

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG063023\  
 Data File : BG057935.D  
 Acq On : 1 Jul 2023 2:08  
 Operator : CG/JU  
 Sample : 03358-04 2X  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-4-(0-2)

Quant Time: Jul 01 02:56:56 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG062723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 28 01:12:33 2023  
 Response via : Initial Calibration

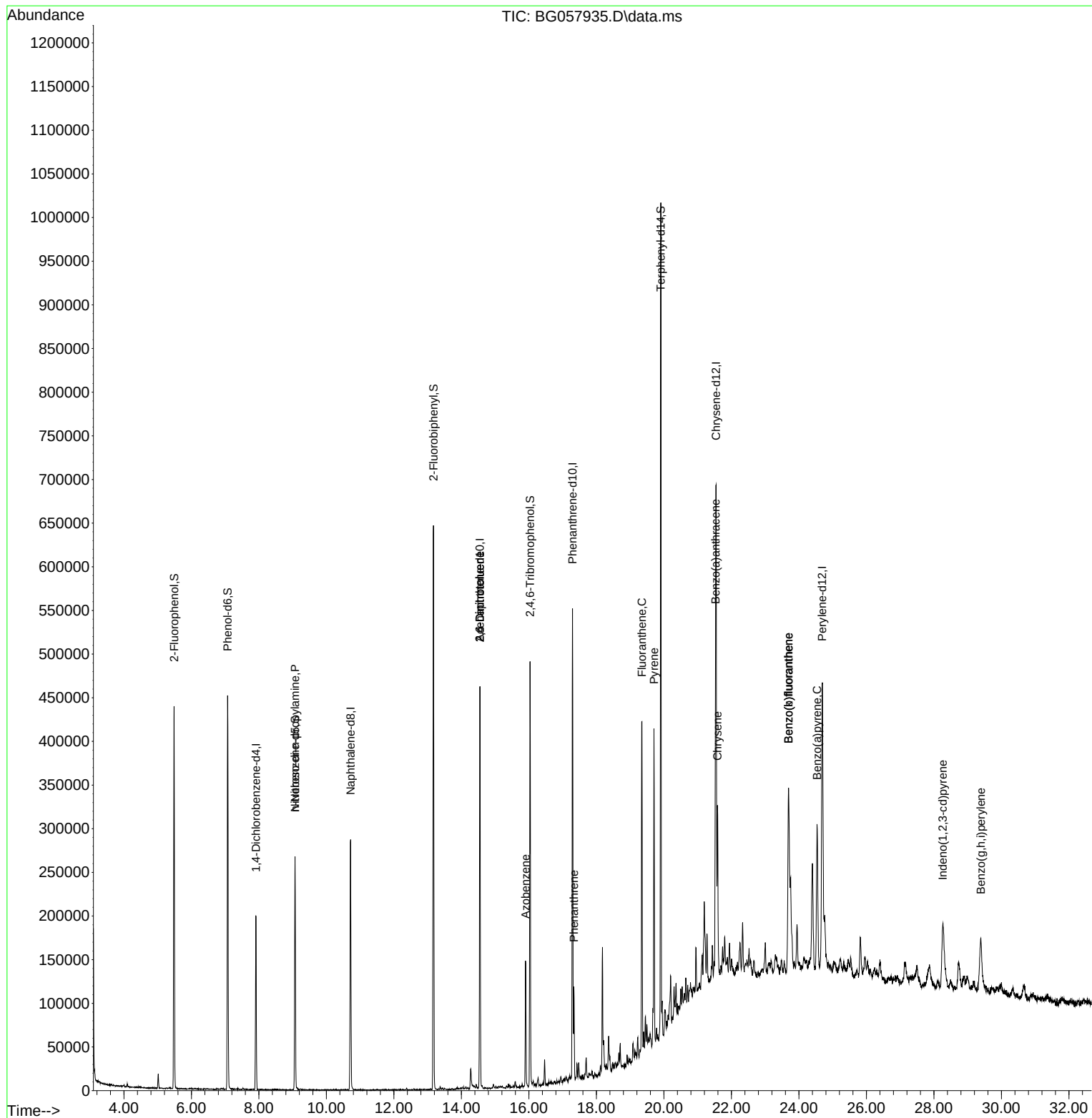
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.914  | 152  | 57047    | 20.000    | ng    | -0.01    |
| 21) Naphthalene-d8            | 10.716 | 136  | 249000   | 20.000    | ng    | -0.01    |
| 39) Acenaphthene-d10          | 14.547 | 164  | 163118   | 20.000    | ng    | -0.01    |
| 64) Phenanthrene-d10          | 17.291 | 188  | 342803   | 20.000    | ng    | -0.01    |
| 76) Chrysene-d12              | 21.545 | 240  | 281750   | 20.000    | ng    | -0.01    |
| 86) Perylene-d12              | 24.688 | 264  | 353572   | 20.000    | ng    | -0.02    |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.487  | 112  | 191811   | 51.444    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.073  | 99   | 276848   | 49.654    | ng    | -0.01    |
| 23) Nitrobenzene-d5           | 9.071  | 82   | 161373   | 31.761    | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol      | 16.034 | 330  | 105382   | 38.464    | ng    | -0.01    |
| 45) 2-Fluorobiphenyl          | 13.172 | 172  | 362110   | 33.877    | ng    | -0.01    |
| 79) Terphenyl-d14             | 19.905 | 244  | 494772   | 32.015    | ng    | -0.01    |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.068  | 77   | 598      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propyla... | 9.071  | 70   | 19927    | 5.341     | ng    | # 77     |
| 51) 2,6-Dinitrotoluene        | 14.547 | 165  | 21352    | 7.954     | ng    | # 25     |
| 57) 2,4-Dinitrotoluene        | 14.547 | 165  | 21352    | 5.482     | ng    | # 22     |
| 63) Azobenzene                | 15.904 | 77   | 43861    | 3.366     | ng    | # 1      |
| 71) Phenanthrene              | 17.332 | 178  | 62384    | 3.791     | ng    | 99       |
| 75) Fluoranthene              | 19.347 | 202  | 238770   | 11.518    | ng    | 99       |
| 78) Pyrene                    | 19.706 | 202  | 217048   | 10.789    | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.527 | 228  | 139814   | 7.171     | ng    | 97       |
| 83) Chrysene                  | 21.586 | 228  | 147217   | 7.977     | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.260 | 276  | 148083   | 6.322     | ng    | 94       |
| 88) Benzo(b)fluoranthene      | 23.689 | 252  | 262613   | 13.618    | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.689 | 252  | 262613   | 13.474    | ng    | 99       |
| 90) Benzo(a)pyrene            | 24.535 | 252  | 176021   | 9.214     | ng    | 95       |
| 92) Benzo(g,h,i)perylene      | 29.388 | 276  | 153236   | 7.936     | ng    | 98       |
| -----                         |        |      |          |           |       |          |

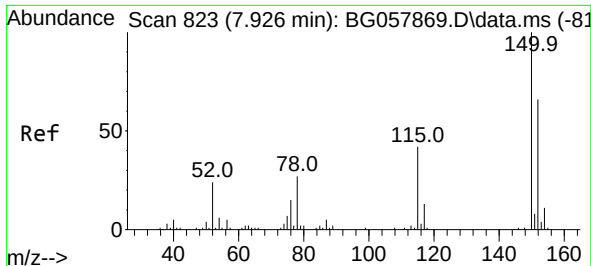
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG063023\  
Data File : BG057935.D  
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SB-4-(0-2)

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QLast Update : Wed Jun 28 01:12:33 2023  
Response via : Initial Calibration

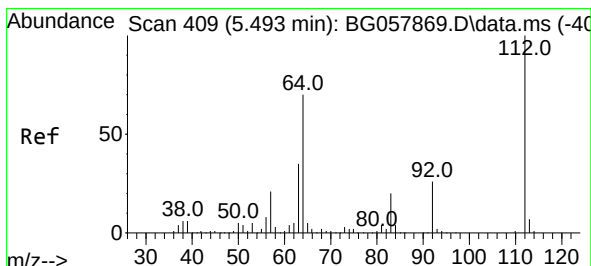
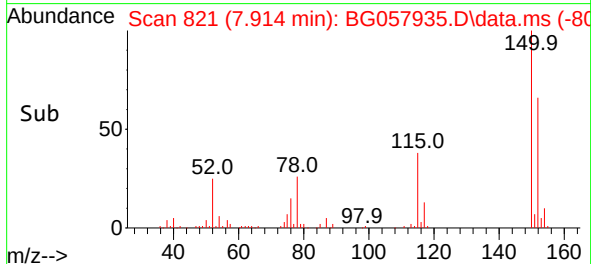
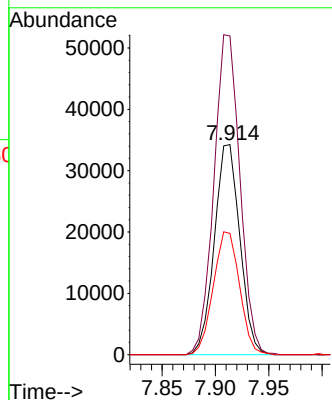
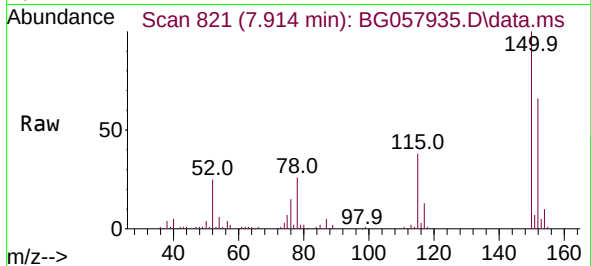




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.914 min Scan# 81  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

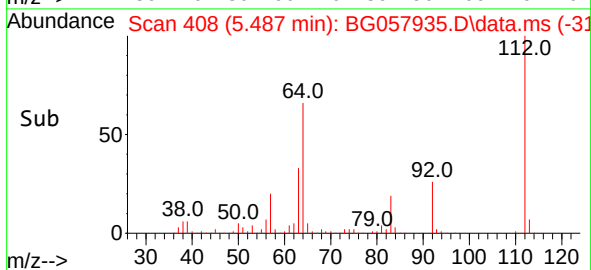
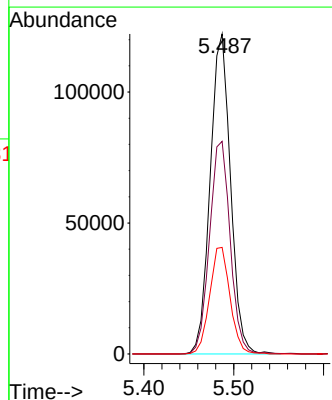
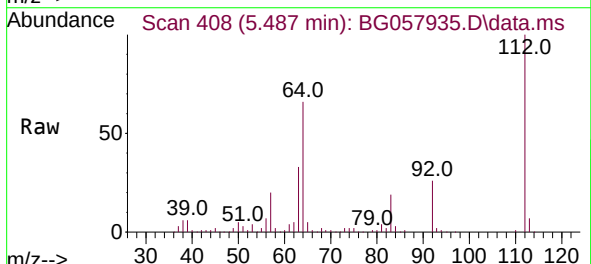
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

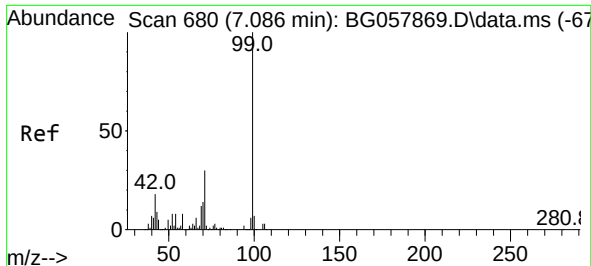
Tgt Ion:152 Resp: 57047  
Ion Ratio Lower Upper  
152 100  
150 151.8 122.0 183.0  
115 57.7 50.7 76.1



#5  
2-Fluorophenol  
Concen: 51.444 ng  
RT: 5.487 min Scan# 408  
Delta R.T. -0.006 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:112 Resp: 191811  
Ion Ratio Lower Upper  
112 100  
64 66.4 55.8 83.6  
63 33.3 27.9 41.9

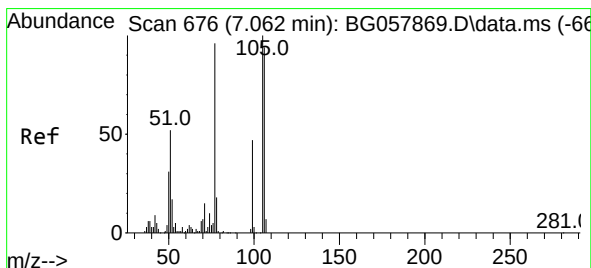
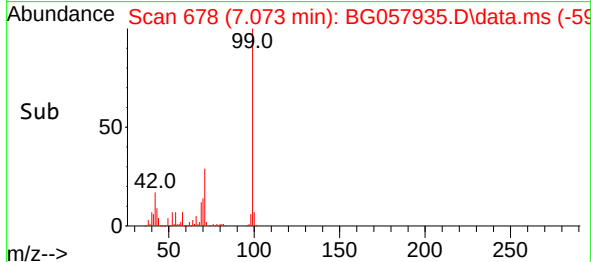
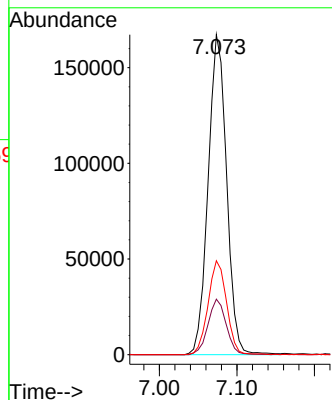
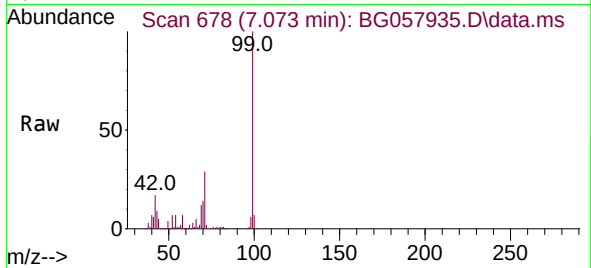




#7  
Phenol-d6  
Concen: 49.654 ng  
RT: 7.073 min Scan# 61  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

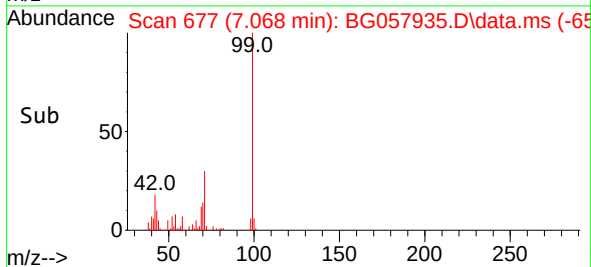
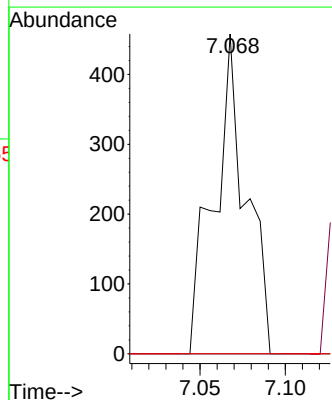
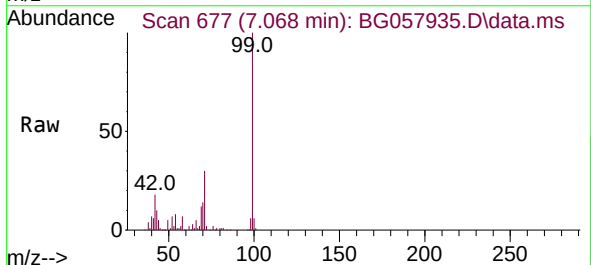
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

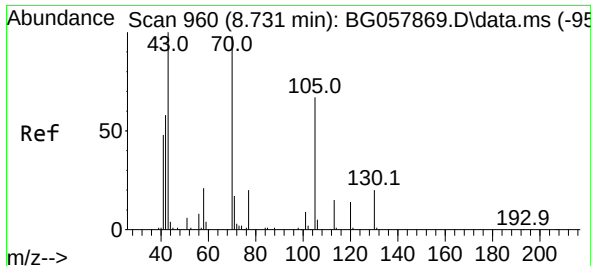
Tgt Ion: 99 Resp: 276848  
Ion Ratio Lower Upper  
99 100  
42 17.4 14.2 21.4  
71 29.3 23.9 35.9



#9  
Benzaldehyde  
Concen: Below Cal  
RT: 7.068 min Scan# 677  
Delta R.T. 0.006 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion: 77 Resp: 598  
Ion Ratio Lower Upper  
77 100  
105 0.0 83.7 123.7#  
106 0.0 77.4 117.4#

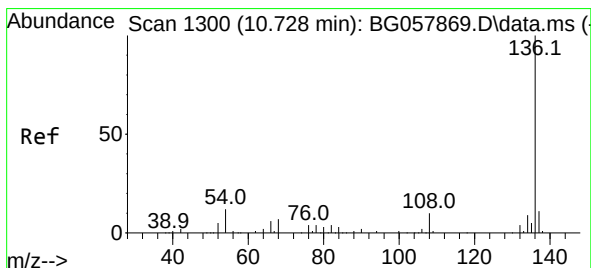
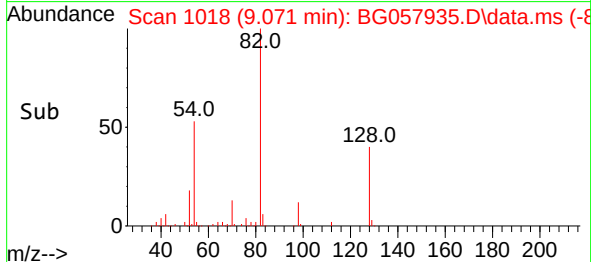
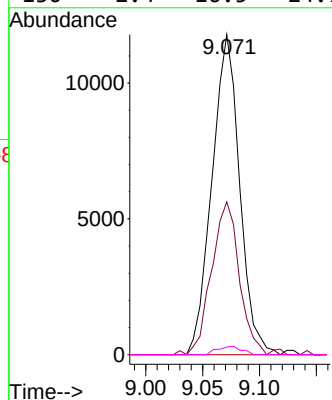
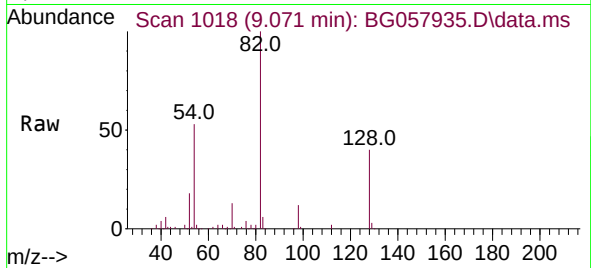




#19  
n-Nitroso-di-n-propylamine  
Concen: 5.341 ng  
RT: 9.071 min Scan# 1018  
Delta R.T. 0.340 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

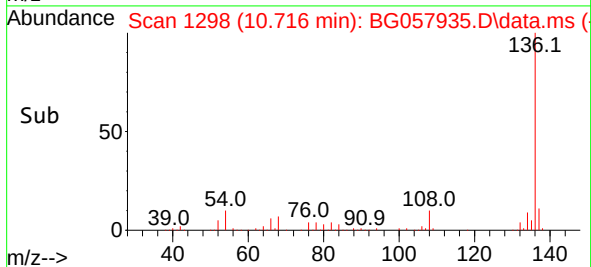
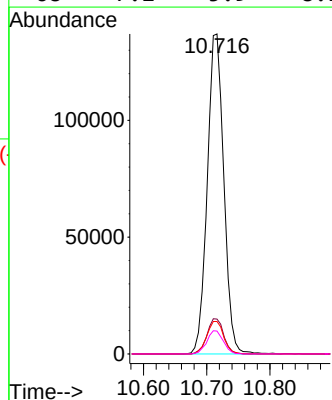
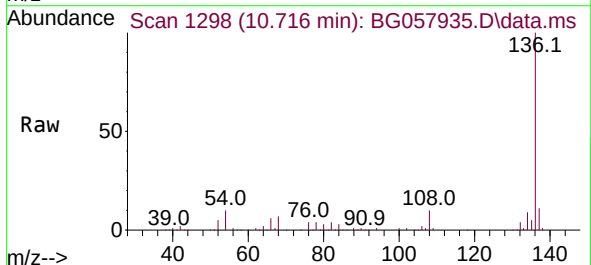
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

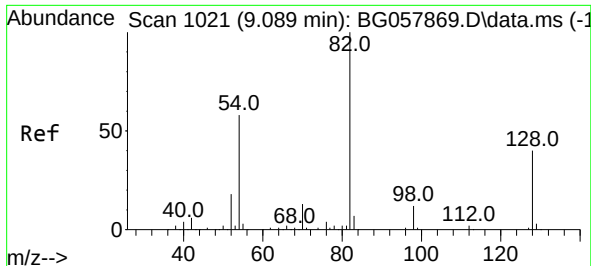
Tgt Ion: 70 Resp: 19927  
Ion Ratio Lower Upper  
70 100  
42 47.8 48.4 72.6#  
101 0.0 7.2 10.8#  
130 2.4 16.5 24.7#



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.716 min Scan# 1298  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:136 Resp: 249000  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 10.1 9.3 13.9  
68 7.2 5.9 8.9





#23

Nitrobenzene-d5

Concen: 31.761 ng

RT: 9.071 min Scan# 1018

Delta R.T. -0.018 min

Lab File: BG057935.D

Acq: 1 Jul 2023 2:08

Instrument :

BNA\_G

ClientSampleId :

SB-4-(0-2)

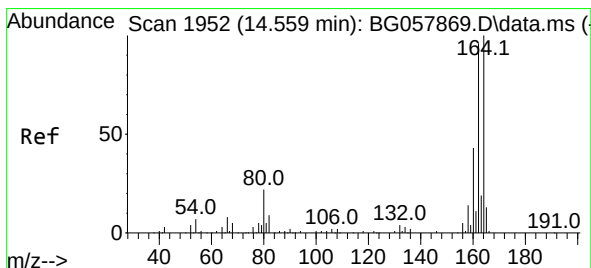
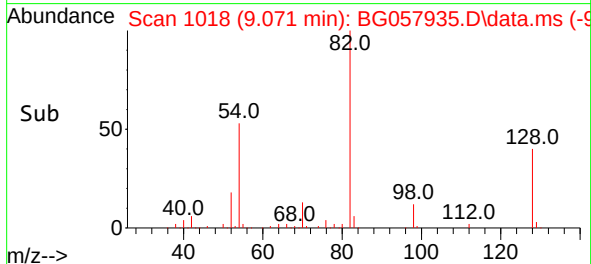
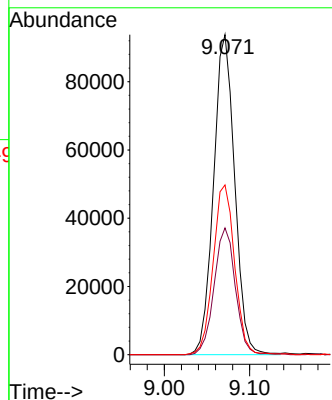
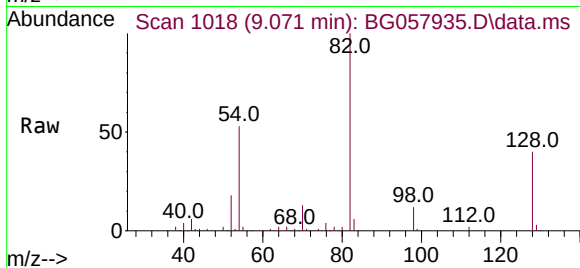
Tgt Ion: 82 Resp: 161373

Ion Ratio Lower Upper

82 100

128 39.6 32.2 48.4

54 53.1 46.1 69.1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.547 min Scan# 1950

Delta R.T. -0.012 min

Lab File: BG057935.D

Acq: 1 Jul 2023 2:08

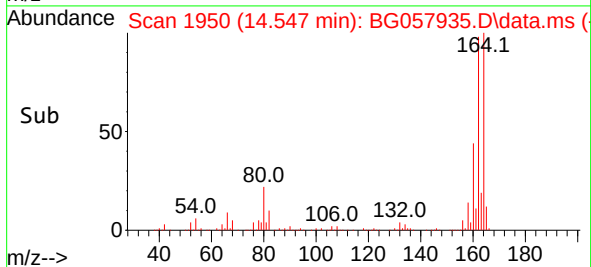
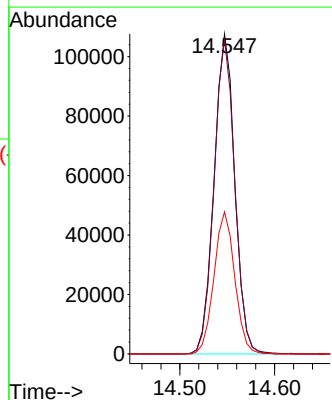
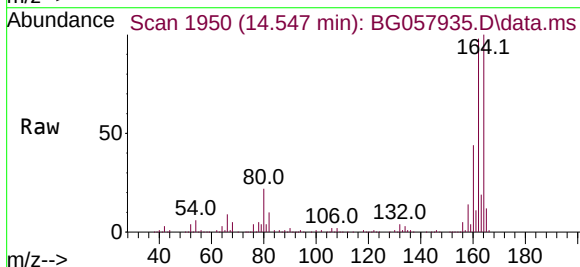
Tgt Ion:164 Resp: 163118

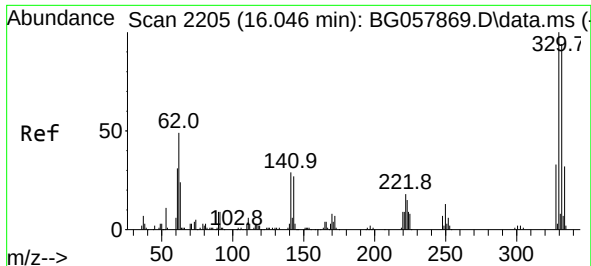
Ion Ratio Lower Upper

164 100

162 98.2 76.4 114.6

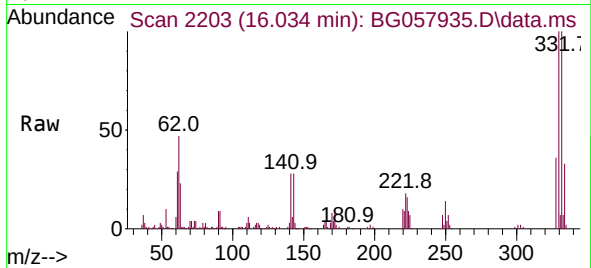
160 44.4 34.2 51.2



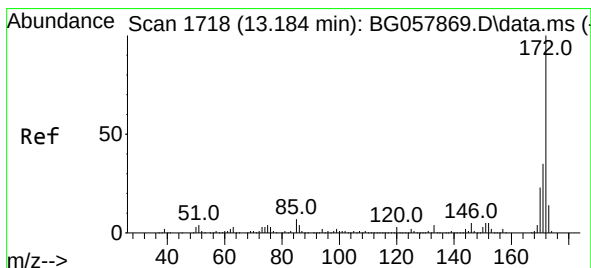
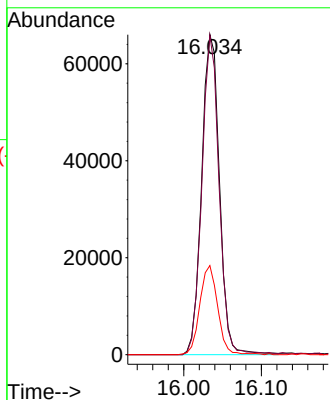
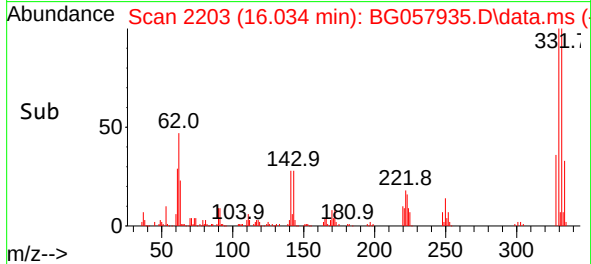


#42  
2,4,6-Tribromophenol  
Concen: 38.464 ng  
RT: 16.034 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

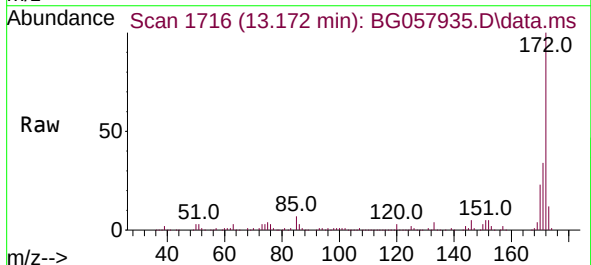
Instrument :  
BNA\_G  
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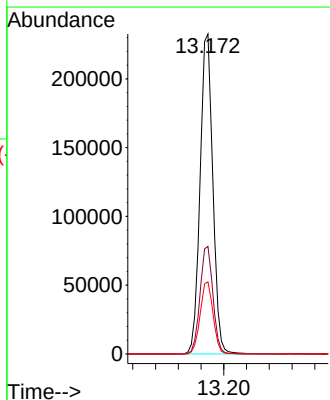
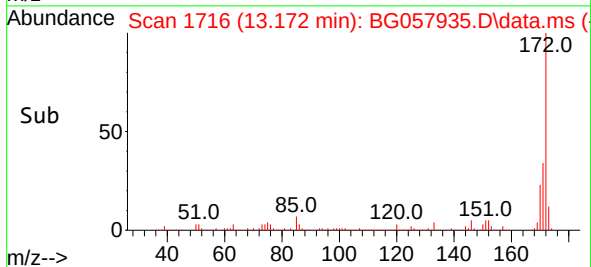
Tgt Ion:330 Resp: 105382  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.1 115.7  
141 27.9 22.2 33.4

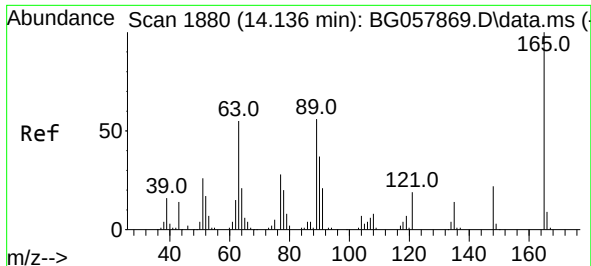


#45  
2-Fluorobiphenyl  
Concen: 33.877 ng  
RT: 13.172 min Scan# 1716  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08



Tgt Ion:172 Resp: 362110  
Ion Ratio Lower Upper  
172 100  
171 33.6 27.8 41.8  
170 22.5 18.6 27.8

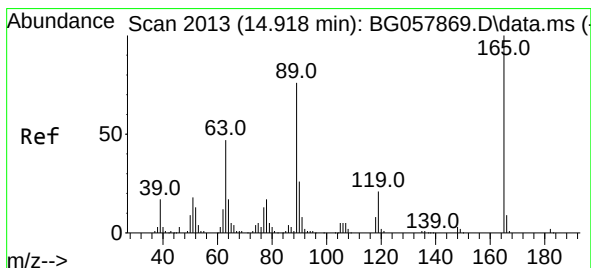
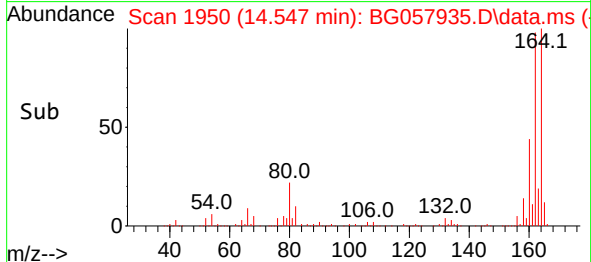
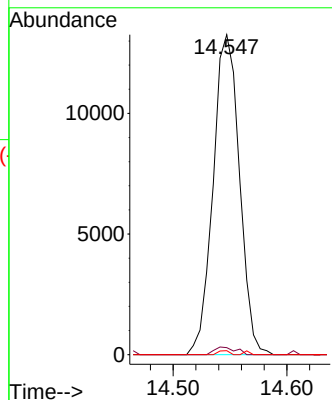
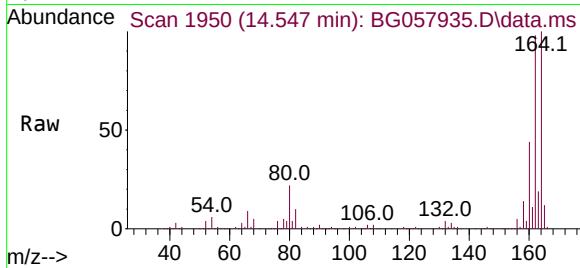




#51  
2,6-Dinitrotoluene  
Concen: 7.954 ng  
RT: 14.547 min Scan# 1950  
Delta R.T. 0.411 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

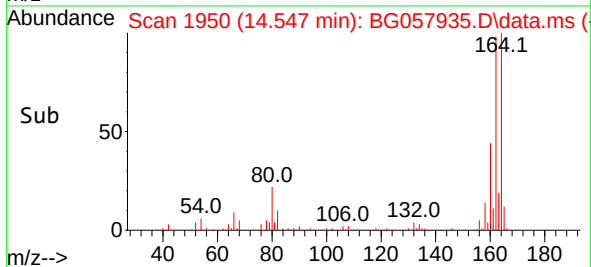
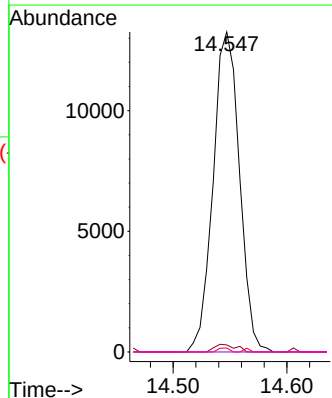
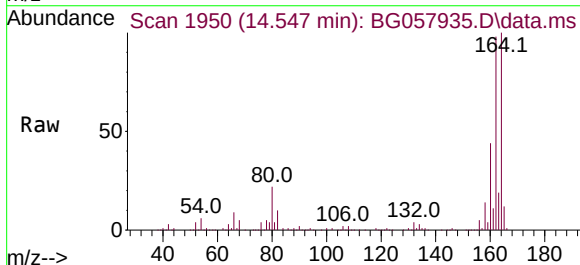
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

Tgt Ion:165 Resp: 21352  
Ion Ratio Lower Upper  
165 100  
63 2.2 46.4 69.6#  
89 1.3 45.0 67.6#

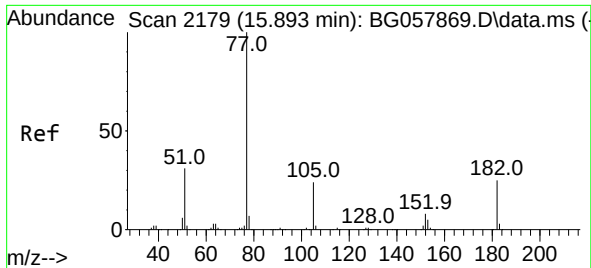


#57  
2,4-Dinitrotoluene  
Concen: 5.482 ng  
RT: 14.547 min Scan# 1950  
Delta R.T. -0.370 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:165 Resp: 21352  
Ion Ratio Lower Upper  
165 100  
63 2.2 37.6 56.4#  
89 1.3 61.0 91.4#  
182 0.0 1.9 2.9#



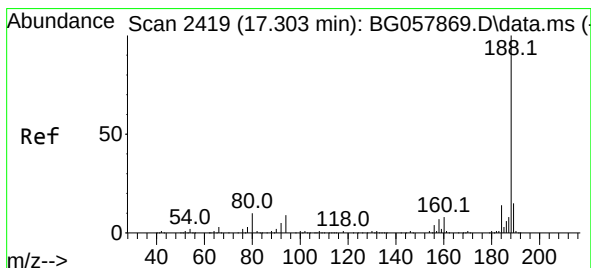
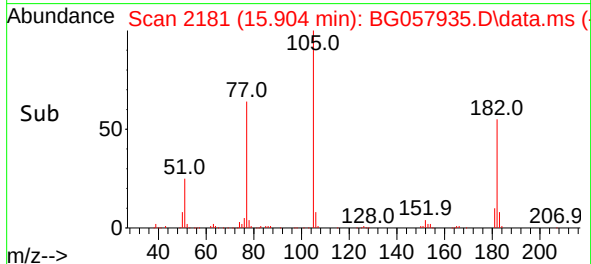
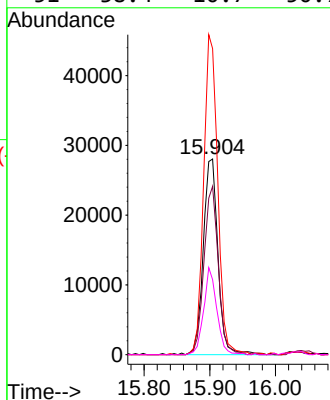
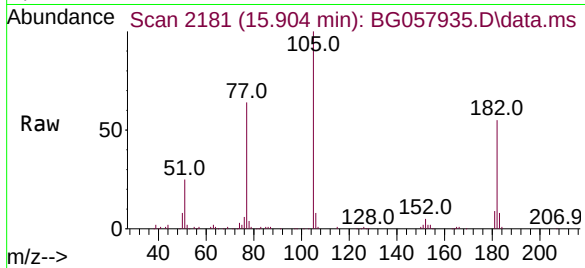




#63  
 Azobenzene  
 Concen: 3.366 ng  
 RT: 15.904 min Scan# 2179  
 Delta R.T. 0.011 min  
 Lab File: BG057935.D  
 Acq: 1 Jul 2023 2:08

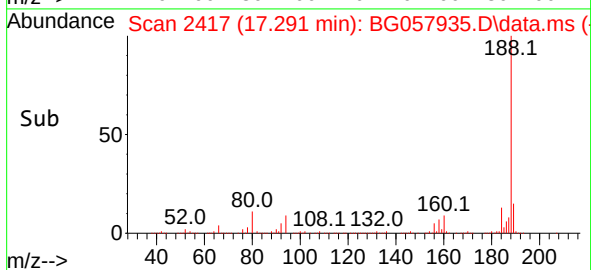
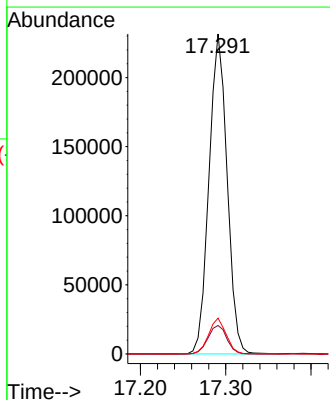
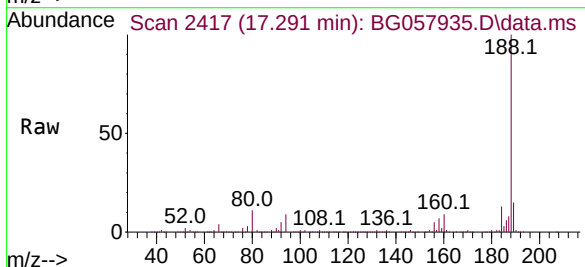
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-4-(0-2)

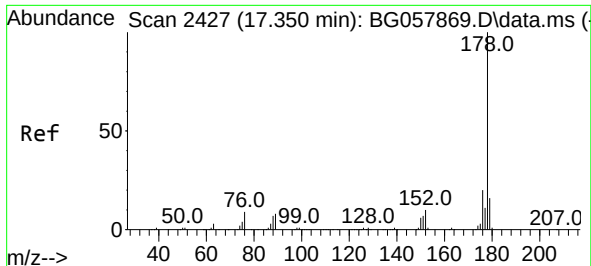
Tgt Ion: 77 Resp: 43861  
 Ion Ratio Lower Upper  
 77 100  
 182 86.1 5.1 45.1#  
 105 156.5 3.9 43.9#  
 51 38.4 10.7 50.7



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 17.291 min Scan# 2417  
 Delta R.T. -0.012 min  
 Lab File: BG057935.D  
 Acq: 1 Jul 2023 2:08

Tgt Ion: 188 Resp: 342803  
 Ion Ratio Lower Upper  
 188 100  
 94 8.9 7.2 10.8  
 80 11.2 8.4 12.6

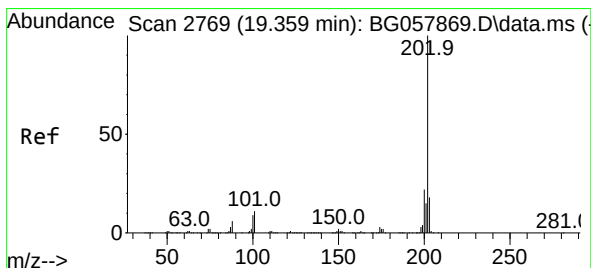
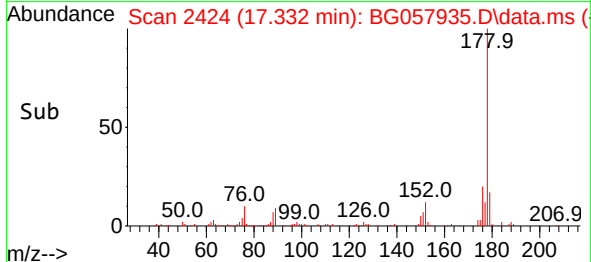
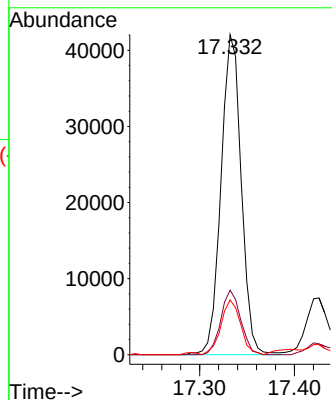
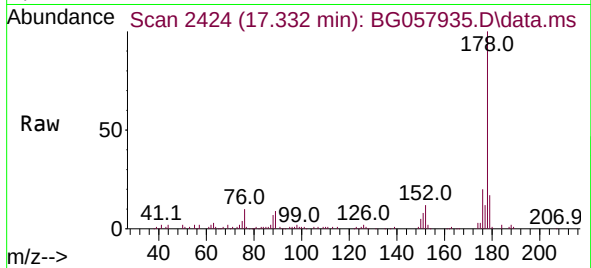




#71  
Phenanthrene  
Concen: 3.791 ng  
RT: 17.332 min Scan# 2427  
Delta R.T. -0.018 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

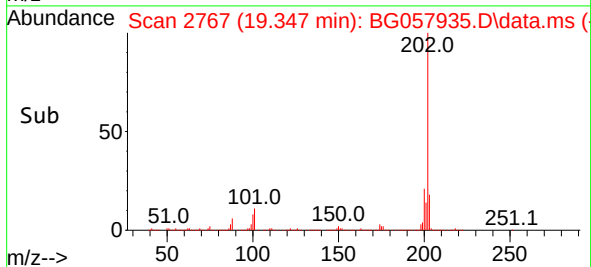
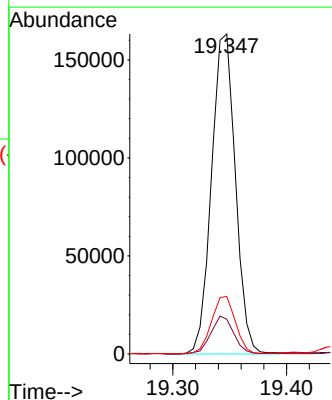
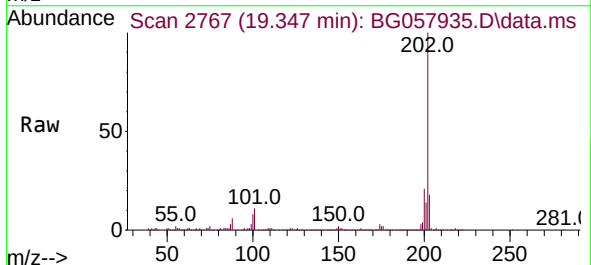
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

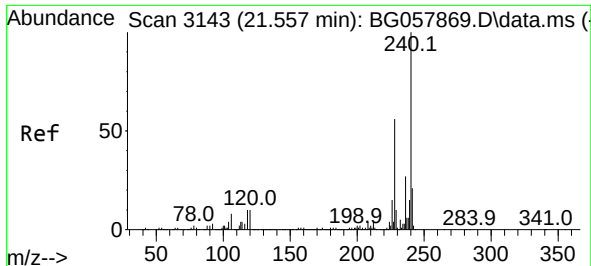
Tgt Ion:178 Resp: 62384  
Ion Ratio Lower Upper  
178 100  
176 20.1 16.3 24.5  
179 17.1 13.2 19.8



#75  
Fluoranthene  
Concen: 11.518 ng  
RT: 19.347 min Scan# 2767  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:202 Resp: 238770  
Ion Ratio Lower Upper  
202 100  
101 10.9 0.0 31.3  
203 18.0 0.0 38.2

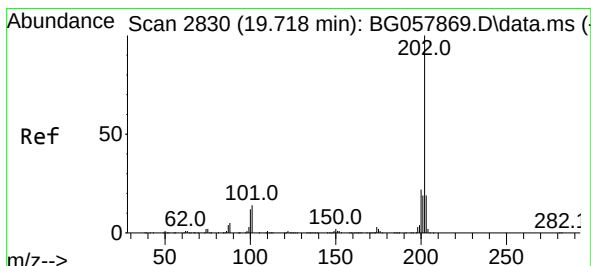
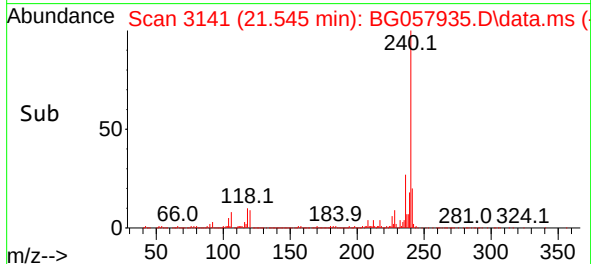
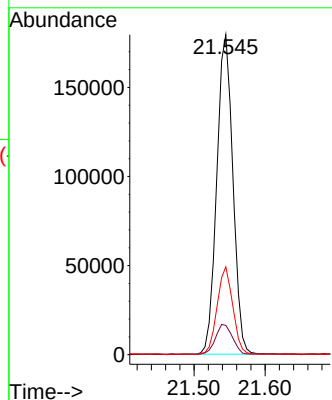
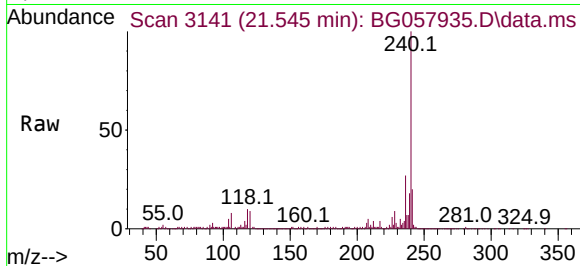




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.545 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

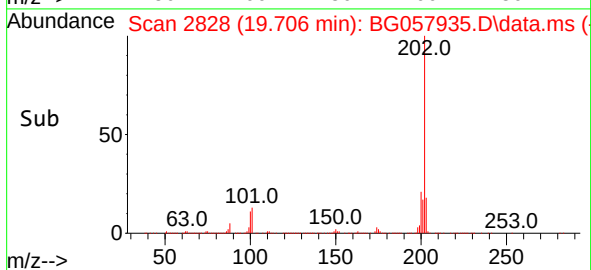
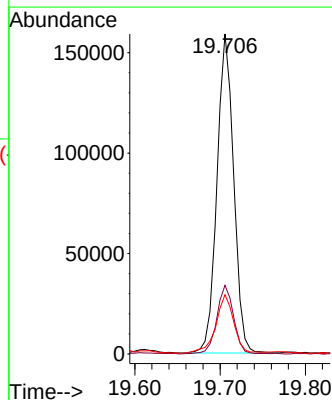
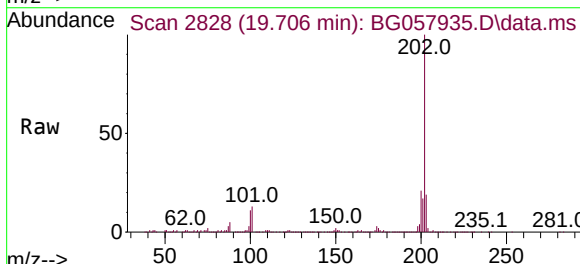
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

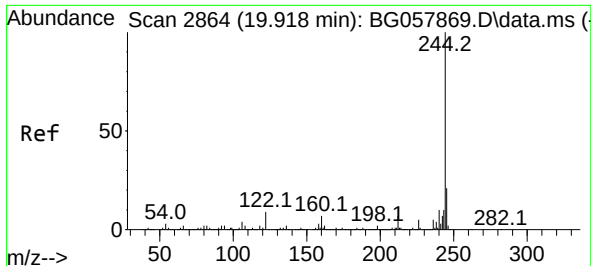
Tgt Ion:240 Resp: 281750  
Ion Ratio Lower Upper  
240 100  
120 9.1 8.1 12.1  
236 27.5 21.9 32.9



#78  
Pyrene  
Concen: 10.789 ng  
RT: 19.706 min Scan# 2828  
Delta R.T. -0.012 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:202 Resp: 217048  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.7 26.5  
203 18.5 15.2 22.8

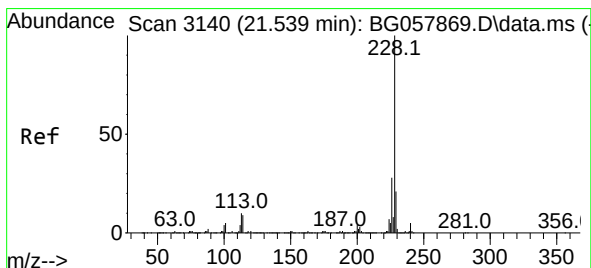
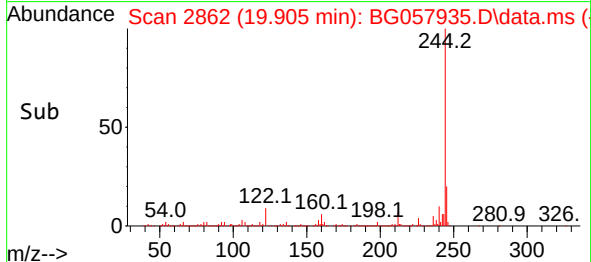
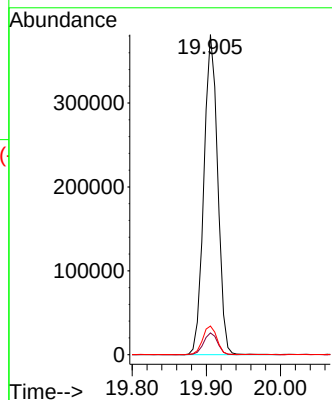
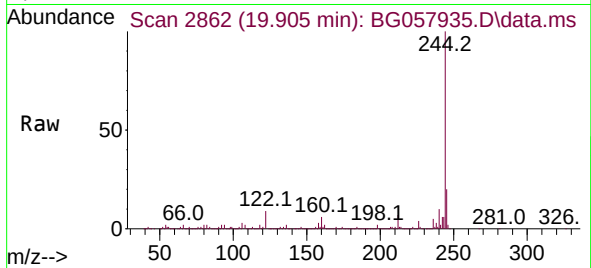




#79  
 Terphenyl-d14  
 Concen: 32.015 ng  
 RT: 19.905 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: BG057935.D  
 Acq: 1 Jul 2023 2:08

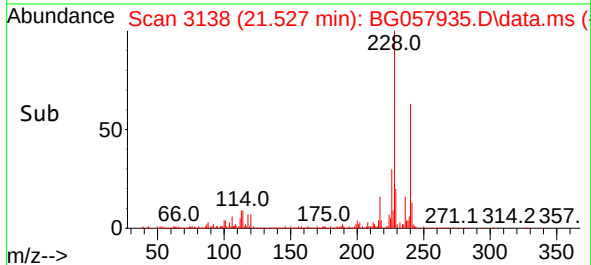
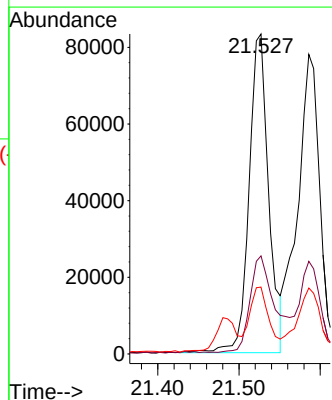
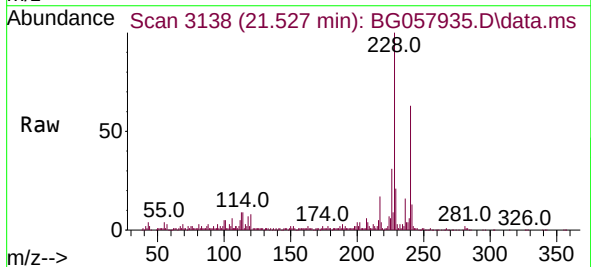
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-4-(0-2)

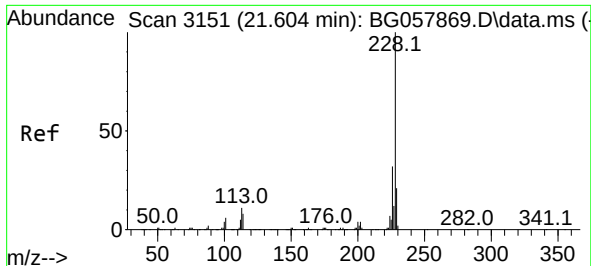
Tgt Ion:244 Resp: 494772  
 Ion Ratio Lower Upper  
 244 100  
 212 6.8 5.9 8.9  
 122 8.9 7.4 11.0



#81  
 Benzo(a)anthracene  
 Concen: 7.171 ng  
 RT: 21.527 min Scan# 3138  
 Delta R.T. -0.012 min  
 Lab File: BG057935.D  
 Acq: 1 Jul 2023 2:08

Tgt Ion:228 Resp: 139814  
 Ion Ratio Lower Upper  
 228 100  
 226 30.6 22.7 34.1  
 229 20.9 16.5 24.7

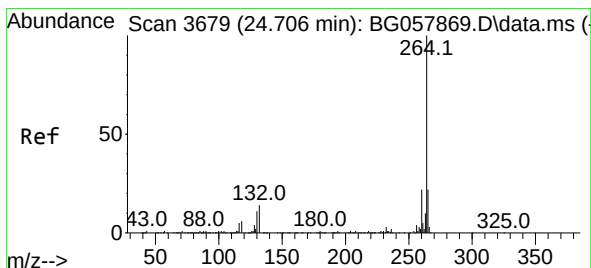
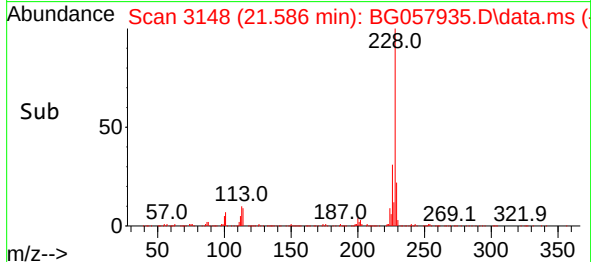
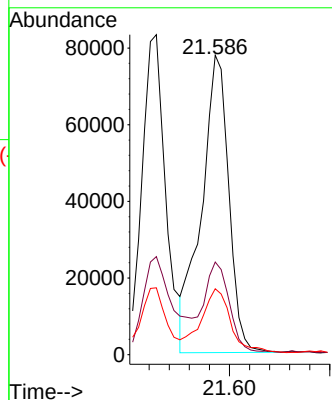
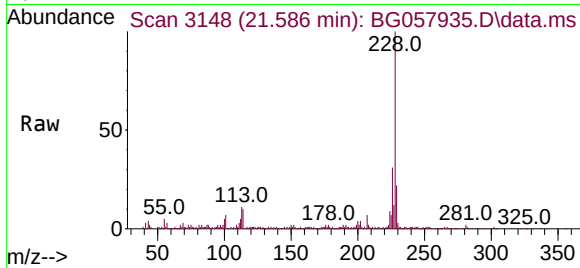




#83  
Chrysene  
Concen: 7.977 ng  
RT: 21.586 min Scan# 3151  
Delta R.T. -0.018 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

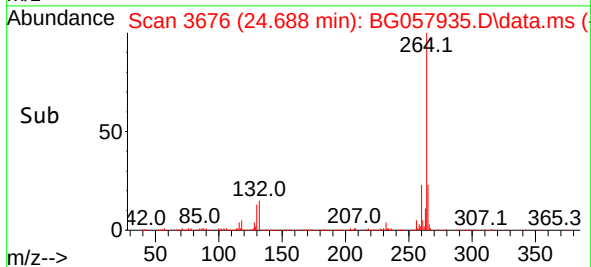
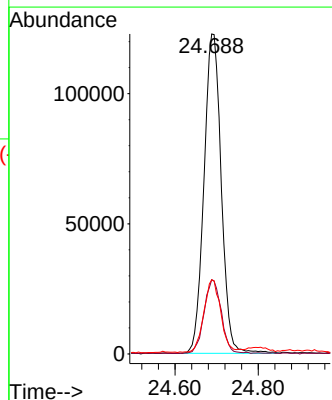
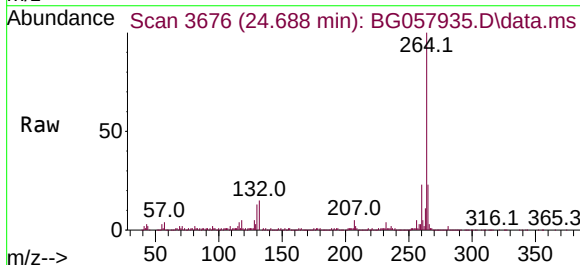
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

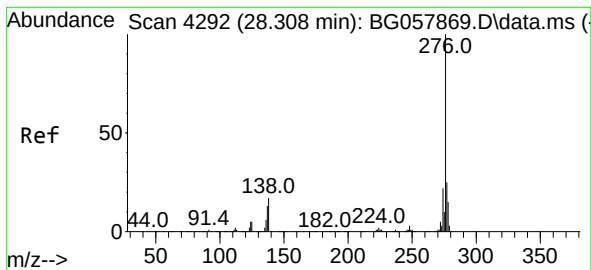
Tgt Ion:228 Resp: 147217  
Ion Ratio Lower Upper  
228 100  
226 30.9 25.3 37.9  
229 22.0 16.5 24.7



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.688 min Scan# 3676  
Delta R.T. -0.018 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:264 Resp: 353572  
Ion Ratio Lower Upper  
264 100  
260 23.2 17.8 26.8  
265 23.2 17.3 25.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.322 ng

RT: 28.260 min Scan# 41

Delta R.T. -0.047 min

Lab File: BG057935.D

Acq: 1 Jul 2023 2:08

Instrument :

BNA\_G

ClientSampleId :

SB-4-(0-2)

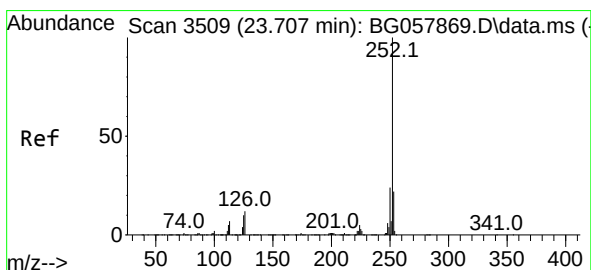
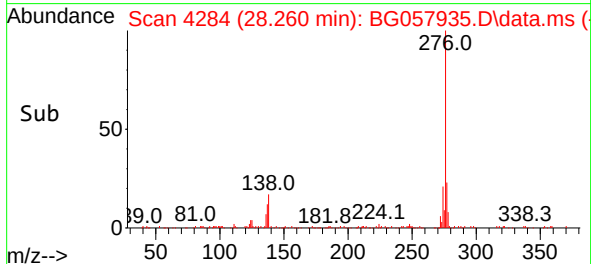
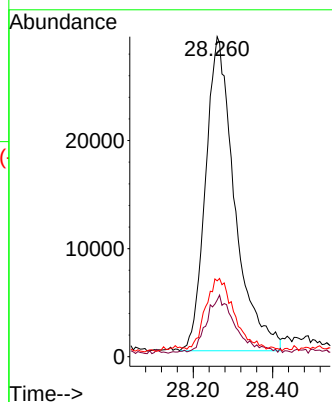
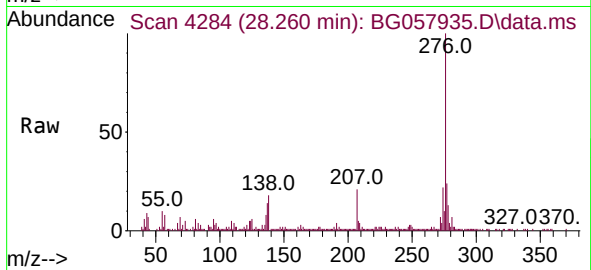
Tgt Ion:276 Resp: 148083

Ion Ratio Lower Upper

276 100

138 17.7 12.2 18.4

277 22.1 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 13.618 ng

RT: 23.689 min Scan# 3506

Delta R.T. -0.018 min

Lab File: BG057935.D

Acq: 1 Jul 2023 2:08

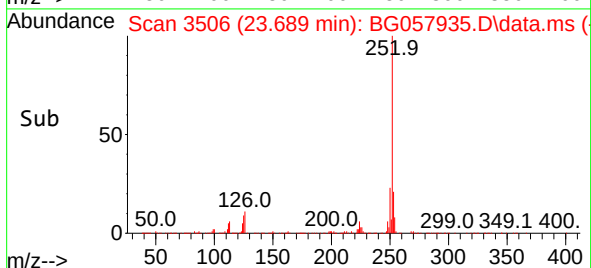
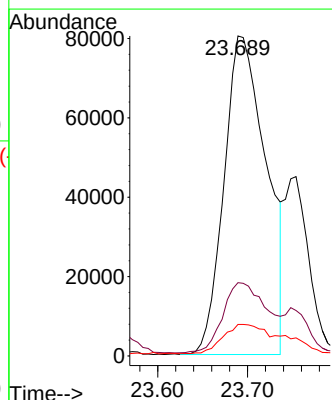
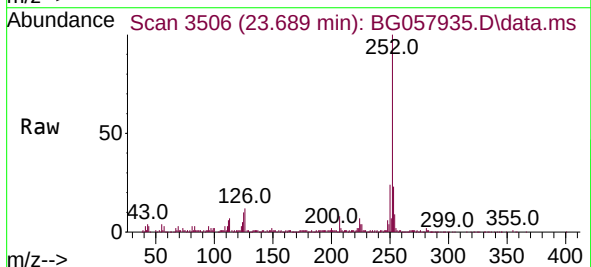
Tgt Ion:252 Resp: 262613

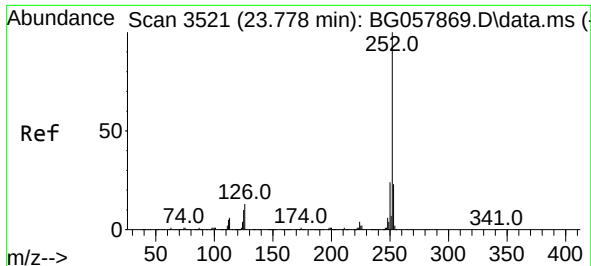
Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

125 9.9 7.7 11.5

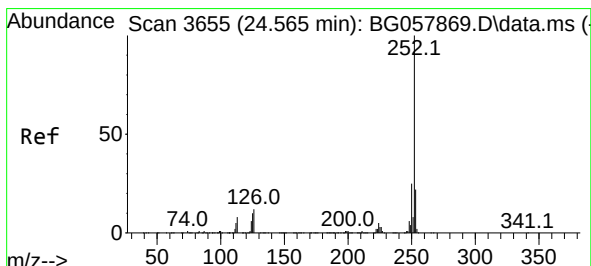
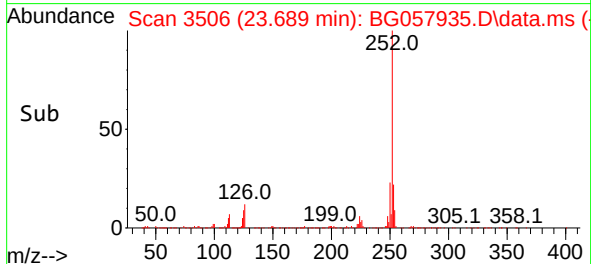
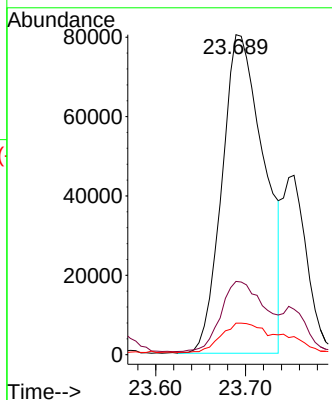
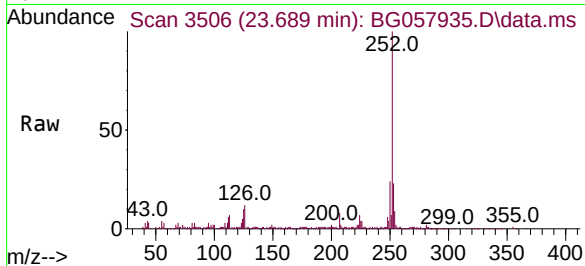




#89  
Benzo(k)fluoranthene  
Concen: 13.474 ng  
RT: 23.689 min Scan# 31  
Delta R.T. -0.088 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

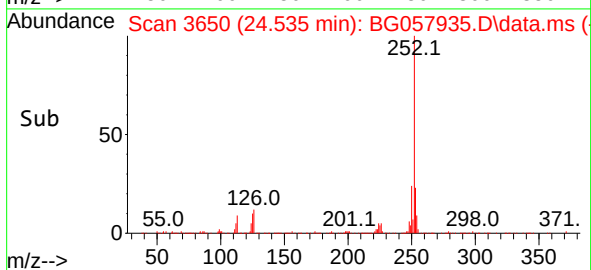
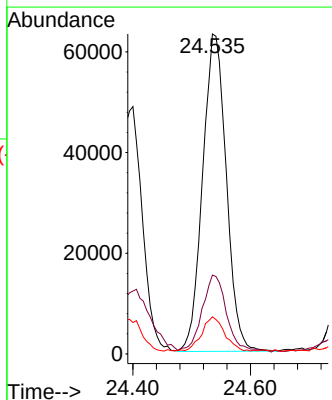
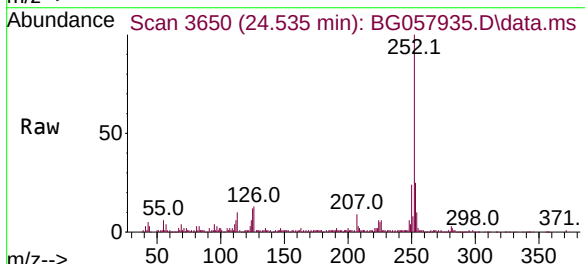
Instrument :  
BNA\_G  
ClientSampleId :  
SB-4-(0-2)

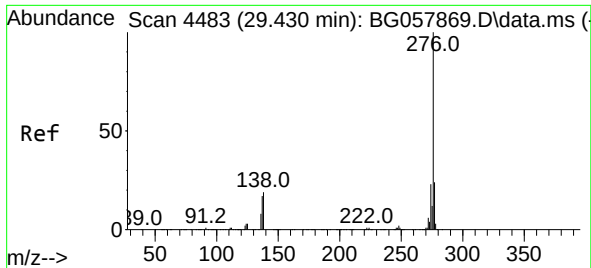
Tgt Ion:252 Resp: 262613  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.1 27.1  
125 9.9 7.8 11.6



#90  
Benzo(a)pyrene  
Concen: 9.214 ng  
RT: 24.535 min Scan# 3650  
Delta R.T. -0.030 min  
Lab File: BG057935.D  
Acq: 1 Jul 2023 2:08

Tgt Ion:252 Resp: 176021  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.7 26.5  
125 11.6 8.0 12.0





#92  
 Benzo(g,h,i)perylene  
 Concen: 7.936 ng  
 RT: 29.388 min Scan# 44  
 Delta R.T. -0.041 min  
 Lab File: BG057935.D  
 Acq: 1 Jul 2023 2:08

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-4-(0-2)

Tgt Ion:276 Resp: 153236  
 Ion Ratio Lower Upper  
 276 100  
 277 25.3 19.4 29.2  
 138 20.2 15.0 22.6

