

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG010515\  
 Data File : BG015848.D  
 Acq On : 5 Jan 2015 18:27  
 Operator : TP/IZ  
 Sample : G1001-03  
 Misc : LOD-SOIL-2PPM  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2015-01

Quant Time: Jan 06 09:25:15 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG010515.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jan 06 08:46:19 2015  
 Response via : Initial Calibration

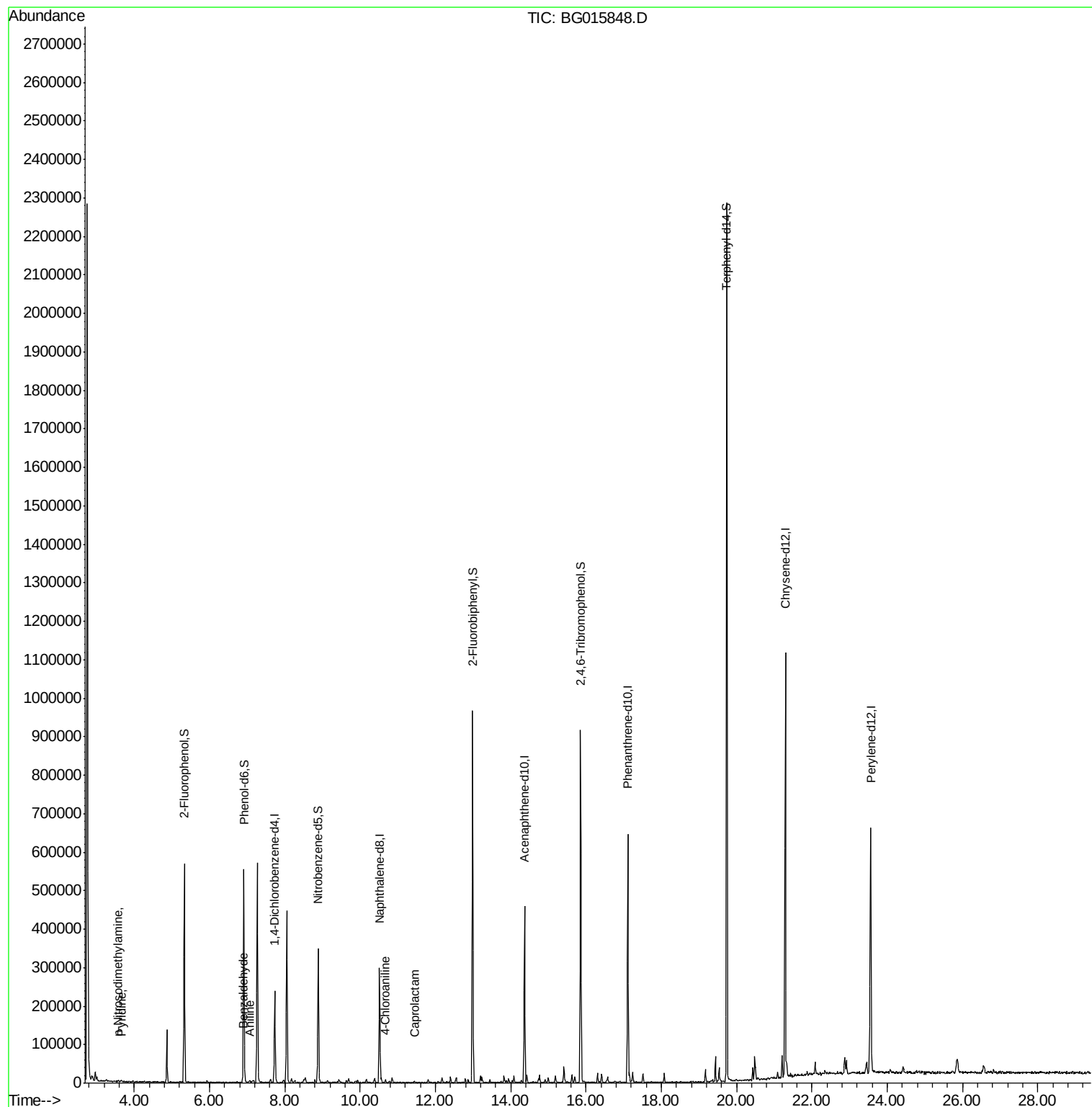
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.73  | 152  | 52524    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.51 | 136  | 194877   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 14.37 | 164  | 143061   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 17.11 | 188  | 352912   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 21.30 | 240  | 529883   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 23.56 | 264  | 511923   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 206621   | 33.83 | ng    | 0.00     |
| 7) Phenol-d6                | 6.91  | 99   | 281025   | 33.04 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.89  | 82   | 201913   | 20.33 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 15.86 | 330  | 174329   | 32.06 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 12.99 | 172  | 426650   | 21.30 | ng    | 0.00     |
| 78) Terphenyl-d14           | 19.74 | 244  | 997834   | 21.04 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       |          |
| 3) Pyridine                 | 3.65  | 79   | 2327     | 0.61  | ng    | # 83     |
| 4) n-Nitrosodimethylamine   | 3.57  | 42   | 1460     | 0.88  | ng    | # 37     |
| 6) Aniline                  | 7.06  | 93   | 3322     | 0.58  | ng    | # 82     |
| 9) Benzaldehyde             | 6.88  | 77   | 2506     | 0.87  | ng    | # 85     |
| 33) 4-Chloroaniline         | 10.67 | 127  | 2590     | 0.62  | ng    | # 71     |
| 35) Caprolactam             | 11.44 | 113  | 1333     | 0.94  | ng    | # 51     |

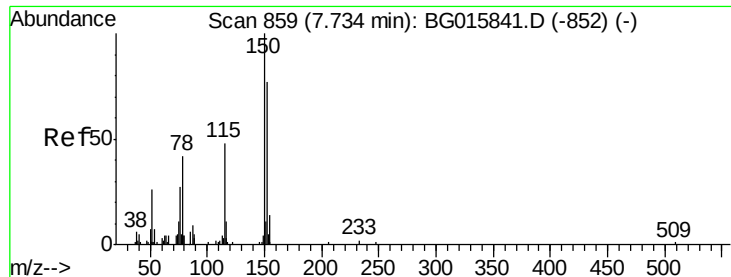
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 06 08:46:19 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.73 min Scan# 858

Delta R.T. -0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

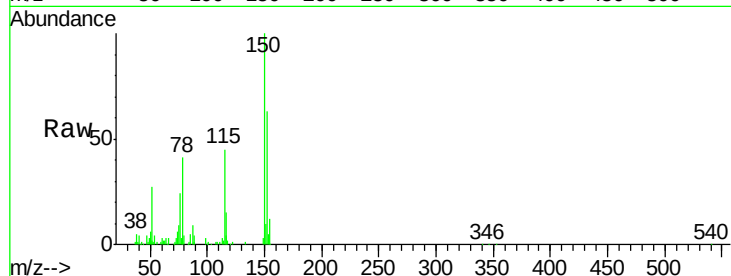
Tgt Ion:152 Resp: 52524

Ion Ratio Lower Upper

152 100

150 158.5 120.5 180.7

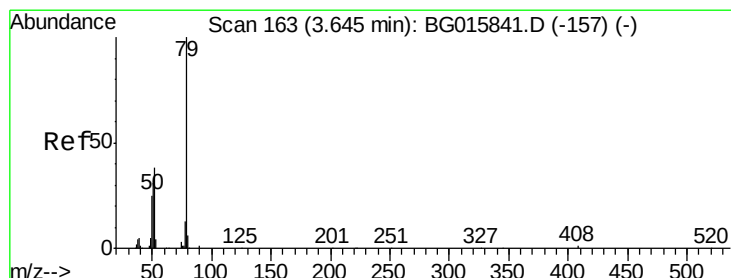
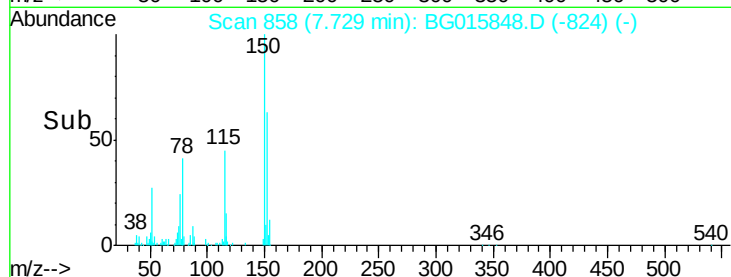
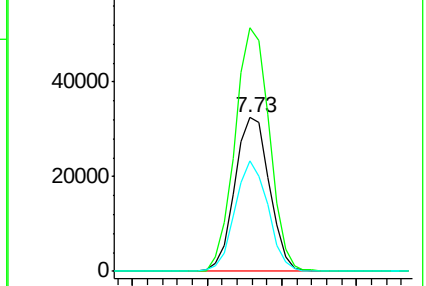
115 71.8 54.0 81.0



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



#3

Pyridine

Concen: 0.61 ng

RT: 3.65 min Scan# 163

Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

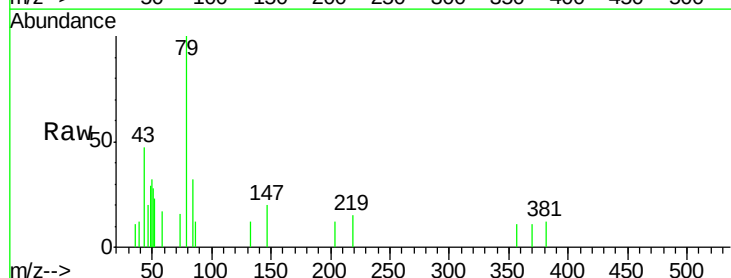
Tgt Ion: 79 Resp: 2327

Ion Ratio Lower Upper

79 100

52 23.2 30.6 46.0#

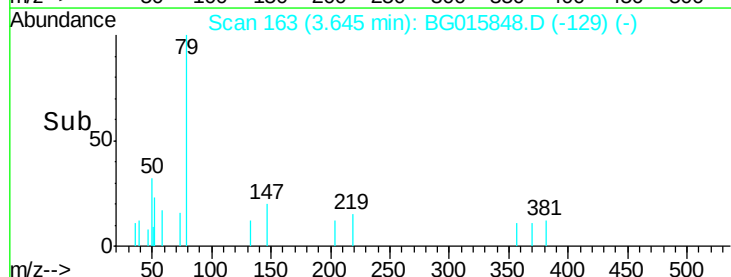
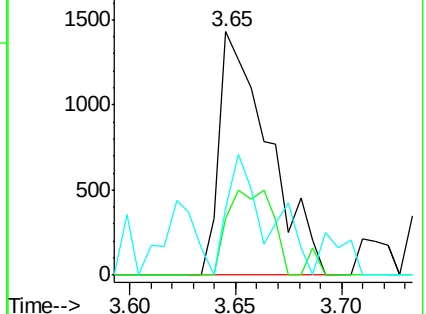
51 27.6 24.9 37.3

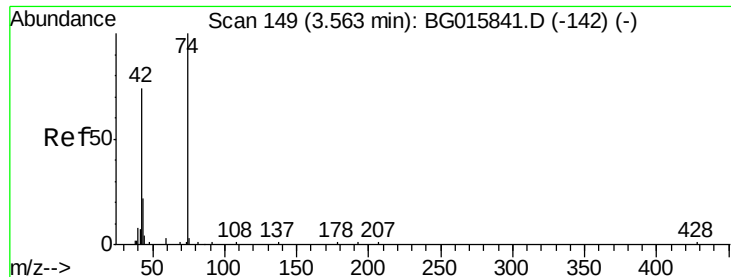


Abundance Ion 79.00 (78.70 to 79.70): BGC

Ion 52.00 (51.70 to 52.70): BGC

Ion 51.00 (50.70 to 51.70): BGC





#4

n-Nitrosodimethylamine

Concen: 0.88 ng

RT: 3.57 min Scan# 151

Delta R.T. 0.01 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

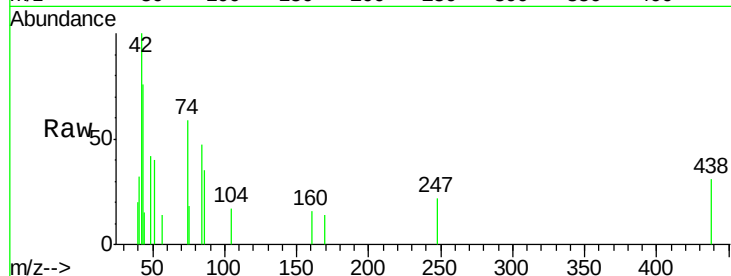
Tgt Ion: 42 Resp: 1460

Ion Ratio Lower Upper

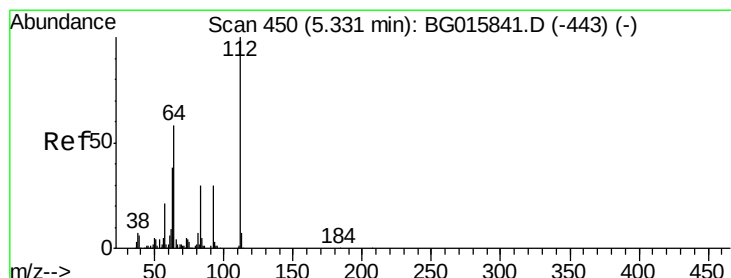
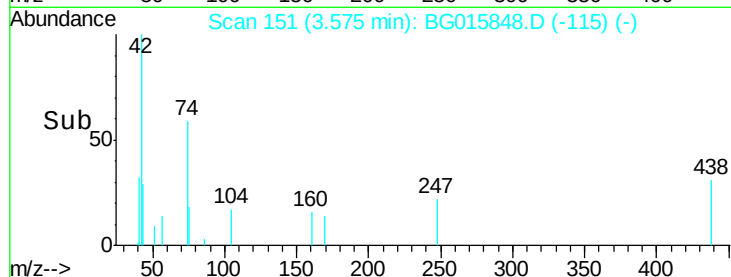
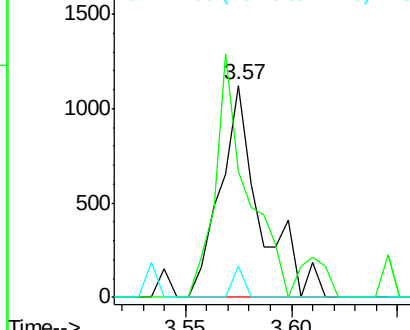
42 100

74 59.2 108.8 163.2#

44 15.0 4.4 6.6#



Abundance Ion 42.00 (41.70 to 42.70): BGC  
Ion 74.00 (73.70 to 74.70): BGC  
Ion 44.00 (43.70 to 44.70): BGC



#5

2-Fluorophenol

Concen: 33.83 ng

RT: 5.33 min Scan# 450

Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

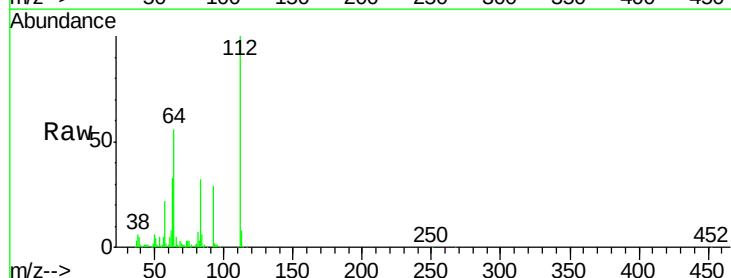
Tgt Ion: 112 Resp: 206621

Ion Ratio Lower Upper

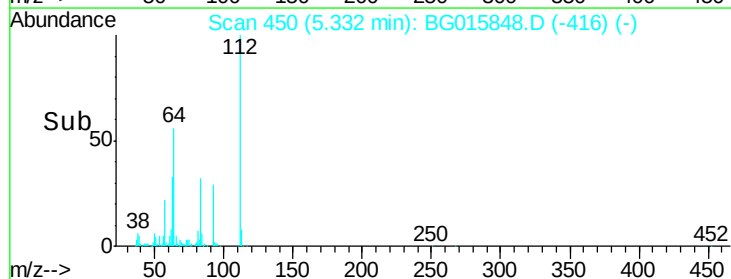
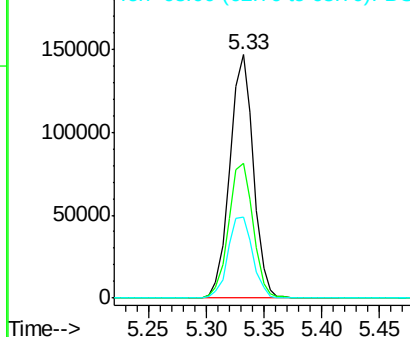
112 100

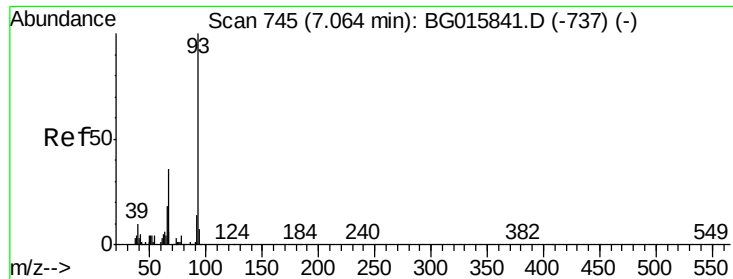
64 55.6 46.8 70.2

63 33.2 30.6 45.8



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





#6

Aniline

Concen: 0.58 ng

RT: 7.06 min Scan# 744

Delta R.T. -0.01 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

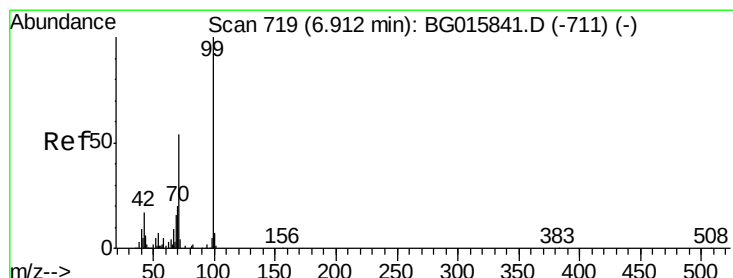
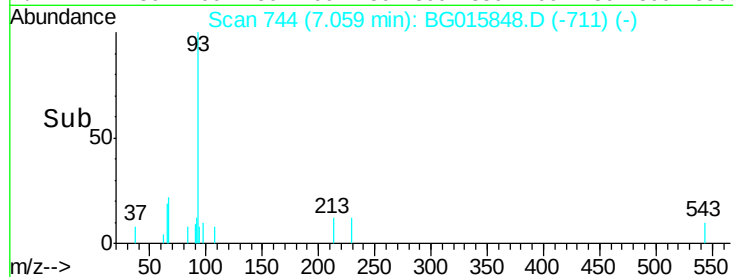
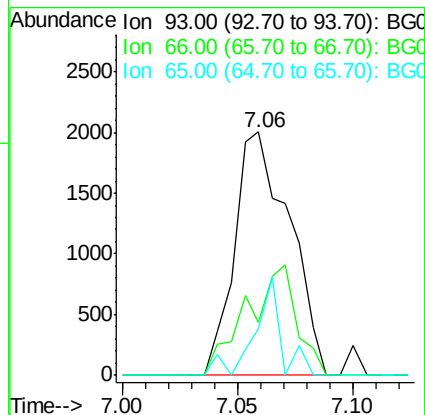
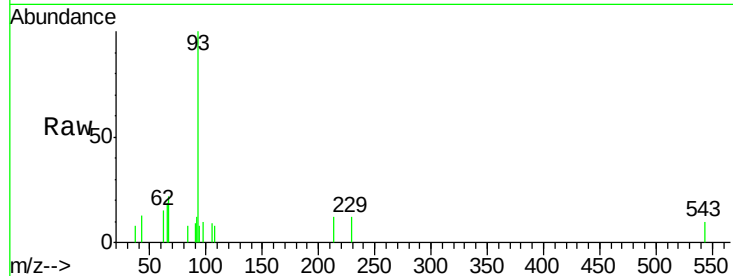
Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 3322  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 66       | 20.3  | 28.7  | 43.1# |
| 65       | 17.8  | 14.7  | 22.1  |



#7

Phenol-d6

Concen: 33.04 ng

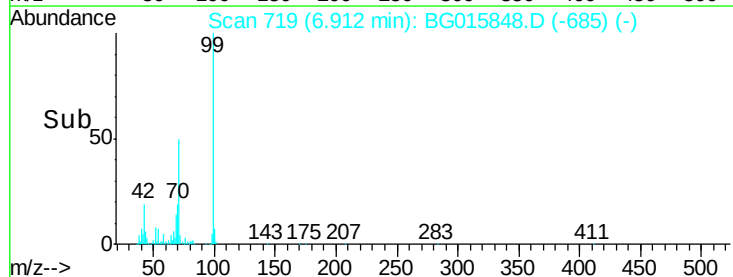
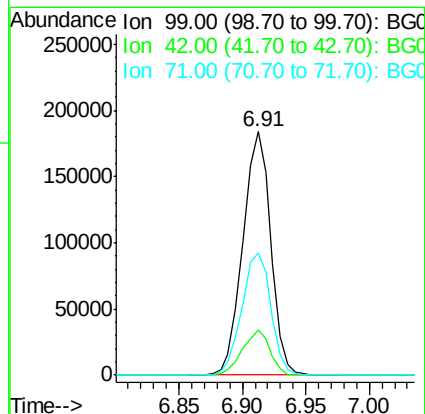
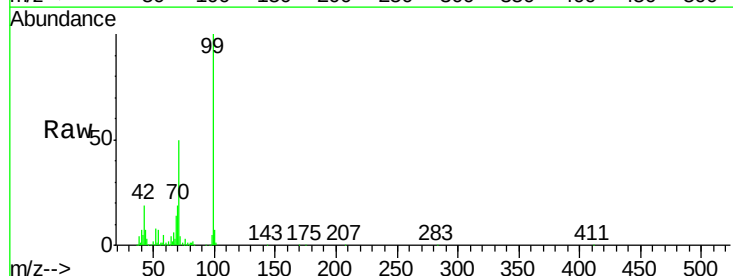
RT: 6.91 min Scan# 719

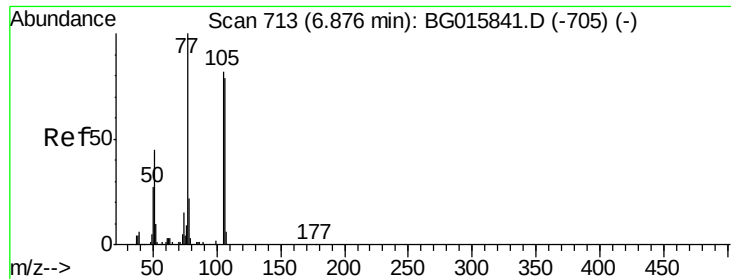
Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 281025 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 18.6  | 13.8  | 20.8   |
| 71       | 50.3  | 42.8  | 64.2   |





#9

Benzaldehyde

Concen: 0.87 ng

RT: 6.88 min Scan# 713

Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

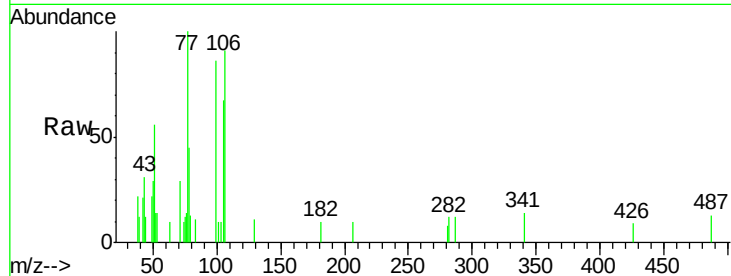
Tgt Ion: 77 Resp: 2506

Ion Ratio Lower Upper

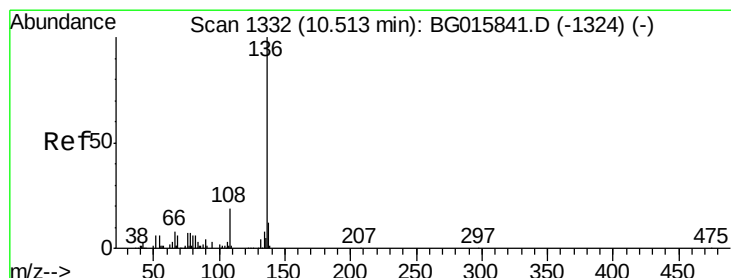
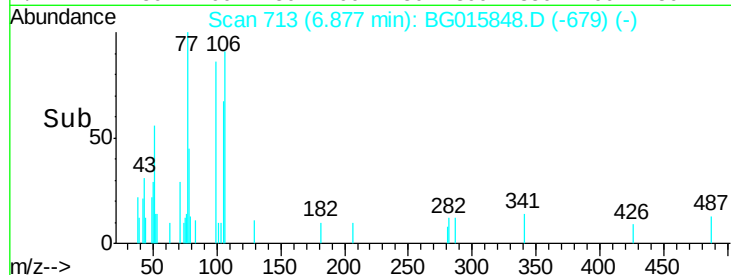
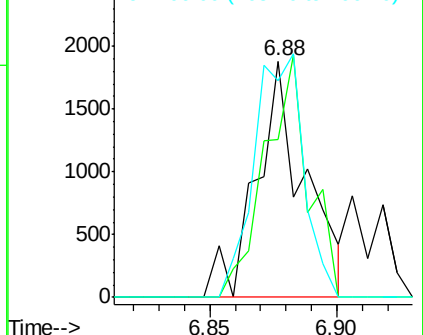
77 100

105 66.8 62.4 102.4

106 91.4 59.5 99.5



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



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 10.51 min Scan# 1332

Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Tgt Ion: 136 Resp: 194877

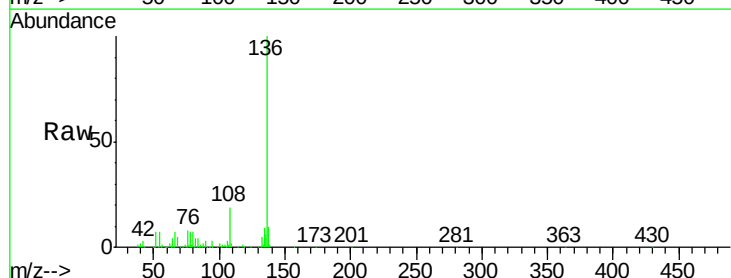
Ion Ratio Lower Upper

136 100

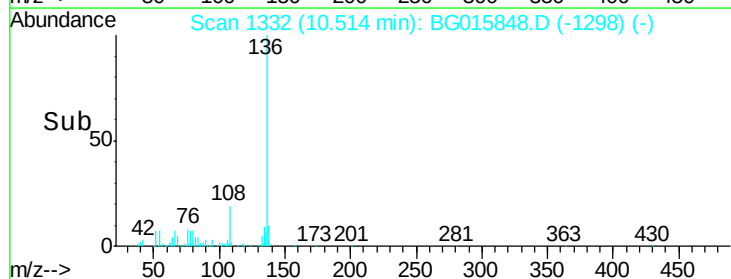
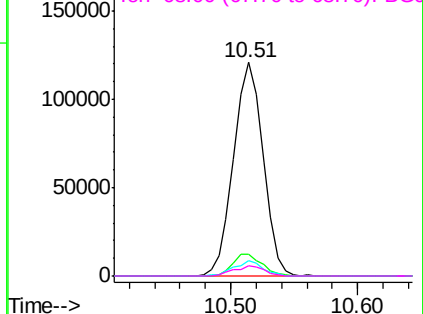
137 10.0 9.6 14.4

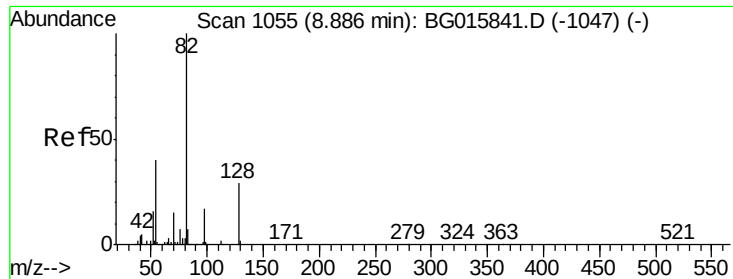
54 7.1 4.5 6.7#

68 4.7 5.0 7.4#



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

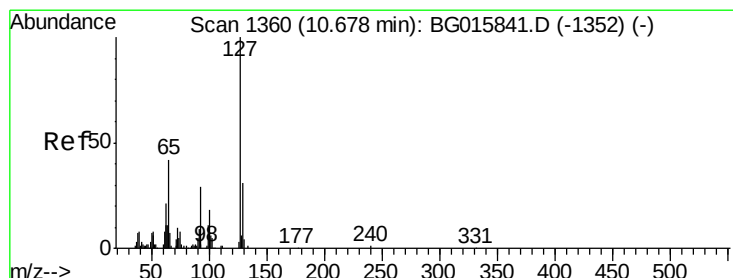
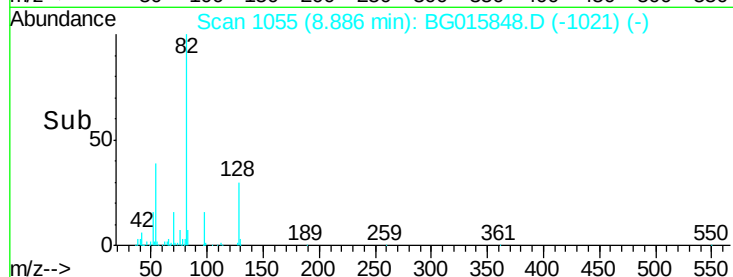
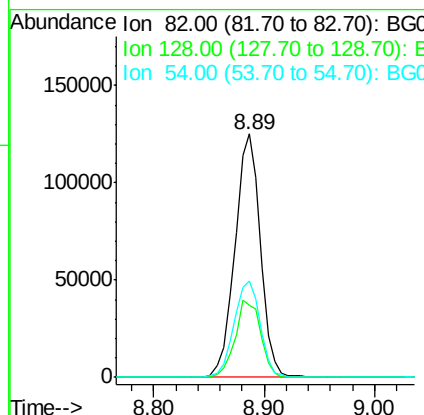
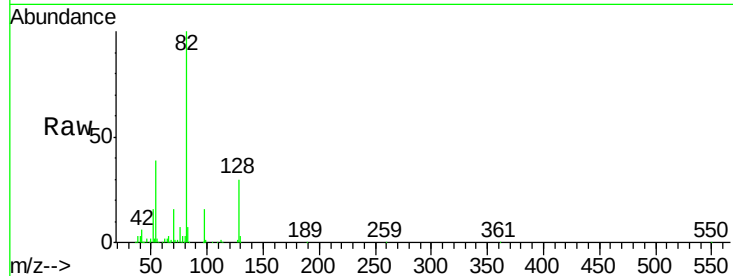




#23  
 Nitrobenzene-d5  
 Concen: 20.33 ng  
 RT: 8.89 min Scan# 1055  
 Delta R.T. 0.00 min  
 Lab File: BG015848.D  
 Acq: 5 Jan 2015 18:27

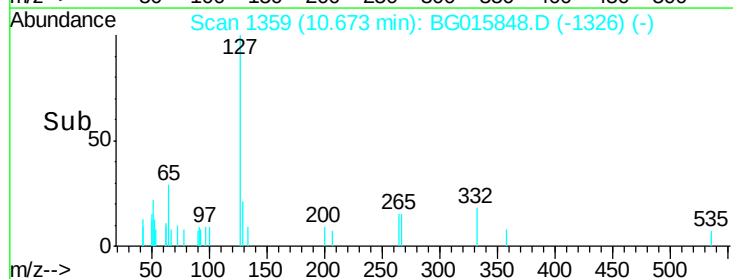
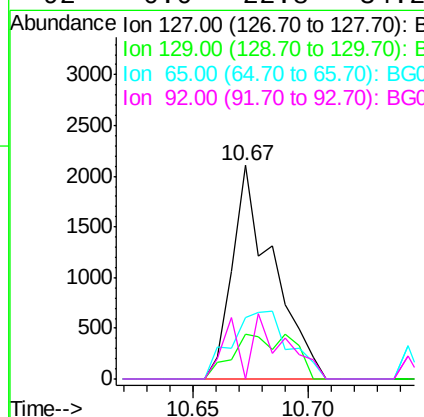
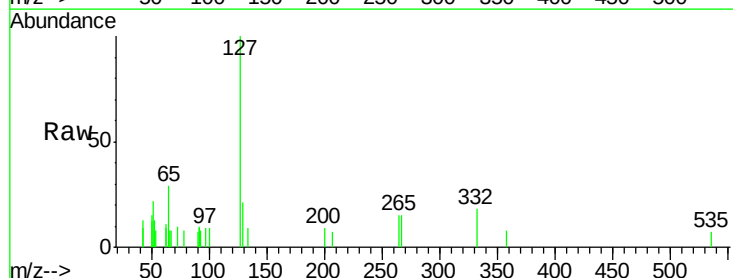
Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2015-01

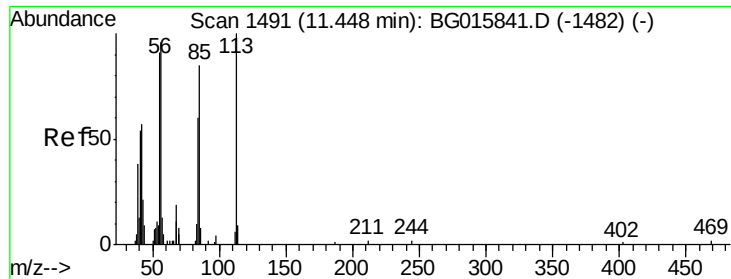
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 29.6  | 23.4  | 35.0  |
| 54      | 39.4  | 32.3  | 48.5  |



#33  
 4-Chloroaniline  
 Concen: 0.62 ng  
 RT: 10.67 min Scan# 1359  
 Delta R.T. -0.01 min  
 Lab File: BG015848.D  
 Acq: 5 Jan 2015 18:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 20.8  | 25.0  | 37.6# |
| 65      | 28.9  | 33.3  | 49.9# |
| 92      | 0.0   | 22.8  | 34.2# |





#35

Caprolactam

Concen: 0.94 ng

RT: 11.44 min Scan# 1489

Delta R.T. -0.01 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

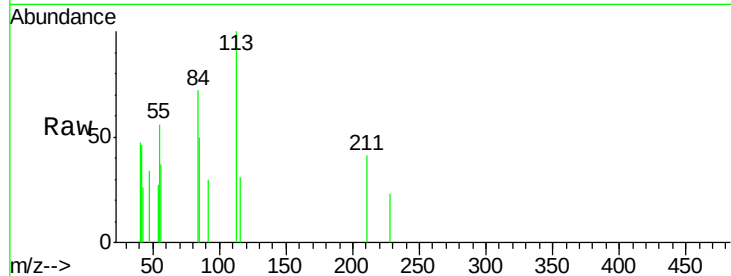
Tgt Ion:113 Resp: 1333

Ion Ratio Lower Upper

113 100

55 55.6 71.3 111.3#

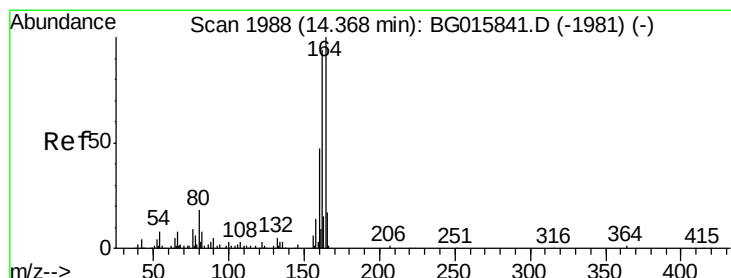
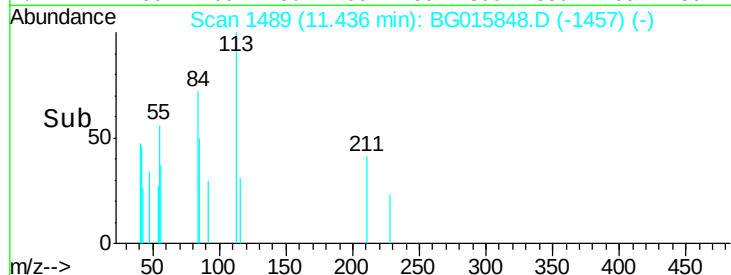
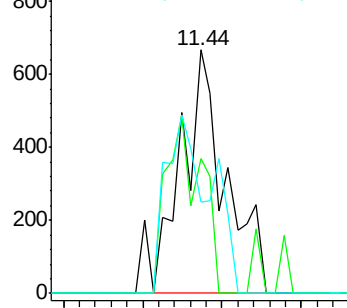
56 37.3 76.0 116.0#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BG015841.D (-1482) (-)

Ion 56.00 (55.70 to 56.70): BG015841.D (-1482) (-)



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.37 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

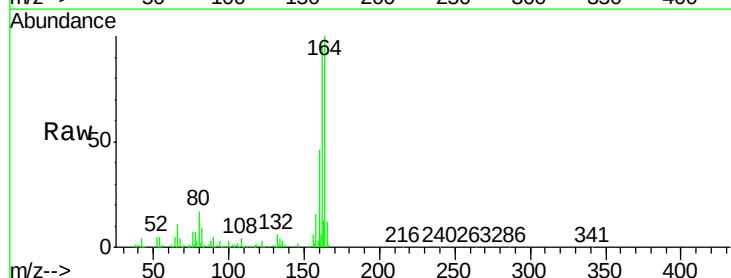
Tgt Ion:164 Resp: 143061

Ion Ratio Lower Upper

164 100

162 96.3 75.5 113.3

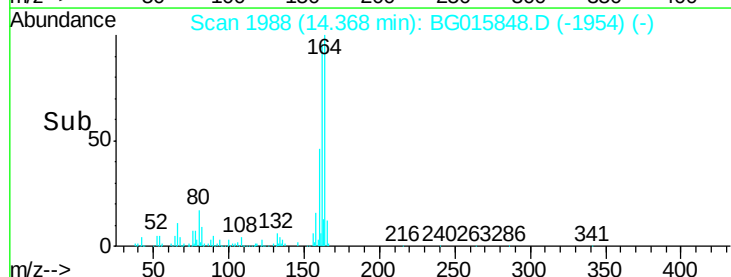
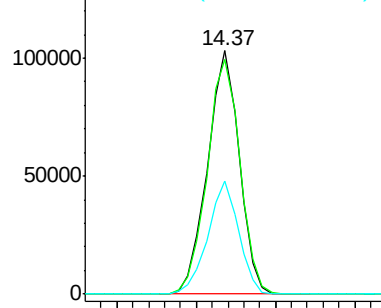
160 46.4 37.4 56.0



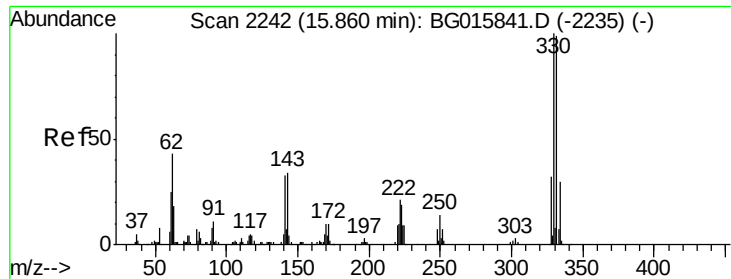
Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



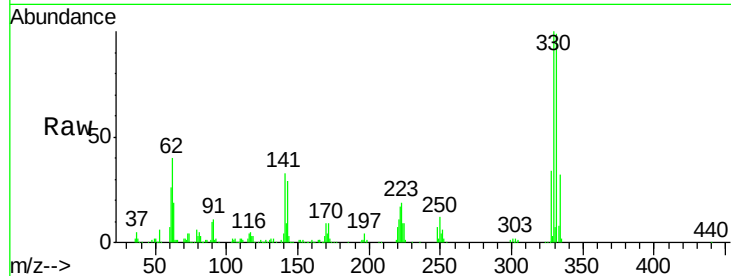




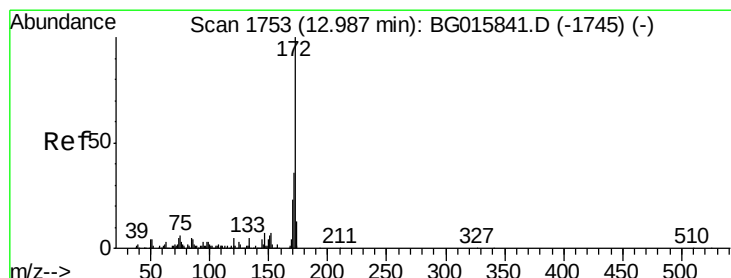
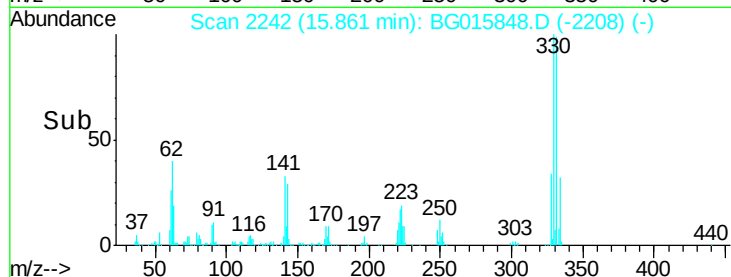
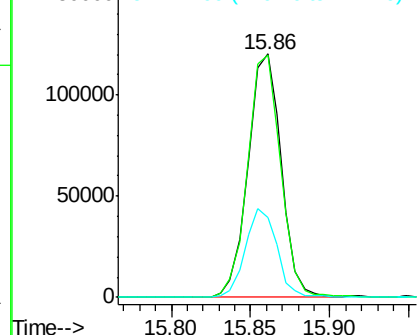
#41  
 2,4,6-Tribromophenol  
 Concen: 32.06 ng  
 RT: 15.86 min Scan# 2242  
 Delta R.T. 0.00 min  
 Lab File: BG015848.D  
 Acq: 5 Jan 2015 18:27

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOD-SOIL2015-01

Tgt Ion:330 Resp: 174329  
 Ion Ratio Lower Upper  
 330 100  
 332 98.9 73.8 110.8  
 141 35.0 27.2 40.8

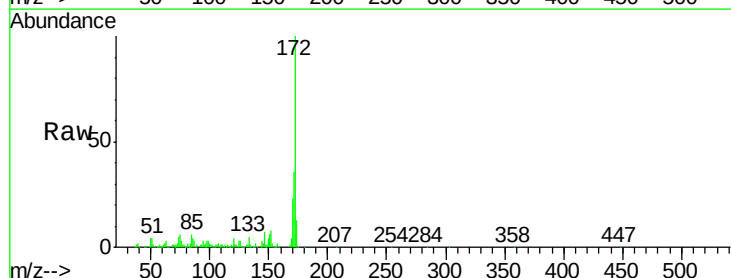


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

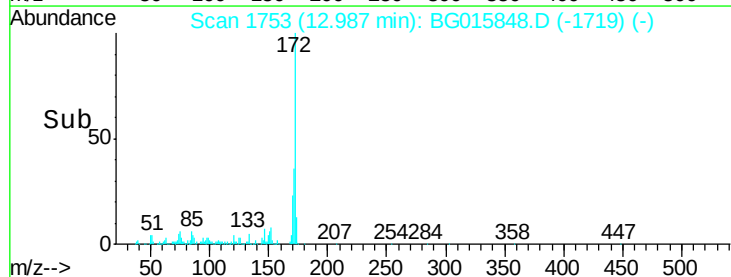
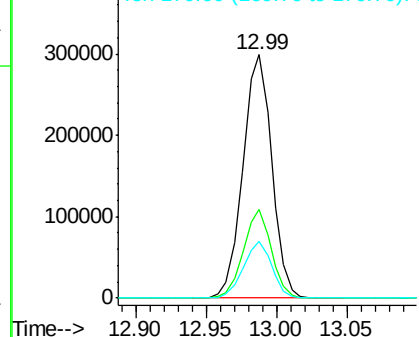


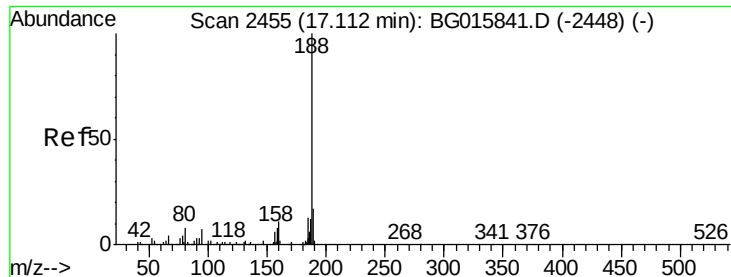
#44  
 2-Fluorobiphenyl  
 Concen: 21.30 ng  
 RT: 12.99 min Scan# 1753  
 Delta R.T. 0.00 min  
 Lab File: BG015848.D  
 Acq: 5 Jan 2015 18:27

Tgt Ion:172 Resp: 426650  
 Ion Ratio Lower Upper  
 172 100  
 171 36.5 28.6 43.0  
 170 23.1 18.2 27.4



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.11 min Scan# 2455

Delta R.T. 0.00 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

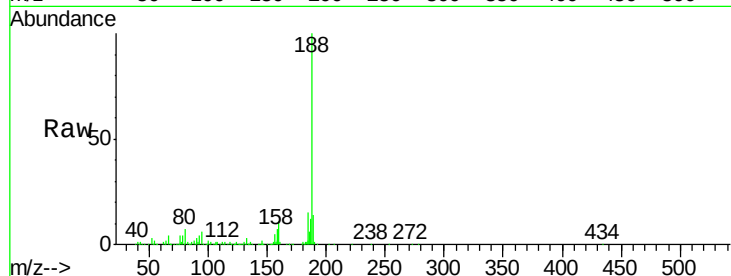
Tgt Ion:188 Resp: 352912

Ion Ratio Lower Upper

188 100

94 5.5 5.4 8.0

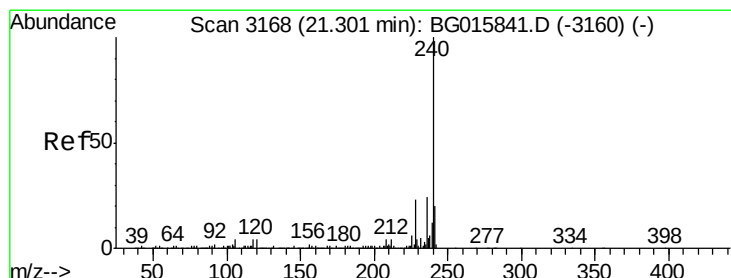
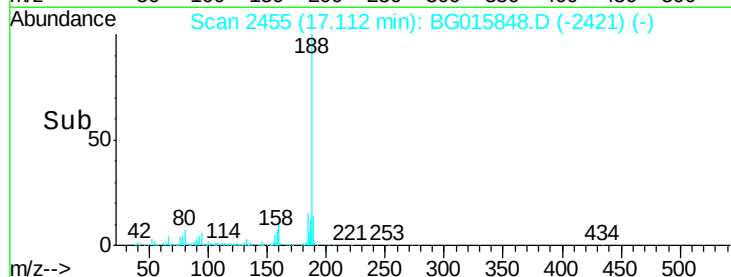
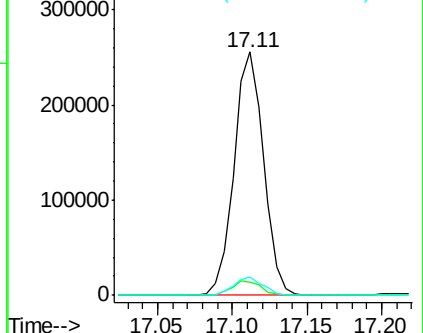
80 7.4 6.6 9.8



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.30 min Scan# 3167

Delta R.T. -0.01 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

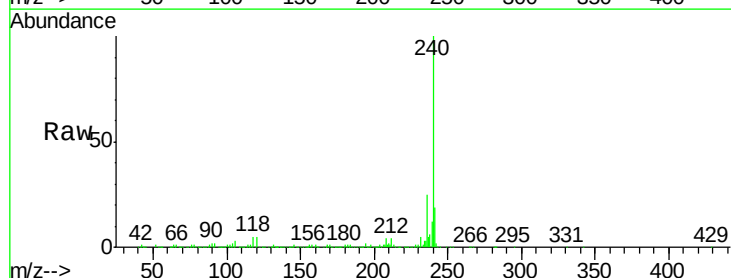
Tgt Ion:240 Resp: 529883

Ion Ratio Lower Upper

240 100

120 4.6 3.4 5.2

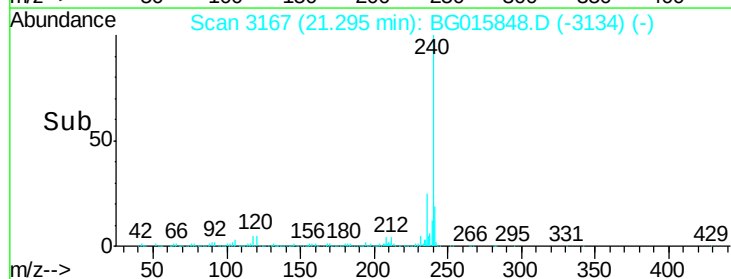
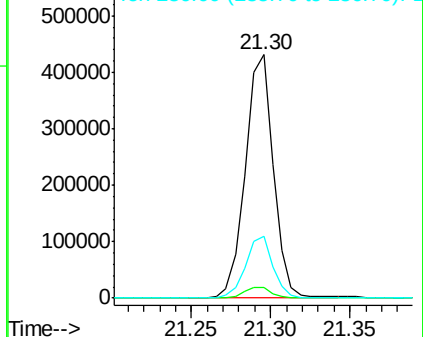
236 25.3 19.0 28.6

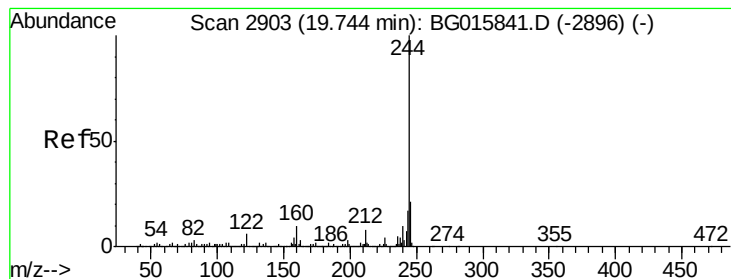


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 21.04 ng

RT: 19.74 min Scan# 2902

Delta R.T. -0.01 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

Instrument :

BNA\_G

ClientSampleId :

LOD-SOIL2015-01

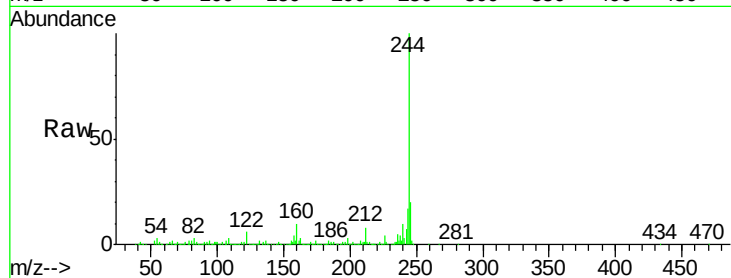
Tgt Ion:244 Resp: 997834

Ion Ratio Lower Upper

244 100

212 8.1 6.6 9.8

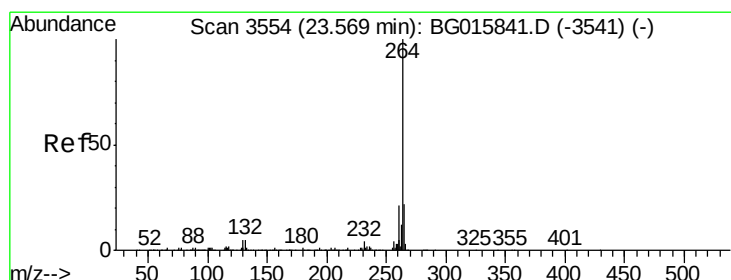
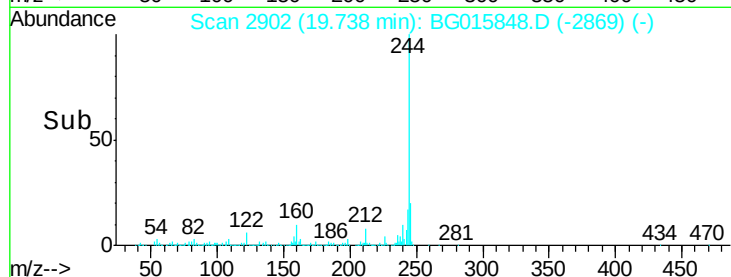
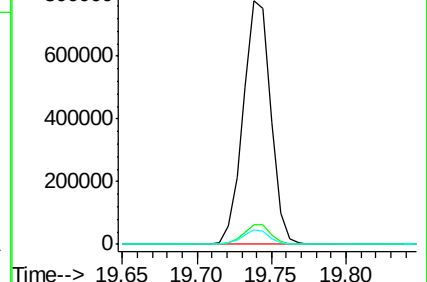
122 6.1 4.7 7.1



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: 23.56 min Scan# 3553

Delta R.T. -0.01 min

Lab File: BG015848.D

Acq: 5 Jan 2015 18:27

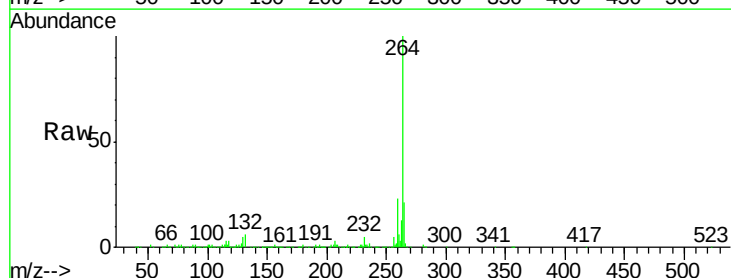
Tgt Ion:264 Resp: 511923

Ion Ratio Lower Upper

264 100

260 23.2 17.0 25.4

265 20.5 17.4 26.0



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

