

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072022\  
 Data File : BG054327.D  
 Acq On : 20 Jul 2022 14:35  
 Operator : CG/JU  
 Sample : N3756-01  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1

Quant Time: Jul 21 01:24:39 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jul 15 15:54:11 2022  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 07/21/2022  
 Supervised By : Jagrut Upadhyay 07/21/2022

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.996  | 152  | 19500    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.804 | 136  | 76205    | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.629 | 164  | 58781    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.373 | 188  | 151823   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.645 | 240  | 181121   | 20.000  | ng    | # 0.00   |
| 86) Perylene-d12            | 24.853 | 264  | 196943   | 20.000  | ng    | 0.01     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.564  | 112  | 100530   | 107.638 | ng    | 0.00     |
| 7) Phenol-d6                | 7.162  | 99   | 135838   | 106.144 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.159  | 82   | 90532    | 64.695  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.122 | 330  | 120494   | 97.631  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.255 | 172  | 268129   | 64.349  | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.988 | 244  | 541867   | 59.350  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 31) Naphthalene             | 10.857 | 128  | 9127     | 2.386   | ng    | # 94     |
| 71) Phenanthrene            | 17.420 | 178  | 88920    | 11.761  | ng    | 99       |
| 72) Anthracene              | 17.508 | 178  | 28281    | 3.812   | ng    | 99       |
| 75) Fluoranthene            | 19.430 | 202  | 272293   | 26.420  | ng    | 94       |
| 78) Pyrene                  | 19.794 | 202  | 276848   | 26.639  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.627 | 228  | 272458   | 23.697  | ng    | 97       |
| 83) Chrysene                | 21.692 | 228  | 248052m  | 22.836  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 28.525 | 276  | 384345   | 25.653  | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 23.836 | 252  | 471314   | 40.467  | ng    | # 98     |
| 89) Benzo(k)fluoranthene    | 23.889 | 252  | 173588m  | 14.976  | ng    |          |
| 90) Benzo(a)pyrene          | 24.706 | 252  | 416147m  | 41.838  | ng    |          |
| 91) Dibenzo(a,h)anthracene  | 28.560 | 278  | 92382    | 7.499   | ng    | # 79     |
| 92) Benzo(g,h,i)perylene    | 29.676 | 276  | 395998   | 32.568  | ng    | # 92     |
| -----                       |        |      |          |         |       |          |

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

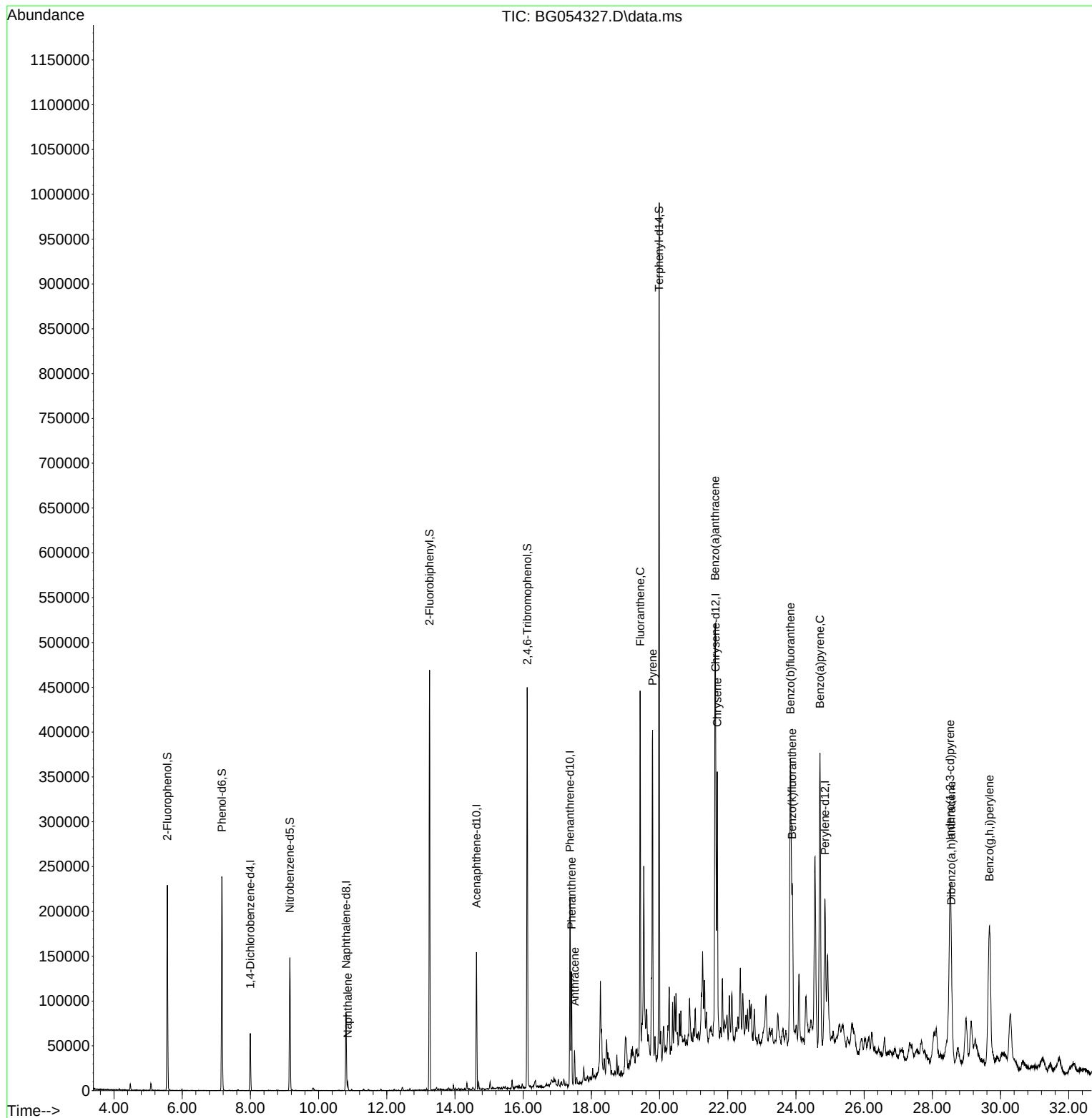
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072022\  
Data File : BG054327.D  
Acq On : 20 Jul 2022 14:35  
Operator : CG/JU  
Sample : N3756-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

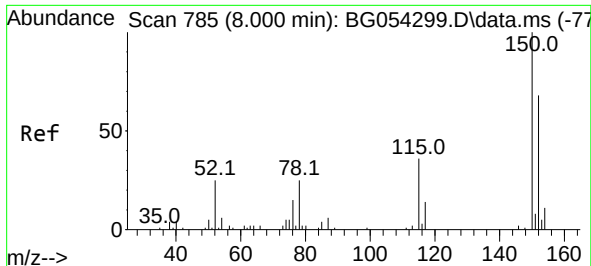
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1

Quant Time: Jul 21 01:24:39 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG071522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jul 15 15:54:11 2022  
Response via : Initial Calibration

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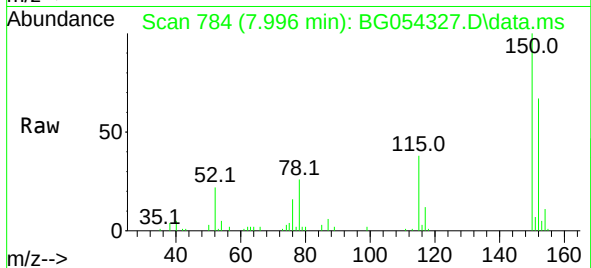
Reviewed By : Christian Giraldo 07/21/2022  
Supervised By : Jagrut Upadhyay 07/21/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.996 min Scan# 70  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

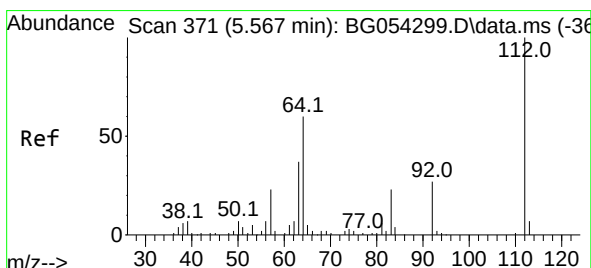
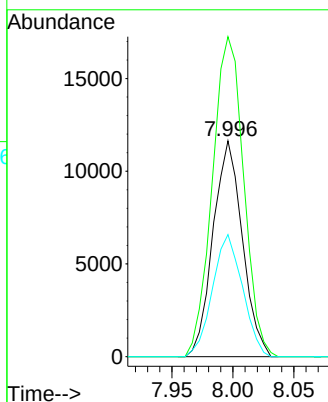
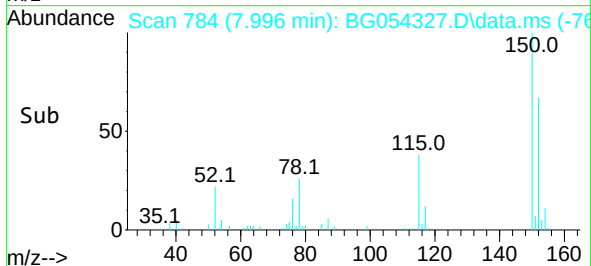
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



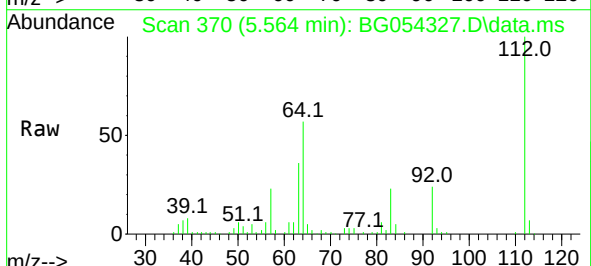
Tgt Ion:152 Resp: 19500  
Ion Ratio Lower Upper  
152 100  
150 148.2 131.6 197.4  
115 56.6 50.9 76.3

Manual Integrations  
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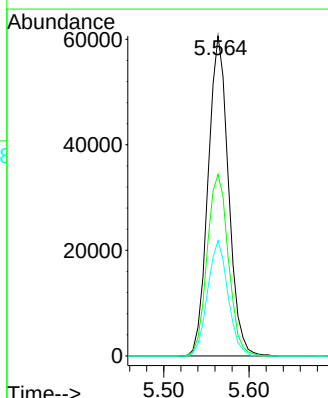
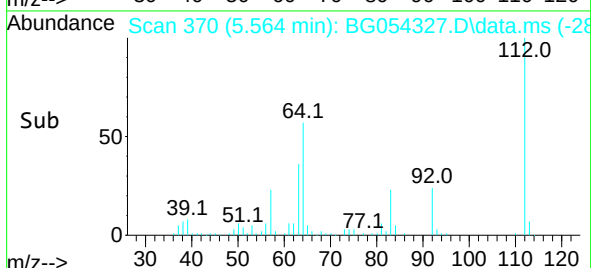
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022

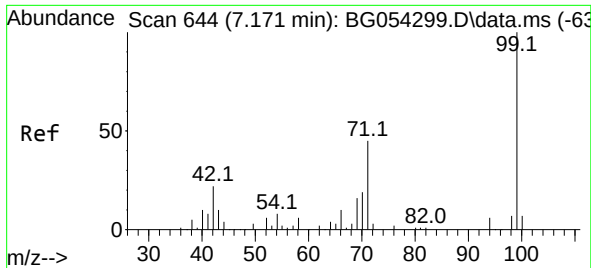


#5  
2-Fluorophenol  
Concen: 107.638 ng  
RT: 5.564 min Scan# 370  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



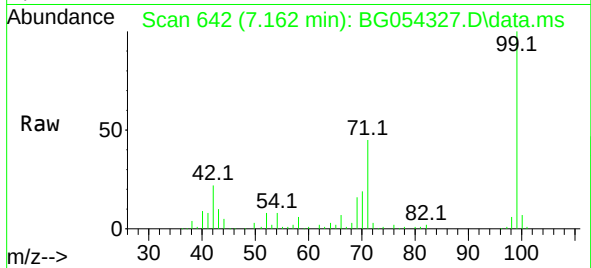
Tgt Ion:112 Resp: 100530  
Ion Ratio Lower Upper  
112 100  
64 56.8 55.1 82.7  
63 36.1 30.4 45.6





#7  
Phenol-d6  
Concen: 106.144 ng  
RT: 7.162 min Scan# 644  
Delta R.T. -0.010 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

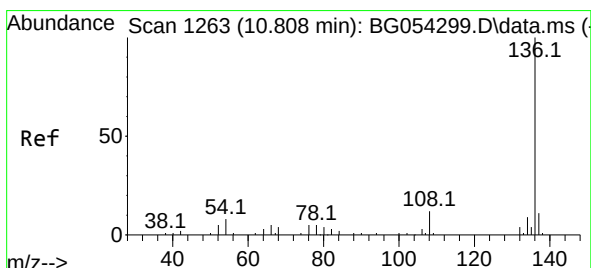
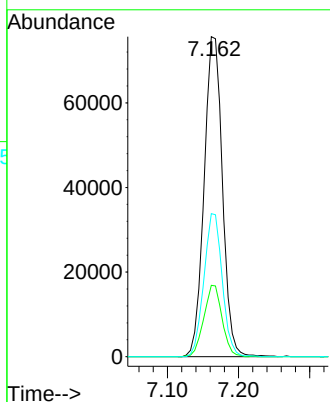
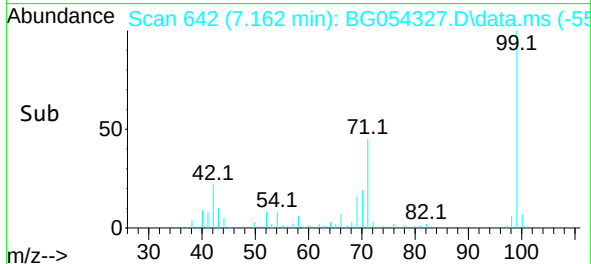
Instrument :  
BNA\_G  
ClientSampleId :  
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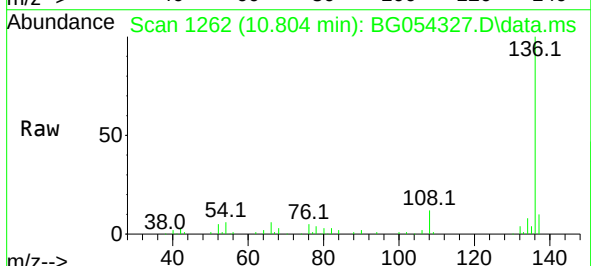
Tgt Ion: 99 Resp: 135838  
Ion Ratio Lower Upper  
99 100  
42 22.3 17.0 25.6  
71 44.7 33.8 50.8

Manual Integrations  
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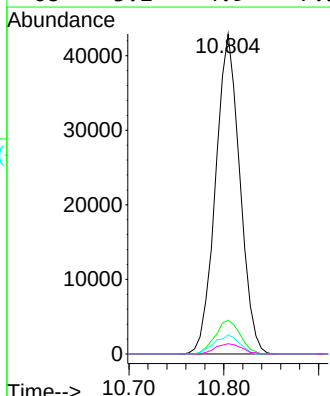
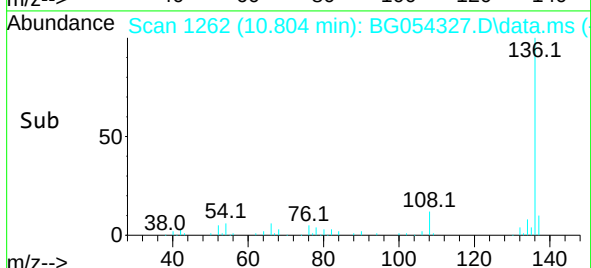
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022

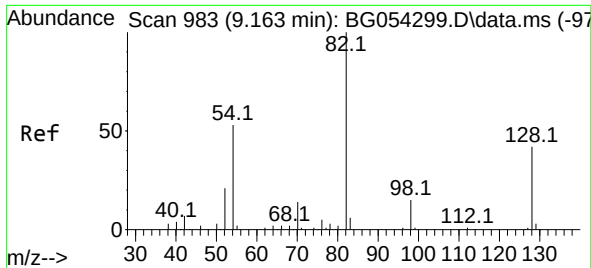


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.804 min Scan# 1262  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



Tgt Ion:136 Resp: 76205  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.5 12.7  
54 6.0 7.4 11.2#  
68 3.2 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 64.695 ng

RT: 9.159 min Scan# 90

Delta R.T. -0.004 min

Lab File: BG054327.D

Acq: 20 Jul 2022 14:35

Instrument :

BNA\_G

ClientSampleId :

TP-1

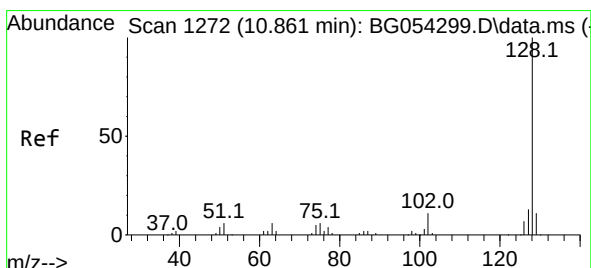
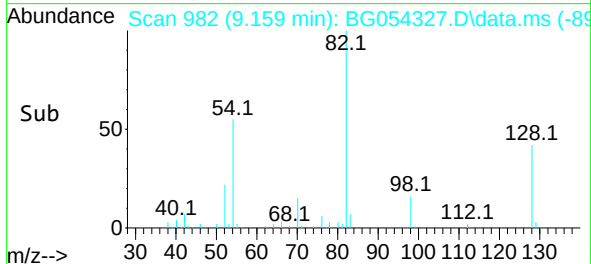
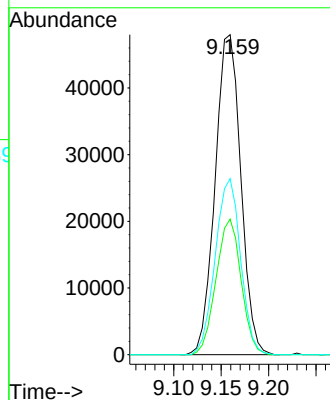
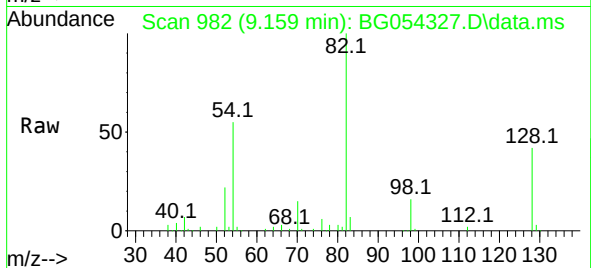
Tgt Ion: 82 Resp: 90532  
 Ion Ratio Lower Upper  
 82 100  
 128 42.3 27.9 41.9  
 54 55.0 41.2 61.8

Manual Integrations

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Supervised By :Jagrut Upadhyay 07/21/2022



#31

Naphthalene

Concen: 2.386 ng

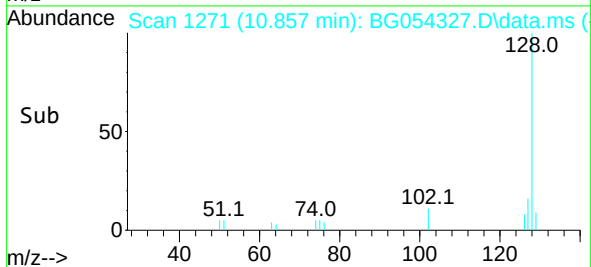
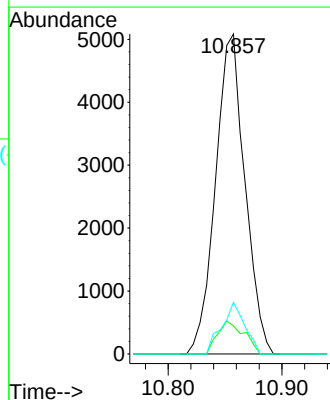
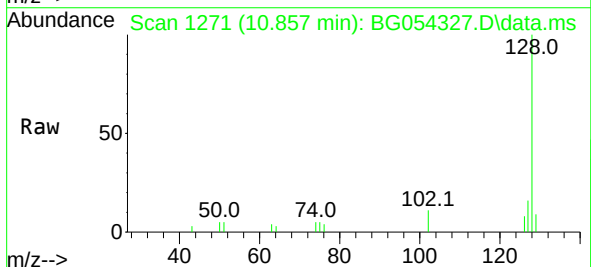
RT: 10.857 min Scan# 1271

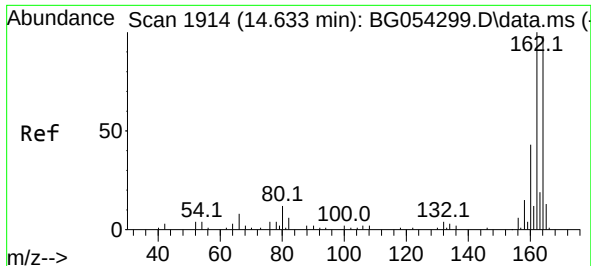
Delta R.T. -0.004 min

Lab File: BG054327.D

Acq: 20 Jul 2022 14:35

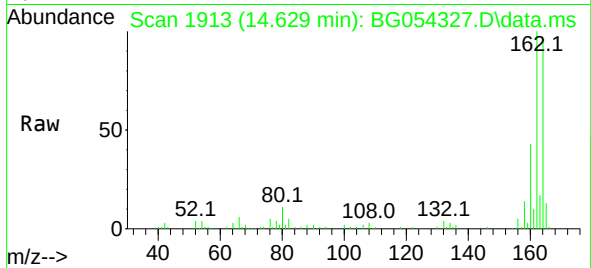
Tgt Ion:128 Resp: 9127  
 Ion Ratio Lower Upper  
 128 100  
 129 8.7 9.0 13.6  
 127 16.1 11.1 16.7





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.629 min Scan# 1914  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

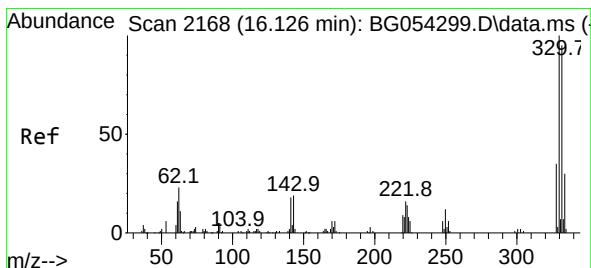
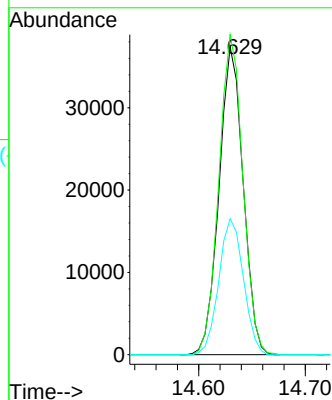
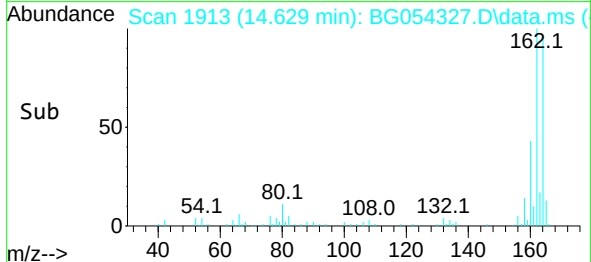
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



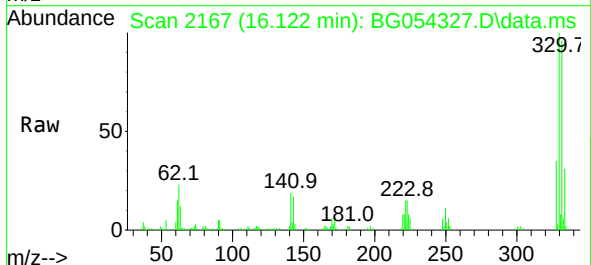
Tgt Ion:164 Resp: 5878  
Ion Ratio Lower Upper  
164 100  
162 104.0 82.3 123.5  
160 44.2 34.2 51.2

Manual Integrations  
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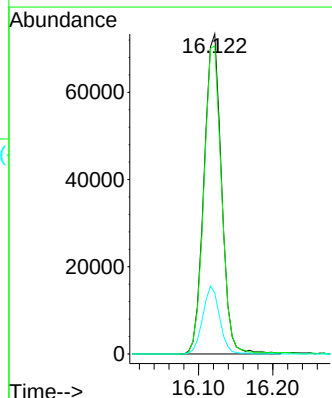
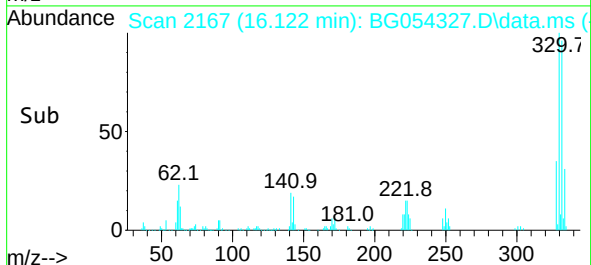
Reviewed By :Christian Giraldo 07/21/2022  
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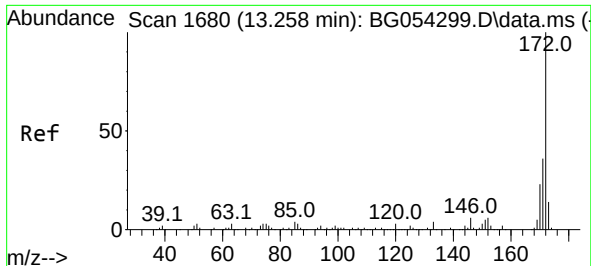


#42  
2,4,6-Tribromophenol  
Concen: 97.631 ng  
RT: 16.122 min Scan# 2167  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



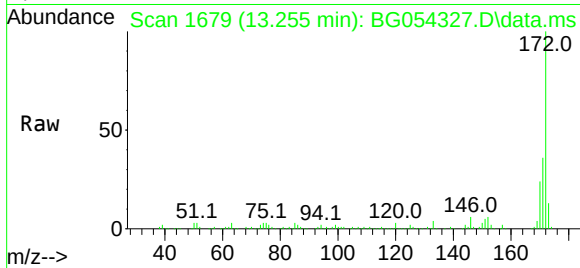
Tgt Ion:330 Resp: 120494  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.0 114.0  
141 20.5 27.1 40.7#





#45  
2-Fluorobiphenyl  
Concen: 64.349 ng  
RT: 13.255 min Scan# 1  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

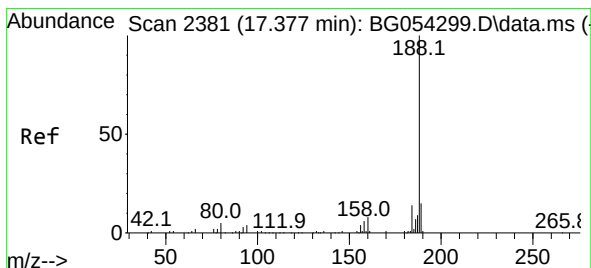
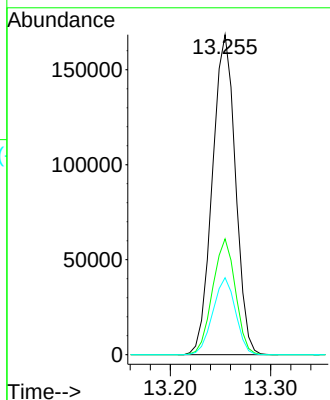
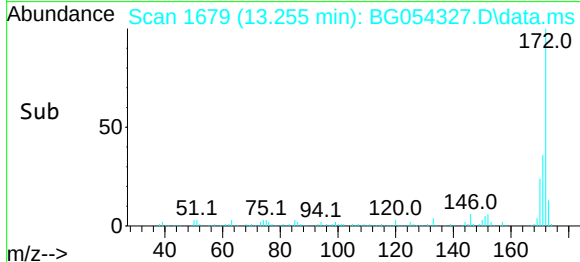
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



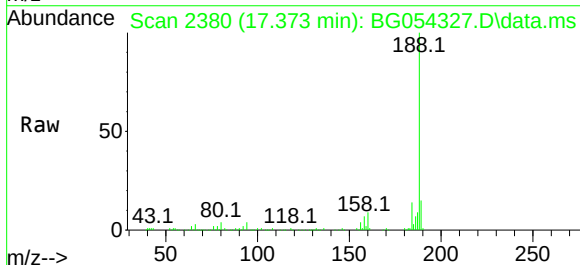
Tgt Ion:172 Resp: 268129  
Ion Ratio Lower Upper  
172 100  
171 36.2 28.5 42.7  
170 24.1 18.9 28.3

Manual Integrations  
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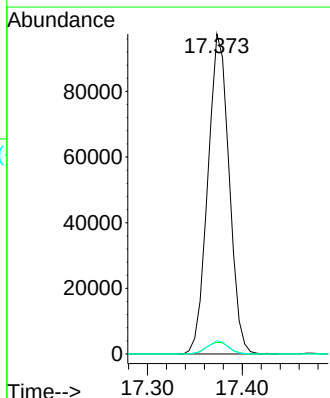
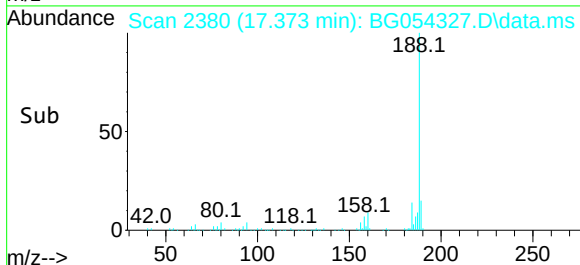
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Supervised By :Jagrut Upadhyay 07/21/2022

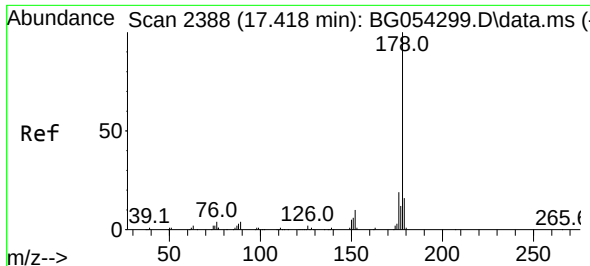


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.373 min Scan# 2380  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



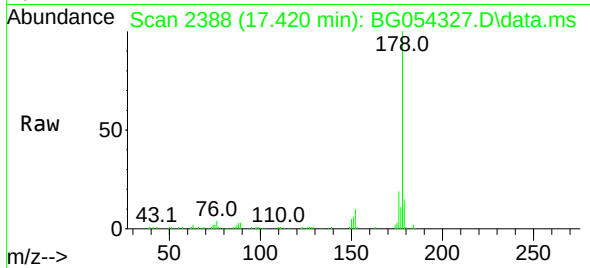
Tgt Ion:188 Resp: 151823  
Ion Ratio Lower Upper  
188 100  
94 3.7 5.4 8.0#  
80 4.2 6.8 10.2#





#71  
Phenanthrene  
Concen: 11.761 ng  
RT: 17.420 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

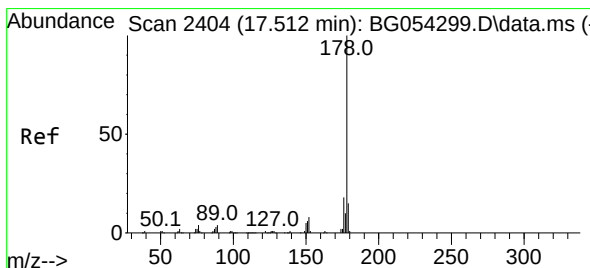
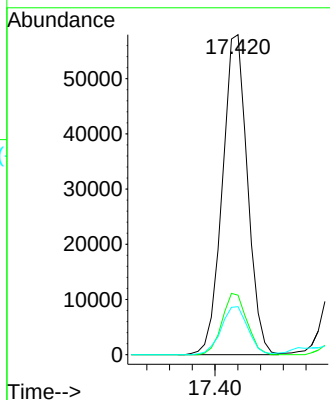
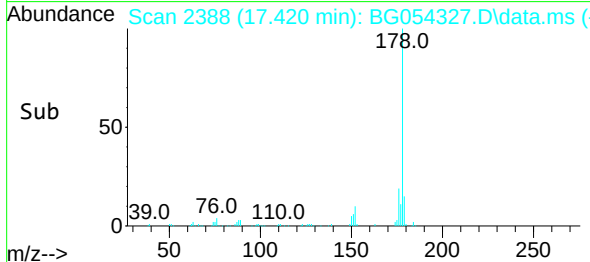
Instrument :  
BNA\_G  
ClientSampleId :  
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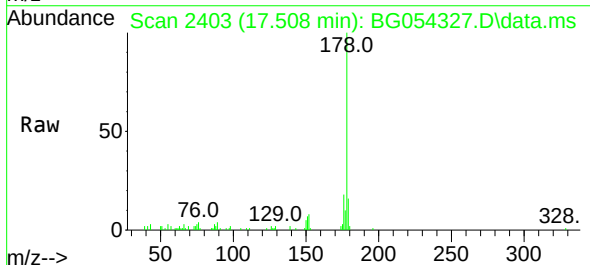
Tgt Ion:178 Resp: 88920  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.1 21.1  
179 15.0 12.1 18.1

Manual Integrations  
APPROVED

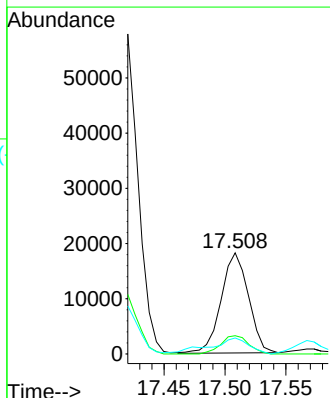
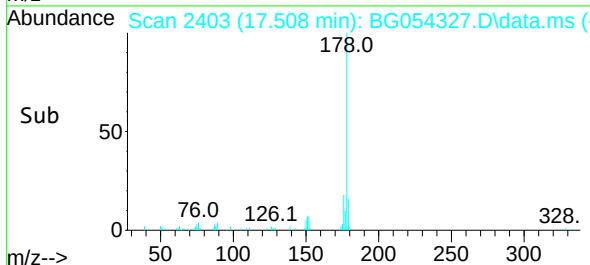
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022



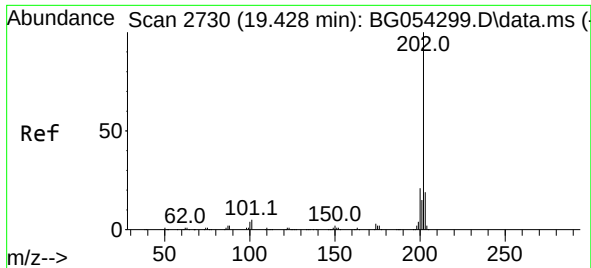
#72  
Anthracene  
Concen: 3.812 ng  
RT: 17.508 min Scan# 2403  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



Tgt Ion:178 Resp: 28281  
Ion Ratio Lower Upper  
178 100  
176 18.1 15.2 22.8  
179 15.9 13.0 19.4

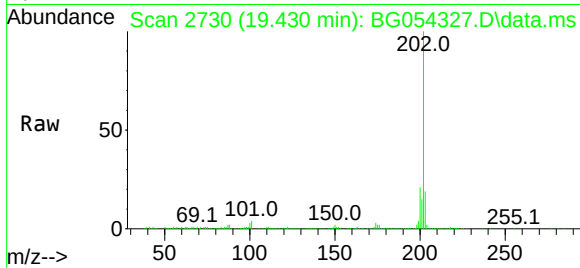






#75  
Fluoranthene  
Concen: 26.420 ng  
RT: 19.430 min Scan# 21  
Delta R.T. 0.002 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

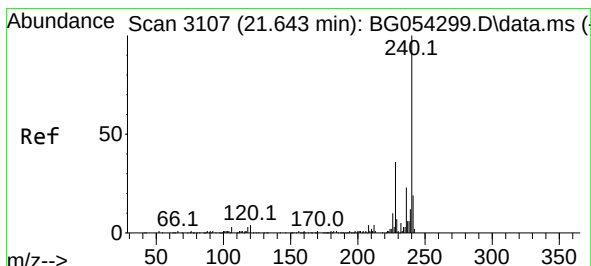
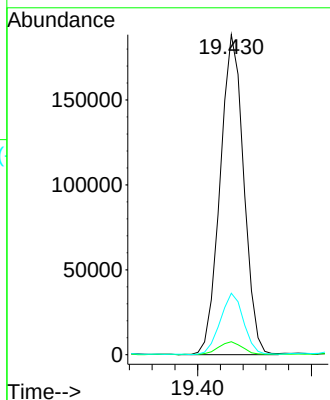
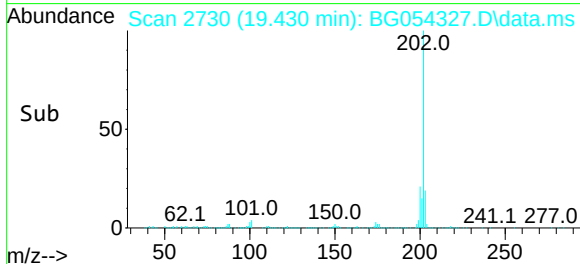
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



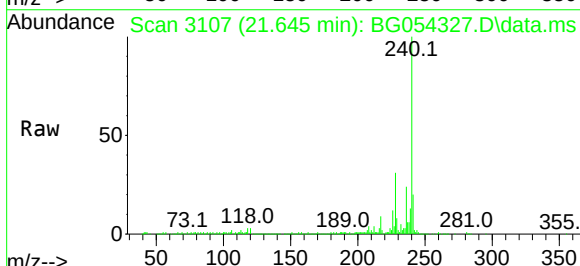
Tgt Ion:202 Resp: 27229  
Ion Ratio Lower Upper  
202 100  
101 4.1 0.0 26.9  
203 19.2 0.0 37.2

Manual Integrations  
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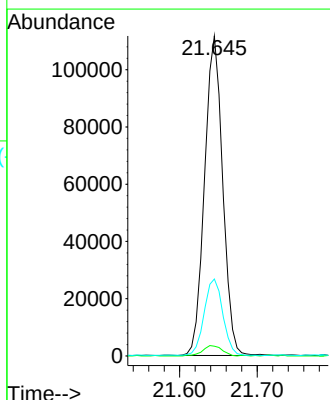
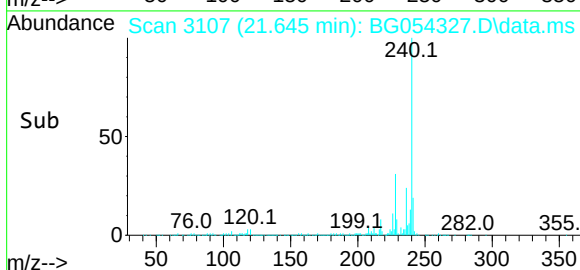
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022

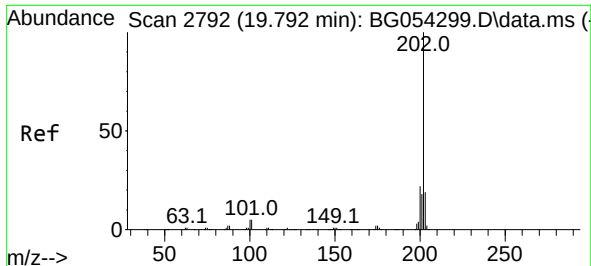


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.645 min Scan# 3107  
Delta R.T. 0.002 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



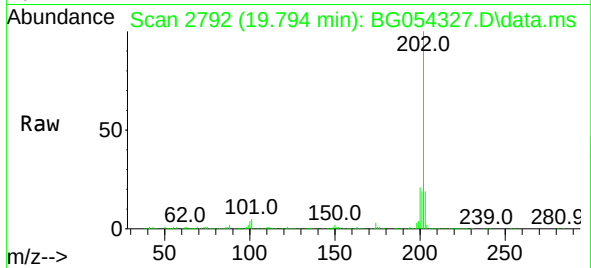
Tgt Ion:240 Resp: 181121  
Ion Ratio Lower Upper  
240 100  
120 3.1 4.6 7.0#  
236 24.0 20.2 30.4





#78  
 Pyrene  
 Concen: 26.639 ng  
 RT: 19.794 min Scan# 21  
 Delta R.T. 0.002 min  
 Lab File: BG054327.D  
 Acq: 20 Jul 2022 14:35

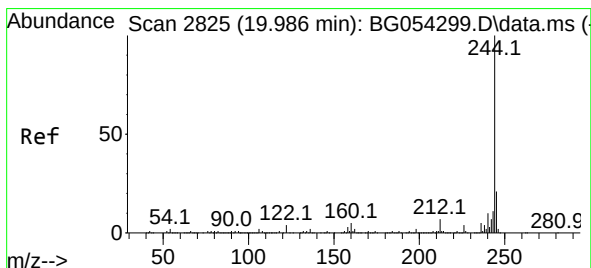
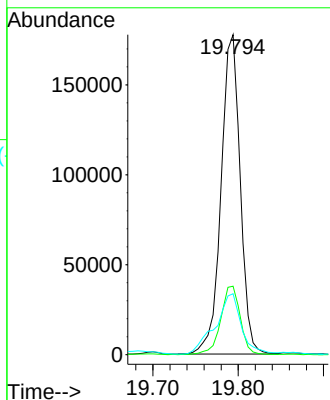
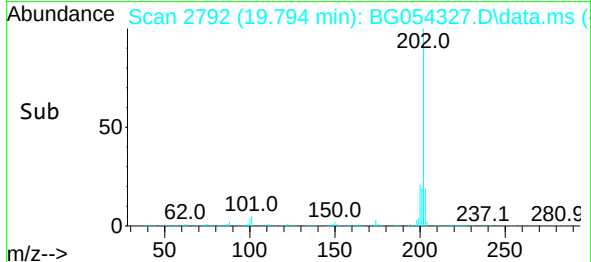
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1



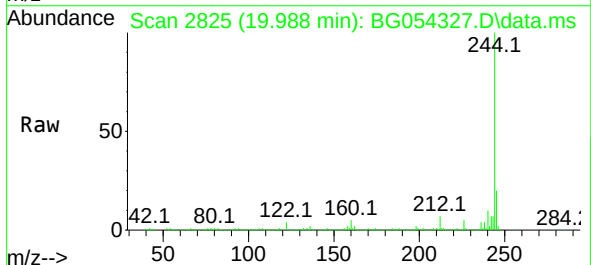
Tgt Ion:202 Resp: 27684  
 Ion Ratio Lower Upper  
 202 100  
 200 21.4 16.6 24.8  
 203 19.1 14.6 21.8

Manual Integrations  
 APPROVED

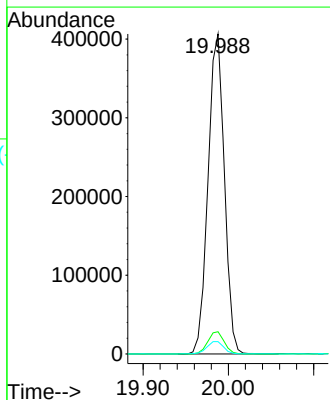
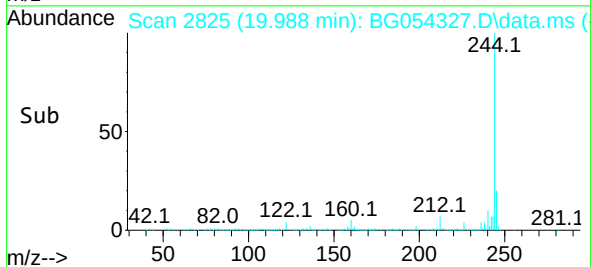
Reviewed By :Christian Giraldo 07/21/2022  
 Supervised By :Jagrut Upadhyay 07/21/2022

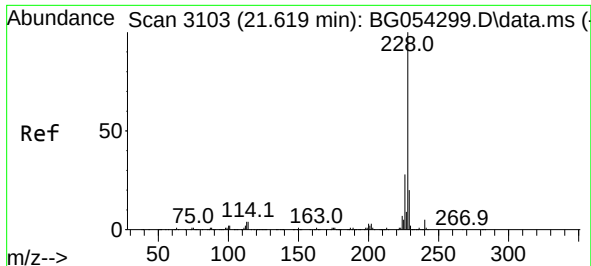


#79  
 Terphenyl-d14  
 Concen: 59.350 ng  
 RT: 19.988 min Scan# 2825  
 Delta R.T. 0.002 min  
 Lab File: BG054327.D  
 Acq: 20 Jul 2022 14:35



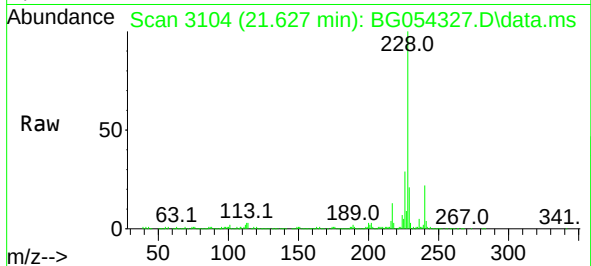
Tgt Ion:244 Resp: 541867  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 6.5 9.7  
 122 3.9 5.0 7.4#





#81  
Benzo(a)anthracene  
Concen: 23.697 ng  
RT: 21.627 min Scan# 3104  
Delta R.T. 0.008 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

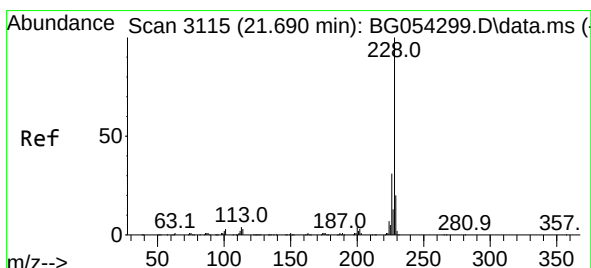
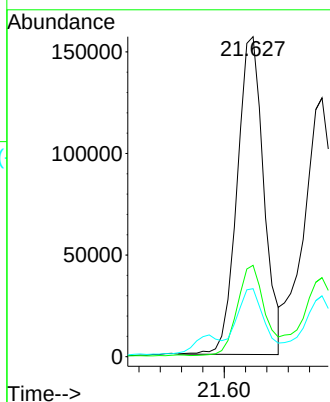
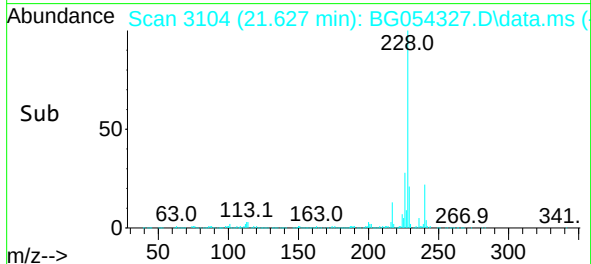
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



Tgt Ion:228 Resp: 272458  
Ion Ratio Lower Upper  
228 100  
226 28.5 21.6 32.4  
229 21.3 16.2 24.2

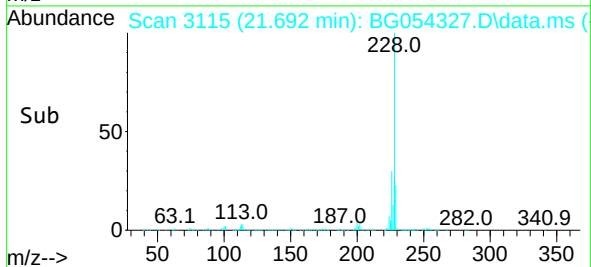
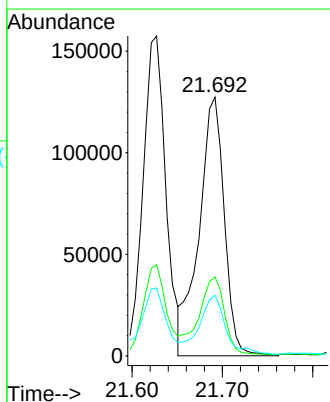
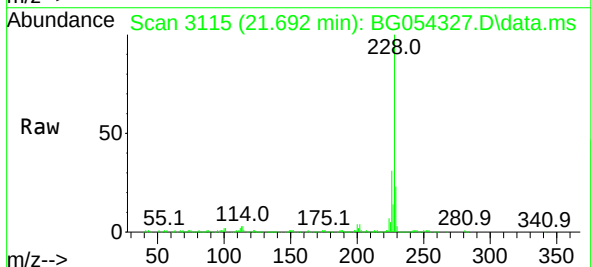
Manual Integrations  
APPROVED

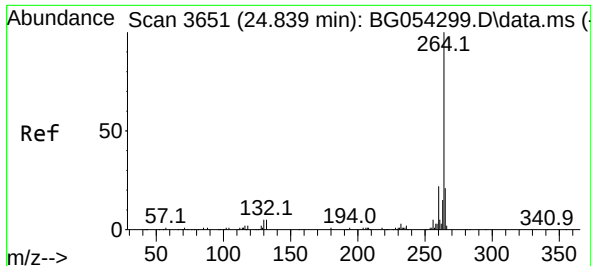
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022



#83  
Chrysene  
Concen: 22.836 ng m  
RT: 21.692 min Scan# 3115  
Delta R.T. 0.002 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

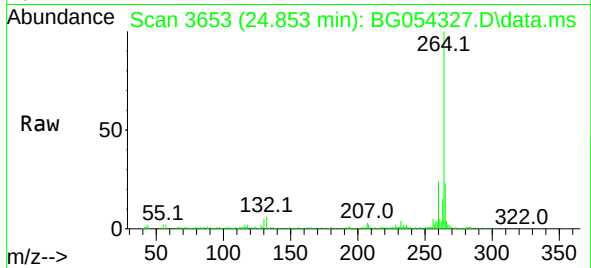
Tgt Ion:228 Resp: 248052  
Ion Ratio Lower Upper  
228 100  
226 30.6 23.4 35.2  
229 23.5 15.5 23.3#





#86  
 Perylene-d12  
 Concen: 20.000 ng  
 RT: 24.853 min Scan# 30  
 Delta R.T. 0.014 min  
 Lab File: BG054327.D  
 Acq: 20 Jul 2022 14:35

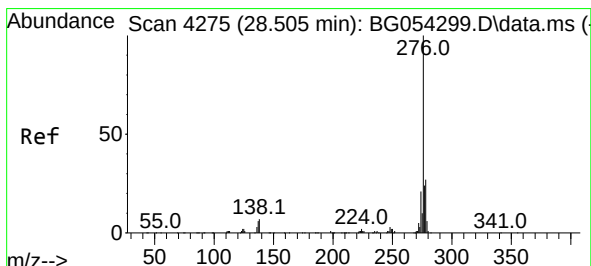
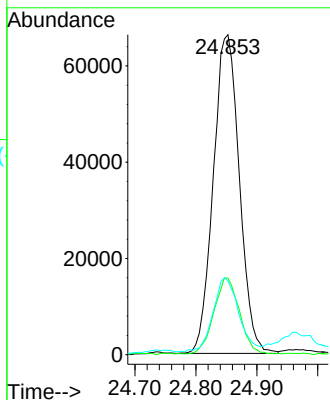
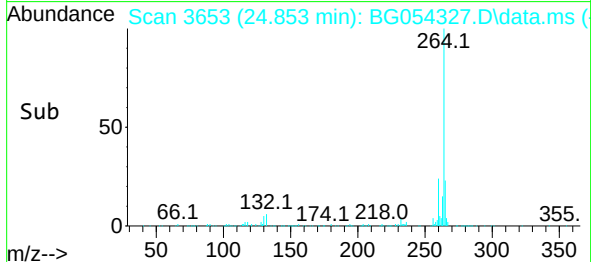
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1



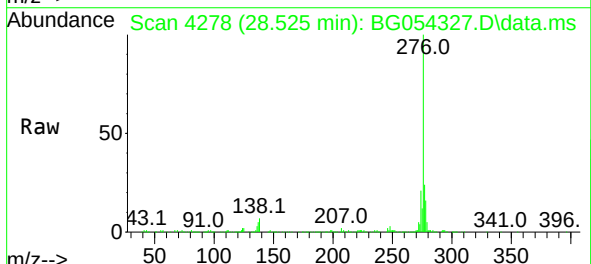
Tgt Ion:264 Resp: 19694  
 Ion Ratio Lower Upper  
 264 100  
 260 23.9 19.0 28.6  
 265 23.1 17.4 26.2

Manual Integrations  
 APPROVED

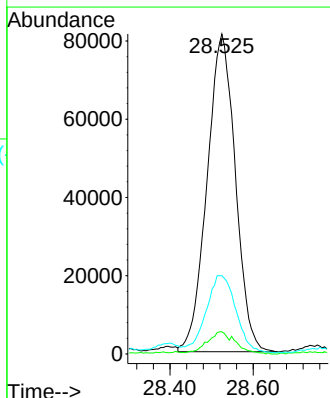
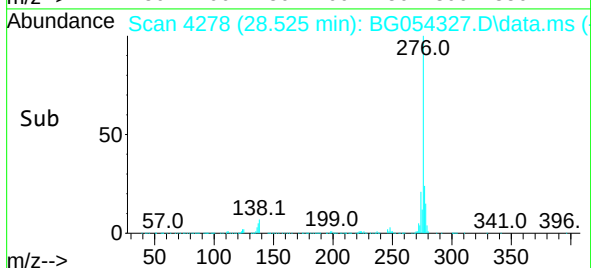
Reviewed By :Christian Giraldo 07/21/2022  
 Supervised By :Jagrut Upadhyay 07/21/2022

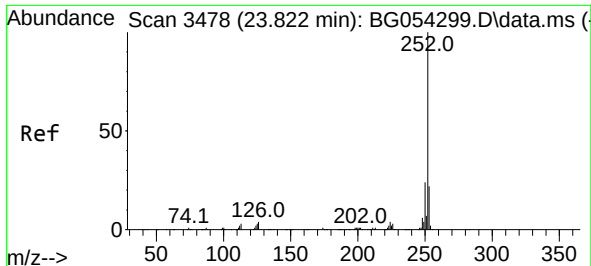


#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 25.653 ng  
 RT: 28.525 min Scan# 4278  
 Delta R.T. 0.020 min  
 Lab File: BG054327.D  
 Acq: 20 Jul 2022 14:35



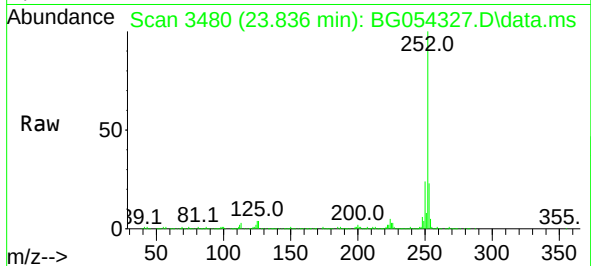
Tgt Ion:276 Resp: 384345  
 Ion Ratio Lower Upper  
 276 100  
 138 7.0 5.0 7.4  
 277 25.6 20.3 30.5





#88  
Benzo(b)fluoranthene  
Concen: 40.467 ng  
RT: 23.836 min Scan# 3478  
Delta R.T. 0.014 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

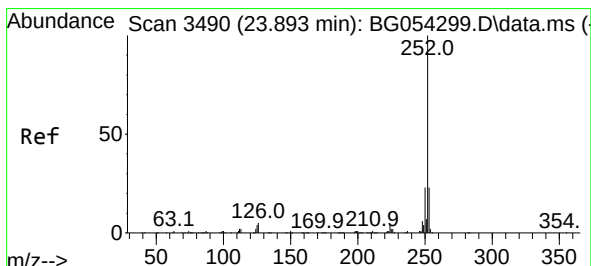
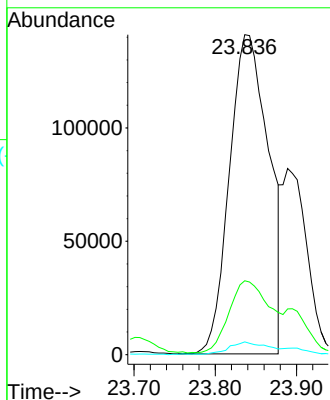
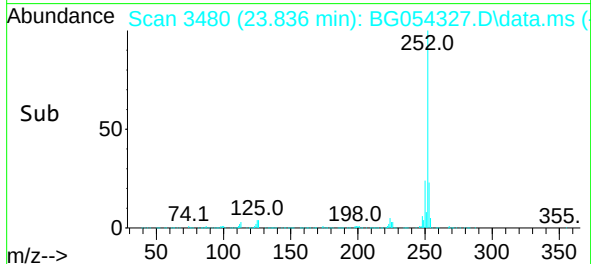
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



Tgt Ion:252 Resp: 471314  
Ion Ratio Lower Upper  
252 100  
253 23.1 18.0 27.0  
125 4.0 4.6 6.8

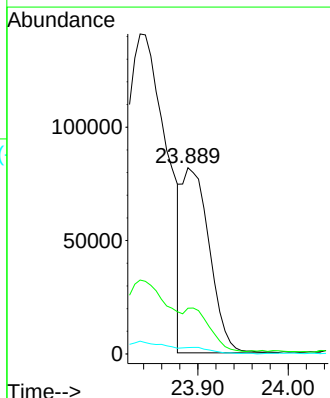
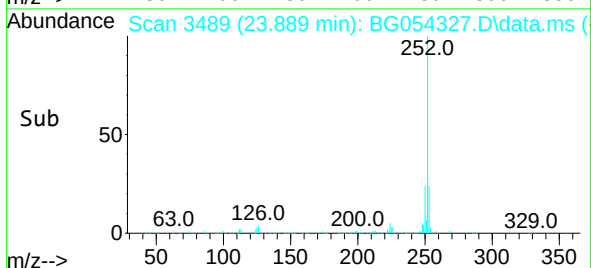
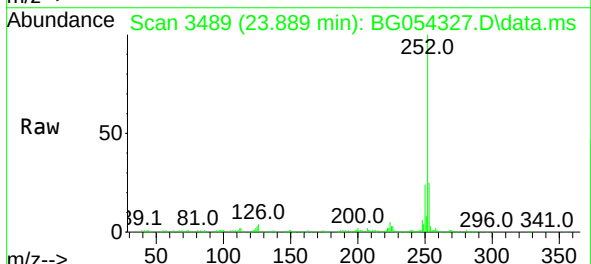
Manual Integrations  
APPROVED

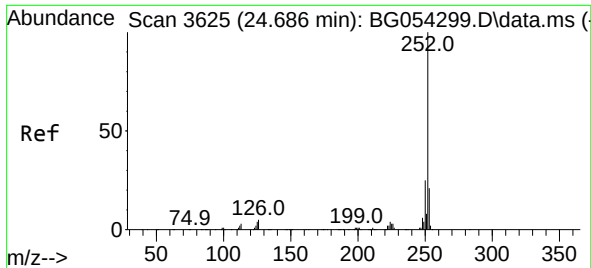
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022



#89  
Benzo(k)fluoranthene  
Concen: 14.976 ng m  
RT: 23.889 min Scan# 3489  
Delta R.T. -0.004 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

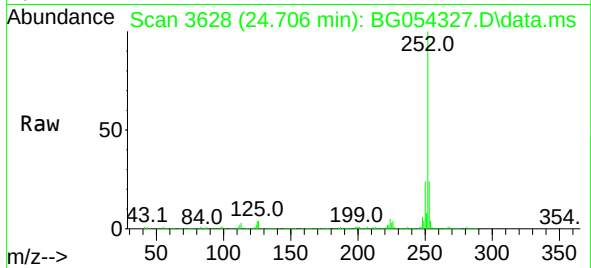
Tgt Ion:252 Resp: 173588  
Ion Ratio Lower Upper  
252 100  
253 24.6 18.4 27.6  
125 3.5 4.8 7.2





#90  
Benzo(a)pyrene  
Concen: 41.838 ng m  
RT: 24.706 min Scan# 30  
Delta R.T. 0.020 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35

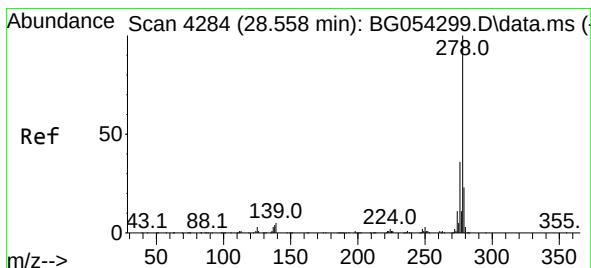
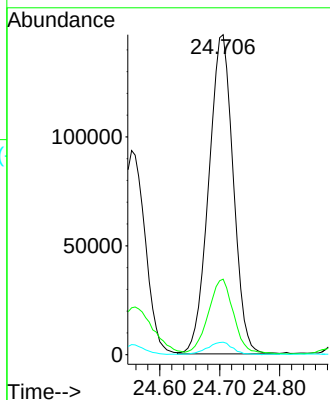
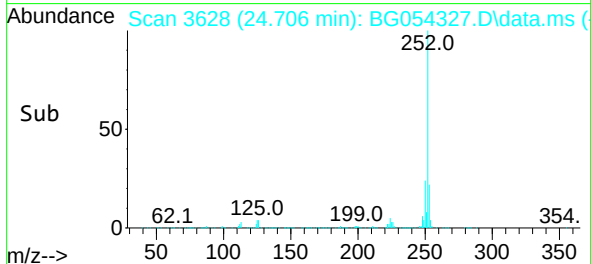
Instrument :  
BNA\_G  
ClientSampleId :  
TP-1



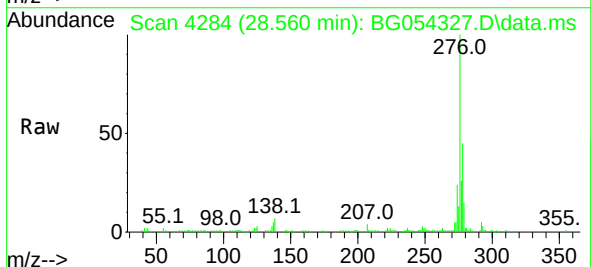
Tgt Ion:252 Resp: 41614  
Ion Ratio Lower Upper  
252 100  
253 23.6 17.8 26.8  
125 3.9 4.3 6.5

Manual Integrations  
APPROVED

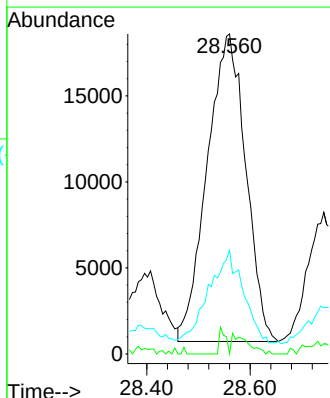
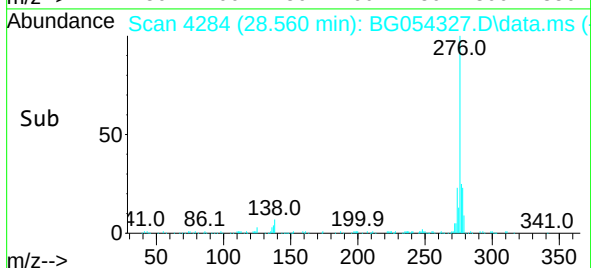
Reviewed By :Christian Giraldo 07/21/2022  
Supervised By :Jagrut Upadhyay 07/21/2022

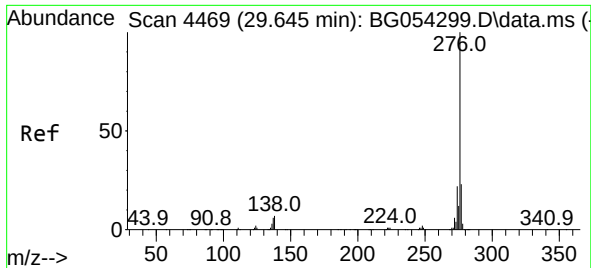


#91  
Dibenzo(a,h)anthracene  
Concen: 7.499 ng  
RT: 28.560 min Scan# 4284  
Delta R.T. 0.002 min  
Lab File: BG054327.D  
Acq: 20 Jul 2022 14:35



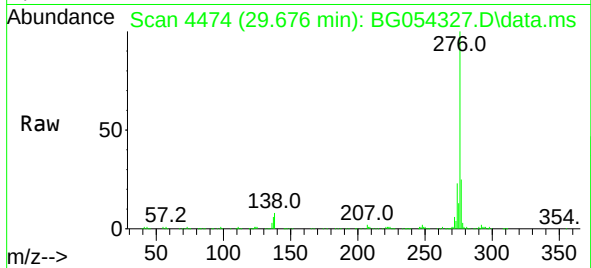
Tgt Ion:278 Resp: 92382  
Ion Ratio Lower Upper  
278 100  
139 0.0 7.2 10.8#  
279 32.4 18.6 27.8#





#92  
 Benzo(g,h,i)perylene  
 Concen: 32.568 ng  
 RT: 29.676 min Scan# 44  
 Delta R.T. 0.031 min  
 Lab File: BG054327.D  
 Acq: 20 Jul 2022 14:35

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-1



Tgt Ion:276 Resp: 395998  
 Ion Ratio Lower Upper  
 276 100  
 277 24.6 17.3 25.9  
 138 7.6 9.6 14.4

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 07/21/2022  
 Supervised By :Jagrut Upadhyay 07/21/2022

