

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG092519\  
 Data File : BG042930.D  
 Acq On : 25 Sep 2019 16:33  
 Operator : JU  
 Sample : K4839-03  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 25 17:18:15 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 25 15:35:52 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.07  | 152  | 54962    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 10.88 | 136  | 201600   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 14.69 | 164  | 141968   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 17.44 | 188  | 341844   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 21.71 | 240  | 387492   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 24.95 | 264  | 431821   | 20.00 | ng    | -0.01    |

## System Monitoring Compounds

|                          |       |     |         |        |    |      |
|--------------------------|-------|-----|---------|--------|----|------|
| 5) 2-Fluorophenol        | 5.66  | 112 | 480510  | 156.02 | ng | 0.00 |
| 7) Phenol-d6             | 7.24  | 99  | 705789  | 159.14 | ng | 0.00 |
| 23) Nitrobenzene-d5      | 9.24  | 82  | 440539  | 106.21 | ng | 0.00 |
| 42) 2,4,6-Tribromophenol | 16.18 | 330 | 337652  | 138.31 | ng | 0.00 |
| 45) 2-Fluorobiphenyl     | 13.32 | 172 | 1110555 | 113.40 | ng | 0.00 |
| 79) Terphenyl-d14        | 20.05 | 244 | 2156210 | 118.57 | ng | 0.00 |

## Target Compounds

|                                |       |     |         |         |    | Qvalue |
|--------------------------------|-------|-----|---------|---------|----|--------|
| 4) n-Nitrosodimethylamine      | 3.87  | 42  | 211326  | 121.681 | ng | # 93   |
| 12) 1,3-Dichlorobenzene        | 7.97  | 146 | 396857  | 96.860  | ng | 100    |
| 13) 1,4-Dichlorobenzene        | 8.11  | 146 | 475469  | 116.411 | ng | 98     |
| 14) 1,2-Dichlorobenzene        | 8.43  | 146 | 251319  | 64.630  | ng | 97     |
| 15) Benzyl Alcohol             | 8.40  | 79  | 8269    | 2.480   | ng | # 53   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.61  | 45  | 305060  | 50.455  | ng | 98     |
| 18) Hexachloroethane           | 9.16  | 117 | 243783  | 158.481 | ng | 96     |
| 19) n-Nitroso-di-n-propylamine | 8.88  | 70  | 273038  | 93.758  | ng | 95     |
| 24) Nitrobenzene               | 9.28  | 77  | 480078  | 121.346 | ng | 99     |
| 25) Isophorone                 | 9.80  | 82  | 154275  | 21.175  | ng | 97     |
| 28) bis(2-Chloroethoxy)methane | 10.28 | 93  | 162646  | 39.347  | ng | 99     |
| 30) 1,2,4-Trichlorobenzene     | 10.74 | 180 | 290120  | 69.841  | ng | 96     |
| 32) Benzoic acid               | 9.79  | 122 | 53      | 2.827   | ng | # 1    |
| 34) Hexachlorobutadiene        | 11.22 | 225 | 454864  | 146.242 | ng | 98     |
| 37) 2-Methylnaphthalene        | 12.53 | 142 | 734421  | 97.007  | ng | 97     |
| 38) 1-Methylnaphthalene        | 12.53 | 142 | 734421  | 102.520 | ng | 97     |
| 41) Hexachlorocyclopentadiene  | 12.88 | 237 | 419136  | 123.237 | ng | 97     |
| 47) 2-Chloronaphthalene        | 13.57 | 162 | 407391  | 50.471  | ng | 99     |
| 48) 2-Nitroaniline             | 14.15 | 65  | 17539   | 6.534   | ng | # 1    |
| 49) Acenaphthylene             | 14.42 | 152 | 1827383 | 147.952 | ng | 97     |
| 50) Dimethylphthalate          | 14.15 | 163 | 1532936 | 144.111 | ng | 99     |
| 51) 2,6-Dinitrotoluene         | 14.27 | 165 | 119746  | 52.862  | ng | 98     |
| 52) Acenaphthene               | 14.76 | 154 | 1388835 | 167.993 | ng | 96     |
| 55) Dibenzofuran               | 15.09 | 168 | 1319824 | 107.921 | ng | 97     |
| 56) 4-Nitrophenol              | 15.09 | 139 | 537856  | 301.538 | ng | # 1    |
| 57) 2,4-Dinitrotoluene         | 15.05 | 165 | 343761  | 103.628 | ng | 98     |
| 60) Diethylphthalate           | 15.51 | 149 | 1580148 | 145.966 | ng | 94     |
| 61) 4-Chlorophenyl-phenylether | 15.73 | 204 | 625292  | 99.857  | ng | 99     |
| 63) Azobenzene                 | 15.95 | 77  | 46735   | 4.742   | ng | # 1    |
| 66) n-Nitrosodiphenylamine     | 15.95 | 169 | 407631  | 45.171  | ng | 99     |
| 68) Hexachlorobenzene          | 16.75 | 284 | 445638  | 93.285  | ng | 96     |
| 75) Fluoranthene               | 19.49 | 202 | 1770855 | 80.223  | ng | 98     |
| 77) Benzidine                  | 20.05 | 184 | 35989   | 3.709   | ng | # 92   |
| 78) Pyrene                     | 19.85 | 202 | 1900110 | 82.157  | ng | 96     |

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 Acq On : 25 Sep 2019 16:33  
 Operator : JU  
 Sample : K4839-03  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

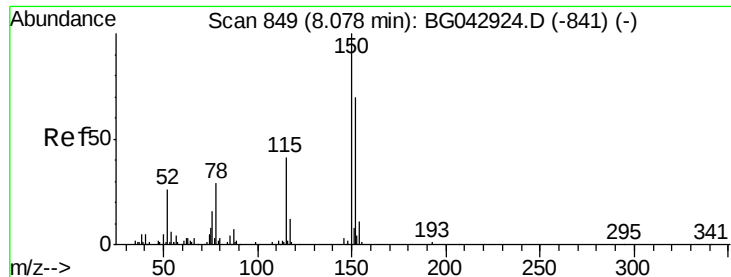
Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Sep 25 17:18:15 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA G\METHODS\8270-BG092519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 25 15:35:52 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units | Dev(Min) |
|--------------------------------|-------|------|----------|---------|-------|----------|
| 80) Butylbenzylphthalate       | 20.74 | 149  | 1229185  | 140.017 | nq    | 99       |
| 81) Benzo(a)anthracene         | 21.76 | 228  | 858078   | 35.540  | nq    | 97       |
| 83) Chrysene                   | 21.76 | 228  | 858078   | 36.623  | nq    | 98       |
| 84) Bis(2-ethylhexyl)phthalate | 21.60 | 149  | 754238   | 60.379  | nq    | 97       |
| 85) Di-n-octyl phthalate       | 22.83 | 149  | 2594293  | 127.006 | nq    | 98       |
| 86) Indeno(1,2,3-cd)pyrene     | 28.63 | 276  | 1327457  | 45.510  | nq #  | 96       |
| 88) Benzo(b)fluoranthene       | 24.00 | 252  | 2589826  | 105.995 | nq    | 95       |
| 89) Benzo(k)fluoranthene       | 24.00 | 252  | 2589826  | 107.144 | nq #  | 96       |
| 92) Benzo(g,h,i)perylene       | 29.79 | 276  | 1783789  | 77.883  | nq    | 97       |

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



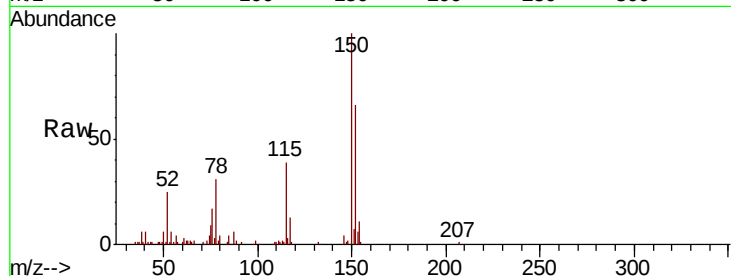


#1

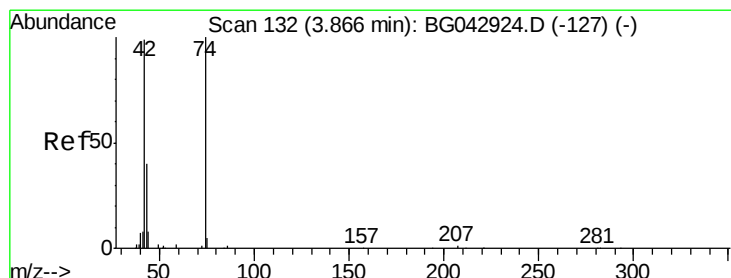
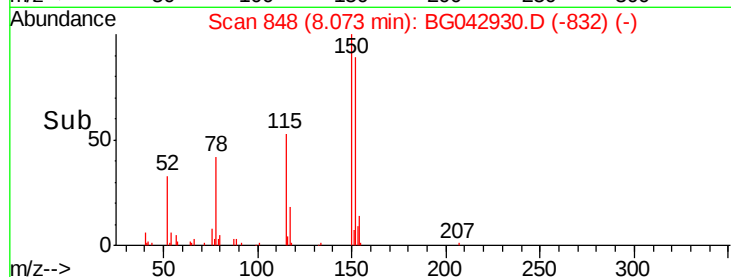
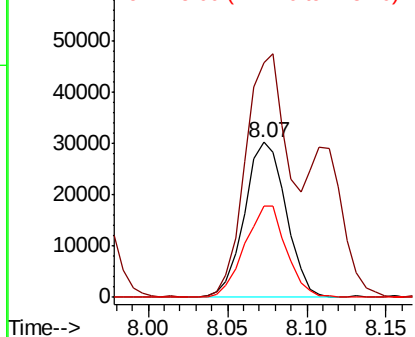
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.07 min Scan# 848  
Delta R.T. -0.01 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:152 Resp: 54962  
Ion Ratio Lower Upper  
152 100  
150 151.8 115.0 172.4  
115 59.4 47.0 70.6



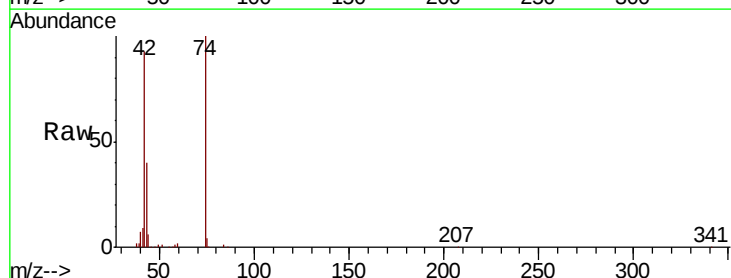
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



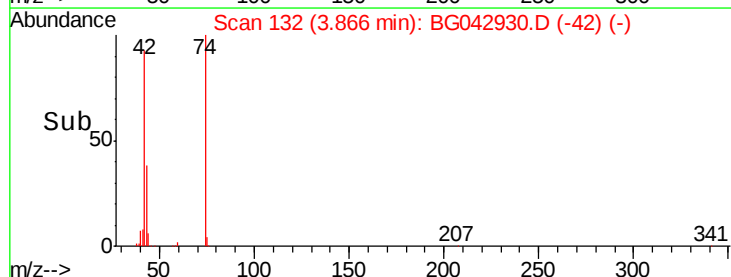
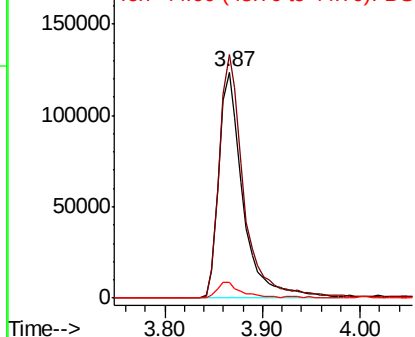
#4

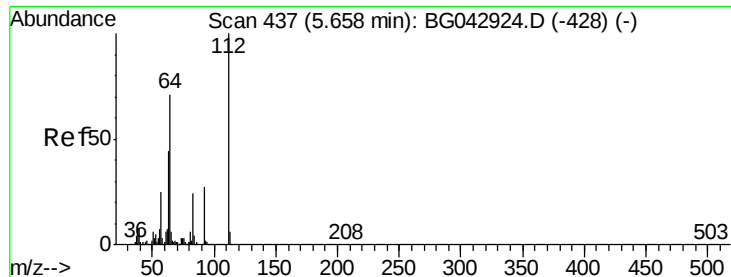
n-Nitrosodimethylamine  
Concen: 121.681 ng  
RT: 3.87 min Scan# 132  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Tgt Ion: 42 Resp: 211326  
Ion Ratio Lower Upper  
42 100  
74 107.7 80.5 120.7  
44 6.8 6.9 10.3#



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





#5

2-Fluorophenol

Concen: 156.022 ng

RT: 5.66 min Scan# 437

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

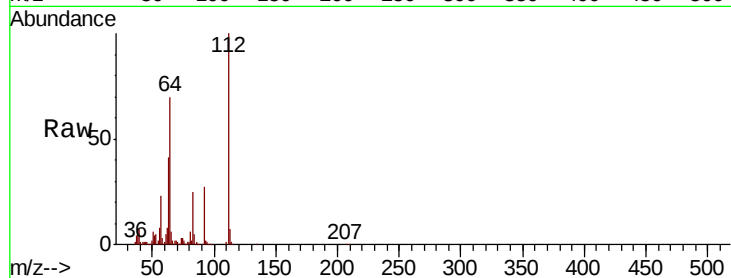
Tot Ion:112 Resp: 480510

Ion Ratio Lower Upper

112 100

64 69.9 56.6 84.8

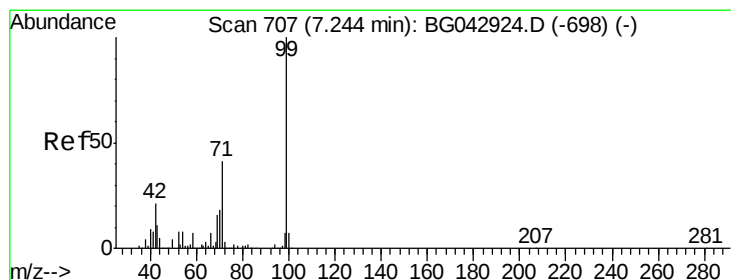
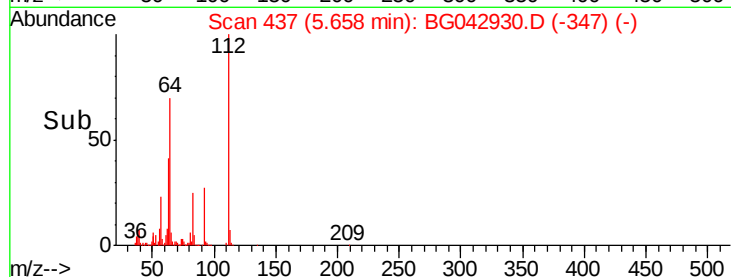
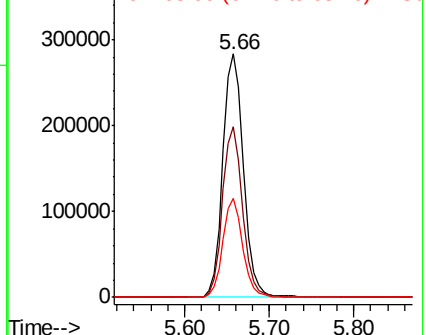
63 40.7 35.1 52.7



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



#7

Phenol-d6

Concen: 159.140 ng

RT: 7.24 min Scan# 707

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

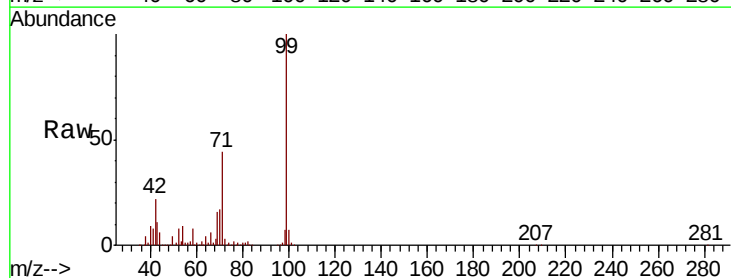
Tgt Ion: 99 Resp: 705789

Ion Ratio Lower Upper

99 100

42 22.3 17.2 25.8

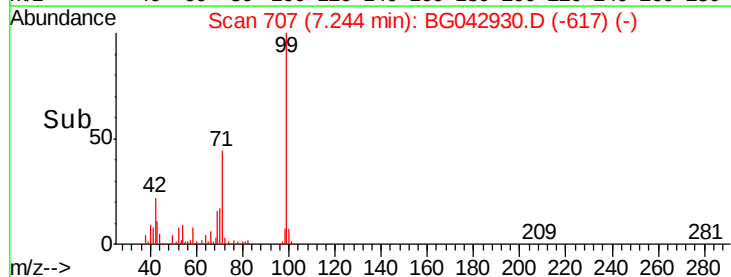
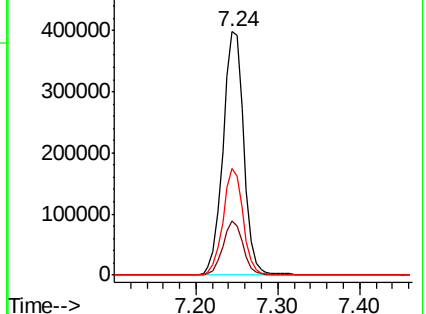
71 43.6 33.1 49.7

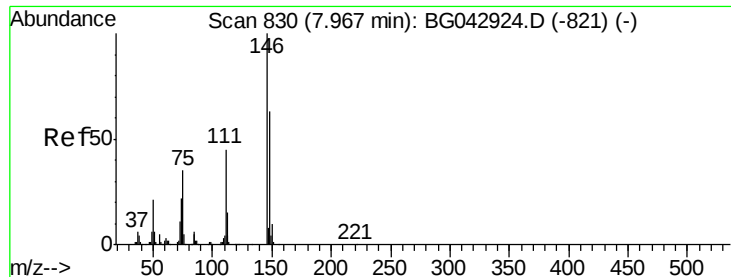


Abundance Ion 99.00 (98.70 to 99.70): BGC

Ion 42.00 (41.70 to 42.70): BGC

Ion 71.00 (70.70 to 71.70): BGC





#12

1,3-Dichlorobenzene

Concen: 96.860 ng

RT: 7.97 min Scan# 830

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

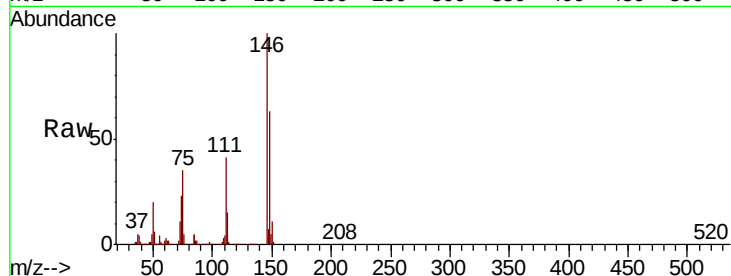
Tot Ion:146 Resp: 396857

Ion Ratio Lower Upper

146 100

148 63.2 50.7 76.1

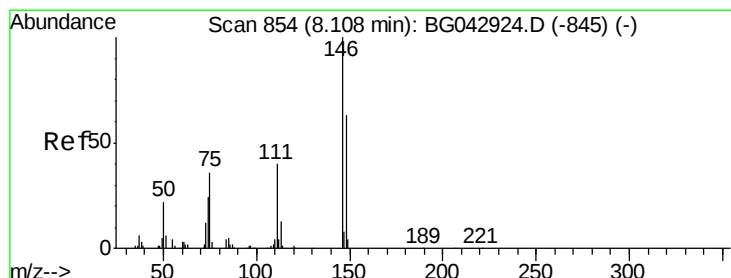
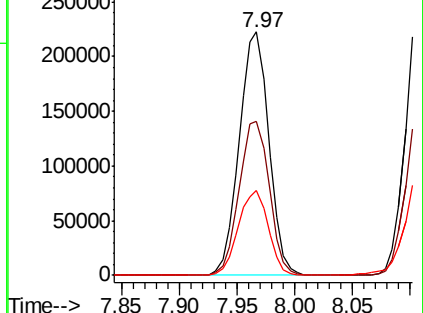
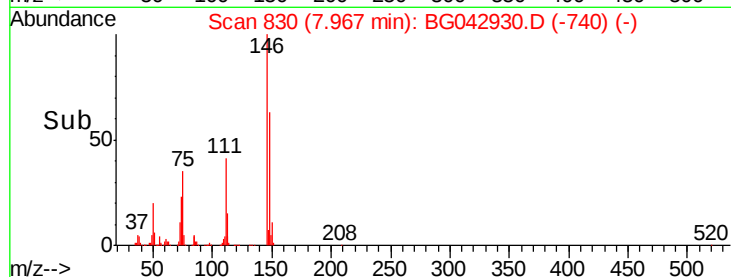
75 35.1 27.7 41.5



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): BGC



#13

1,4-Dichlorobenzene

Concen: 116.411 ng

RT: 8.11 min Scan# 854

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

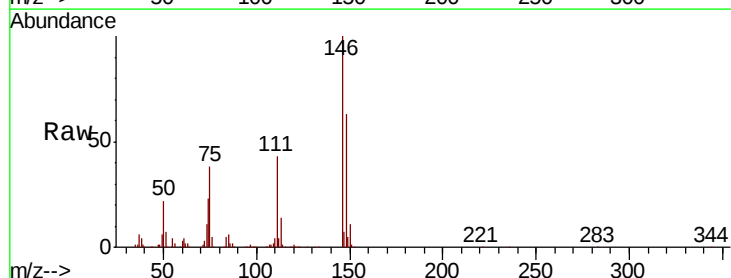
Tgt Ion:146 Resp: 475469

Ion Ratio Lower Upper

146 100

148 63.2 50.9 76.3

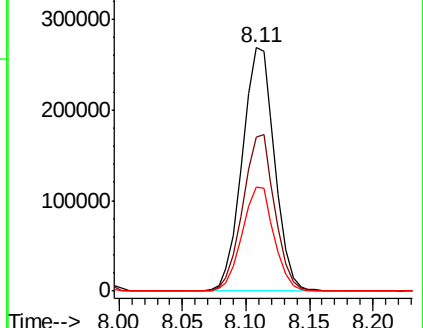
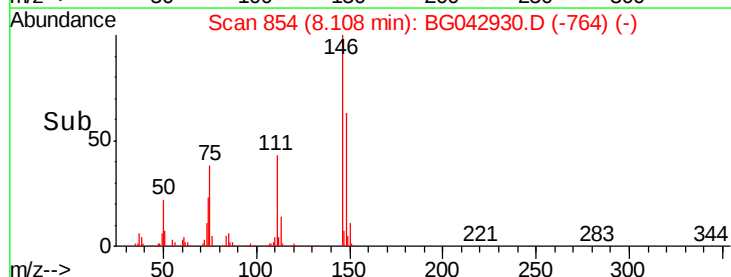
111 43.0 31.8 47.8

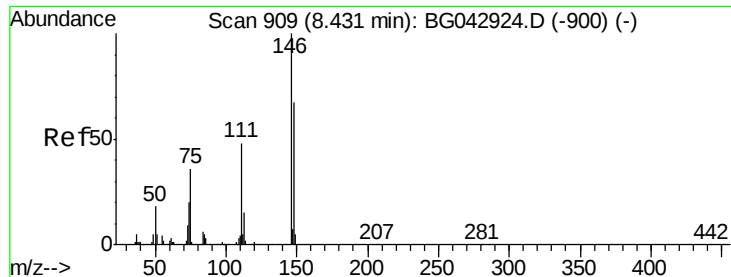


Abundance Ion 146.00 (145.70 to 146.70): E

Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E

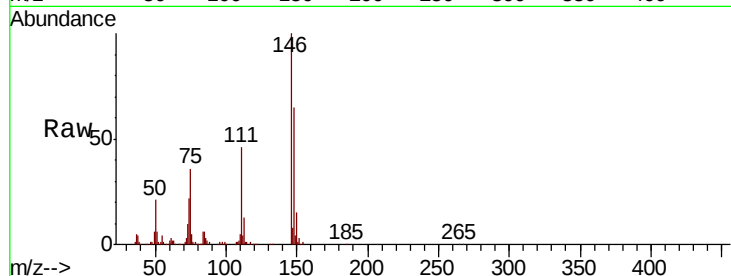




#14  
 1,2-Dichlorobenzene  
 Concen: 64.630 ng  
 RT: 8.43 min Scan# 909  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

Instrument :  
 BNA\_G  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.7  | 53.4  | 80.2  |
| 111     | 46.2  | 38.5  | 57.7  |

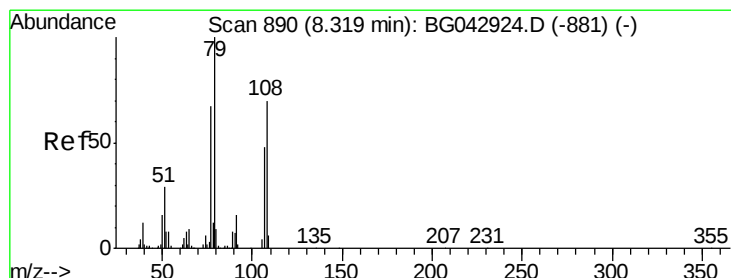
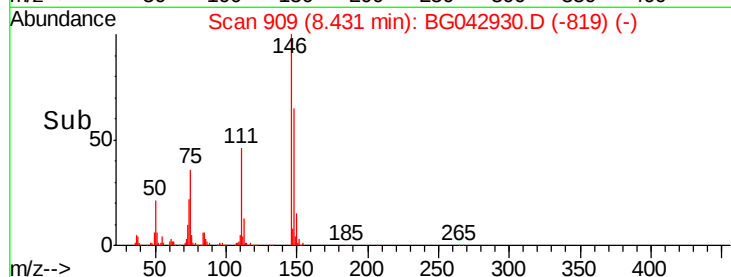
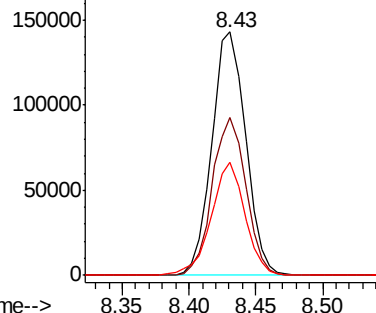


Abundance

Ion 146.00 (145.70 to 146.70): E

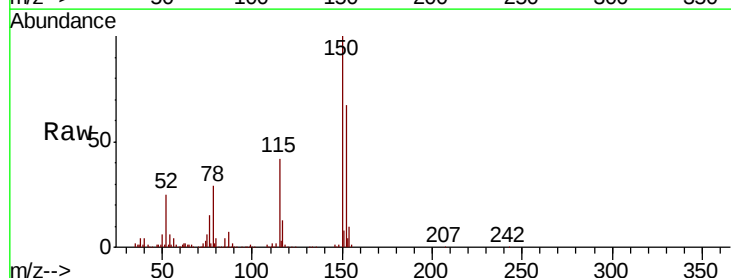
Ion 148.00 (147.70 to 148.70): E

Ion 111.00 (110.70 to 111.70): E



#15  
 Benzyl Alcohol  
 Concen: 2.480 ng  
 RT: 8.40 min Scan# 903  
 Delta R.T. 0.08 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 79      | 100   |       |       |
| 108     | 41.6  | 55.7  | 83.5# |
| 77      | 114.2 | 53.3  | 79.9# |

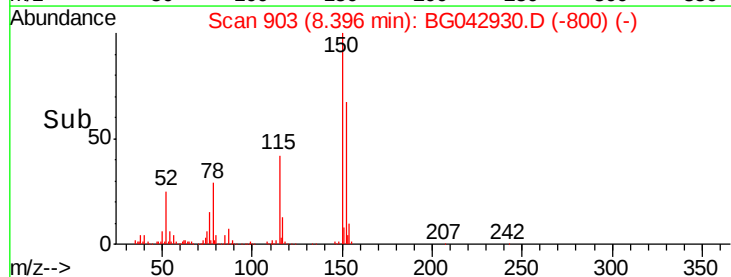
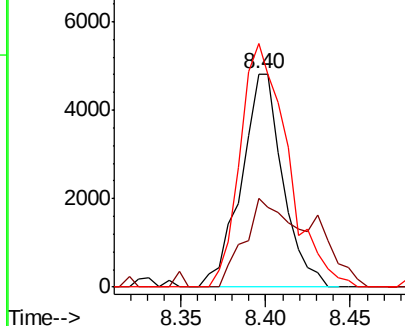


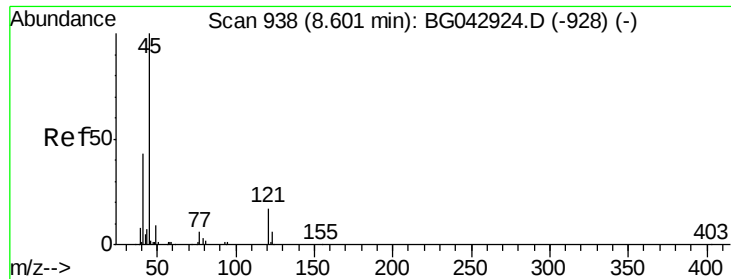
Abundance

Ion 79.00 (78.70 to 79.70): BGC

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BGC

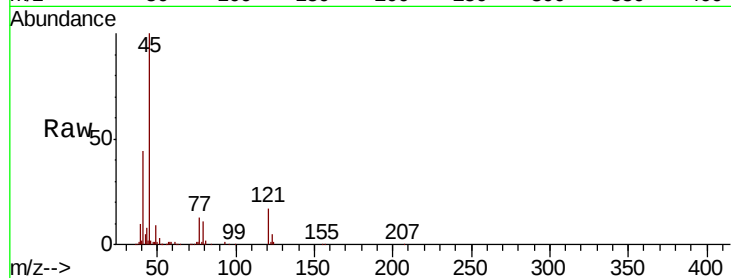




#16  
2,2'-oxvbis(1-Chloropropane)  
Concen: 50.455 ng  
RT: 8.61 min Scan# 939  
Delta R.T. 0.01 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 45      | 100   |       |       |
| 77      | 12.5  | 0.0   | 32.8  |
| 79      | 10.5  | 0.0   | 29.4  |

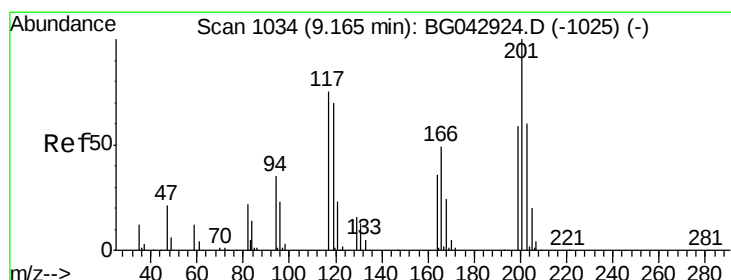
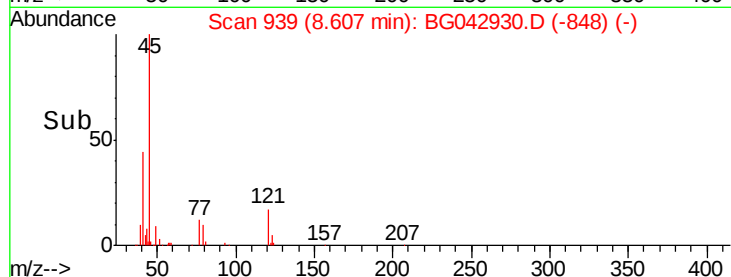
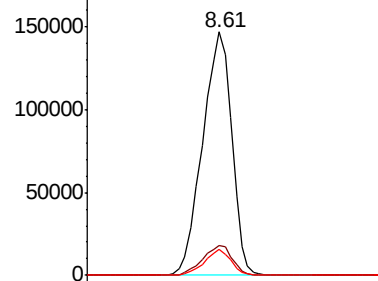


Abundance

Ion 45.00 (44.70 to 45.70): BGC

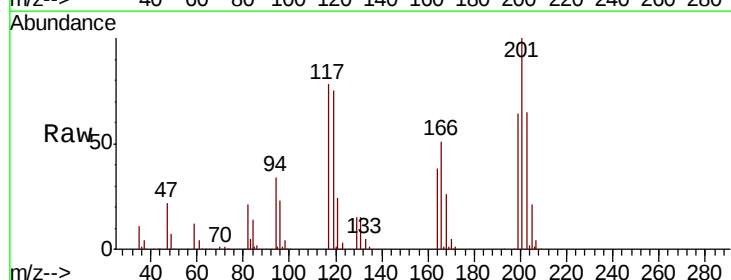
Ion 77.00 (76.70 to 77.70): BGC

Ion 79.00 (78.70 to 79.70): BGC



#18  
Hexachloroethane  
Concen: 158.481 ng  
RT: 9.16 min Scan# 1033  
Delta R.T. -0.01 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 96.8  | 74.6  | 111.8 |
| 201     | 128.4 | 106.0 | 159.0 |

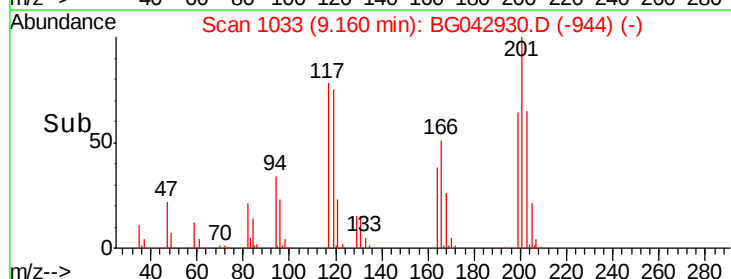
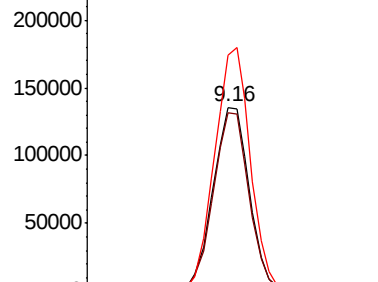


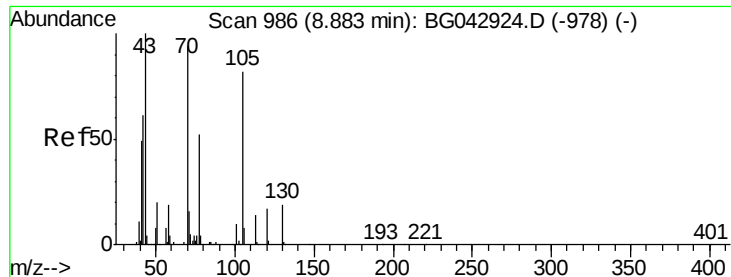
Abundance

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

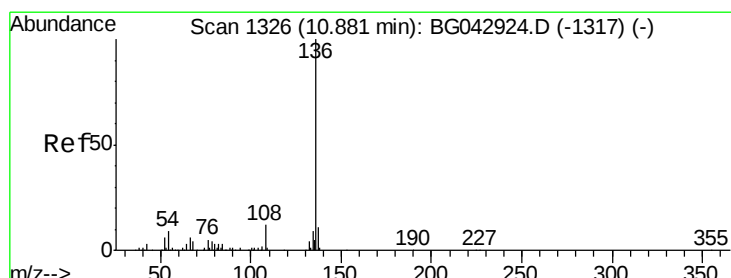
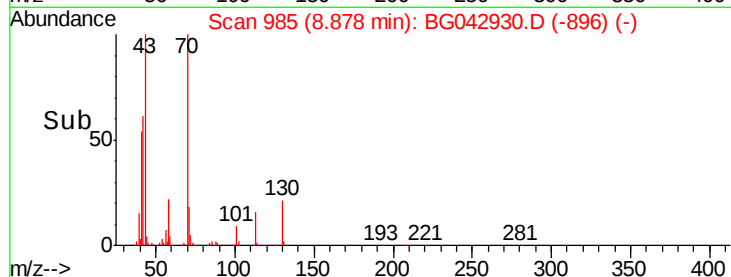
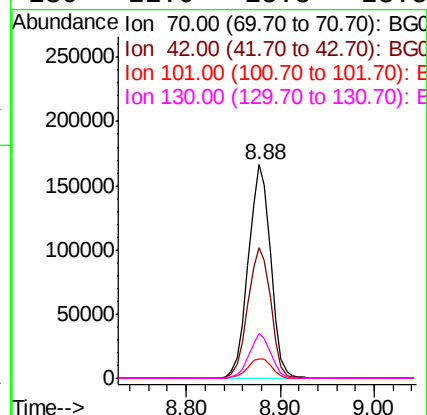
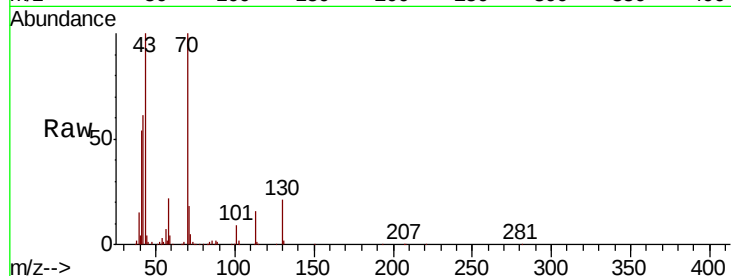




#19  
n-Nitroso-di-n-propylamine  
Concen: 93.758 ng  
RT: 8.88 min Scan# 985  
Delta R.T. -0.01 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

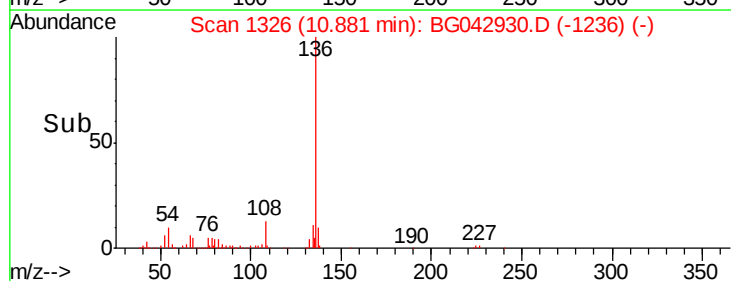
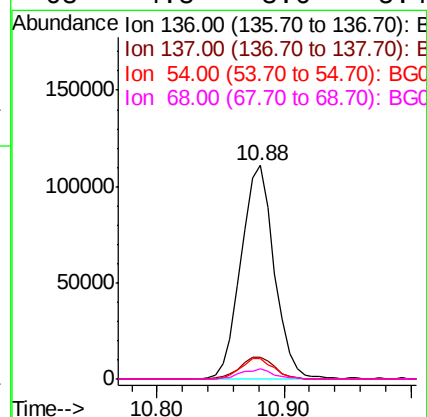
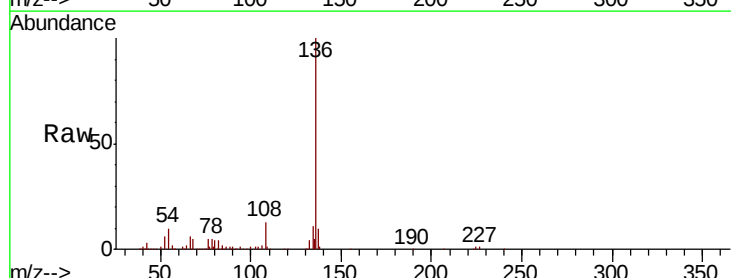
Instrument :  
BNA\_G  
ClientSampled :

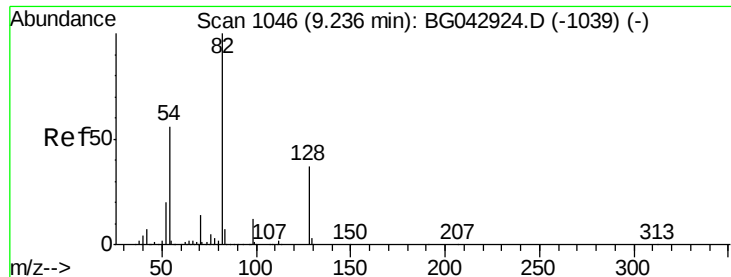
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 61.2  | 52.6  | 79.0  |
| 101     | 9.1   | 8.7   | 13.1  |
| 130     | 21.0  | 15.8  | 23.8  |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.88 min Scan# 1326  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 10.3  | 8.5   | 12.7  |
| 54      | 9.7   | 7.4   | 11.2  |
| 68      | 4.8   | 3.6   | 5.4   |

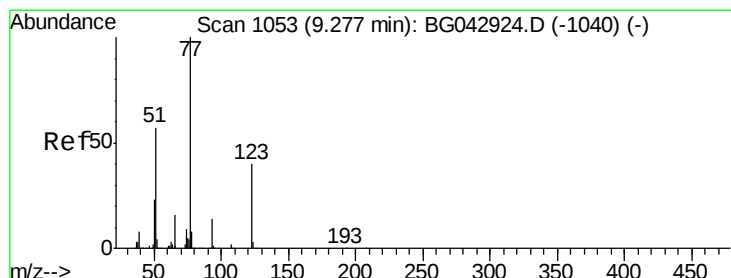
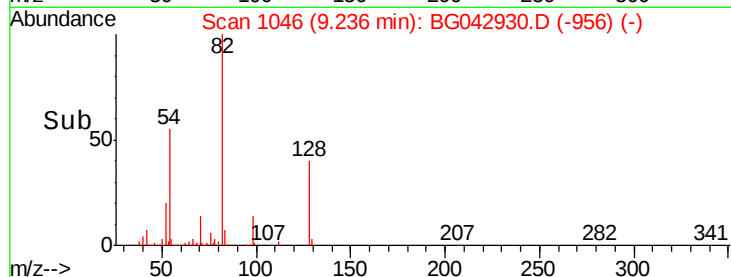
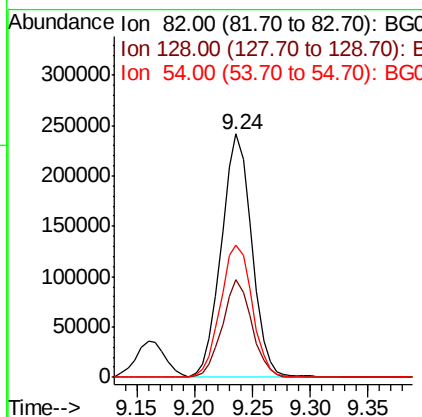
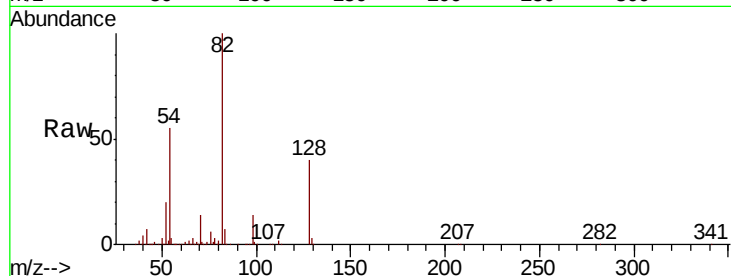




#23  
 Nitrobenzene-d5  
 Concen: 106.213 ng  
 RT: 9.24 min Scan# 1046  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

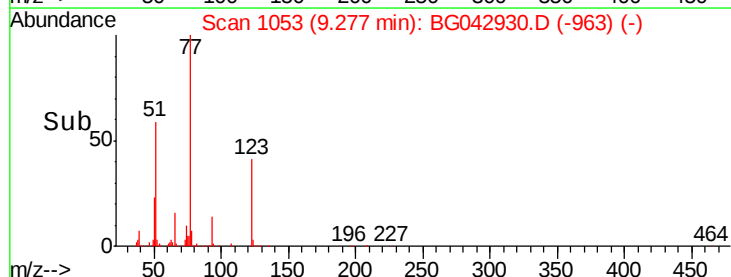
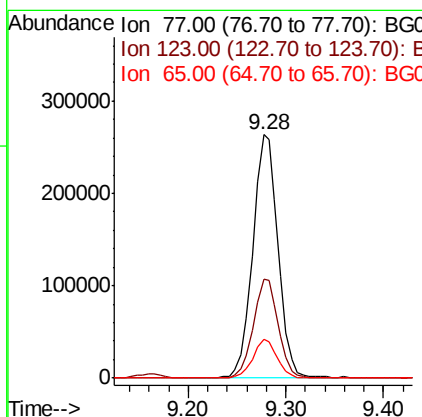
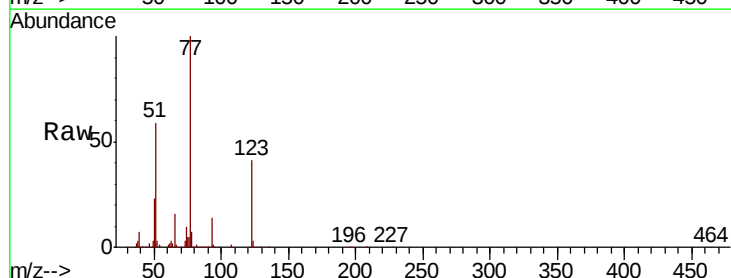
Instrument :  
 BNA\_G  
 ClientSampleId :

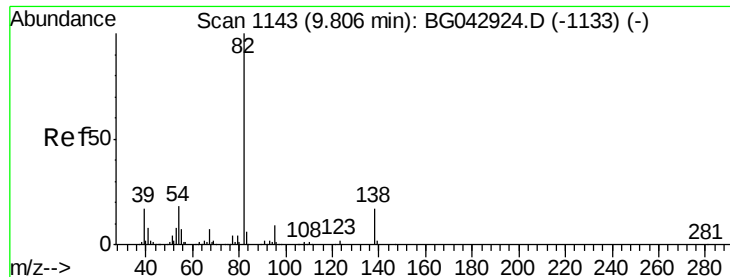
| Tot Ion   | 82    | Resp  | 440539 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 40.1  | 29.5  | 44.3   |
| 54        | 54.5  | 44.6  | 67.0   |



#24  
 Nitrobenzene  
 Concen: 121.346 ng  
 RT: 9.28 min Scan# 1053  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

| Tgt Ion   | 77    | Resp  | 480078 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 77        | 100   |       |        |
| 123       | 40.6  | 31.9  | 47.9   |
| 65        | 15.9  | 12.4  | 18.6   |





#25

Isophorone

Concen: 21.175 ng

RT: 9.80 min Scan# 1142

Delta R.T. -0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

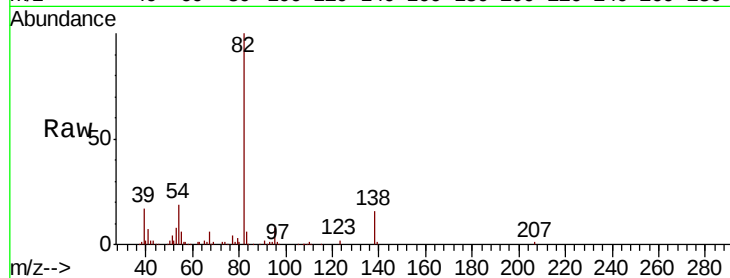
Tot Ion: 82 Resp: 154275

Ion Ratio Lower Upper

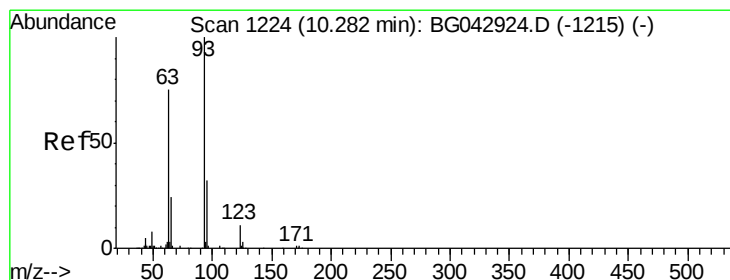
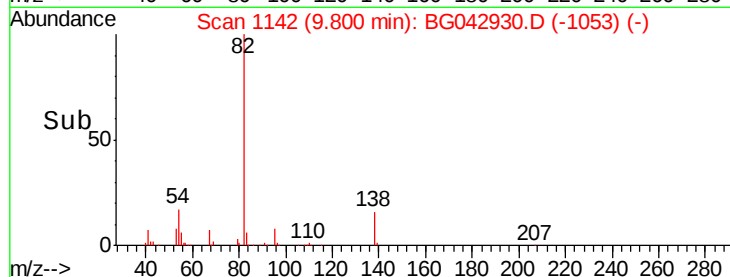
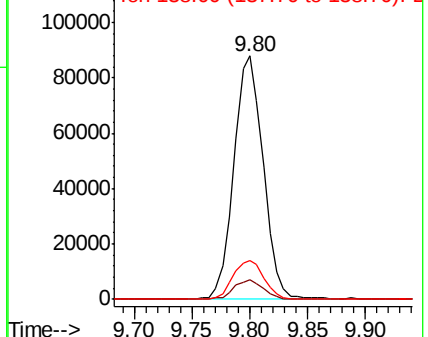
82 100

95 8.1 7.0 10.4

138 15.8 13.8 20.6



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



#28

bis(2-Chloroethoxy)methane

Concen: 39.347 ng

RT: 10.28 min Scan# 1224

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

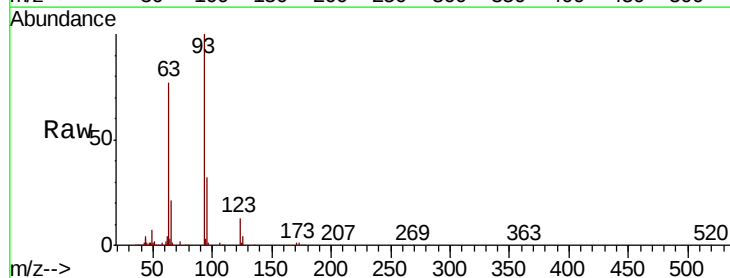
Tgt Ion: 93 Resp: 162646

Ion Ratio Lower Upper

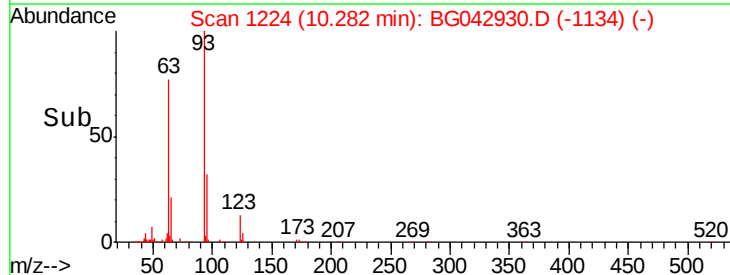
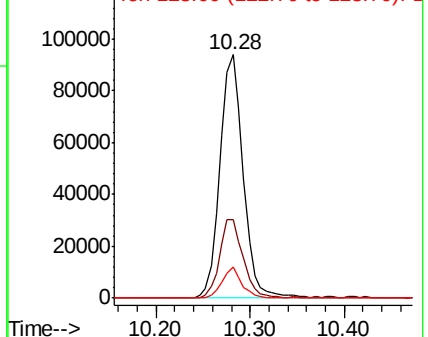
93 100

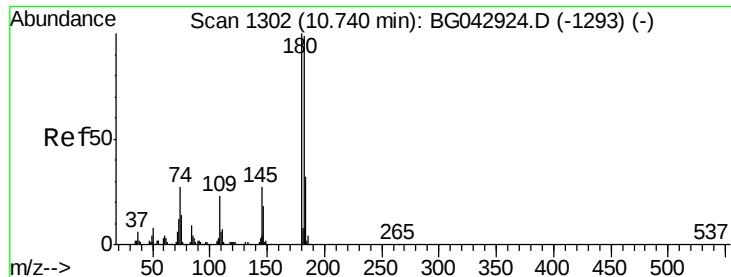
95 32.1 25.4 38.0

123 12.6 9.3 13.9



Abundance Ion 93.00 (92.70 to 93.70): BGC  
Ion 95.00 (94.70 to 95.70): BGC  
Ion 123.00 (122.70 to 123.70): BGC

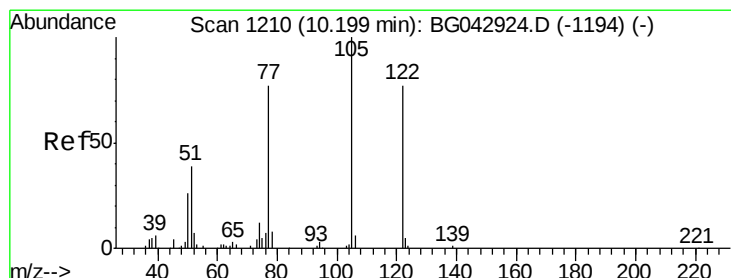
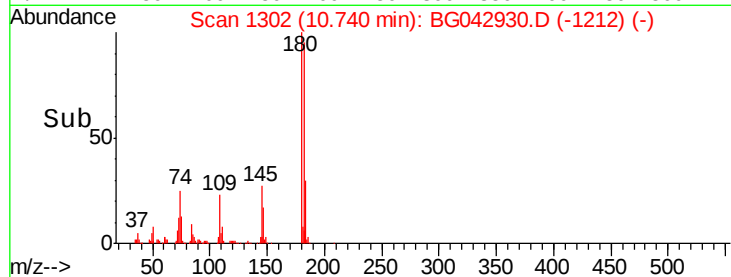
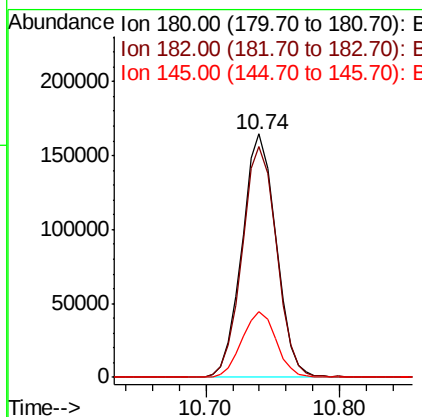
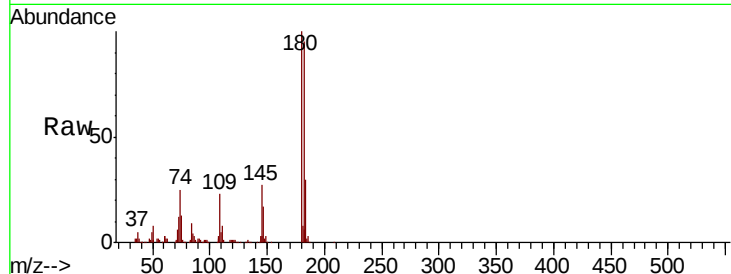




#30  
 1,2,4-Trichlorobenzene  
 Concen: 69.841 ng  
 RT: 10.74 min Scan# 1302  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

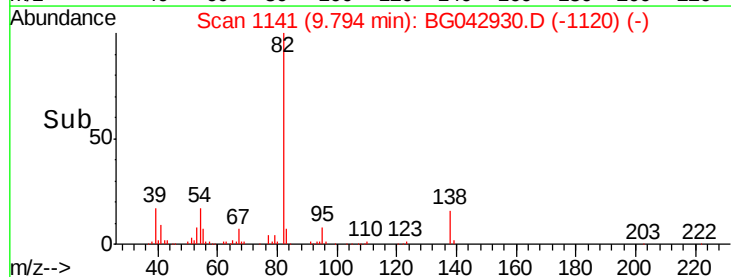
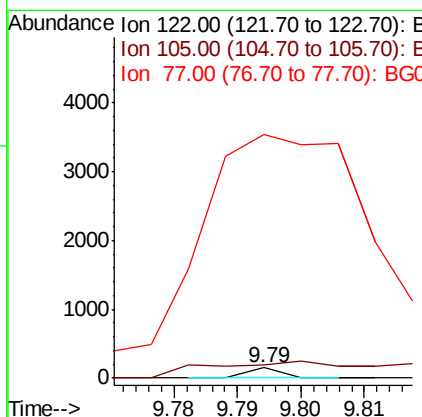
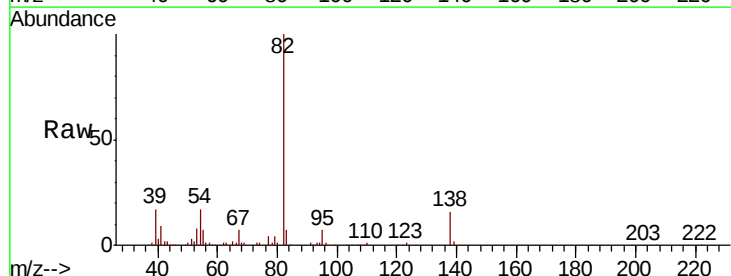
Instrument :  
 BNA\_G  
 ClientSampleId :

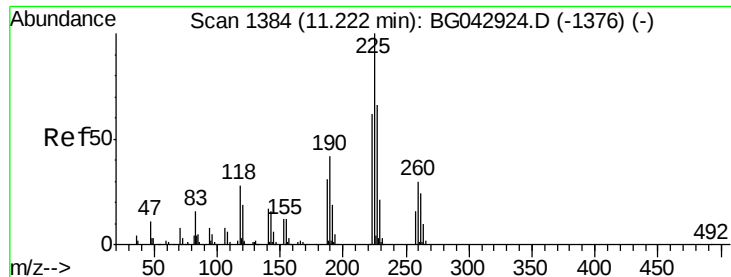
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 94.6  | 79.3  | 118.9 |
| 145     | 26.9  | 22.0  | 33.0  |



#32  
 Benzoic acid  
 Concen: 2.827 ng  
 RT: 9.79 min Scan# 1141  
 Delta R.T. -0.40 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio  | Lower | Upper  |
|---------|--------|-------|--------|
| 122     | 100    |       |        |
| 105     | 122.0  | 107.5 | 147.5  |
| 77      | 2358.7 | 79.8  | 119.8# |





#34

Hexachlorobutadiene

Concen: 146.242 ng

RT: 11.22 min Scan# 1384

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

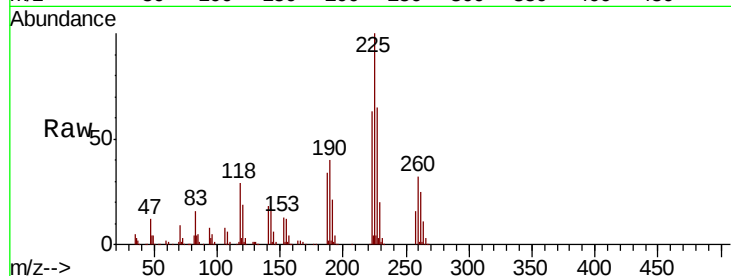
Tot Ion:225 Resp: 454864

Ion Ratio Lower Upper

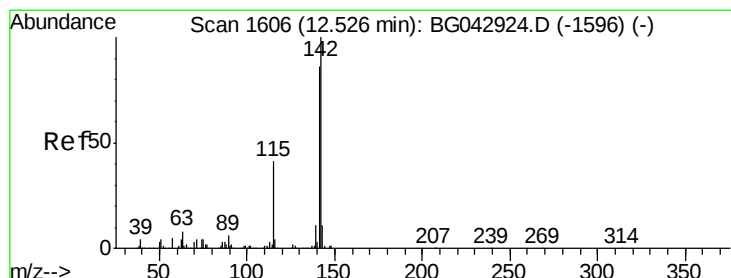
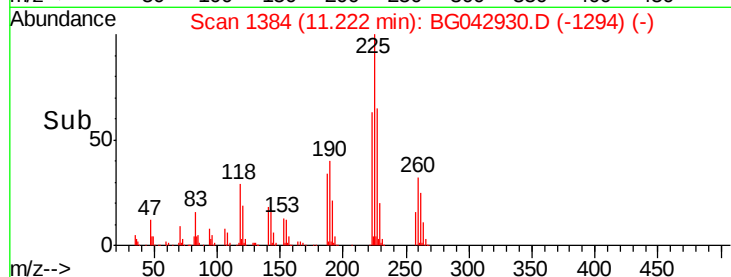
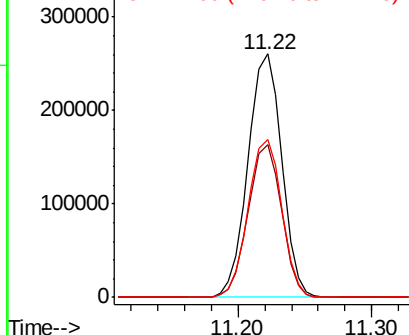
225 100

223 63.0 49.3 73.9

227 65.0 52.8 79.2



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: 97.007 ng

RT: 12.53 min Scan# 1607

Delta R.T. 0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

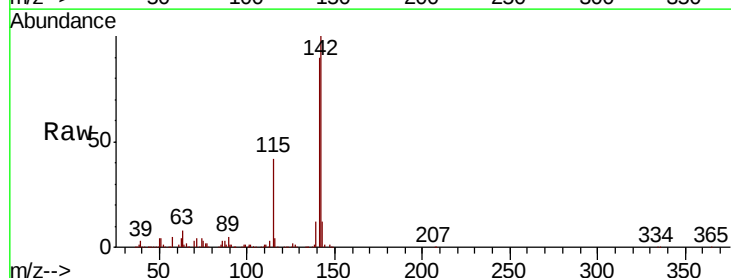
Tgt Ion:142 Resp: 734421

Ion Ratio Lower Upper

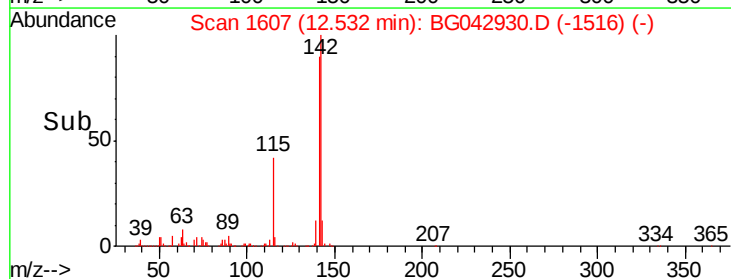
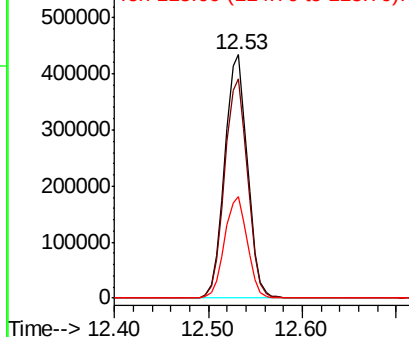
142 100

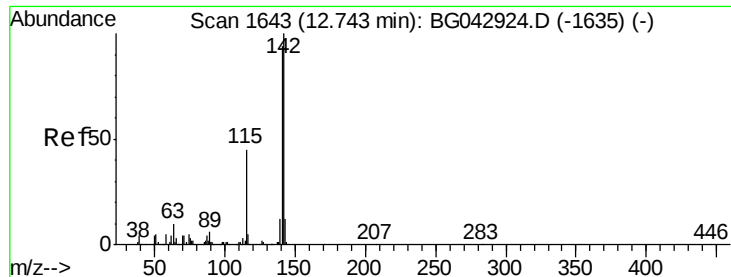
141 90.1 69.0 103.4

115 41.8 32.8 49.2



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

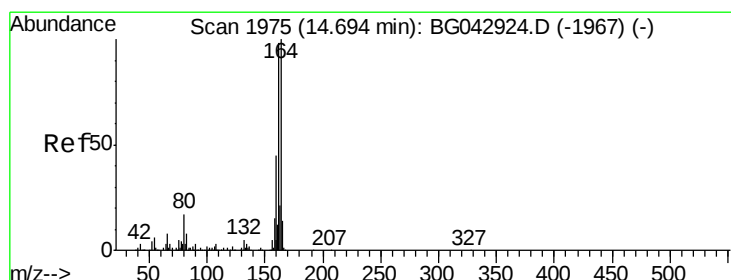
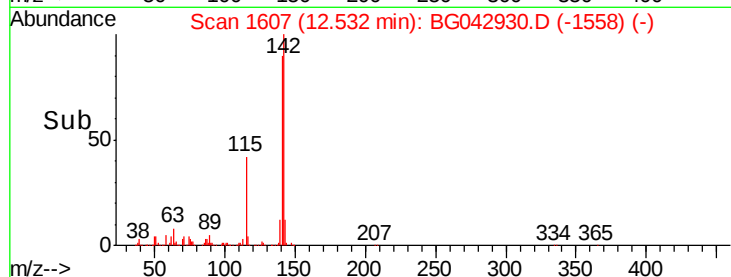
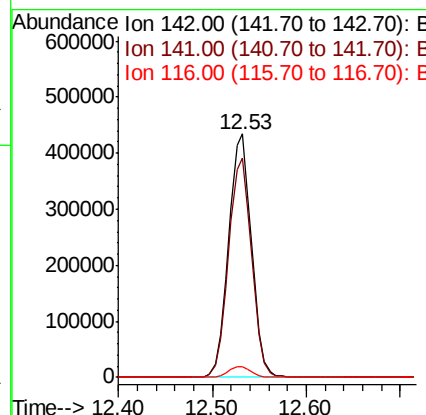
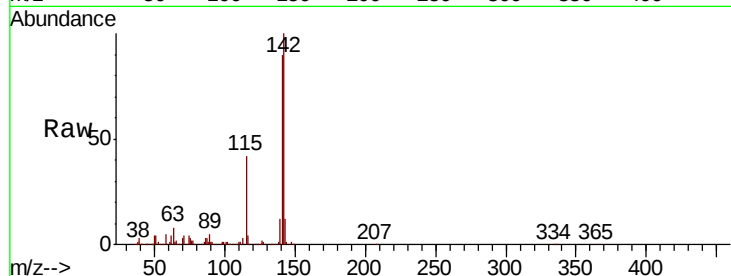




#38  
 1-Methylnaphthalene  
 Concen: 102.520 ng  
 RT: 12.53 min Scan# 1607  
 Delta R.T. -0.21 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

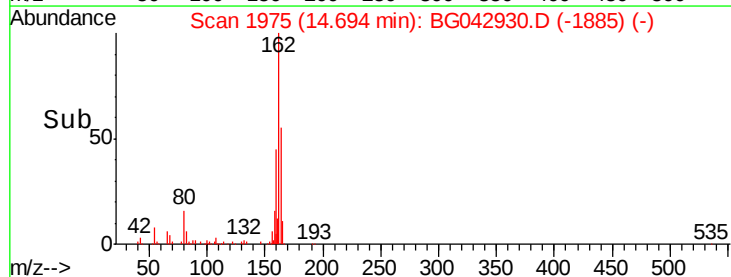
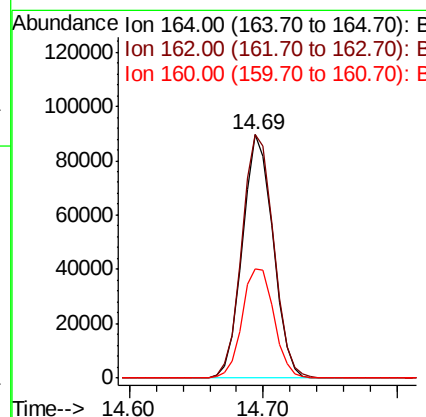
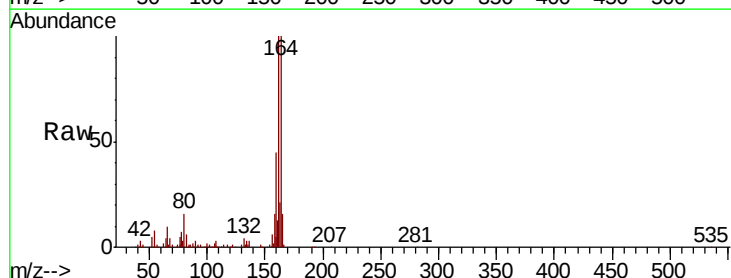
Instrument :  
 BNA\_G  
 ClientSampleID :

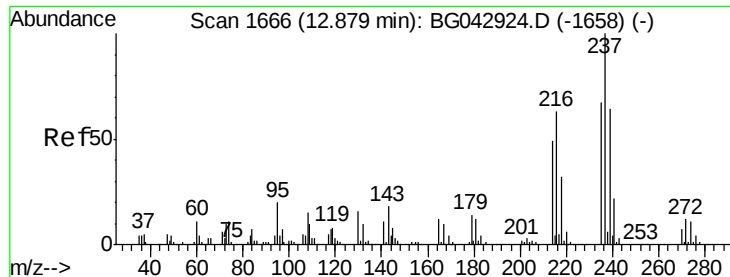
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.1  | 74.9  | 112.3 |
| 116     | 4.3   | 3.7   | 5.5   |



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.69 min Scan# 1975  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 100.1 | 78.5  | 117.7 |
| 160     | 44.7  | 35.9  | 53.9  |





#41

Hexachlorocyclopentadiene

Concen: 123.237 ng

RT: 12.88 min Scan# 1666

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

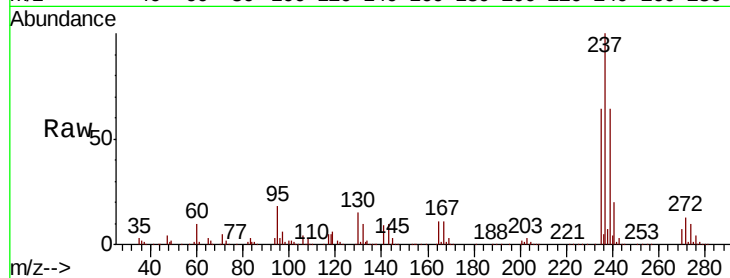
Tot Ion:237 Resp: 419136

Ion Ratio Lower Upper

237 100

235 63.7 46.7 86.7

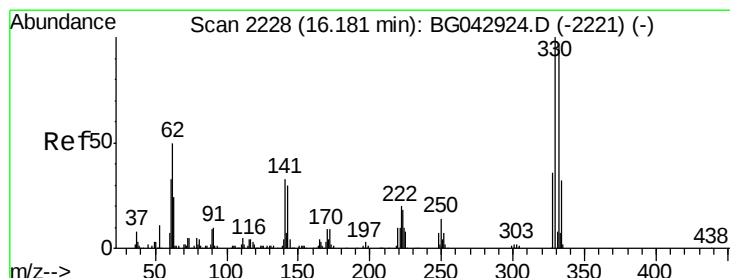
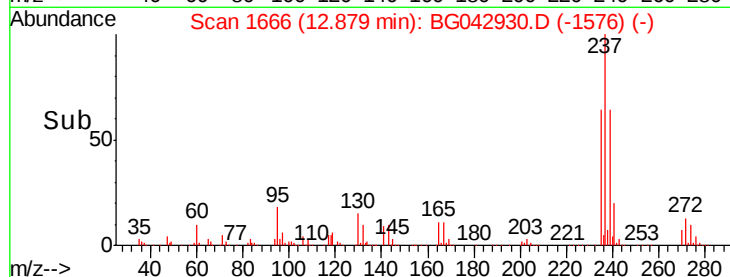
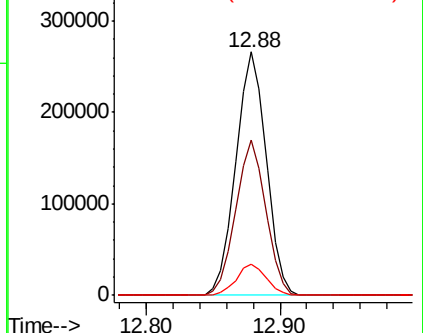
272 12.6 0.0 32.3



Abundance Ion 236.80 (236.50 to 237.50): E

Ion 234.90 (234.60 to 235.60): E

Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 138.312 ng

RT: 16.18 min Scan# 2228

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

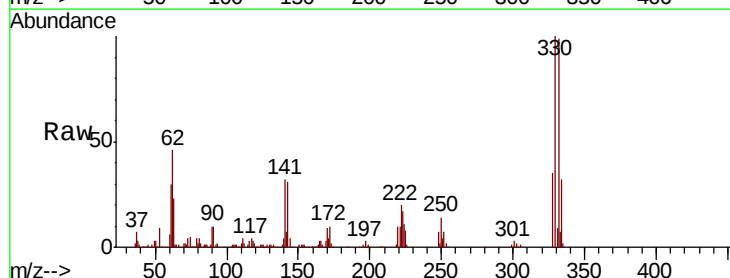
Tgt Ion:330 Resp: 337652

Ion Ratio Lower Upper

330 100

332 97.2 78.2 117.2

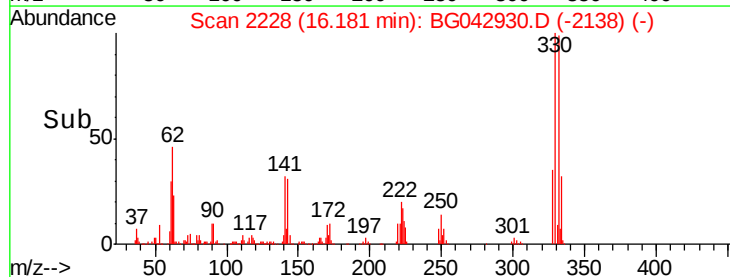
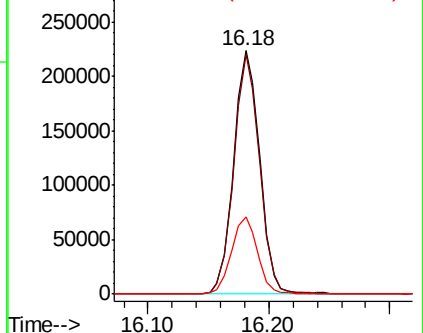
141 31.5 26.0 39.0

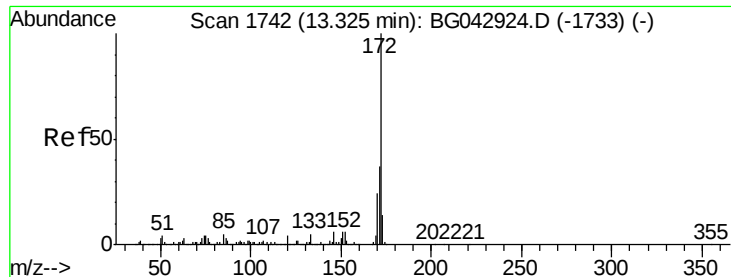


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



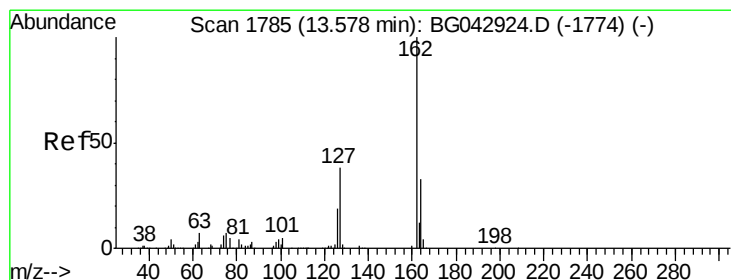
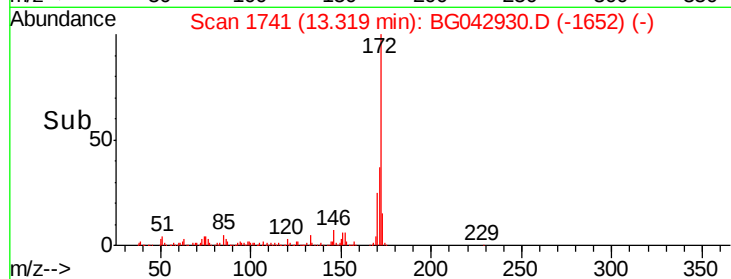
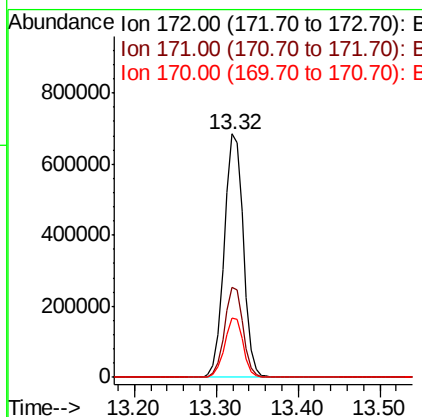
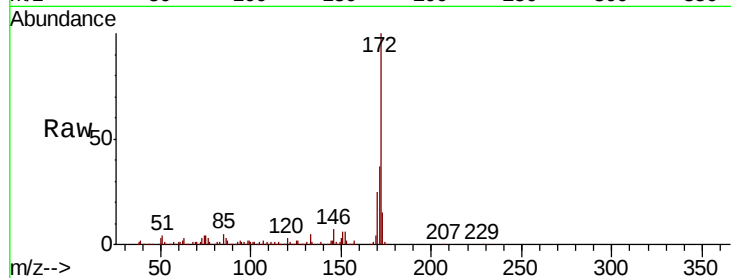


#45  
 2-Fluorobiphenyl  
 Concen: 113.404 ng  
 RT: 13.32 min Scan# 1741  
 Delta R.T. -0.01 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:172 Resp: 1110555  

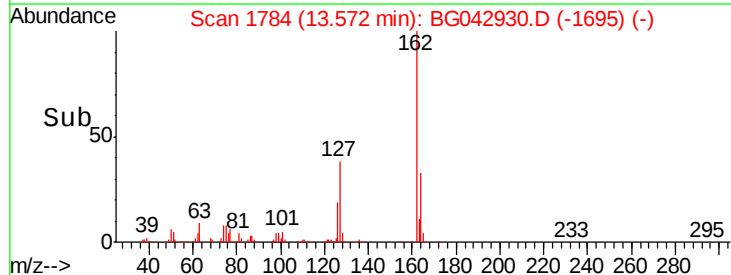
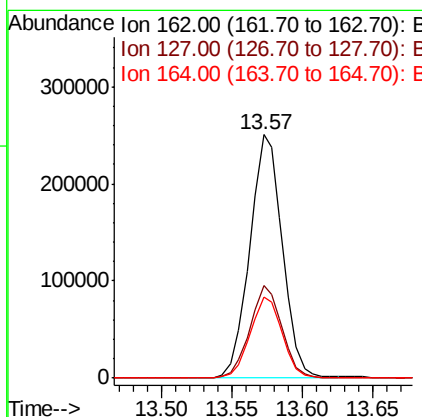
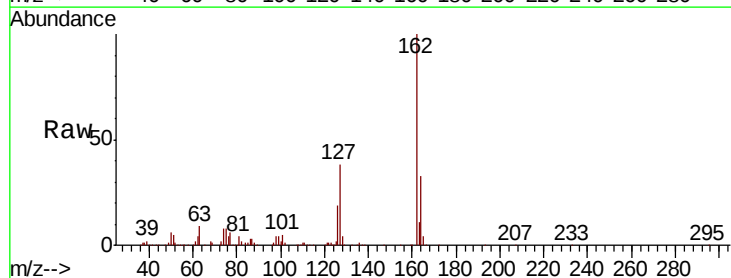
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 172 | 100   |       |       |
| 171 | 37.0  | 29.6  | 44.4  |
| 170 | 24.6  | 19.6  | 29.4  |

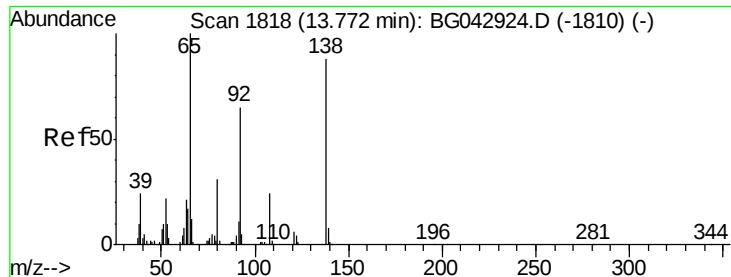


#47  
 2-Chloronaphthalene  
 Concen: 50.471 ng  
 RT: 13.57 min Scan# 1784  
 Delta R.T. -0.01 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

Tgt Ion:162 Resp: 407391  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 162 | 100   |       |       |
| 127 | 37.8  | 31.0  | 46.6  |
| 164 | 33.1  | 26.2  | 39.2  |





#48

2-Nitroaniline

Concen: 6.534 ng

RT: 14.15 min Scan# 1883

Delta R.T. 0.38 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampled :

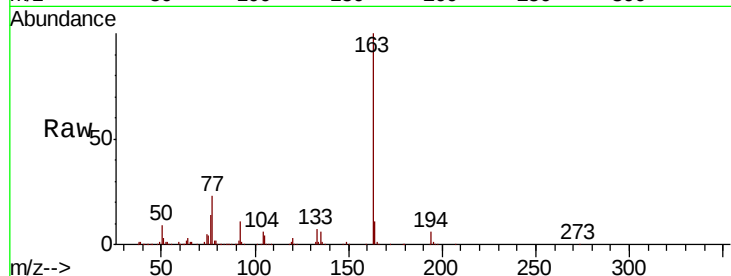
Tot Ion: 65 Resp: 17539

Ion Ratio Lower Upper

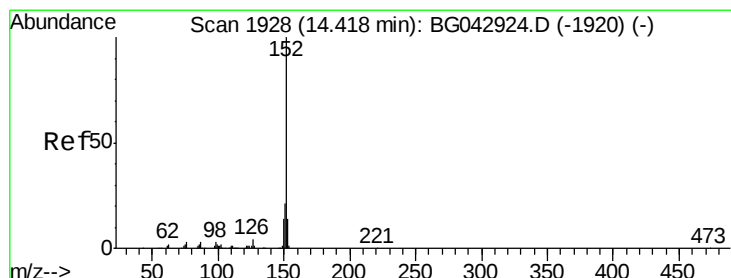
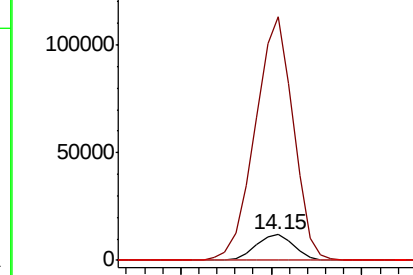
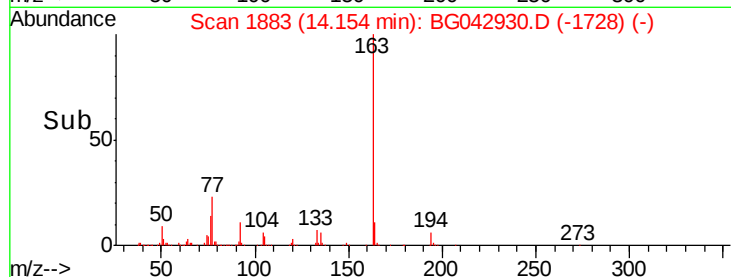
65 100

92 945.6 52.0 78.0#

138 0.0 70.4 105.6#



Abundance Ion 65.00 (64.70 to 65.70): BGC  
Ion 92.00 (91.70 to 92.70): BGC  
Ion 138.00 (137.70 to 138.70): BGC



#49

Acenaphthylene

Concen: 147.952 ng

RT: 14.42 min Scan# 1929

Delta R.T. 0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

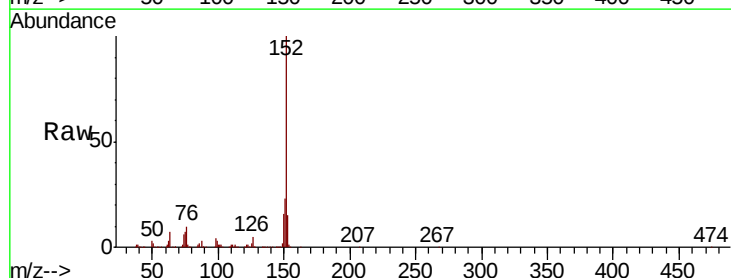
Tgt Ion: 152 Resp: 1827383

Ion Ratio Lower Upper

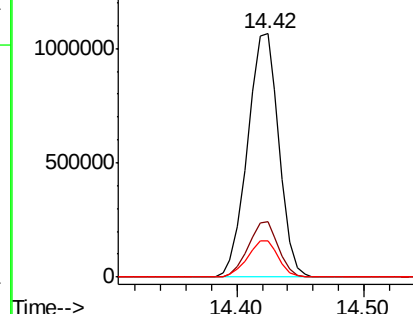
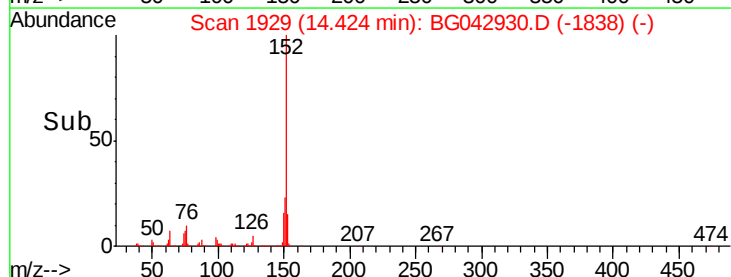
152 100

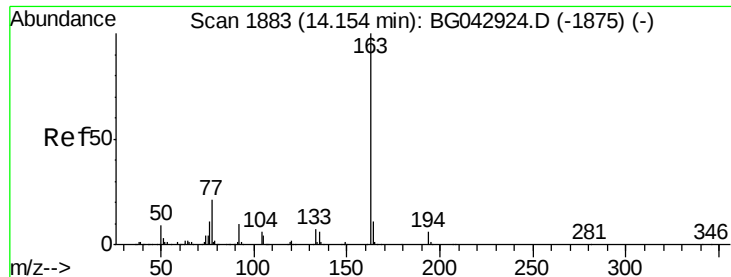
151 22.9 16.8 25.2

153 15.1 11.3 16.9



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E

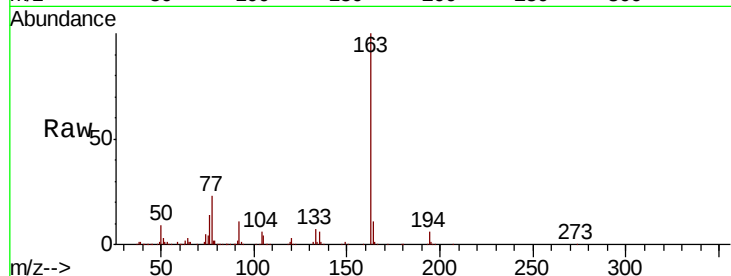




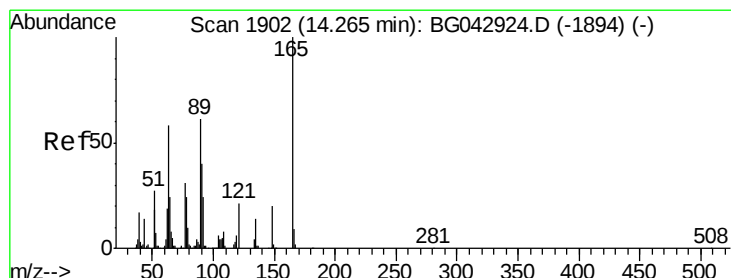
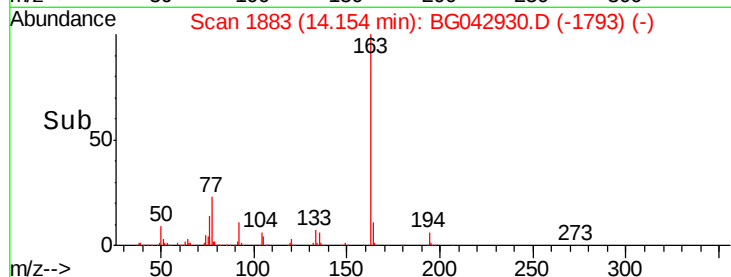
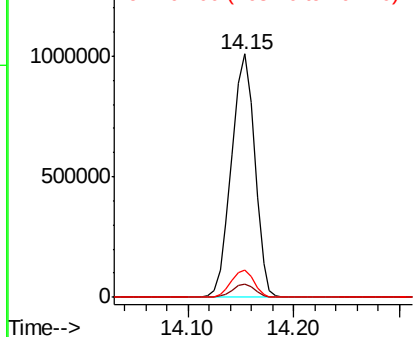
#50  
Dimethylphthalate  
Concen: 144.111 ng  
RT: 14.15 min Scan# 1883  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Instrument :  
BNA\_G  
ClientSampleId :

Tot Ion:163 Resp: 1532936  
Ion Ratio Lower Upper  
163 100  
194 5.5 4.4 6.6  
164 11.4 8.6 12.8

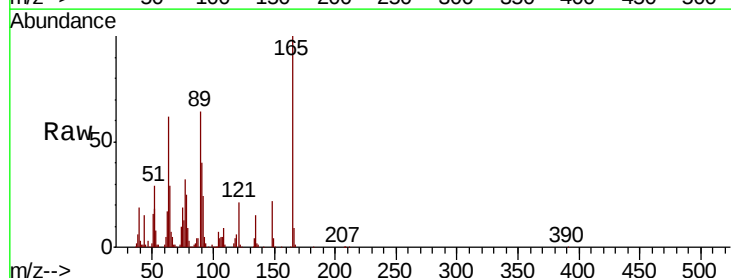


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

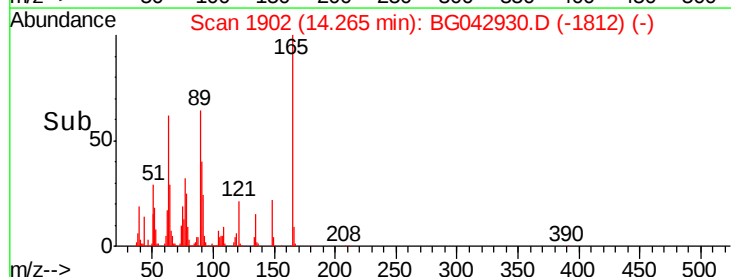
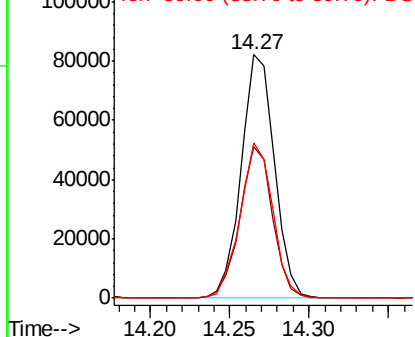


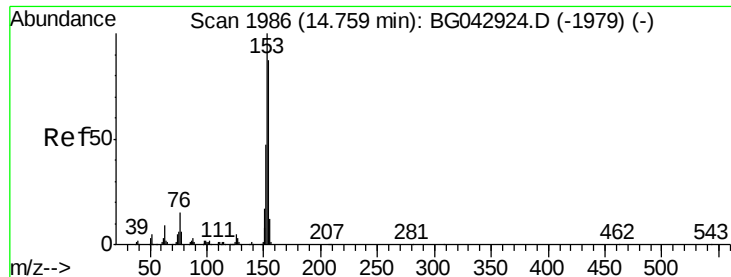
#51  
2,6-Dinitrotoluene  
Concen: 52.862 ng  
RT: 14.27 min Scan# 1902  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Tgt Ion:165 Resp: 119746  
Ion Ratio Lower Upper  
165 100  
63 62.1 50.3 75.5  
89 63.8 48.9 73.3



Abundance Ion 165.00 (164.70 to 165.70): E  
Ion 63.00 (62.70 to 63.70): BGC  
Ion 89.00 (88.70 to 89.70): BGC





#52

Acenaphthene

Concen: 167.993 ng

RT: 14.76 min Scan# 1987

Delta R.T. 0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

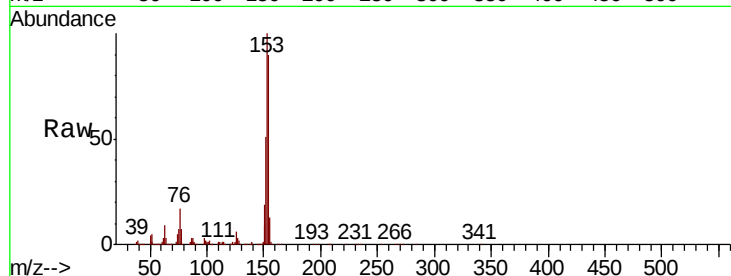
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:154 Resp: 1388835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 154 | 100   |       |       |
| 153 | 110.8 | 91.4  | 137.0 |
| 152 | 57.0  | 42.8  | 64.2  |

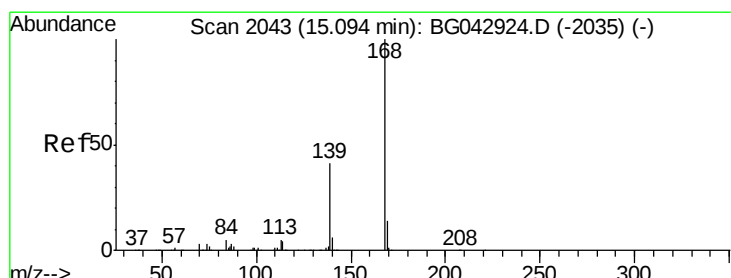
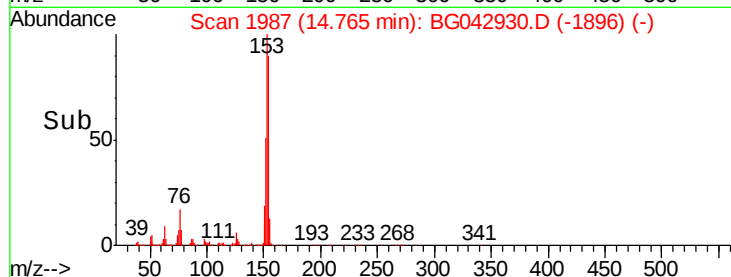
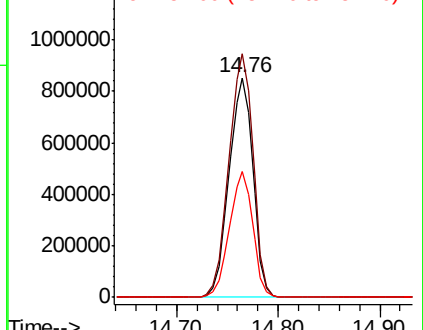


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#55

Dibenzofuran

Concen: 107.921 ng

RT: 15.09 min Scan# 2043

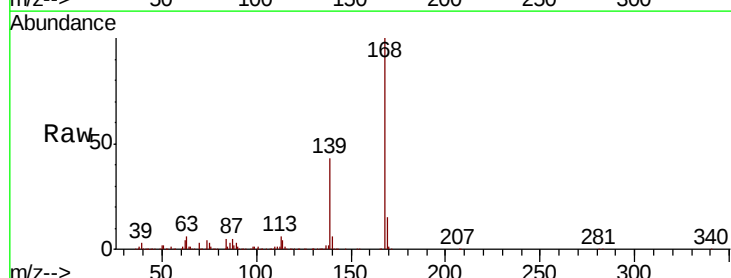
Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Tgt Ion:168 Resp: 1319824

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 168 | 100   |       |       |
| 139 | 42.7  | 32.6  | 48.8  |
| 169 | 15.0  | 11.2  | 16.8  |

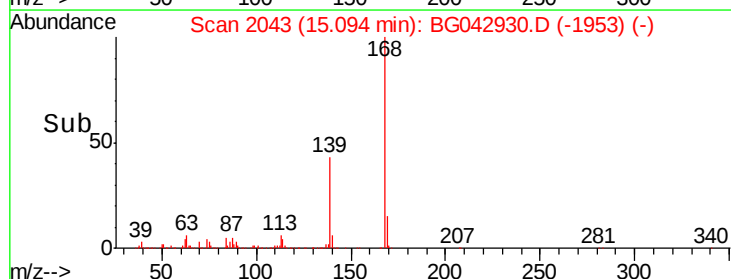
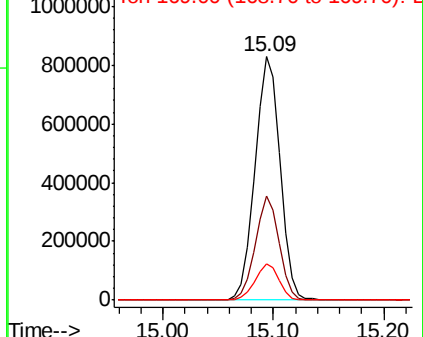


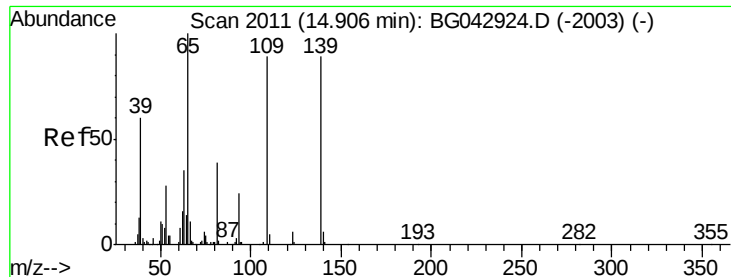
Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

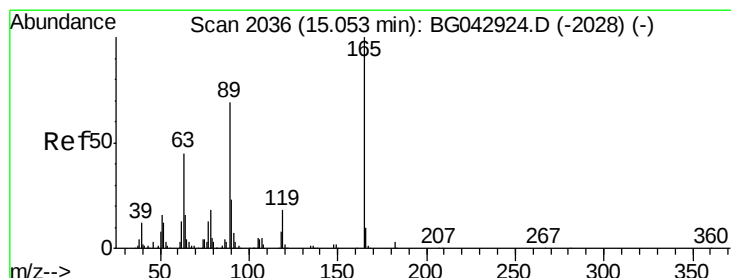
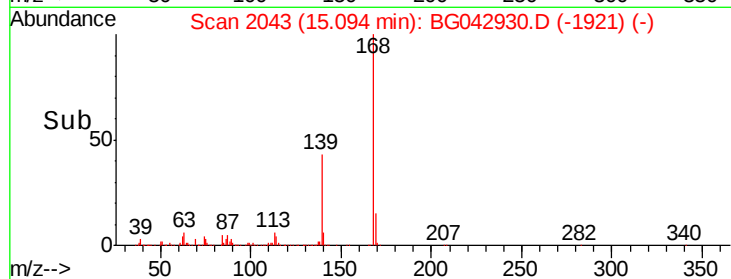
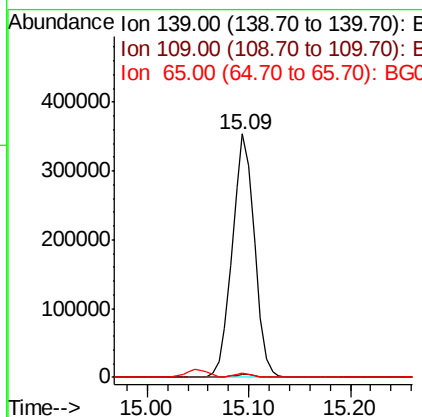
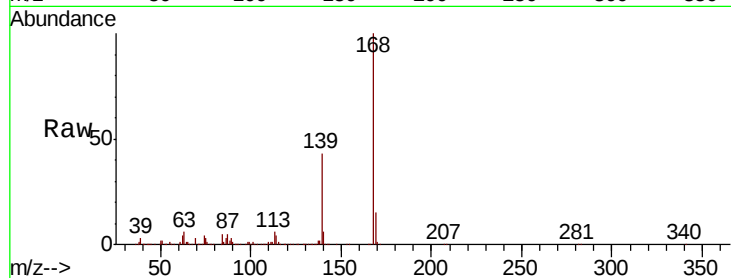




#56  
4-Nitrophenol  
Concen: 301.538 ng  
RT: 15.09 min Scan# 2043  
Delta R.T. 0.19 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

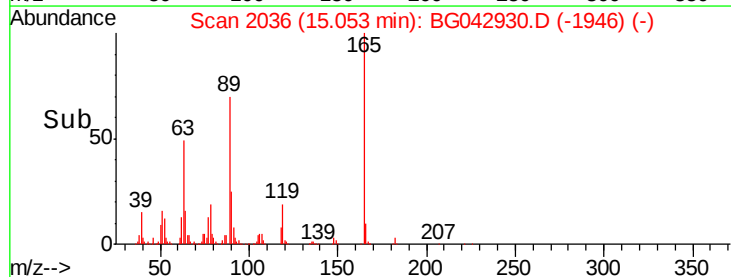
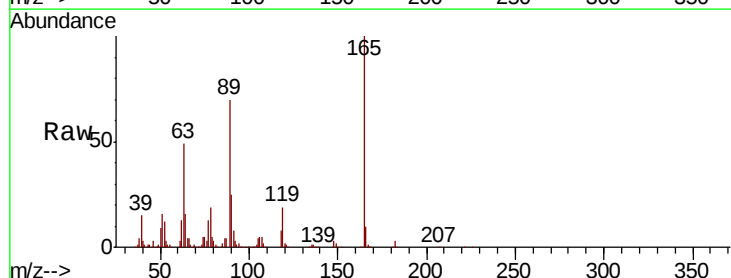
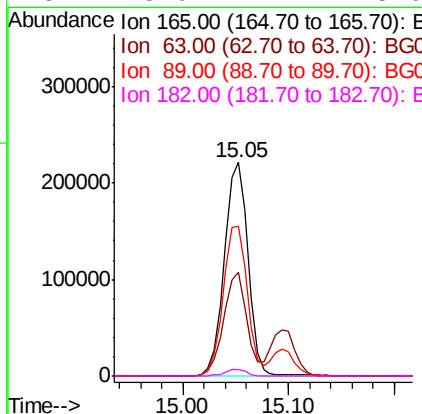
Instrument :  
BNA\_G  
ClientSampleId :

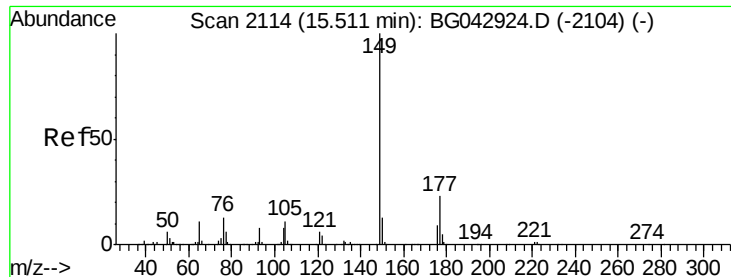
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 139     | 100   |       |        |
| 109     | 1.1   | 79.4  | 119.4# |
| 65      | 1.6   | 92.5  | 132.5# |



#57  
2,4-Dinitrotoluene  
Concen: 103.628 ng  
RT: 15.05 min Scan# 2036  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 48.8  | 36.5  | 54.7  |
| 89      | 69.9  | 55.5  | 83.3  |
| 182     | 3.0   | 2.4   | 3.6   |

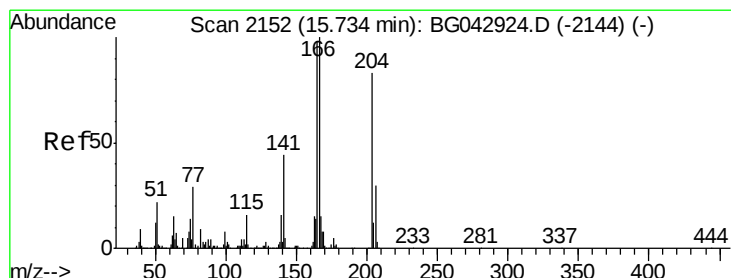
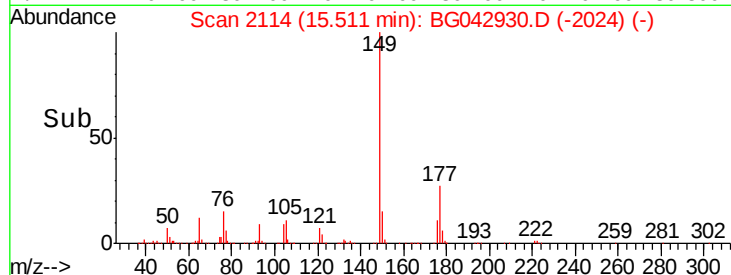
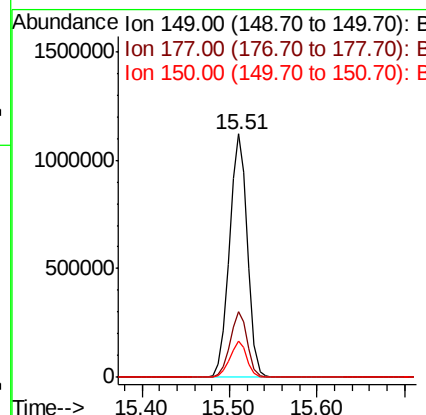
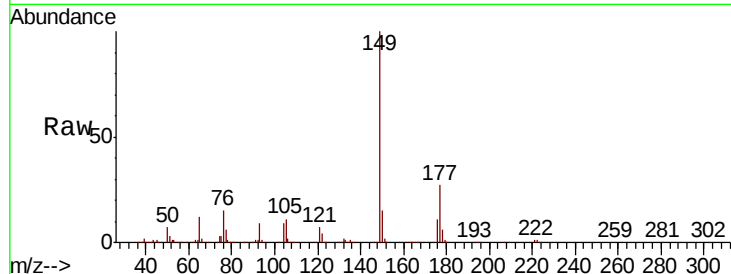




#60  
 Diethylphthalate  
 Concen: 145.966 ng  
 RT: 15.51 min Scan# 2114  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

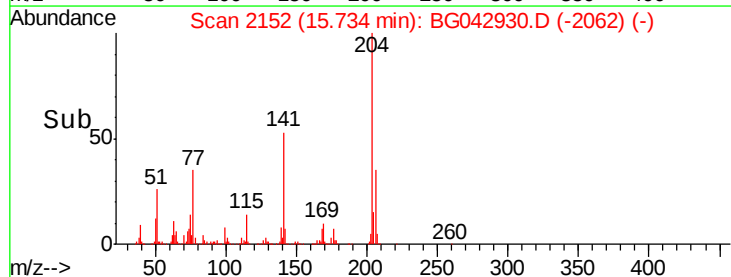
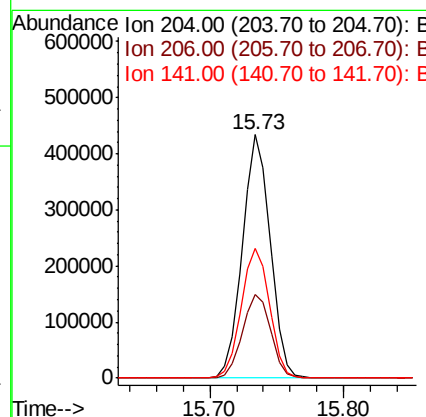
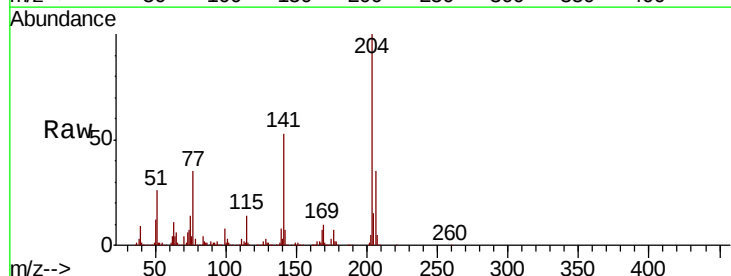
Instrument :  
 BNA\_G  
 ClientSampleId :

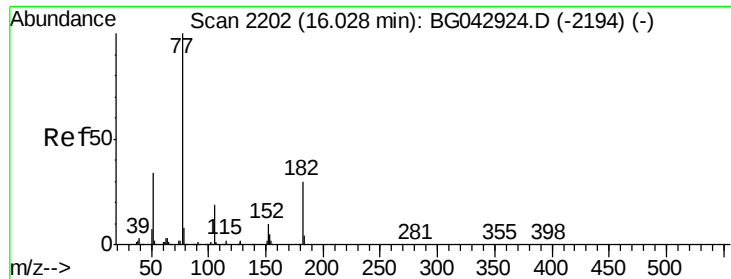
|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 149   | Resp: | 1580148 |
| Ion      | Ratio | Lower | Upper   |
| 149      | 100   |       |         |
| 177      | 27.0  | 18.8  | 28.2    |
| 150      | 14.8  | 10.6  | 15.8    |



#61  
 4-Chlorophenyl-phenylether  
 Concen: 99.857 ng  
 RT: 15.73 min Scan# 2152  
 Delta R.T. 0.00 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 204   | Resp: | 625292 |
| Ion      | Ratio | Lower | Upper  |
| 204      | 100   |       |        |
| 206      | 34.6  | 28.5  | 42.7   |
| 141      | 53.3  | 42.4  | 63.6   |





#63

Azobenzene

Concen: 4.742 ng

RT: 15.95 min Scan# 2188

Delta R.T. -0.08 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

Tot Ion: 77 Resp: 46735

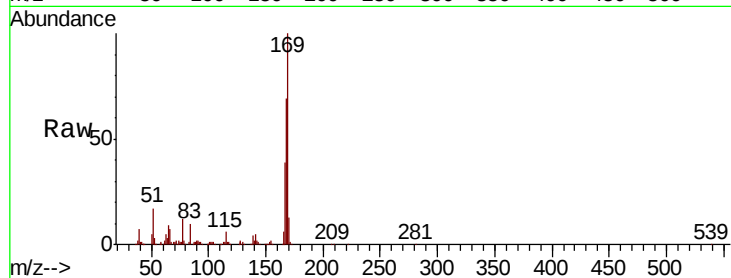
Ion Ratio Lower Upper

77 100

182 0.0 10.2 50.2#

105 1.3 0.0 39.1

51 136.2 13.9 53.9#

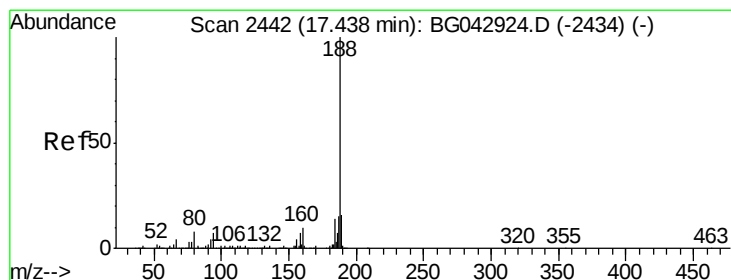
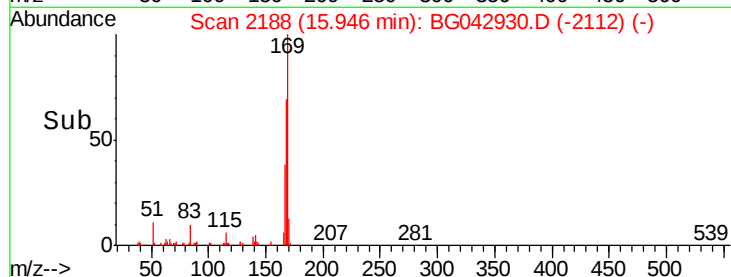
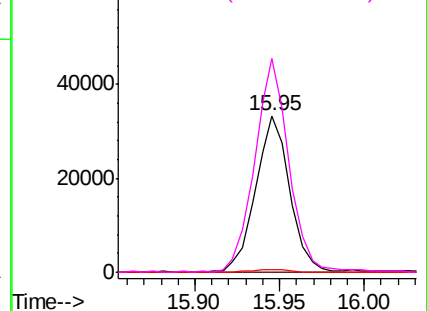


Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 182.00 (181.70 to 182.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 51.00 (50.70 to 51.70): BGC



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.44 min Scan# 2442

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

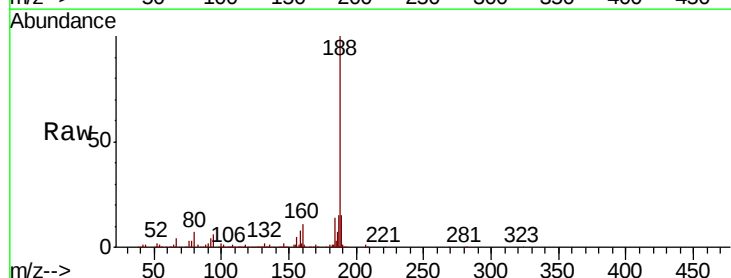
Tgt Ion: 188 Resp: 341844

Ion Ratio Lower Upper

188 100

94 6.4 5.7 8.5

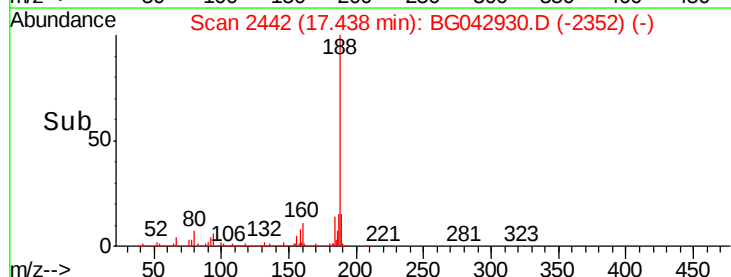
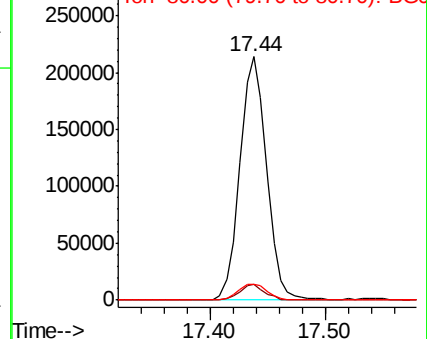
80 6.7 6.5 9.7

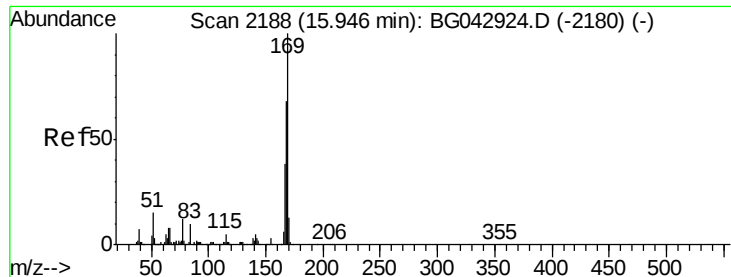


Abundance Ion 188.00 (187.70 to 188.70): BGC

Ion 94.00 (93.70 to 94.70): BGC

Ion 80.00 (79.70 to 80.70): BGC

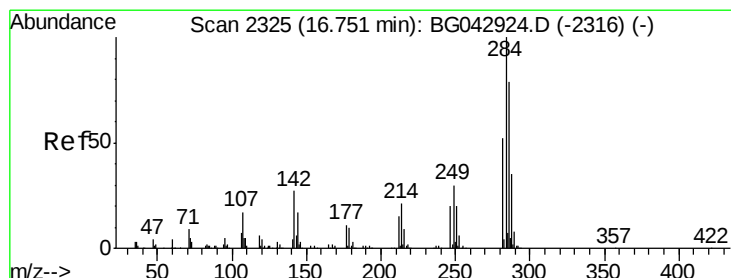
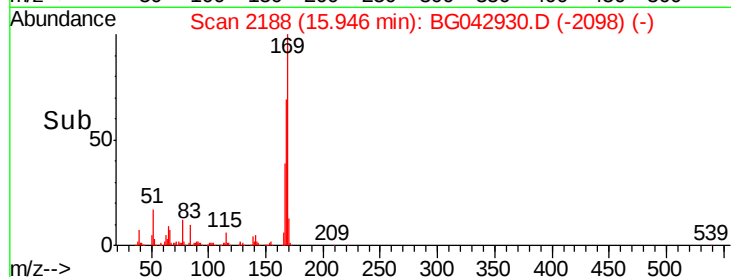
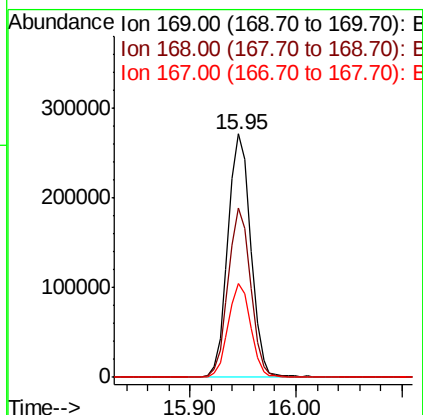
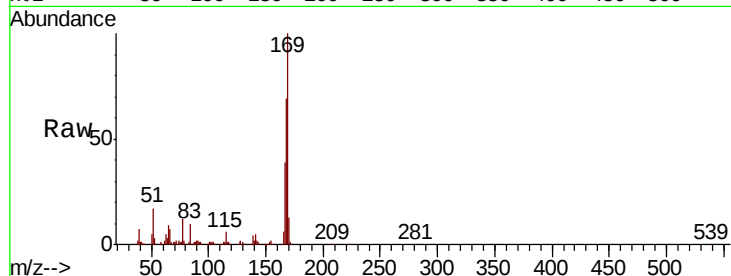




#66  
n-Nitrosodiphenylamine  
Concen: 45.171 ng  
RT: 15.95 min Scan# 2188  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

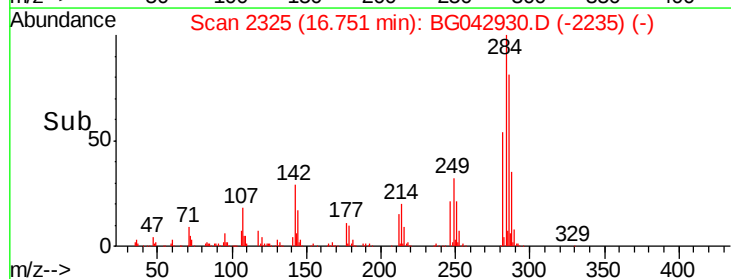
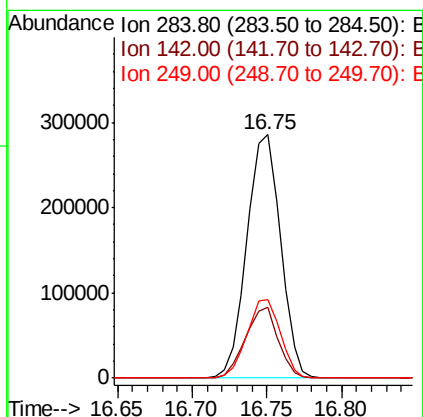
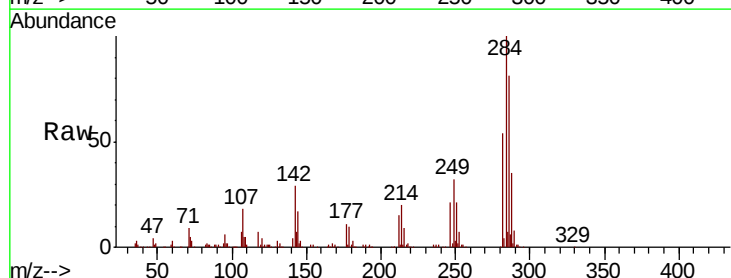
Instrument :  
BNA\_G  
ClientSampleId :

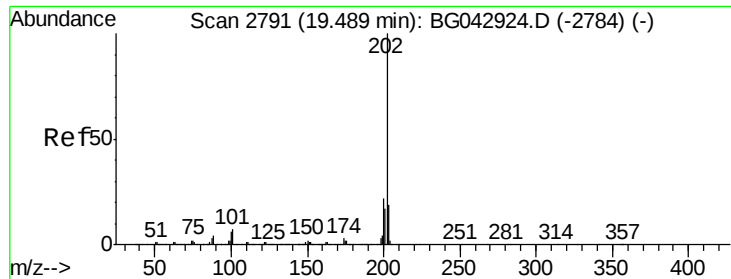
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 69.5  | 54.8  | 82.2  |
| 167     | 38.6  | 30.6  | 46.0  |



#68  
Hexachlorobenzene  
Concen: 93.285 ng  
RT: 16.75 min Scan# 2325  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 29.0  | 21.6  | 32.4  |
| 249     | 32.3  | 24.1  | 36.1  |





#75

Fluoranthene

Concen: 80.223 ng

RT: 19.49 min Scan# 2791

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

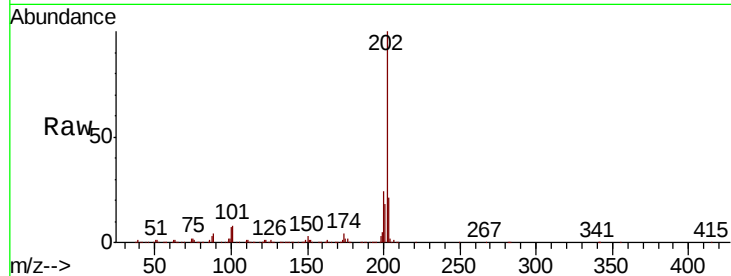
Tot Ion:202 Resp: 1770855

Ion Ratio Lower Upper

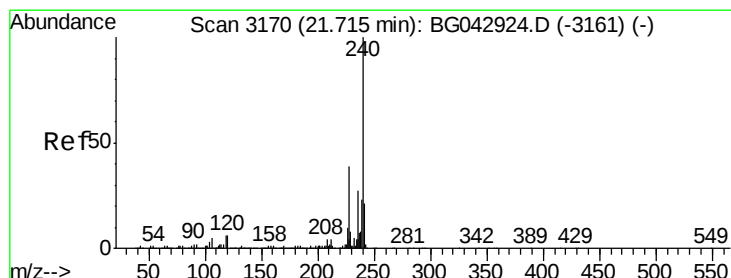
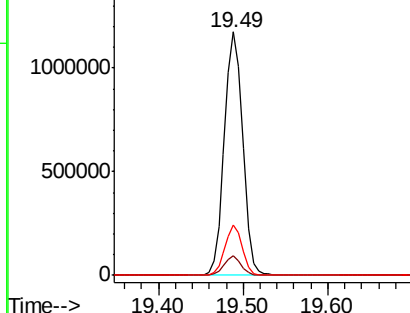
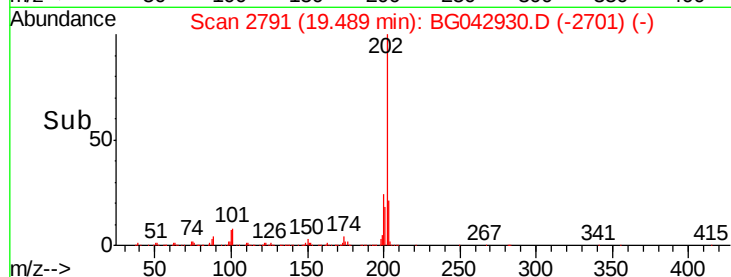
202 100

101 7.9 0.0 27.3

203 20.8 0.0 39.5



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.71 min Scan# 3169

Delta R.T. -0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

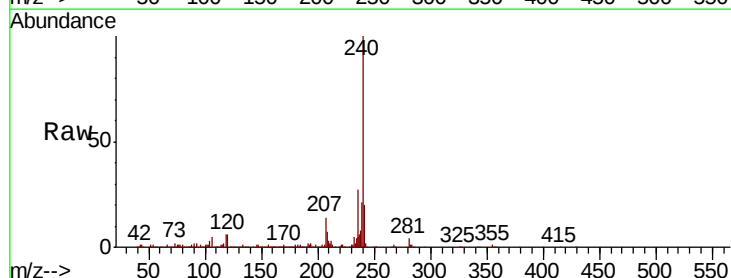
Tgt Ion:240 Resp: 387492

Ion Ratio Lower Upper

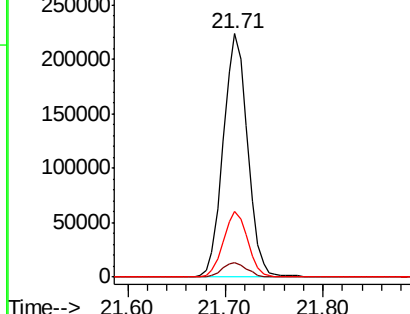
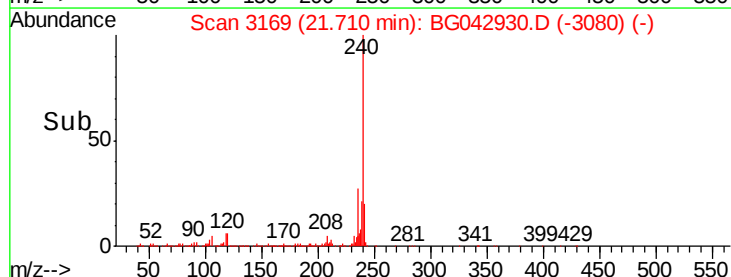
240 100

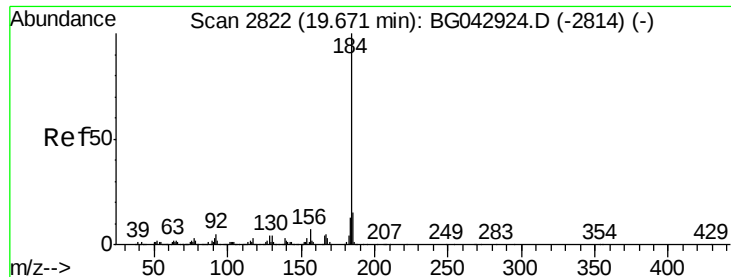
120 6.1 4.8 7.2

236 26.8 21.4 32.0



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#77

Benzidine

Concen: 3.709 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.38 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

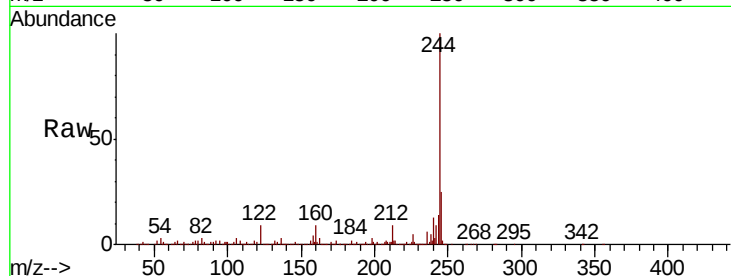
Tot Ion:184 Resp: 35989

Ion Ratio Lower Upper

184 100

185 17.7 11.8 17.8

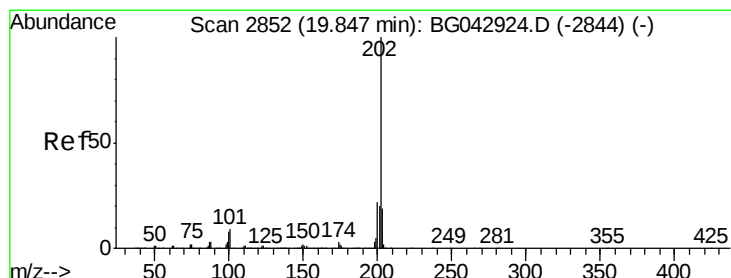
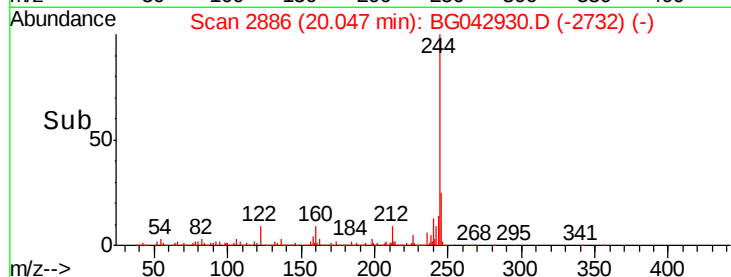
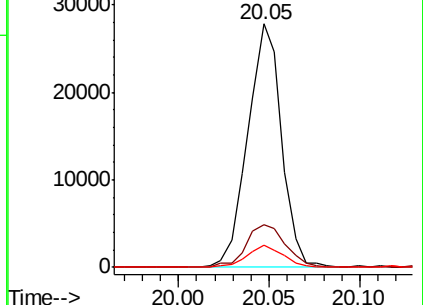
183 9.3 10.1 15.1#



Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 82.157 ng

RT: 19.85 min Scan# 2853

Delta R.T. 0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

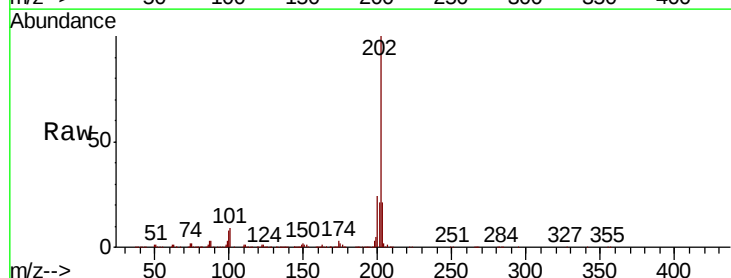
Tgt Ion:202 Resp: 1900110

Ion Ratio Lower Upper

202 100

200 24.1 17.6 26.4

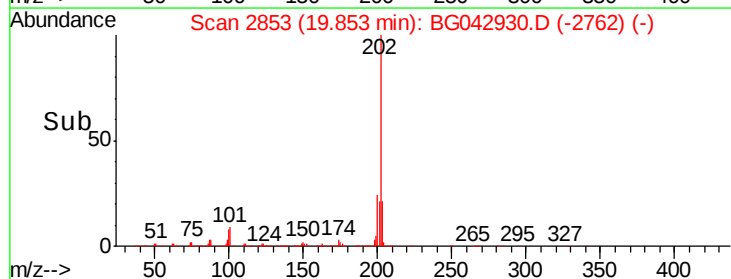
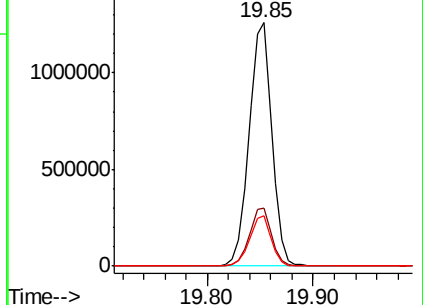
203 20.8 15.2 22.8

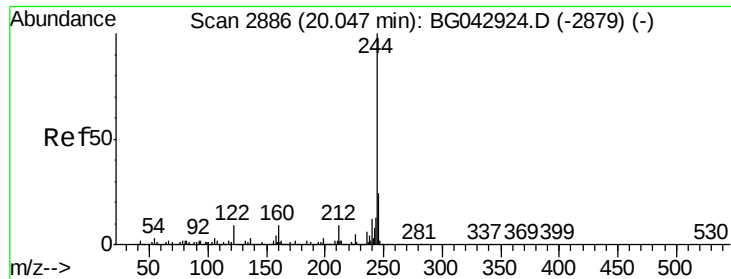


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 118.573 ng

RT: 20.05 min Scan# 2886

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

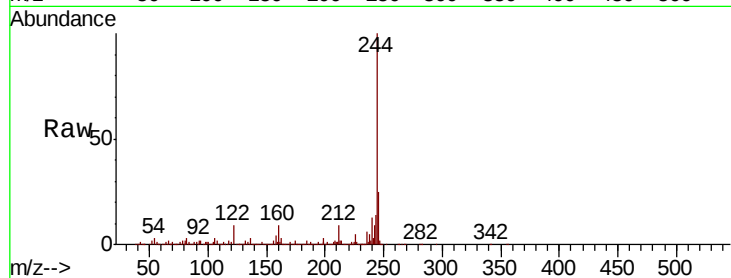
Tot Ion:244 Resp: 2156210

Ion Ratio Lower Upper

244 100

212 9.2 7.4 11.0

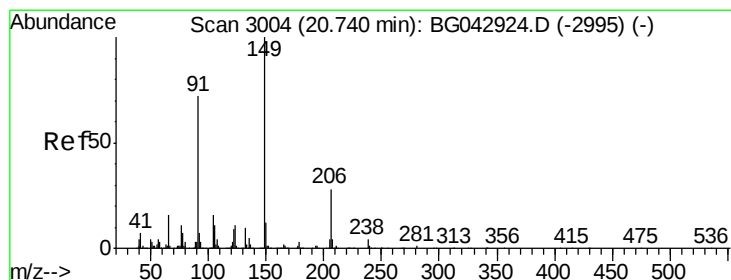
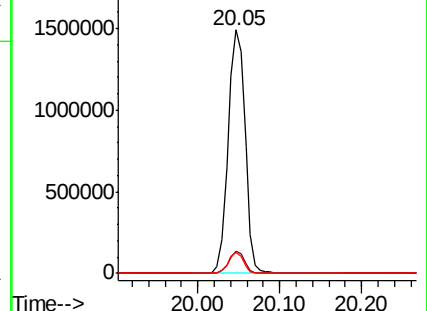
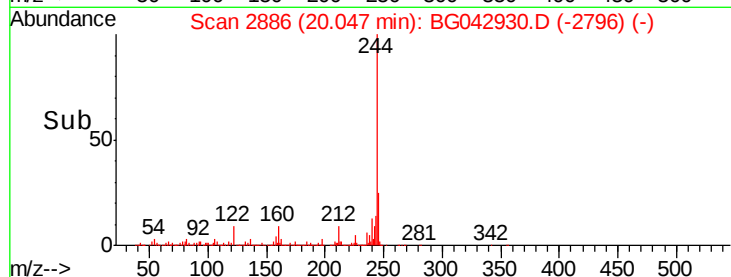
122 8.5 7.0 10.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Butylbenzylphthalate

Concen: 140.017 ng

RT: 20.74 min Scan# 3004

Delta R.T. 0.00 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

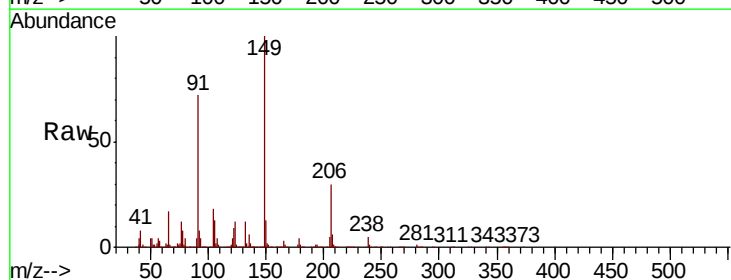
Tgt Ion:149 Resp: 1229185

Ion Ratio Lower Upper

149 100

91 72.4 57.7 86.5

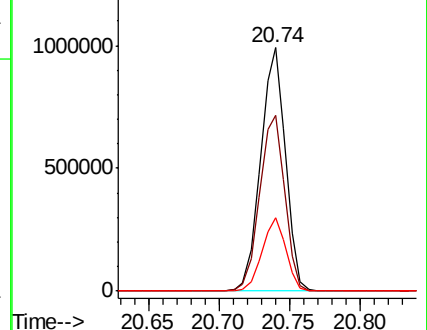
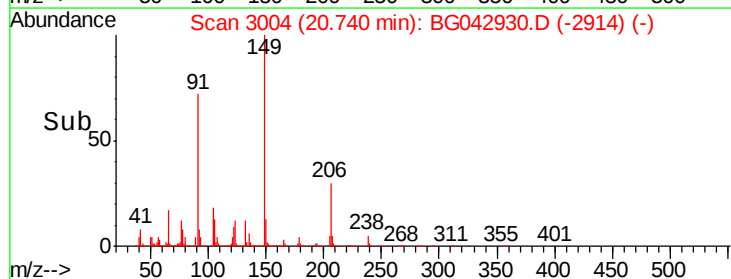
206 30.2 22.6 33.8

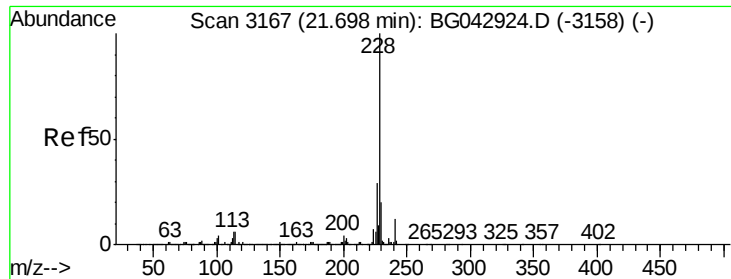


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BG

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 35.540 ng

RT: 21.76 min Scan# 3177

Delta R.T. 0.06 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

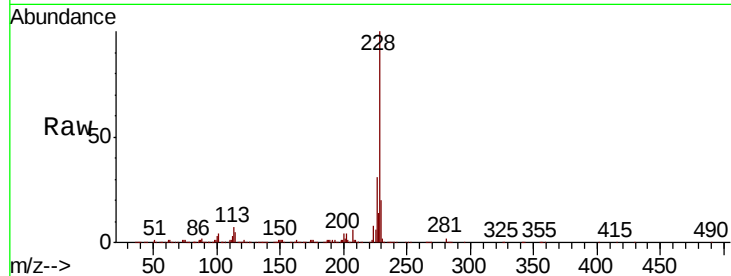
Tot Ion:228 Resp: 858078

Ion Ratio Lower Upper

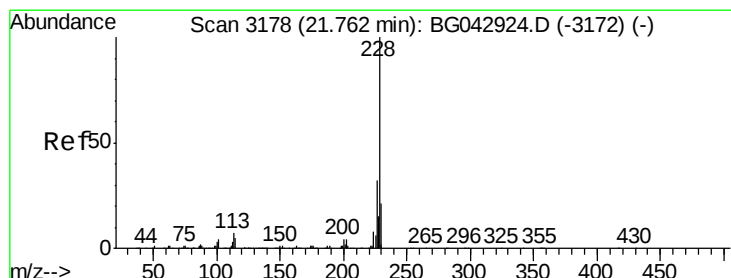
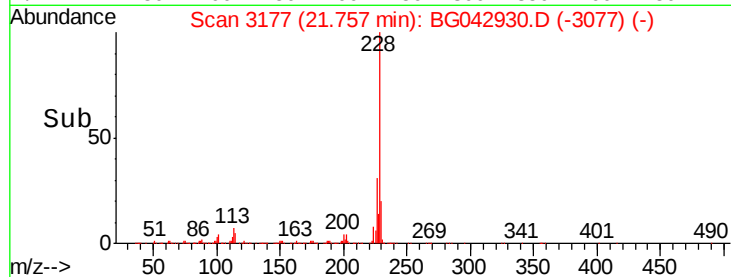
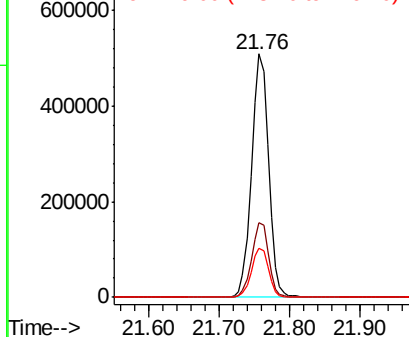
228 100

226 30.9 23.0 34.4

229 20.2 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 36.623 ng

RT: 21.76 min Scan# 3177

Delta R.T. -0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

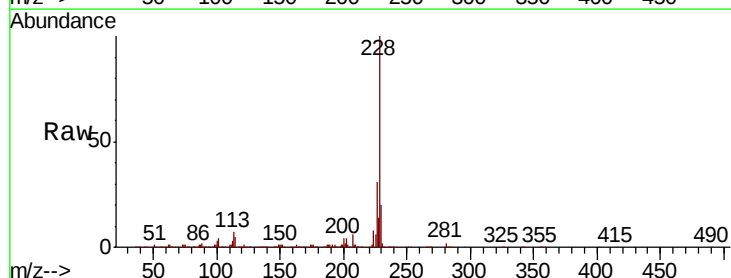
Tgt Ion:228 Resp: 858078

Ion Ratio Lower Upper

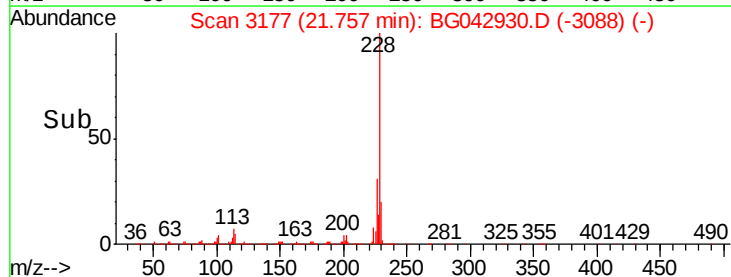
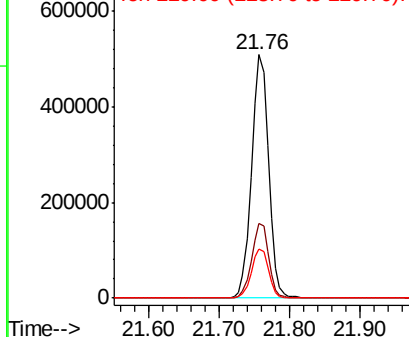
228 100

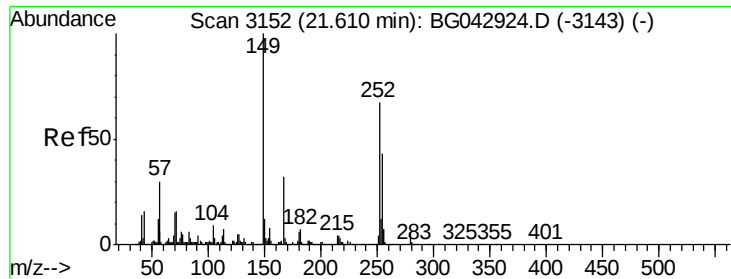
226 30.9 25.6 38.4

229 20.2 16.9 25.3



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#84

Bis(2-ethylhexyl)phthalate

Concen: 60.379 ng

RT: 21.60 min Scan# 3151

Delta R.T. -0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

Instrument :

BNA\_G

ClientSampleId :

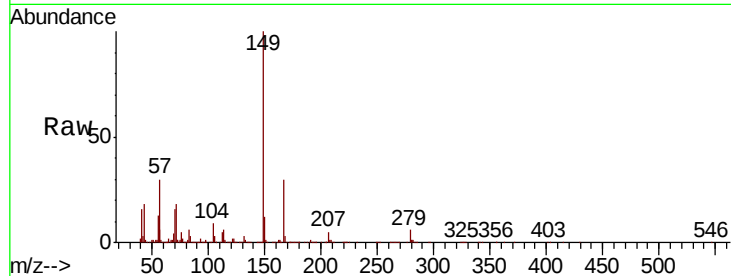
Tot Ion:149 Resp: 754238

Ion Ratio Lower Upper

149 100

167 30.1 25.4 38.2

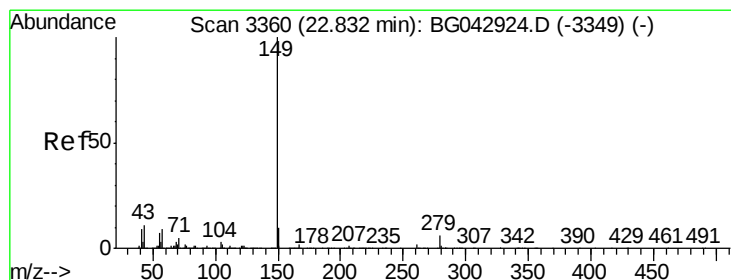
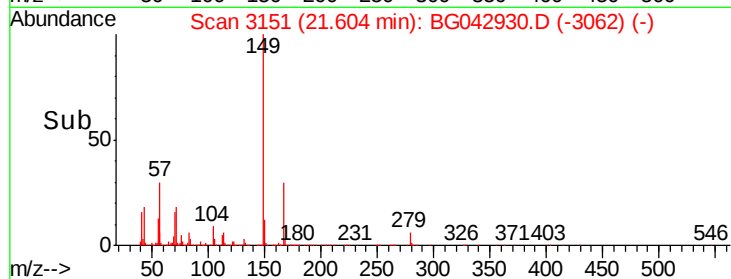
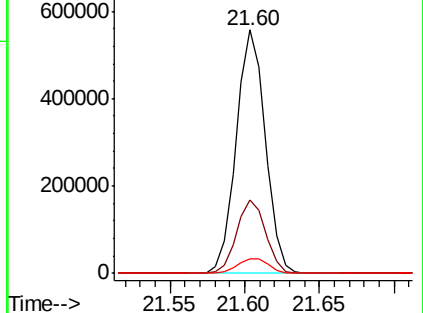
279 6.2 5.1 7.7



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



#85

Di-n-octyl phthalate

Concen: 127.006 ng

RT: 22.83 min Scan# 3359

Delta R.T. -0.01 min

Lab File: BG042930.D

Acq: 25 Sep 2019 16:33

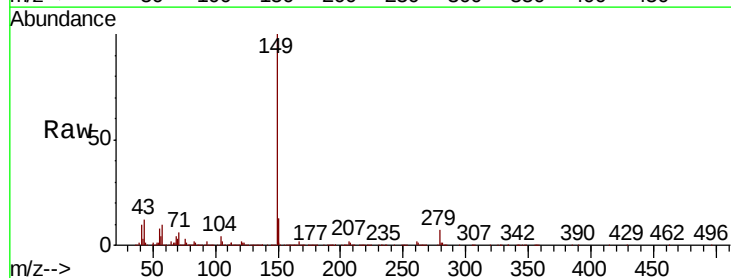
Tgt Ion:149 Resp: 2594293

Ion Ratio Lower Upper

149 100

167 2.0 1.4 2.0

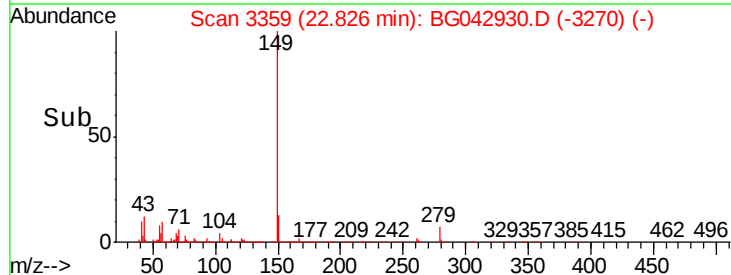
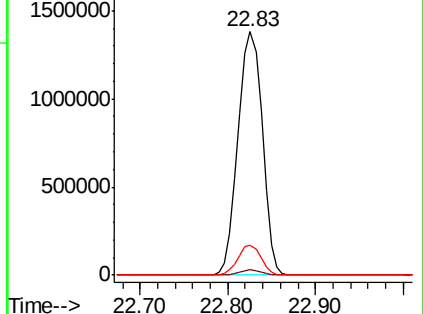
43 11.7 8.7 13.1

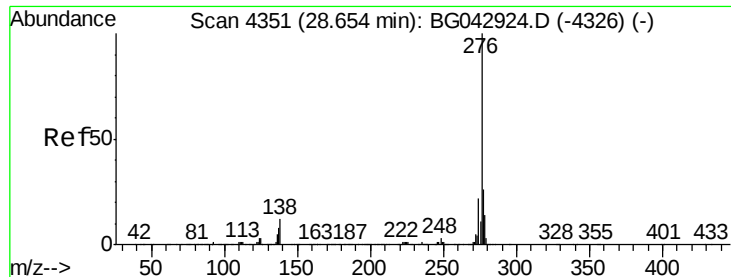


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 43.00 (42.70 to 43.70): BGC



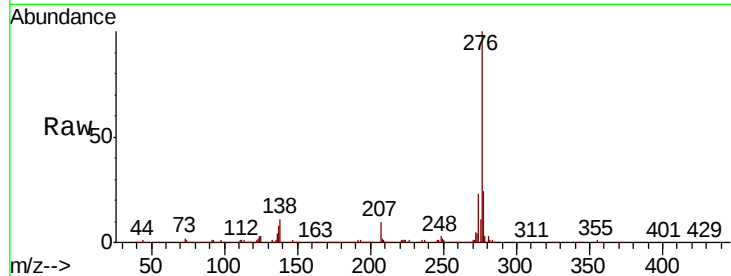


#86

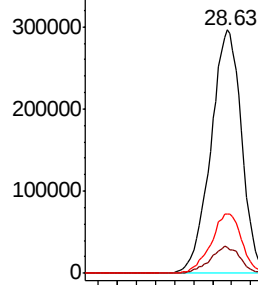
Indeno(1,2,3-cd)pyrene  
Concen: 45.510 ng  
RT: 28.63 min Scan# 4347  
Delta R.T. -0.02 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Instrument :  
BNA\_G  
ClientSampleId :

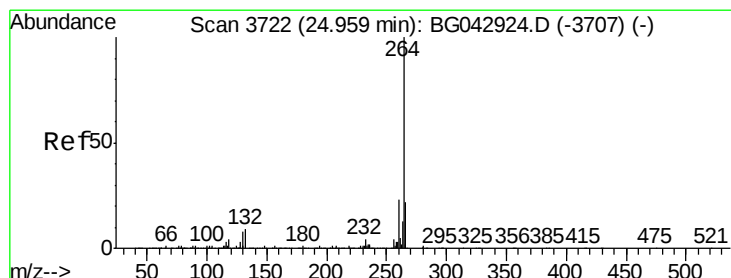
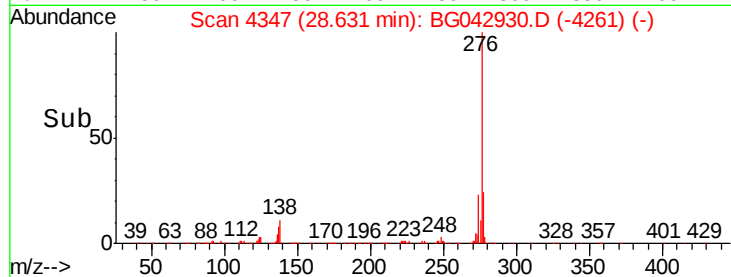
Tot Ion:276 Resp: 1327457  
Ion Ratio Lower Upper  
276 100  
138 10.7 7.0 10.6#  
277 24.3 20.9 31.3



Abundance Ion 276.00 (275.70 to 276.70): E  
400000 Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E



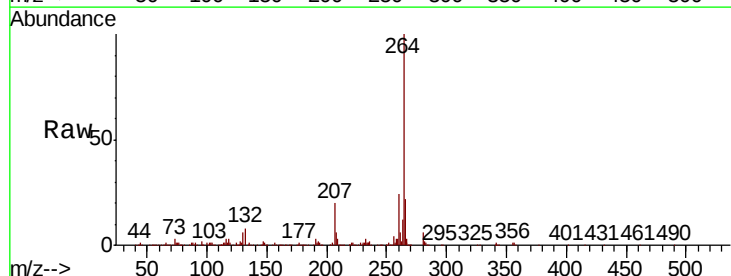
Time--> 28.40 28.60 28.80



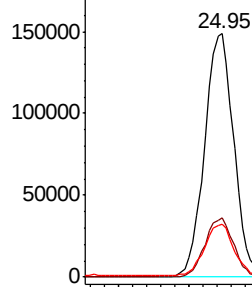
#87

Perylene-d12  
Concen: 20.000 ng  
RT: 24.95 min Scan# 3720  
Delta R.T. -0.01 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

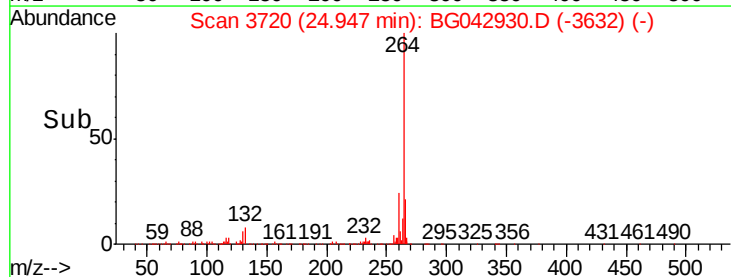
Tgt Ion:264 Resp: 431821  
Ion Ratio Lower Upper  
264 100  
260 24.4 18.7 28.1  
265 22.0 17.7 26.5

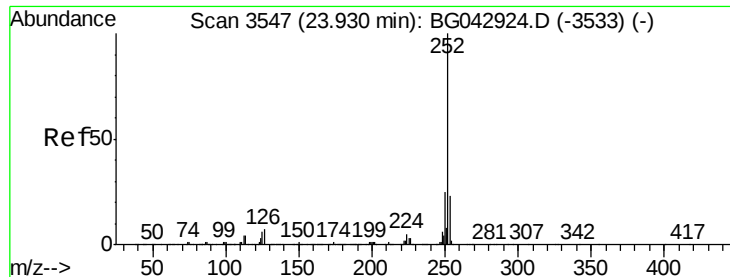


Abundance Ion 264.00 (263.70 to 264.70): E  
200000 Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E



Time--> 24.80 24.90 25.00 25.10

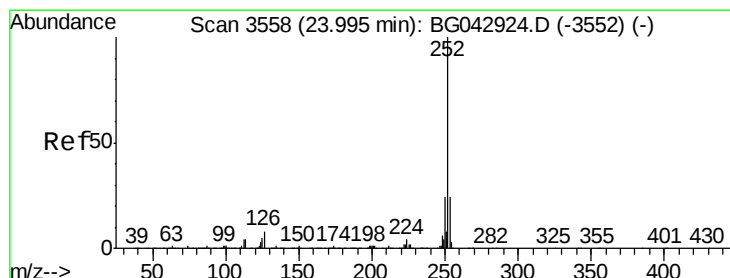
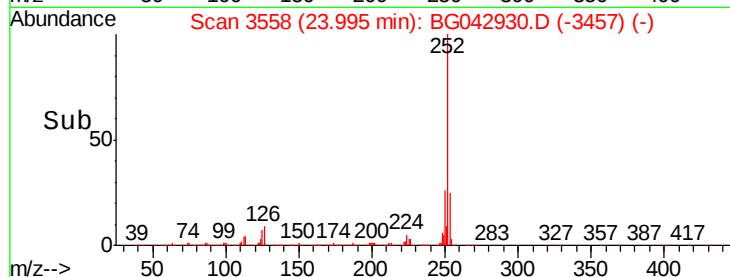
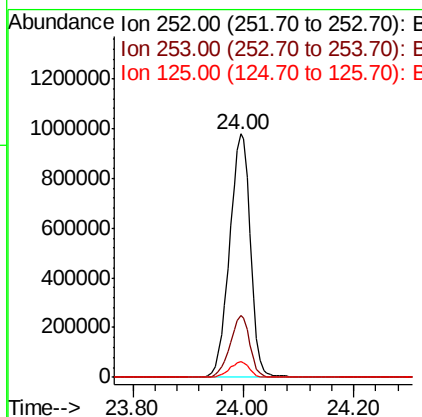
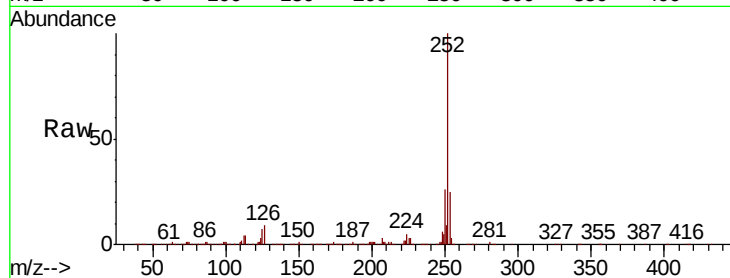




#88  
Benzo(b)fluoranthene  
Concen: 105.995 ng  
RT: 24.00 min Scan# 3558  
Delta R.T. 0.06 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

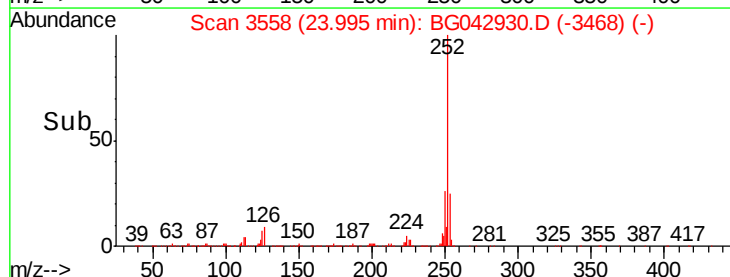
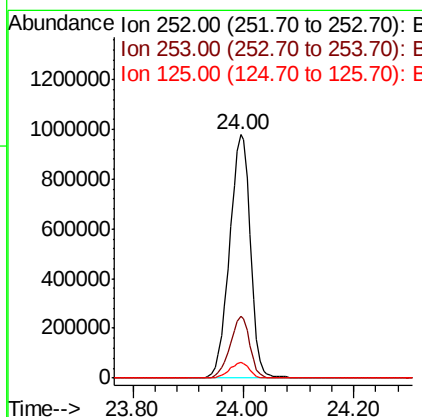
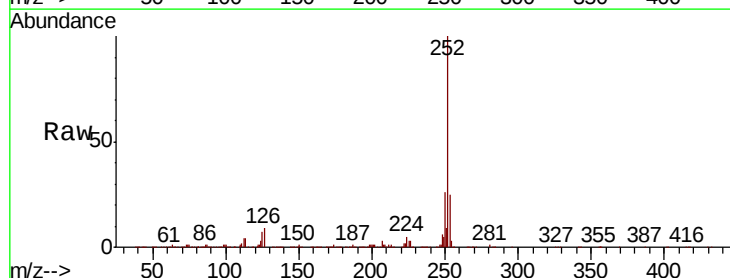
Instrument :  
BNA\_G  
ClientSampleId :

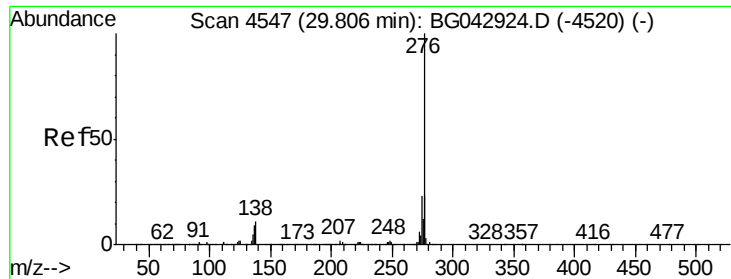
Tot Ion:252 Resp: 2589826  
Ion Ratio Lower Upper  
252 100  
253 25.4 18.2 27.2  
125 6.7 4.6 7.0



#89  
Benzo(k)fluoranthene  
Concen: 107.144 ng  
RT: 24.00 min Scan# 3558  
Delta R.T. 0.00 min  
Lab File: BG042930.D  
Acq: 25 Sep 2019 16:33

Tgt Ion:252 Resp: 2589826  
Ion Ratio Lower Upper  
252 100  
253 25.4 18.9 28.3  
125 6.7 4.5 6.7#





#92  
 Benzo(a,h,i)perylene  
 Concen: 77.883 ng  
 RT: 29.79 min Scan# 4545  
 Delta R.T. -0.01 min  
 Lab File: BG042930.D  
 Acq: 25 Sep 2019 16:33

Instrument :  
 BNA\_G  
 ClientSampleId :

Tot Ion:276 Resp: 1783789  
 Ion Ratio Lower Upper  
 276 100  
 277 24.7 18.4 27.6  
 138 11.9 8.6 12.8

