

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG120415\  
 Data File : BG019910.D  
 Acq On : 4 Dec 2015 18:23  
 Operator : UM/NP  
 Sample : G4221-15  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

Quant Time: Dec 04 22:19:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 32223    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.94 | 136  | 142019   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.75 | 164  | 101369   | 20.00 | ng    | -0.02    |
| 63) Phenanthrene-d10      | 17.49 | 188  | 247462   | 20.00 | ng    | -0.02    |
| 75) Chrysene-d12          | 21.77 | 240  | 288853   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 25.05 | 264  | 281835   | 20.00 | ng    | -0.05    |

## System Monitoring Compounds

|                          |       |     |         |        |    |       |
|--------------------------|-------|-----|---------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 259534  | 145.57 | ng | 0.00  |
| 7) Phenol-d6             | 7.26  | 99  | 398545  | 148.05 | ng | -0.01 |
| 23) Nitrobenzene-d5      | 9.28  | 82  | 271399  | 97.53  | ng | -0.02 |
| 41) 2,4,6-Tribromophenol | 16.23 | 330 | 204423  | 131.80 | ng | -0.02 |
| 44) 2-Fluorobiphenyl     | 13.37 | 172 | 650642  | 87.64  | ng | -0.02 |
| 78) Terphenyl-d14        | 20.09 | 244 | 1071084 | 90.45  | ng | -0.02 |

## Target Compounds

|                                |       |     |         |        |    | Qvalue |
|--------------------------------|-------|-----|---------|--------|----|--------|
| 8) 2-Chlorophenol              | 7.68  | 128 | 113869  | 52.38  | ng | 95     |
| 10) Phenol                     | 7.29  | 94  | 220706  | 77.90  | ng | 79     |
| 12) 1,3-Dichlorobenzene        | 8.01  | 146 | 351070  | 142.47 | ng | # 94   |
| 13) 1,4-Dichlorobenzene        | 8.15  | 146 | 134416  | 52.82  | ng | 94     |
| 17) 2-Methylphenol             | 8.55  | 107 | 24537   | 12.27  | ng | # 93   |
| 18) Hexachloroethane           | 9.21  | 117 | 105024  | 110.21 | ng | 95     |
| 24) Nitrobenzene               | 9.33  | 77  | 445354  | 147.54 | ng | 91     |
| 25) Isophorone                 | 9.86  | 82  | 1024454 | 171.72 | ng | # 98   |
| 26) 2-Nitrophenol              | 9.86  | 139 | 17421   | 14.94  | ng | # 22   |
| 29) 2,4-Dichlorophenol         | 10.58 | 162 | 210124  | 84.72  | ng | 94     |
| 30) 1,2,4-Trichlorobenzene     | 10.80 | 180 | 346339  | 123.56 | ng | 94     |
| 31) Naphthalene                | 10.99 | 128 | 1046705 | 137.58 | ng | 97     |
| 33) 4-Chloroaniline            | 10.99 | 127 | 149870  | 44.70  | ng | # 36   |
| 34) Hexachlorobutadiene        | 11.27 | 225 | 296997  | 143.65 | ng | 99     |
| 36) 4-Chloro-3-methylphenol    | 12.20 | 107 | 457932  | 148.26 | ng | 94     |
| 37) 2-Methylnaphthalene        | 12.59 | 142 | 561782  | 100.76 | ng | # 95   |
| 42) 2,4,6-Trichlorophenol      | 13.18 | 196 | 180028  | 70.69  | ng | 98     |
| 43) 2,4,5-Trichlorophenol      | 13.25 | 196 | 277268  | 103.01 | ng | 96     |
| 48) Acenaphthylene             | 14.47 | 152 | 952148  | 87.17  | ng | 98     |
| 49) Dimethylphthalate          | 14.21 | 163 | 1382742 | 151.64 | ng | # 99   |
| 50) 2,6-Dinitrotoluene         | 14.21 | 165 | 16875   | 9.84   | ng | # 1    |
| 51) Acenaphthene               | 14.81 | 154 | 361878  | 54.60  | ng | 99     |
| 54) Dibenzofuran               | 15.15 | 168 | 1582087 | 160.46 | ng | # 84   |
| 55) 4-Nitrophenol              | 14.95 | 139 | 190432  | 122.76 | ng | # 67   |
| 57) Fluorene                   | 15.80 | 166 | 1024640 | 116.11 | ng | 98     |
| 59) Diethylphthalate           | 15.56 | 149 | 1200563 | 121.65 | ng | 98     |
| 61) 4-Nitroaniline             | 15.80 | 138 | 14054   | 7.02   | ng | # 23   |
| 64) 4,6-Dinitro-2-methylphenol | 15.64 | 198 | 59      | 6.14   | ng | # 37   |
| 66) 4-Bromophenyl-phenylether  | 16.68 | 248 | 264908  | 86.15  | ng | 96     |
| 70) Phenanthrene               | 17.53 | 178 | 1133600 | 80.97  | ng | 100    |
| 71) Anthracene                 | 17.53 | 178 | 1133600 | 79.49  | ng | 100    |
| 72) Carbazole                  | 17.89 | 167 | 287621  | 22.89  | ng | 97     |
| 73) Di-n-butylphthalate        | 18.44 | 149 | 630091  | 40.92  | ng | 98     |
| 74) Fluoranthene               | 19.54 | 202 | 1374462 | 76.75  | ng | 95     |

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 Data File : BG019910.D  
 Acq On : 4 Dec 2015 18:23  
 Operator : UM/NP  
 Sample : G4221-15  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

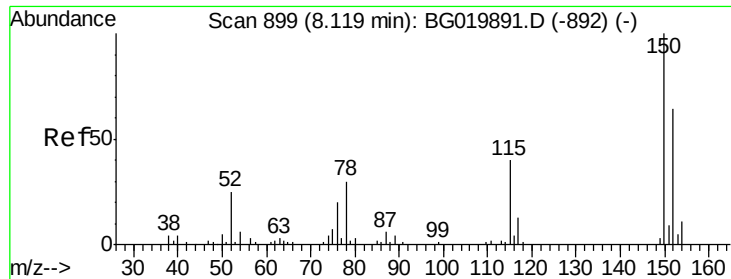
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

Quant Time: Dec 04 22:19:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\8270-BG120215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Dec 02 18:50:01 2015  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 80) Benzo(a)anthracene         | 21.75 | 228  | 1528536  | 86.45  | ng    | 96       |
| 82) Chrysene                   | 21.82 | 228  | 1378274  | 82.10  | ng    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 21.66 | 149  | 968395   | 99.07  | ng    | # 99     |
| 84) Di-n-octyl phthalate       | 22.90 | 149  | 1534216  | 96.54  | ng    | # 92     |
| 85) Indeno(1,2,3-cd)pyrene     | 28.92 | 276  | 477727   | 25.83  | ng    | # 100    |
| 87) Benzo(b)fluoranthene       | 24.02 | 252  | 1513508  | 84.73  | ng    | # 97     |
| 88) Benzo(k)fluoranthene       | 24.02 | 252  | 1513508  | 85.56  | ng    | # 97     |
| 90) Dibenzo(a,h)anthracene     | 28.92 | 278  | 1916737  | 114.40 | ng    | # 94     |

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



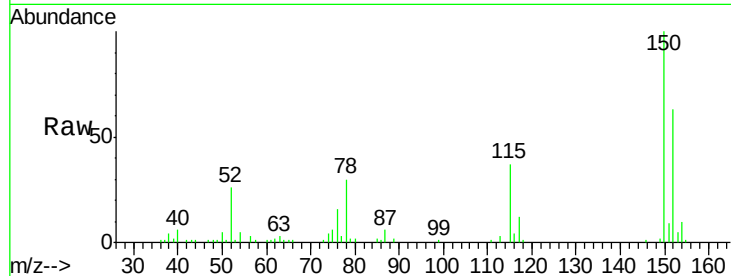


#1

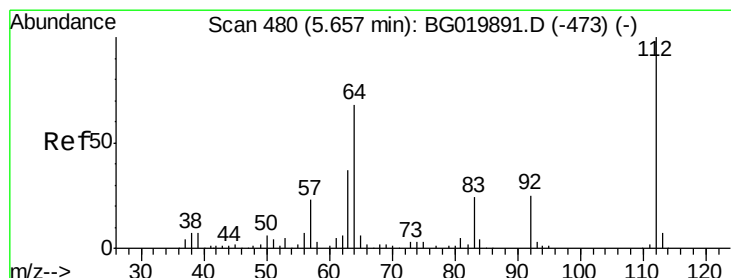
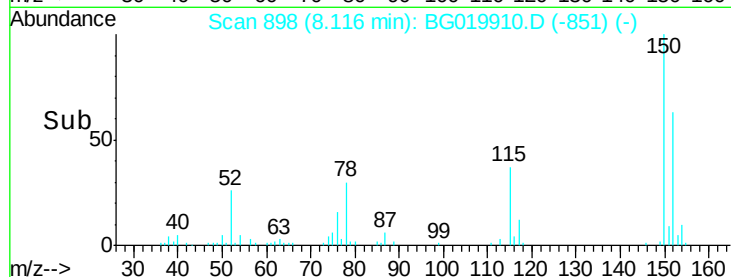
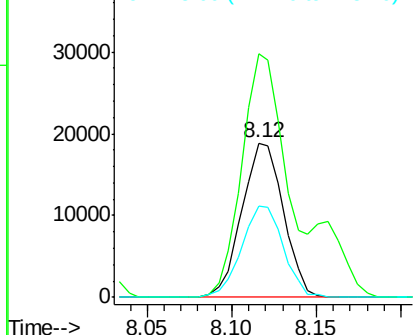
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.12 min Scan# 898  
Delta R.T. -0.02 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

Tgt Ion:152 Resp: 32223  
Ion Ratio Lower Upper  
152 100  
150 157.9 115.0 172.4  
115 59.2 43.9 65.9



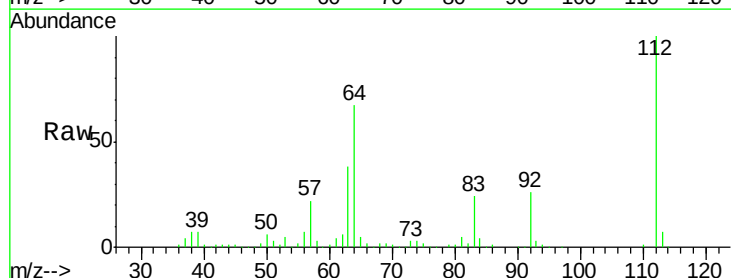
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



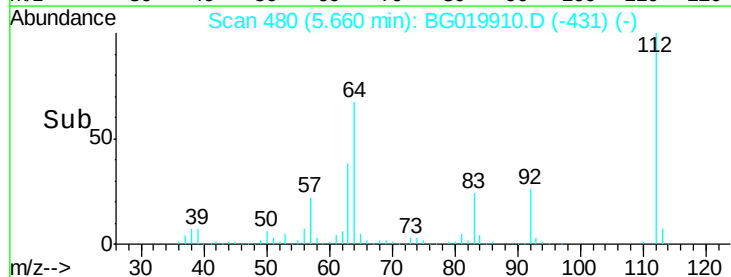
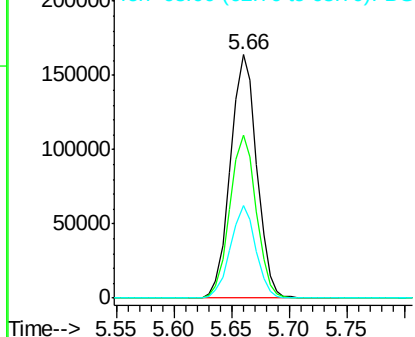
#5

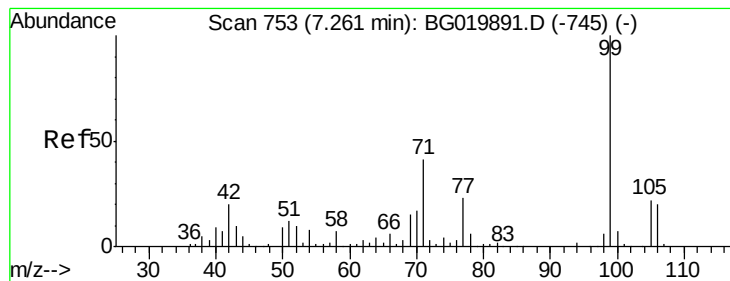
2-Fluorophenol  
Concen: 145.57 ng  
RT: 5.66 min Scan# 480  
Delta R.T. -0.01 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:112 Resp: 259534  
Ion Ratio Lower Upper  
112 100  
64 66.8 43.7 65.5#  
63 37.8 24.0 36.0#



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





#7

Phenol-d6

Concen: 148.05 ng

RT: 7.26 min Scan# 753

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

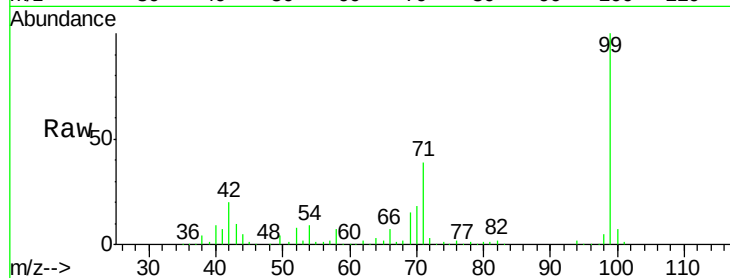
Tgt Ion: 99 Resp: 398545

Ion Ratio Lower Upper

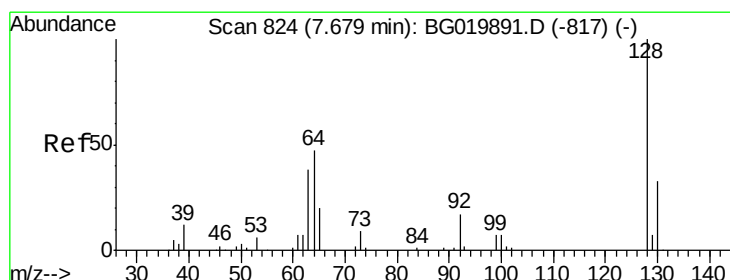
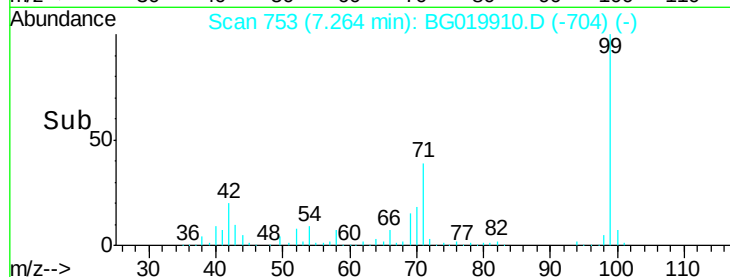
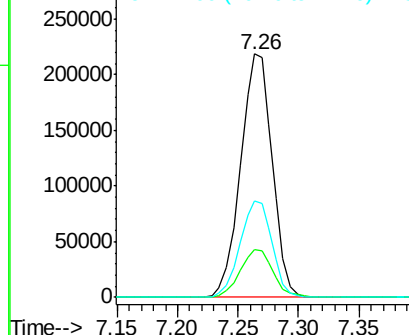
99 100

42 19.9 11.5 17.3#

71 39.5 22.6 34.0#



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



#8

2-Chlorophenol

Concen: 52.38 ng

RT: 7.68 min Scan# 824

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

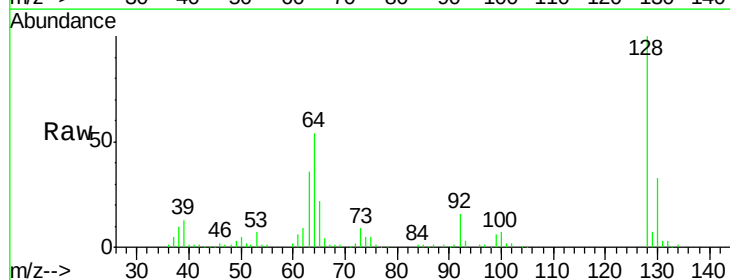
Tgt Ion: 128 Resp: 113869

Ion Ratio Lower Upper

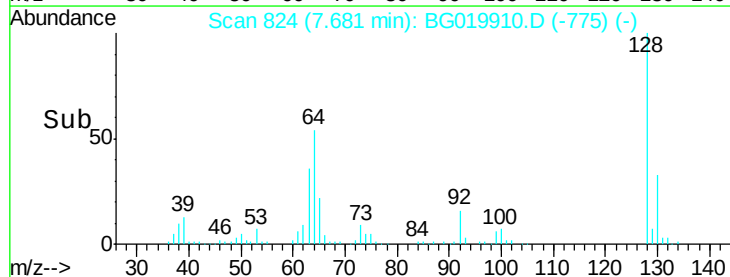
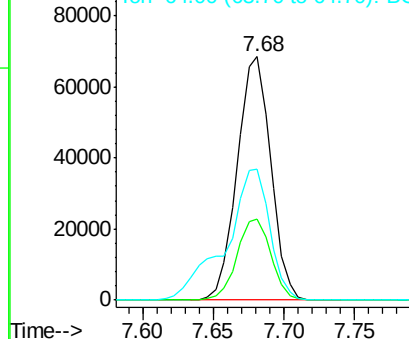
128 100

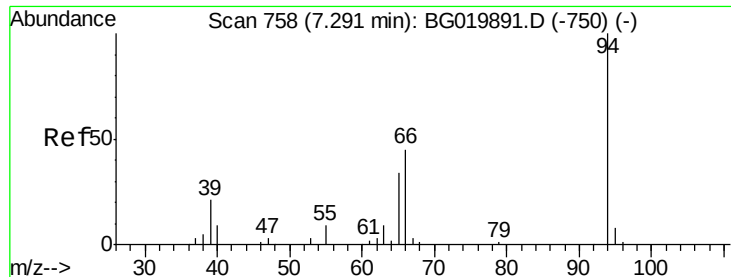
130 33.3 13.0 53.0

64 54.0 28.2 68.2



Abundance Ion 128.00 (127.70 to 128.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC  
Ion 64.00 (63.70 to 64.70): BGC

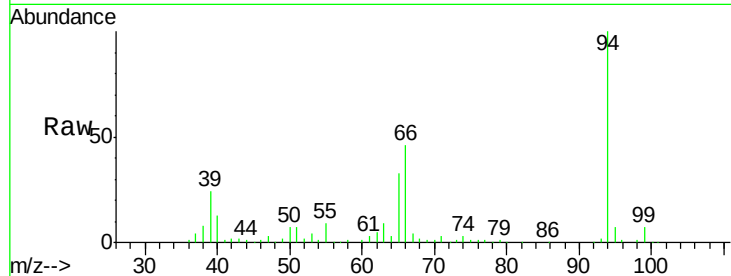




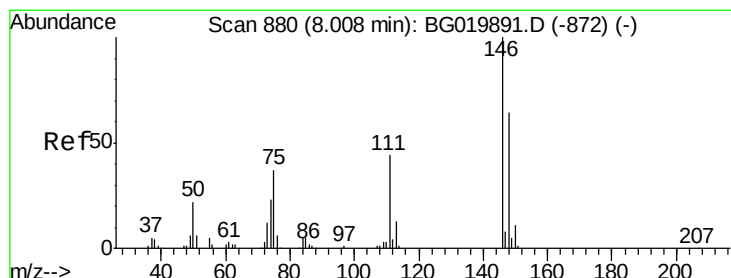
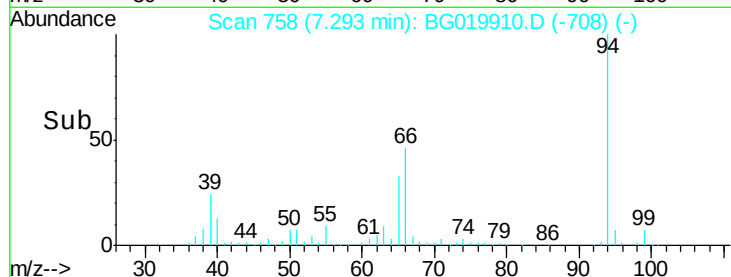
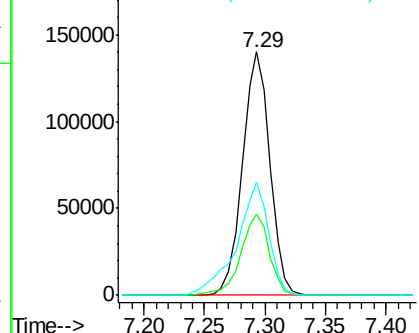
#10  
Phenol  
Concen: 77.90 ng  
RT: 7.29 min Scan# 758  
Delta R.T. -0.00 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

Tgt Ion: 94 Resp: 220706  
Ion Ratio Lower Upper  
94 100  
65 33.3 5.4 45.4  
66 46.2 11.8 51.8

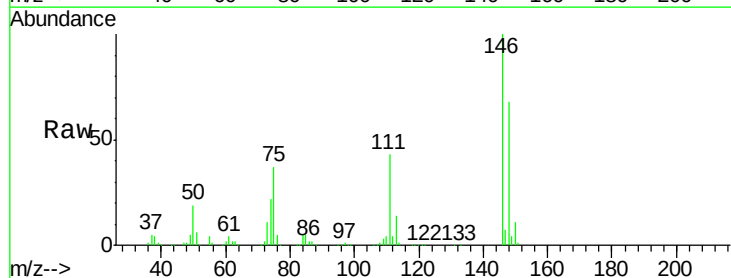


Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC

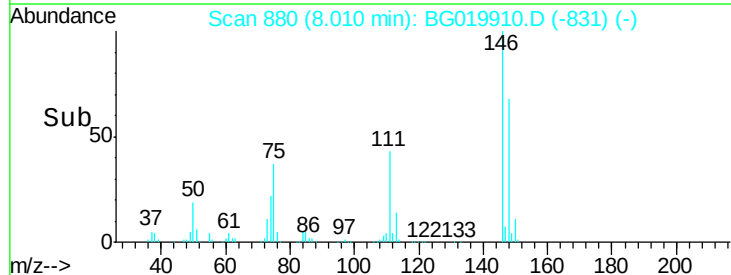
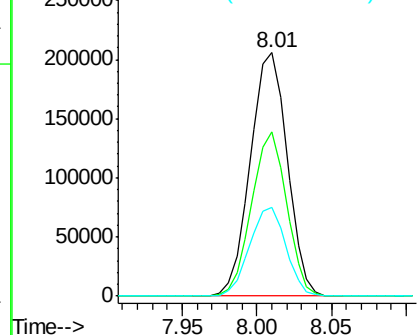


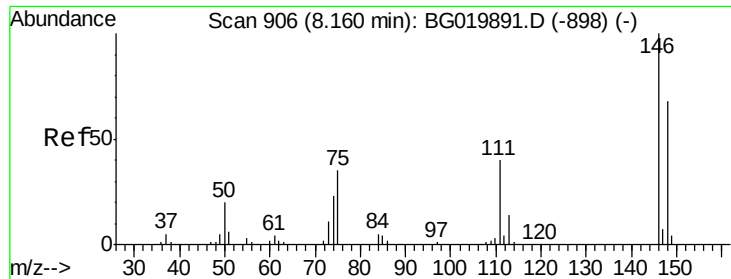
#12  
1,3-Dichlorobenzene  
Concen: 142.47 ng  
RT: 8.01 min Scan# 880  
Delta R.T. -0.01 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion: 146 Resp: 351070  
Ion Ratio Lower Upper  
146 100  
148 67.5 53.4 80.0  
75 36.6 21.1 31.7#



Abundance Ion 146.00 (145.70 to 146.70): BGC  
Ion 148.00 (147.70 to 148.70): BGC  
Ion 75.00 (74.70 to 75.70): BGC

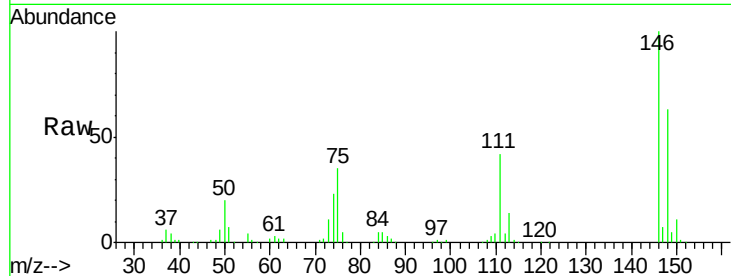




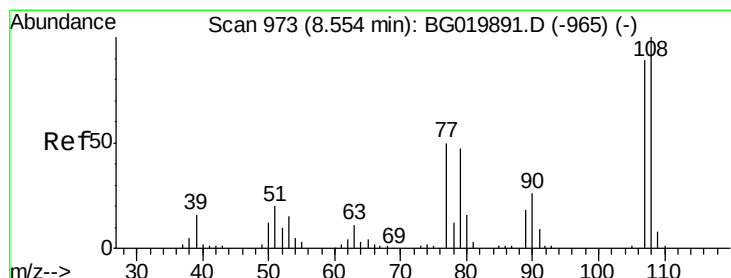
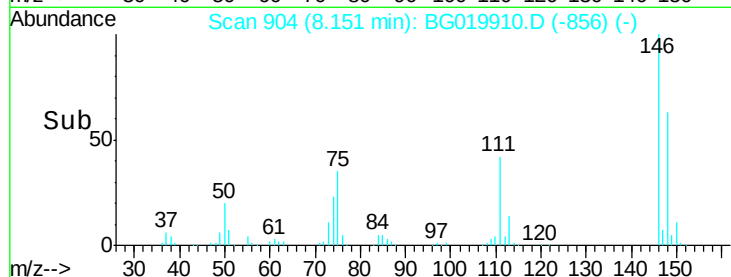
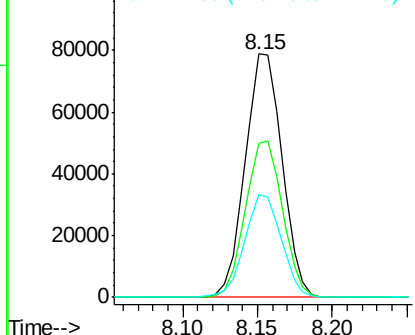
#13  
 1,4-Dichlorobenzene  
 Concen: 52.82 ng  
 RT: 8.15 min Scan# 904  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

Tgt Ion:146 Resp: 134416  
 Ion Ratio Lower Upper  
 146 100  
 148 63.2 52.5 78.7  
 111 42.4 28.3 42.5

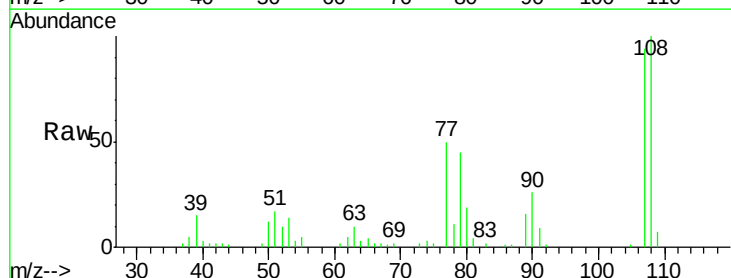


Abundance Ion 146.00 (145.70 to 146.70): E  
 Ion 148.00 (147.70 to 148.70): E  
 Ion 111.00 (110.70 to 111.70): E

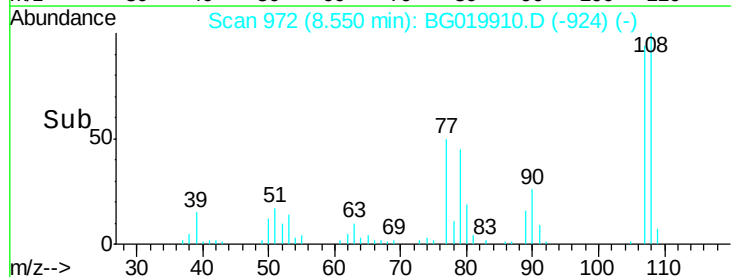
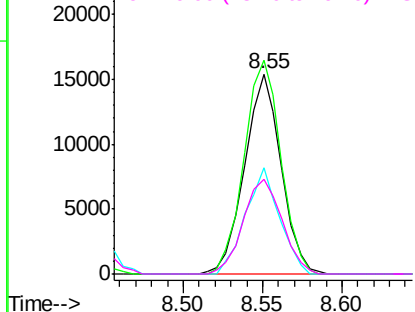


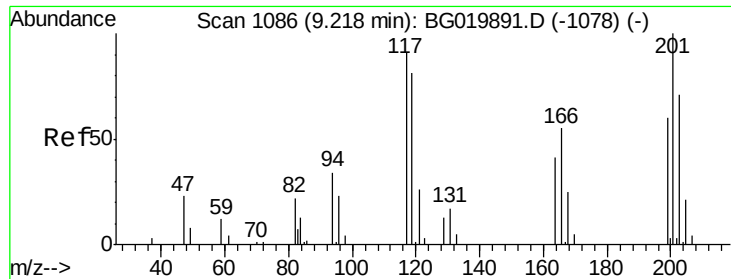
#17  
 2-Methylphenol  
 Concen: 12.27 ng  
 RT: 8.55 min Scan# 972  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Tgt Ion:107 Resp: 24537  
 Ion Ratio Lower Upper  
 107 100  
 108 106.8 86.5 129.7  
 77 53.1 34.6 51.8#  
 79 47.6 32.3 48.5



Abundance Ion 107.00 (106.70 to 107.70): E  
 Ion 108.00 (107.70 to 108.70): E  
 Ion 77.00 (76.70 to 77.70): BGC  
 Ion 79.00 (78.70 to 79.70): BGC

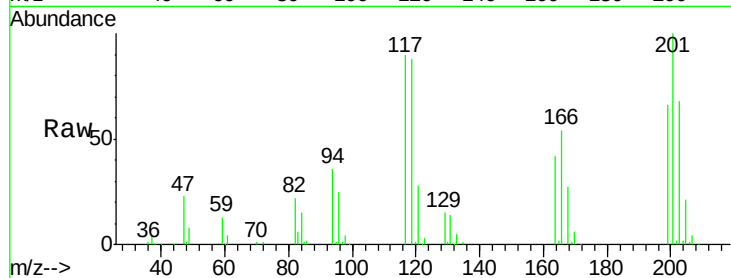




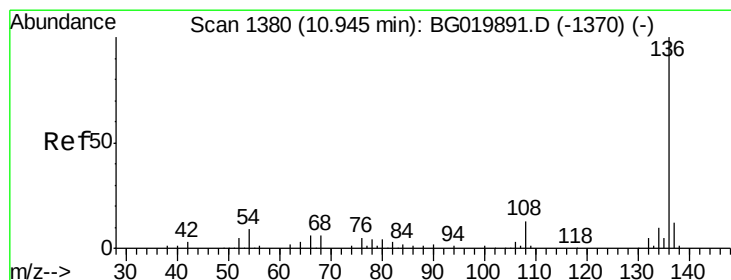
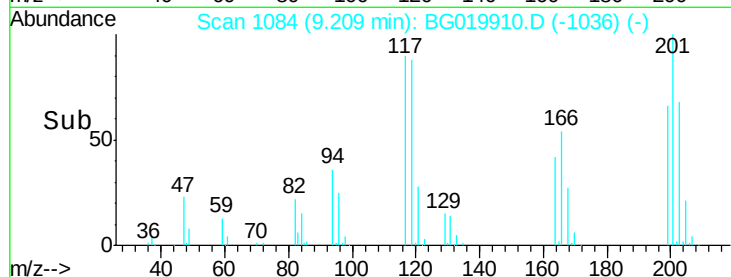
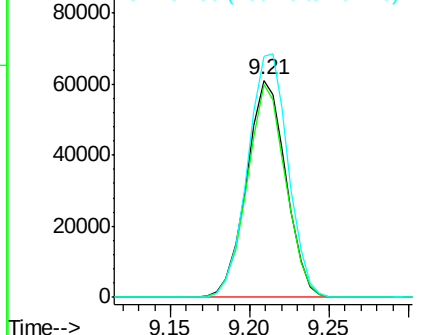
#18  
Hexachloroethane  
Concen: 110.21 ng  
RT: 9.21 min Scan# 1084  
Delta R.T. -0.02 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

Tgt Ion:117 Resp: 105024  
Ion Ratio Lower Upper  
117 100  
119 97.9 71.7 107.5  
201 111.0 90.9 136.3

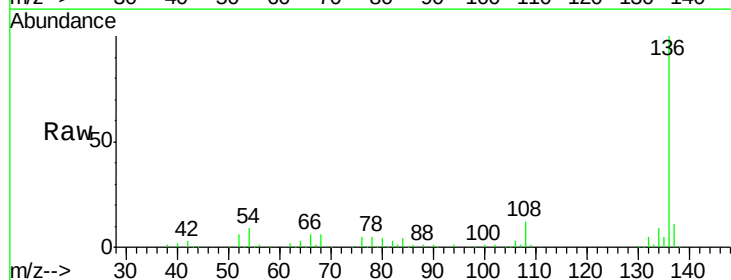


Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

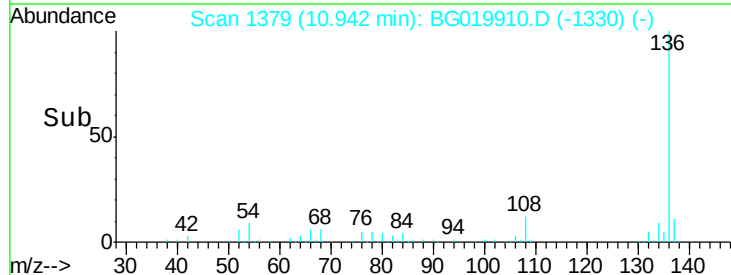
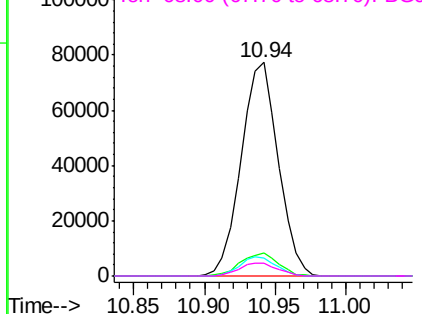


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.94 min Scan# 1379  
Delta R.T. -0.01 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

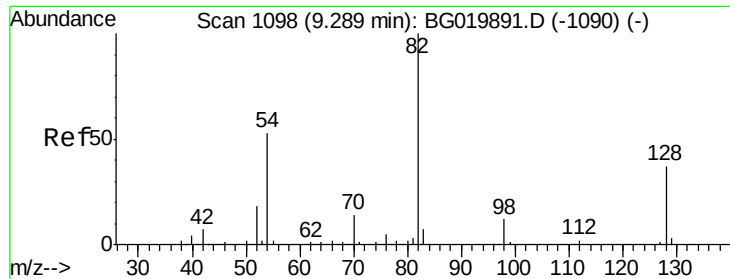
Tgt Ion:136 Resp: 142019  
Ion Ratio Lower Upper  
136 100  
137 10.6 8.6 12.8  
54 8.6 5.4 8.2#  
68 6.1 5.3 7.9



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): BGC  
Ion 68.00 (67.70 to 68.70): BGC



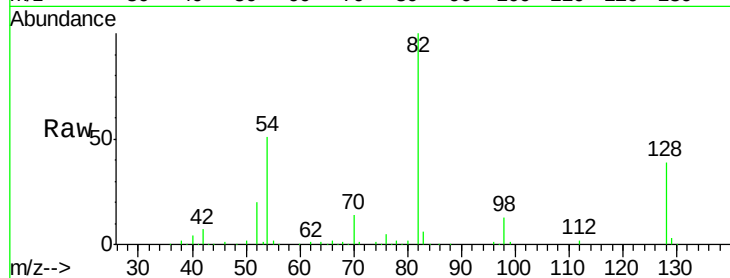




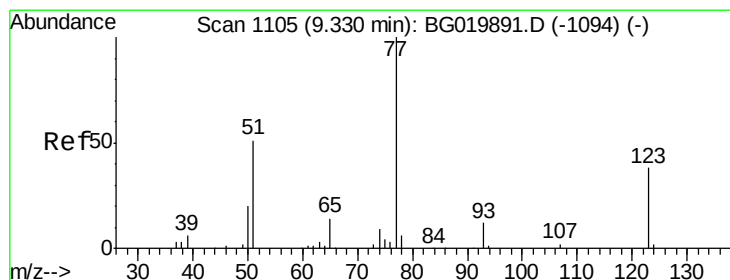
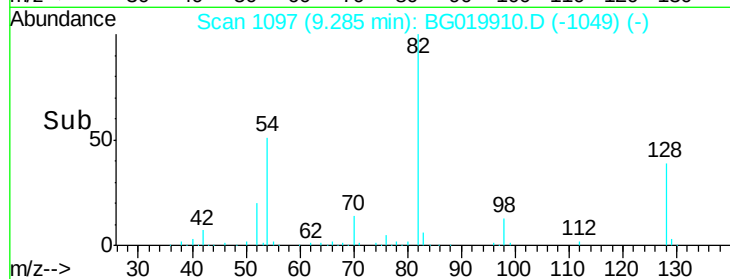
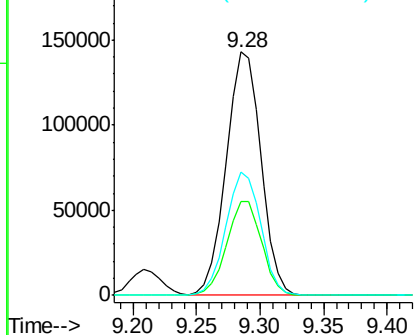
#23  
 Nitrobenzene-d5  
 Concen: 97.53 ng  
 RT: 9.28 min Scan# 1097  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 38.7  | 36.7  | 55.1  |
| 54      | 50.8  | 33.8  | 50.8# |

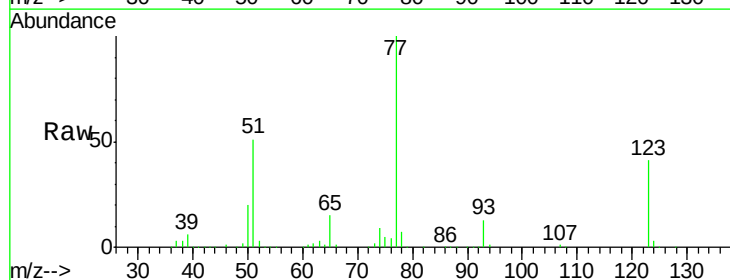


Abundance Ion 82.00 (81.70 to 82.70): BGC  
 Ion 128.00 (127.70 to 128.70): BGC  
 Ion 54.00 (53.70 to 54.70): BGC

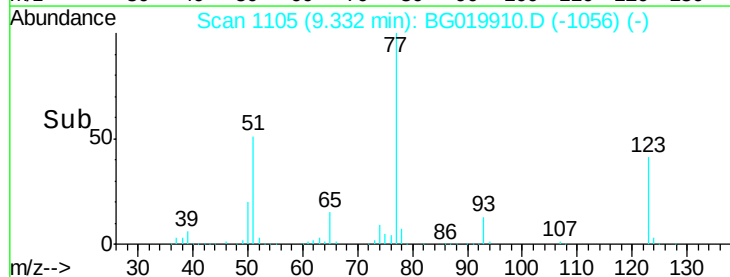
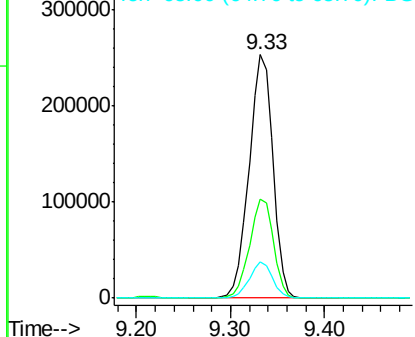


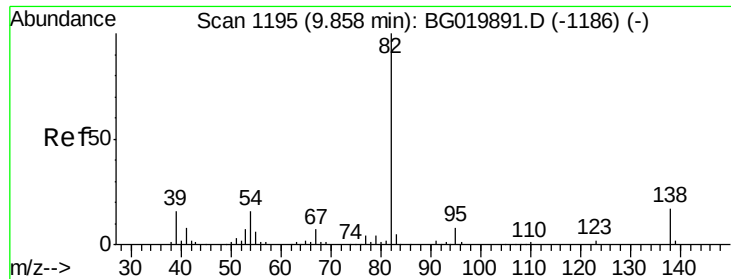
#24  
 Nitrobenzene  
 Concen: 147.54 ng  
 RT: 9.33 min Scan# 1105  
 Delta R.T. -0.01 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 40.9  | 38.2  | 57.2  |
| 65      | 14.8  | 10.6  | 16.0  |



Abundance Ion 77.00 (76.70 to 77.70): BGC  
 Ion 123.00 (122.70 to 123.70): BGC  
 Ion 65.00 (64.70 to 65.70): BGC





#25

Isophorone

Concen: 171.72 ng

RT: 9.86 min Scan# 1195

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

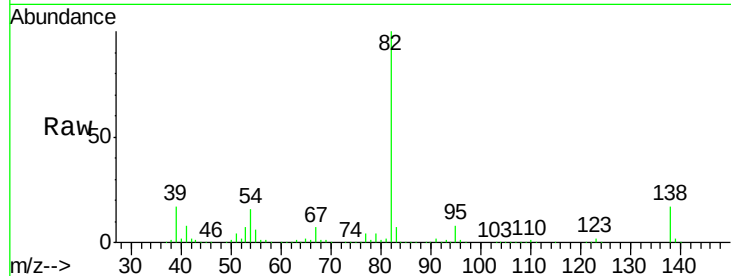
Tgt Ion: 82 Resp: 1024454

Ion Ratio Lower Upper

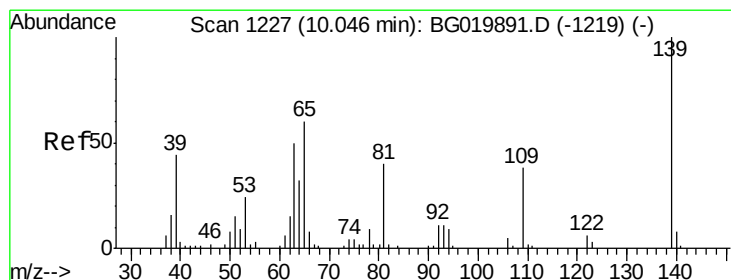
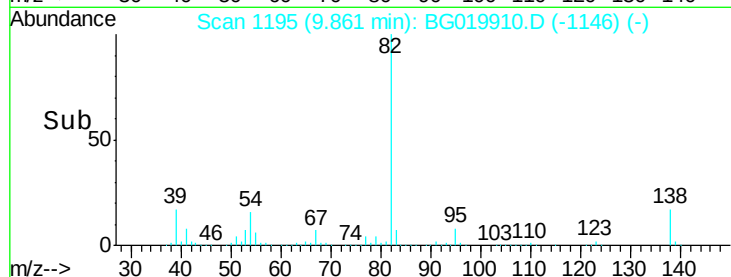
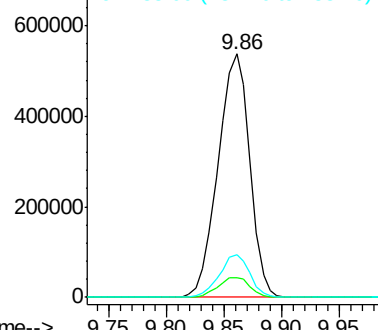
82 100

95 8.0 5.2 7.8#

138 17.4 14.4 21.6



Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#26

2-Nitrophenol

Concen: 14.94 ng

RT: 9.86 min Scan# 1195

Delta R.T. -0.19 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

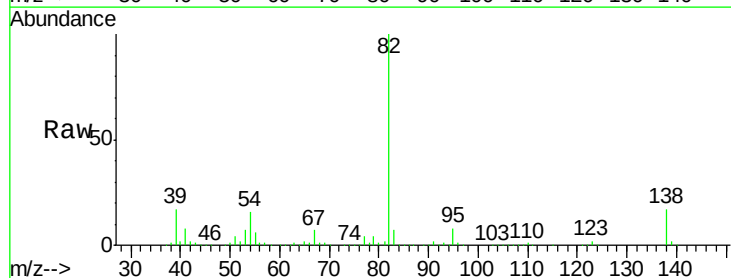
Tgt Ion: 139 Resp: 17421

Ion Ratio Lower Upper

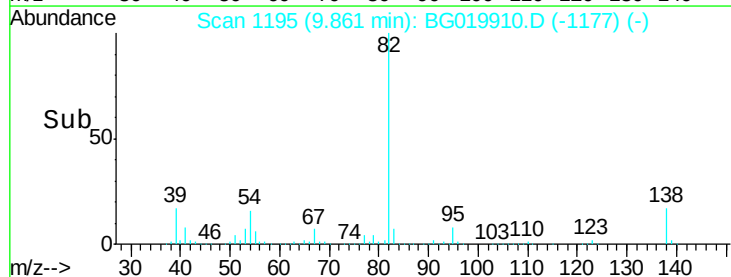
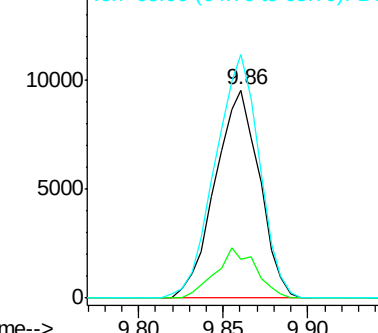
139 100

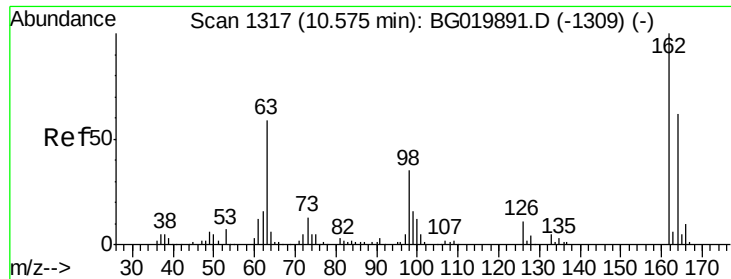
109 18.5 20.1 30.1#

65 117.0 34.1 51.1#



Abundance Ion 139.00 (138.70 to 139.70): BGC  
Ion 109.00 (108.70 to 109.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC





#29

2,4-Dichlorophenol

Concen: 84.72 ng

RT: 10.58 min Scan# 1317

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

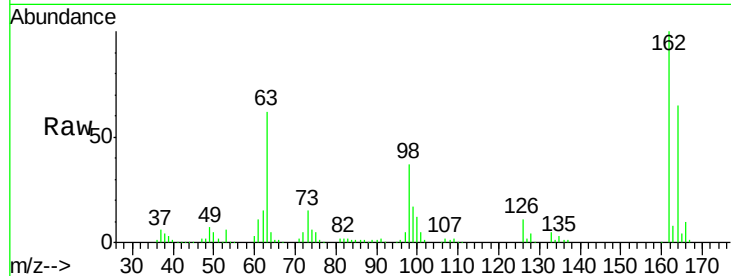
Tgt Ion:162 Resp: 210124

Ion Ratio Lower Upper

162 100

164 64.8 42.3 82.3

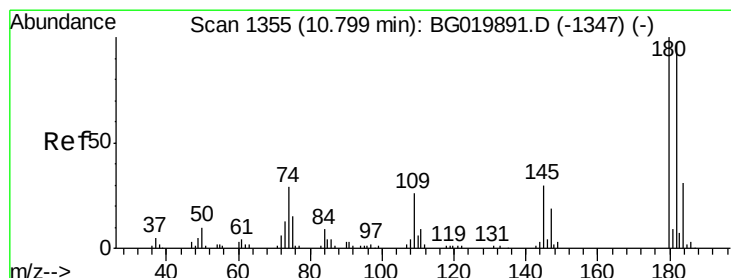
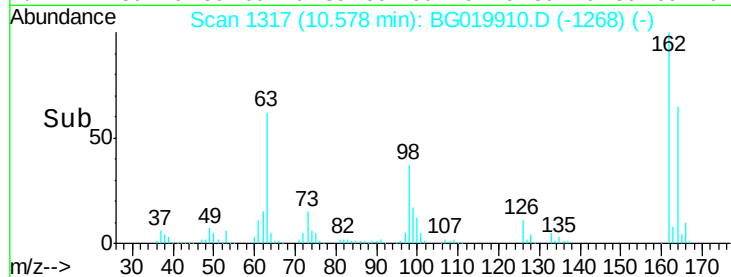
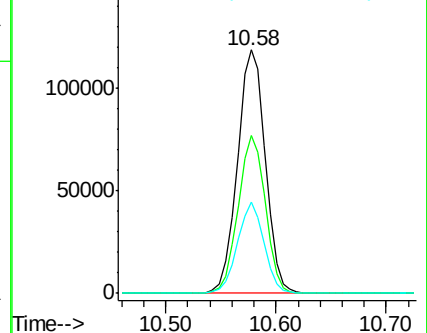
98 37.3 11.5 51.5



Abundance Ion 162.00 (161.70 to 162.70): E

Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): B



#30

1,2,4-Trichlorobenzene

Concen: 123.56 ng

RT: 10.80 min Scan# 1355

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

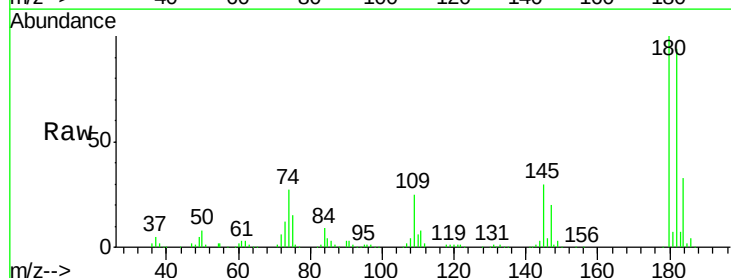
Tgt Ion:180 Resp: 346339

Ion Ratio Lower Upper

180 100

182 94.0 79.7 119.5

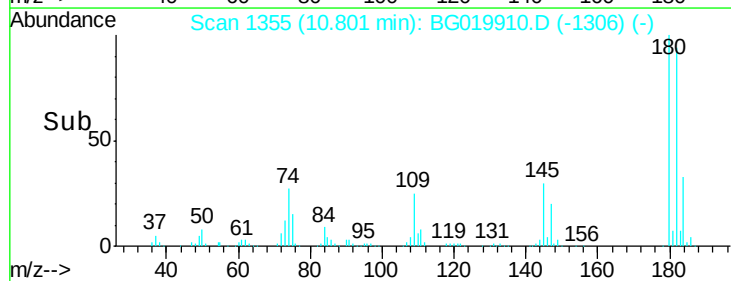
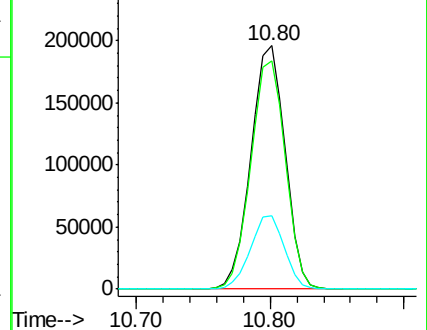
145 30.2 22.0 33.0

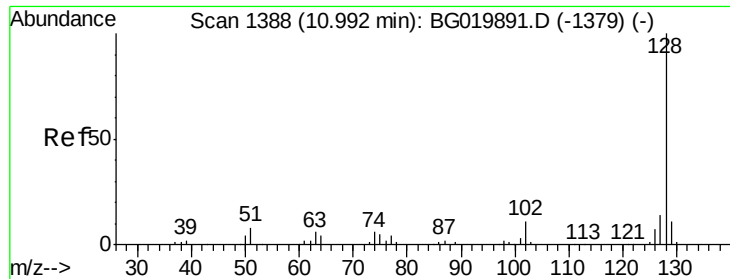


Abundance Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E

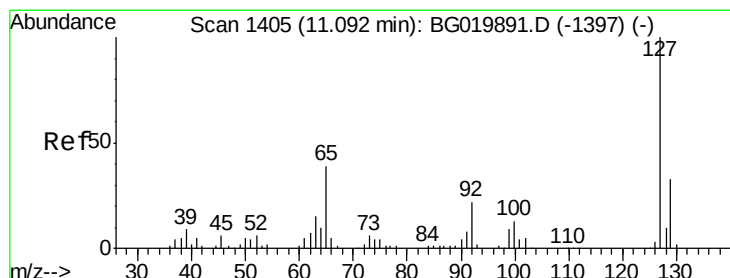
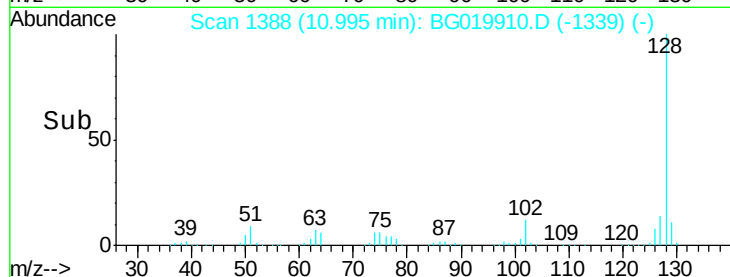
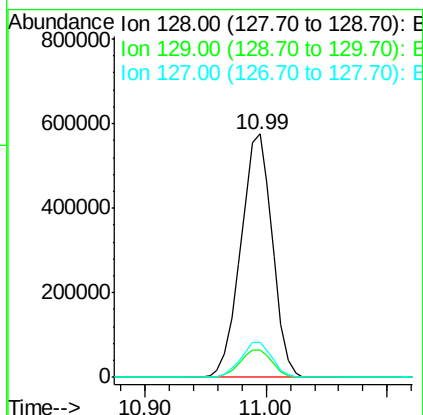
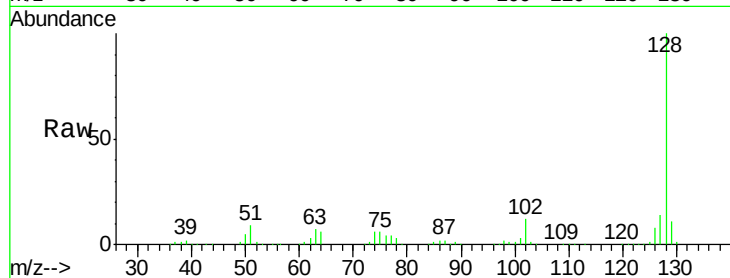




#31  
Naphthalene  
Concen: 137.58 ng  
RT: 10.99 min Scan# 1388  
Delta R.T. -0.01 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

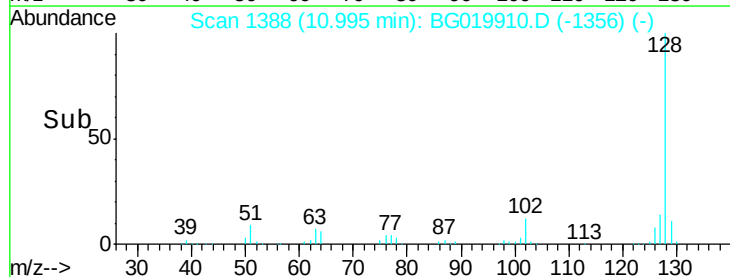
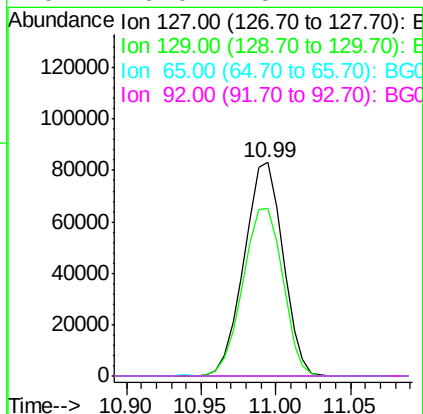
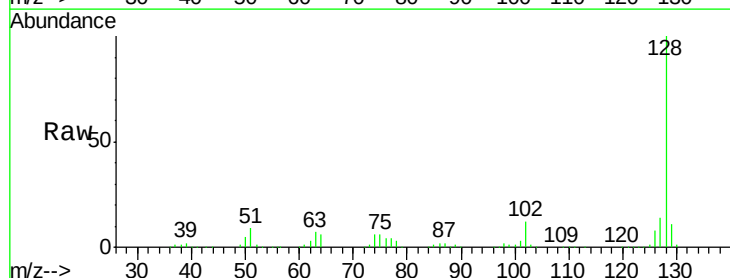
Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

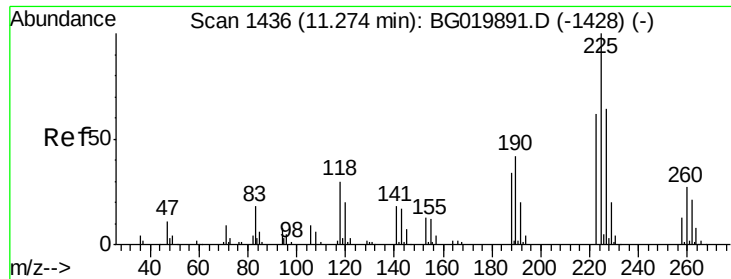
Tgt Ion:128 Resp: 1046705  
Ion Ratio Lower Upper  
128 100  
129 11.4 8.5 12.7  
127 14.4 10.6 16.0



#33  
4-Chloroaniline  
Concen: 44.70 ng  
RT: 10.99 min Scan# 1388  
Delta R.T. -0.11 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:127 Resp: 149870  
Ion Ratio Lower Upper  
127 100  
129 78.8 24.6 37.0#  
65 0.0 22.6 33.8#  
92 0.0 15.1 22.7#

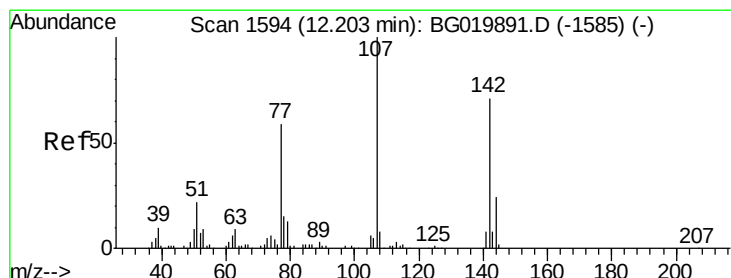
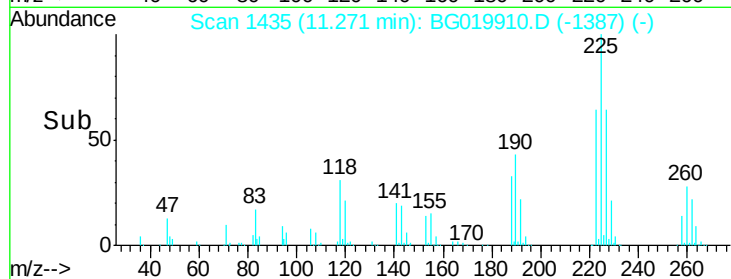
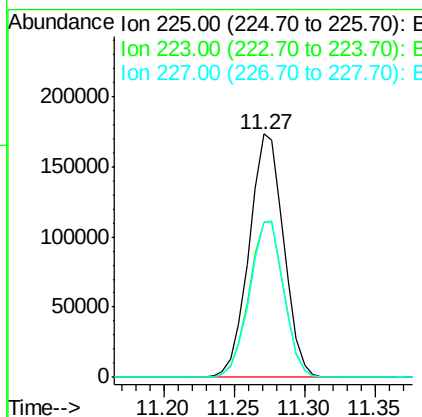
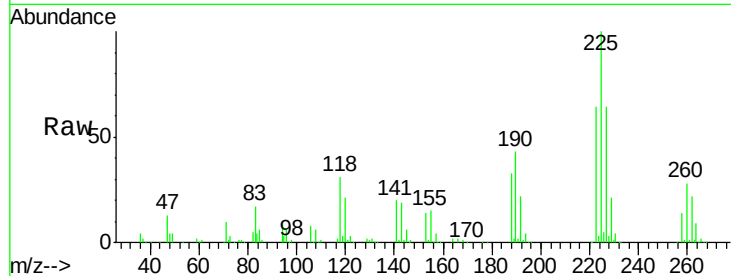




#34  
Hexachlorobutadiene  
Concen: 143.65 ng  
RT: 11.27 min Scan# 1435  
Delta R.T. -0.02 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

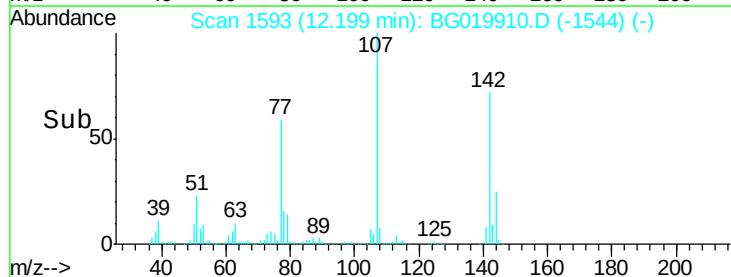
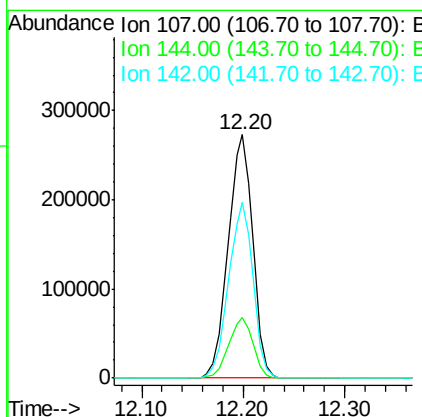
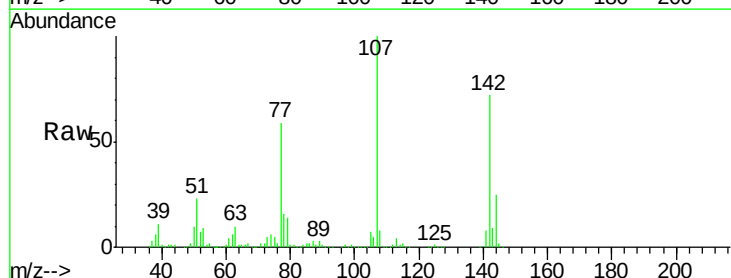
Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

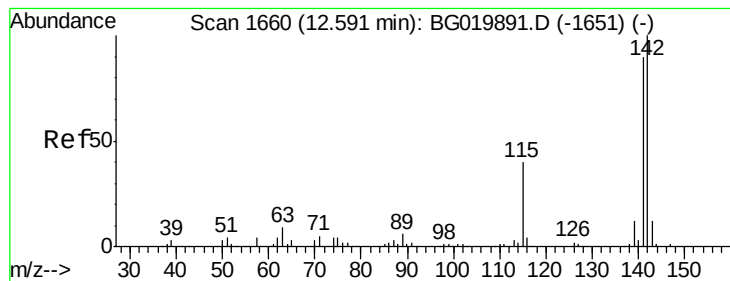
Tgt Ion: 225 Resp: 296997  
Ion Ratio Lower Upper  
225 100  
223 63.6 51.0 76.4  
227 63.5 51.8 77.8



#36  
4-Chloro-3-methylphenol  
Concen: 148.26 ng  
RT: 12.20 min Scan# 1593  
Delta R.T. -0.01 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion: 107 Resp: 457932  
Ion Ratio Lower Upper  
107 100  
144 24.7 20.6 31.0  
142 72.3 62.6 93.8





#37

2-Methylnaphthalene

Concen: 100.76 ng

RT: 12.59 min Scan# 1659

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

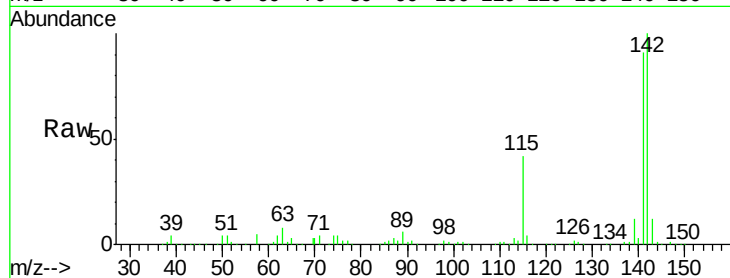
Tgt Ion:142 Resp: 561782

Ion Ratio Lower Upper

142 100

141 91.3 74.6 112.0

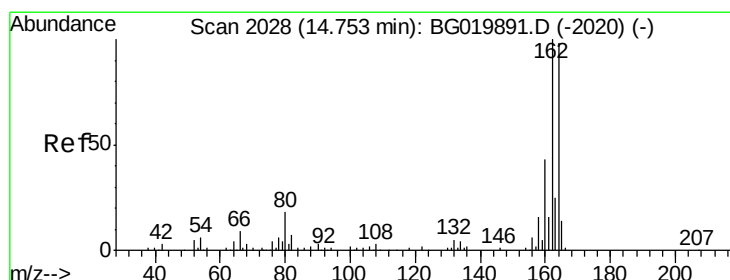
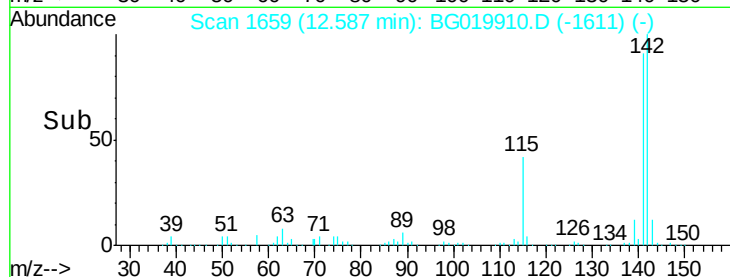
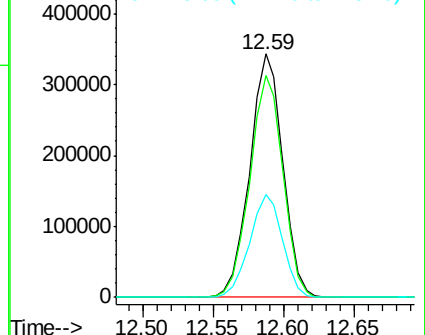
115 42.3 27.4 41.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.75 min Scan# 2027

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

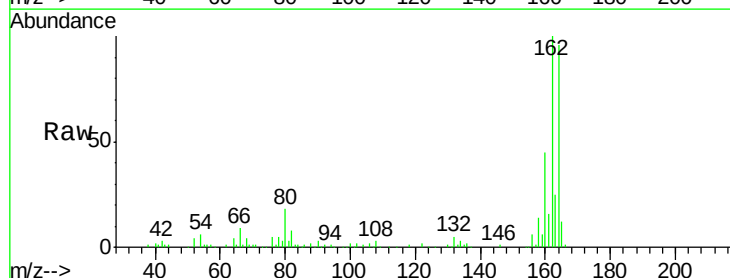
Tgt Ion:164 Resp: 101369

Ion Ratio Lower Upper

164 100

162 104.4 78.8 118.2

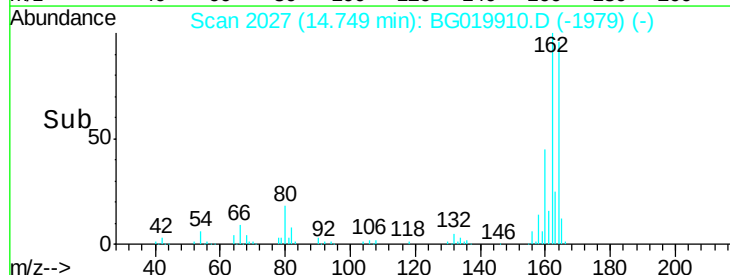
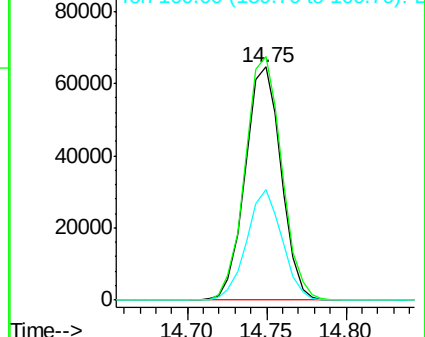
160 47.2 36.4 54.6

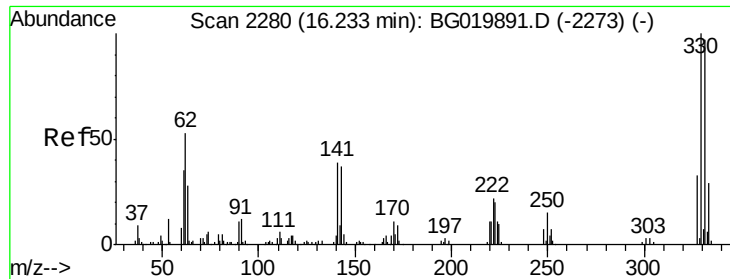


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

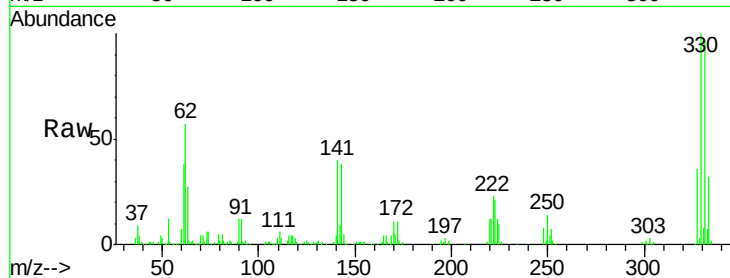




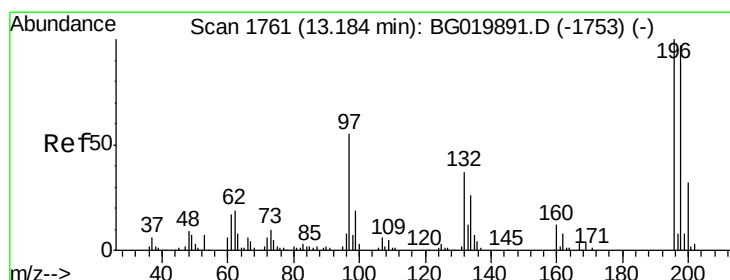
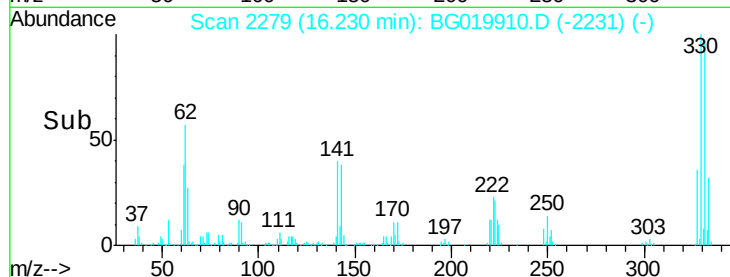
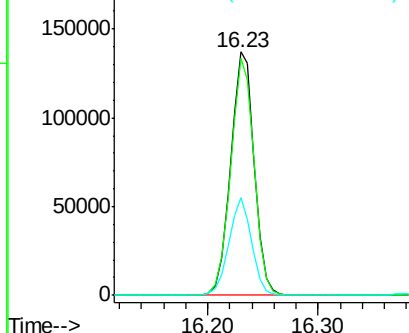
#41  
 2,4,6-Tribromophenol  
 Concen: 131.80 ng  
 RT: 16.23 min Scan# 2279  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

Tgt Ion:330 Resp: 204423  
 Ion Ratio Lower Upper  
 330 100  
 332 97.0 78.1 117.1  
 141 38.5 28.2 42.2

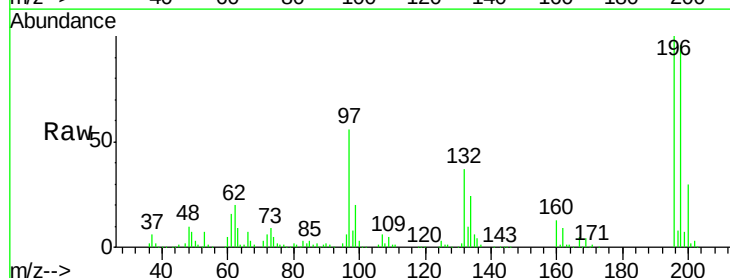


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

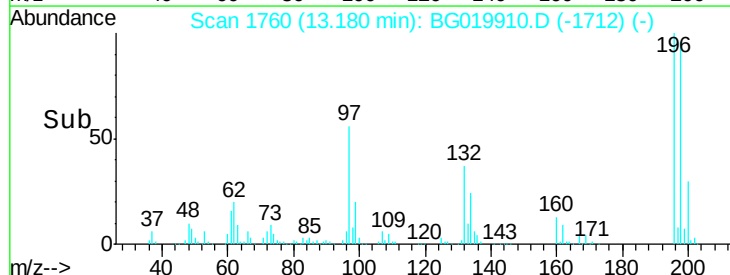
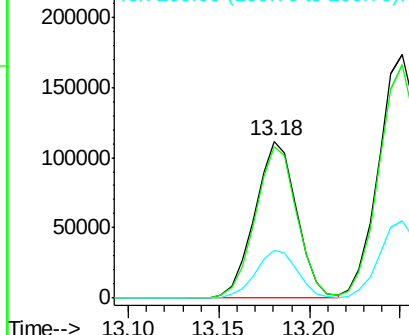


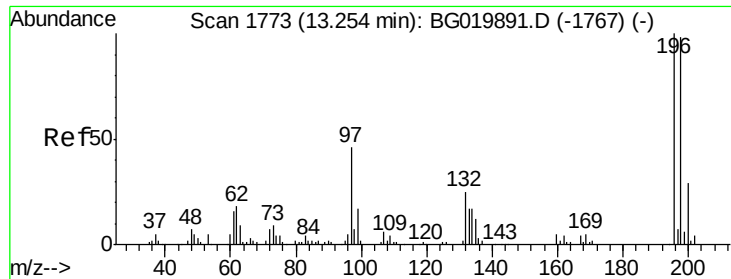
#42  
 2,4,6-Trichlorophenol  
 Concen: 70.69 ng  
 RT: 13.18 min Scan# 1760  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Tgt Ion:196 Resp: 180028  
 Ion Ratio Lower Upper  
 196 100  
 198 96.4 74.7 112.1  
 200 30.3 24.1 36.1



Abundance Ion 196.00 (195.70 to 196.70): E  
 Ion 198.00 (197.70 to 198.70): E  
 Ion 200.00 (199.70 to 200.70): E

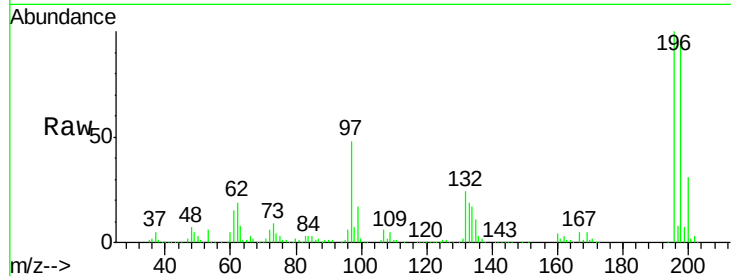




#43  
 2,4,5-Trichlorophenol  
 Concen: 103.01 ng  
 RT: 13.25 min Scan# 1772  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 196     | 100   |       |       |
| 198     | 95.8  | 75.2  | 112.8 |
| 97      | 48.2  | 34.2  | 51.2  |
| 132     | 24.2  | 21.8  | 32.6  |



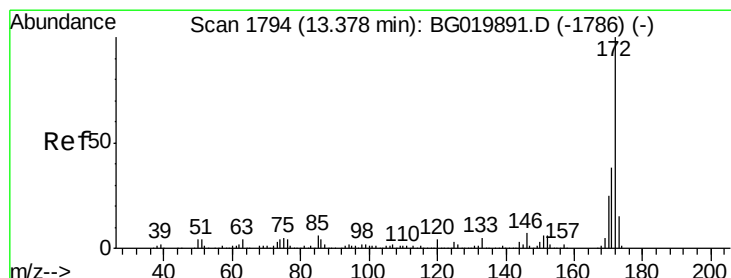
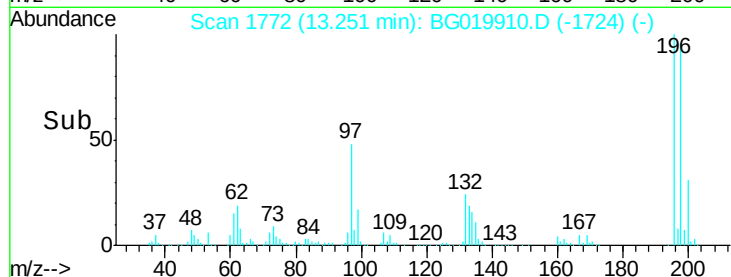
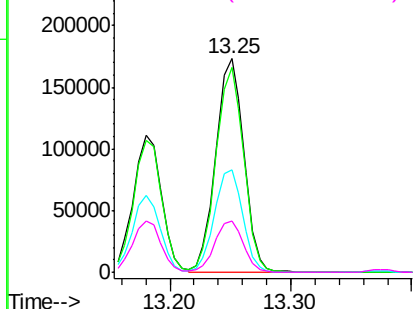
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

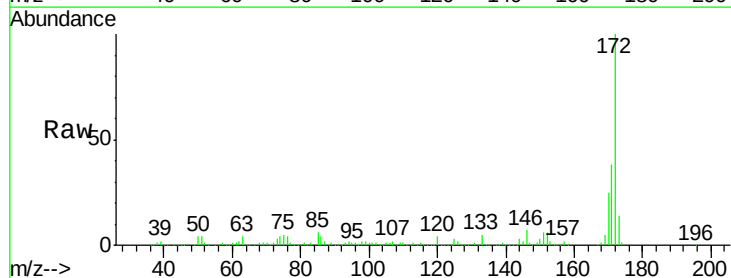
Ion 97.00 (96.70 to 97.70): BGC

Ion 132.00 (131.70 to 132.70): E



#44  
 2-Fluorobiphenyl  
 Concen: 87.64 ng  
 RT: 13.37 min Scan# 1793  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 29.0  | 43.6  |
| 170     | 25.3  | 19.9  | 29.9  |

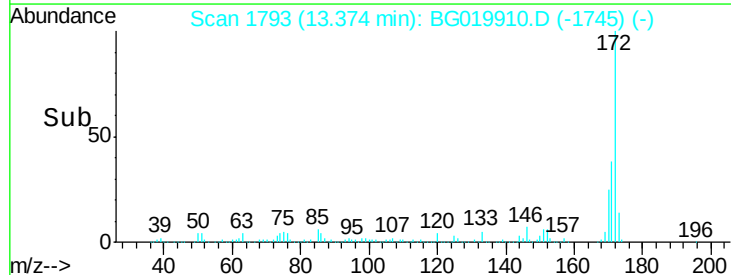
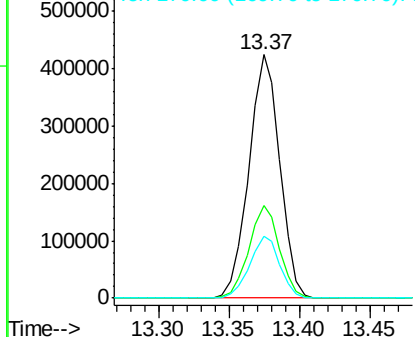


Abundance

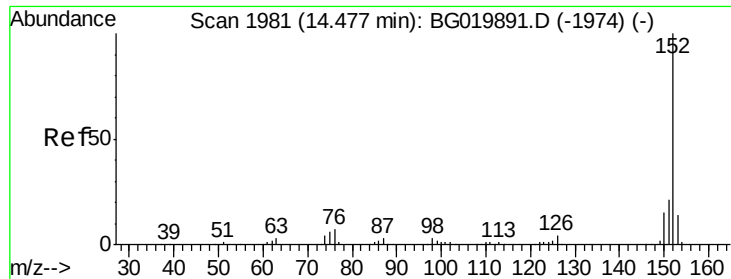
Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E







#48

Acenaphthylene

Concen: 87.17 ng

RT: 14.47 min Scan# 1980

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

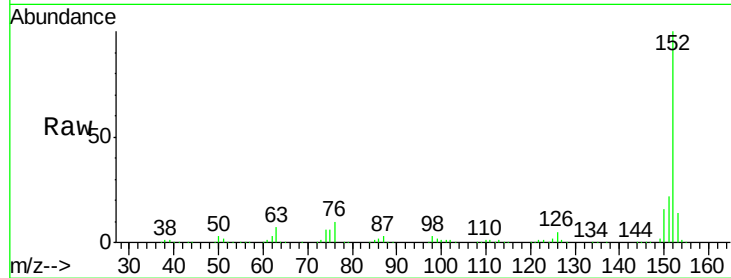
Tgt Ion:152 Resp: 952148

Ion Ratio Lower Upper

152 100

151 21.9 17.0 25.4

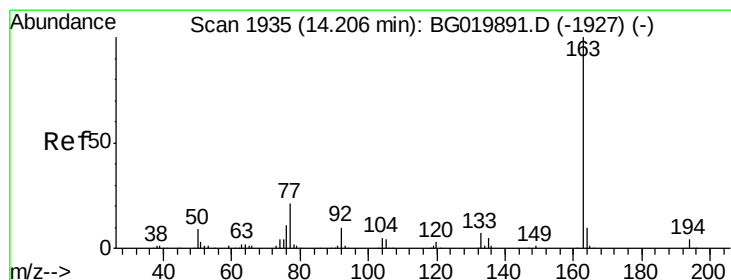
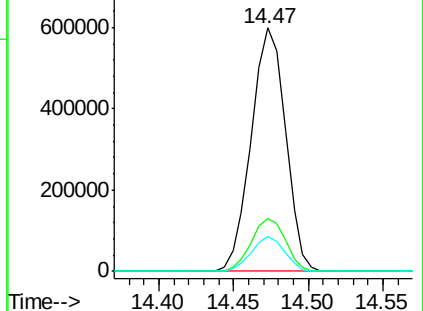
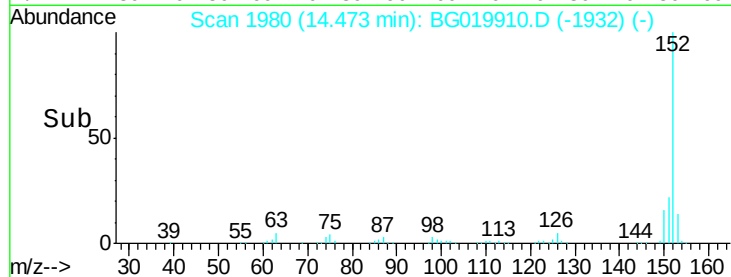
153 14.2 10.4 15.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 151.64 ng

RT: 14.21 min Scan# 1935

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

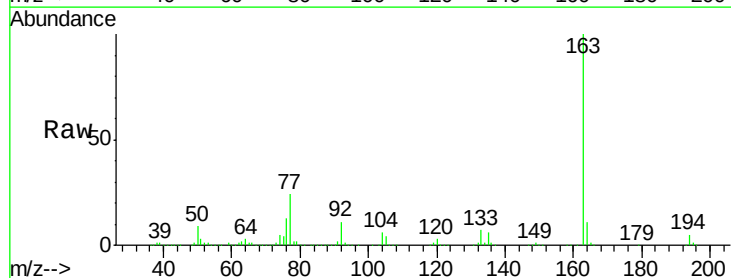
Tgt Ion:163 Resp: 1382742

Ion Ratio Lower Upper

163 100

194 5.0 3.1 4.7#

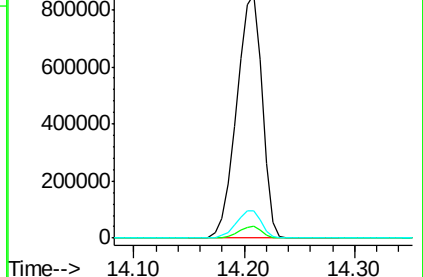
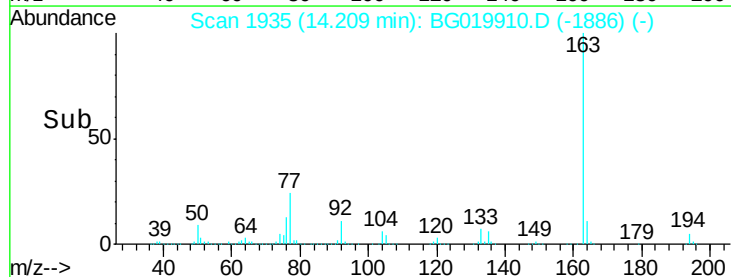
164 11.3 8.8 13.2

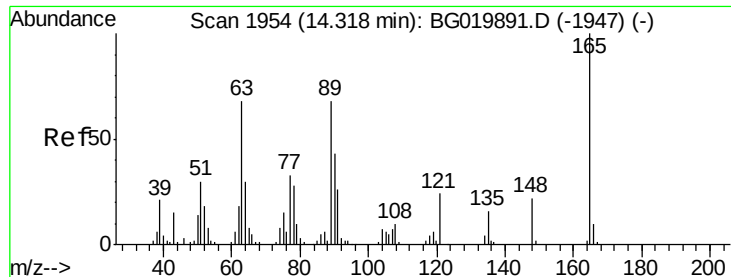


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#50

2,6-Dinitrotoluene

Concen: 9.84 ng

RT: 14.21 min Scan# 1935

Delta R.T. -0.12 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

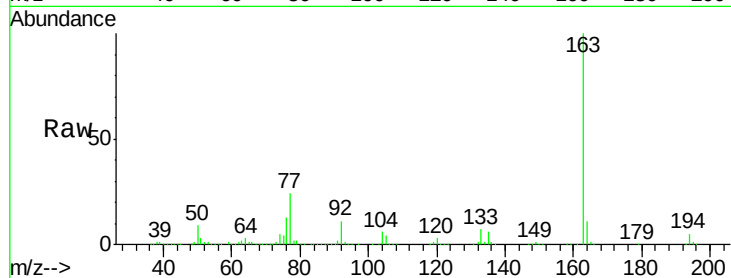
Tgt Ion:165 Resp: 16875

Ion Ratio Lower Upper

165 100

63 157.7 35.7 53.5#

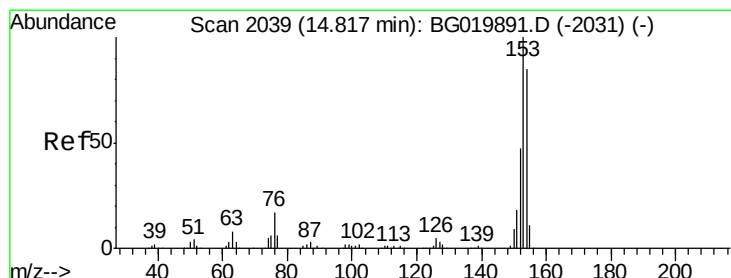
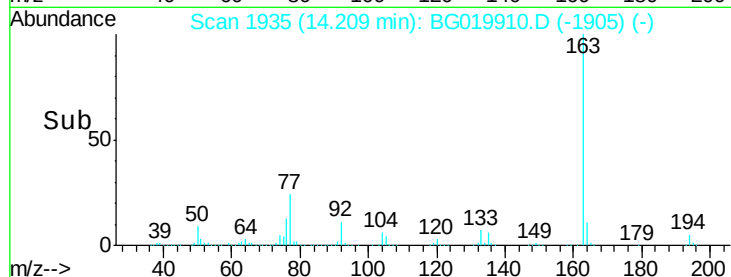
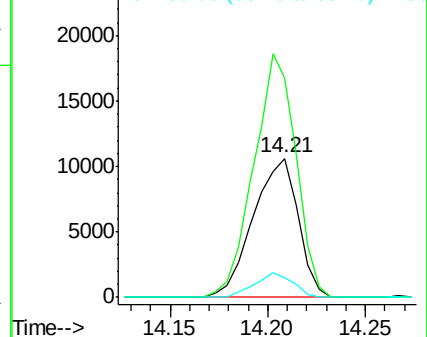
89 14.3 39.7 59.5#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 89.00 (88.70 to 89.70): BGC



#51

Acenaphthene

Concen: 54.60 ng

RT: 14.81 min Scan# 2038

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

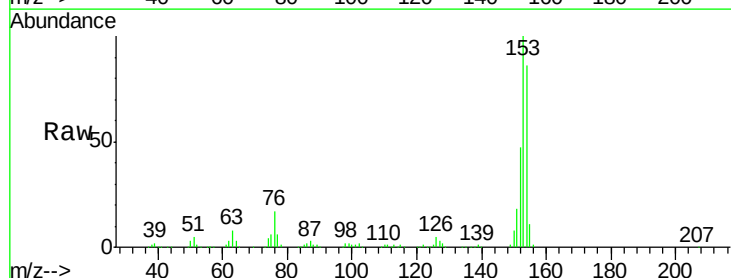
Tgt Ion:154 Resp: 361878

Ion Ratio Lower Upper

154 100

153 116.8 92.9 139.3

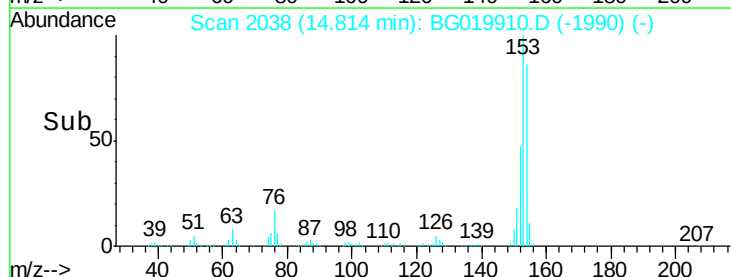
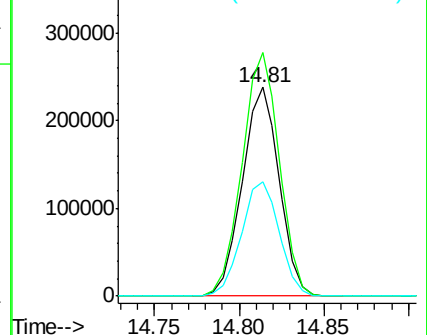
152 55.1 45.8 68.8

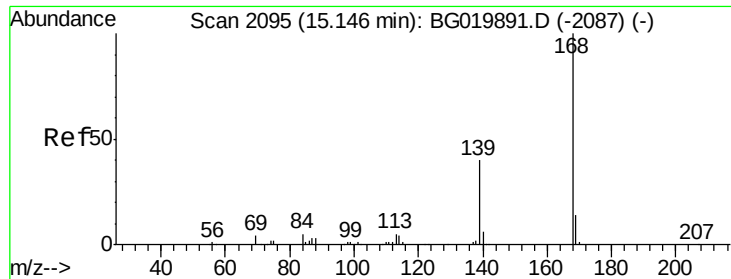


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 160.46 ng

RT: 15.15 min Scan# 2095

Delta R.T. -0.01 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

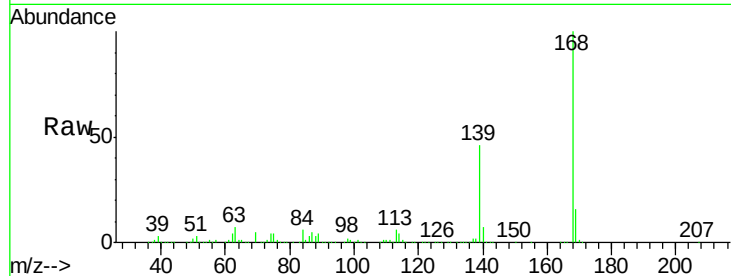
Tgt Ion:168 Resp: 1582087

Ion Ratio Lower Upper

168 100

139 45.5 27.4 41.0#

169 16.0 11.0 16.4

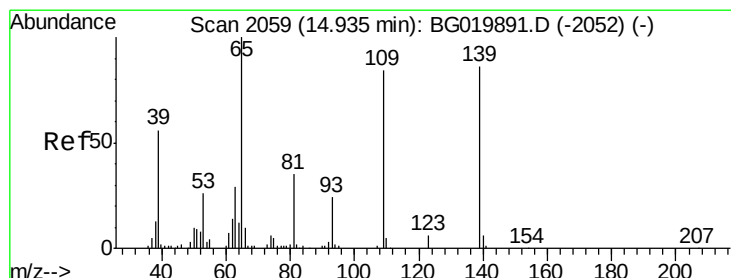
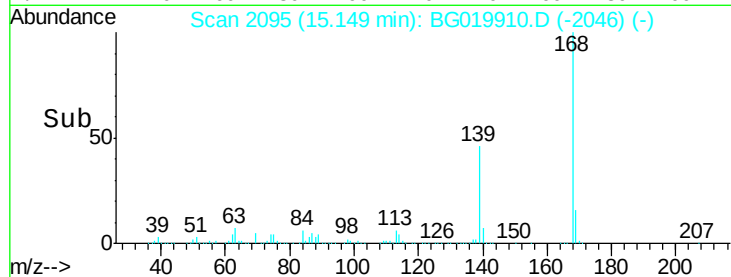
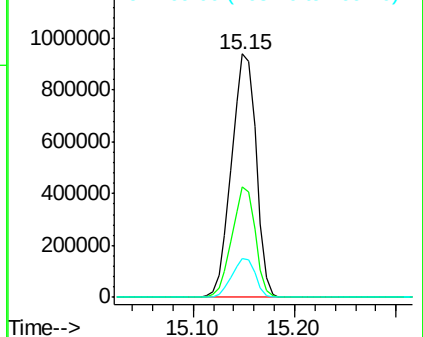


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 122.76 ng

RT: 14.95 min Scan# 2061

Delta R.T. 0.00 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

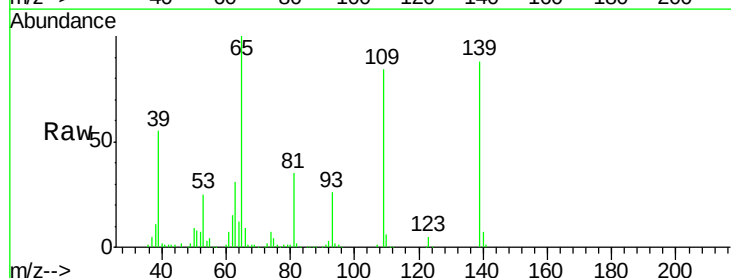
Tgt Ion:139 Resp: 190432

Ion Ratio Lower Upper

139 100

109 95.4 43.2 83.2#

65 113.3 67.8 107.8#

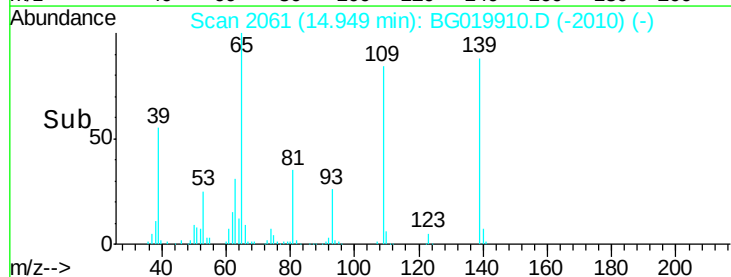
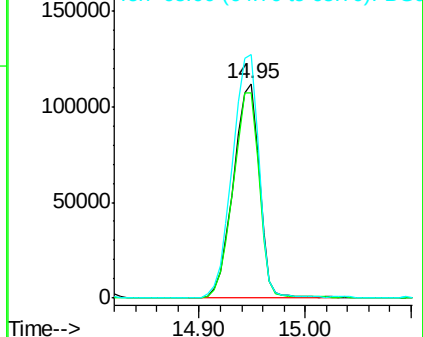


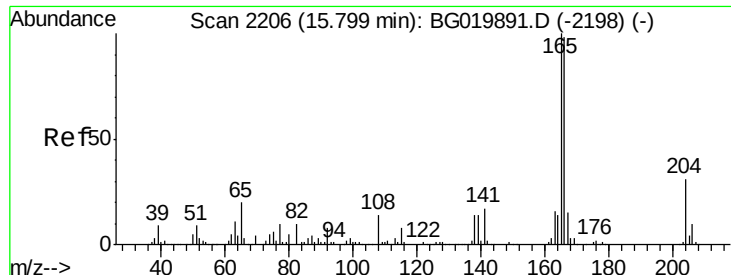
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BGO

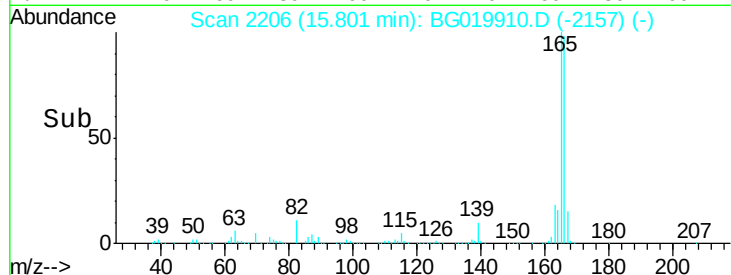
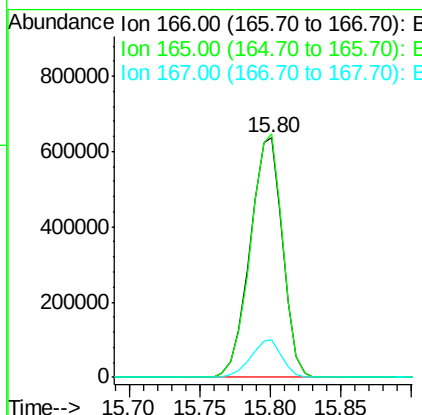
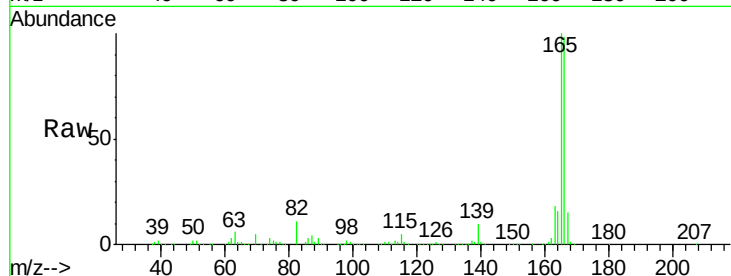




#57  
 Fluorene  
 Concen: 116.11 ng  
 RT: 15.80 min Scan# 2206  
 Delta R.T. -0.01 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

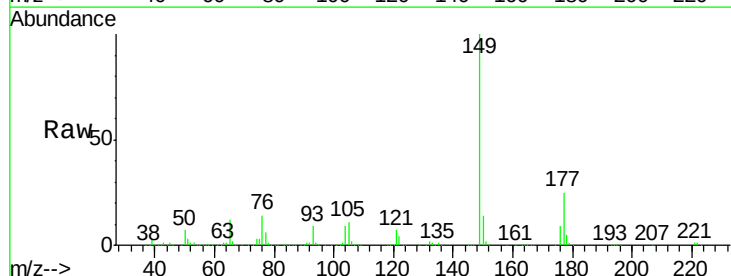
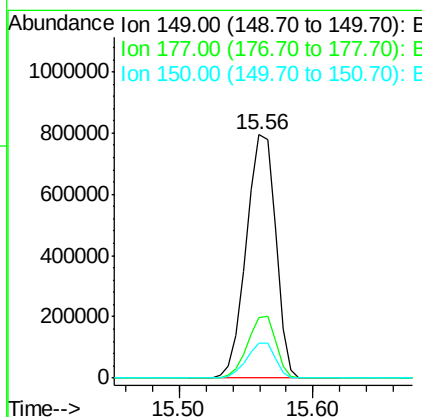
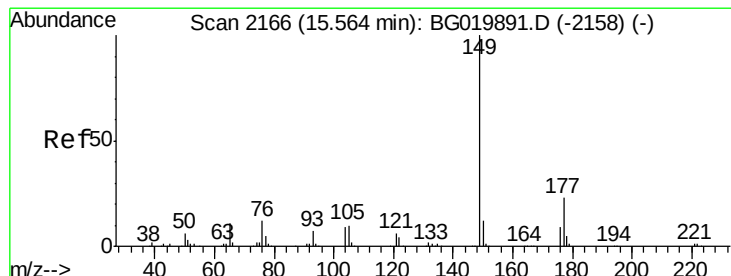
Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

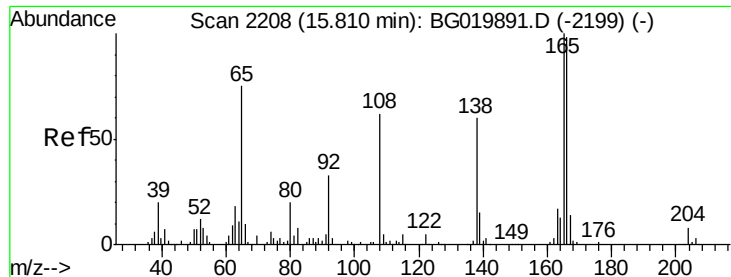
Tgt Ion:166 Resp: 1024640  
 Ion Ratio Lower Upper  
 166 100  
 165 101.7 80.0 120.0  
 167 15.5 11.1 16.7



#59  
 Diethylphthalate  
 Concen: 121.65 ng  
 RT: 15.56 min Scan# 2165  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Tgt Ion:149 Resp: 1200563  
 Ion Ratio Lower Upper  
 149 100  
 177 25.0 19.6 29.4  
 150 14.3 10.2 15.2

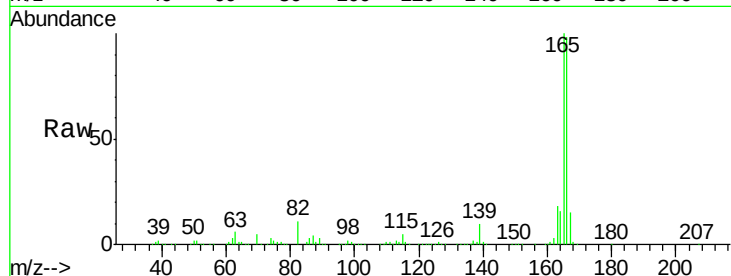




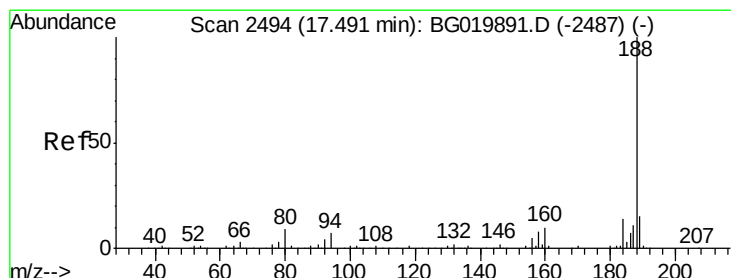
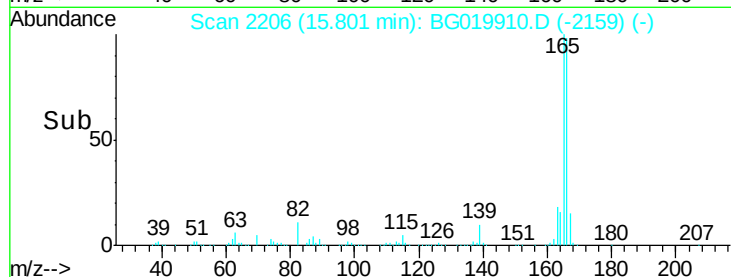
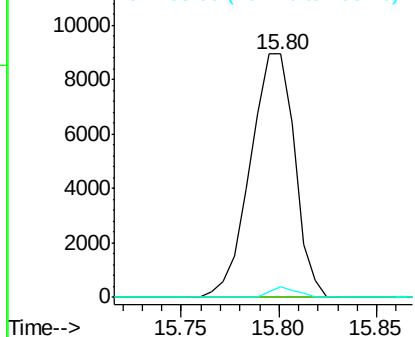
#61  
4-Nitroaniline  
Concen: 7.02 ng  
RT: 15.80 min Scan# 2206  
Delta R.T. -0.02 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

Tgt Ion:138 Resp: 14054  
Ion Ratio Lower Upper  
138 100  
92 0.0 29.1 69.1#  
108 4.2 49.8 89.8#

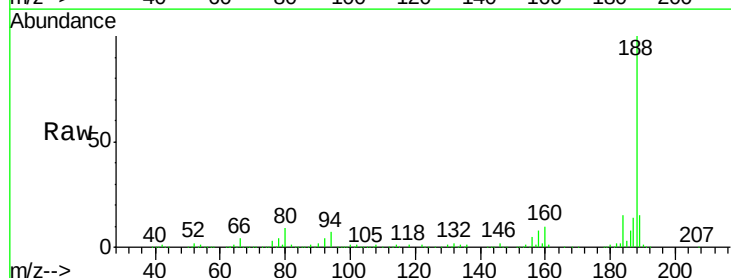


Abundance Ion 138.00 (137.70 to 138.70): E  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 108.00 (107.70 to 108.70): E

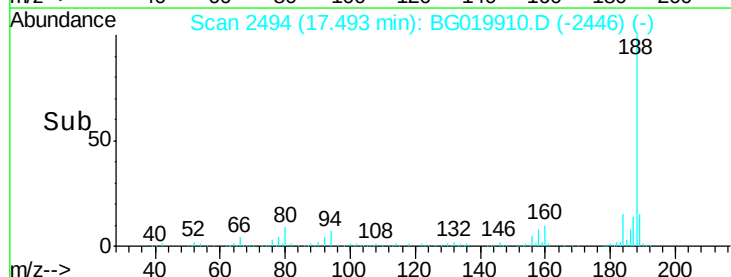
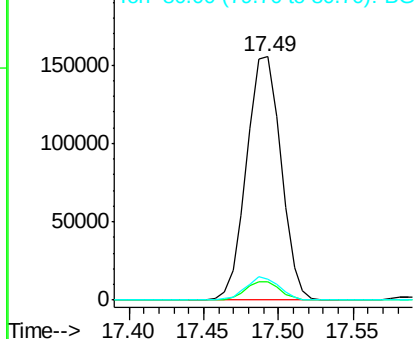


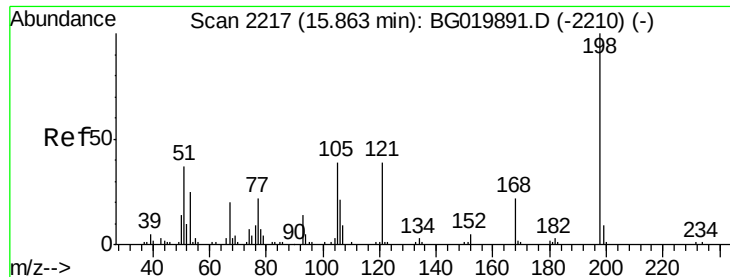
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.49 min Scan# 2494  
Delta R.T. -0.02 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:188 Resp: 247462  
Ion Ratio Lower Upper  
188 100  
94 7.4 7.7 11.5#  
80 8.8 7.8 11.8



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

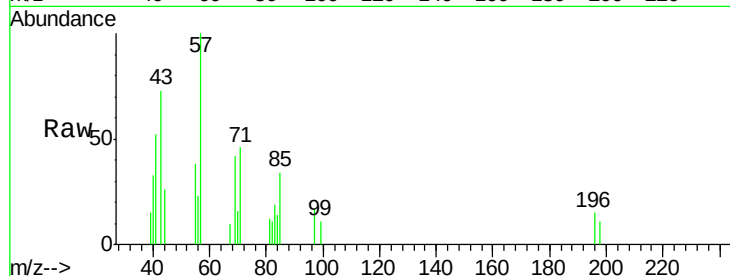




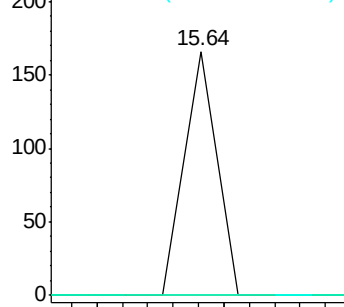
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 6.14 ng  
 RT: 15.64 min Scan# 2178  
 Delta R.T. -0.24 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

Instrument :  
 BNA\_G  
 ClientSampleId :  
 PT-BNA-SOIL

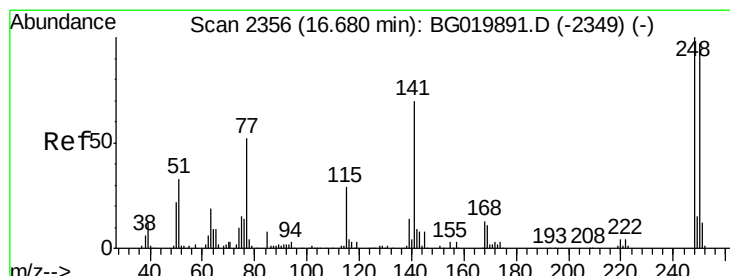
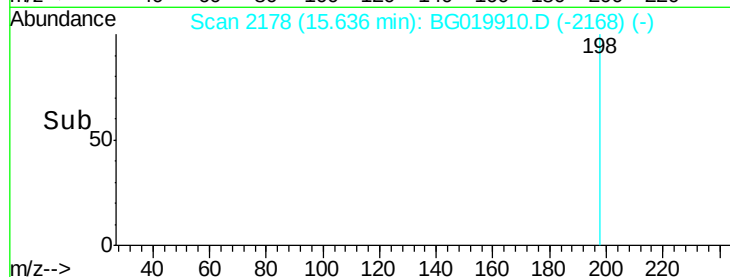
Tgt Ion:198 Resp: 59  
 Ion Ratio Lower Upper  
 198 100  
 51 0.0 14.2 54.2#  
 105 0.0 21.1 61.1#



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

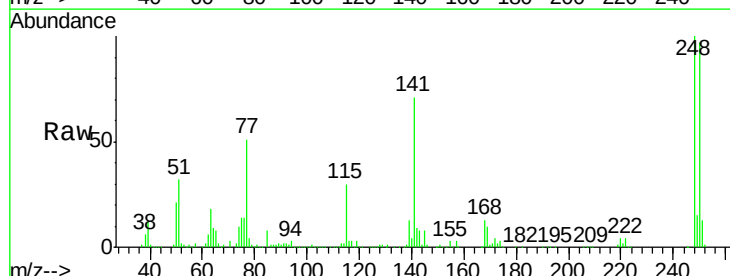


Time-->

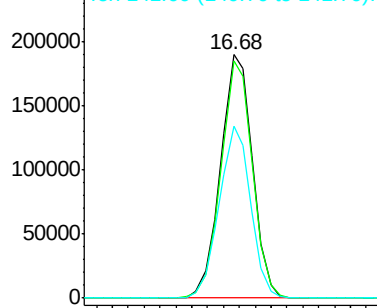


#66  
 4-Bromophenyl-phenylether  
 Concen: 86.15 ng  
 RT: 16.68 min Scan# 2355  
 Delta R.T. -0.02 min  
 Lab File: BG019910.D  
 Acq: 4 Dec 2015 18:23

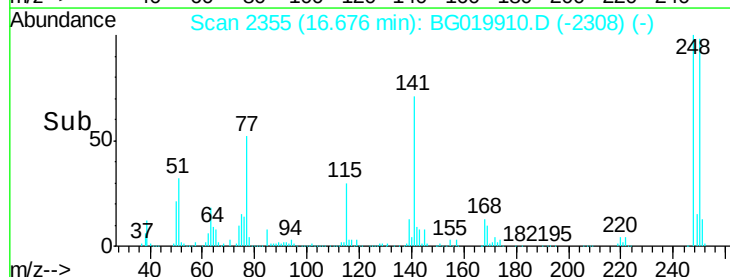
Tgt Ion:248 Resp: 264908  
 Ion Ratio Lower Upper  
 248 100  
 250 97.5 77.8 116.8  
 141 70.8 50.4 75.6

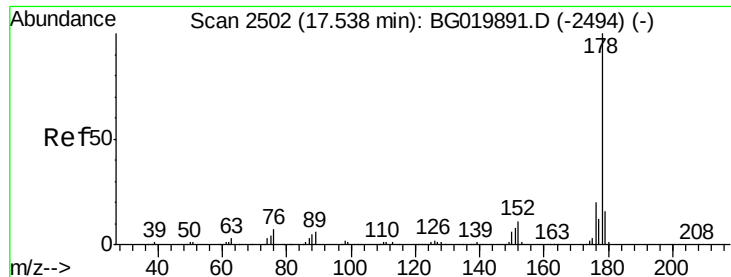


Abundance Ion 248.00 (247.70 to 248.70): E  
 Ion 250.00 (249.70 to 250.70): E  
 Ion 141.00 (140.70 to 141.70): E



Time-->

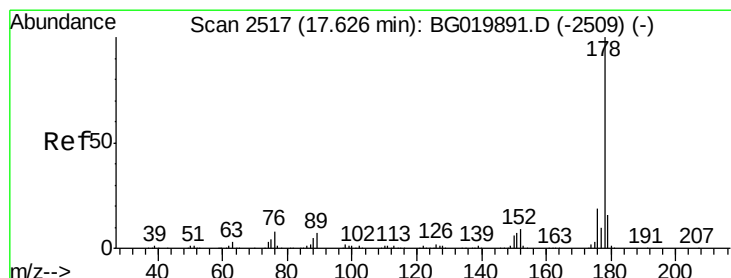
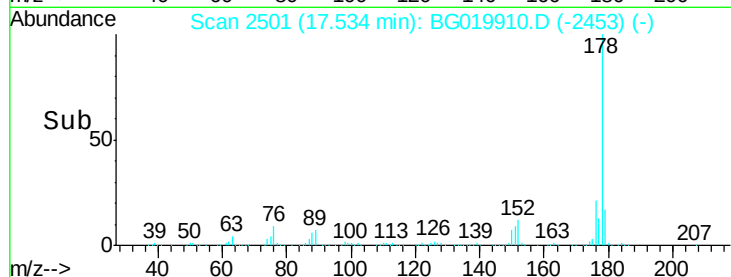
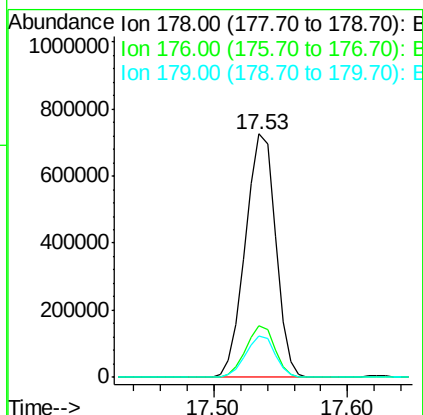
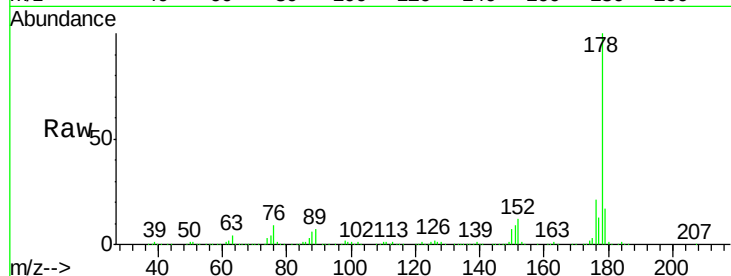




#70  
Phenanthrene  
Concen: 80.97 ng  
RT: 17.53 min Scan# 2501  
Delta R.T. -0.02 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

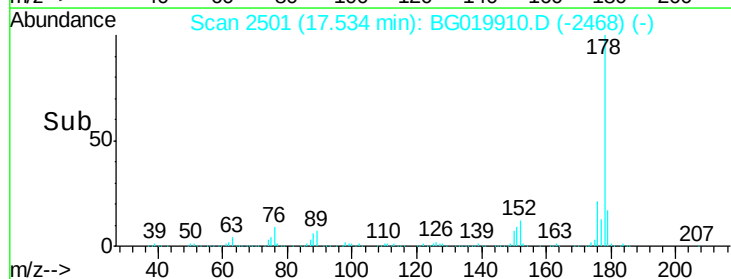
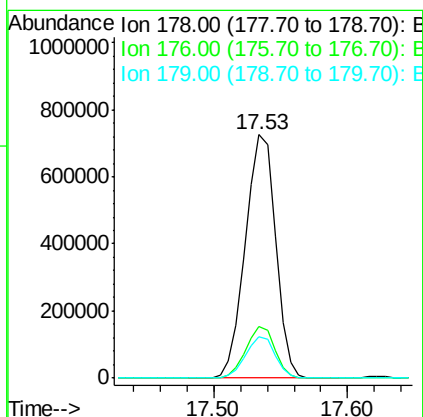
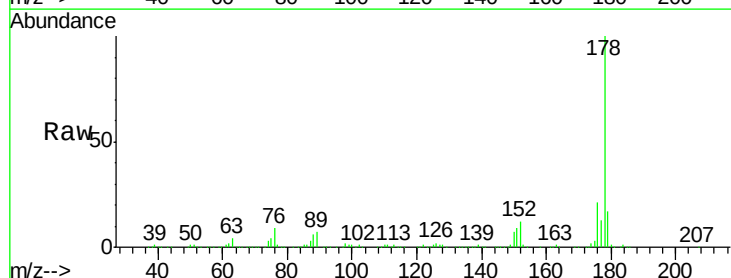
Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

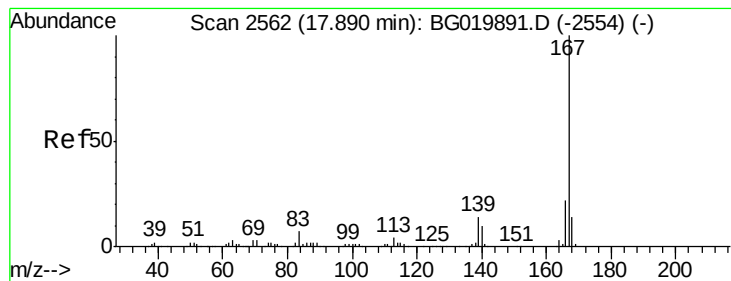
Tgt Ion:178 Resp: 1133600  
Ion Ratio Lower Upper  
178 100  
176 21.0 16.7 25.1  
179 17.1 13.9 20.9



#71  
Anthracene  
Concen: 79.49 ng  
RT: 17.53 min Scan# 2501  
Delta R.T. -0.10 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:178 Resp: 1133600  
Ion Ratio Lower Upper  
178 100  
176 21.0 16.8 25.2  
179 17.1 13.9 20.9





#72

Carbazole

Concen: 22.89 ng

RT: 17.89 min Scan# 2561

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

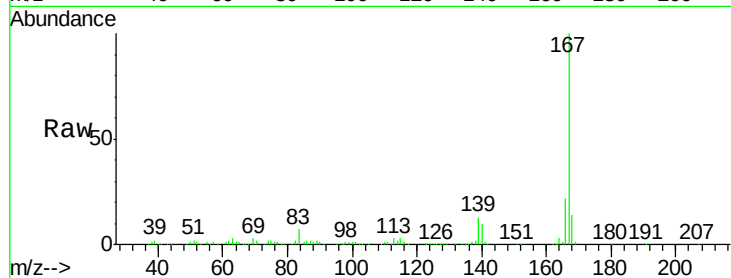
Tgt Ion:167 Resp: 287621

Ion Ratio Lower Upper

167 100

166 21.9 19.0 28.6

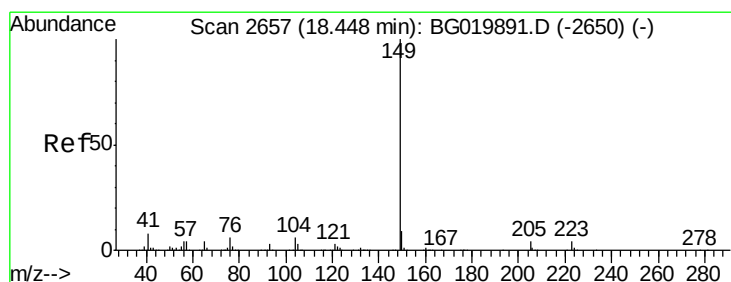
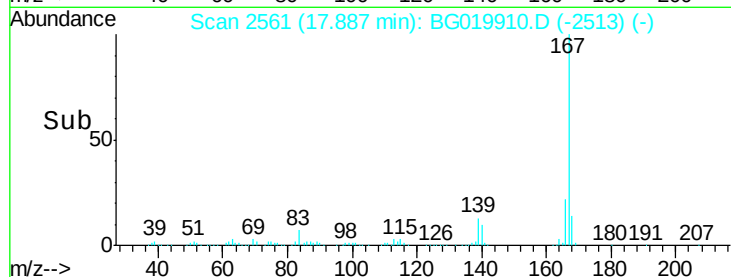
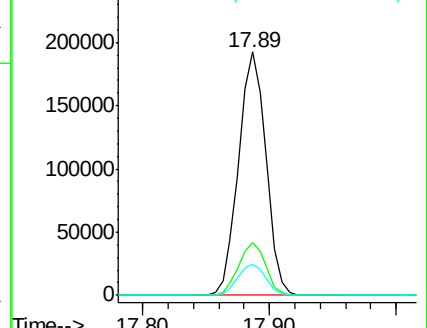
139 12.6 10.2 15.4



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 40.92 ng

RT: 18.44 min Scan# 2656

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

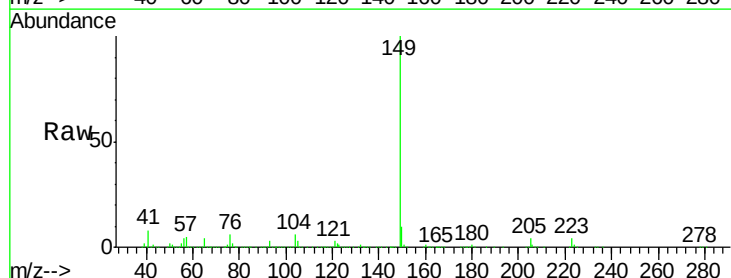
Tgt Ion:149 Resp: 630091

Ion Ratio Lower Upper

149 100

150 9.8 8.2 12.4

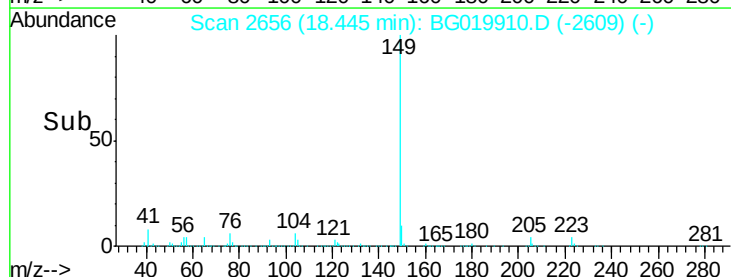
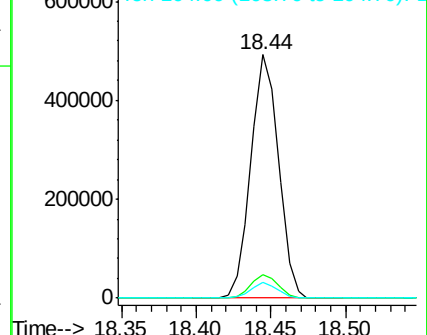
104 6.3 4.4 6.6



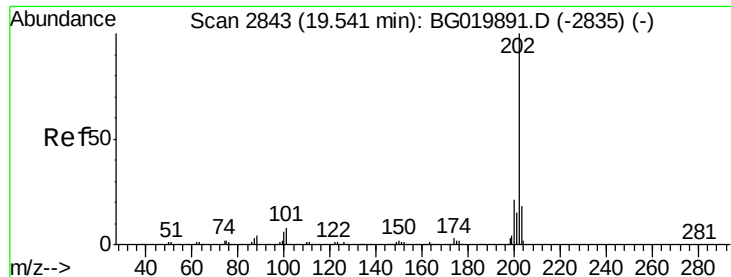
Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E







#74

Fluoranthene

Concen: 76.75 ng

RT: 19.54 min Scan# 2842

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

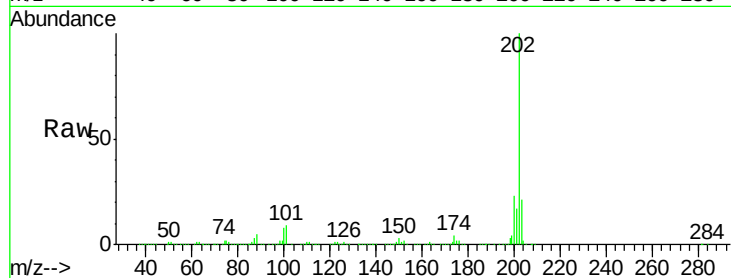
Tgt Ion:202 Resp: 1374462

Ion Ratio Lower Upper

202 100

101 9.4 0.0 32.4

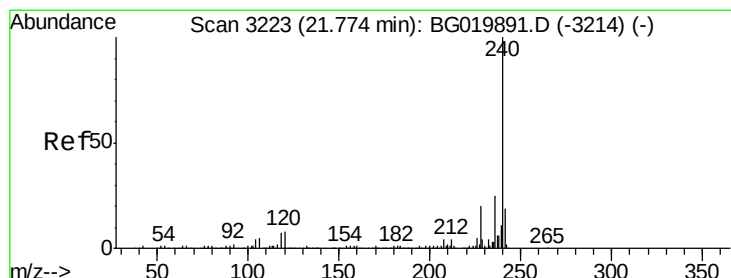
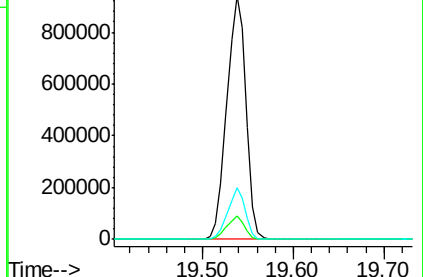
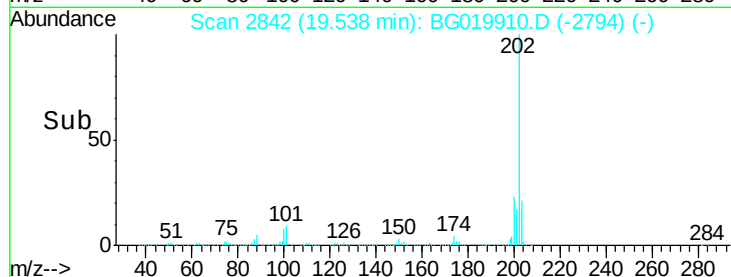
203 21.0 0.0 39.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.77 min Scan# 3222

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

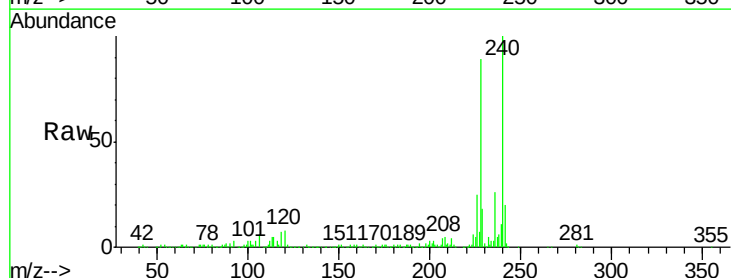
Tgt Ion:240 Resp: 288853

Ion Ratio Lower Upper

240 100

120 7.7 7.4 11.0

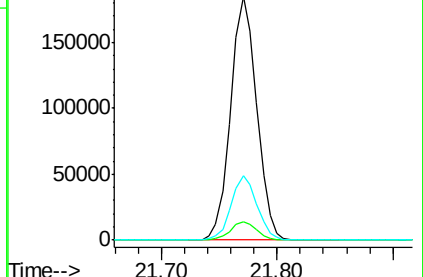
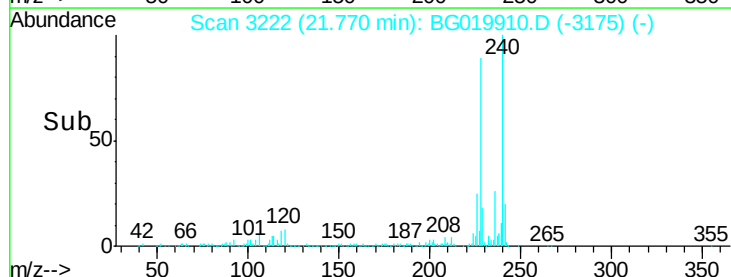
236 26.4 20.7 31.1

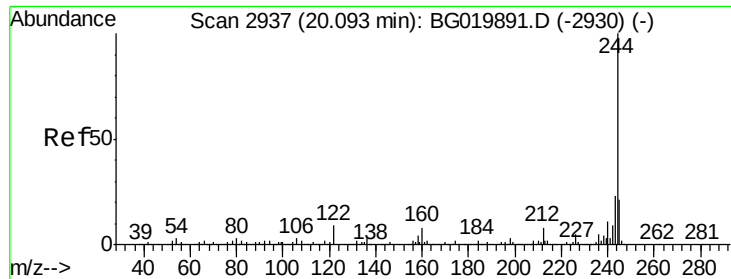


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Terphenyl-d14

Concen: 90.45 ng

RT: 20.09 min Scan# 2936

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

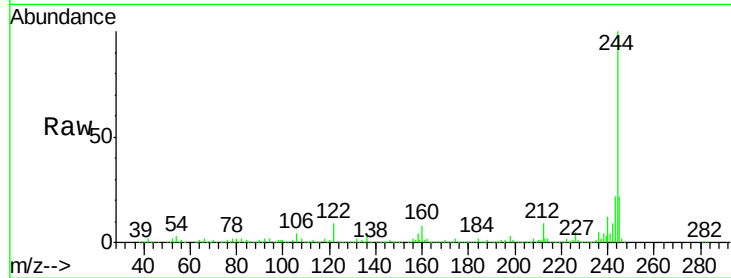
Tgt Ion:244 Resp: 1071084

Ion Ratio Lower Upper

244 100

212 8.6 6.9 10.3

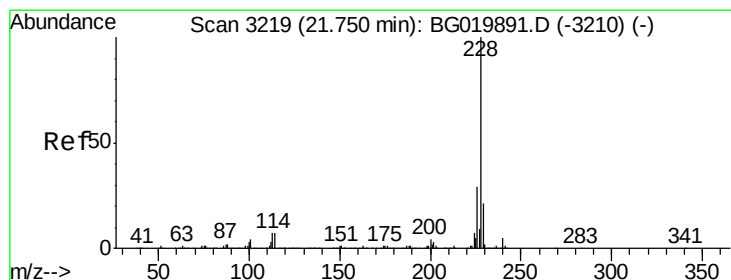
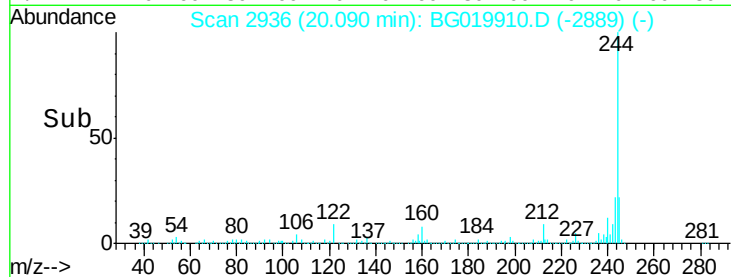
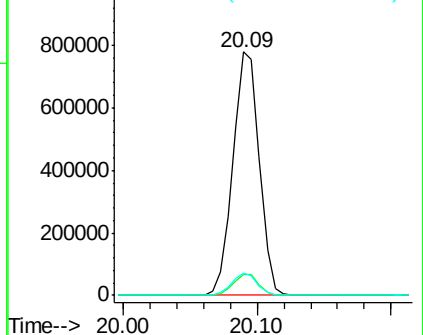
122 9.1 10.2 15.2#



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



#80

Benzo(a)anthracene

Concen: 86.45 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

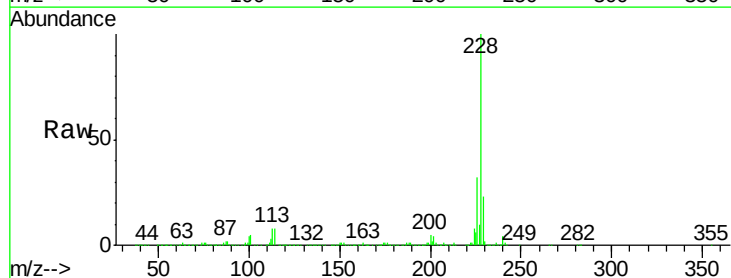
Tgt Ion:228 Resp: 1528536

Ion Ratio Lower Upper

228 100

226 31.6 23.4 35.0

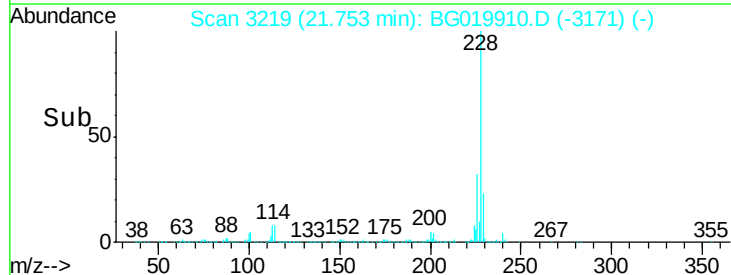
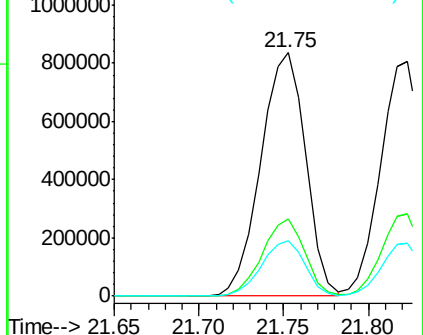
229 22.6 16.6 25.0

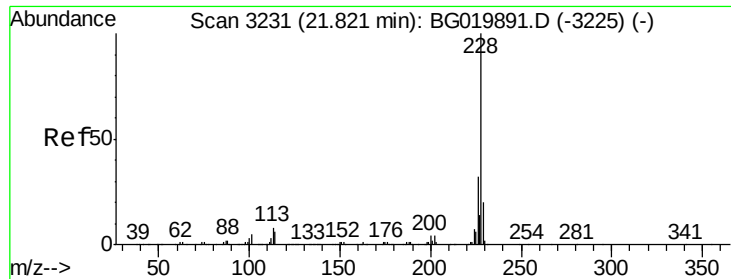


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 82.10 ng

RT: 21.82 min Scan# 3231

Delta R.T. -0.02 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

Instrument :

BNA\_G

ClientSampleId :

PT-BNA-SOIL

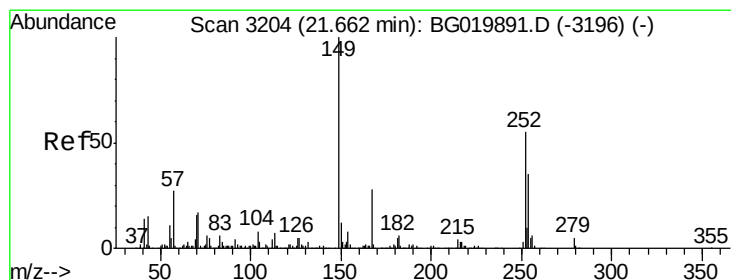
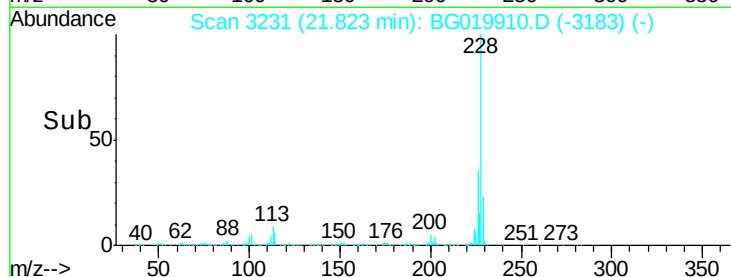
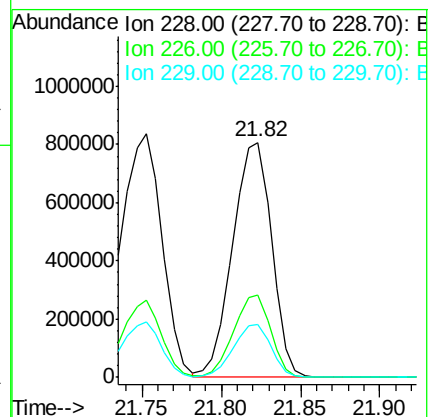
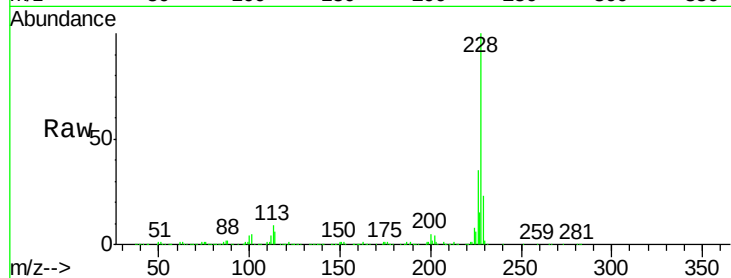
Tgt Ion:228 Resp: 1378274

Ion Ratio Lower Upper

228 100

226 35.0 26.7 40.1

229 22.7 17.0 25.6



#83

Bis(2-ethylhexyl)phthalate

Concen: 99.07 ng

RT: 21.66 min Scan# 3203

Delta R.T. -0.03 min

Lab File: BG019910.D

Acq: 4 Dec 2015 18:23

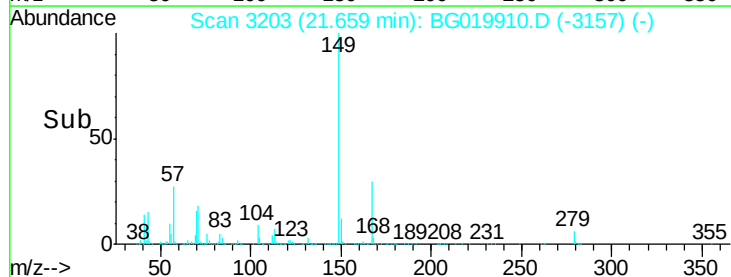
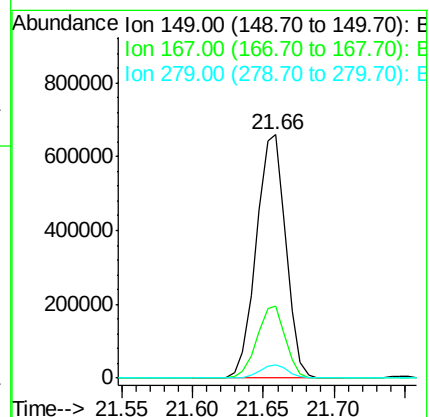
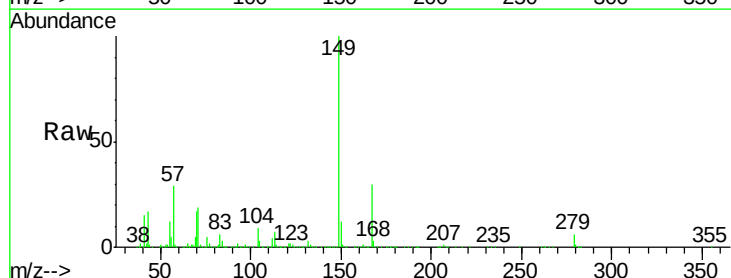
Tgt Ion:149 Resp: 968395

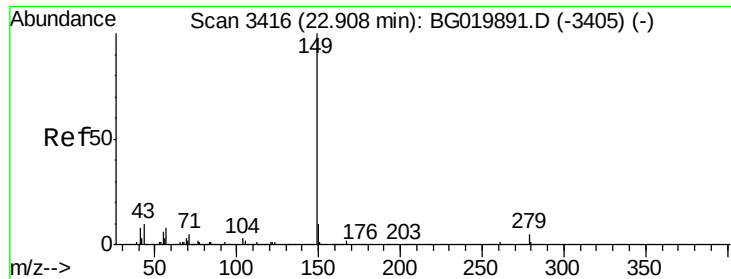
Ion Ratio Lower Upper

149 100

167 29.8 23.8 35.8

279 5.6 3.4 5.2#

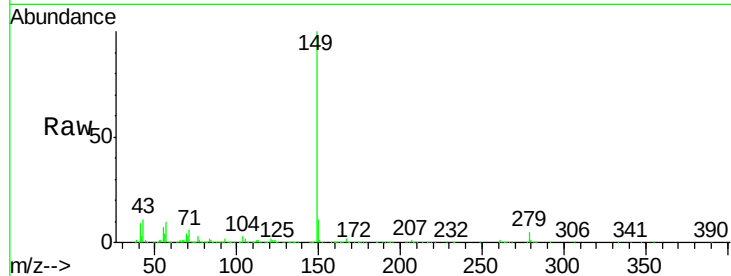




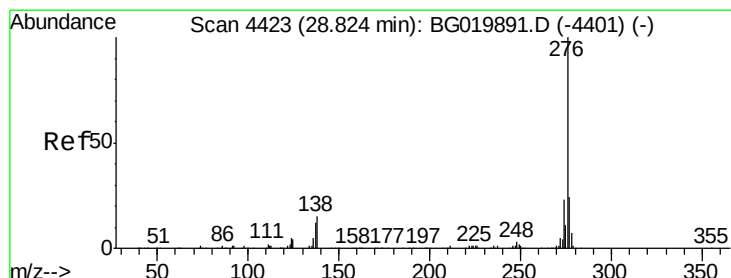
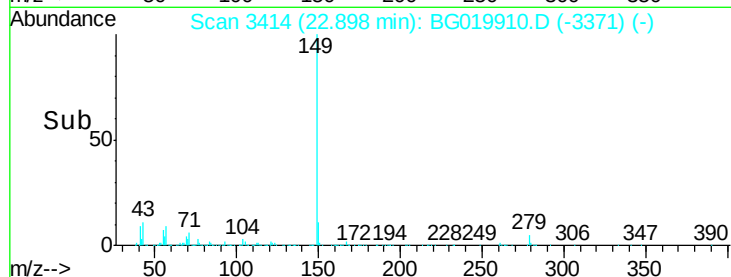
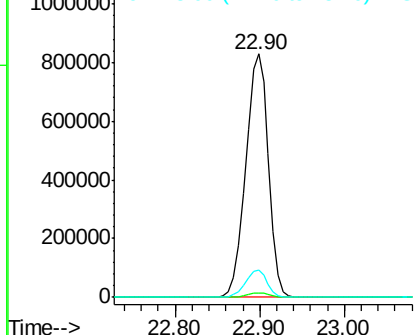
#84  
Di-n-octyl phthalate  
Concen: 96.54 ng  
RT: 22.90 min Scan# 3414  
Delta R.T. -0.05 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

Tgt Ion:149 Resp: 1534216  
Ion Ratio Lower Upper  
149 100  
167 1.8 1.2 1.8  
43 10.7 5.9 8.9#

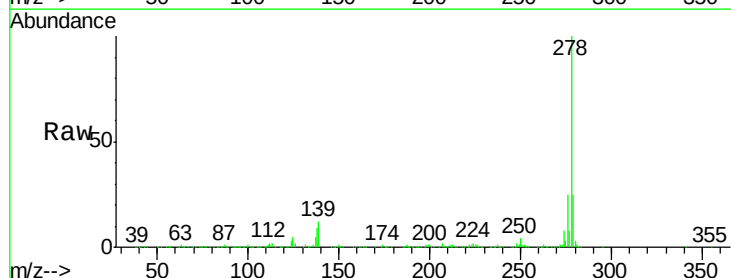


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 43.00 (42.70 to 43.70): BGC

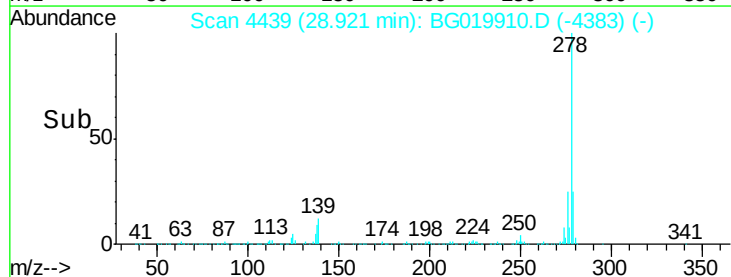
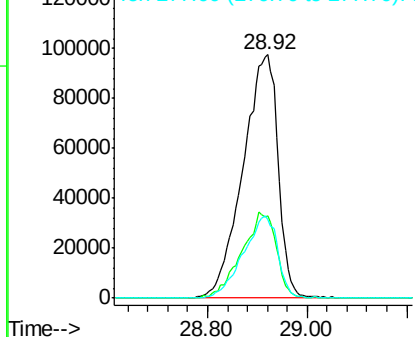


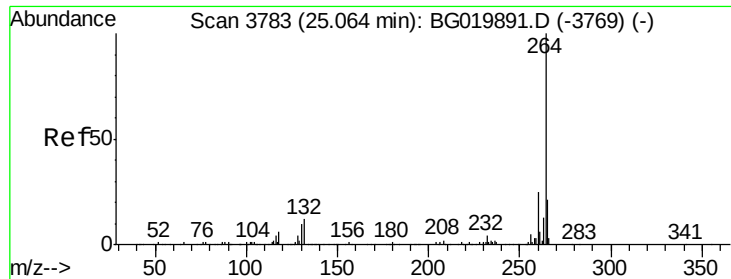
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 25.83 ng  
RT: 28.92 min Scan# 4439  
Delta R.T. 0.03 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:276 Resp: 477727  
Ion Ratio Lower Upper  
276 100  
138 34.8 0.0 0.0#  
277 32.9 0.0 0.0#



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

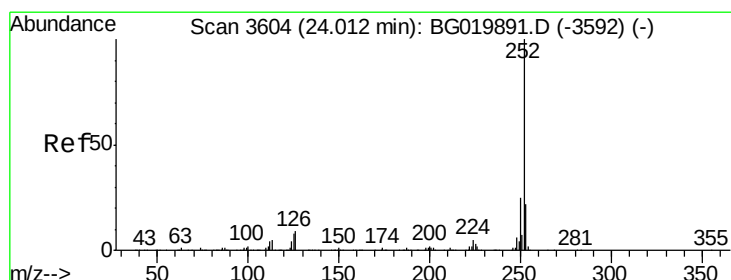
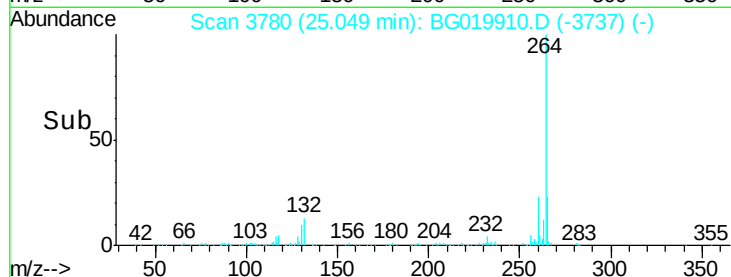
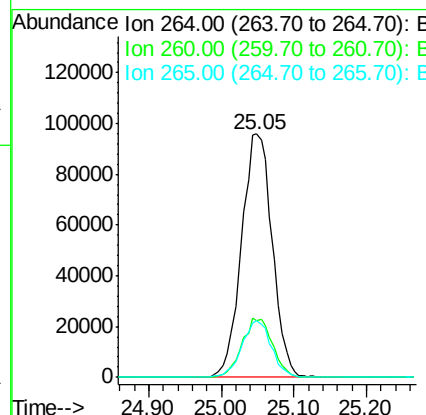
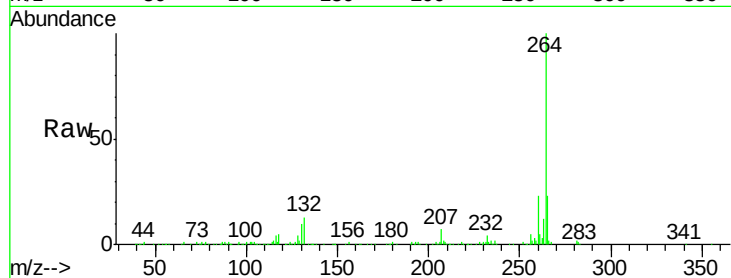




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.05 min Scan# 3780  
Delta R.T. -0.05 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

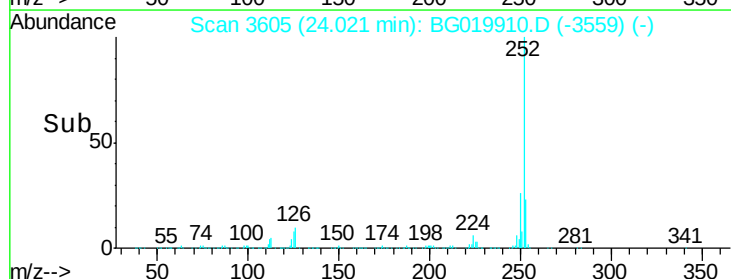
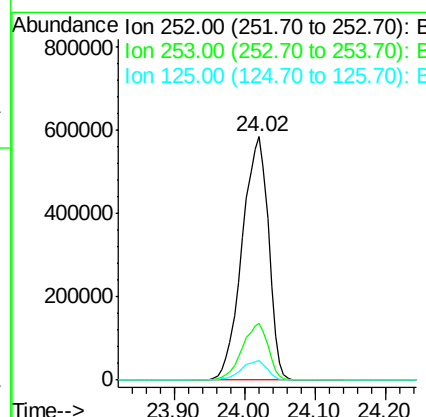
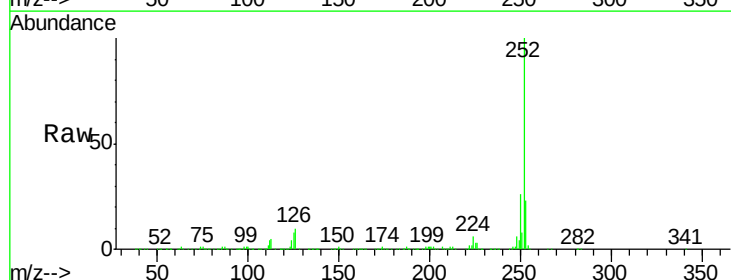
Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

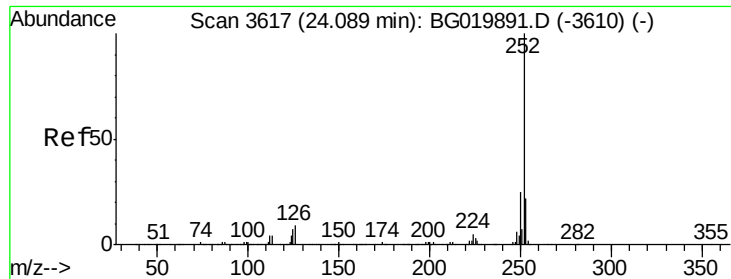
Tgt Ion:264 Resp: 281835  
Ion Ratio Lower Upper  
264 100  
260 23.2 18.5 27.7  
265 23.3 17.2 25.8



#87  
Benzo(b)fluoranthene  
Concen: 84.73 ng  
RT: 24.02 min Scan# 3605  
Delta R.T. -0.03 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:252 Resp: 1513508  
Ion Ratio Lower Upper  
252 100  
253 23.3 19.1 28.7  
125 8.1 8.9 13.3#

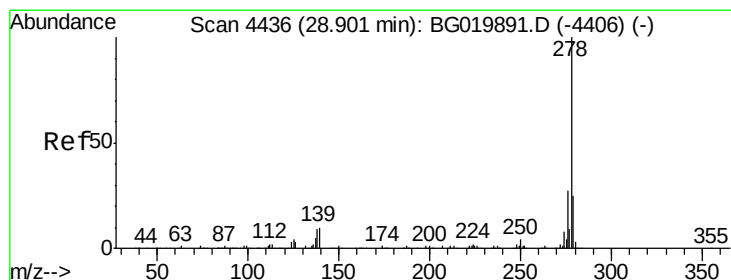
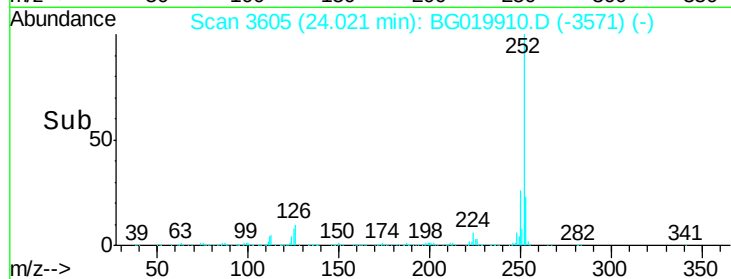
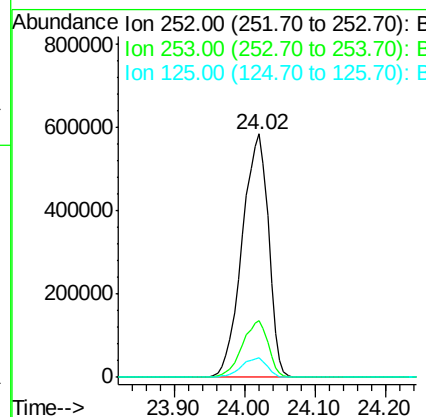
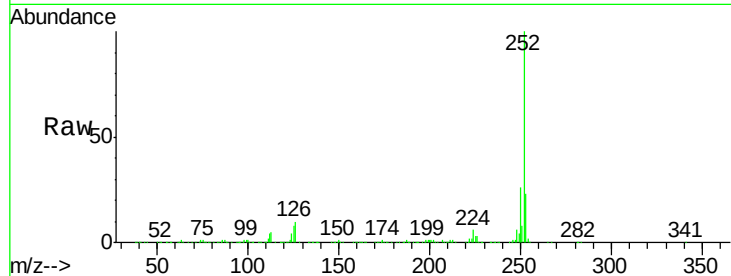




#88  
Benzo(k)fluoranthene  
Concen: 85.56 ng  
RT: 24.02 min Scan# 3605  
Delta R.T. -0.10 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Instrument :  
BNA\_G  
ClientSampleId :  
PT-BNA-SOIL

Tgt Ion:252 Resp: 1513508  
Ion Ratio Lower Upper  
252 100  
253 23.3 19.0 28.4  
125 8.1 8.9 13.3#



#90  
Dibenzo(a,h)anthracene  
Concen: 114.40 ng  
RT: 28.92 min Scan# 4439  
Delta R.T. -0.03 min  
Lab File: BG019910.D  
Acq: 4 Dec 2015 18:23

Tgt Ion:278 Resp: 1916737  
Ion Ratio Lower Upper  
278 100  
139 11.9 13.8 20.6#  
279 24.9 19.4 29.0

