

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG020723\  
 Data File : BG056574.D  
 Acq On : 7 Feb 2023 19:25  
 Operator : CG/JU  
 Sample : 01460-01  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-2-020623

Quant Time: Feb 08 03:07:19 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG012723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 08 03:02:11 2023  
 Response via : Initial Calibration

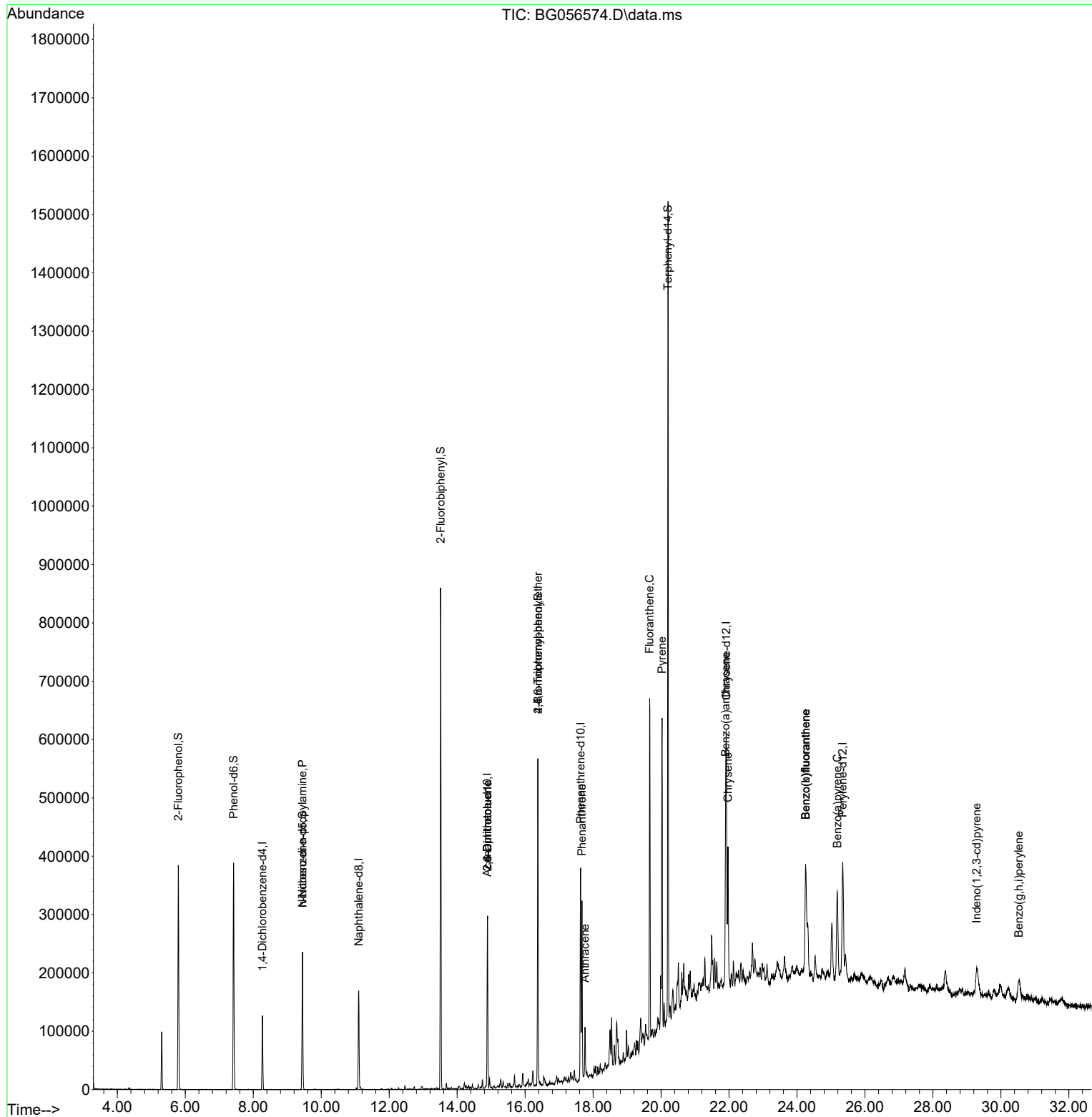
| Compound                      | R.T.   | QIon | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|-------|----------|
| -----                         |        |      |          |           |       |          |
| Internal Standards            |        |      |          |           |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.271  | 152  | 42657    | 20.000    | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.103 | 136  | 158774   | 20.000    | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.887 | 164  | 115991   | 20.000    | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.631 | 188  | 256855   | 20.000    | ng    | 0.00     |
| 76) Chrysene-d12              | 21.920 | 240  | 237540   | 20.000    | ng    | 0.00     |
| 86) Perylene-d12              | 25.345 | 264  | 263392   | 20.000    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| System Monitoring Compounds   |        |      |          |           |       |          |
| 5) 2-Fluorophenol             | 5.792  | 112  | 222777   | 96.072    | ng    | 0.00     |
| 7) Phenol-d6                  | 7.419  | 99   | 303335   | 88.287    | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.446  | 82   | 162213   | 58.015    | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.373 | 330  | 117752   | 76.362    | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.512 | 172  | 487213   | 58.236    | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.204 | 244  | 749135   | 55.391    | ng    | 0.00     |
|                               |        |      |          |           |       |          |
| Target Compounds              |        |      |          |           |       | Qvalue   |
| 9) Benzaldehyde               | 7.419  | 77   | 280      | Below Cal | #     | 1        |
| 19) n-Nitroso-di-n-propyla... | 9.446  | 70   | 19924    | 10.063    | ng    | # 74     |
| 51) 2,6-Dinitrotoluene        | 14.893 | 165  | 15841    | 7.741     | ng    | # 36     |
| 57) 2,4-Dinitrotoluene        | 14.893 | 165  | 15841    | 5.495     | ng    | # 35     |
| 67) 4-Bromophenyl-phenylether | 16.373 | 248  | 9373     | 2.851     | ng    | # 1      |
| 71) Phenanthrene              | 17.672 | 178  | 206531   | 15.363    | ng    | 99       |
| 72) Anthracene                | 17.760 | 178  | 60291    | 4.369     | ng    | 99       |
| 75) Fluoranthene              | 19.664 | 202  | 422104   | 24.878    | ng    | 100      |
| 78) Pyrene                    | 20.028 | 202  | 369066   | 21.846    | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.896 | 228  | 218629   | 13.165    | ng    | 100      |
| 83) Chrysene                  | 21.967 | 228  | 187808   | 12.038    | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.288 | 276  | 111645   | 5.791     | ng    | # 86     |
| 88) Benzo(b)fluoranthene      | 24.252 | 252  | 264986   | 16.209    | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 24.252 | 252  | 264986   | 16.054    | ng    | 99       |
| 90) Benzo(a)pyrene            | 25.186 | 252  | 197967   | 12.293    | ng    | # 98     |
| 92) Benzo(g,h,i)perylene      | 30.527 | 276  | 99723    | 6.386     | ng    | 99       |
| -----                         |        |      |          |           |       |          |

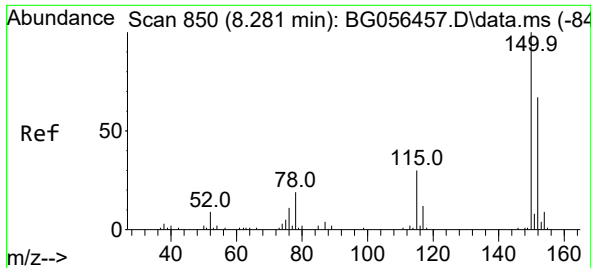
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG020723\  
Data File : BG056574.D  
Acq On : 7 Feb 2023 19:25  
Operator : CG/JU  
Sample : 01460-01  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
OR-2-020623

Quant Time: Feb 08 03:07:19 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG012723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 08 03:02:11 2023  
Response via : Initial Calibration

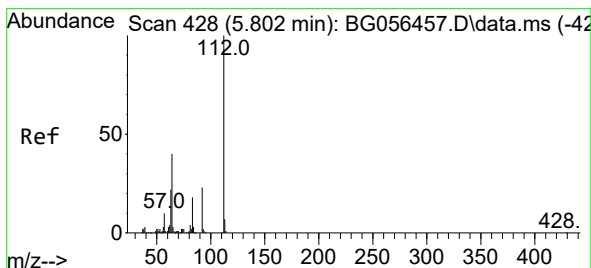
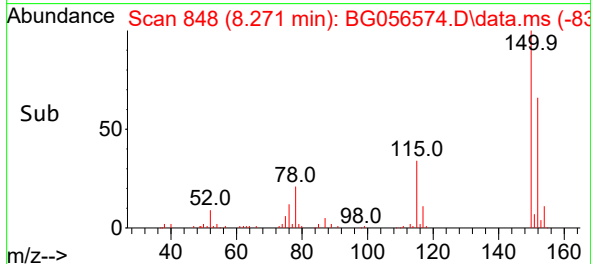
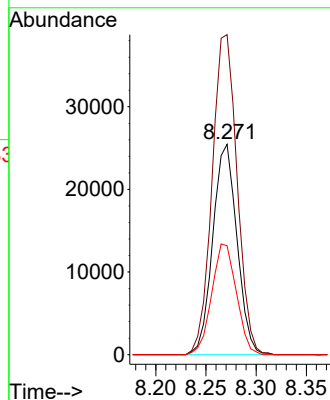
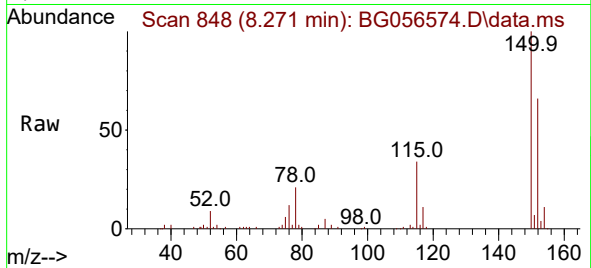




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.271 min Scan# 84  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

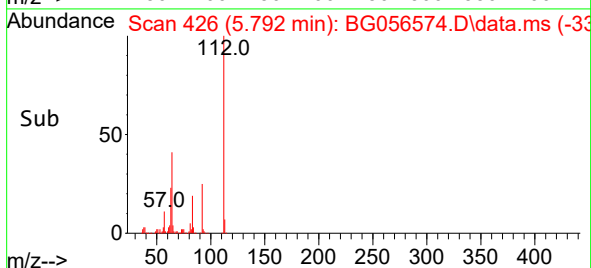
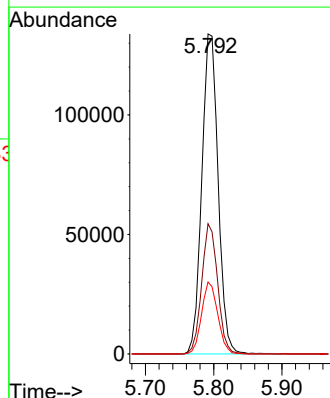
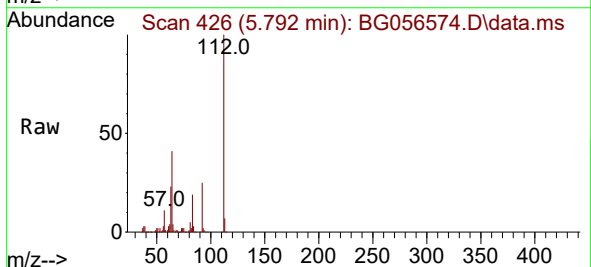
Instrument :  
BNA\_G  
ClientSampleId :  
OR-2-020623

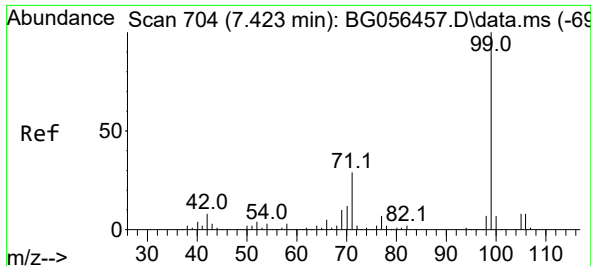
Tgt Ion:152 Resp: 42657  
Ion Ratio Lower Upper  
152 100  
150 152.1 120.2 180.4  
115 51.8 36.3 54.5



#5  
2-Fluorophenol  
Concen: 96.072 ng  
RT: 5.792 min Scan# 426  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Tgt Ion:112 Resp: 222777  
Ion Ratio Lower Upper  
112 100  
64 40.7 31.9 47.9  
63 22.5 17.4 26.0

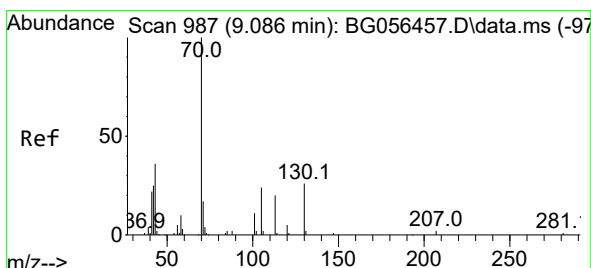
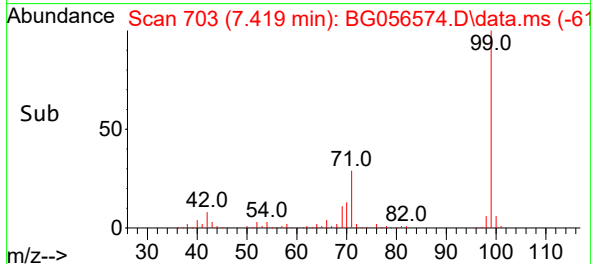
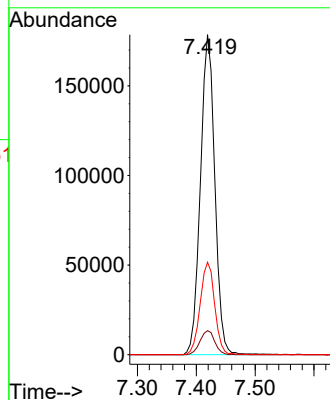
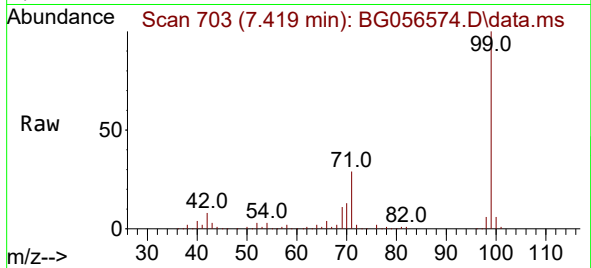




#7  
Phenol-d6  
Concen: 88.287 ng  
RT: 7.419 min Scan# 704  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

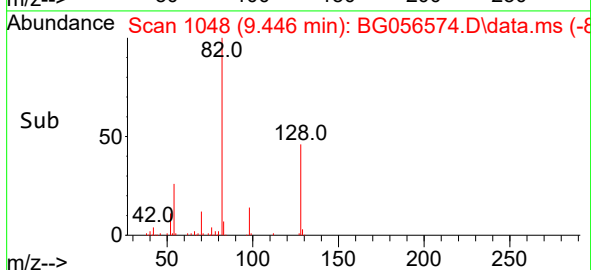
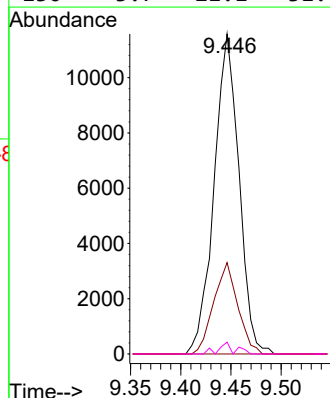
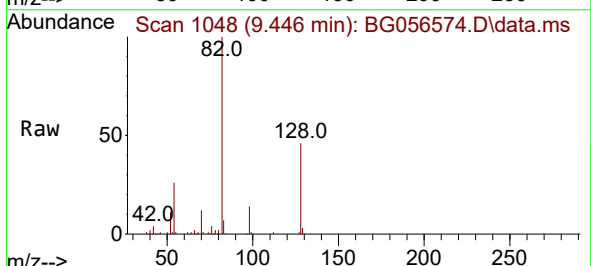
Instrument :  
BNA\_G  
ClientSampleId :  
OR-2-020623

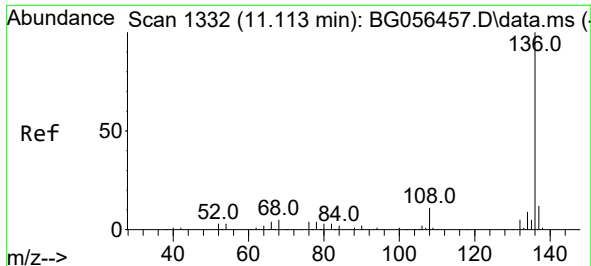
Tgt Ion: 99 Resp: 303335  
Ion Ratio Lower Upper  
99 100  
42 7.5 6.6 10.0  
71 28.9 23.4 35.0



#19  
n-Nitroso-di-n-propylamine  
Concen: 10.063 ng  
RT: 9.446 min Scan# 1048  
Delta R.T. 0.372 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Tgt Ion: 70 Resp: 19924  
Ion Ratio Lower Upper  
70 100  
42 28.5 20.2 30.4  
101 0.0 9.1 13.7#  
130 3.7 21.1 31.7#

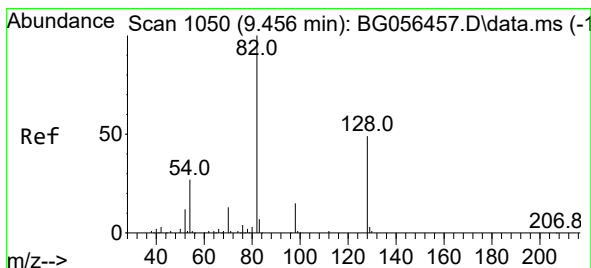
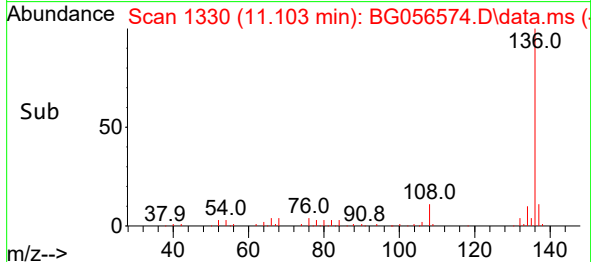
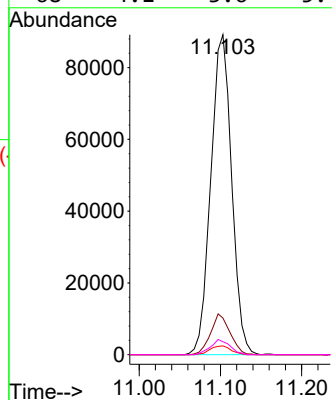
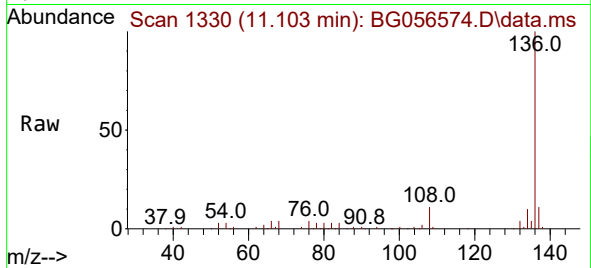




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.103 min Scan# 11  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

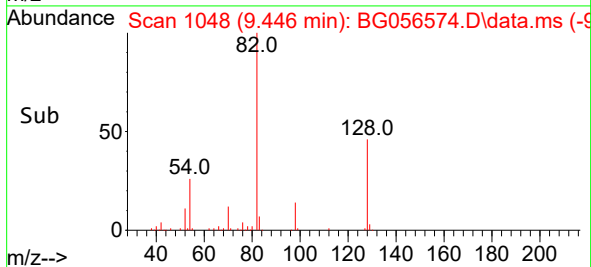
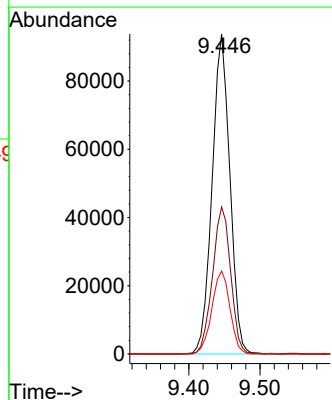
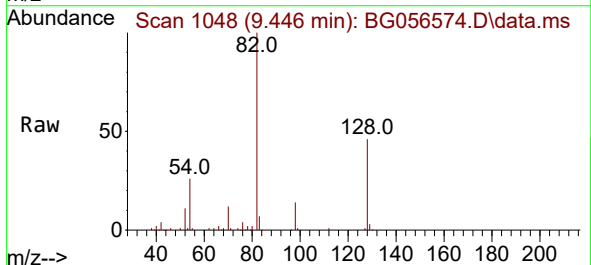
Instrument :  
BNA\_G  
ClientSampleId :  
OR-2-020623

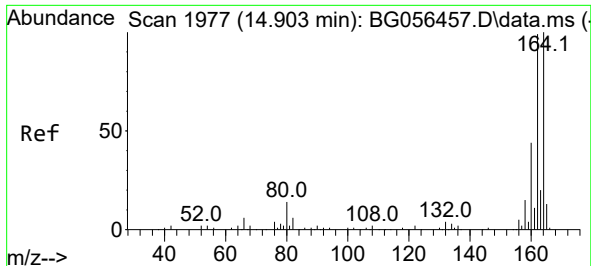
Tgt Ion:136 Resp: 158774  
Ion Ratio Lower Upper  
136 100  
137 11.5 9.4 14.0  
54 2.7 2.2 3.4  
68 4.1 3.6 5.4



#23  
Nitrobenzene-d5  
Concen: 58.015 ng  
RT: 9.446 min Scan# 1048  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Tgt Ion: 82 Resp: 162213  
Ion Ratio Lower Upper  
82 100  
128 46.0 39.4 59.2  
54 25.9 21.4 32.2

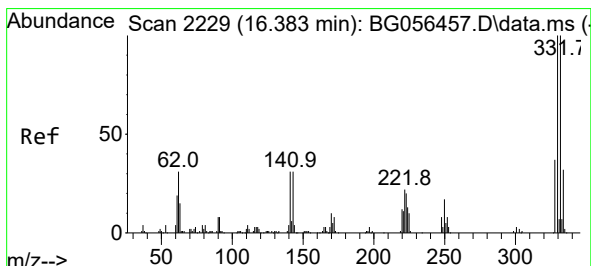
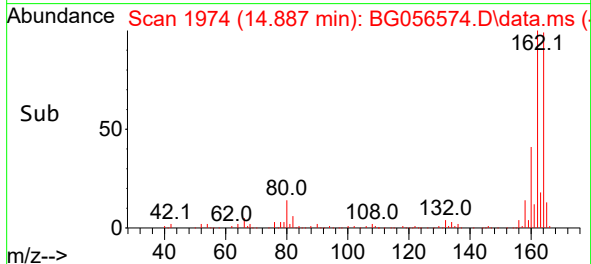
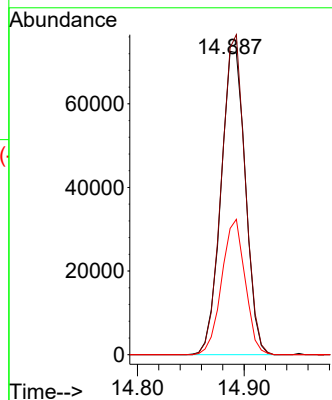
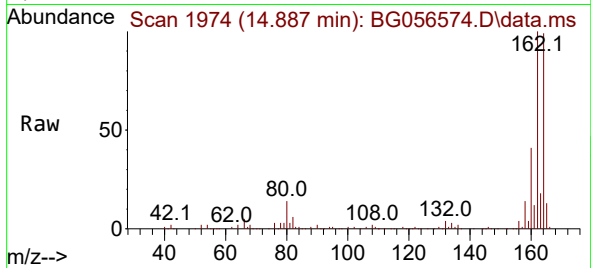




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.887 min Scan# 1977  
Delta R.T. -0.004 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

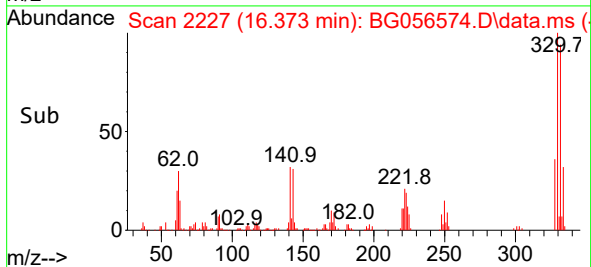
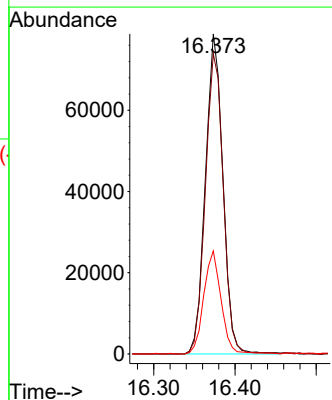
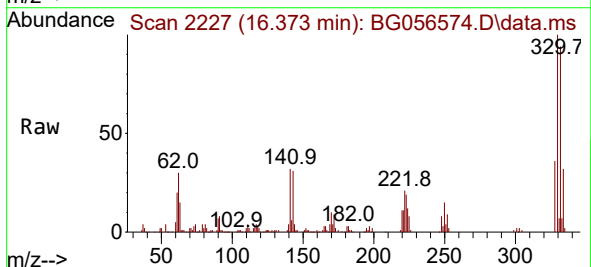
Instrument :  
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OR-2-020623

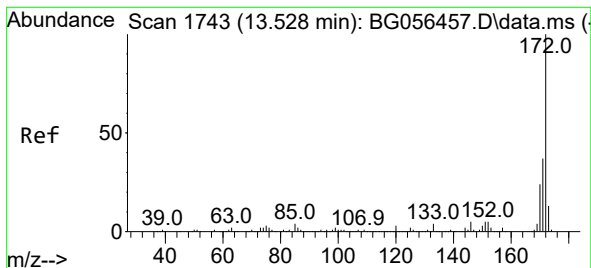
Tgt Ion:164 Resp: 115991  
Ion Ratio Lower Upper  
164 100  
162 101.2 79.6 119.4  
160 41.6 34.9 52.3



#42  
2,4,6-Tribromophenol  
Concen: 76.362 ng  
RT: 16.373 min Scan# 2227  
Delta R.T. -0.004 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Tgt Ion:330 Resp: 117752  
Ion Ratio Lower Upper  
330 100  
332 96.0 79.0 118.6  
141 32.0 24.2 36.4

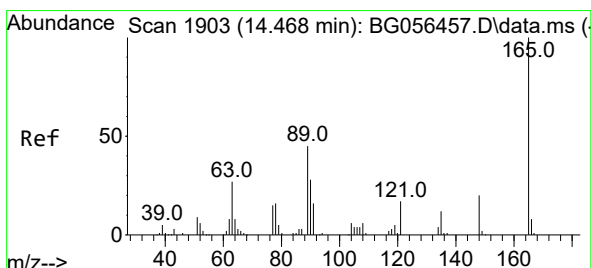
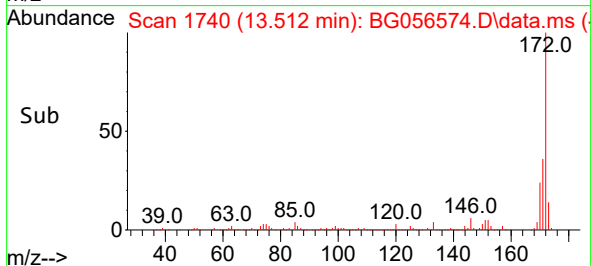
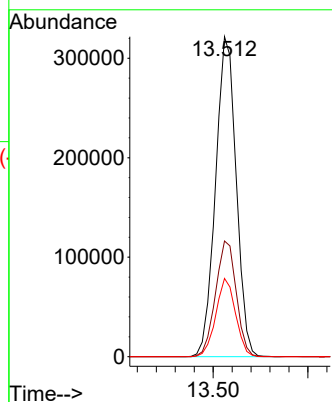
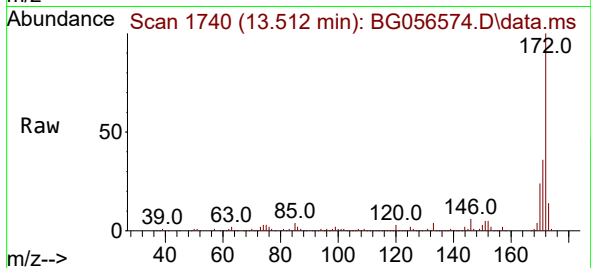




#45  
2-Fluorobiphenyl  
Concen: 58.236 ng  
RT: 13.512 min Scan# 1  
Delta R.T. -0.004 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

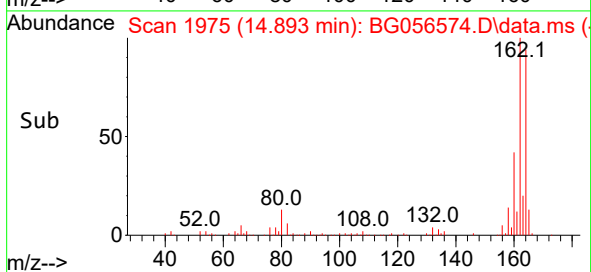
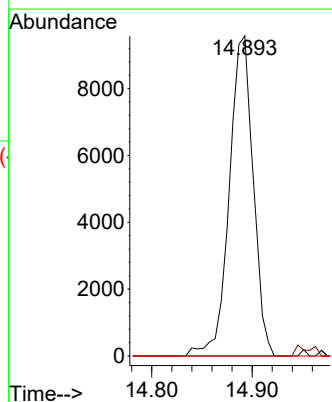
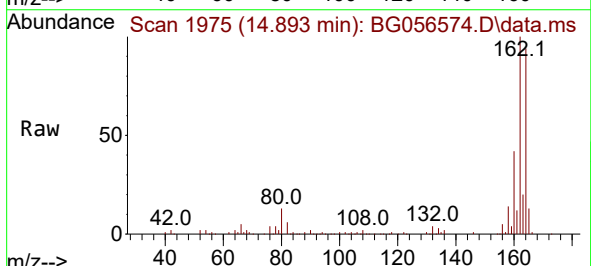
Instrument :  
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ClientSampleId :  
OR-2-020623

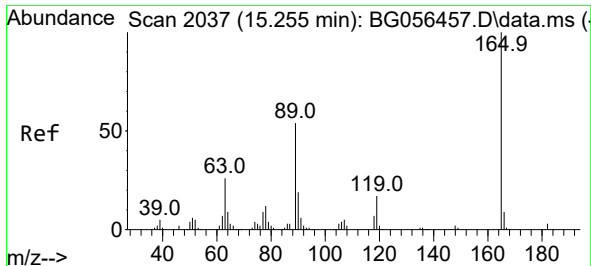
Tgt Ion:172 Resp: 487213  
Ion Ratio Lower Upper  
172 100  
171 36.2 29.5 44.3  
170 24.4 19.2 28.8



#51  
2,6-Dinitrotoluene  
Concen: 7.741 ng  
RT: 14.893 min Scan# 1975  
Delta R.T. 0.430 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Tgt Ion:165 Resp: 15841  
Ion Ratio Lower Upper  
165 100  
63 0.0 26.9 40.3#  
89 0.0 35.6 53.4#





#57

2,4-Dinitrotoluene

Concen: 5.495 ng

RT: 14.893 min Scan# 1975

Delta R.T. -0.357 min

Lab File: BG056574.D

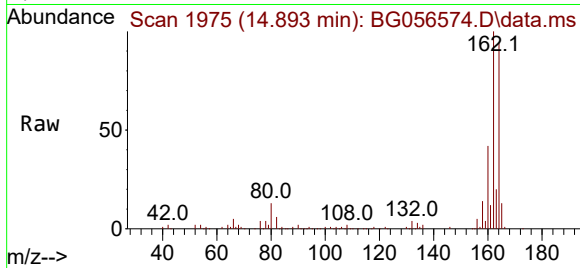
Acq: 7 Feb 2023 19:25

Instrument :

BNA\_G

ClientSampleId :

OR-2-020623



Tgt Ion:165 Resp: 15841

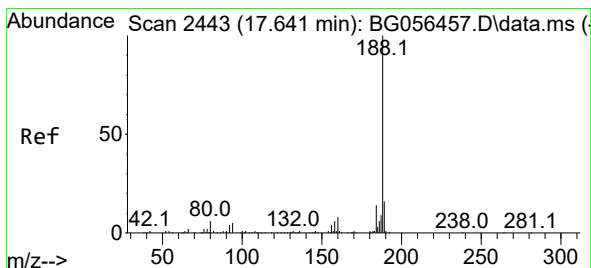
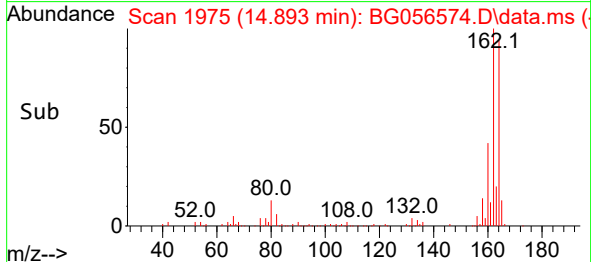
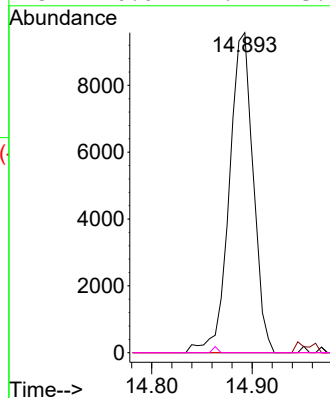
Ion Ratio Lower Upper

165 100

63 0.0 20.6 31.0#

89 0.0 43.1 64.7#

182 0.0 2.4 3.6#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.631 min Scan# 2441

Delta R.T. 0.002 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

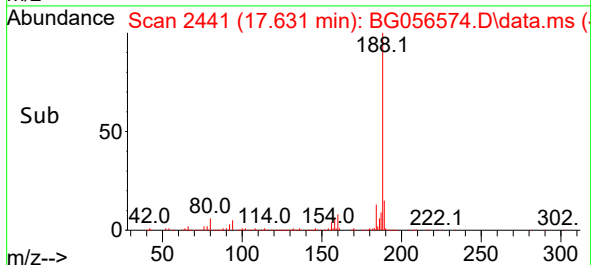
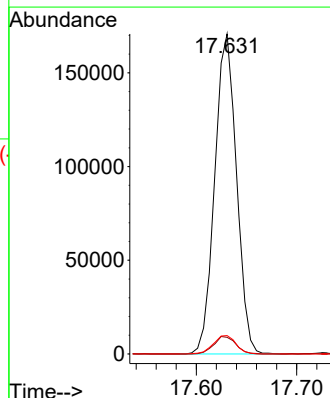
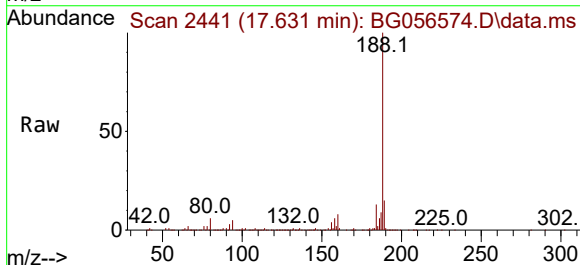
Tgt Ion:188 Resp: 256855

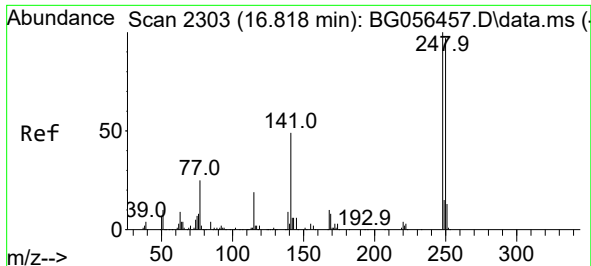
Ion Ratio Lower Upper

188 100

94 5.2 4.1 6.1

80 5.7 5.0 7.4





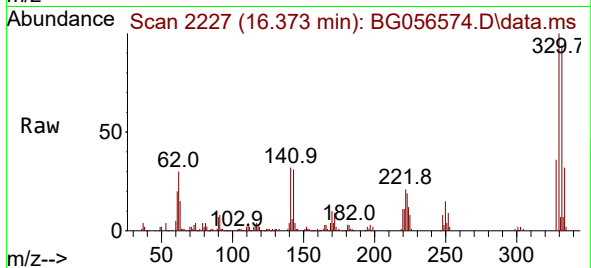
#67  
4-Bromophenyl-phenylether  
Concen: 2.851 ng  
RT: 16.373 min Scan# 211  
Delta R.T. -0.433 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Instrument :

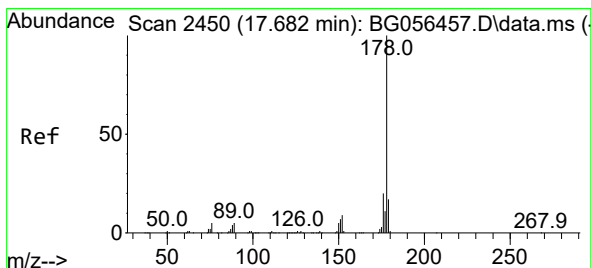
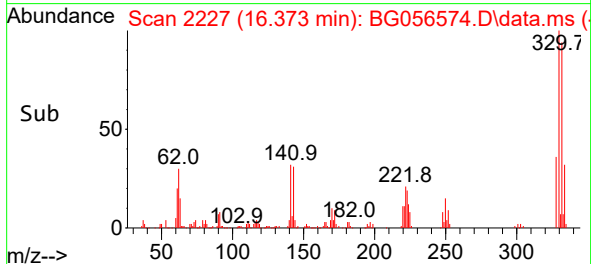
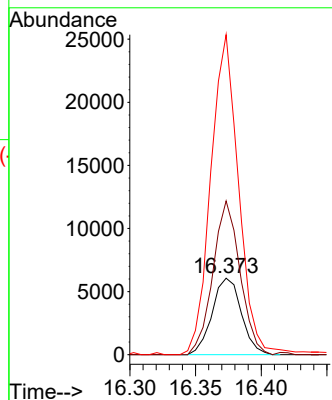
BNA\_G

ClientSampleId :

OR-2-020623

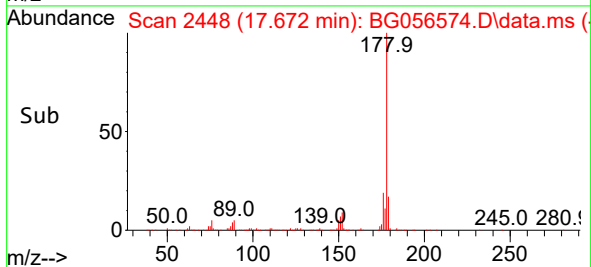
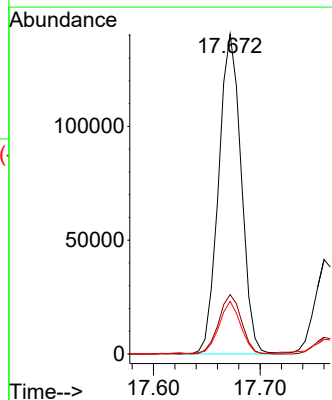
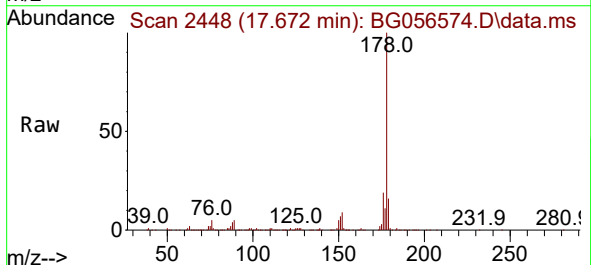


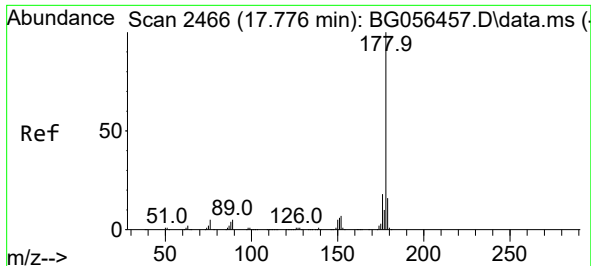
Tgt Ion:248 Resp: 9373  
Ion Ratio Lower Upper  
248 100  
250 201.1 77.6 116.4#  
141 418.3 39.0 58.4#



#71  
Phenanthrene  
Concen: 15.363 ng  
RT: 17.672 min Scan# 2448  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Tgt Ion:178 Resp: 206531  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.6 23.4  
179 16.5 13.3 19.9

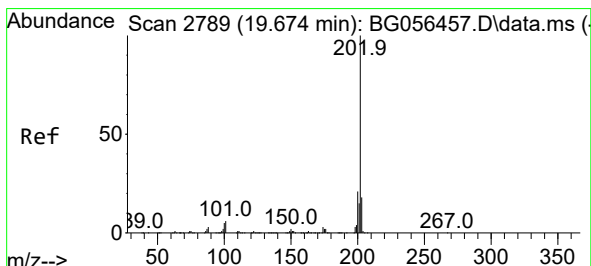
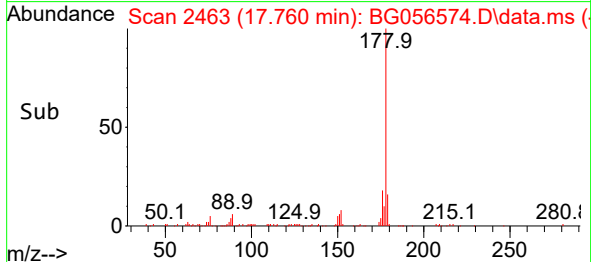
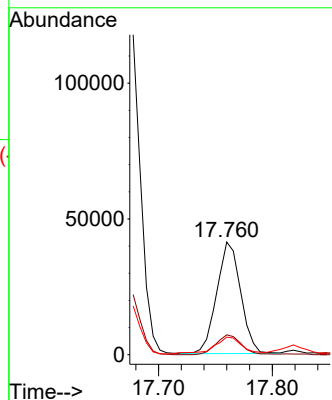
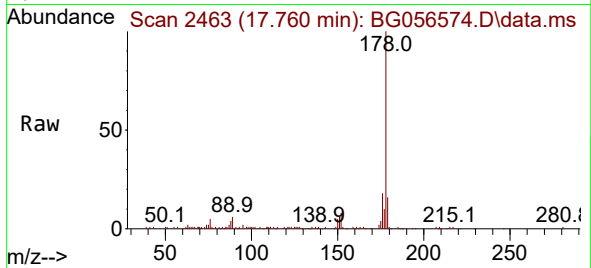




#72  
 Anthracene  
 Concen: 4.369 ng  
 RT: 17.760 min Scan# 2466  
 Delta R.T. -0.004 min  
 Lab File: BG056574.D  
 Acq: 7 Feb 2023 19:25

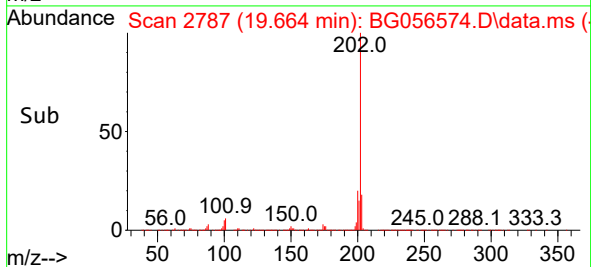
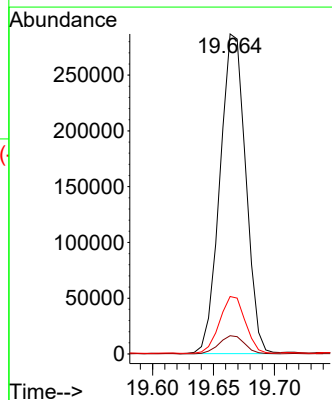
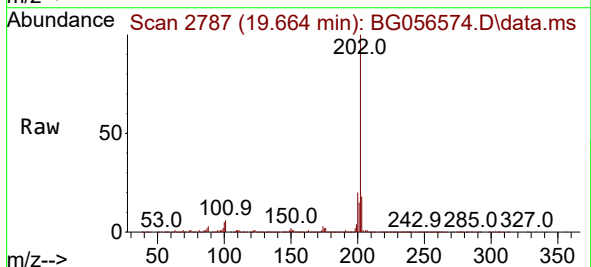
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-2-020623

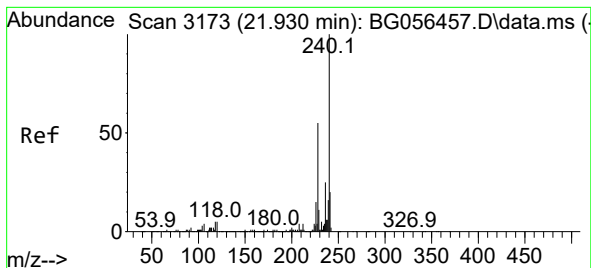
Tgt Ion:178 Resp: 60291  
 Ion Ratio Lower Upper  
 178 100  
 176 17.7 14.5 21.7  
 179 15.6 12.5 18.7



#75  
 Fluoranthene  
 Concen: 24.878 ng  
 RT: 19.664 min Scan# 2787  
 Delta R.T. -0.004 min  
 Lab File: BG056574.D  
 Acq: 7 Feb 2023 19:25

Tgt Ion:202 Resp: 422104  
 Ion Ratio Lower Upper  
 202 100  
 101 5.7 0.0 25.6  
 203 18.0 0.0 38.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.920 min Scan# 3173

Delta R.T. -0.004 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

Instrument :

BNA\_G

ClientSampleId :

OR-2-020623

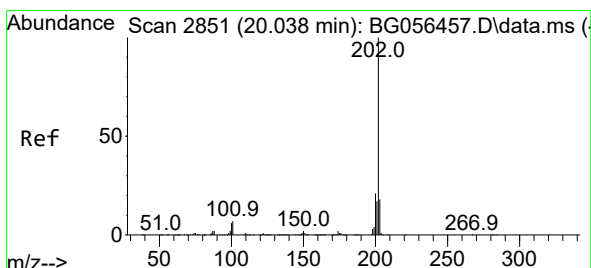
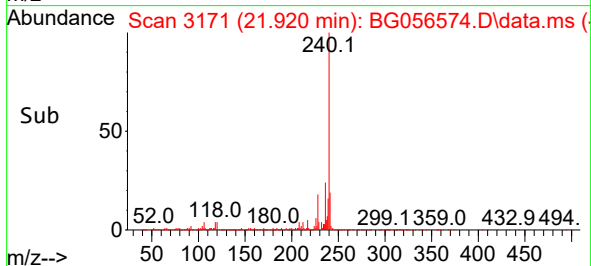
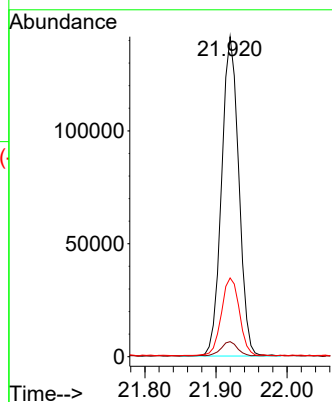
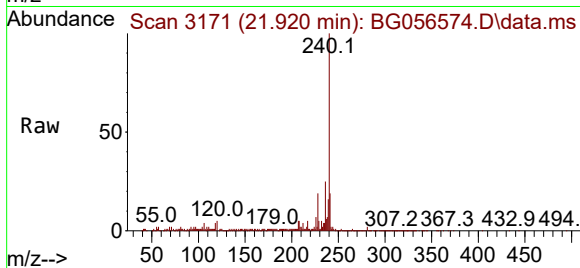
Tgt Ion:240 Resp: 237540

Ion Ratio Lower Upper

240 100

120 4.7 3.8 5.8

236 24.6 20.2 30.2



#78

Pyrene

Concen: 21.846 ng

RT: 20.028 min Scan# 2849

Delta R.T. 0.002 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

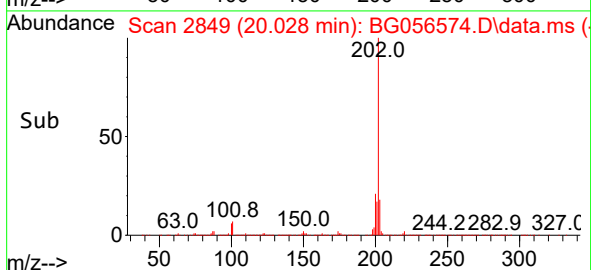
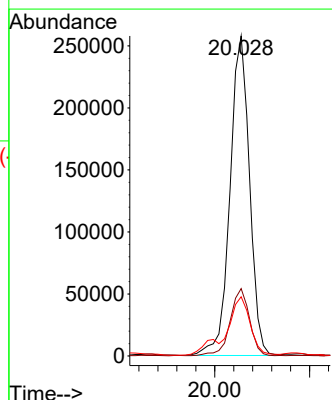
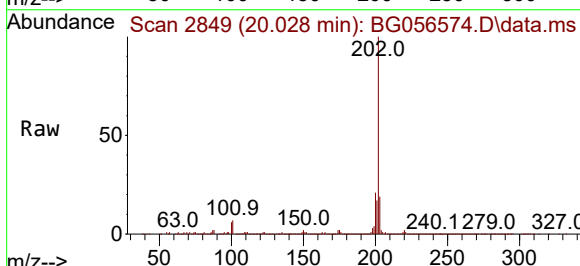
Tgt Ion:202 Resp: 369066

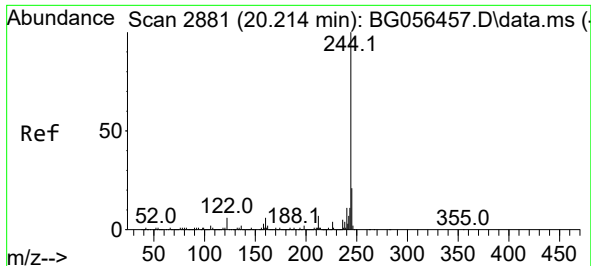
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 18.5 14.4 21.6

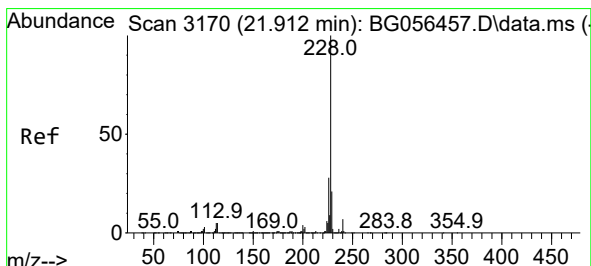
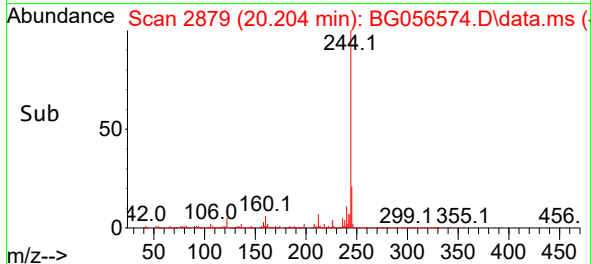
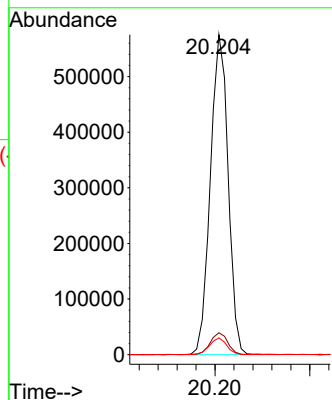
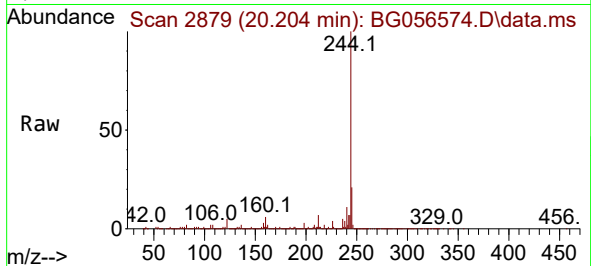




#79  
 Terphenyl-d14  
 Concen: 55.391 ng  
 RT: 20.204 min Scan# 21  
 Delta R.T. -0.004 min  
 Lab File: BG056574.D  
 Acq: 7 Feb 2023 19:25

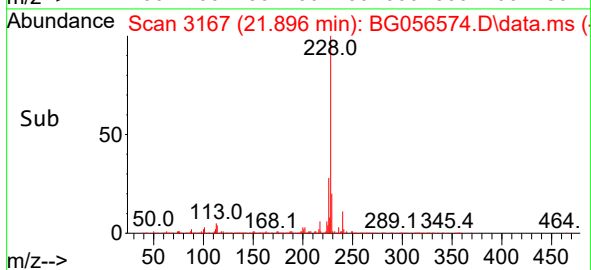
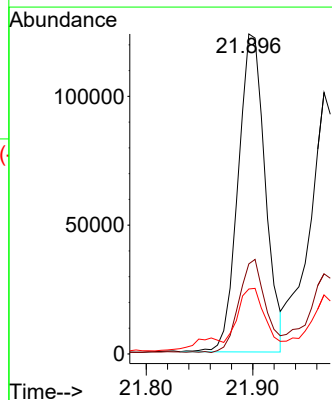
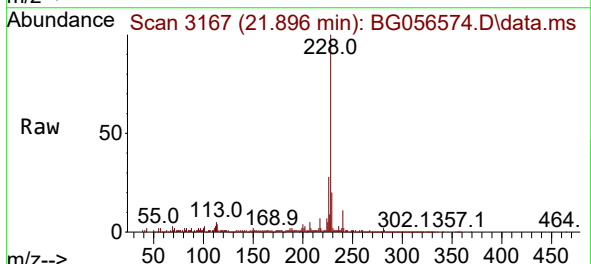
Instrument :  
 BNA\_G  
 ClientSampleId :  
 OR-2-020623

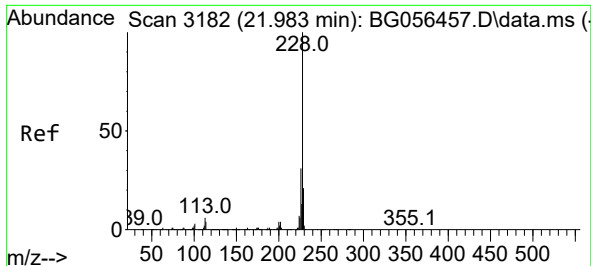
Tgt Ion:244 Resp: 749135  
 Ion Ratio Lower Upper  
 244 100  
 212 6.9 5.5 8.3  
 122 5.2 4.4 6.6



#81  
 Benzo(a)anthracene  
 Concen: 13.165 ng  
 RT: 21.896 min Scan# 3167  
 Delta R.T. -0.004 min  
 Lab File: BG056574.D  
 Acq: 7 Feb 2023 19:25

Tgt Ion:228 Resp: 218629  
 Ion Ratio Lower Upper  
 228 100  
 226 28.2 22.4 33.6  
 229 20.3 16.5 24.7





#83

Chrysene

Concen: 12.038 ng

RT: 21.967 min Scan# 31

Delta R.T. -0.004 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

Instrument :

BNA\_G

ClientSampleId :

OR-2-020623

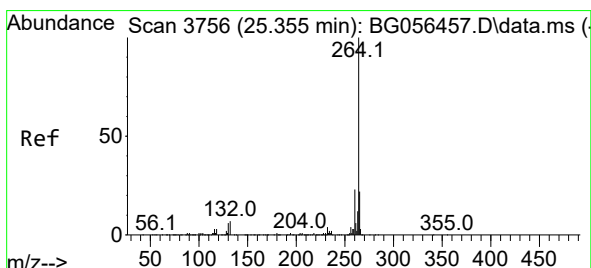
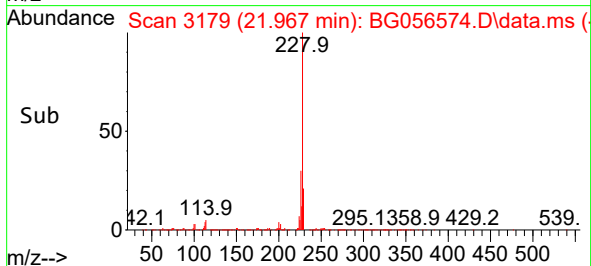
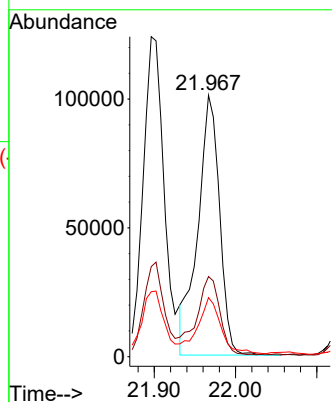
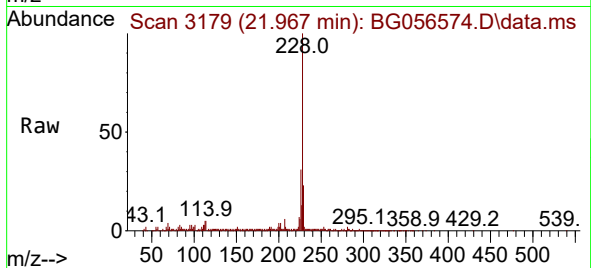
Tgt Ion:228 Resp: 187808

Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.4

229 22.6 16.4 24.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.345 min Scan# 3754

Delta R.T. 0.007 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

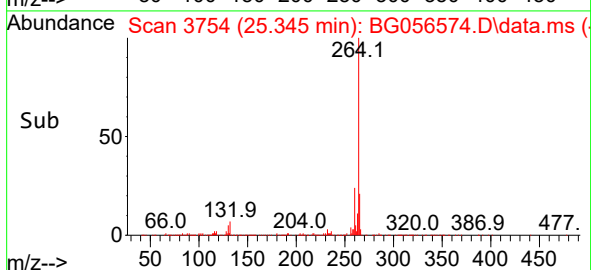
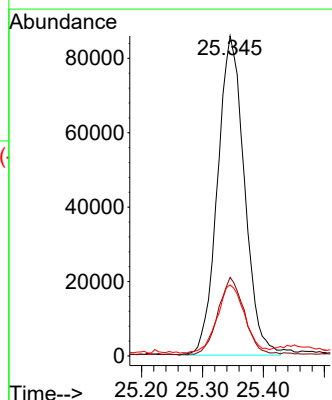
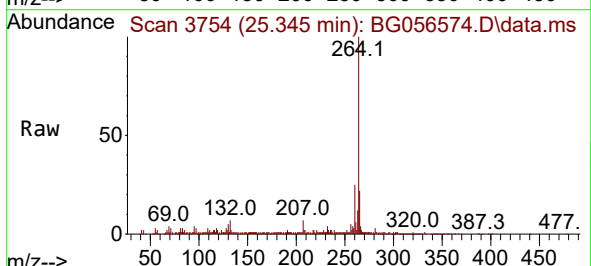
Tgt Ion:264 Resp: 263392

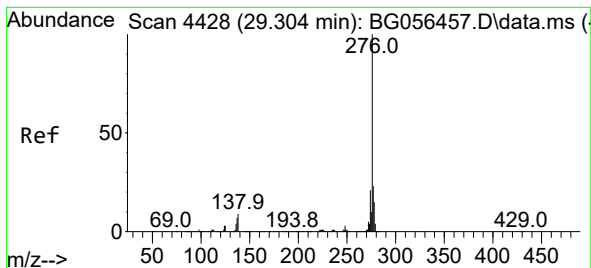
Ion Ratio Lower Upper

264 100

260 24.5 18.2 27.4

265 22.2 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.791 ng

RT: 29.288 min Scan# 4428

Delta R.T. 0.002 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

Instrument :

BNA\_G

ClientSampleId :

OR-2-020623

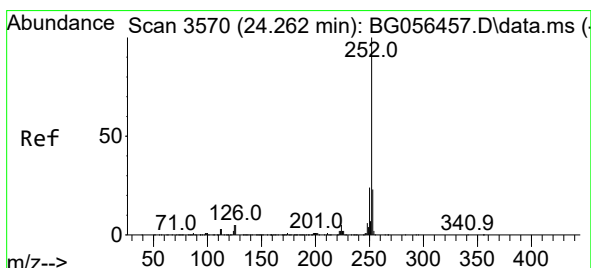
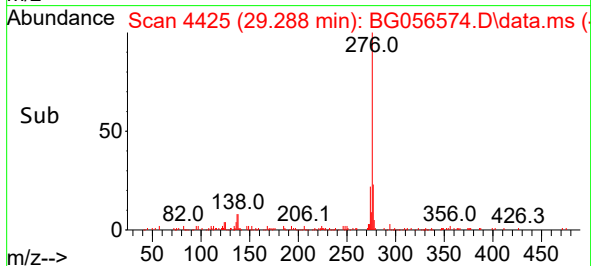
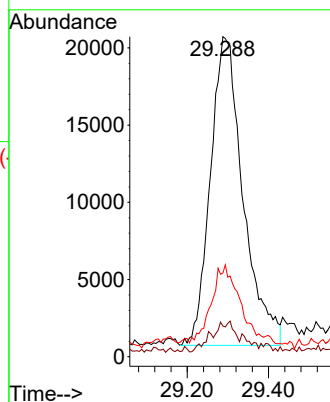
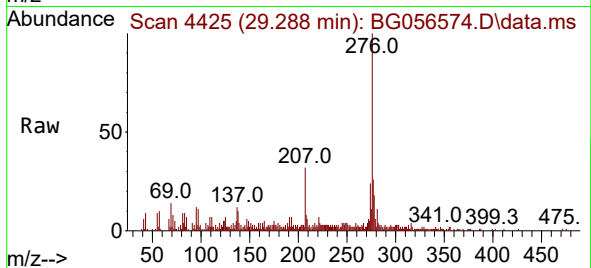
Tgt Ion:276 Resp: 111645

Ion Ratio Lower Upper

276 100

138 1.0 9.4 14.2#

277 21.7 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 16.209 ng

RT: 24.252 min Scan# 3568

Delta R.T. 0.002 min

Lab File: BG056574.D

Acq: 7 Feb 2023 19:25

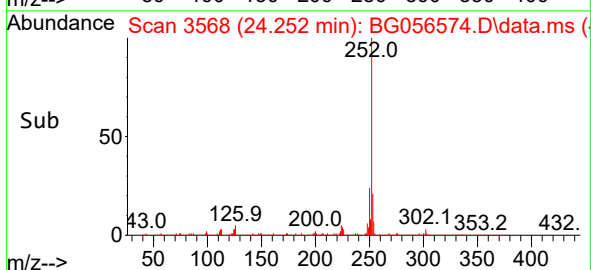
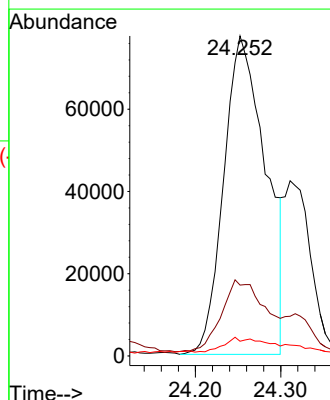
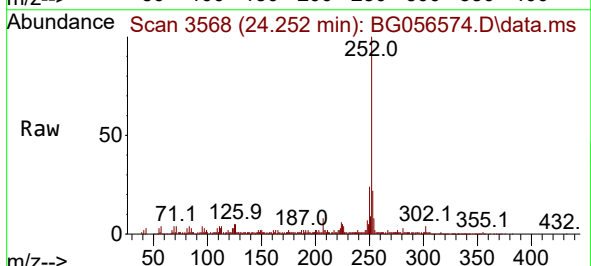
Tgt Ion:252 Resp: 264986

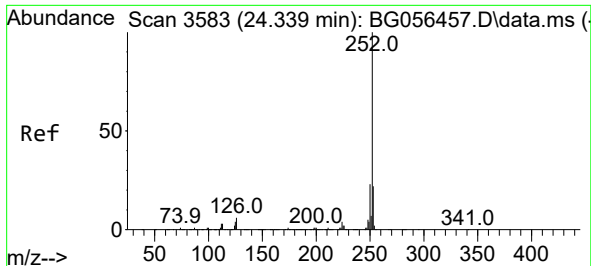
Ion Ratio Lower Upper

252 100

253 22.2 18.1 27.1

125 4.6 3.9 5.9

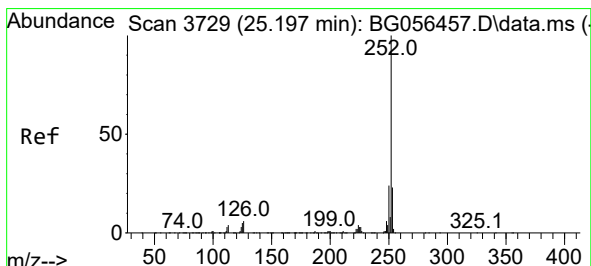
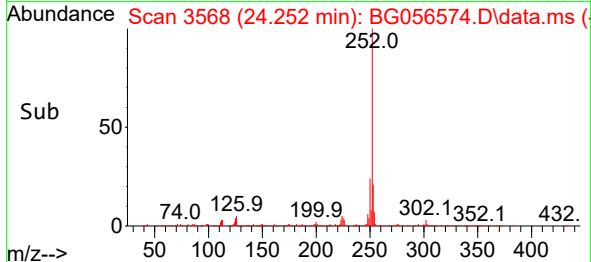
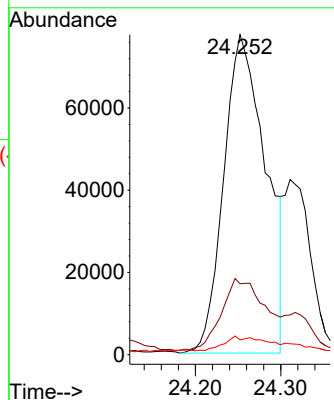
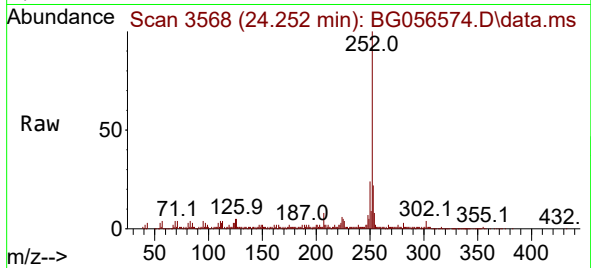




#89  
Benzo(k)fluoranthene  
Concen: 16.054 ng  
RT: 24.252 min Scan# 3583  
Delta R.T. -0.069 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

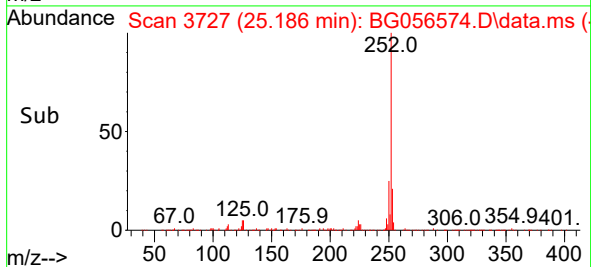
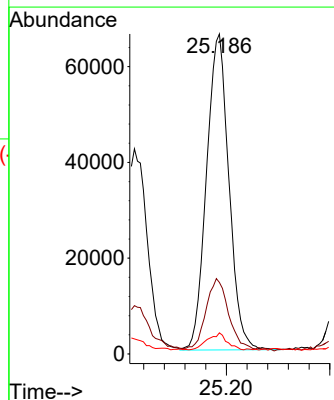
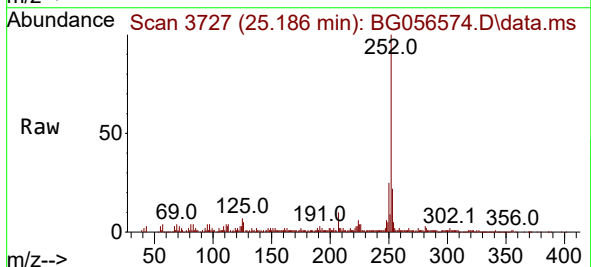
Instrument :  
BNA\_G  
ClientSampleId :  
OR-2-020623

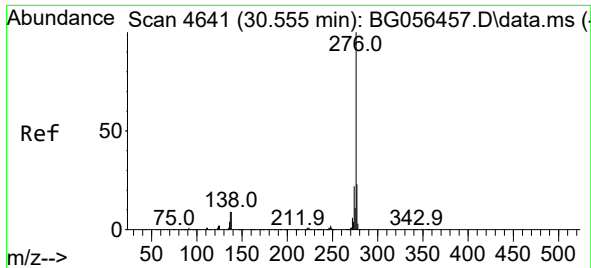
Tgt Ion:252 Resp: 264986  
Ion Ratio Lower Upper  
252 100  
253 22.2 17.5 26.3  
125 4.6 3.4 5.0



#90  
Benzo(a)pyrene  
Concen: 12.293 ng  
RT: 25.186 min Scan# 3727  
Delta R.T. 0.007 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

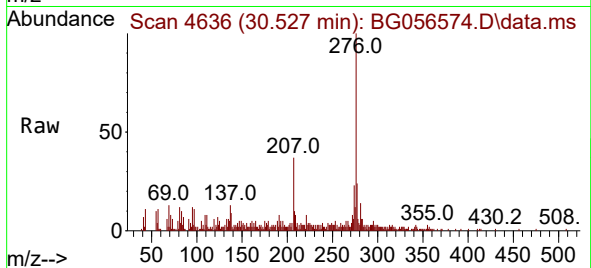
Tgt Ion:252 Resp: 197967  
Ion Ratio Lower Upper  
252 100  
253 22.3 18.4 27.6  
125 6.6 4.1 6.1#





#92  
Benzo(g,h,i)perylene  
Concen: 6.386 ng  
RT: 30.527 min Scan# 4  
Delta R.T. 0.002 min  
Lab File: BG056574.D  
Acq: 7 Feb 2023 19:25

Instrument :  
BNA\_G  
ClientSampleId :  
OR-2-020623



Tgt Ion:276 Resp: 99723  
Ion Ratio Lower Upper  
276 100  
277 23.8 18.5 27.7  
138 8.9 7.4 11.0

