

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120623\  
 Data File : BG059973.D  
 Acq On : 6 Dec 2023 17:19  
 Operator : MA/JU  
 Sample : 05602-10  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ROUTE-4-TP-5

Quant Time: Dec 06 23:17:04 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG120423.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Dec 05 02:26:15 2023  
 Response via : Initial Calibration

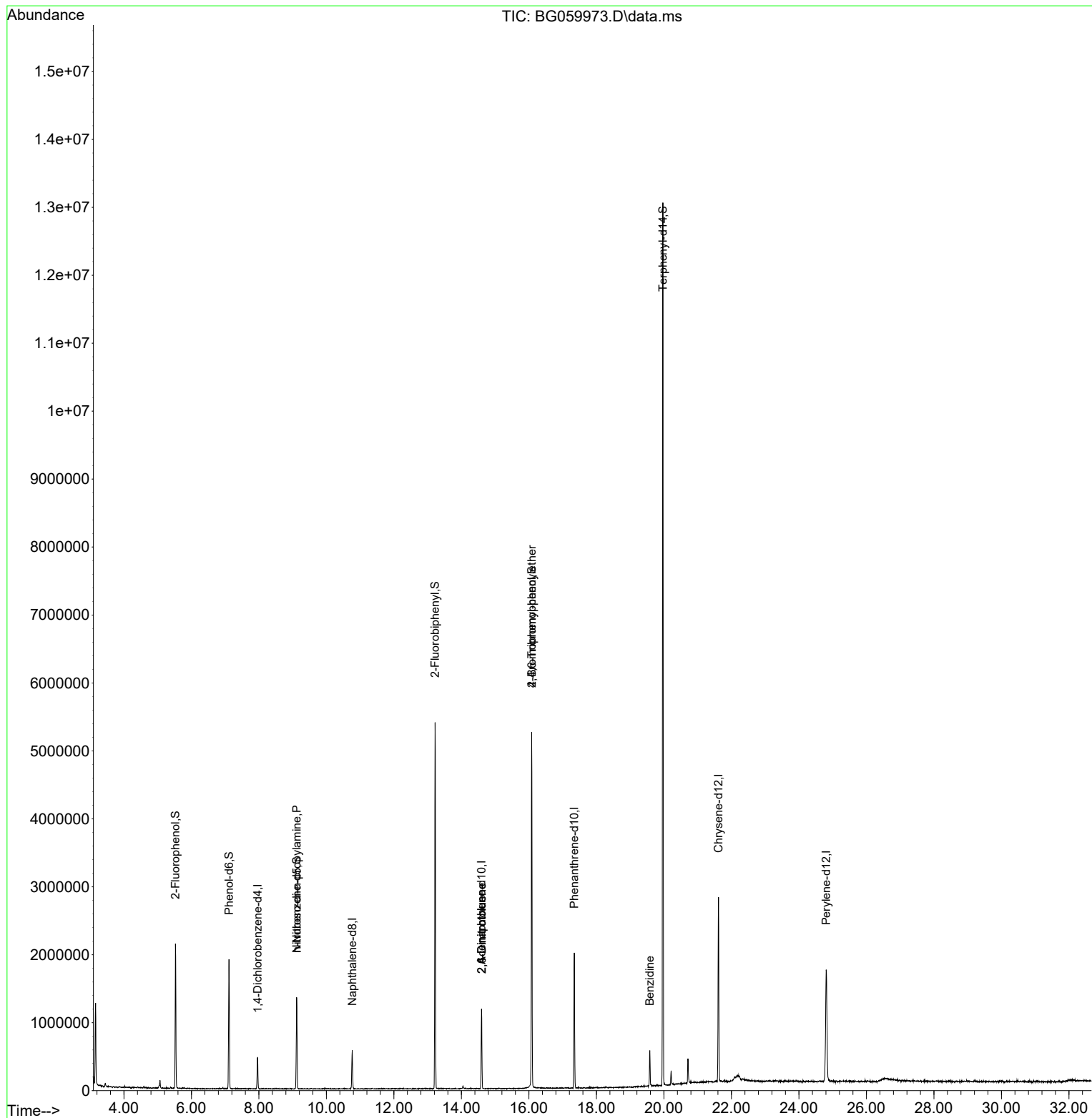
| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.961  | 152  | 128143   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.763 | 136  | 437490   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.594 | 164  | 405732   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.344 | 188  | 1415041  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.615 | 240  | 1830940  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 24.806 | 264  | 2186393  | 20.000  | ng    | #-0.01   |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.528  | 112  | 833380   | 130.671 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.115  | 99   | 982495   | 97.740  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.118  | 82   | 806894   | 65.931  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.081 | 330  | 1298068  | 99.438  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.219 | 172  | 2845229  | 76.485  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.970 | 244  | 6211668  | 58.485  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
| 19) n-Nitroso-di-n-propyla... | 9.118  | 70   | 121113   | 16.077  | ng    | # 73     |
| 51) 2,6-Dinitrotoluene        | 14.600 | 165  | 59229    | 7.827   | ng    | # 19     |
| 57) 2,4-Dinitrotoluene        | 14.600 | 165  | 59229    | 5.628   | ng    | # 23     |
| 67) 4-Bromophenyl-phenylether | 16.081 | 248  | 79323    | 3.272   | ng    | # 1      |
| 77) Benzidine                 | 19.582 | 184  | 387677   | 25.123  | ng    | 98       |
| -----                         |        |      |          |         |       |          |

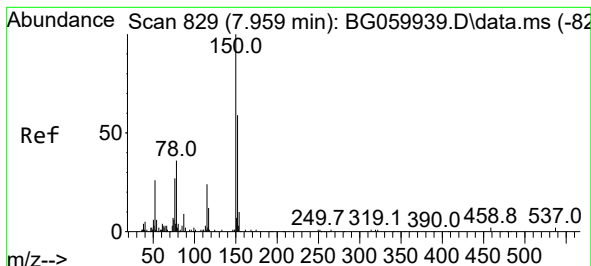
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG120623\  
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ROUTE-4-TP-5

Quant Time: Dec 06 23:17:04 2023  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Dec 05 02:26:15 2023  
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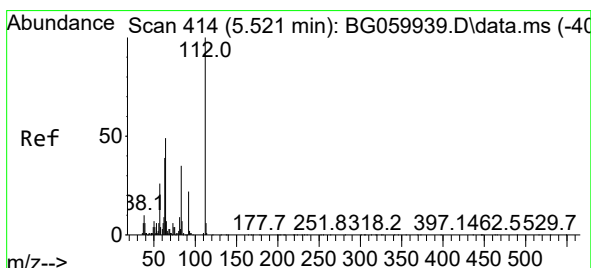
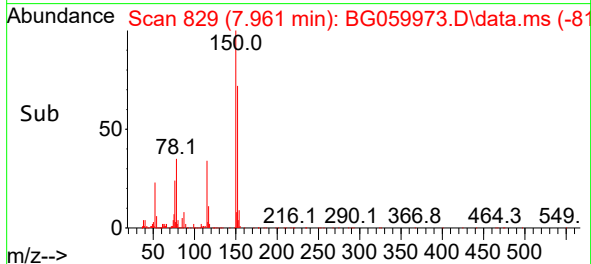
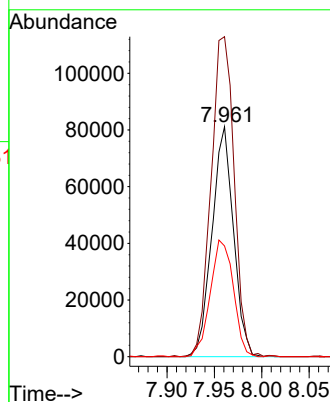
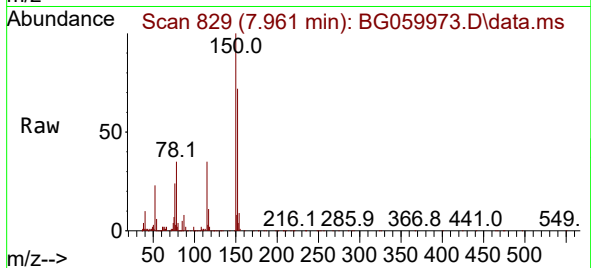




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.961 min Scan# 81  
Delta R.T. 0.002 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

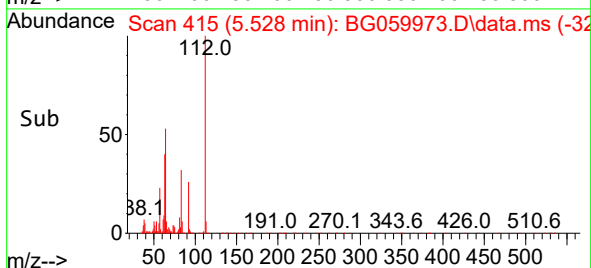
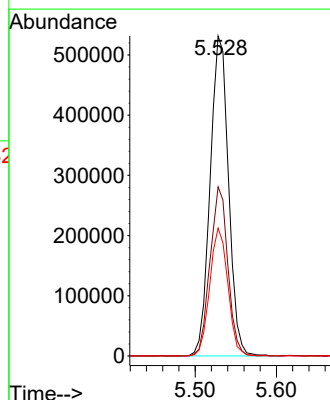
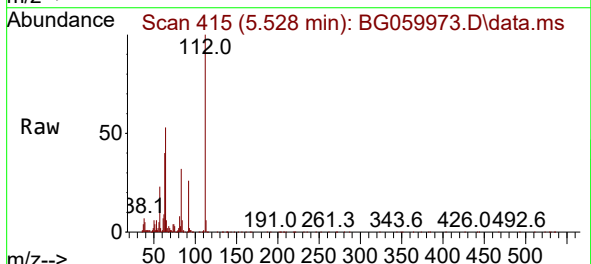
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BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

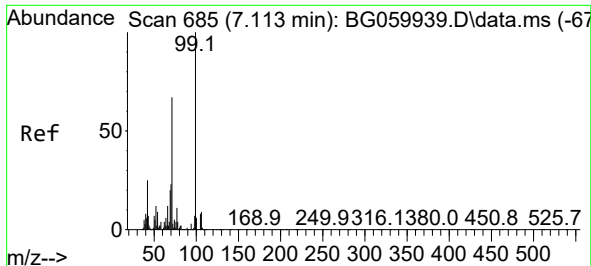
Tgt Ion:152 Resp: 128143  
Ion Ratio Lower Upper  
152 100  
150 139.1 136.9 205.3  
115 48.1 32.9 49.3



#5  
2-Fluorophenol  
Concen: 130.671 ng  
RT: 5.528 min Scan# 415  
Delta R.T. 0.007 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Tgt Ion:112 Resp: 833380  
Ion Ratio Lower Upper  
112 100  
64 52.9 39.4 59.0  
63 39.9 31.2 46.8

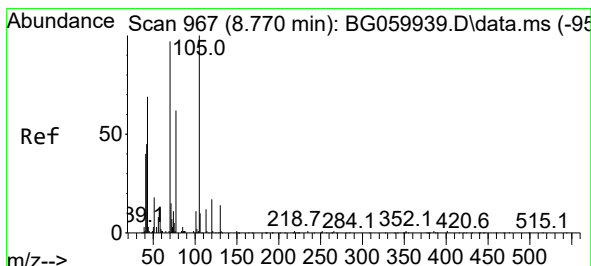
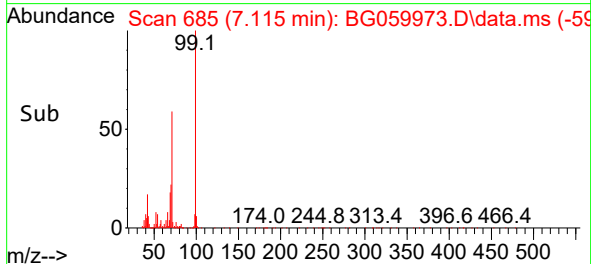
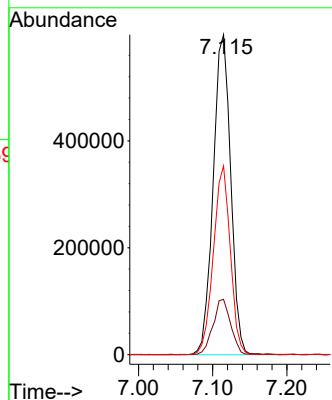
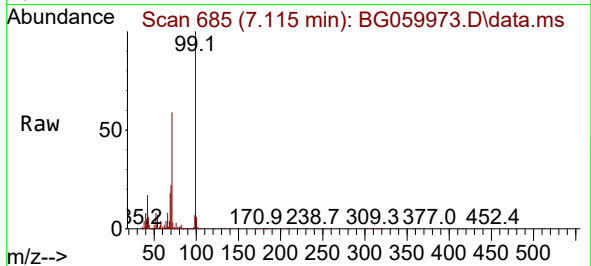




#7  
Phenol-d6  
Concen: 97.740 ng  
RT: 7.115 min Scan# 61  
Delta R.T. 0.001 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

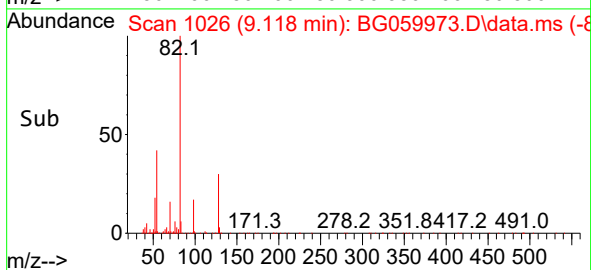
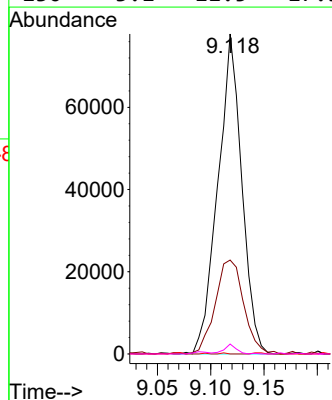
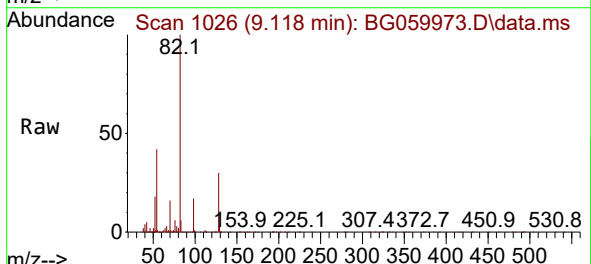
Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

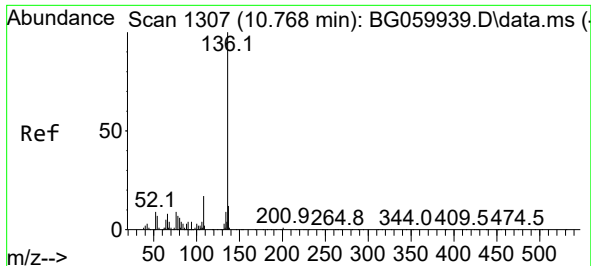
Tgt Ion: 99 Resp: 982495  
Ion Ratio Lower Upper  
99 100  
42 17.3 20.1 30.1#  
71 59.0 53.8 80.6



#19  
n-Nitroso-di-n-propylamine  
Concen: 16.077 ng  
RT: 9.118 min Scan# 1026  
Delta R.T. 0.348 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Tgt Ion: 70 Resp: 121113  
Ion Ratio Lower Upper  
70 100  
42 29.3 38.1 57.1#  
101 0.0 8.6 13.0#  
130 3.1 11.5 17.3#

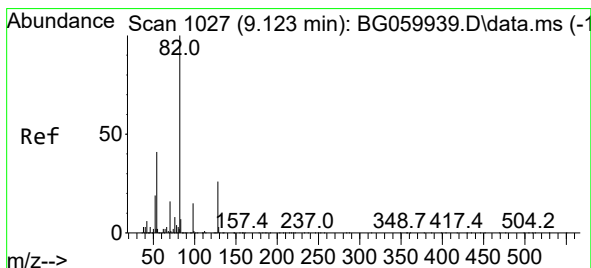
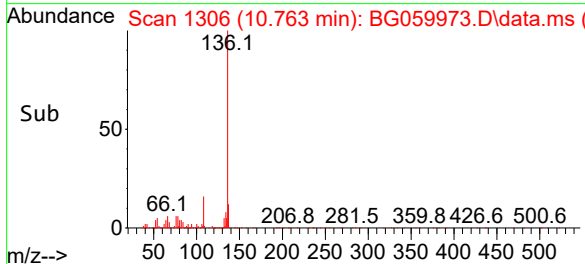
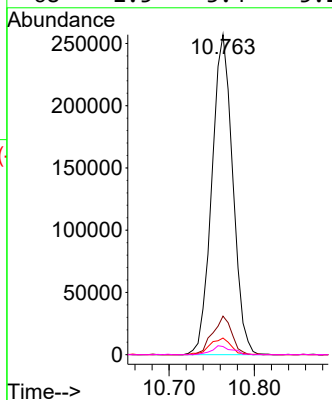
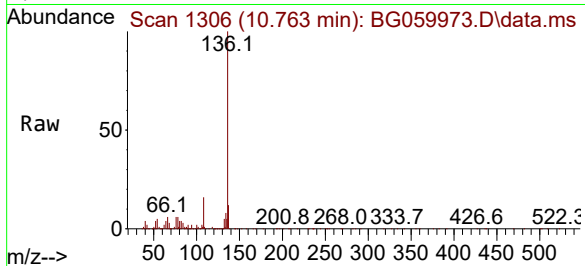




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.763 min Scan# 1307  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

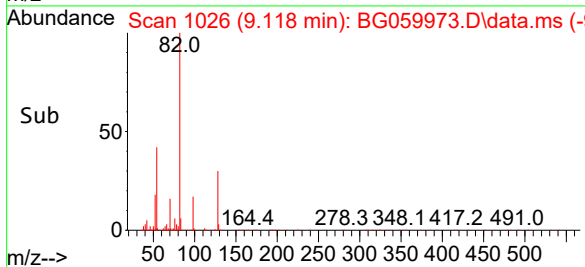
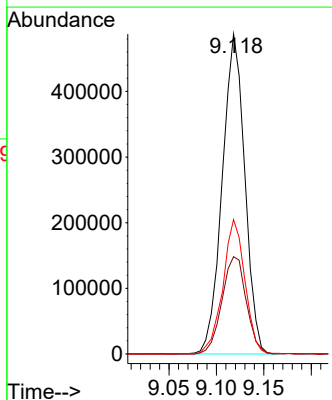
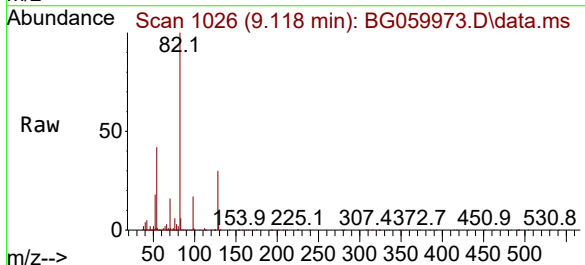
Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

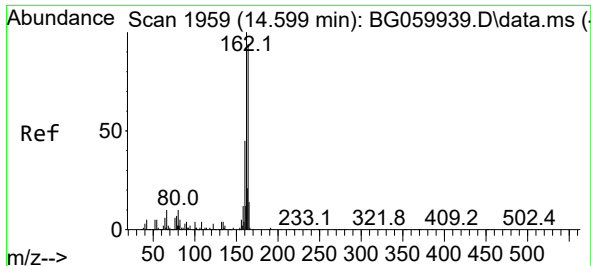
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 437490 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 12.1  | 9.8   | 14.6   |
| 54       | 5.2   | 5.8   | 8.6#   |
| 68       | 2.5   | 3.4   | 5.2#   |



#23  
Nitrobenzene-d5  
Concen: 65.931 ng  
RT: 9.118 min Scan# 1026  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 806894 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 30.4  | 21.0  | 31.6   |
| 54       | 42.0  | 32.6  | 48.8   |

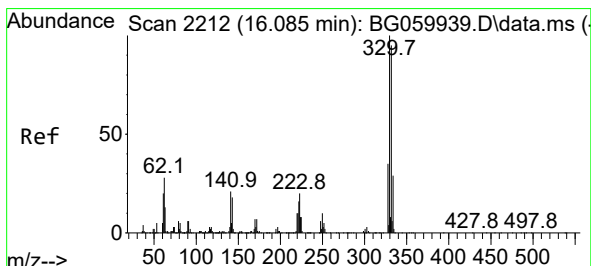
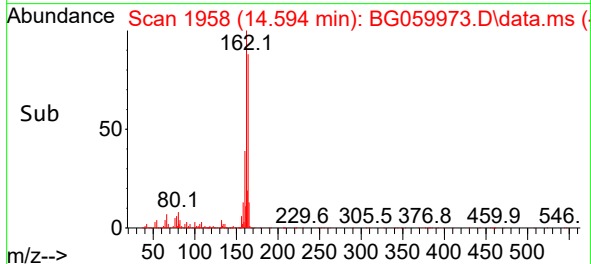
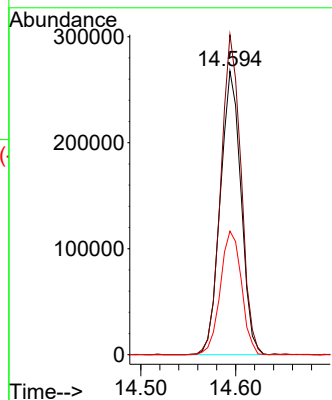
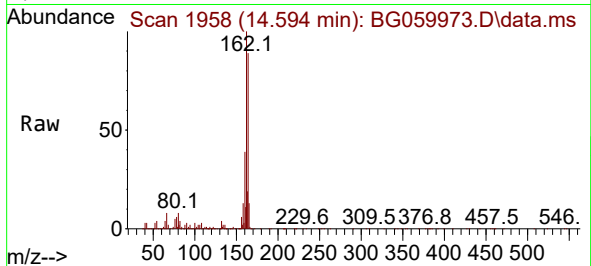




#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.594 min Scan# 1958  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

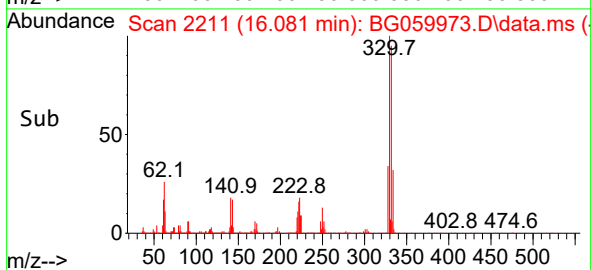
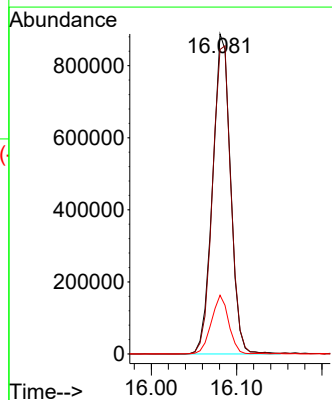
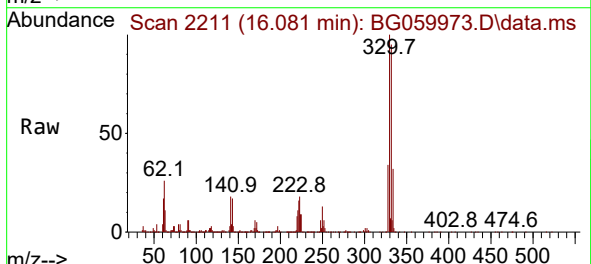
Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

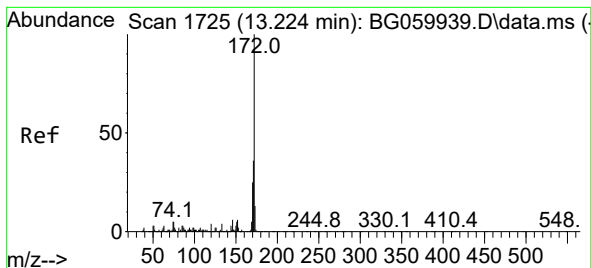
Tgt Ion:164 Resp: 405732  
Ion Ratio Lower Upper  
164 100  
162 112.8 85.0 127.6  
160 43.5 38.1 57.1



#42  
2,4,6-Tribromophenol  
Concen: 99.438 ng  
RT: 16.081 min Scan# 2211  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Tgt Ion:330 Resp: 1298068  
Ion Ratio Lower Upper  
330 100  
332 98.3 76.5 114.7  
141 17.8 15.0 22.6

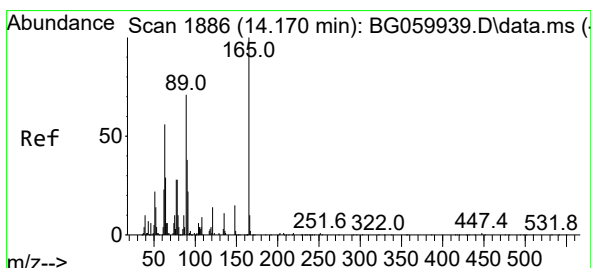
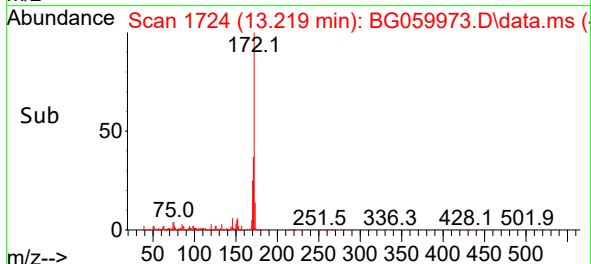
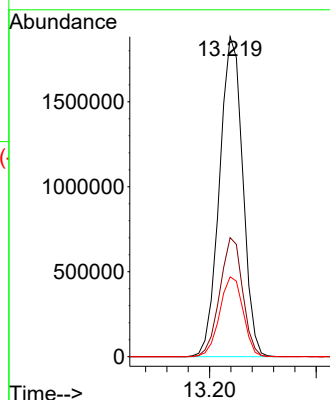
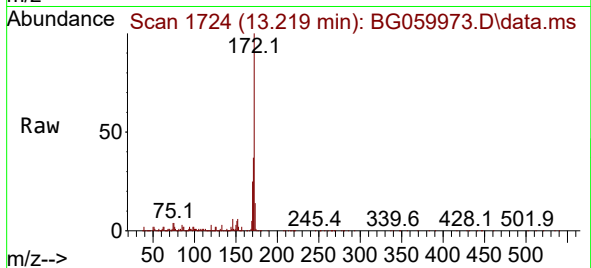




#45  
2-Fluorobiphenyl  
Concen: 76.485 ng  
RT: 13.219 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

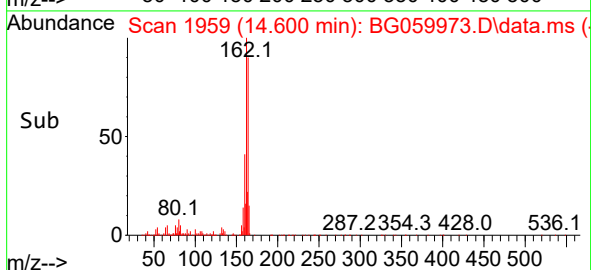
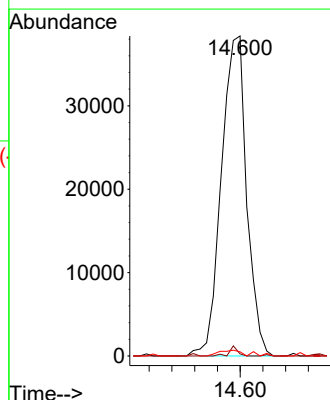
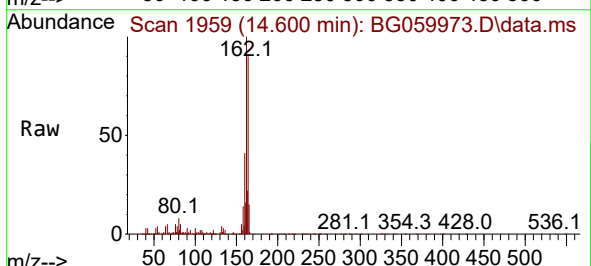
Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

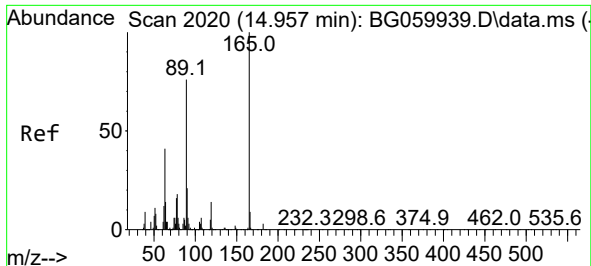
Tgt Ion:172 Resp: 2845229  
Ion Ratio Lower Upper  
172 100  
171 37.2 28.6 43.0  
170 25.0 19.8 29.8



#51  
2,6-Dinitrotoluene  
Concen: 7.827 ng  
RT: 14.600 min Scan# 1959  
Delta R.T. 0.430 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Tgt Ion:165 Resp: 59229  
Ion Ratio Lower Upper  
165 100  
63 0.7 47.2 70.8#  
89 1.3 57.1 85.7#

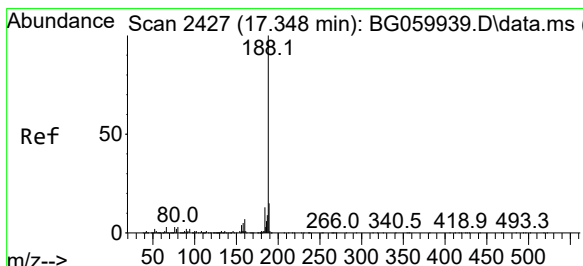
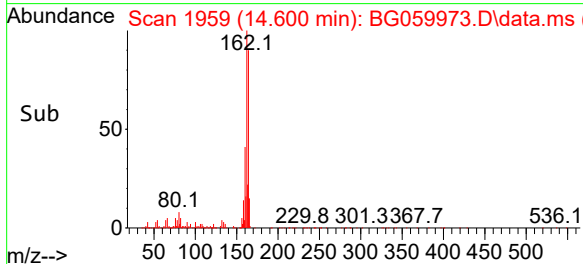
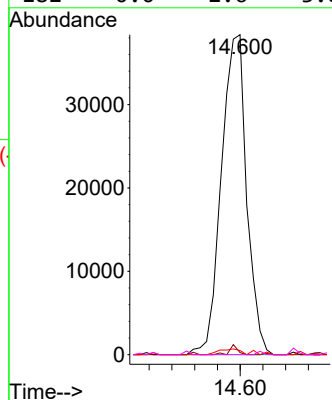
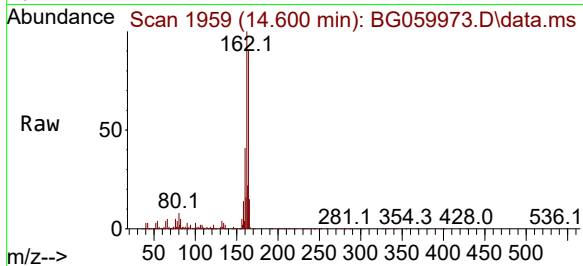




#57  
2,4-Dinitrotoluene  
Concen: 5.628 ng  
RT: 14.600 min Scan# 1959  
Delta R.T. -0.357 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

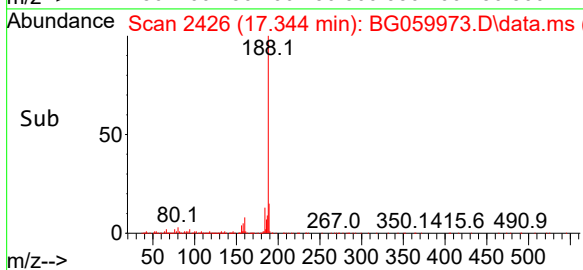
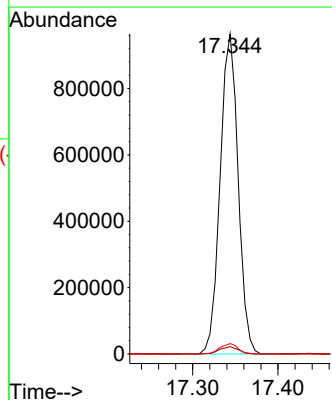
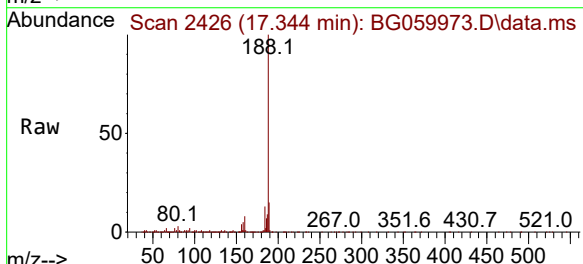
Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

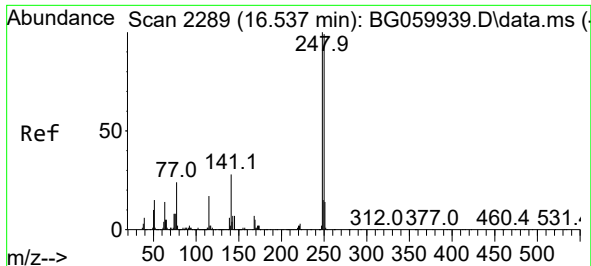
Tgt Ion:165 Resp: 59229  
Ion Ratio Lower Upper  
165 100  
63 0.7 32.8 49.2#  
89 1.3 60.6 90.8#  
182 0.0 2.6 3.8#



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.344 min Scan# 2426  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Tgt Ion:188 Resp: 1415041  
Ion Ratio Lower Upper  
188 100  
94 2.3 1.8 2.6  
80 3.3 2.2 3.4

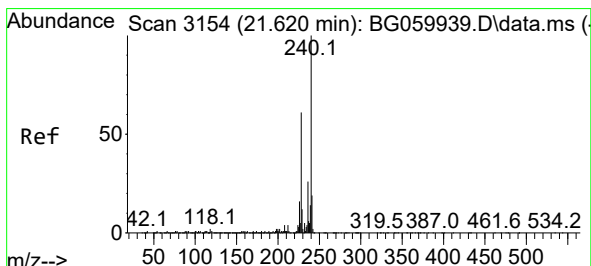
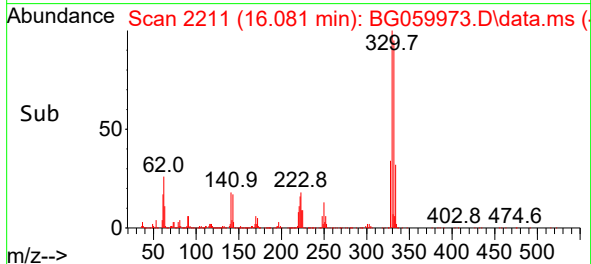
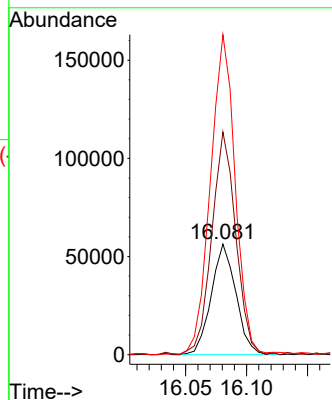
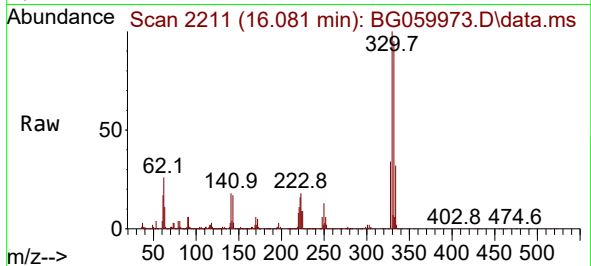




#67  
4-Bromophenyl-phenylether  
Concen: 3.272 ng  
RT: 16.081 min Scan# 211  
Delta R.T. -0.457 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

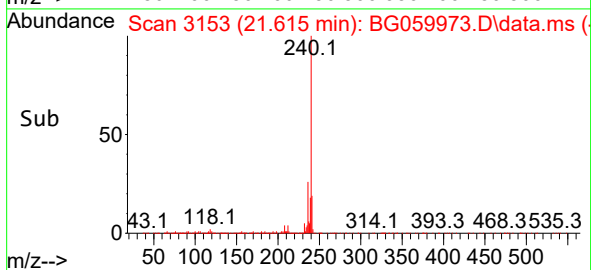
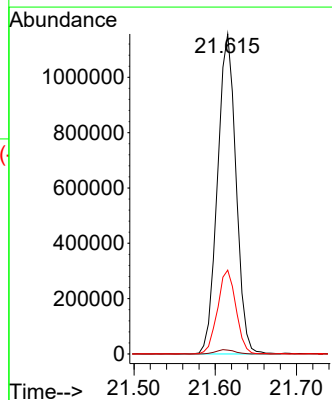
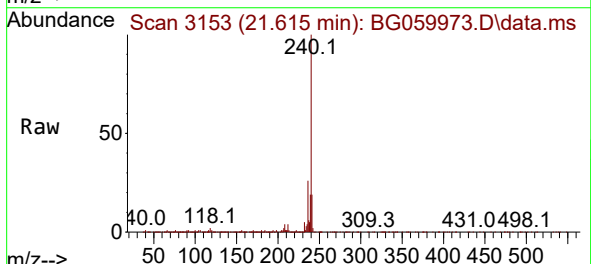
Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5

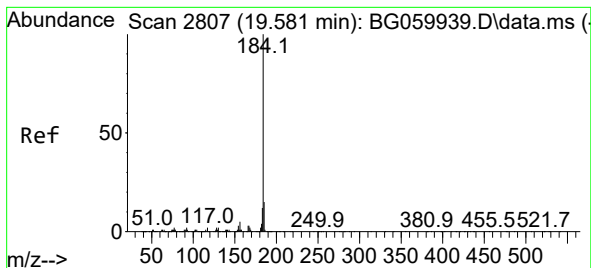
Tgt Ion:248 Resp: 79323  
Ion Ratio Lower Upper  
248 100  
250 201.5 79.0 118.4#  
141 289.5 22.3 33.5#



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.615 min Scan# 3153  
Delta R.T. -0.005 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Tgt Ion:240 Resp: 1830940  
Ion Ratio Lower Upper  
240 100  
120 1.2 1.0 1.4  
236 26.2 20.8 31.2





#77

Benzidine

Concen: 25.123 ng

RT: 19.582 min Scan# 21

Delta R.T. 0.001 min

Lab File: BG059973.D

Acq: 6 Dec 2023 17:19

Instrument :

BNA\_G

ClientSampleId :

ROUTE-4-TP-5

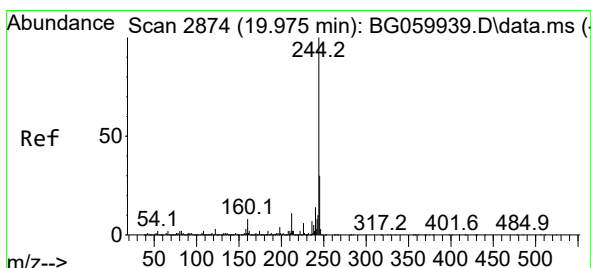
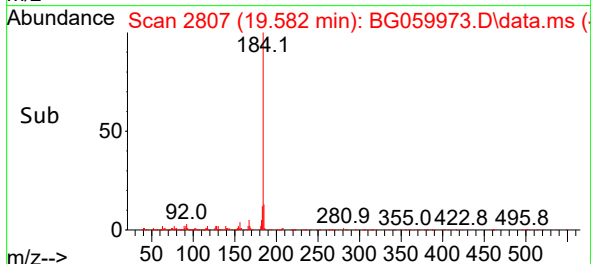
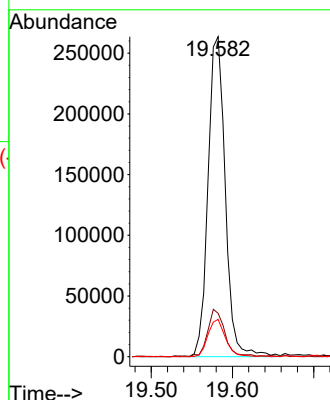
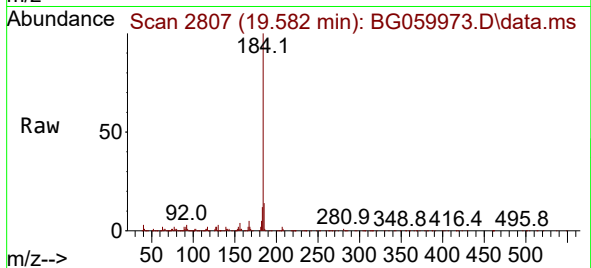
Tgt Ion:184 Resp: 387677

Ion Ratio Lower Upper

184 100

185 13.5 12.0 18.0

183 11.7 9.7 14.5



#79

Terphenyl-d14

Concen: 58.485 ng

RT: 19.970 min Scan# 2873

Delta R.T. -0.005 min

Lab File: BG059973.D

Acq: 6 Dec 2023 17:19

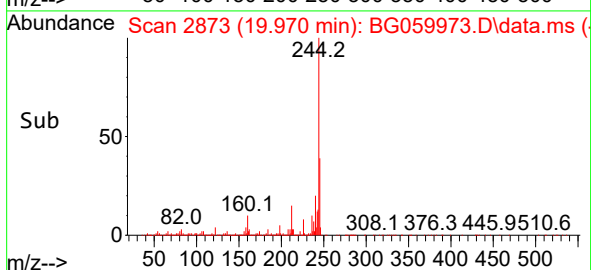
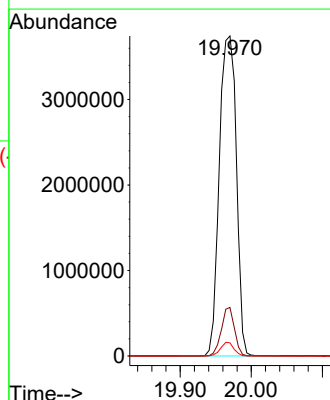
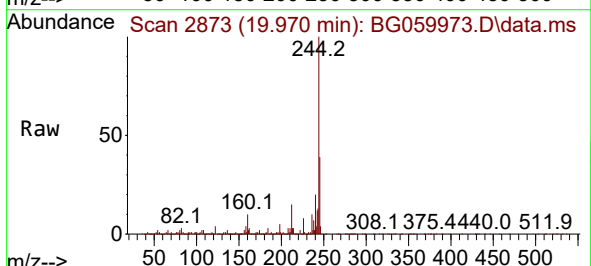
Tgt Ion:244 Resp: 6211668

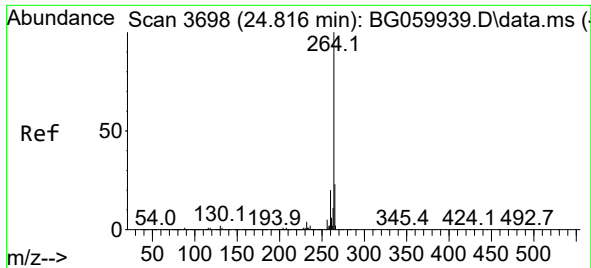
Ion Ratio Lower Upper

244 100

212 15.2 8.6 13.0#

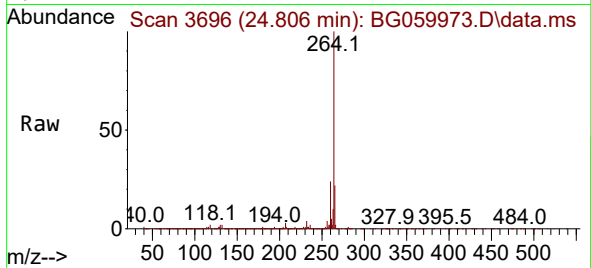
122 4.1 2.1 3.1#





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 24.806 min Scan# 30  
Delta R.T. -0.010 min  
Lab File: BG059973.D  
Acq: 6 Dec 2023 17:19

Instrument :  
BNA\_G  
ClientSampleId :  
ROUTE-4-TP-5



Tgt Ion:264 Resp: 2186393  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 23.9  | 15.8  | 23.6# |
| 265 | 21.6  | 18.1  | 27.1  |

