

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG100721\  
 Data File : BG050496.D  
 Acq On : 7 Oct 2021 23:55  
 Operator : CG/JU  
 Sample : M4134-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-01

Quant Time: Oct 08 05:47:01 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG100621.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 06 15:51:01 2021  
 Response via : Initial Calibration

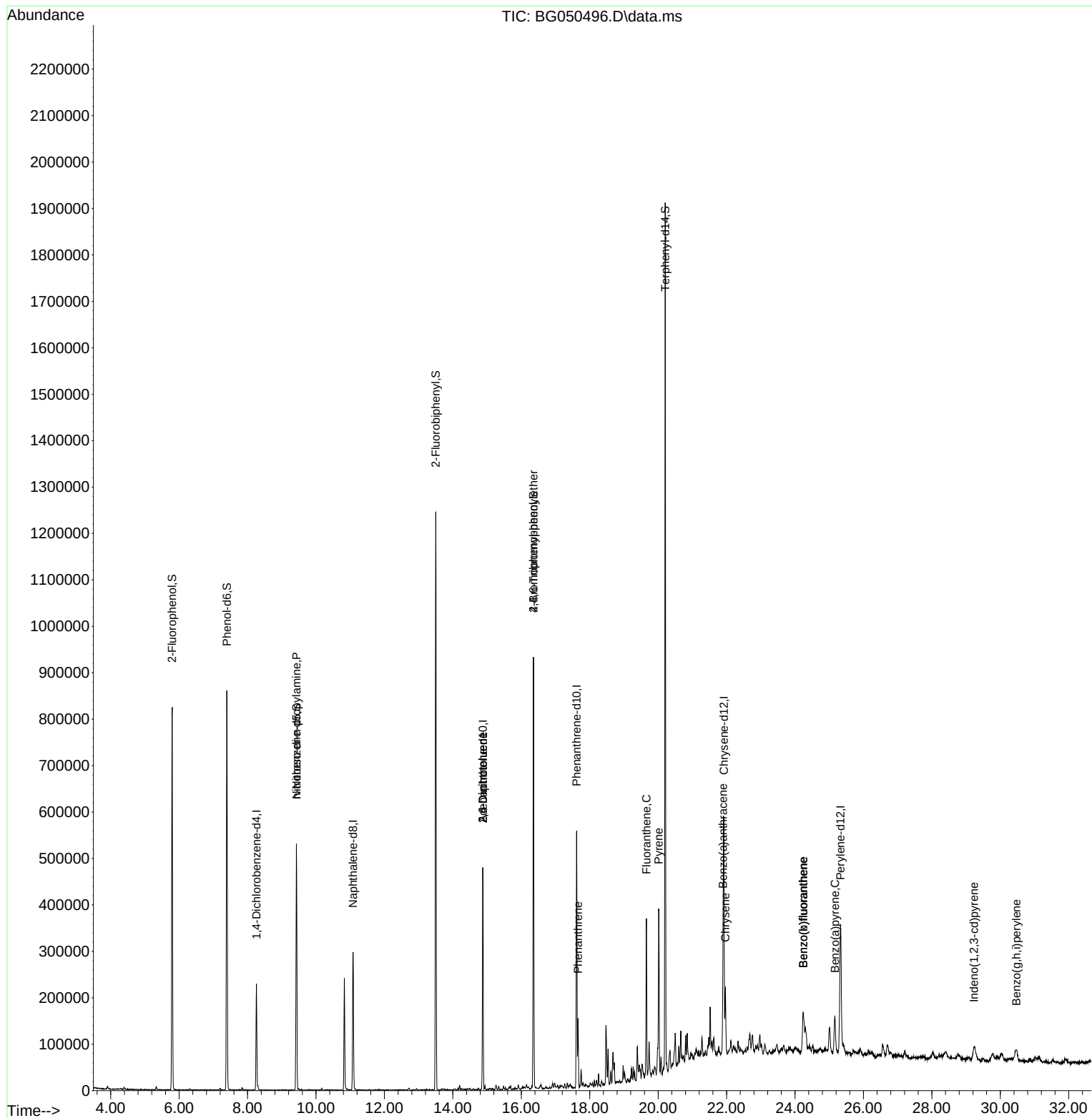
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.259  | 152  | 57814    | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.085 | 136  | 245845   | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.875 | 164  | 158758   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.618 | 188  | 335063   | 20.000    | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.919 | 240  | 289809   | 20.000    | ng    | # 0.00   |
| 86) Perylene-d12              | 25.327 | 264  | 287376   | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.797  | 112  | 346126   | 89.536    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.395  | 99   | 476640   | 85.161    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.428  | 82   | 337176   | 56.774    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.355 | 330  | 126541   | 83.566    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.500 | 172  | 615839   | 58.382    | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.210 | 244  | 851206   | 57.239    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.395  | 77   | 1263     | Below Cal | #     | 10       |
| 19) n-Nitroso-di-n-propyla... | 9.428  | 70   | 47601    | 11.669    | ng    | # 72     |
| 51) 2,6-Dinitrotoluene        | 14.875 | 165  | 20877    | 8.686     | ng    | # 12     |
| 57) 2,4-Dinitrotoluene        | 14.875 | 165  | 20877    | 6.162     | ng    | # 17     |
| 67) 4-Bromophenyl-phenylether | 16.355 | 248  | 10288    | 3.047     | ng    | # 1      |
| 71) Phenanthrene              | 17.660 | 178  | 87543    | 4.958     | ng    | 98       |
| 75) Fluoranthene              | 19.657 | 202  | 203391   | 9.371     | ng    | 96       |
| 78) Pyrene                    | 20.016 | 202  | 226804   | 11.030    | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.896 | 228  | 114343   | 5.963     | ng    | 99       |
| 83) Chrysene                  | 21.966 | 228  | 101373   | 5.620     | ng    | 95       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.234 | 276  | 54898    | 2.743     | ng    | # 87     |
| 88) Benzo(b)fluoranthene      | 24.240 | 252  | 113543   | 6.451     | ng    | # 92     |
| 89) Benzo(k)fluoranthene      | 24.240 | 252  | 113543   | 6.558     | ng    | # 96     |
| 90) Benzo(a)pyrene            | 25.168 | 252  | 88345    | 5.904     | ng    | # 96     |
| 92) Benzo(g,h,i)perylene      | 30.474 | 276  | 51733    | 3.191     | ng    | # 86     |
| -----                         |        |      |          |           |       |          |

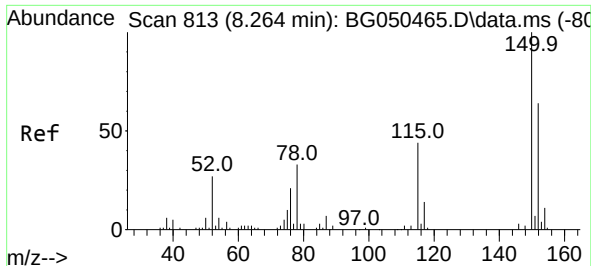
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG100721\  
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QLast Update : Wed Oct 06 15:51:01 2021  
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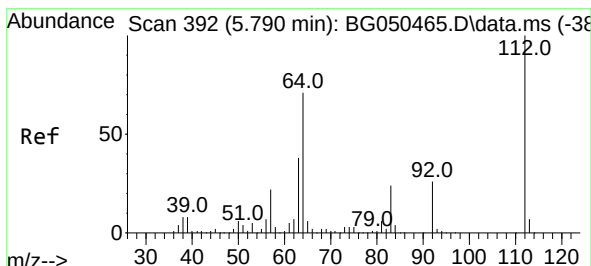
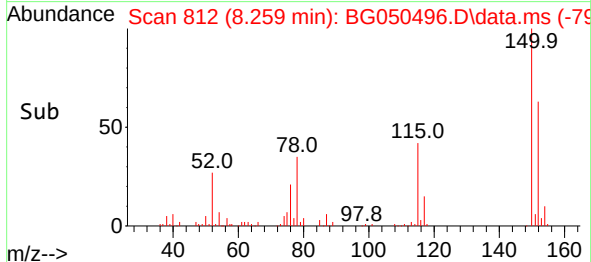
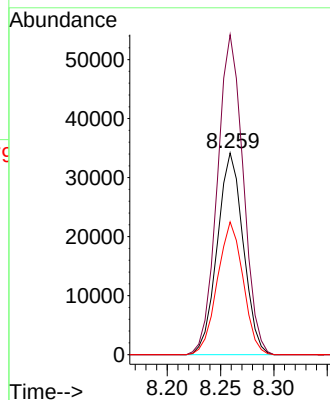
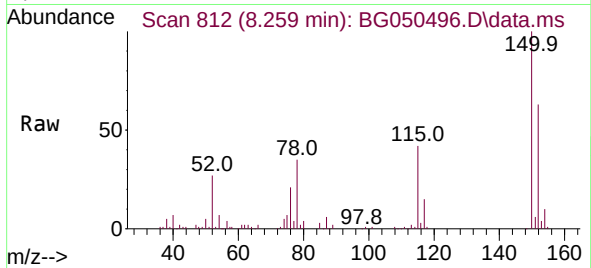




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.259 min Scan# 812  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

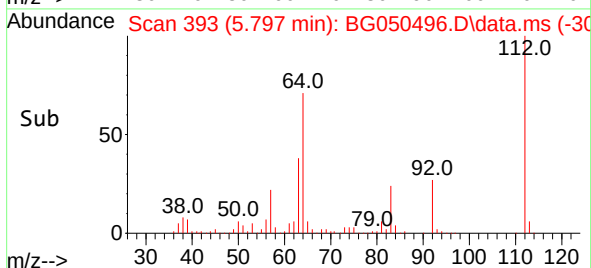
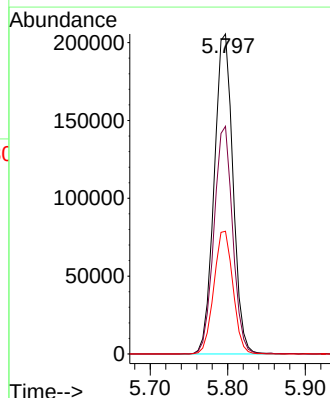
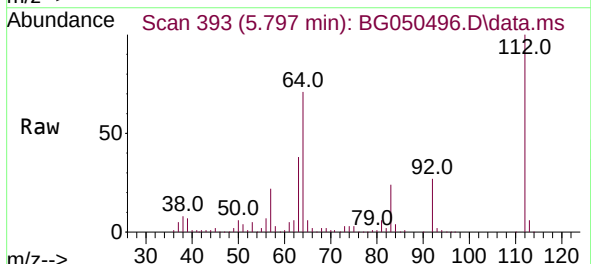
Instrument :  
BNA\_G  
ClientSampleId :  
SP-01

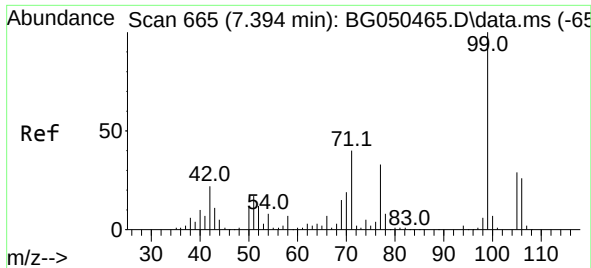
Tgt Ion:152 Resp: 57814  
Ion Ratio Lower Upper  
152 100  
150 158.6 119.4 179.0  
115 65.8 60.2 90.4



#5  
2-Fluorophenol  
Concen: 89.536 ng  
RT: 5.797 min Scan# 393  
Delta R.T. 0.007 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:112 Resp: 346126  
Ion Ratio Lower Upper  
112 100  
64 71.2 46.7 70.1#  
63 38.4 35.3 52.9

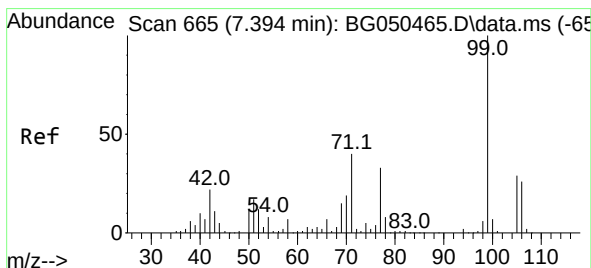
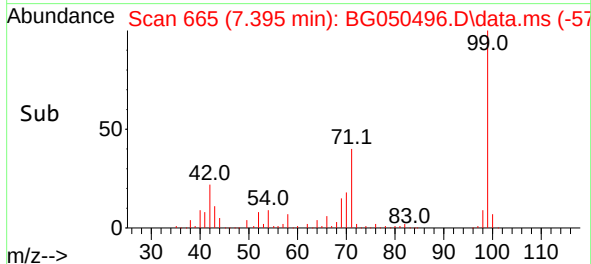
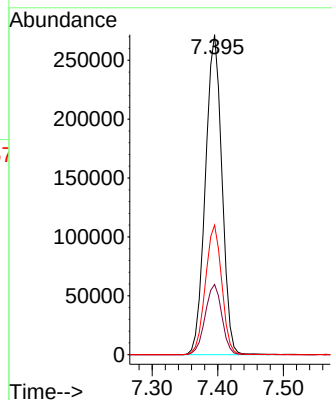
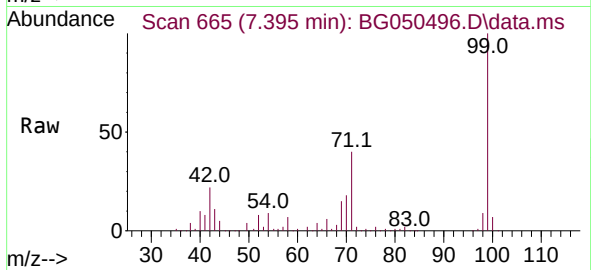




#7  
Phenol-d6  
Concen: 85.161 ng  
RT: 7.395 min Scan# 665  
Delta R.T. 0.001 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

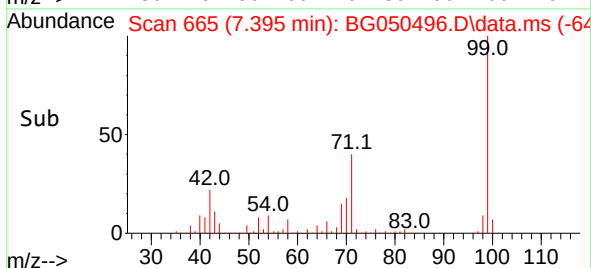
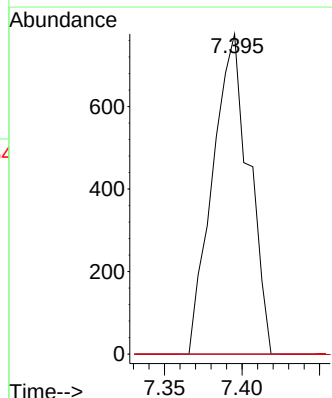
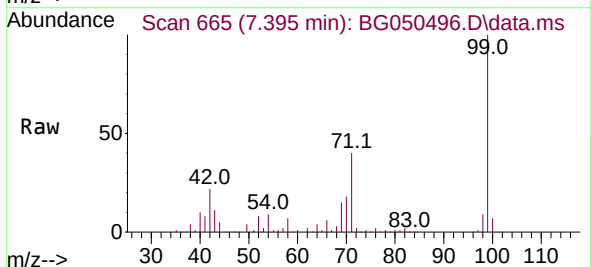
Instrument :  
BNA\_G  
ClientSampled :  
SP-01

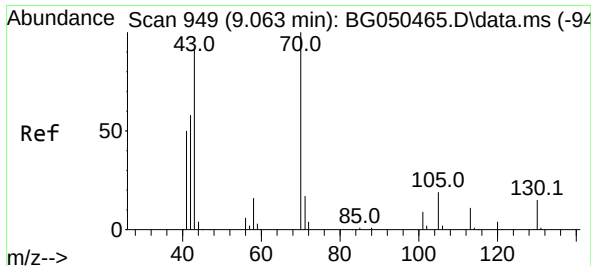
Tgt Ion: 99 Resp: 476640  
Ion Ratio Lower Upper  
99 100  
42 22.0 20.5 30.7  
71 40.5 41.5 62.3#



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 7.395 min Scan# 665  
Delta R.T. 0.001 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion: 77 Resp: 1263  
Ion Ratio Lower Upper  
77 100  
105 0.0 68.8 108.8#  
106 0.0 47.9 87.9#

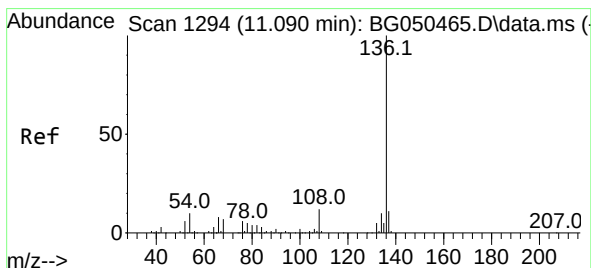
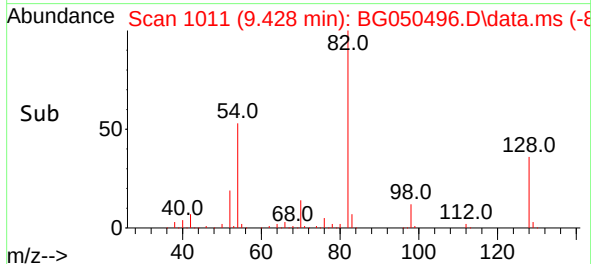
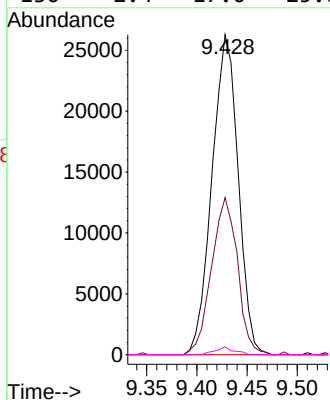
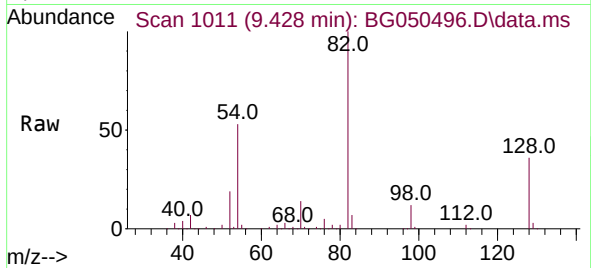




#19  
n-Nitroso-di-n-propylamine  
Concen: 11.669 ng  
RT: 9.428 min Scan# 1011  
Delta R.T. 0.365 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

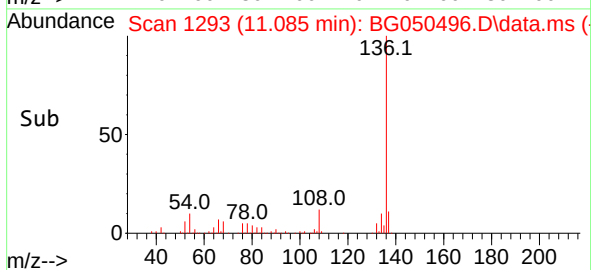
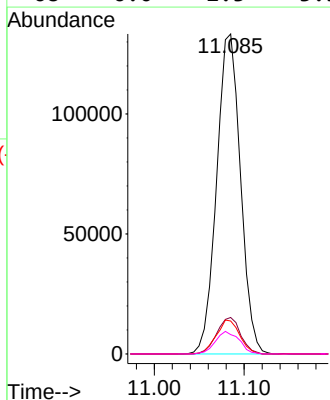
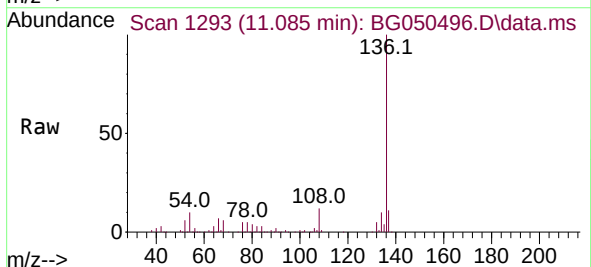
Instrument :  
BNA\_G  
ClientSampled :  
SP-01

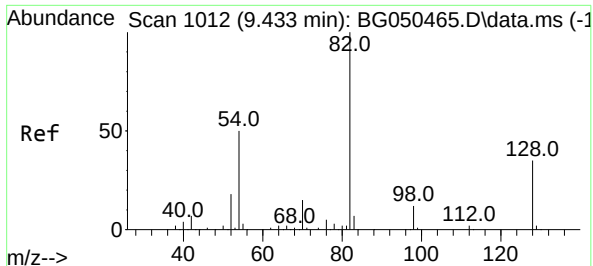
Tgt Ion: 70 Resp: 47601  
Ion Ratio Lower Upper  
70 100  
42 49.1 54.5 81.7#  
101 0.0 9.0 13.6#  
130 2.4 17.0 25.6#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.085 min Scan# 1293  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:136 Resp: 245845  
Ion Ratio Lower Upper  
136 100  
137 11.4 8.2 12.2  
54 10.3 5.5 8.3#  
68 6.0 2.3 3.5#

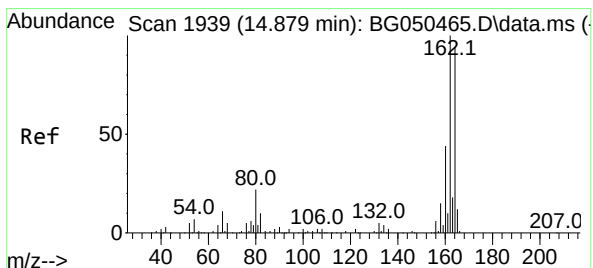
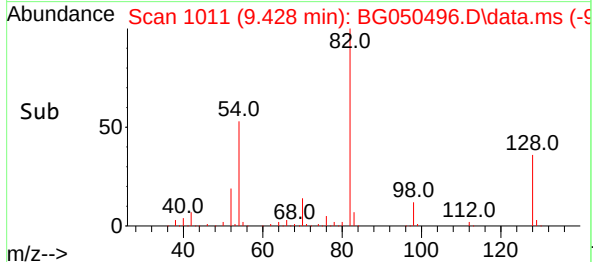
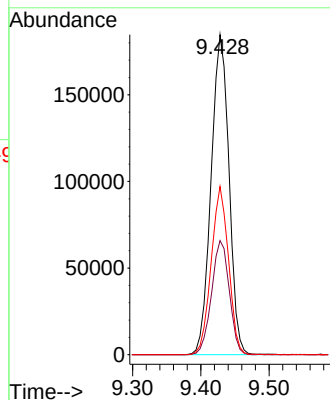
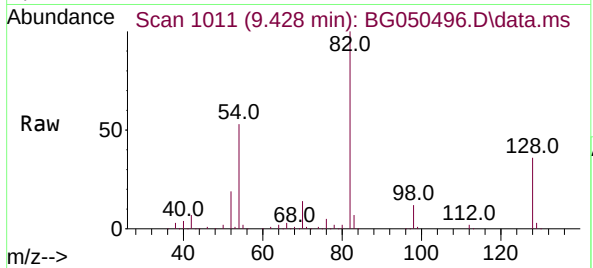




#23  
Nitrobenzene-d5  
Concen: 56.774 ng  
RT: 9.428 min Scan# 1011  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

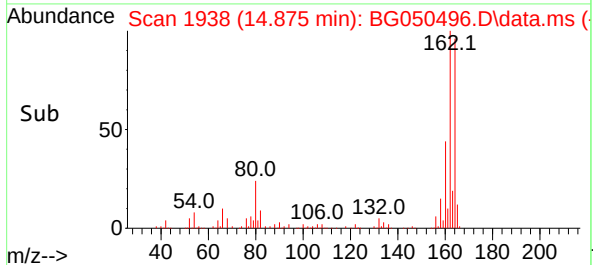
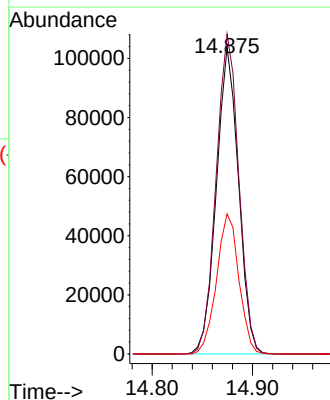
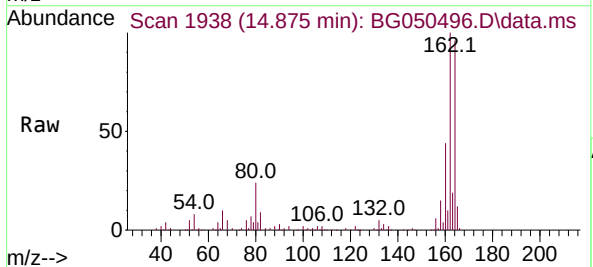
Instrument :  
BNA\_G  
ClientSampleId :  
SP-01

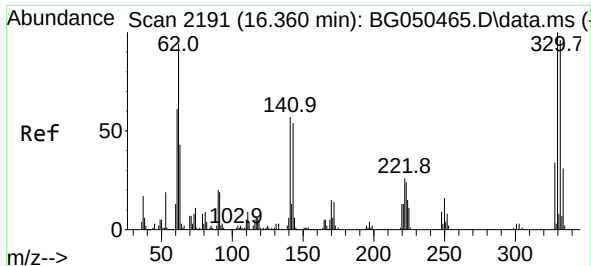
Tgt Ion: 82 Resp: 337176  
Ion Ratio Lower Upper  
82 100  
128 35.6 29.8 44.6  
54 52.5 45.8 68.8



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.875 min Scan# 1938  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

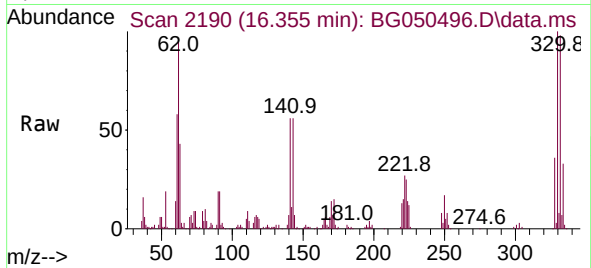
Tgt Ion:164 Resp: 158758  
Ion Ratio Lower Upper  
164 100  
162 104.4 81.4 122.0  
160 45.7 34.9 52.3



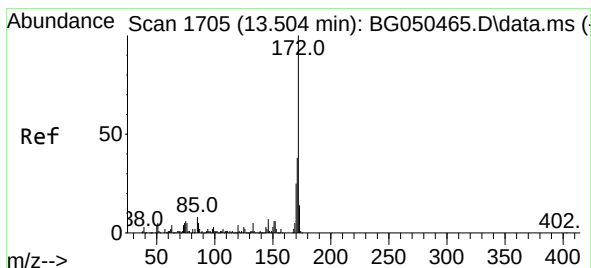
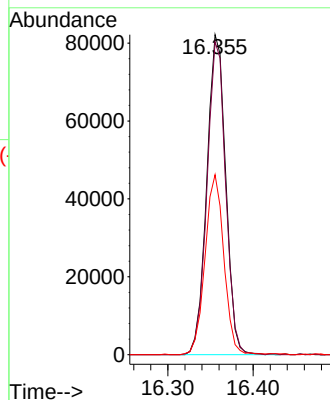
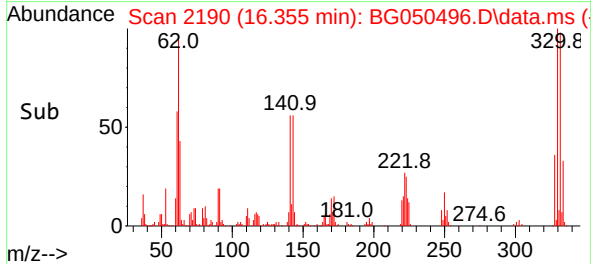


#42  
2,4,6-Tribromophenol  
Concen: 83.566 ng  
RT: 16.355 min Scan# 2190  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

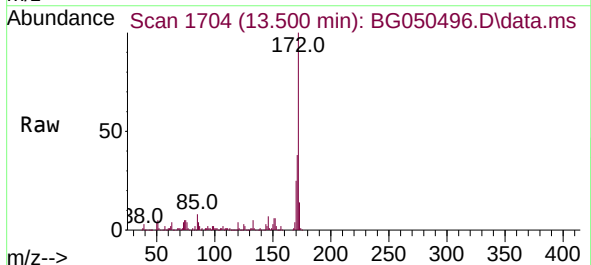
Instrument :  
BNA\_G  
ClientSampleId :  
SP-01



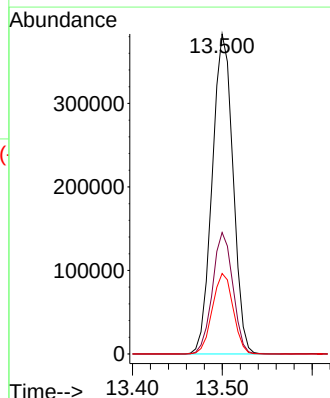
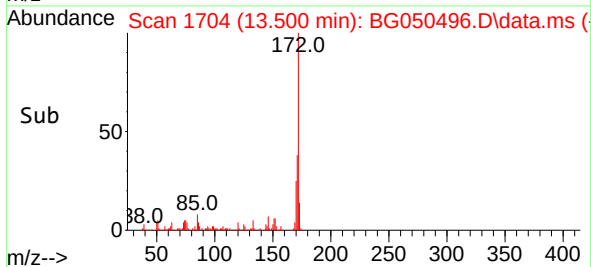
Tgt Ion:330 Resp: 126541  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.3 115.9  
141 56.0 35.6 53.4#

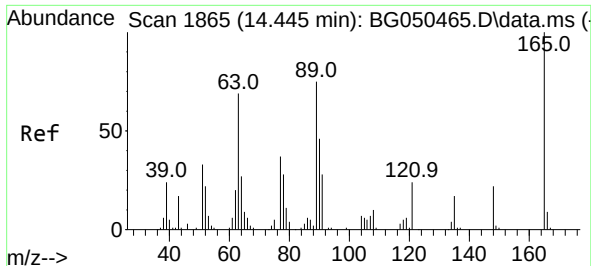


#45  
2-Fluorobiphenyl  
Concen: 58.382 ng  
RT: 13.500 min Scan# 1704  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55



Tgt Ion:172 Resp: 615839  
Ion Ratio Lower Upper  
172 100  
171 37.9 28.6 43.0  
170 25.2 18.6 27.8

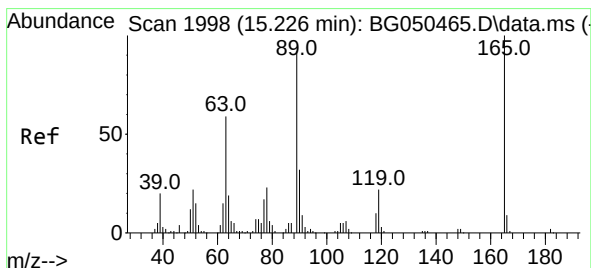
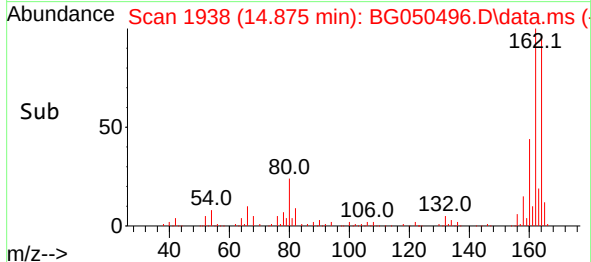
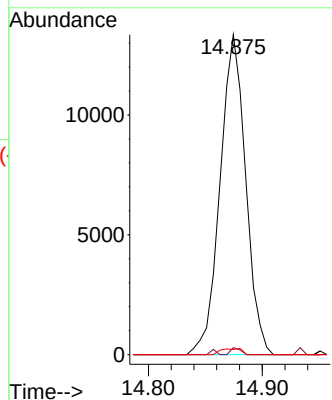
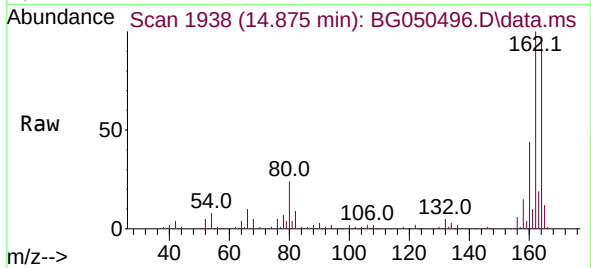




#51  
2,6-Dinitrotoluene  
Concen: 8.686 ng  
RT: 14.875 min Scan# 1938  
Delta R.T. 0.430 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

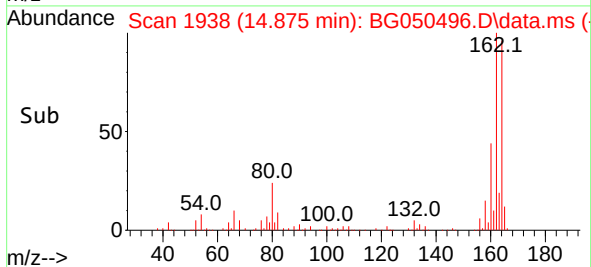
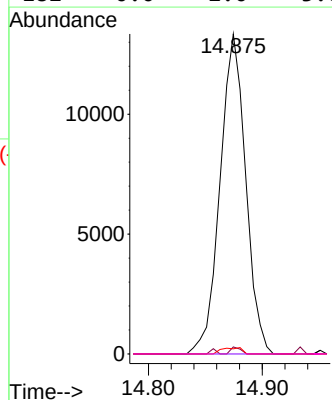
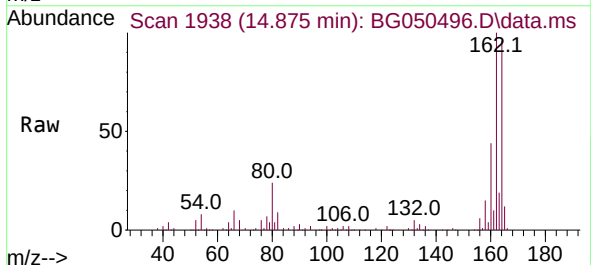
Instrument :  
BNA\_G  
ClientSampled :  
SP-01

Tgt Ion:165 Resp: 20877  
Ion Ratio Lower Upper  
165 100  
63 2.2 63.3 94.9#  
89 1.6 63.4 95.0#

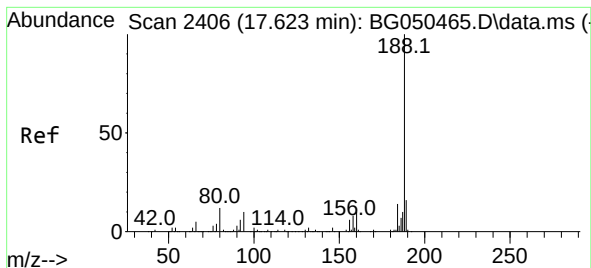


#57  
2,4-Dinitrotoluene  
Concen: 6.162 ng  
RT: 14.875 min Scan# 1938  
Delta R.T. -0.351 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:165 Resp: 20877  
Ion Ratio Lower Upper  
165 100  
63 2.2 48.0 72.0#  
89 1.6 65.4 98.0#  
182 0.0 2.0 3.0#



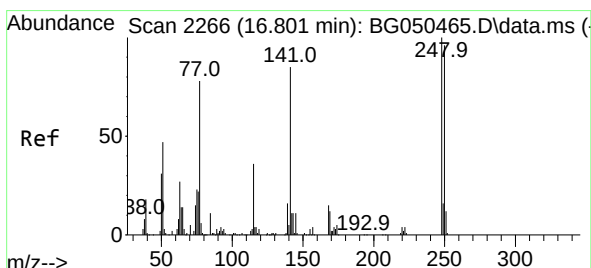
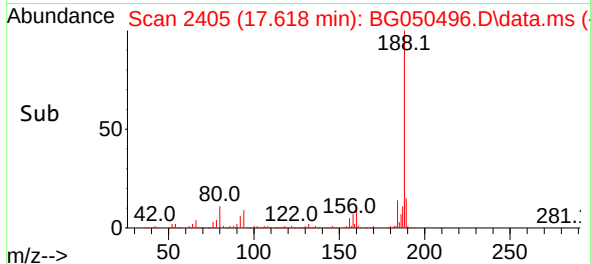
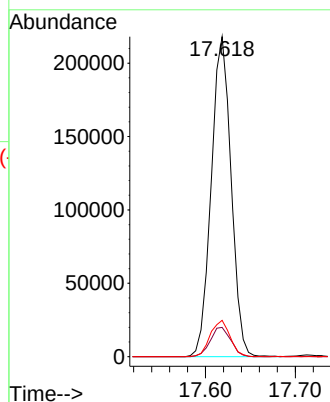
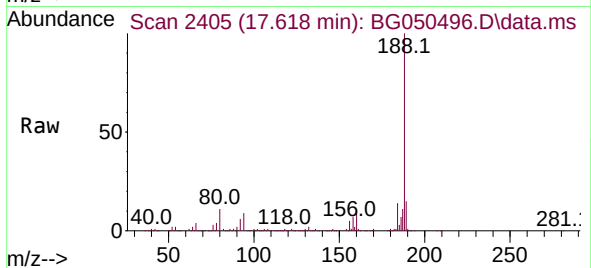




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.618 min Scan# 2405  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

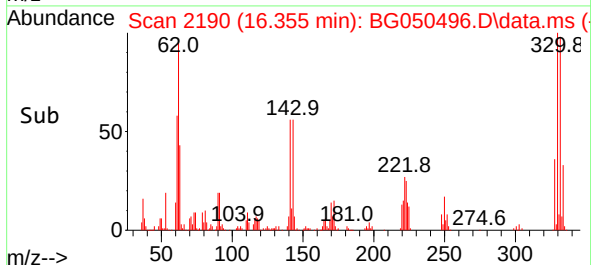
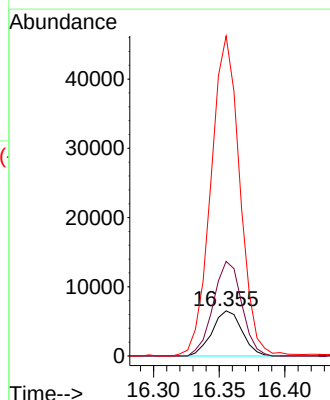
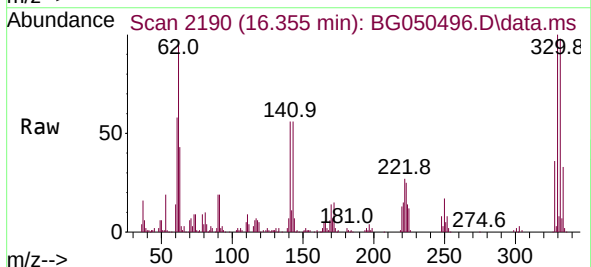
Instrument :  
BNA\_G  
ClientSampleId :  
SP-01

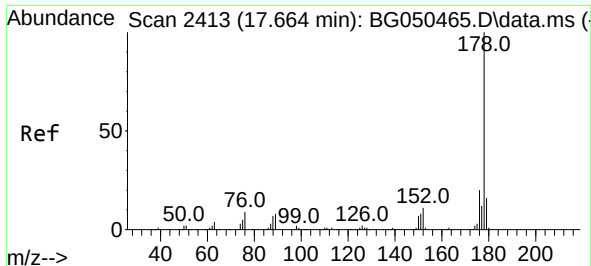
Tgt Ion:188 Resp: 335063  
Ion Ratio Lower Upper  
188 100  
94 9.1 5.4 8.0#  
80 11.4 3.7 5.5#



#67  
4-Bromophenyl-phenylether  
Concen: 3.047 ng  
RT: 16.355 min Scan# 2190  
Delta R.T. -0.445 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:248 Resp: 10288  
Ion Ratio Lower Upper  
248 100  
250 209.9 76.1 114.1#  
141 710.0 65.4 98.2#

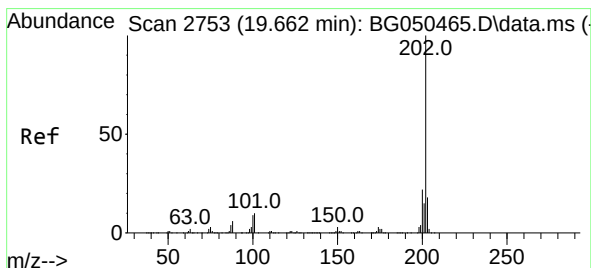
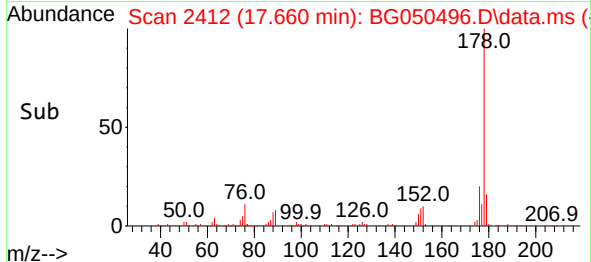
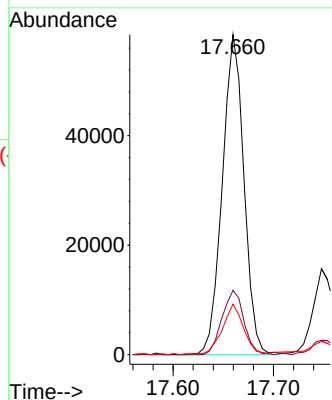
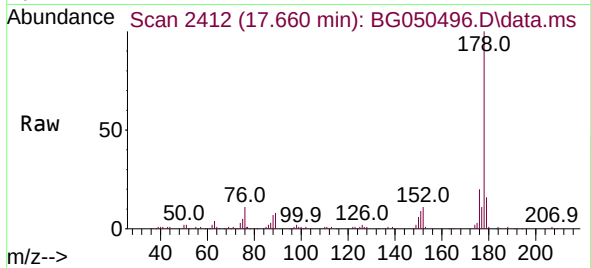




#71  
Phenanthrene  
Concen: 4.958 ng  
RT: 17.660 min Scan# 2412  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

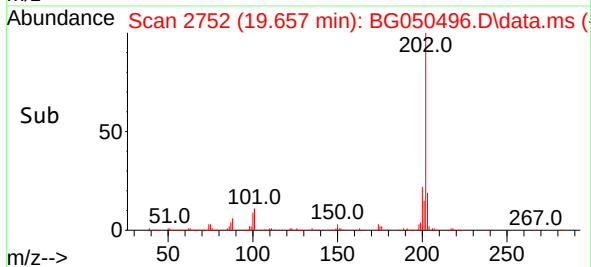
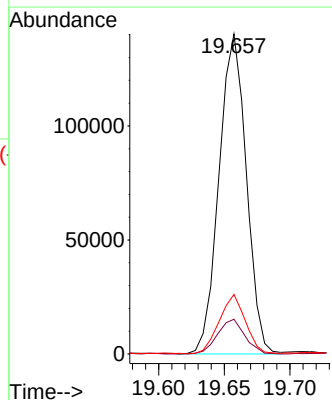
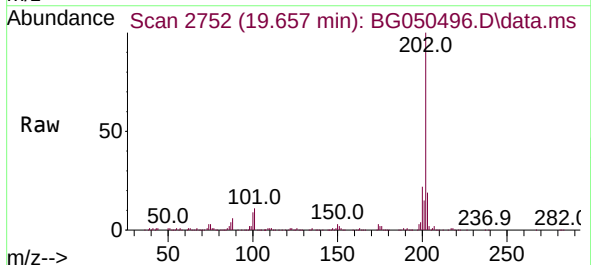
Instrument :  
BNA\_G  
ClientSampled :  
SP-01

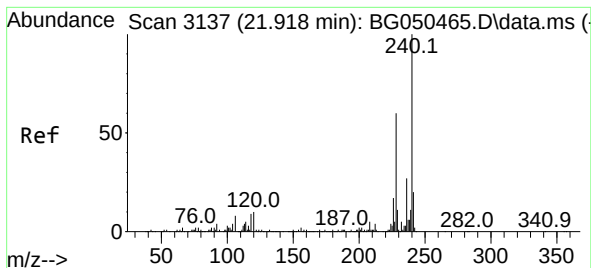
Tgt Ion:178 Resp: 87543  
Ion Ratio Lower Upper  
178 100  
176 20.1 16.0 24.0  
179 15.8 14.2 21.4



#75  
Fluoranthene  
Concen: 9.371 ng  
RT: 19.657 min Scan# 2752  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:202 Resp: 203391  
Ion Ratio Lower Upper  
202 100  
101 10.8 0.0 24.7  
203 18.6 0.0 38.5

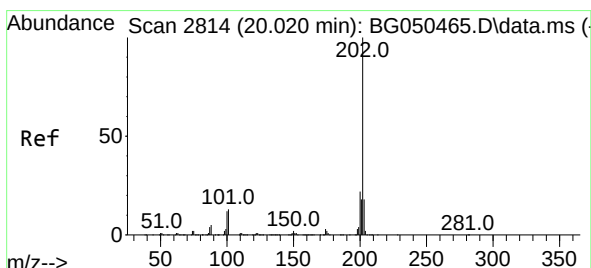
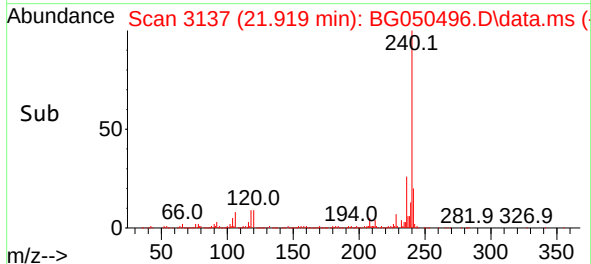
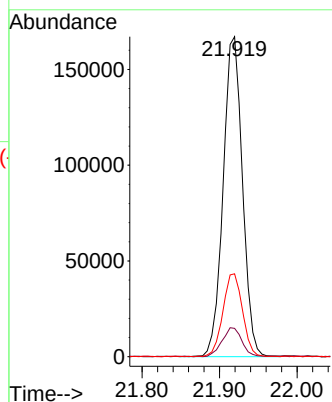
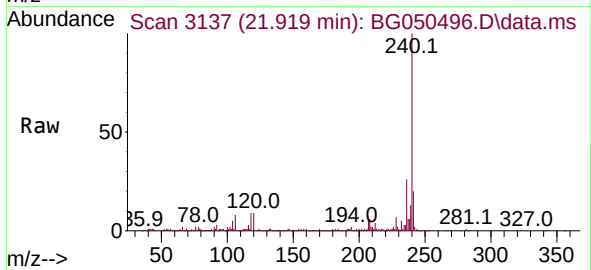




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.919 min Scan# 3137  
Delta R.T. 0.001 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

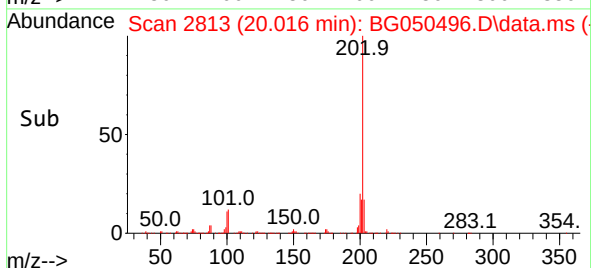
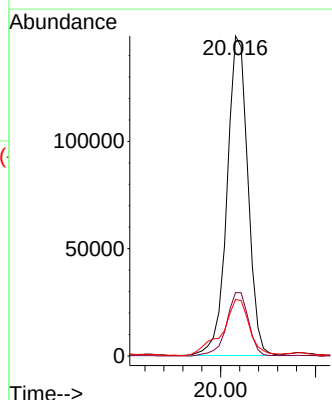
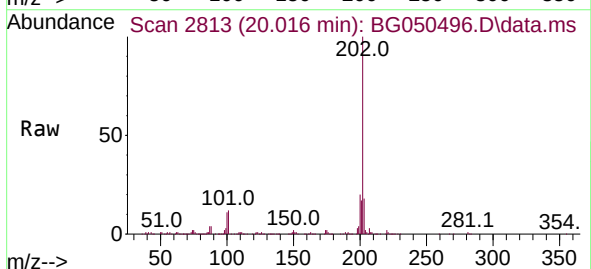
Instrument :  
BNA\_G  
ClientSampled :  
SP-01

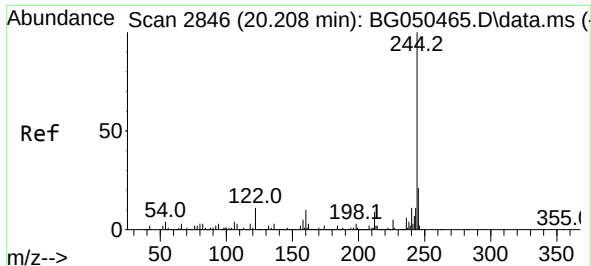
Tgt Ion:240 Resp: 289809  
Ion Ratio Lower Upper  
240 100  
120 8.9 4.2 6.2#  
236 25.9 21.8 32.6



#78  
Pyrene  
Concen: 11.030 ng  
RT: 20.016 min Scan# 2813  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:202 Resp: 226804  
Ion Ratio Lower Upper  
202 100  
200 19.8 15.8 23.8  
203 17.6 14.6 21.8

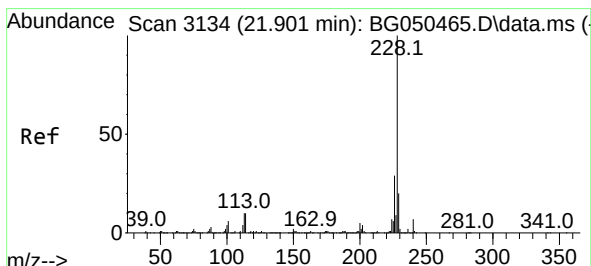
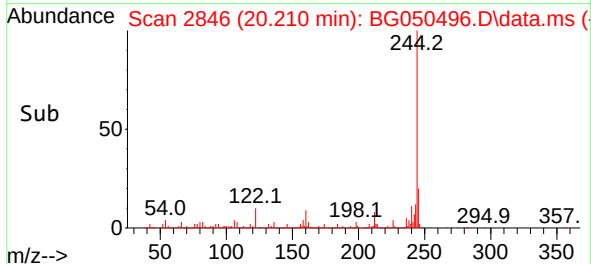
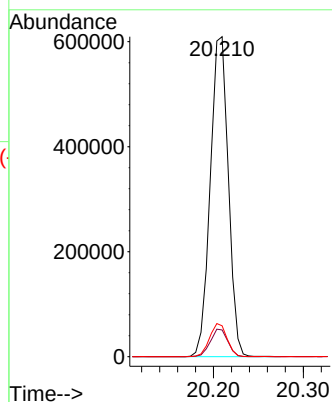
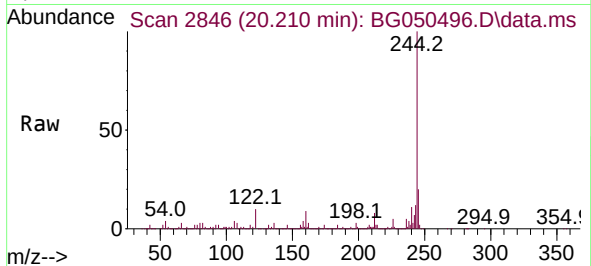




#79  
 Terphenyl-d14  
 Concen: 57.239 ng  
 RT: 20.210 min Scan# 2846  
 Delta R.T. 0.001 min  
 Lab File: BG050496.D  
 Acq: 7 Oct 2021 23:55

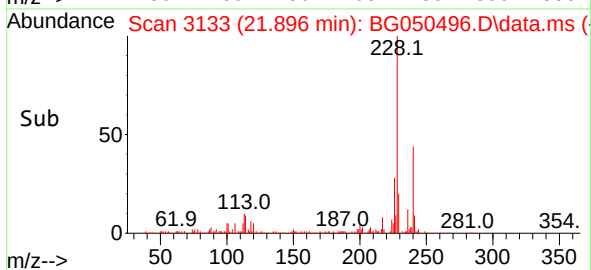
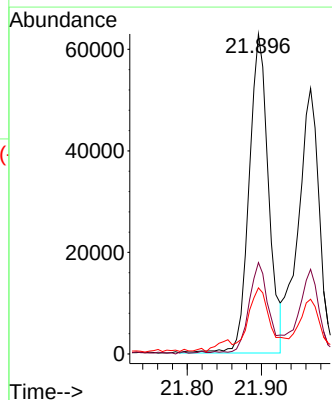
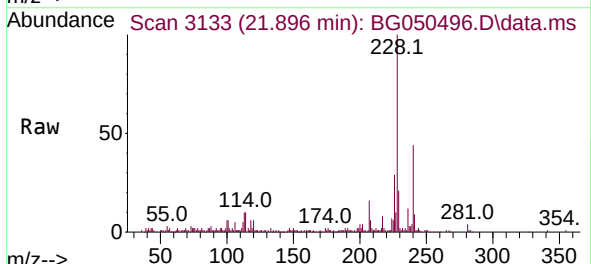
Instrument :  
 BNA\_G  
 ClientSampled :  
 SP-01

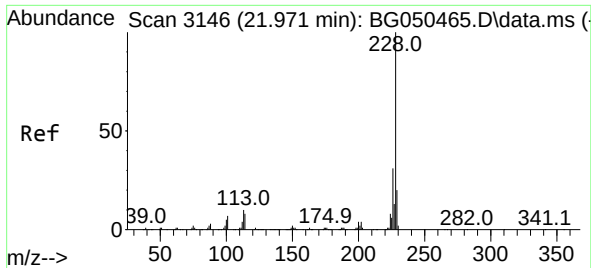
Tgt Ion:244 Resp: 851206  
 Ion Ratio Lower Upper  
 244 100  
 212 8.4 6.9 10.3  
 122 9.6 5.0 7.6#



#81  
 Benzo(a)anthracene  
 Concen: 5.963 ng  
 RT: 21.896 min Scan# 3133  
 Delta R.T. -0.005 min  
 Lab File: BG050496.D  
 Acq: 7 Oct 2021 23:55

Tgt Ion:228 Resp: 114343  
 Ion Ratio Lower Upper  
 228 100  
 226 28.6 22.7 34.1  
 229 20.6 16.0 24.0

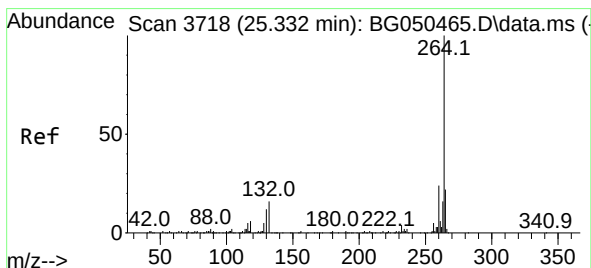
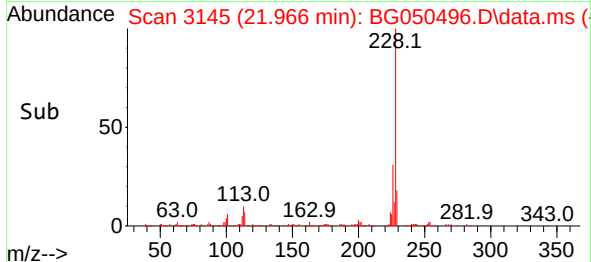
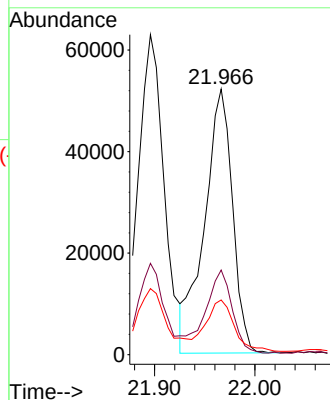
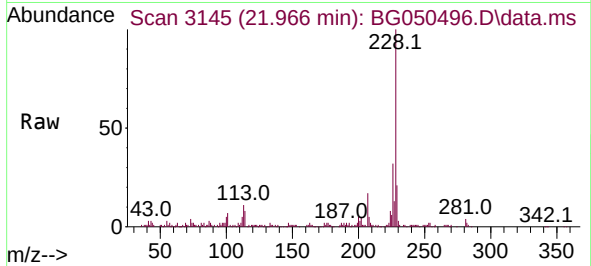




#83  
Chrysene  
Concen: 5.620 ng  
RT: 21.966 min Scan# 3145  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

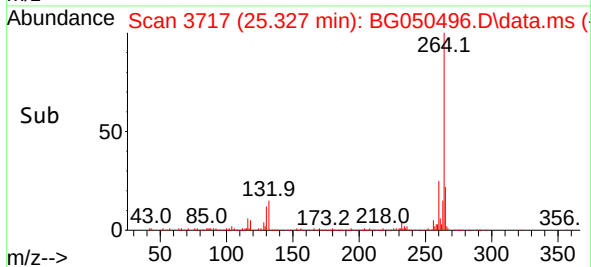
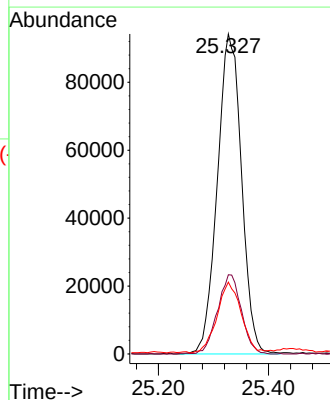
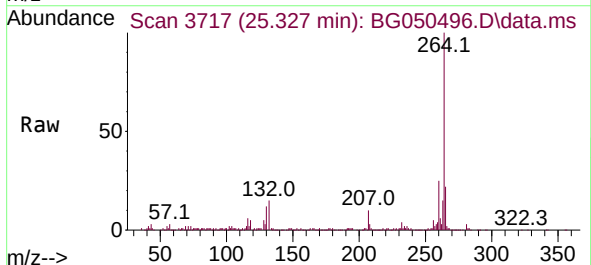
Instrument :  
BNA\_G  
ClientSampled :  
SP-01

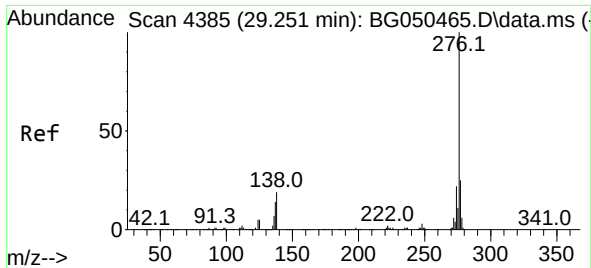
Tgt Ion:228 Resp: 101373  
Ion Ratio Lower Upper  
228 100  
226 31.9 23.1 34.7  
229 20.6 15.3 22.9



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.327 min Scan# 3717  
Delta R.T. -0.005 min  
Lab File: BG050496.D  
Acq: 7 Oct 2021 23:55

Tgt Ion:264 Resp: 287376  
Ion Ratio Lower Upper  
264 100  
260 24.7 19.4 29.2  
265 22.5 16.9 25.3

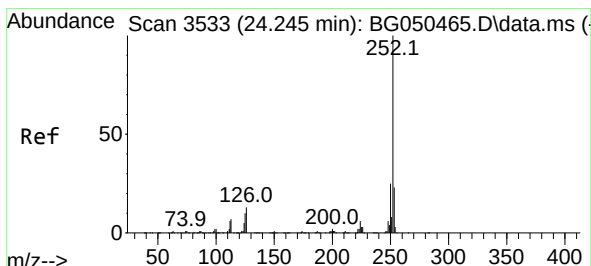
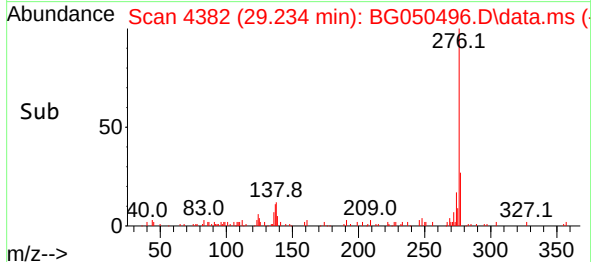
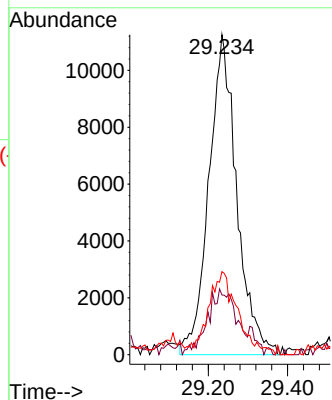
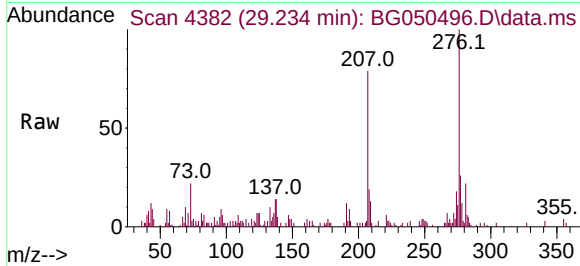




#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.743 ng  
 RT: 29.234 min Scan# 4382  
 Delta R.T. -0.016 min  
 Lab File: BG050496.D  
 Acq: 7 Oct 2021 23:55

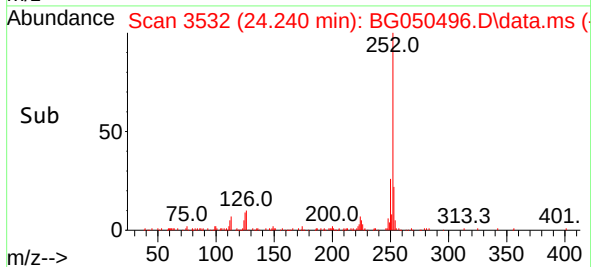
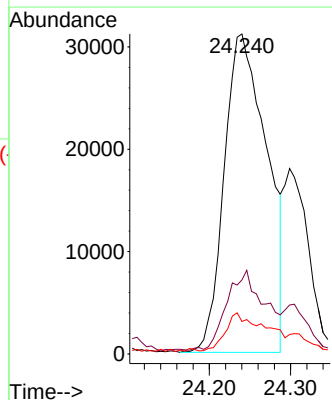
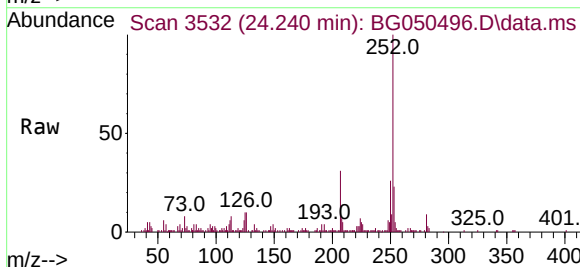
Instrument :  
 BNA\_G  
 ClientSampled :  
 SP-01

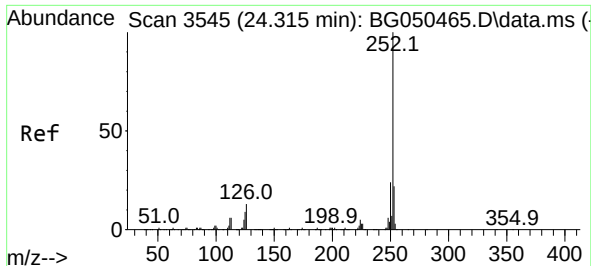
Tgt Ion:276 Resp: 54898  
 Ion Ratio Lower Upper  
 276 100  
 138 21.0 5.1 7.7#  
 277 27.3 19.8 29.6



#88  
 Benzo(b)fluoranthene  
 Concen: 6.451 ng  
 RT: 24.240 min Scan# 3532  
 Delta R.T. -0.005 min  
 Lab File: BG050496.D  
 Acq: 7 Oct 2021 23:55

Tgt Ion:252 Resp: 113543  
 Ion Ratio Lower Upper  
 252 100  
 253 23.1 16.2 24.4  
 125 10.2 3.0 4.4#





#89

Benzo(k)fluoranthene

Concen: 6.558 ng

RT: 24.240 min Scan# 3532

Delta R.T. -0.075 min

Lab File: BG050496.D

Acq: 7 Oct 2021 23:55

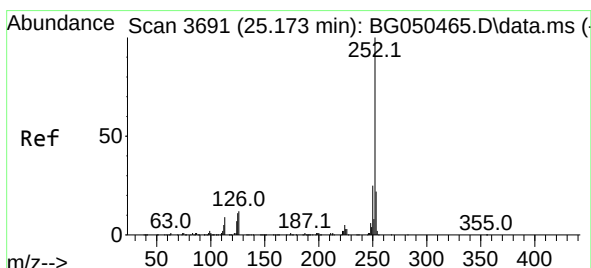
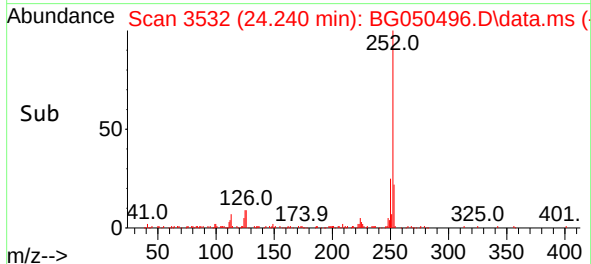
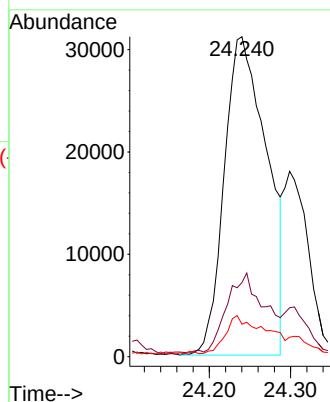
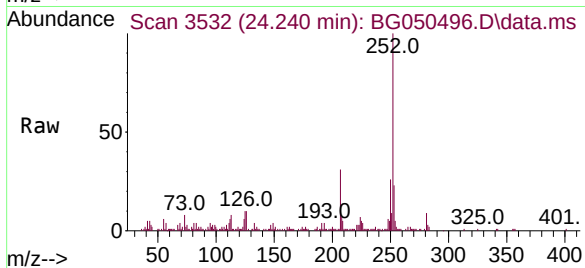
Tgt Ion:252 Resp: 113543

Ion Ratio Lower Upper

252 100

253 23.1 18.0 27.0

125 10.2 3.1 4.7#



#90

Benzo(a)pyrene

Concen: 5.904 ng

RT: 25.168 min Scan# 3690

Delta R.T. -0.005 min

Lab File: BG050496.D

Acq: 7 Oct 2021 23:55

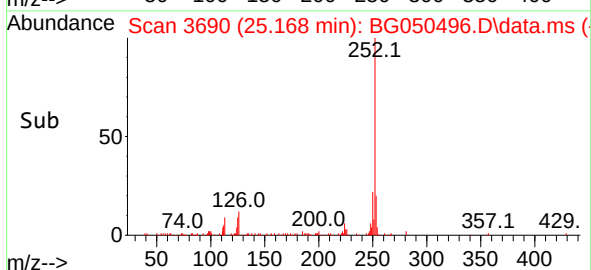
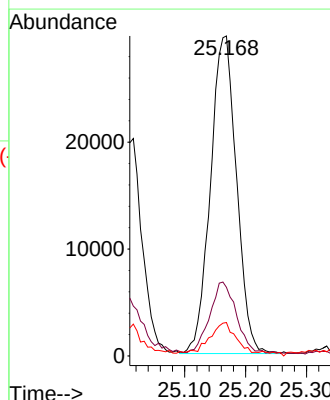
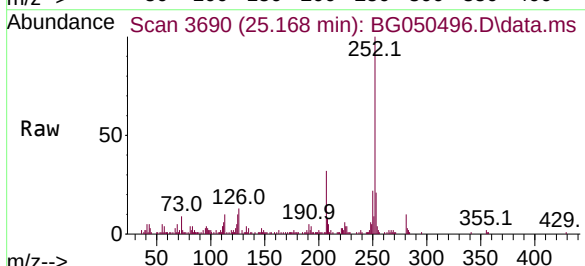
Tgt Ion:252 Resp: 88345

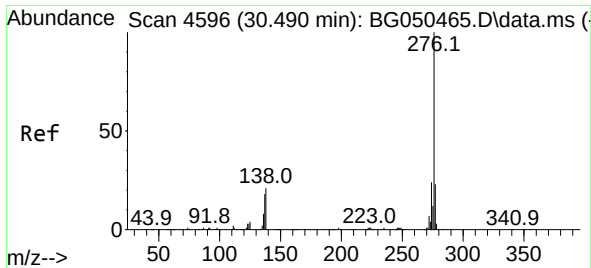
Ion Ratio Lower Upper

252 100

253 21.5 16.6 25.0

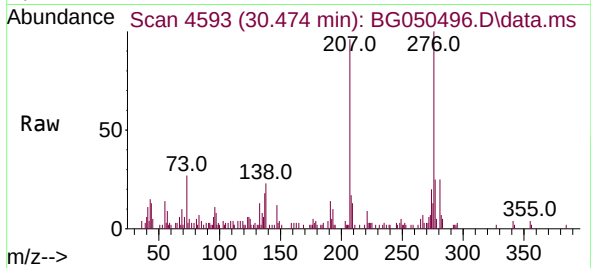
125 10.5 3.5 5.3#





#92  
 Benzo(g,h,i)perylene  
 Concen: 3.191 ng  
 RT: 30.474 min Scan# 4593  
 Delta R.T. -0.016 min  
 Lab File: BG050496.D  
 Acq: 7 Oct 2021 23:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SP-01



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 51733 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 25.4  | 18.4  | 27.6  |
| 138       | 22.6  | 7.0   | 10.6# |

