

Data Path : Z:\HPCHEM1\BNA G\DATA\BG020618\  
 Data File : BG032568.D  
 Acq On : 6 Feb 2018 16:32  
 Operator : SJ/JU  
 Sample : J1161-03  
 Misc : LOD-S-1 ppm  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

Manual Integrations  
 APPROVED

Sohil  
 2/7/2018 4:14:29 PM

Quant Time: Feb 07 13:38:49 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 06 18:57:08 2018  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.70  | 152  | 13381    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 11.58 | 136  | 67561    | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 15.34 | 164  | 47418    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 18.08 | 188  | 127210   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 22.40 | 240  | 154432   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 26.06 | 264  | 192510   | 20.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |        |        |    |      |
|--------------------------|-------|-----|--------|--------|----|------|
| 5) 2-Fluorophenol        | 6.14  | 112 | 92116  | 138.27 | ng | 0.00 |
| 7) Phenol-d6             | 7.82  | 99  | 115500 | 129.92 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.90  | 82  | 72340  | 66.88  | ng | 0.00 |
| 41) 2,4,6-Tribromophenol | 16.82 | 330 | 107236 | 118.81 | ng | 0.00 |
| 44) 2-Fluorobiphenyl     | 13.97 | 172 | 277138 | 69.47  | ng | 0.00 |
| 78) Terphenyl-d14        | 20.61 | 244 | 661180 | 91.71  | ng | 0.00 |

## Target Compounds

|                                |       |     |       |       |    | Qvalue |
|--------------------------------|-------|-----|-------|-------|----|--------|
| 6) Aniline                     | 8.02  | 93  | 520   | 0.469 | ng | # 84   |
| 8) 2-Chlorophenol              | 8.26  | 128 | 718   | 0.912 | ng | # 33   |
| 9) Benzaldehyde                | 7.82  | 77  | 472   | 1.028 | ng | # 70   |
| 10) Phenol                     | 7.86  | 94  | 918   | 1.087 | ng | # 12   |
| 11) bis(2-Chloroethyl)ether    | 8.10  | 93  | 374   | 0.581 | ng | # 67   |
| 12) 1,3-Dichlorobenzene        | 8.60  | 146 | 1111m | 1.043 | ng |        |
| 13) 1,4-Dichlorobenzene        | 8.75  | 146 | 1418  | 1.328 | ng | # 92   |
| 14) 1,2-Dichlorobenzene        | 9.07  | 146 | 1310  | 1.253 | ng | # 75   |
| 15) Benzyl Alcohol             | 8.97  | 79  | 90    | 0.123 | ng | # 72   |
| 16) 2,2'-oxybis(1-Chloropropan | 9.22  | 45  | 260   | 0.427 | ng | # 75   |
| 18) Hexachloroethane           | 9.83  | 117 | 598   | 1.669 | ng | # 63   |
| 24) Nitrobenzene               | 9.94  | 77  | 1184m | 1.132 | ng |        |
| 31) Naphthalene                | 11.63 | 128 | 3850  | 1.167 | ng | # 64   |
| 34) Hexachlorobutadiene        | 11.90 | 225 | 1383  | 1.109 | ng | # 80   |
| 37) 2-Methylnaphthalene        | 13.20 | 142 | 2790  | 1.006 | ng | # 77   |
| 39) 1,2,4,5-Tetrachlorobenzene | 13.55 | 216 | 2499  | 1.127 | ng | # 88   |
| 45) 1,1'-Biphenyl              | 14.18 | 154 | 5279  | 1.318 | ng | # 84   |
| 46) 2-Chloronaphthalene        | 14.23 | 162 | 3714  | 1.183 | ng | # 91   |
| 47) 2-Nitroaniline             | 14.43 | 65  | 246   | 0.354 | ng | # 61   |
| 48) Acenaphthylene             | 15.07 | 152 | 5417  | 1.141 | ng | # 97   |
| 49) Dimethylphthalate          | 14.76 | 163 | 4761  | 1.089 | ng | # 83   |
| 50) 2,6-Dinitrotoluene         | 14.90 | 165 | 811   | 0.884 | ng | # 84   |
| 51) Acenaphthene               | 15.40 | 154 | 3477  | 1.056 | ng | # 87   |
| 54) Dibenzofuran               | 15.74 | 168 | 5870  | 1.205 | ng | # 89   |
| 57) Fluorene                   | 16.38 | 166 | 4993  | 1.233 | ng | # 81   |
| 58) 2,3,4,6-Tetrachlorophenol  | 15.95 | 232 | 1050  | 0.757 | ng | # 90   |
| 59) Diethylphthalate           | 16.10 | 149 | 5012  | 1.177 | ng | # 87   |
| 62) Azobenzene                 | 16.64 | 77  | 2634  | 1.035 | ng | # 77   |
| 65) n-Nitrosodiphenylamine     | 16.57 | 169 | 3695  | 0.973 | ng | # 59   |
| 66) 4-Bromophenyl-phenylether  | 17.25 | 248 | 1875  | 0.995 | ng | # 75   |
| 67) Hexachlorobenzene          | 17.38 | 284 | 2573  | 1.234 | ng | # 81   |
| 68) Atrazine                   | 17.48 | 200 | 1787  | 1.097 | ng | # 91   |
| 70) Phenanthrene               | 18.12 | 178 | 8536  | 1.203 | ng | # 98   |
| 71) Anthracene                 | 18.21 | 178 | 8499  | 1.203 | ng | # 95   |

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 Misc : LOD-S-1 ppm  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

Manual Integrations  
 APPROVED

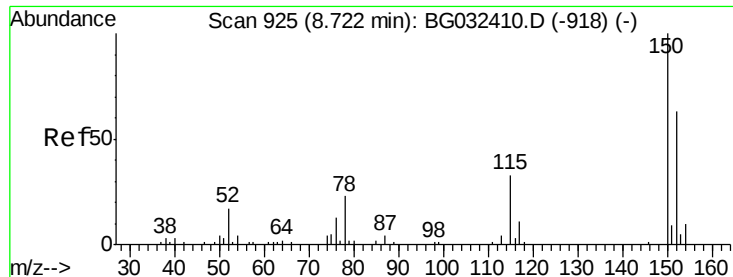
Sohil  
 2/7/2018 4:14:29 PM

Quant Time: Feb 07 13:38:49 2018  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\8270-BG012918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 06 18:57:08 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| -----                          |       |      |          |       |       |          |
| 72) Carbazole                  | 18.48 | 167  | 7245     | 1.161 | nq    | # 85     |
| 73) Di-n-butylphthalate        | 18.97 | 149  | 8365     | 1.211 | nq    | # 92     |
| 74) Fluoranthene               | 20.08 | 202  | 12433    | 1.336 | nq    | 90       |
| 77) Pyrene                     | 20.44 | 202  | 13109m   | 1.384 | nq    |          |
| 79) Butylbenzylphthalate       | 21.30 | 149  | 3846     | 1.287 | nq    | # 62     |
| 80) Benzo(a)anthracene         | 22.38 | 228  | 12297    | 1.284 | nq    | 94       |
| 82) Chrysene                   | 22.45 | 228  | 11428    | 1.236 | nq    | 97       |
| 83) Bis(2-ethylhexyl)phthalate | 22.22 | 149  | 5145     | 1.215 | nq    | # 89     |
| 84) Di-n-octyl phthalate       | 23.59 | 149  | 9054     | 1.347 | nq    | # 79     |
| 85) Indeno(1,2,3-cd)pyrene     | 30.30 | 276  | 14134m   | 1.208 | nq    |          |
| 87) Benzo(b)fluoranthene       | 24.89 | 252  | 12880    | 1.107 | nq    | # 98     |
| 88) Benzo(k)fluoranthene       | 24.96 | 252  | 14501m   | 1.258 | nq    |          |
| 89) Benzo(a)pyrene             | 25.90 | 252  | 13600    | 1.226 | nq    | # 86     |
| 90) Dibenzo(a,h)anthracene     | 30.36 | 278  | 12696m   | 1.119 | nq    |          |
| 91) Benzo(a,h,i)perylene       | 31.64 | 276  | 12734    | 1.131 | nq    | # 71     |
| -----                          |       |      |          |       |       |          |

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





#1

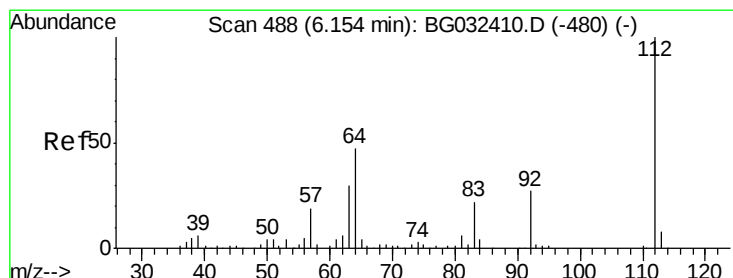
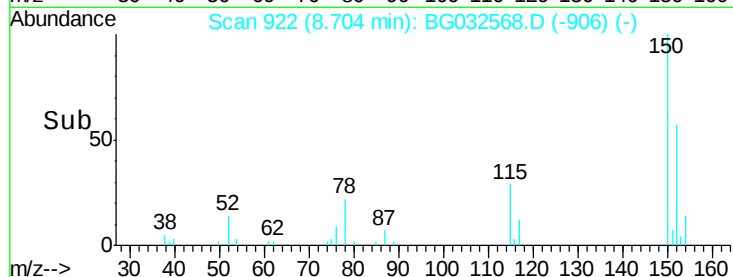
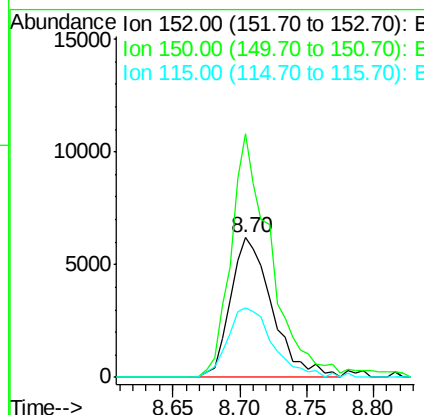
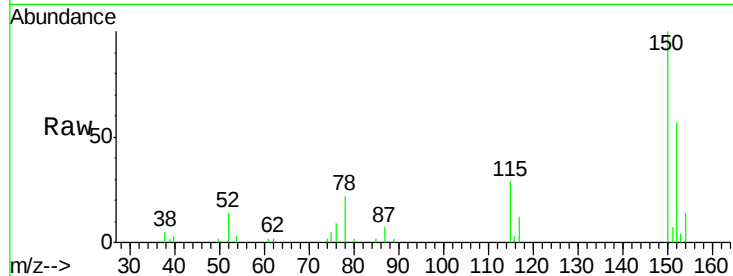
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.70 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 174.5 | 126.6 | 189.8 |
| 115     | 50.0  | 53.0  | 79.4# |

Manual Integrations  
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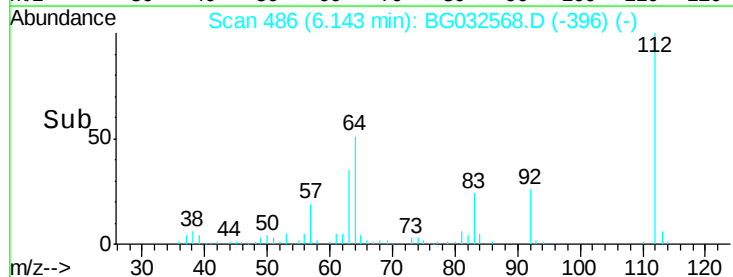
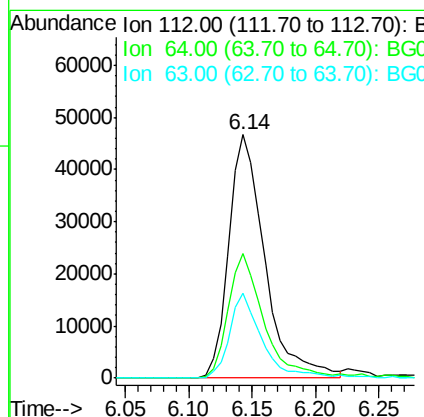
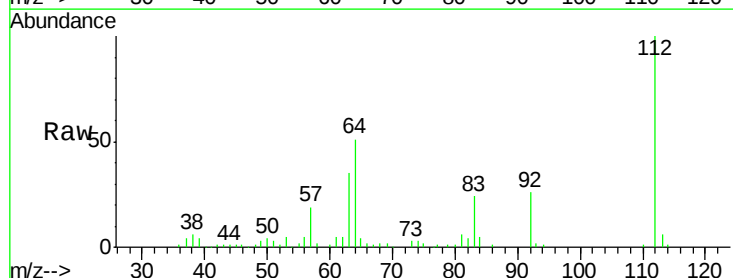
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2/7/2018 4:14:29 PM

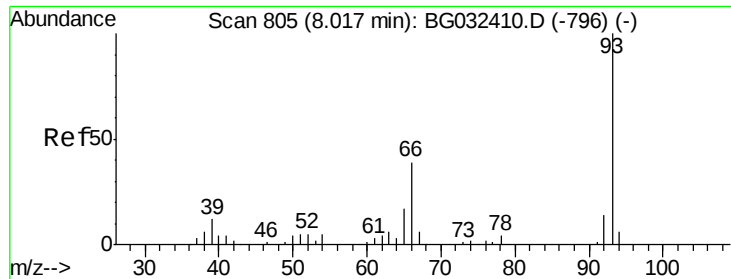


#5

2-Fluorophenol  
Concen: 138.271 ng  
RT: 6.14 min Scan# 486  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 51.1  | 56.3  | 84.5# |
| 63      | 34.8  | 30.1  | 45.1  |





#6

Aniline

Concen: 0.469 ng

RT: 8.02 min Scan# 805

Delta R.T. 0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

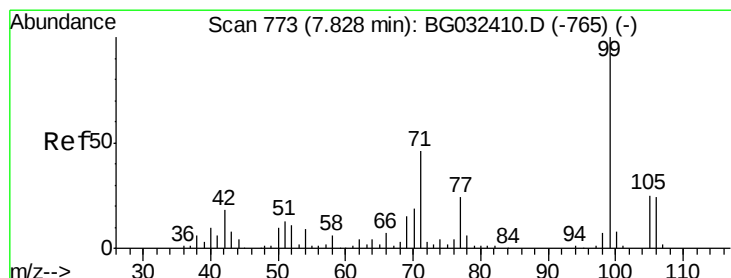
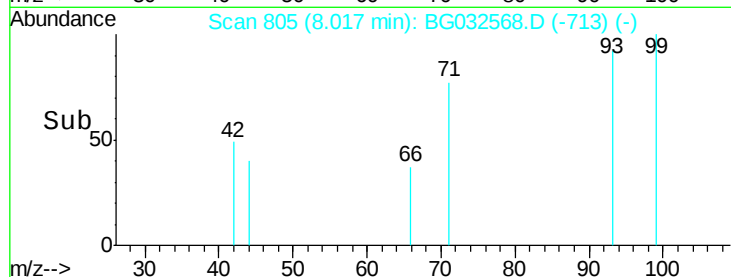
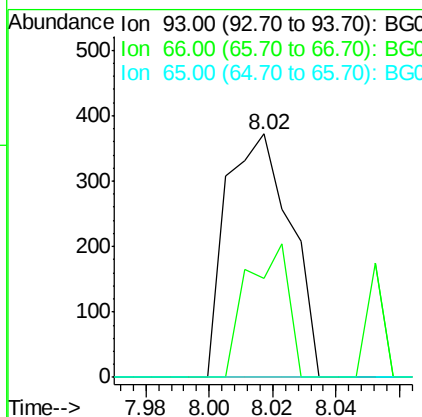
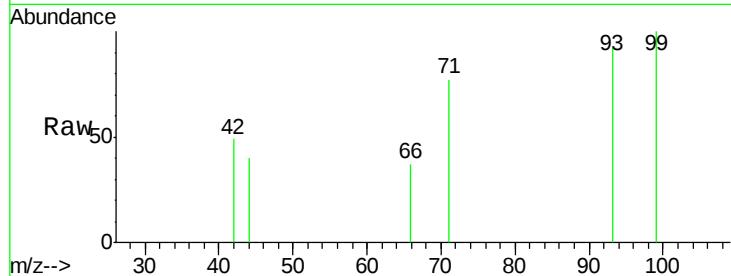
ClientSampleId :

MDL-SOIL-03-QT1-2018

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 93    | Resp: | 520   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 66       | 40.6  | 33.7  | 50.5  |
| 65       | 0.0   | 16.1  | 24.1# |

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#7

Phenol-d6

Concen: 129.923 ng

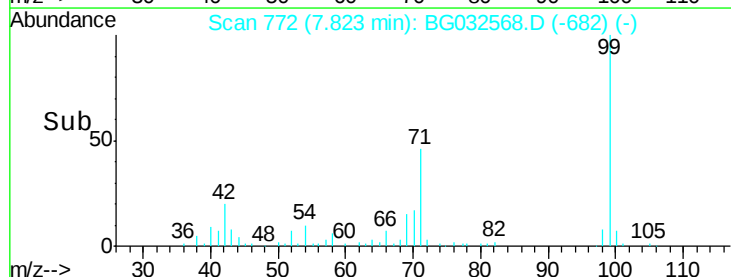
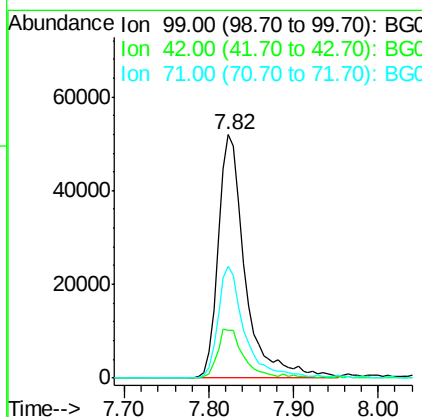
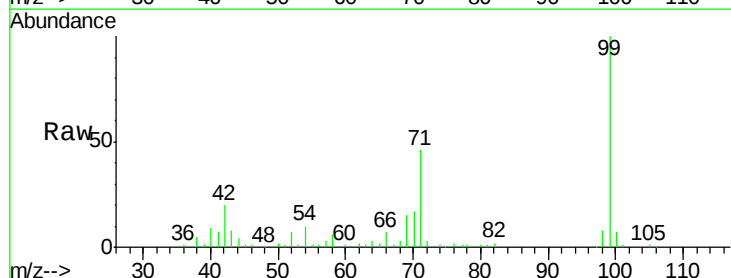
RT: 7.82 min Scan# 772

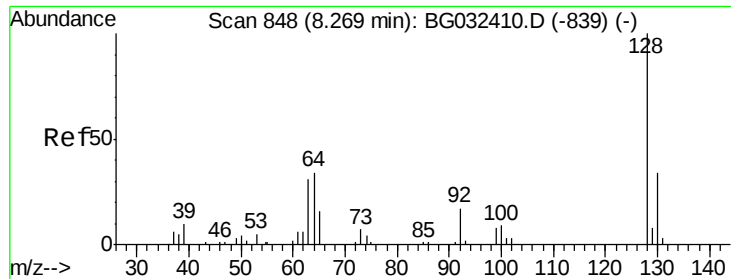
Delta R.T. 0.00 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 99    | Resp: | 115500 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 19.8  | 14.1  | 21.1   |
| 71       | 45.9  | 26.1  | 39.1#  |





#8

2-Chlorophenol

Concen: 0.912 ng

RT: 8.26 min Scan# 846

Delta R.T. 0.00 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

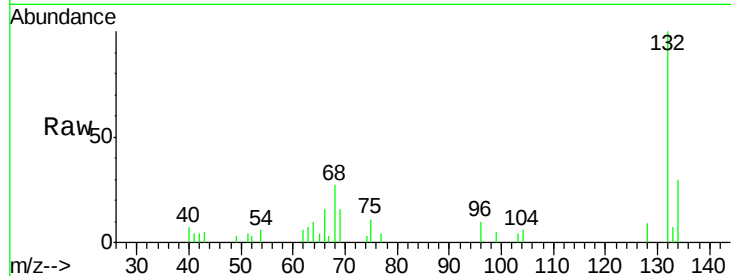
ClientSampleId :

MDL-SOIL-03-QT1-2018

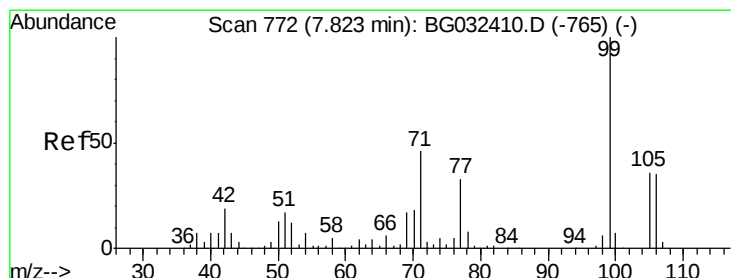
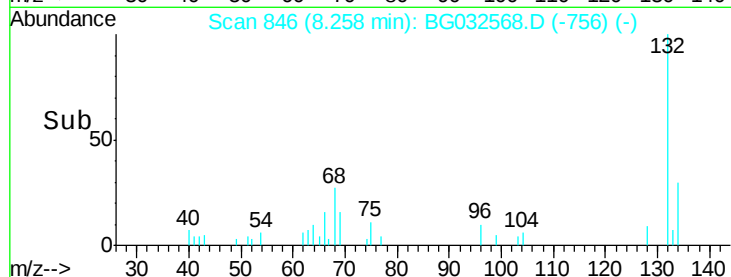
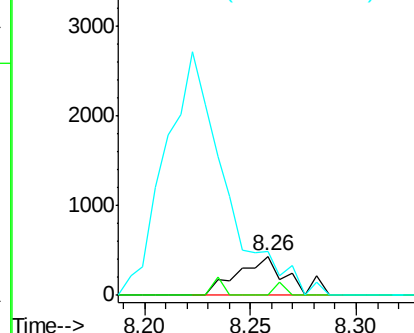
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 718   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 130       | 0.0   | 14.0  | 54.0# |
| 64        | 110.2 | 37.7  | 77.7# |

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



#9

Benzaldehyde

Concen: 1.028 ng

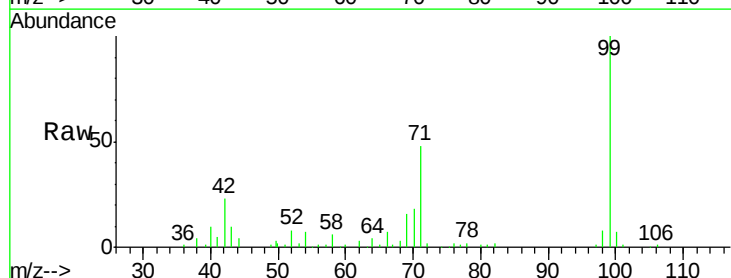
RT: 7.82 min Scan# 771

Delta R.T. 0.01 min

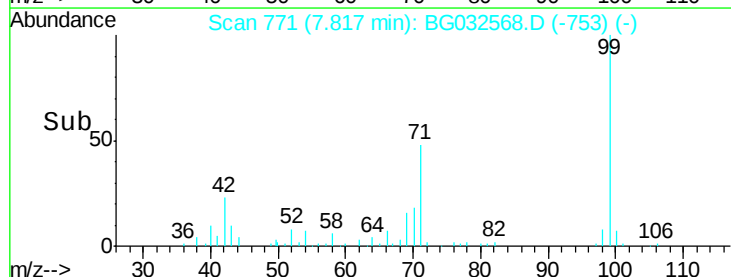
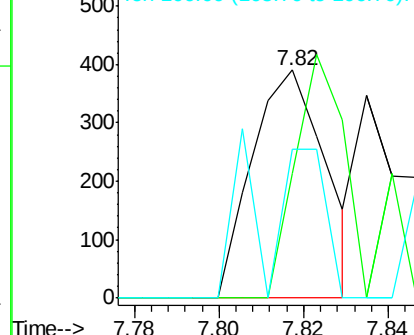
Lab File: BG032568.D

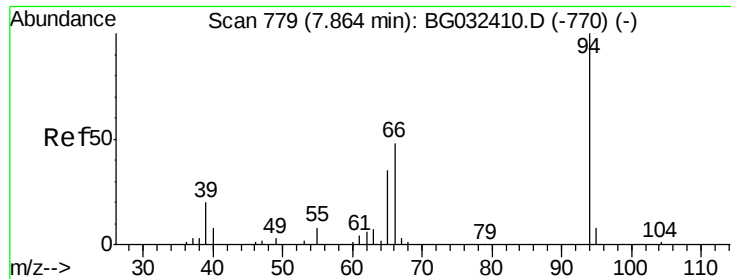
Acq: 6 Feb 2018 16:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 77    | Resp: | 472    |
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 105       | 54.9  | 71.3  | 111.3# |
| 106       | 65.4  | 64.2  | 104.2  |



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





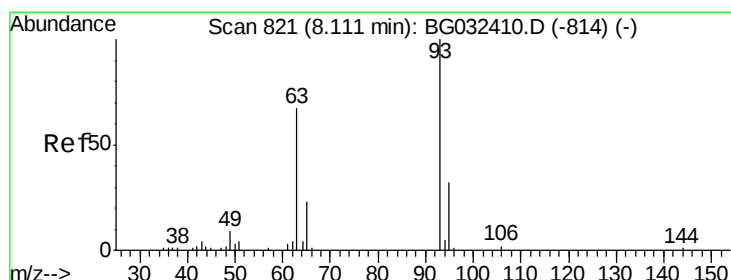
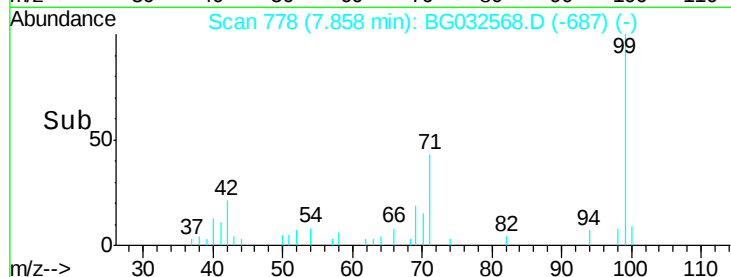
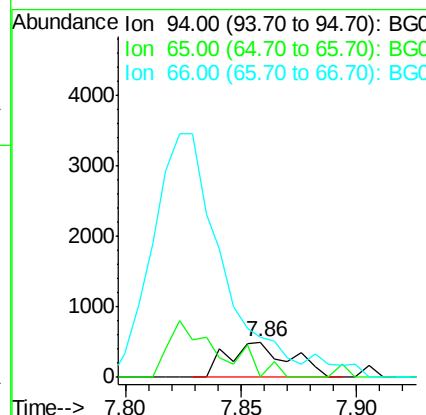
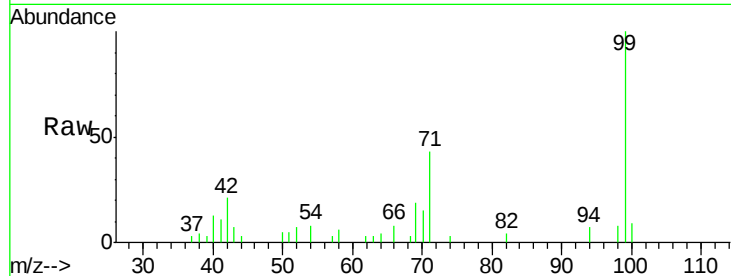
#10  
Phenol  
Concen: 1.087 ng  
RT: 7.86 min Scan# 778  
Delta R.T. 0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 0.0   | 11.9  | 51.9# |
| 66      | 113.0 | 22.2  | 62.2# |

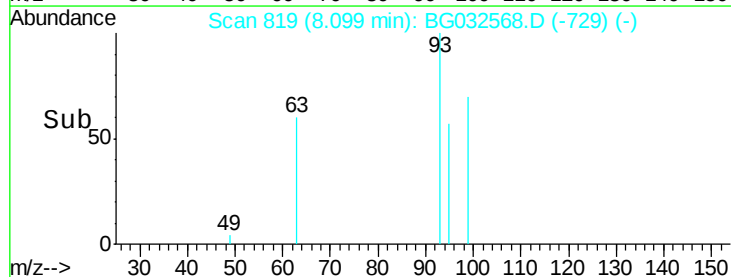
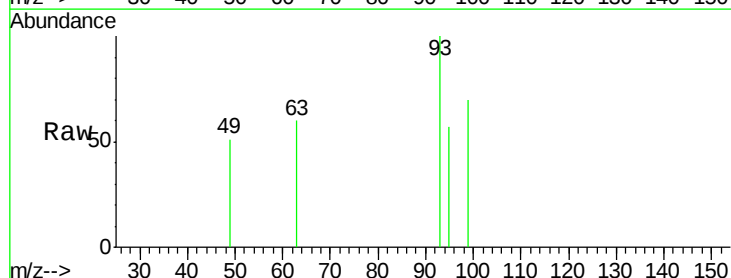
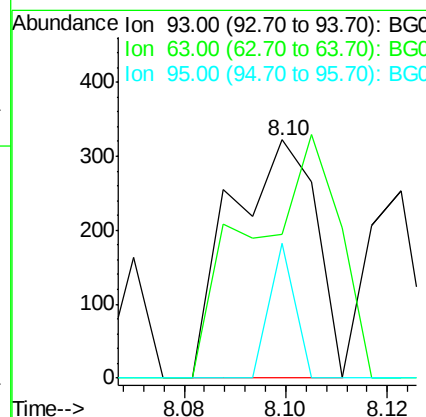
Manual Integrations  
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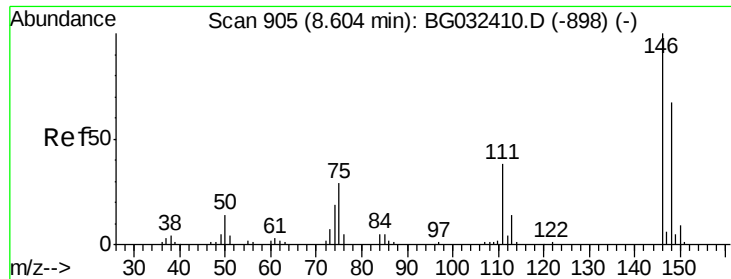
Sohil  
2/7/2018 4:14:29 PM



#11  
bis(2-Chloroethyl)ether  
Concen: 0.581 ng  
RT: 8.10 min Scan# 819  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 93      | 100   |       |        |
| 63      | 60.2  | 67.1  | 107.1# |
| 95      | 56.5  | 11.5  | 51.5#  |





#12

1,3-Dichlorobenzene

Concen: 1.043 ng m

RT: 8.60 min Scan# 904

Delta R.T. 0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

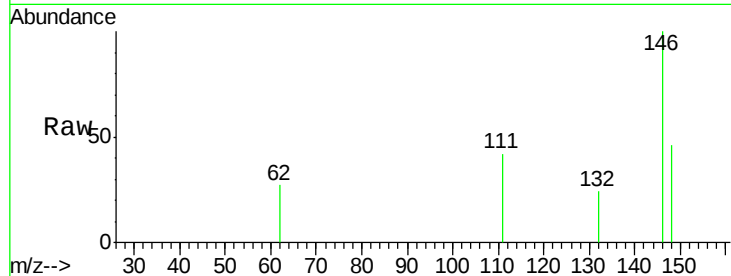
ClientSampleId :

MDL-SOIL-03-QT1-2018

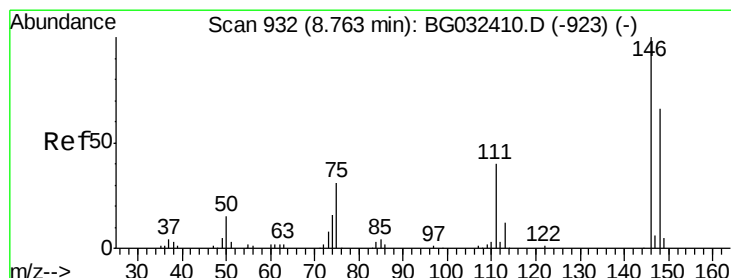
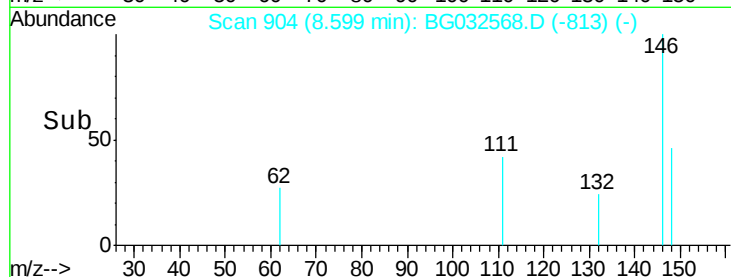
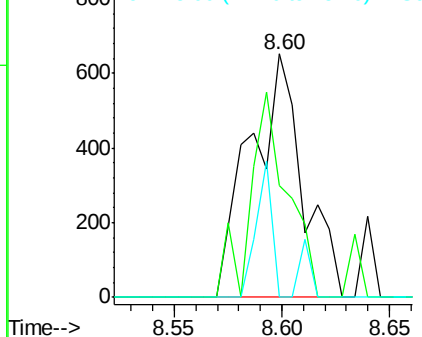
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 45.7  | 51.4  | 77.2# |
| 75      | 0.0   | 26.6  | 39.8# |

Manual Integrations  
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2/7/2018 4:14:29 PM



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



#13

1,4-Dichlorobenzene

Concen: 1.328 ng

RT: 8.75 min Scan# 929

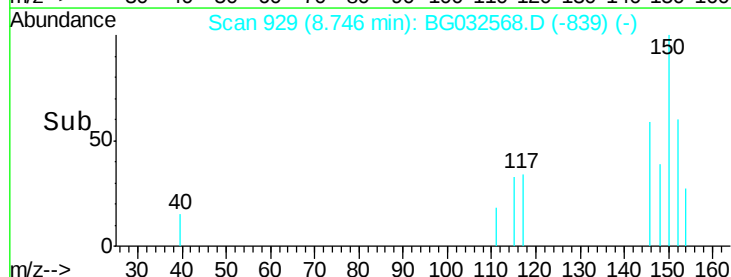
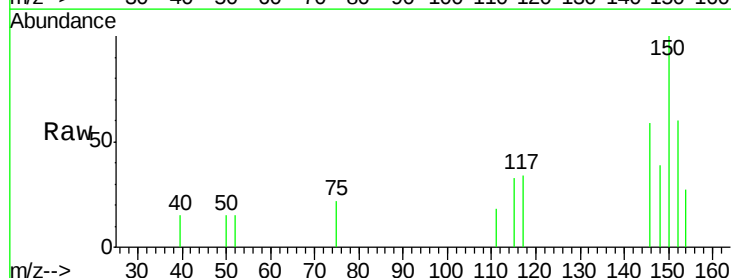
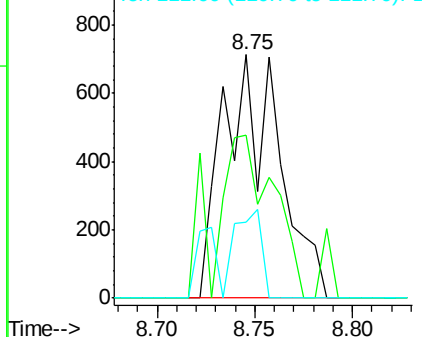
Delta R.T. 0.00 min

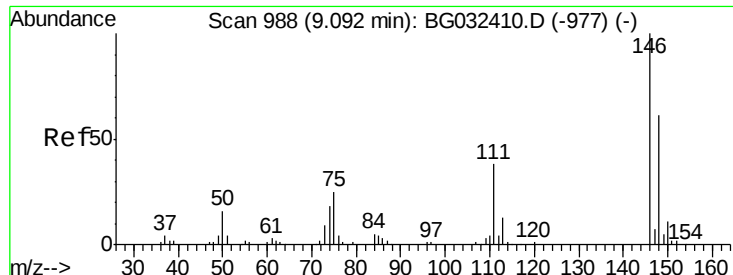
Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 67.0  | 53.7  | 80.5  |
| 111     | 31.0  | 35.2  | 52.8# |

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





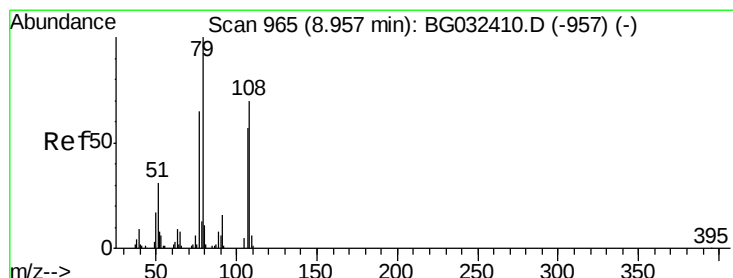
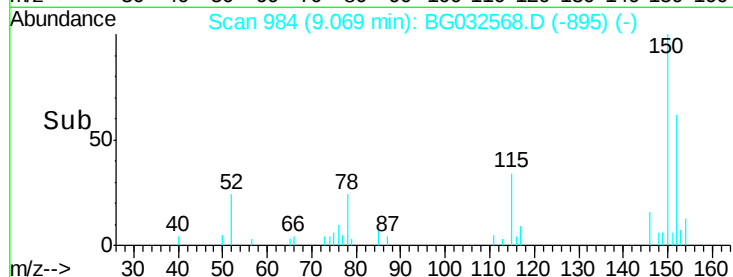
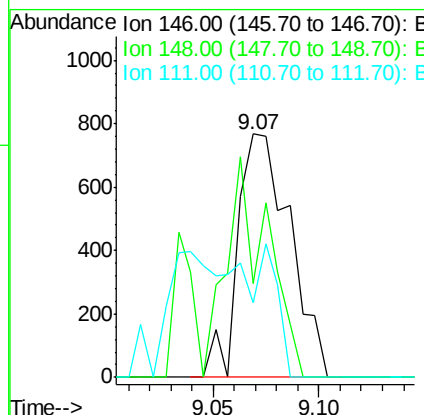
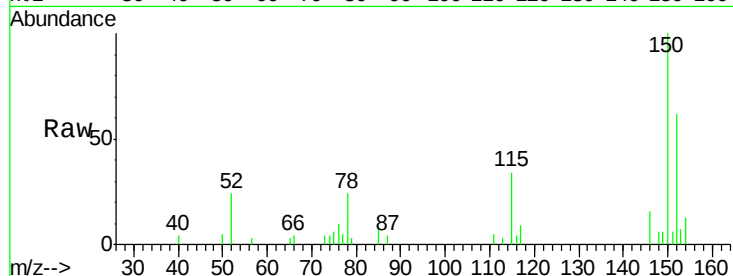
#14  
 1,2-Dichlorobenzene  
 Concen: 1.253 ng  
 RT: 9.07 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 38.8  | 49.3  | 73.9# |
| 111     | 30.6  | 34.3  | 51.5# |

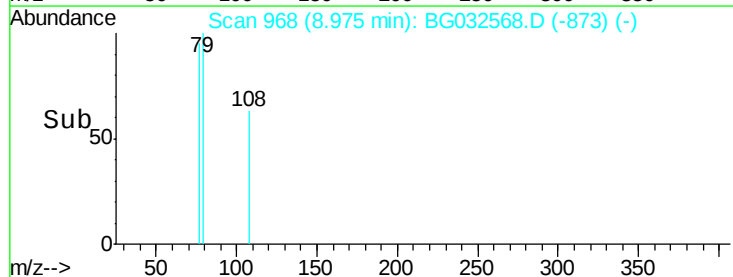
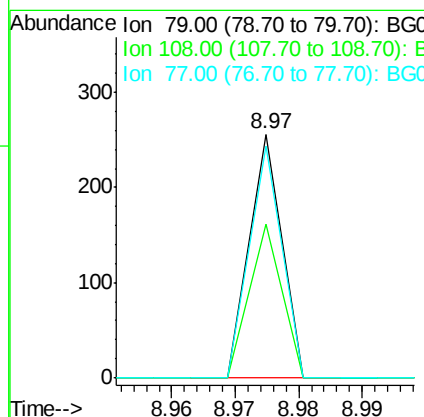
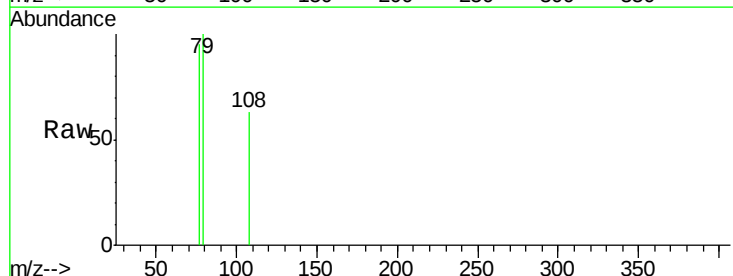
Manual Integrations  
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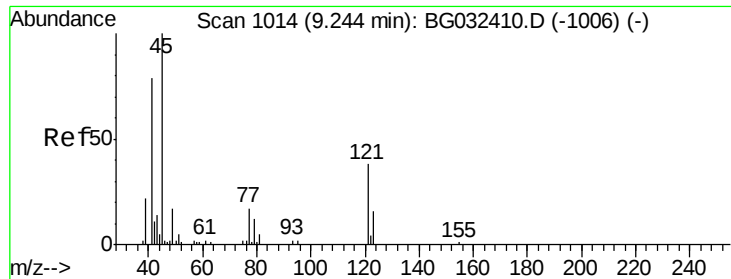
Sohil  
 2/7/2018 4:14:29 PM



#15  
 Benzyl Alcohol  
 Concen: 0.123 ng  
 RT: 8.97 min Scan# 968  
 Delta R.T. 0.03 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 63.3  | 57.2  | 85.8  |
| 77      | 94.9  | 46.1  | 69.1# |





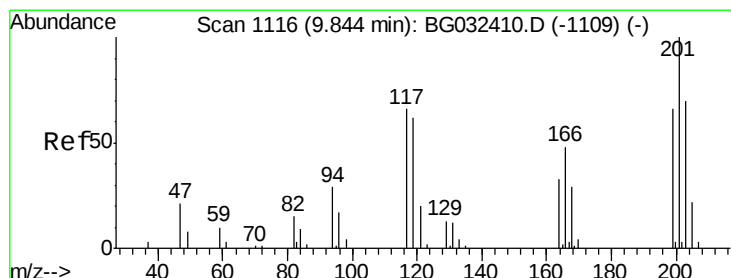
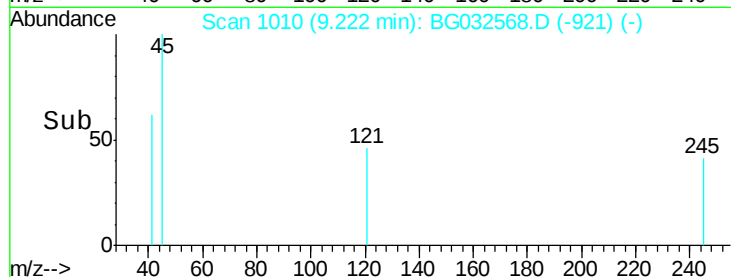
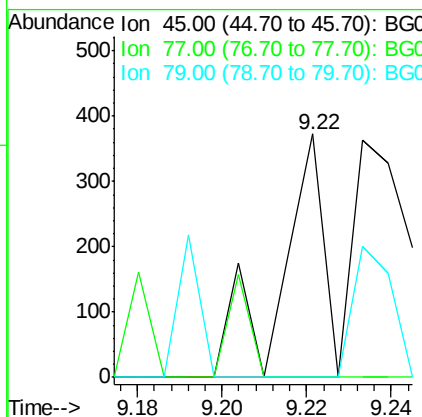
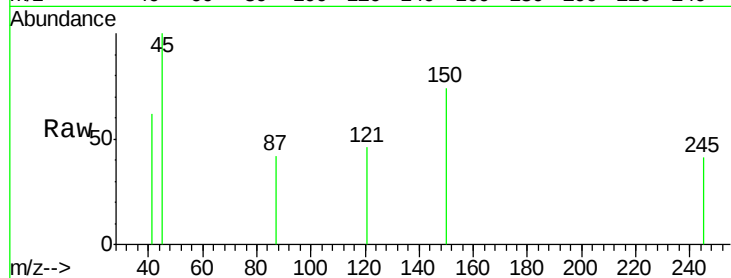
#16  
2,2'-oxvbis(1-Chloropropane)  
Concen: 0.427 ng  
RT: 9.22 min Scan# 1010  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 0.0   | 0.0   | 30.2  |
| 79      | 0.0   | 0.0   | 27.9  |

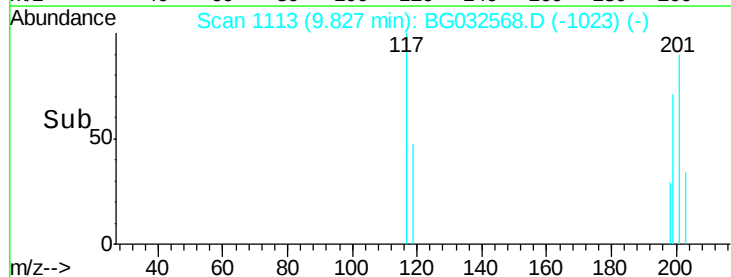
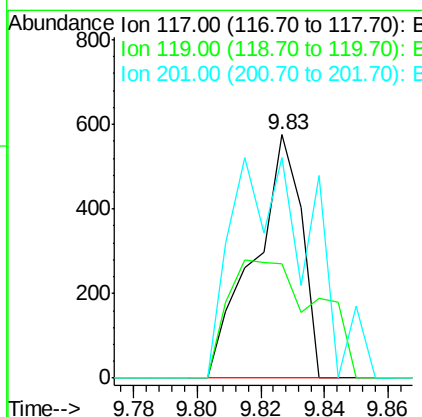
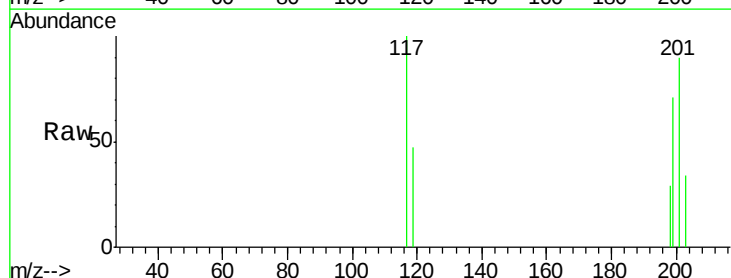
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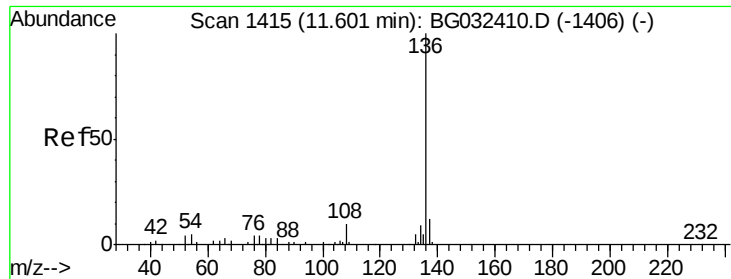
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2/7/2018 4:14:29 PM



#18  
Hexachloroethane  
Concen: 1.669 ng  
RT: 9.83 min Scan# 1113  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 47.0  | 76.7  | 115.1# |
| 201     | 90.5  | 95.7  | 143.5# |





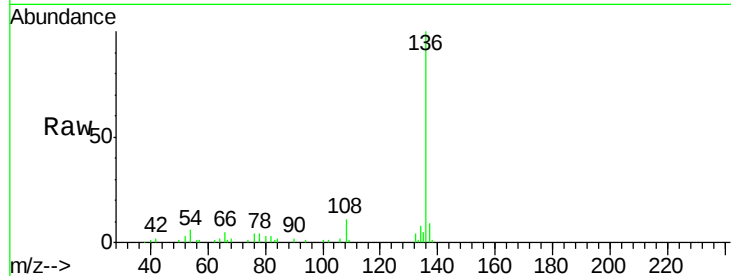
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.58 min Scan# 1412  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

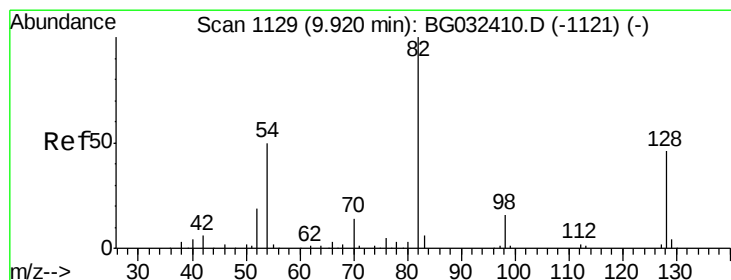
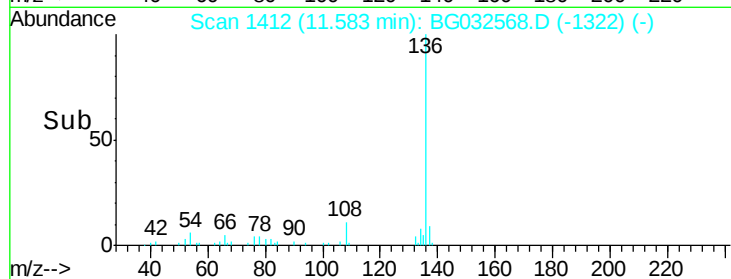
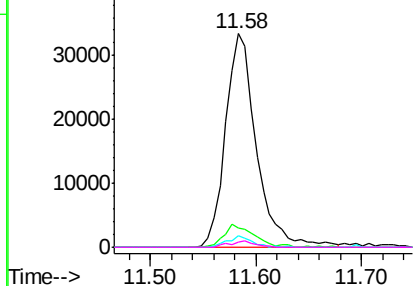
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 9.3   | 9.2   | 13.8  |
| 54      | 5.7   | 10.3  | 15.5# |
| 68      | 2.5   | 4.5   | 6.7#  |

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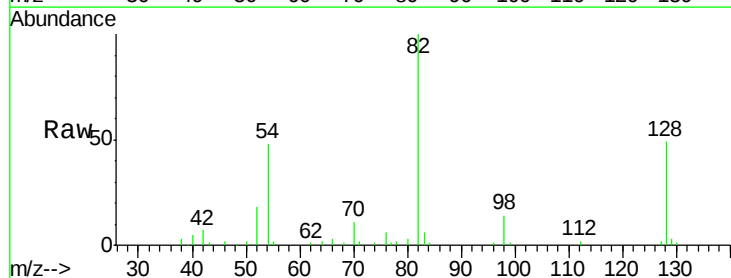


Abundance Ion 136.00 (135.70 to 136.70): BGC  
Ion 137.00 (136.70 to 137.70): BGC  
Ion 54.00 (53.70 to 54.70): BGC  
Ion 68.00 (67.70 to 68.70): BGC

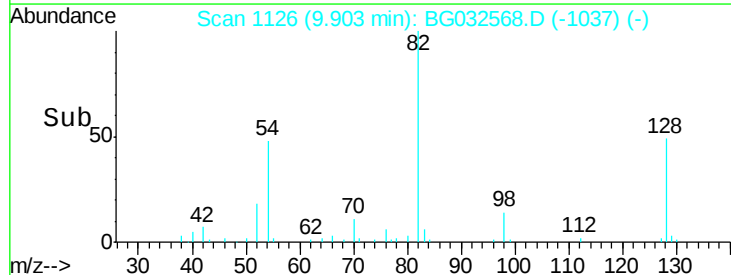
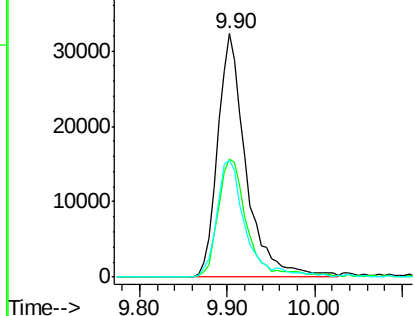


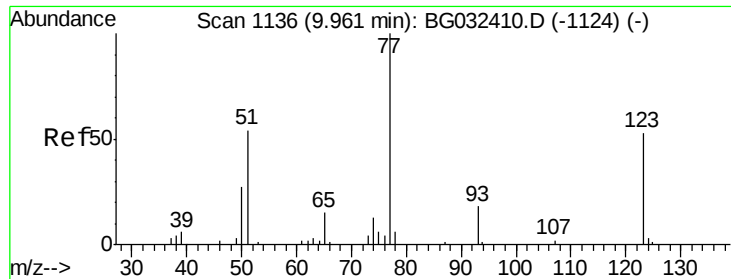
#23  
Nitrobenzene-d5  
Concen: 66.879 ng  
RT: 9.90 min Scan# 1126  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 48.6  | 29.7  | 44.5# |
| 54      | 47.8  | 43.1  | 64.7  |



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





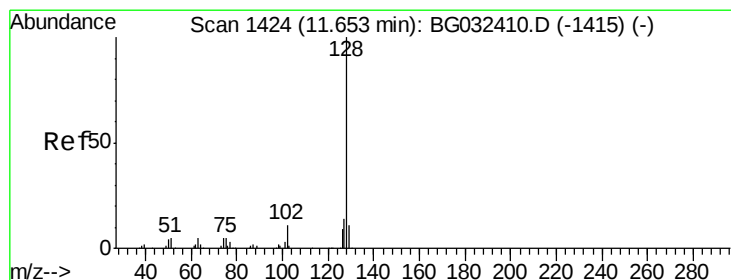
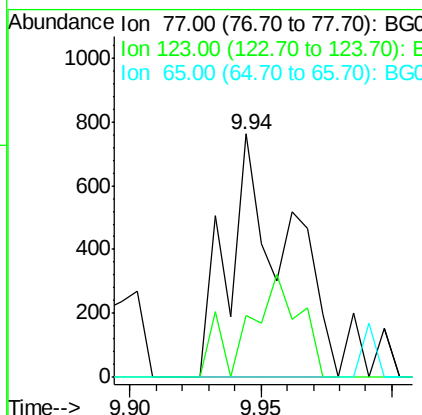
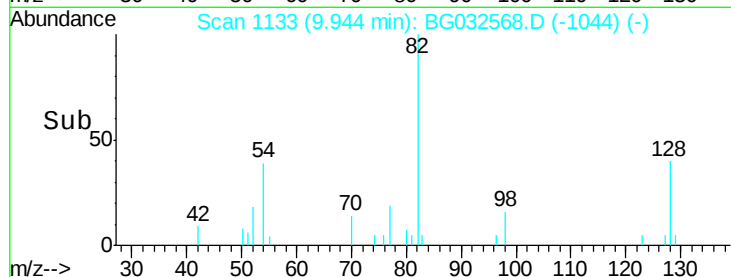
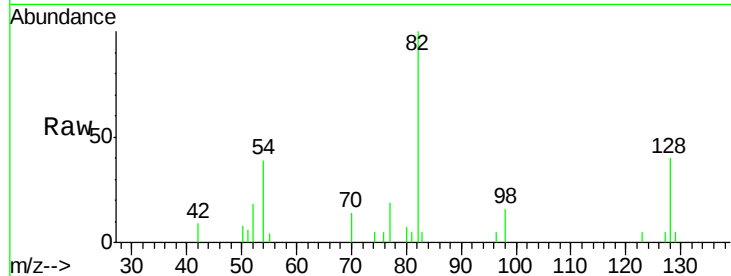
#24  
Nitrobenzene  
Concen: 1.132 ng m  
RT: 9.94 min Scan# 1133  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 25.6  | 33.0  | 49.6# |
| 65      | 0.0   | 13.0  | 19.6# |

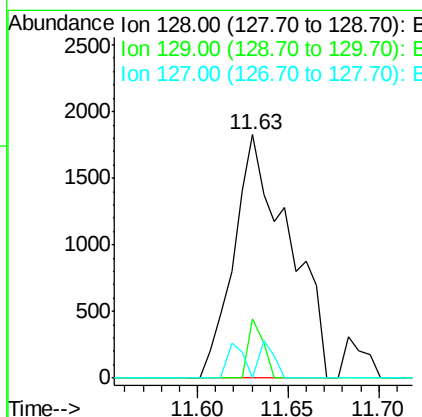
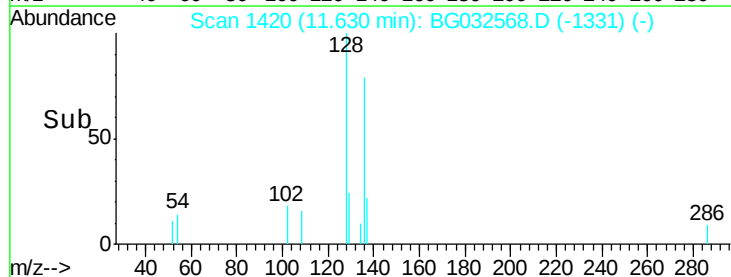
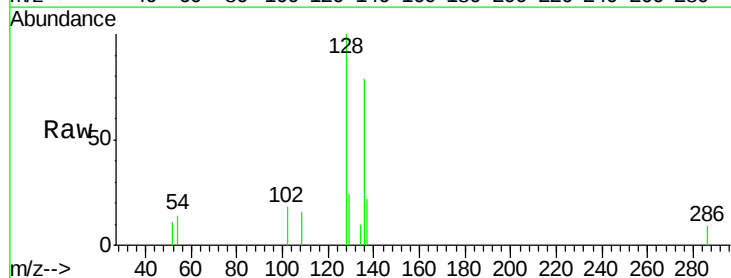
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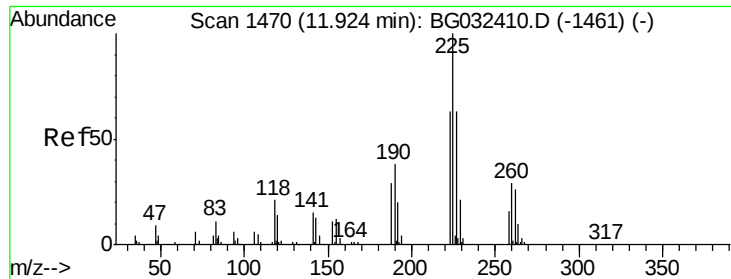
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2/7/2018 4:14:29 PM



#31  
Naphthalene  
Concen: 1.167 ng  
RT: 11.63 min Scan# 1420  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 24.4  | 8.6   | 12.8# |
| 127     | 0.0   | 11.6  | 17.4# |





#34

Hexachlorobutadiene

Concen: 1.109 ng

RT: 11.90 min Scan# 1466

Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

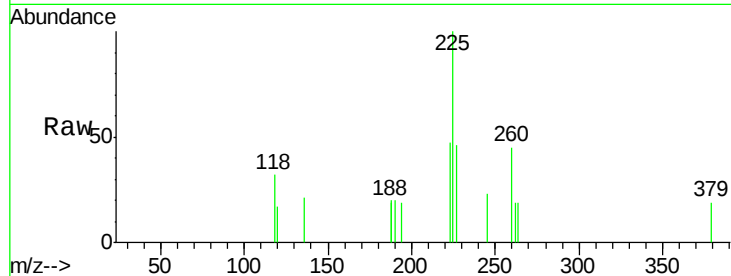
ClientSampleId :

MDL-SOIL-03-QT1-2018

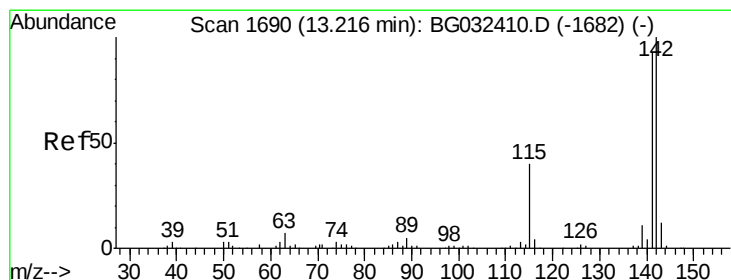
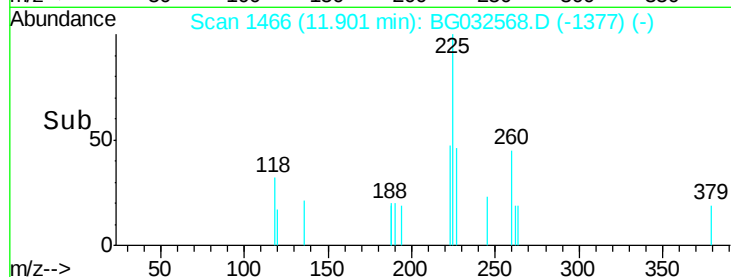
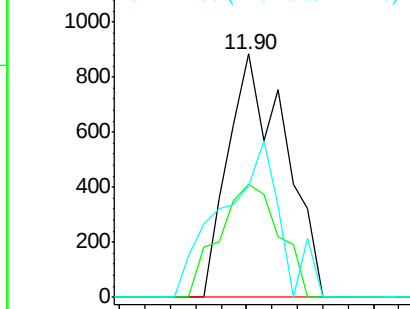
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 225   | Resp: | 1383  |
| Ion Ratio | Lower | Upper |       |
| 225       | 100   |       |       |
| 223       | 46.6  | 49.7  | 74.5# |
| 227       | 45.7  | 48.1  | 72.1# |

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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



#37

2-Methylnaphthalene

Concen: 1.006 ng

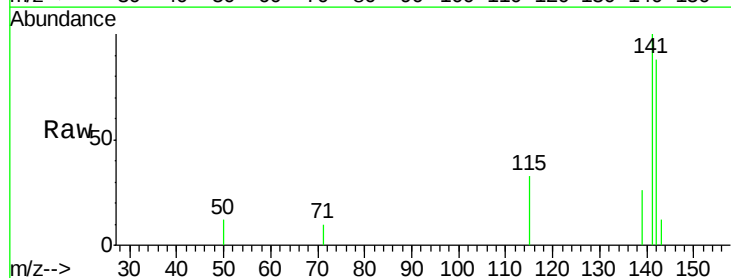
RT: 13.20 min Scan# 1687

Delta R.T. -0.01 min

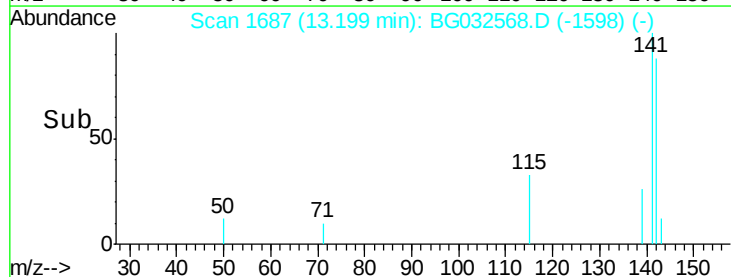
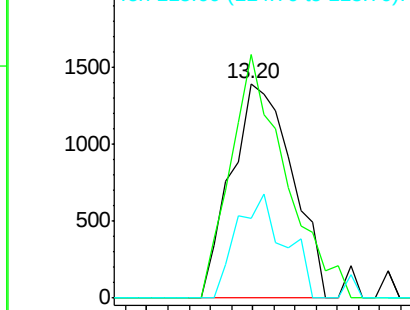
Lab File: BG032568.D

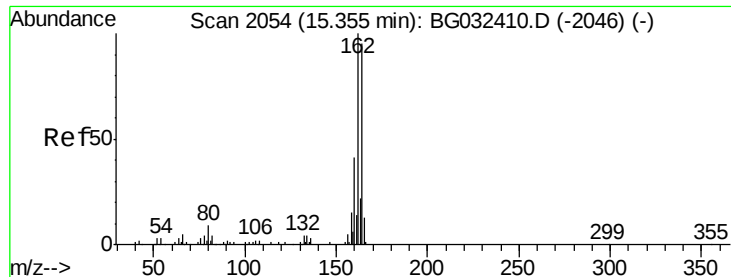
Acq: 6 Feb 2018 16:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 142   | Resp: | 2790   |
| Ion Ratio | Lower | Upper |        |
| 142       | 100   |       |        |
| 141       | 113.5 | 67.1  | 100.7# |
| 115       | 37.1  | 30.7  | 46.1   |



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





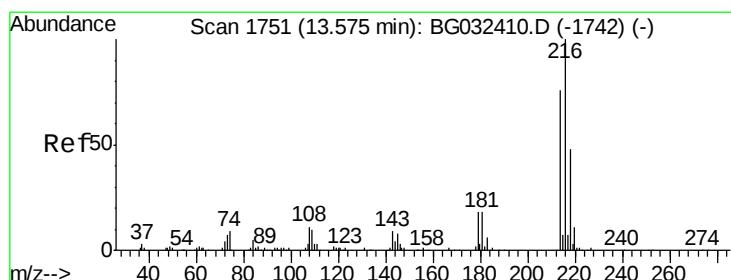
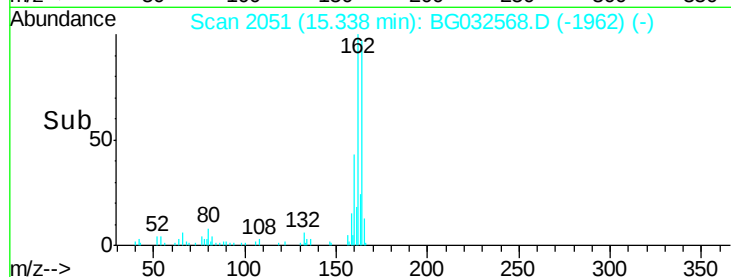
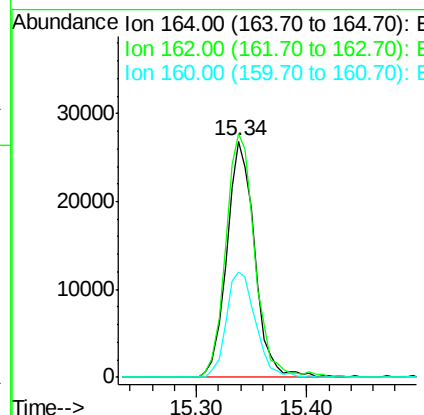
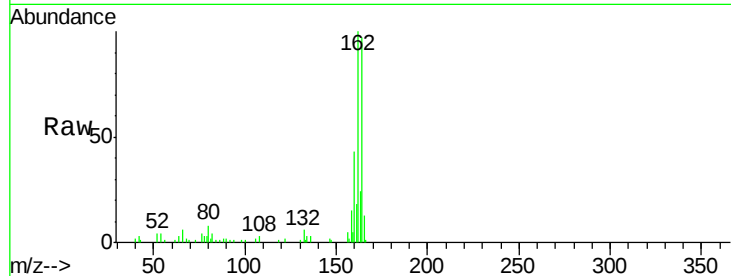
#38  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.34 min Scan# 2051  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.1 | 78.8  | 118.2 |
| 160     | 44.7  | 35.4  | 53.0  |

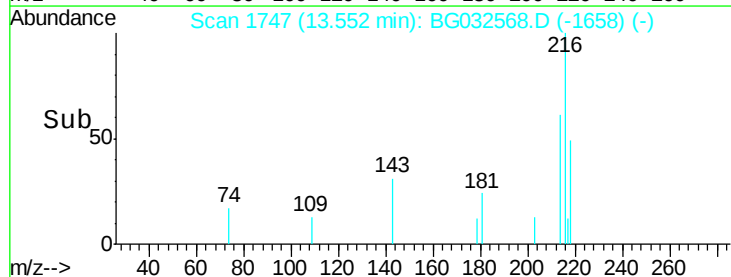
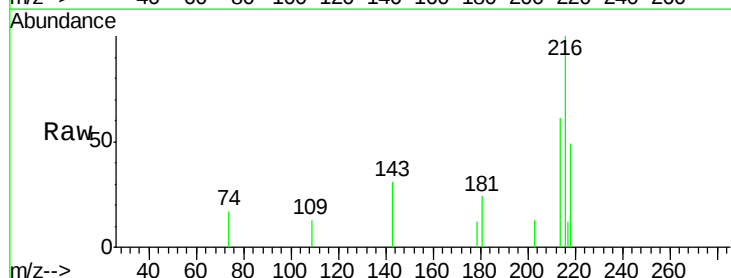
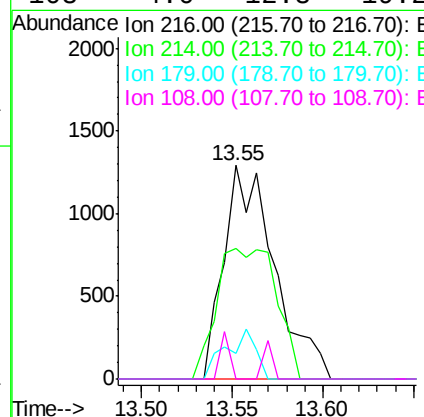
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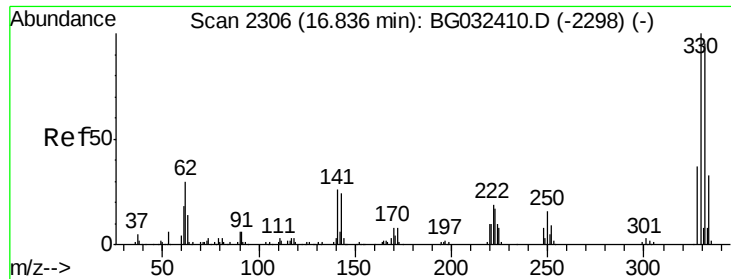
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#39  
1,2,4,5-Tetrachlorobenzene  
Concen: 1.127 ng  
RT: 13.55 min Scan# 1747  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 216     | 100   |       |       |
| 214     | 72.5  | 63.0  | 94.4  |
| 179     | 13.9  | 17.0  | 25.6# |
| 108     | 4.0   | 12.8  | 19.2# |





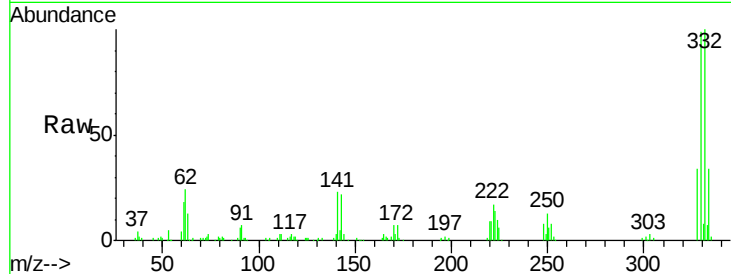
#41  
 2,4,6-Tribromophenol  
 Concen: 118.808 ng  
 RT: 16.82 min Scan# 2303  
 Delta R.T. 0.00 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

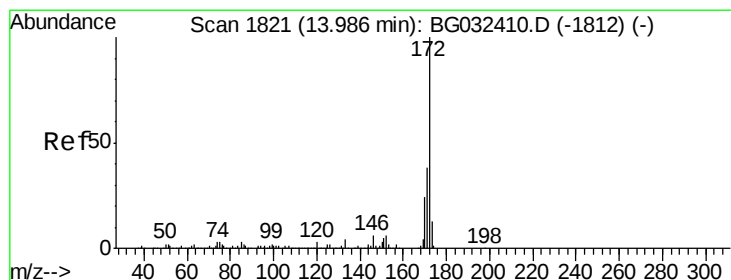
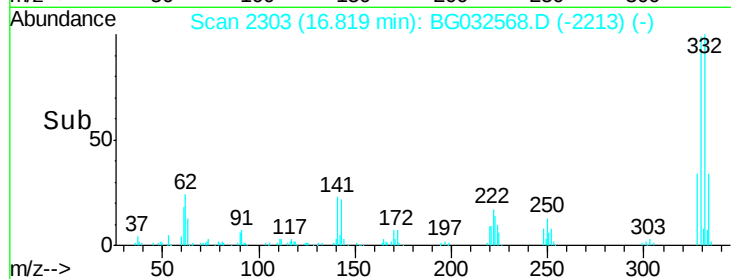
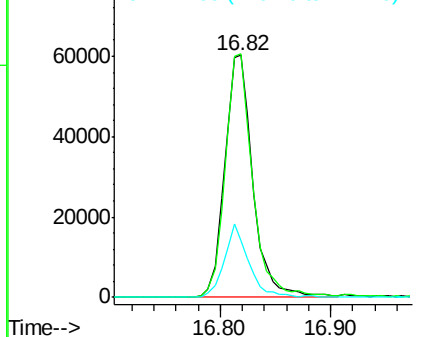
| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.8  | 77.0 | 115.6 |       |
| 141     | 25.7  | 25.2 | 37.8  |       |

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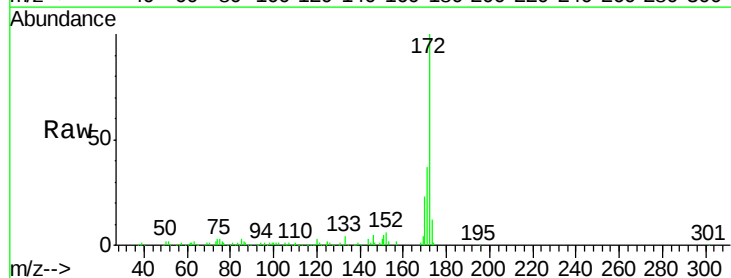


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

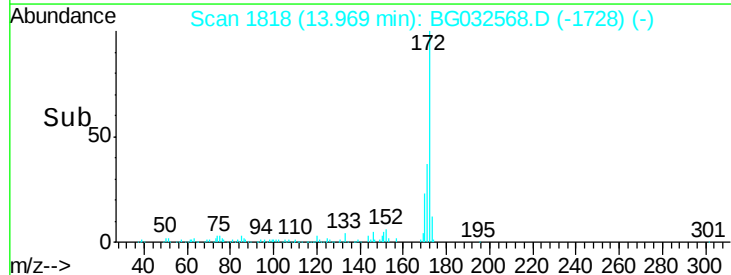
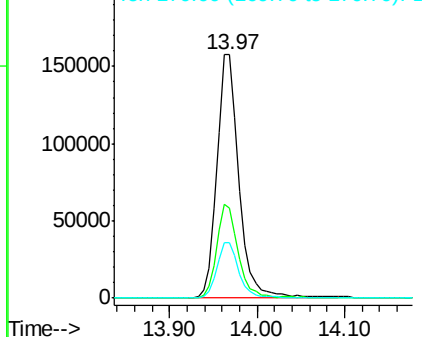


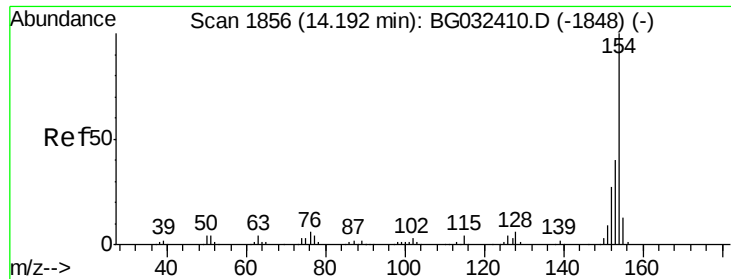
#44  
 2-Fluorobiphenyl  
 Concen: 69.467 ng  
 RT: 13.97 min Scan# 1818  
 Delta R.T. 0.00 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 172     | 100   |      |       |       |
| 171     | 37.2  | 30.0 | 45.0  |       |
| 170     | 23.0  | 19.5 | 29.3  |       |



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





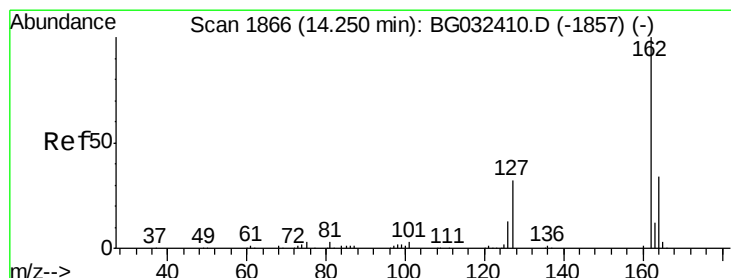
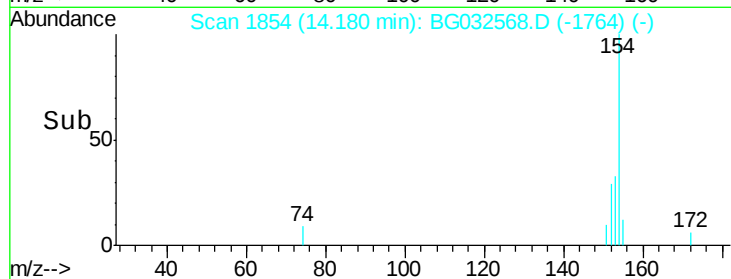
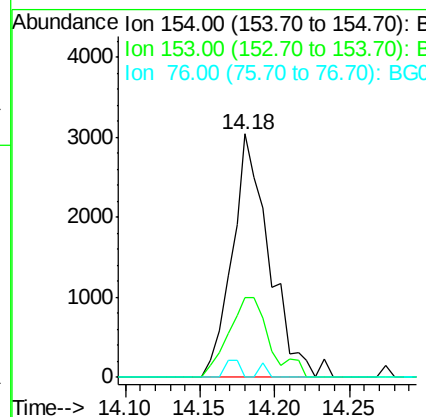
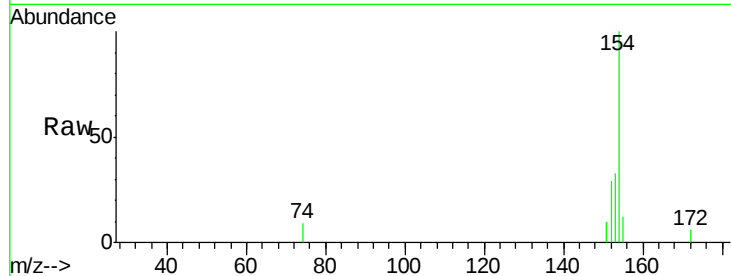
#45  
 1,1'-Biphenyl  
 Concen: 1.318 ng  
 RT: 14.18 min Scan# 1854  
 Delta R.T. 0.00 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 32.9  | 19.8  | 59.8  |
| 76      | 0.0   | 0.0   | 31.9  |

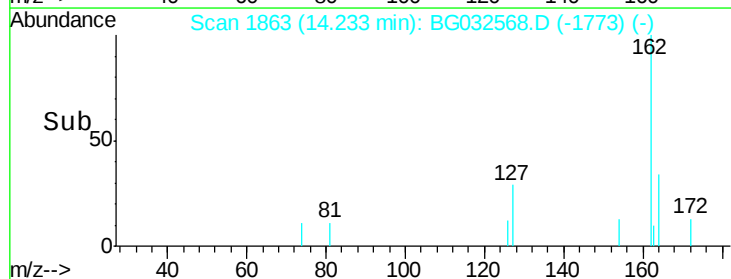
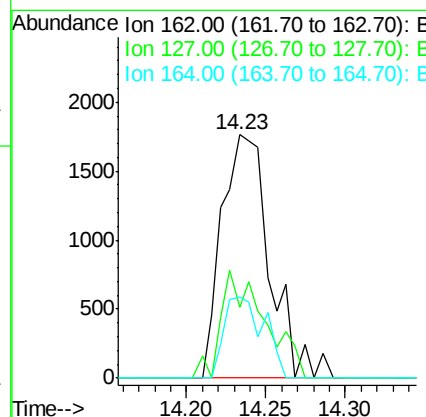
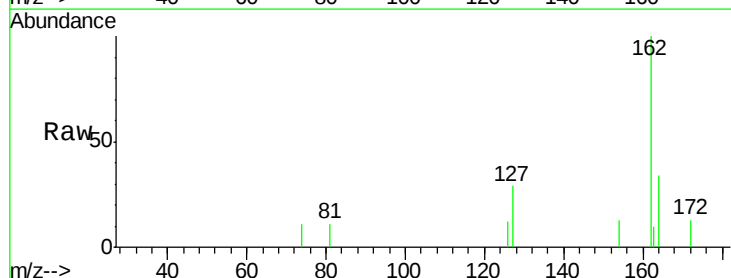
Manual Integrations  
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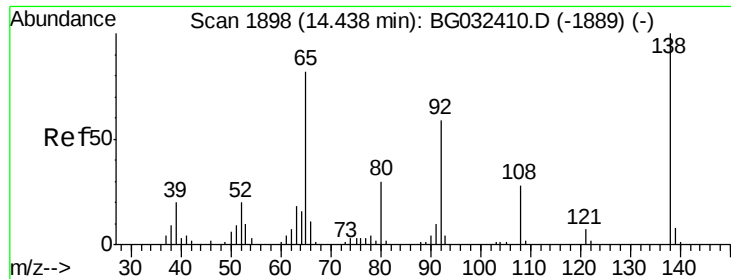
Sohil  
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#46  
 2-Chloronaphthalene  
 Concen: 1.183 ng  
 RT: 14.23 min Scan# 1863  
 Delta R.T. 0.00 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 127     | 29.0  | 30.7  | 46.1# |
| 164     | 33.5  | 26.0  | 39.0  |





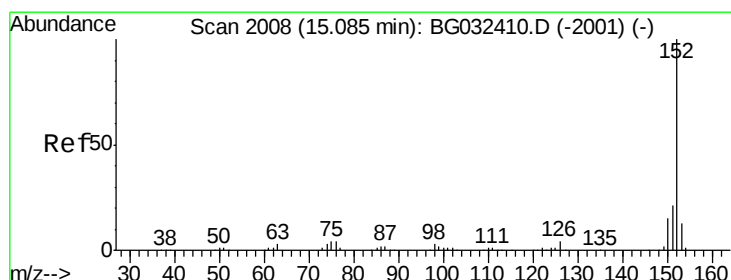
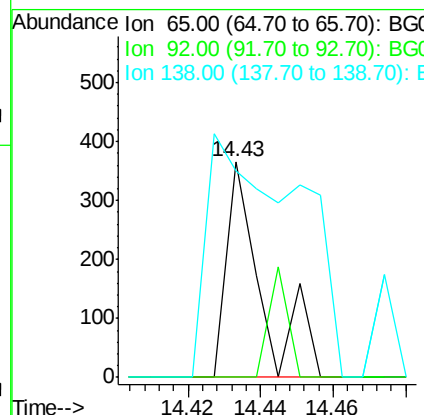
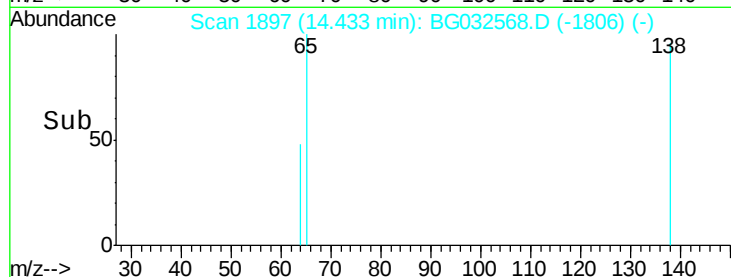
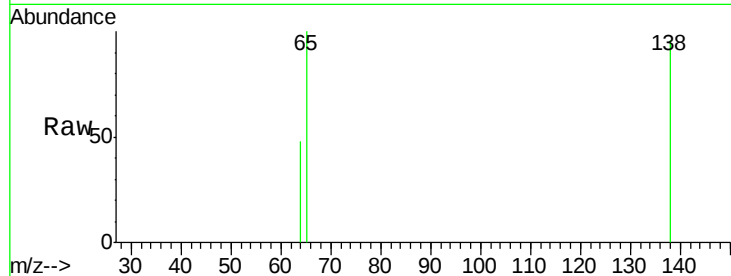
#47  
2-Nitroaniline  
Concen: 0.354 ng  
RT: 14.43 min Scan# 1897  
Delta R.T. 0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 92      | 0.0   | 54.6  | 82.0# |
| 138     | 95.6  | 72.9  | 109.3 |

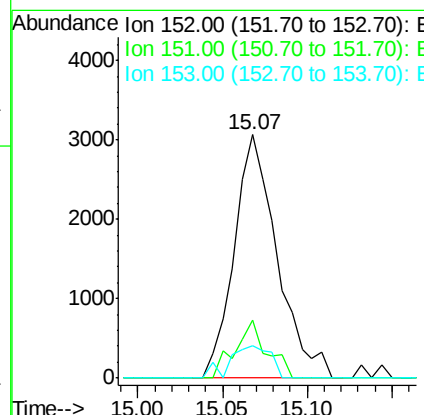
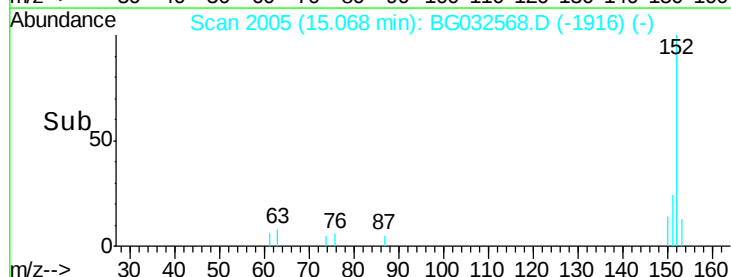
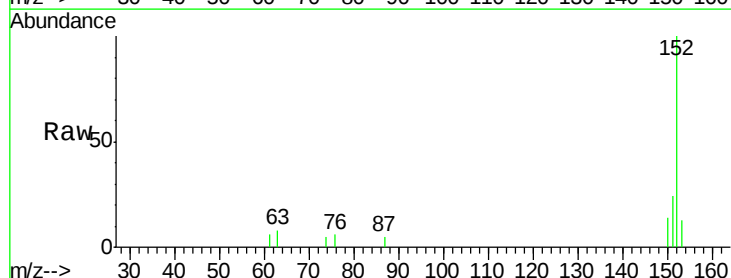
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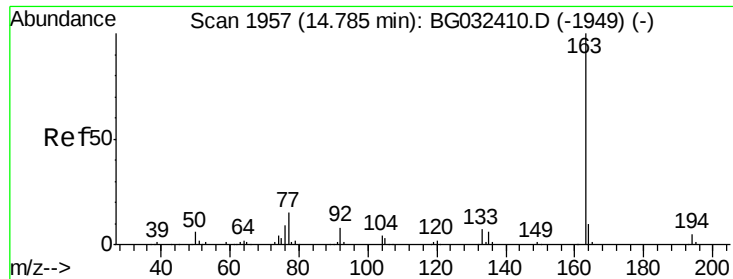
Sohil  
2/7/2018 4:14:29 PM



#48  
Acenaphthylene  
Concen: 1.141 ng  
RT: 15.07 min Scan# 2005  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 23.7  | 17.2  | 25.8  |
| 153     | 13.3  | 10.2  | 15.4  |





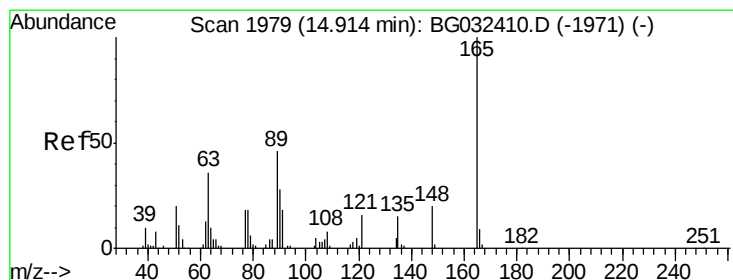
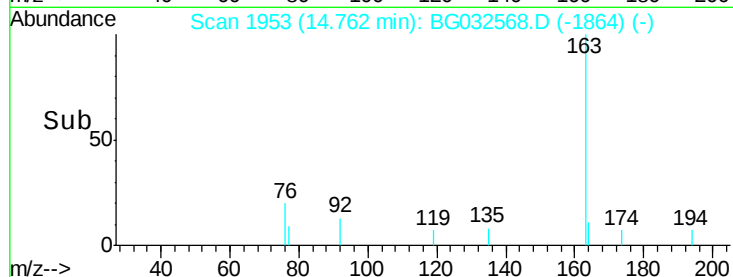
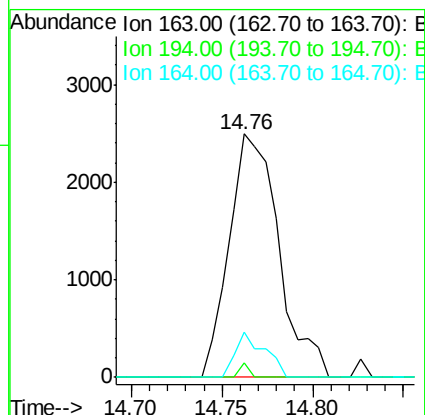
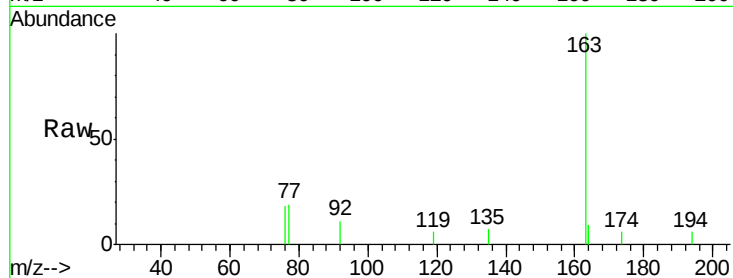
#49  
Dimethylphthalate  
Concen: 1.089 ng  
RT: 14.76 min Scan# 1953  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 6.1   | 3.4   | 5.2#  |
| 164     | 18.5  | 8.2   | 12.4# |

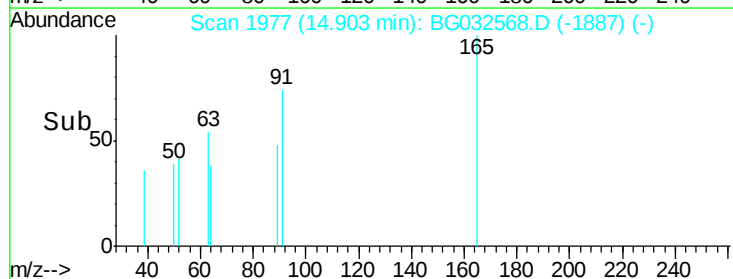
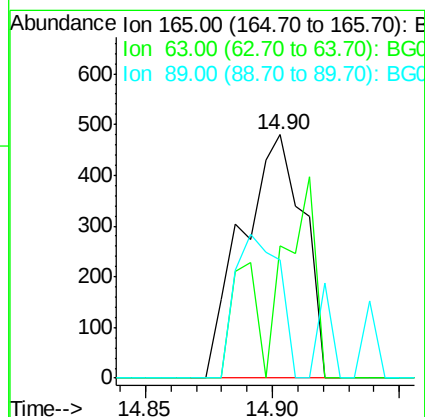
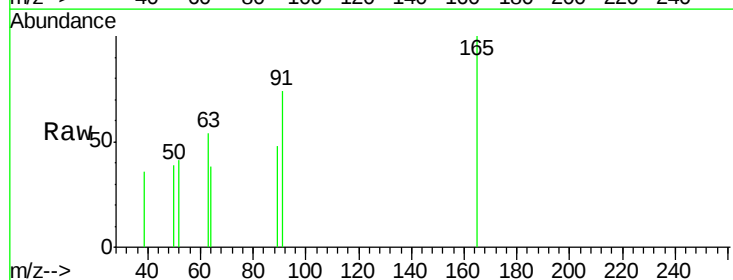
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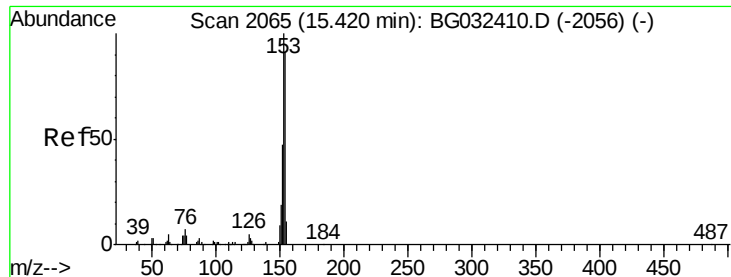
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2/7/2018 4:14:29 PM



#50  
2,6-Dinitrotoluene  
Concen: 0.884 ng  
RT: 14.90 min Scan# 1977  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 54.4  | 52.7  | 79.1  |
| 89      | 48.3  | 49.2  | 73.8# |





#51

Acenaphthene

Concen: 1.056 ng

RT: 15.40 min Scan# 2062

Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

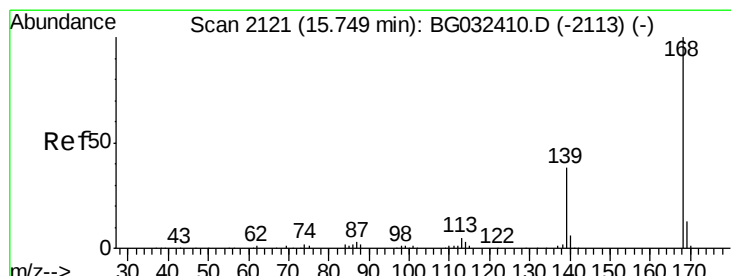
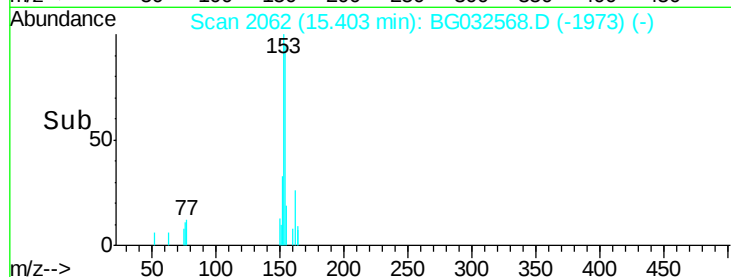
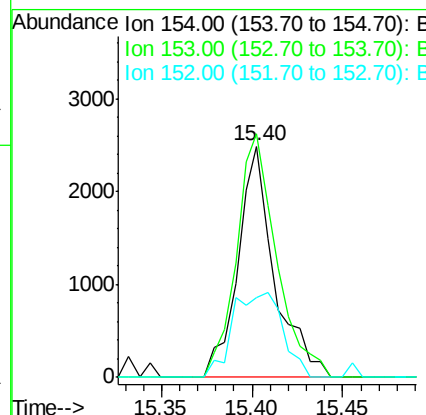
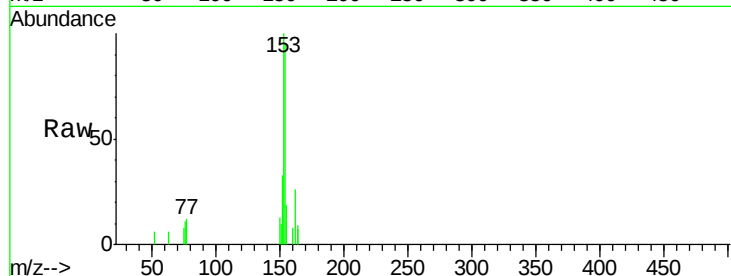
ClientSampleId :

MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 105.5 | 90.4  | 135.6 |
| 152     | 34.8  | 41.6  | 62.4  |

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#54

Dibenzofuran

Concen: 1.205 ng

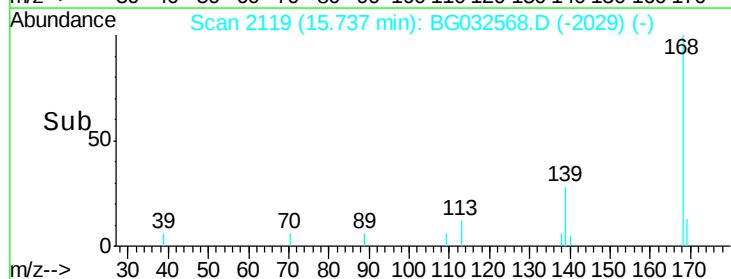
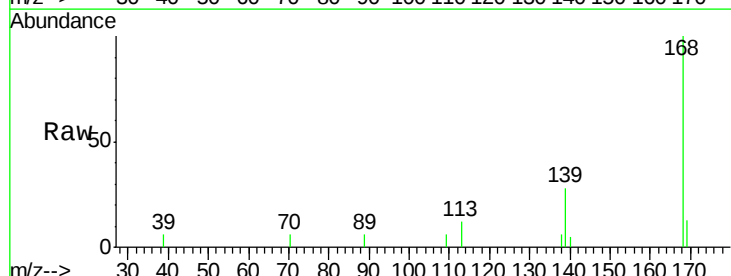
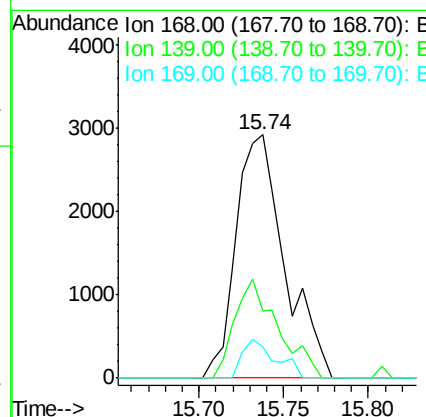
RT: 15.74 min Scan# 2119

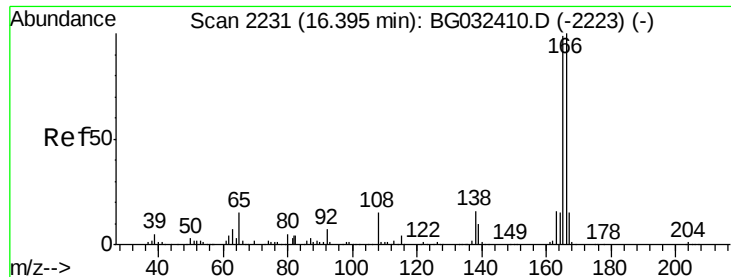
Delta R.T. 0.00 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 27.7  | 28.6  | 43.0  |
| 169     | 12.8  | 11.2  | 16.8  |





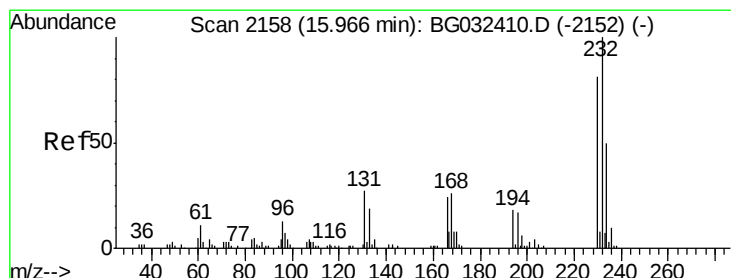
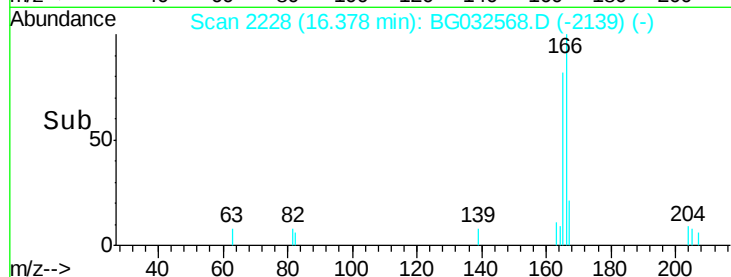
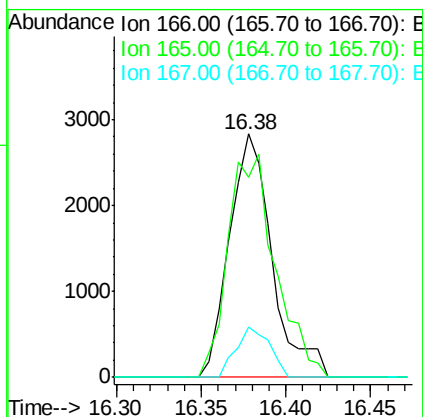
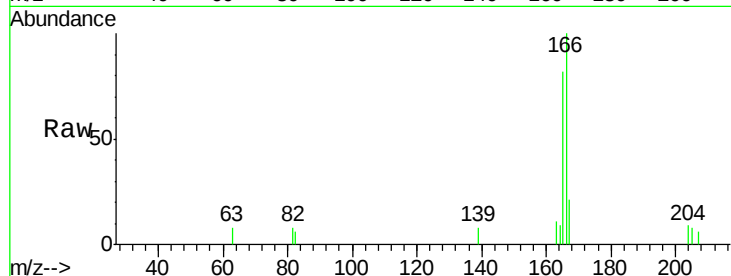
#57  
 Fluorene  
 Concen: 1.233 ng  
 RT: 16.38 min Scan# 2228  
 Delta R.T. -0.01 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 82.3  | 80.6  | 121.0 |
| 167     | 20.9  | 10.4  | 15.6  |

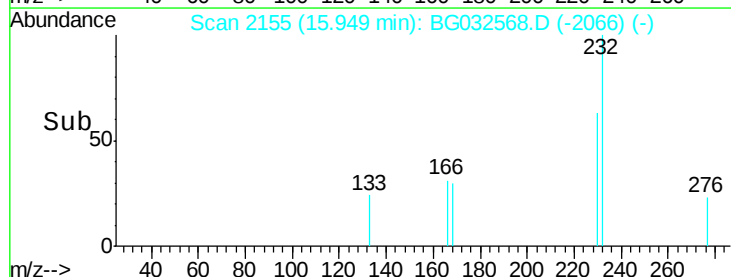
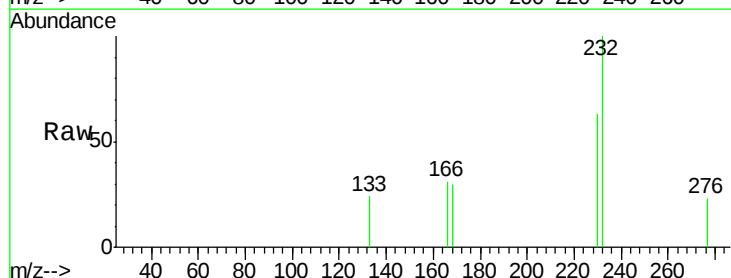
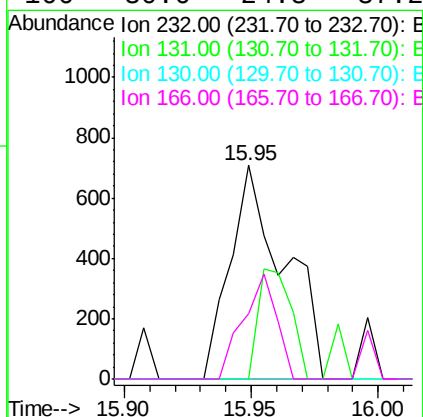
Manual Integrations  
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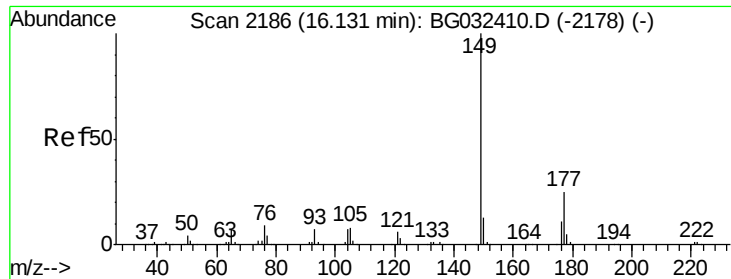
Sohil  
 2/7/2018 4:14:29 PM



#58  
 2,3,4,6-Tetrachlorophenol  
 Concen: 0.757 ng  
 RT: 15.95 min Scan# 2155  
 Delta R.T. -0.01 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 31.5  | 33.5  | 50.3  |
| 130     | 0.0   | 2.2   | 3.2   |
| 166     | 30.6  | 24.8  | 37.2  |





#59

Diethylphthalate

Concen: 1.177 ng

RT: 16.10 min Scan# 2181

Delta R.T. -0.02 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

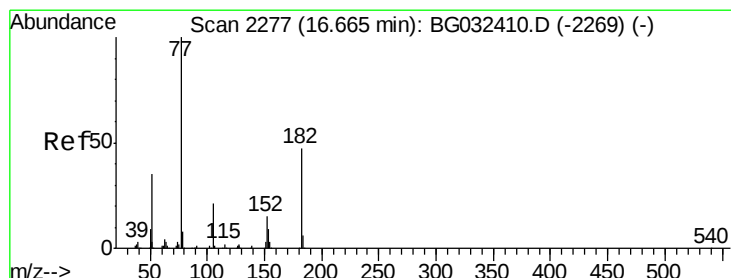
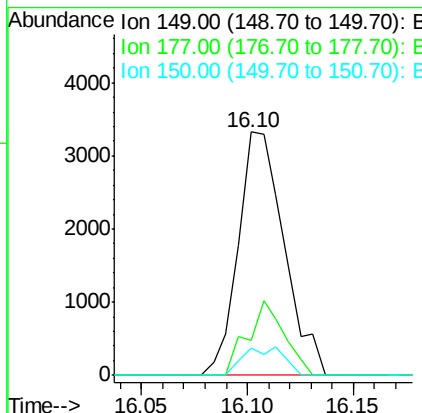
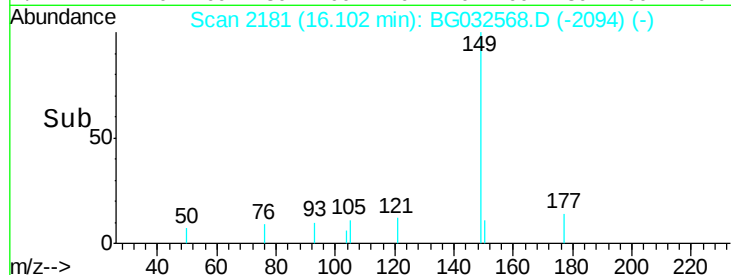
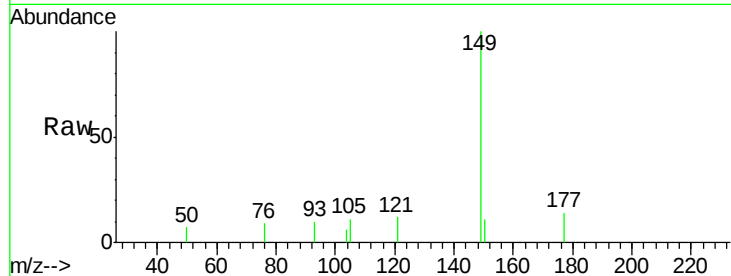
ClientSampleId :

MDL-SOIL-03-QT1-2018

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 149   | Resp: | 5012  |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 177       | 14.4  | 18.5  | 27.7# |
| 150       | 11.1  | 10.2  | 15.2  |

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#62

Azobenzene

Concen: 1.035 ng

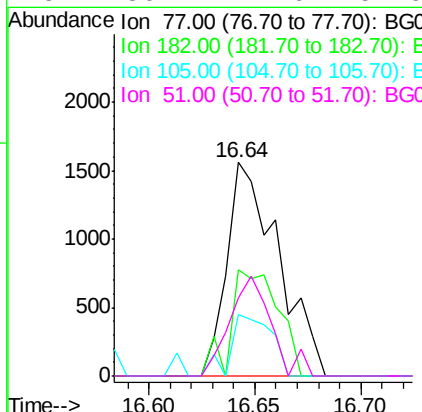
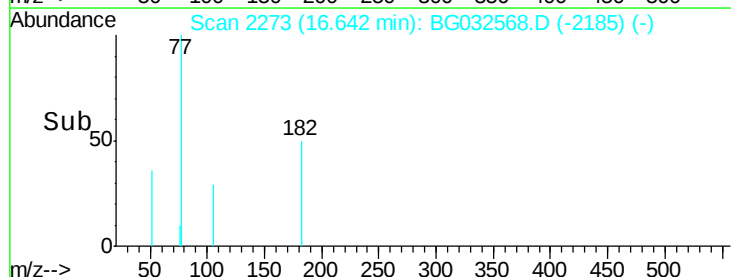
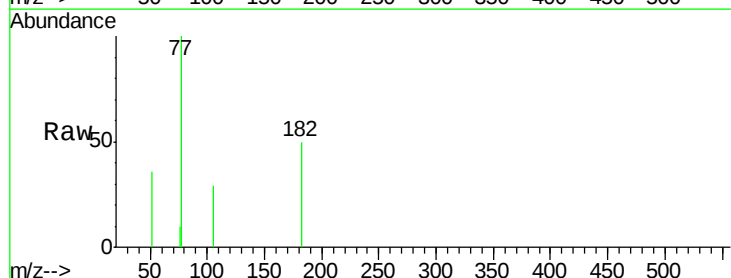
RT: 16.64 min Scan# 2273

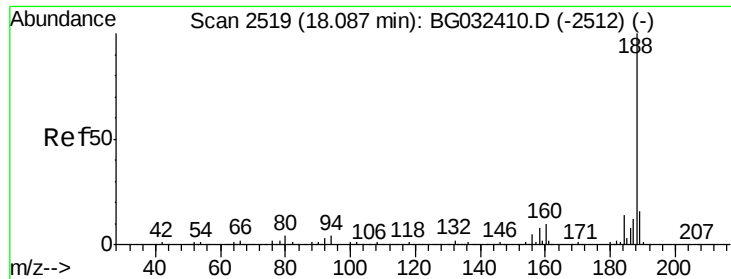
Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 77    | Resp: | 2634  |
| Ion Ratio | Lower | Upper |       |
| 77        | 100   |       |       |
| 182       | 49.7  | 7.4   | 47.4# |
| 105       | 28.7  | 0.3   | 40.3  |
| 51        | 36.4  | 11.6  | 51.6  |





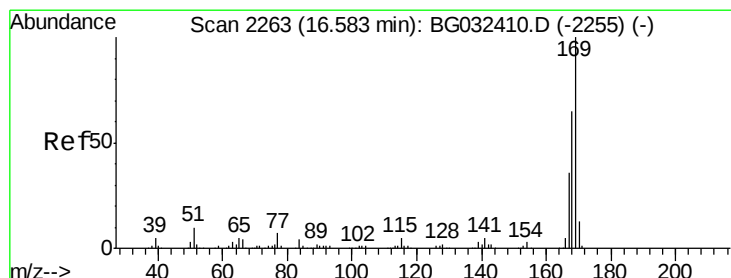
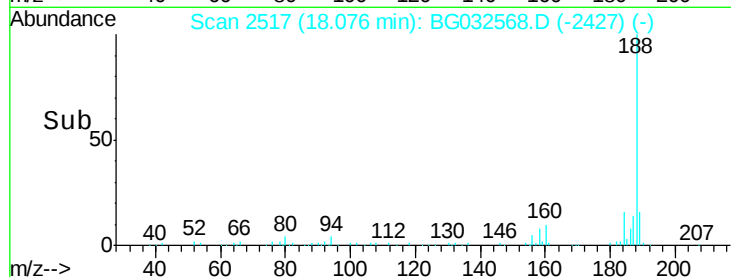
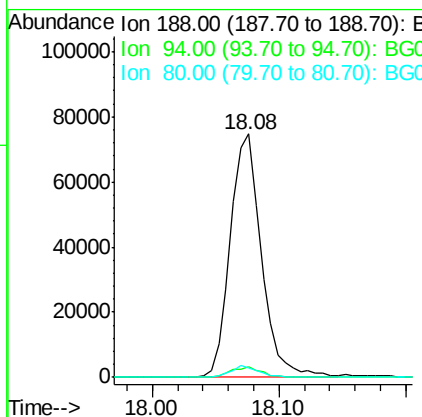
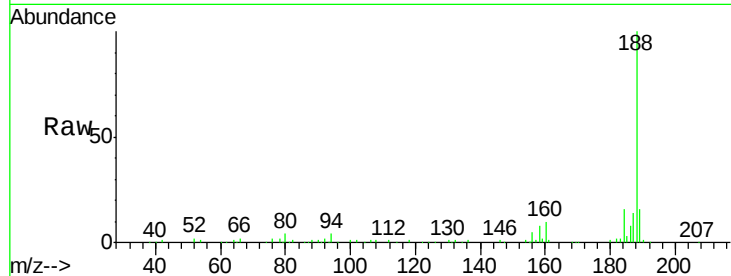
#63  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 18.08 min Scan# 2517  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 4.5   | 6.9        | 10.3# |
| 80      | 3.9   | 7.7        | 11.5# |

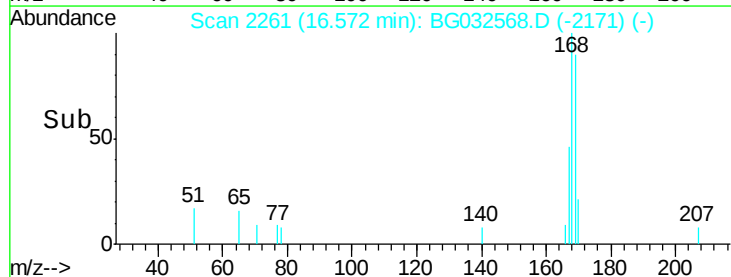
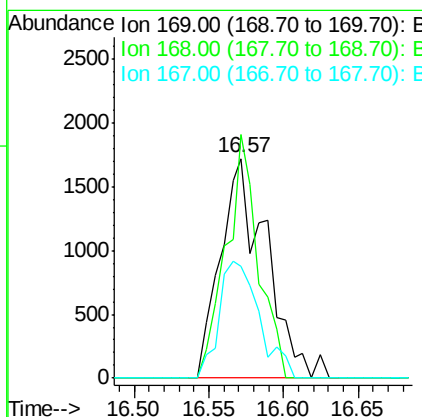
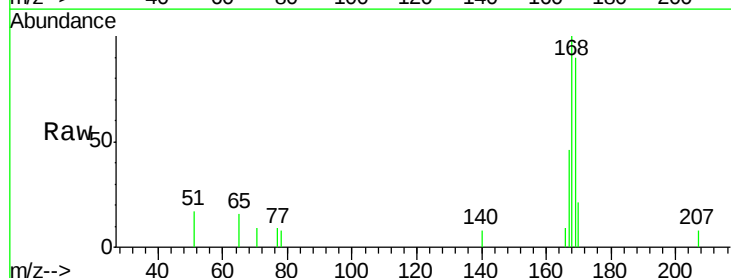
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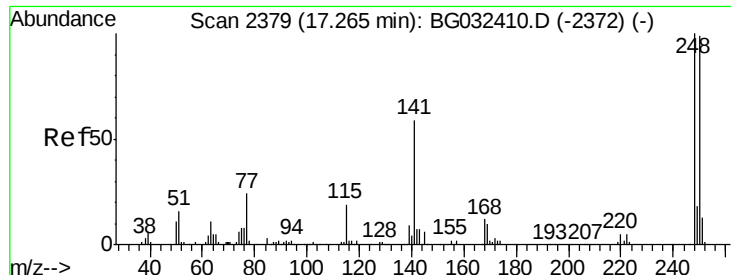
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2/7/2018 4:14:29 PM



#65  
n-Nitrosodiphenylamine  
Concen: 0.973 ng  
RT: 16.57 min Scan# 2261  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 169     | 100   |            |       |
| 168     | 110.8 | 55.7       | 83.5# |
| 167     | 51.2  | 30.1       | 45.1# |





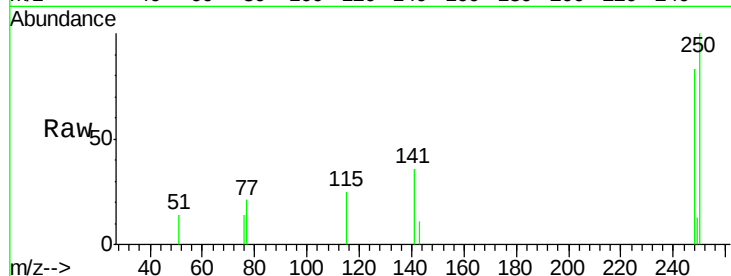
#66  
4-Bromophenyl-phenylether  
Concen: 0.995 ng  
RT: 17.25 min Scan# 2377  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

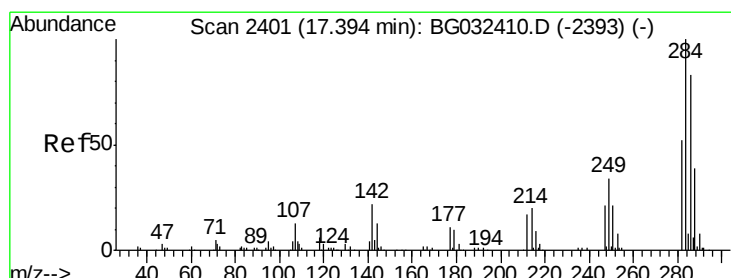
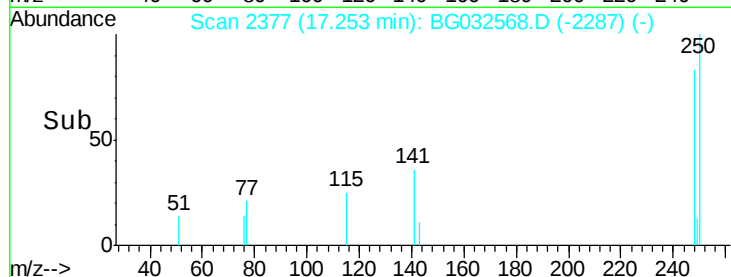
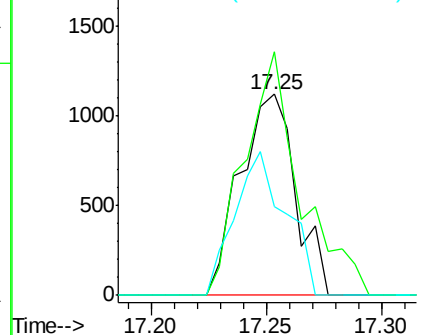
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 121.1 | 77.1  | 115.7# |
| 141     | 44.2  | 50.8  | 76.2#  |

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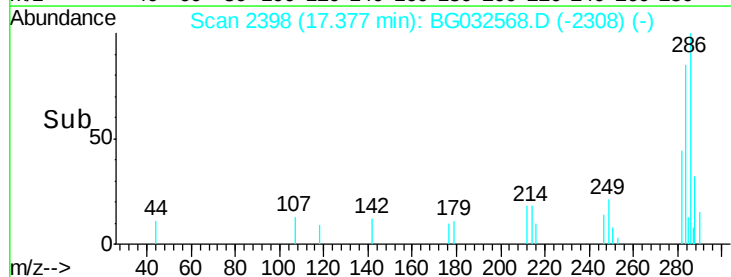
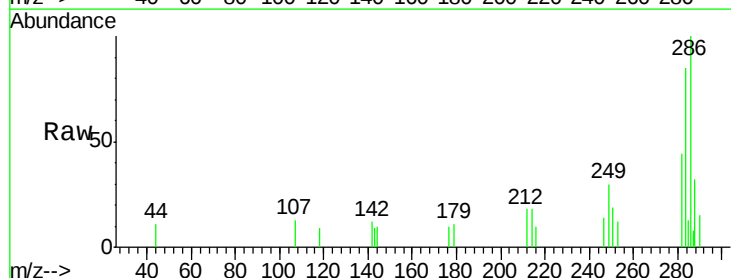
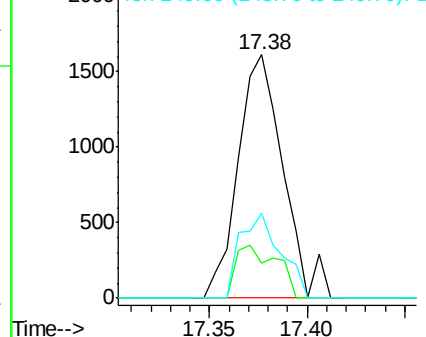
Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

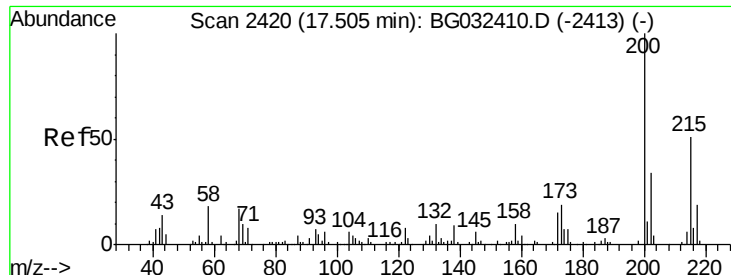


#67  
Hexachlorobenzene  
Concen: 1.234 ng  
RT: 17.38 min Scan# 2398  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 14.5  | 26.8  | 40.2# |
| 249     | 34.9  | 26.3  | 39.5  |

Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E





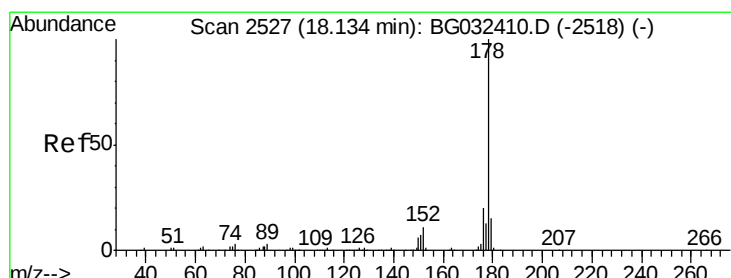
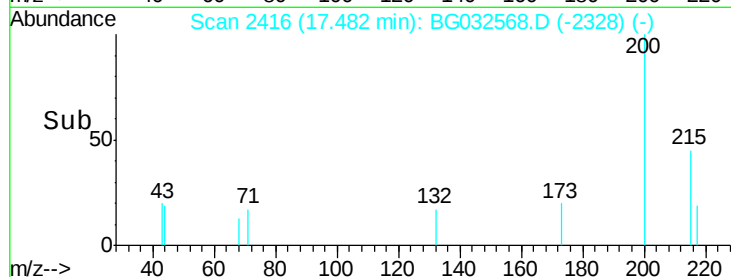
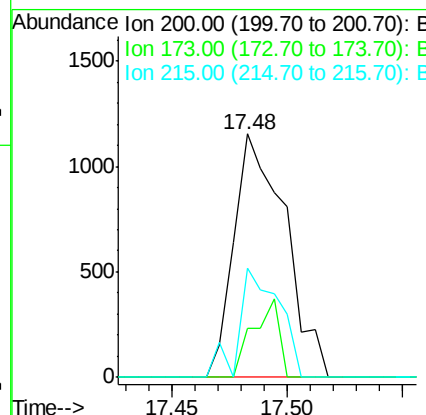
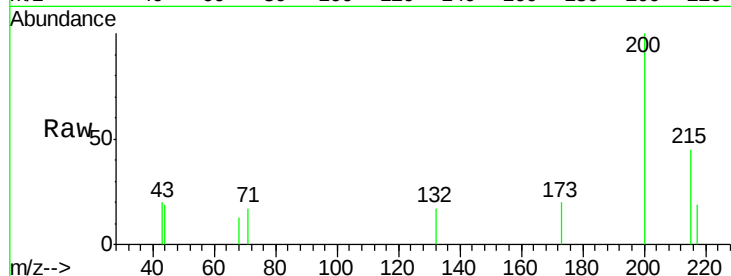
#68  
Atrazine  
Concen: 1.097 ng  
RT: 17.48 min Scan# 2416  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 19.9  | 5.2   | 45.2  |
| 215     | 44.6  | 30.4  | 70.4  |

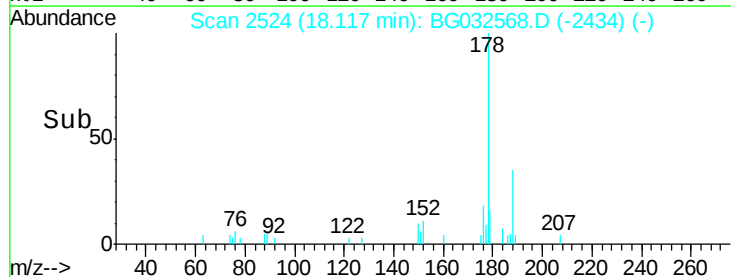
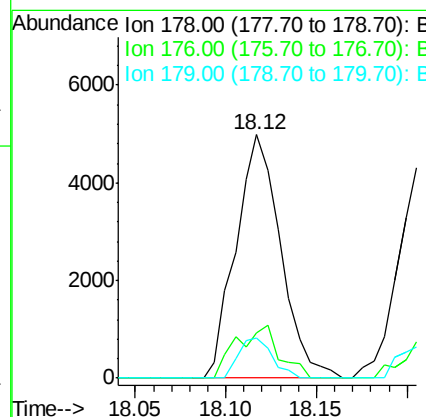
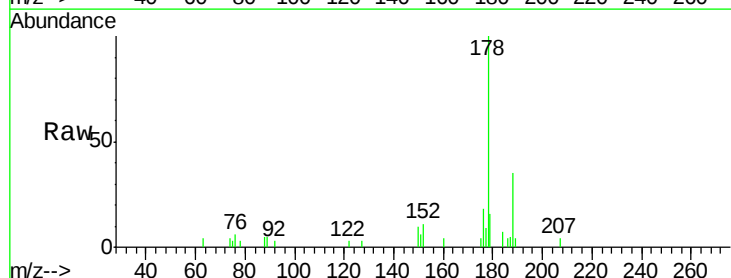
Manual Integrations  
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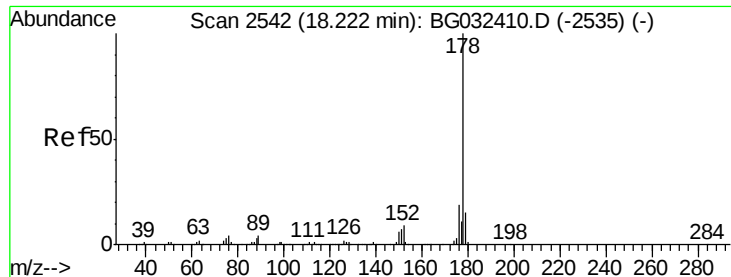
Sohil  
2/7/2018 4:14:29 PM



#70  
Phenanthrene  
Concen: 1.203 ng  
RT: 18.12 min Scan# 2524  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.4  | 15.7  | 23.5  |
| 179     | 16.3  | 12.5  | 18.7  |





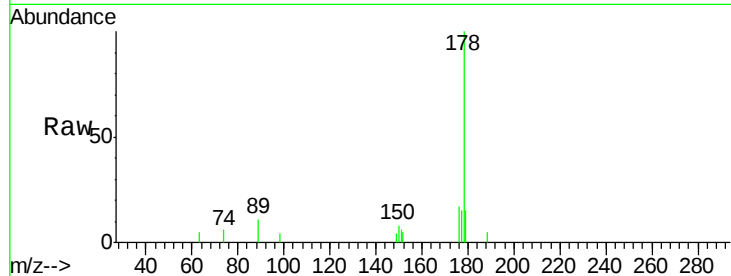
#71  
 Anthracene  
 Concen: 1.203 ng  
 RT: 18.21 min Scan# 2539  
 Delta R.T. -0.01 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 17.1  | 16.0  | 24.0  |
| 179     | 14.6  | 12.5  | 18.7  |

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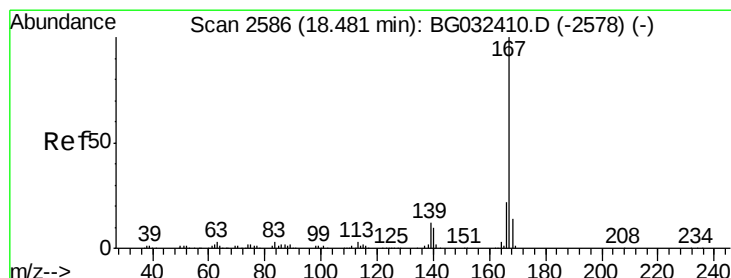
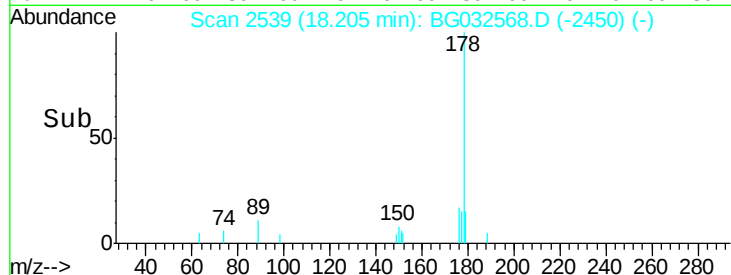
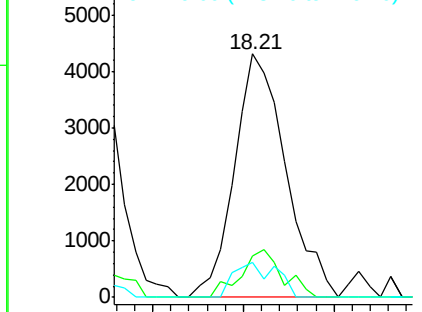


Abundance

Ion 178.00 (177.70 to 178.70): E

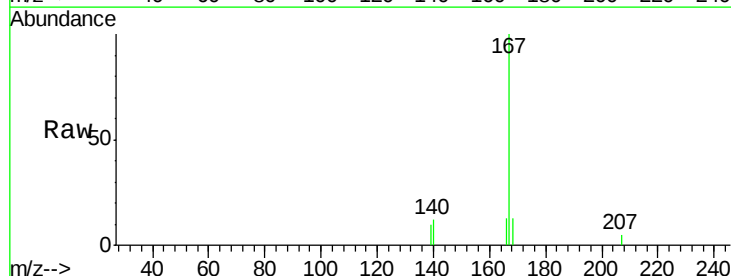
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72  
 Carbazole  
 Concen: 1.161 ng  
 RT: 18.48 min Scan# 2585  
 Delta R.T. 0.01 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 13.0  | 18.2  | 27.4# |
| 139     | 10.0  | 9.4   | 14.2  |

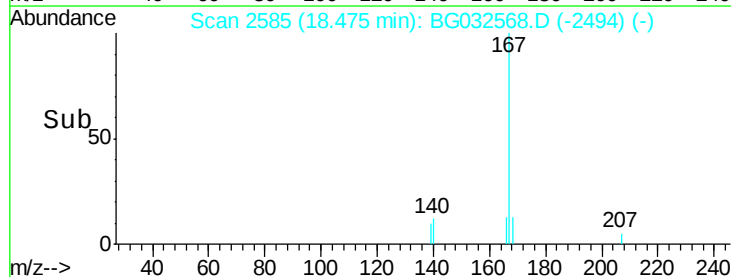
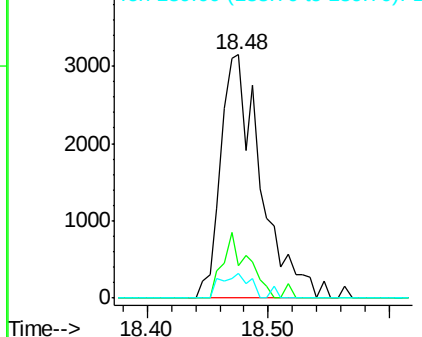


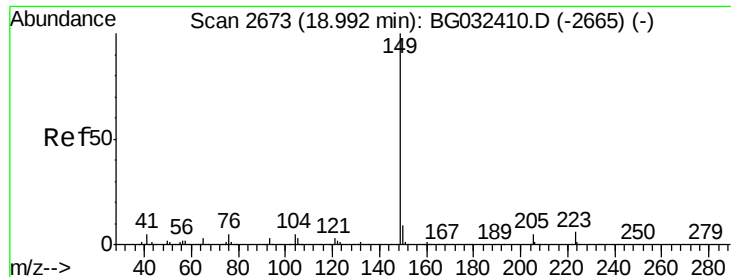
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





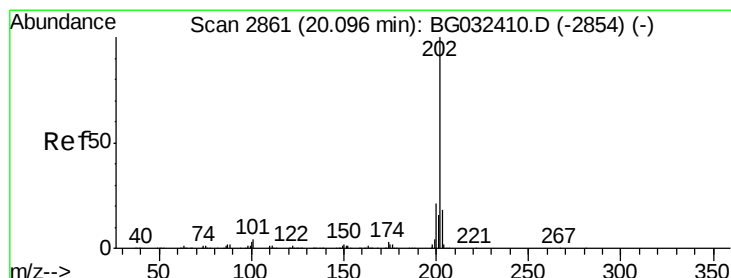
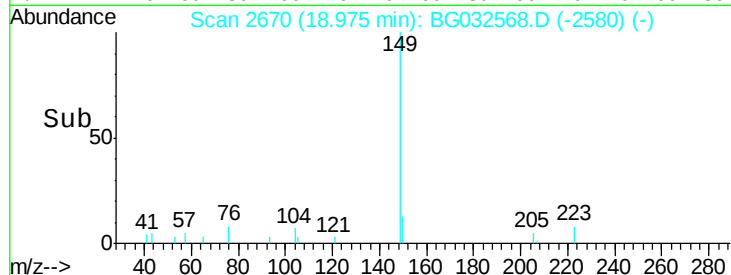
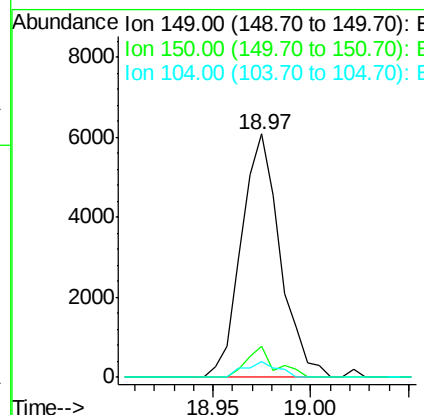
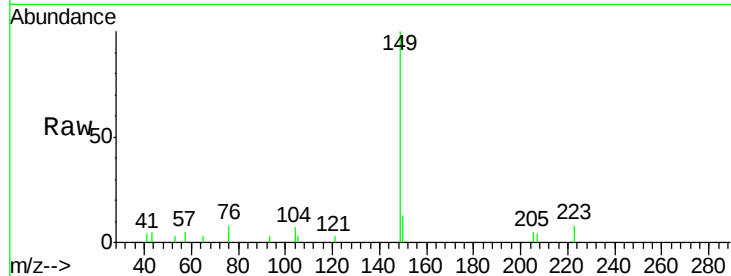
#73  
Di-n-butylphthalate  
Concen: 1.211 ng  
RT: 18.97 min Scan# 2670  
Delta R.T. 0.00 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 150     | 13.0  | 7.8   | 11.6# |
| 104     | 6.6   | 3.9   | 5.9#  |

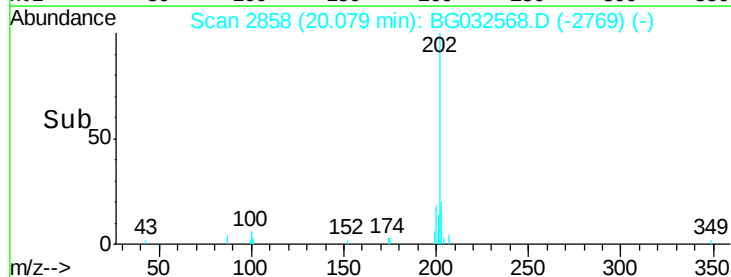
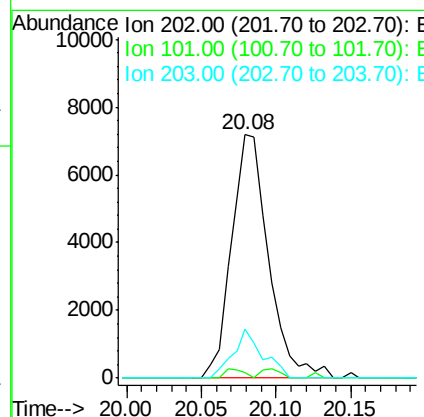
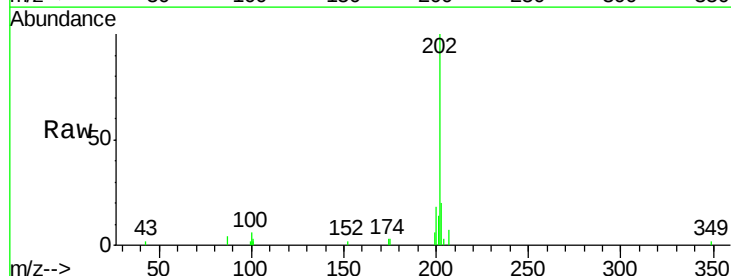
Manual Integrations  
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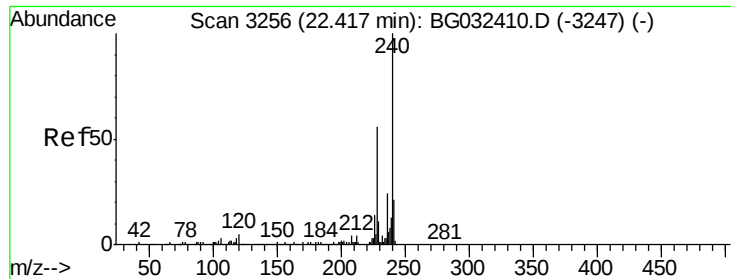
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2/7/2018 4:14:29 PM



#74  
Fluoranthene  
Concen: 1.336 ng  
RT: 20.08 min Scan# 2858  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 2.4   | 0.0   | 28.9  |
| 203     | 20.3  | 0.0   | 37.5  |





#75

Chrysene-d12

Concen: 20.000 ng

RT: 22.40 min Scan# 3253

Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

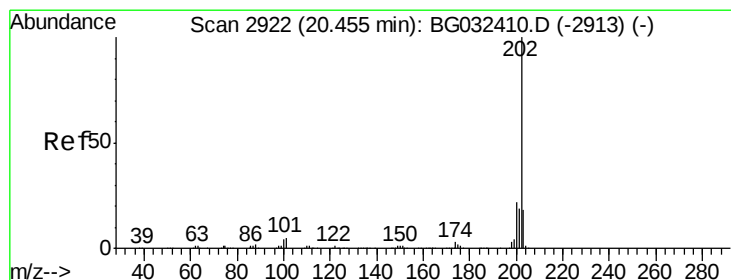
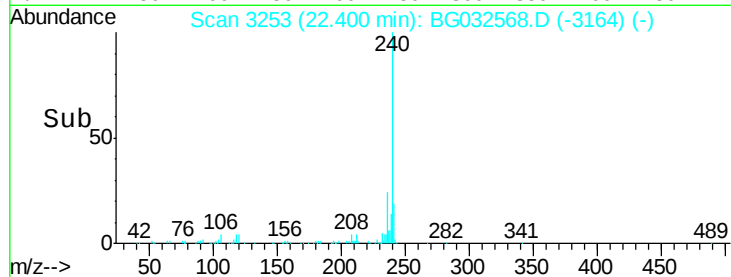
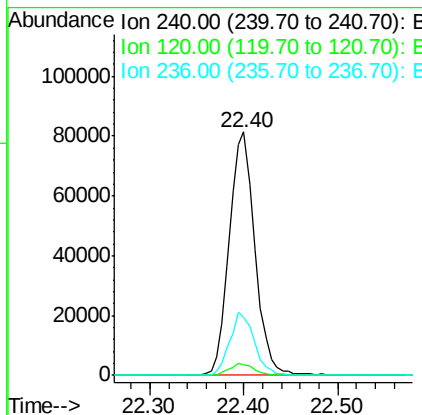
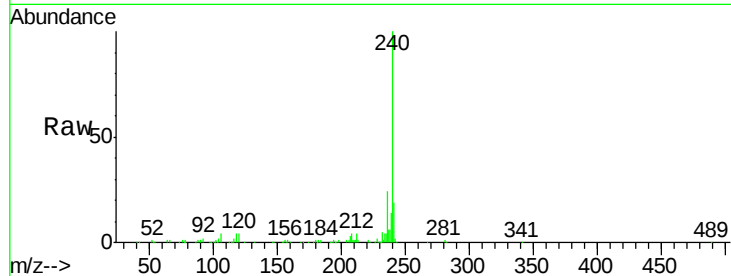
ClientSampleId :

MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 4.3   | 6.8   | 10.2# |
| 236     | 23.7  | 20.9  | 31.3  |

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#77

Pyrene

Concen: 1.384 ng m

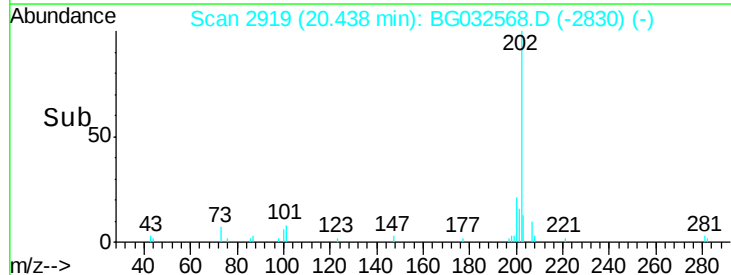
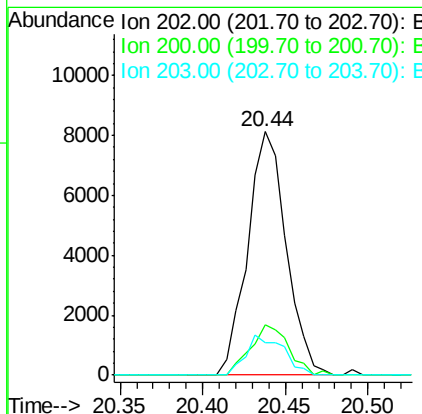
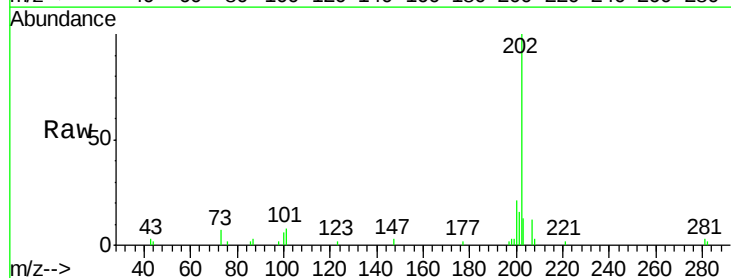
RT: 20.44 min Scan# 2919

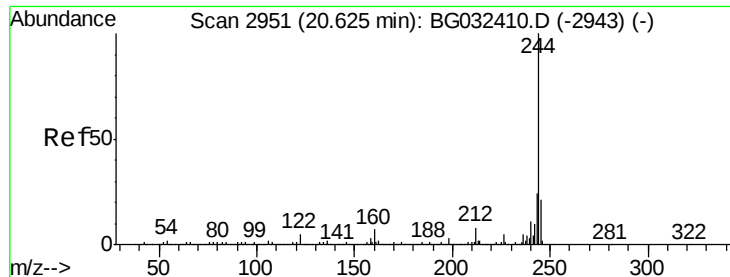
Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.9  | 25.3  |
| 203     | 13.1  | 13.9  | 20.9# |





#78

Terphenyl-d14

Concen: 91.710 ng

RT: 20.61 min Scan# 2948

Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

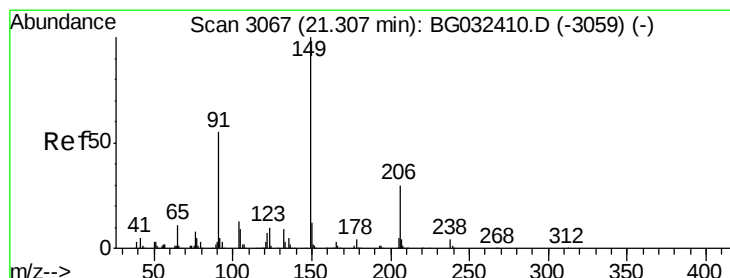
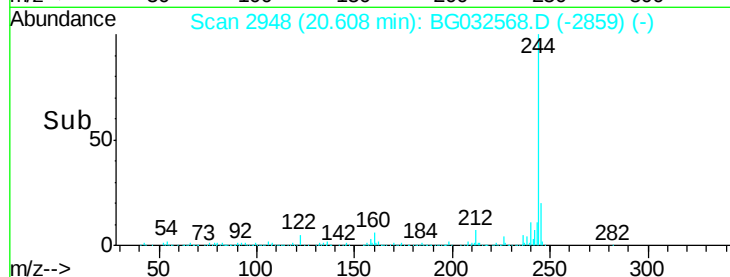
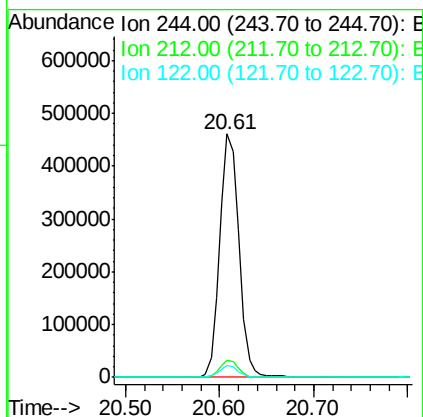
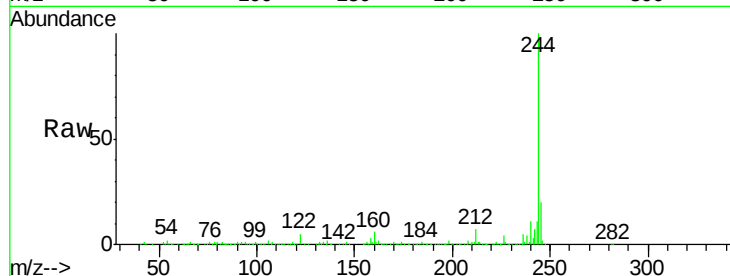
ClientSampleId :

MDL-SOIL-03-QT1-2018

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 244   | Resp: | 661180 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 7.1   | 5.8   | 8.8    |
| 122       | 4.8   | 7.0   | 10.4#  |

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#79

Butylbenzylphthalate

Concen: 1.287 ng

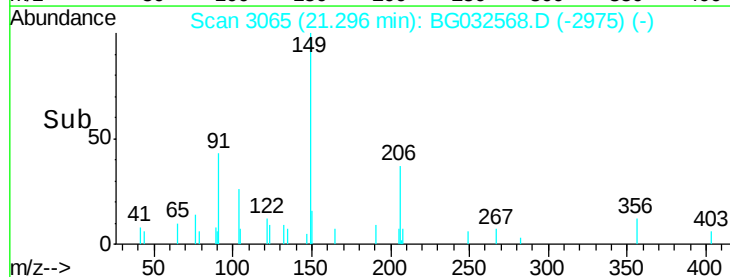
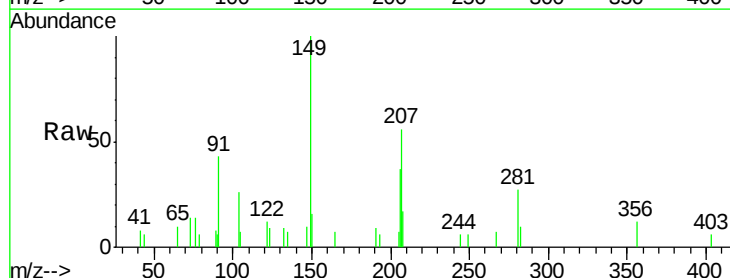
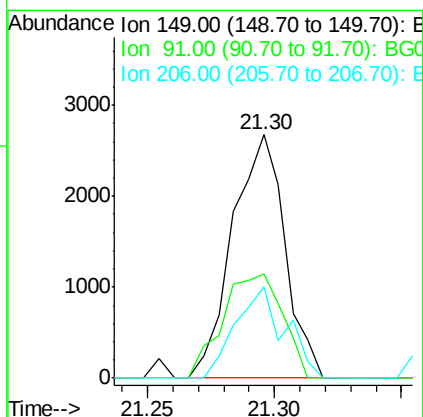
RT: 21.30 min Scan# 3065

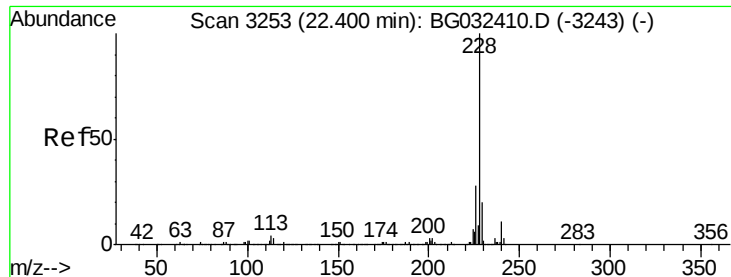
Delta R.T. 0.00 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 3846  |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 91        | 42.7  | 62.2  | 93.2# |
| 206       | 37.4  | 18.6  | 27.8# |





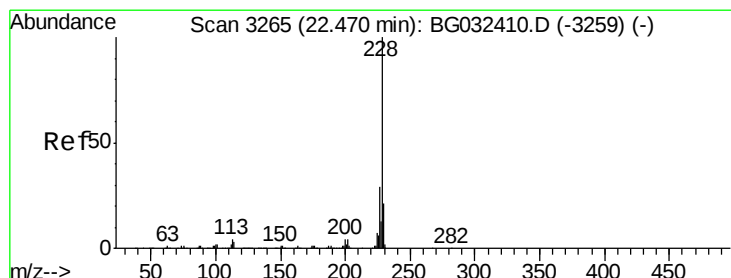
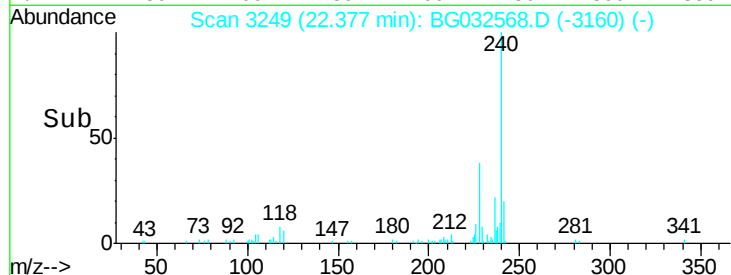
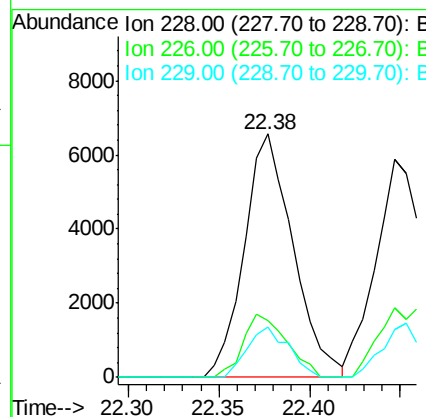
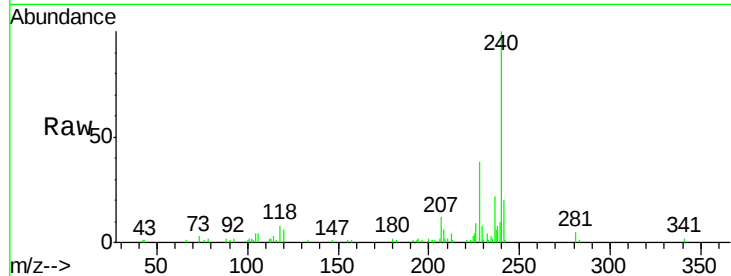
#80  
Benzo(a)anthracene  
Concen: 1.284 ng  
RT: 22.38 min Scan# 3249  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 23.3  | 22.7  | 34.1  |
| 229     | 20.9  | 16.2  | 24.2  |

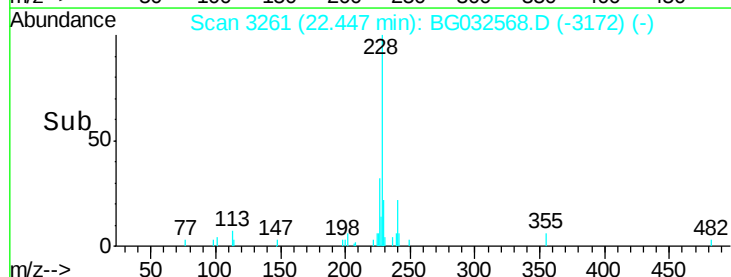
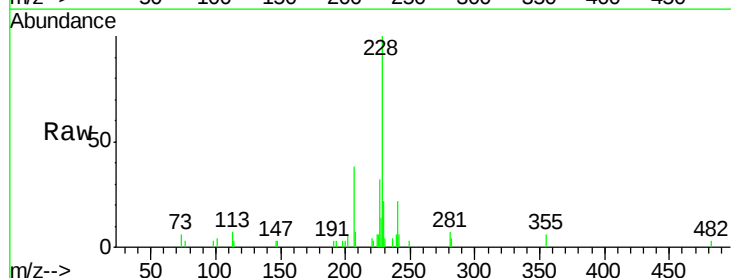
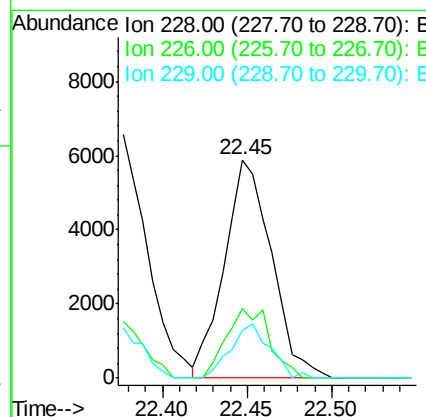
Manual Integrations  
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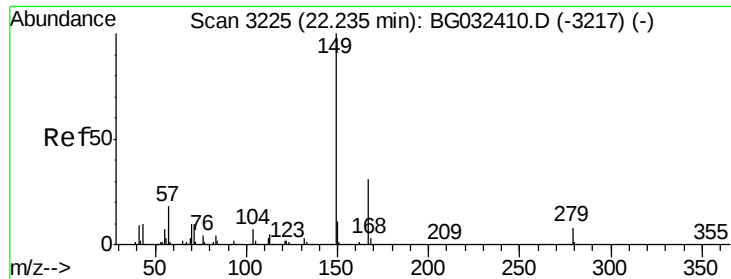
Sohil  
2/7/2018 4:14:29 PM



#82  
Chrysene  
Concen: 1.236 ng  
RT: 22.45 min Scan# 3261  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.7  | 24.9  | 37.3  |
| 229     | 21.8  | 15.0  | 22.4  |





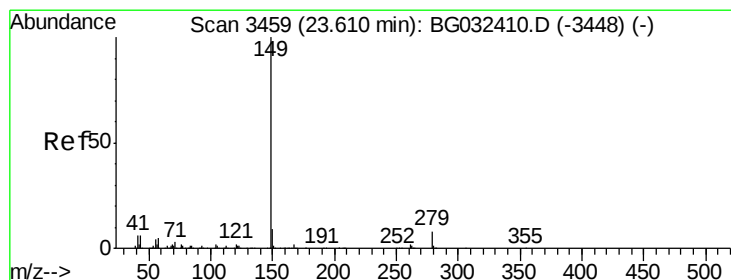
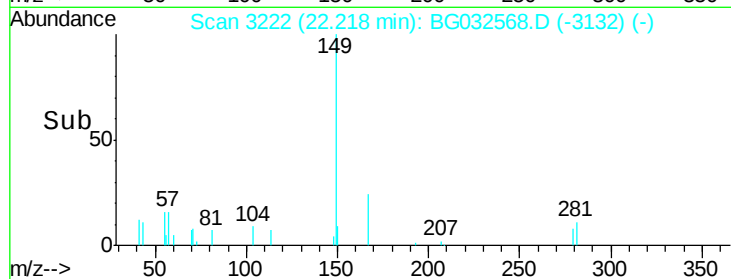
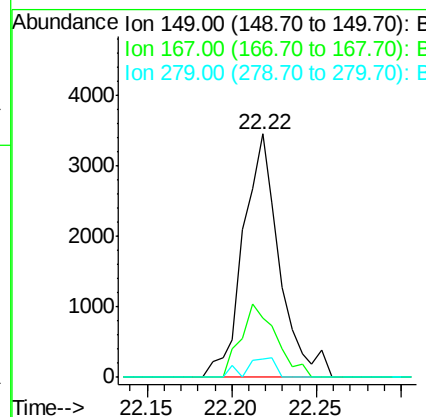
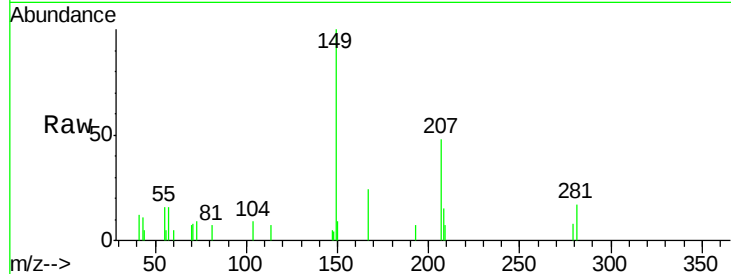
#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 1.215 ng  
 RT: 22.22 min Scan# 3222  
 Delta R.T. 0.00 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 24.1  | 24.3  | 36.5# |
| 279     | 7.6   | 4.0   | 6.0#  |

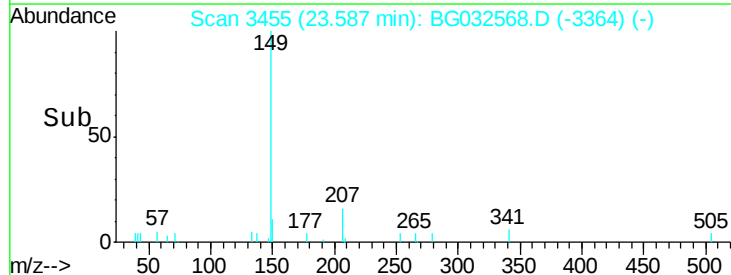
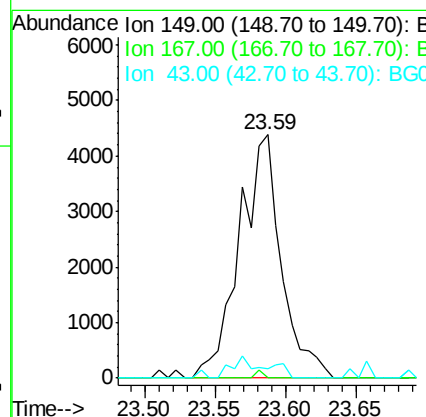
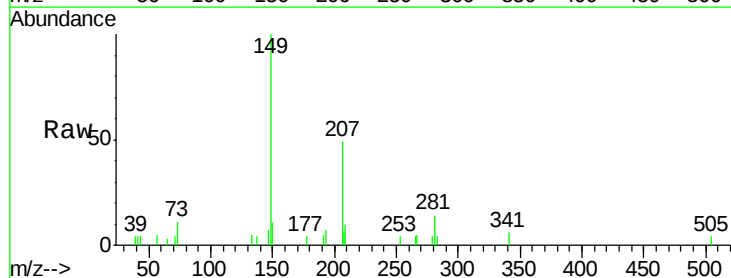
Manual Integrations  
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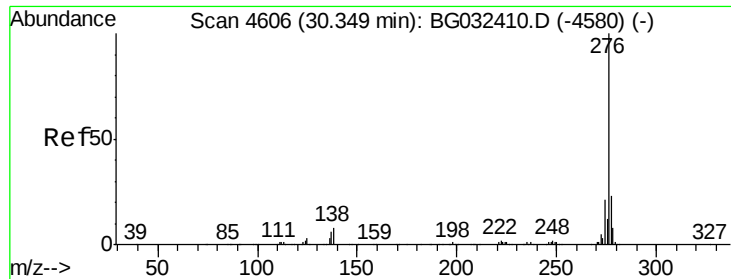
Sohil  
 2/7/2018 4:14:29 PM



#84  
 Di-n-octyl phthalate  
 Concen: 1.347 ng  
 RT: 23.59 min Scan# 3455  
 Delta R.T. 0.01 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 0.6   | 1.4   | 2.0#  |
| 43      | 2.0   | 8.9   | 13.3# |





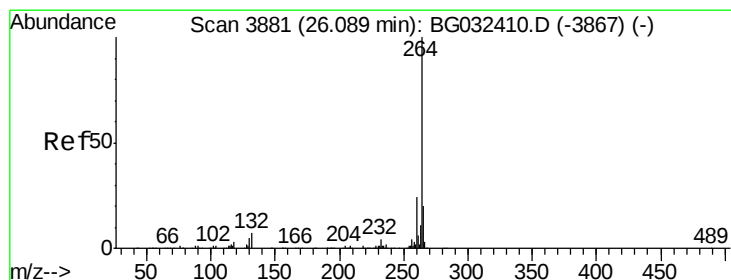
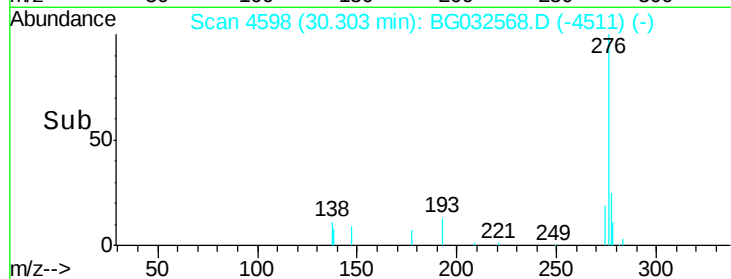
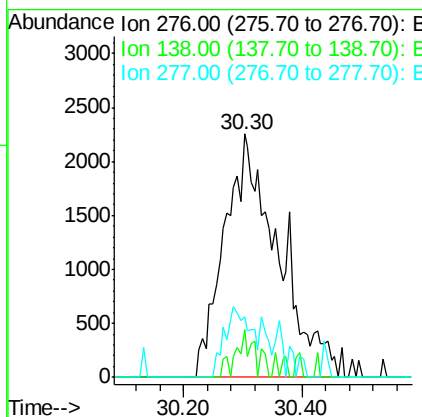
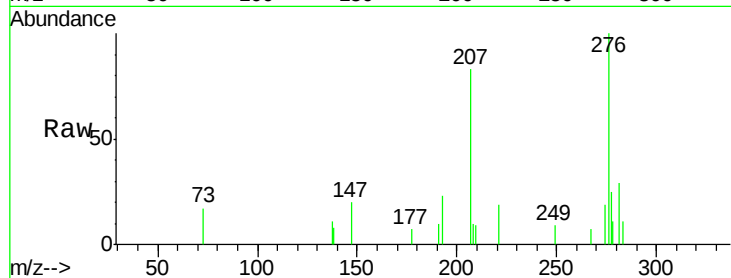
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 1.208 ng  
RT: 30.30 min Scan# 4598  
Delta R.T. -0.02 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 4.9   | 16.0  | 24.0# |
| 277     | 0.0   | 20.0  | 30.0# |

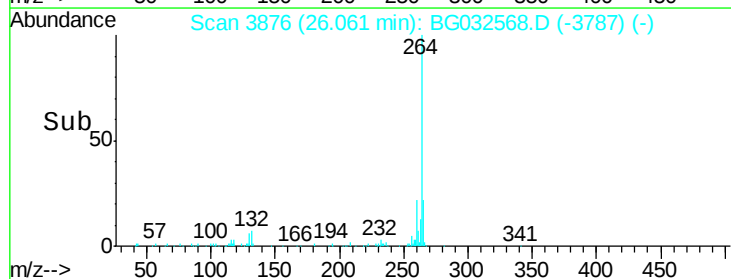
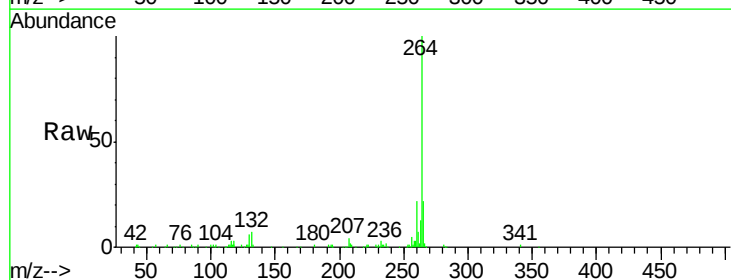
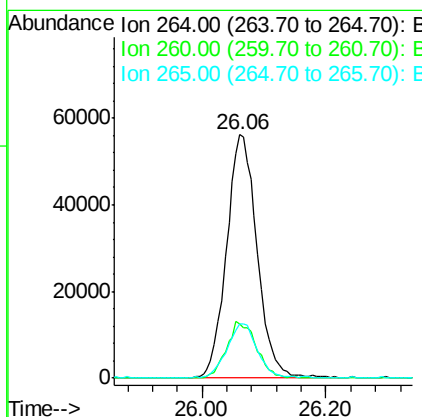
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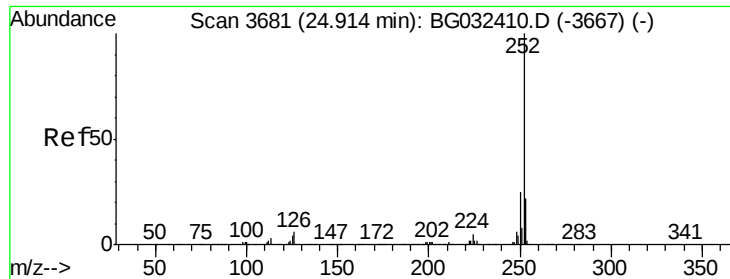
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2/7/2018 4:14:29 PM



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 26.06 min Scan# 3876  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.1  | 17.4  | 26.0  |
| 265     | 22.1  | 17.7  | 26.5  |





#87

Benzo(b)fluoranthene

Concen: 1.107 ng

RT: 24.89 min Scan# 3676

Delta R.T. -0.01 min

Lab File: BG032568.D

Acq: 6 Feb 2018 16:32

Instrument :

BNA\_G

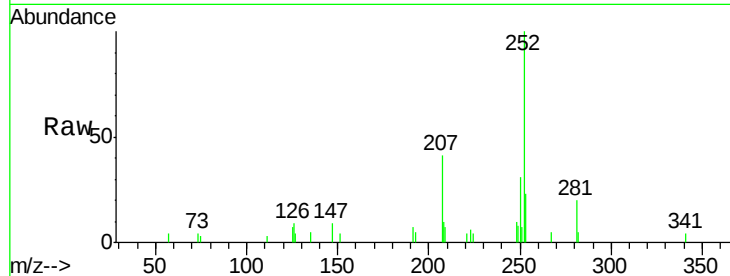
ClientSampleId :

MDL-SOIL-03-QT1-2018

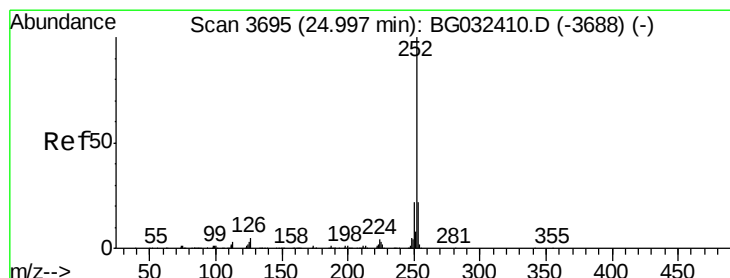
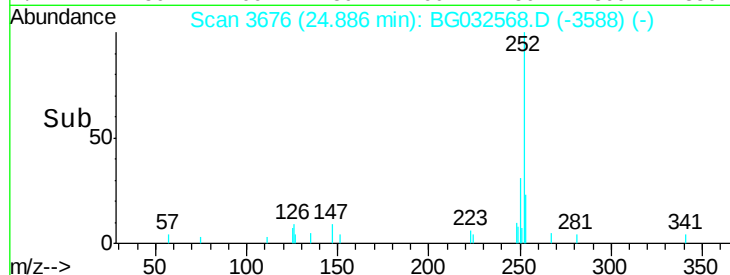
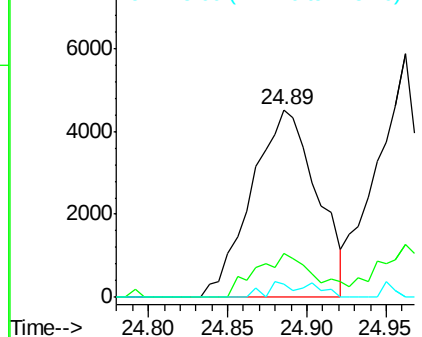
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 12880 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 18.2  | 27.4  |
| 125       | 7.1   | 7.2   | 10.8# |

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2/7/2018 4:14:29 PM



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 1.258 ng m

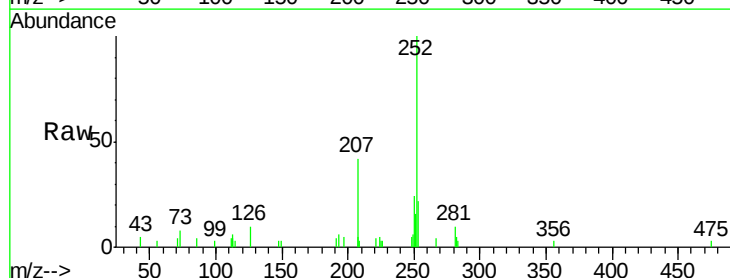
RT: 24.96 min Scan# 3689

Delta R.T. -0.01 min

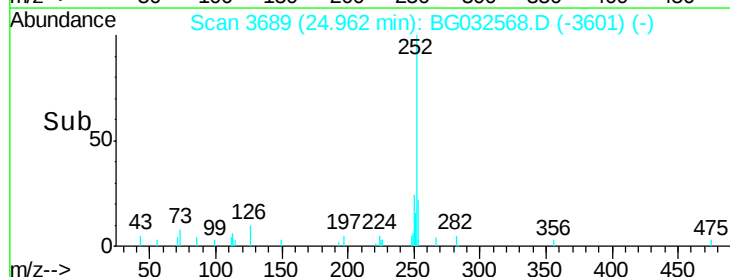
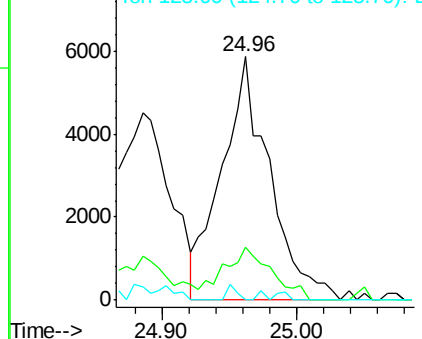
Lab File: BG032568.D

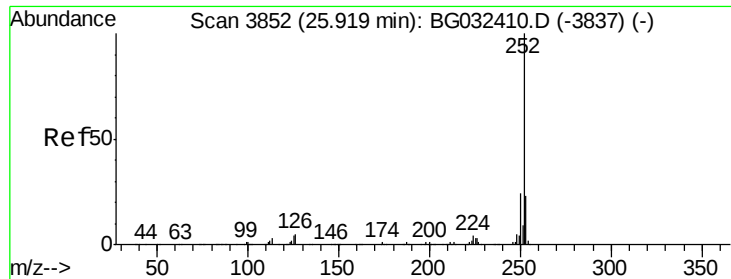
Acq: 6 Feb 2018 16:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 14501 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 21.8  | 17.4  | 26.2  |
| 125       | 0.0   | 6.6   | 9.8#  |



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





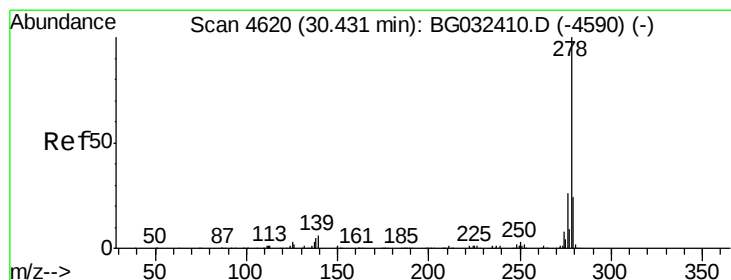
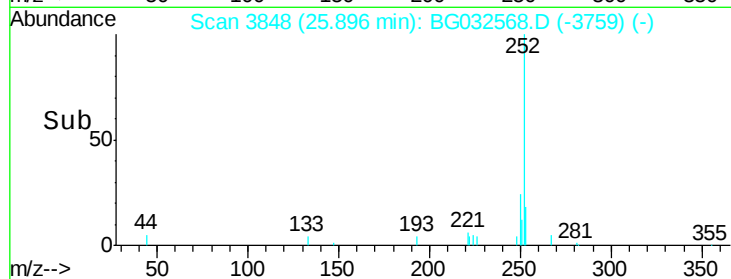
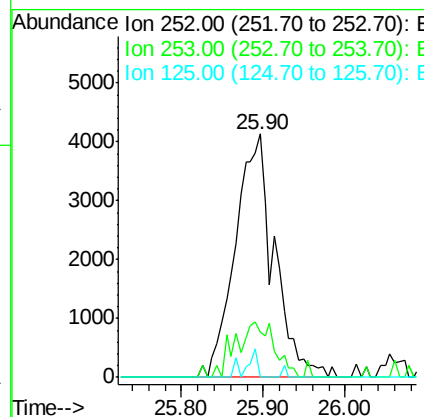
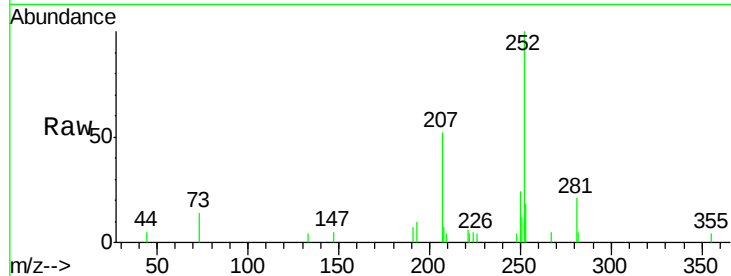
#89  
Benzo(a)pyrene  
Concen: 1.226 ng  
RT: 25.90 min Scan# 3848  
Delta R.T. -0.01 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

Instrument :  
BNA\_G  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 18.5  | 18.3  | 27.5  |
| 125     | 0.0   | 7.3   | 10.9# |

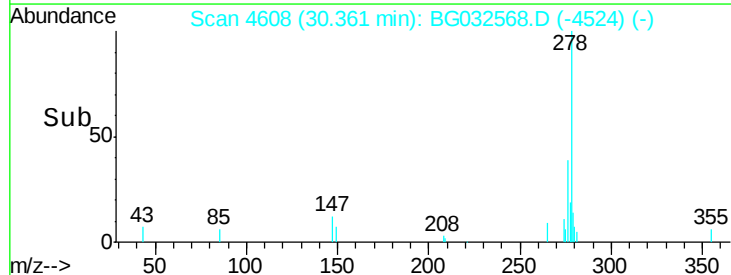
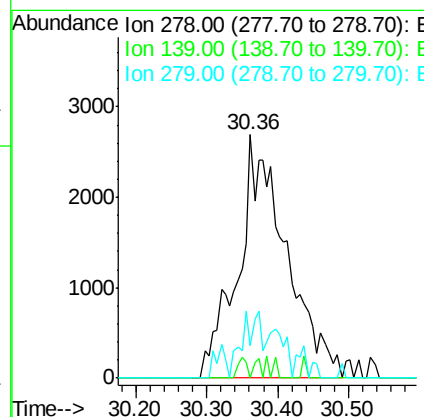
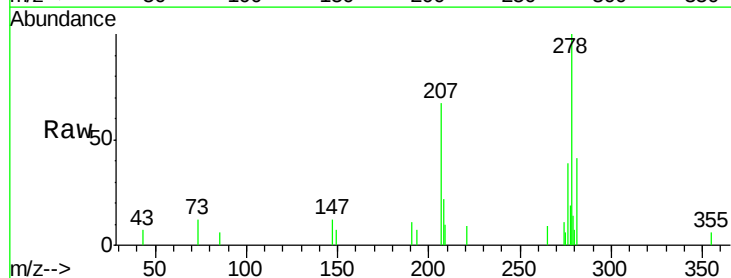
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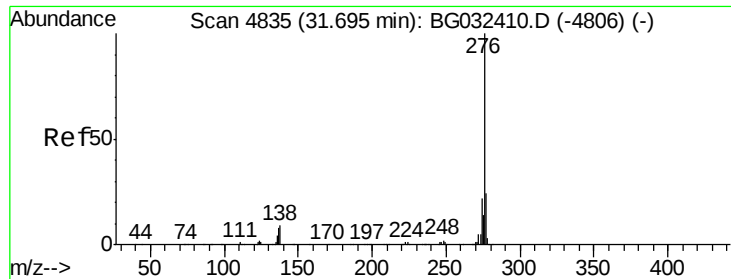
Sohil  
2/7/2018 4:14:29 PM



#90  
Dibenzo(a,h)anthracene  
Concen: 1.119 ng m  
RT: 30.36 min Scan# 4608  
Delta R.T. -0.04 min  
Lab File: BG032568.D  
Acq: 6 Feb 2018 16:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 9.8   | 14.6# |
| 279     | 13.6  | 18.4  | 27.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 1.131 ng  
 RT: 31.64 min Scan# 4825  
 Delta R.T. -0.02 min  
 Lab File: BG032568.D  
 Acq: 6 Feb 2018 16:32

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 12.9  | 18.3  | 27.5# |
| 138     | 0.0   | 13.9  | 20.9# |

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