

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG100719\  
 Data File : BG043071.D  
 Acq On : 7 Oct 2019 17:15  
 Operator : JU  
 Sample : K5140-04MS  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

Manual Integrations  
 APPROVED

mohammad  
 10/8/2019 12:22:47 PM

Quant Time: Oct 08 02:28:33 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 | 8.06  | 152  | 47743    | 20.00 | ng    | -0.02    |
| 21) Naphthalene-d8        | 10.86 | 136  | 177276   | 20.00 | ng    | -0.02    |
| 39) Acenaphthene-d10      | 14.68 | 164  | 54428    | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 17.42 | 188  | 331378   | 20.00 | ng    | -0.02    |
| 76) Chrysene-d12          | 21.69 | 240  | 222071   | 20.00 | ng    | -0.02    |
| 87) Perylene-d12          | 24.91 | 264  | 865      | 20.00 | ng    | -0.05    |

|                             |       |     |         |        |    |       |
|-----------------------------|-------|-----|---------|--------|----|-------|
| System Monitoring Compounds |       |     |         |        |    |       |
| 5) 2-Fluorophenol           | 5.65  | 112 | 396223  | 148.11 | ng | -0.01 |
| 7) Phenol-d6                | 7.23  | 99  | 334676  | 86.87  | ng | -0.01 |
| 23) Nitrobenzene-d5         | 9.22  | 82  | 356985  | 97.88  | ng | -0.02 |
| 42) 2,4,6-Tribromophenol    | 16.17 | 330 | 400267  | 427.67 | ng | -0.01 |
| 45) 2-Fluorobiphenyl        | 13.31 | 172 | 906901  | 241.55 | ng | -0.02 |
| 79) Terphenyl-d14           | 20.03 | 244 | 1935600 | 185.73 | ng | -0.02 |

|                                |       |     |        |         |        |      |
|--------------------------------|-------|-----|--------|---------|--------|------|
| Target Compounds               |       |     |        |         | Qvalue |      |
| 2) 1,4-Dioxane                 | 3.55  | 88  | 43591  | 39.081  | ng     | # 50 |
| 4) n-Nitrosodimethylamine      | 3.85  | 42  | 50536  | 33.498  | ng     | # 79 |
| 8) 2-Chlorophenol              | 7.63  | 128 | 150142 | 53.816  | ng     | 95   |
| 9) Benzaldehyde                | 7.20  | 77  | 46401  | 19.710  | ng     | # 84 |
| 10) Phenol                     | 7.26  | 94  | 134616 | 38.086  | ng     | 95   |
| 11) bis(2-Chloroethyl)ether    | 7.48  | 93  | 125704 | 45.965  | ng     | 93   |
| 12) 1,3-Dichlorobenzene        | 7.95  | 146 | 153092 | 43.015  | ng     | 95   |
| 13) 1,4-Dichlorobenzene        | 8.10  | 146 | 159056 | 44.830  | ng     | 98   |
| 14) 1,2-Dichlorobenzene        | 8.41  | 146 | 156904 | 46.451  | ng     | 92   |
| 16) 2,2'-oxybis(1-Chloropropan | 8.58  | 45  | 186328 | 35.477  | ng     | 91   |
| 17) 2-Methylphenol             | 8.51  | 107 | 76204  | 30.812  | ng     | 98   |
| 18) Hexachloroethane           | 9.14  | 117 | 58196  | 43.553  | ng     | 94   |
| 19) n-Nitroso-di-n-propylamine | 8.86  | 70  | 135976 | 53.753  | ng     | 92   |
| 20) 3+4-Methylphenols          | 8.83  | 107 | 111170 | 32.801  | ng     | 96   |
| 22) Acetophenone               | 8.88  | 105 | 235329 | 51.499  | ng     | # 96 |
| 24) Nitrobenzene               | 9.26  | 77  | 175383 | 50.413  | ng     | 97   |
| 25) Isophorone                 | 9.78  | 82  | 398246 | 62.162  | ng     | 96   |
| 26) 2-Nitrophenol              | 9.97  | 139 | 90411  | 61.048  | ng     | 93   |
| 27) 2,4-Dimethylphenol         | 10.04 | 122 | 94194  | 41.415  | ng     | 97   |
| 28) bis(2-Chloroethoxy)methane | 10.27 | 93  | 16903  | 4.650   | ng     | # 94 |
| 29) 2,4-Dichlorophenol         | 10.51 | 162 | 176303 | 62.328  | ng     | 99   |
| 30) 1,2,4-Trichlorobenzene     | 10.72 | 180 | 177313 | 48.541  | ng     | 99   |
| 31) Naphthalene                | 10.91 | 128 | 463477 | 53.111  | ng     | 99   |
| 32) Benzoic acid               | 10.19 | 122 | 116120 | 61.984  | ng     | 98   |
| 34) Hexachlorobutadiene        | 11.20 | 225 | 123984 | 45.331  | ng     | 98   |
| 35) Caprolactam                | 11.90 | 113 | 59298m | 59.446  | ng     |      |
| 36) 4-Chloro-3-methylphenol    | 12.14 | 107 | 152448 | 49.568  | ng     | 97   |
| 37) 2-Methylnaphthalene        | 12.51 | 142 | 356707 | 53.581  | ng     | 94   |
| 38) 1-Methylnaphthalene        | 12.73 | 142 | 335476 | 53.255  | ng     | 99   |
| 40) 1,2,4,5-Tetrachlorobenzene | 12.88 | 216 | 230960 | 112.859 | ng     | 98   |
| 41) Hexachlorocyclopentadiene  | 12.86 | 237 | 294919 | 226.181 | ng     | 95   |
| 43) 2,4,6-Trichlorophenol      | 13.12 | 196 | 162478 | 135.648 | ng     | 96   |
| 44) 2,4,5-Trichlorophenol      | 13.19 | 196 | 180483 | 146.269 | ng     | 98   |
| 46) 1,1'-Biphenyl              | 13.51 | 154 | 496780 | 120.358 | ng     | 98   |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_G\DATA\BG100719\  
 Data File : BG043071.D  
 Acq On : 7 Oct 2019 17:15  
 Operator : JU  
 Sample : K5140-04MS  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

Manual Integrations  
 APPROVED

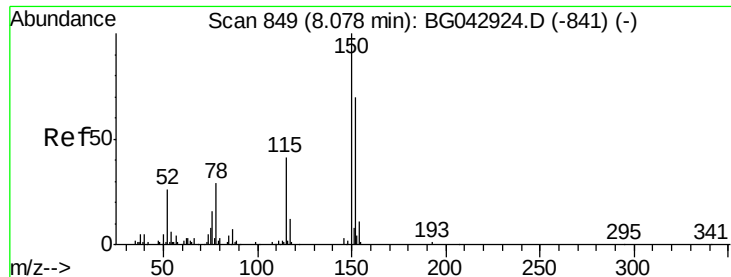
mohammad  
 10/8/2019 12:22:47 PM

Quant Time: Oct 08 02:28:33 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) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 47) 2-Chloronaphthalene        | 13.56 | 162  | 390825   | 126.293   | ng    | 99       |
| 48) 2-Nitroaniline             | 13.78 | 65   | 47923    | 46.568    | ng    | # 88     |
| 49) Acenaphthylene             | 14.40 | 152  | 100552   | 21.235    | ng    | 99       |
| 50) Dimethylphthalate          | 14.14 | 163  | 610495   | 149.701   | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 14.25 | 165  | 130295   | 150.030   | ng    | 93       |
| 52) Acenaphthene               | 14.74 | 154  | 174936   | 55.193    | ng    | 99       |
| 54) 2,4-Dinitrophenol          | 14.79 | 184  | 187261   | 346.896   | ng    | 94       |
| 55) Dibenzofuran               | 15.08 | 168  | 641004   | 136.716   | ng    | 98       |
| 56) 4-Nitrophenol              | 14.91 | 139  | 184375   | 269.616   | ng    | 95       |
| 57) 2,4-Dinitrotoluene         | 15.04 | 165  | 198152   | 155.808   | ng    | 99       |
| 58) Fluorene                   | 15.73 | 166  | 512083   | 127.927   | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol  | 15.31 | 232  | 187644   | 142.825   | ng    | 98       |
| 60) Diethylphthalate           | 15.49 | 149  | 528273   | 127.286   | ng    | 97       |
| 61) 4-Chlorophenyl-phenylether | 15.72 | 204  | 316583   | 131.871   | ng    | 99       |
| 62) 4-Nitroaniline             | 15.79 | 138  | 26032m   | 26.595    | ng    |          |
| 63) Azobenzene                 | 16.01 | 77   | 44876    | 11.877    | ng    | 97       |
| 65) 4,6-Dinitro-2-methylphenol | 15.80 | 198  | 132310   | 70.560    | ng    | 91       |
| 67) 4-Bromophenyl-phenylether  | 16.61 | 248  | 226307   | 54.412    | ng    | 95       |
| 68) Hexachlorobenzene          | 16.73 | 284  | 260194   | 56.186    | ng    | 96       |
| 70) Pentachlorophenol          | 17.08 | 266  | 346991   | 129.855   | ng    | 99       |
| 71) Phenanthrene               | 17.47 | 178  | 902455   | 55.783    | ng    | 98       |
| 72) Anthracene                 | 17.56 | 178  | 659836   | 40.855    | ng    | 99       |
| 74) Di-n-butylphthalate        | 18.38 | 149  | 925198   | 51.776    | ng    | 99       |
| 75) Fluoranthene               | 19.47 | 202  | 851709   | 39.803    | ng    | 98       |
| 78) Pyrene                     | 19.83 | 202  | 230357   | 17.379    | ng    | 96       |
| 80) Butylbenzylphthalate       | 20.72 | 149  | 39216    | 7.795     | ng    | 93       |
| 81) Benzo(a)anthracene         | 21.67 | 228  | 683949   | 49.429    | ng    | 98       |
| 83) Chrysene                   | 21.74 | 228  | 912507   | 67.956    | ng    | 99       |
| 84) Bis(2-ethylhexyl)phthalate | 21.58 | 149  | 643342   | 89.866    | ng    | 95       |
| 85) Di-n-octyl phthalate       | 22.79 | 149  | 1035837  | 88.485    | ng    | 96       |
| 86) Indeno(1,2,3-cd)pyrene     | 28.63 | 276  | 205636   | 12.301    | ng    | # 91     |
| 88) Benzo(b)fluoranthene       | 23.88 | 252  | 683957   | 13974.290 | ng    | 99       |
| 89) Benzo(k)fluoranthene       | 23.95 | 252  | 187272   | 3867.729  | ng    | 99       |
| 90) Benzo(a)pyrene             | 24.75 | 252  | 200625   | 4344.714  | ng    | # 98     |
| 91) Dibenzo(a,h)anthracene     | 28.63 | 278  | 566768   | 11969.612 | ng    | 98       |
| 92) Benzo(g,h,i)perylene       | 29.71 | 276  | 158077   | 3445.529  | ng    | 97       |

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





#1

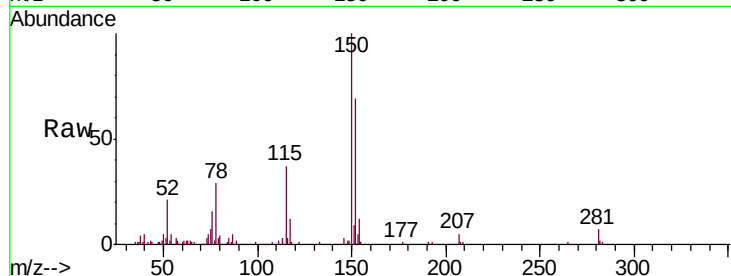
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.06 min Scan# 846  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

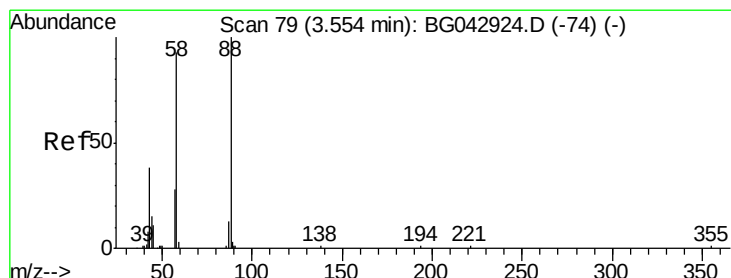
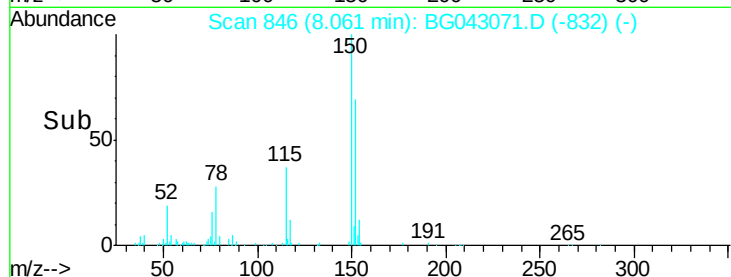
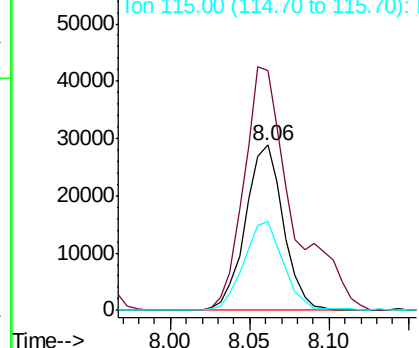
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 145.2 | 115.0 | 172.4 |
| 115     | 53.3  | 47.0  | 70.6  |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



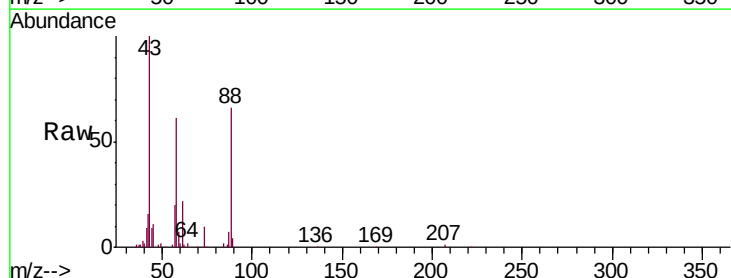
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



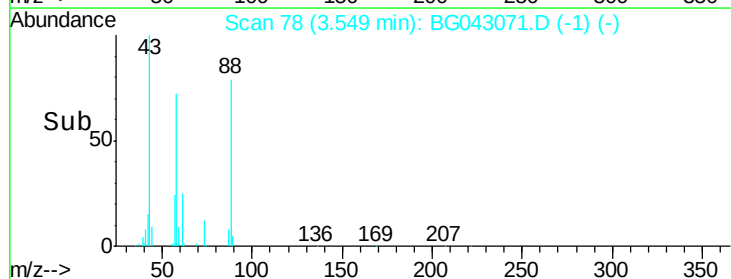
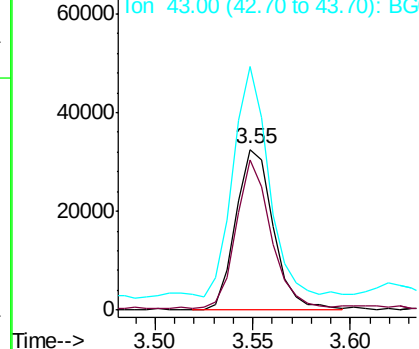
#2

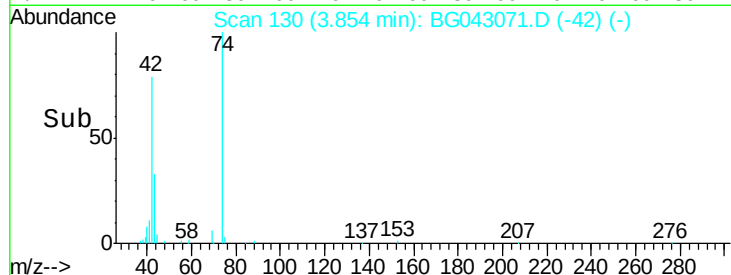
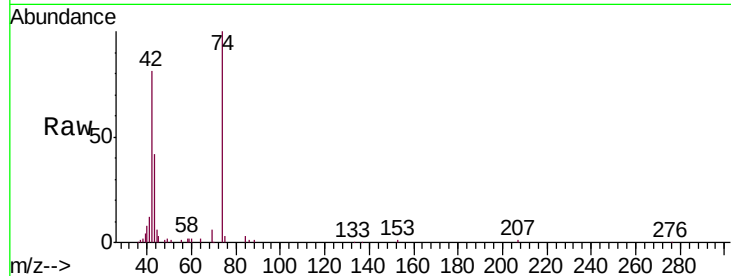
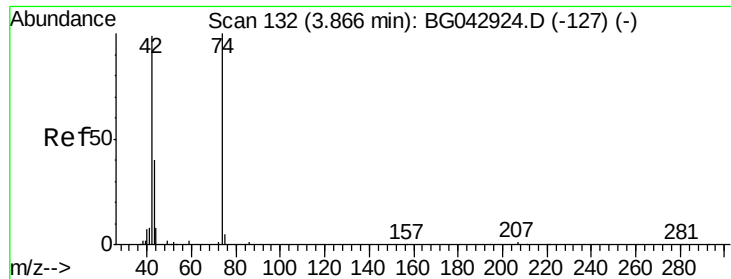
1,4-Dioxane  
Concen: 39.081 ng  
RT: 3.55 min Scan# 78  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 58      | 85.8  | 74.3  | 111.5 |
| 43      | 130.7 | 29.8  | 44.8# |



Abundance Ion 88.00 (87.70 to 88.70): BGC  
Ion 58.00 (57.70 to 58.70): BGC  
Ion 43.00 (42.70 to 43.70): BGC





#4

n-Nitrosodimethylamine

Concen: 33.498 ng

RT: 3.85 min Scan# 130

Delta R.T. -0.01 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 42      | 100   |       |        |
| 74      | 123.2 | 80.5  | 120.7# |
| 44      | 7.4   | 6.9   | 10.3   |

Instrument :

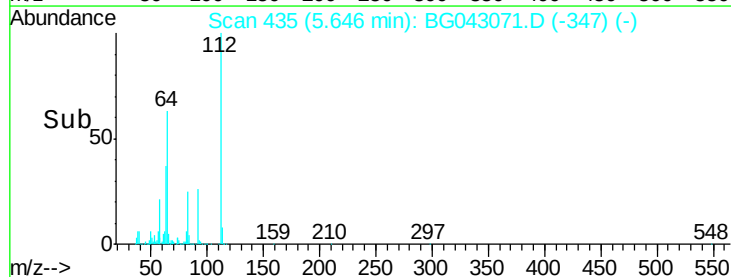
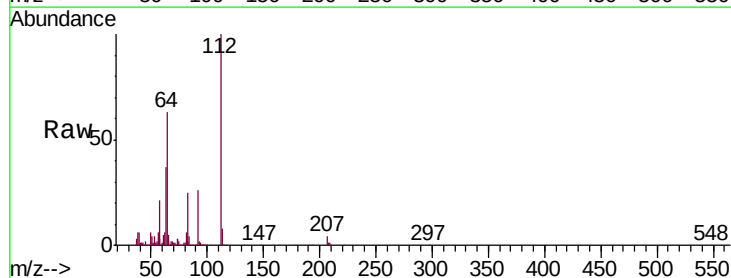
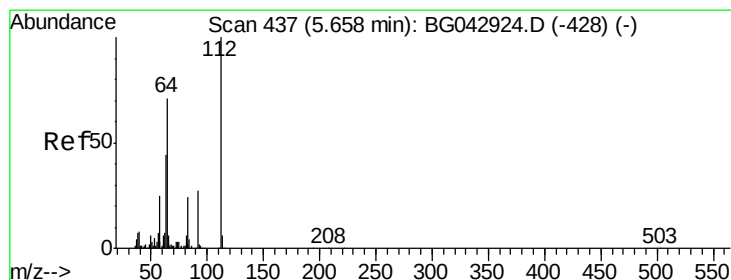
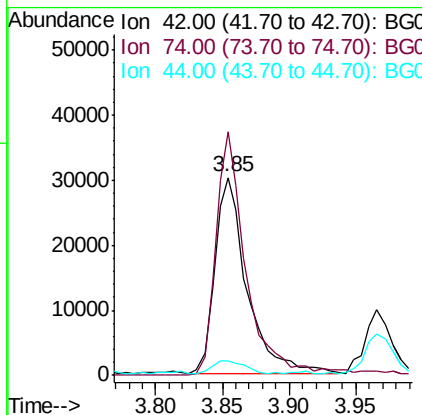
BNA\_G

ClientSampleId :

HR-05-100219MS

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#5

2-Fluorophenol

Concen: 148.107 ng

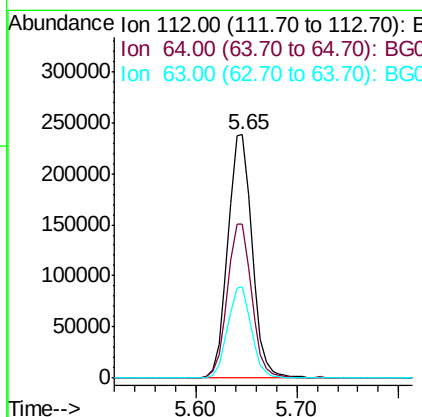
RT: 5.65 min Scan# 435

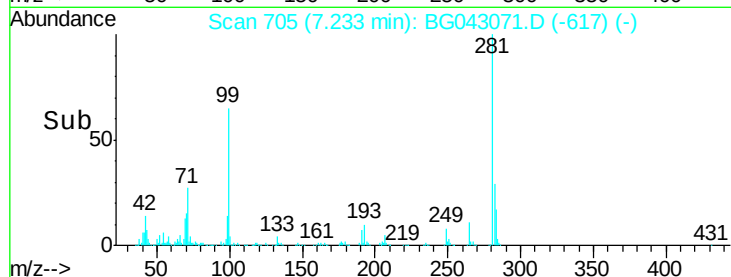
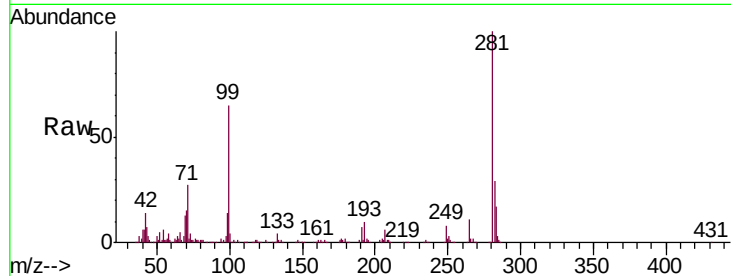
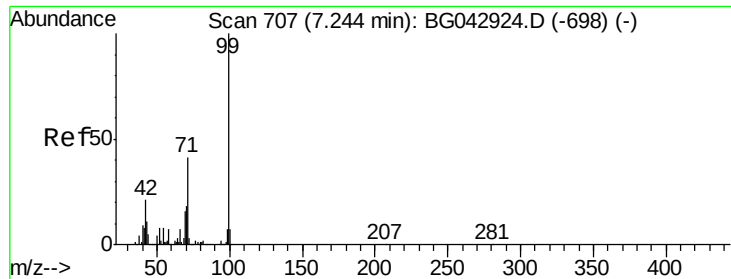
Delta R.T. -0.01 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 63.2  | 56.6  | 84.8  |
| 63      | 37.4  | 35.1  | 52.7  |





#7

Phenol-d6

Concen: 86.872 ng

RT: 7.23 min Scan# 705

Delta R.T. -0.01 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 334676 |       |       |
| 42      | 21.5 | 17.2  | 25.8   |       |       |
| 71      | 40.8 | 33.1  | 49.7   |       |       |

Instrument :

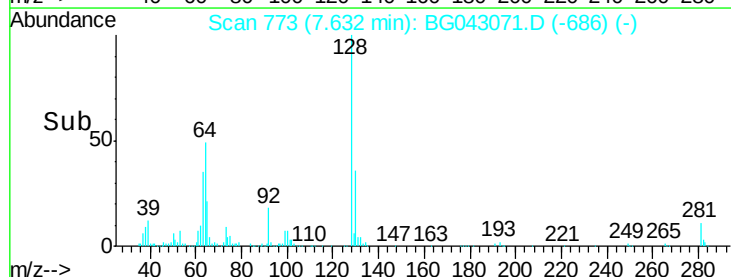
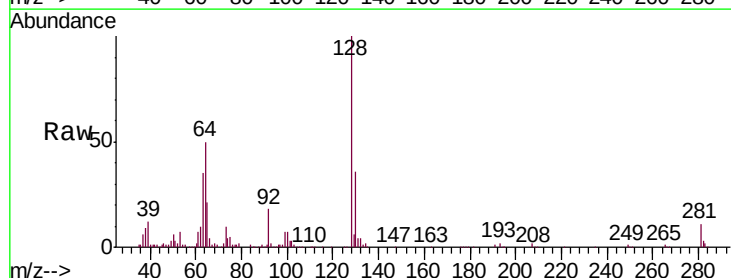
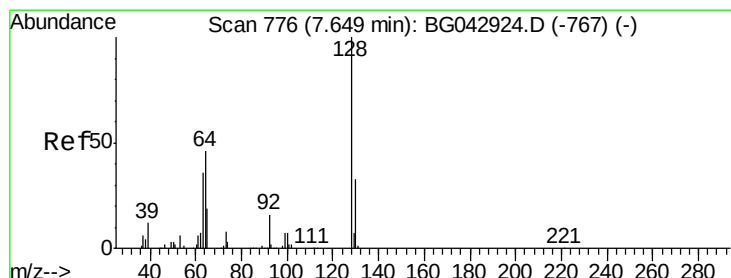
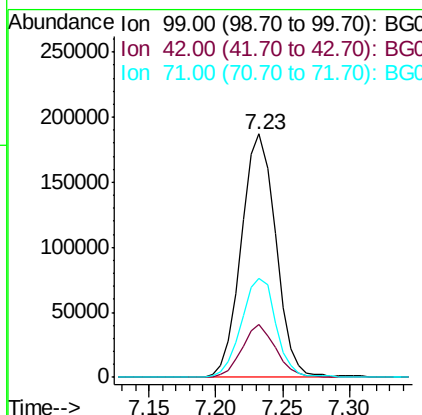
BNA\_G

ClientSampleId :

HR-05-100219MS

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#8

2-Chlorophenol

Concen: 53.816 ng

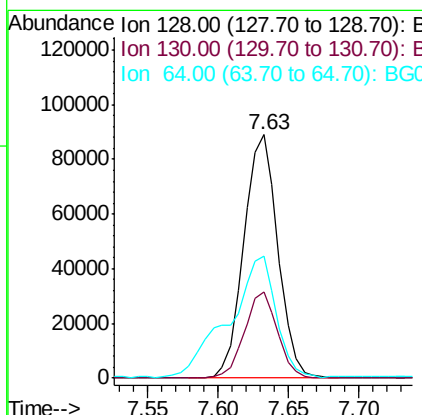
RT: 7.63 min Scan# 773

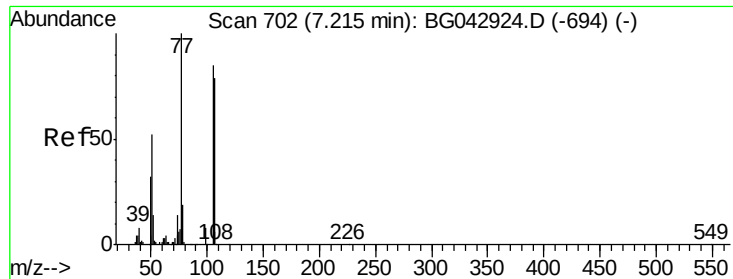
Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 128     | 100  |       | 150142 |       |       |
| 130     | 35.6 | 12.5  | 52.5   |       |       |
| 64      | 50.0 | 32.8  | 72.8   |       |       |





#9

Benzaldehyde

Concen: 19.710 ng

RT: 7.20 min Scan# 699

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

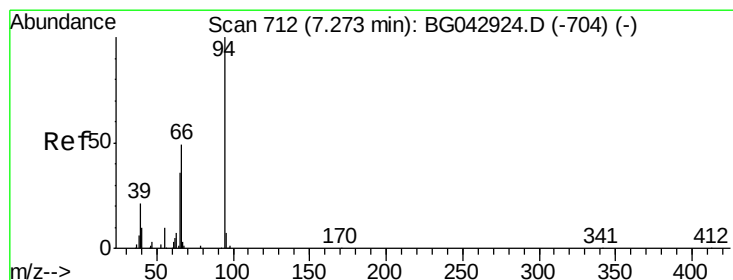
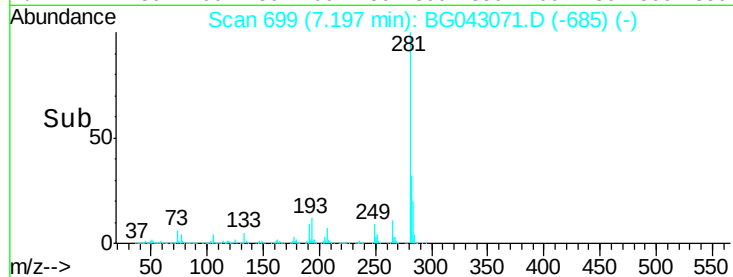
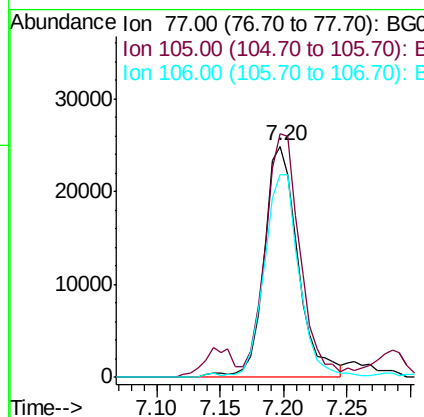
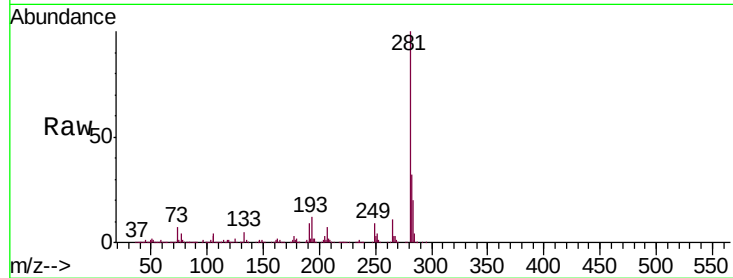
ClientSampleId :

HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 77      | 100   |       |        |
| 105     | 105.4 | 64.6  | 104.6# |
| 106     | 87.5  | 59.4  | 99.4   |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#10

Phenol

Concen: 38.086 ng

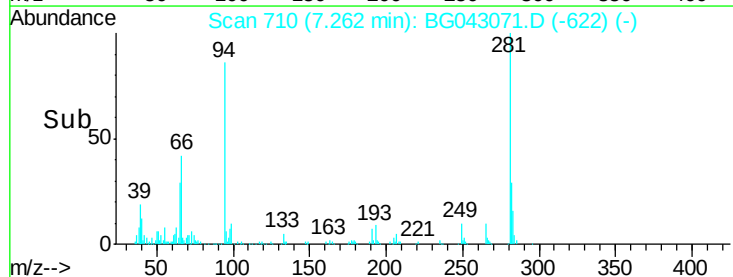
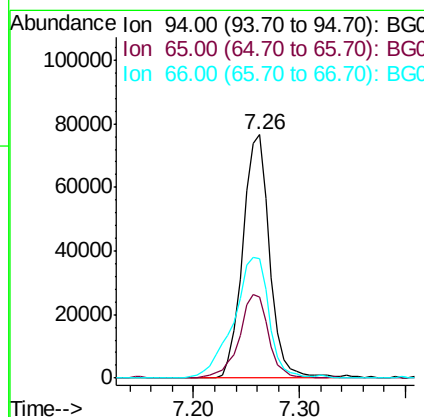
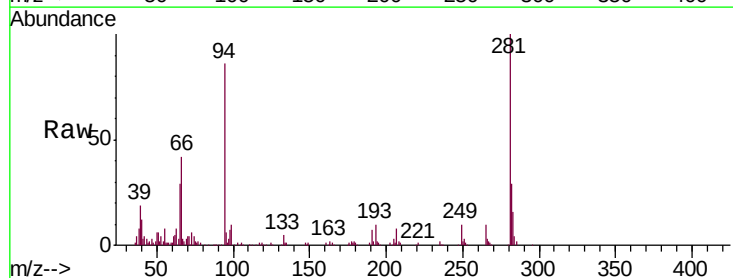
RT: 7.26 min Scan# 710

Delta R.T. -0.01 min

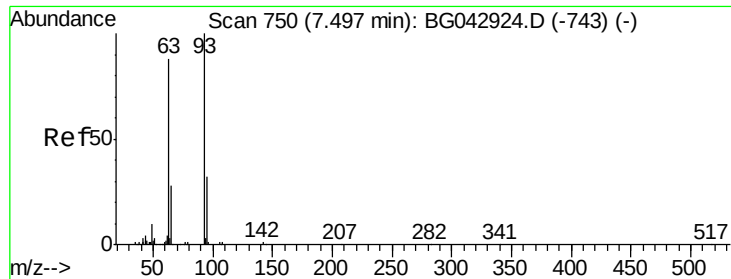
Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 33.6  | 16.6  | 56.6  |
| 66      | 49.2  | 32.4  | 72.4  |







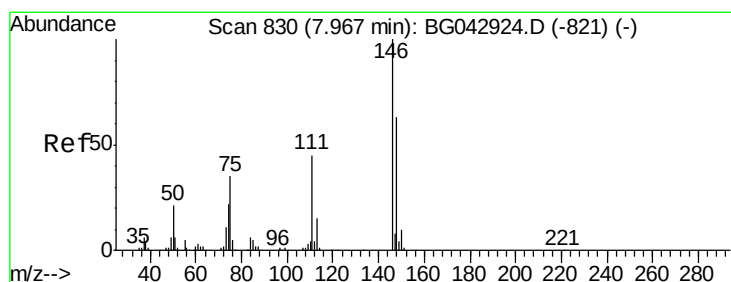
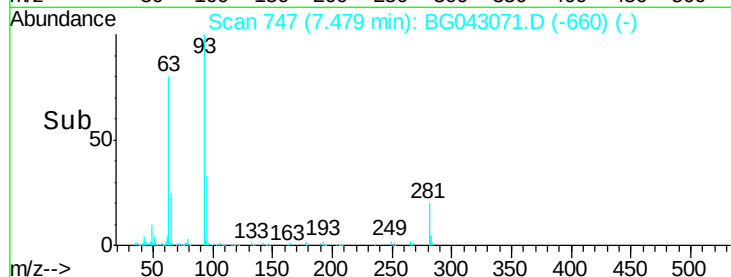
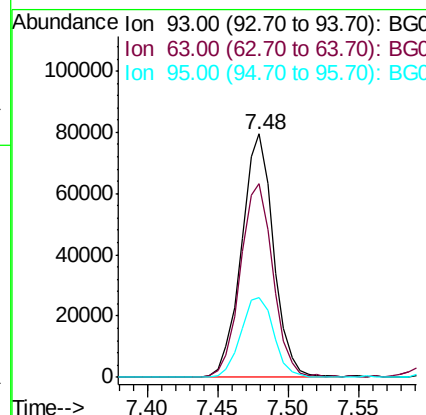
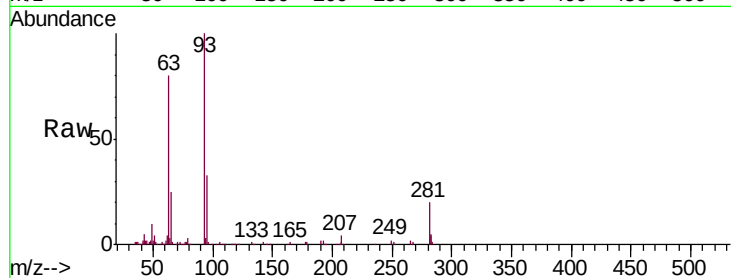
#11  
bis(2-Chloroethyl)ether  
Concen: 45.965 ng  
RT: 7.48 min Scan# 747  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 79.6  | 67.4  | 107.4 |
| 95      | 32.6  | 11.9  | 51.9  |

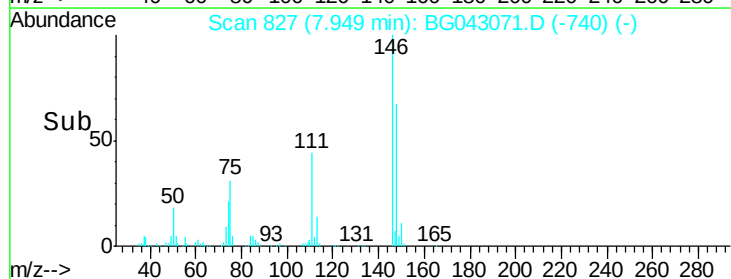
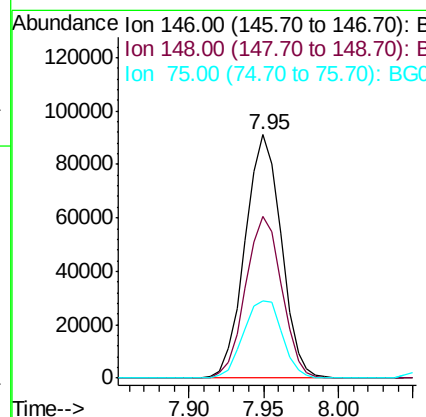
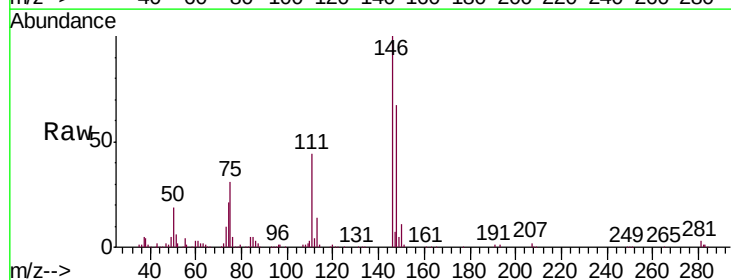
Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM

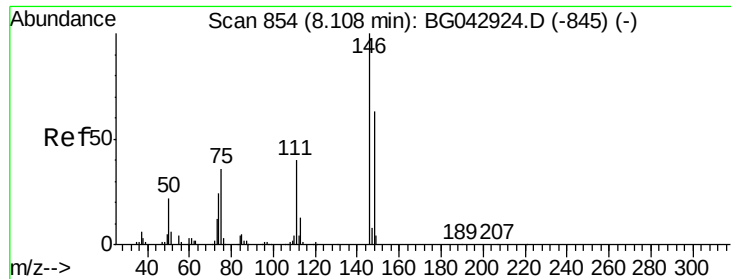


#12  
1,3-Dichlorobenzene  
Concen: 43.015 ng  
RT: 7.95 min Scan# 827  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 66.7  | 50.7  | 76.1  |
| 75      | 31.5  | 27.7  | 41.5  |







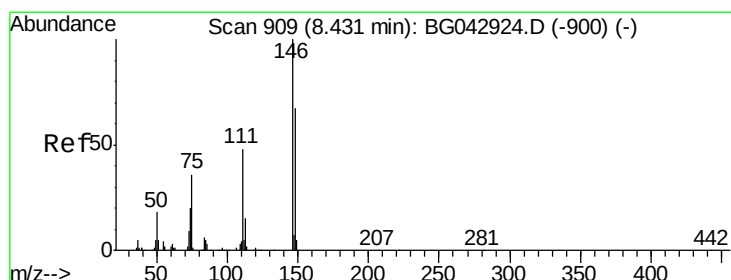
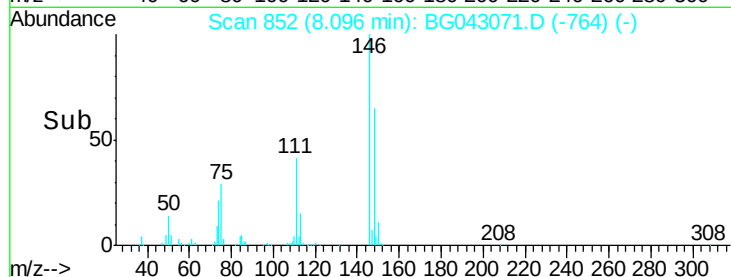
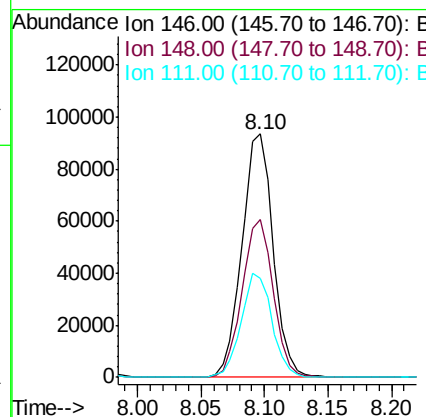
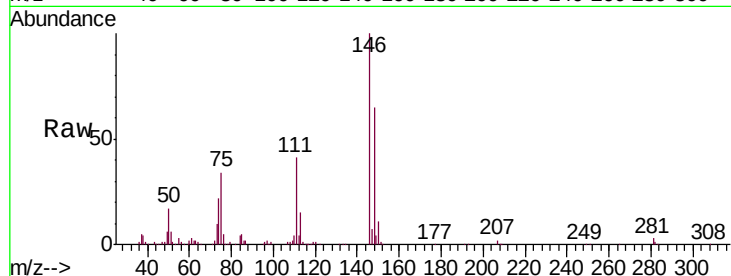
#13  
 1,4-Dichlorobenzene  
 Concen: 44.830 ng  
 RT: 8.10 min Scan# 852  
 Delta R.T. -0.01 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 64.9  | 50.9  | 76.3  |
| 111     | 40.6  | 31.8  | 47.8  |

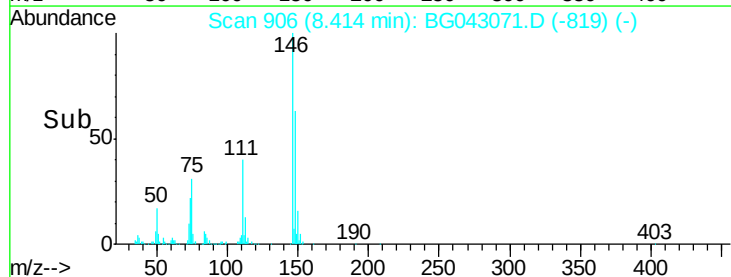
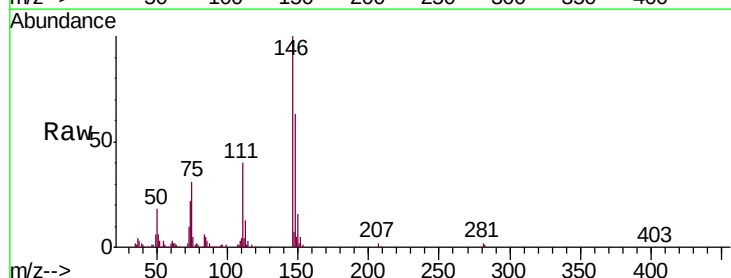
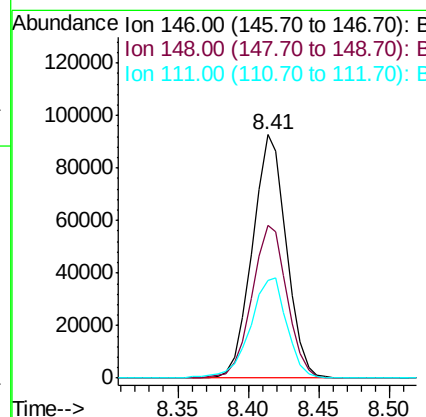
Manual Integrations  
 APPROVED

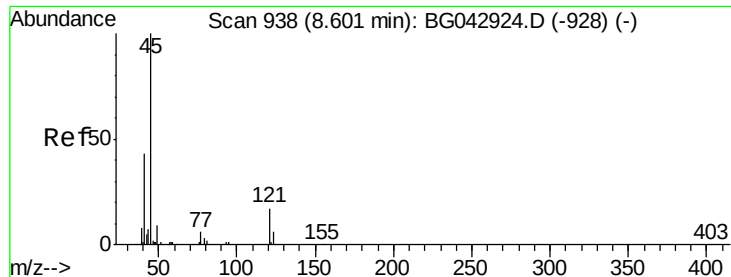
mohammad  
 10/8/2019 12:22:47 PM



#14  
 1,2-Dichlorobenzene  
 Concen: 46.451 ng  
 RT: 8.41 min Scan# 906  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 148     | 62.6  | 53.4  | 80.2  |
| 111     | 40.3  | 38.5  | 57.7  |





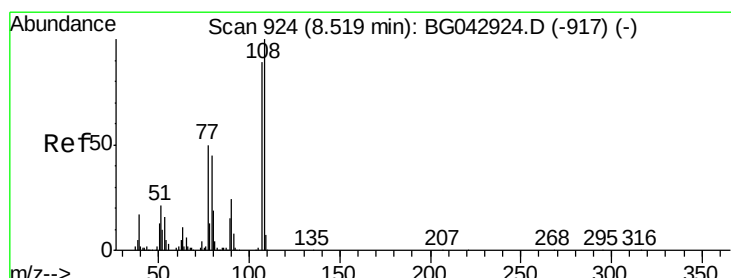
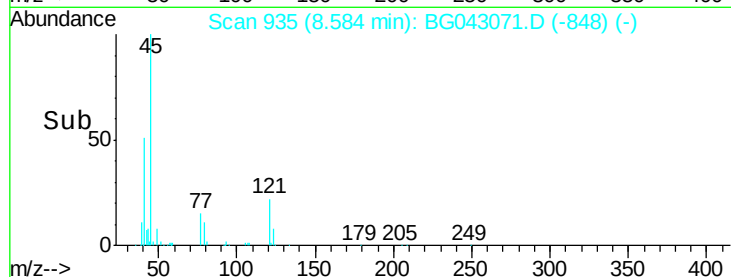
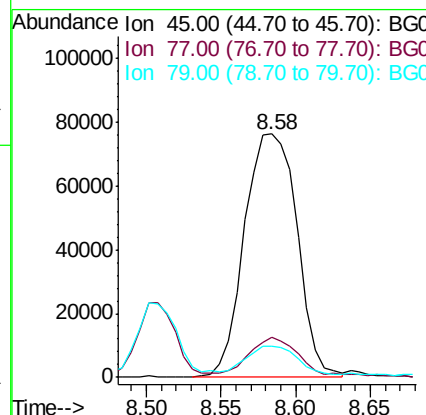
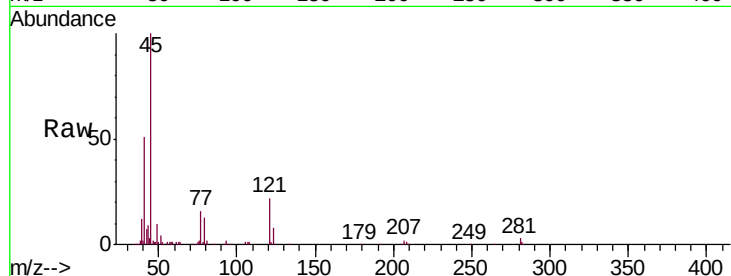
#16  
2,2'-oxybis(1-Chloropropane)  
Concen: 35.477 ng  
RT: 8.58 min Scan# 935  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 45      | 100   |            |            |
| 77      | 16.2  | 0.0        | 32.8       |
| 79      | 12.6  | 0.0        | 29.4       |

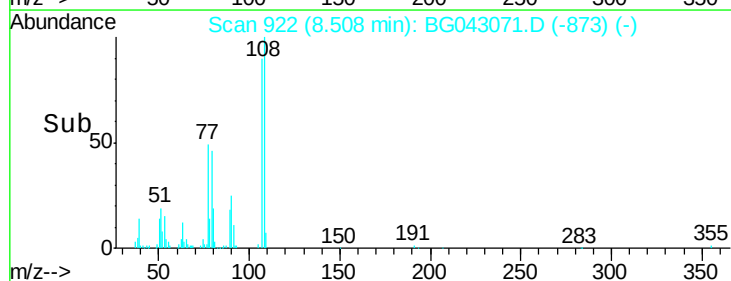
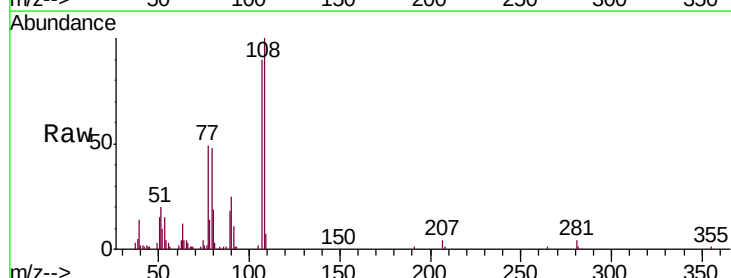
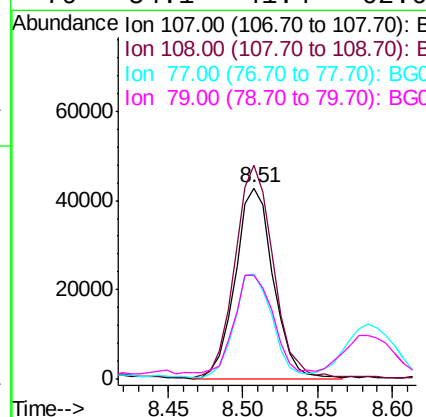
Manual Integrations  
APPROVED

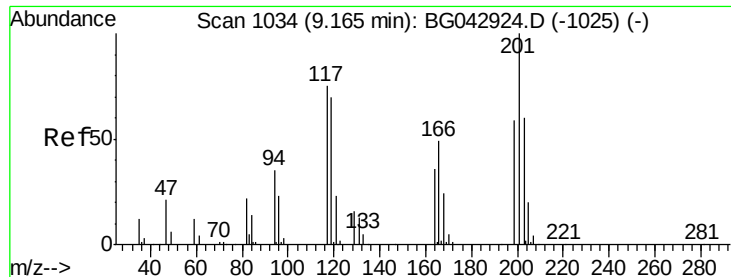
mohammad  
10/8/2019 12:22:47 PM



#17  
2-Methylphenol  
Concen: 30.812 ng  
RT: 8.51 min Scan# 922  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 107     | 100   |            |            |
| 108     | 111.7 | 89.9       | 134.9      |
| 77      | 54.8  | 45.4       | 68.2       |
| 79      | 54.1  | 41.4       | 62.0       |





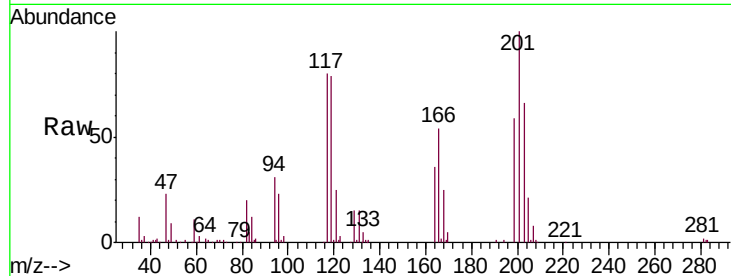
#18  
Hexachloroethane  
Concen: 43.553 ng  
RT: 9.14 min Scan# 1030  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

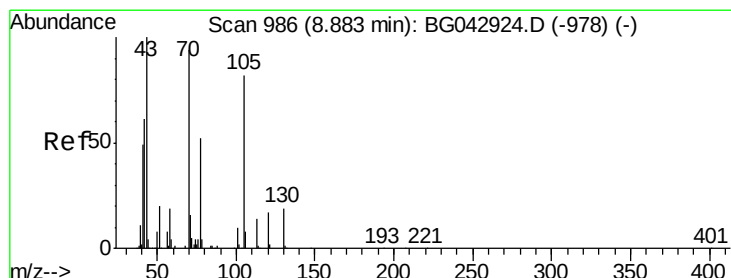
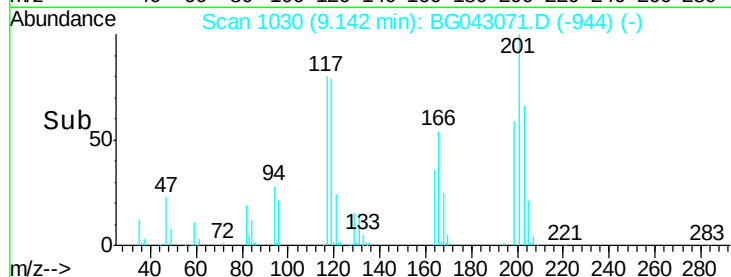
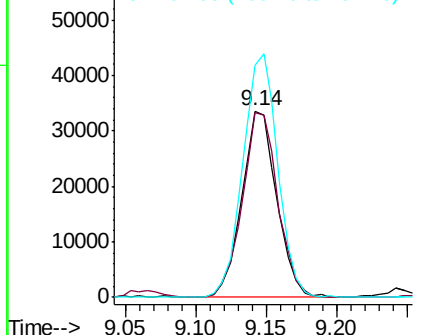
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 119     | 99.0  | 74.6  | 111.8 |
| 201     | 124.8 | 106.0 | 159.0 |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



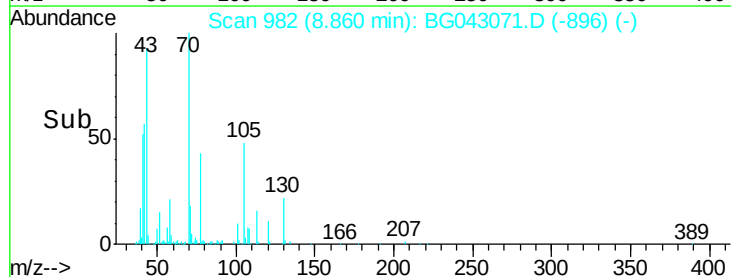
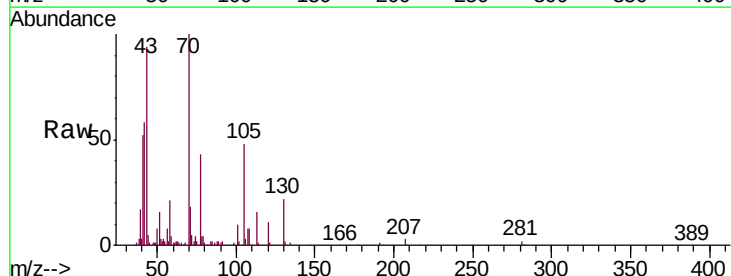
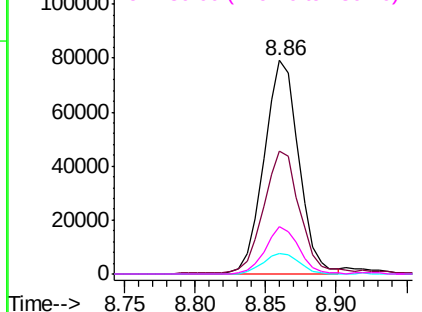
Abundance Ion 117.00 (116.70 to 117.70): E  
Ion 119.00 (118.70 to 119.70): E  
Ion 201.00 (200.70 to 201.70): E

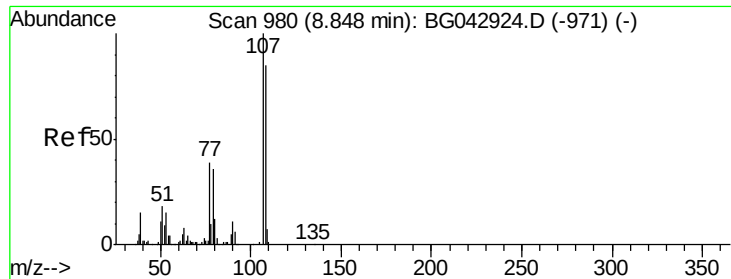


#19  
n-Nitroso-di-n-propylamine  
Concen: 53.753 ng  
RT: 8.86 min Scan# 982  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 70      | 100   |       |       |
| 42      | 57.8  | 52.6  | 79.0  |
| 101     | 9.8   | 8.7   | 13.1  |
| 130     | 22.0  | 15.8  | 23.8  |

Abundance Ion 70.00 (69.70 to 70.70): BGC  
Ion 42.00 (41.70 to 42.70): BGC  
Ion 101.00 (100.70 to 101.70): BGC  
Ion 130.00 (129.70 to 130.70): BGC





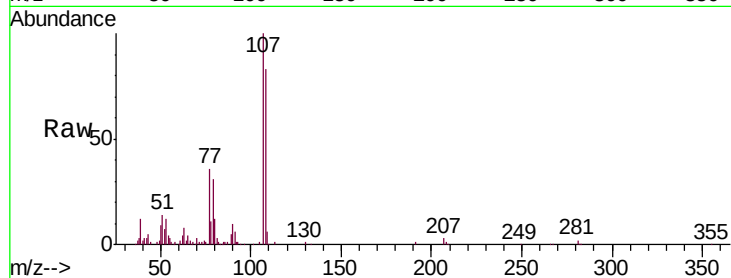
#20  
3+4-Methylphenols  
Concen: 32.801 ng  
RT: 8.83 min Scan# 977  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

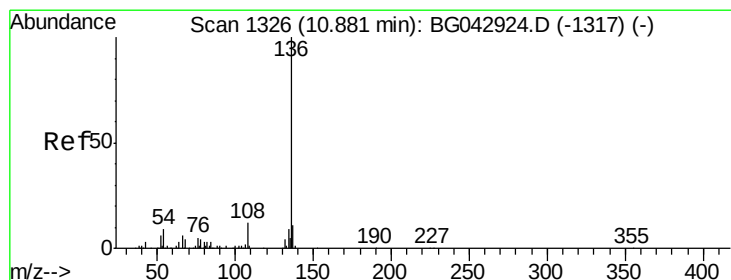
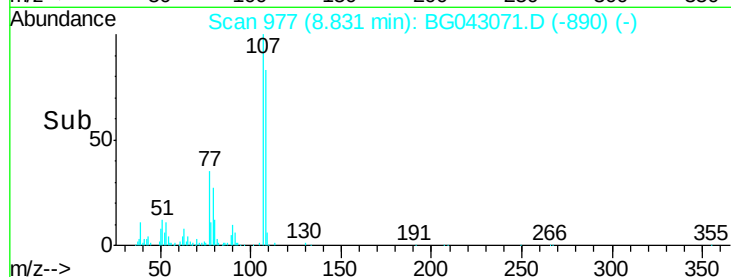
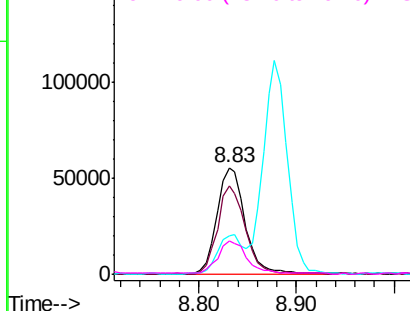
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 107     | 100   | 111170 |       |       |
| 108     | 83.3  | 64.9   | 104.9 |       |
| 77      | 35.7  | 19.4   | 59.4  |       |
| 79      | 30.8  | 16.2   | 56.2  |       |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



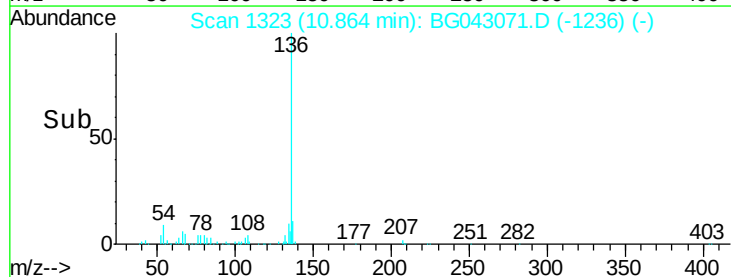
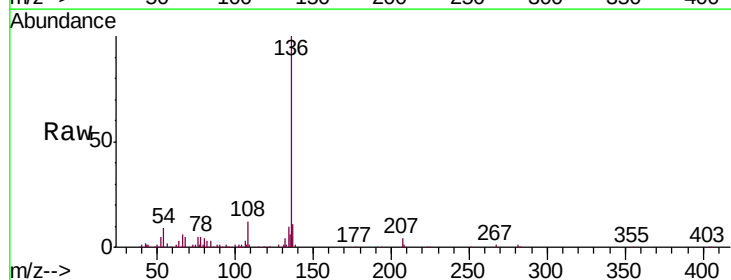
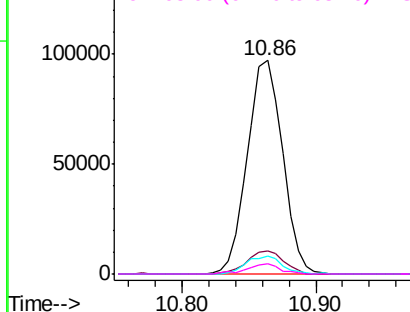
Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 108.00 (107.70 to 108.70): E  
Ion 77.00 (76.70 to 77.70): BG  
Ion 79.00 (78.70 to 79.70): BG

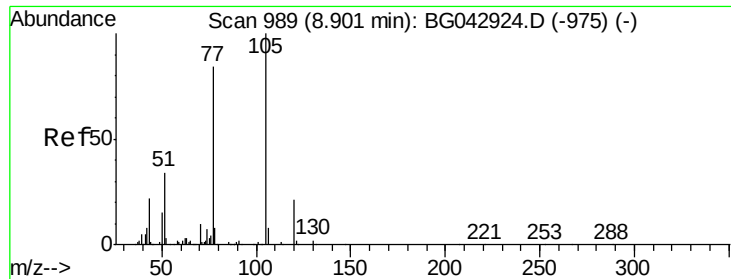


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.86 min Scan# 1323  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 177276 |       |       |
| 137     | 11.0  | 8.5    | 12.7  |       |
| 54      | 8.5   | 7.4    | 11.2  |       |
| 68      | 4.6   | 3.6    | 5.4   |       |

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





#22

Acetophenone

Concen: 51.499 ng

RT: 8.88 min Scan# 985

Delta R.T. -0.02 min

Lab File: BG043071.D

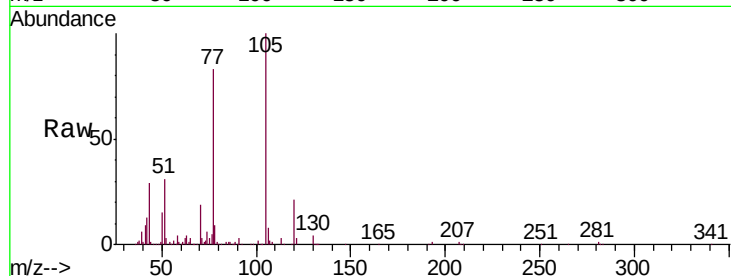
Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

ClientSampleId :

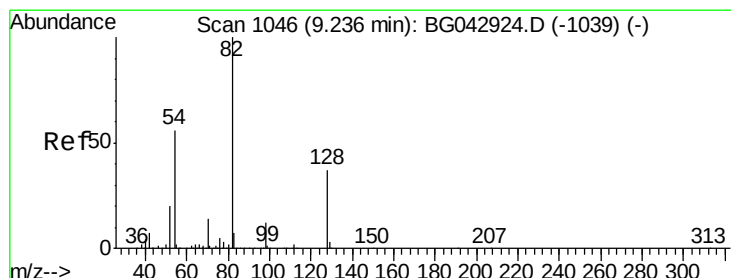
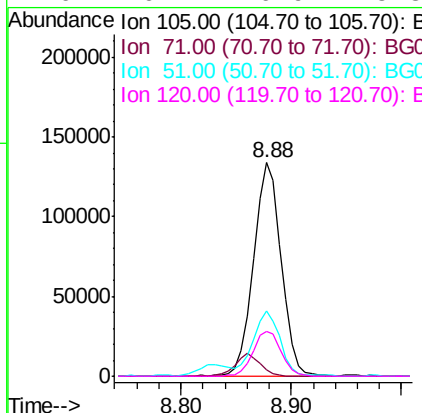
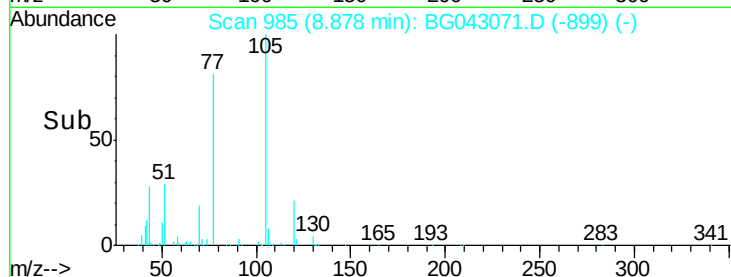
HR-05-100219MS



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 105     | 100   |       |       |
| 71      | 3.1   | 1.2   | 1.8#  |
| 51      | 30.5  | 27.2  | 40.8  |
| 120     | 20.7  | 16.9  | 25.3  |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#23

Nitrobenzene-d5

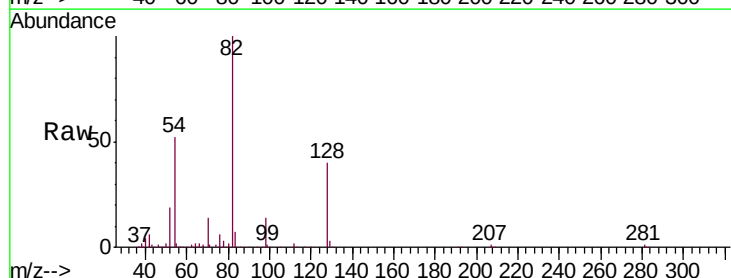
Concen: 97.877 ng

RT: 9.22 min Scan# 1043

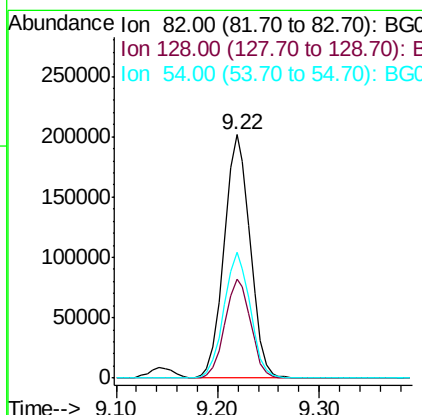
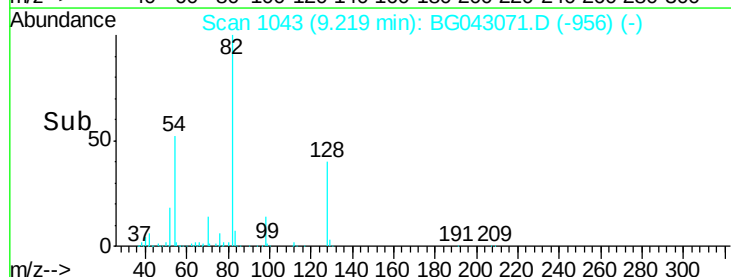
Delta R.T. -0.02 min

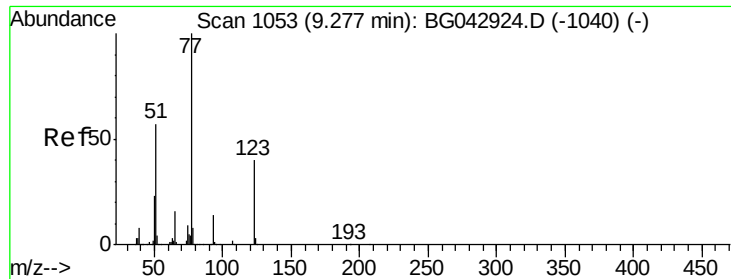
Lab File: BG043071.D

Acq: 7 Oct 2019 17:15



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 40.4  | 29.5  | 44.3  |
| 54      | 51.5  | 44.6  | 67.0  |





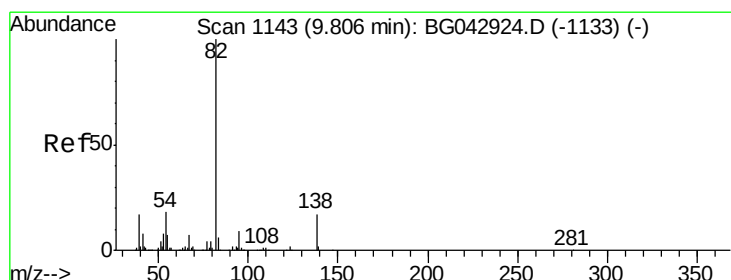
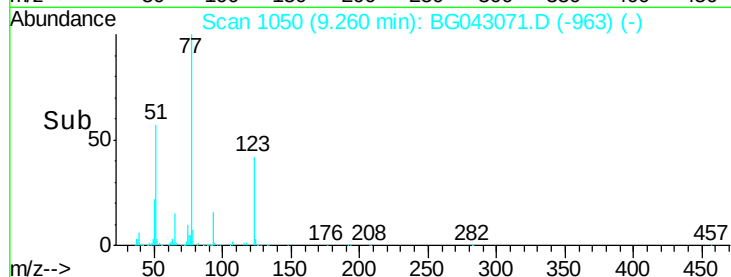
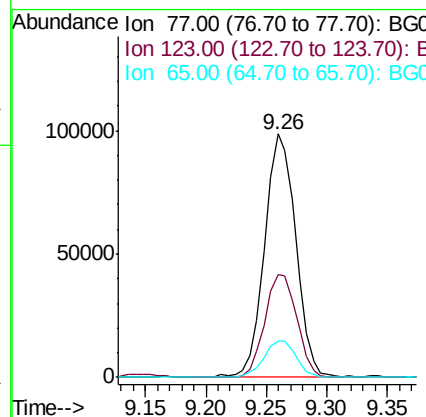
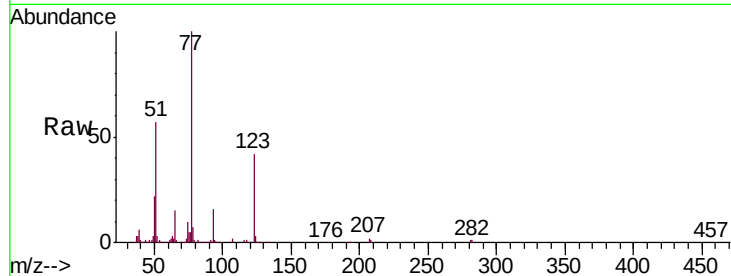
#24  
 Nitrobenzene  
 Concen: 50.413 ng  
 RT: 9.26 min Scan# 1050  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 42.2  | 31.9  | 47.9  |
| 65      | 14.7  | 12.4  | 18.6  |

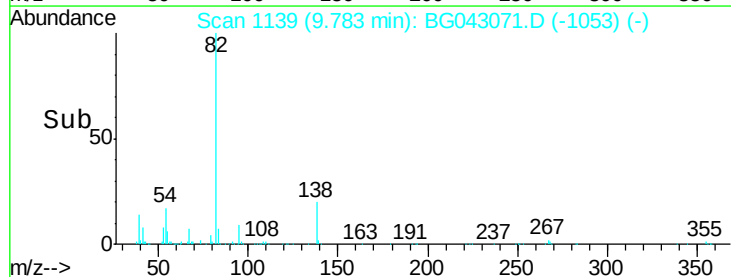
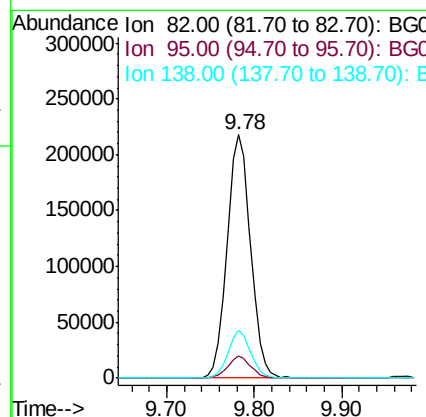
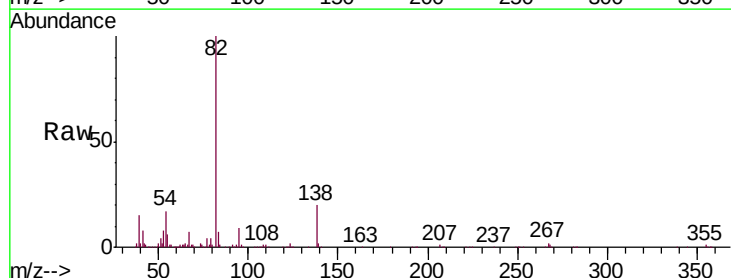
Manual Integrations  
 APPROVED

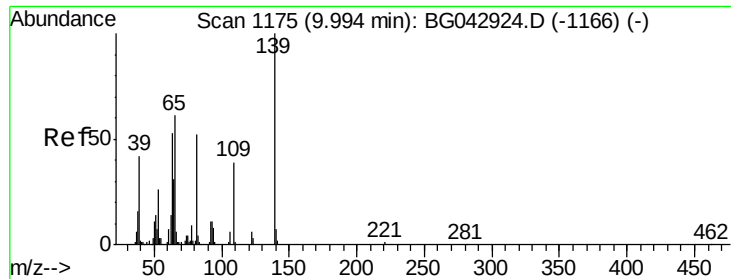
mohammad  
 10/8/2019 12:22:47 PM



#25  
 Isophorone  
 Concen: 62.162 ng  
 RT: 9.78 min Scan# 1139  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 95      | 9.1   | 7.0   | 10.4  |
| 138     | 19.7  | 13.8  | 20.6  |





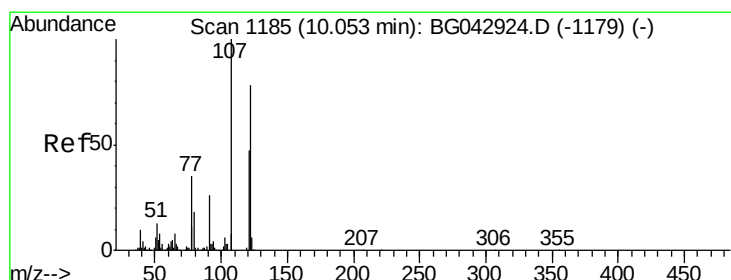
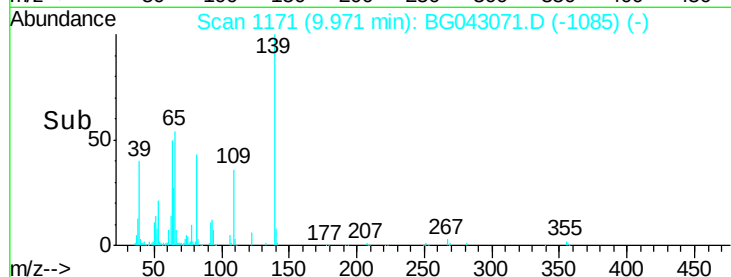
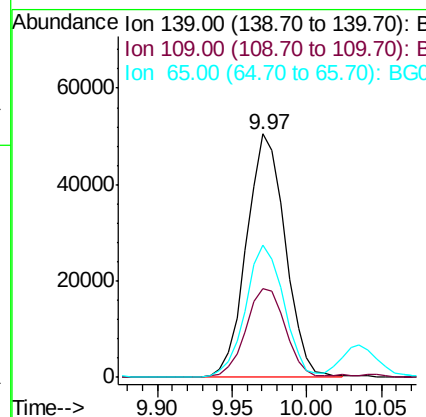
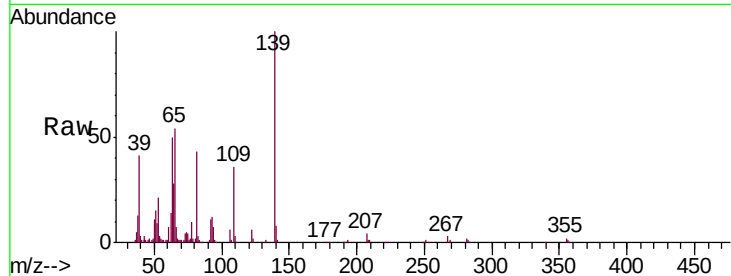
#26  
2-Nitrophenol  
Concen: 61.048 ng  
RT: 9.97 min Scan# 1171  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 139     | 100   | 90411 |       |       |
| 109     | 36.3  | 31.0  | 46.6  |       |
| 65      | 54.1  | 48.4  | 72.6  |       |

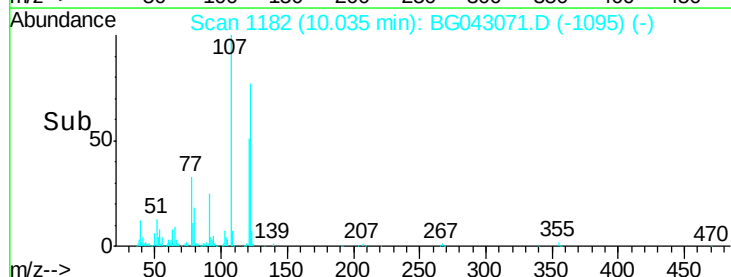
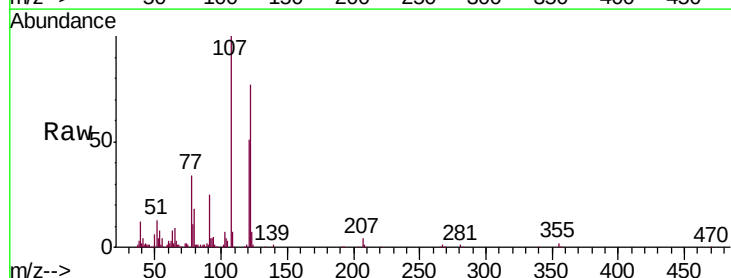
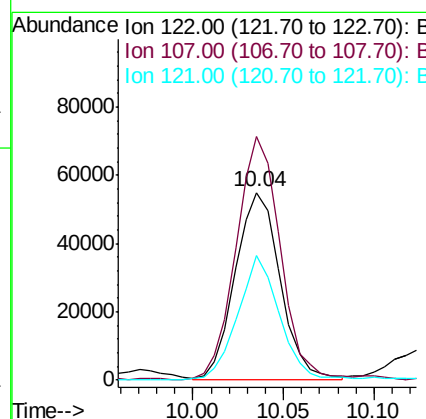
Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM

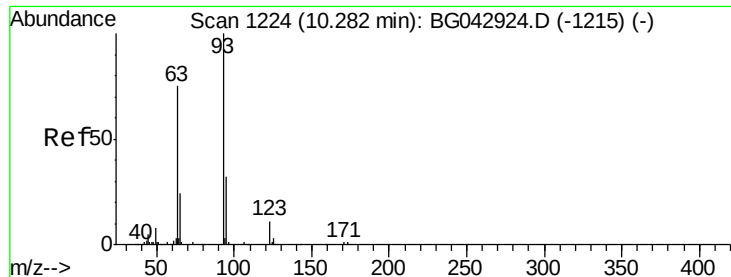


#27  
2,4-Dimethylphenol  
Concen: 41.415 ng  
RT: 10.04 min Scan# 1182  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 122     | 100   | 94194 |       |       |
| 107     | 129.6 | 102.2 | 153.2 |       |
| 121     | 66.2  | 48.5  | 72.7  |       |







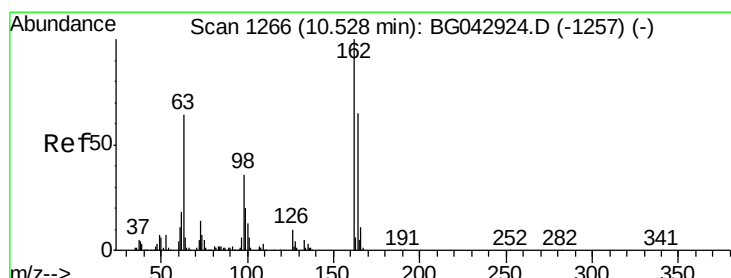
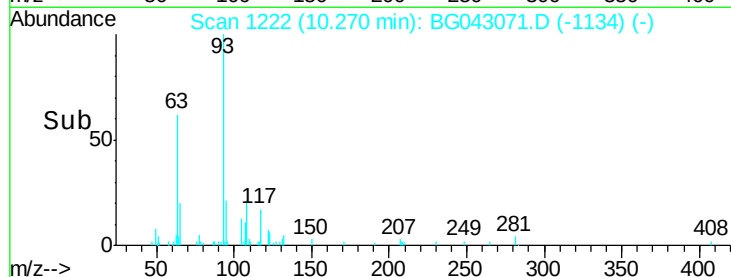
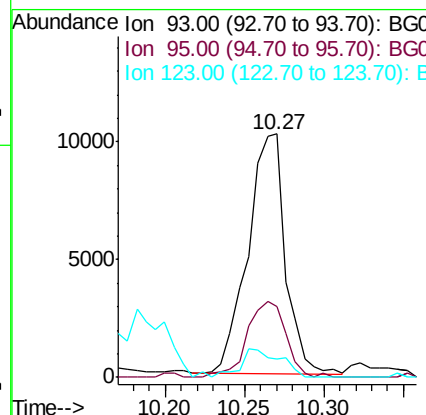
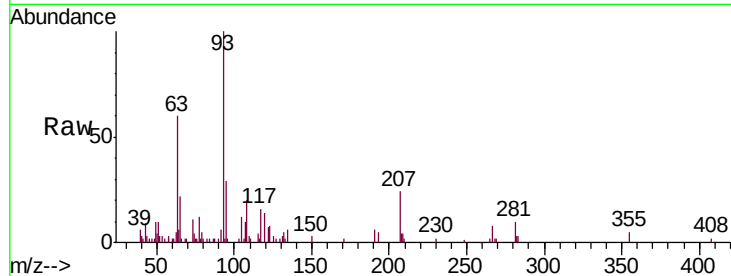
#28  
bis(2-Chloroethoxy)methane  
Concen: 4.650 ng  
RT: 10.27 min Scan# 1222  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 95      | 29.1  | 25.4  | 38.0  |
| 123     | 7.5   | 9.3   | 13.9  |

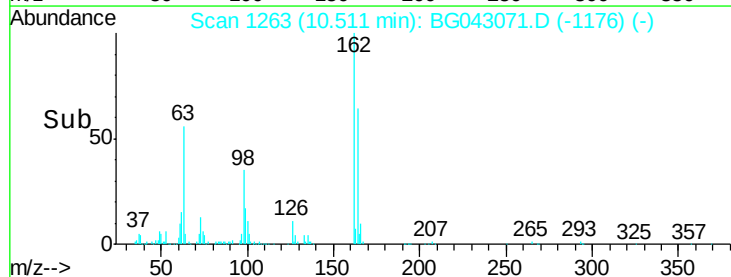
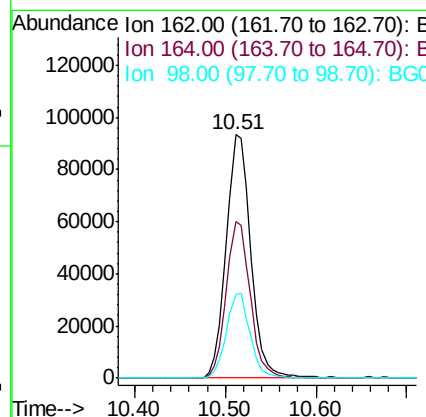
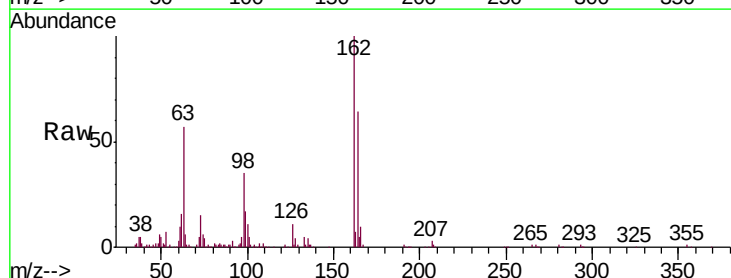
Manual Integrations  
APPROVED

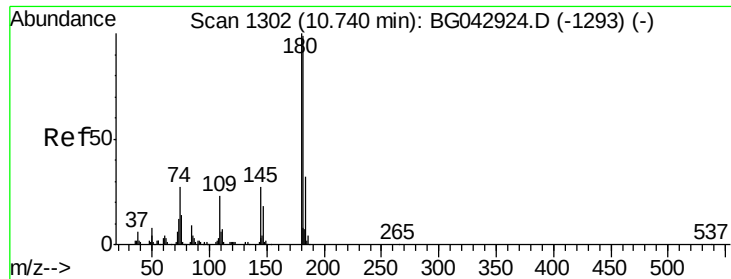
mohammad  
10/8/2019 12:22:47 PM



#29  
2,4-Dichlorophenol  
Concen: 62.328 ng  
RT: 10.51 min Scan# 1263  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 64.1  | 44.7  | 84.7  |
| 98      | 34.6  | 16.0  | 56.0  |





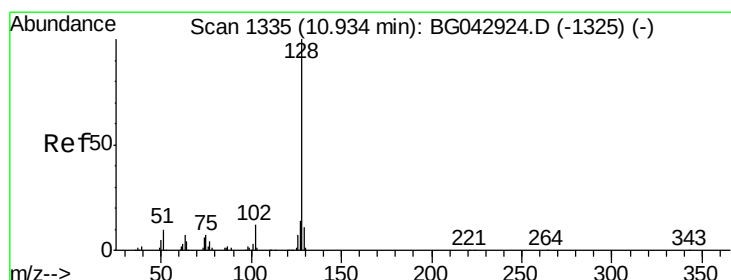
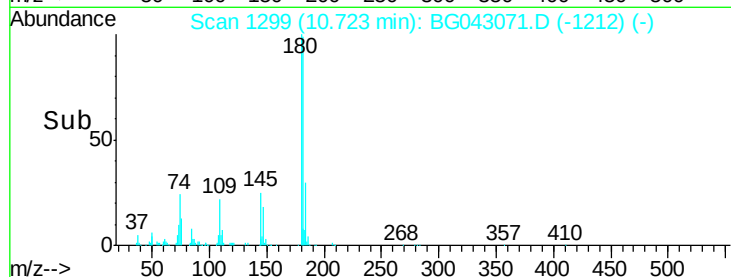
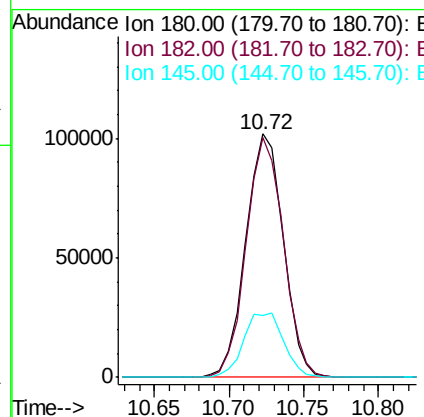
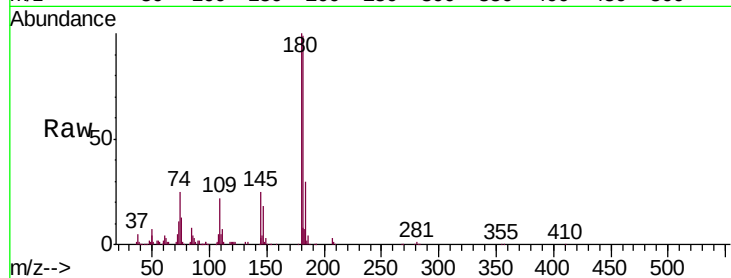
#30  
1,2,4-Trichlorobenzene  
Concen: 48.541 ng  
RT: 10.72 min Scan# 1299  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 98.7  | 79.3  | 118.9 |
| 145     | 25.3  | 22.0  | 33.0  |

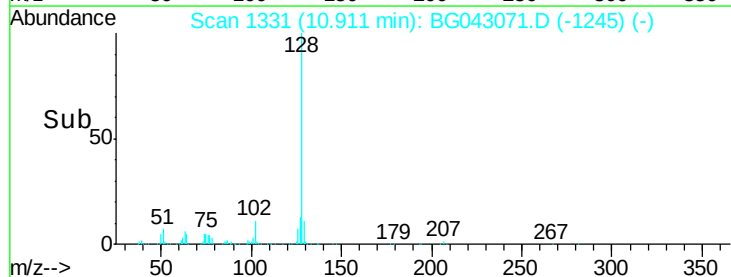
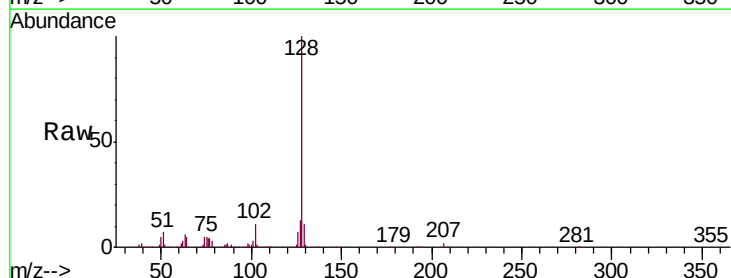
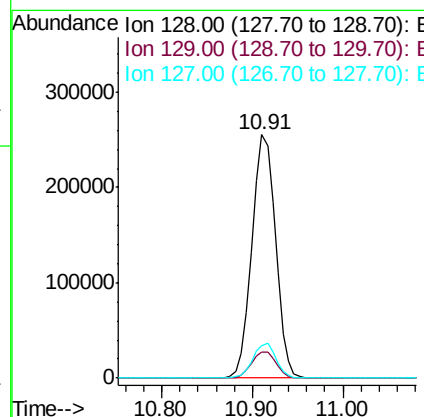
Manual Integrations  
APPROVED

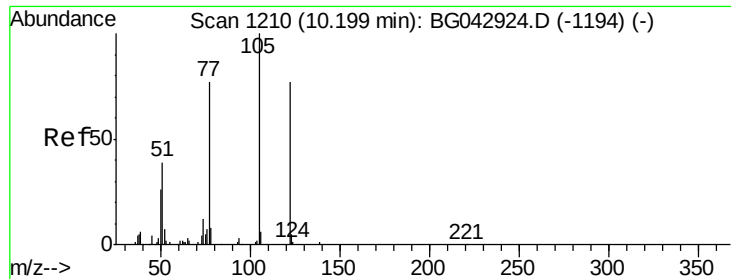
mohammad  
10/8/2019 12:22:47 PM



#31  
Naphthalene  
Concen: 53.111 ng  
RT: 10.91 min Scan# 1331  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.8  | 8.8   | 13.2  |
| 127     | 13.3  | 11.3  | 16.9  |





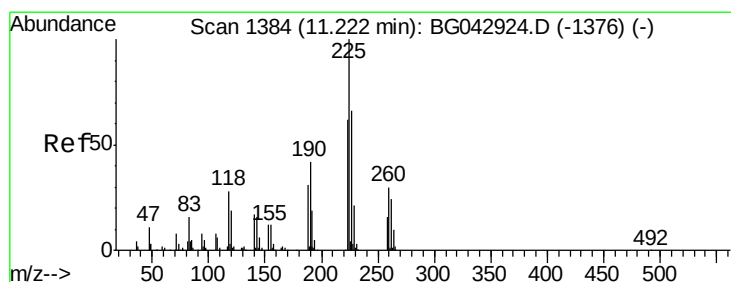
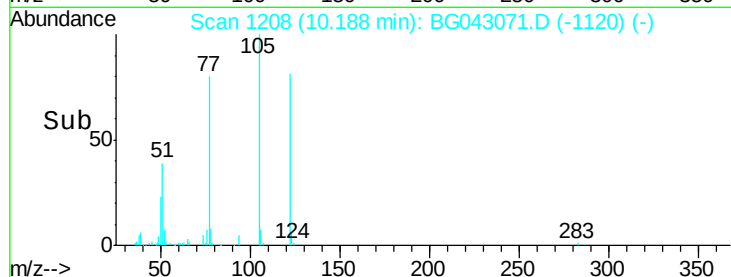
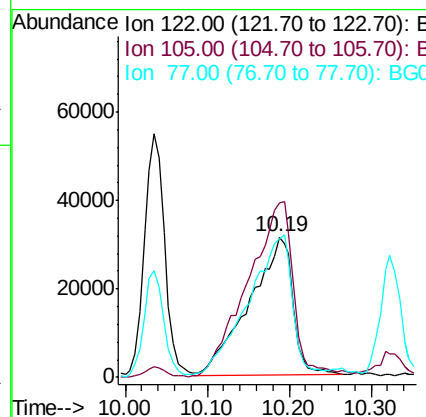
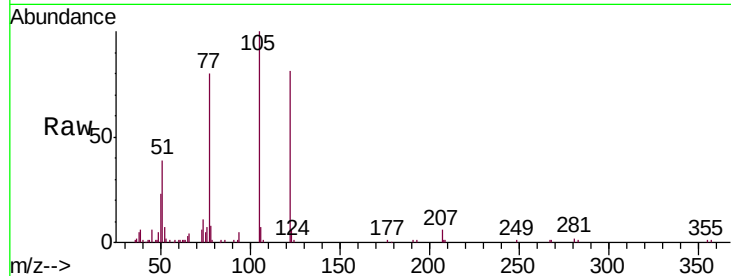
#32  
Benzoic acid  
Concen: 61.984 ng  
RT: 10.19 min Scan# 1208  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt | Ion   | Ratio | Resp  | Lower | Upper |
|-----|-------|-------|-------|-------|-------|
| 122 | 100   |       |       |       |       |
| 105 | 124.0 | 107.5 | 147.5 |       |       |
| 77  | 98.6  | 79.8  | 119.8 |       |       |

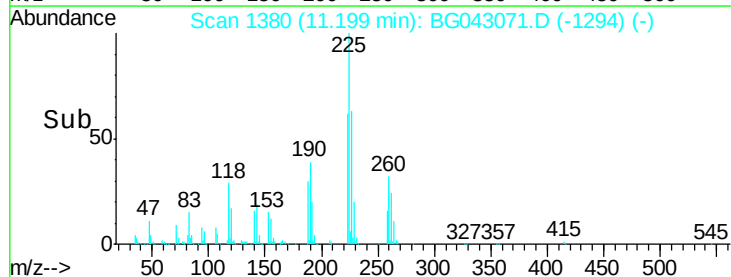
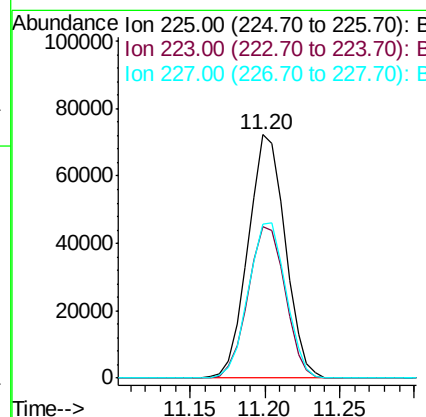
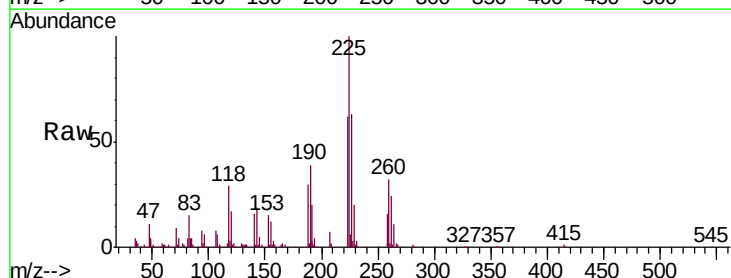
Manual Integrations  
APPROVED

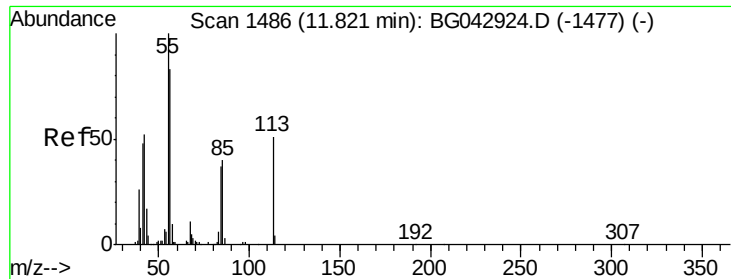
mohammad  
10/8/2019 12:22:47 PM



#34  
Hexachlorobutadiene  
Concen: 45.331 ng  
RT: 11.20 min Scan# 1380  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt | Ion  | Ratio | Resp | Lower | Upper |
|-----|------|-------|------|-------|-------|
| 225 | 100  |       |      |       |       |
| 223 | 62.2 | 49.3  | 73.9 |       |       |
| 227 | 63.3 | 52.8  | 79.2 |       |       |





#35

Caprolactam

Concen: 59.446 ng m

RT: 11.90 min Scan# 1500

Delta R.T. 0.08 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

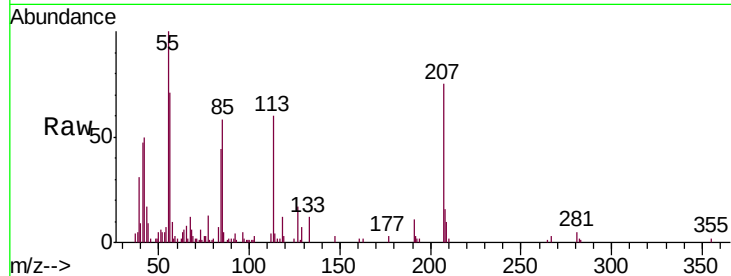
ClientSampleId :

HR-05-100219MS

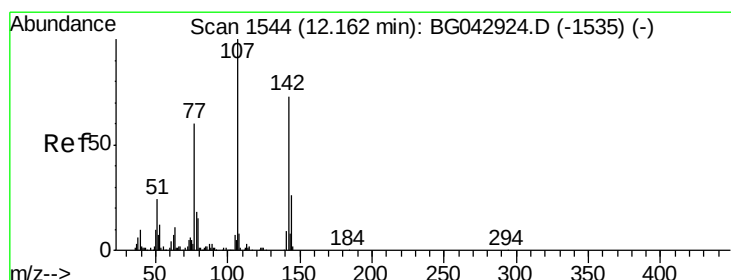
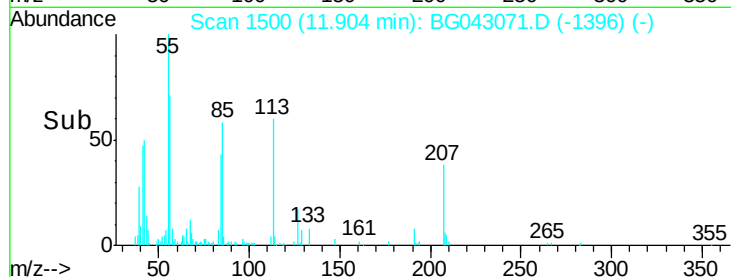
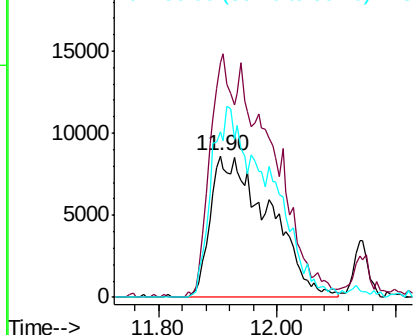
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 113   | Resp: | 59298  |
| Ion Ratio | Lower | Upper |        |
| 113       | 100   |       |        |
| 55        | 165.5 | 175.5 | 215.5# |
| 56        | 116.8 | 142.3 | 182.3# |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



Abundance Ion 113.00 (112.70 to 113.70): E  
Ion 55.00 (54.70 to 55.70): BG  
Ion 56.00 (55.70 to 56.70): BG



#36

4-Chloro-3-methylphenol

Concen: 49.568 ng

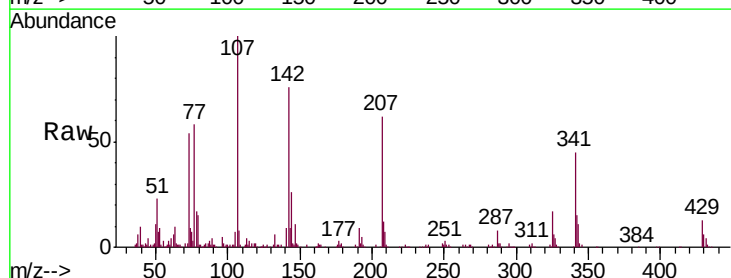
RT: 12.14 min Scan# 1541

Delta R.T. -0.02 min

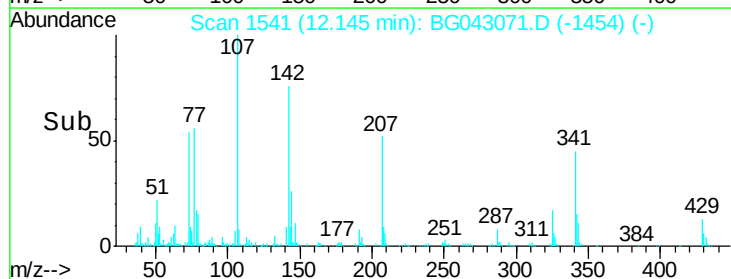
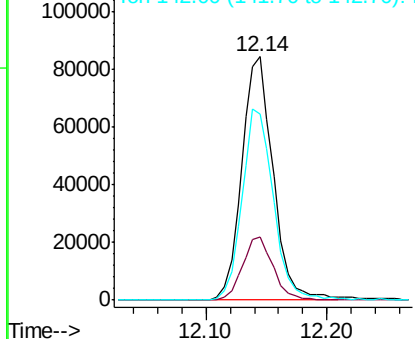
Lab File: BG043071.D

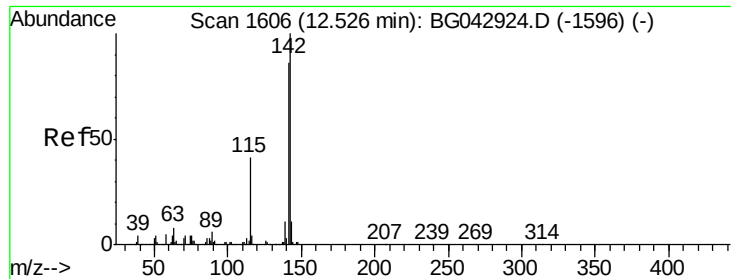
Acq: 7 Oct 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 107   | Resp: | 152448 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 144       | 26.1  | 20.7  | 31.1   |
| 142       | 76.3  | 58.6  | 87.8   |



Abundance Ion 107.00 (106.70 to 107.70): E  
Ion 144.00 (143.70 to 144.70): E  
Ion 142.00 (141.70 to 142.70): E





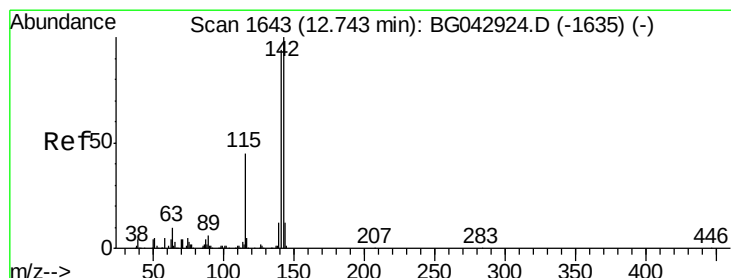
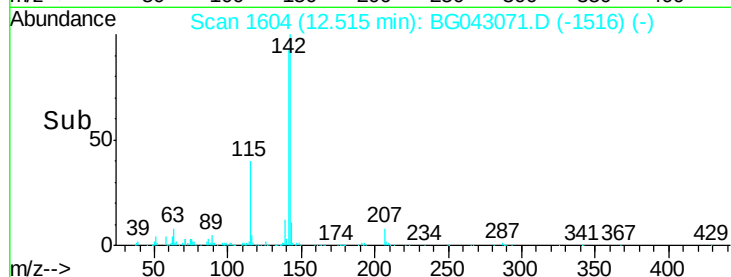
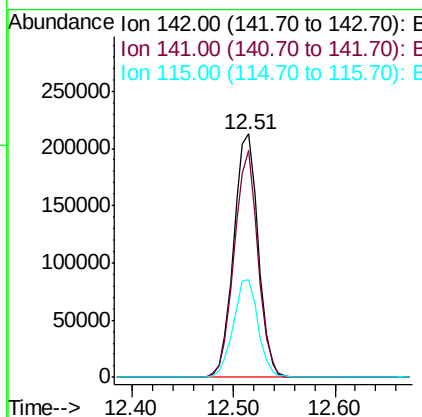
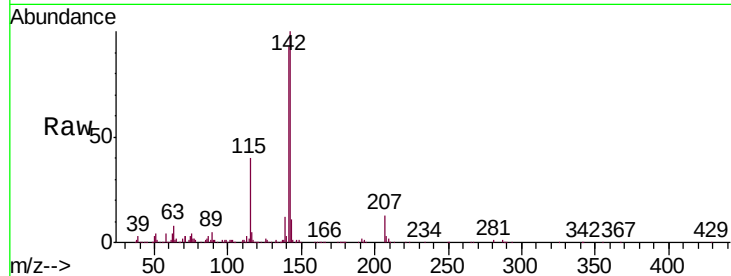
#37  
2-Methylnaphthalene  
Concen: 53.581 ng  
RT: 12.51 min Scan# 1604  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 93.1  | 69.0  | 103.4 |
| 115     | 40.1  | 32.8  | 49.2  |

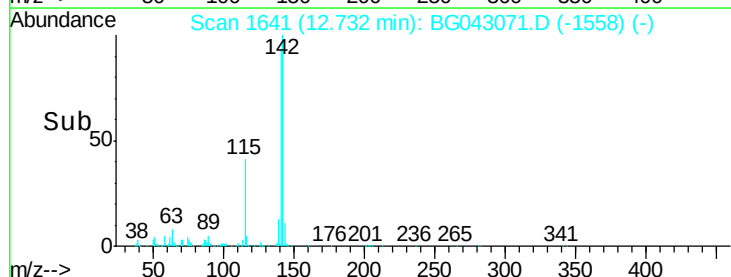
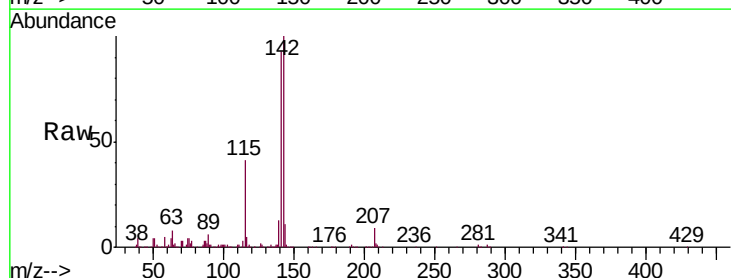
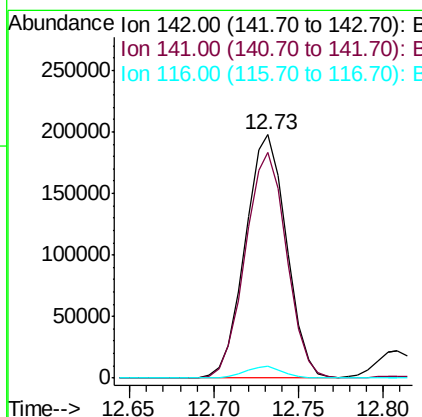
Manual Integrations  
APPROVED

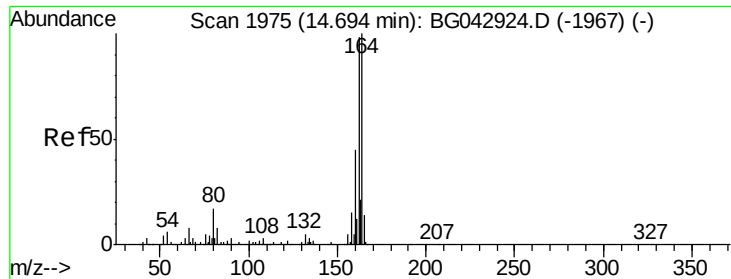
mohammad  
10/8/2019 12:22:47 PM



#38  
1-Methylnaphthalene  
Concen: 53.255 ng  
RT: 12.73 min Scan# 1641  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 92.5  | 74.9  | 112.3 |
| 116     | 4.7   | 3.7   | 5.5   |





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.68 min Scan# 1972

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

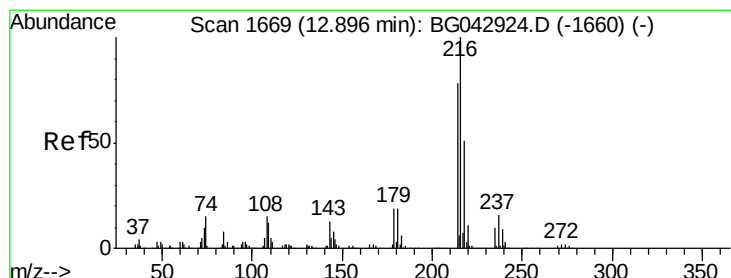
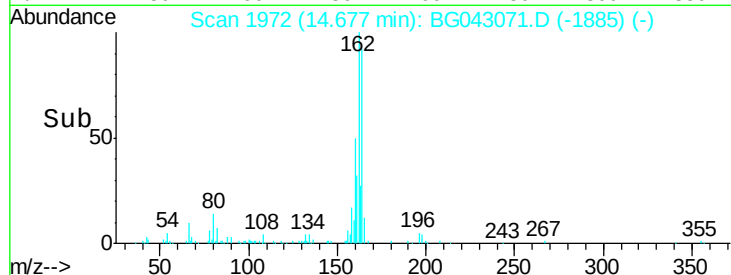
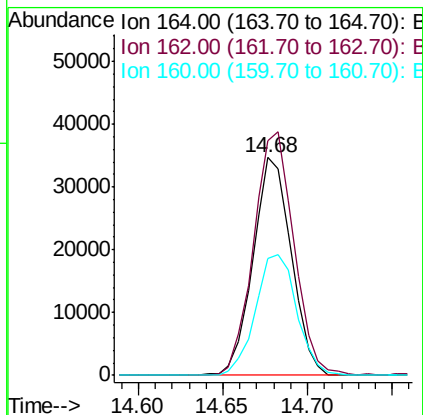
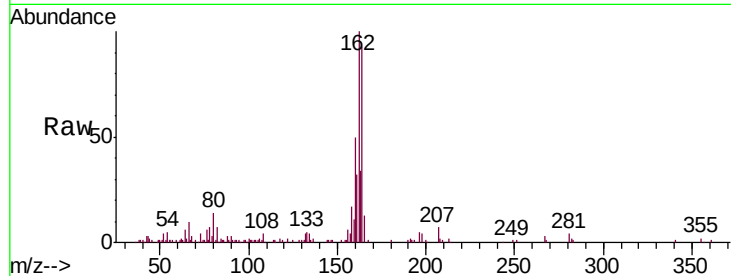
ClientSampleID :

HR-05-100219MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 54428 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 107.7 | 78.5  | 117.7 |
| 160       | 53.9  | 35.9  | 53.9# |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#40

1,2,4,5-Tetrachlorobenzene

Concen: 112.859 ng

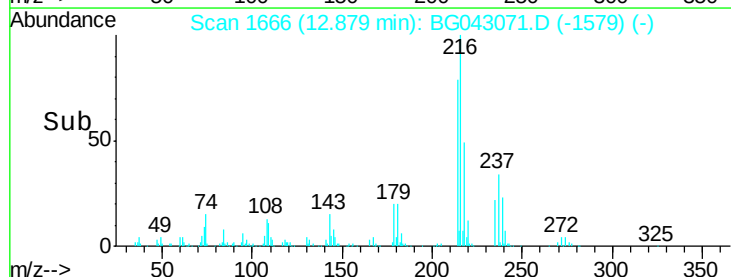
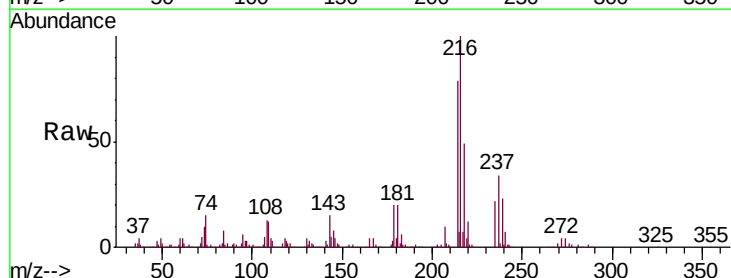
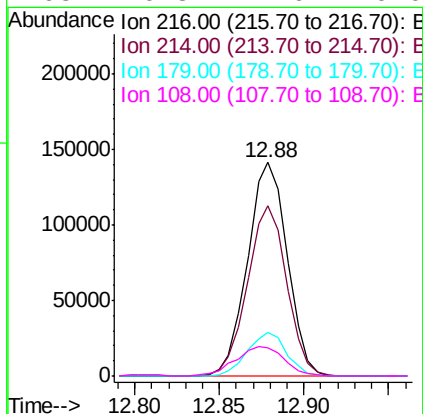
RT: 12.88 min Scan# 1666

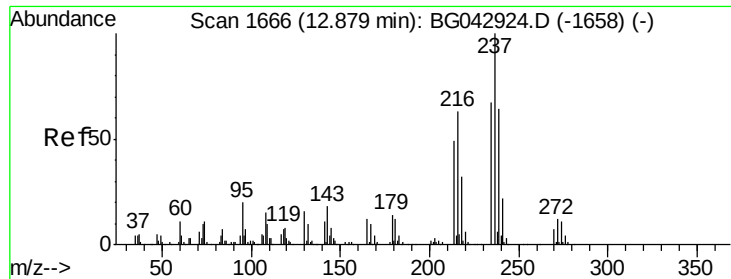
Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 216   | Resp: | 230960 |
| Ion Ratio | Lower | Upper |        |
| 216       | 100   |       |        |
| 214       | 79.2  | 62.4  | 93.6   |
| 179       | 20.4  | 15.4  | 23.2   |
| 108       | 16.8  | 12.6  | 19.0   |





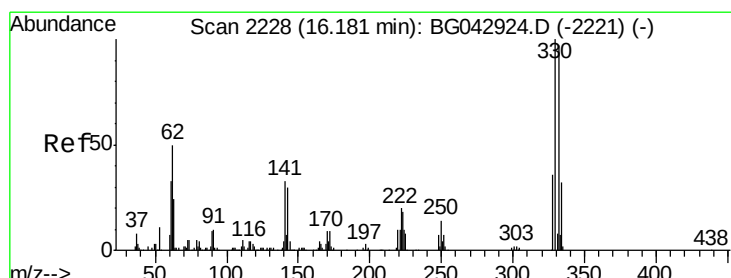
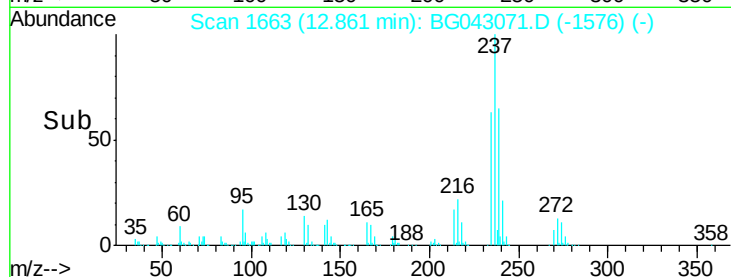
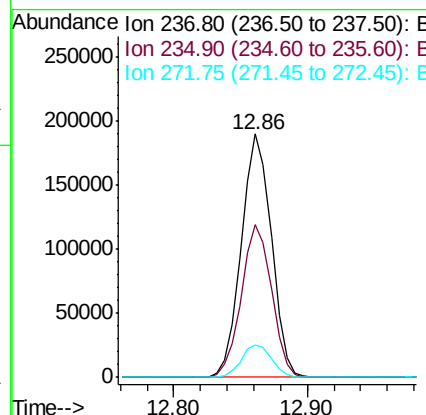
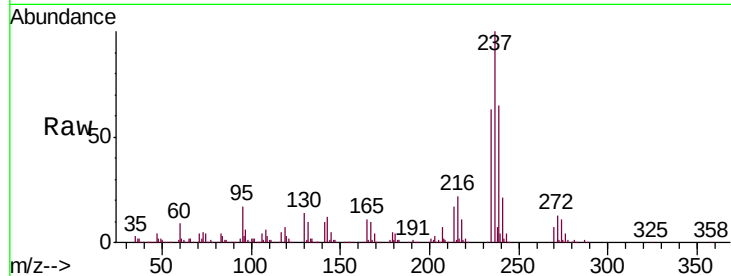
#41  
Hexachlorocyclopentadiene  
Concen: 226.181 ng  
RT: 12.86 min Scan# 1663  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 237     | 100   |            |            |
| 235     | 62.7  | 46.7       | 86.7       |
| 272     | 13.3  | 0.0        | 32.3       |

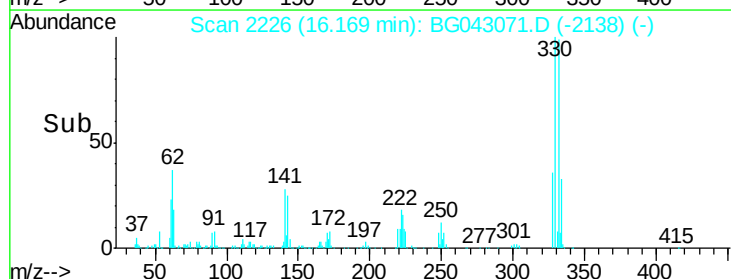
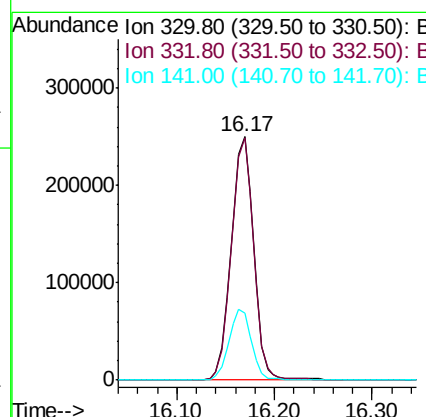
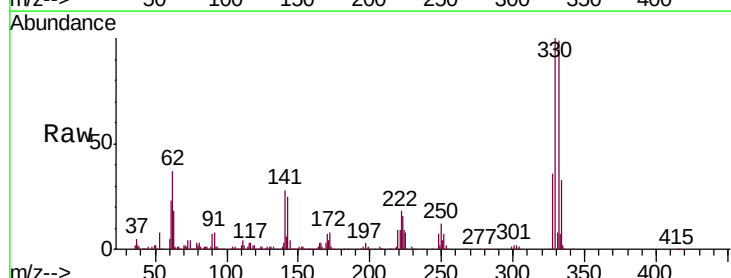
Manual Integrations  
APPROVED

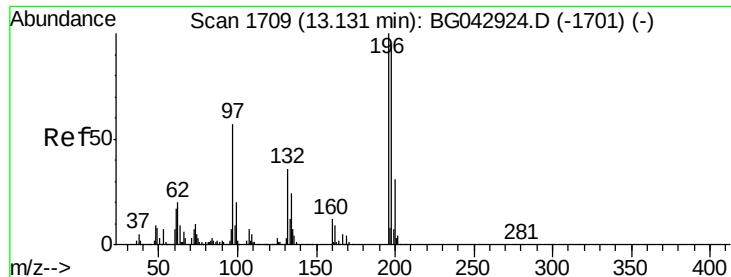
mohammad  
10/8/2019 12:22:47 PM



#42  
2,4,6-Tribromophenol  
Concen: 427.671 ng  
RT: 16.17 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 330     | 100   |            |            |
| 332     | 98.4  | 78.2       | 117.2      |
| 141     | 29.1  | 26.0       | 39.0       |





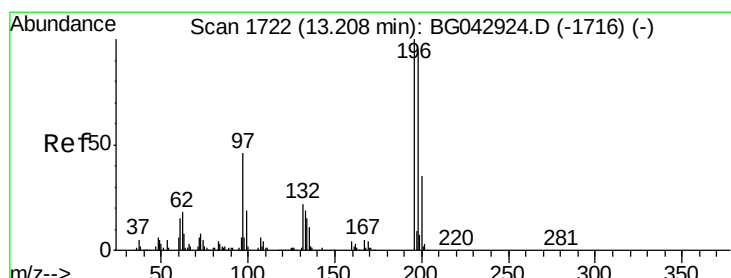
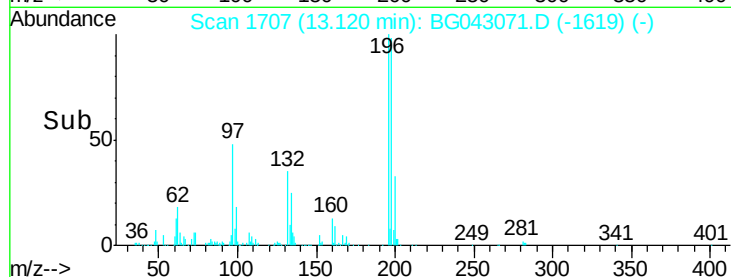
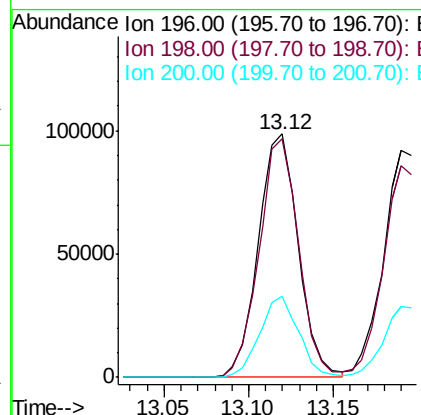
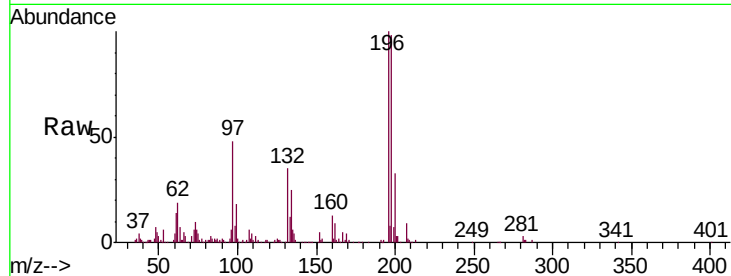
#43  
 2,4,6-Trichlorophenol  
 Concen: 135.648 ng  
 RT: 13.12 min Scan# 1707  
 Delta R.T. -0.01 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 162478 |       |       |
| 198     | 97.8  | 75.5   | 113.3 |       |
| 200     | 33.3  | 24.9   | 37.3  |       |

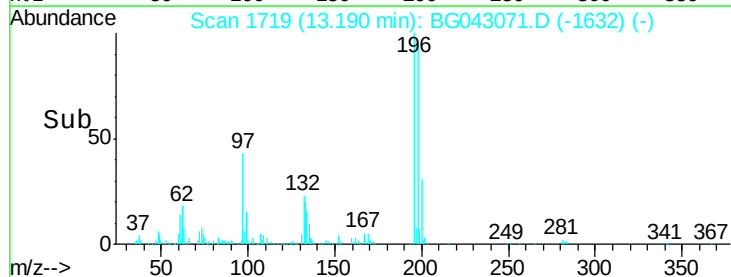
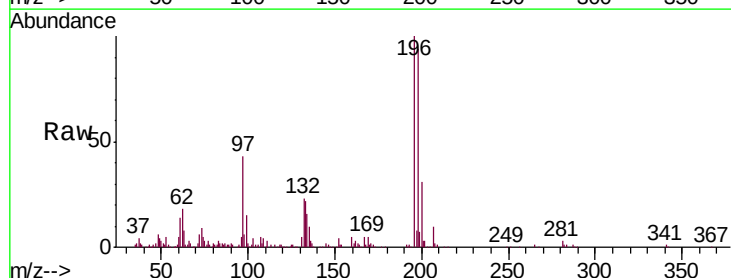
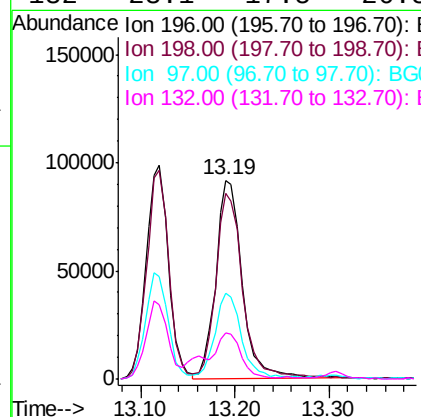
Manual Integrations  
 APPROVED

mohammad  
 10/8/2019 12:22:47 PM

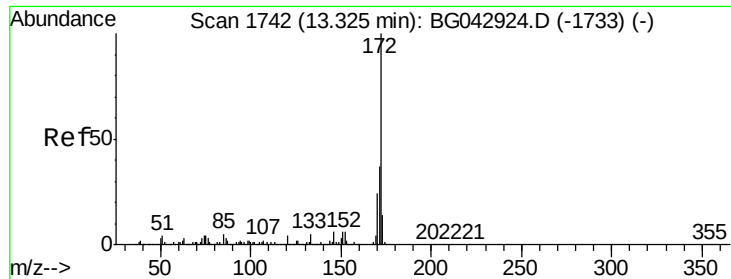


#44  
 2,4,5-Trichlorophenol  
 Concen: 146.269 ng  
 RT: 13.19 min Scan# 1719  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 196     | 100   | 180483 |       |       |
| 198     | 93.5  | 75.1   | 112.7 |       |
| 97      | 43.1  | 37.0   | 55.4  |       |
| 132     | 23.1  | 17.5   | 26.3  |       |







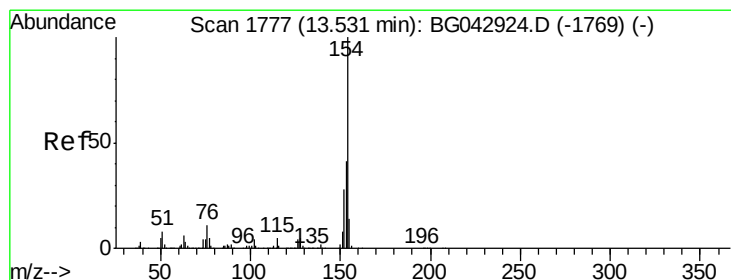
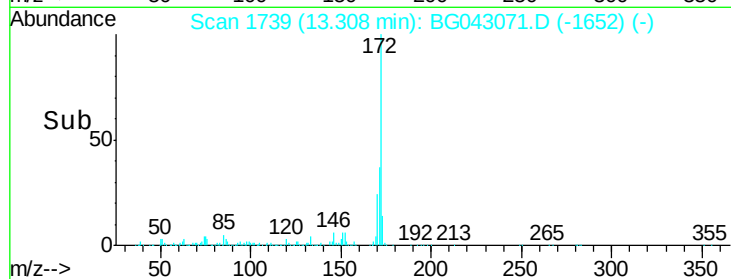
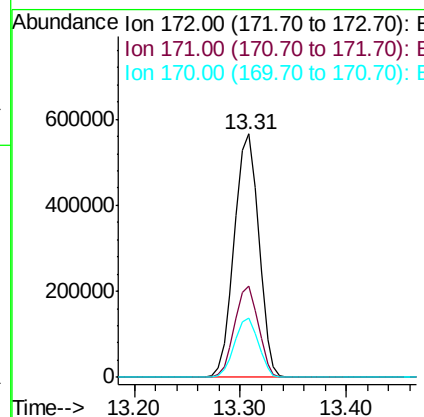
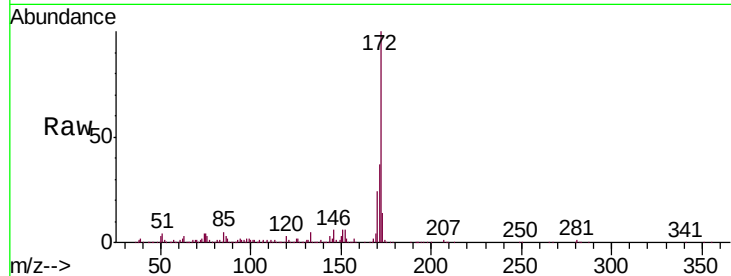
#45  
2-Fluorobiphenyl  
Concen: 241.554 ng  
RT: 13.31 min Scan# 1739  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 172     | 100   |            |            |
| 171     | 37.3  | 29.6       | 44.4       |
| 170     | 24.4  | 19.6       | 29.4       |

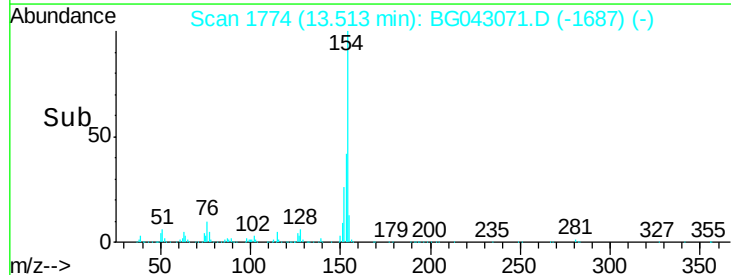
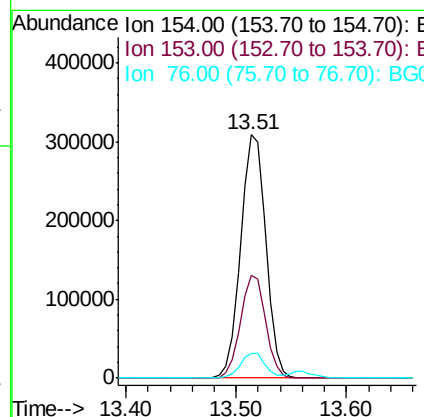
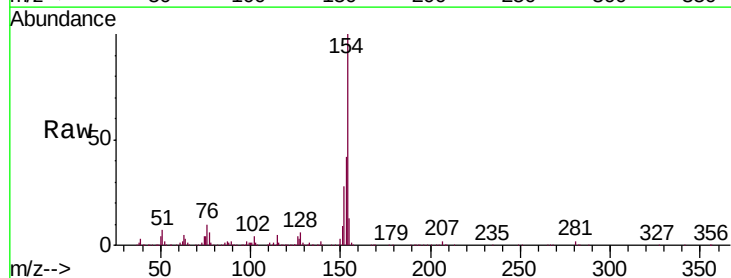
Manual Integrations  
APPROVED

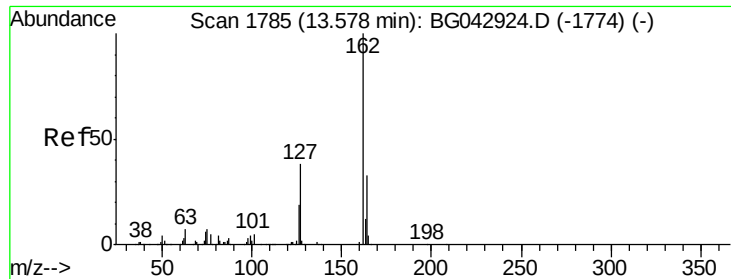
mohammad  
10/8/2019 12:22:47 PM



#46  
1,1'-Biphenyl  
Concen: 120.358 ng  
RT: 13.51 min Scan# 1774  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 154     | 100   |            |            |
| 153     | 42.3  | 21.4       | 61.4       |
| 76      | 10.3  | 0.0        | 31.3       |





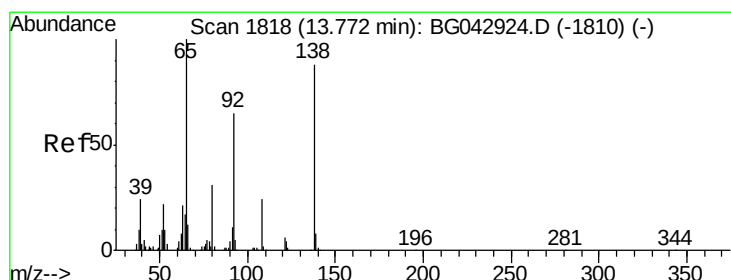
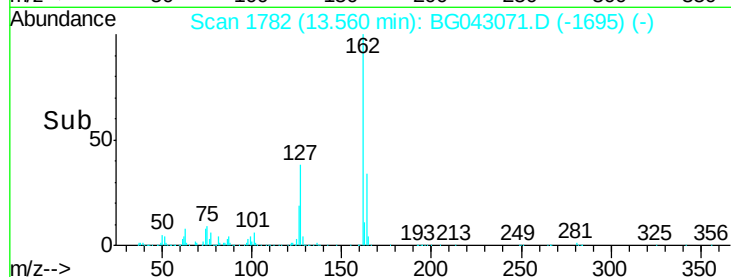
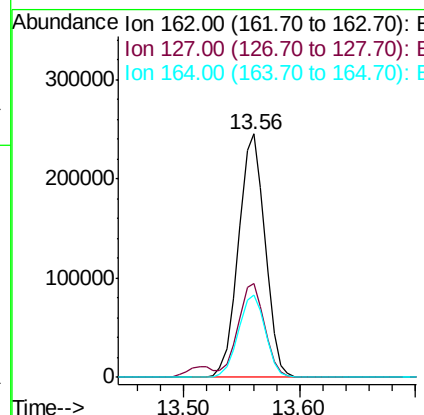
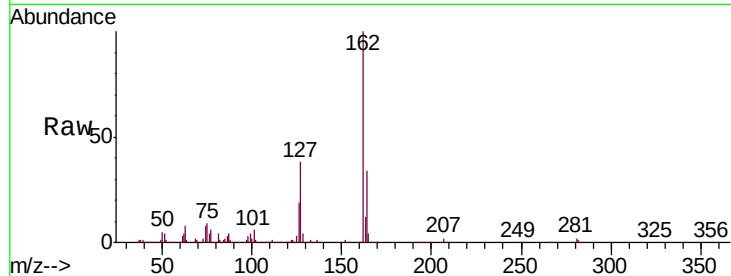
#47  
 2-Chloronaphthalene  
 Concen: 126.293 ng  
 RT: 13.56 min Scan# 1782  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 162     | 100   |            |       |
| 127     | 38.4  | 31.0       | 46.6  |
| 164     | 34.0  | 26.2       | 39.2  |

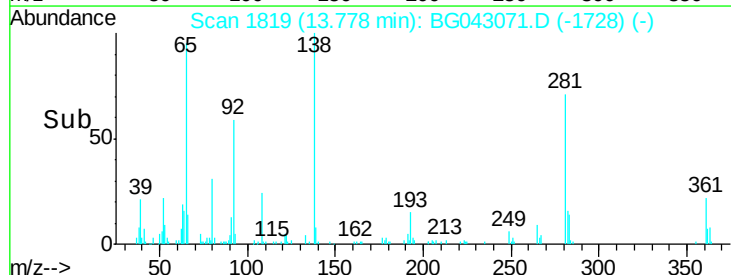
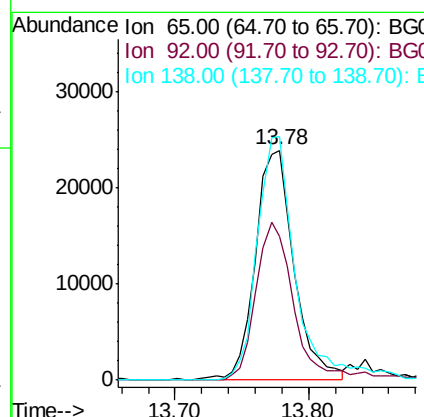
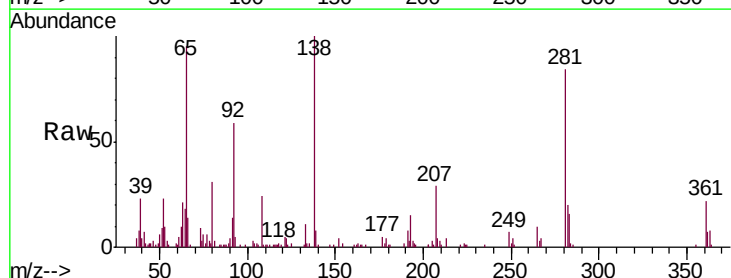
Manual Integrations  
 APPROVED

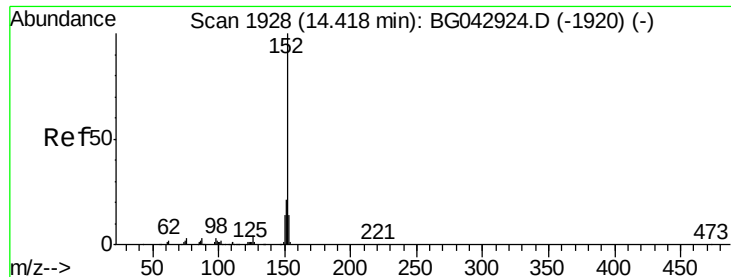
mohammad  
 10/8/2019 12:22:47 PM



#48  
 2-Nitroaniline  
 Concen: 46.568 ng  
 RT: 13.78 min Scan# 1819  
 Delta R.T. 0.01 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 65      | 100   |            |       |
| 92      | 62.7  | 52.0       | 78.0  |
| 138     | 105.8 | 70.4       | 105.6 |





#49

Acenaphthylene

Concen: 21.235 ng

RT: 14.40 min Scan# 1925

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

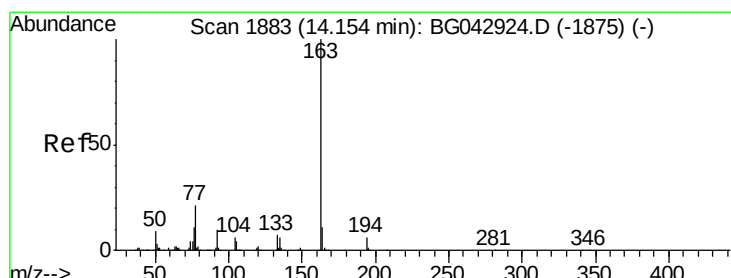
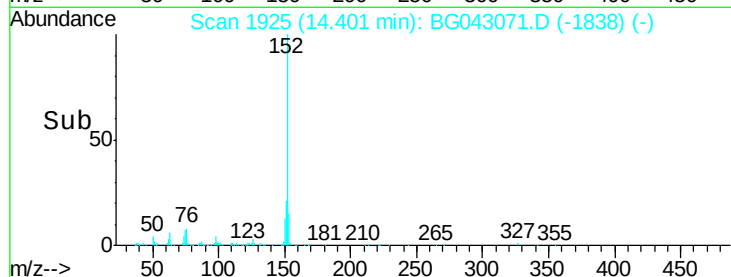
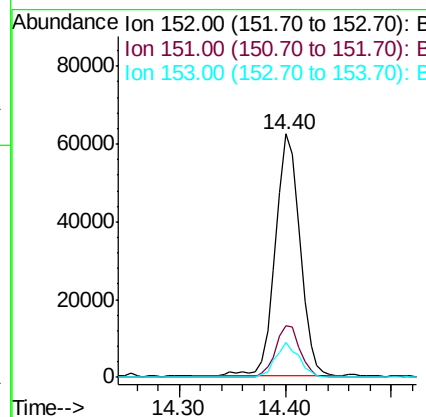
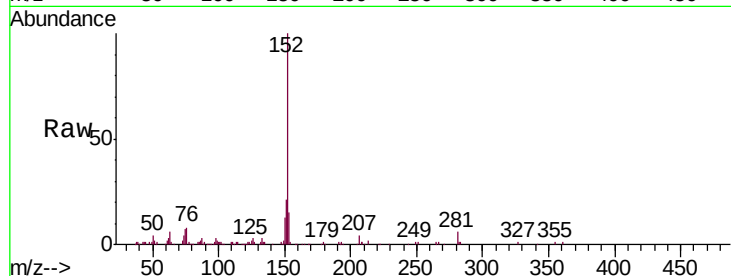
ClientSampleId :

HR-05-100219MS

| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 152 | 100  |      |       |       |
| 151 | 21.0 | 16.8 | 25.2  |       |
| 153 | 14.6 | 11.3 | 16.9  |       |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#50

Dimethylphthalate

Concen: 149.701 ng

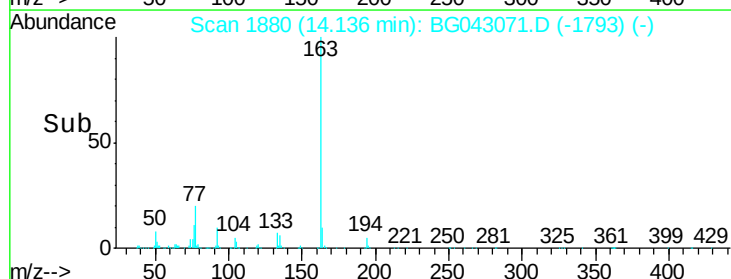
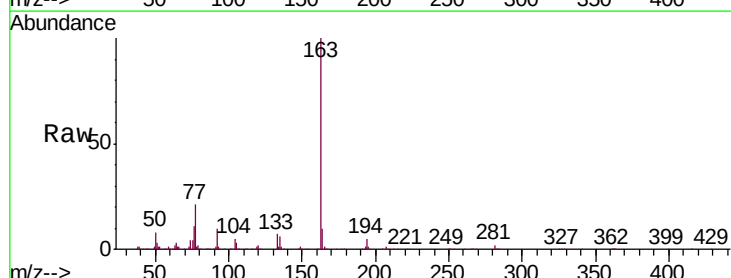
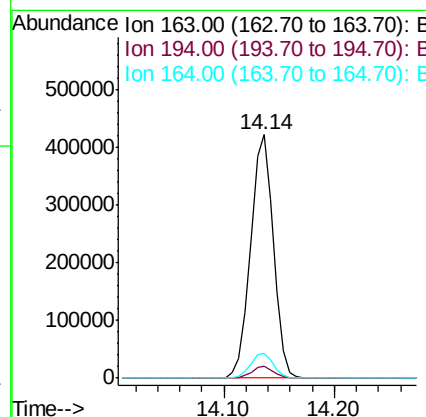
RT: 14.14 min Scan# 1880

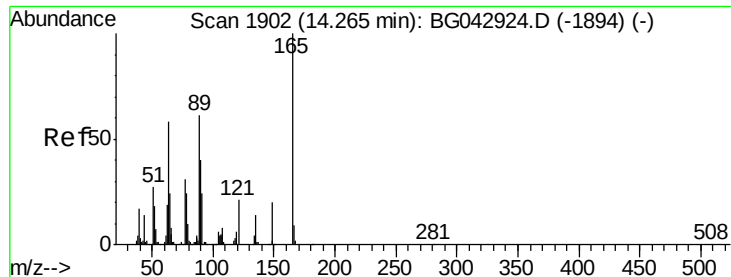
Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt | Ion  | Resp | Lower | Upper |
|-----|------|------|-------|-------|
| 163 | 100  |      |       |       |
| 194 | 4.9  | 4.4  | 6.6   |       |
| 164 | 10.4 | 8.6  | 12.8  |       |





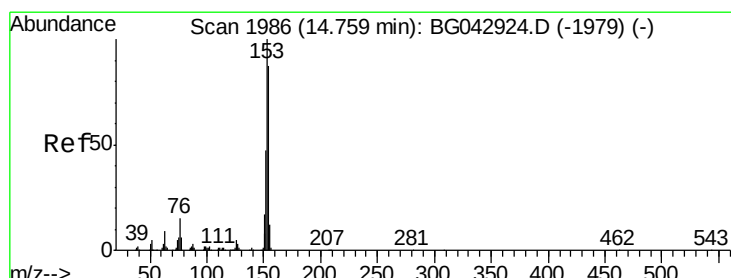
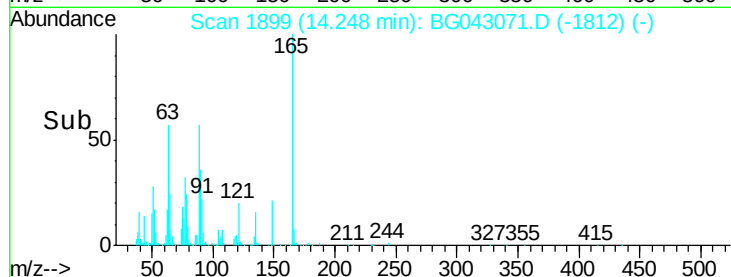
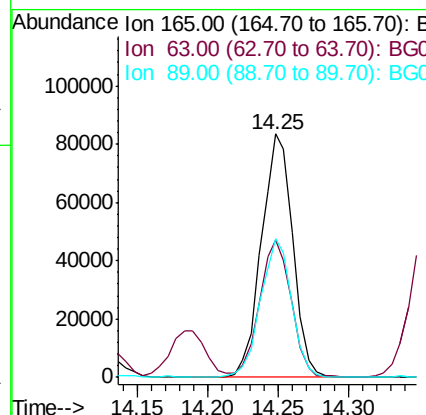
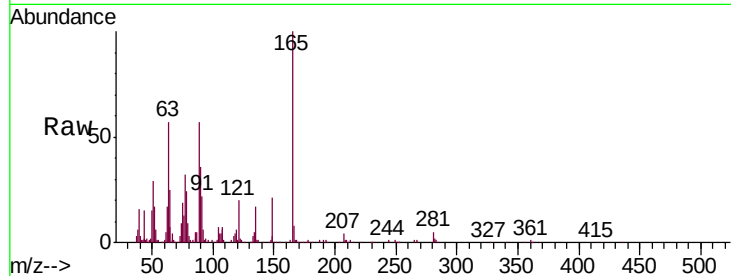
#51  
2,6-Dinitrotoluene  
Concen: 150.030 ng  
RT: 14.25 min Scan# 1899  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 130295 |       |       |
| 63      | 56.7  | 50.3   | 75.5  |       |
| 89      | 57.2  | 48.9   | 73.3  |       |

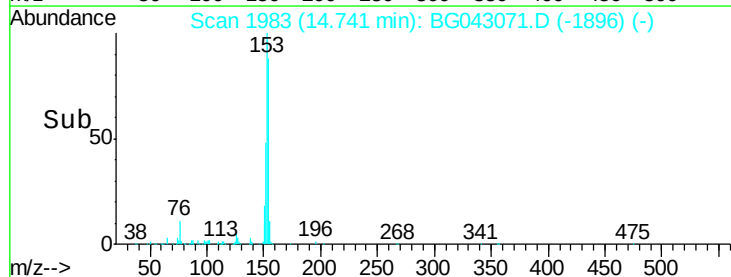
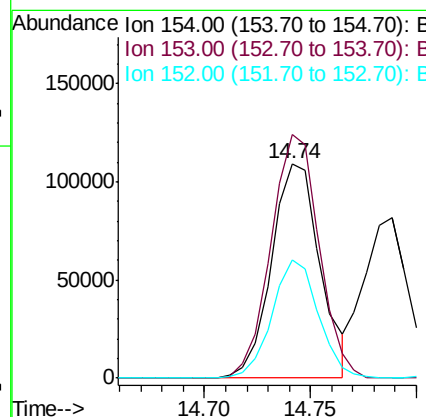
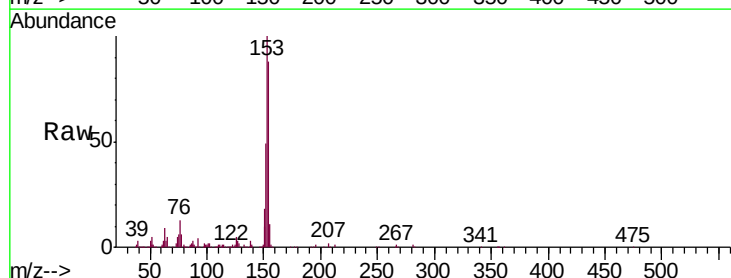
Manual Integrations  
APPROVED

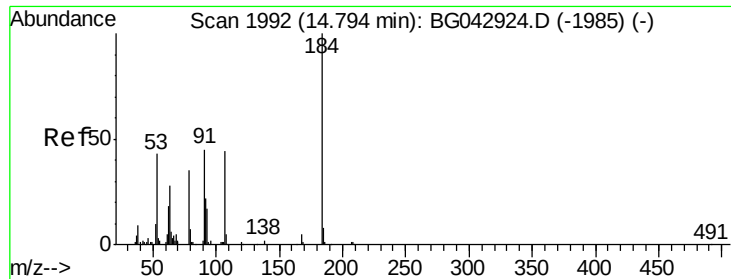
mohammad  
10/8/2019 12:22:47 PM



#52  
Acenaphthene  
Concen: 55.193 ng  
RT: 14.74 min Scan# 1983  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 174936 |       |       |
| 153     | 113.7 | 91.4   | 137.0 |       |
| 152     | 55.4  | 42.8   | 64.2  |       |





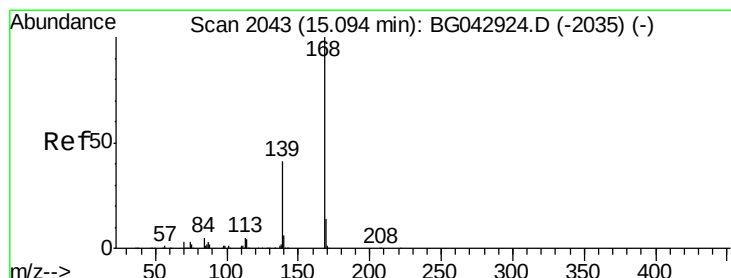
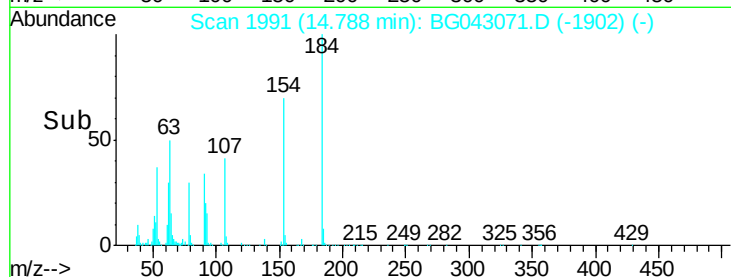
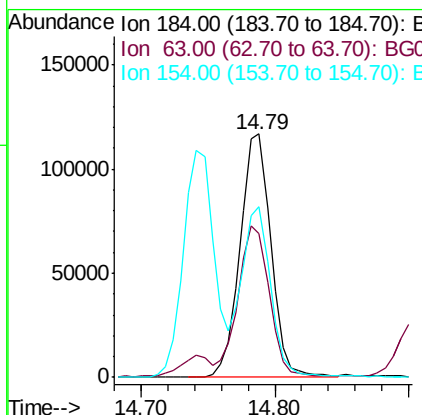
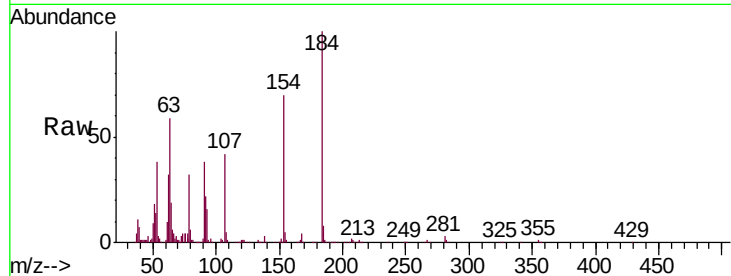
#54  
2,4-Dinitrophenol  
Concen: 346.896 ng  
RT: 14.79 min Scan# 1991  
Delta R.T. -0.01 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 184     | 100   | 187261 |       |       |
| 63      | 59.0  | 55.0   | 82.6  |       |
| 154     | 69.8  | 56.5   | 84.7  |       |

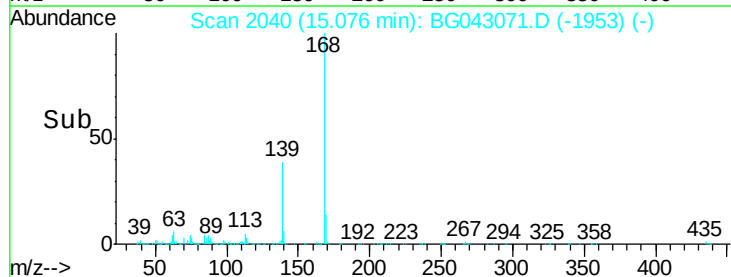
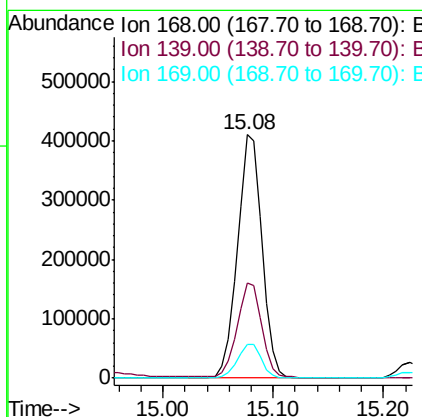
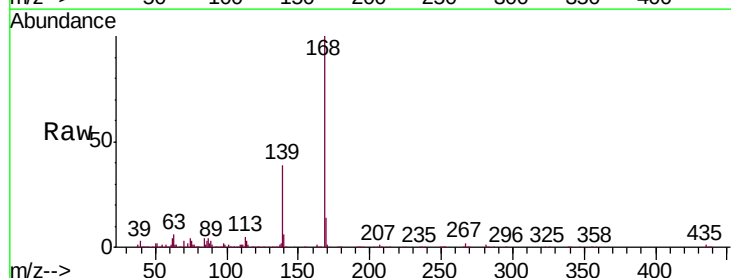
Manual Integrations  
APPROVED

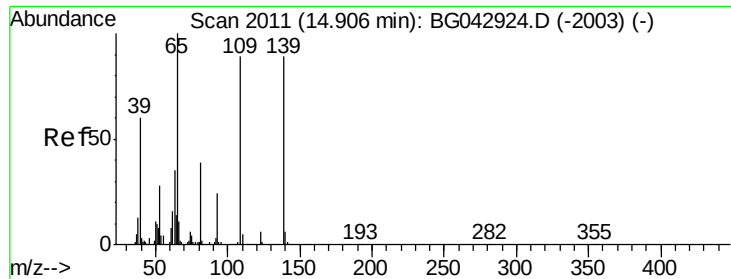
mohammad  
10/8/2019 12:22:47 PM



#55  
Dibenzofuran  
Concen: 136.716 ng  
RT: 15.08 min Scan# 2040  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 168     | 100   | 641004 |       |       |
| 139     | 39.0  | 32.6   | 48.8  |       |
| 169     | 13.8  | 11.2   | 16.8  |       |





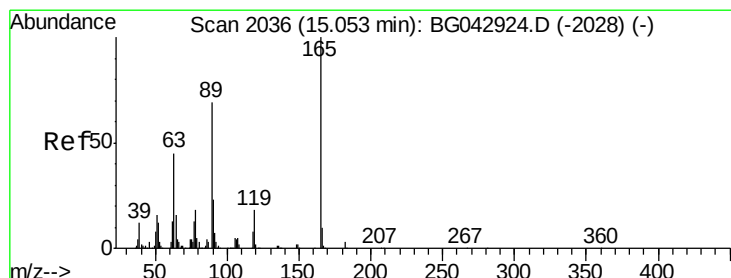
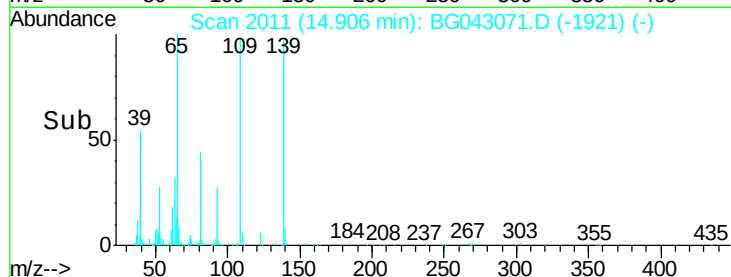
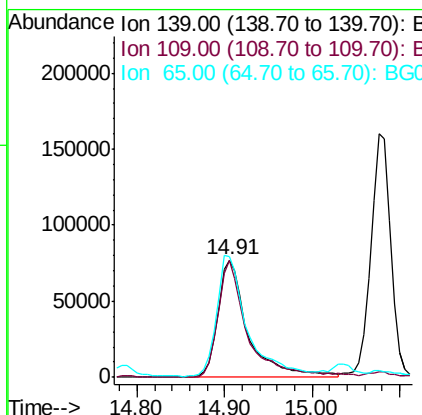
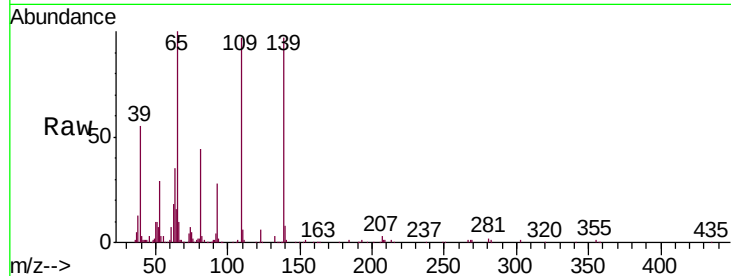
#56  
4-Nitrophenol  
Concen: 269.616 ng  
RT: 14.91 min Scan# 2011  
Delta R.T. 0.00 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 139     | 100   | 184375 |       |       |
| 109     | 100.0 | 79.4   | 119.4 |       |
| 65      | 102.6 | 92.5   | 132.5 |       |

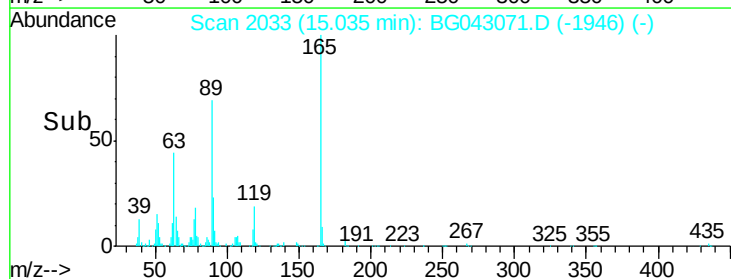
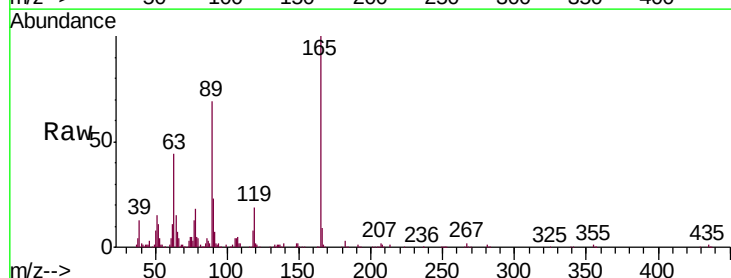
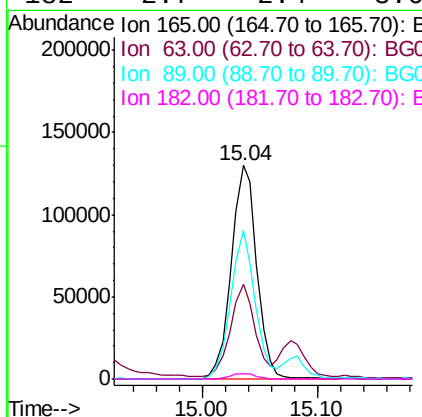
Manual Integrations  
APPROVED

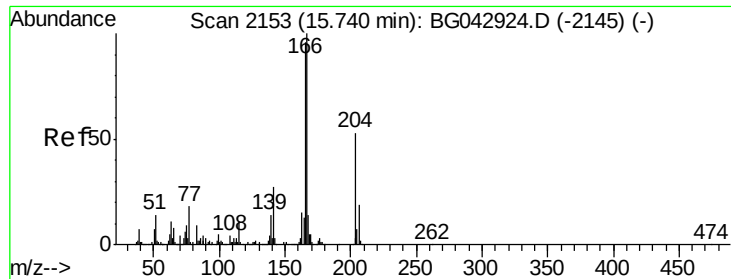
mohammad  
10/8/2019 12:22:47 PM



#57  
2,4-Dinitrotoluene  
Concen: 155.808 ng  
RT: 15.04 min Scan# 2033  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 165     | 100   | 198152 |       |       |
| 63      | 44.1  | 36.5   | 54.7  |       |
| 89      | 69.3  | 55.5   | 83.3  |       |
| 182     | 2.7   | 2.4    | 3.6   |       |





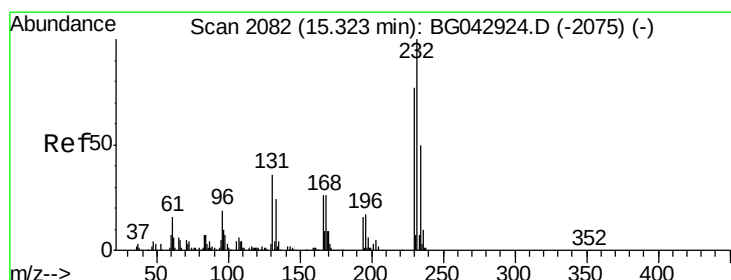
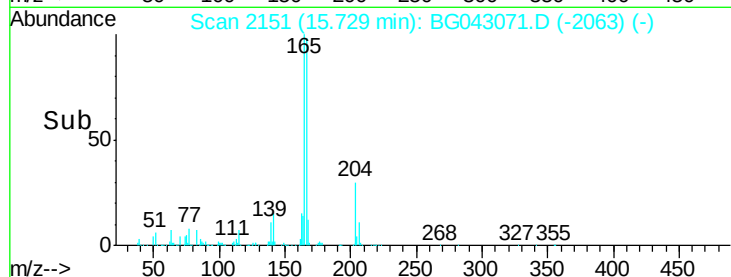
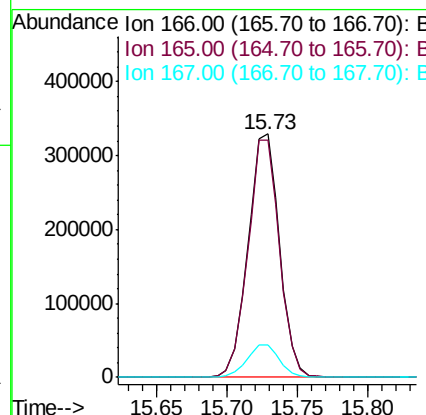
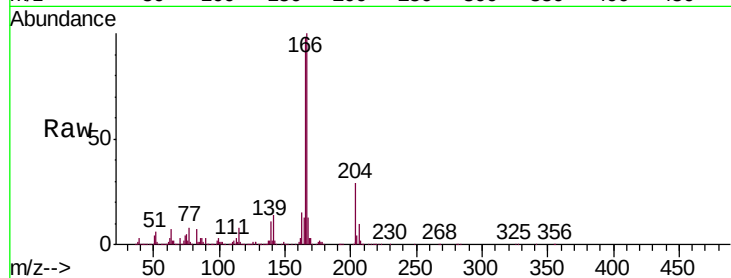
#58  
 Fluorene  
 Concen: 127.927 ng  
 RT: 15.73 min Scan# 2151  
 Delta R.T. -0.01 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.6  | 77.1  | 115.7 |
| 167     | 13.5  | 11.0  | 16.6  |

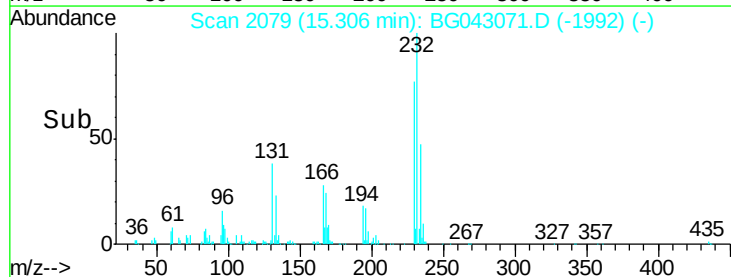
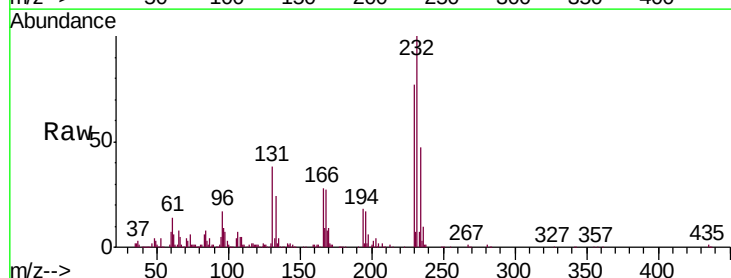
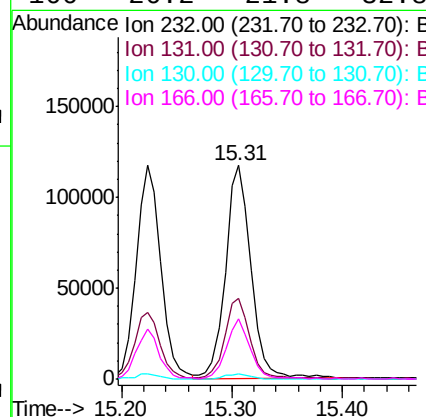
Manual Integrations  
 APPROVED

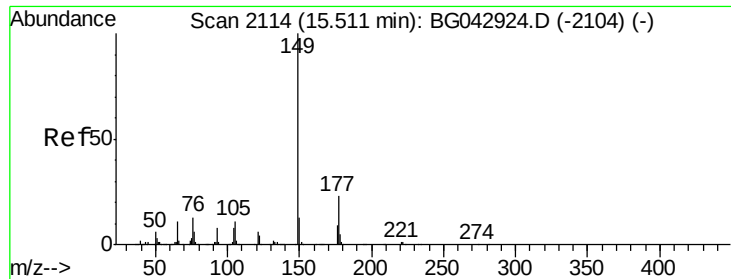
mohammad  
 10/8/2019 12:22:47 PM



#59  
 2,3,4,6-Tetrachlorophenol  
 Concen: 142.825 ng  
 RT: 15.31 min Scan# 2079  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 232     | 100   |       |       |
| 131     | 36.2  | 29.6  | 44.4  |
| 130     | 2.3   | 1.9   | 2.9   |
| 166     | 26.2  | 21.8  | 32.8  |





#60

Diethylphthalate

Concen: 127.286 ng

RT: 15.49 min Scan# 2111

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

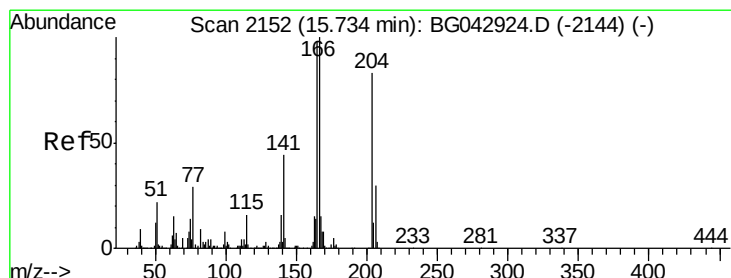
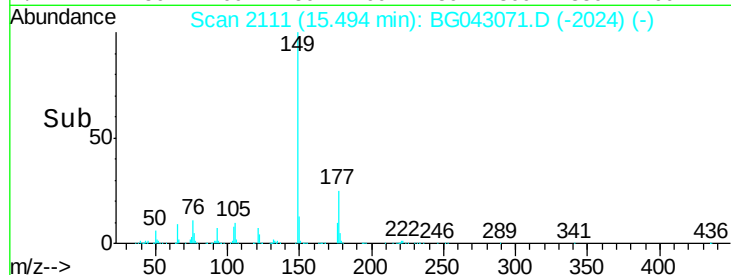
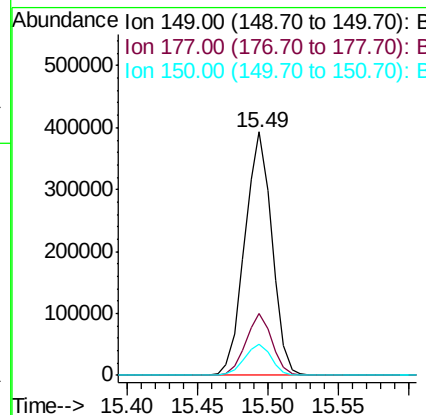
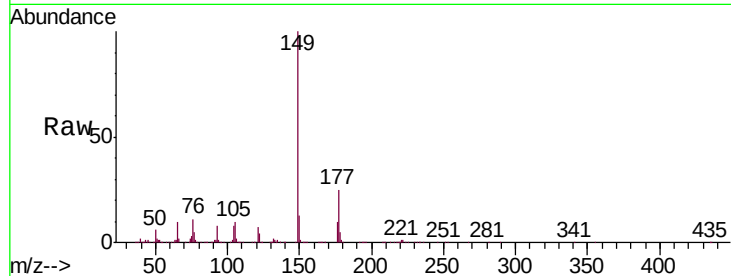
ClientSampleId :

HR-05-100219MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 528273 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 177       | 25.4  | 18.8  | 28.2   |
| 150       | 12.6  | 10.6  | 15.8   |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#61

4-Chlorophenyl-phenylether

Concen: 131.871 ng

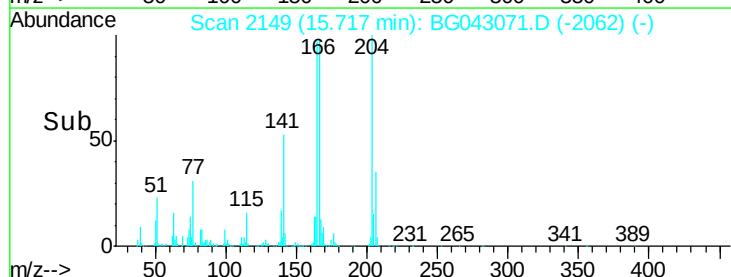
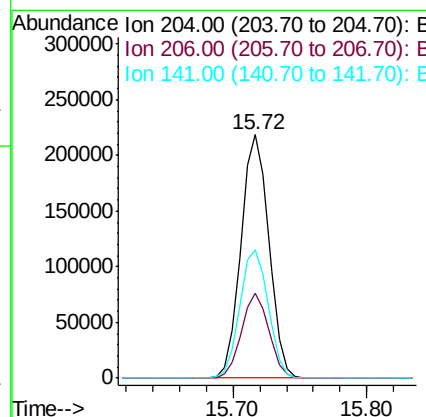
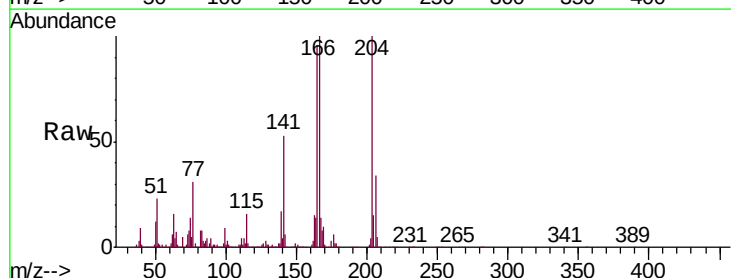
RT: 15.72 min Scan# 2149

Delta R.T. -0.02 min

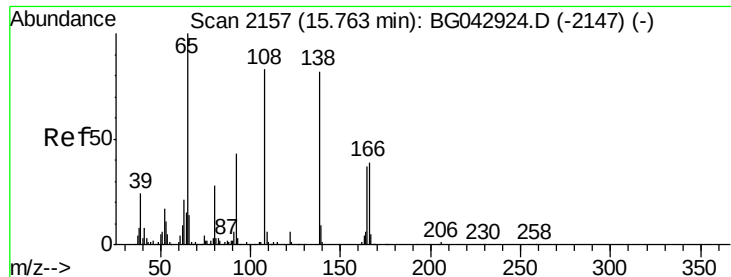
Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 204   | Resp: | 316583 |
| Ion Ratio | Lower | Upper |        |
| 204       | 100   |       |        |
| 206       | 34.7  | 28.5  | 42.7   |
| 141       | 52.8  | 42.4  | 63.6   |







#62

4-Nitroaniline

Concen: 26.595 ng m

RT: 15.79 min Scan# 2161

Delta R.T. 0.02 min

Lab File: BG043071.D

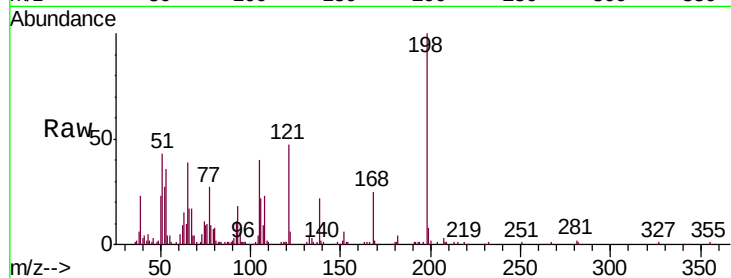
Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

ClientSampleId :

HR-05-100219MS



Tgt Ion: 138 Resp: 26032

Ion Ratio Lower Upper

138 100

92 53.3 32.9 72.9

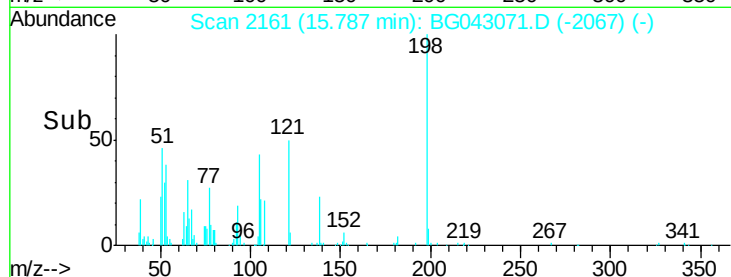
108 104.9 81.3 121.3

Manual Integrations

APPROVED

mohammad

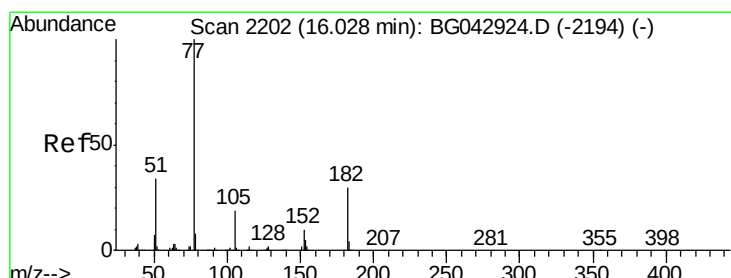
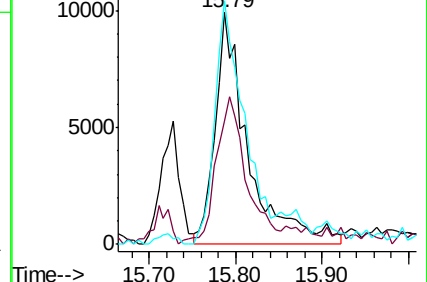
10/8/2019 12:22:47 PM



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E



#63

Azobenzene

Concen: 11.877 ng

RT: 16.01 min Scan# 2199

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Tgt Ion: 77 Resp: 44876

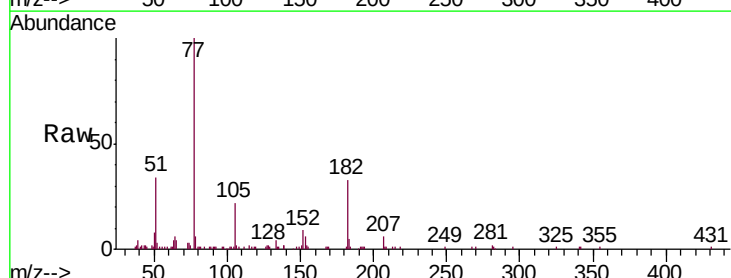
Ion Ratio Lower Upper

77 100

182 32.7 10.2 50.2

105 21.8 0.0 39.1

51 33.9 13.9 53.9

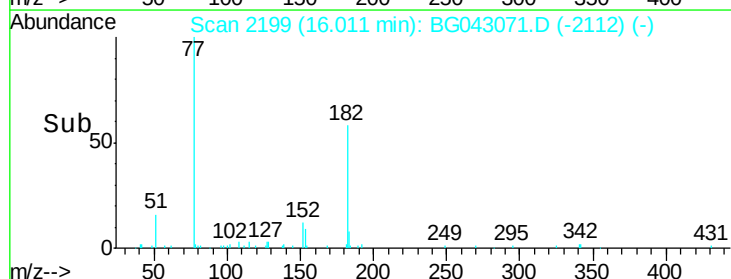
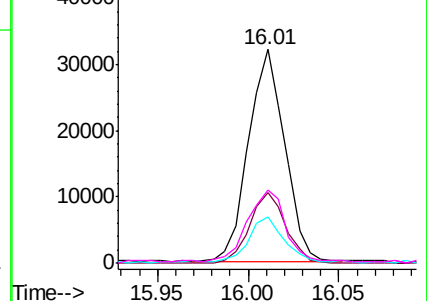


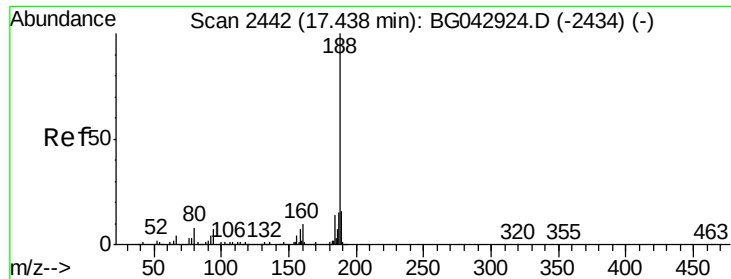
Abundance Ion 77.00 (76.70 to 77.70): BG

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BG





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.42 min Scan# 2439

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

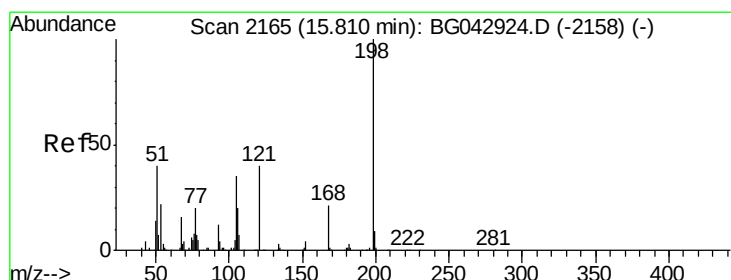
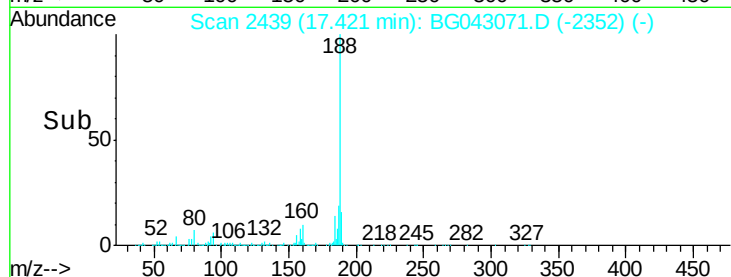
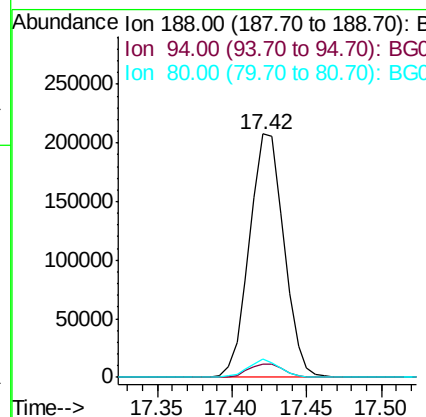
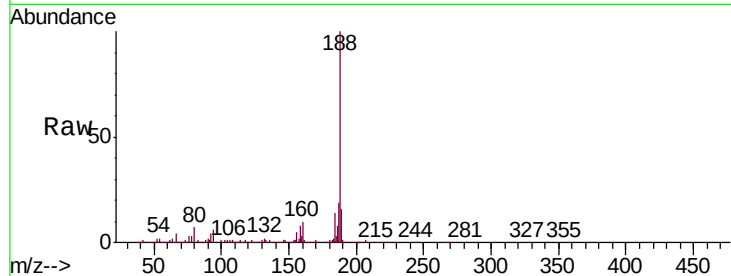
ClientSampleId :

HR-05-100219MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 331378 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 5.6   | 5.7   | 8.5#   |
| 80        | 7.4   | 6.5   | 9.7    |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#65

4,6-Dinitro-2-methylphenol

Concen: 70.560 ng

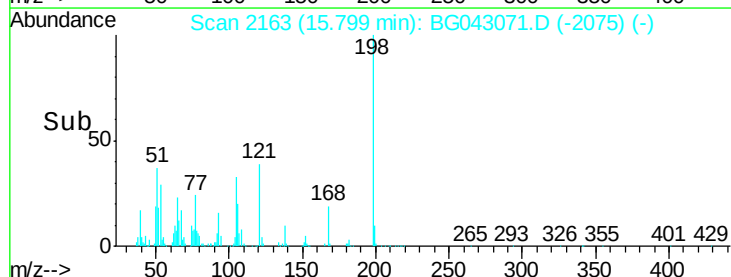
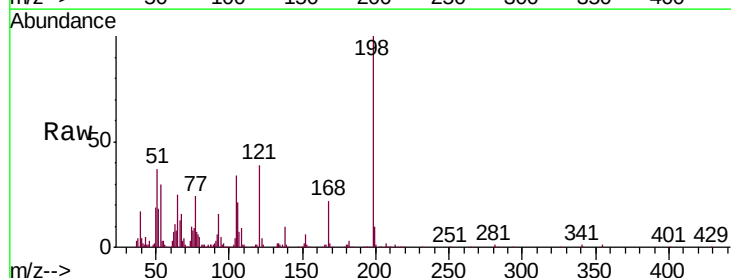
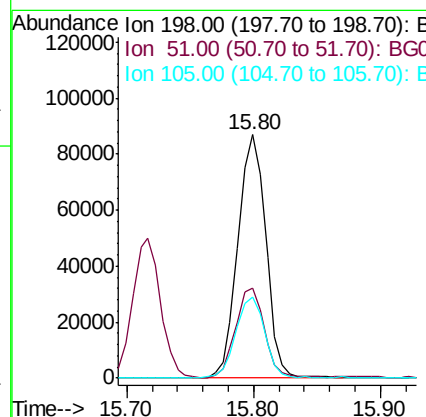
RT: 15.80 min Scan# 2163

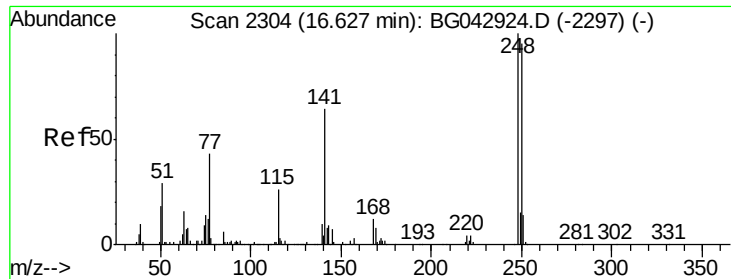
Delta R.T. -0.01 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 198   | Resp: | 132310 |
| Ion Ratio | Lower | Upper |        |
| 198       | 100   |       |        |
| 51        | 37.2  | 25.3  | 65.3   |
| 105       | 33.5  | 16.6  | 56.6   |





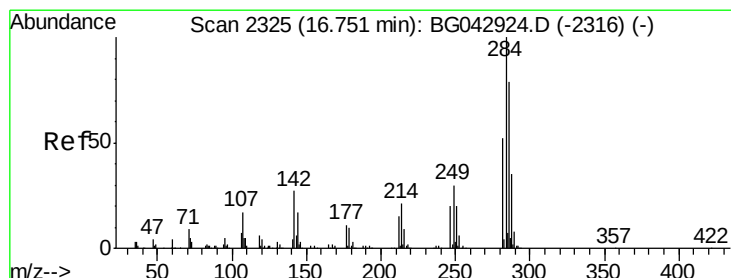
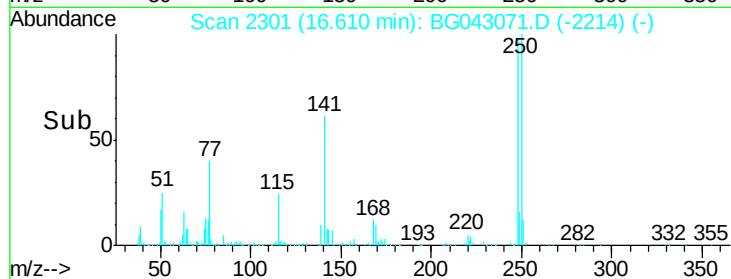
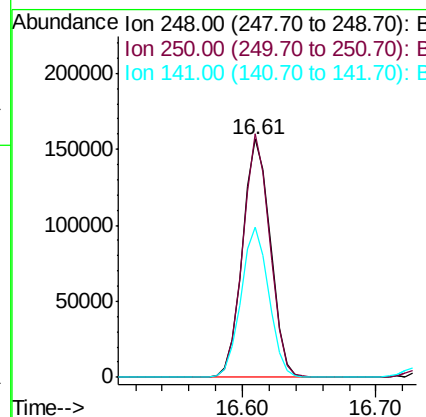
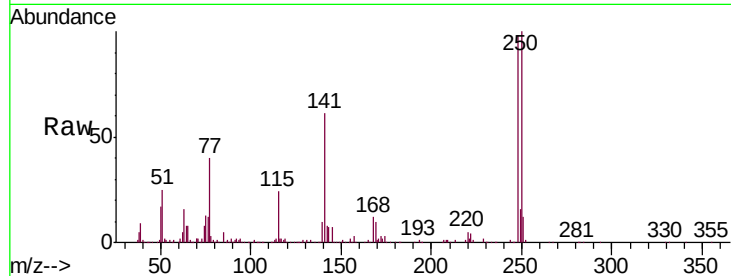
#67  
4-Bromophenyl-phenylether  
Concen: 54.412 ng  
RT: 16.61 min Scan# 2301  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 102.1 | 75.8  | 113.8 |
| 141     | 62.8  | 51.1  | 76.7  |

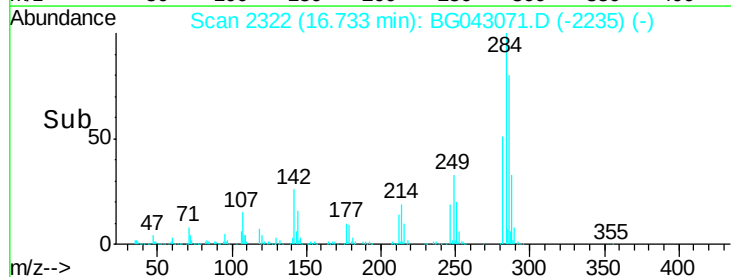
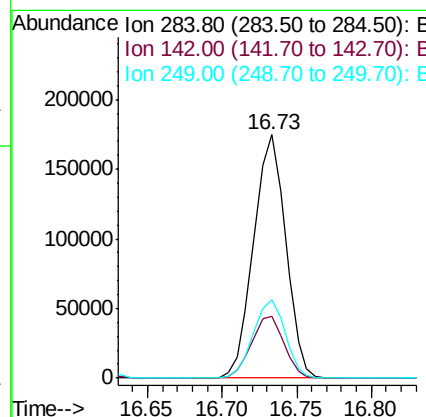
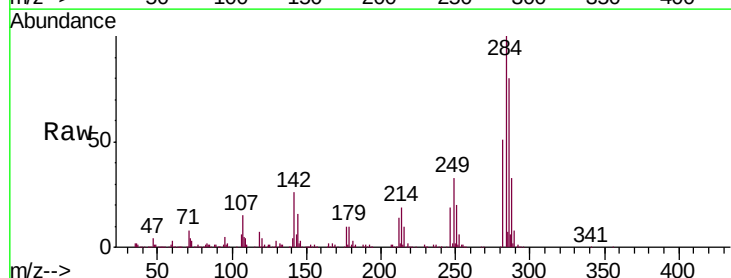
Manual Integrations  
APPROVED

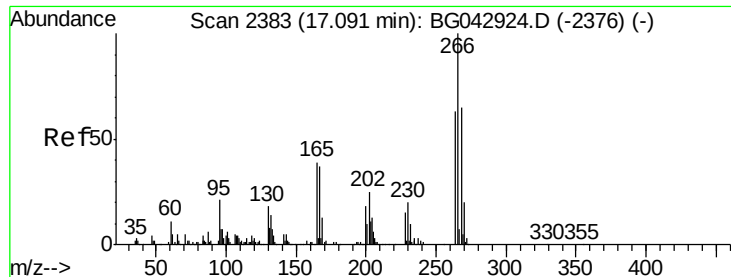
mohammad  
10/8/2019 12:22:47 PM



#68  
Hexachlorobenzene  
Concen: 56.186 ng  
RT: 16.73 min Scan# 2322  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 25.5  | 21.6  | 32.4  |
| 249     | 32.5  | 24.1  | 36.1  |





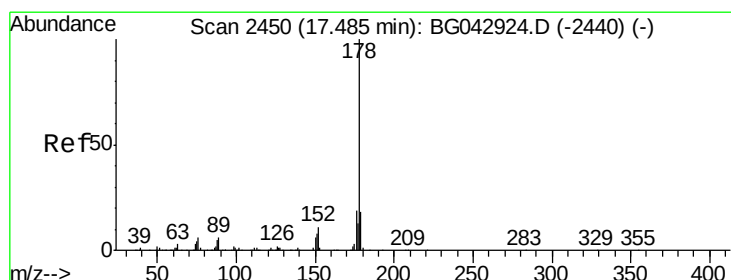
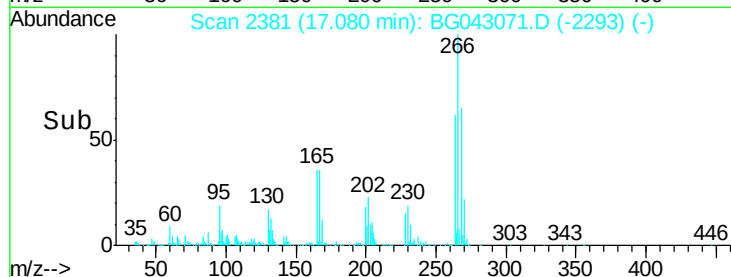
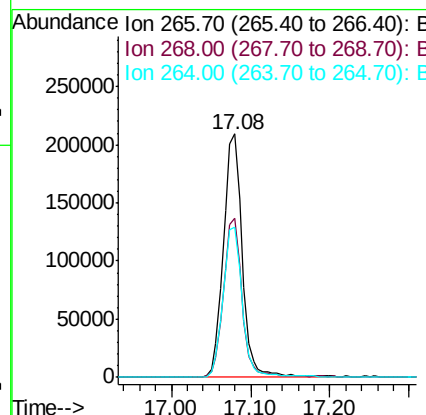
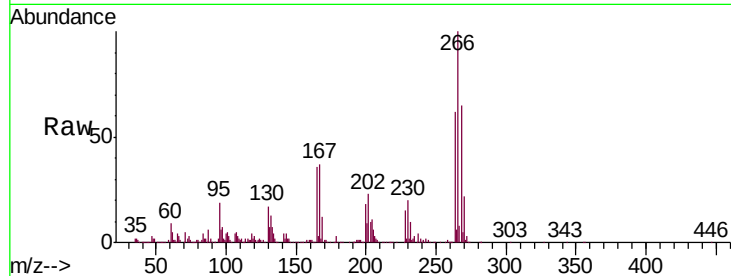
#70  
 Pentachlorophenol  
 Concen: 129.855 ng  
 RT: 17.08 min Scan# 2381  
 Delta R.T. -0.01 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 266     | 100   | 346991 |       |       |
| 268     | 65.4  | 52.2   | 78.2  |       |
| 264     | 61.8  | 50.7   | 76.1  |       |

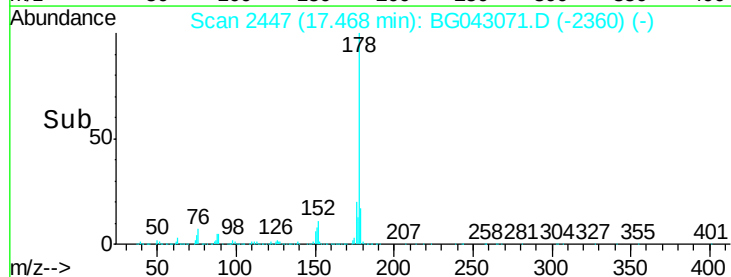
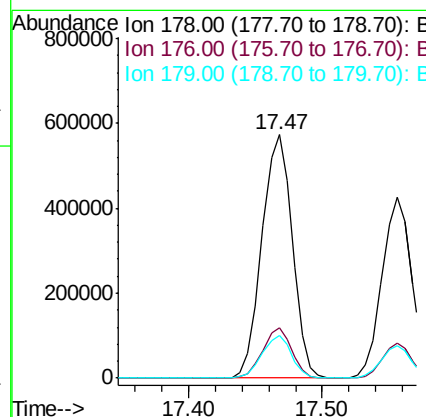
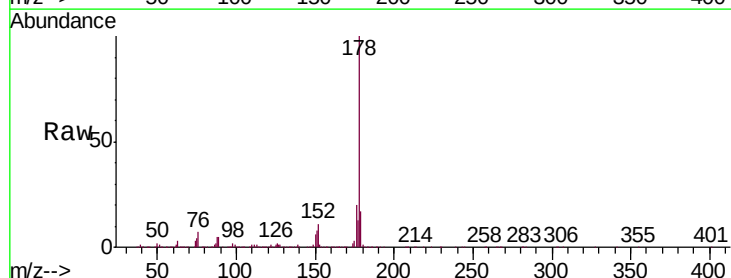
Manual Integrations  
 APPROVED

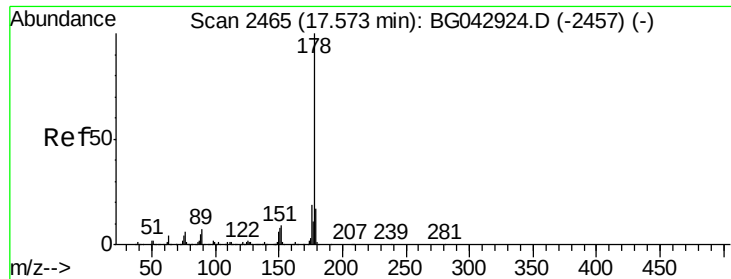
mohammad  
 10/8/2019 12:22:47 PM



#71  
 Phenanthrene  
 Concen: 55.783 ng  
 RT: 17.47 min Scan# 2447  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 178     | 100   | 902455 |       |       |
| 176     | 20.5  | 15.1   | 22.7  |       |
| 179     | 17.3  | 14.1   | 21.1  |       |





#72

Anthracene

Concen: 40.855 ng

RT: 17.56 min Scan# 2462

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

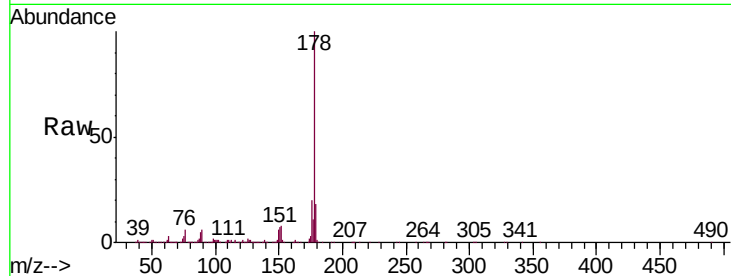
ClientSampleId :

HR-05-100219MS

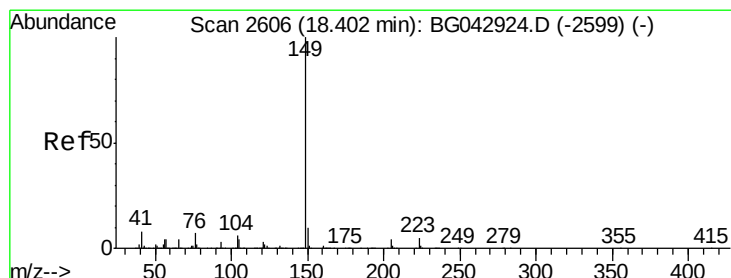
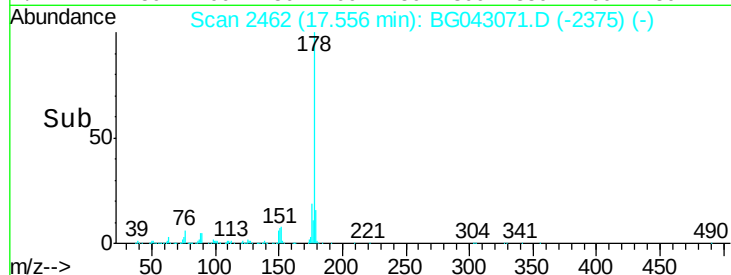
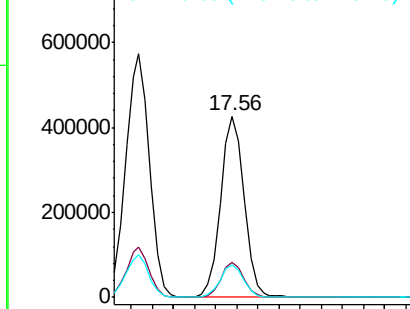
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 659836 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 19.5  | 15.5  | 23.3   |
| 179       | 17.9  | 13.5  | 20.3   |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



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



#74

Di-n-butylphthalate

Concen: 51.776 ng

RT: 18.38 min Scan# 2603

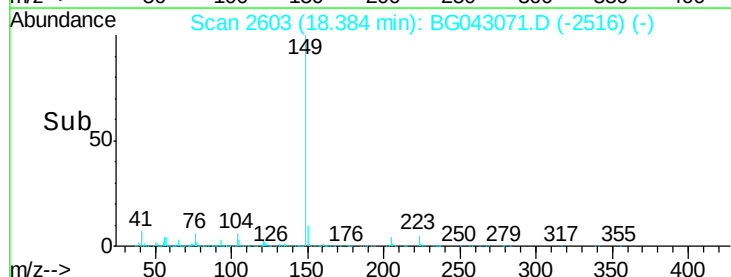
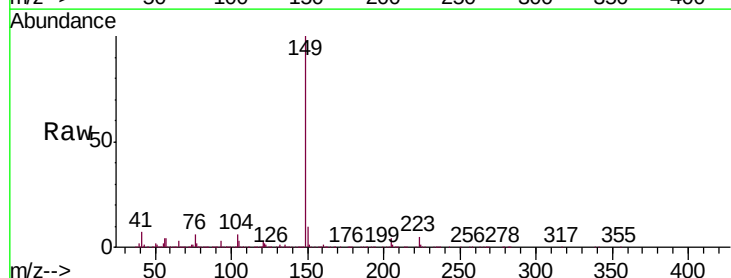
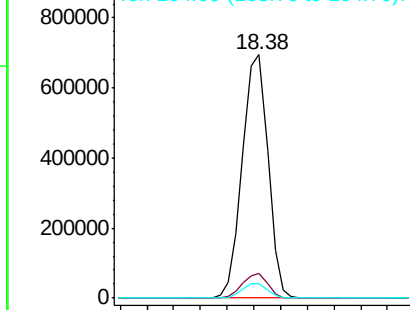
Delta R.T. -0.02 min

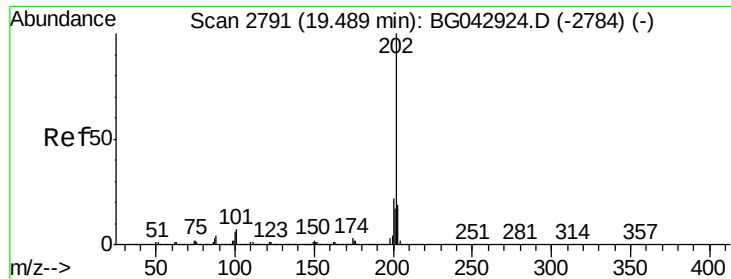
Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 149   | Resp: | 925198 |
| Ion Ratio | Lower | Upper |        |
| 149       | 100   |       |        |
| 150       | 10.1  | 7.7   | 11.5   |
| 104       | 5.8   | 5.0   | 7.6    |

Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 39.803 ng

RT: 19.47 min Scan# 2788

Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

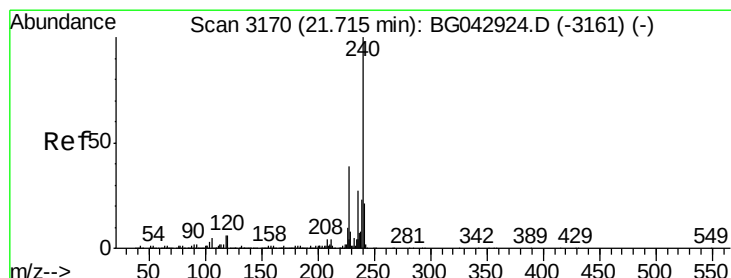
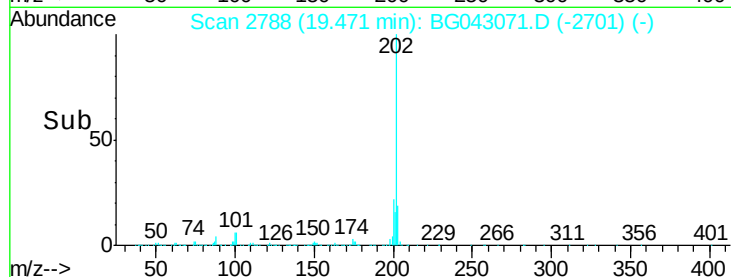
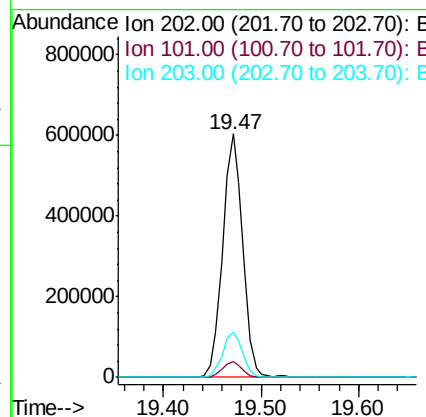
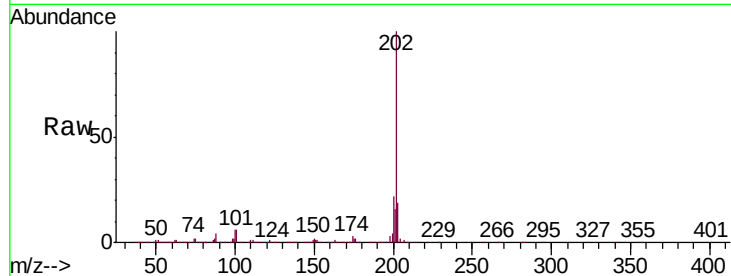
ClientSampleId :

HR-05-100219MS

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 202 | 100  |       | 851709 |       |       |
| 101 | 6.4  | 0.0   | 27.3   |       |       |
| 203 | 18.8 | 0.0   | 39.5   |       |       |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#76

Chrysene-d12

Concen: 20.000 ng

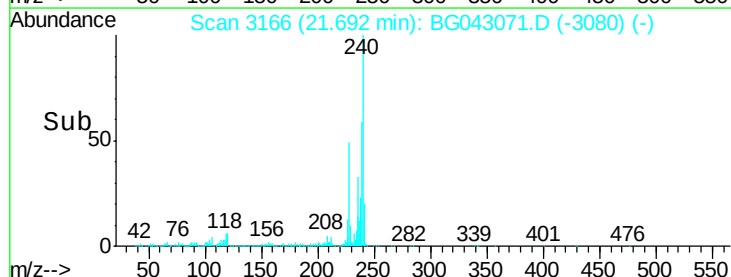
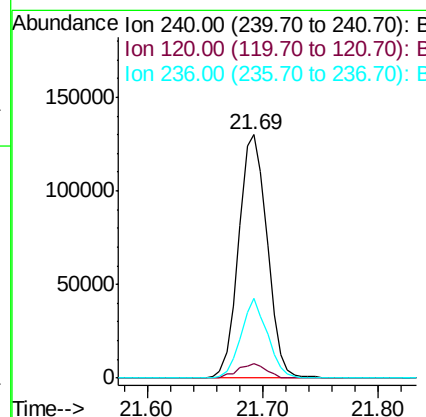
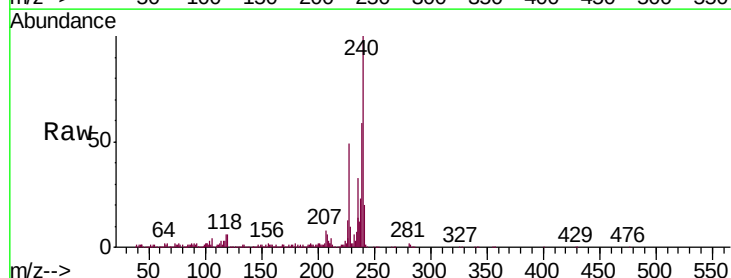
RT: 21.69 min Scan# 3166

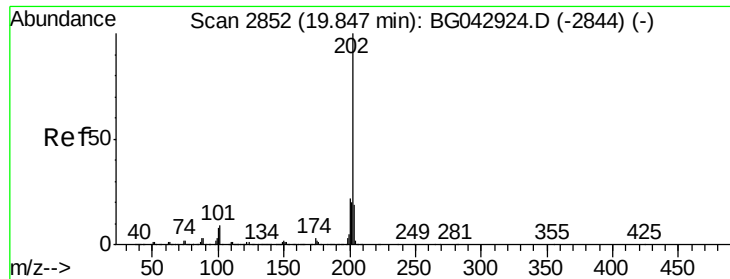
Delta R.T. -0.02 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 240 | 100  |       | 222071 |       |       |
| 120 | 5.7  | 4.8   | 7.2    |       |       |
| 236 | 32.5 | 21.4  | 32.0#  |       |       |





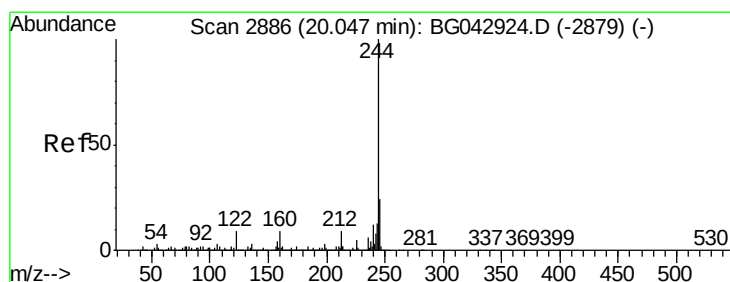
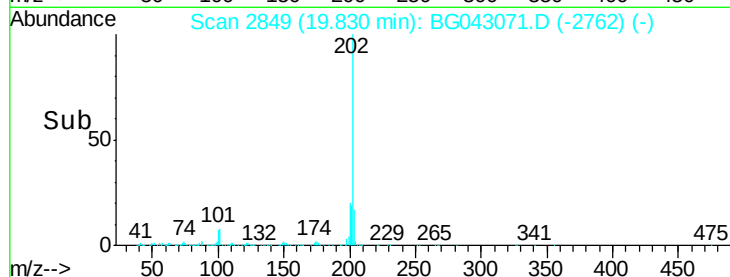
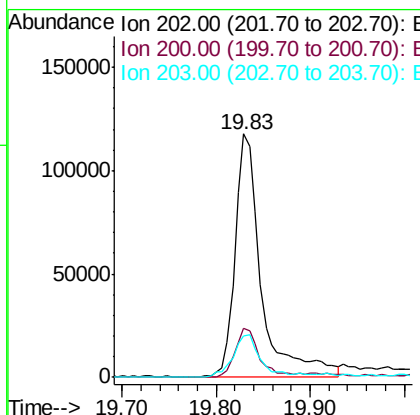
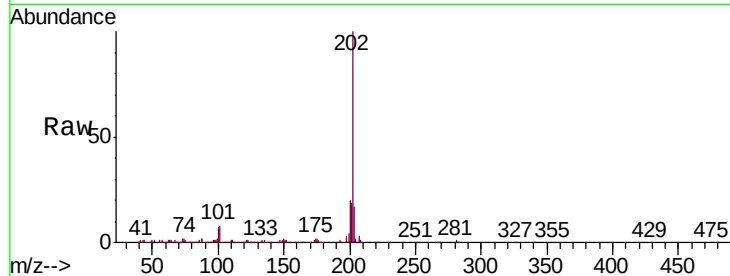
#78  
 Pyrene  
 Concen: 17.379 ng  
 RT: 19.83 min Scan# 2849  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 230357 |       |       |
| 200     | 20.0  | 17.6   | 26.4  |       |
| 203     | 17.0  | 15.2   | 22.8  |       |

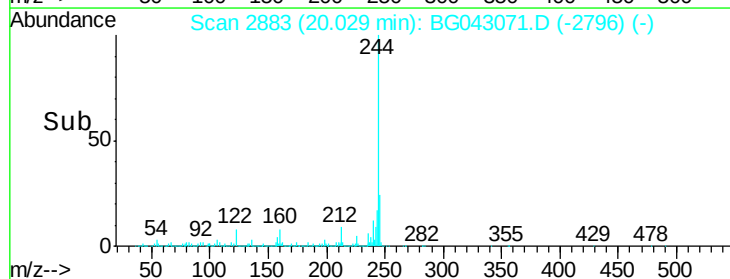
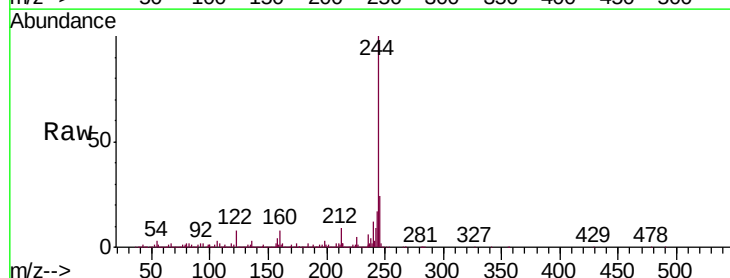
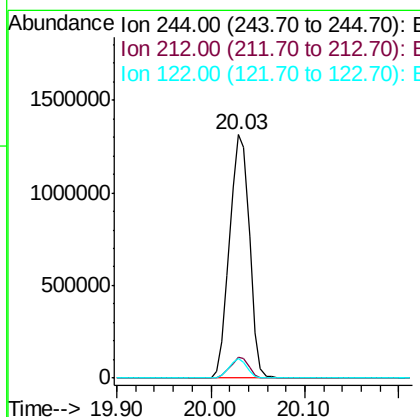
Manual Integrations  
 APPROVED

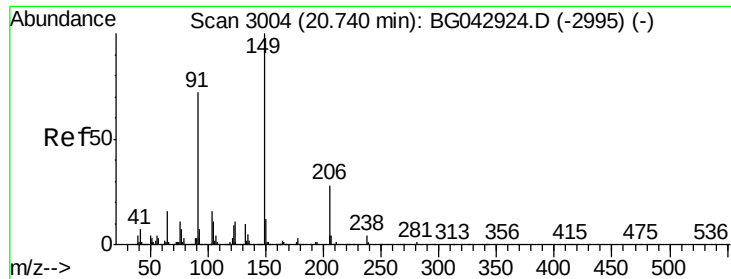
mohammad  
 10/8/2019 12:22:47 PM



#79  
 Terphenyl-d14  
 Concen: 185.730 ng  
 RT: 20.03 min Scan# 2883  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 244     | 100   | 1935600 |       |       |
| 212     | 8.7   | 7.4     | 11.0  |       |
| 122     | 8.0   | 7.0     | 10.4  |       |





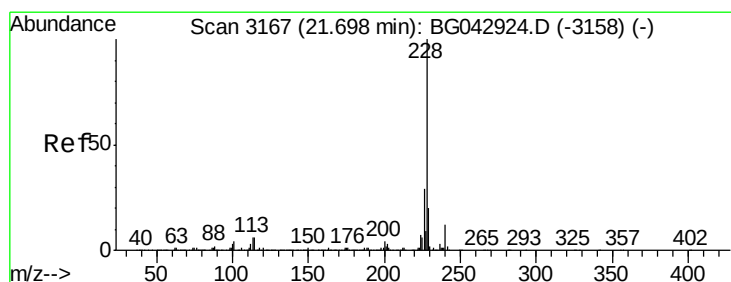
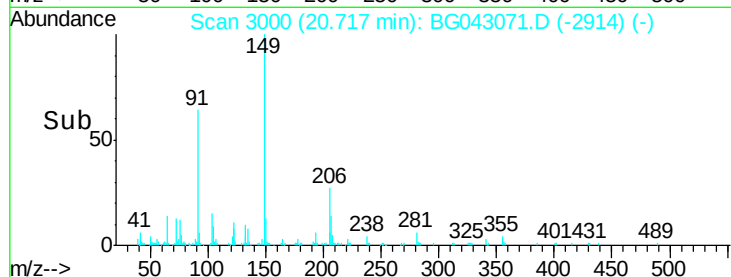
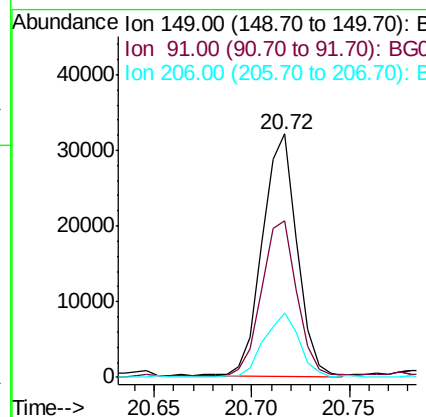
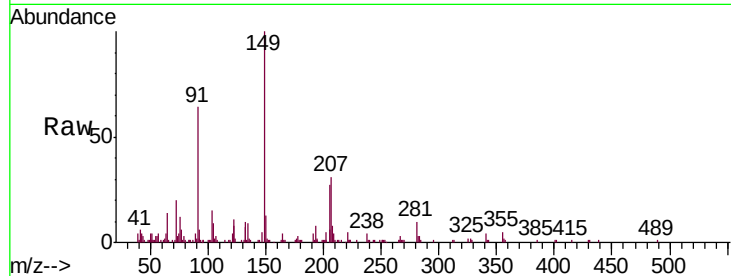
#80  
Butylbenzylphthalate  
Concen: 7.795 ng  
RT: 20.72 min Scan# 3000  
Delta R.T. -0.02 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 64.4  | 57.7  | 86.5  |
| 206     | 26.6  | 22.6  | 33.8  |

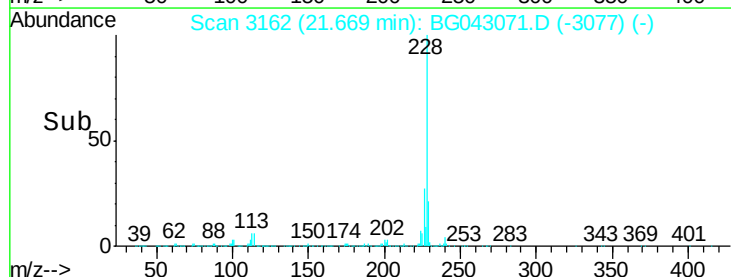
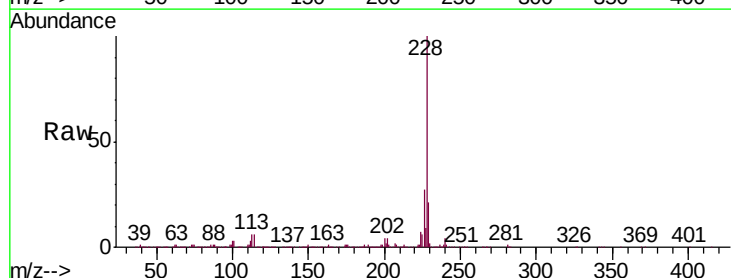
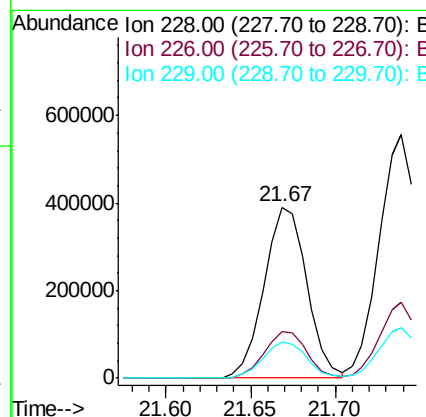
Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM

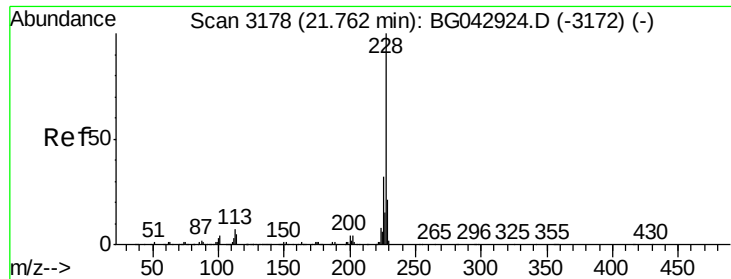


#81  
Benzo(a)anthracene  
Concen: 49.429 ng  
RT: 21.67 min Scan# 3162  
Delta R.T. -0.03 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 23.0  | 34.4  |
| 229     | 21.3  | 16.3  | 24.5  |







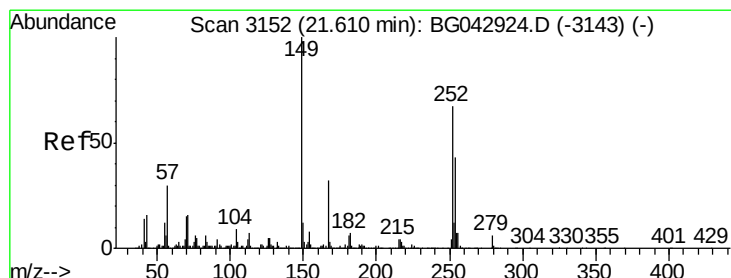
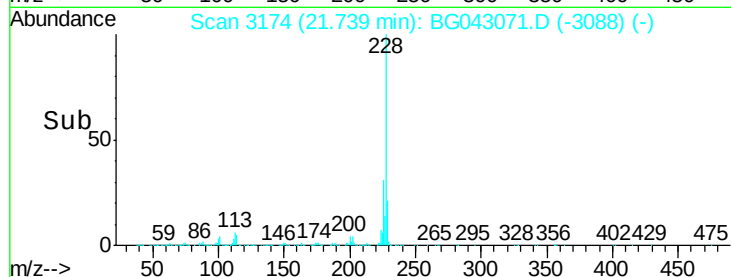
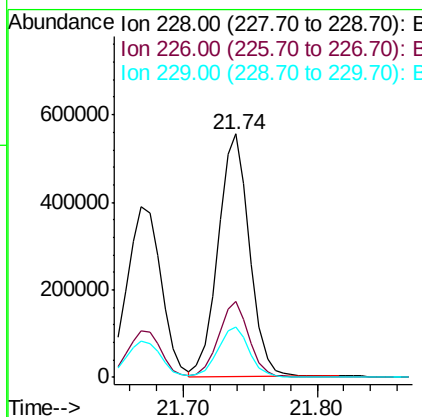
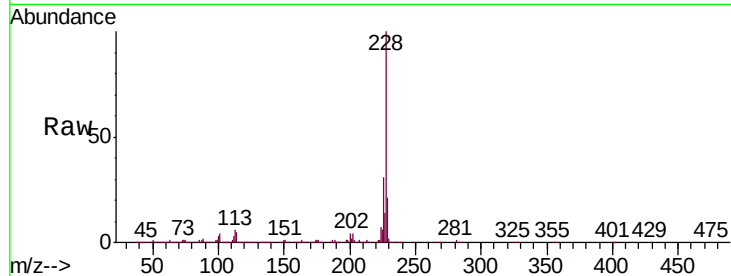
#83  
 Chrysene  
 Concen: 67.956 ng  
 RT: 21.74 min Scan# 3174  
 Delta R.T. -0.02 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

Instrument :  
 BNA\_G  
 ClientSampleId :  
 HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.1  | 25.6  | 38.4  |
| 229     | 20.8  | 16.9  | 25.3  |

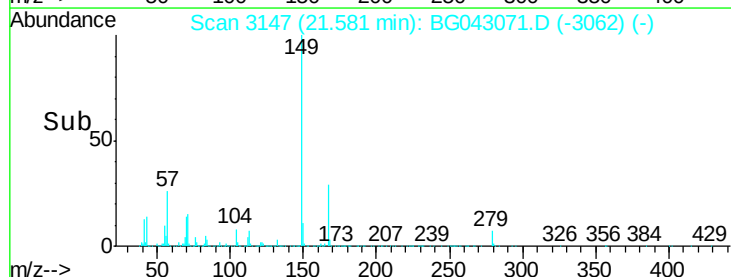
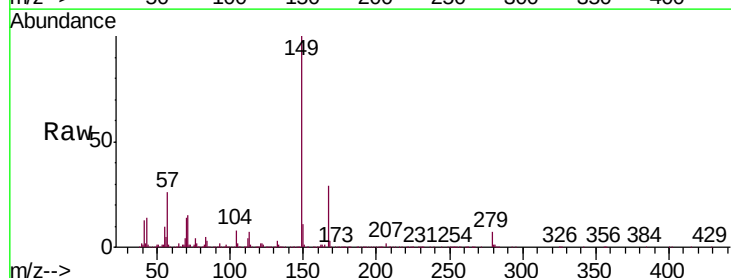
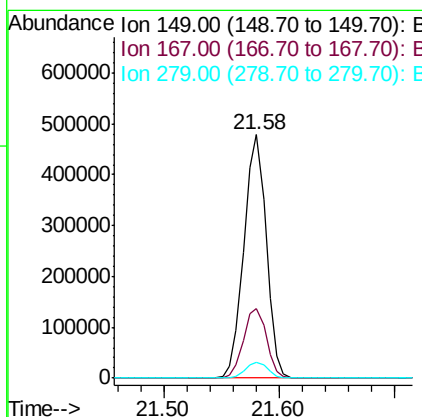
Manual Integrations  
 APPROVED

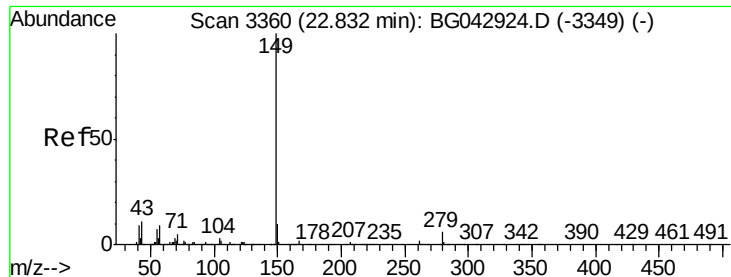
mohammad  
 10/8/2019 12:22:47 PM



#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 89.866 ng  
 RT: 21.58 min Scan# 3147  
 Delta R.T. -0.03 min  
 Lab File: BG043071.D  
 Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.8  | 25.4  | 38.2  |
| 279     | 6.5   | 5.1   | 7.7   |





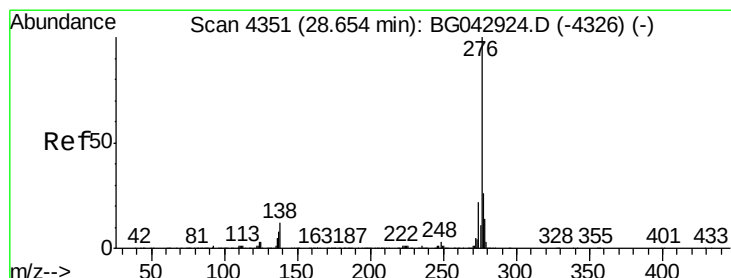
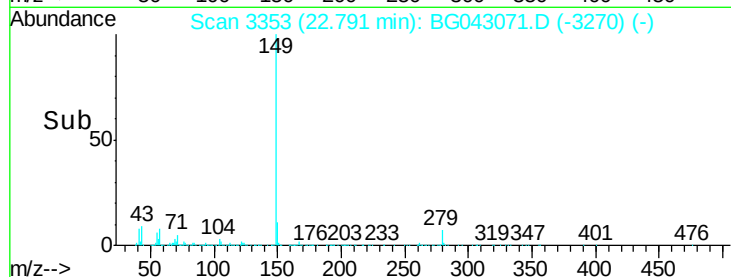
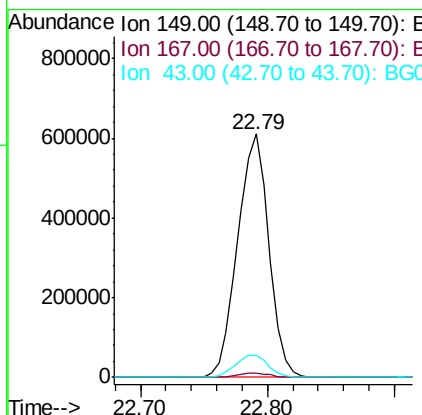
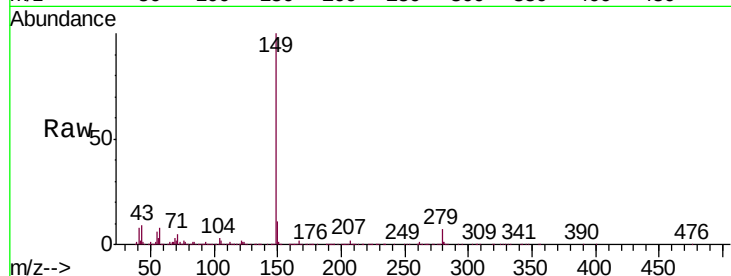
#85  
Di-n-octyl phthalate  
Concen: 88.485 ng  
RT: 22.79 min Scan# 3353  
Delta R.T. -0.04 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 2.0   | 1.4   | 2.0   |
| 43      | 9.4   | 8.7   | 13.1  |

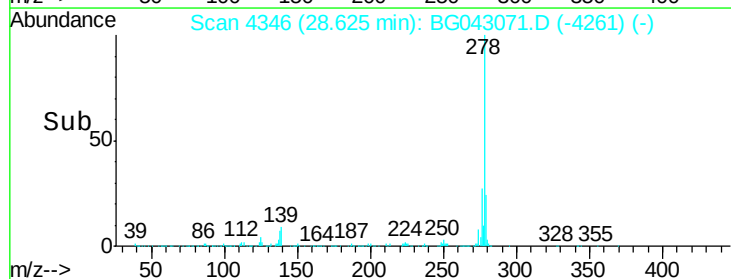
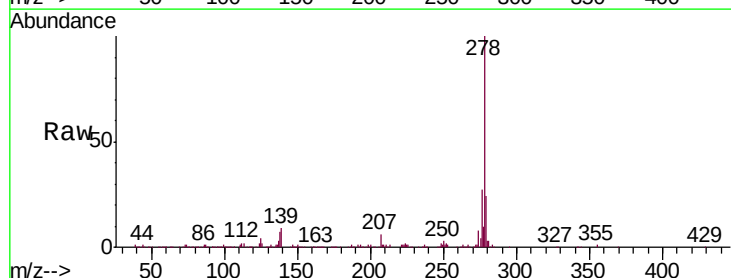
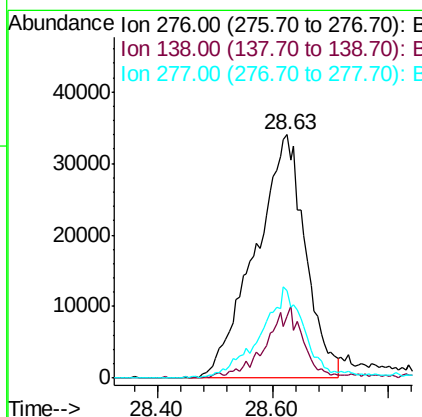
Manual Integrations  
APPROVED

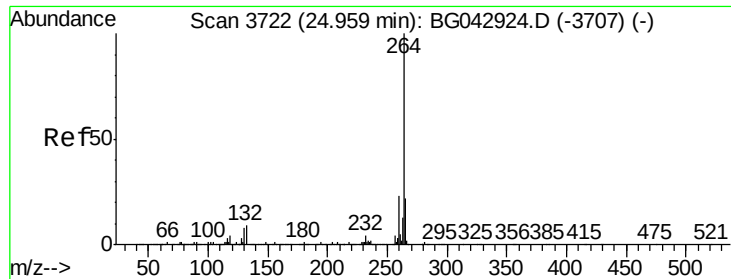
mohammad  
10/8/2019 12:22:47 PM



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 12.301 ng  
RT: 28.63 min Scan# 4346  
Delta R.T. -0.03 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 9.8   | 7.0   | 10.6  |
| 277     | 32.1  | 20.9  | 31.3  |





#87

Perylene-d12

Concen: 20.000 ng

RT: 24.91 min Scan# 3713

Delta R.T. -0.05 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

Instrument :

BNA\_G

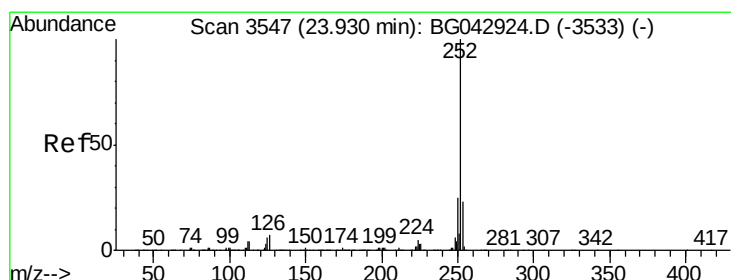
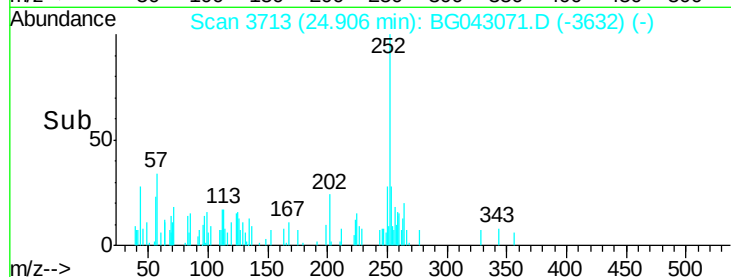
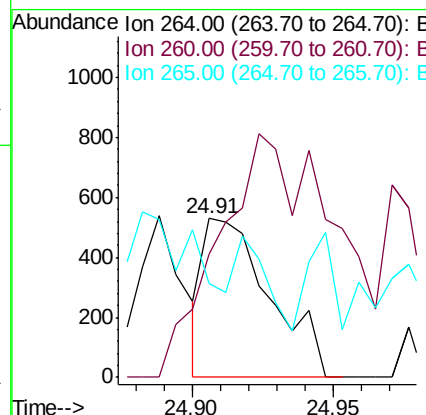
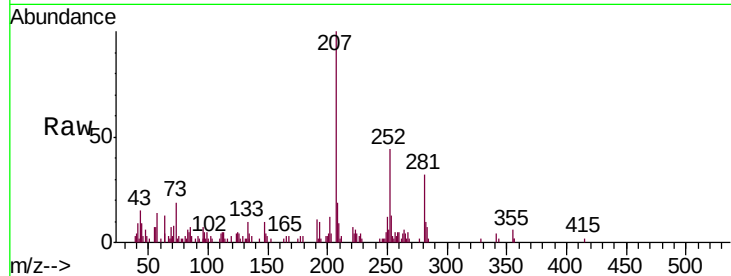
ClientSampleId :

HR-05-100219MS

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 865   |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 77.5  | 18.7  | 28.1# |
| 265       | 59.2  | 17.7  | 26.5# |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#88

Benzo(b)fluoranthene

Concen: 13974.290 ng

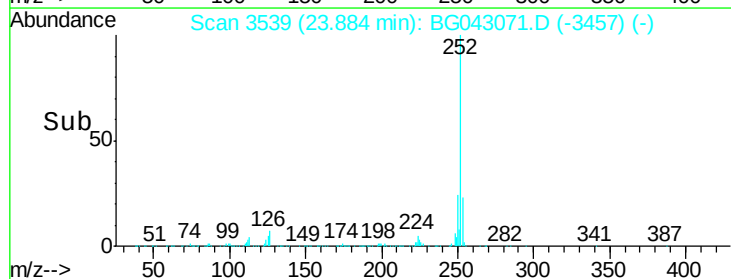
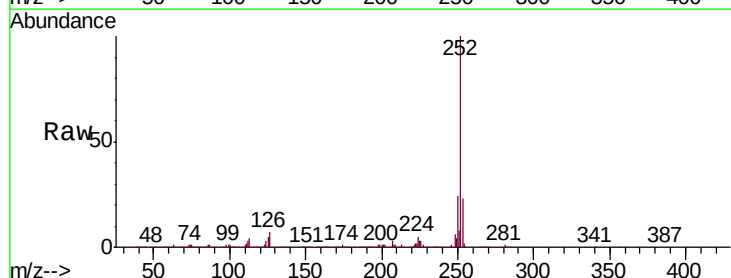
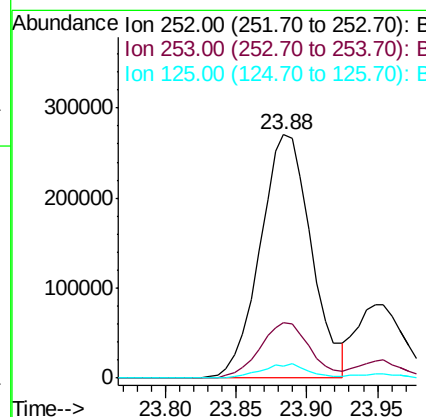
RT: 23.88 min Scan# 3539

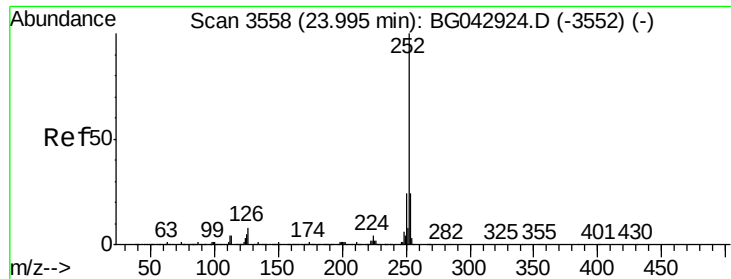
Delta R.T. -0.05 min

Lab File: BG043071.D

Acq: 7 Oct 2019 17:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 683957 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.0  | 18.2  | 27.2   |
| 125       | 5.2   | 4.6   | 7.0    |





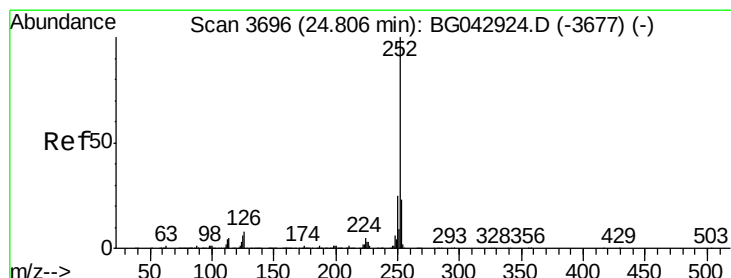
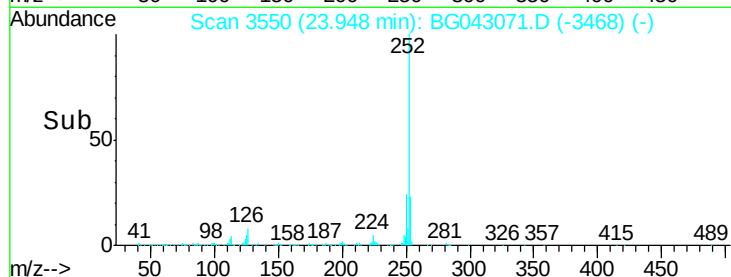
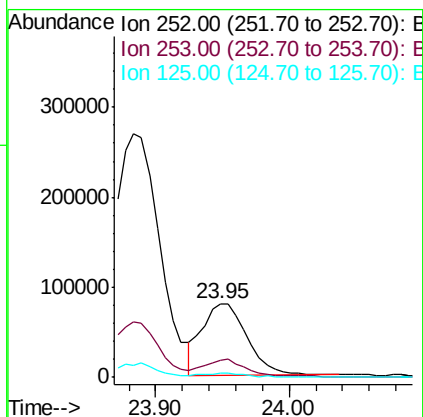
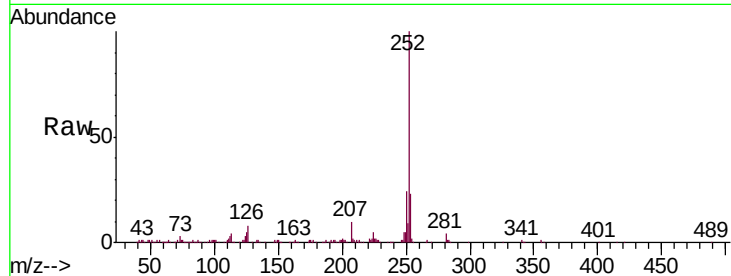
#89  
Benzo(k)fluoranthene  
Concen: 3867.729 ng  
RT: 23.95 min Scan# 3550  
Delta R.T. -0.05 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 18.9  | 28.3  |
| 125     | 5.1   | 4.5   | 6.7   |

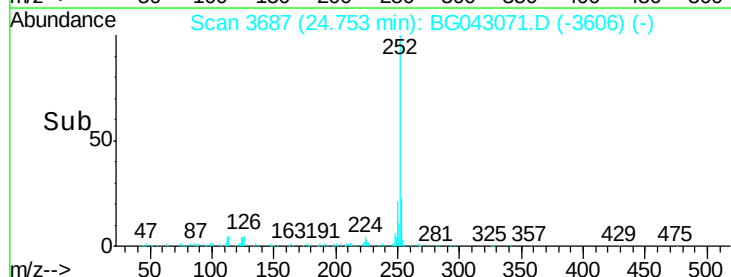
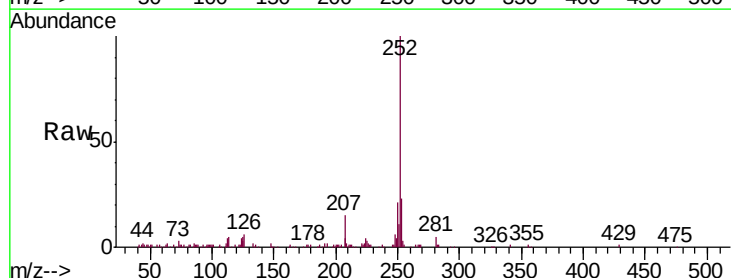
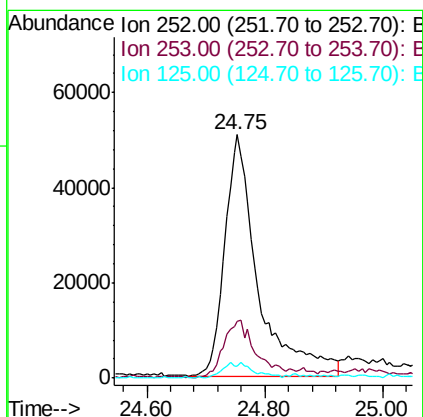
Manual Integrations  
APPROVED

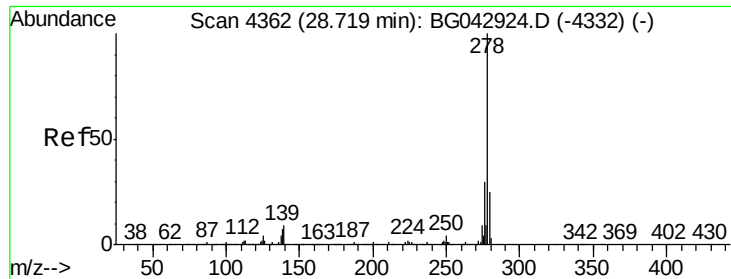
mohammad  
10/8/2019 12:22:47 PM



#90  
Benzo(a)pyrene  
Concen: 4344.714 ng  
RT: 24.75 min Scan# 3687  
Delta R.T. -0.05 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.2  | 27.4  |
| 125     | 4.7   | 5.0   | 7.6   |





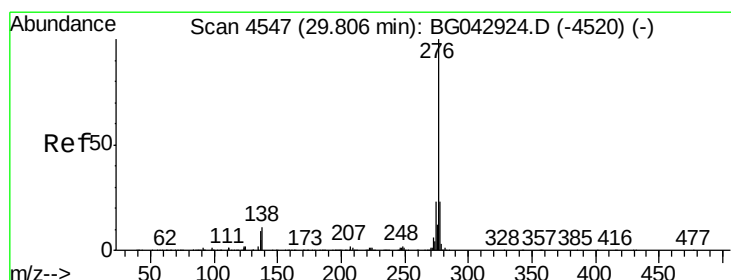
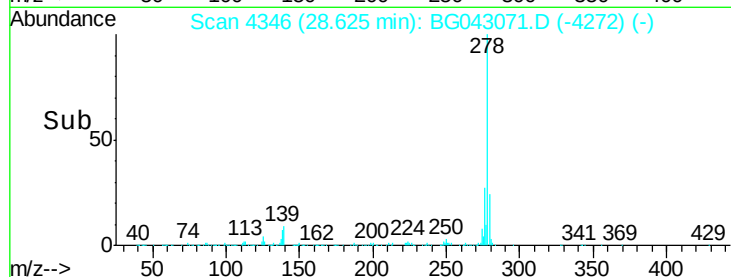
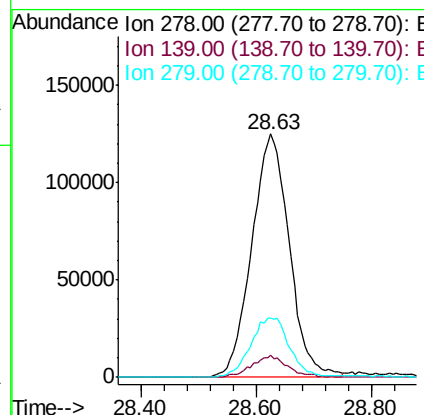
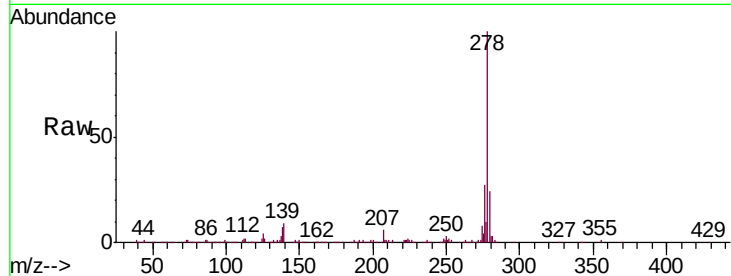
#91  
Dibenzo(a,h)anthracene  
Concen: 11969.612 ng  
RT: 28.63 min Scan# 4346  
Delta R.T. -0.09 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

Instrument :  
BNA\_G  
ClientSampleId :  
HR-05-100219MS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 9.2   | 6.8   | 10.2  |
| 279     | 24.2  | 20.1  | 30.1  |

Manual Integrations  
APPROVED

mohammad  
10/8/2019 12:22:47 PM



#92  
Benzo(g,h,i)perylene  
Concen: 3445.529 ng  
RT: 29.71 min Scan# 4530  
Delta R.T. -0.10 min  
Lab File: BG043071.D  
Acq: 7 Oct 2019 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 21.1  | 18.4  | 27.6  |
| 138     | 11.2  | 8.6   | 12.8  |

