

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100215\  
 Data File : BF081988.D  
 Acq On : 2 Oct 2015 19:34  
 Operator : UM/IZ  
 Sample : G3885-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOILCUTINGS

Quant Time: Oct 05 06:33:24 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Sep 28 18:10:42 2015  
 Response via : Initial Calibration

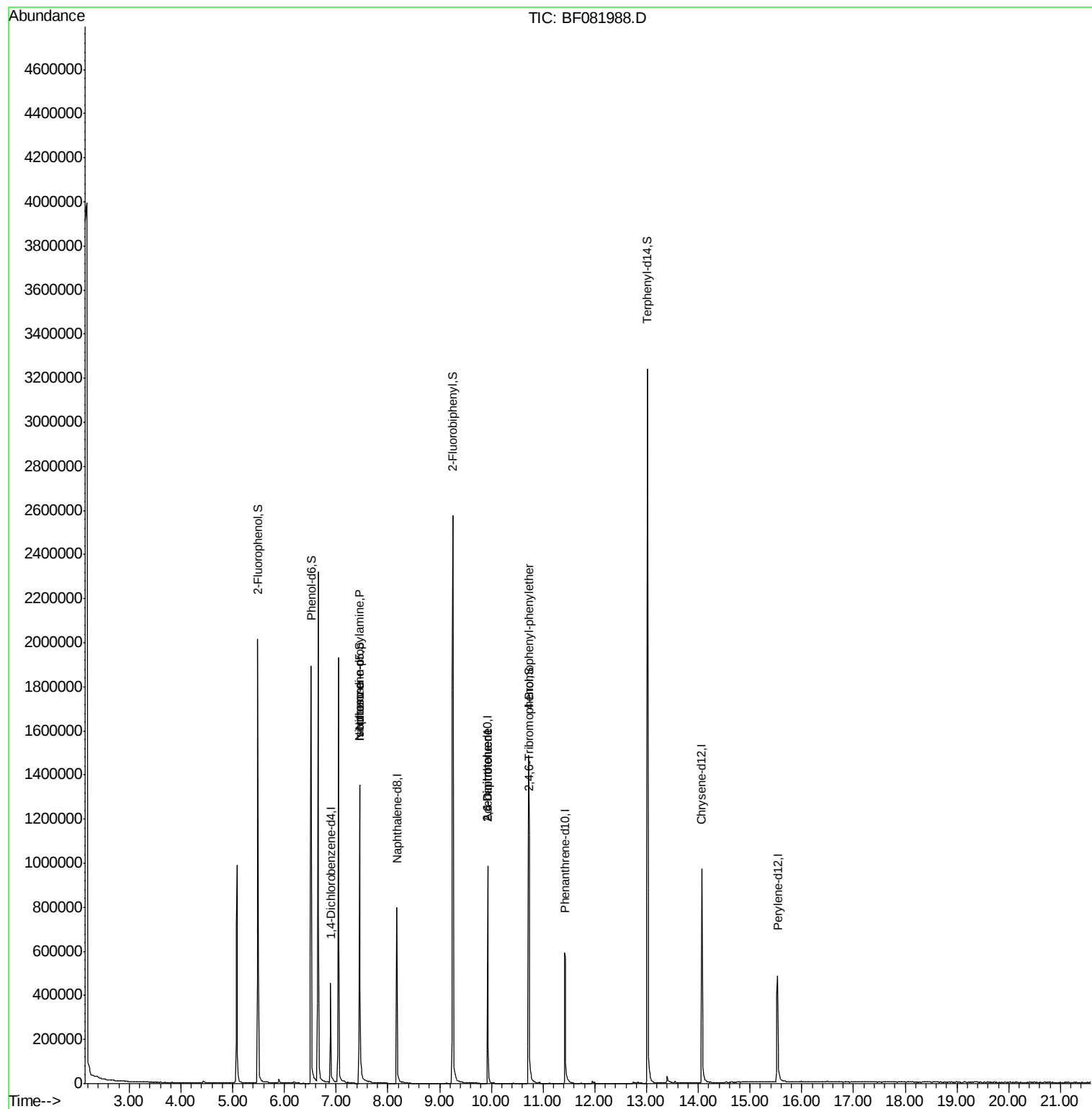
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.89  | 152  | 101237   | 20.00     | ng    | -0.05    |
| 21) Naphthalene-d8             | 8.17  | 136  | 423030   | 20.00     | ng    | -0.05    |
| 38) Acenaphthene-d10           | 9.93  | 164  | 213269   | 20.00     | ng    | -0.05    |
| 63) Phenanthrene-d10           | 11.43 | 188  | 421039   | 20.00     | ng    | -0.03    |
| 75) Chrysene-d12               | 14.07 | 240  | 431261   | 20.00     | ng    | -0.05    |
| 86) Perylene-d12               | 15.53 | 264  | 333271   | 20.00     | ng    | -0.05    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 639574   | 114.68    | ng    | -0.03    |
| 7) Phenol-d6                   | 6.51  | 99   | 769313   | 109.63    | ng    | -0.05    |
| 23) Nitrobenzene-d5            | 7.45  | 82   | 564717   | 88.99     | ng    | -0.05    |
| 41) 2,4,6-Tribromophenol       | 10.73 | 330  | 300255   | 139.01    | ng    | -0.03    |
| 44) 2-Fluorobiphenyl           | 9.26  | 172  | 1244479  | 101.41    | ng    | -0.05    |
| 78) Terphenyl-d14              | 13.02 | 244  | 1256698  | 98.32     | ng    | -0.03    |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.45  | 70   | 70161    | 16.45     | ng    | # 59     |
| 25) Isophorone                 | 7.45  | 82   | 527987   | 41.98     | ng    | # 58     |
| 50) 2,6-Dinitrotoluene         | 9.93  | 165  | 26892    | 8.41      | ng    | # 39     |
| 56) 2,4-Dinitrotoluene         | 9.93  | 165  | 27125    | 6.66      | ng    | # 33     |
| 57) Fluorene                   | 10.72 | 166  | 11079    | Below Cal |       | # 85     |
| 66) 4-Bromophenyl-phenylether  | 10.72 | 248  | 18242    | 4.30      | ng    | # 1      |
| 73) Di-n-butylphthalate        | 11.99 | 149  | 2742     | Below Cal |       | # 91     |

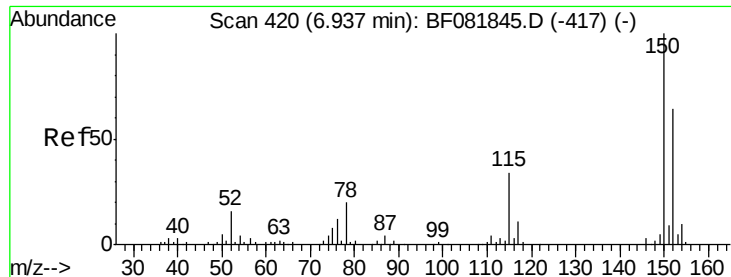
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.89 min Scan# 416

Delta R.T. -0.05 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

Instrument :

BNA\_F

ClientSampleId :

SOILCUTINGS

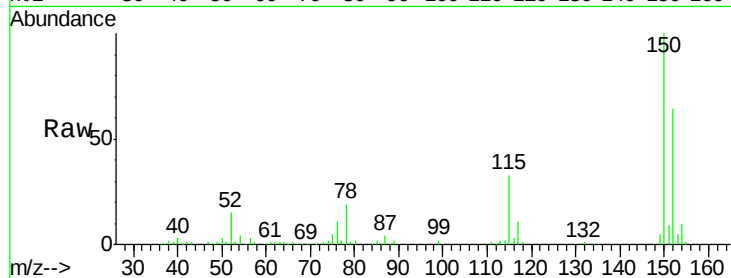
Tgt Ion:152 Resp: 101237

Ion Ratio Lower Upper

152 100

150 155.2 124.7 187.1

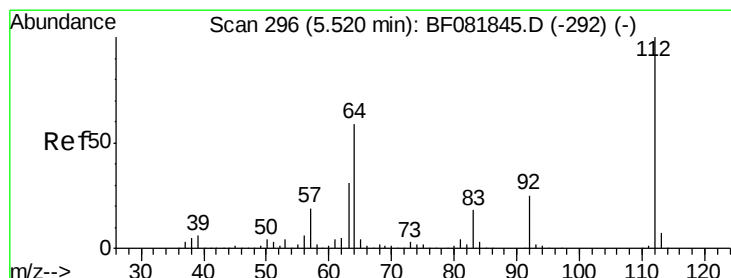
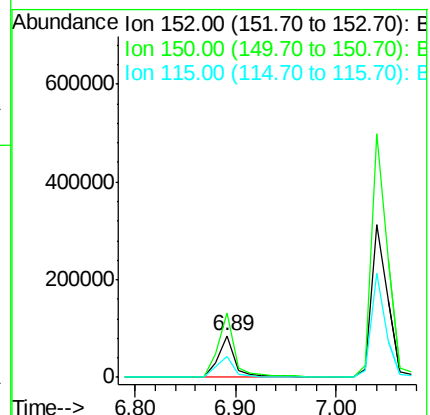
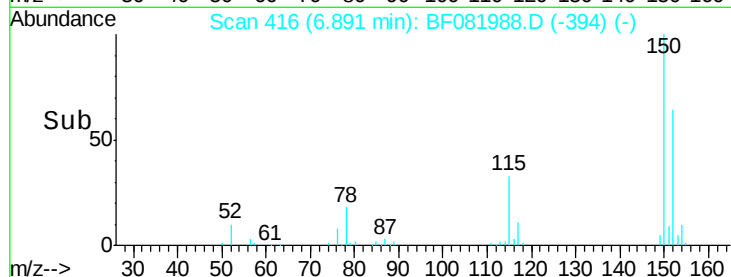
115 51.9 39.0 58.4



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: 114.68 ng

RT: 5.49 min Scan# 293

Delta R.T. -0.03 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

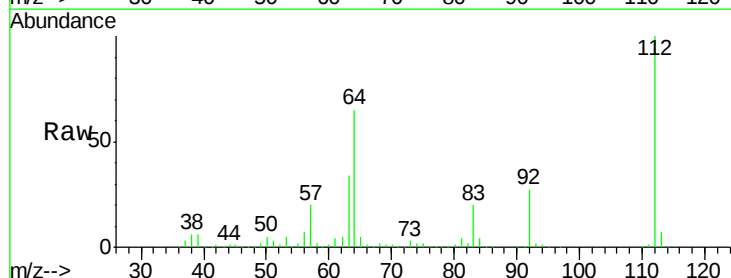
Tgt Ion:112 Resp: 639574

Ion Ratio Lower Upper

112 100

64 64.9 39.7 59.5#

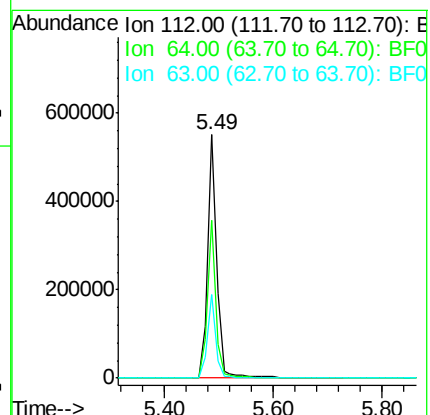
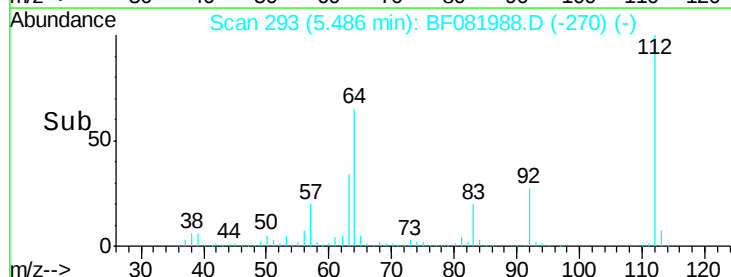
63 34.4 17.4 26.0#

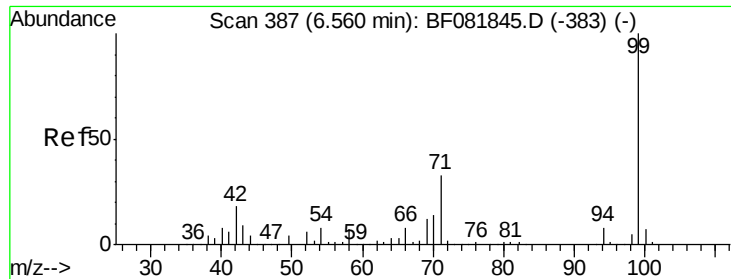


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0

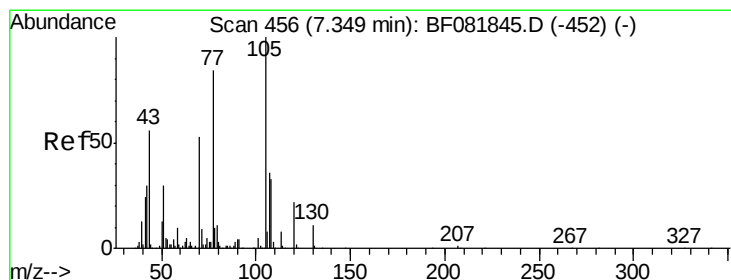
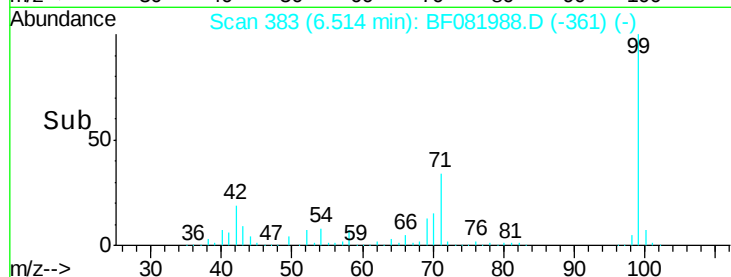
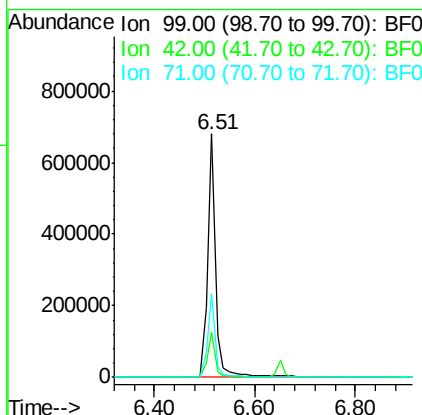
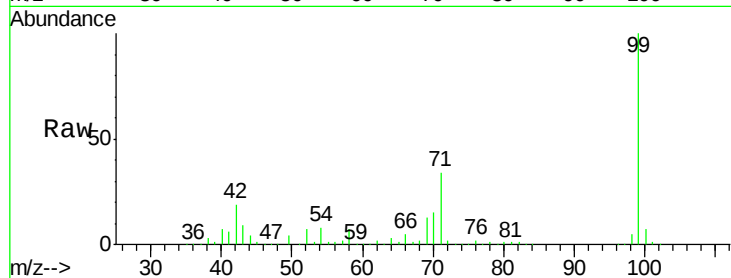




#7  
 Phenol-d6  
 Concen: 109.63 ng  
 RT: 6.51 min Scan# 383  
 Delta R.T. -0.05 min  
 Lab File: BF081988.D  
 Acq: 2 Oct 2015 19:34

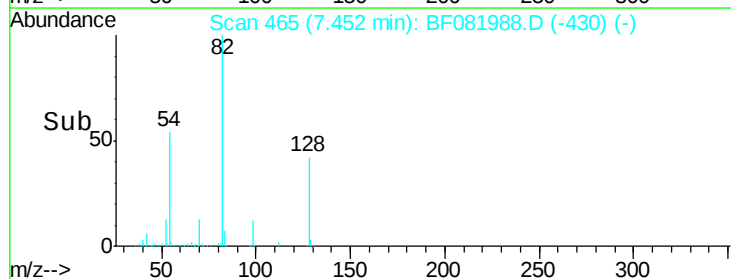
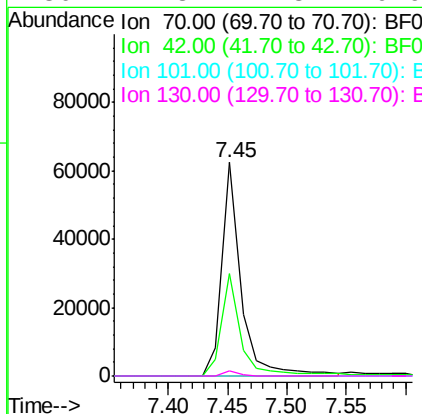
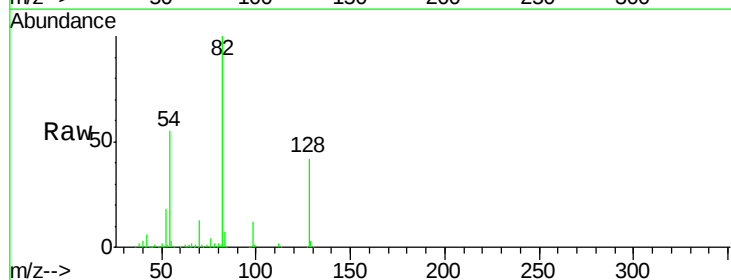
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOILCUTINGS

Tgt Ion: 99 Resp: 769313  
 Ion Ratio Lower Upper  
 99 100  
 42 18.5 13.7 20.5  
 71 34.5 14.2 21.2#



#19  
 n-Nitroso-di-n-propylamine  
 Concen: 16.45 ng  
 RT: 7.45 min Scan# 465  
 Delta R.T. 0.10 min  
 Lab File: BF081988.D  
 Acq: 2 Oct 2015 19:34

Tgt Ion: 70 Resp: 70161  
 Ion Ratio Lower Upper  
 70 100  
 42 48.2 63.8 95.6#  
 101 0.0 9.2 13.8#  
 130 2.3 27.3 40.9#

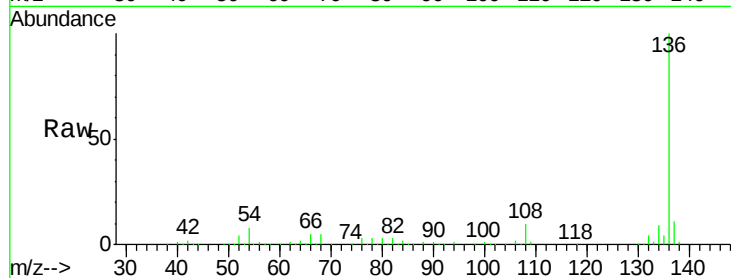




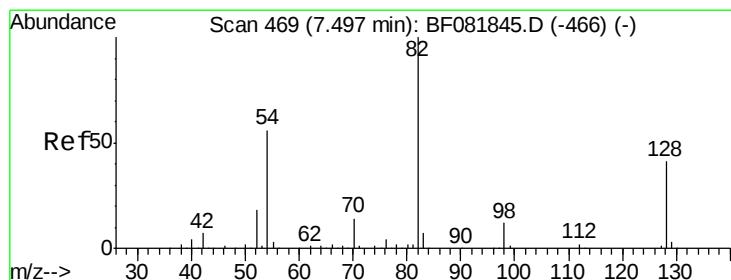
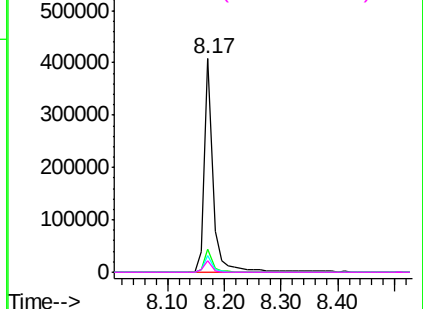
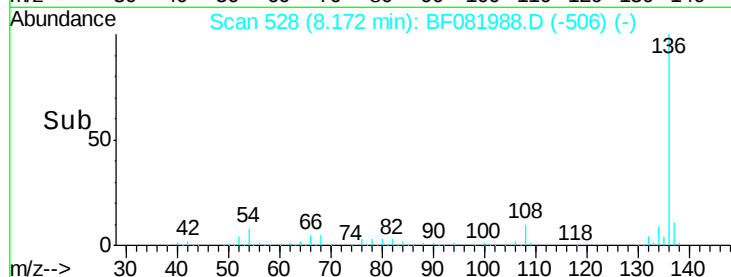
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.17 min Scan# 528  
Delta R.T. -0.05 min  
Lab File: BF081988.D  
Acq: 2 Oct 2015 19:34

Instrument :  
BNA\_F  
ClientSampleId :  
SOILCUTINGS

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 423030 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 9.0   | 13.6   |
| 54       | 7.9   | 8.2   | 12.2#  |
| 68       | 5.4   | 5.8   | 8.6#   |

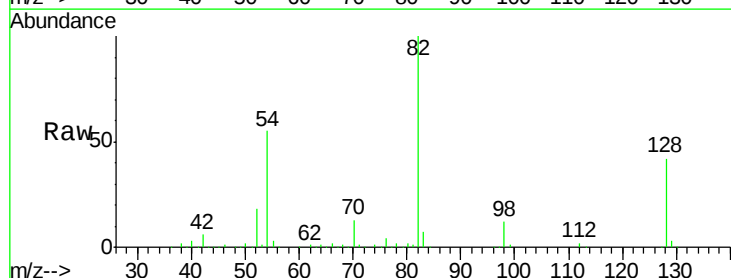


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

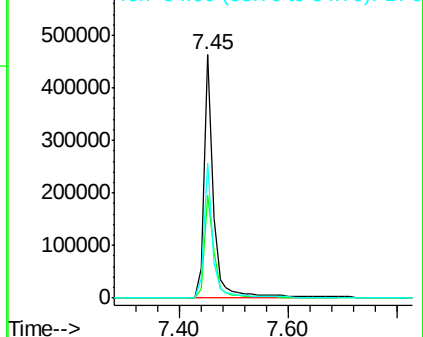
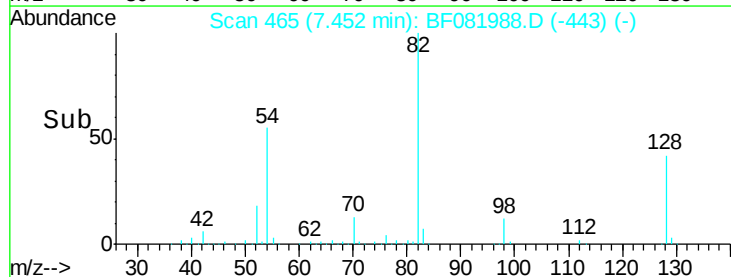


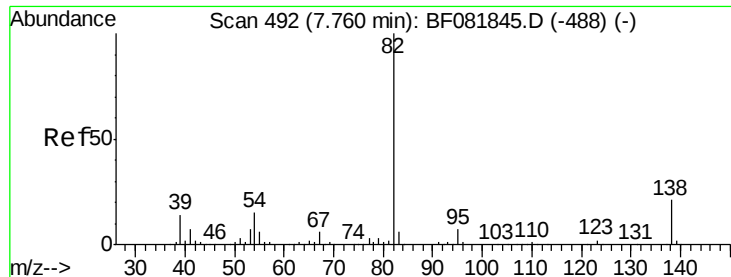
#23  
Nitrobenzene-d5  
Concen: 88.99 ng  
RT: 7.45 min Scan# 465  
Delta R.T. -0.05 min  
Lab File: BF081988.D  
Acq: 2 Oct 2015 19:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 564717 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 42.3  | 51.0  | 76.6#  |
| 54       | 55.1  | 47.5  | 71.3   |



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: 41.98 ng

RT: 7.45 min Scan# 465

Delta R.T. -0.31 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

Instrument :

BNA\_F

ClientSampleId :

SOILCUTINGS

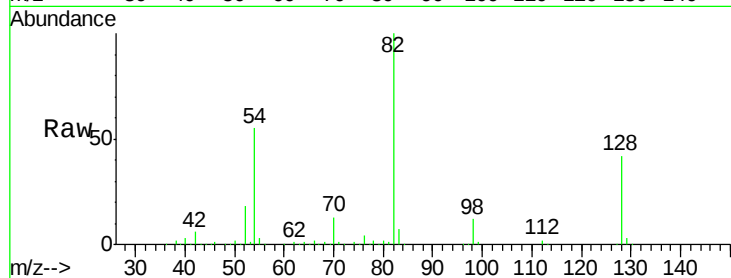
Tgt Ion: 82 Resp: 527987

Ion Ratio Lower Upper

82 100

95 0.0 4.0 6.0#

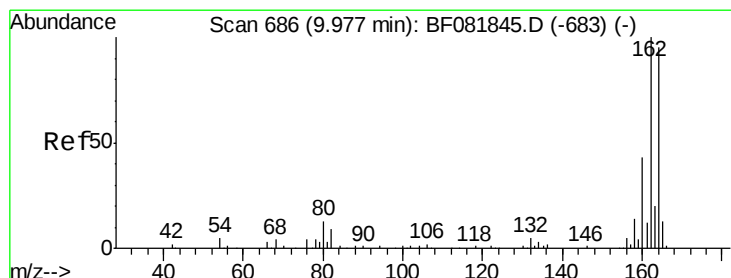
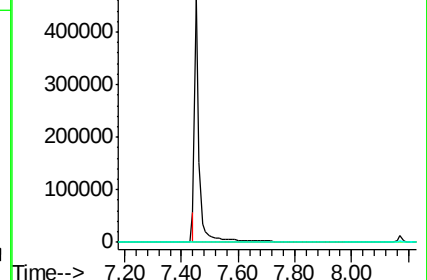
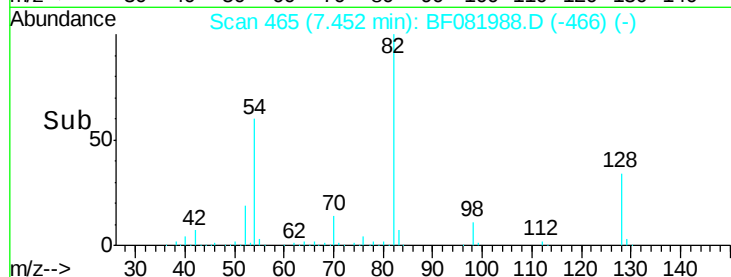
138 0.0 18.3 27.5#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.93 min Scan# 682

Delta R.T. -0.05 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

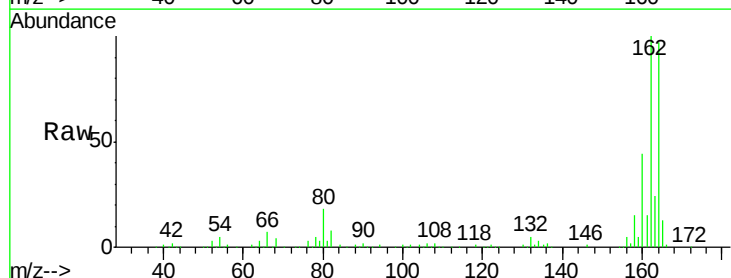
Tgt Ion: 164 Resp: 213269

Ion Ratio Lower Upper

164 100

162 103.1 75.2 112.8

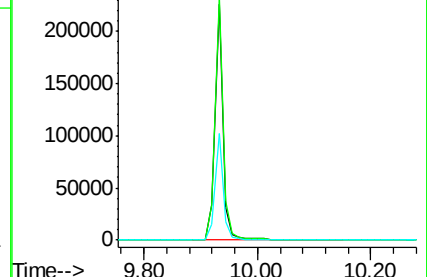
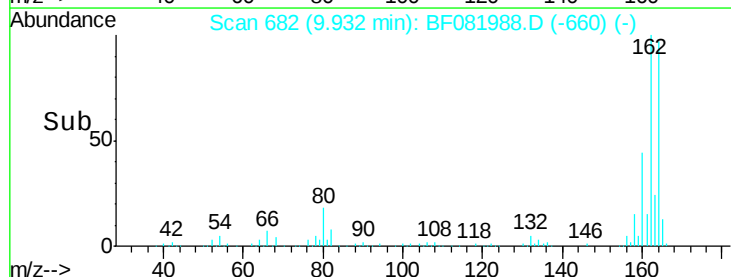
160 45.0 31.5 47.3

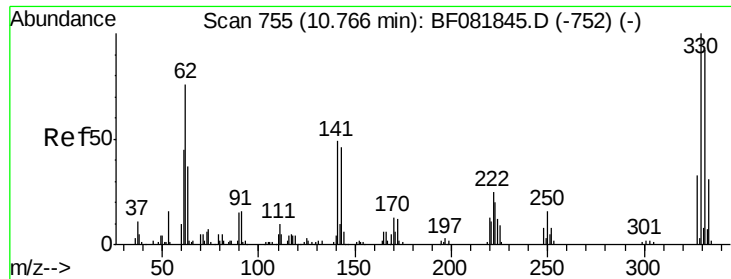


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

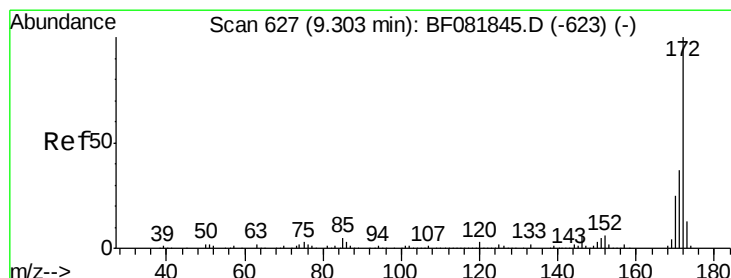
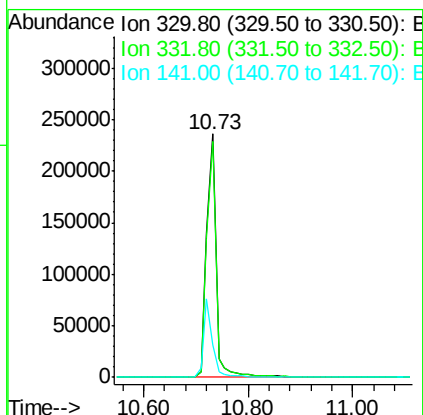
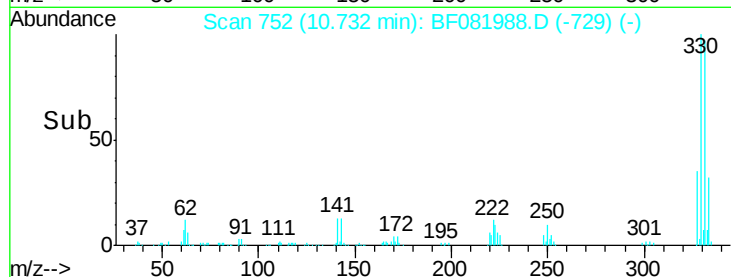
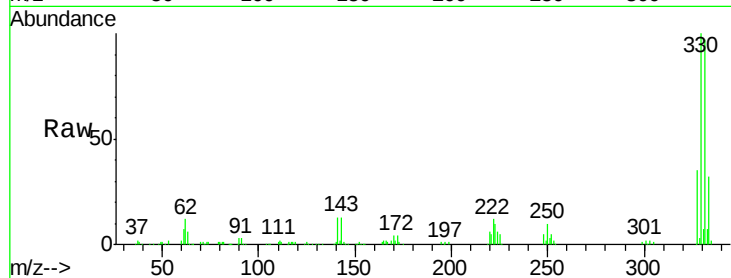




#41  
 2,4,6-Tribromophenol  
 Concen: 139.01 ng  
 RT: 10.73 min Scan# 752  
 Delta R.T. -0.03 min  
 Lab File: BF081988.D  
 Acq: 2 Oct 2015 19:34

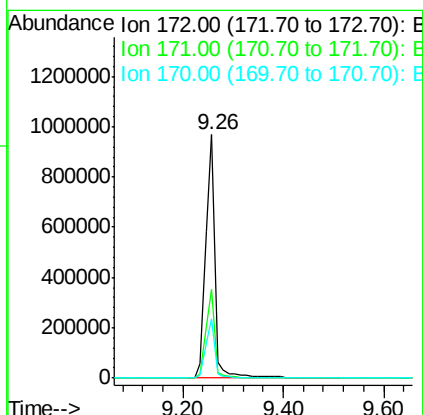
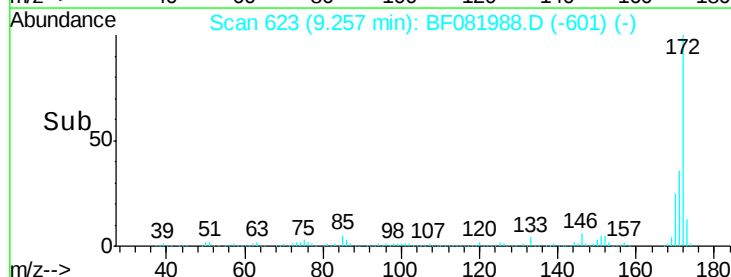
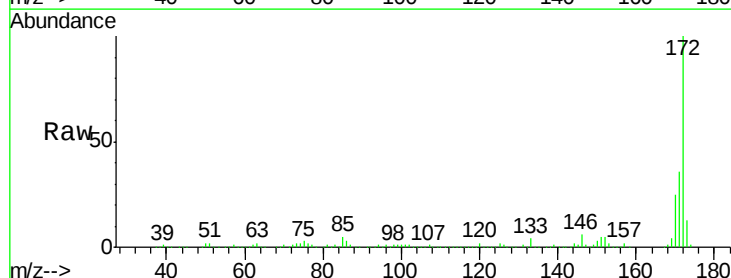
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOILCUTINGS

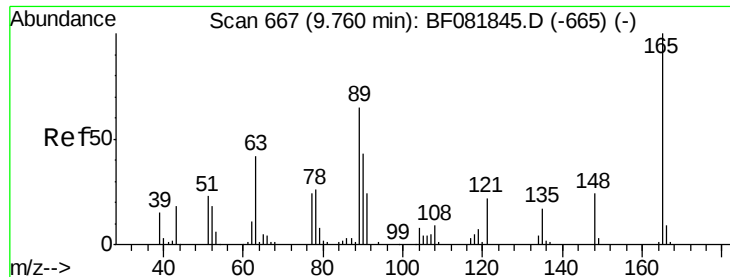
Tgt Ion:330 Resp: 300255  
 Ion Ratio Lower Upper  
 330 100  
 332 96.9 76.6 114.8  
 141 30.3 29.7 44.5



#44  
 2-Fluorobiphenyl  
 Concen: 101.41 ng  
 RT: 9.26 min Scan# 623  
 Delta R.T. -0.05 min  
 Lab File: BF081988.D  
 Acq: 2 Oct 2015 19:34

Tgt Ion:172 Resp: 1244479  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 26.1 39.1  
 170 24.6 17.4 26.2

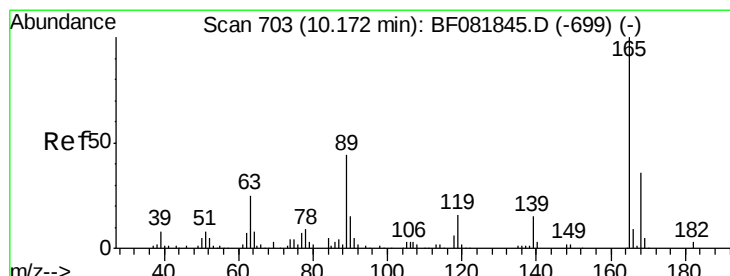
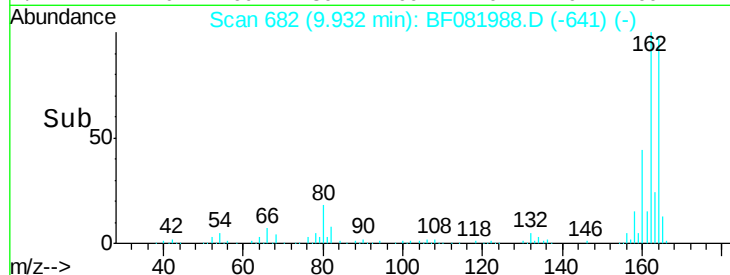
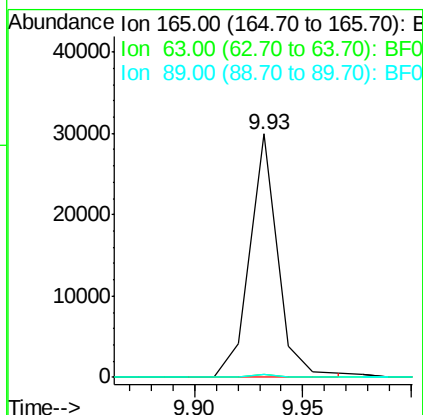
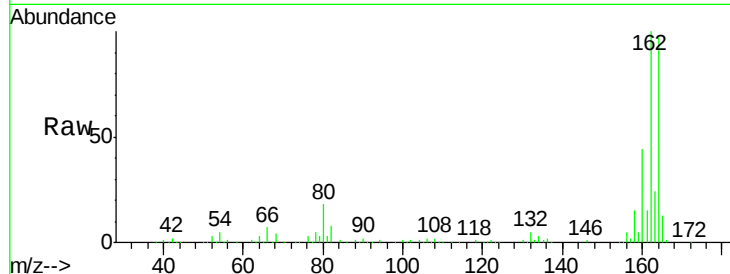




#50  
 2,6-Dinitrotoluene  
 Concen: 8.41 ng  
 RT: 9.93 min Scan# 682  
 Delta R.T. 0.17 min  
 Lab File: BF081988.D  
 Acq: 2 Oct 2015 19:34

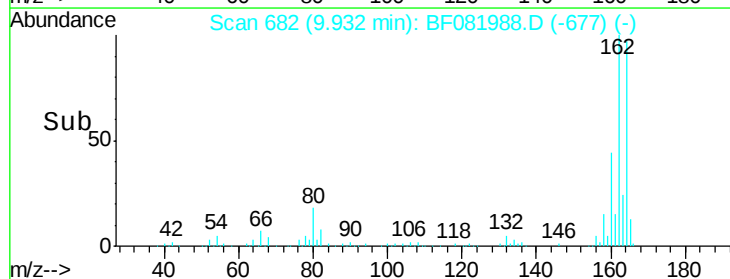
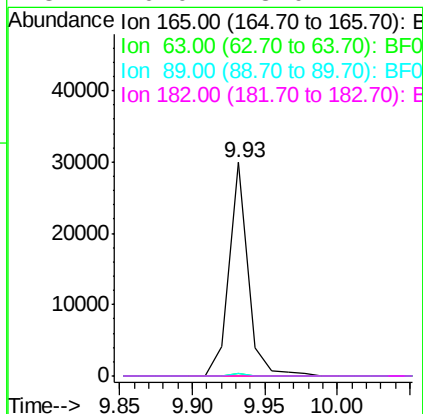
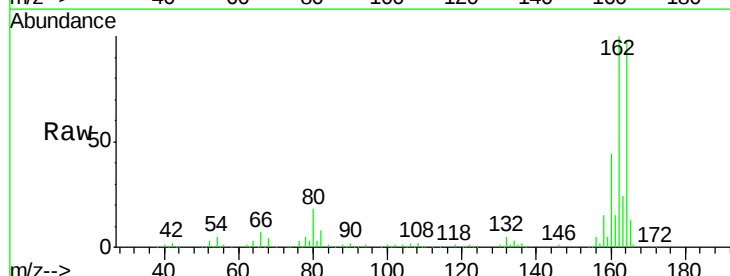
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SOILCUTINGS

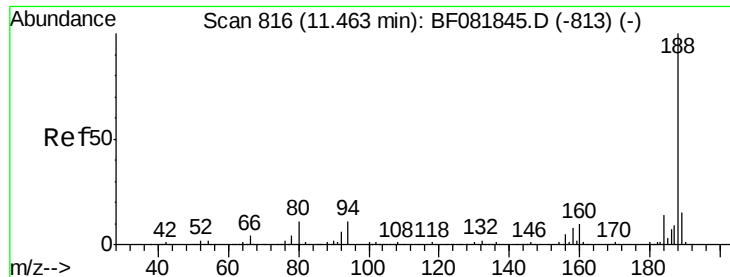
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 32.3  | 48.5# |
| 89      | 1.3   | 28.6  | 43.0# |



#56  
 2,4-Dinitrotoluene  
 Concen: 6.66 ng  
 RT: 9.93 min Scan# 682  
 Delta R.T. -0.24 min  
 Lab File: BF081988.D  
 Acq: 2 Oct 2015 19:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 29.8  | 44.6# |
| 89      | 1.3   | 44.5  | 66.7# |
| 182     | 0.0   | 3.0   | 4.4#  |

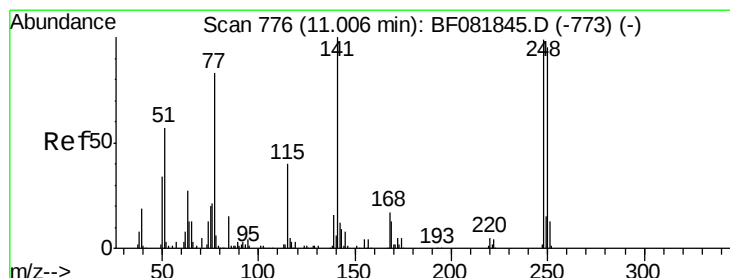
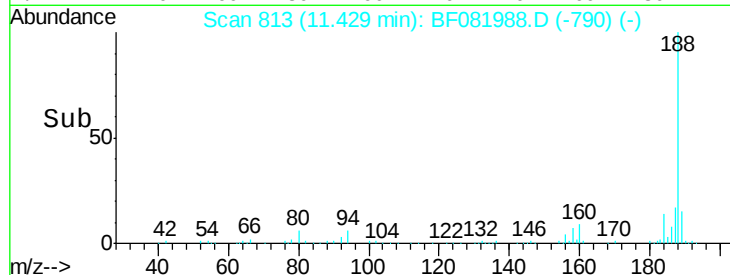
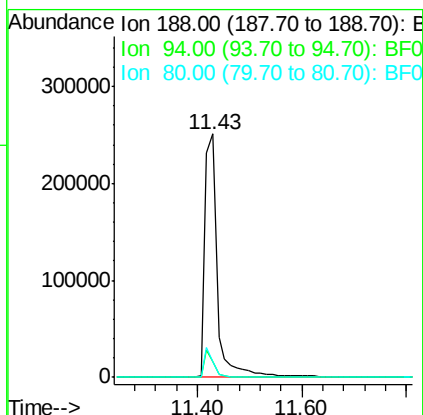
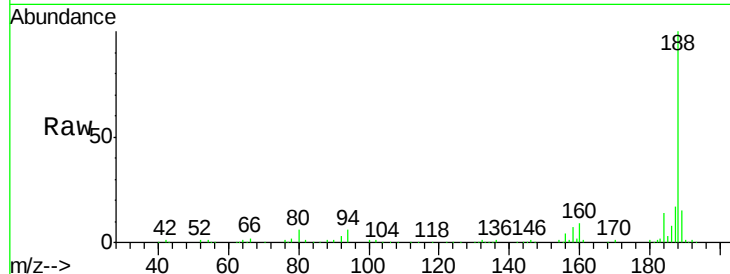




#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.43 min Scan# 813  
Delta R.T. -0.03 min  
Lab File: BF081988.D  
Acq: 2 Oct 2015 19:34

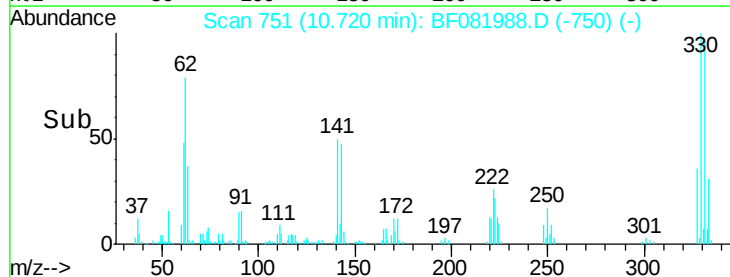
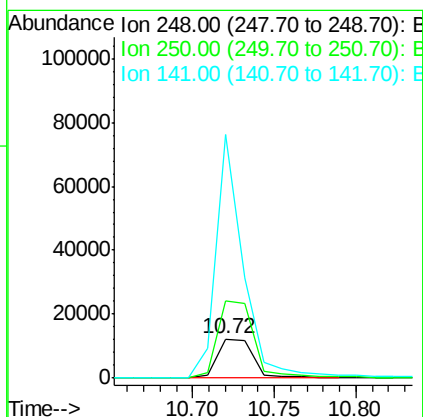
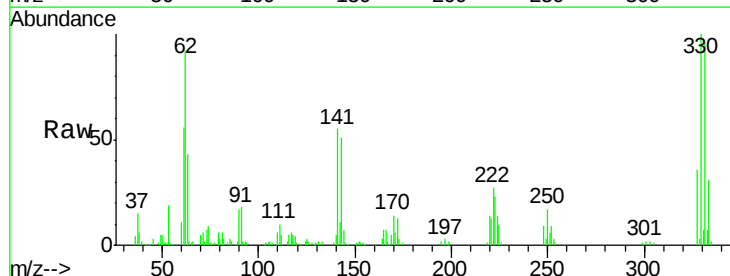
Instrument :  
BNA\_F  
ClientSampleId :  
SOILCUTINGS

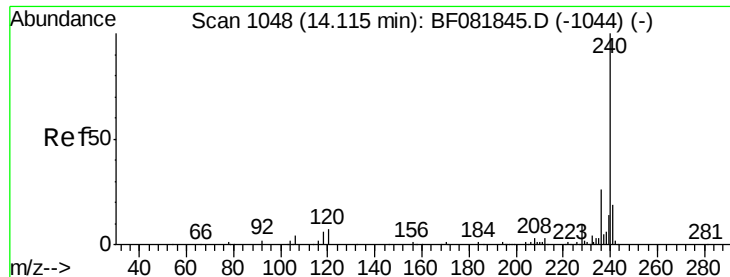
Tgt Ion:188 Resp: 421039  
Ion Ratio Lower Upper  
188 100  
94 6.4 11.1 16.7#  
80 6.3 11.0 16.4#



#66  
4-Bromophenyl-phenylether  
Concen: 4.30 ng  
RT: 10.72 min Scan# 751  
Delta R.T. -0.29 min  
Lab File: BF081988.D  
Acq: 2 Oct 2015 19:34

Tgt Ion:248 Resp: 18242  
Ion Ratio Lower Upper  
248 100  
250 199.1 78.5 117.7#  
141 623.2 59.0 88.6#





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.07 min Scan# 1044

Delta R.T. -0.05 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

Instrument :

BNA\_F

ClientSampleId :

SOILCUTINGS

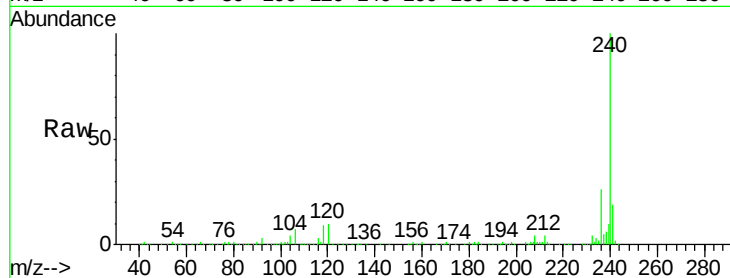
Tgt Ion:240 Resp: 431261

Ion Ratio Lower Upper

240 100

120 10.0 16.2 24.2#

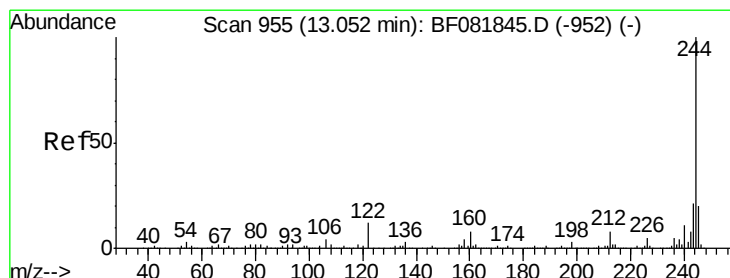
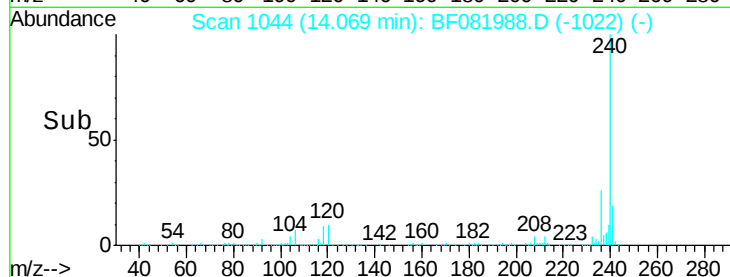
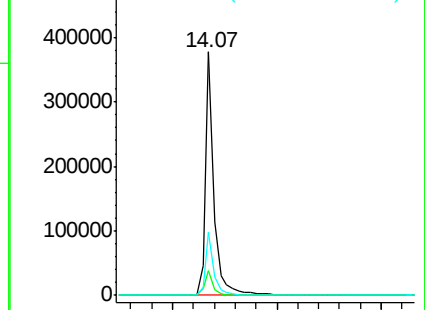
236 26.0 18.4 27.6



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: 98.32 ng

RT: 13.02 min Scan# 952

Delta R.T. -0.03 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

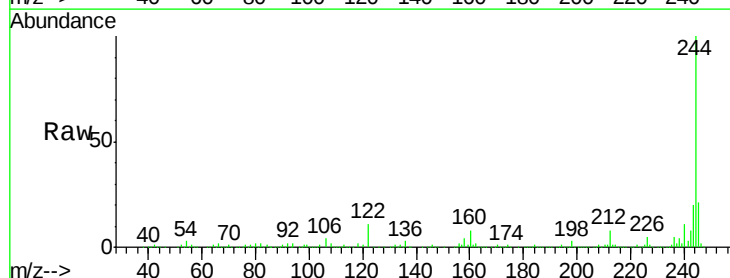
Tgt Ion:244 Resp: 1256698

Ion Ratio Lower Upper

244 100

212 7.7 4.3 6.5#

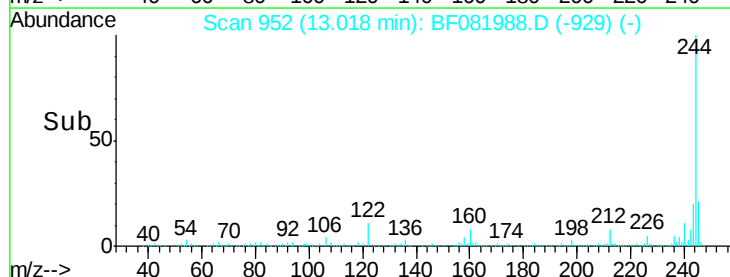
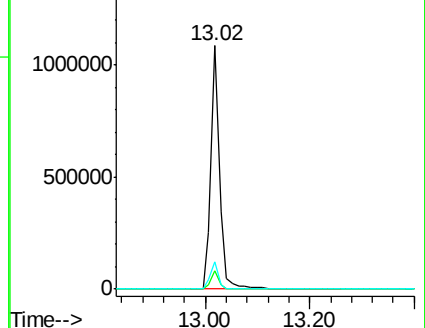
122 11.3 17.4 26.2#

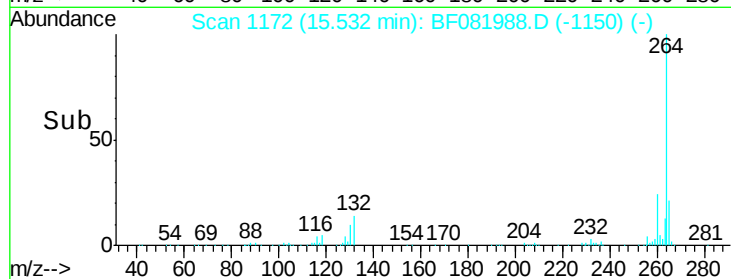
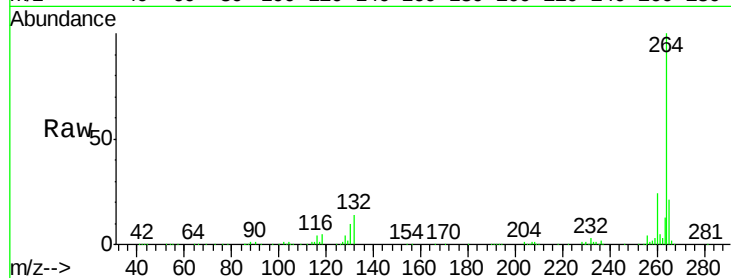
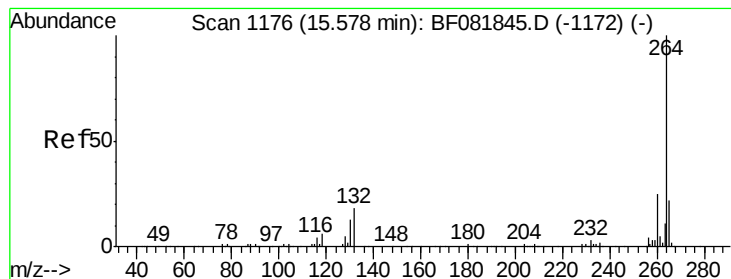


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.53 min Scan# 1172

Delta R.T. -0.05 min

Lab File: BF081988.D

Acq: 2 Oct 2015 19:34

Instrument :

BNA\_F

ClientSampleId :

SOILCUTINGS

Tgt Ion:264 Resp: 333271

Ion Ratio Lower Upper

264 100

260 24.1 16.7 25.1

265 20.9 17.2 25.8

