinitrotoluene         | 10.04 | 165  | 23264    | 6.632  | ng    | # 24   |
| 64) 4,6-Dinitro-2-methylphenol | 10.84 | 198  | 288      | 5.585  | ng    | # 1    |
| 66) 4-Bromophenyl-phenylether  | 10.84 | 248  | 10275    | 3.138  | ng    | # 1    |

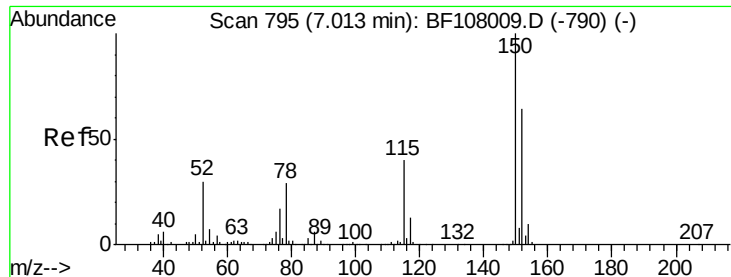
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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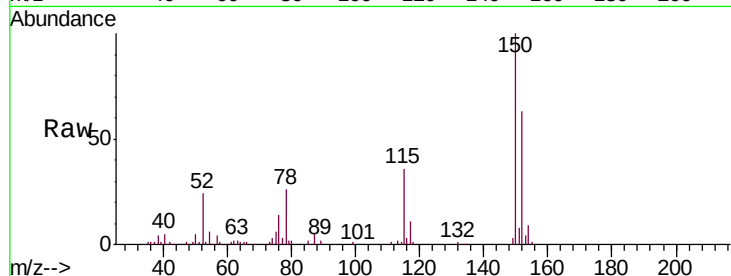


#1

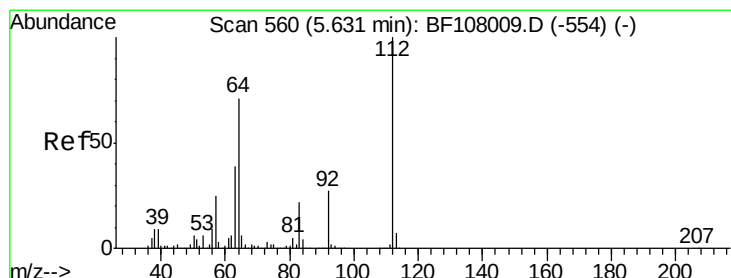
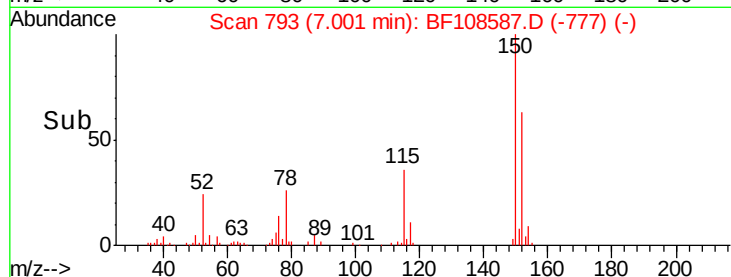
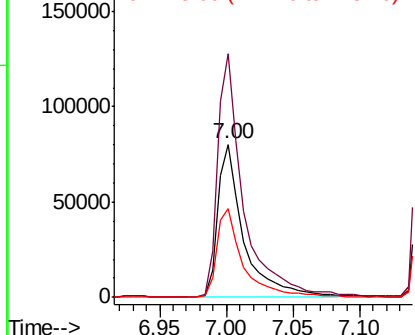
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.00 min Scan# 793  
Delta R.T. -0.01 min  
Lab File: BF108587.D  
Acq: 29 Aug 2018 6:05

Instrument :  
BNA\_F  
ClientSampleId :  
082418-DBRI-F-U-B

Tgt Ion:152 Resp: 110524  
Ion Ratio Lower Upper  
152 100  
150 158.9 124.6 186.8  
115 58.0 50.1 75.1



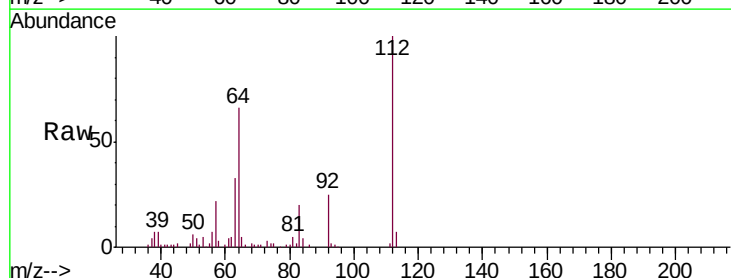
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



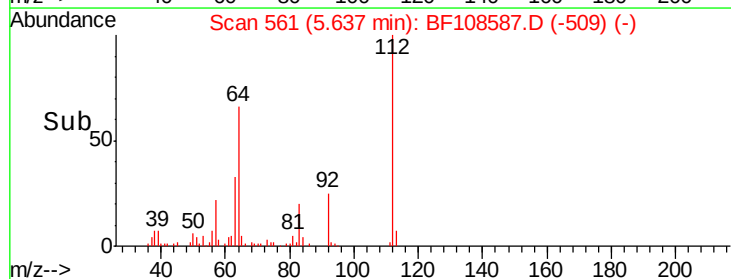
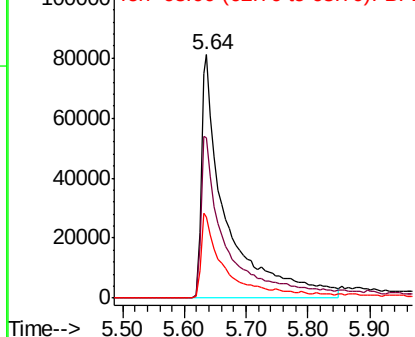
#5

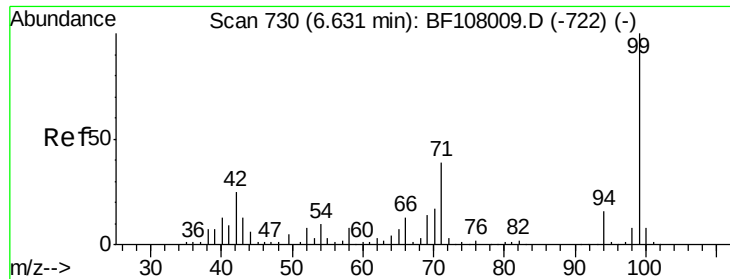
2-Fluorophenol  
Concen: 37.265 ng  
RT: 5.64 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF108587.D  
Acq: 29 Aug 2018 6:05

Tgt Ion:112 Resp: 227495  
Ion Ratio Lower Upper  
112 100  
64 66.1 47.9 71.9  
63 33.3 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: 26.631 ng

RT: 6.62 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

Instrument :

BNA\_F

ClientSampleId :

082418-DBRI-F-U-B

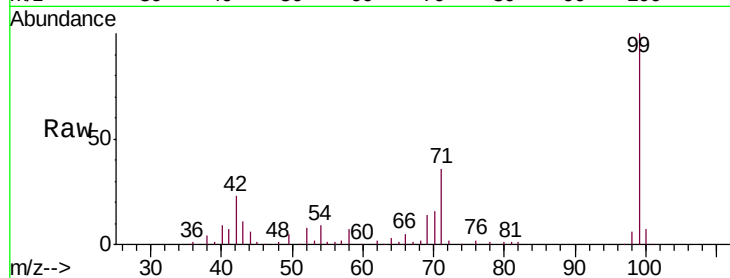
Tgt Ion: 99 Resp: 216044

Ion Ratio Lower Upper

99 100

42 22.6 14.5 21.7#

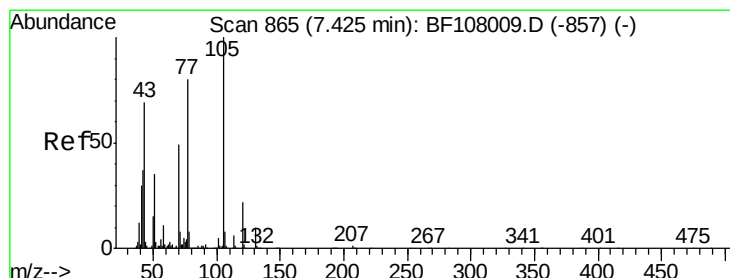
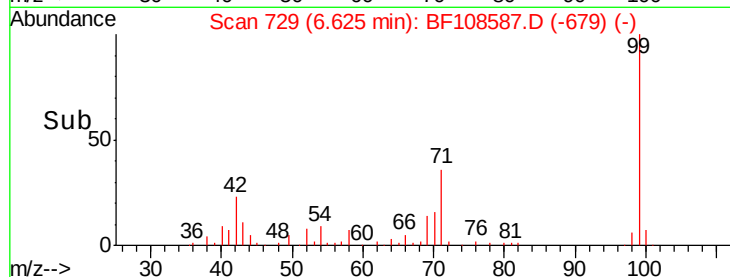
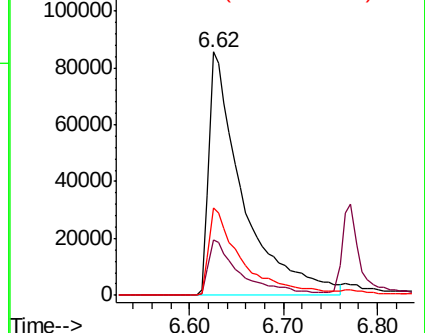
71 35.9 25.4 38.0



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



#19

n-Nitroso-di-n-propylamine

Concen: 17.866 ng

RT: 7.57 min Scan# 889

Delta R.T. 0.15 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

Tgt Ion: 70 Resp: 98012

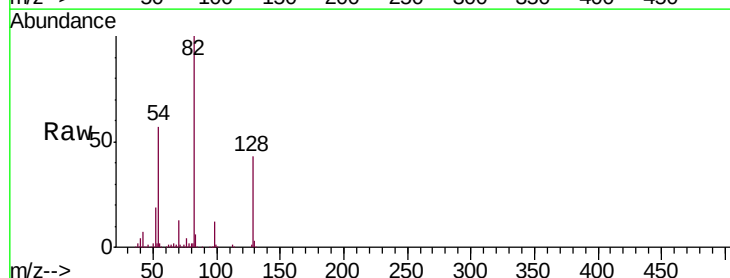
Ion Ratio Lower Upper

70 100

42 53.4 47.5 71.3

101 0.0 7.4 11.2#

130 1.9 16.6 25.0#

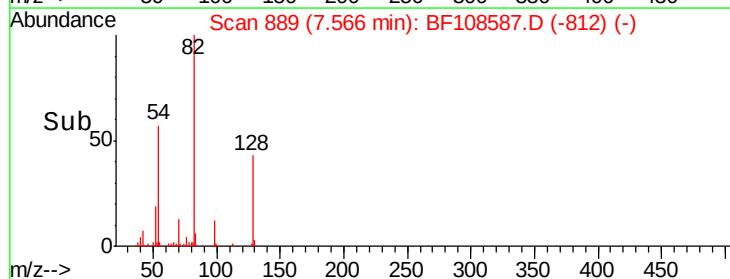
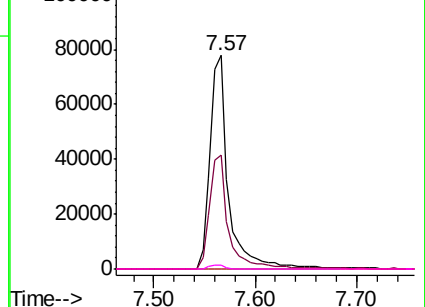


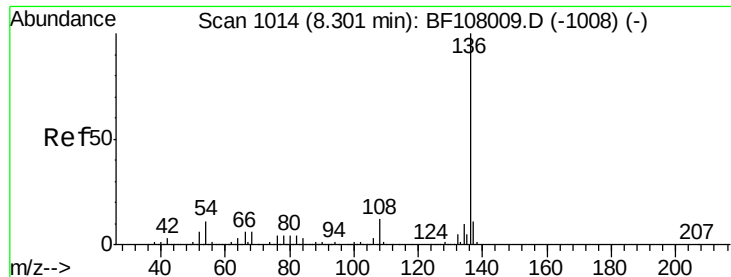
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

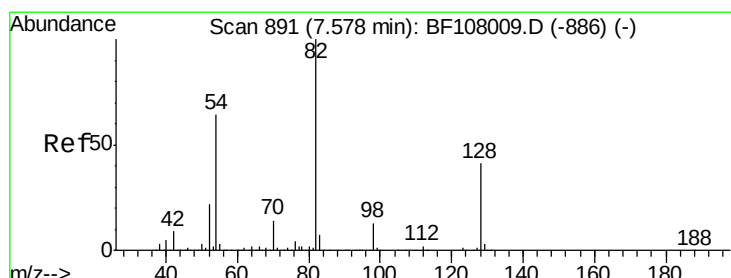
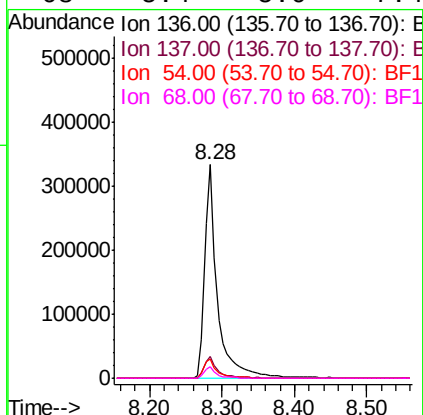
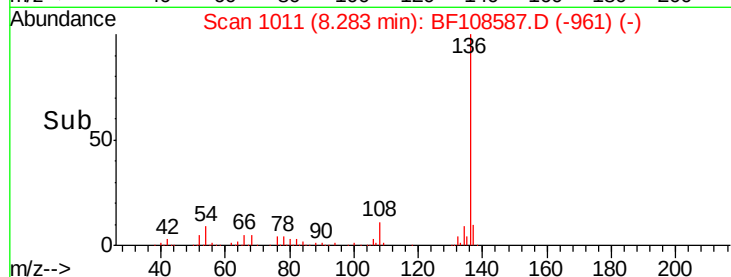
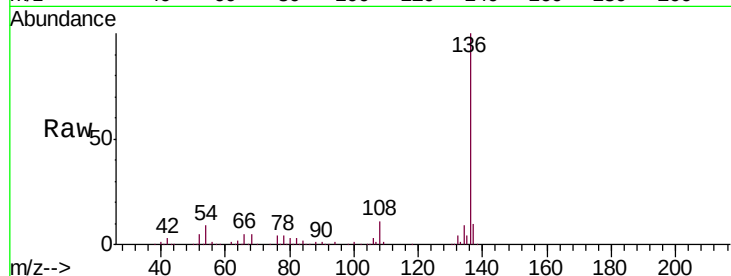




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.28 min Scan# 1011  
Delta R.T. -0.01 min  
Lab File: BF108587.D  
Acq: 29 Aug 2018 6:05

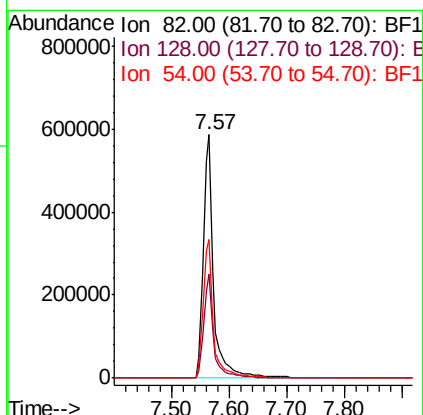
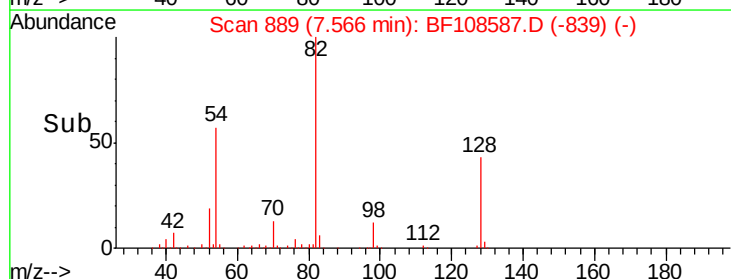
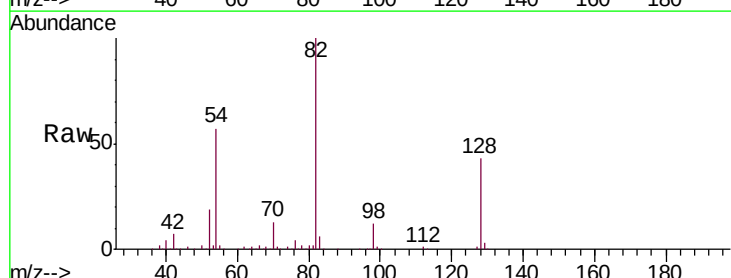
Instrument :  
BNA\_F  
ClientSampleId :  
082418-DBRI-F-U-B

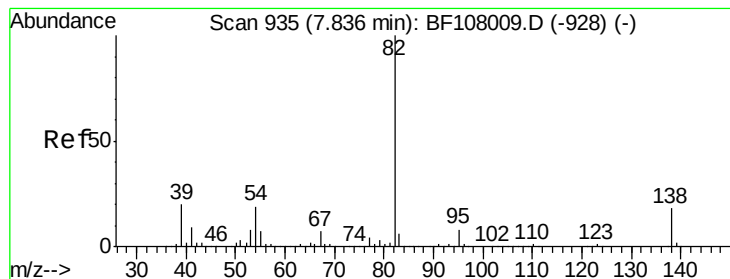
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 413650 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.4  | 8.9   | 13.3   |
| 54       | 9.2   | 6.6   | 9.8    |
| 68       | 5.4   | 5.0   | 7.4    |



#23  
Nitrobenzene-d5  
Concen: 100.176 ng  
RT: 7.57 min Scan# 889  
Delta R.T. -0.01 min  
Lab File: BF108587.D  
Acq: 29 Aug 2018 6:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 742592 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.6  | 36.1  | 54.1   |
| 54       | 57.1  | 41.4  | 62.2   |





#25

Isophorone

Concen: 52.557 ng

RT: 7.57 min Scan# 889

Delta R.T. -0.26 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

Instrument :

BNA\_F

ClientSampleId :

082418-DBRI-F-U-B

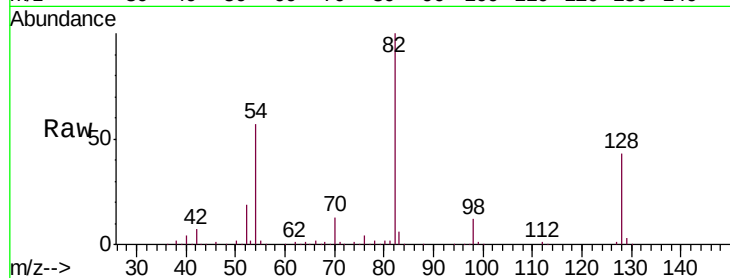
Tgt Ion: 82 Resp: 742587

Ion Ratio Lower Upper

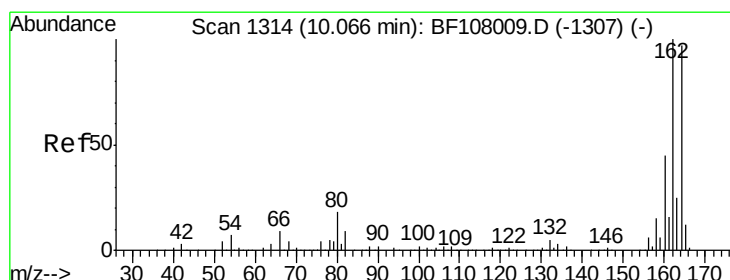
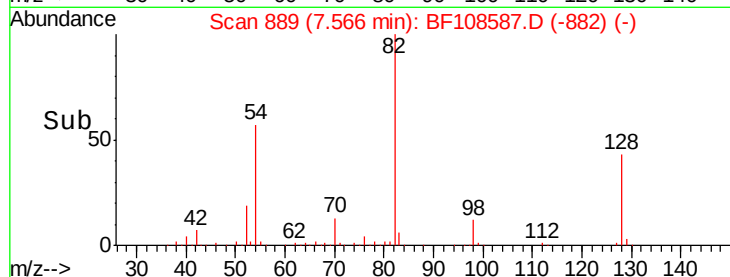
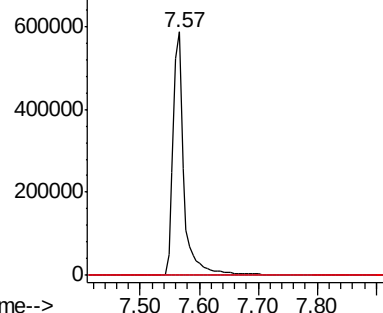
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1  
800000  
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: 10.04 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

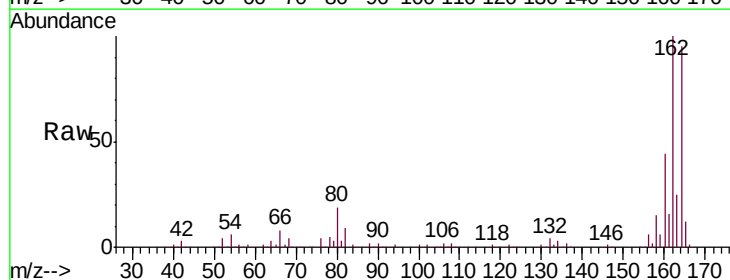
Tgt Ion: 164 Resp: 187003

Ion Ratio Lower Upper

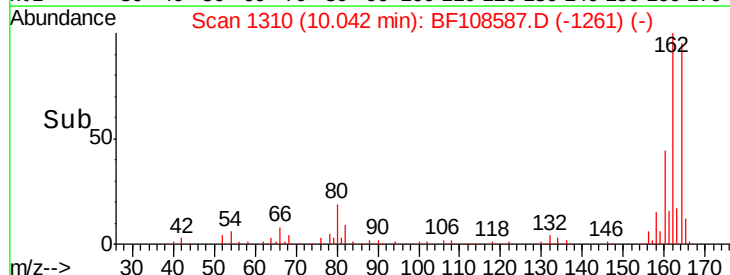
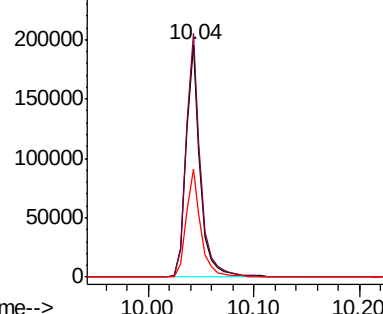
164 100

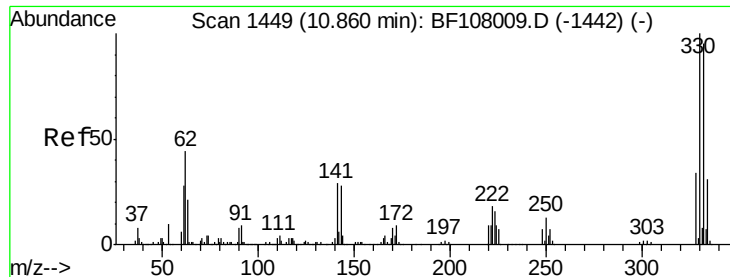
162 104.9 86.1 129.1

160 46.6 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E  
250000  
Ion 162.00 (161.70 to 162.70): E  
Ion 160.00 (159.70 to 160.70): E

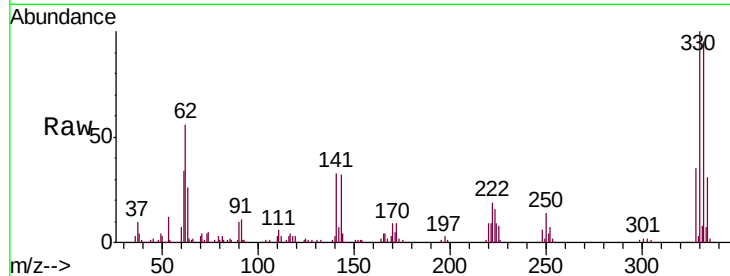




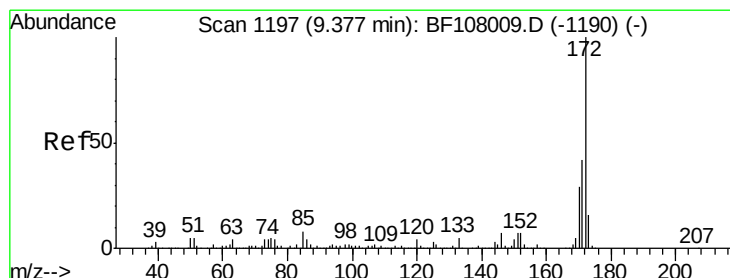
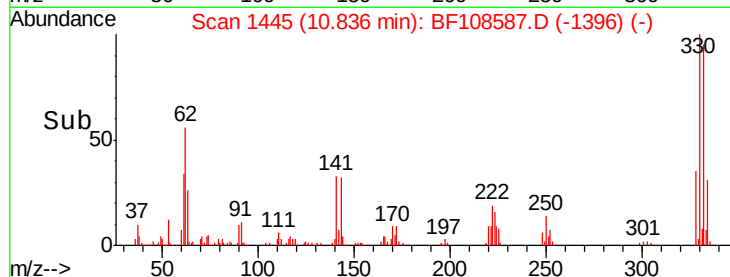
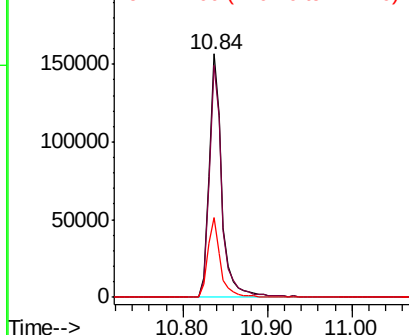
#41  
 2,4,6-Tribromophenol  
 Concen: 88.953 ng  
 RT: 10.84 min Scan# 1445  
 Delta R.T. -0.01 min  
 Lab File: BF108587.D  
 Acq: 29 Aug 2018 6:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 082418-DBRI-F-U-B

Tgt Ion:330 Resp: 165925  
 Ion Ratio Lower Upper  
 330 100  
 332 96.0 77.0 115.6  
 141 32.2 29.9 44.9

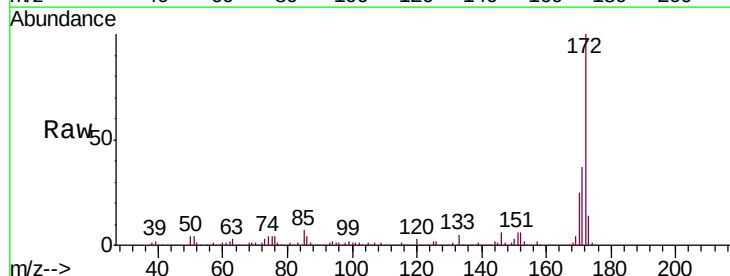


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

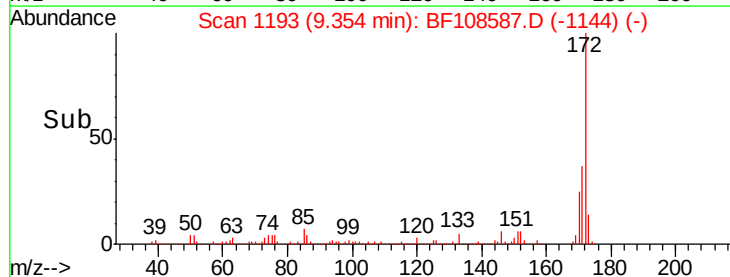
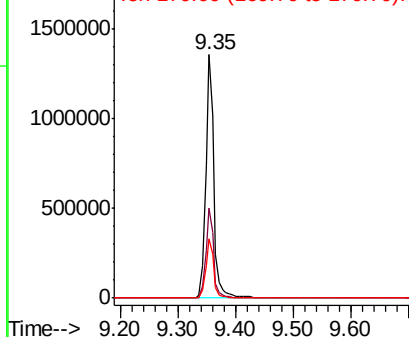


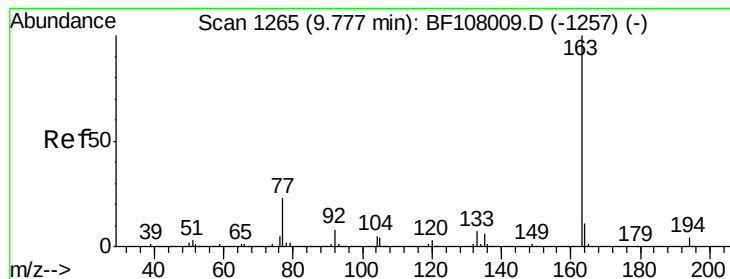
#44  
 2-Fluorobiphenyl  
 Concen: 116.226 ng  
 RT: 9.35 min Scan# 1193  
 Delta R.T. -0.01 min  
 Lab File: BF108587.D  
 Acq: 29 Aug 2018 6:05

Tgt Ion:172 Resp: 1353788  
 Ion Ratio Lower Upper  
 172 100  
 171 36.8 29.7 44.5  
 170 24.6 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: 2.471 ng

RT: 9.75 min Scan# 1260

Delta R.T. -0.02 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

Instrument :

BNA\_F

ClientSampleId :

082418-DBRI-F-U-B

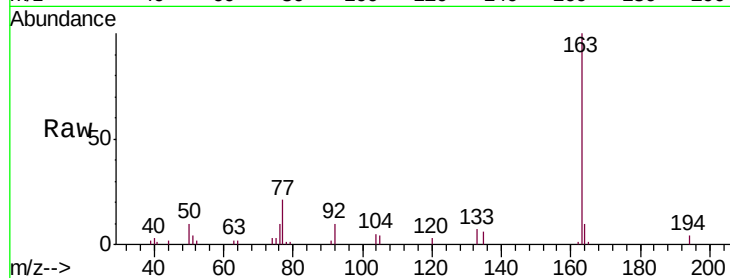
Tgt Ion:163 Resp: 32183

Ion Ratio Lower Upper

163 100

194 4.2 2.7 4.1#

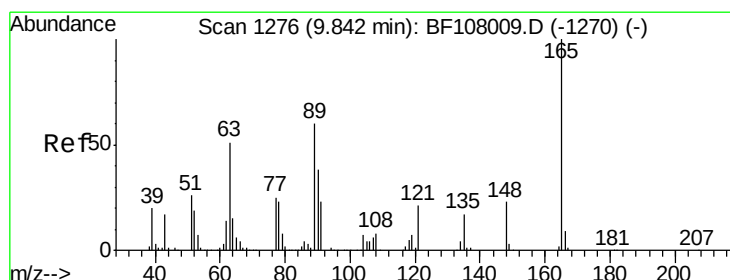
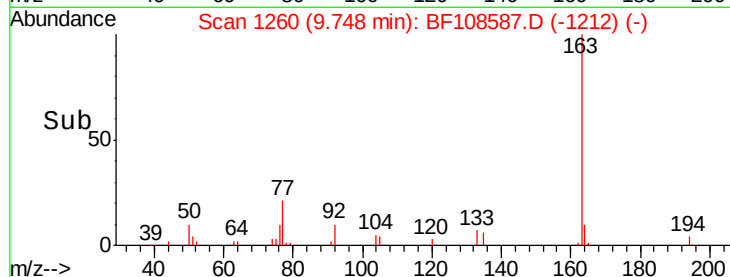
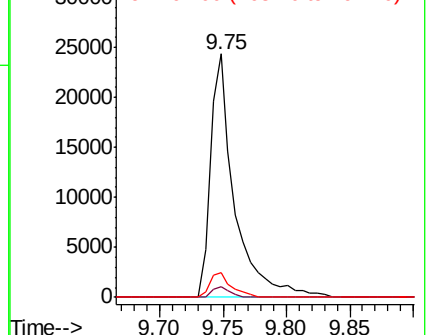
164 10.4 8.2 12.2



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



#50

2,6-Dinitrotoluene

Concen: 8.536 ng

RT: 10.04 min Scan# 1310

Delta R.T. 0.21 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

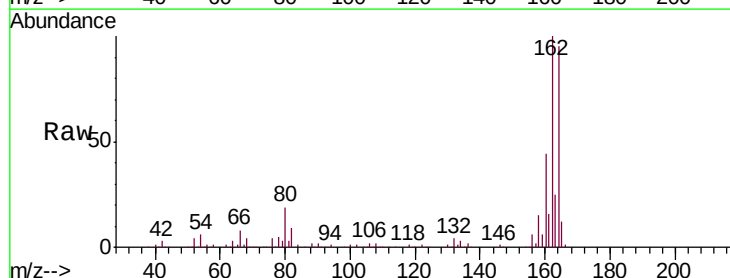
Tgt Ion:165 Resp: 23264

Ion Ratio Lower Upper

165 100

63 1.4 44.7 67.1#

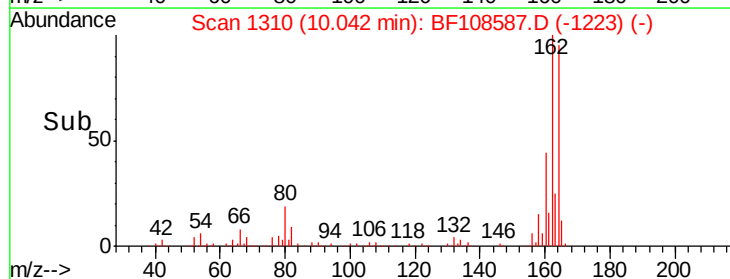
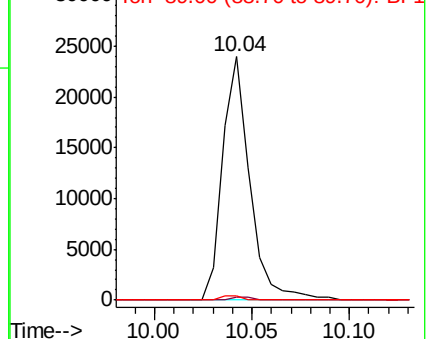
89 1.8 44.0 66.0#



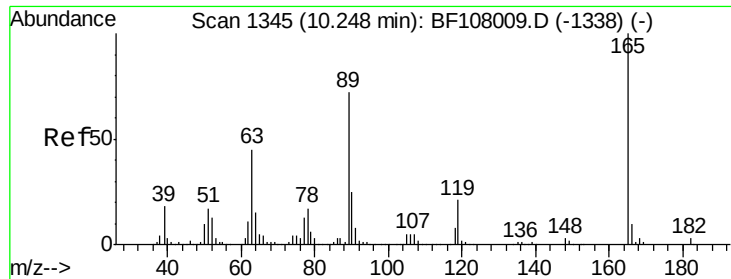
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



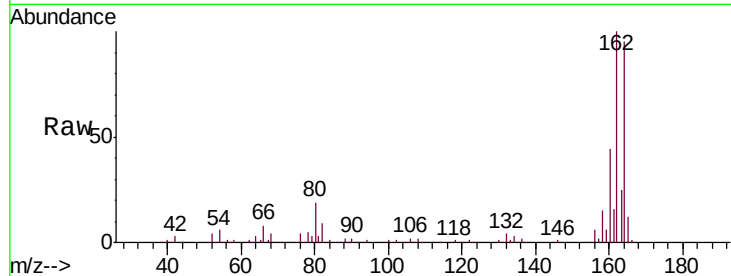




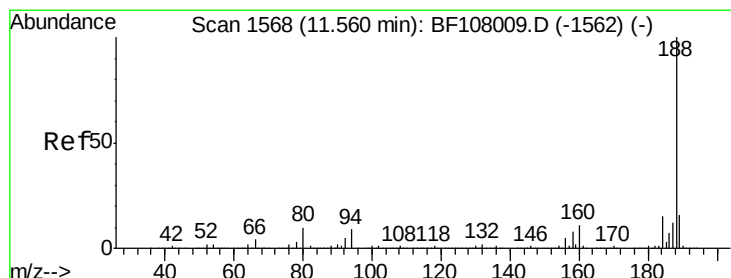
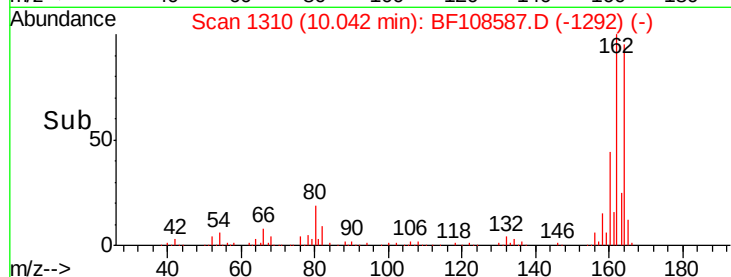
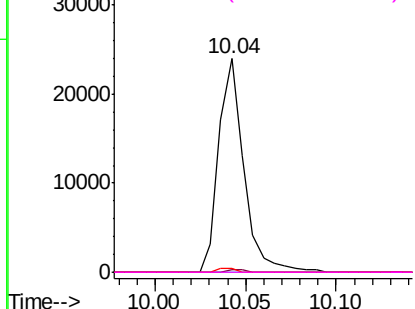
#56  
 2,4-Dinitrotoluene  
 Concen: 6.632 ng  
 RT: 10.04 min Scan# 1310  
 Delta R.T. -0.19 min  
 Lab File: BF108587.D  
 Acq: 29 Aug 2018 6:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 082418-DBRI-F-U-B

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 165   | Resp: | 23264 |
| Ion Ratio | Lower | Upper |       |
| 165       | 100   |       |       |
| 63        | 1.4   | 36.4  | 54.6# |
| 89        | 1.8   | 57.8  | 86.6# |
| 182       | 0.0   | 1.6   | 2.4#  |

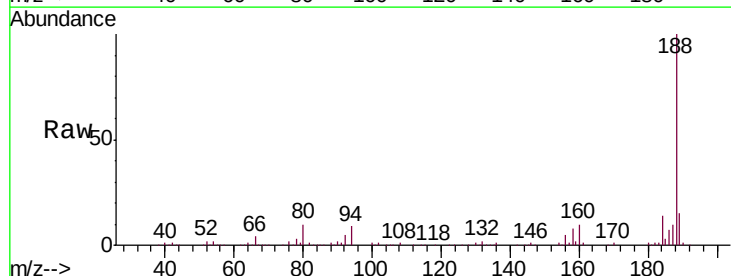


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

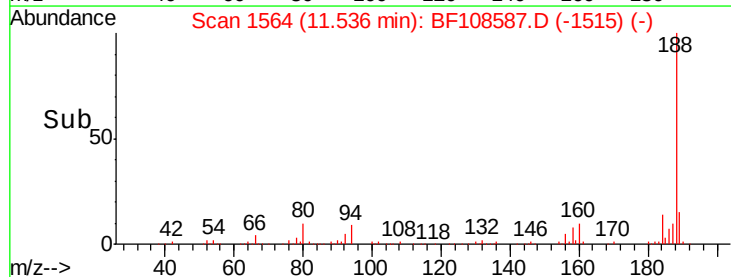
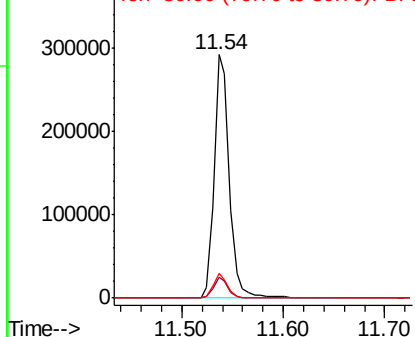


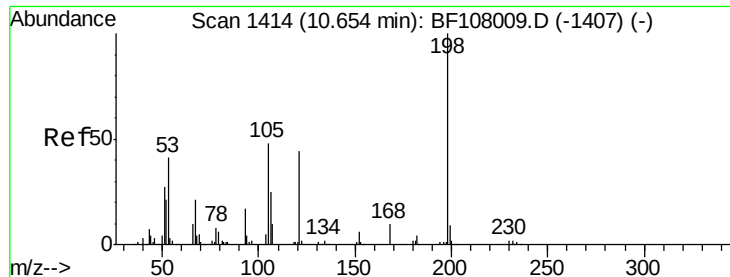
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.54 min Scan# 1564  
 Delta R.T. -0.01 min  
 Lab File: BF108587.D  
 Acq: 29 Aug 2018 6:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 301306 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 8.7   | 8.5   | 12.7   |
| 80        | 10.1  | 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

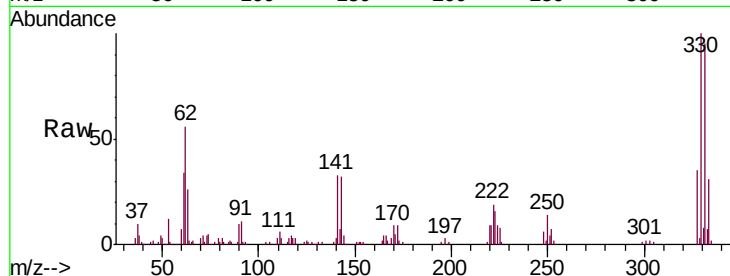




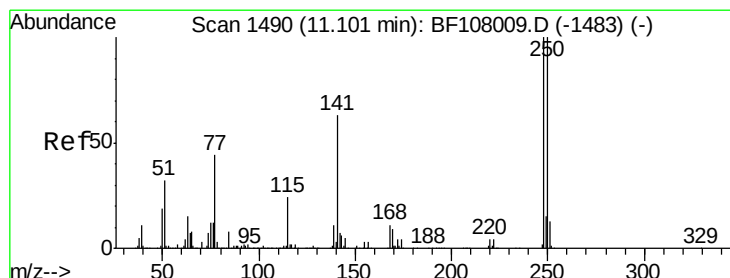
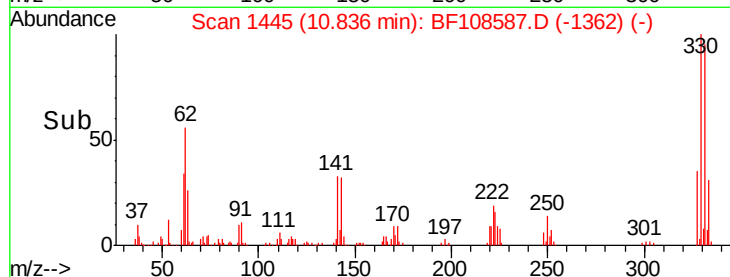
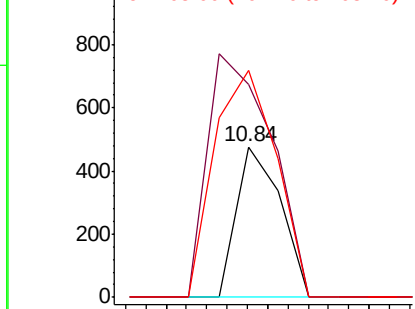
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.585 ng  
 RT: 10.84 min Scan# 1445  
 Delta R.T. 0.19 min  
 Lab File: BF108587.D  
 Acq: 29 Aug 2018 6:05

Instrument :  
 BNA\_F  
 ClientSampleId :  
 082418-DBRI-F-U-B

Tgt Ion:198 Resp: 288  
 Ion Ratio Lower Upper  
 198 100  
 51 141.2 37.7 77.7#  
 105 151.3 36.3 76.3#

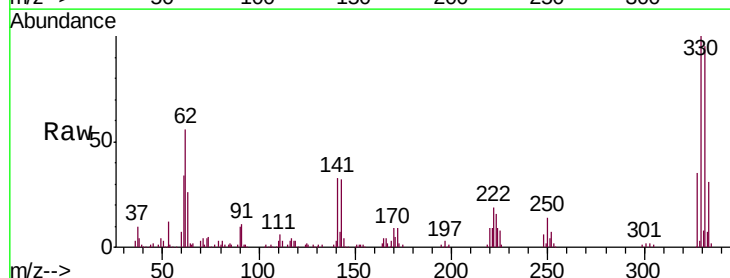


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

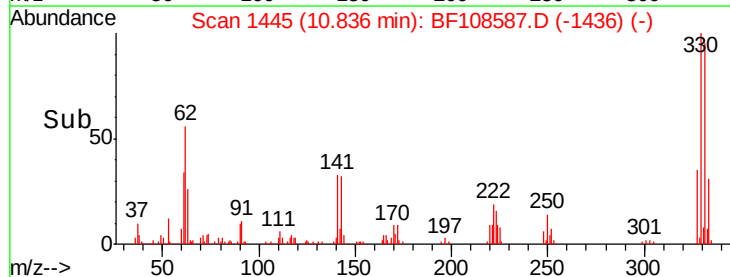
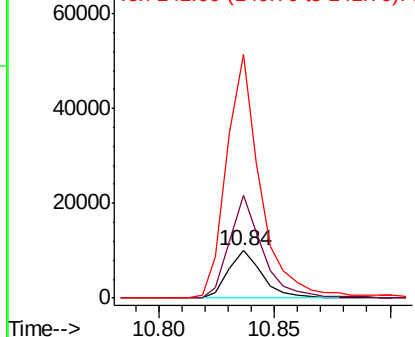


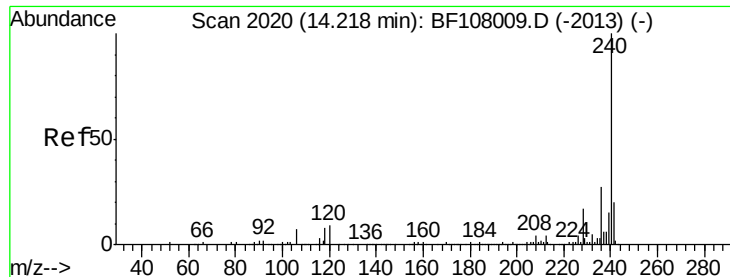
#66  
 4-Bromophenyl-phenylether  
 Concen: 3.138 ng  
 RT: 10.84 min Scan# 1445  
 Delta R.T. -0.25 min  
 Lab File: BF108587.D  
 Acq: 29 Aug 2018 6:05

Tgt Ion:248 Resp: 10275  
 Ion Ratio Lower Upper  
 248 100  
 250 214.3 76.9 115.3#  
 141 510.3 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: 14.19 min Scan# 2015

Delta R.T. -0.01 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

Instrument :

BNA\_F

ClientSampleId :

082418-DBRI-F-U-B

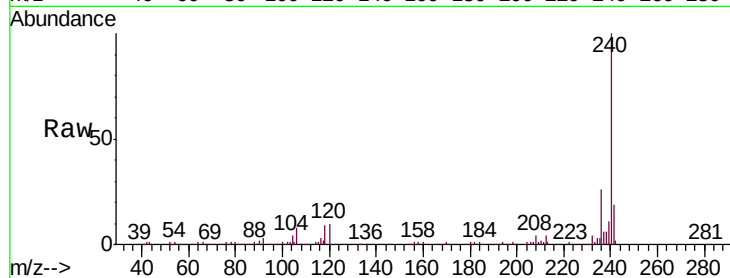
Tgt Ion:240 Resp: 272407

Ion Ratio Lower Upper

240 100

120 10.1 9.5 14.3

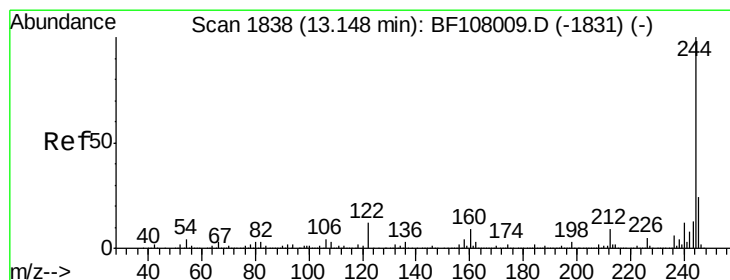
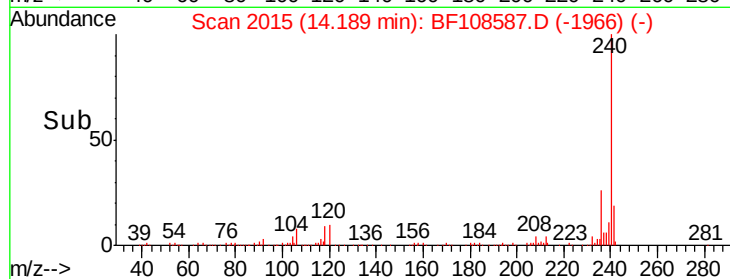
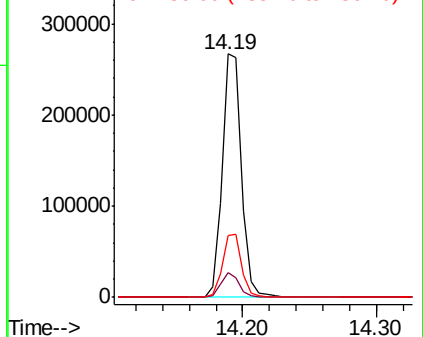
236 25.6 20.7 31.1



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: 89.968 ng

RT: 13.12 min Scan# 1834

Delta R.T. -0.01 min

Lab File: BF108587.D

Acq: 29 Aug 2018 6:05

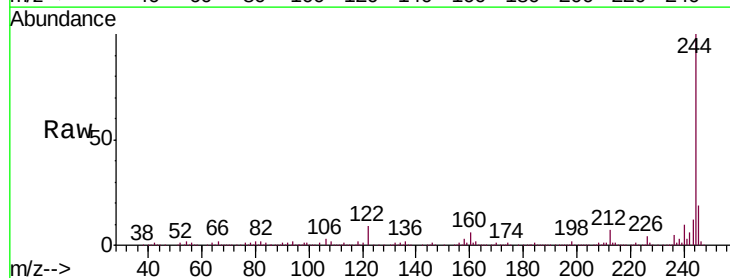
Tgt Ion:244 Resp: 963904

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

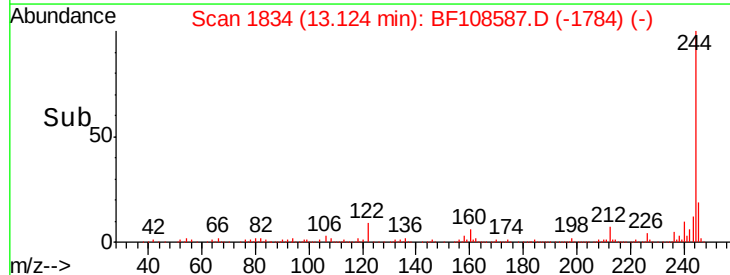
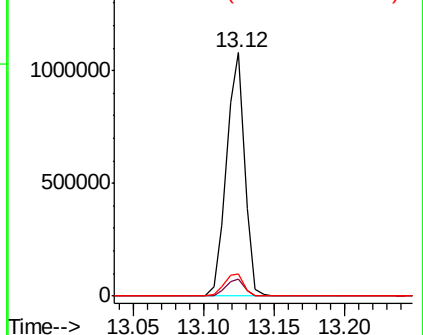
122 8.9 11.0 16.4#

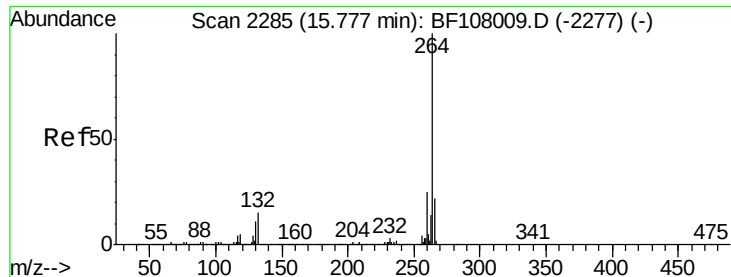


Abundance Ion 244.00 (243.70 to 244.70): E

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: 15.75 min Scan# 2280  
Delta R.T. -0.01 min  
Lab File: BF108587.D  
Acq: 29 Aug 2018 6:05

Instrument :  
BNA\_F  
ClientSampleId :  
082418-DBRI-F-U-B

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.2  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |

