

Data Path : Z:\HPCHEM1\BNA G\DATA\BG021916\  
 Data File : BG020974.D  
 Acq On : 19 Feb 2016 16:18  
 Operator : SJ/UM  
 Sample : H1468-01MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

Manual Integrations  
 APPROVED

UMANGI  
 2/22/2016 10:55:24 AM

Quant Time: Feb 19 17:37:58 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Feb 11 15:26:53 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.26  | 152  | 20543    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.08 | 136  | 102975   | 20.00 | ng    | -0.01    |
| 38) Acenaphthene-d10      | 14.87 | 164  | 64647    | 20.00 | ng    | -0.01    |
| 63) Phenanthrene-d10      | 17.61 | 188  | 135116   | 20.00 | ng    | -0.01    |
| 75) Chrysene-d12          | 21.89 | 240  | 127144   | 20.00 | ng    | -0.02    |
| 86) Perylene-d12          | 25.25 | 264  | 118559   | 20.00 | ng    | -0.04    |

## System Monitoring Compounds

|                          |       |     |        |        |    |       |
|--------------------------|-------|-----|--------|--------|----|-------|
| 5) 2-Fluorophenol        | 5.79  | 112 | 166874 | 136.80 | ng | 0.00  |
| 7) Phenol-d6             | 7.41  | 99  | 230382 | 129.21 | ng | 0.00  |
| 23) Nitrobenzene-d5      | 9.43  | 82  | 139333 | 88.97  | ng | -0.01 |
| 41) 2,4,6-Tribromophenol | 16.35 | 330 | 102519 | 161.26 | ng | 0.00  |
| 44) 2-Fluorobiphenyl     | 13.50 | 172 | 390959 | 84.95  | ng | -0.01 |
| 78) Terphenyl-d14        | 20.18 | 244 | 518558 | 95.15  | ng | -0.02 |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.64  | 88  | 14374  | 32.41 | ng | # 89   |
| 3) Pyridine                    | 4.05  | 79  | 64042  | 48.81 | ng | 97     |
| 4) n-Nitrosodimethylamine      | 3.95  | 42  | 14624  | 42.61 | ng | 97     |
| 6) Aniline                     | 7.58  | 93  | 40397  | 18.17 | ng | 99     |
| 8) 2-Chlorophenol              | 7.82  | 128 | 65207  | 42.79 | ng | 96     |
| 9) Benzaldehyde                | 7.39  | 77  | 7713m  | 8.64  | ng |        |
| 10) Phenol                     | 7.43  | 94  | 79363  | 42.06 | ng | 98     |
| 11) bis(2-Chloroethyl)ether    | 7.67  | 93  | 60312  | 40.02 | ng | 96     |
| 12) 1,3-Dichlorobenzene        | 8.15  | 146 | 63695  | 39.53 | ng | 99     |
| 13) 1,4-Dichlorobenzene        | 8.29  | 146 | 64356  | 39.40 | ng | 97     |
| 14) 1,2-Dichlorobenzene        | 8.62  | 146 | 64592  | 40.64 | ng | 98     |
| 15) Benzyl Alcohol             | 8.49  | 79  | 49371  | 43.93 | ng | 92     |
| 16) 2,2'-oxybis(1-Chloropropan | 8.79  | 45  | 59471  | 37.83 | ng | 99     |
| 17) 2-Methylphenol             | 8.69  | 107 | 60695  | 44.65 | ng | 99     |
| 18) Hexachloroethane           | 9.35  | 117 | 22382  | 39.85 | ng | 98     |
| 19) n-Nitroso-di-n-propylamine | 9.06  | 70  | 47250  | 41.07 | ng | 99     |
| 20) 3+4-Methylphenols          | 9.02  | 107 | 83711  | 44.19 | ng | 97     |
| 22) Acetophenone               | 9.09  | 105 | 97633  | 39.33 | ng | # 99   |
| 24) Nitrobenzene               | 9.48  | 77  | 66429  | 40.69 | ng | 98     |
| 25) Isophorone                 | 9.99  | 82  | 138161 | 41.85 | ng | 99     |
| 26) 2-Nitrophenol              | 10.19 | 139 | 37091  | 43.17 | ng | 97     |
| 27) 2,4-Dimethylphenol         | 10.24 | 122 | 72690  | 44.15 | ng | 95     |
| 28) bis(2-Chloroethoxy)methane | 10.47 | 93  | 88942  | 43.72 | ng | 98     |
| 29) 2,4-Dichlorophenol         | 10.73 | 162 | 70948  | 48.08 | ng | 98     |
| 30) 1,2,4-Trichlorobenzene     | 10.94 | 180 | 62657  | 42.16 | ng | 99     |
| 31) Naphthalene                | 11.14 | 128 | 265755 | 49.89 | ng | 98     |
| 32) Benzoic acid               | 10.36 | 122 | 47722  | 36.14 | ng | 98     |
| 33) 4-Chloroaniline            | 11.24 | 127 | 9639   | 4.21  | ng | 99     |
| 34) Hexachlorobutadiene        | 11.41 | 225 | 30787  | 40.64 | ng | 99     |
| 35) Caprolactam                | 12.01 | 113 | 26181m | 46.31 | ng |        |
| 36) 4-Chloro-3-methylphenol    | 12.34 | 107 | 84848  | 50.19 | ng | 100    |
| 37) 2-Methylnaphthalene        | 12.72 | 142 | 179770 | 48.10 | ng | 98     |
| 39) 1,2,4,5-Tetrachlorobenzene | 13.08 | 216 | 73447  | 38.73 | ng | 98     |
| 40) Hexachlorocyclopentadiene  | 13.06 | 237 | 64176  | 76.92 | ng | 97     |

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Manual Integrations  
 APPROVED

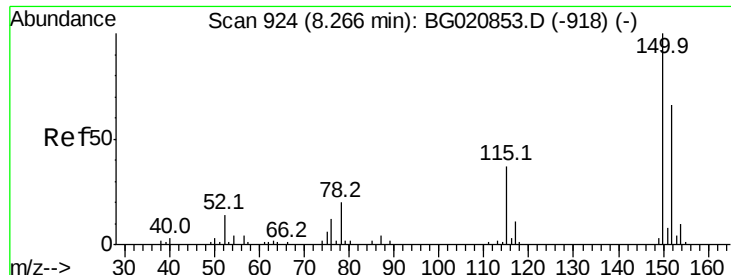
UMANGI  
 2/22/2016 10:55:24 AM

Quant Time: Feb 19 17:37:58 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG021116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
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 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 42) 2,4,6-Trichlorophenol      | 13.31 | 196  | 59075    | 46.37 | nq    | 99       |
| 43) 2,4,5-Trichlorophenol      | 13.39 | 196  | 65446    | 48.86 | nq    | 99       |
| 45) 1,1'-Biphenyl              | 13.71 | 154  | 229187   | 40.19 | nq    | 99       |
| 46) 2-Chloronaphthalene        | 13.76 | 162  | 171746   | 42.06 | nq    | 97       |
| 47) 2-Nitroaniline             | 13.96 | 65   | 46840    | 47.90 | nq    | 98       |
| 48) Acenaphthylene             | 14.60 | 152  | 309286   | 43.56 | nq    | 99       |
| 49) Dimethylphthalate          | 14.32 | 163  | 235709   | 46.63 | nq    | 99       |
| 50) 2,6-Dinitrotoluene         | 14.44 | 165  | 52936    | 48.87 | nq    | 97       |
| 51) Acenaphthene               | 14.94 | 154  | 211304   | 49.09 | nq    | 99       |
| 52) 3-Nitroaniline             | 14.77 | 138  | 16323    | 12.97 | nq    | 98       |
| 53) 2,4-Dinitrophenol          | 14.97 | 184  | 45646    | 97.33 | nq    | 91       |
| 54) Dibenzofuran               | 15.27 | 168  | 292099   | 51.30 | nq    | 99       |
| 55) 4-Nitrophenol              | 15.07 | 139  | 92543    | 97.35 | nq    | 96       |
| 56) 2,4-Dinitrotoluene         | 15.22 | 165  | 73633    | 52.59 | nq    | 99       |
| 57) Fluorene                   | 15.91 | 166  | 252300   | 48.12 | nq    | 99       |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.49 | 232  | 55637    | 54.51 | nq    | 100      |
| 59) Diethylphthalate           | 15.67 | 149  | 251448   | 48.39 | nq    | 99       |
| 60) 4-Chlorophenyl-phenylether | 15.90 | 204  | 107242   | 46.05 | nq    | 94       |
| 61) 4-Nitroaniline             | 15.93 | 138  | 45414    | 35.94 | nq    | 96       |
| 62) Azobenzene                 | 16.19 | 77   | 200463   | 49.06 | nq    | 99       |
| 64) 4,6-Dinitro-2-methylphenol | 15.98 | 198  | 31914    | 46.65 | nq    | 95       |
| 65) n-Nitrosodiphenylamine     | 16.11 | 169  | 183451   | 42.02 | nq    | 99       |
| 66) 4-Bromophenyl-phenylether  | 16.79 | 248  | 66407    | 46.54 | nq    | 99       |
| 67) Hexachlorobenzene          | 16.91 | 284  | 72194    | 47.54 | nq    | 100      |
| 68) Atrazine                   | 17.05 | 200  | 20475    | 15.46 | nq    | 98       |
| 69) Pentachlorophenol          | 17.25 | 266  | 84432    | 96.99 | nq    | 96       |
| 70) Phenanthrene               | 17.65 | 178  | 377693   | 49.10 | nq    | 99       |
| 71) Anthracene                 | 17.74 | 178  | 366253   | 46.91 | nq    | 99       |
| 72) Carbazole                  | 18.00 | 167  | 302869   | 43.23 | nq    | 100      |
| 73) Di-n-butylphthalate        | 18.55 | 149  | 415808   | 46.28 | nq    | 100      |
| 74) Fluoranthene               | 19.64 | 202  | 391468   | 47.11 | nq    | 99       |
| 77) Pyrene                     | 20.00 | 202  | 401730   | 47.90 | nq    | 99       |
| 79) Butylbenzylphthalate       | 20.87 | 149  | 190414   | 47.42 | nq    | 99       |
| 80) Benzo(a)anthracene         | 21.86 | 228  | 366221   | 48.25 | nq    | 98       |
| 82) Chrysene                   | 21.93 | 228  | 328789   | 46.06 | nq    | 99       |
| 83) Bis(2-ethylhexyl)phthalate | 21.75 | 149  | 275960   | 46.35 | nq    | 99       |
| 84) Di-n-octyl phthalate       | 23.01 | 149  | 474210   | 48.53 | nq    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 29.11 | 276  | 396476   | 48.30 | nq    | 97       |
| 87) Benzo(b)fluoranthene       | 24.18 | 252  | 356212   | 49.09 | nq    | 99       |
| 88) Benzo(k)fluoranthene       | 24.25 | 252  | 345339   | 48.58 | nq    | 99       |
| 89) Benzo(a)pyrene             | 25.10 | 252  | 343078   | 49.63 | nq    | 99       |
| 90) Dibenzo(a,h)anthracene     | 29.18 | 278  | 326839   | 48.62 | nq    | 98       |
| 91) Benzo(g,h,i)perylene       | 30.33 | 276  | 325180   | 48.73 | nq    | 97       |

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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 8.26 min Scan# 923

Delta R.T. -0.01 min

Lab File: BG020974.D

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Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:152 Resp: 20543

Ion Ratio Lower Upper

152 100

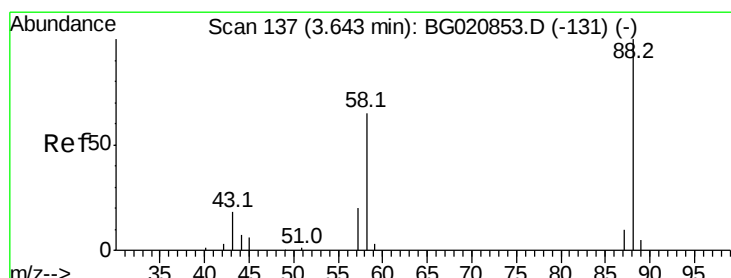
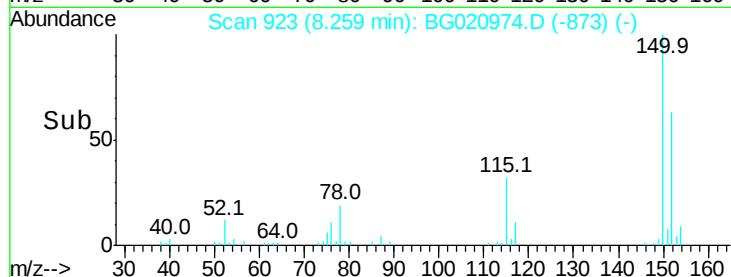
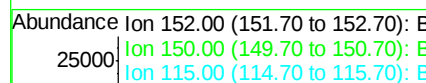
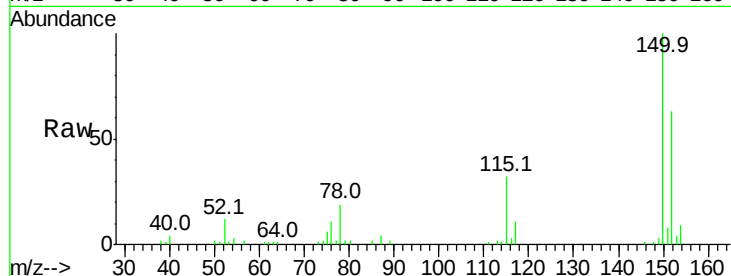
150 157.8 122.0 183.0

115 50.0 45.2 67.8

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#2

1,4-Dioxane

Concen: 32.41 ng

RT: 3.64 min Scan# 136

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

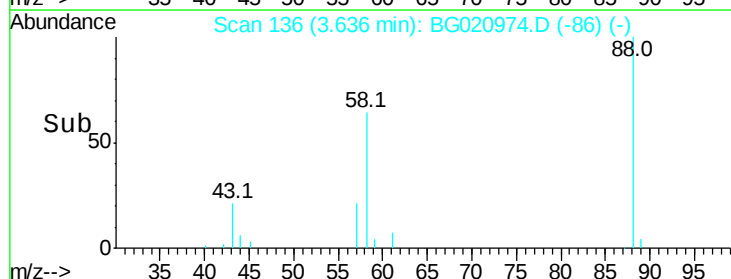
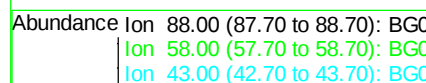
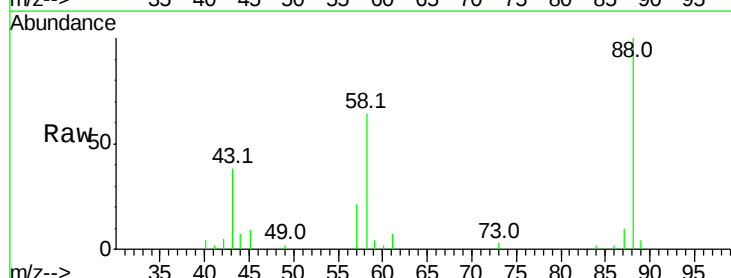
Tgt Ion: 88 Resp: 14374

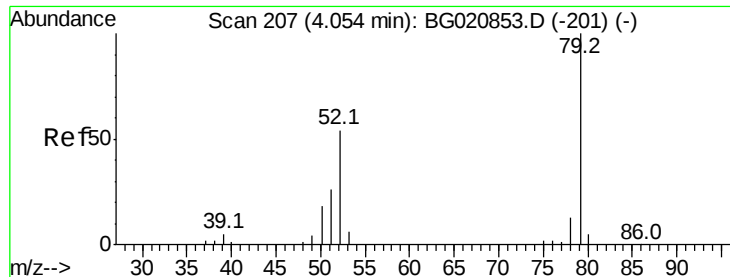
Ion Ratio Lower Upper

88 100

58 65.6 50.3 75.5

43 35.5 14.5 21.7#





#3

Pvridine

Concen: 48.81 ng

RT: 4.05 min Scan# 207

Delta R.T. -0.00 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

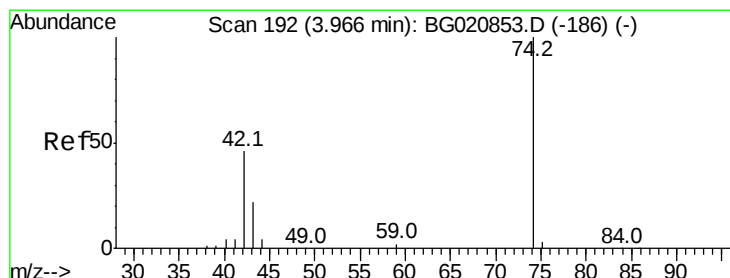
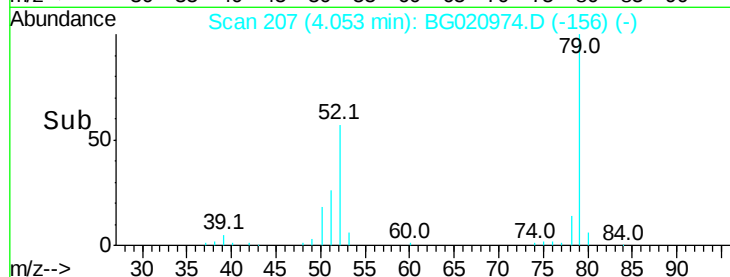
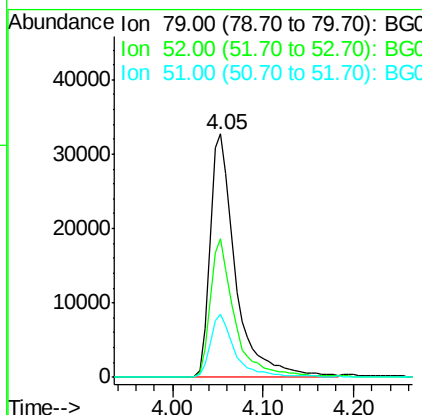
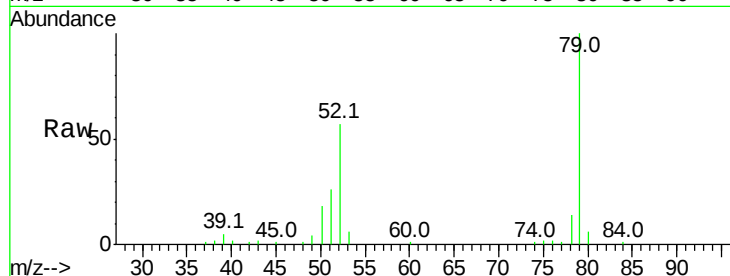
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 79    | Resp: | 64042 |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 52        | 56.9  | 43.1  | 64.7  |
| 51        | 25.8  | 20.7  | 31.1  |

Manual Integrations  
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#4

n-Nitrosodimethylamine

Concen: 42.61 ng

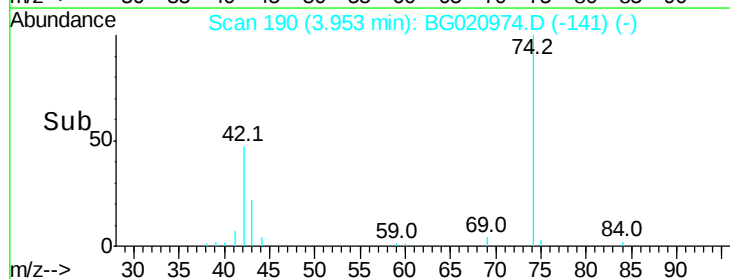
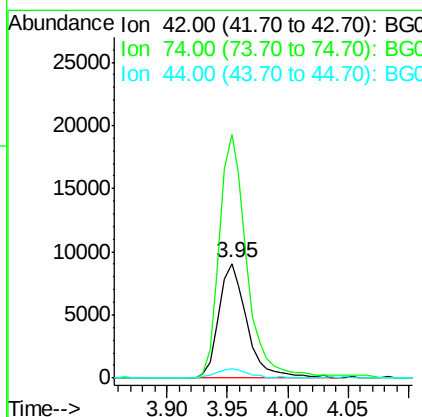
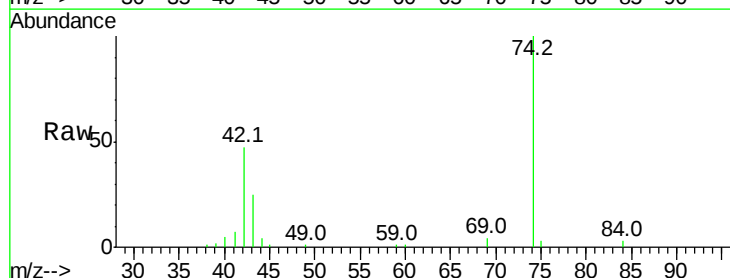
RT: 3.95 min Scan# 190

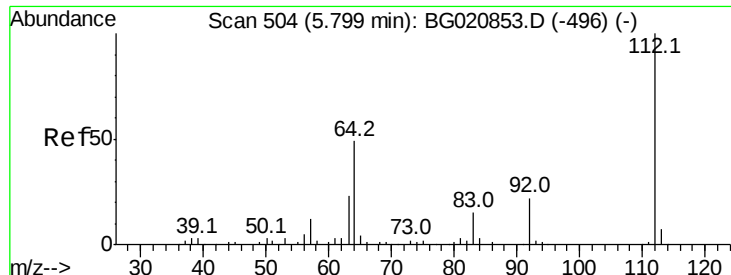
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 14624 |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 74        | 212.2 | 173.8 | 260.6 |
| 44        | 8.4   | 6.3   | 9.5   |





#5

2-Fluorophenol

Concen: 136.80 ng

RT: 5.79 min Scan# 503

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

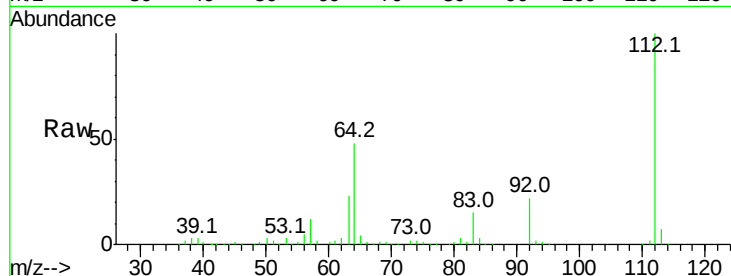
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 112   | Resp: | 166874 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 64        | 47.7  | 39.3  | 58.9   |
| 63        | 22.8  | 18.2  | 27.4   |

Manual Integrations  
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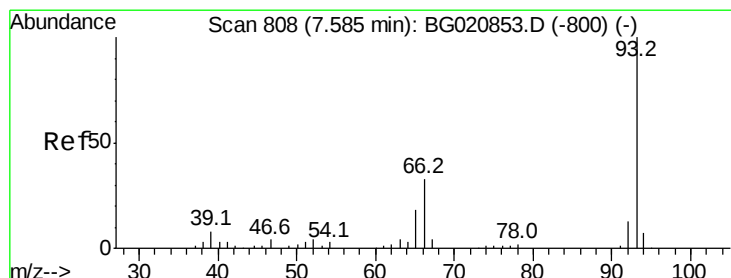
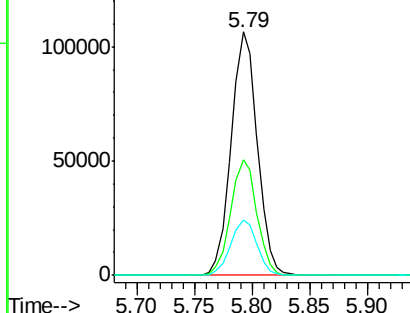
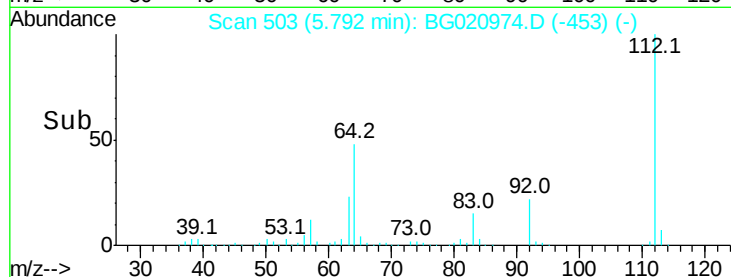
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Abundance Ion 112.00 (111.70 to 112.70): BGC

Ion 64.00 (63.70 to 64.70): BGC

Ion 63.00 (62.70 to 63.70): BGC



#6

Aniline

Concen: 18.17 ng

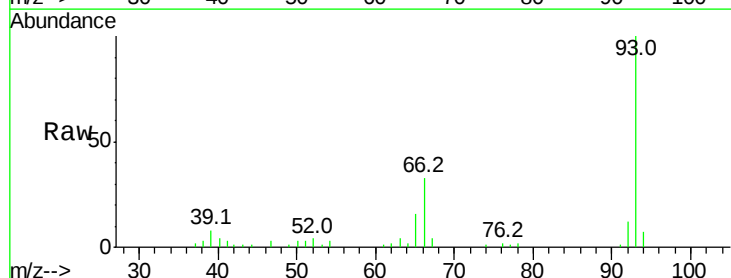
RT: 7.58 min Scan# 807

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

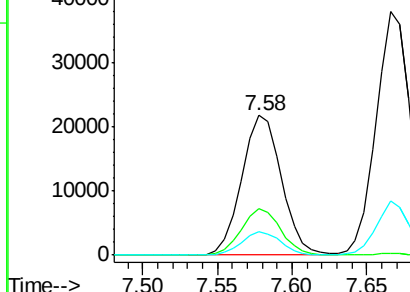
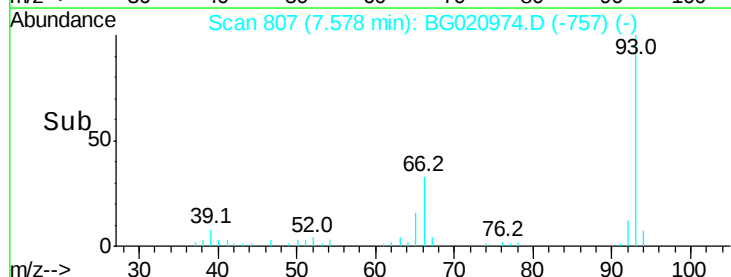
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 40397 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 66        | 33.0  | 26.6  | 40.0  |
| 65        | 16.4  | 14.0  | 21.0  |

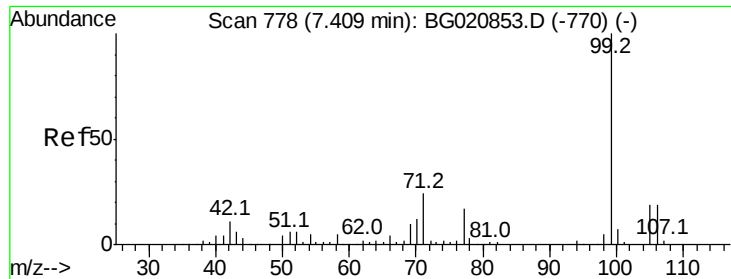


Abundance Ion 93.00 (92.70 to 93.70): BGC

Ion 66.00 (65.70 to 66.70): BGC

Ion 65.00 (64.70 to 65.70): BGC





#7

Phenol-d6

Concen: 129.21 ng

RT: 7.41 min Scan# 778

Delta R.T. -0.00 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

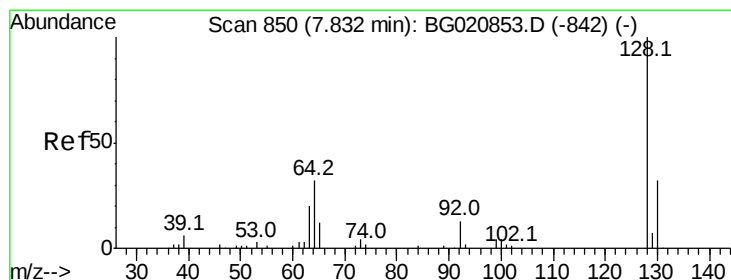
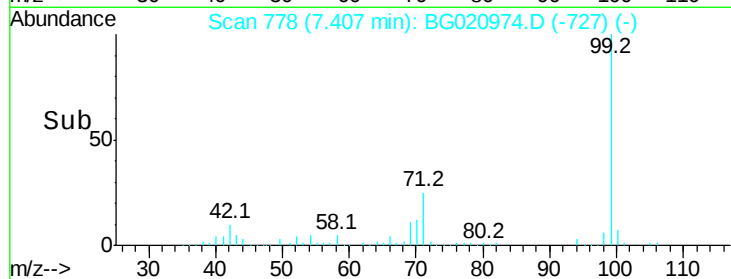
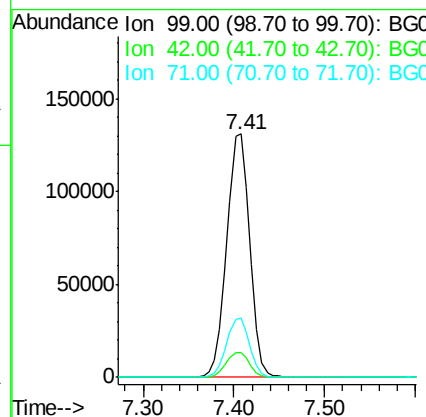
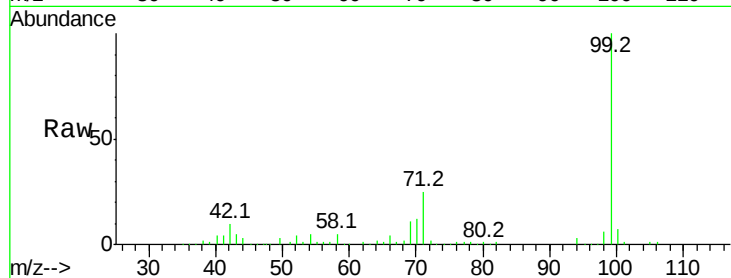
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 99    | Resp: | 230382 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 10.3  | 8.4   | 12.6   |
| 71        | 24.6  | 19.4  | 29.0   |

Manual Integrations  
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#8

2-Chlorophenol

Concen: 42.79 ng

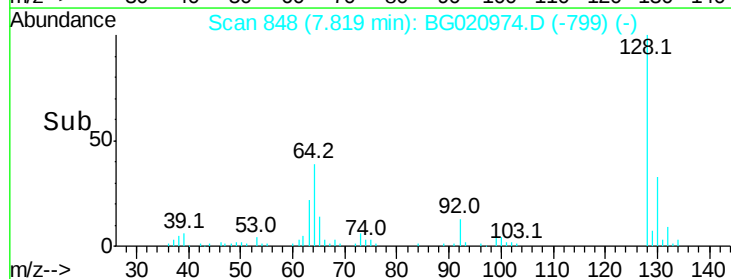
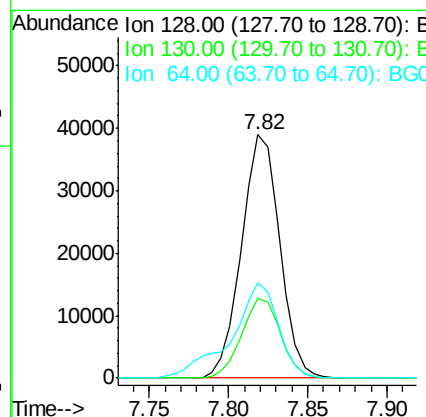
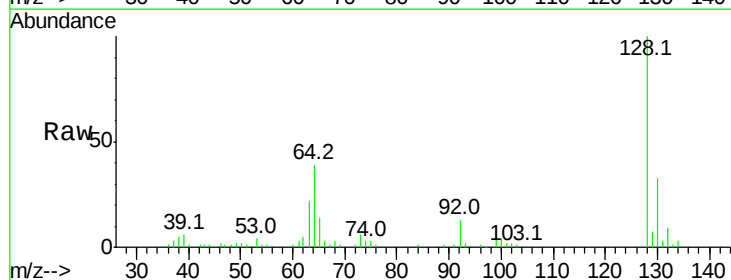
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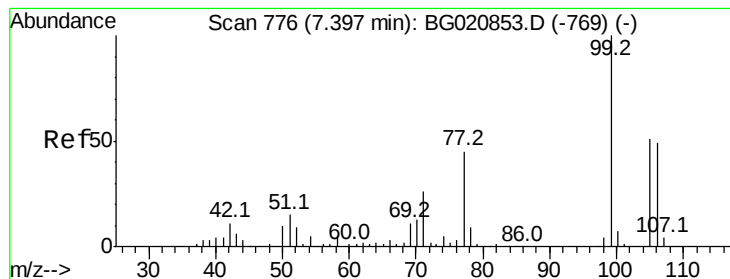
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 65207 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 130       | 32.9  | 12.3  | 52.3  |
| 64        | 39.3  | 15.9  | 55.9  |





#9

Benzaldehyde

Concen: 8.64 ng/mL

RT: 7.39 min Scan# 775

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

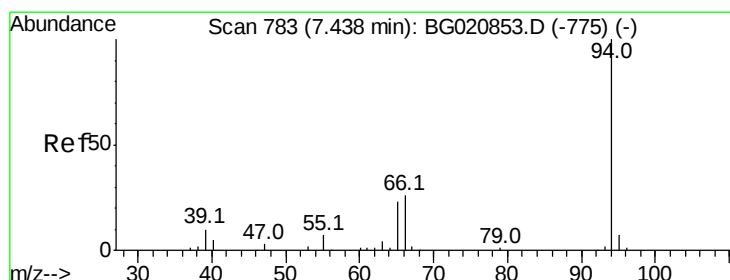
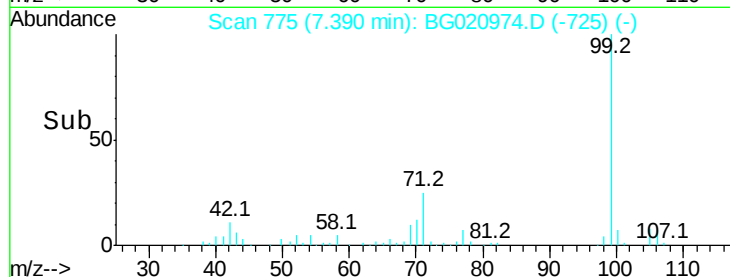
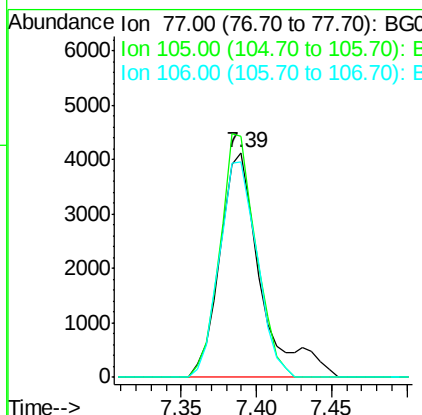
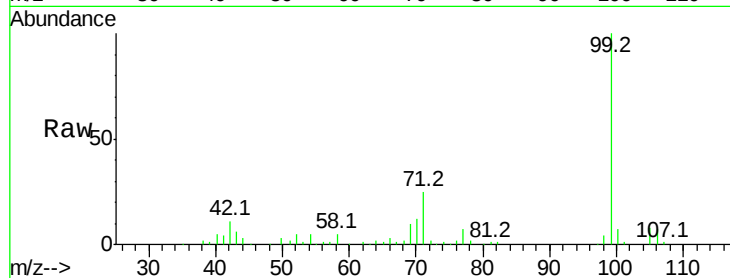
ClientSampleId :

SOIL-CUTTINGSMS

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 77    | Resp: | 7713  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 105      | 107.1 | 93.4  | 133.4 |
| 106      | 95.8  | 88.7  | 128.7 |

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#10

Phenol

Concen: 42.06 ng/mL

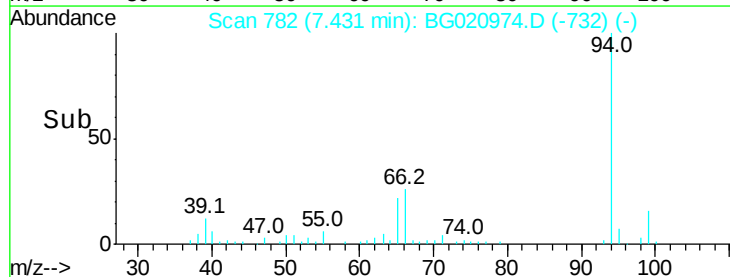
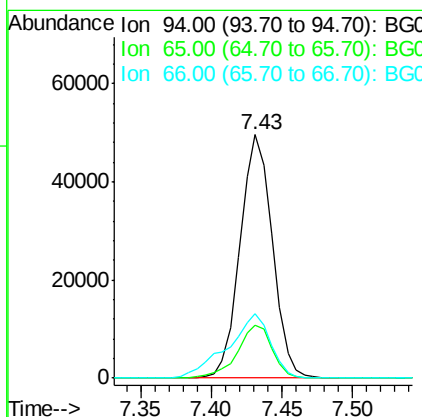
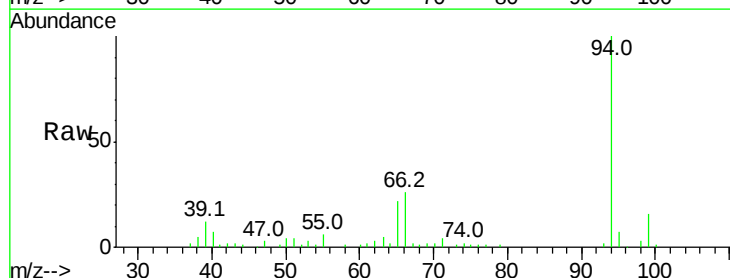
RT: 7.43 min Scan# 782

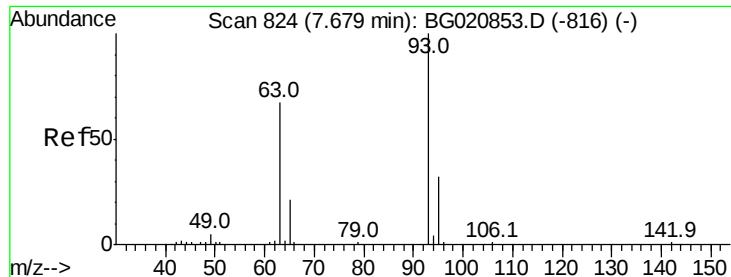
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 79363 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 21.9  | 2.8   | 42.8  |
| 66       | 26.5  | 7.2   | 47.2  |





#11

bis(2-Chloroethyl)ether

Concen: 40.02 ng

RT: 7.67 min Scan# 822

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

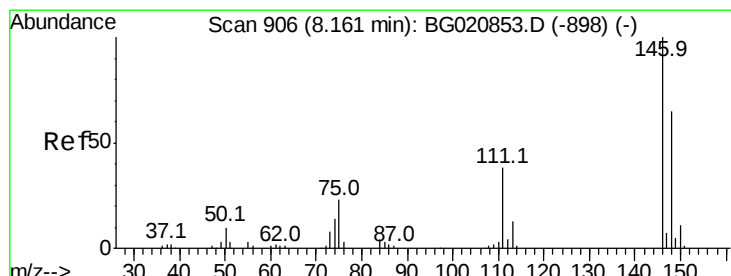
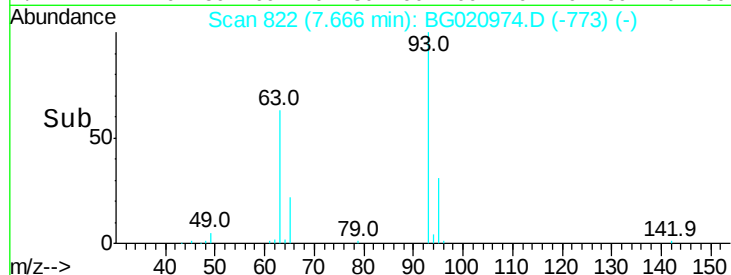
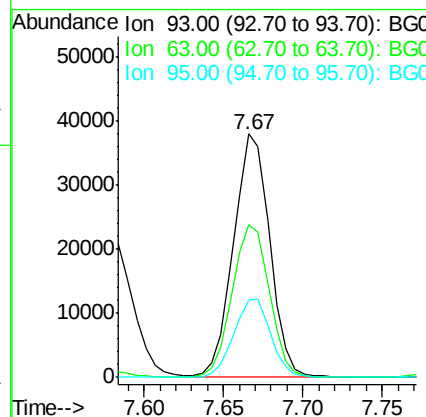
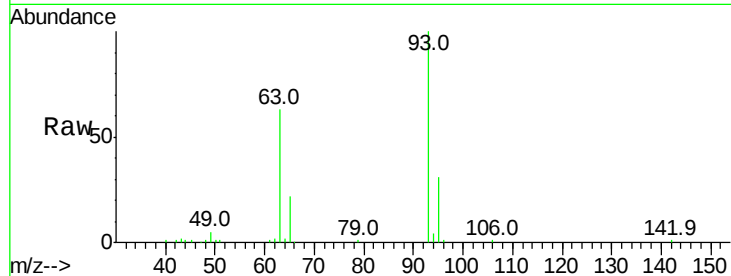
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 93    | Resp: | 60312 |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 62.5  | 46.4  | 86.4  |
| 95        | 31.5  | 12.1  | 52.1  |

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#12

1,3-Dichlorobenzene

Concen: 39.53 ng

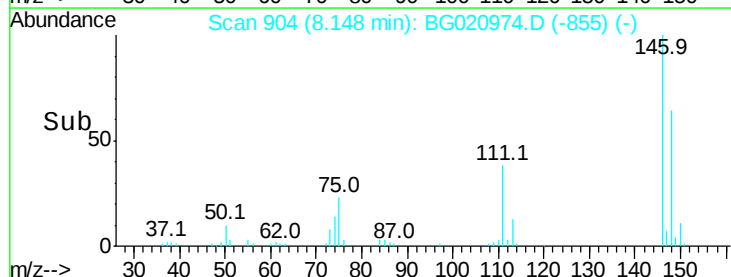
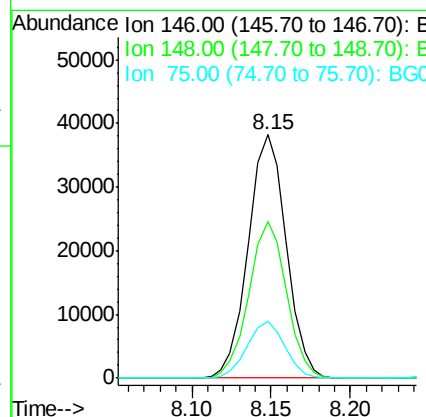
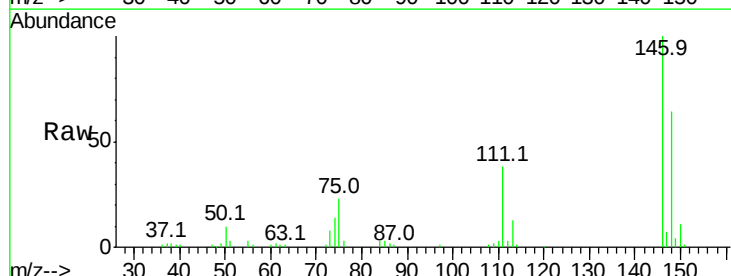
RT: 8.15 min Scan# 904

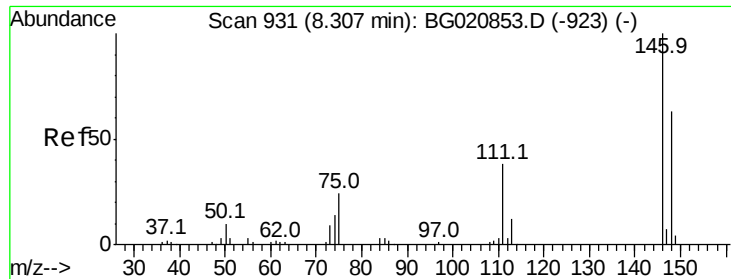
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 63695 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 148       | 64.4  | 51.8  | 77.8  |
| 75        | 23.1  | 18.7  | 28.1  |





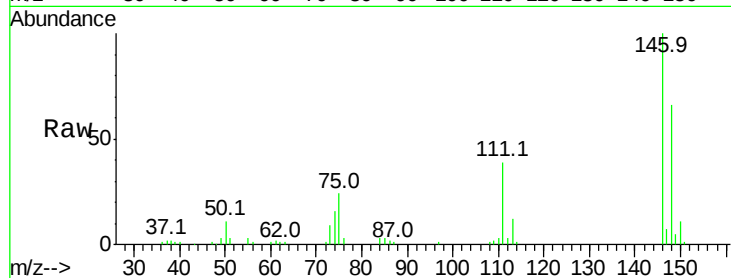
#13  
 1,4-Dichlorobenzene  
 Concen: 39.40 ng  
 RT: 8.29 min Scan# 929  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 66.3  | 50.8  | 76.2  |
| 111     | 39.3  | 30.1  | 45.1  |

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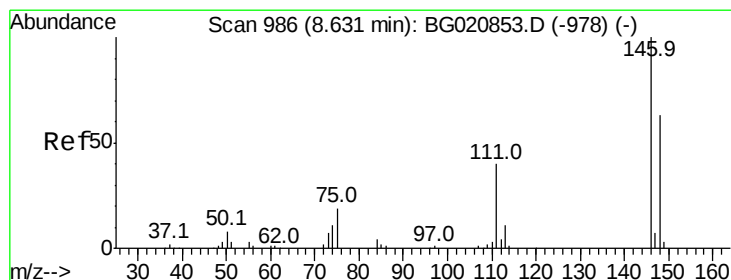
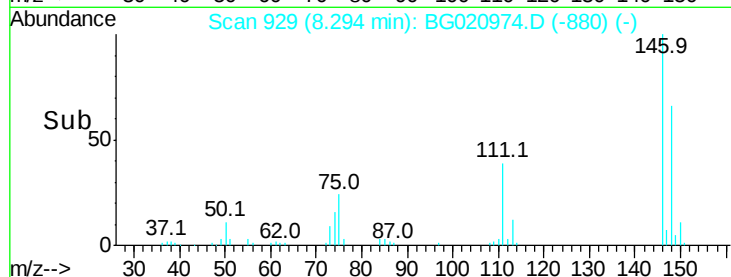
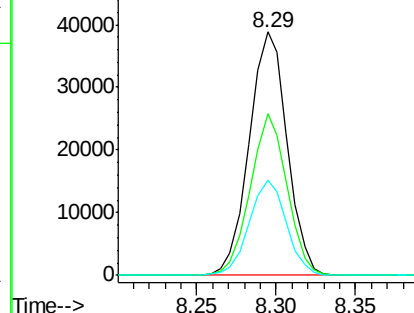


Abundance

Ion 146.00 (145.70 to 146.70): E

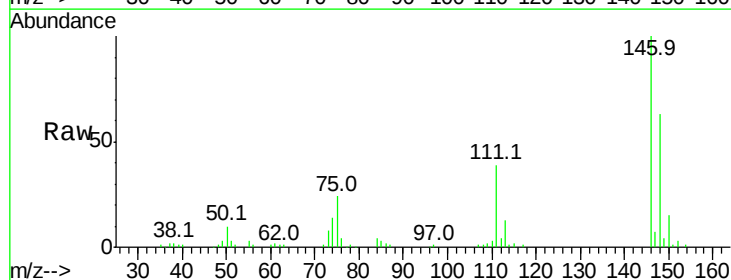
Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#14  
 1,2-Dichlorobenzene  
 Concen: 40.64 ng  
 RT: 8.62 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.8  | 50.6  | 76.0  |
| 111     | 38.8  | 32.6  | 48.8  |

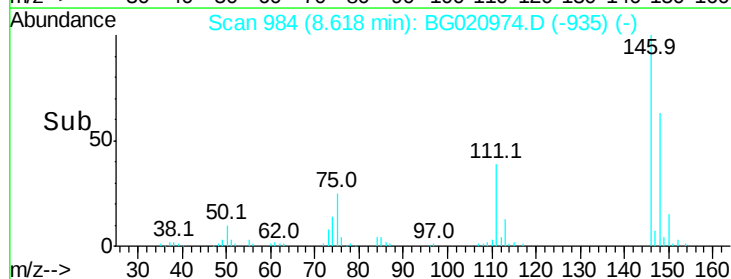
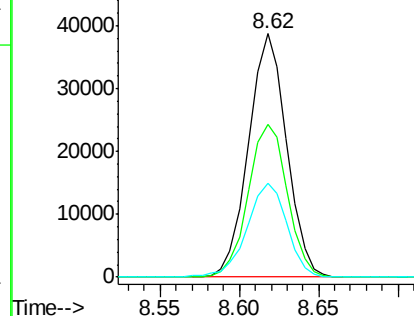


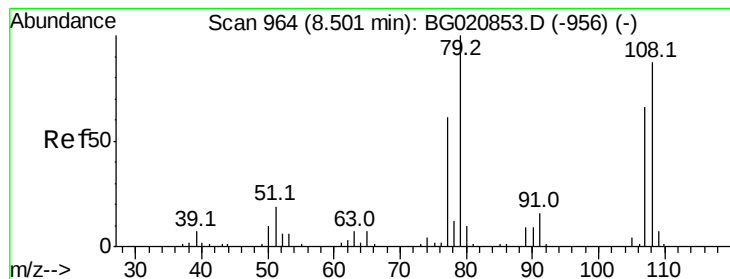
Abundance

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





#15

Benzyl Alcohol

Concen: 43.93 ng

RT: 8.49 min Scan# 963

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

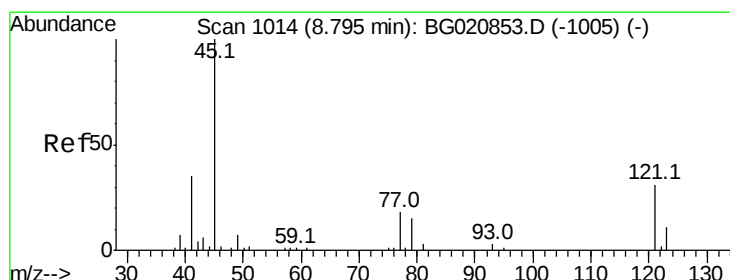
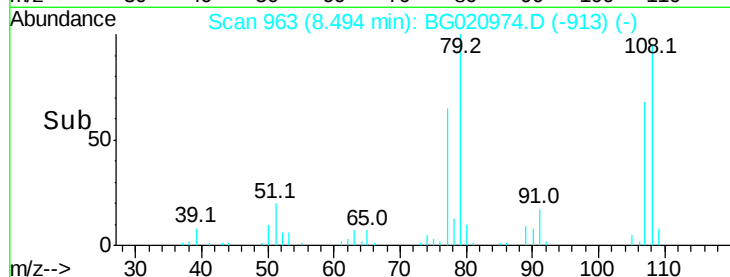
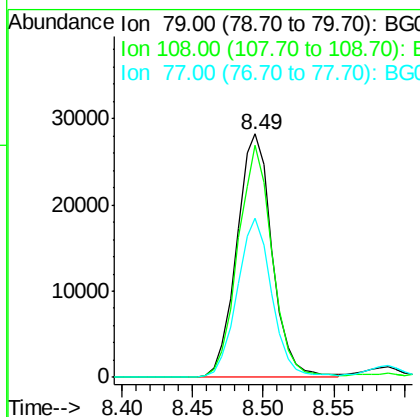
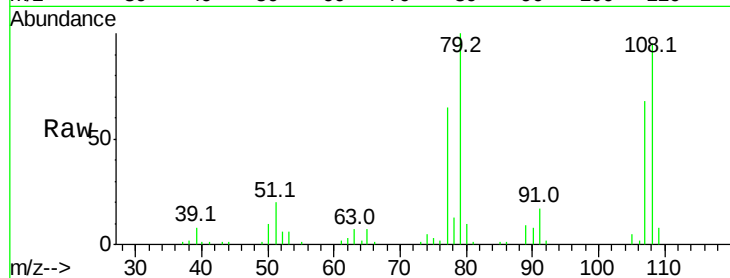
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 79    | Resp: | 49371 |
| Ion Ratio | Lower | Upper |       |
| 79        | 100   |       |       |
| 108       | 95.4  | 69.4  | 104.2 |
| 77        | 65.2  | 48.6  | 73.0  |

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#16

2,2'-oxybis(1-chloropropane)

Concen: 37.83 ng

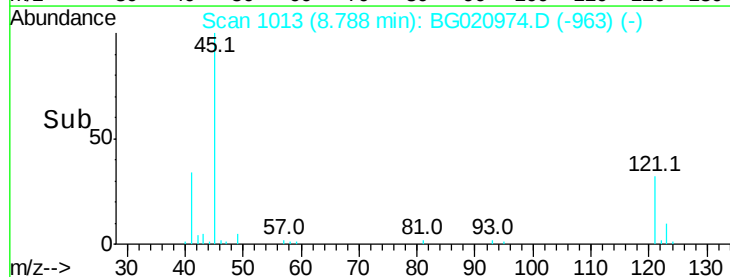
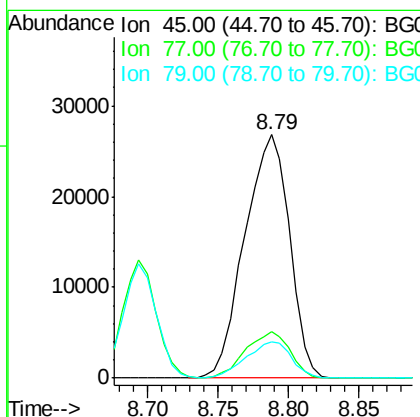
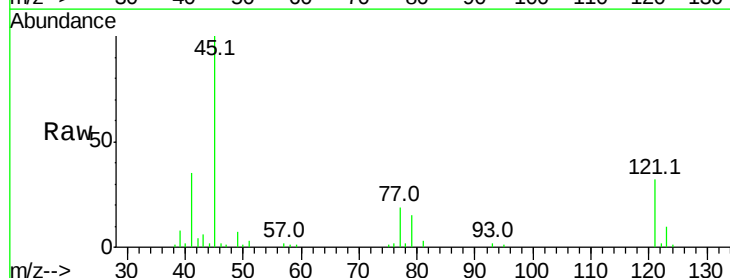
RT: 8.79 min Scan# 1013

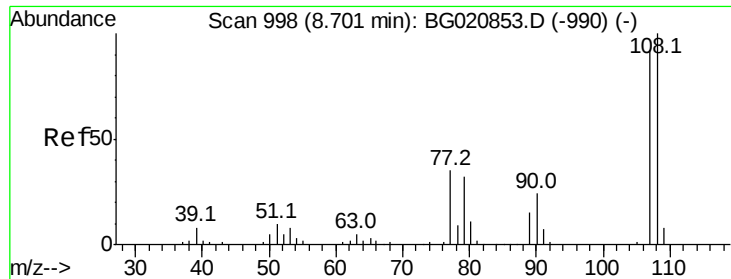
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 45    | Resp: | 59471 |
| Ion Ratio | Lower | Upper |       |
| 45        | 100   |       |       |
| 77        | 19.0  | 0.0   | 38.5  |
| 79        | 15.0  | 0.0   | 34.9  |





#17

2-Methylphenol

Concen: 44.65 ng

RT: 8.69 min Scan# 997

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

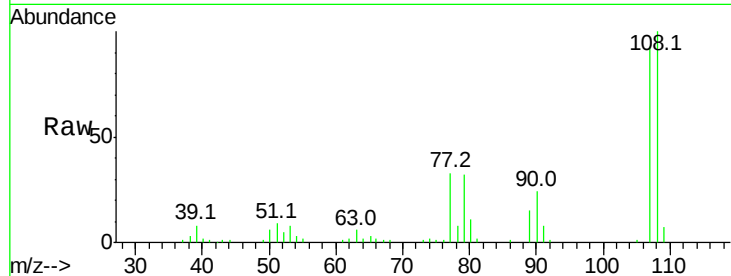
ClientSampleId :

SOIL-CUTTINGSMS

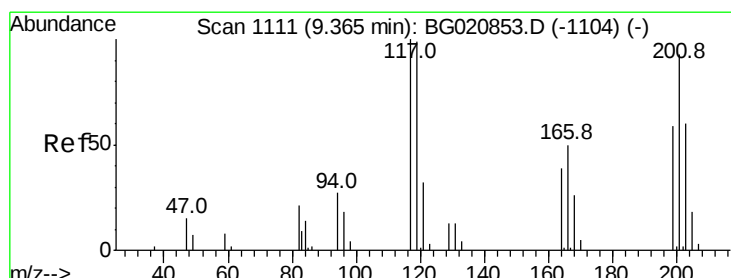
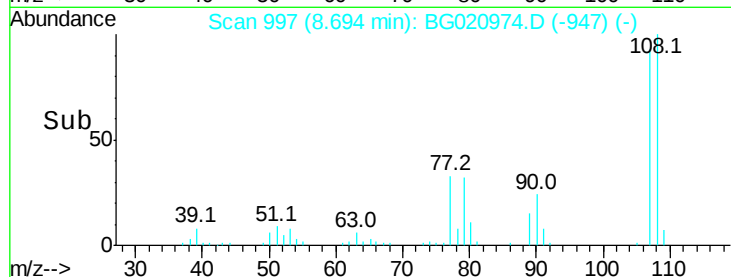
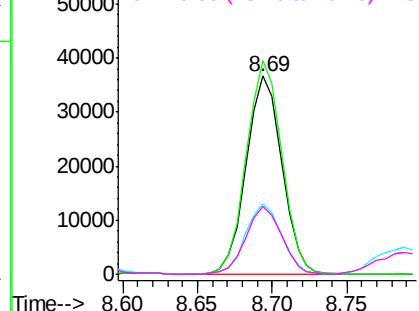
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 107     | 100   |      |       |       |
| 108     | 107.7 | 87.0 | 130.4 |       |
| 77      | 35.5  | 30.1 | 45.1  |       |
| 79      | 34.3  | 27.4 | 41.2  |       |

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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): BG  
Ion 79.00 (78.70 to 79.70): BG



#18

Hexachloroethane

Concen: 39.85 ng

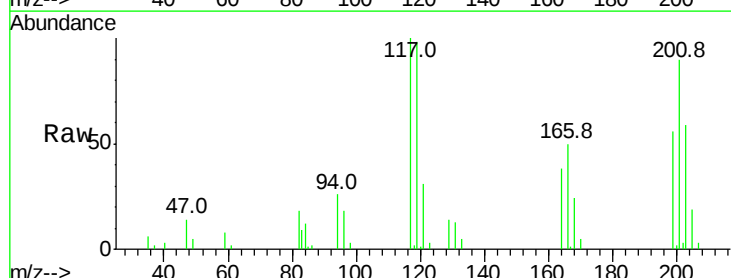
RT: 9.35 min Scan# 1109

Delta R.T. -0.01 min

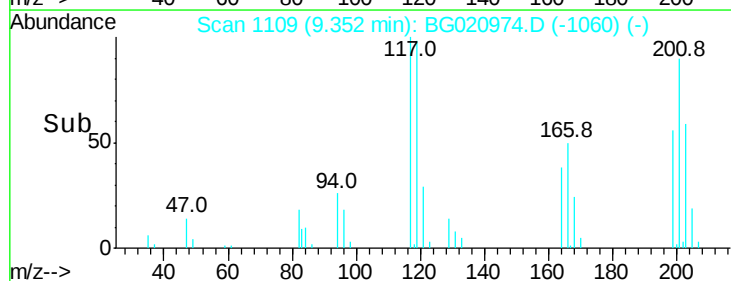
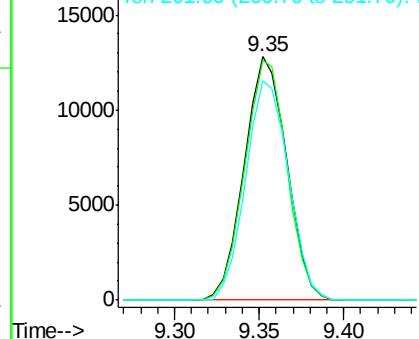
Lab File: BG020974.D

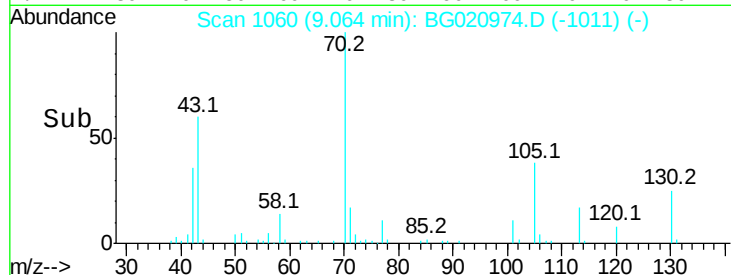
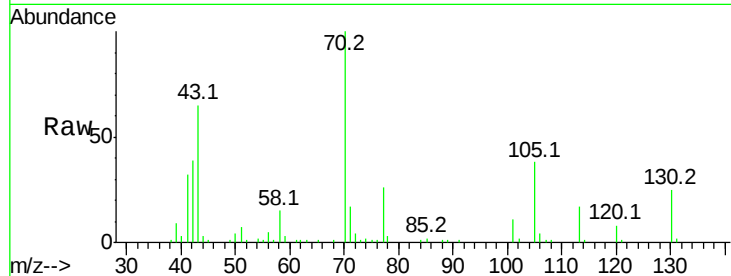
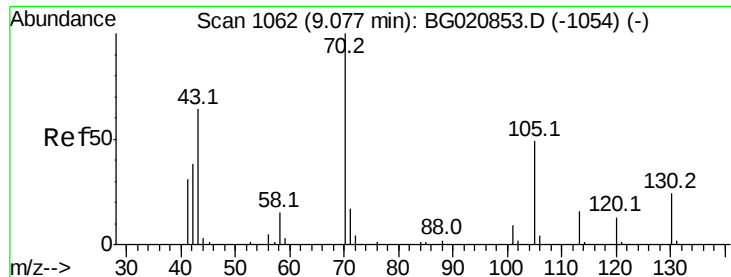
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 117     | 100   |      |       |       |
| 119     | 98.4  | 79.6 | 119.4 |       |
| 201     | 89.8  | 74.5 | 111.7 |       |



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





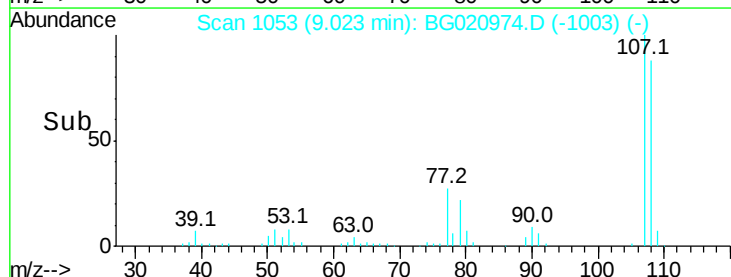
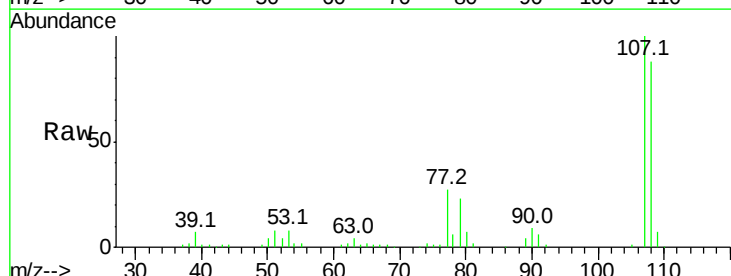
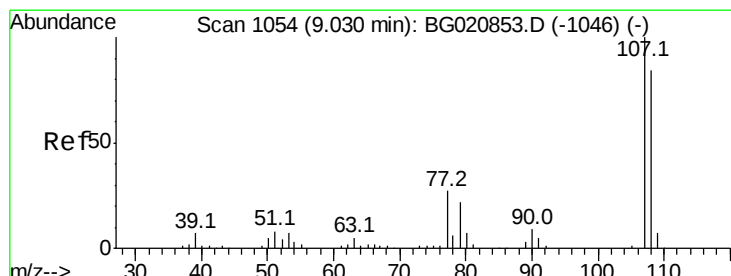
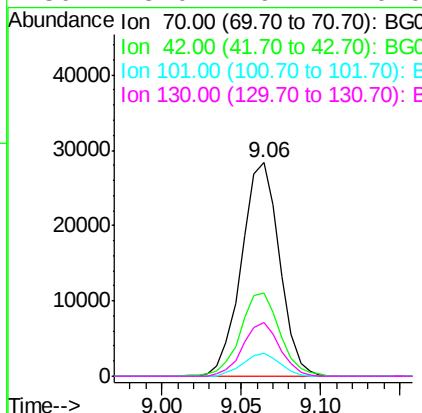
#19  
n-Nitroso-di-n-propylamine  
Concen: 41.07 ng  
RT: 9.06 min Scan# 1060  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 70      | 100  |       |       |       |
| 42      | 38.9 | 30.9  | 46.3  |       |
| 101     | 10.6 | 7.3   | 10.9  |       |
| 130     | 25.0 | 19.4  | 29.0  |       |

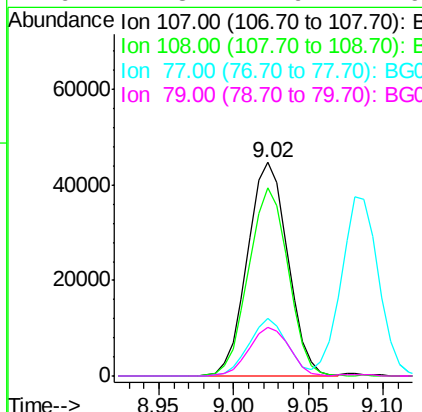
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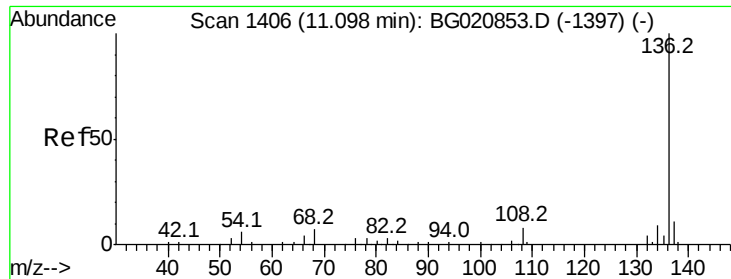
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#20  
3+4-Methylphenols  
Concen: 44.19 ng  
RT: 9.02 min Scan# 1053  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 107     | 100  |       |       |       |
| 108     | 88.2 | 64.4  | 104.4 |       |
| 77      | 26.8 | 7.1   | 47.1  |       |
| 79      | 22.8 | 1.9   | 41.9  |       |





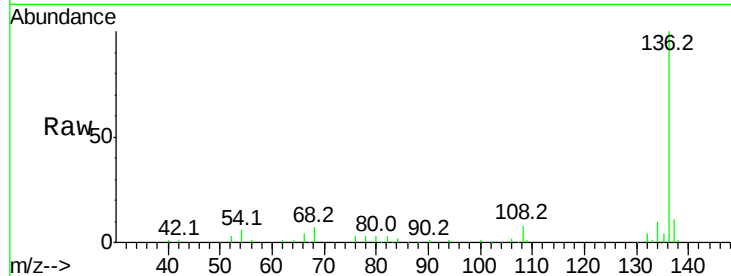
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 11.08 min Scan# 1404  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 136     | 100   |      |       |       |
| 137     | 11.0  | 8.8  | 13.2  |       |
| 54      | 6.1   | 5.0  | 7.4   |       |
| 68      | 6.7   | 5.2  | 7.8   |       |

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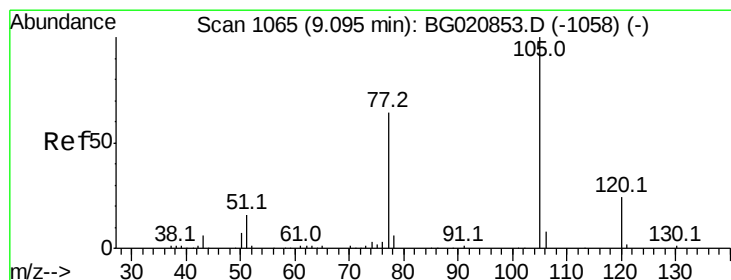
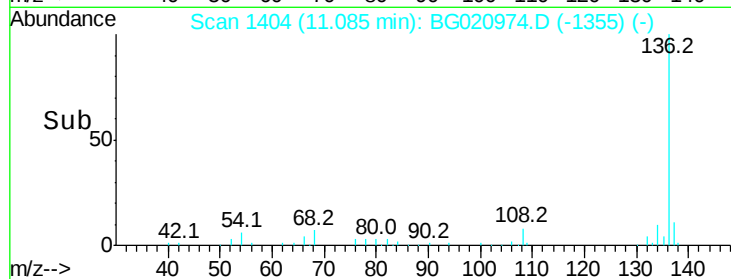
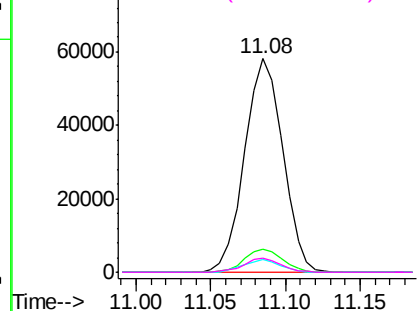
Abundance

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



#22  
Acetophenone  
Concen: 39.33 ng  
RT: 9.09 min Scan# 1064  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 105     | 100   |      |       |       |
| 71      | 0.5   | 1.4  | 2.0#  |       |
| 51      | 17.6  | 13.7 | 20.5  |       |
| 120     | 24.1  | 19.0 | 28.6  |       |

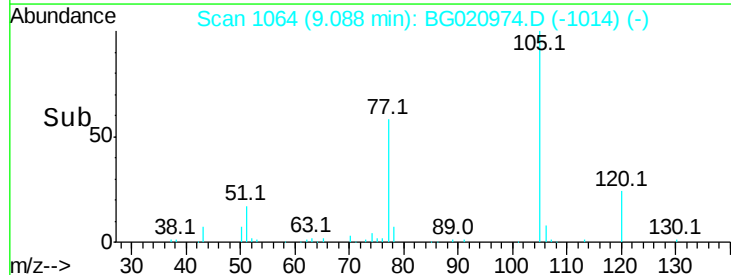
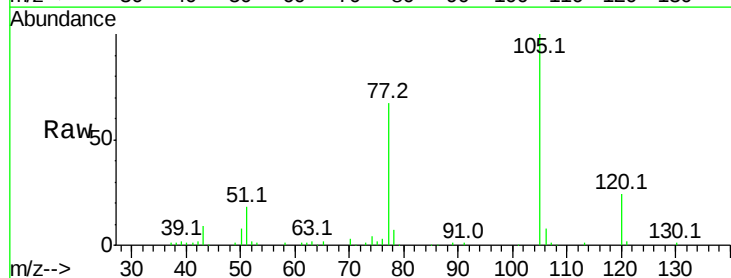
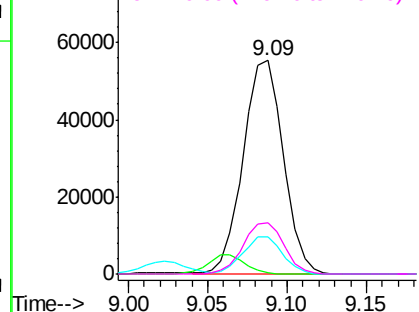
Abundance

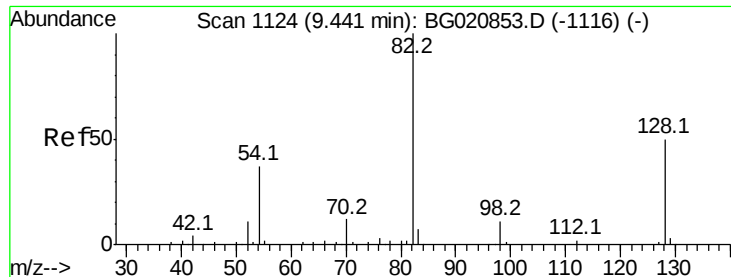
Ion 105.00 (104.70 to 105.70): E

Ion 71.00 (70.70 to 71.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

Ion 120.00 (119.70 to 120.70): E





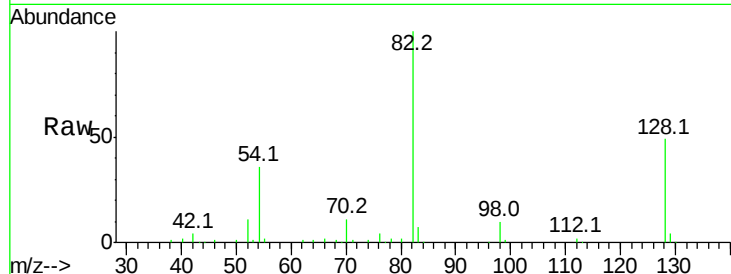
#23  
Nitrobenzene-d5  
Concen: 88.97 ng  
RT: 9.43 min Scan# 1122  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

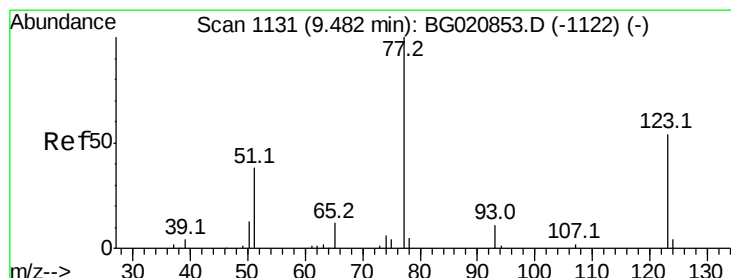
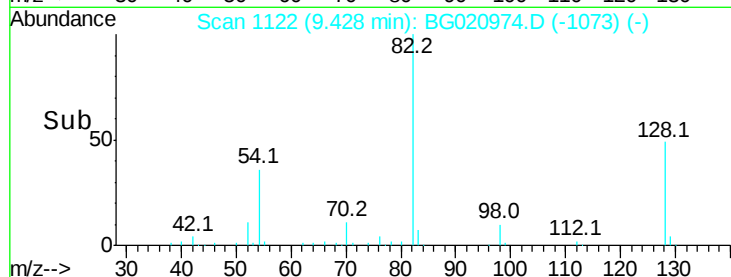
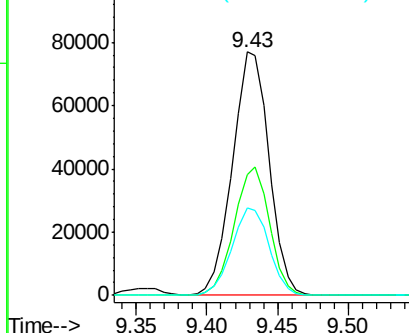
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 128     | 49.5  | 40.1 | 60.1  |       |
| 54      | 36.2  | 29.5 | 44.3  |       |

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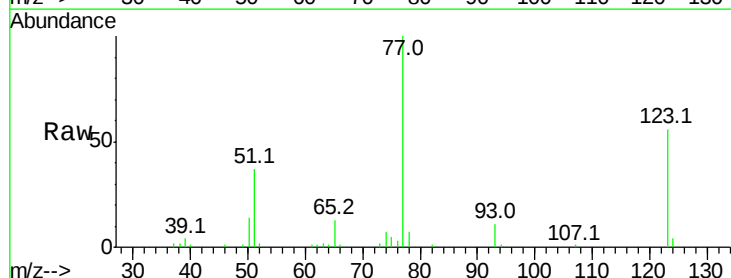


Abundance Ion 82.00 (81.70 to 82.70): BGC  
Ion 128.00 (127.70 to 128.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC

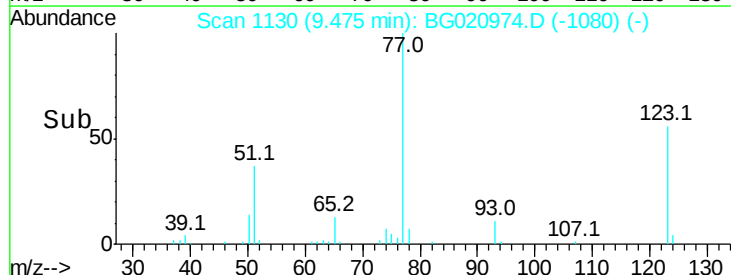
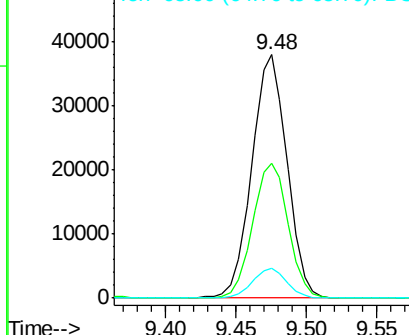


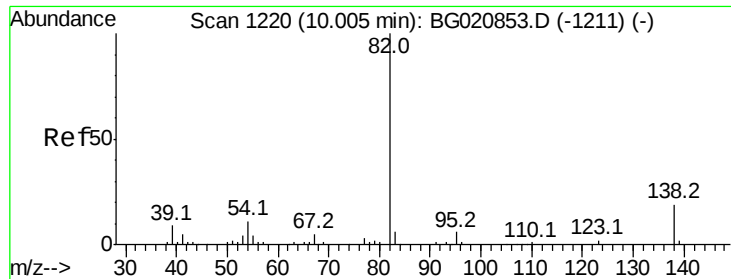
#24  
Nitrobenzene  
Concen: 40.69 ng  
RT: 9.48 min Scan# 1130  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 77      | 100   |      |       |       |
| 123     | 55.5  | 43.2 | 64.8  |       |
| 65      | 12.5  | 9.2  | 13.8  |       |



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





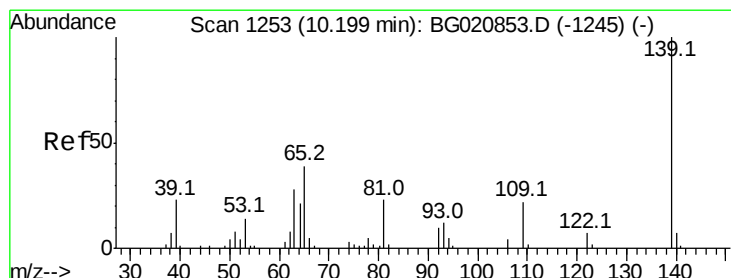
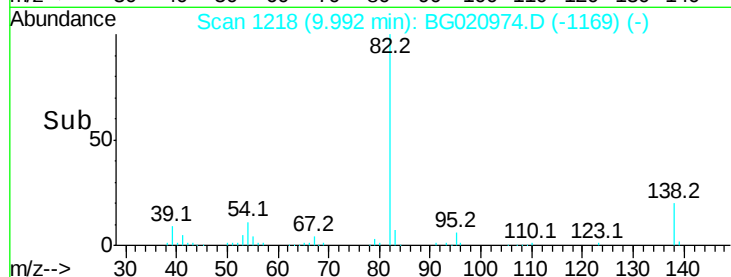
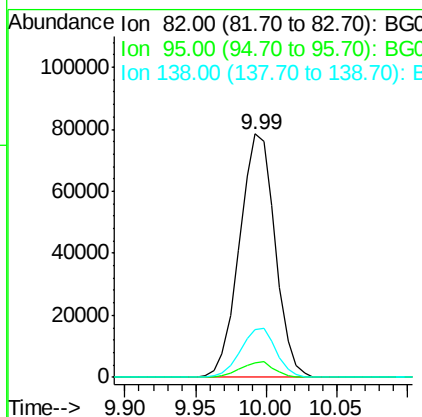
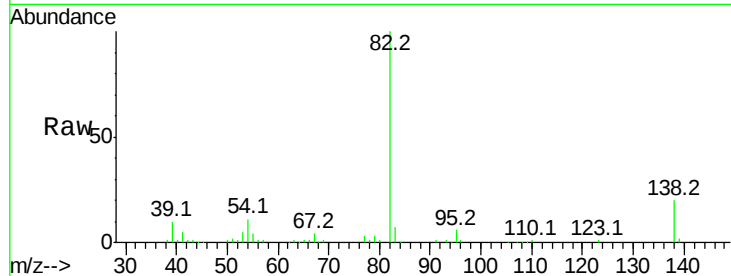
#25  
Isophorone  
Concen: 41.85 ng  
RT: 9.99 min Scan# 1218  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 82      | 100   |      |       |       |
| 95      | 6.2   | 4.8  | 7.2   |       |
| 138     | 19.6  | 15.4 | 23.0  |       |

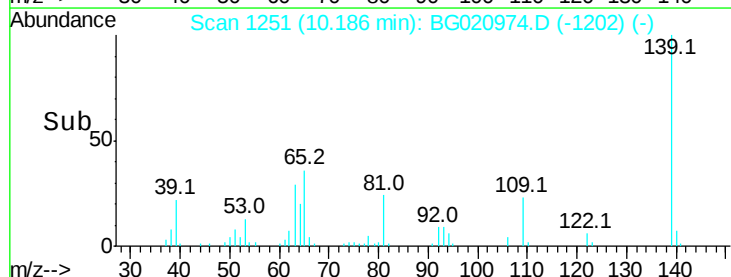
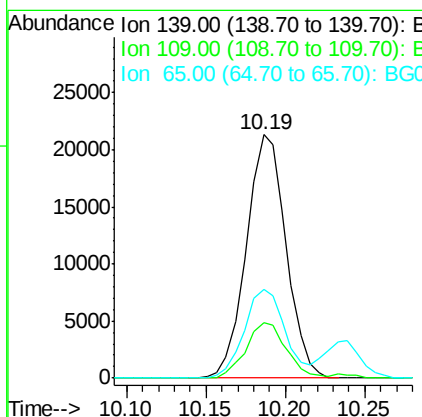
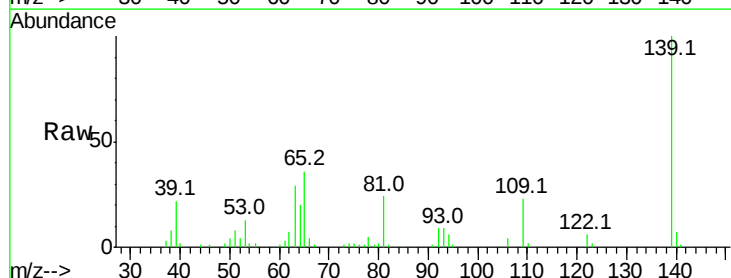
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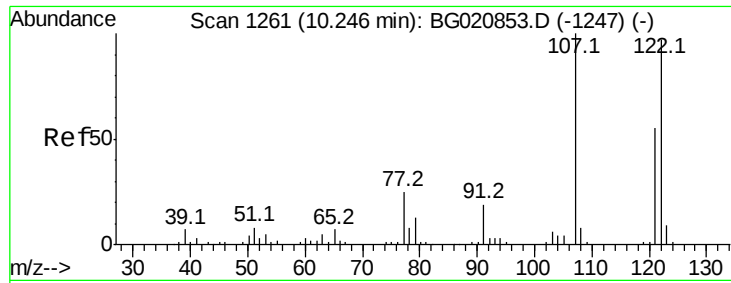
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#26  
2-Nitrophenol  
Concen: 43.17 ng  
RT: 10.19 min Scan# 1251  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 139     | 100   |      |       |       |
| 109     | 22.7  | 17.6 | 26.4  |       |
| 65      | 36.4  | 31.0 | 46.6  |       |





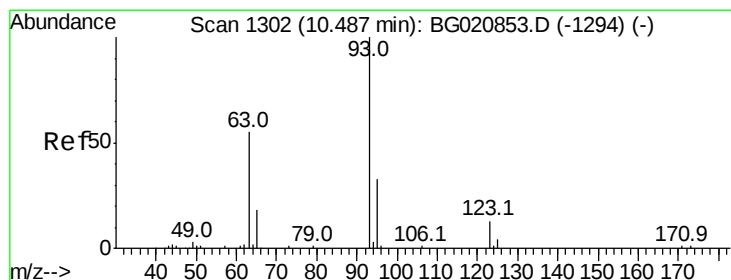
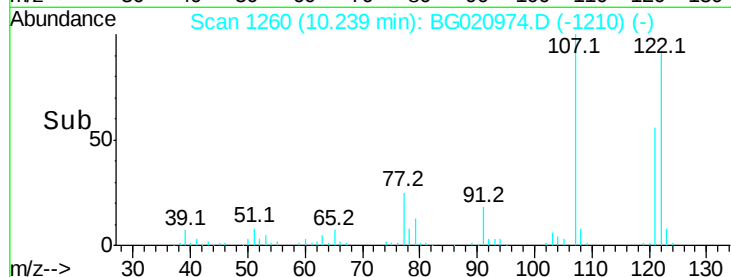
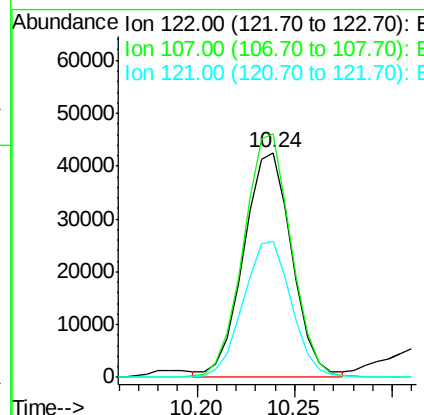
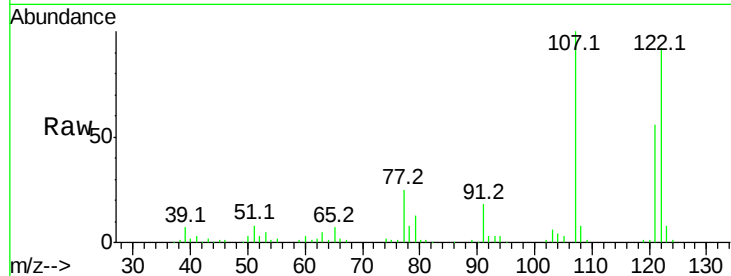
#27  
 2,4-Dimethylphenol  
 Concen: 44.15 ng  
 RT: 10.24 min Scan# 1260  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 122     | 100   |       |       |
| 107     | 108.4 | 82.6  | 124.0 |
| 121     | 60.8  | 45.6  | 68.4  |

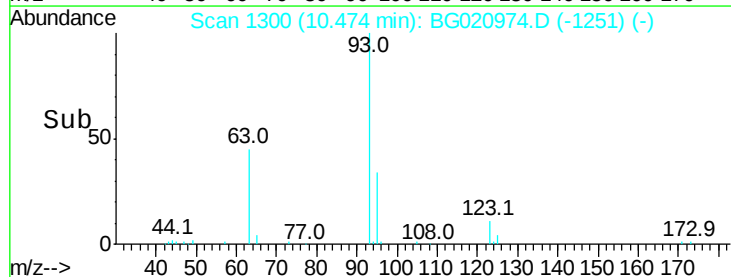
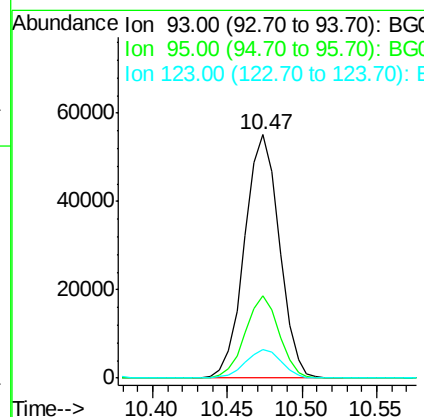
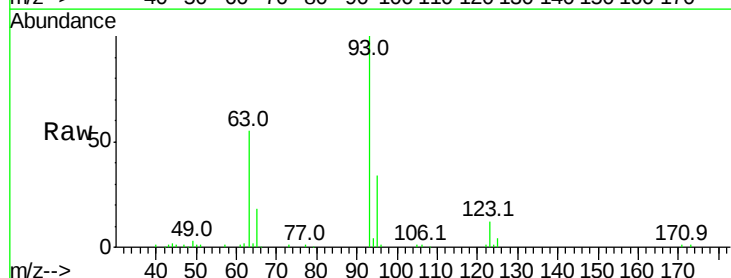
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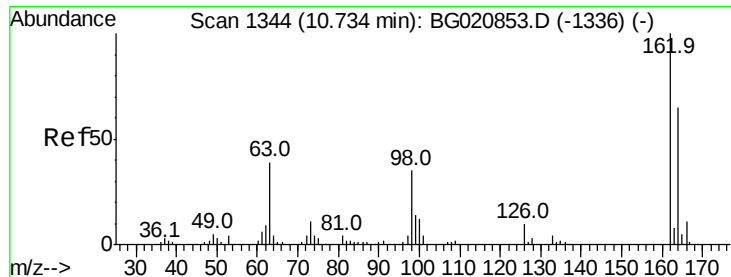
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 2/22/2016 10:55:24 AM



#28  
 bis(2-Chloroethoxy)methane  
 Concen: 43.72 ng  
 RT: 10.47 min Scan# 1300  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 33.6  | 26.2  | 39.2  |
| 123     | 12.0  | 10.0  | 15.0  |





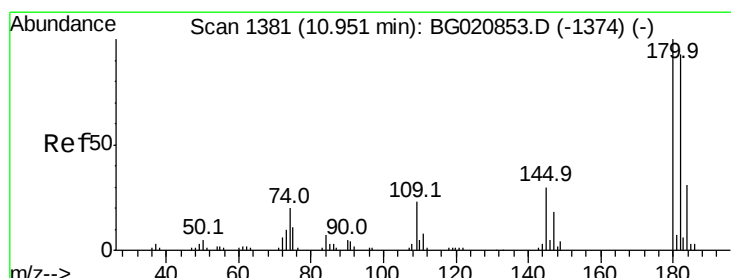
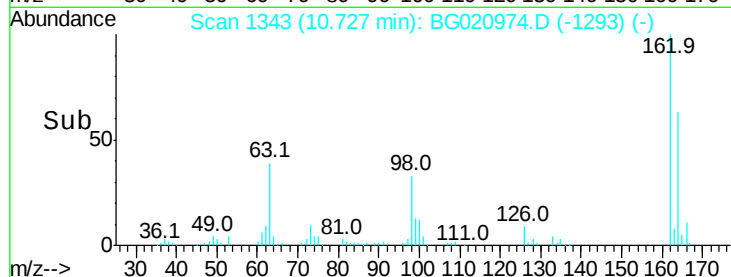
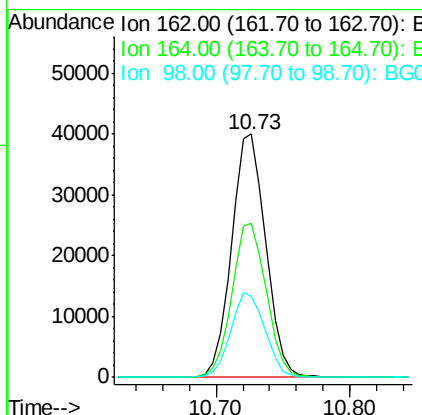
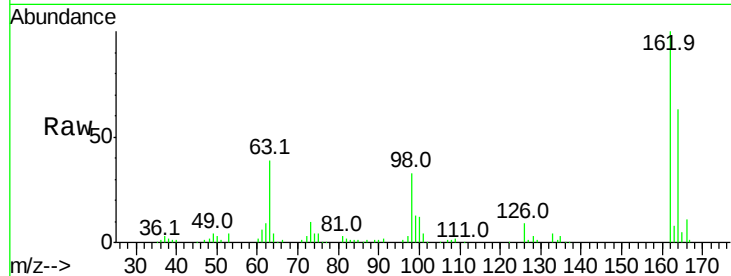
#29  
 2,4-Dichlorophenol  
 Concen: 48.08 ng  
 RT: 10.73 min Scan# 1343  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 63.2  | 44.5  | 84.5  |
| 98      | 33.0  | 14.9  | 54.9  |

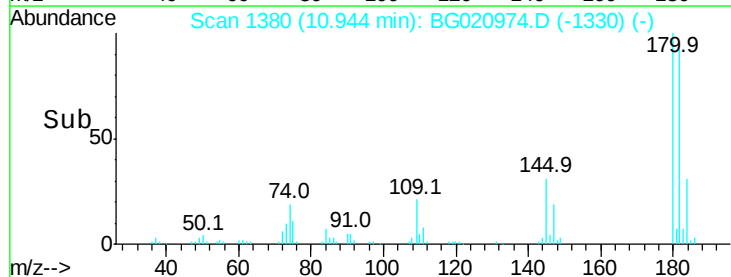
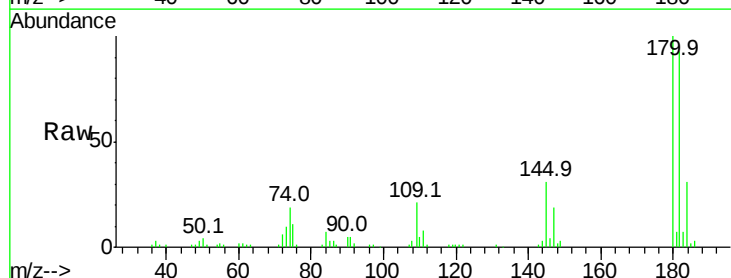
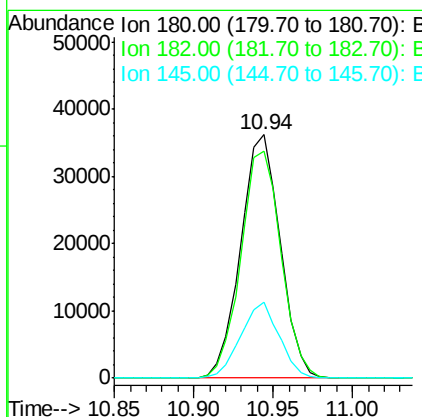
Manual Integrations  
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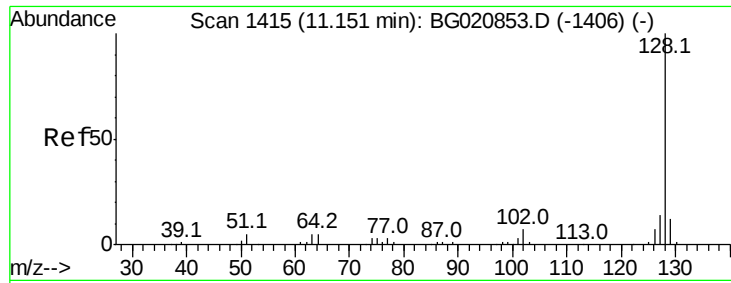
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 2/22/2016 10:55:24 AM



#30  
 1,2,4-Trichlorobenzene  
 Concen: 42.16 ng  
 RT: 10.94 min Scan# 1380  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 93.3  | 74.1  | 111.1 |
| 145     | 31.3  | 24.1  | 36.1  |





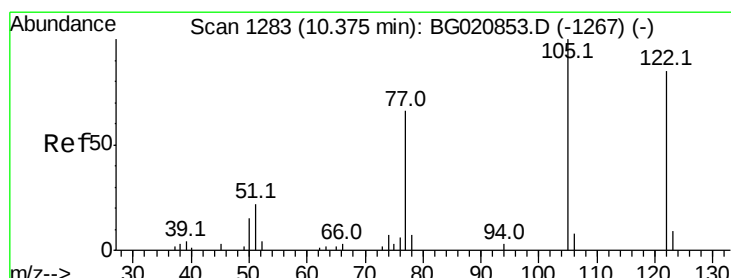
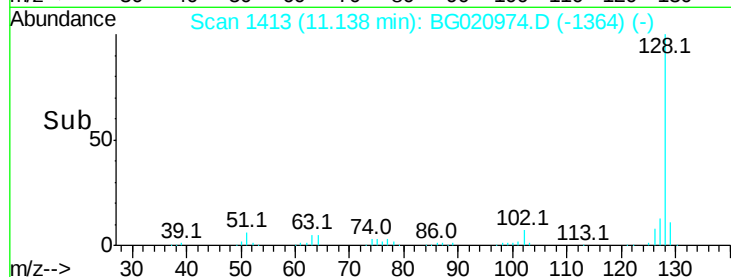
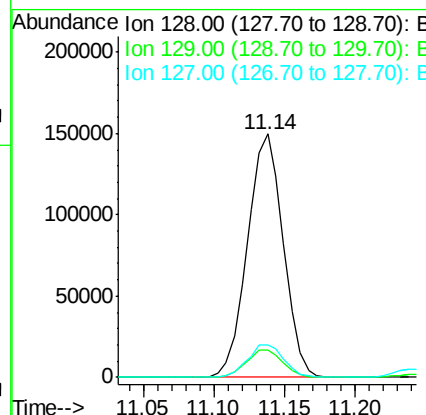
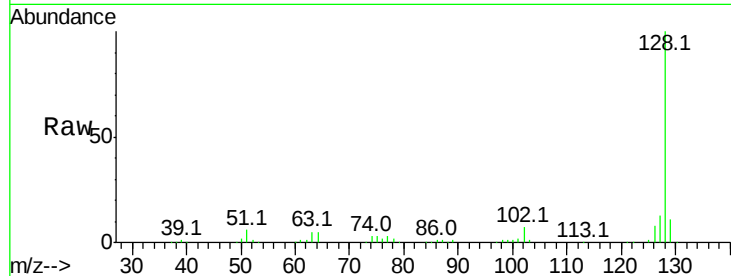
#31  
Naphthalene  
Concen: 49.89 ng  
RT: 11.14 min Scan# 1413  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 128   | Resp: | 265755 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 11.1  | 9.3   | 13.9   |
| 127       | 13.5  | 11.4  | 17.2   |

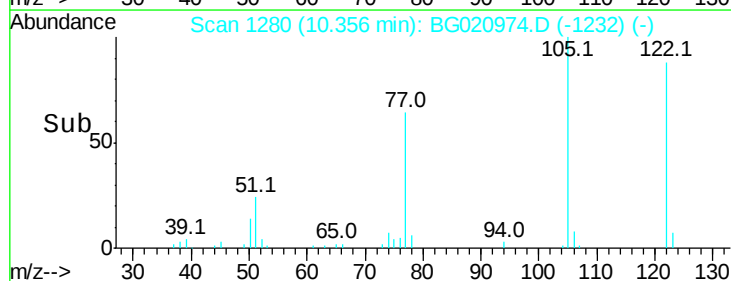
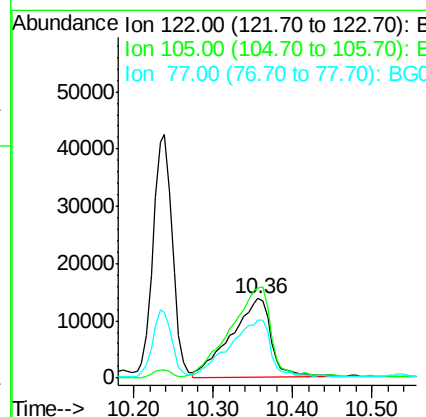
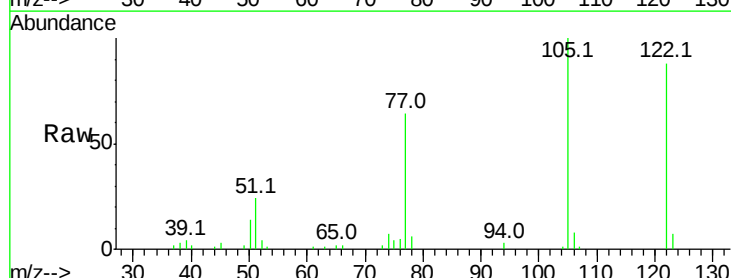
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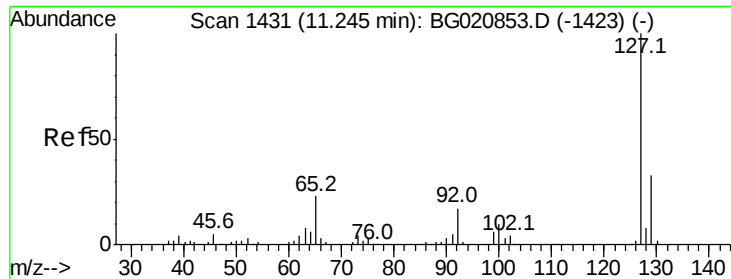
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#32  
Benzoic acid  
Concen: 36.14 ng  
RT: 10.36 min Scan# 1280  
Delta R.T. -0.02 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 122   | Resp: | 47722 |
| Ion Ratio | Lower | Upper |       |
| 122       | 100   |       |       |
| 105       | 113.6 | 94.0  | 134.0 |
| 77        | 72.8  | 56.8  | 96.8  |





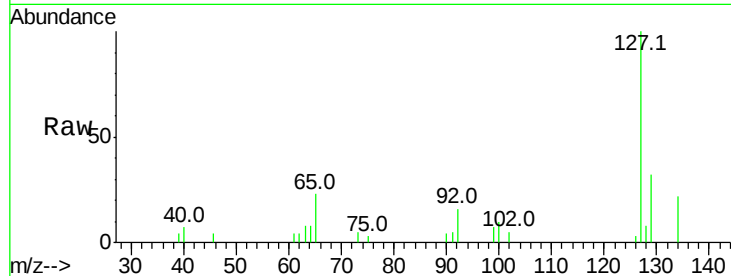
#33  
4-Chloroaniline  
Concen: 4.21 ng  
RT: 11.24 min Scan# 1431  
Delta R.T. -0.00 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 127     | 100   |       |       |
| 129     | 32.0  | 26.2  | 39.4  |
| 65      | 22.9  | 18.6  | 27.8  |
| 92      | 16.2  | 13.3  | 19.9  |

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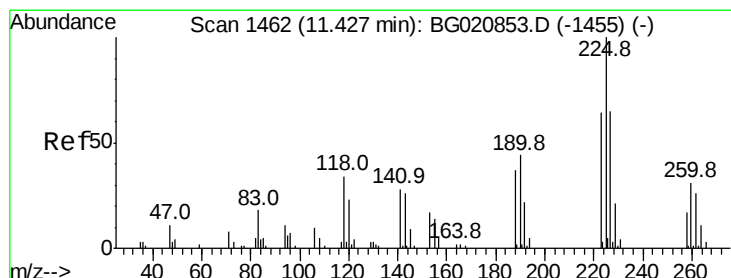
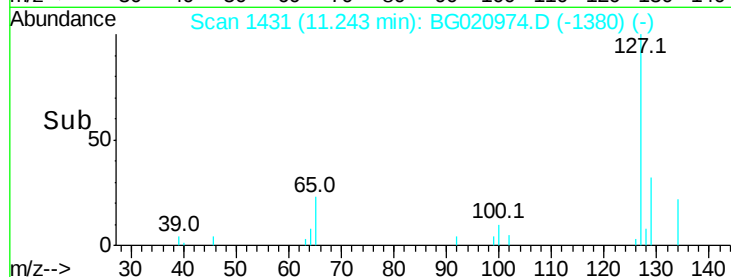
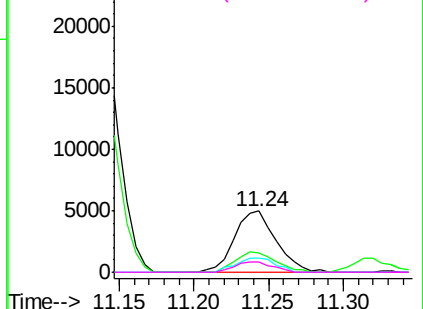
Abundance

Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

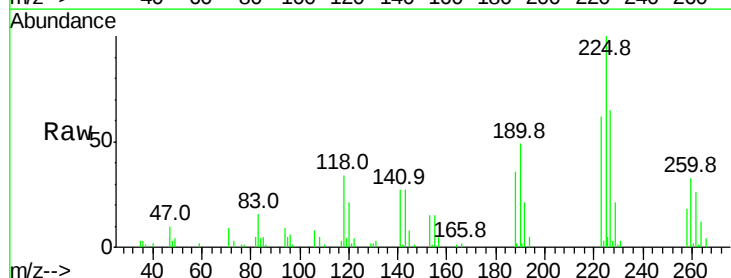
Ion 65.00 (64.70 to 65.70): BG0

Ion 92.00 (91.70 to 92.70): BG0



#34  
Hexachlorobutadiene  
Concen: 40.64 ng  
RT: 11.41 min Scan# 1460  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 61.8  | 51.0  | 76.6  |
| 227     | 64.5  | 51.7  | 77.5  |

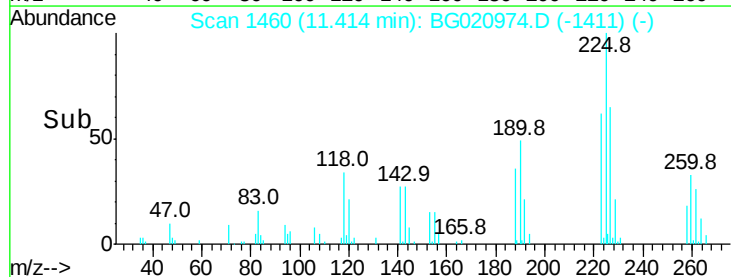
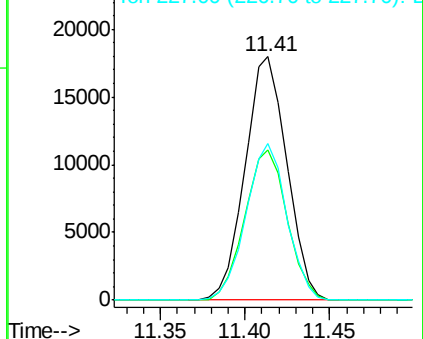


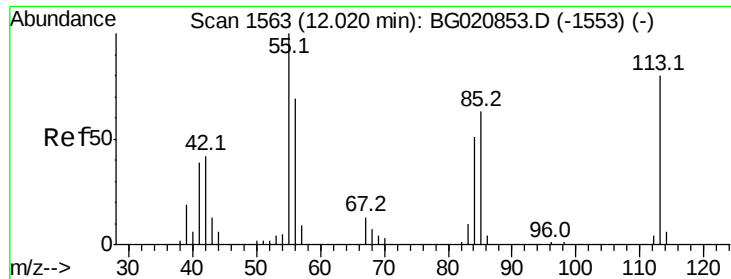
Abundance

Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 46.31 ng/mL

RT: 12.01 min Scan# 1561

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

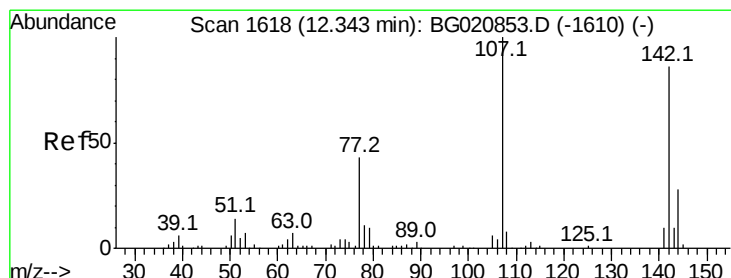
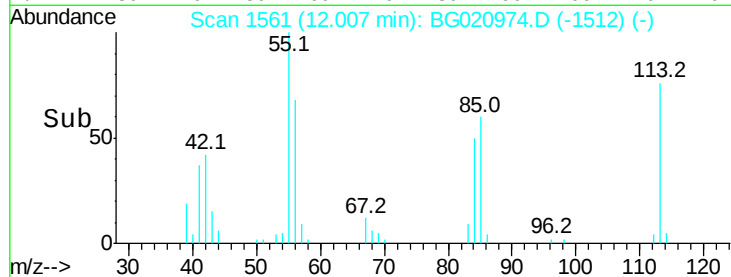
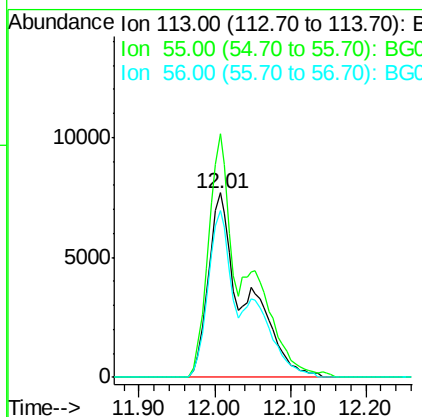
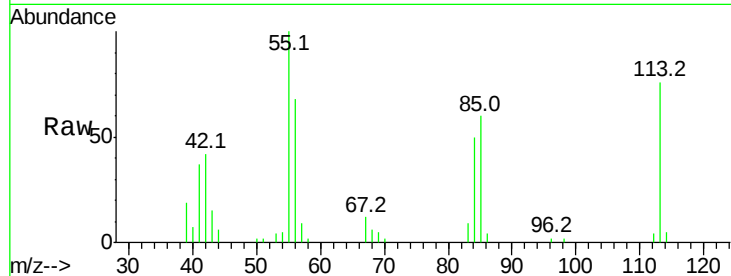
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 113   | Resp: | 26181 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 55        | 131.9 | 104.4 | 144.4 |
| 56        | 90.1  | 65.4  | 105.4 |

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#36

4-Chloro-3-methylphenol

Concen: 50.19 ng/mL

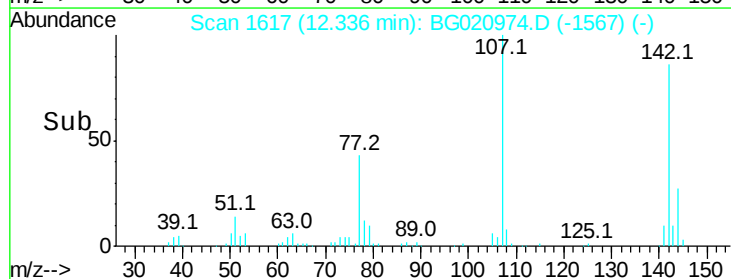
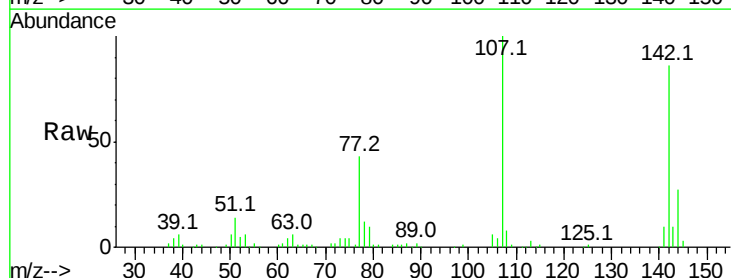
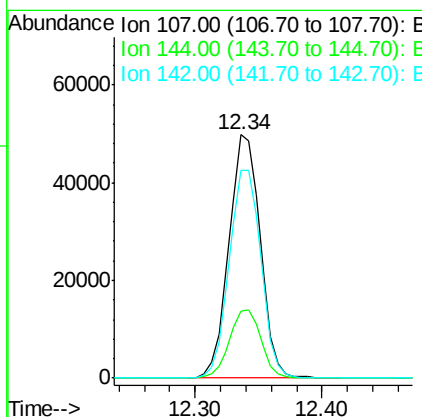
RT: 12.34 min Scan# 1617

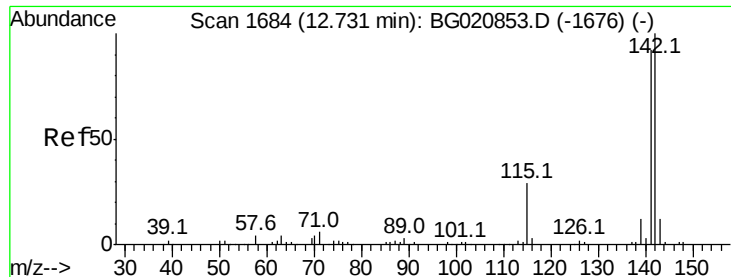
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 107   | Resp: | 84848 |
| Ion Ratio | Lower | Upper |       |
| 107       | 100   |       |       |
| 144       | 27.5  | 22.4  | 33.6  |
| 142       | 85.6  | 68.6  | 103.0 |





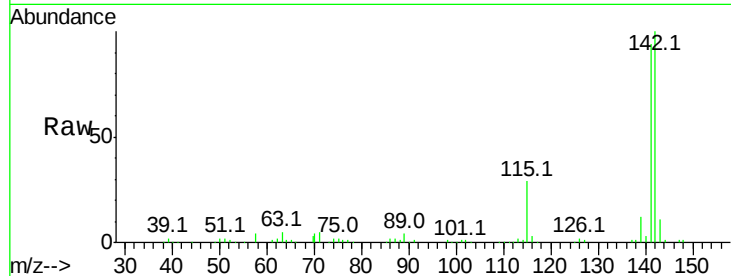
#37  
 2-Methylnaphthalene  
 Concen: 48.10 ng  
 RT: 12.72 min Scan# 1682  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

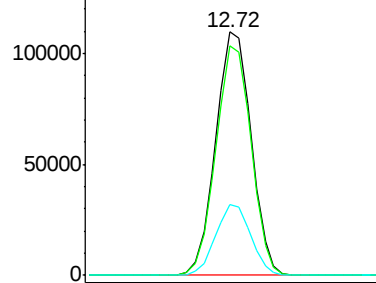
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 94.4  | 73.4  | 110.2 |
| 115     | 28.9  | 23.0  | 34.6  |

Manual Integrations  
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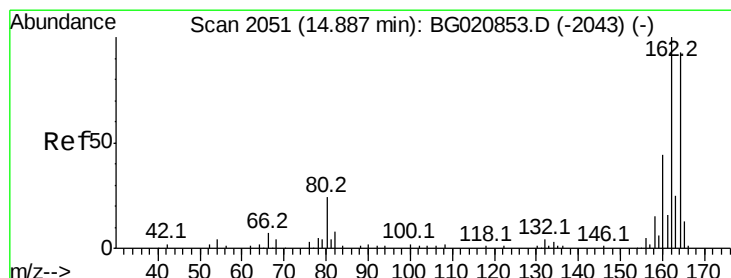
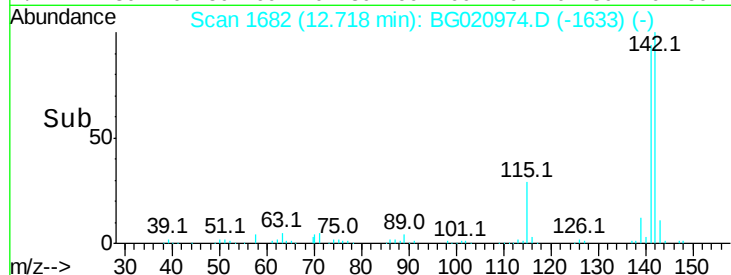
UMANGI  
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Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 115.00 (114.70 to 115.70): E



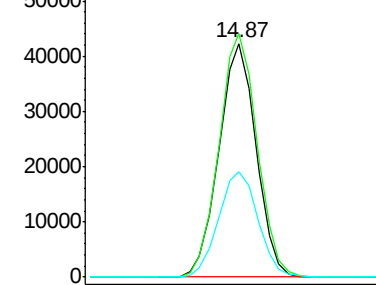
Time-->



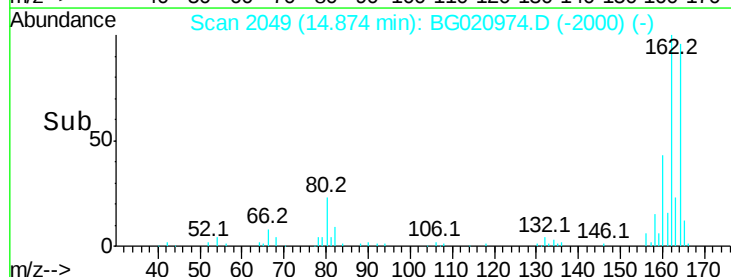
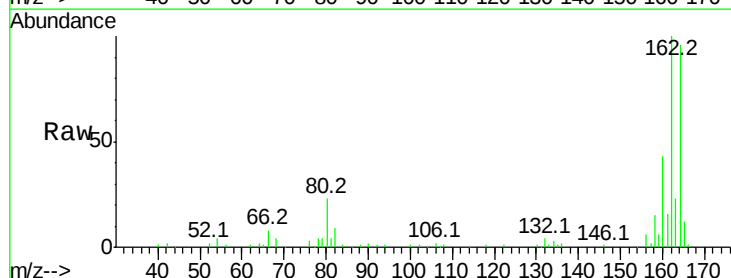
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 14.87 min Scan# 2049  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

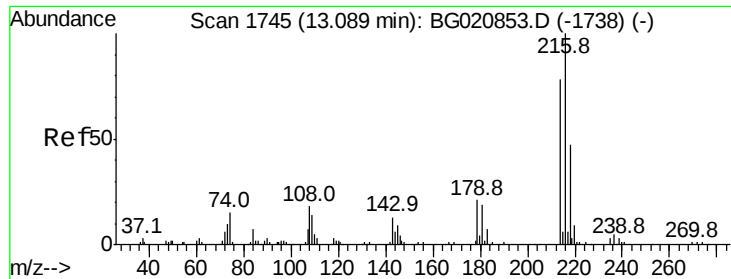
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.3 | 85.7  | 128.5 |
| 160     | 45.3  | 37.4  | 56.0  |

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



Time-->





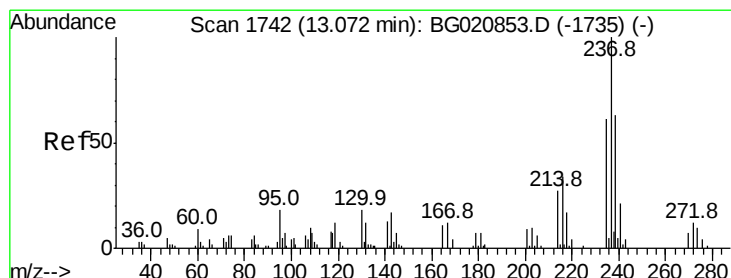
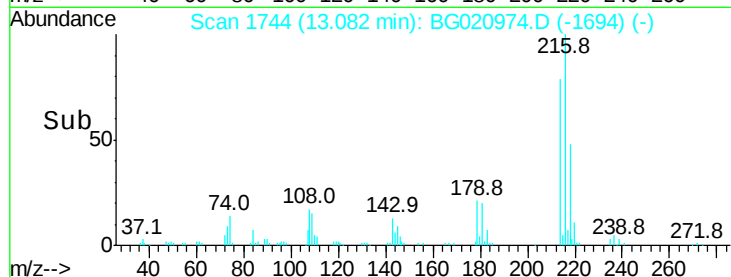
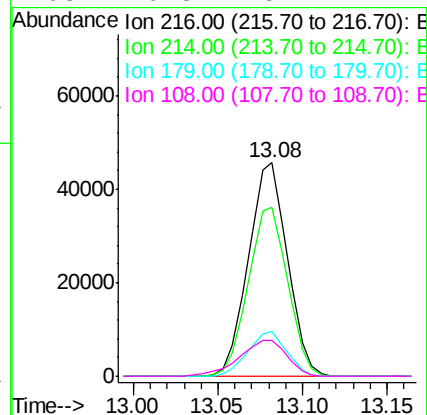
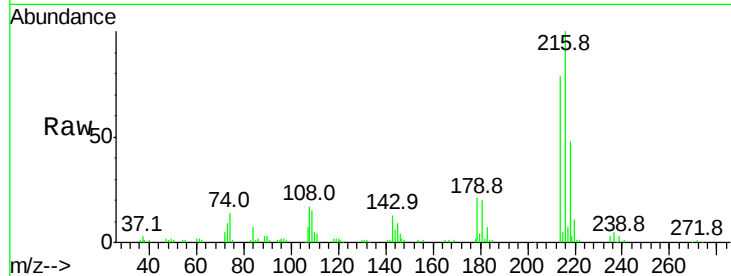
#39  
 1,2,4,5-Tetrachlorobenzene  
 Concen: 38.73 ng  
 RT: 13.08 min Scan# 1744  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 216   | Resp: | 73447 |
| Ion Ratio | Lower | Upper |       |
| 216       | 100   |       |       |
| 214       | 79.8  | 61.9  | 92.9  |
| 179       | 20.8  | 16.5  | 24.7  |
| 108       | 20.3  | 15.1  | 22.7  |

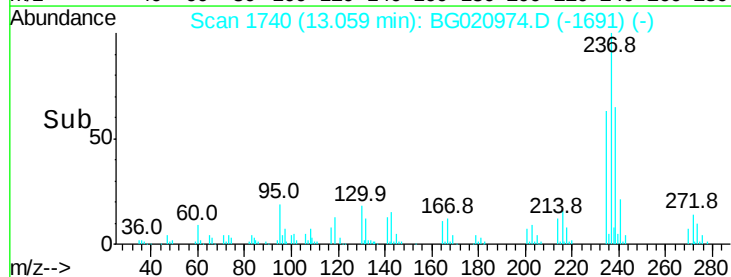
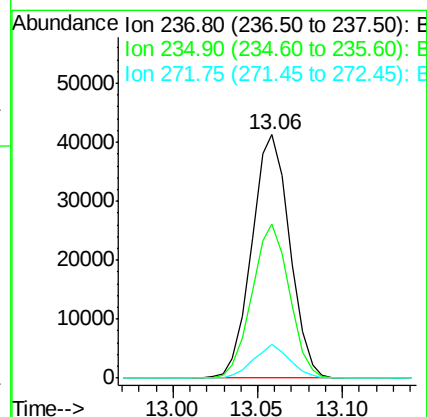
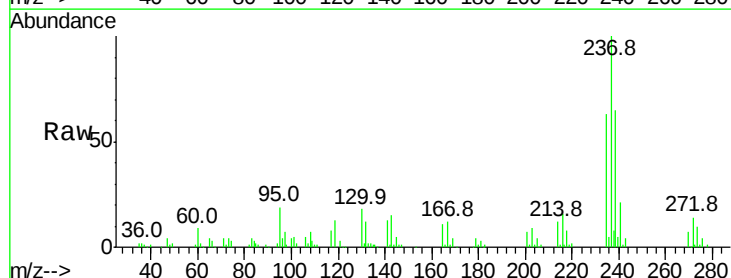
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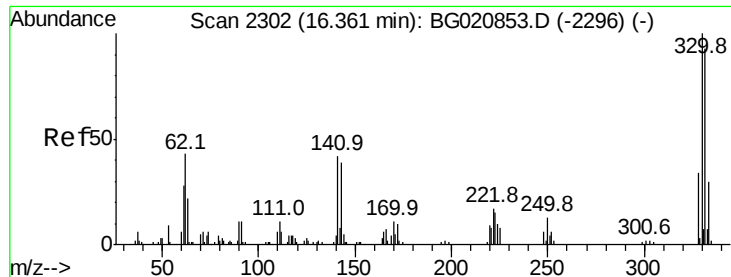
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#40  
 Hexachlorocyclopentadiene  
 Concen: 76.92 ng  
 RT: 13.06 min Scan# 1740  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 64176 |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 235       | 63.4  | 40.8  | 80.8  |
| 272       | 13.7  | 0.0   | 32.3  |





#41

2,4,6-Tribromophenol

Concen: 161.26 ng

RT: 16.35 min Scan# 2301

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

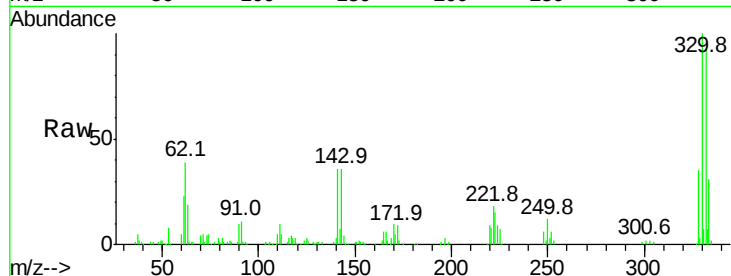
ClientSampleId :

SOIL-CUTTINGSMS

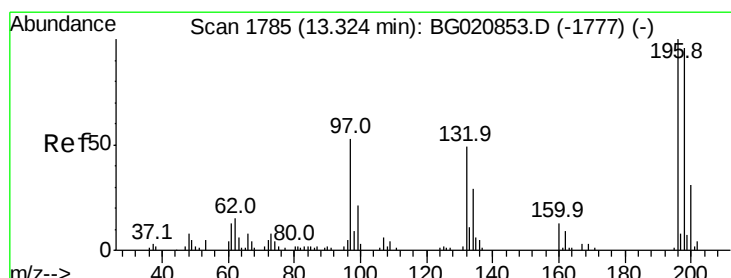
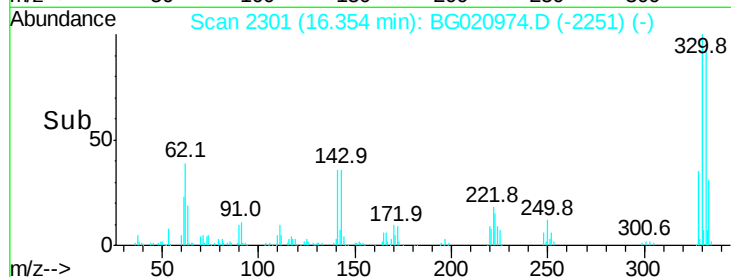
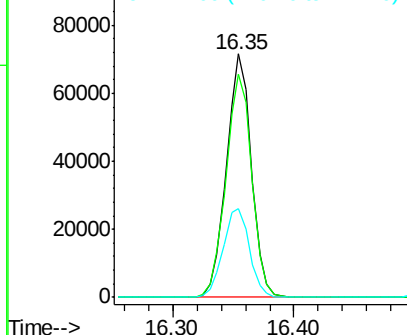
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 330   | Resp: | 102519 |
| Ion Ratio | Lower | Upper |        |
| 330       | 100   |       |        |
| 332       | 95.0  | 76.1  | 114.1  |
| 141       | 38.5  | 32.0  | 48.0   |

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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: 46.37 ng

RT: 13.31 min Scan# 1783

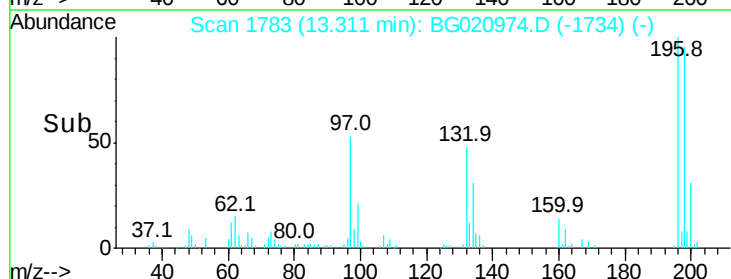
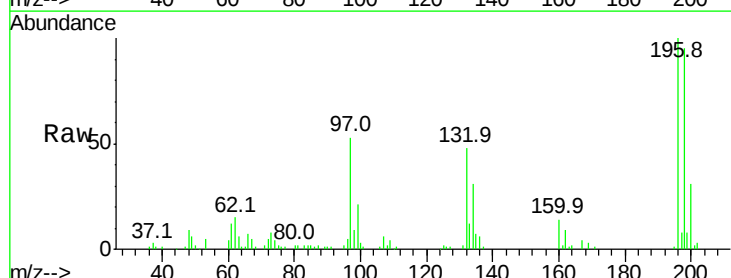
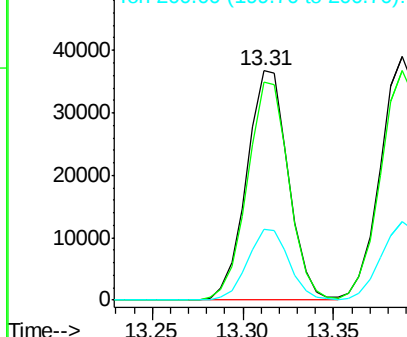
Delta R.T. -0.01 min

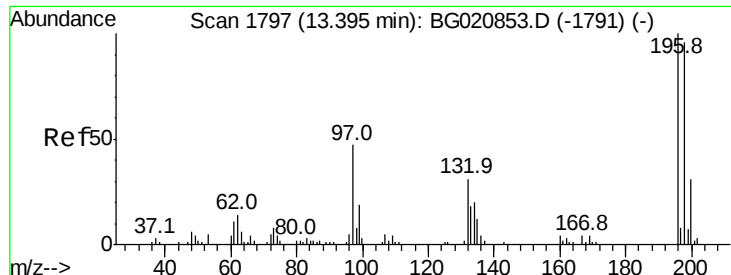
Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 196   | Resp: | 59075 |
| Ion Ratio | Lower | Upper |       |
| 196       | 100   |       |       |
| 198       | 95.3  | 77.1  | 115.7 |
| 200       | 31.0  | 24.7  | 37.1  |

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





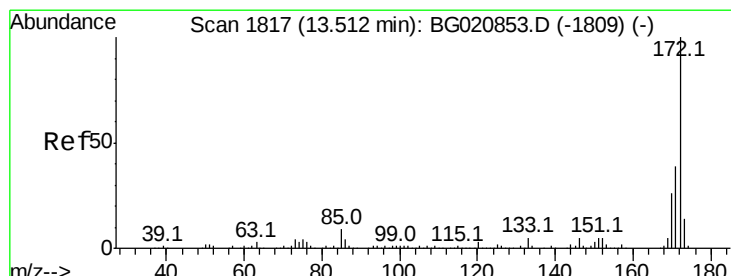
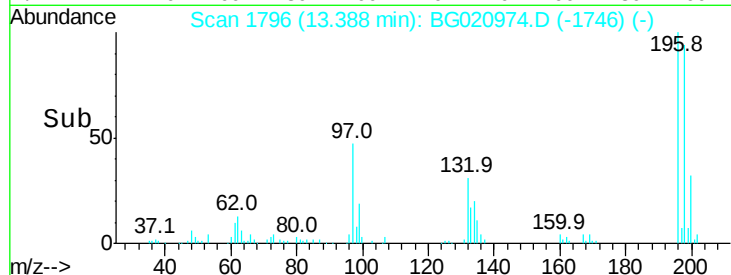
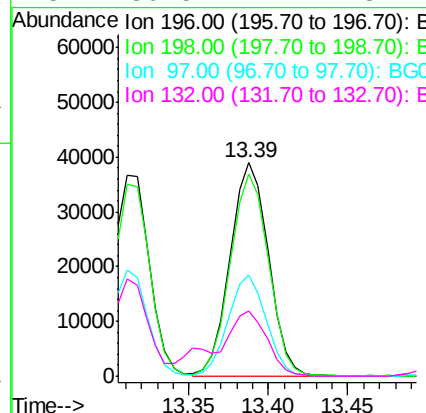
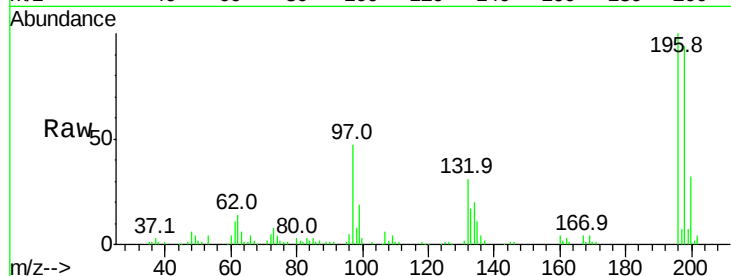
#43  
 2,4,5-Trichlorophenol  
 Concen: 48.86 ng  
 RT: 13.39 min Scan# 1796  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 196     | 100   | 65446 |       |       |
| 198     | 94.4  | 76.4  | 114.6 |       |
| 97      | 47.1  | 37.4  | 56.0  |       |
| 132     | 30.5  | 24.7  | 37.1  |       |

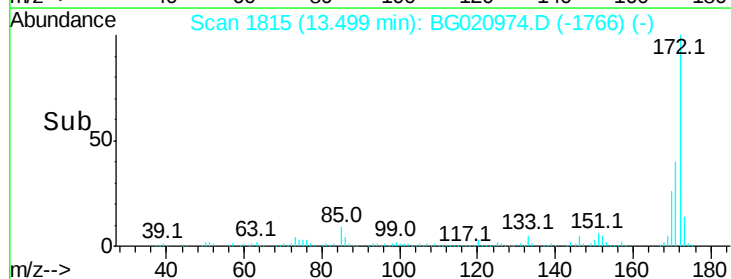
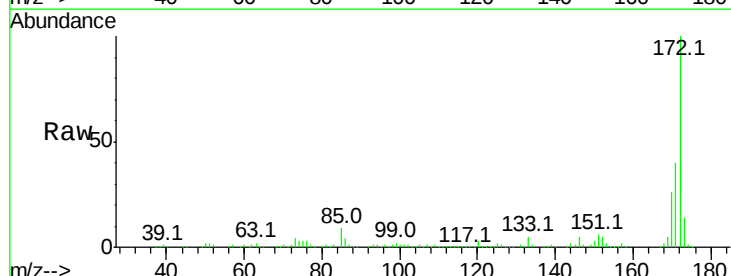
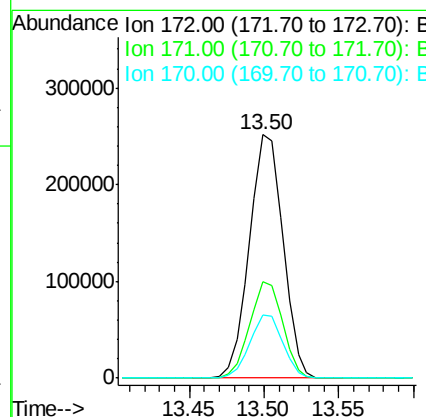
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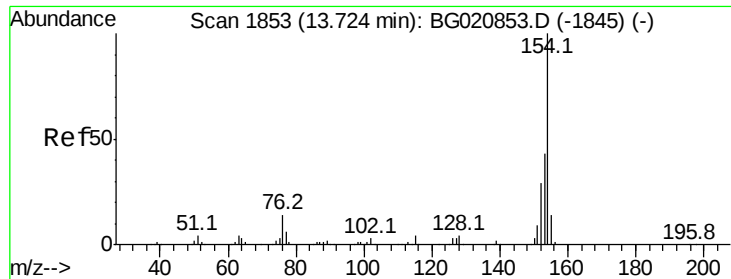
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#44  
 2-Fluorobiphenyl  
 Concen: 84.95 ng  
 RT: 13.50 min Scan# 1815  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 390959 |       |       |
| 171     | 39.5  | 31.2   | 46.8  |       |
| 170     | 25.9  | 20.6   | 30.8  |       |





#45

1,1'-Biphenyl

Concen: 40.19 ng

RT: 13.71 min Scan# 1851

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

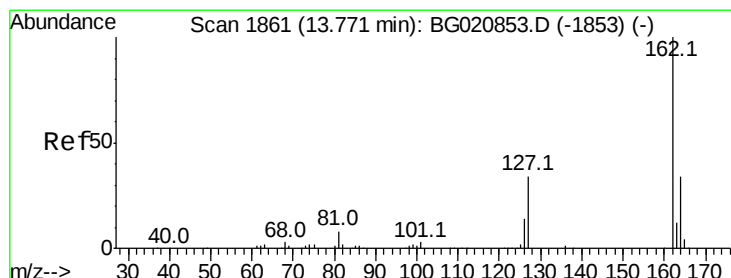
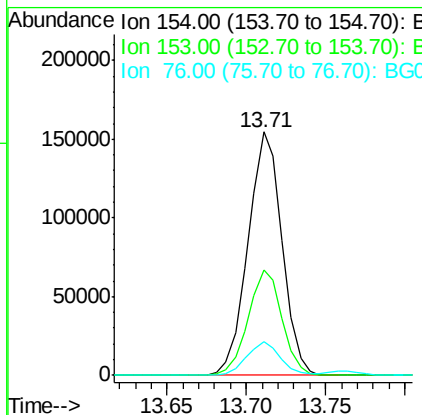
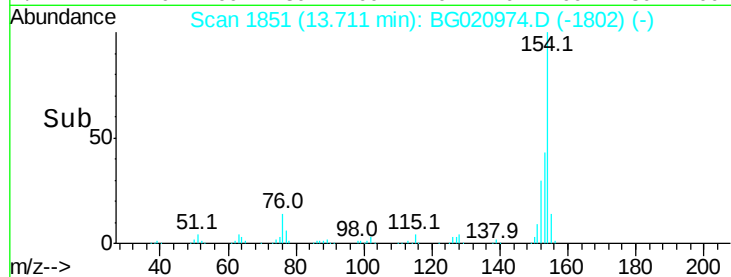
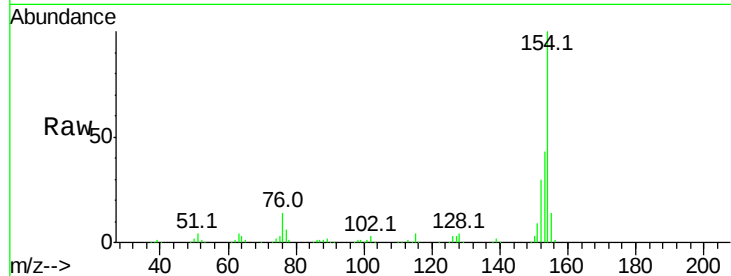
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 229187 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 43.2  | 22.5  | 62.5   |
| 76        | 14.0  | 0.0   | 33.8   |

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#46

2-Chloronaphthalene

Concen: 42.06 ng

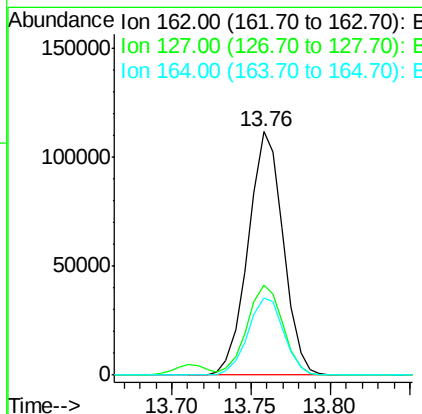
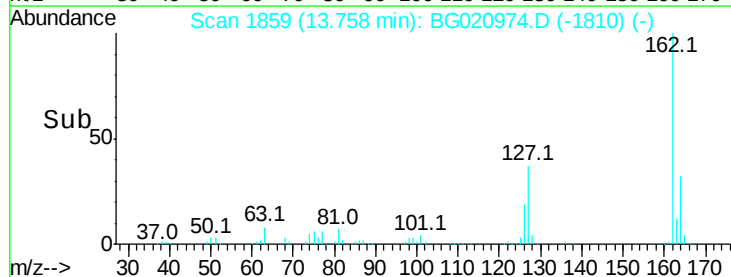
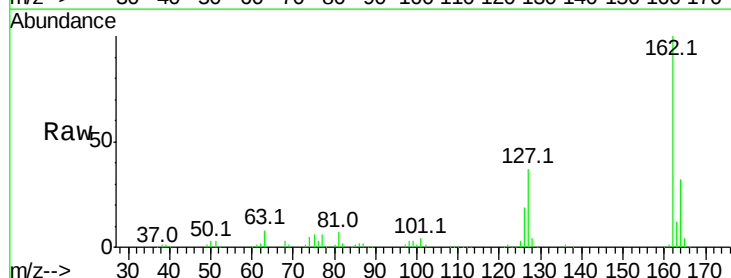
RT: 13.76 min Scan# 1859

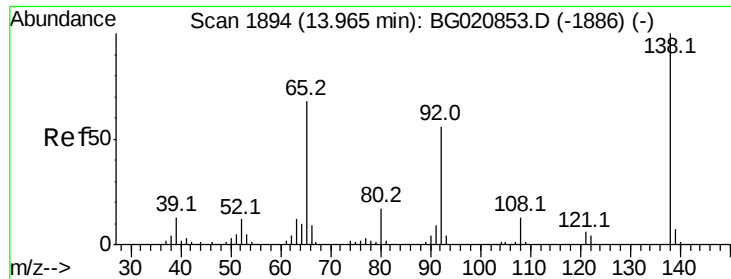
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 162   | Resp: | 171746 |
| Ion Ratio | Lower | Upper |        |
| 162       | 100   |       |        |
| 127       | 36.8  | 30.6  | 45.8   |
| 164       | 31.9  | 26.8  | 40.2   |





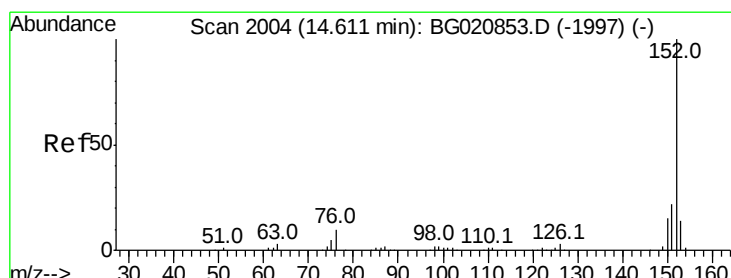
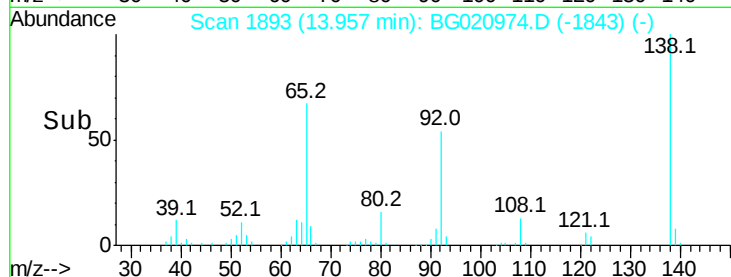
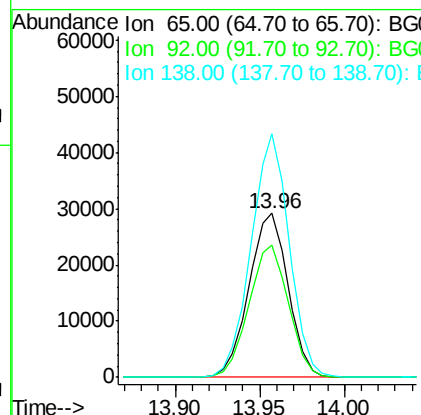
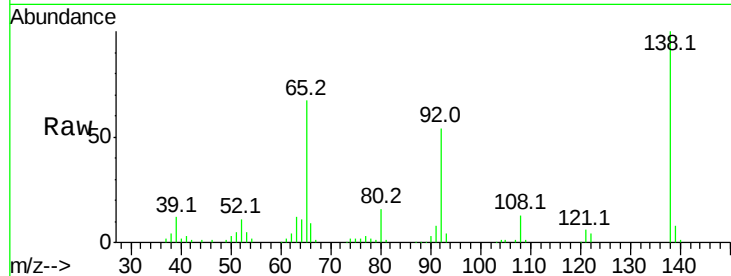
#47  
2-Nitroaniline  
Concen: 47.90 ng  
RT: 13.96 min Scan# 1893  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 80.8  | 65.8  | 98.8  |
| 138     | 148.4 | 117.1 | 175.7 |

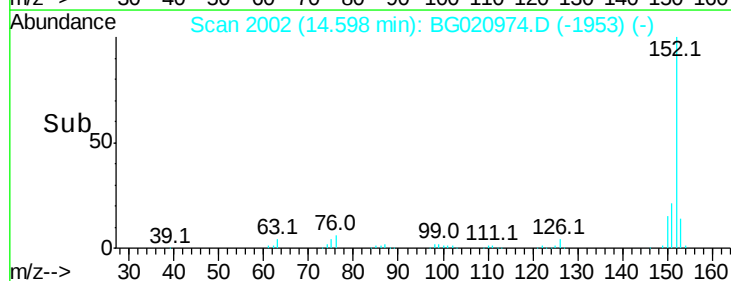
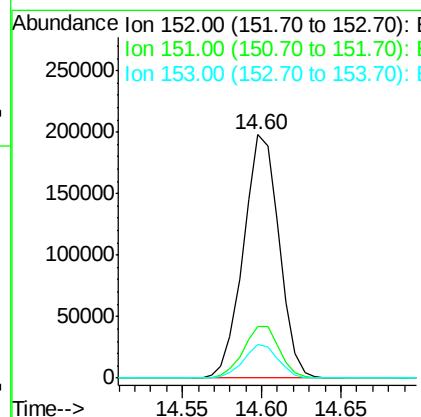
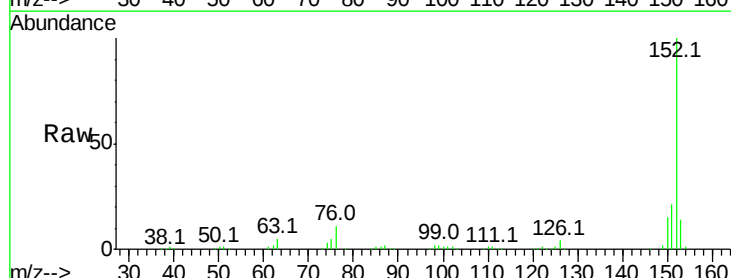
Manual Integrations  
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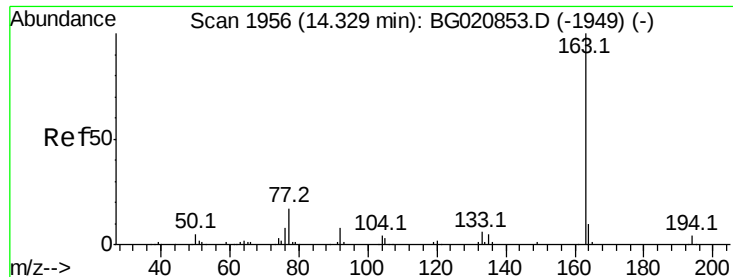
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#48  
Acenaphthylene  
Concen: 43.56 ng  
RT: 14.60 min Scan# 2002  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 21.4  | 17.5  | 26.3  |
| 153     | 13.7  | 10.9  | 16.3  |





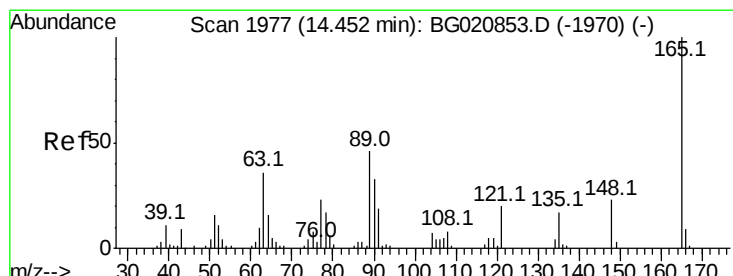
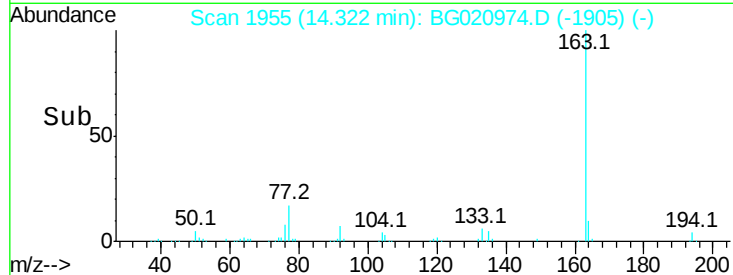
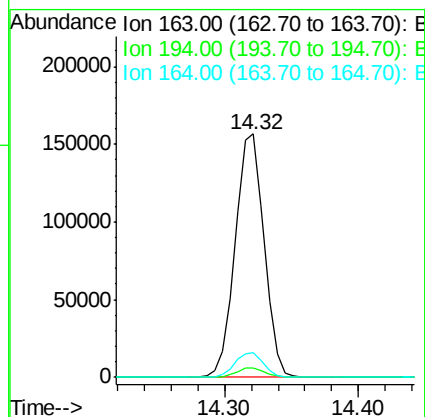
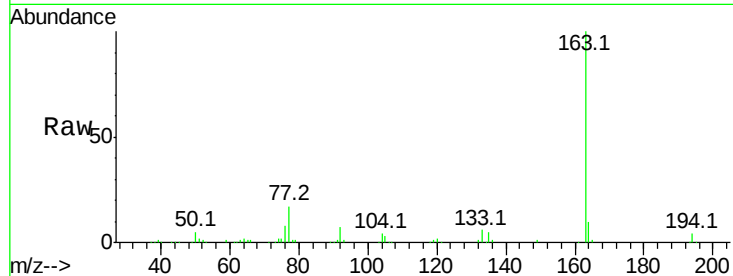
#49  
Dimethylphthalate  
Concen: 46.63 ng  
RT: 14.32 min Scan# 1955  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 163     | 100   |            |       |
| 194     | 4.1   | 3.1        | 4.7   |
| 164     | 10.1  | 8.3        | 12.5  |

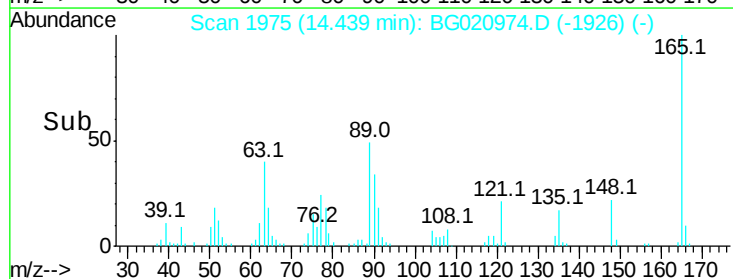
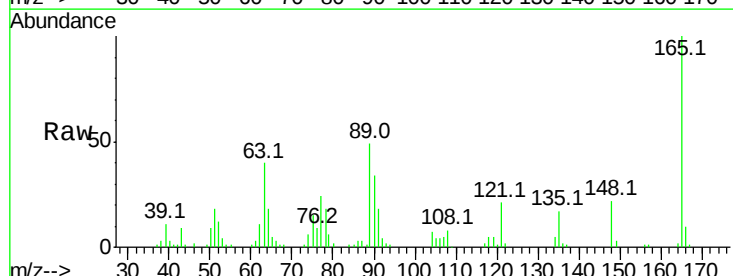
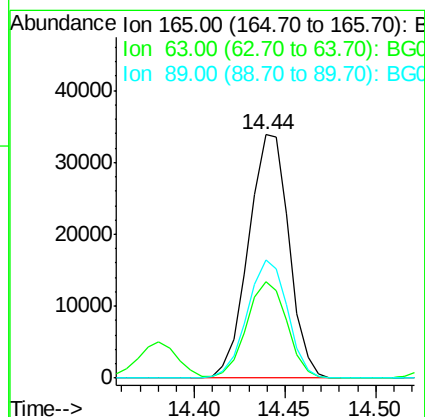
Manual Integrations  
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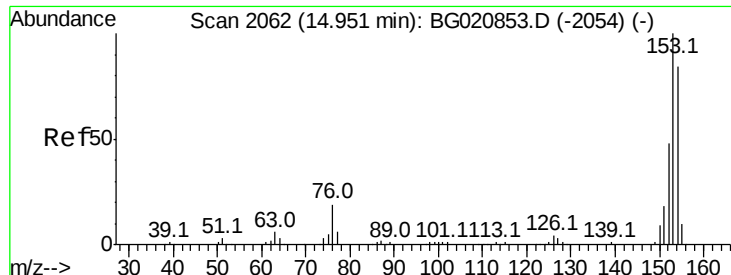
UMANGI  
2/22/2016 10:55:24 AM



#50  
2,6-Dinitrotoluene  
Concen: 48.87 ng  
RT: 14.44 min Scan# 1975  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 165     | 100   |            |       |
| 63      | 39.6  | 30.3       | 45.5  |
| 89      | 48.7  | 36.9       | 55.3  |





#51

Acenaphthene

Concen: 49.09 ng

RT: 14.94 min Scan# 2060

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

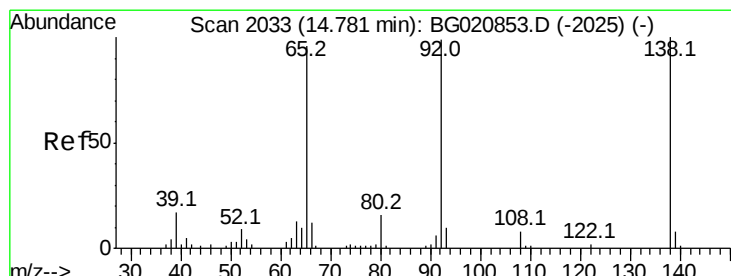
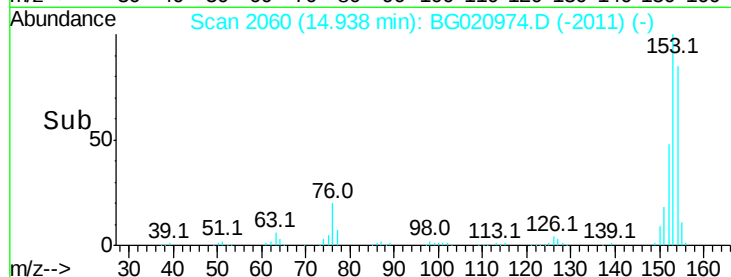
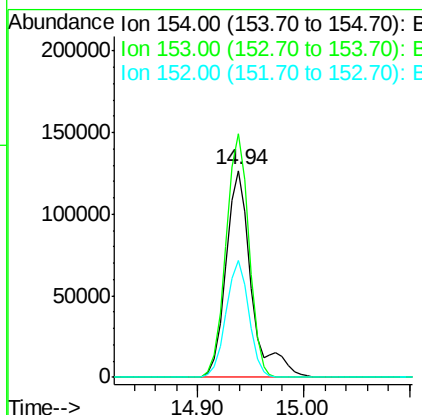
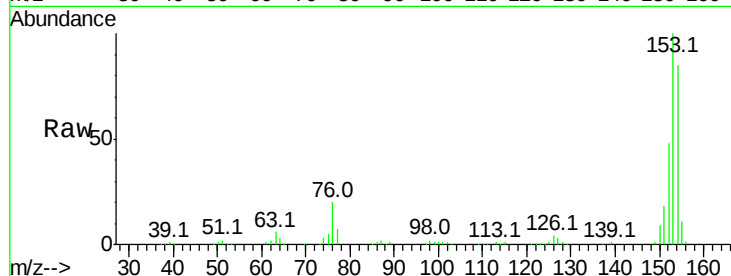
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 154   | Resp: | 211304 |
| Ion Ratio | Lower | Upper |        |
| 154       | 100   |       |        |
| 153       | 117.6 | 95.4  | 143.0  |
| 152       | 56.6  | 46.1  | 69.1   |

Manual Integrations  
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UMANGI  
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#52

3-Nitroaniline

Concen: 12.97 ng

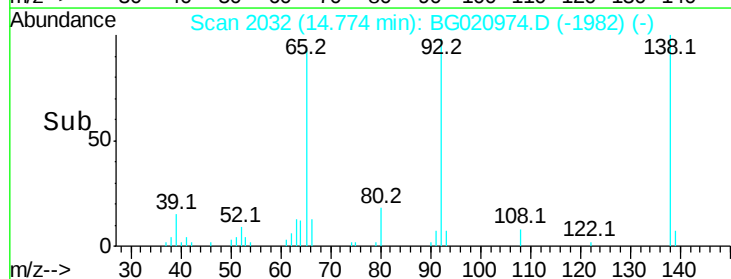
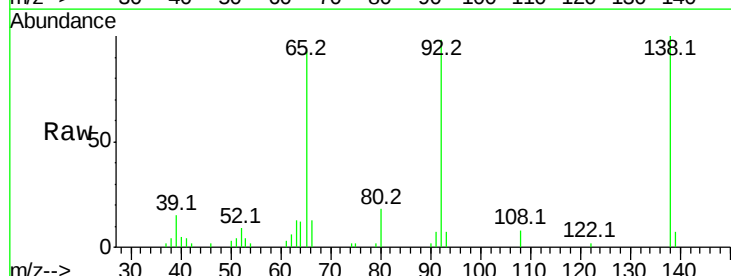
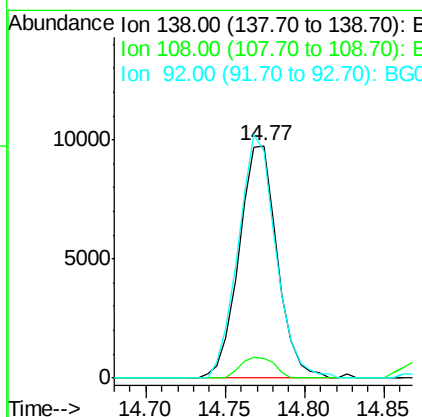
RT: 14.77 min Scan# 2032

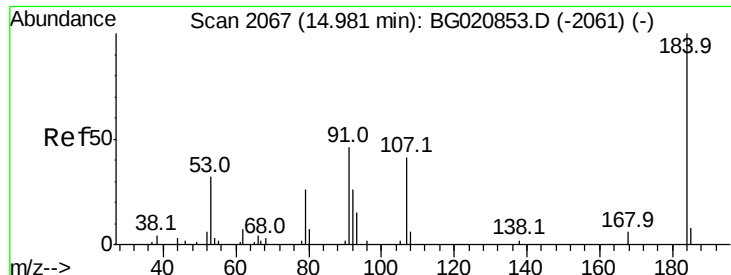
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 138   | Resp: | 16323 |
| Ion Ratio | Lower | Upper |       |
| 138       | 100   |       |       |
| 108       | 8.3   | 6.2   | 9.2   |
| 92        | 97.6  | 79.5  | 119.3 |





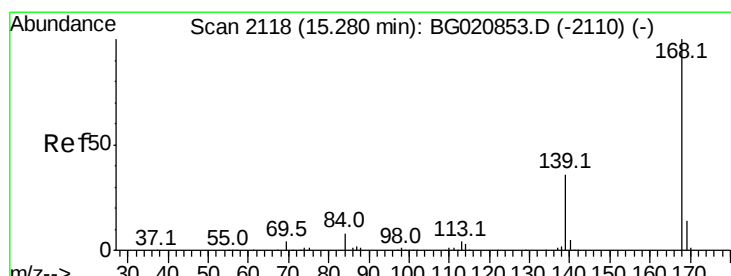
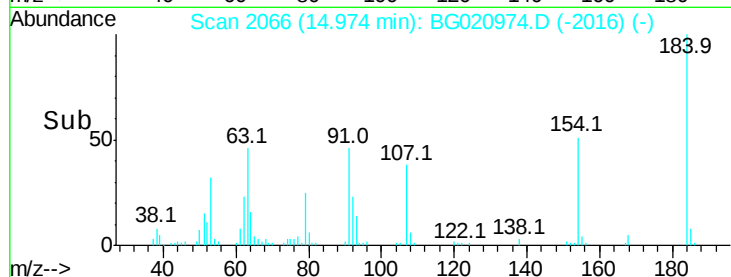
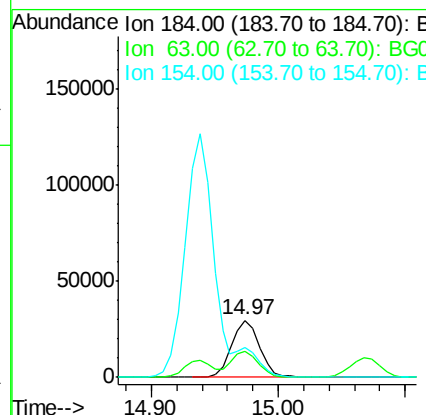
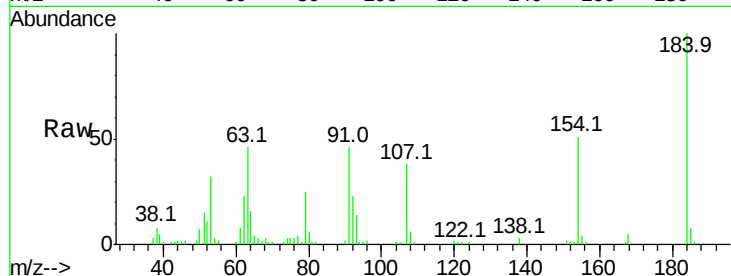
#53  
 2,4-Dinitrophenol  
 Concen: 97.33 ng  
 RT: 14.97 min Scan# 2066  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 184     | 100   |       |       |
| 63      | 46.2  | 39.8  | 59.6  |
| 154     | 51.3  | 48.1  | 72.1  |

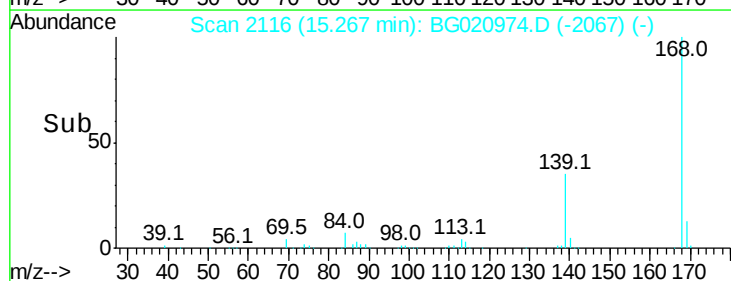
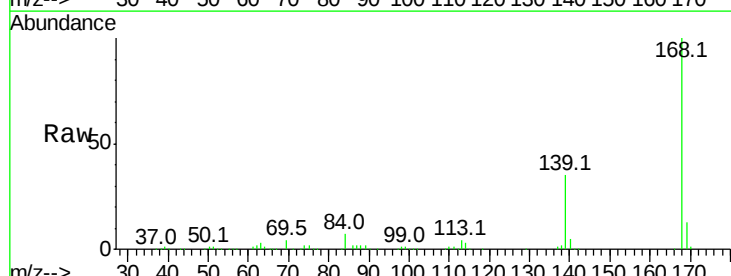
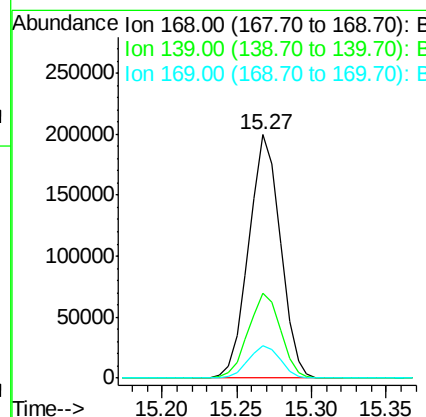
Manual Integrations  
 APPROVED

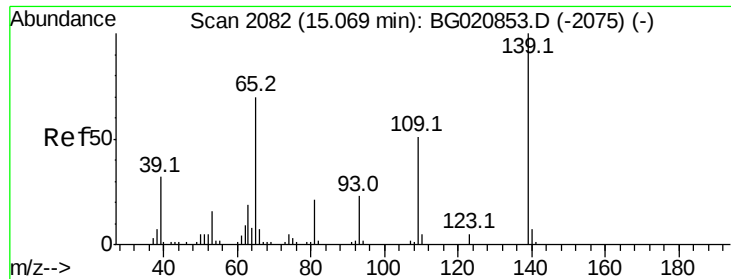
UMANGI  
 2/22/2016 10:55:24 AM



#54  
 Dibenzofuran  
 Concen: 51.30 ng  
 RT: 15.27 min Scan# 2116  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 35.0  | 28.5  | 42.7  |
| 169     | 13.3  | 11.0  | 16.4  |





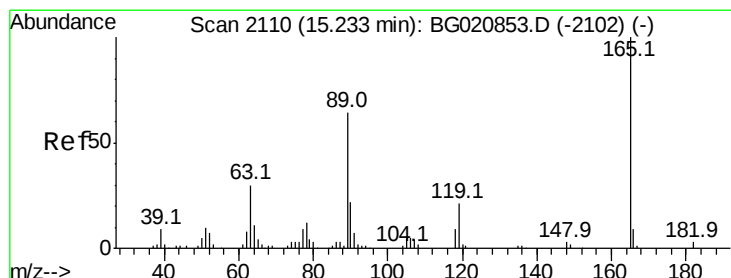
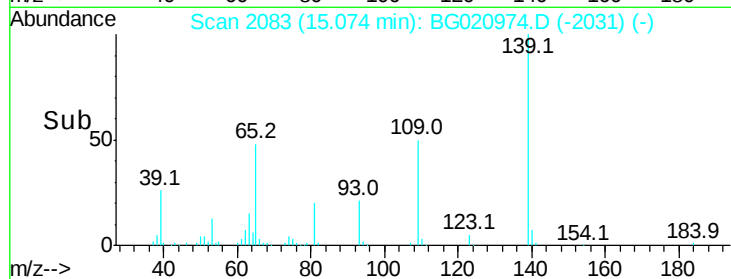
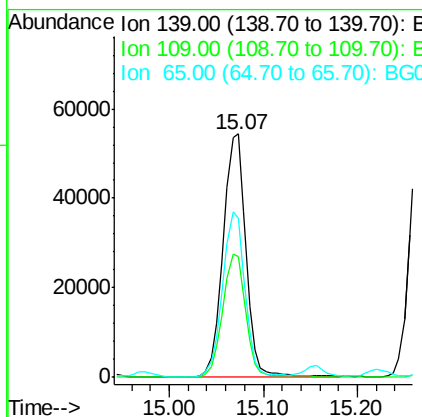
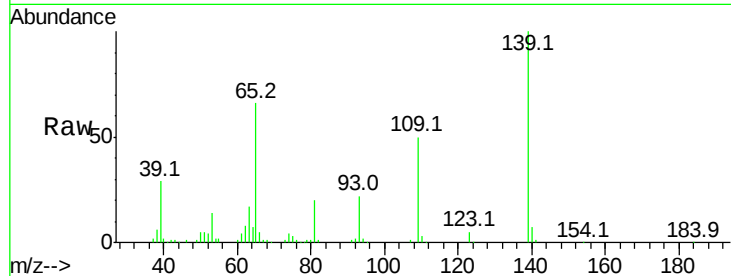
#55  
4-Nitrophenol  
Concen: 97.35 ng  
RT: 15.07 min Scan# 2083  
Delta R.T. 0.00 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 139     | 100   |      |       |       |
| 109     | 49.6  | 31.0 | 71.0  |       |
| 65      | 65.6  | 49.6 | 89.6  |       |

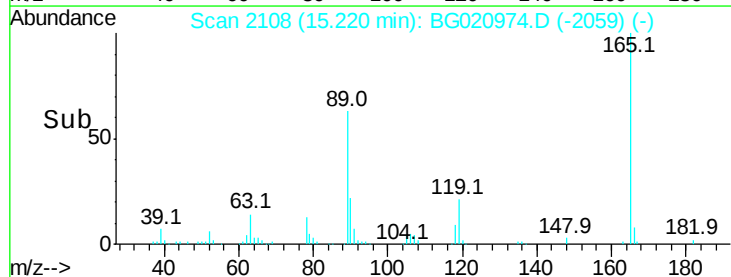
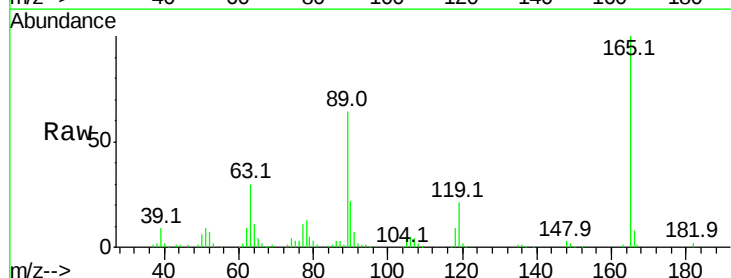
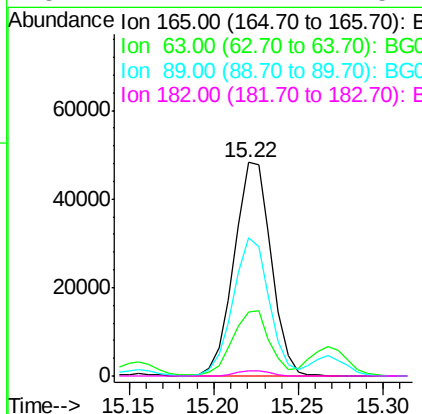
Manual Integrations  
APPROVED

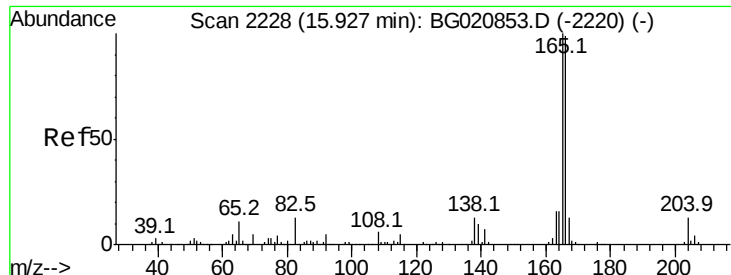
UMANGI  
2/22/2016 10:55:24 AM



#56  
2,4-Dinitrotoluene  
Concen: 52.59 ng  
RT: 15.22 min Scan# 2108  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 165     | 100   |      |       |       |
| 63      | 30.2  | 23.7 | 35.5  |       |
| 89      | 64.5  | 50.9 | 76.3  |       |
| 182     | 2.4   | 2.2  | 3.2   |       |





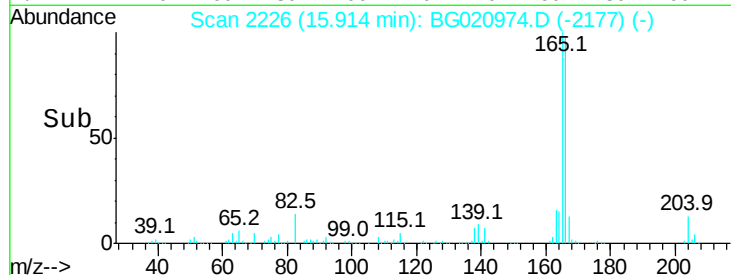
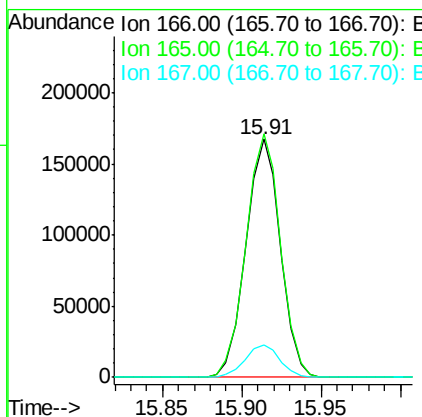
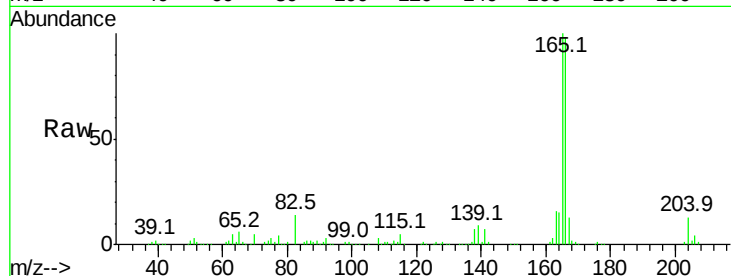
#57  
 Fluorene  
 Concen: 48.12 ng  
 RT: 15.91 min Scan# 2226  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 166     | 100   |      |       |       |
| 165     | 102.1 | 81.0 | 121.4 |       |
| 167     | 13.6  | 10.8 | 16.2  |       |

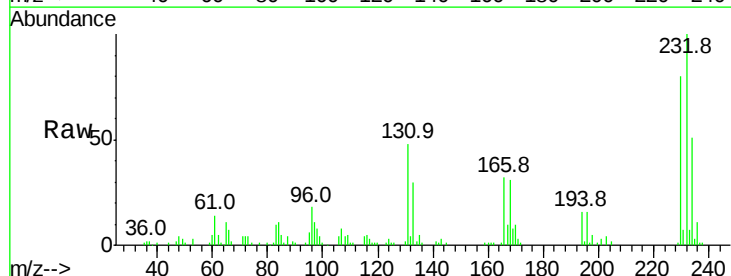
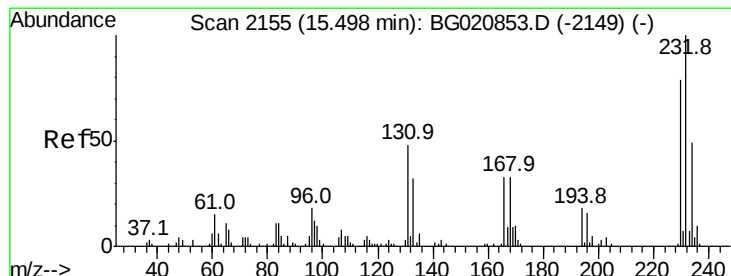
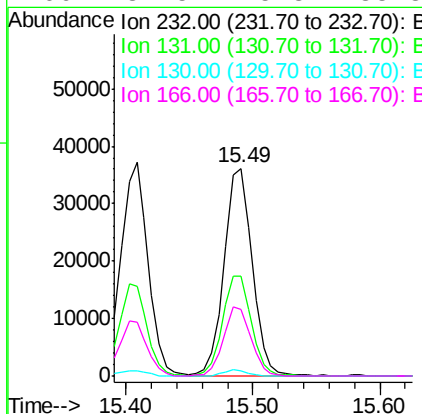
Manual Integrations  
 APPROVED

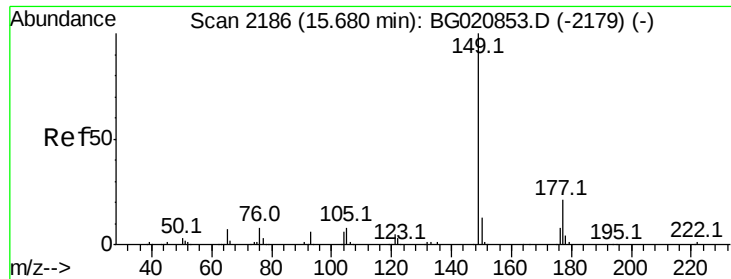
UMANGI  
 2/22/2016 10:55:24 AM



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 54.51 ng  
 RT: 15.49 min Scan# 2154  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 232     | 100   |      |       |       |
| 131     | 49.1  | 39.2 | 58.8  |       |
| 130     | 2.3   | 2.0  | 3.0   |       |
| 166     | 32.5  | 25.8 | 38.8  |       |





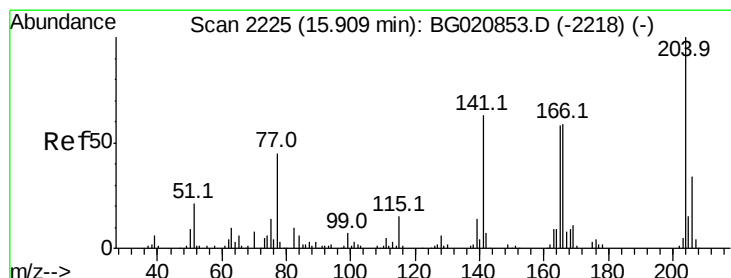
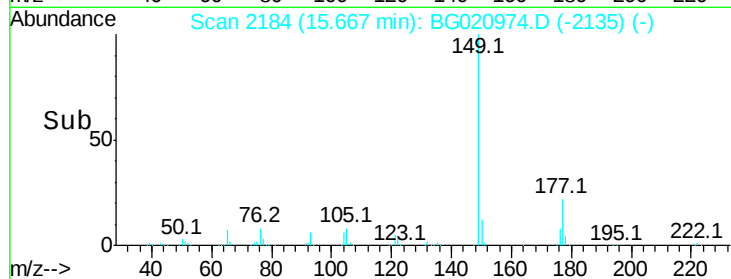
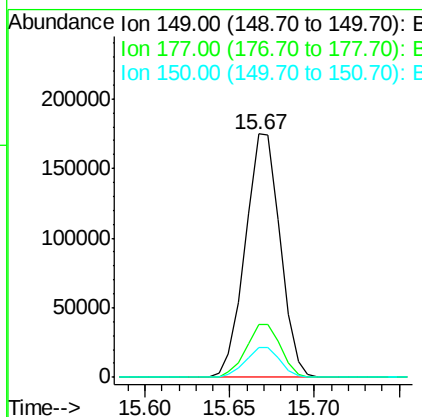
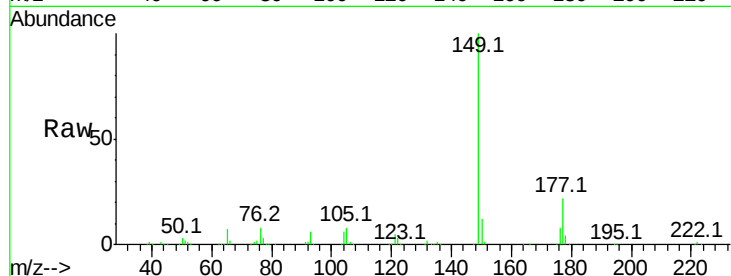
#59  
Diethylphthalate  
Concen: 48.39 ng  
RT: 15.67 min Scan# 2184  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 149     | 100   | 251448 |       |       |
| 177     | 21.5  | 16.9   | 25.3  |       |
| 150     | 12.2  | 10.1   | 15.1  |       |

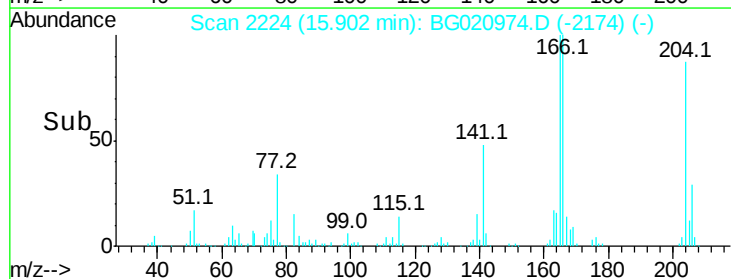
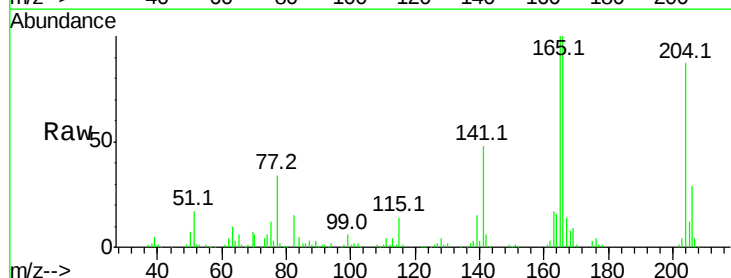
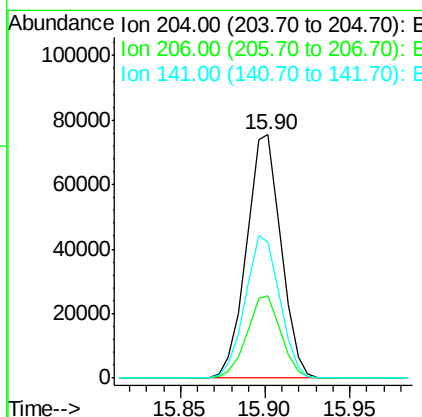
Manual Integrations  
APPROVED

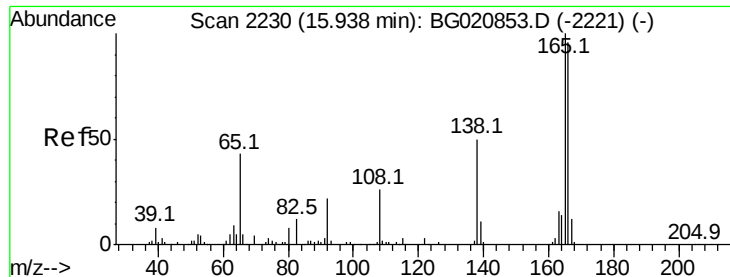
UMANGI  
2/22/2016 10:55:24 AM



#60  
4-Chlorophenyl-phenylether  
Concen: 46.05 ng  
RT: 15.90 min Scan# 2224  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 204     | 100   | 107242 |       |       |
| 206     | 33.6  | 26.9   | 40.3  |       |
| 141     | 55.8  | 50.3   | 75.5  |       |





#61

4-Nitroaniline

Concen: 35.94 ng

RT: 15.93 min Scan# 2229

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

ClientSampleId :

SOIL-CUTTINGSMS

Tot Ion:138 Resp: 45414

Ion Ratio Lower Upper

138 100

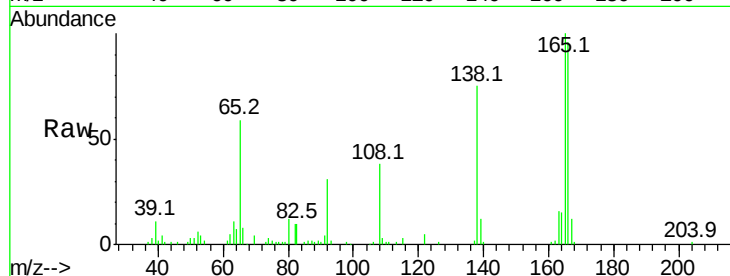
92 41.1 24.1 64.1

108 50.5 32.4 72.4

Manual Integrations  
APPROVED

UMANGI

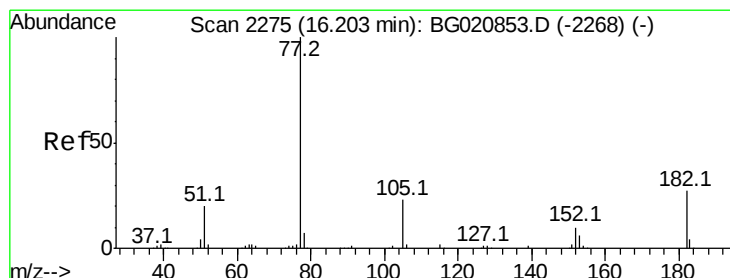
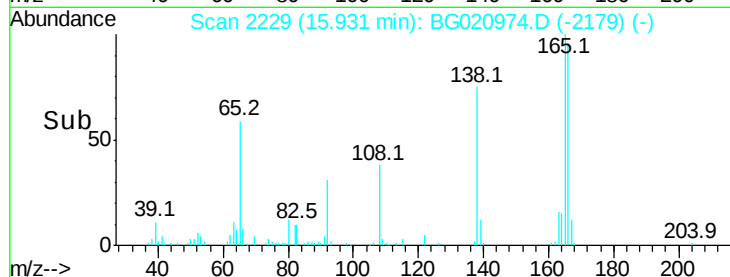
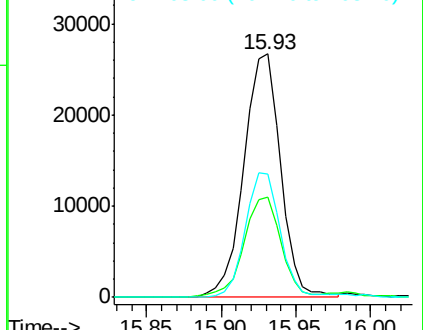
2/22/2016 10:55:24 AM



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



#62

Azobenzene

Concen: 49.06 ng

RT: 16.19 min Scan# 2273

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Tgt Ion: 77 Resp: 200463

Ion Ratio Lower Upper

77 100

182 26.8 6.8 46.8

105 23.7 3.4 43.4

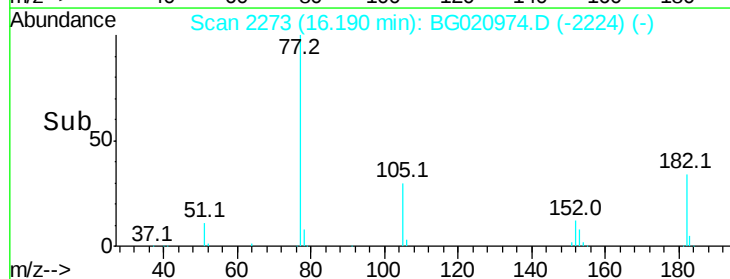
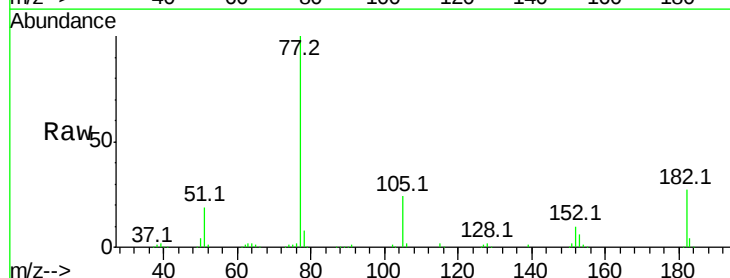
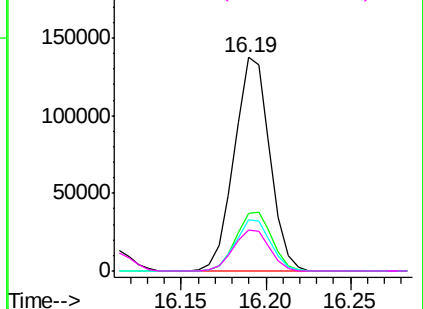
51 19.4 0.0 39.9

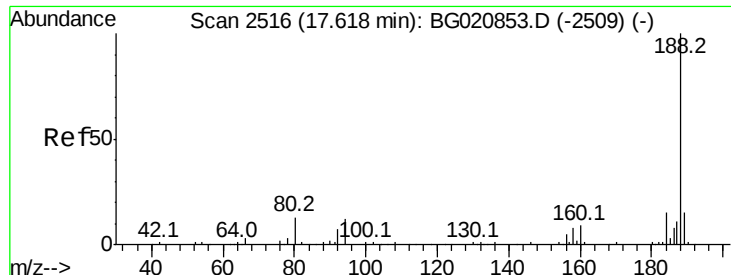
Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BGC





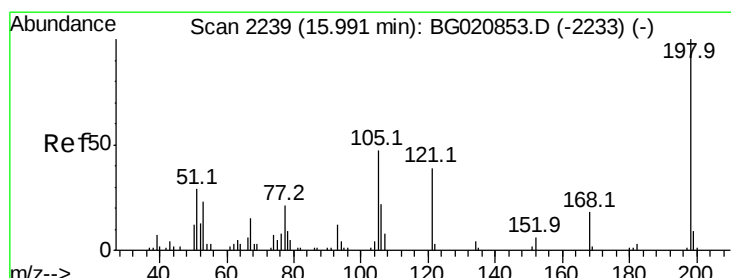
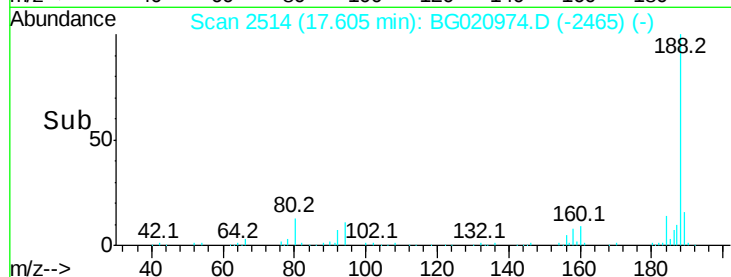
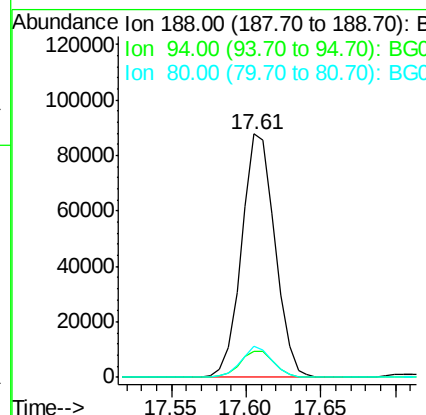
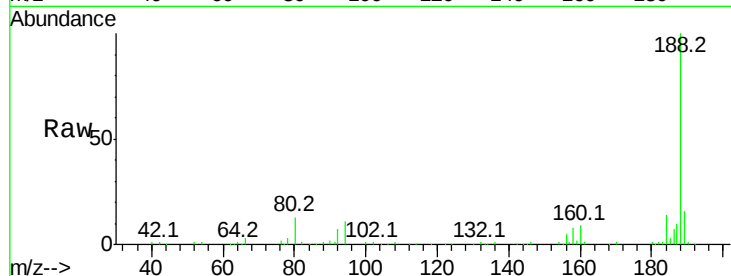
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.61 min Scan# 2514  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 10.9  | 9.4        | 14.0  |
| 80      | 12.8  | 10.2       | 15.4  |

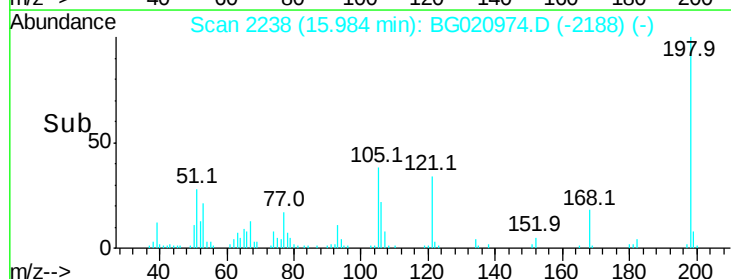
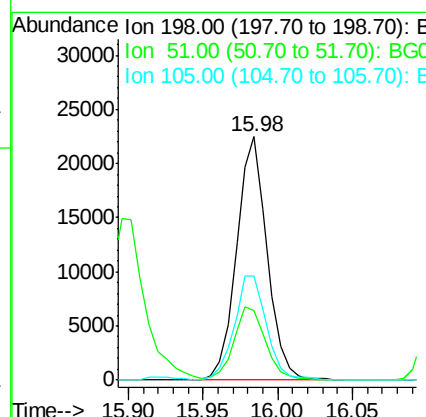
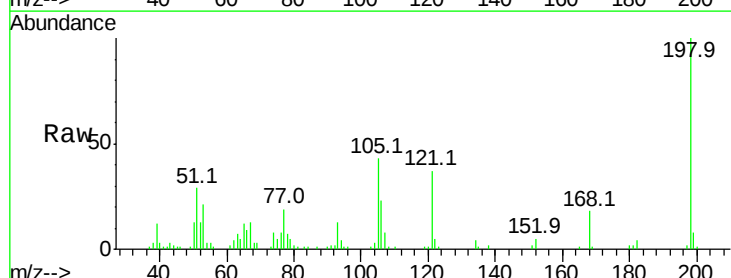
Manual Integrations  
APPROVED

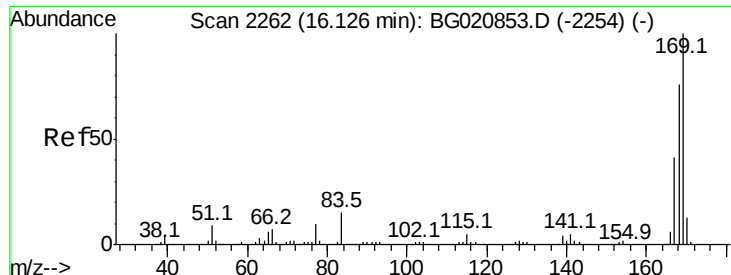
UMANGI  
2/22/2016 10:55:24 AM



#64  
4,6-Dinitro-2-methylphenol  
Concen: 46.65 ng  
RT: 15.98 min Scan# 2238  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 198     | 100   |            |       |
| 51      | 28.7  | 10.6       | 50.6  |
| 105     | 43.0  | 27.0       | 67.0  |





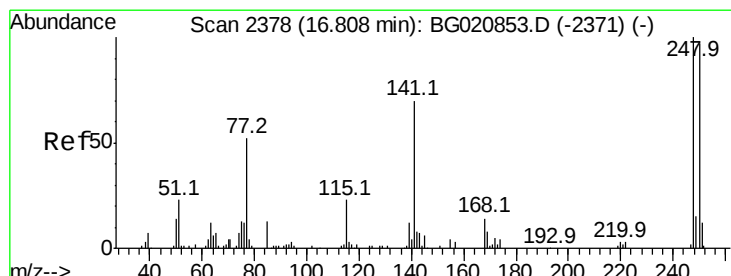
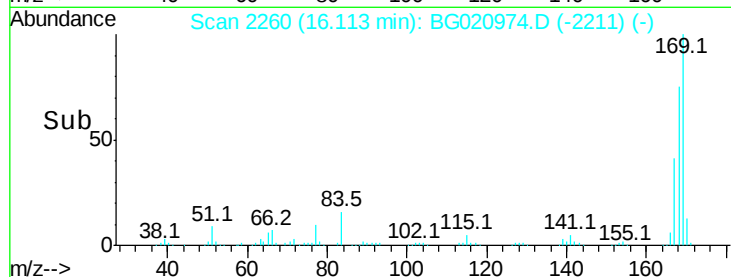
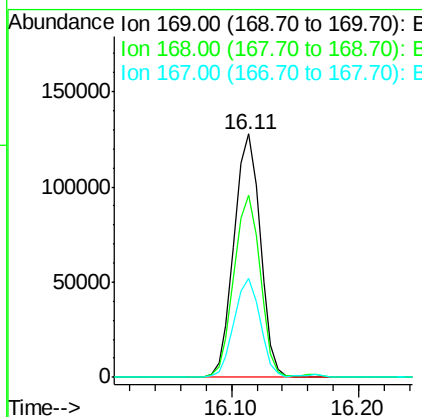
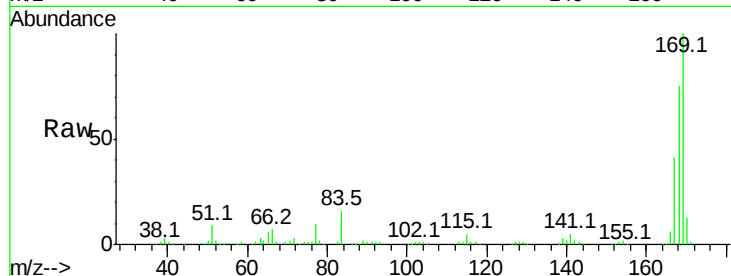
#65  
 n-Nitrosodiphenylamine  
 Concen: 42.02 ng  
 RT: 16.11 min Scan# 2260  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 169     | 100   | 183451 |       |       |
| 168     | 74.6  | 60.7   | 91.1  |       |
| 167     | 40.7  | 32.8   | 49.2  |       |

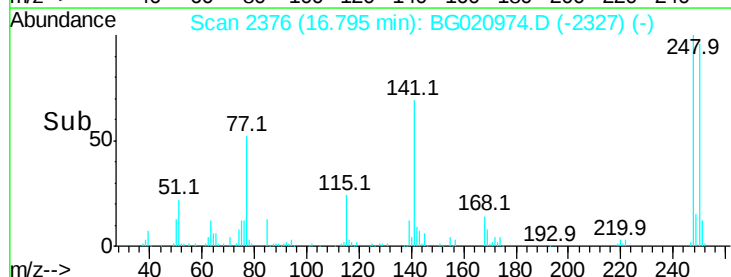
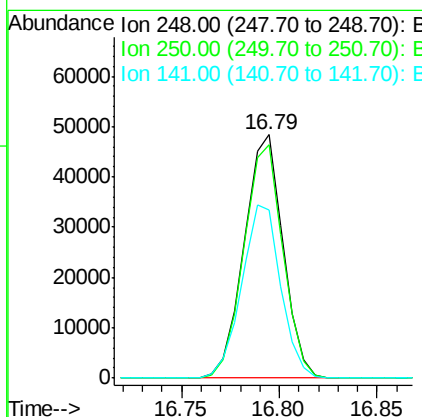
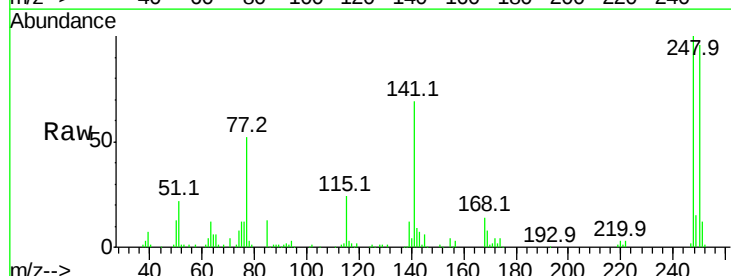
Manual Integrations  
 APPROVED

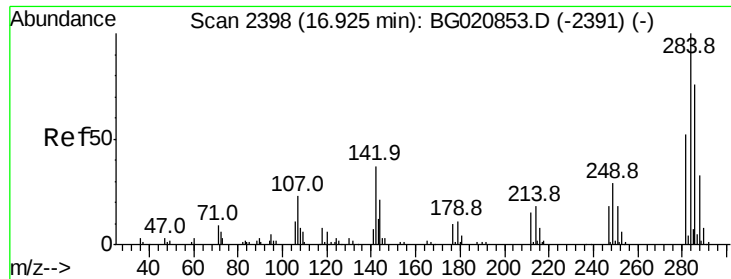
UMANGI  
 2/22/2016 10:55:24 AM



#66  
 4-Bromophenyl-phenylether  
 Concen: 46.54 ng  
 RT: 16.79 min Scan# 2376  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 248     | 100   | 66407 |       |       |
| 250     | 96.1  | 77.4  | 116.2 |       |
| 141     | 69.2  | 55.7  | 83.5  |       |





#67

Hexachlorobenzene

Concen: 47.54 ng

RT: 16.91 min Scan# 2396

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

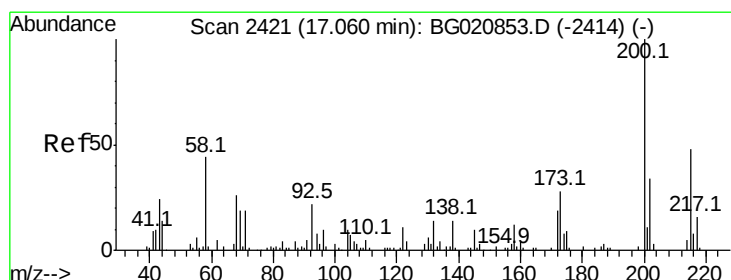
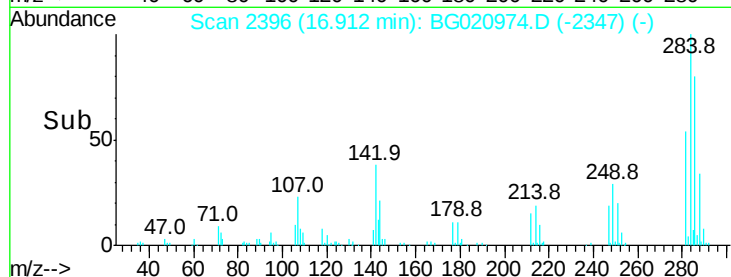
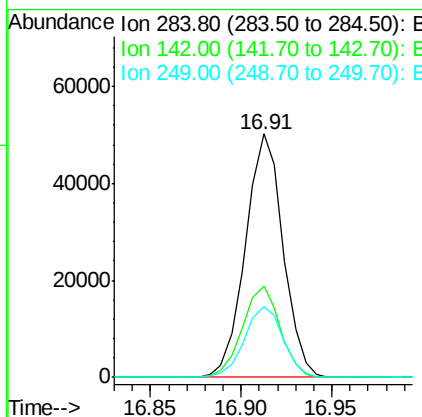
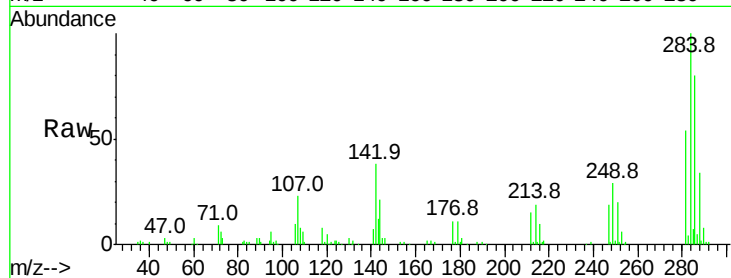
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 284   | Resp: | 72194 |
| Ion Ratio | Lower | Upper |       |
| 284       | 100   |       |       |
| 142       | 37.7  | 29.9  | 44.9  |
| 249       | 29.1  | 23.3  | 34.9  |

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#68

Atrazine

Concen: 15.46 ng

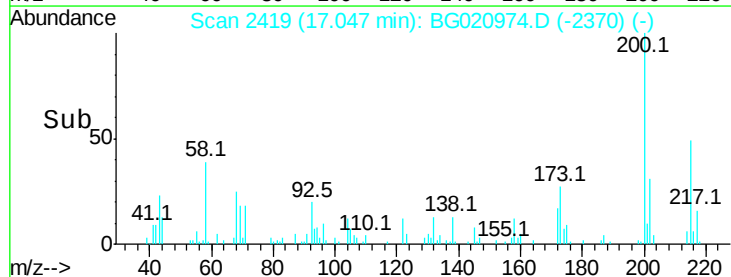
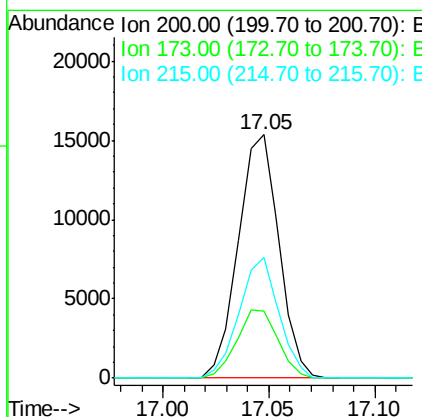
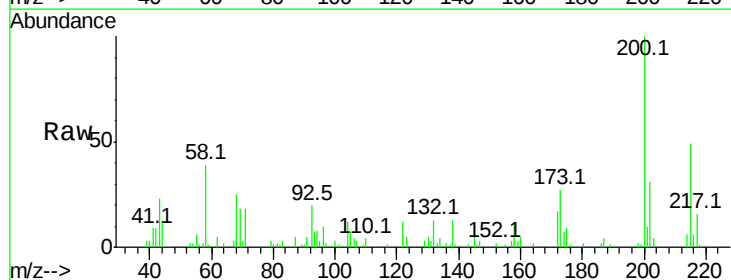
RT: 17.05 min Scan# 2419

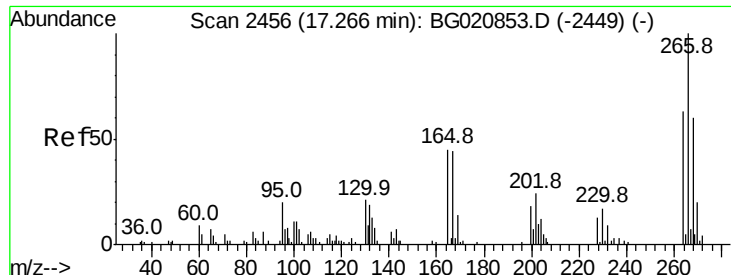
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 200   | Resp: | 20475 |
| Ion Ratio | Lower | Upper |       |
| 200       | 100   |       |       |
| 173       | 27.5  | 8.4   | 48.4  |
| 215       | 49.4  | 28.2  | 68.2  |





#69

Pentachlorophenol

Concen: 96.99 ng

RT: 17.25 min Scan# 2454

Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

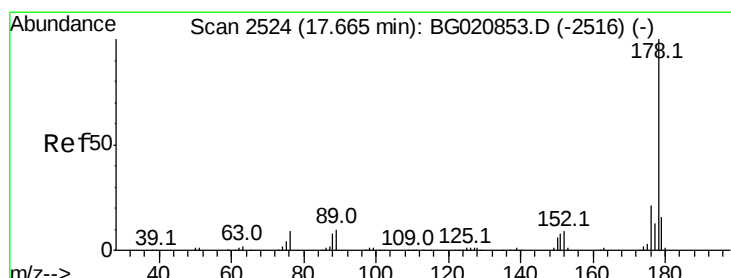
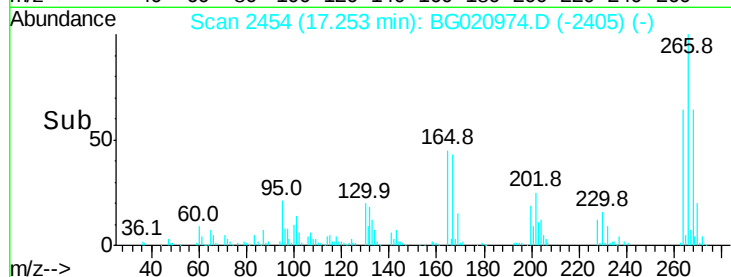
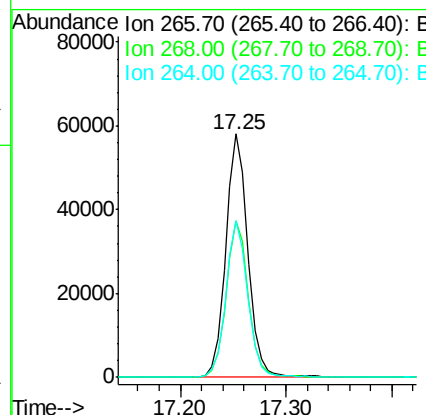
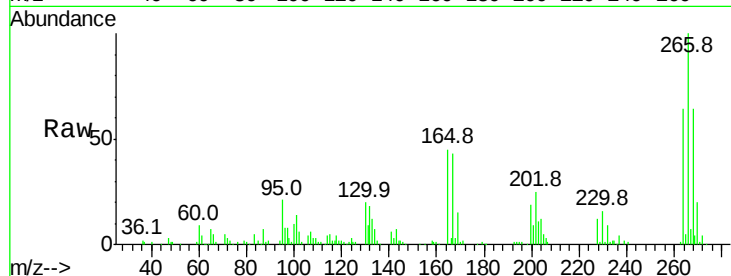
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 266   | Resp: | 84432 |
| Ion Ratio | Lower | Upper |       |
| 266       | 100   |       |       |
| 268       | 64.3  | 47.8  | 71.6  |
| 264       | 64.5  | 50.2  | 75.4  |

Manual Integrations  
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#70

Phenanthrene

Concen: 49.10 ng

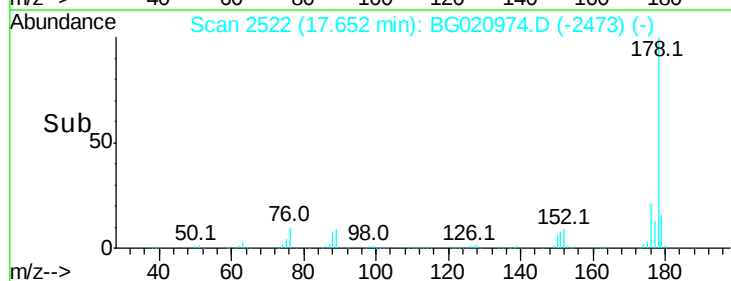
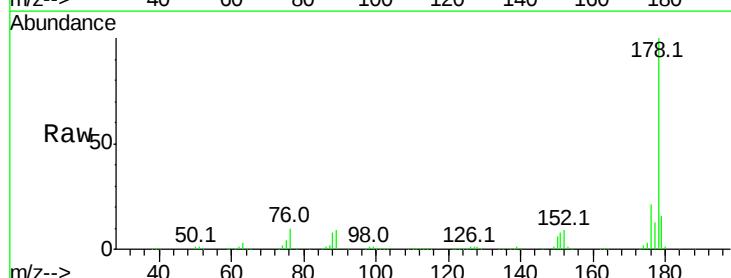
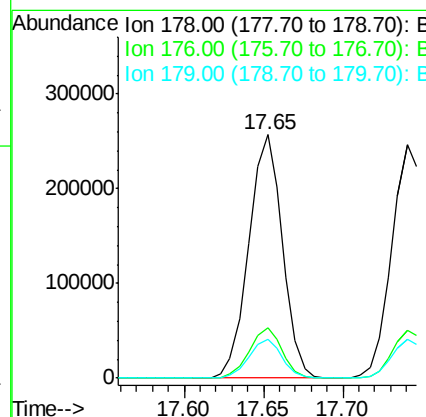
RT: 17.65 min Scan# 2522

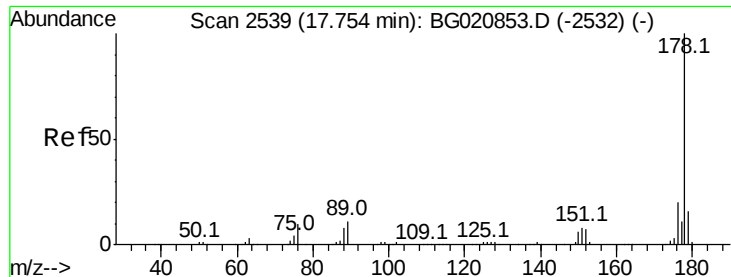
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 377693 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 20.7  | 16.8  | 25.2   |
| 179       | 16.1  | 12.6  | 19.0   |





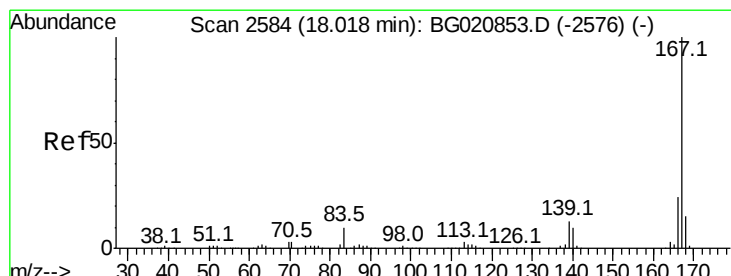
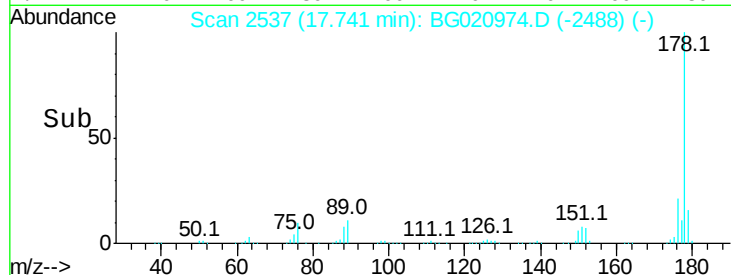
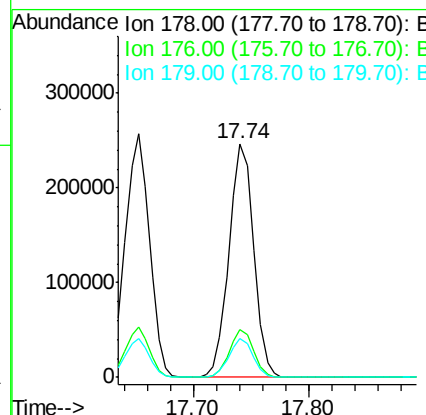
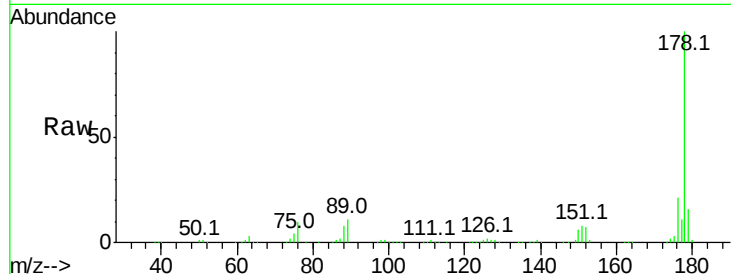
#71  
 Anthracene  
 Concen: 46.91 ng  
 RT: 17.74 min Scan# 2537  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.5  | 16.2  | 24.4  |
| 179     | 16.5  | 12.7  | 19.1  |

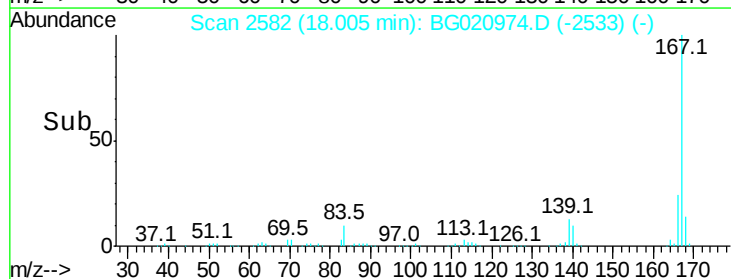
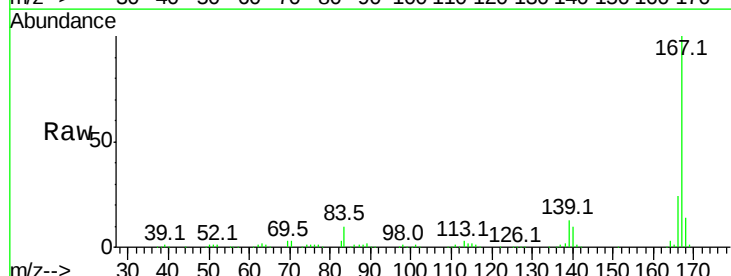
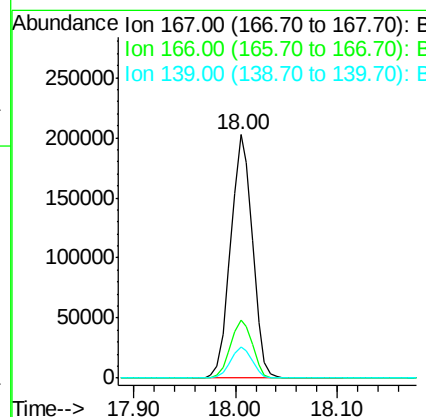
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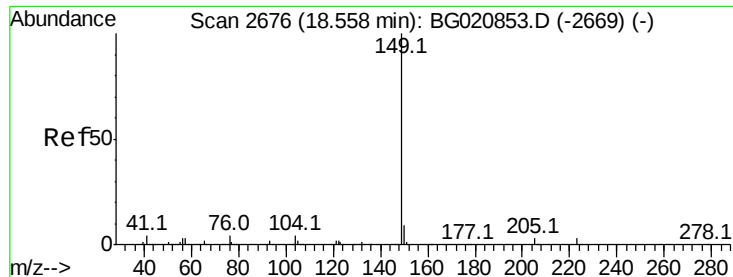
UMANGI  
 2/22/2016 10:55:24 AM



#72  
 Carbazole  
 Concen: 43.23 ng  
 RT: 18.00 min Scan# 2582  
 Delta R.T. -0.01 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 24.1  | 19.3  | 28.9  |
| 139     | 12.7  | 10.2  | 15.4  |





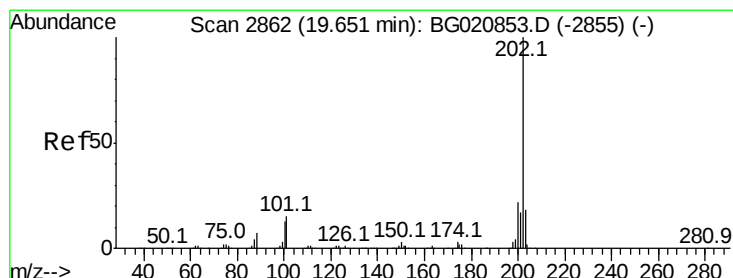
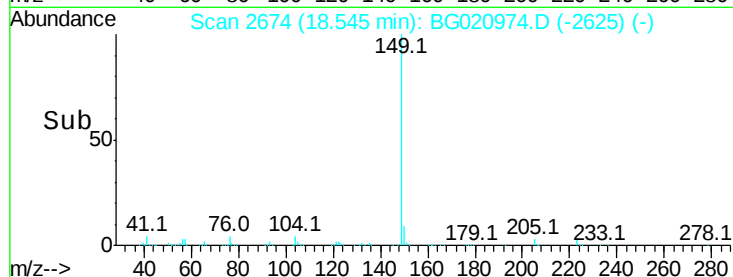
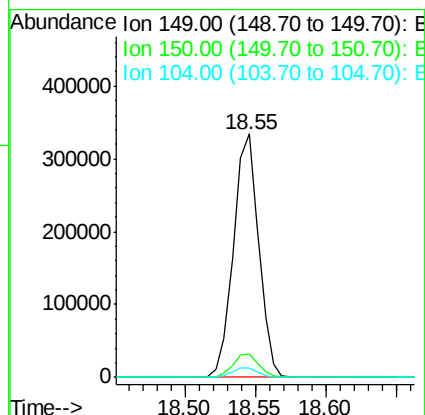
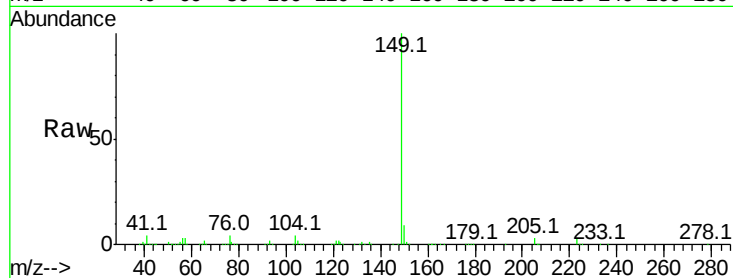
#73  
Di-n-butylphthalate  
Concen: 46.28 ng  
RT: 18.55 min Scan# 2674  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 149     | 100   |            |       |
| 150     | 9.5   | 7.6        | 11.4  |
| 104     | 3.9   | 3.4        | 5.0   |

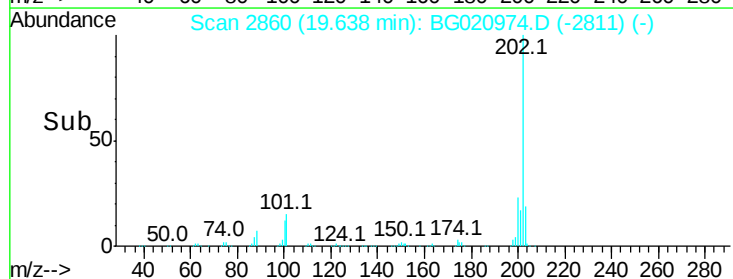
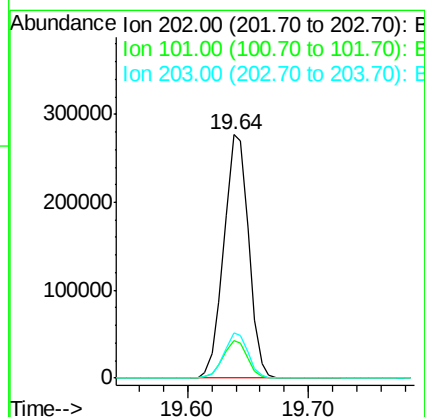
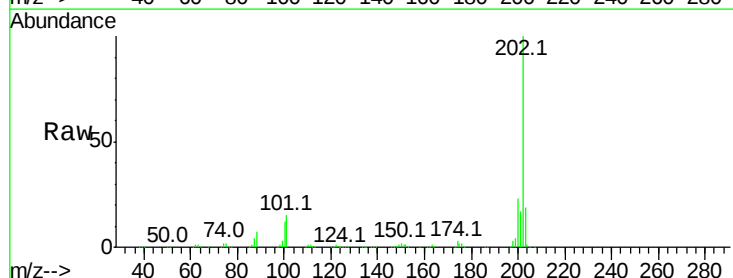
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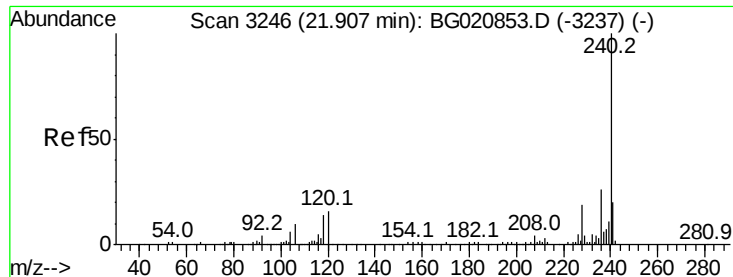
UMANGI  
2/22/2016 10:55:24 AM



#74  
Fluoranthene  
Concen: 47.11 ng  
RT: 19.64 min Scan# 2860  
Delta R.T. -0.01 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 15.3  | 0.0        | 35.3  |
| 203     | 18.7  | 0.0        | 37.8  |





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.89 min Scan# 3243

Delta R.T. -0.02 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

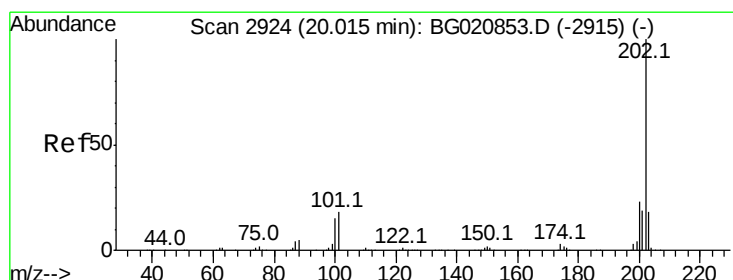
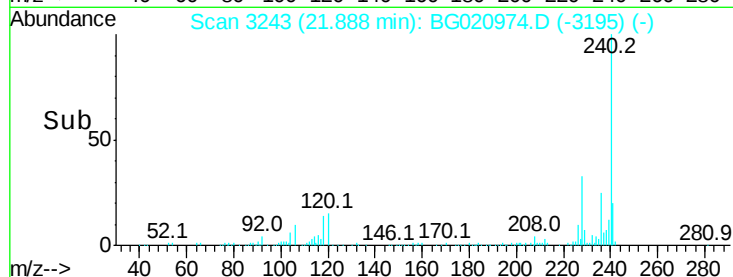
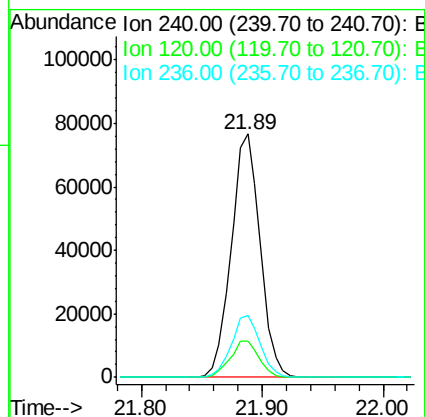
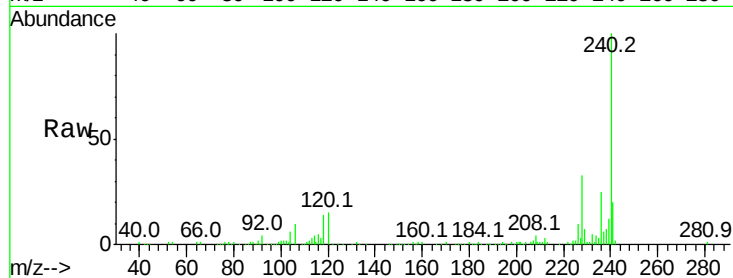
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 240   | Resp: | 127144 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 15.1  | 13.0  | 19.4   |
| 236       | 25.2  | 21.0  | 31.4   |

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#77

Pyrene

Concen: 47.90 ng

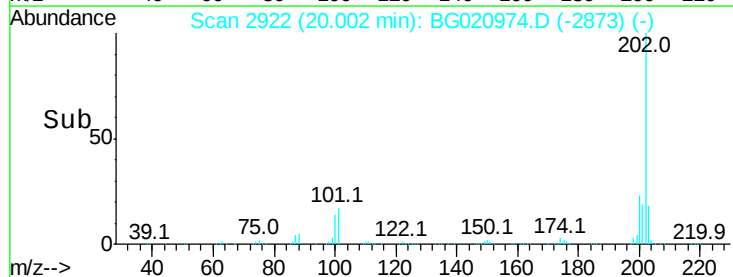
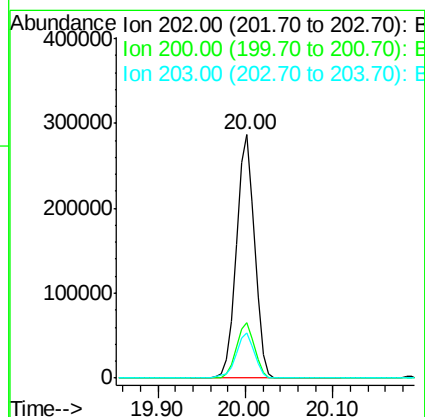
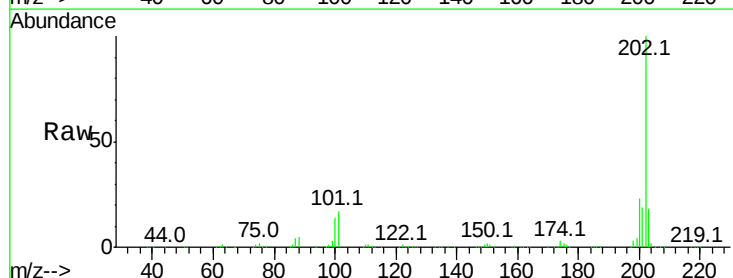
RT: 20.00 min Scan# 2922

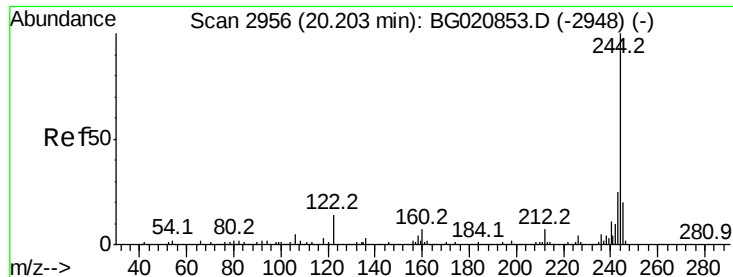
Delta R.T. -0.01 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 401730 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 22.6  | 18.5  | 27.7   |
| 203       | 18.3  | 14.3  | 21.5   |





#78

Terphenyl-d14

Concen: 95.15 ng

RT: 20.18 min Scan# 2953

Delta R.T. -0.02 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

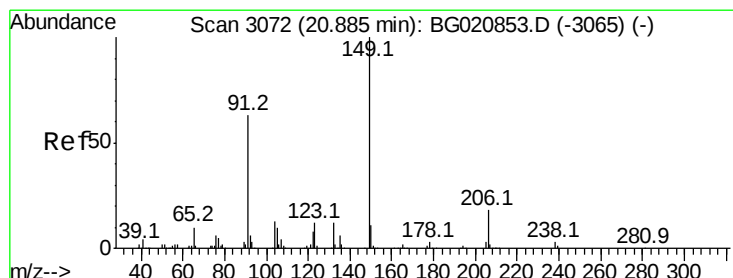
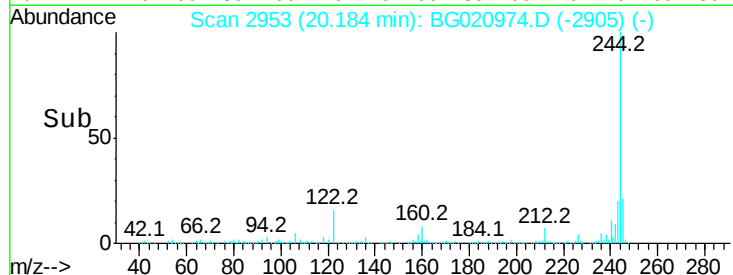
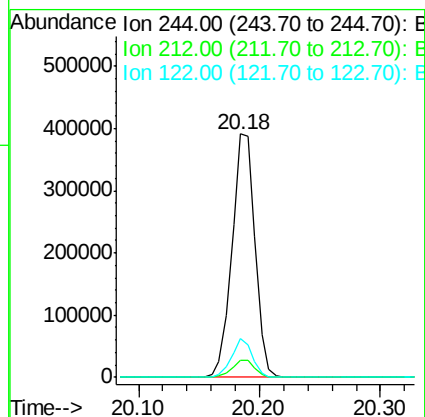
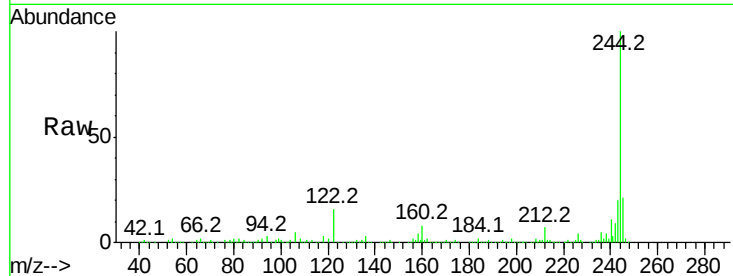
ClientSampleId :

SOIL-CUTTINGSMS

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 244  | Resp: | 518558 |
| Ion Ratio |      | Lower | Upper  |
| 244       | 100  |       |        |
| 212       | 7.1  | 5.5   | 8.3    |
| 122       | 15.8 | 11.4  | 17.2   |

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#79

Butylbenzylphthalate

Concen: 47.42 ng

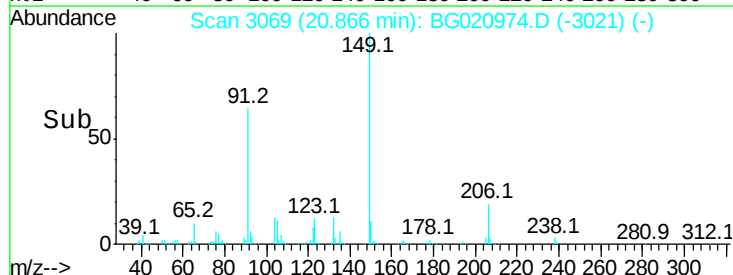
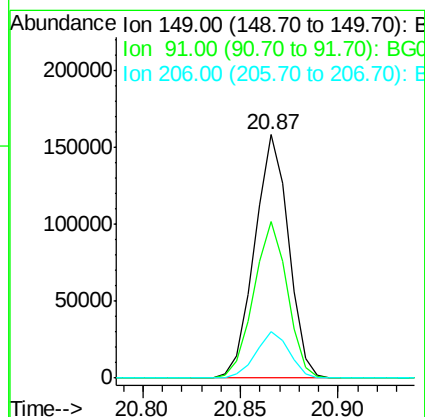
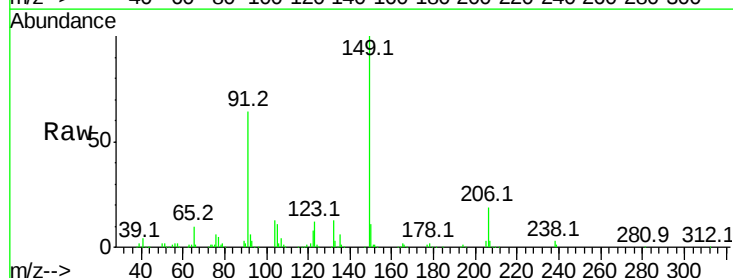
RT: 20.87 min Scan# 3069

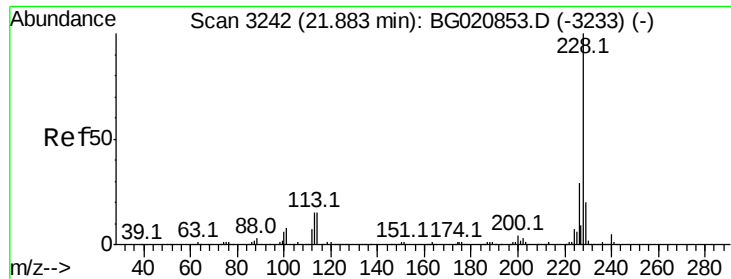
Delta R.T. -0.02 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 149  | Resp: | 190414 |
| Ion Ratio |      | Lower | Upper  |
| 149       | 100  |       |        |
| 91        | 64.4 | 50.6  | 76.0   |
| 206       | 19.1 | 14.6  | 22.0   |





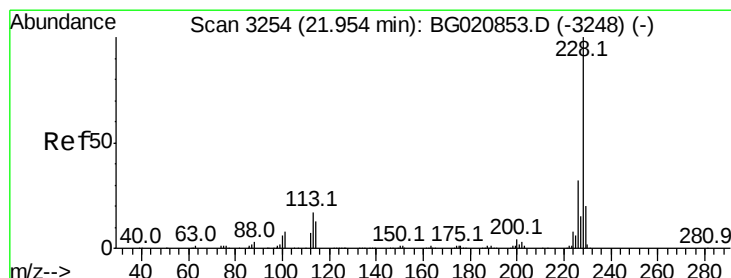
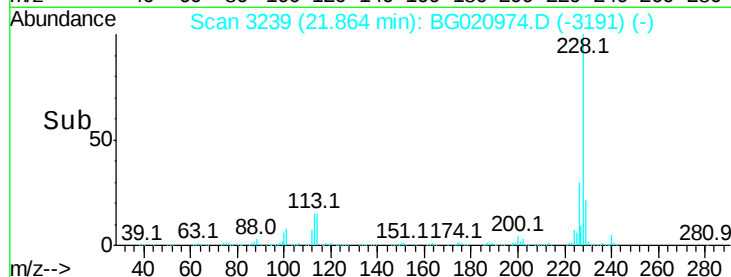
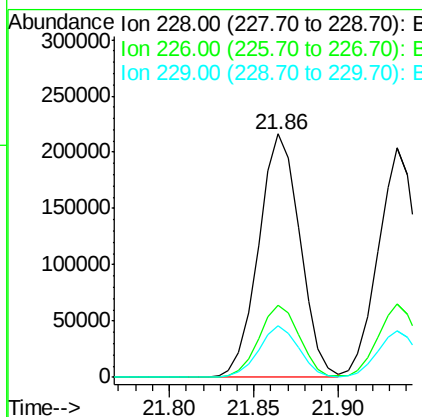
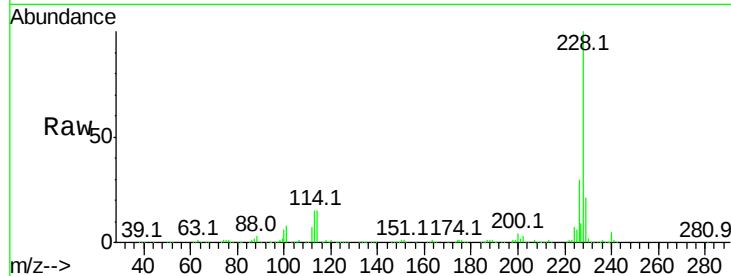
#80  
Benzo(a)anthracene  
Concen: 48.25 ng  
RT: 21.86 min Scan# 3239  
Delta R.T. -0.02 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 366221 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.8  | 23.1  | 34.7   |
| 229       | 21.0  | 16.2  | 24.2   |

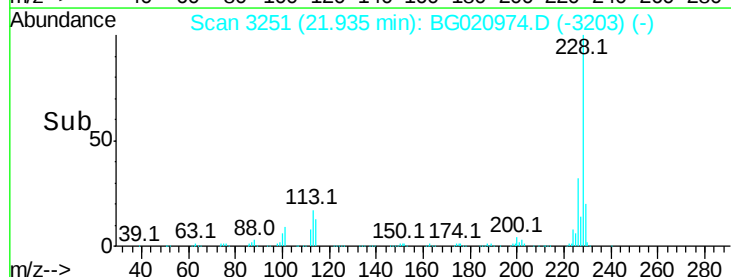
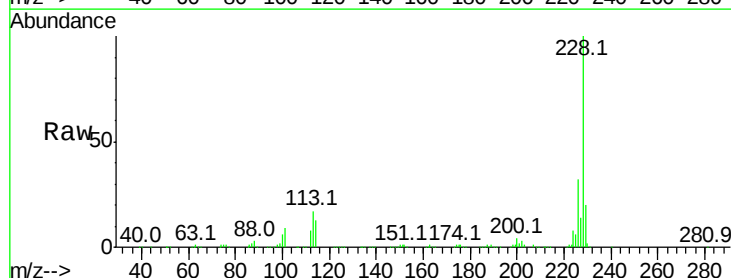
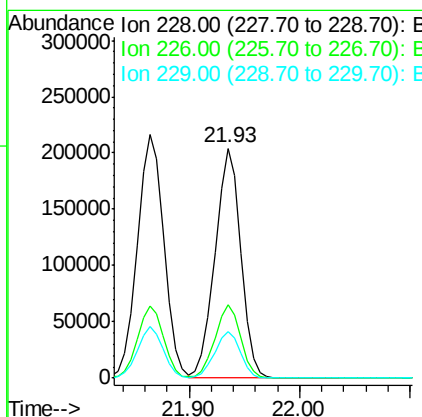
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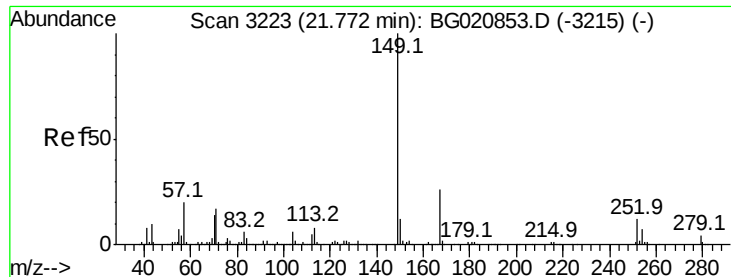
UMANGI  
2/22/2016 10:55:24 AM



#82  
Chrysene  
Concen: 46.06 ng  
RT: 21.93 min Scan# 3251  
Delta R.T. -0.02 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 328789 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.9  | 25.3  | 37.9   |
| 229       | 20.5  | 16.2  | 24.2   |





#83

Bis(2-ethylhexyl)phthalate

Concen: 46.35 ng

RT: 21.75 min Scan# 3219

Delta R.T. -0.02 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

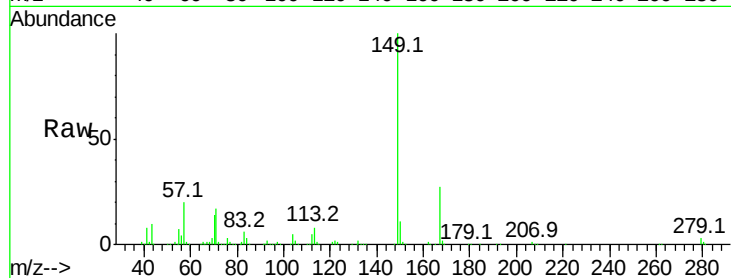
ClientSampleId :

SOIL-CUTTINGSMS

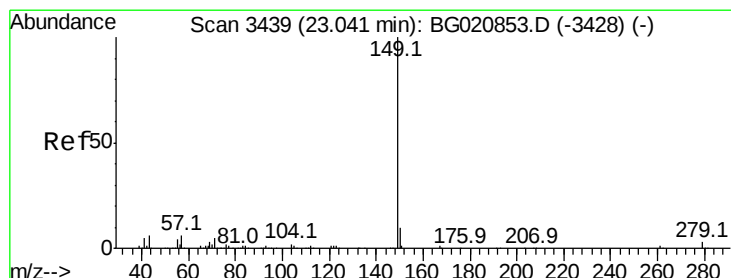
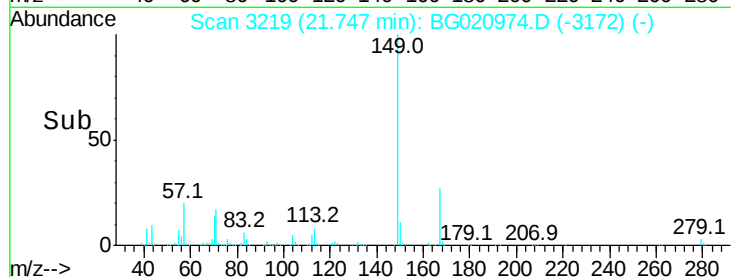
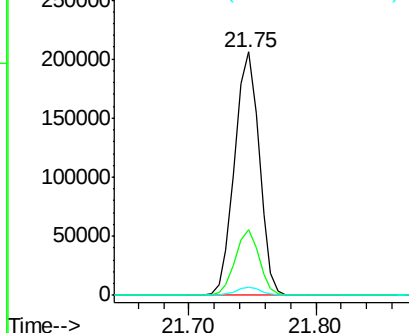
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 149   | Resp: | 275960 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 26.8  | 20.9  | 31.3   |
| 279       | 3.4   | 3.0   | 4.4    |

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Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



#84

Di-n-octyl phthalate

Concen: 48.53 ng

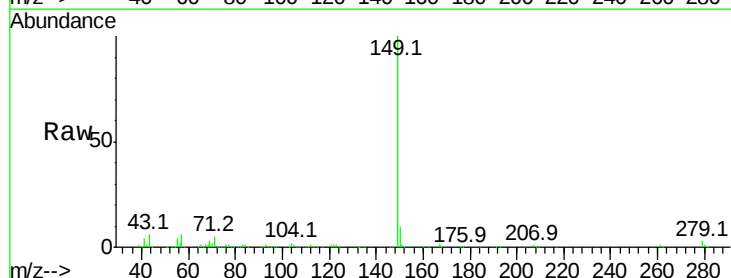
RT: 23.01 min Scan# 3434

Delta R.T. -0.03 min

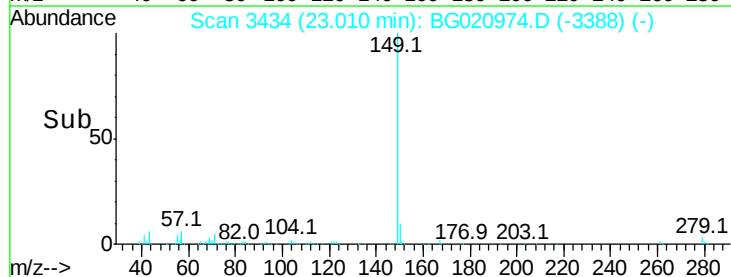
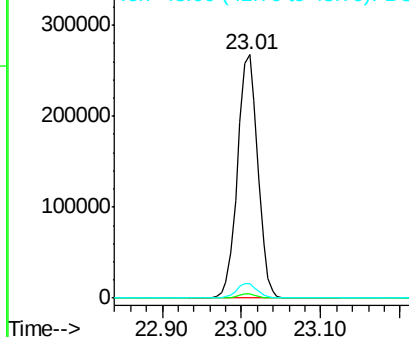
Lab File: BG020974.D

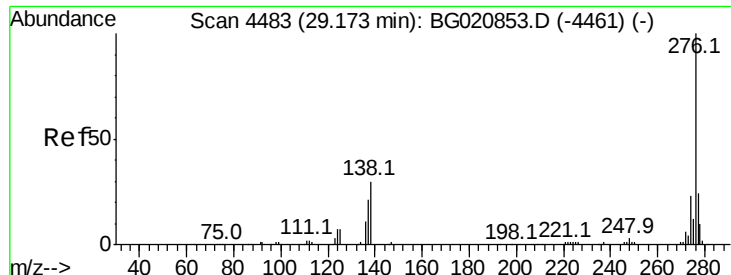
Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 474210 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 167       | 1.5   | 1.2   | 1.8    |
| 43        | 6.1   | 5.1   | 7.7    |



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): BG0





#85

Indeno(1,2,3-cd)pyrene

Concen: 48.30 ng

RT: 29.11 min Scan# 4473

Delta R.T. -0.06 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

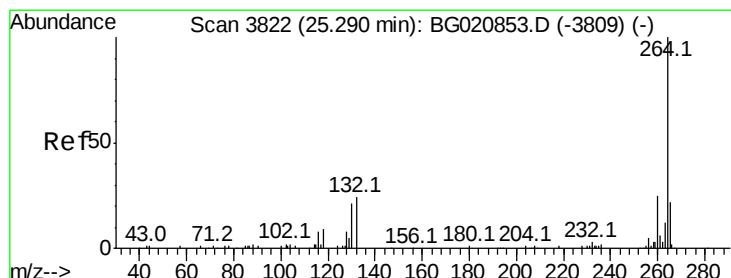
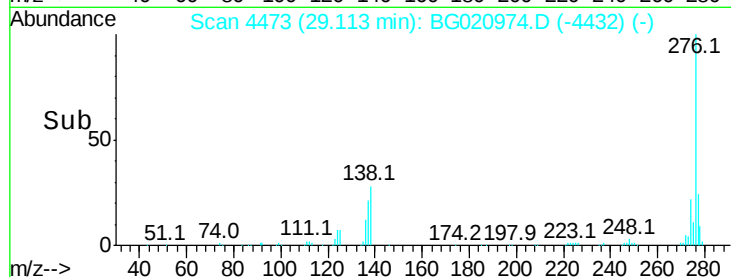
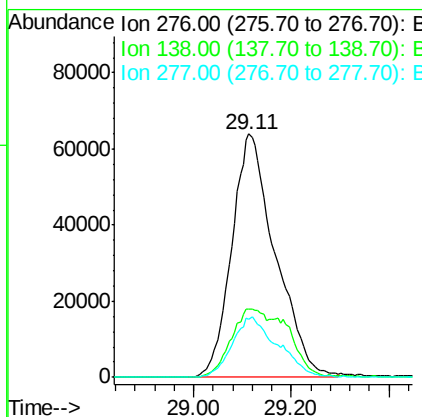
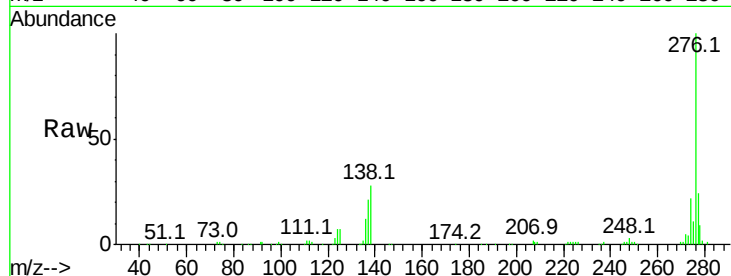
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 396476 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 22.7  | 20.1  | 30.1   |
| 277       | 25.9  | 20.5  | 30.7   |

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#86

Perylene-d12

Concen: 20.00 ng

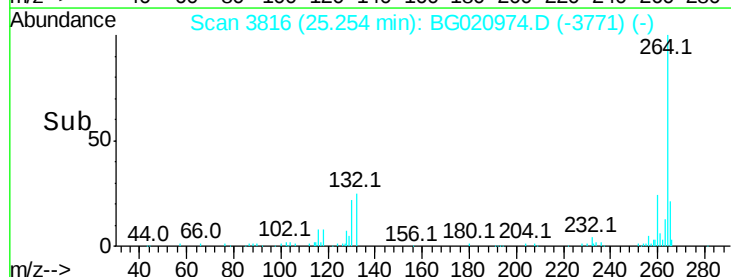
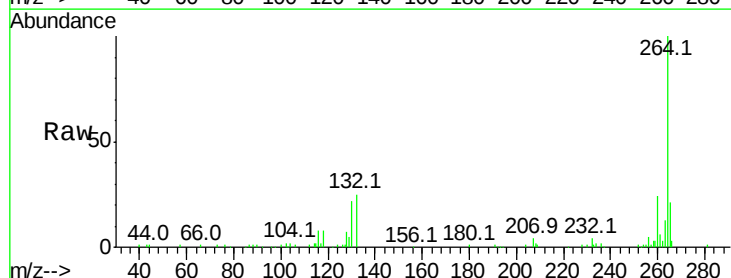
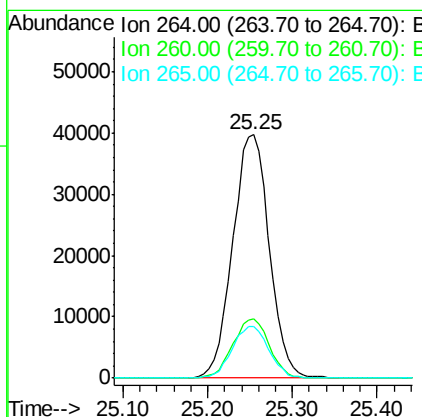
RT: 25.25 min Scan# 3816

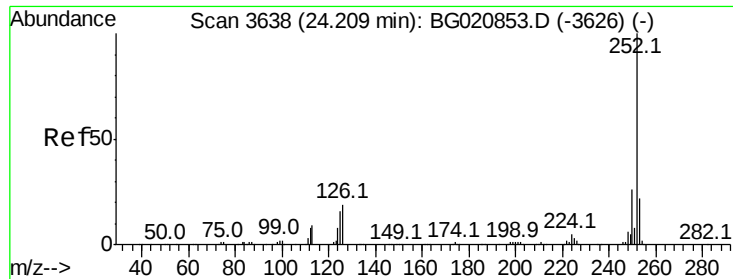
Delta R.T. -0.04 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 118559 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 24.2  | 19.9  | 29.9   |
| 265       | 20.9  | 18.0  | 27.0   |





#87

Benzo(b)fluoranthene

Concen: 49.09 ng

RT: 24.18 min Scan# 3633

Delta R.T. -0.03 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

Instrument :

BNA\_G

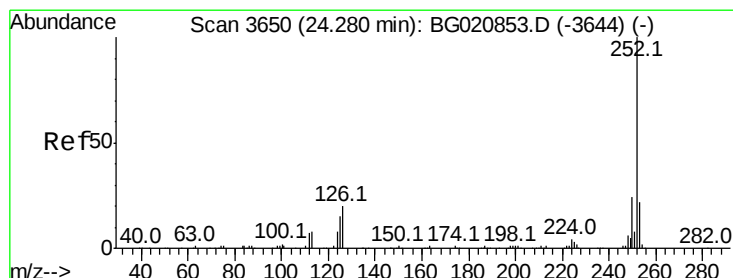
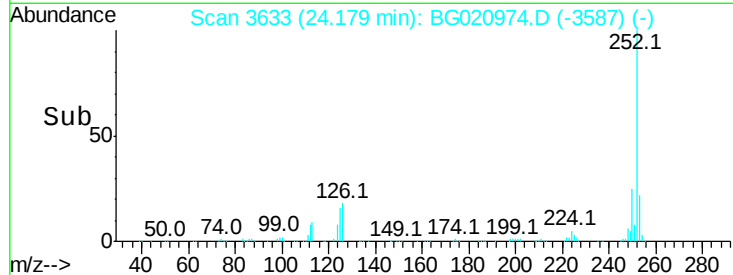
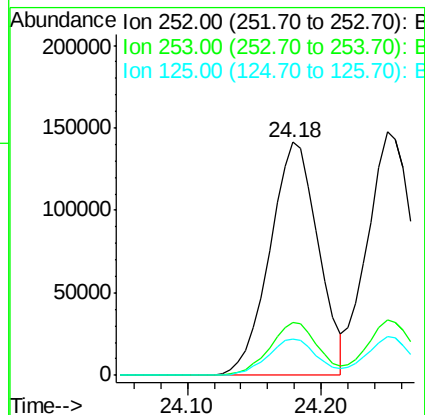
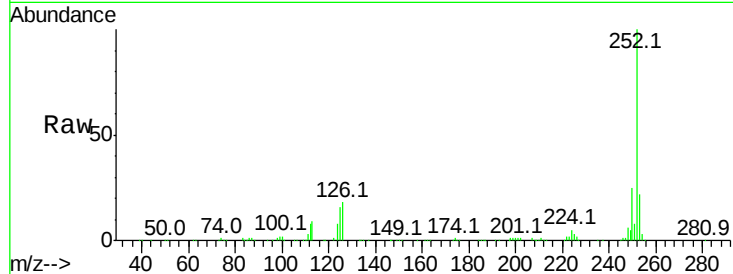
ClientSampleId :

SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 356212 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.5  | 17.5  | 26.3   |
| 125       | 15.8  | 12.5  | 18.7   |

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#88

Benzo(k)fluoranthene

Concen: 48.58 ng

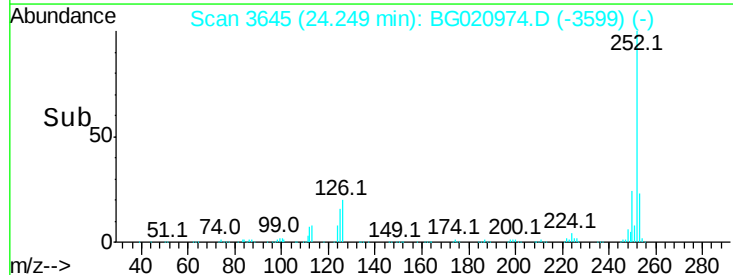
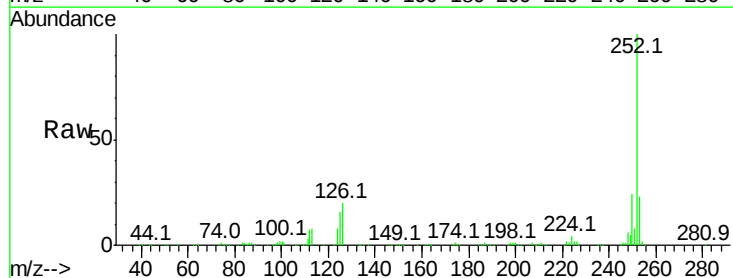
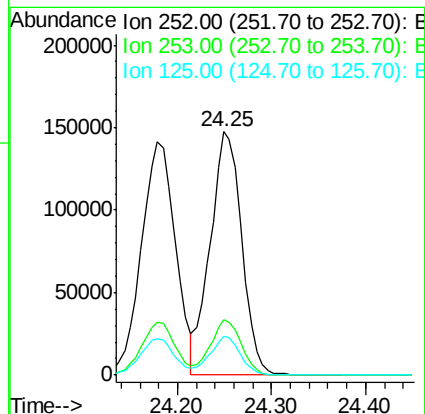
RT: 24.25 min Scan# 3645

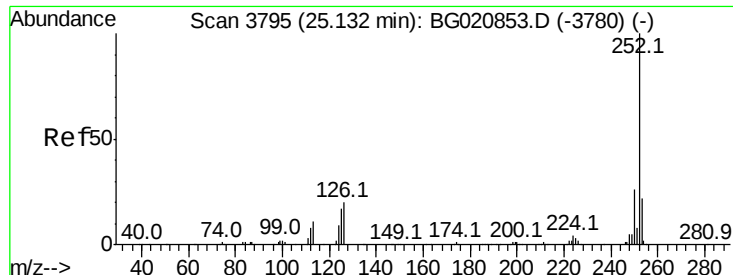
Delta R.T. -0.03 min

Lab File: BG020974.D

Acq: 19 Feb 2016 16:18

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 345339 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 17.7  | 26.5   |
| 125       | 16.0  | 12.2  | 18.4   |





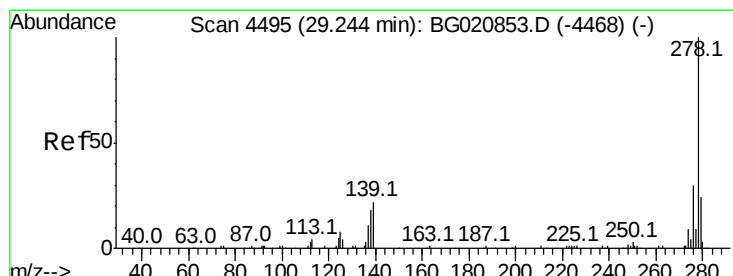
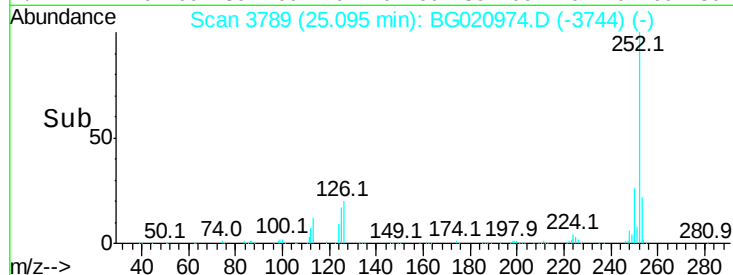
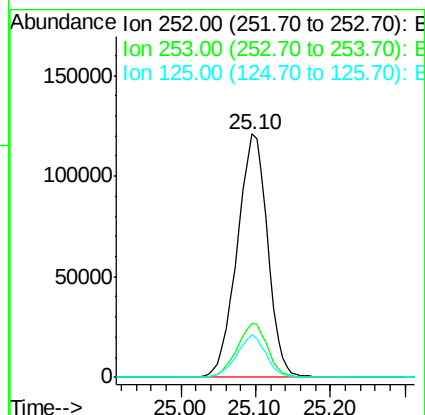
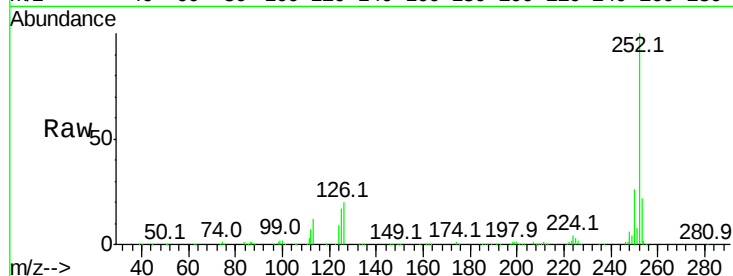
#89  
Benzo(a)pyrene  
Concen: 49.63 ng  
RT: 25.10 min Scan# 3789  
Delta R.T. -0.04 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

Instrument :  
BNA\_G  
ClientSampleId :  
SOIL-CUTTINGSMS

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 22.2  | 17.4       | 26.2  |
| 125     | 17.3  | 13.6       | 20.4  |

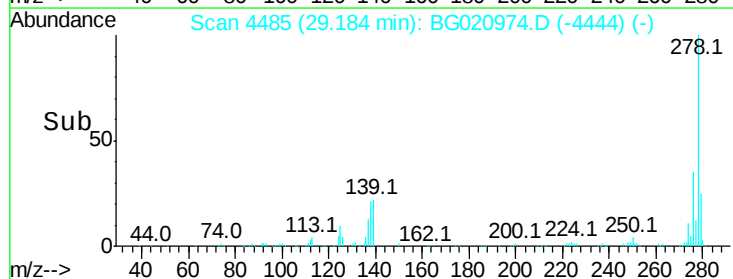
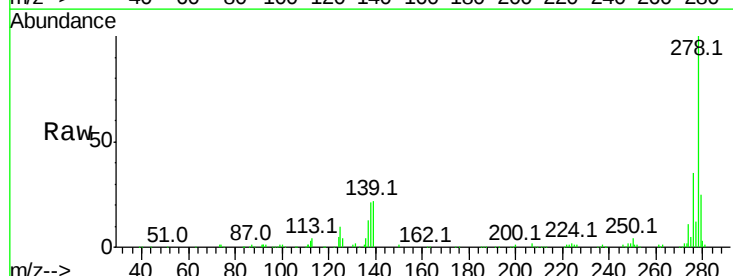
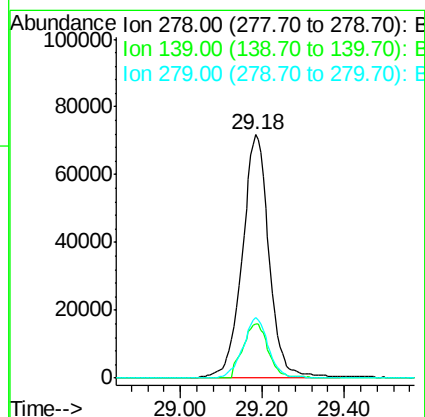
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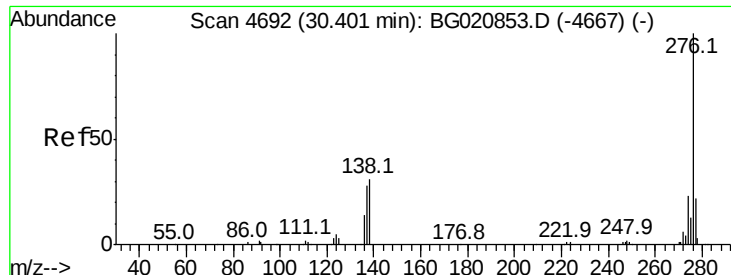
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#90  
Dibenzo(a,h)anthracene  
Concen: 48.62 ng  
RT: 29.18 min Scan# 4485  
Delta R.T. -0.06 min  
Lab File: BG020974.D  
Acq: 19 Feb 2016 16:18

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 278     | 100   |            |       |
| 139     | 22.5  | 17.3       | 25.9  |
| 279     | 24.6  | 19.1       | 28.7  |





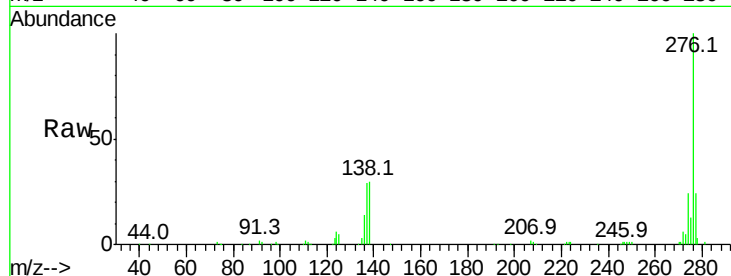
#91  
 Benzo(a,h,i)perylene  
 Concen: 48.73 ng  
 RT: 30.33 min Scan# 4680  
 Delta R.T. -0.07 min  
 Lab File: BG020974.D  
 Acq: 19 Feb 2016 16:18

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOIL-CUTTINGSMS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 325180 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.1  | 17.6  | 26.4   |
| 138       | 30.3  | 25.2  | 37.8   |

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

