

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122023\  
 Data File : BG060101.D  
 Acq On : 20 Dec 2023 12:47  
 Operator : MA/JU  
 Sample : 05853-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOUTH-WALL

Quant Time: Dec 20 13:31:06 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG121323.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 19 04:37:23 2023  
 Response via : Initial Calibration

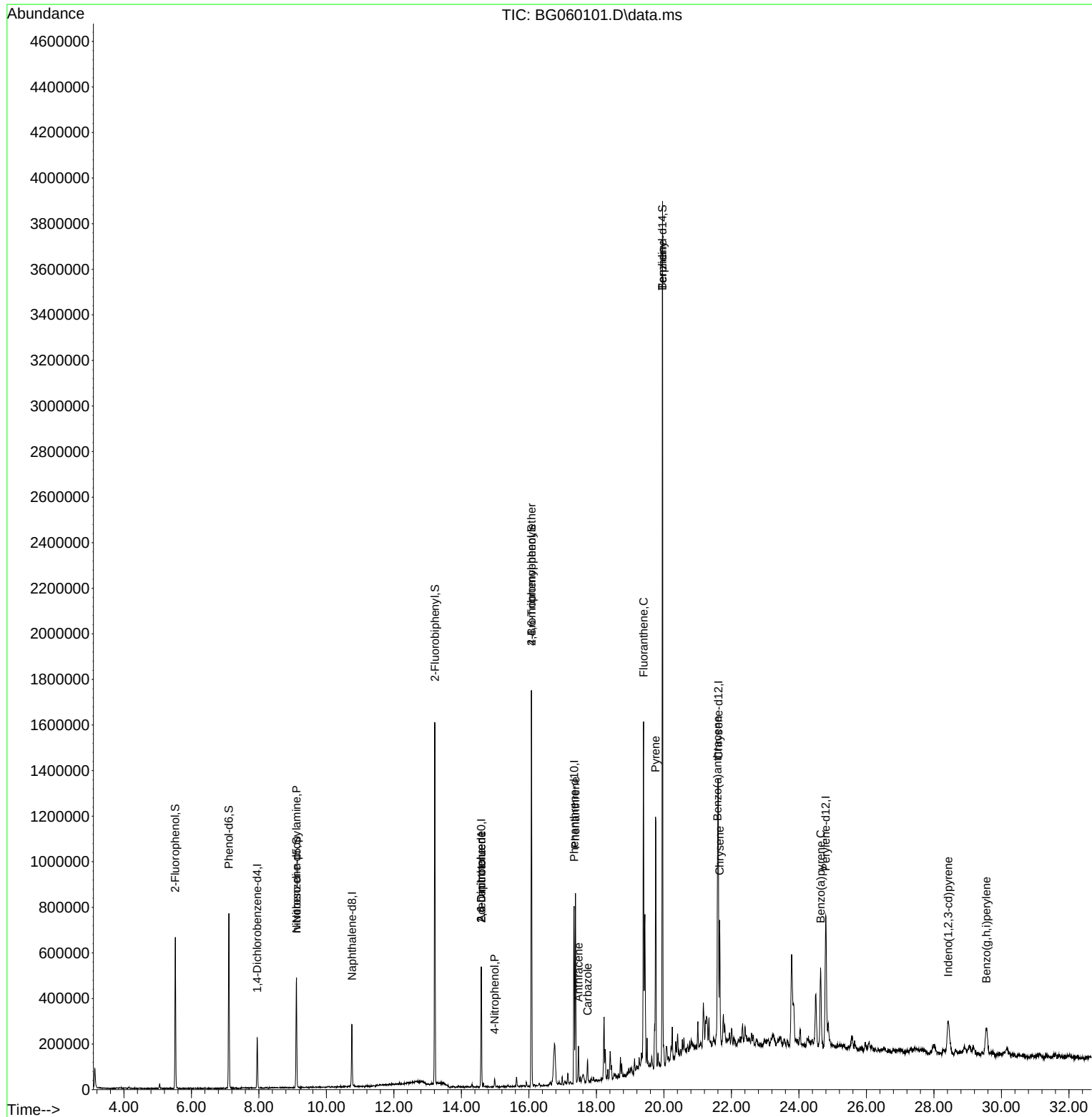
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.950  | 152  | 57818    | 20.000    | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.758 | 136  | 204222   | 20.000    | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.589 | 164  | 190289   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.339 | 188  | 556822   | 20.000    | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.610 | 240  | 642608   | 20.000    | ng    | # 0.00   |
| 86) Perylene-d12              | 24.795 | 264  | 737353   | 20.000    | ng    | -0.02    |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.523  | 112  | 216571   | 64.121    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.109  | 99   | 325276   | 68.465    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.113  | 82   | 257604   | 57.278    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.075 | 330  | 411667   | 92.830    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.214 | 172  | 861514   | 55.411    | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.959 | 244  | 2091918  | 59.433    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 19) n-Nitroso-di-n-propyla... | 9.113  | 70   | 39011    | 12.727    | ng    | # 76     |
| 51) 2,6-Dinitrotoluene        | 14.589 | 165  | 27433    | 8.966     | ng    | # 24     |
| 56) 4-Nitrophenol             | 14.983 | 139  | 5648     | 2.749     | ng    | # 1      |
| 57) 2,4-Dinitrotoluene        | 14.589 | 165  | 27433    | 6.378     | ng    | # 27     |
| 67) 4-Bromophenyl-phenylether | 16.075 | 248  | 24520    | 3.121     | ng    | # 1      |
| 69) Atrazine                  | 16.786 | 200  | 133      | Below Cal |       | # 1      |
| 71) Phenanthrene              | 17.380 | 178  | 561573   | 20.821    | ng    | 98       |
| 72) Anthracene                | 17.468 | 178  | 107839   | 3.977     | ng    | 98       |
| 73) Carbazole                 | 17.738 | 167  | 66450    | 2.884     | ng    | 98       |
| 75) Fluoranthene              | 19.395 | 202  | 1016091  | 25.817    | ng    | 96       |
| 77) Benzidine                 | 19.959 | 184  | 32734    | 3.966     | ng    | # 95     |
| 78) Pyrene                    | 19.753 | 202  | 812466   | 20.857    | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.587 | 228  | 477470   | 11.061    | ng    | 97       |
| 83) Chrysene                  | 21.651 | 228  | 430963   | 10.538    | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.426 | 276  | 308094   | 5.855     | ng    | # 93     |
| 90) Benzo(a)pyrene            | 24.642 | 252  | 407467   | 10.099    | ng    | # 92     |
| 92) Benzo(g,h,i)perylene      | 29.554 | 276  | 292595   | 6.685     | ng    | # 96     |
| -----                         |        |      |          |           |       |          |

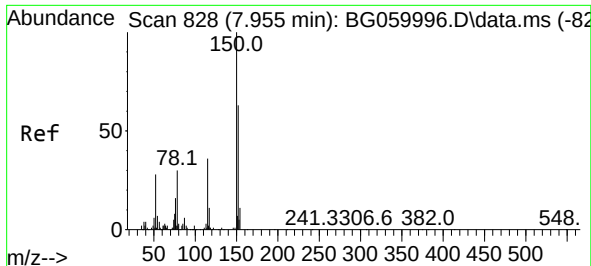
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG122023\  
Data File : BG060101.D  
Acq On : 20 Dec 2023 12:47  
Operator : MA/JU  
Sample : 05853-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
SOUTH-WALL

Quant Time: Dec 20 13:31:06 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG121323.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 19 04:37:23 2023  
Response via : Initial Calibration

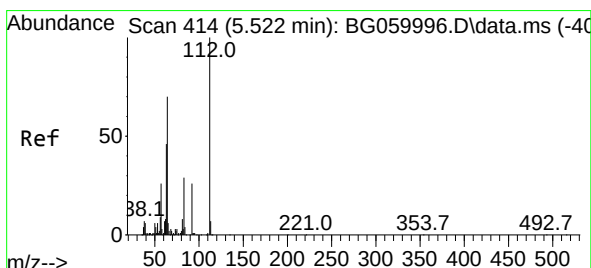
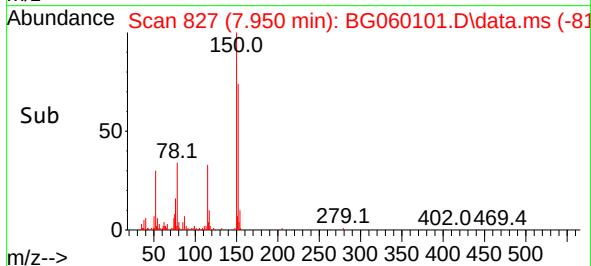
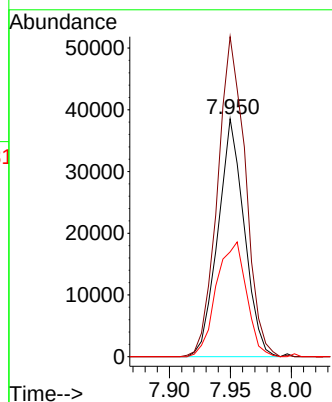
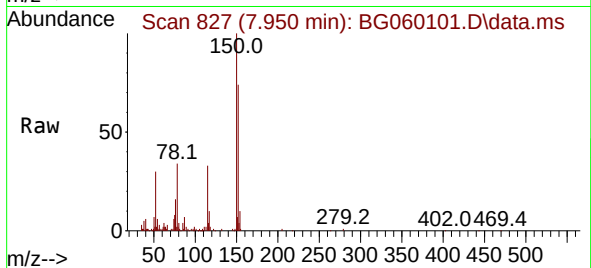




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.950 min Scan# 81  
Delta R.T. -0.009 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

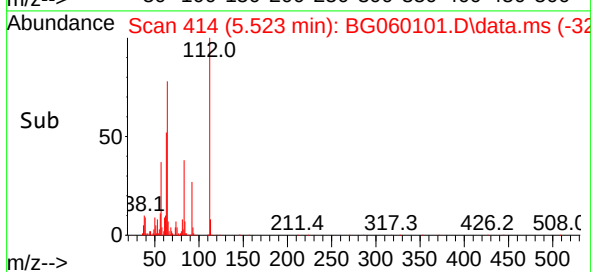
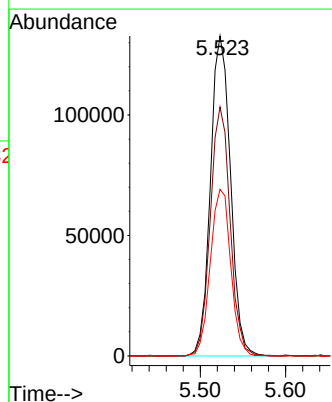
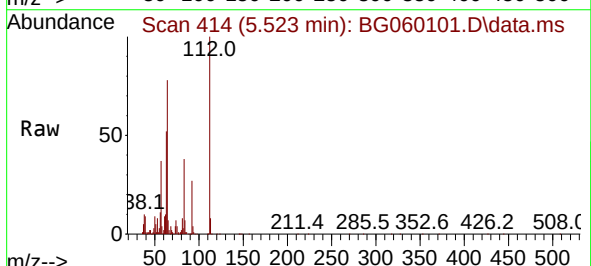
Instrument :  
BNA\_G  
ClientSampleId :  
SOUTH-WALL

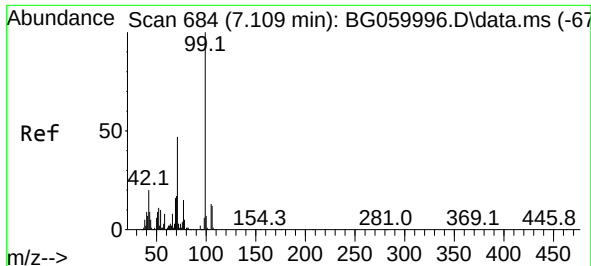
Tgt Ion:152 Resp: 57818  
Ion Ratio Lower Upper  
152 100  
150 134.5 127.0 190.6  
115 44.1 45.7 68.5#



#5  
2-Fluorophenol  
Concen: 64.121 ng  
RT: 5.523 min Scan# 414  
Delta R.T. -0.003 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Tgt Ion:112 Resp: 216571  
Ion Ratio Lower Upper  
112 100  
64 77.8 55.9 83.9  
63 52.0 36.5 54.7

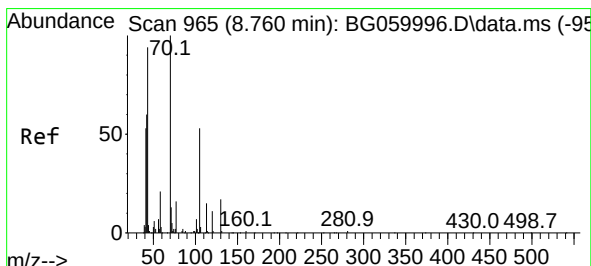
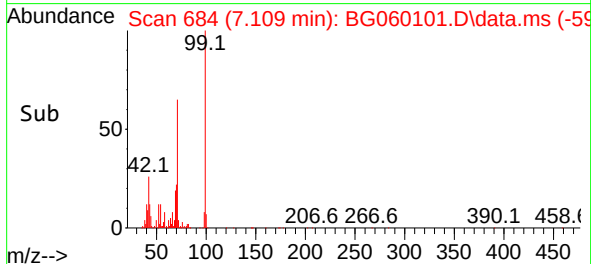
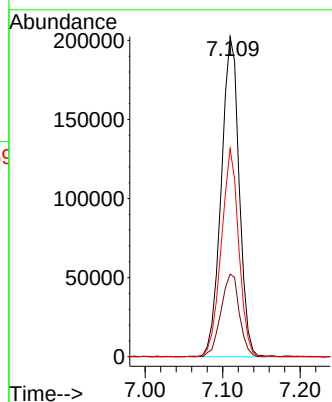
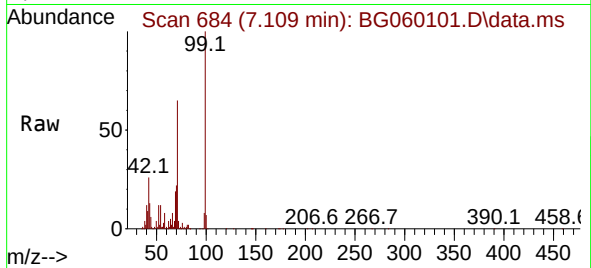




#7  
Phenol-d6  
Concen: 68.465 ng  
RT: 7.109 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

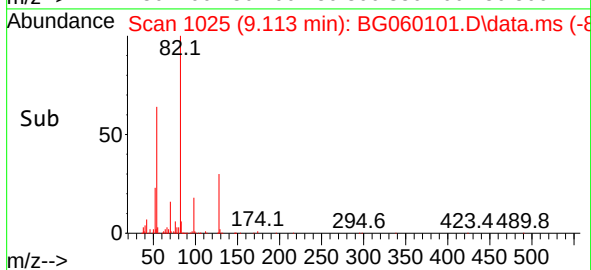
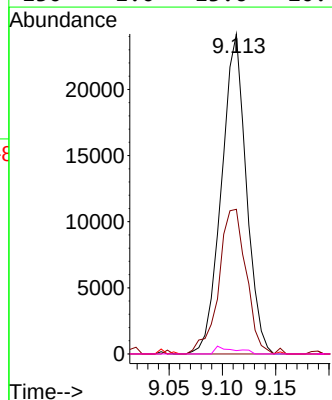
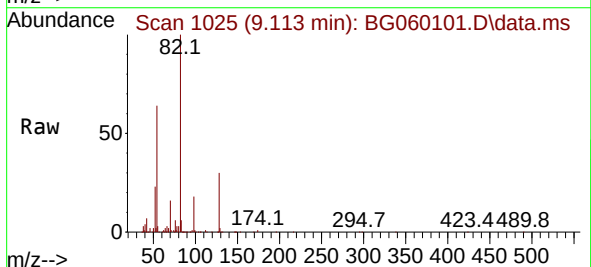
Instrument :  
BNA\_G  
ClientSampleId :  
SOUTH-WALL

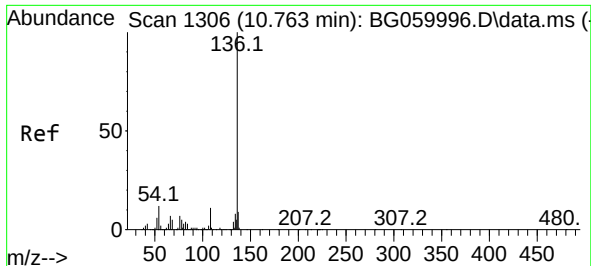
Tgt Ion: 99 Resp: 325276  
Ion Ratio Lower Upper  
99 100  
42 25.8 16.2 24.4#  
71 65.0 37.6 56.4#



#19  
n-Nitroso-di-n-propylamine  
Concen: 12.727 ng  
RT: 9.113 min Scan# 1025  
Delta R.T. 0.349 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Tgt Ion: 70 Resp: 39011  
Ion Ratio Lower Upper  
70 100  
42 45.2 48.6 73.0#  
101 0.0 5.7 8.5#  
130 1.0 13.6 20.4#

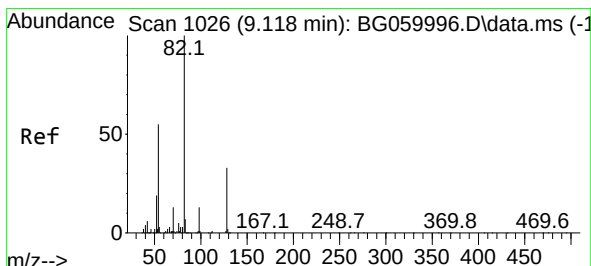
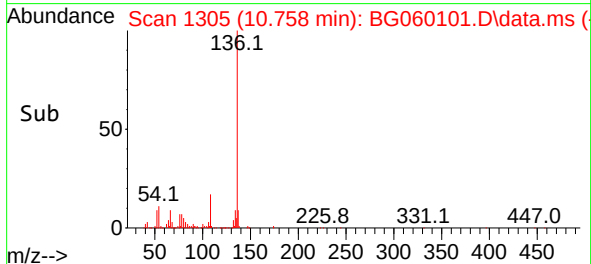
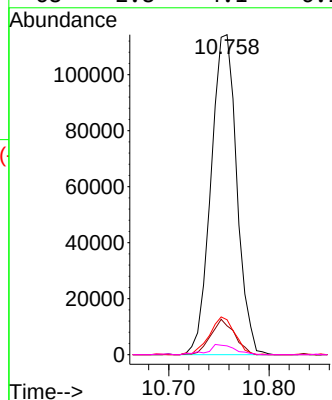
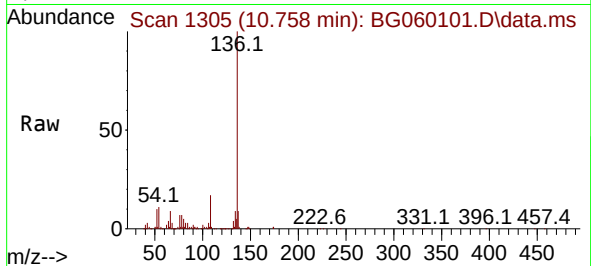




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.758 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

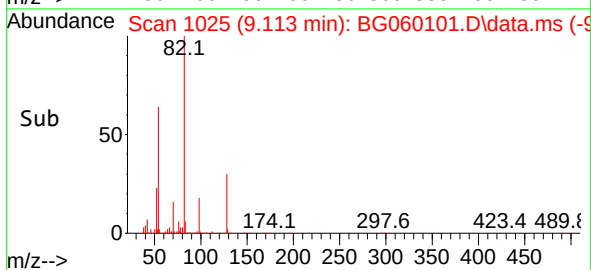
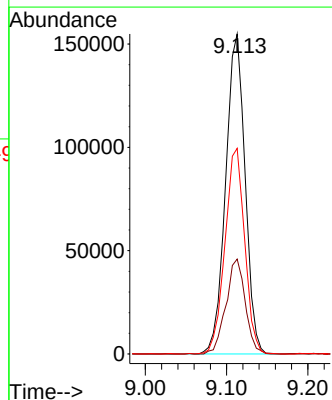
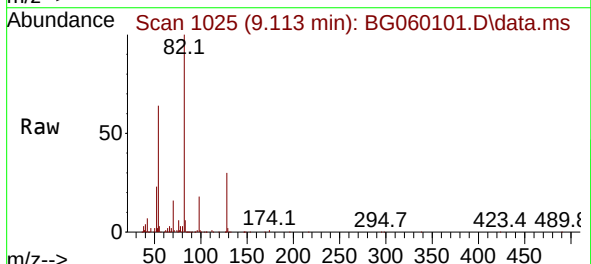
Instrument :  
BNA\_G  
ClientSampleId :  
SOUTH-WALL

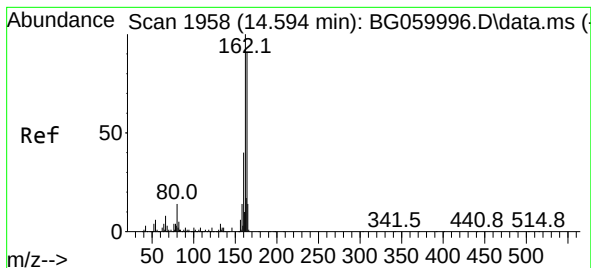
Tgt Ion:136 Resp: 204222  
Ion Ratio Lower Upper  
136 100  
137 9.0 7.3 10.9  
54 10.9 9.6 14.4  
68 2.8 4.1 6.1#



#23  
Nitrobenzene-d5  
Concen: 57.278 ng  
RT: 9.113 min Scan# 1025  
Delta R.T. -0.009 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Tgt Ion: 82 Resp: 257604  
Ion Ratio Lower Upper  
82 100  
128 29.6 26.3 39.5  
54 64.2 44.3 66.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.589 min Scan# 1957

Delta R.T. -0.009 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

Instrument :

BNA\_G

ClientSampleId :

SOUTH-WALL

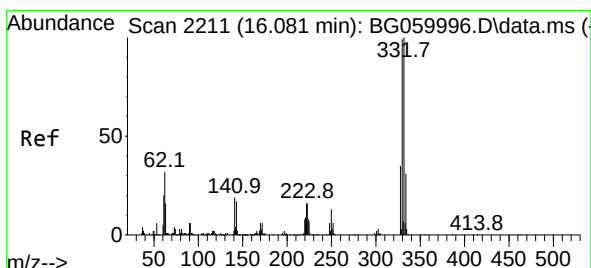
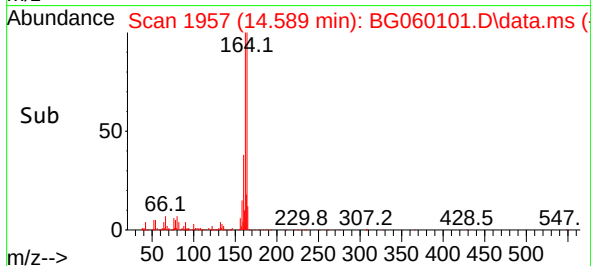
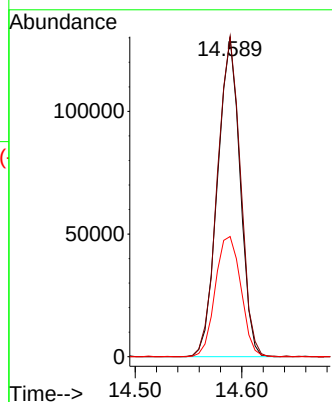
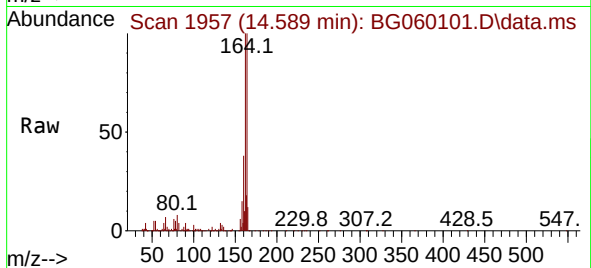
Tgt Ion:164 Resp: 190289

Ion Ratio Lower Upper

164 100

162 100.5 88.1 132.1

160 37.7 35.4 53.0



#42

2,4,6-Tribromophenol

Concen: 92.830 ng

RT: 16.075 min Scan# 2210

Delta R.T. -0.009 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

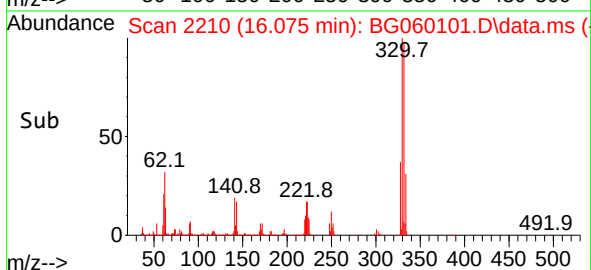
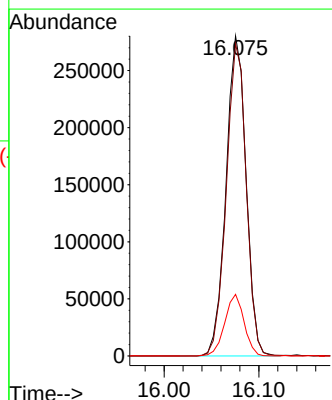
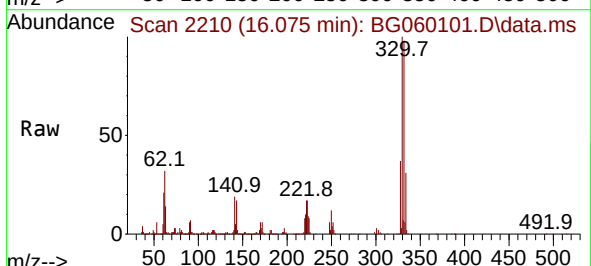
Tgt Ion:330 Resp: 411667

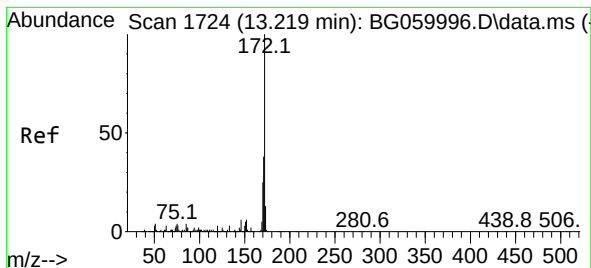
Ion Ratio Lower Upper

330 100

332 96.8 76.2 114.4

141 18.6 14.3 21.5

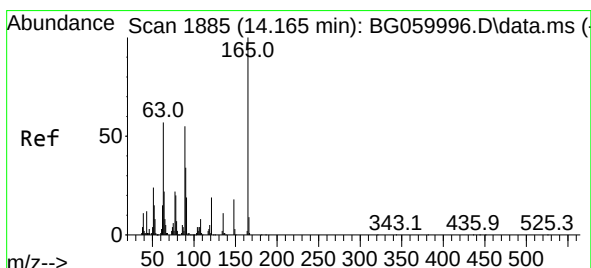
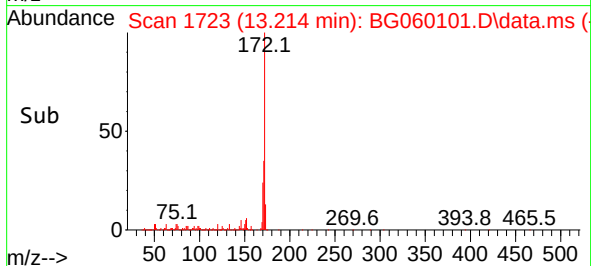
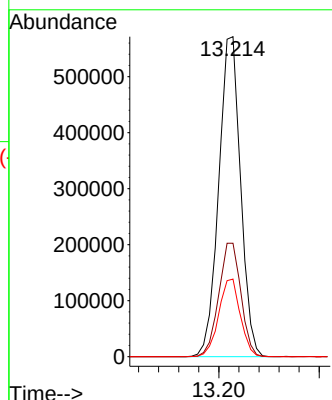
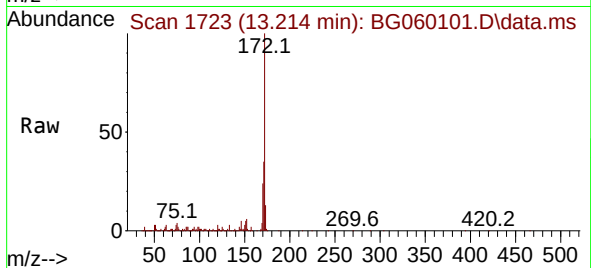




#45  
2-Fluorobiphenyl  
Concen: 55.411 ng  
RT: 13.214 min Scan# 1  
Delta R.T. -0.003 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

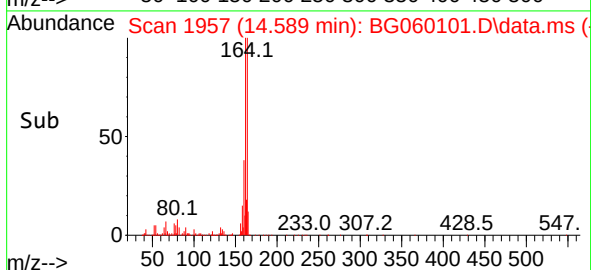
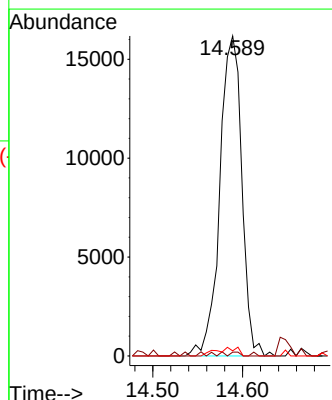
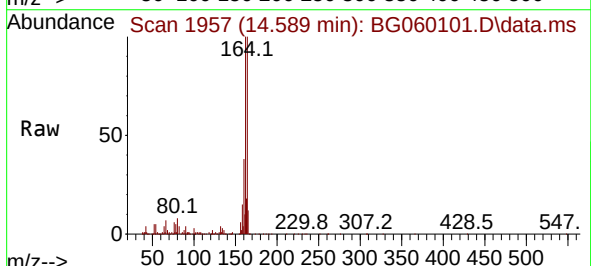
Instrument :  
BNA\_G  
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SOUTH-WALL

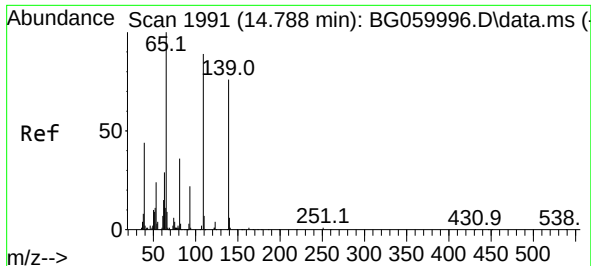
Tgt Ion:172 Resp: 861514  
Ion Ratio Lower Upper  
172 100  
171 35.5 30.1 45.1  
170 24.3 20.0 30.0



#51  
2,6-Dinitrotoluene  
Concen: 8.966 ng  
RT: 14.589 min Scan# 1957  
Delta R.T. 0.420 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Tgt Ion:165 Resp: 27433  
Ion Ratio Lower Upper  
165 100  
63 1.2 48.2 72.2#  
89 1.6 44.4 66.6#

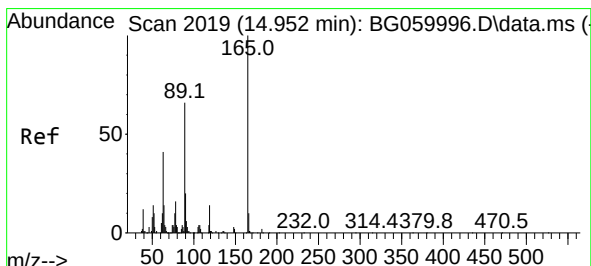
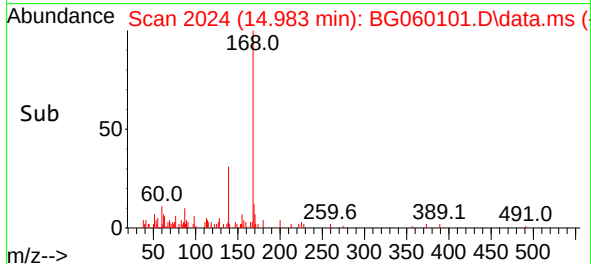
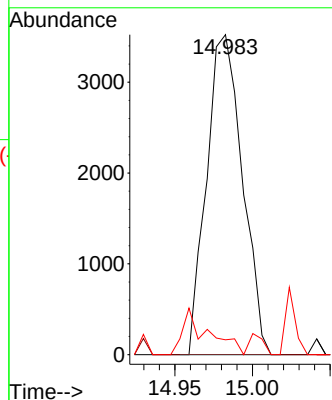
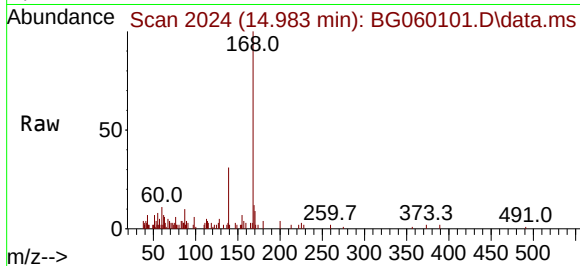




#56  
4-Nitrophenol  
Concen: 2.749 ng  
RT: 14.983 min Scan# 20  
Delta R.T. 0.191 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

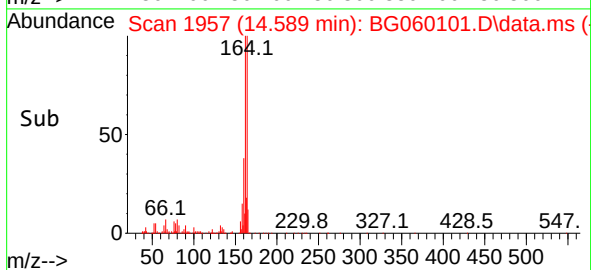
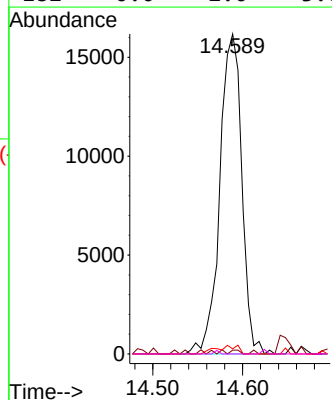
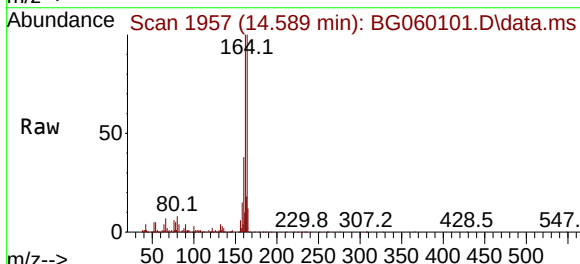
Instrument :  
BNA\_G  
ClientSampleId :  
SOUTH-WALL

Tgt Ion:139 Resp: 5648  
Ion Ratio Lower Upper  
139 100  
109 0.0 97.2 137.2#  
65 4.7 112.2 152.2#

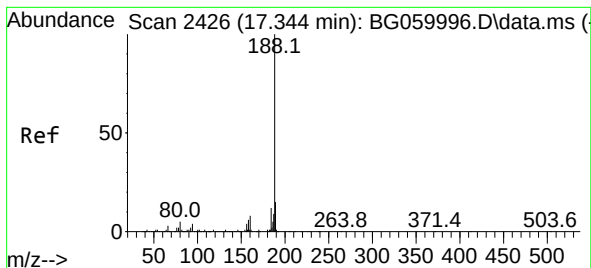


#57  
2,4-Dinitrotoluene  
Concen: 6.378 ng  
RT: 14.589 min Scan# 1957  
Delta R.T. -0.361 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Tgt Ion:165 Resp: 27433  
Ion Ratio Lower Upper  
165 100  
63 1.2 32.8 49.2#  
89 1.6 53.0 79.6#  
182 0.0 2.0 3.0#







#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.339 min Scan# 24

Delta R.T. -0.009 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

Instrument :

BNA\_G

ClientSampleId :

SOUTH-WALL

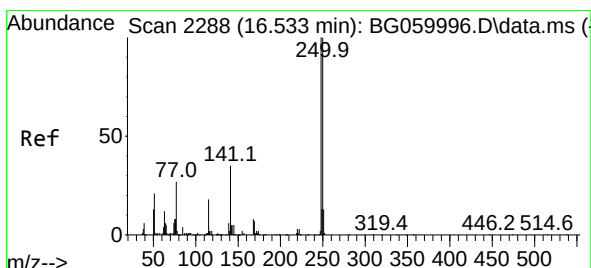
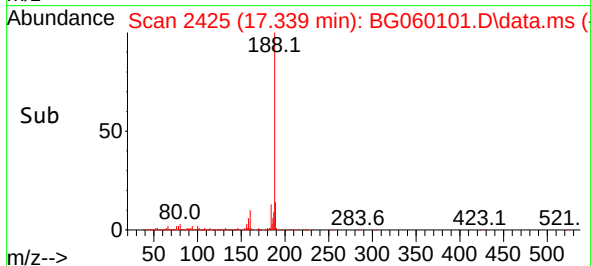
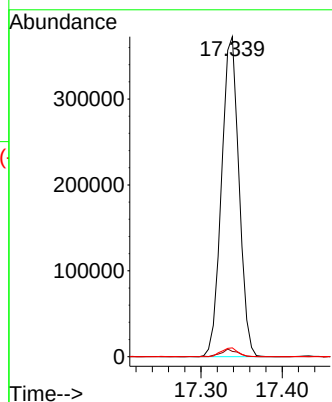
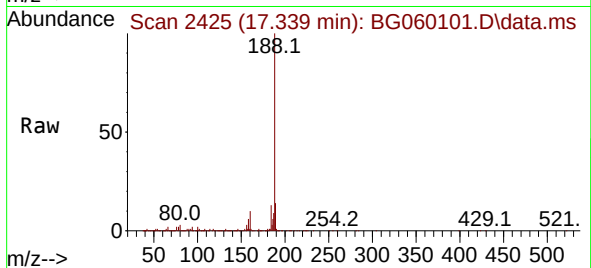
Tgt Ion:188 Resp: 556822

Ion Ratio Lower Upper

188 100

94 1.6 3.0 4.6#

80 2.7 4.0 6.0#



#67

4-Bromophenyl-phenylether

Concen: 3.121 ng

RT: 16.075 min Scan# 2210

Delta R.T. -0.461 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

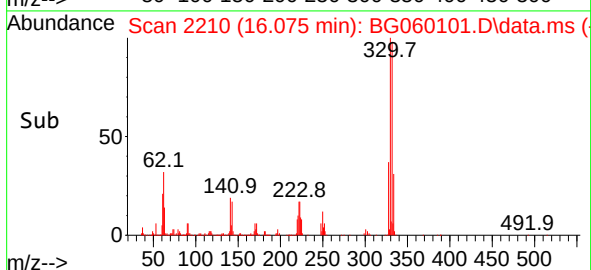
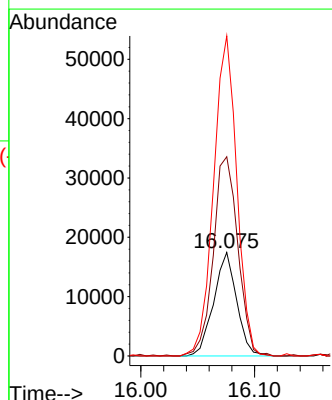
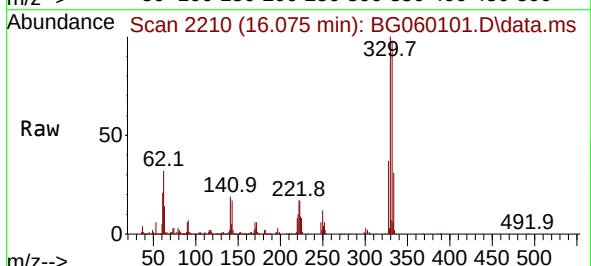
Tgt Ion:248 Resp: 24520

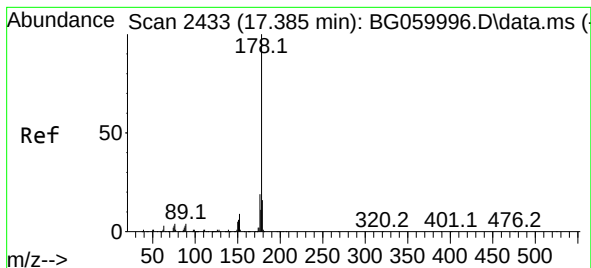
Ion Ratio Lower Upper

248 100

250 192.4 79.9 119.9#

141 309.1 28.3 42.5#





#71

Phenanthrene

Concen: 20.821 ng

RT: 17.380 min Scan# 2433

Delta R.T. -0.009 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

Instrument :

BNA\_G

ClientSampleId :

SOUTH-WALL

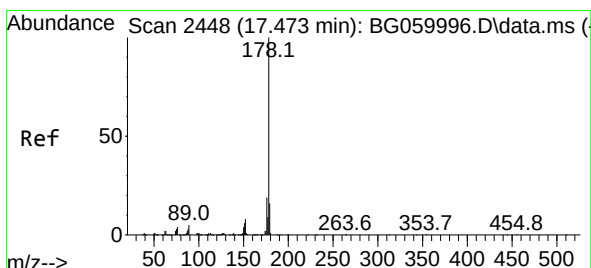
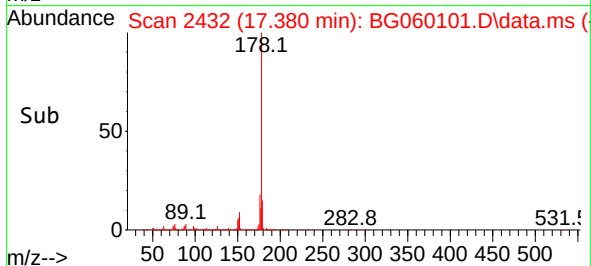
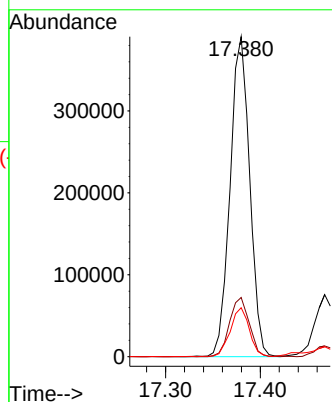
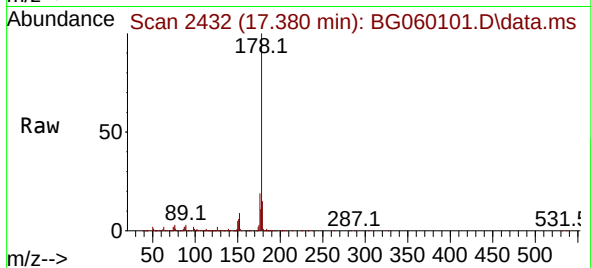
Tgt Ion:178 Resp: 561573

Ion Ratio Lower Upper

178 100

176 18.5 15.6 23.4

179 15.3 12.6 19.0



#72

Anthracene

Concen: 3.977 ng

RT: 17.468 min Scan# 2447

Delta R.T. -0.009 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

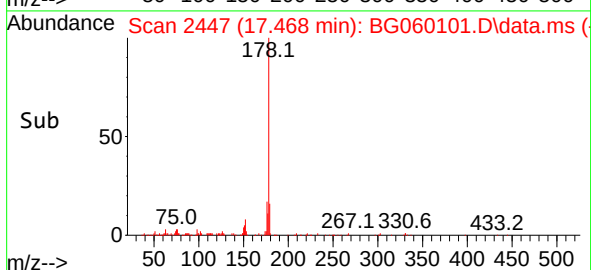
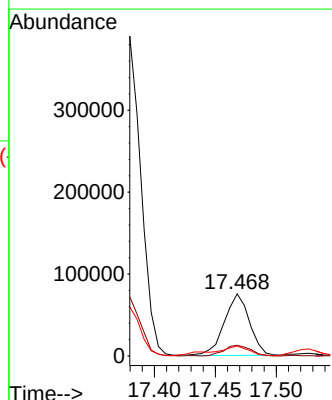
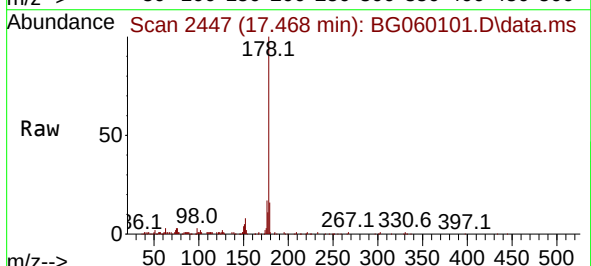
Tgt Ion:178 Resp: 107839

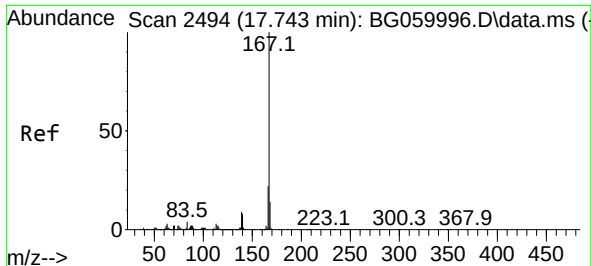
Ion Ratio Lower Upper

178 100

176 17.3 15.0 22.6

179 15.9 12.6 19.0

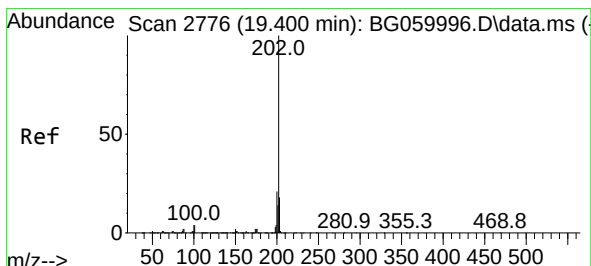
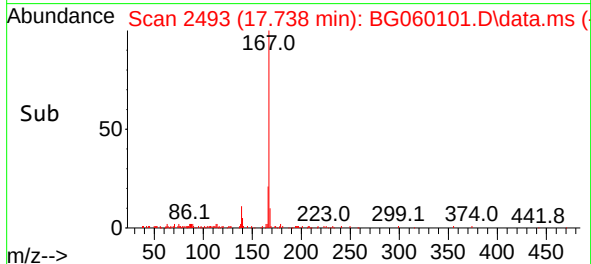
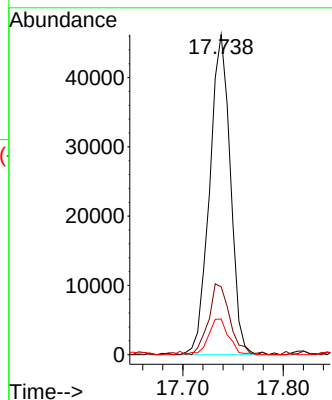
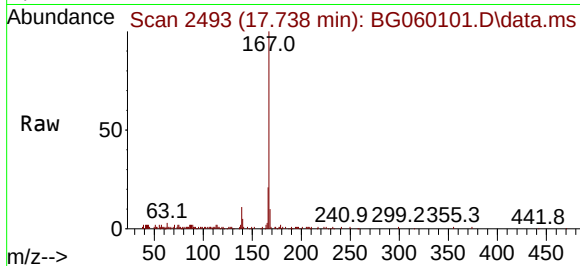




#73  
 Carbazole  
 Concen: 2.884 ng  
 RT: 17.738 min Scan# 2494  
 Delta R.T. -0.009 min  
 Lab File: BG060101.D  
 Acq: 20 Dec 2023 12:47

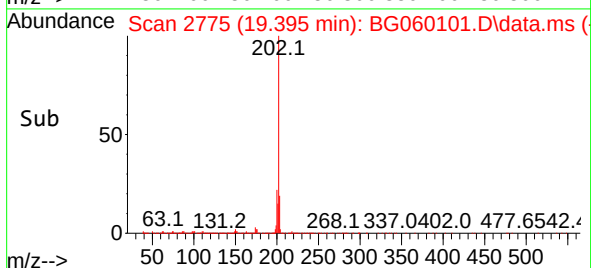
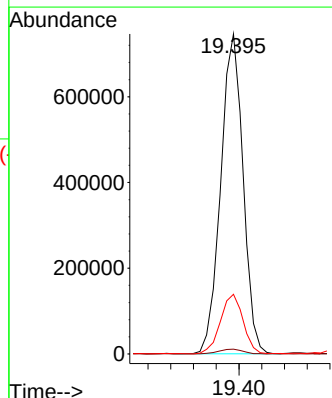
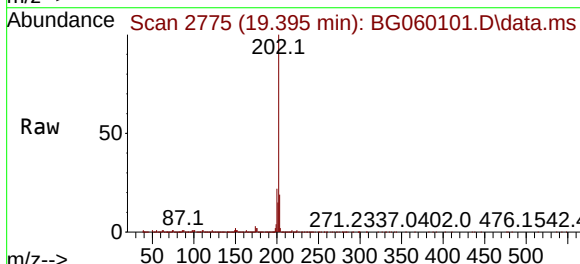
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOUTH-WALL

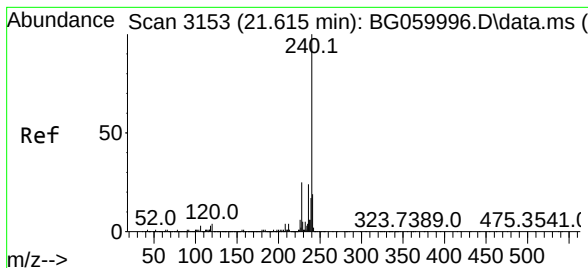
Tgt Ion:167 Resp: 66450  
 Ion Ratio Lower Upper  
 167 100  
 166 21.2 17.4 26.0  
 139 11.2 7.5 11.3



#75  
 Fluoranthene  
 Concen: 25.817 ng  
 RT: 19.395 min Scan# 2775  
 Delta R.T. -0.009 min  
 Lab File: BG060101.D  
 Acq: 20 Dec 2023 12:47

Tgt Ion:202 Resp: 1016091  
 Ion Ratio Lower Upper  
 202 100  
 101 1.5 0.0 24.2  
 203 18.6 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.610 min Scan# 3153

Delta R.T. -0.009 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

Instrument :

BNA\_G

ClientSampleId :

SOUTH-WALL

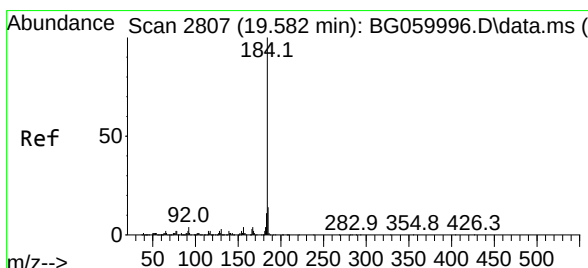
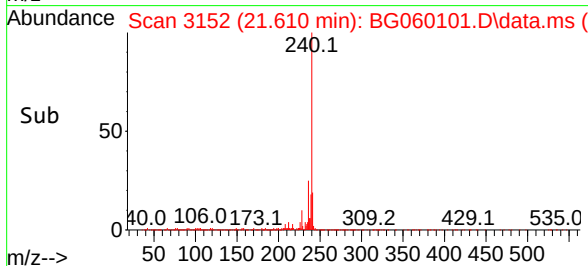
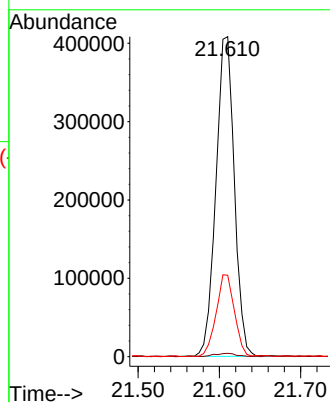
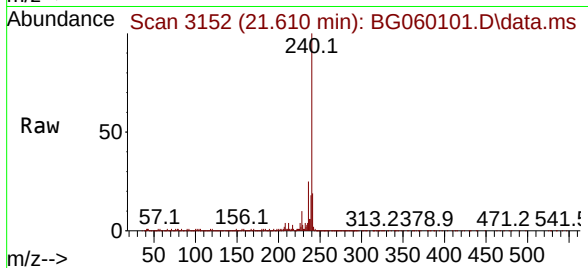
Tgt Ion:240 Resp: 642608

Ion Ratio Lower Upper

240 100

120 1.1 2.9 4.3#

236 25.4 19.4 29.2



#77

Benzidine

Concen: 3.966 ng

RT: 19.959 min Scan# 2871

Delta R.T. 0.373 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

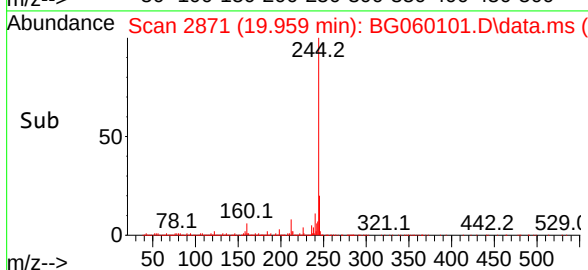
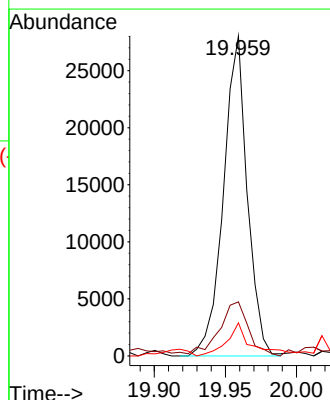
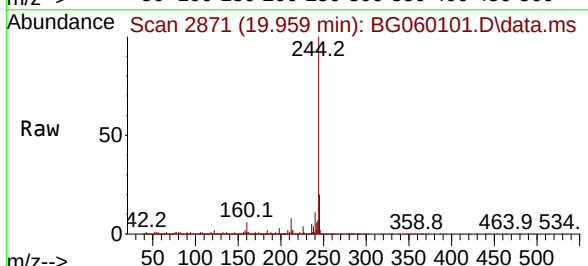
Tgt Ion:184 Resp: 32734

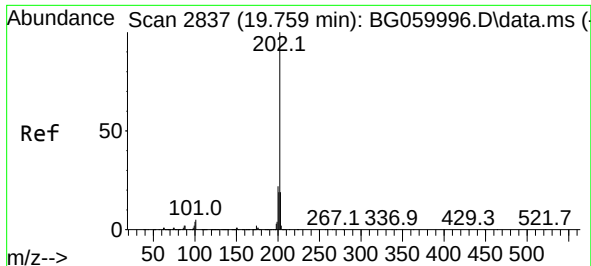
Ion Ratio Lower Upper

184 100

185 16.9 11.1 16.7#

183 10.4 9.0 13.4

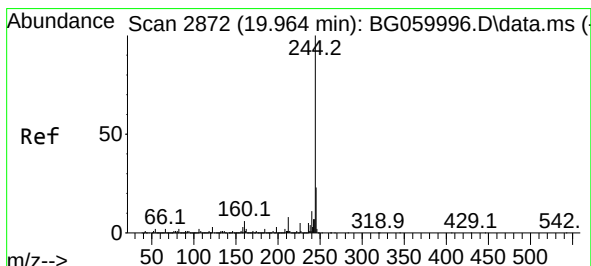
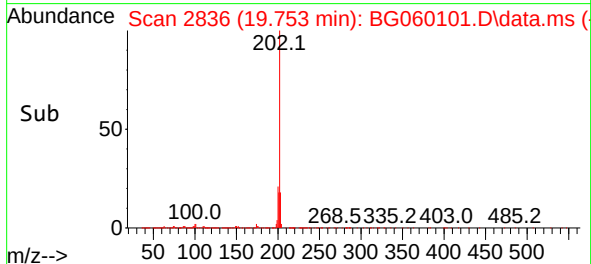
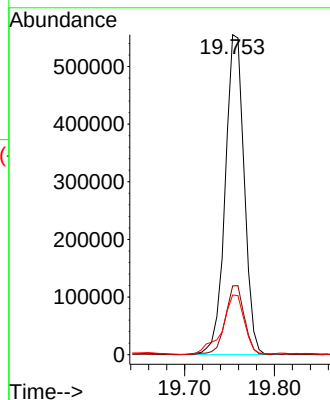
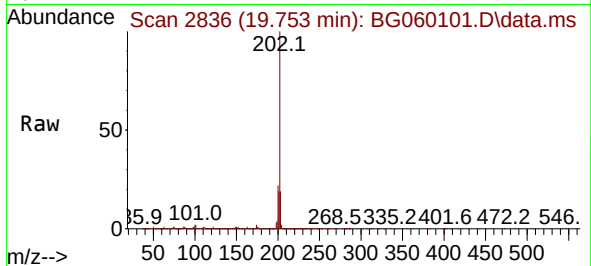




#78  
 Pyrene  
 Concen: 20.857 ng  
 RT: 19.753 min Scan# 21  
 Delta R.T. -0.009 min  
 Lab File: BG060101.D  
 Acq: 20 Dec 2023 12:47

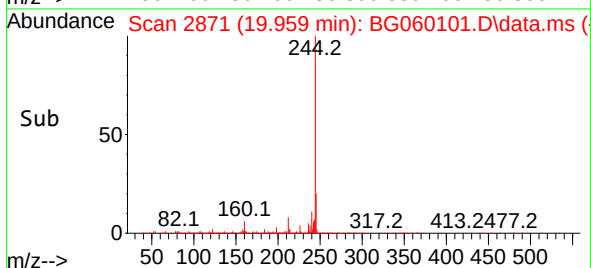
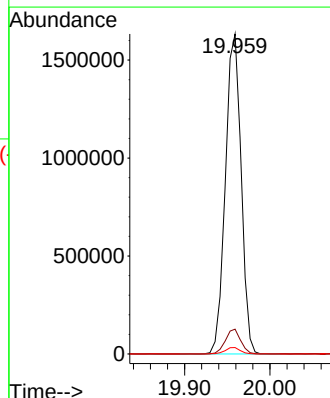
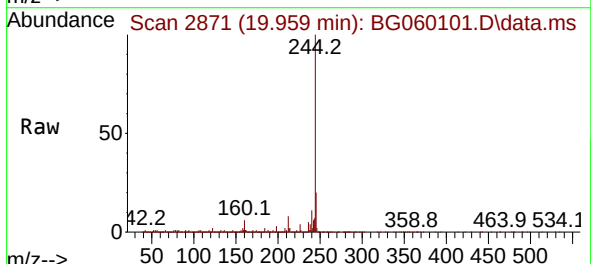
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SOUTH-WALL

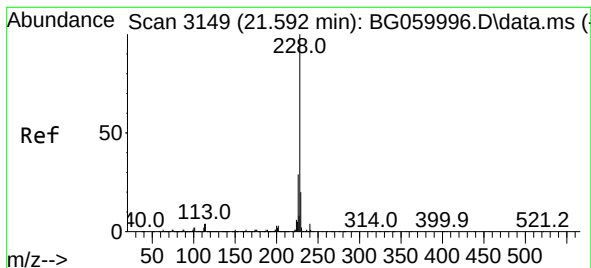
Tgt Ion:202 Resp: 812466  
 Ion Ratio Lower Upper  
 202 100  
 200 21.5 17.6 26.4  
 203 18.7 14.9 22.3



#79  
 Terphenyl-d14  
 Concen: 59.433 ng  
 RT: 19.959 min Scan# 2871  
 Delta R.T. -0.009 min  
 Lab File: BG060101.D  
 Acq: 20 Dec 2023 12:47

Tgt Ion:244 Resp: 2091918  
 Ion Ratio Lower Upper  
 244 100  
 212 7.8 6.8 10.2  
 122 2.0 2.6 3.8#





#81

Benzo(a)anthracene

Concen: 11.061 ng

RT: 21.587 min Scan# 3148

Delta R.T. -0.015 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

Instrument :

BNA\_G

ClientSampleId :

SOUTH-WALL

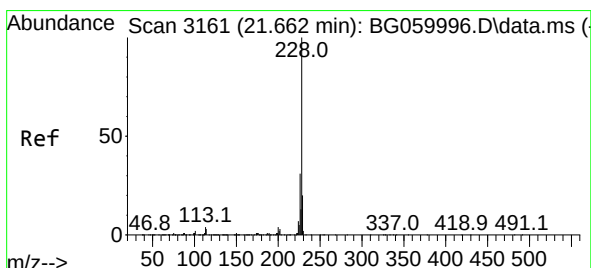
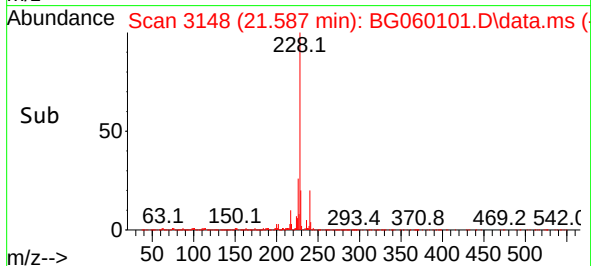
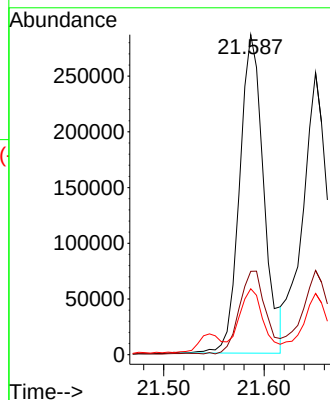
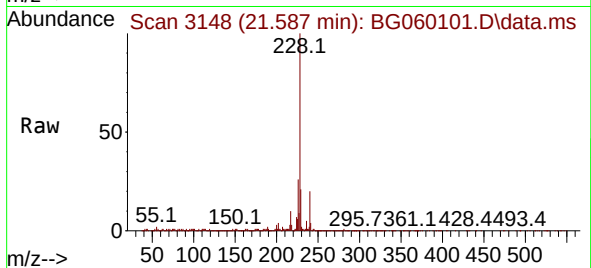
Tgt Ion:228 Resp: 477470

Ion Ratio Lower Upper

228 100

226 26.1 22.9 34.3

229 20.6 16.2 24.2



#83

Chrysene

Concen: 10.538 ng

RT: 21.651 min Scan# 3159

Delta R.T. -0.015 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

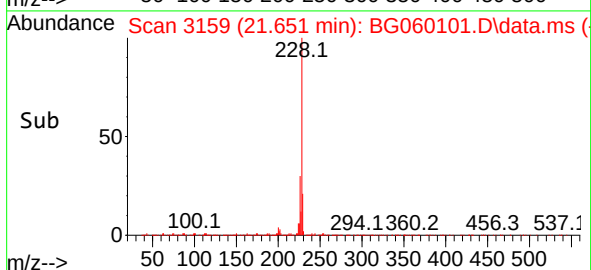
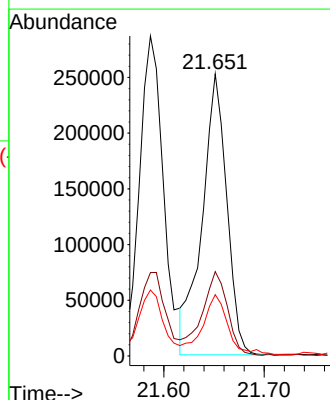
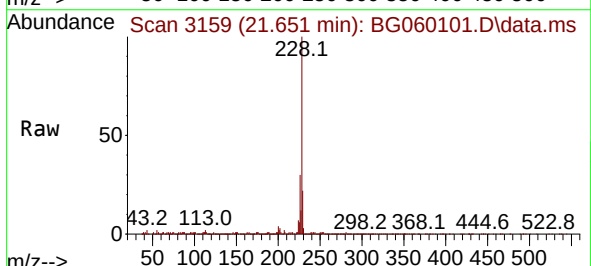
Tgt Ion:228 Resp: 430963

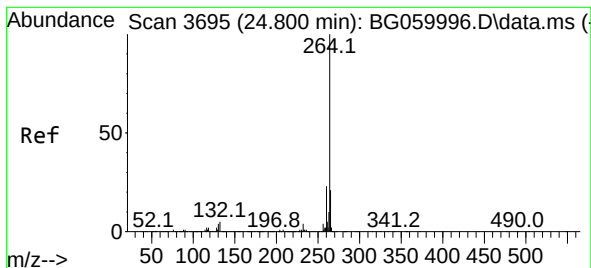
Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

229 21.7 16.2 24.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.795 min Scan# 3

Delta R.T. -0.021 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

Instrument :

BNA\_G

ClientSampleId :

SOUTH-WALL

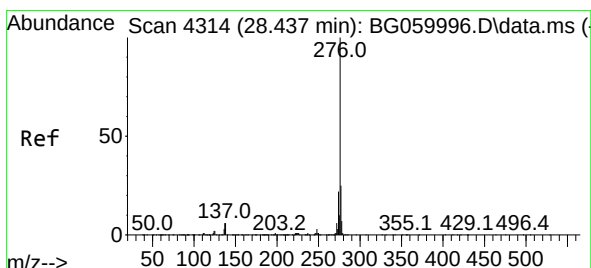
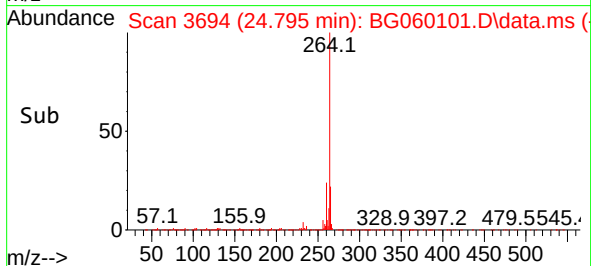
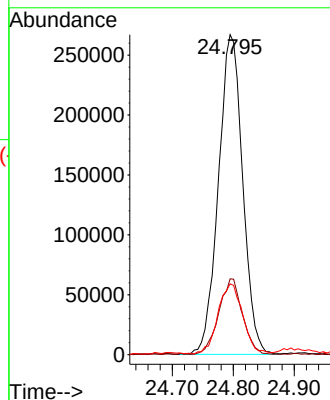
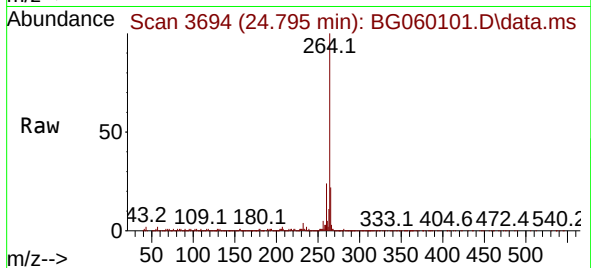
Tgt Ion:264 Resp: 737353

Ion Ratio Lower Upper

264 100

260 23.7 18.5 27.7

265 22.2 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.855 ng

RT: 28.426 min Scan# 4312

Delta R.T. -0.032 min

Lab File: BG060101.D

Acq: 20 Dec 2023 12:47

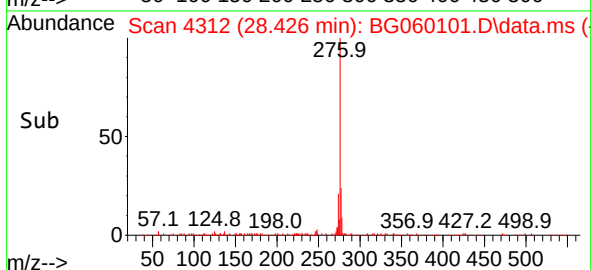
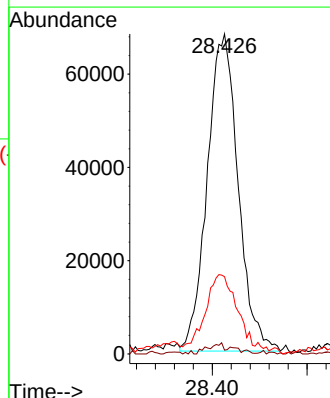
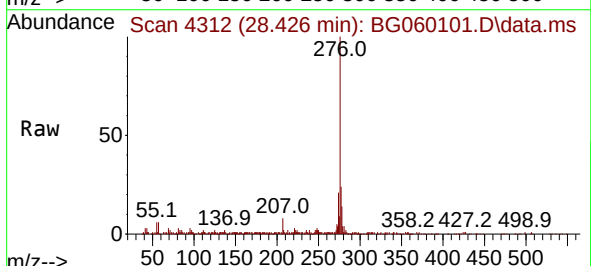
Tgt Ion:276 Resp: 308094

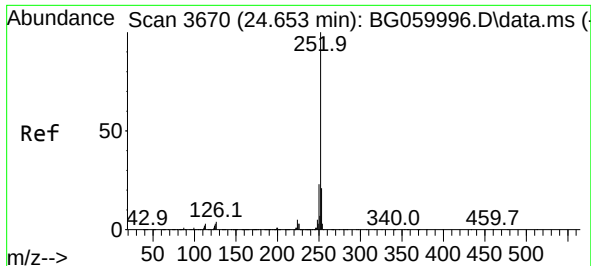
Ion Ratio Lower Upper

276 100

138 1.8 4.7 7.1#

277 22.1 20.0 30.0

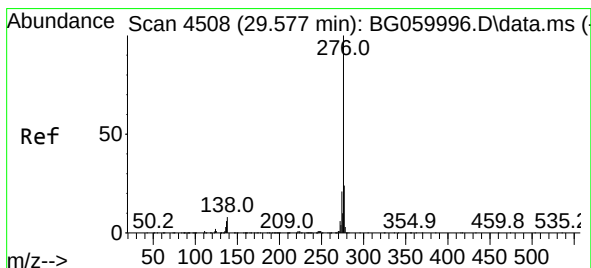
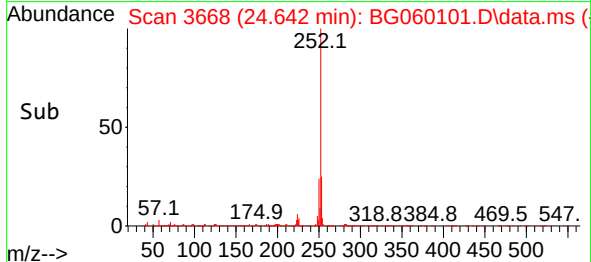
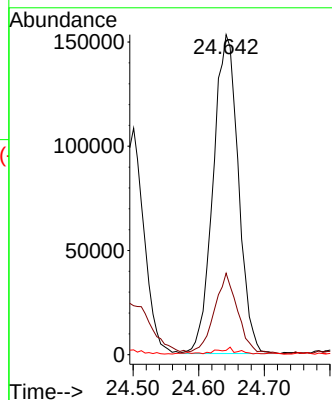
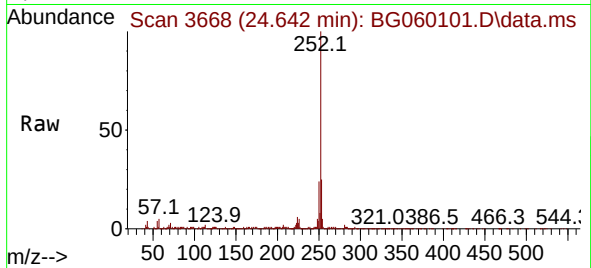




#90  
Benzo(a)pyrene  
Concen: 10.099 ng  
RT: 24.642 min Scan# 30  
Delta R.T. -0.021 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Instrument :  
BNA\_G  
ClientSampleId :  
SOUTH-WALL

Tgt Ion:252 Resp: 407467  
Ion Ratio Lower Upper  
252 100  
253 25.5 17.1 25.7  
125 1.4 2.6 4.0#



#92  
Benzo(g,h,i)perylene  
Concen: 6.685 ng  
RT: 29.554 min Scan# 4504  
Delta R.T. -0.044 min  
Lab File: BG060101.D  
Acq: 20 Dec 2023 12:47

Tgt Ion:276 Resp: 292595  
Ion Ratio Lower Upper  
276 100  
277 24.9 19.4 29.2  
138 2.7 6.0 9.0#

