

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091522\  
 Data File : BG054961.D  
 Acq On : 15 Sep 2022 18:17  
 Operator : CG/JU  
 Sample : N4634-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 WC-1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/16/2022  
 Supervised By : Jagrut Upadhyay 09/16/2022

Quant Time: Sep 16 05:31:03 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 15 03:14:10 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.126  | 152  | 38531    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.952 | 136  | 159254   | 20.000  | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.765 | 164  | 112950   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.515 | 188  | 243918   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.804 | 240  | 229853   | 20.000  | ng    | -0.01    |
| 86) Perylene-d12            | 25.177 | 264  | 244837   | 20.000  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.670  | 112  | 232353   | 105.009 | ng    | 0.00     |
| 7) Phenol-d6                | 7.286  | 99   | 315272   | 104.186 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.301  | 82   | 188480   | 62.130  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.258 | 330  | 145015   | 102.747 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.385 | 172  | 497744   | 66.234  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.112 | 244  | 731031   | 63.017  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.556 | 178  | 30952    | 2.382   | ng    | 97       |
| 75) Fluoranthene            | 19.566 | 202  | 99425    | 6.290   | ng    | 96       |
| 78) Pyrene                  | 19.924 | 202  | 98216    | 6.128   | ng    | 97       |
| 81) Benzo(a)anthracene      | 21.787 | 228  | 52524    | 3.370   | ng    | 98       |
| 83) Chrysene                | 21.851 | 228  | 61283m   | 4.113   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 29.066 | 276  | 53178    | 2.861   | ng    | # 94     |
| 88) Benzo(b)fluoranthene    | 24.102 | 252  | 92893    | 6.048   | ng    | 100      |
| 89) Benzo(k)fluoranthene    | 24.166 | 252  | 35176m   | 2.276   | ng    |          |
| 90) Benzo(a)pyrene          | 25.012 | 252  | 62913    | 4.794   | ng    | 99       |
| 92) Benzo(g,h,i)perylene    | 30.277 | 276  | 55962    | 3.658   | ng    | # 95     |
| -----                       |        |      |          |         |       |          |

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

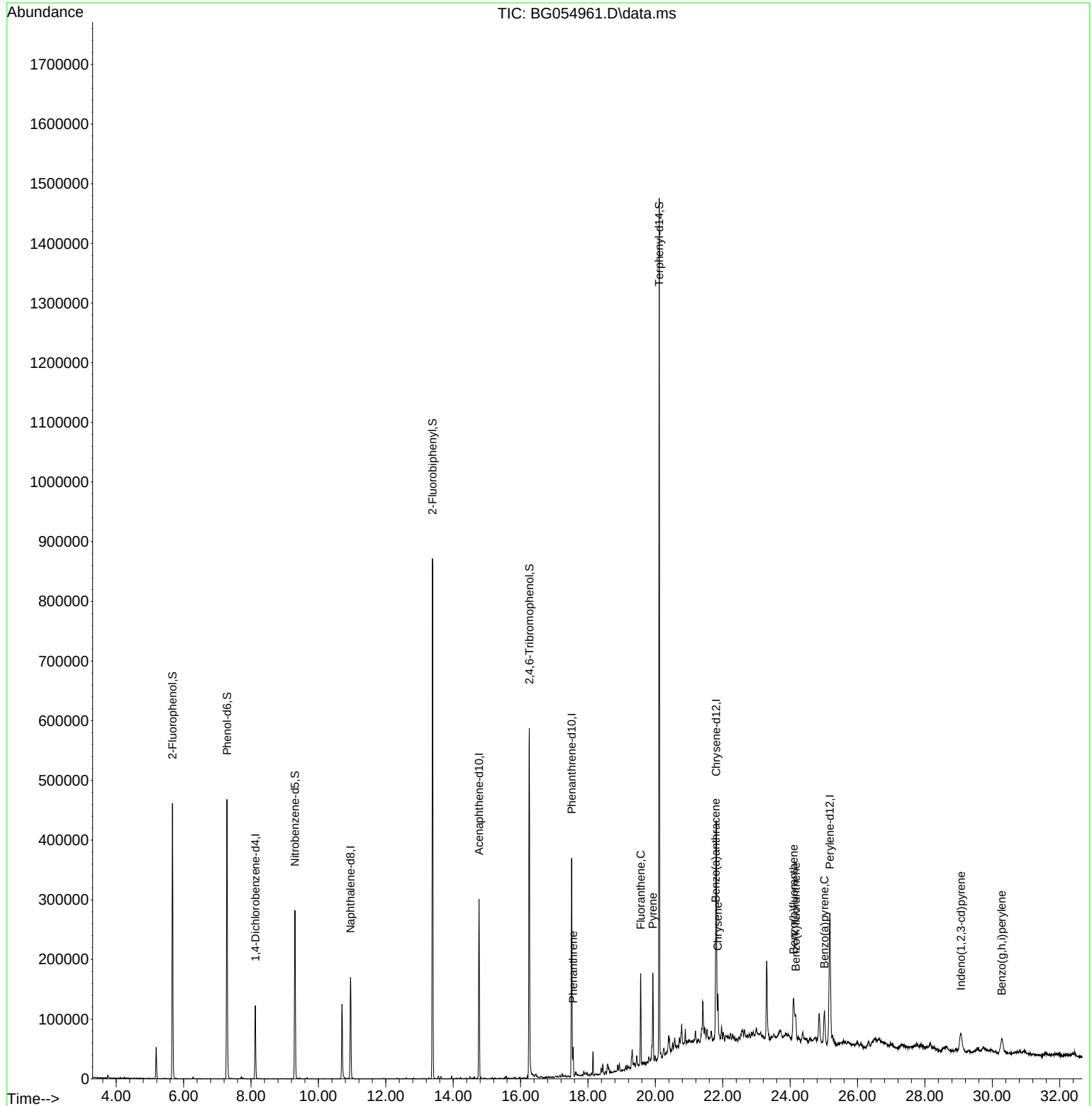
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091522\  
Data File : BG054961.D  
Acq On : 15 Sep 2022 18:17  
Operator : CG/JU  
Sample : N4634-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

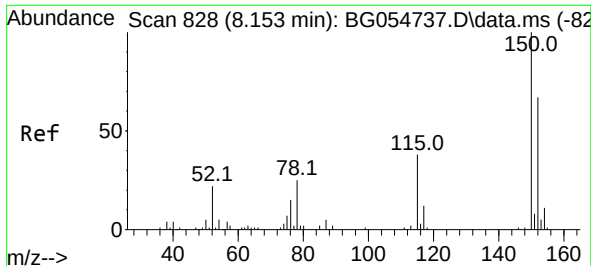
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1

Quant Time: Sep 16 05:31:03 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 15 03:14:10 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

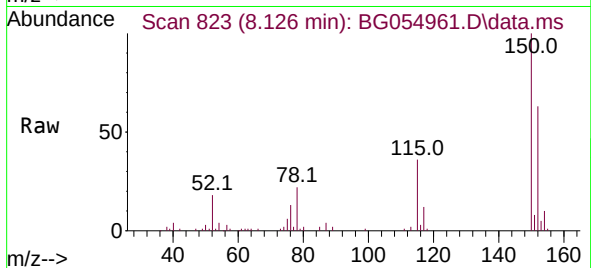
Reviewed By : Christian Giraldo 09/16/2022  
Supervised By : Jagrut Upadhyay 09/16/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.126 min Scan# 81  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

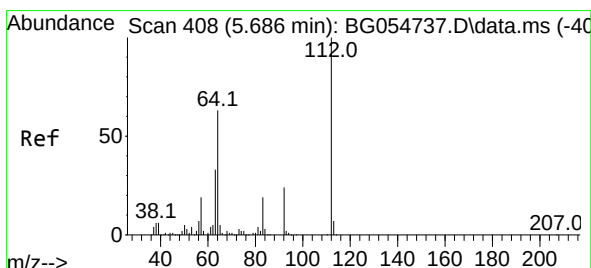
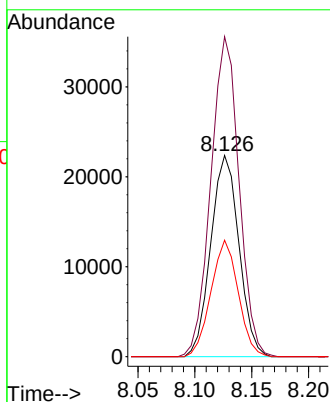
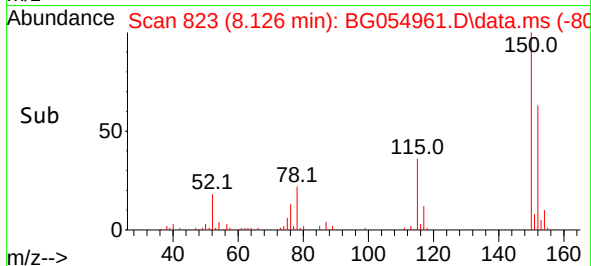
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:152 Resp: 3853  
Ion Ratio Lower Upper  
152 100  
150 159.0 125.2 187.8  
115 57.9 47.9 71.9

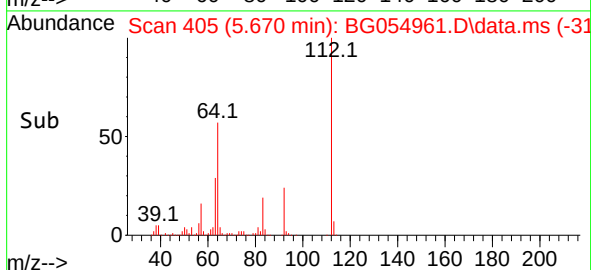
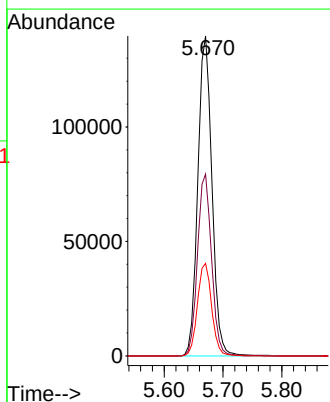
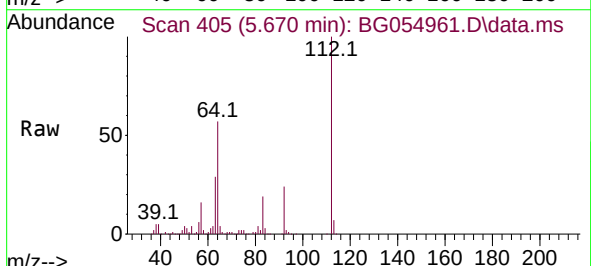
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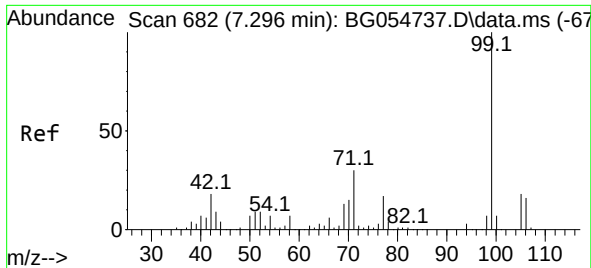
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022



#5  
2-Fluorophenol  
Concen: 105.009 ng  
RT: 5.670 min Scan# 405  
Delta R.T. -0.003 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

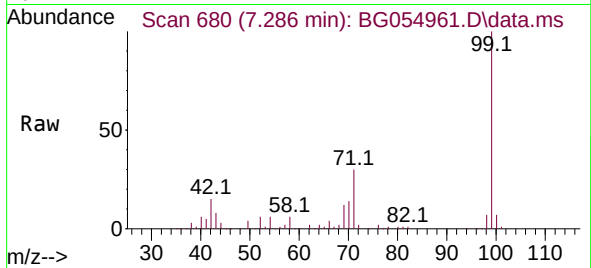
Tgt Ion:112 Resp: 232353  
Ion Ratio Lower Upper  
112 100  
64 56.8 49.3 73.9  
63 28.9 26.3 39.5





#7  
Phenol-d6  
Concen: 104.186 ng  
RT: 7.286 min Scan# 681  
Delta R.T. -0.003 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

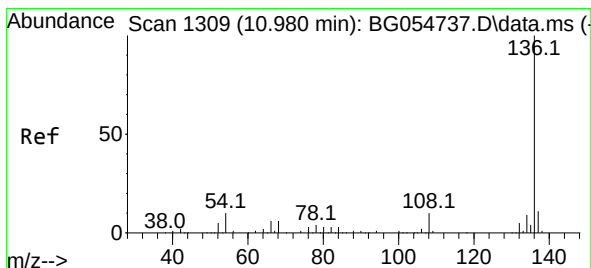
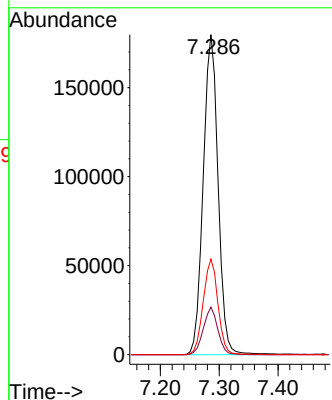
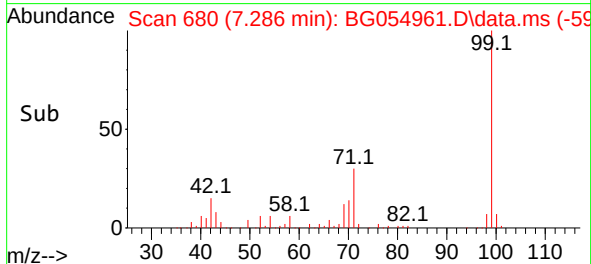
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



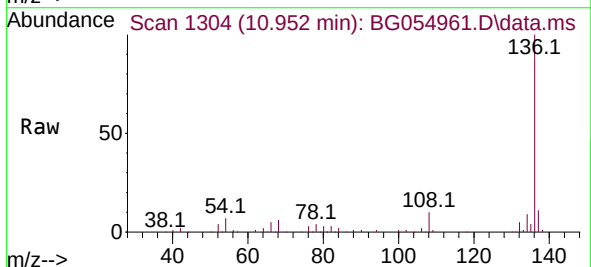
Tgt Ion: 99 Resp: 315272  
Ion Ratio Lower Upper  
99 100  
42 14.8 14.6 22.0  
71 29.8 24.6 37.0

Manual Integrations  
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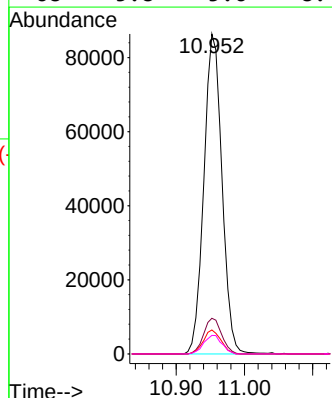
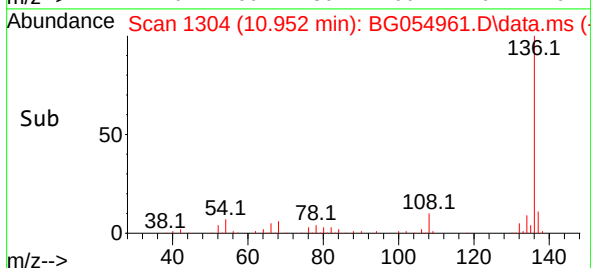
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022

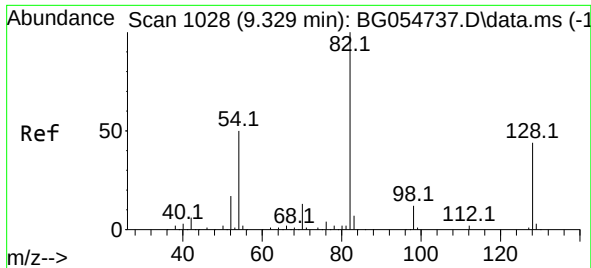


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.952 min Scan# 1304  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17



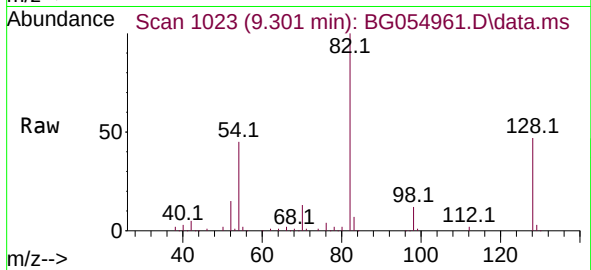
Tgt Ion:136 Resp: 159254  
Ion Ratio Lower Upper  
136 100  
137 11.1 9.2 13.8  
54 7.5 7.7 11.5#  
68 5.8 5.6 8.4





#23  
Nitrobenzene-d5  
Concen: 62.130 ng  
RT: 9.301 min Scan# 1023  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

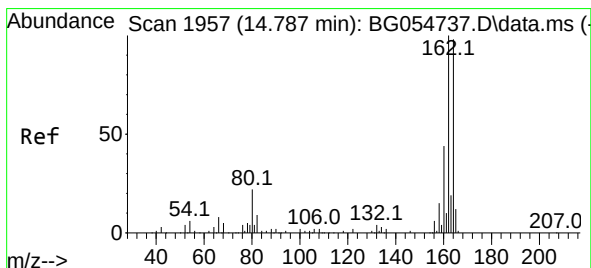
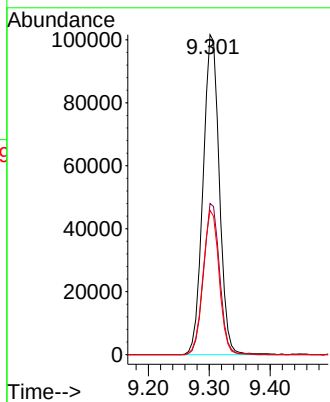
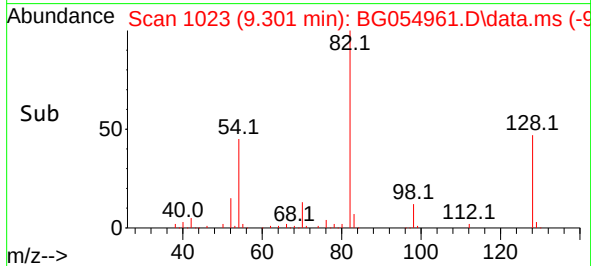
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion: 82 Resp: 188480  
Ion Ratio Lower Upper  
82 100  
128 47.2 32.2 48.2  
54 45.1 41.4 62.0

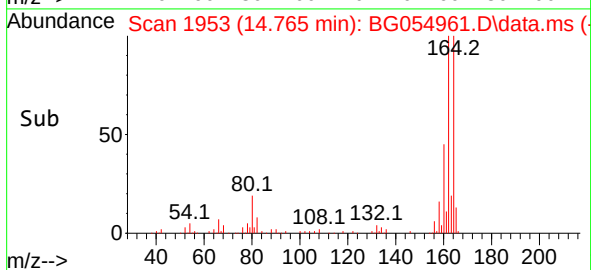
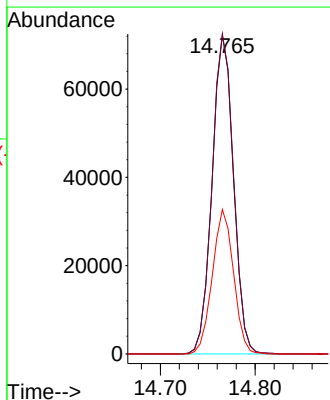
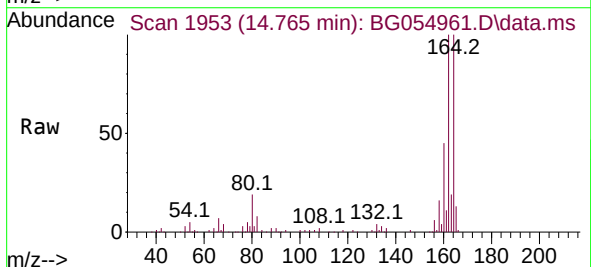
Manual Integrations  
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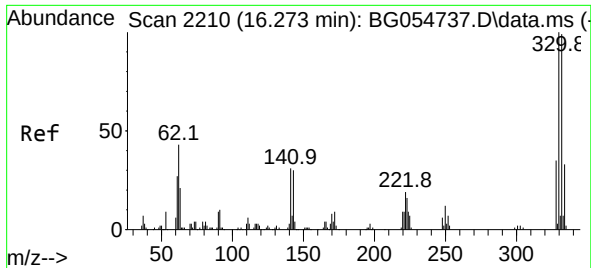
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.765 min Scan# 1953  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

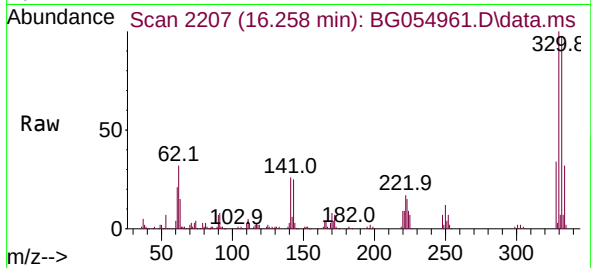
Tgt Ion:164 Resp: 112950  
Ion Ratio Lower Upper  
164 100  
162 100.4 83.0 124.4  
160 45.3 38.0 57.0





#42  
2,4,6-Tribromophenol  
Concen: 102.747 ng  
RT: 16.258 min Scan# 2210  
Delta R.T. -0.003 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

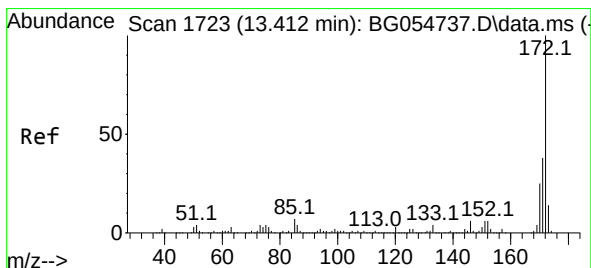
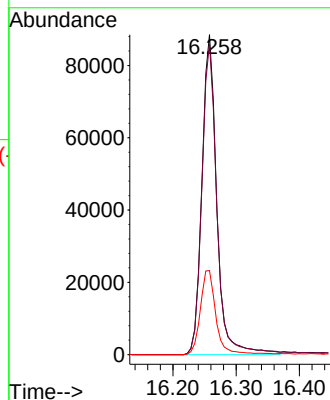
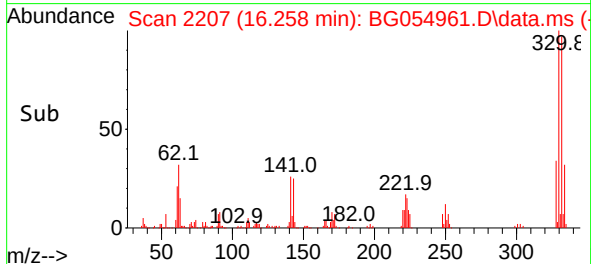
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



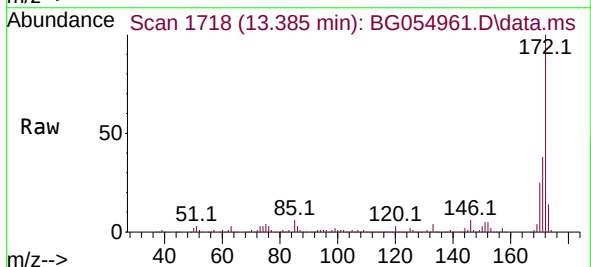
Tgt Ion: 330 Resp: 145015  
Ion Ratio Lower Upper  
330 100  
332 98.6 79.8 119.6  
141 27.7 26.8 40.2

Manual Integrations  
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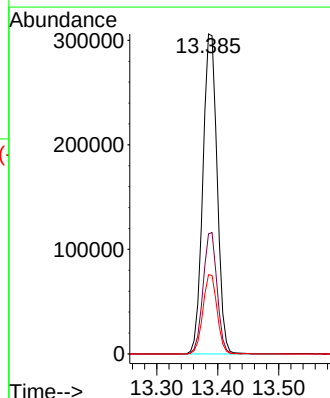
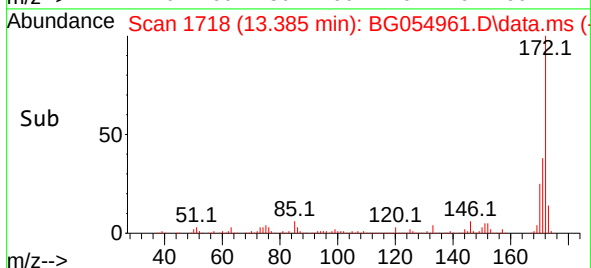
Reviewed By : Christian Giraldo 09/16/2022  
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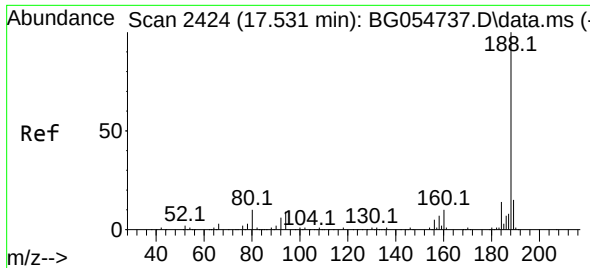


#45  
2-Fluorobiphenyl  
Concen: 66.234 ng  
RT: 13.385 min Scan# 1718  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17



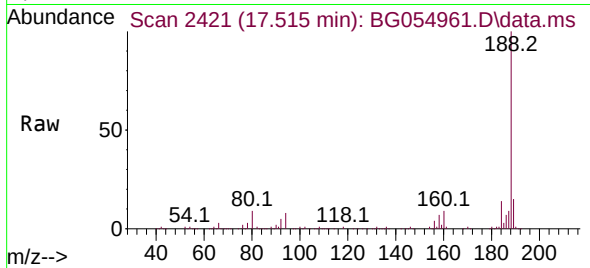
Tgt Ion: 172 Resp: 497744  
Ion Ratio Lower Upper  
172 100  
171 37.5 31.2 46.8  
170 24.7 20.6 30.8





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.515 min Scan# 2421  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

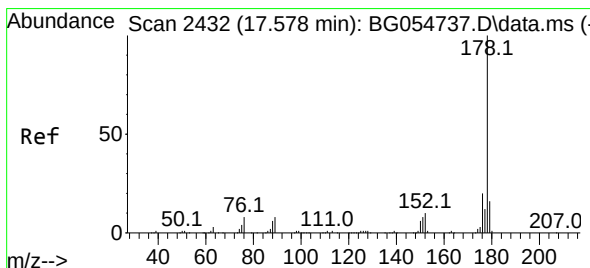
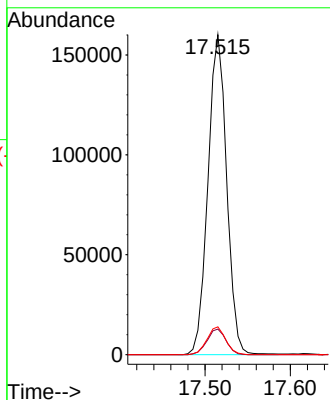
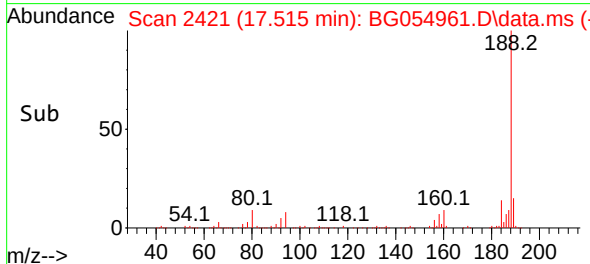
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



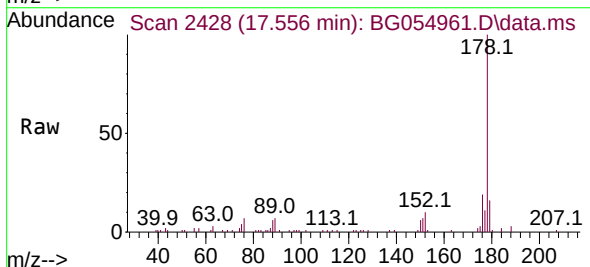
Tgt Ion:188 Resp: 243918  
Ion Ratio Lower Upper  
188 100  
94 8.0 7.0 10.4  
80 8.7 7.9 11.9

Manual Integrations  
APPROVED

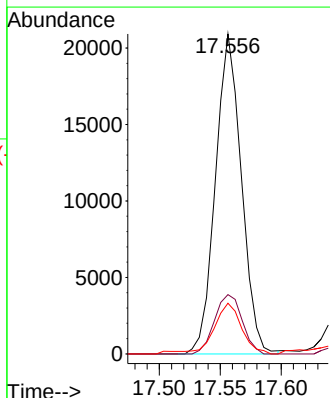
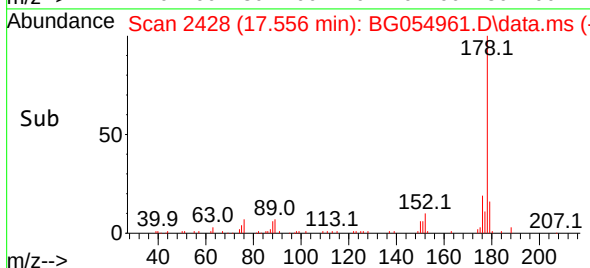
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022

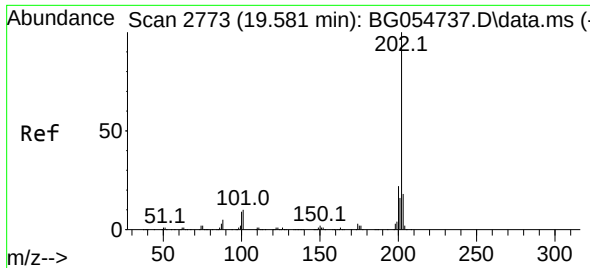


#71  
Phenanthrene  
Concen: 2.382 ng  
RT: 17.556 min Scan# 2428  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17



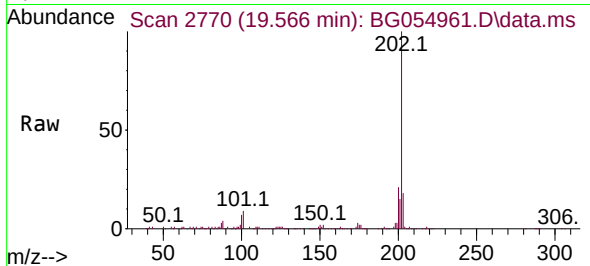
Tgt Ion:178 Resp: 30952  
Ion Ratio Lower Upper  
178 100  
176 18.5 16.6 25.0  
179 15.8 12.8 19.2





#75  
Fluoranthene  
Concen: 6.290 ng  
RT: 19.566 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

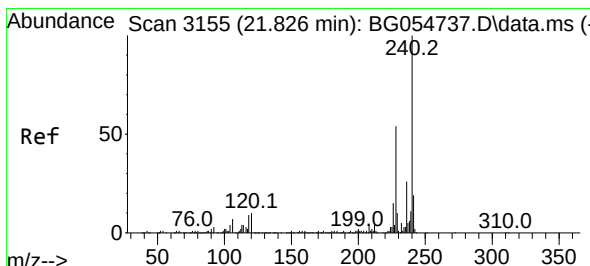
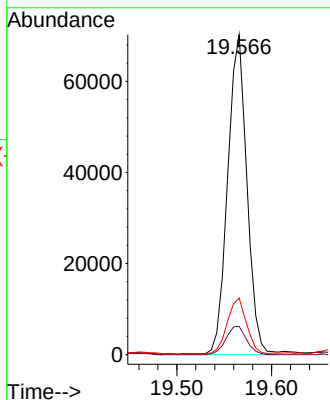
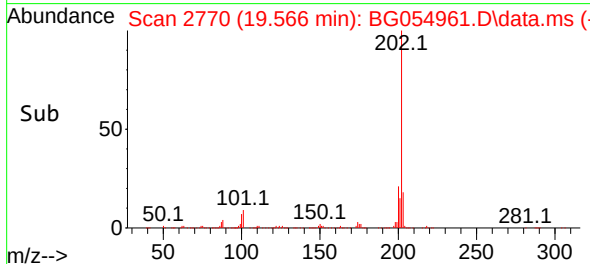
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:202 Resp: 99425  
Ion Ratio Lower Upper  
202 100  
101 8.8 0.0 31.4  
203 17.7 0.0 38.6

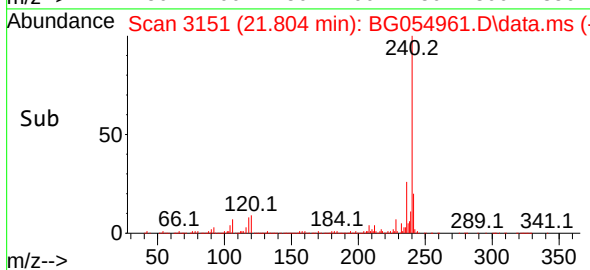
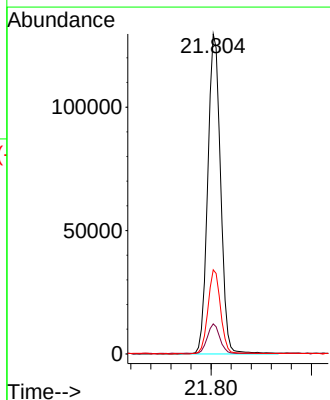
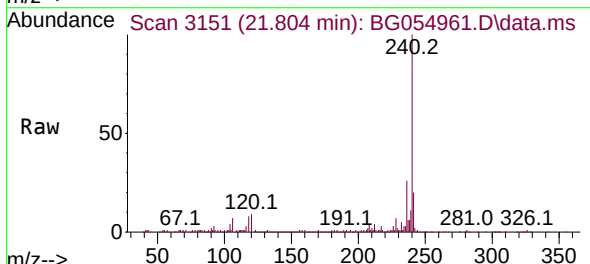
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Supervised By :Jagrut Upadhyay 09/16/2022

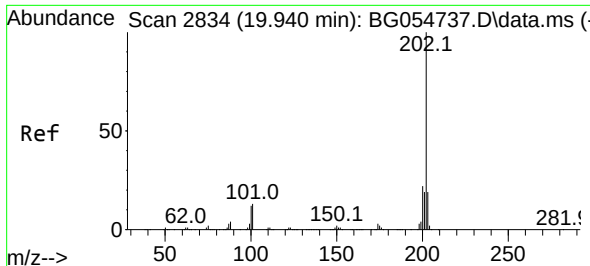


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.804 min Scan# 3151  
Delta R.T. -0.015 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

Tgt Ion:240 Resp: 229853  
Ion Ratio Lower Upper  
240 100  
120 9.4 8.2 12.4  
236 26.3 21.2 31.8

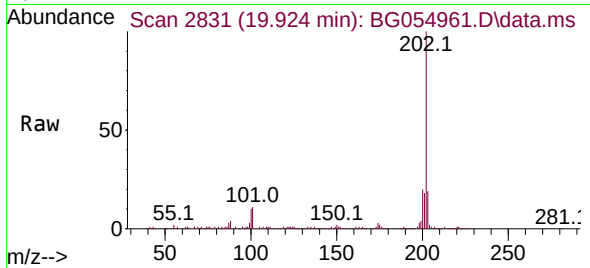






#78  
Pyrene  
Concen: 6.128 ng  
RT: 19.924 min Scan# 2831  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

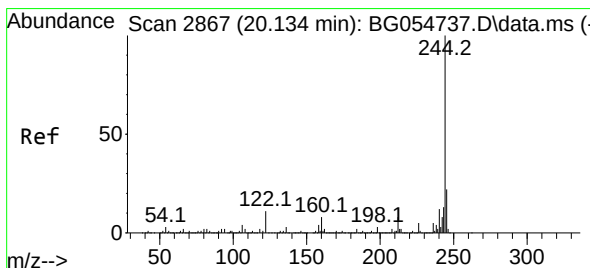
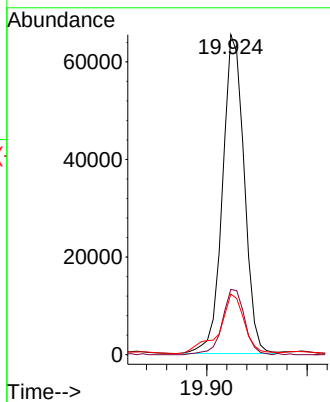
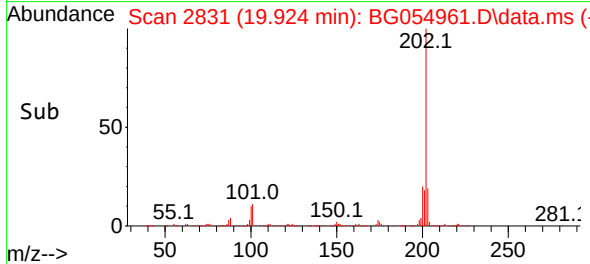
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



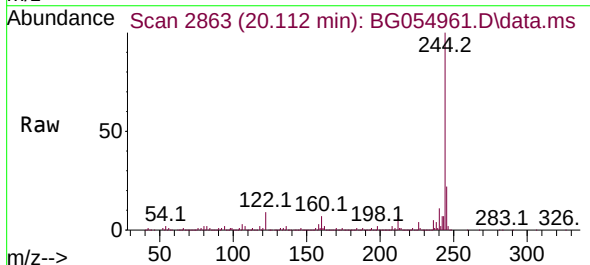
Tgt Ion:202 Resp: 98216  
Ion Ratio Lower Upper  
202 100  
200 20.4 17.8 26.6  
203 18.9 14.6 21.8

Manual Integrations  
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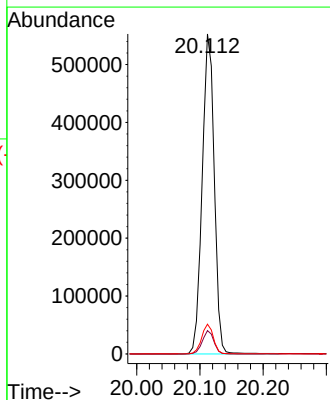
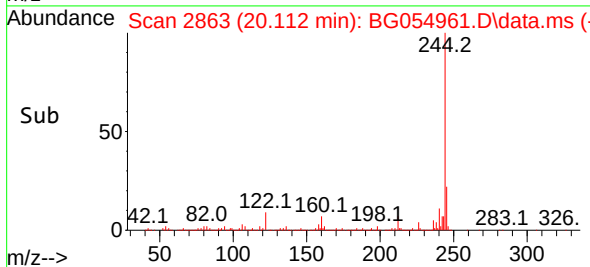
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022

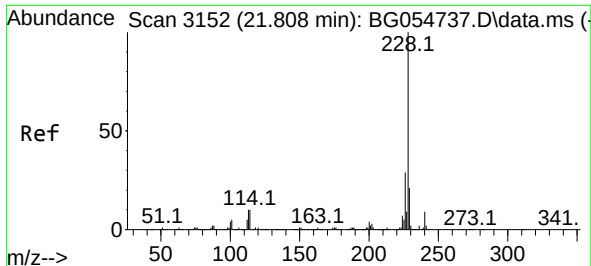


#79  
Terphenyl-d14  
Concen: 63.017 ng  
RT: 20.112 min Scan# 2863  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17



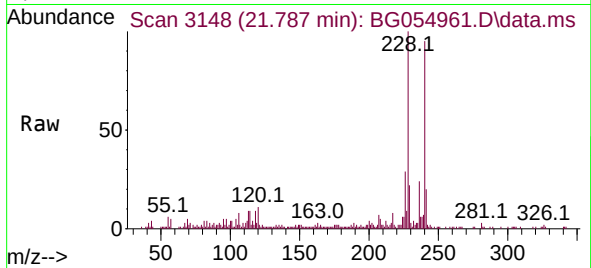
Tgt Ion:244 Resp: 731031  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.2 9.2  
122 9.3 9.0 13.6





#81  
Benzo(a)anthracene  
Concen: 3.370 ng  
RT: 21.787 min Scan# 3152  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

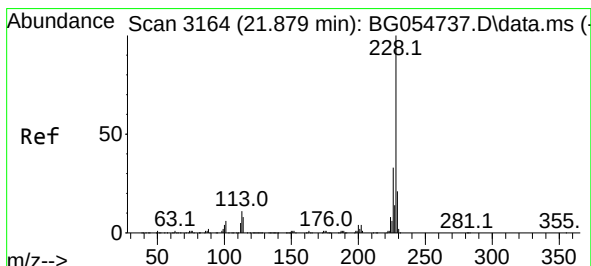
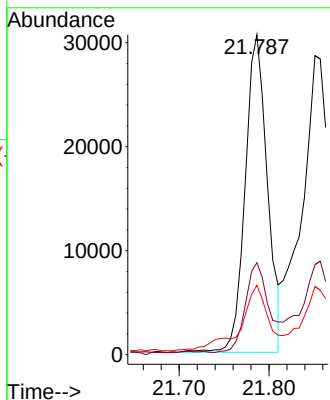
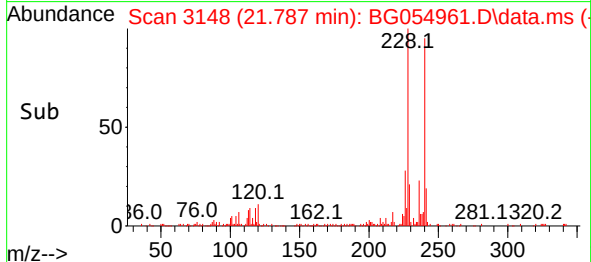
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:228 Resp: 52524  
Ion Ratio Lower Upper  
228 100  
226 28.7 23.4 35.2  
229 21.7 16.5 24.7

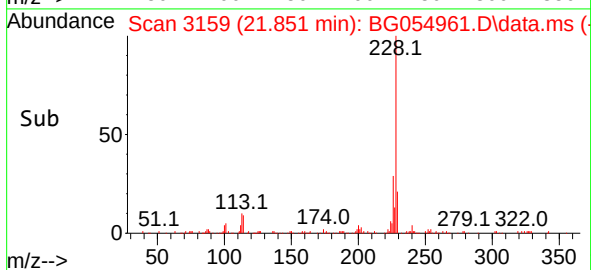
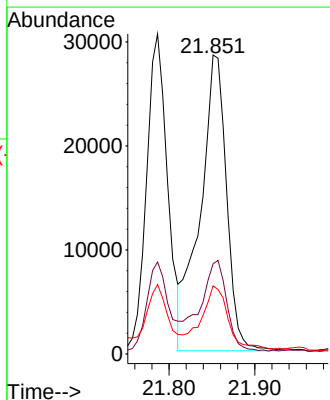
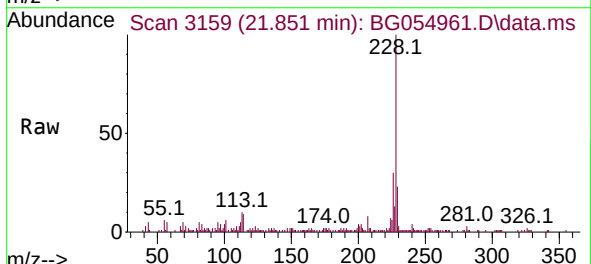
Manual Integrations  
APPROVED

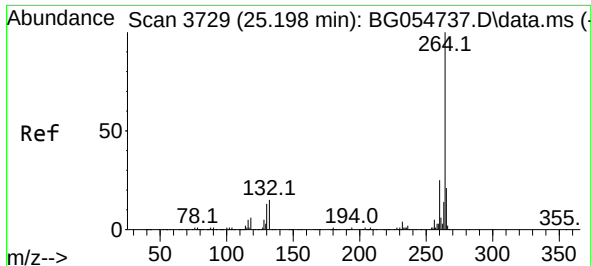
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022



#83  
Chrysene  
Concen: 4.113 ng m  
RT: 21.851 min Scan# 3159  
Delta R.T. -0.015 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

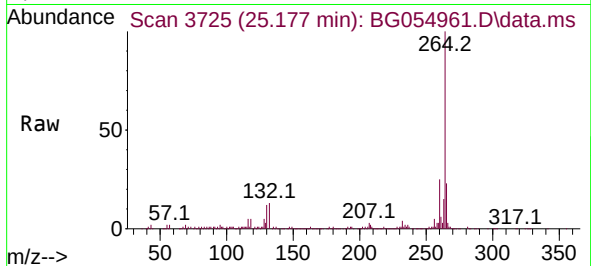
Tgt Ion:228 Resp: 61283  
Ion Ratio Lower Upper  
228 100  
226 30.1 25.5 38.3  
229 22.7 16.8 25.2





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.177 min Scan# 31  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

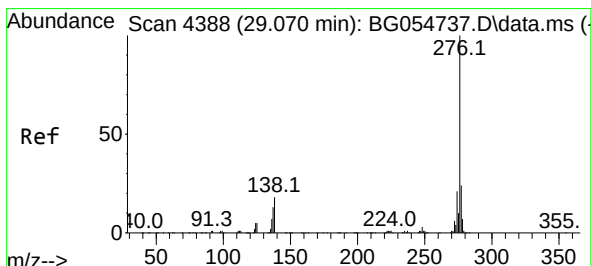
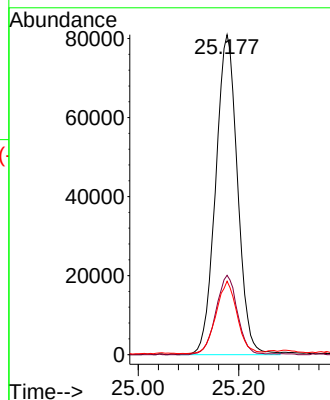
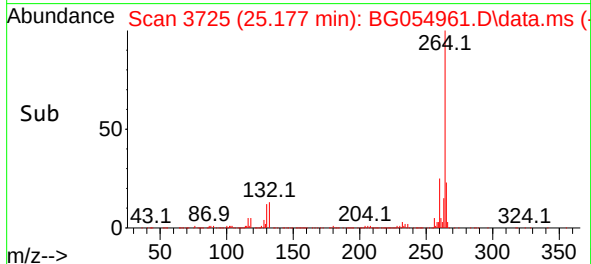
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:264 Resp: 24483  
Ion Ratio Lower Upper  
264 100  
260 24.8 19.9 29.9  
265 22.9 16.9 25.3

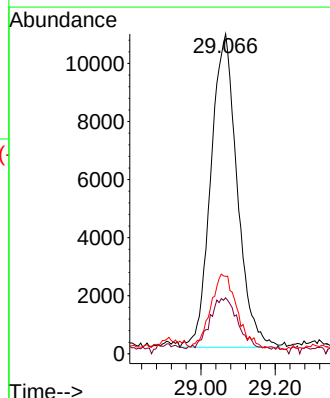
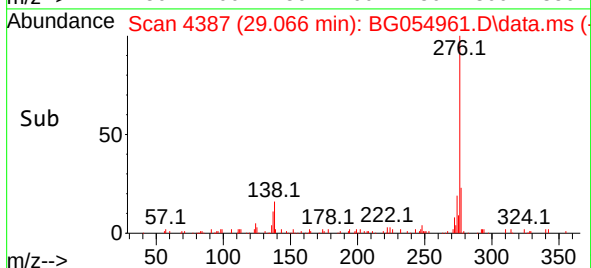
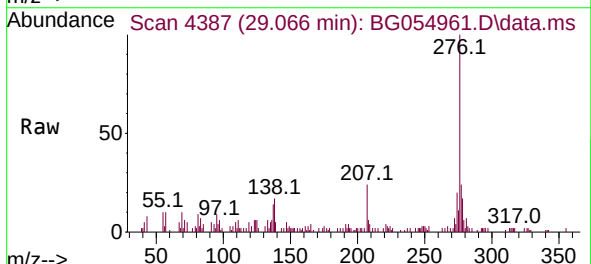
Manual Integrations  
APPROVED

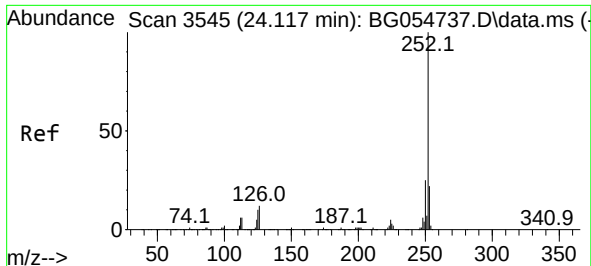
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.861 ng  
RT: 29.066 min Scan# 4387  
Delta R.T. -0.020 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

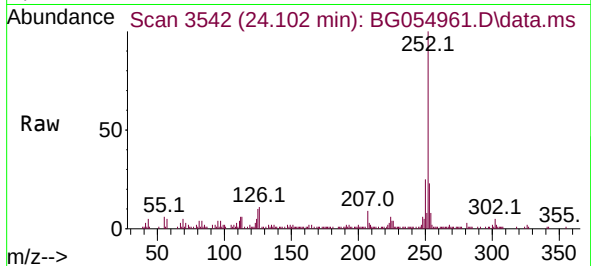
Tgt Ion:276 Resp: 53178  
Ion Ratio Lower Upper  
276 100  
138 19.1 12.0 18.0#  
277 23.4 20.2 30.4





#88  
Benzo(b)fluoranthene  
Concen: 6.048 ng  
RT: 24.102 min Scan# 3542  
Delta R.T. -0.009 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

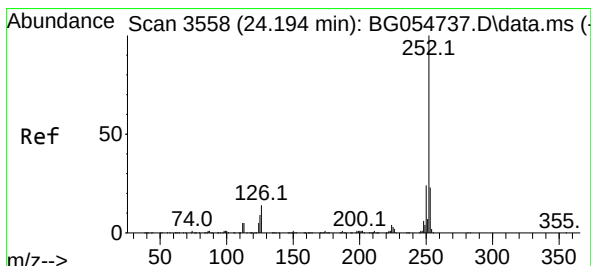
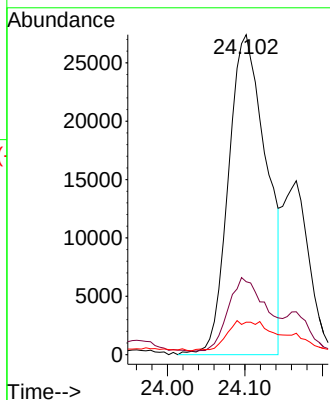
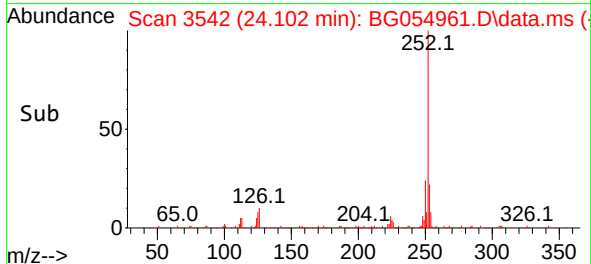
Instrument :  
BNA\_G  
ClientSampleId :  
WC-1



Tgt Ion:252 Resp: 92893  
Ion Ratio Lower Upper  
252 100  
253 22.8 18.0 27.0  
125 10.1 8.1 12.1

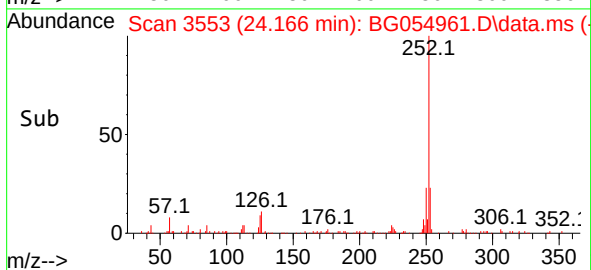
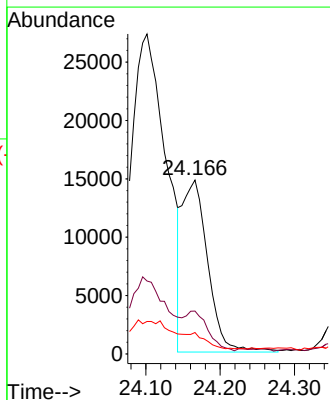
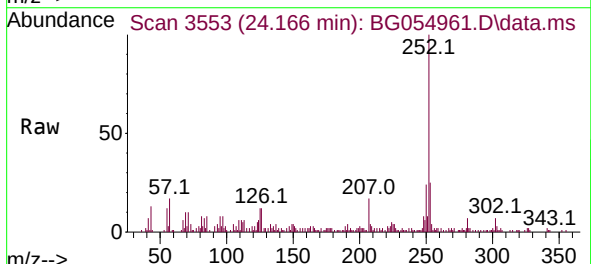
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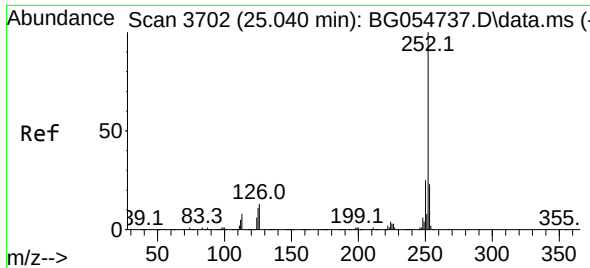
Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022



#89  
Benzo(k)fluoranthene  
Concen: 2.276 ng m  
RT: 24.166 min Scan# 3553  
Delta R.T. -0.015 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

Tgt Ion:252 Resp: 35176  
Ion Ratio Lower Upper  
252 100  
253 24.6 17.8 26.8  
125 12.3 8.2 12.4





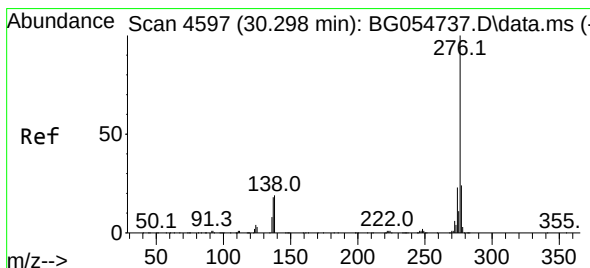
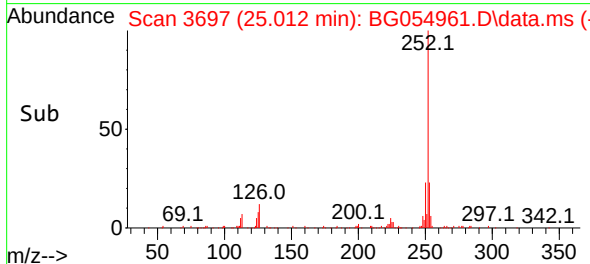
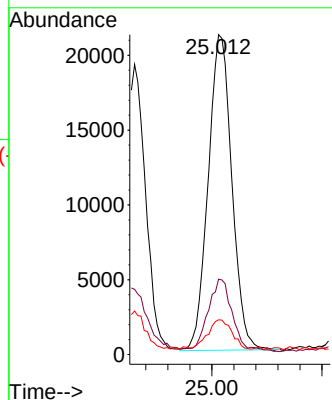
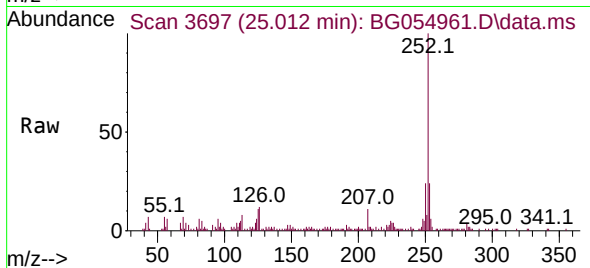
#90  
Benzo(a)pyrene  
Concen: 4.794 ng  
RT: 25.012 min Scan# 3697  
Delta R.T. -0.020 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

Instrument :  
BNA\_G  
ClientSampleId :  
WC-1

Tgt Ion:252 Resp: 62913  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.3 27.5  
125 10.9 8.8 13.2

Manual Integrations  
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Reviewed By :Christian Giraldo 09/16/2022  
Supervised By :Jagrut Upadhyay 09/16/2022



#92  
Benzo(g,h,i)perylene  
Concen: 3.658 ng  
RT: 30.277 min Scan# 4593  
Delta R.T. -0.032 min  
Lab File: BG054961.D  
Acq: 15 Sep 2022 18:17

Tgt Ion:276 Resp: 55962  
Ion Ratio Lower Upper  
276 100  
277 23.5 19.4 29.0  
138 16.0 16.6 25.0#

