

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG080122\  
 Data File : BG054472.D  
 Acq On : 1 Aug 2022 20:06  
 Operator : CG/JU  
 Sample : N3896-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 RVE-59D

Quant Time: Aug 02 05:46:42 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jul 28 04:30:50 2022  
 Response via : Initial Calibration

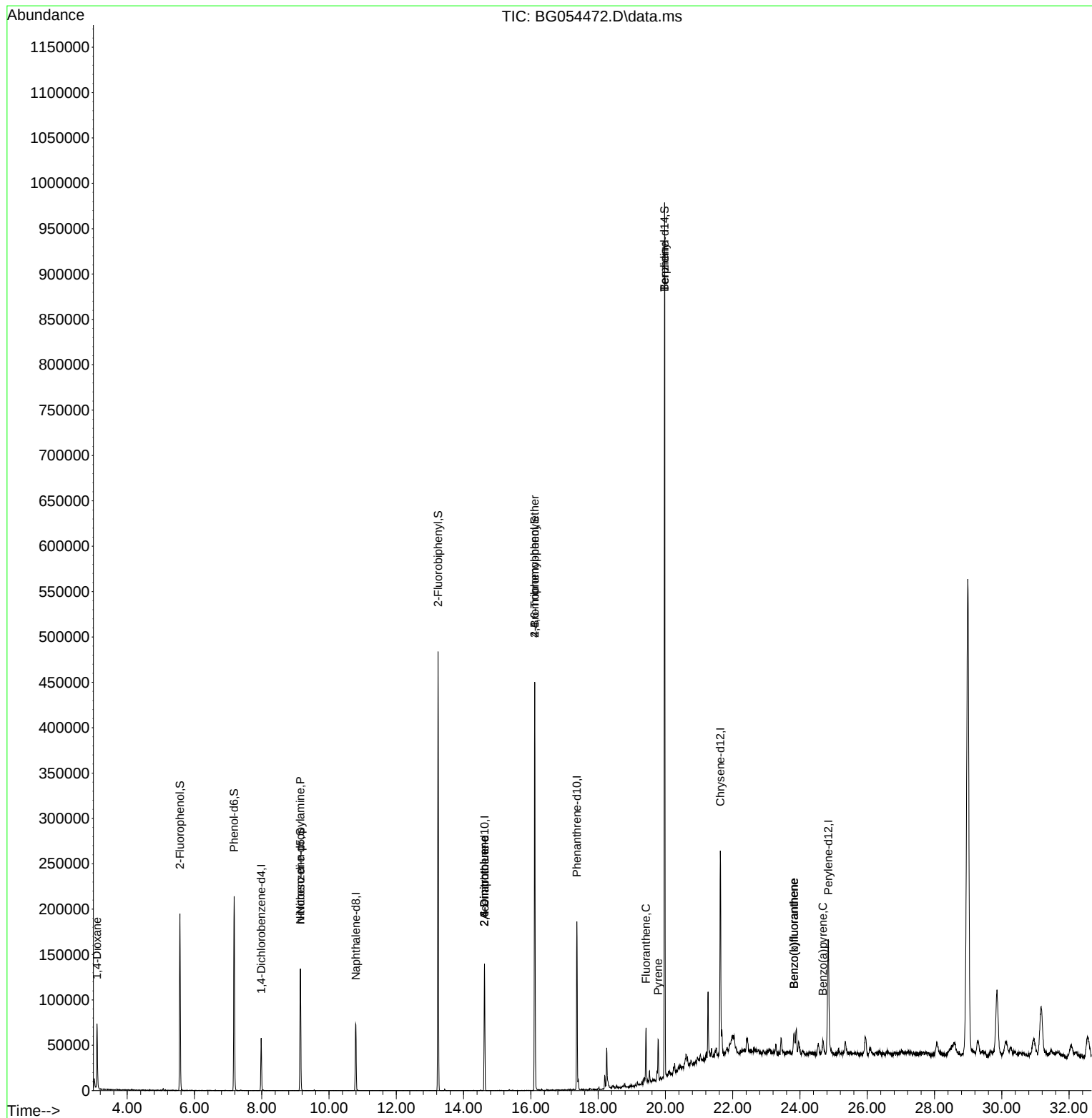
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.983  | 152  | 17810    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.797 | 136  | 69816    | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.622 | 164  | 55842    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.366 | 188  | 136078   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.631 | 240  | 152101   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12              | 24.839 | 264  | 160796   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.568  | 112  | 86582    | 101.501 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.178  | 99   | 123208   | 105.410 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.146  | 82   | 83576    | 65.190  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.114 | 330  | 119616   | 102.020 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.241 | 172  | 270691   | 68.383  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.974 | 244  | 554567   | 72.330  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.100  | 88   | 873      | 2.572   | ng    | # 1      |
| 19) n-Nitroso-di-n-propyla... | 9.146  | 70   | 11850    | 15.182  | ng    | # 83     |
| 51) 2,6-Dinitrotoluene        | 14.616 | 165  | 7728     | 8.078   | ng    | # 16     |
| 57) 2,4-Dinitrotoluene        | 14.616 | 165  | 7728     | 5.635   | ng    | # 21     |
| 67) 4-Bromophenyl-phenylether | 16.114 | 248  | 7267     | 3.802   | ng    | # 1      |
| 75) Fluoranthene              | 19.422 | 202  | 37927    | 4.106   | ng    | 93       |
| 77) Benzidine                 | 19.974 | 184  | 7316     | 2.656   | ng    | # 92     |
| 78) Pyrene                    | 19.781 | 202  | 32992    | 3.780   | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 23.823 | 252  | 29529    | 3.105   | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 23.823 | 252  | 29529    | 3.120   | ng    | 97       |
| 90) Benzo(a)pyrene            | 24.681 | 252  | 17141    | 2.111   | ng    | # 91     |
| -----                         |        |      |          |         |       |          |

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

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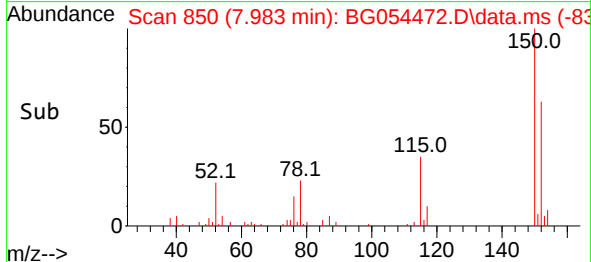
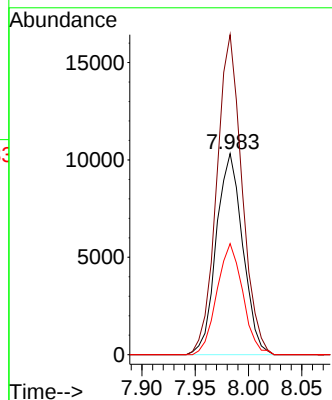
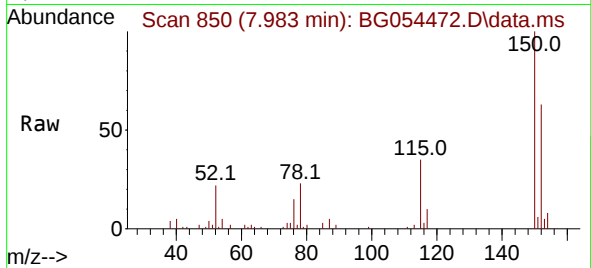




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.983 min Scan# 81  
 Delta R.T. -0.005 min  
 Lab File: BG054472.D  
 Acq: 1 Aug 2022 20:06

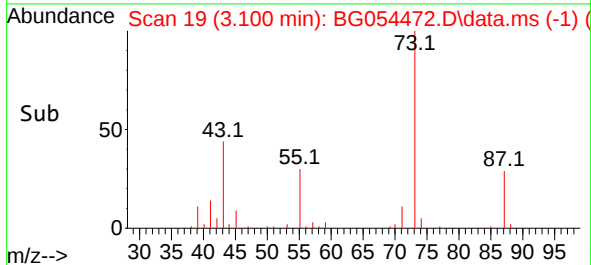
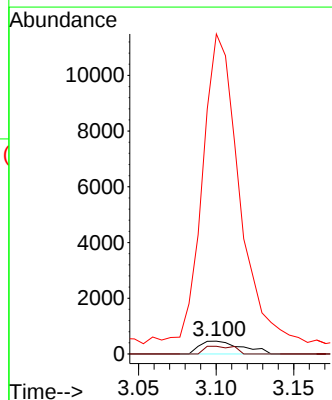
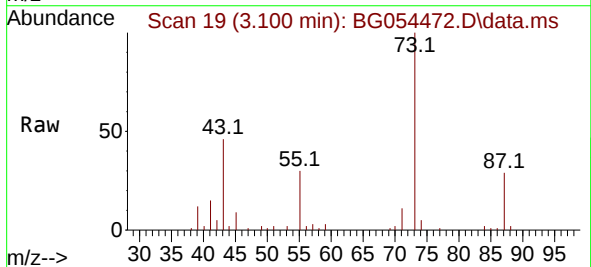
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RVE-59D

Tgt Ion:152 Resp: 17810  
 Ion Ratio Lower Upper  
 152 100  
 150 159.1 131.6 197.4  
 115 55.2 50.9 76.3



#2  
 1,4-Dioxane  
 Concen: 2.572 ng  
 RT: 3.100 min Scan# 19  
 Delta R.T. -0.317 min  
 Lab File: BG054472.D  
 Acq: 1 Aug 2022 20:06

Tgt Ion: 88 Resp: 873  
 Ion Ratio Lower Upper  
 88 100  
 58 42.0 59.2 88.8#  
 43 2190.7 24.3 36.5#

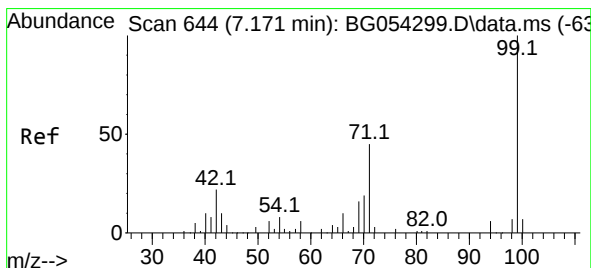
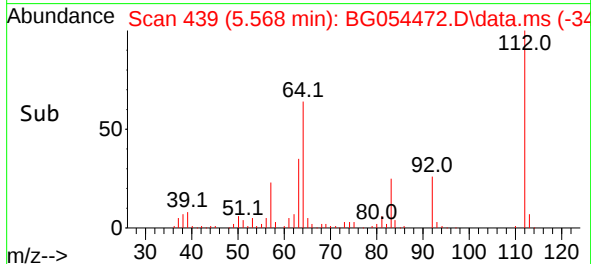
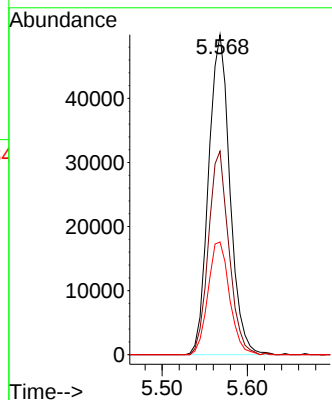
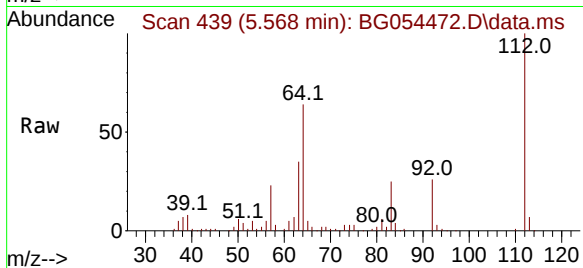




#5  
2-Fluorophenol  
Concen: 101.501 ng  
RT: 5.568 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

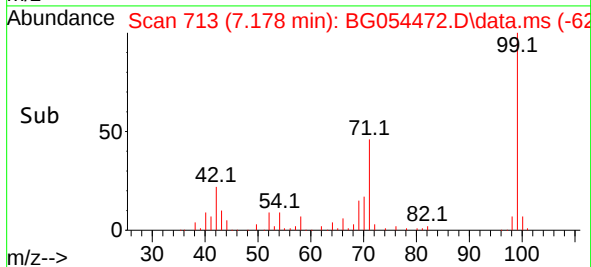
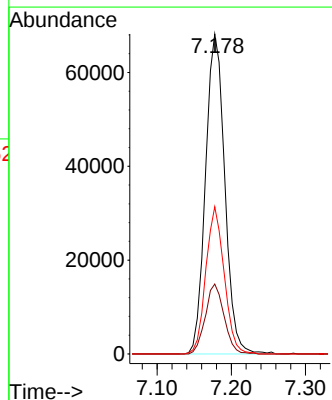
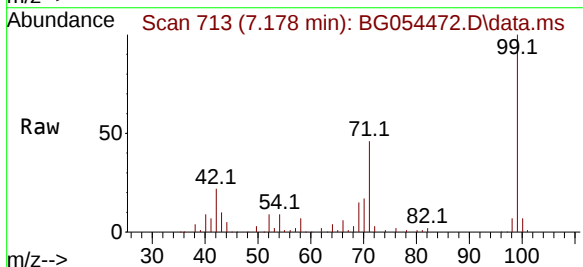
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D

Tgt Ion:112 Resp: 86582  
Ion Ratio Lower Upper  
112 100  
64 63.6 55.1 82.7  
63 35.2 30.4 45.6



#7  
Phenol-d6  
Concen: 105.410 ng  
RT: 7.178 min Scan# 713  
Delta R.T. 0.006 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

Tgt Ion: 99 Resp: 123208  
Ion Ratio Lower Upper  
99 100  
42 21.8 17.0 25.6  
71 46.0 33.8 50.8

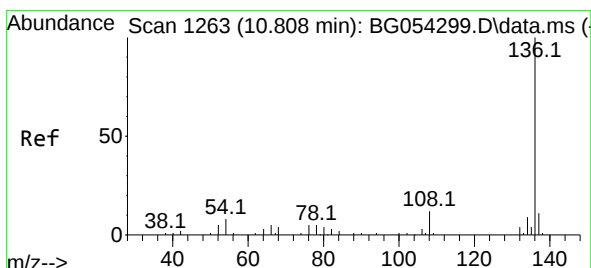
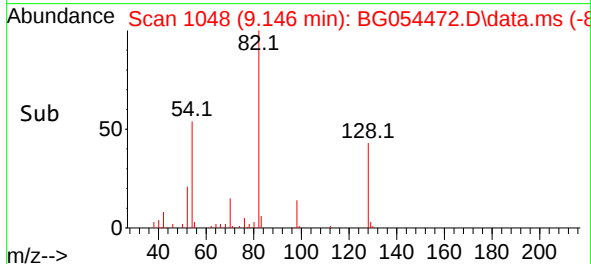
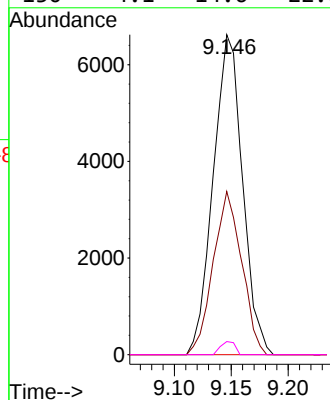
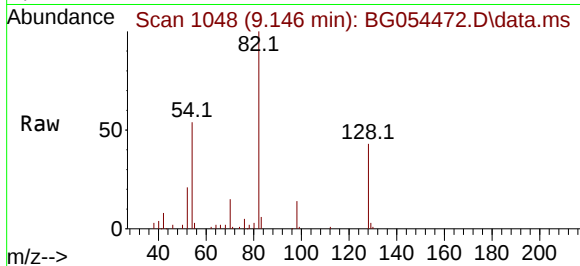




#19  
n-Nitroso-di-n-propylamine  
Concen: 15.182 ng  
RT: 9.146 min Scan# 1048  
Delta R.T. 0.353 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

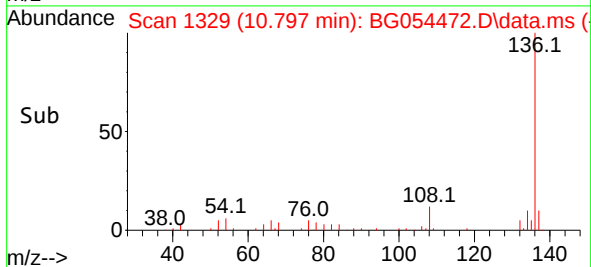
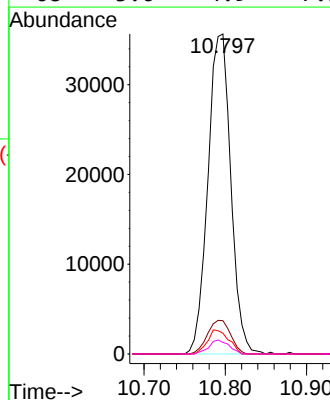
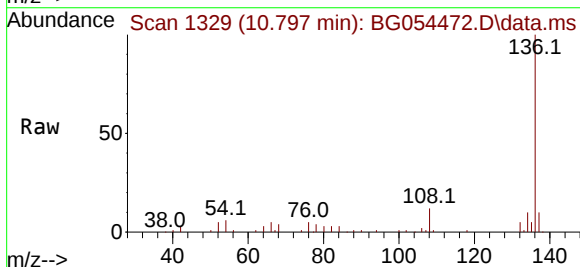
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 70    | Resp: | 11850 |
| Ion      | Ratio | Lower | Upper |
| 70       | 100   |       |       |
| 42       | 51.0  | 47.3  | 70.9  |
| 101      | 0.0   | 7.0   | 10.4# |
| 130      | 4.1   | 14.6  | 22.0# |



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.797 min Scan# 1329  
Delta R.T. 0.000 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 69816 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 10.4  | 8.5   | 12.7  |
| 54       | 6.5   | 7.4   | 11.2# |
| 68       | 3.6   | 4.9   | 7.3#  |

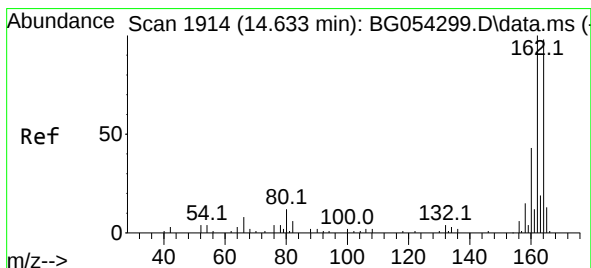
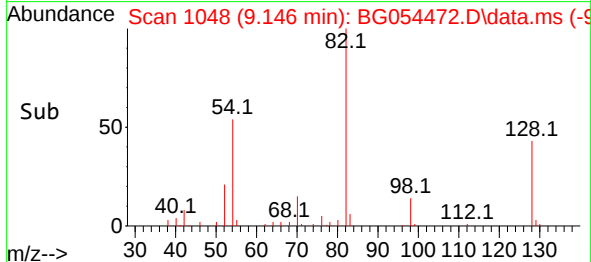
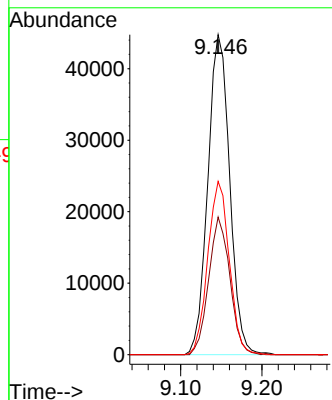
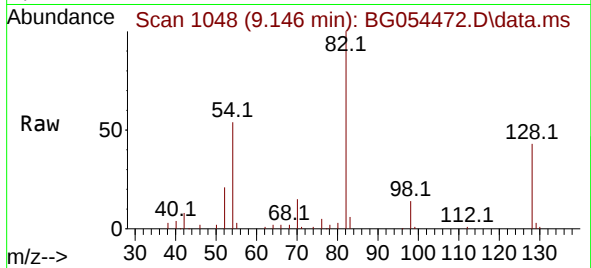




#23  
 Nitrobenzene-d5  
 Concen: 65.190 ng  
 RT: 9.146 min Scan# 1048  
 Delta R.T. -0.006 min  
 Lab File: BG054472.D  
 Acq: 1 Aug 2022 20:06

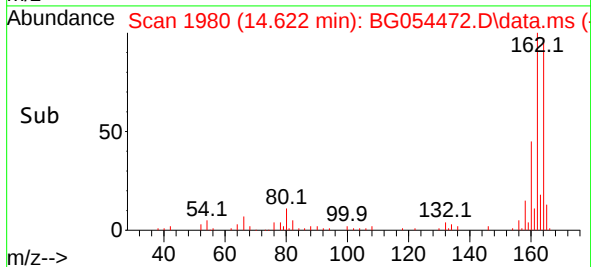
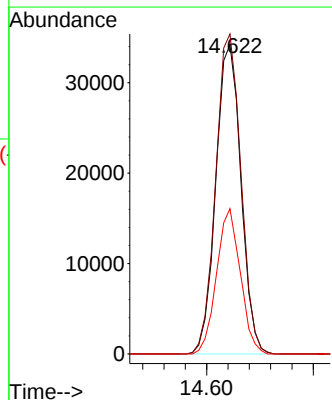
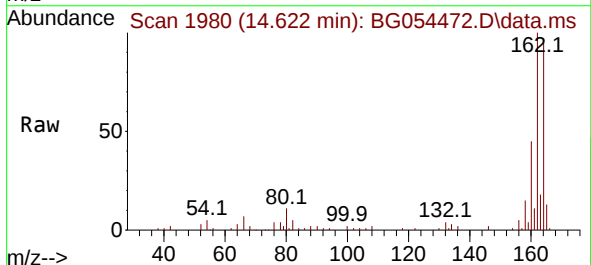
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RVE-59D

Tgt Ion: 82 Resp: 83576  
 Ion Ratio Lower Upper  
 82 100  
 128 43.0 27.9 41.9#  
 54 54.1 41.2 61.8



#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 14.622 min Scan# 1980  
 Delta R.T. 0.000 min  
 Lab File: BG054472.D  
 Acq: 1 Aug 2022 20:06

Tgt Ion:164 Resp: 55842  
 Ion Ratio Lower Upper  
 164 100  
 162 103.4 82.3 123.5  
 160 47.0 34.2 51.2





#42

2,4,6-Tribromophenol

Concen: 102.020 ng

RT: 16.114 min Scan# 21

Delta R.T. 0.000 min

Lab File: BG054472.D

Acq: 1 Aug 2022 20:06

Instrument :

BNA\_G

ClientSampleId :

RVE-59D

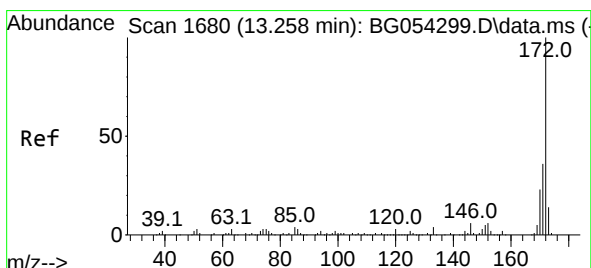
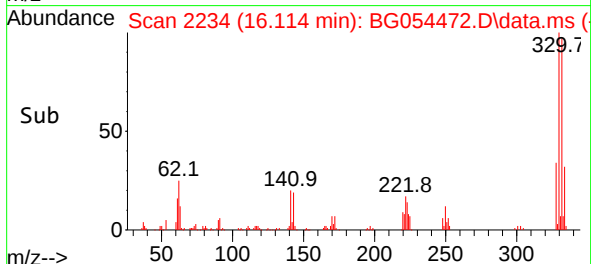
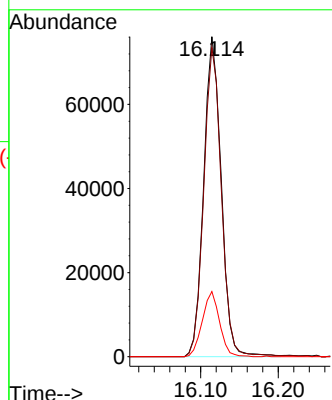
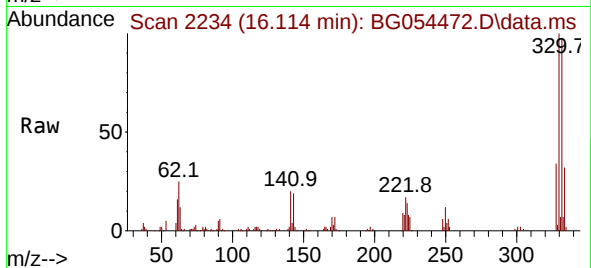
Tgt Ion:330 Resp: 119616

Ion Ratio Lower Upper

330 100

332 96.9 76.0 114.0

141 20.0 27.1 40.7#



#45

2-Fluorobiphenyl

Concen: 68.383 ng

RT: 13.241 min Scan# 1745

Delta R.T. -0.006 min

Lab File: BG054472.D

Acq: 1 Aug 2022 20:06

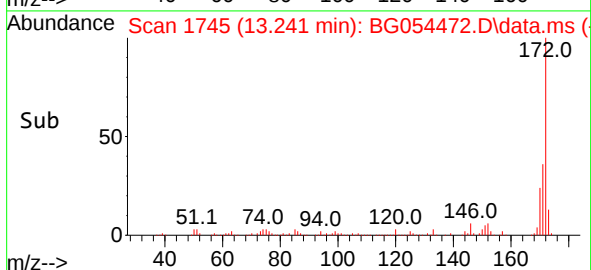
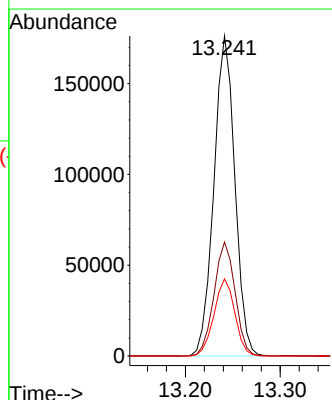
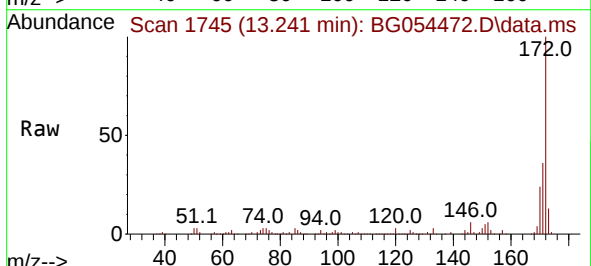
Tgt Ion:172 Resp: 270691

Ion Ratio Lower Upper

172 100

171 35.6 28.5 42.7

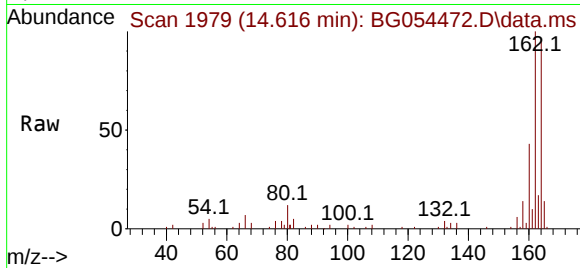
170 24.1 18.9 28.3



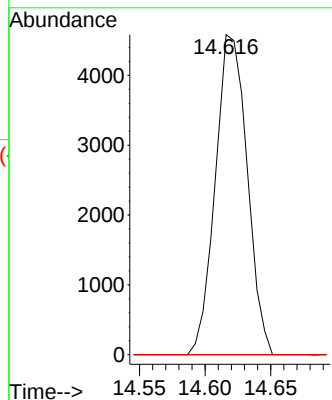
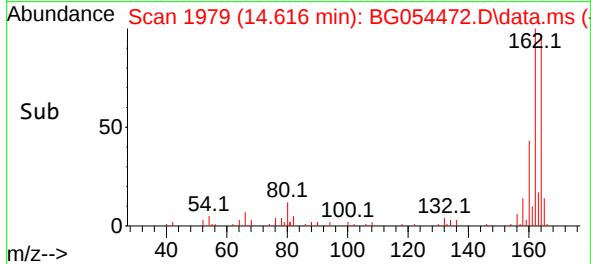


#51  
2,6-Dinitrotoluene  
Concen: 8.078 ng  
RT: 14.616 min Scan# 1979  
Delta R.T. 0.417 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

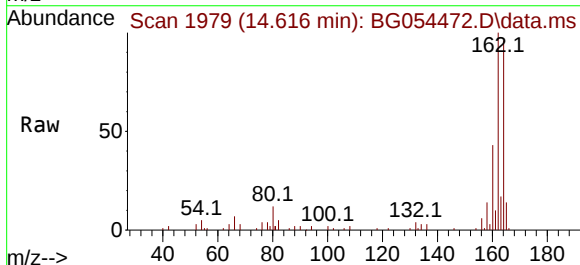
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D



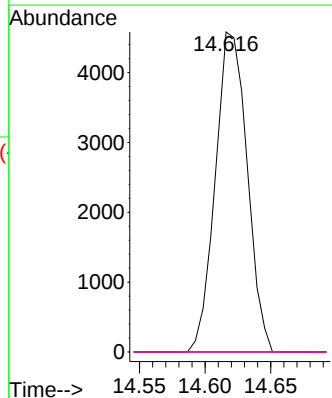
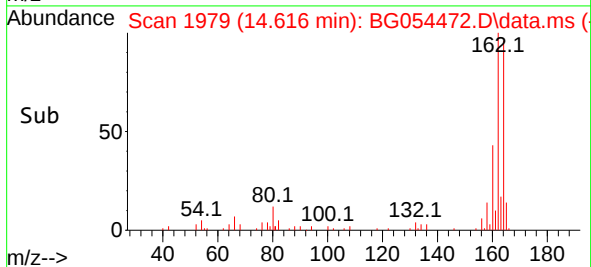
Tgt Ion:165 Resp: 7728  
Ion Ratio Lower Upper  
165 100  
63 0.0 54.1 81.1#  
89 0.0 54.8 82.2#

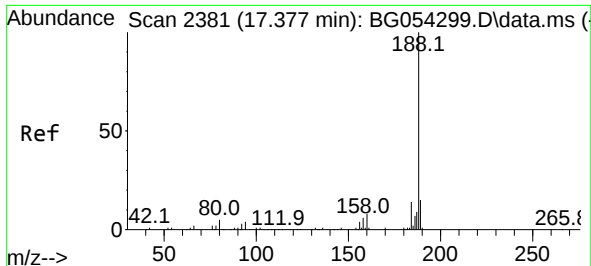


#57  
2,4-Dinitrotoluene  
Concen: 5.635 ng  
RT: 14.616 min Scan# 1979  
Delta R.T. -0.376 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06



Tgt Ion:165 Resp: 7728  
Ion Ratio Lower Upper  
165 100  
63 0.0 34.6 52.0#  
89 0.0 60.3 90.5#  
182 0.0 2.2 3.4#

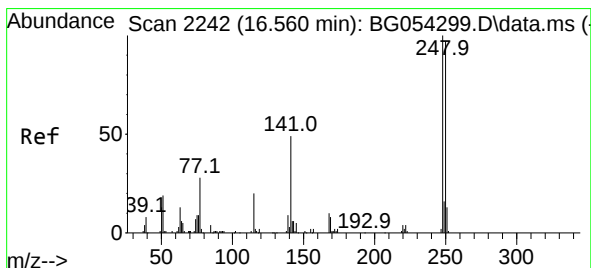
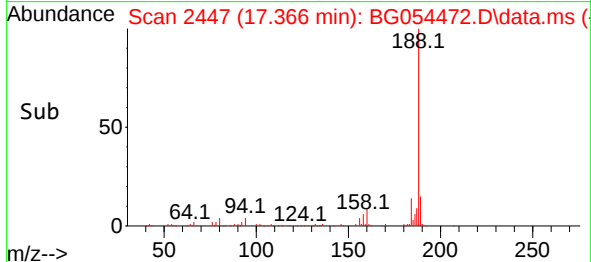
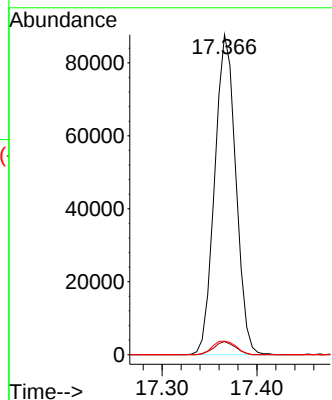
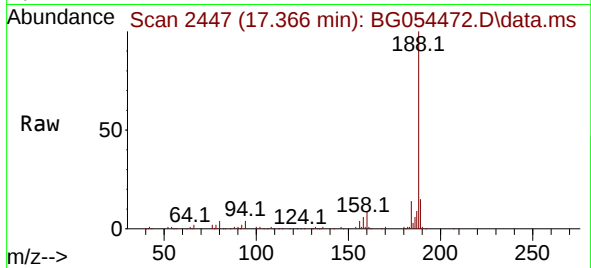




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.366 min Scan# 2447  
Delta R.T. -0.006 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

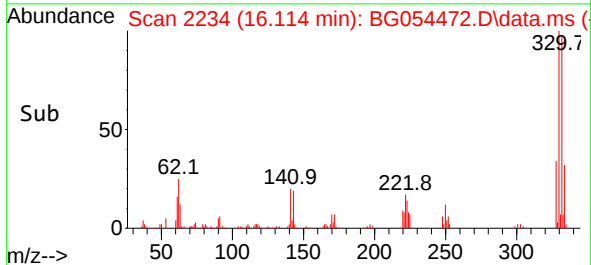
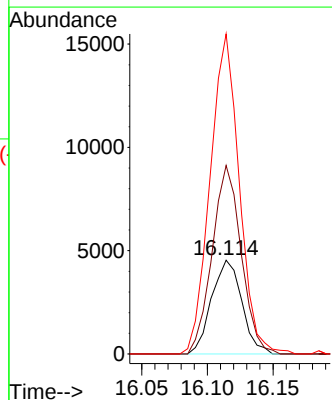
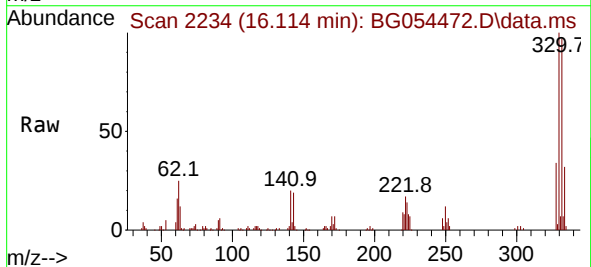
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D

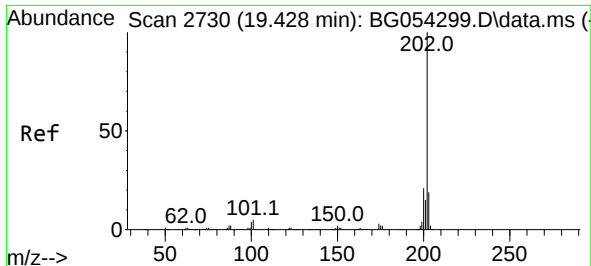
Tgt Ion:188 Resp: 136078  
Ion Ratio Lower Upper  
188 100  
94 4.1 5.4 8.0#  
80 4.2 6.8 10.2#



#67  
4-Bromophenyl-phenylether  
Concen: 3.802 ng  
RT: 16.114 min Scan# 2234  
Delta R.T. -0.441 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

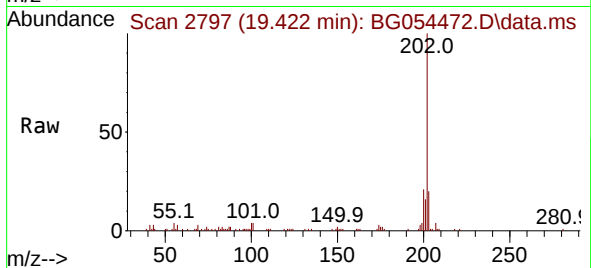
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248 100  
250 152.5 75.2 112.8#  
141 258.9 50.0 75.0#



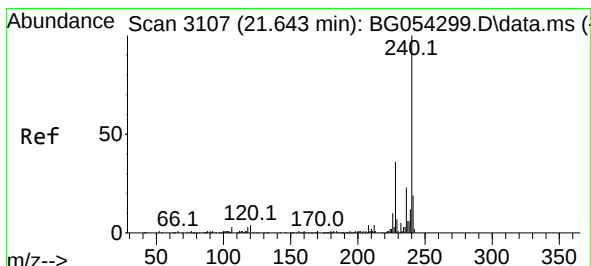
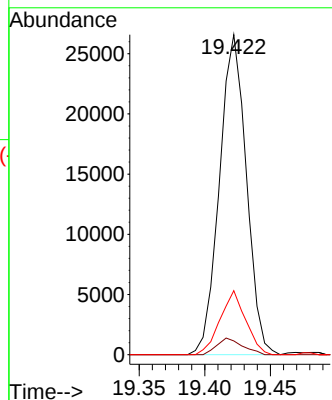
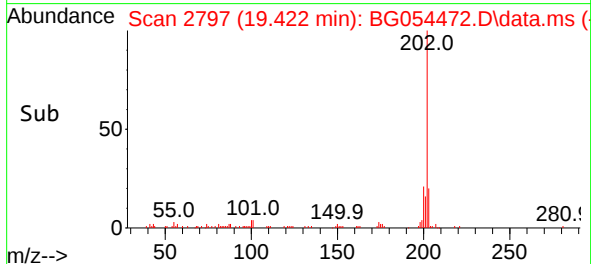


#75  
Fluoranthene  
Concen: 4.106 ng  
RT: 19.422 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

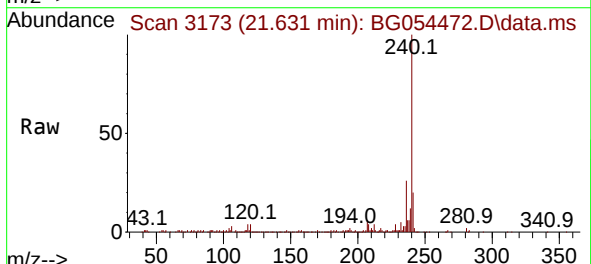
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D



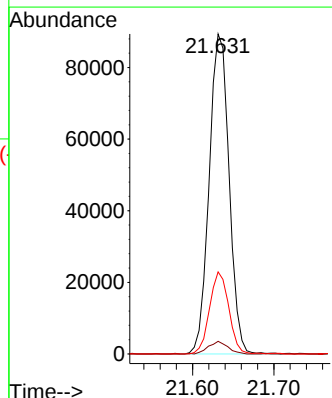
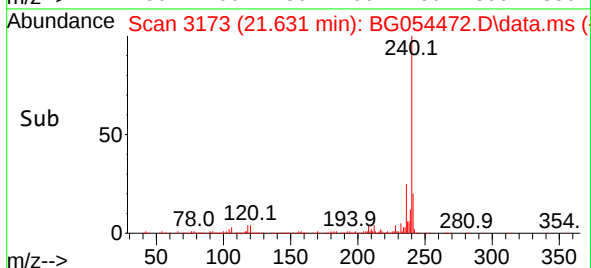
Tgt Ion:202 Resp: 37927  
Ion Ratio Lower Upper  
202 100  
101 4.3 0.0 26.9  
203 20.0 0.0 37.2

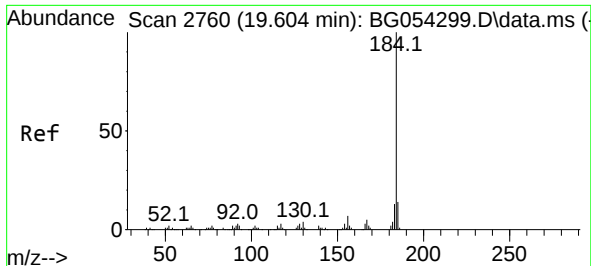


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.631 min Scan# 3173  
Delta R.T. -0.006 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06



Tgt Ion:240 Resp: 152101  
Ion Ratio Lower Upper  
240 100  
120 4.0 4.6 7.0#  
236 25.6 20.2 30.4

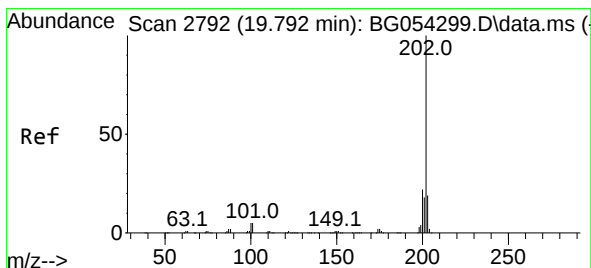
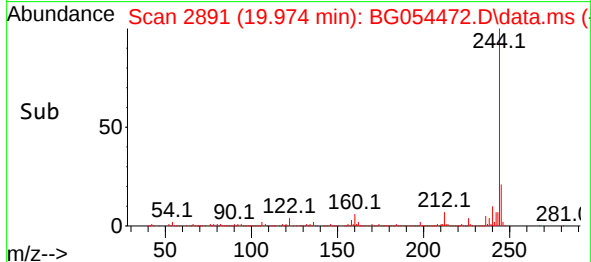
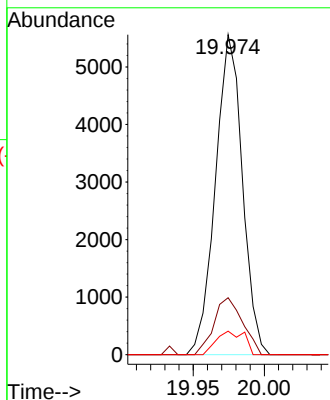
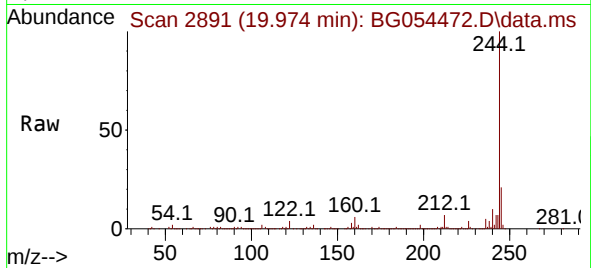




#77  
Benzidine  
Concen: 2.656 ng  
RT: 19.974 min Scan# 21  
Delta R.T. 0.376 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

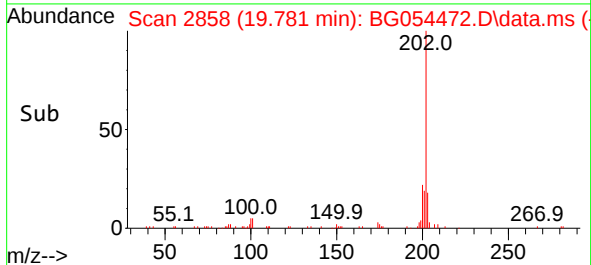
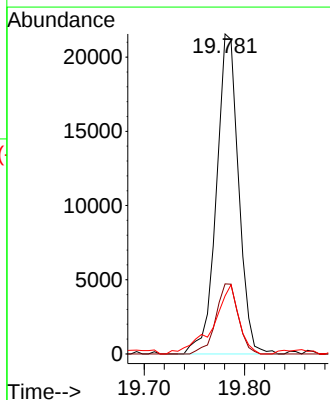
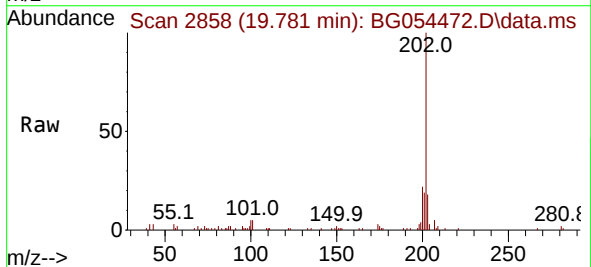
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D

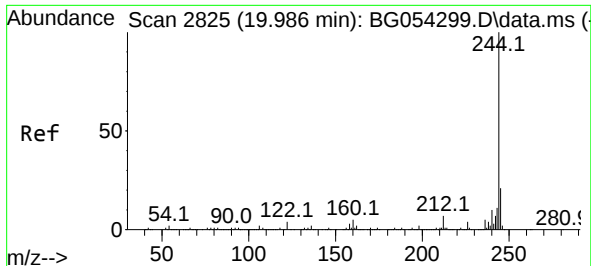
Tgt Ion:184 Resp: 7316  
Ion Ratio Lower Upper  
184 100  
185 17.8 11.8 17.6#  
183 7.4 8.9 13.3#



#78  
Pyrene  
Concen: 3.780 ng  
RT: 19.781 min Scan# 2858  
Delta R.T. -0.006 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

Tgt Ion:202 Resp: 32992  
Ion Ratio Lower Upper  
202 100  
200 21.9 16.6 24.8  
203 18.2 14.6 21.8

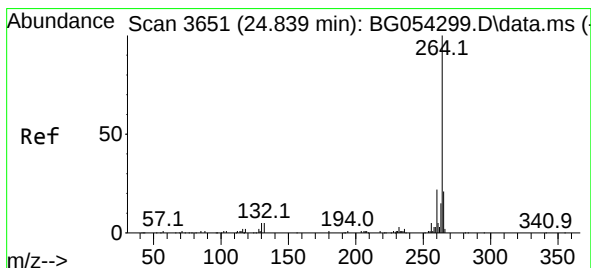
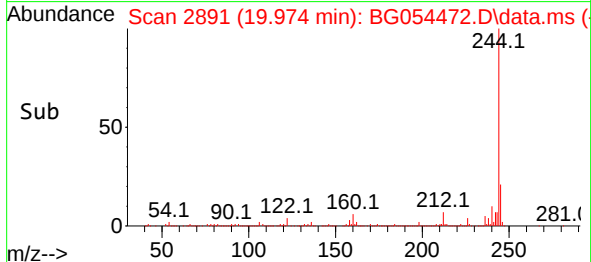
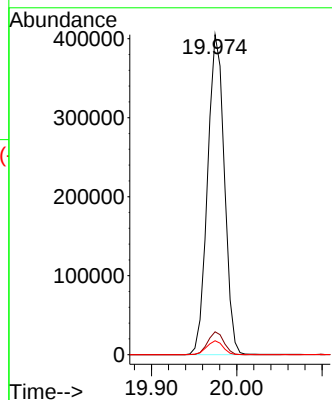
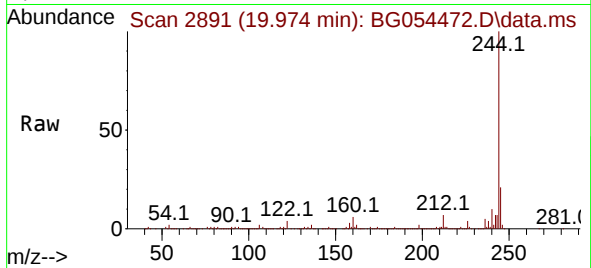




#79  
 Terphenyl-d14  
 Concen: 72.330 ng  
 RT: 19.974 min Scan# 21  
 Delta R.T. -0.006 min  
 Lab File: BG054472.D  
 Acq: 1 Aug 2022 20:06

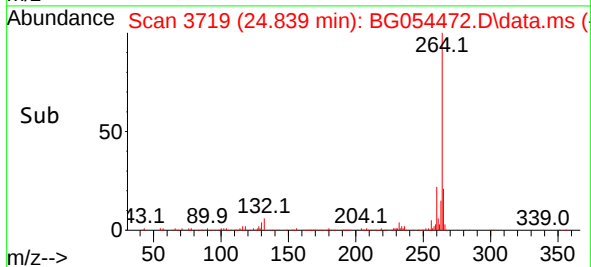
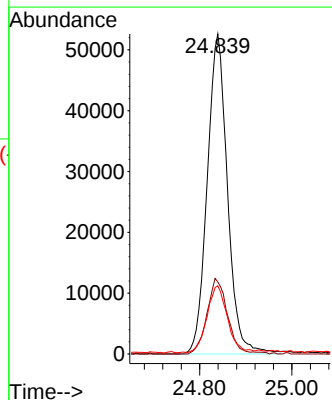
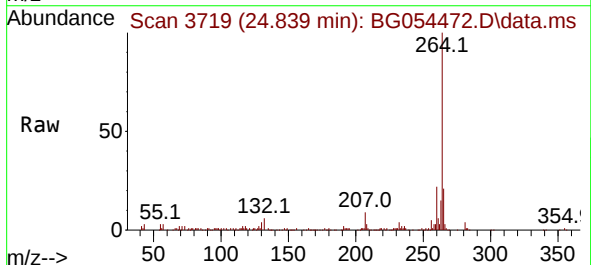
Instrument :  
 BNA\_G  
 ClientSampleId :  
 RVE-59D

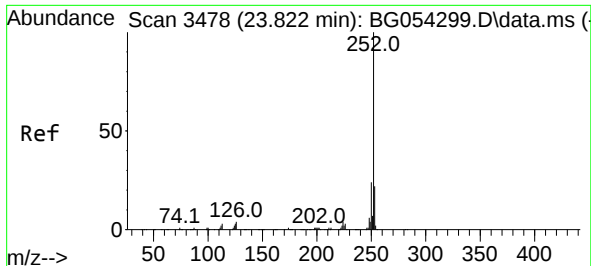
Tgt Ion:244 Resp: 554567  
 Ion Ratio Lower Upper  
 244 100  
 212 7.2 6.5 9.7  
 122 4.4 5.0 7.4#



#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.839 min Scan# 3719  
 Delta R.T. 0.006 min  
 Lab File: BG054472.D  
 Acq: 1 Aug 2022 20:06

Tgt Ion:264 Resp: 160796  
 Ion Ratio Lower Upper  
 264 100  
 260 22.5 19.0 28.6  
 265 21.3 17.4 26.2

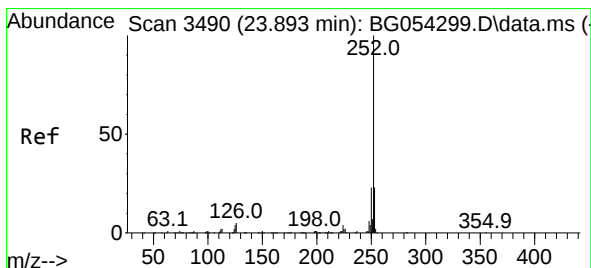
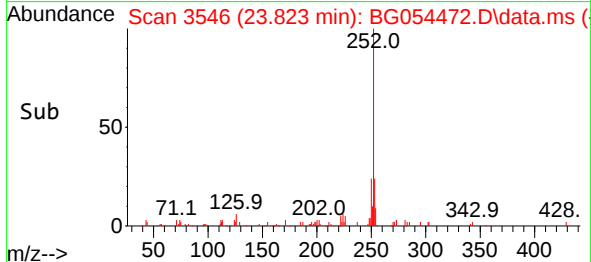
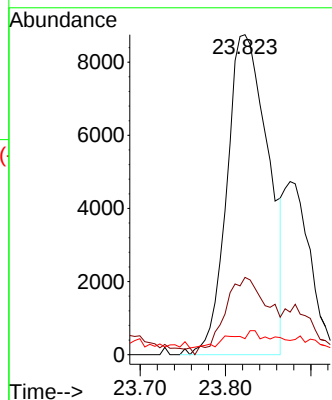
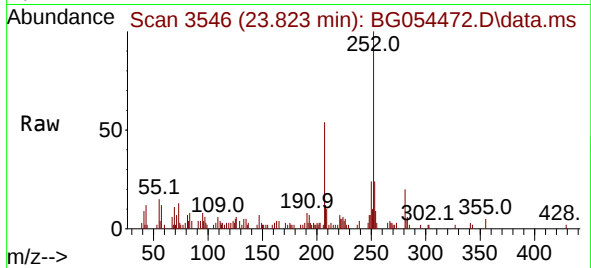




#88  
Benzo(b)fluoranthene  
Concen: 3.105 ng  
RT: 23.823 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

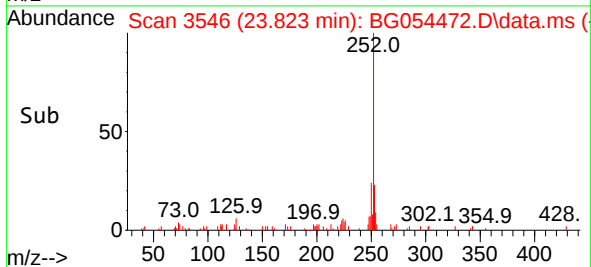
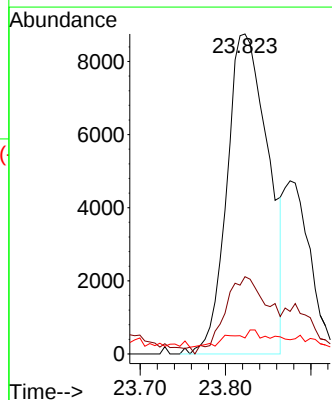
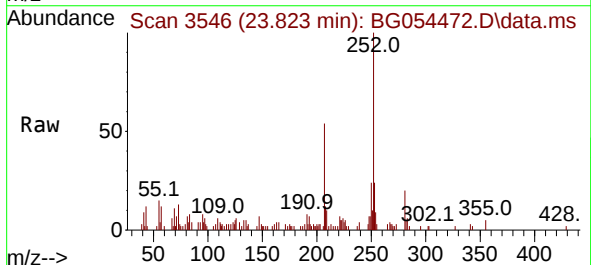
Instrument :  
BNA\_G  
ClientSampleId :  
RVE-59D

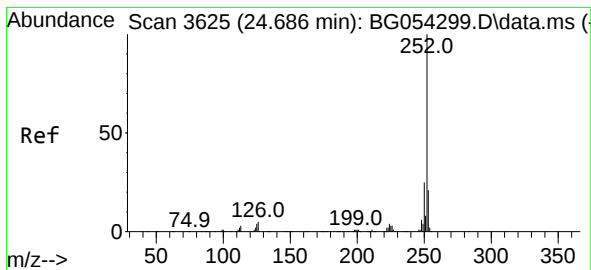
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 29529 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 18.0  | 27.0  |
| 125       | 5.0   | 4.6   | 6.8   |



#89  
Benzo(k)fluoranthene  
Concen: 3.120 ng  
RT: 23.823 min Scan# 3546  
Delta R.T. -0.064 min  
Lab File: BG054472.D  
Acq: 1 Aug 2022 20:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 29529 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 18.4  | 27.6  |
| 125       | 5.0   | 4.8   | 7.2   |





#90

Benzo(a)pyrene

Concen: 2.111 ng

RT: 24.681 min Scan# 30

Delta R.T. -0.006 min

Lab File: BG054472.D

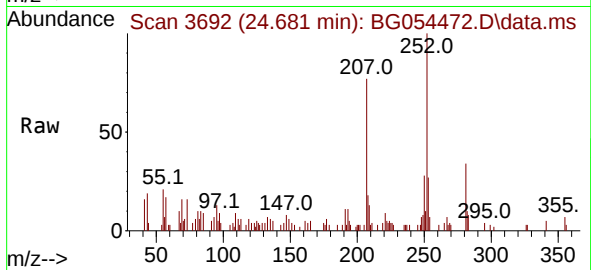
Acq: 1 Aug 2022 20:06

Instrument :

BNA\_G

ClientSampleId :

RVE-59D



Tgt Ion:252 Resp: 17141

Ion Ratio Lower Upper

252 100

253 27.4 17.8 26.8#

125 5.3 4.3 6.5

