

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090622\  
 Data File : BG054861.D  
 Acq On : 6 Sep 2022 21:24  
 Operator : CG/JU  
 Sample : N4451-01  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP1

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/07/2022  
 Supervised By : Jagrut Upadhyay 09/07/2022

Quant Time: Sep 07 05:01:14 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 25 17:50:55 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.153  | 152  | 55204    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.979 | 136  | 221007   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.787 | 164  | 137911   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.531 | 188  | 272966   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 21.826 | 240  | 249454   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 25.210 | 264  | 258191   | 20.000 | ng    | 0.01     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.697  | 112  | 305169   | 96.263 | ng    | 0.01     |
| 7) Phenol-d6                | 7.313  | 99   | 416892   | 96.159 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 9.328  | 82   | 255352   | 60.654 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.273 | 330  | 170432   | 98.899 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.412 | 172  | 621919   | 67.779 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.133 | 244  | 818672   | 65.026 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 17.578 | 178  | 88622    | 6.095  | ng    | 98       |
| 75) Fluoranthene            | 19.581 | 202  | 219882   | 12.430 | ng    | 98       |
| 78) Pyrene                  | 19.945 | 202  | 230960   | 13.278 | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.808 | 228  | 120684   | 7.135  | ng    | 97       |
| 83) Chrysene                | 21.878 | 228  | 124154   | 7.677  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 29.105 | 276  | 58345    | 2.977  | ng    | # 86     |
| 88) Benzo(b)fluoranthene    | 24.129 | 252  | 149192   | 9.211  | ng    | # 88     |
| 89) Benzo(k)fluoranthene    | 24.193 | 252  | 61661m   | 3.783  | ng    |          |
| 90) Benzo(a)pyrene          | 25.051 | 252  | 112321   | 8.117  | ng    | # 89     |
| 92) Benzo(g,h,i)perylene    | 30.333 | 276  | 54545m   | 3.381  | ng    |          |
| -----                       |        |      |          |        |       |          |

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

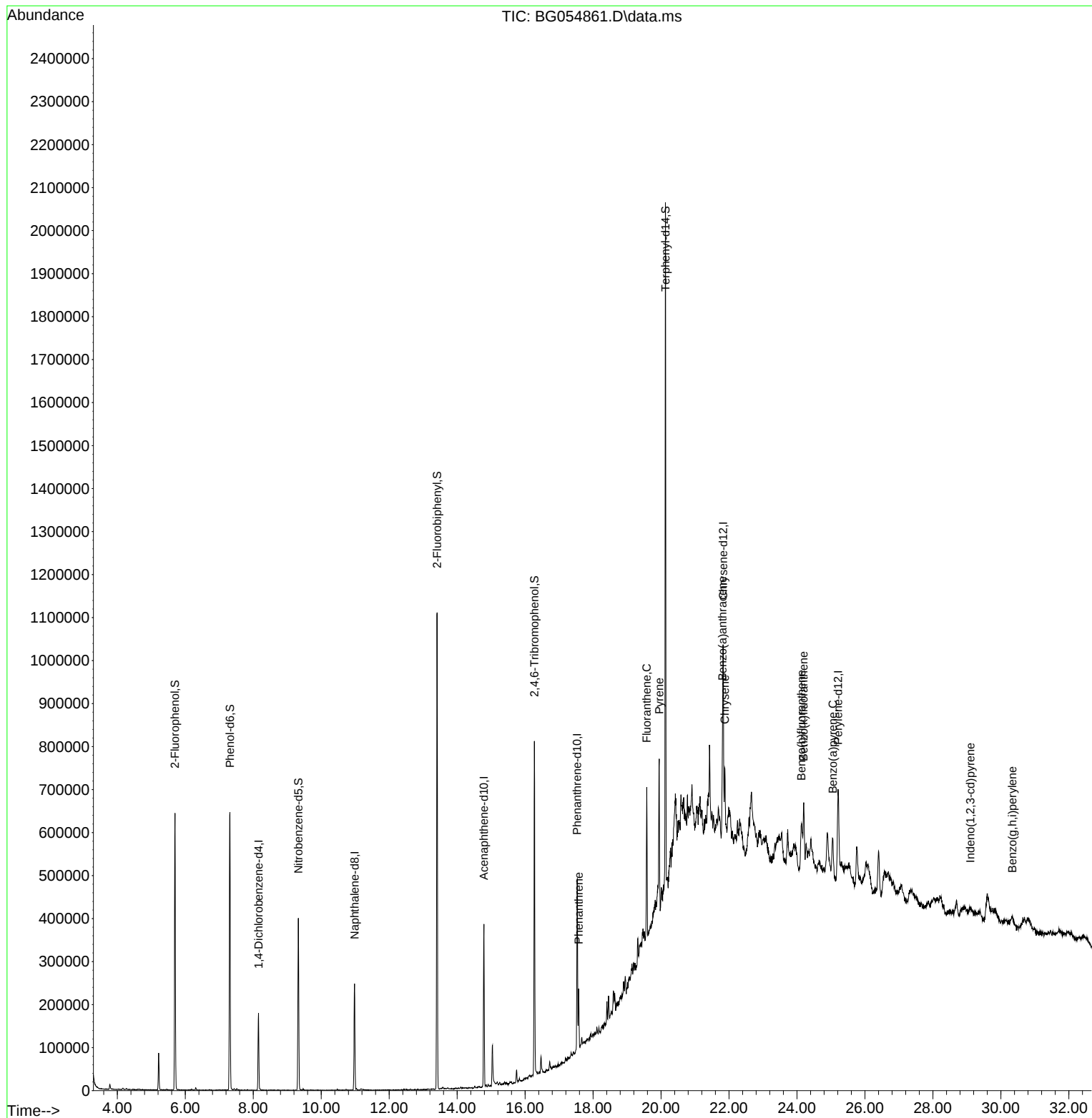
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG090622\  
Data File : BG054861.D  
Acq On : 6 Sep 2022 21:24  
Operator : CG/JU  
Sample : N4451-01  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

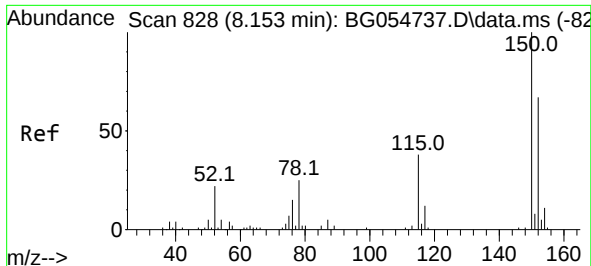
Instrument :  
BNA\_G  
ClientSampleId :  
TP1

Quant Time: Sep 07 05:01:14 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 25 17:50:55 2022  
Response via : Initial Calibration

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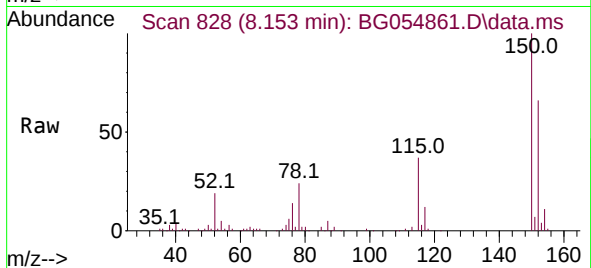
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.153 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

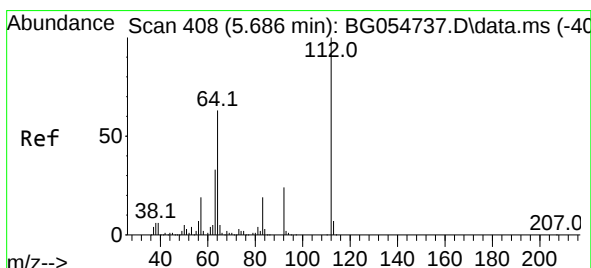
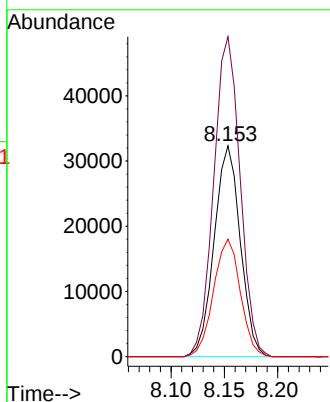
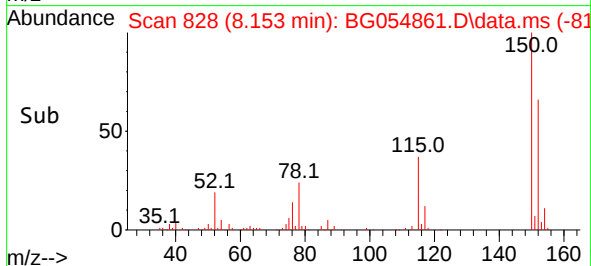
Instrument :  
BNA\_G  
ClientSampleId :  
TP1



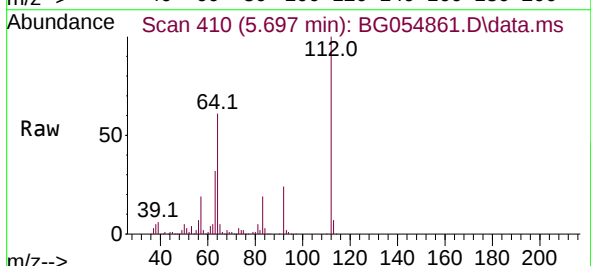
Tgt Ion:152 Resp: 55204  
Ion Ratio Lower Upper  
152 100  
150 151.8 125.2 187.8  
115 55.8 47.9 71.9

Manual Integrations  
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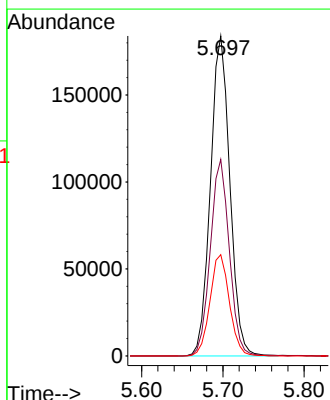
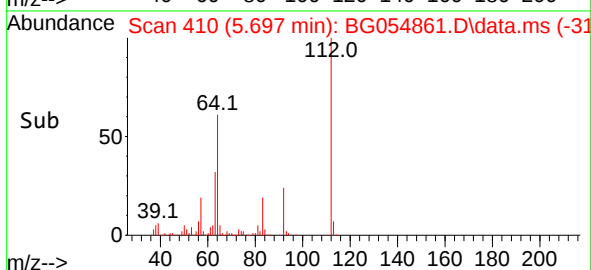
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022

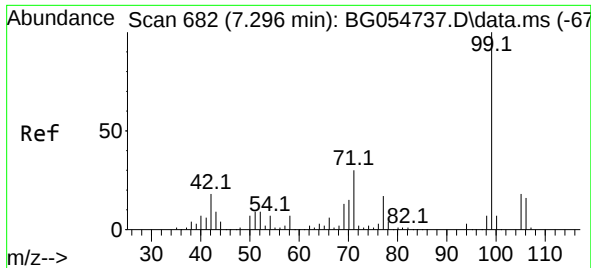


#5  
2-Fluorophenol  
Concen: 96.263 ng  
RT: 5.697 min Scan# 410  
Delta R.T. 0.012 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



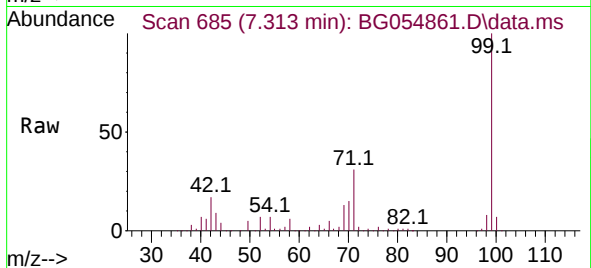
Tgt Ion:112 Resp: 305169  
Ion Ratio Lower Upper  
112 100  
64 61.4 49.3 73.9  
63 31.6 26.3 39.5





#7  
Phenol-d6  
Concen: 96.159 ng  
RT: 7.313 min Scan# 682  
Delta R.T. 0.017 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

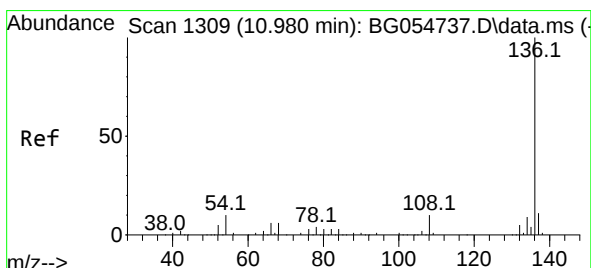
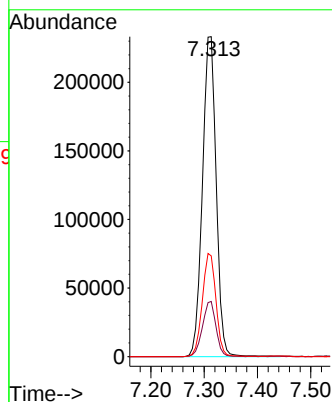
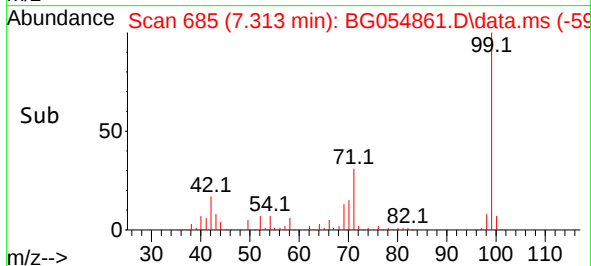
Instrument :  
BNA\_G  
ClientSampleId :  
TP1



Tgt Ion: 99 Resp: 416892  
Ion Ratio Lower Upper  
99 100  
42 17.2 14.6 22.0  
71 31.5 24.6 37.0

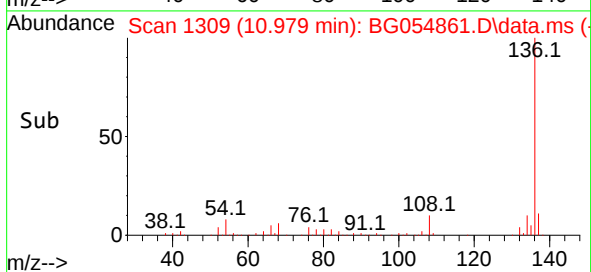
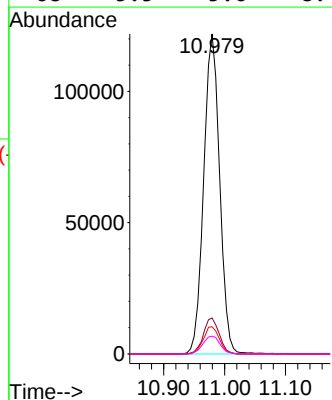
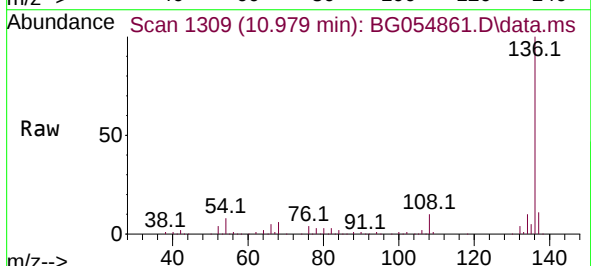
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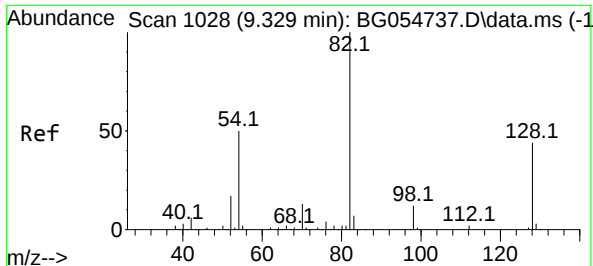
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.979 min Scan# 1309  
Delta R.T. -0.001 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

Tgt Ion:136 Resp: 221007  
Ion Ratio Lower Upper  
136 100  
137 11.2 9.2 13.8  
54 8.5 7.7 11.5  
68 5.5 5.6 8.4





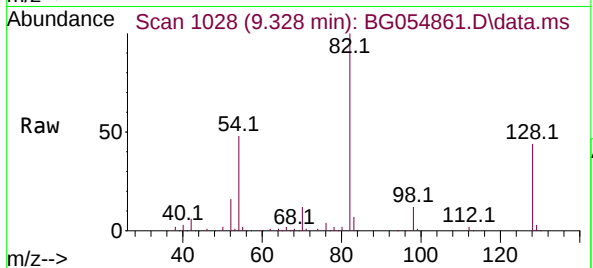
#23  
Nitrobenzene-d5  
Concen: 60.654 ng  
RT: 9.328 min Scan# 1028  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

Instrument :

BNA\_G

ClientSampleId :

TP1

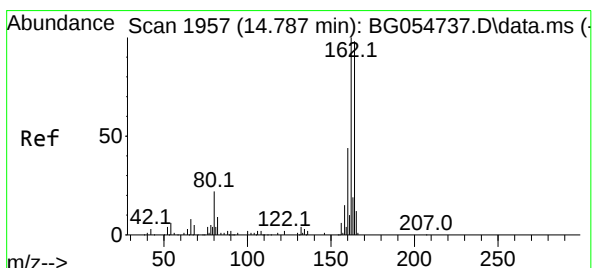
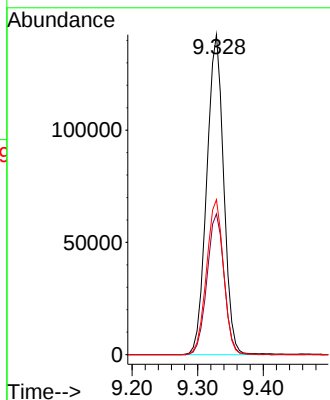
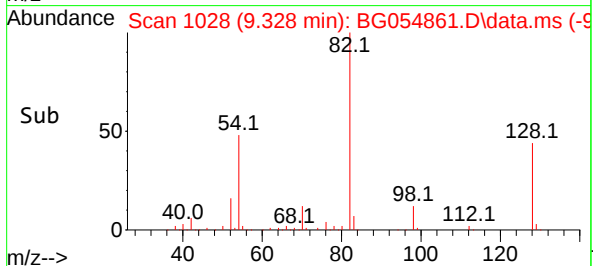


Tgt Ion: 82 Resp: 255352  
Ion Ratio Lower Upper  
82 100  
128 44.0 32.2 48.2  
54 48.4 41.4 62.0

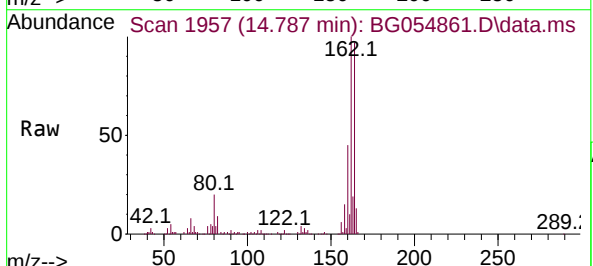
Manual Integrations

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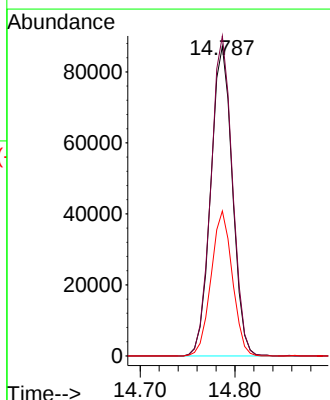
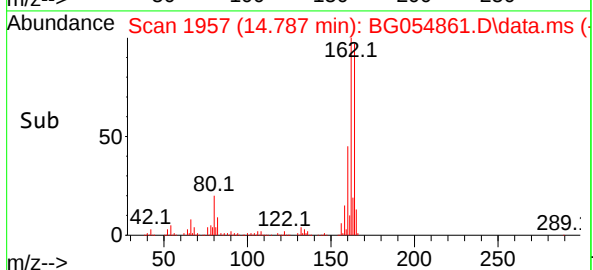
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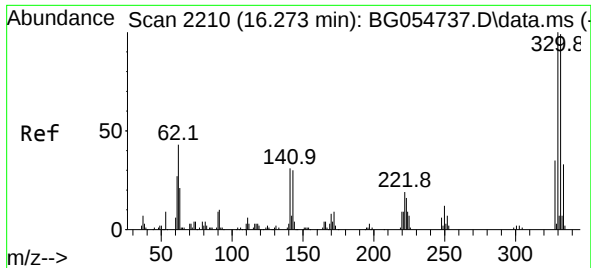


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.787 min Scan# 1957  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



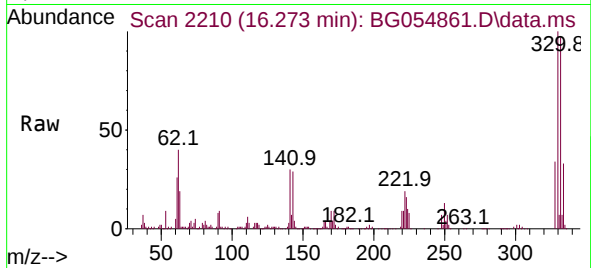
Tgt Ion:164 Resp: 137911  
Ion Ratio Lower Upper  
164 100  
162 103.3 83.0 124.4  
160 46.8 38.0 57.0





#42  
2,4,6-Tribromophenol  
Concen: 98.899 ng  
RT: 16.273 min Scan# 2210  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

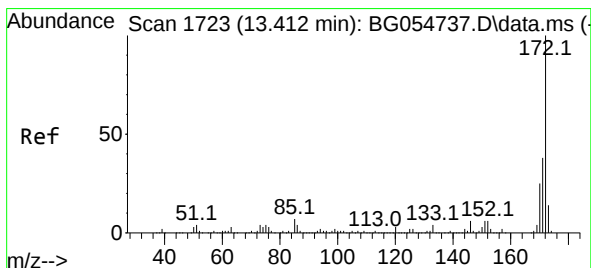
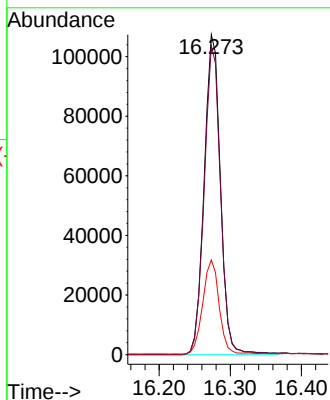
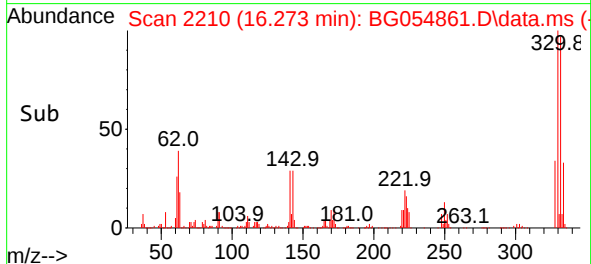
Instrument :  
BNA\_G  
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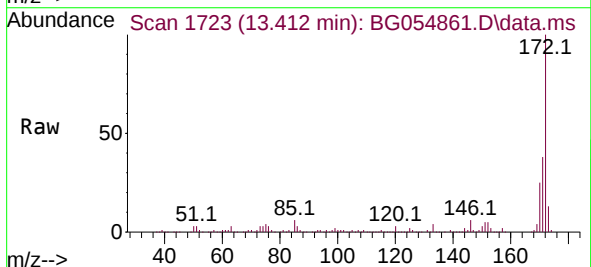
Tgt Ion:330 Resp: 170432  
Ion Ratio Lower Upper  
330 100  
332 96.6 79.8 119.6  
141 29.3 26.8 40.2

Manual Integrations  
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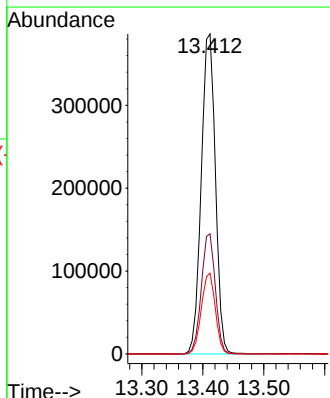
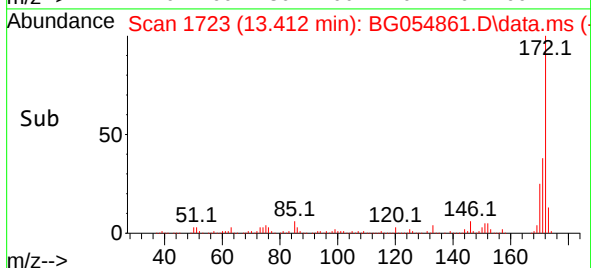
Reviewed By :Christian Giraldo 09/07/2022  
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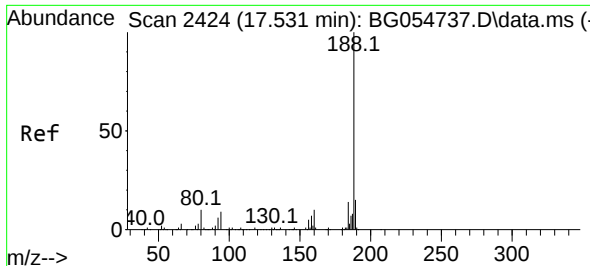


#45  
2-Fluorobiphenyl  
Concen: 67.779 ng  
RT: 13.412 min Scan# 1723  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



Tgt Ion:172 Resp: 621919  
Ion Ratio Lower Upper  
172 100  
171 37.5 31.2 46.8  
170 25.2 20.6 30.8





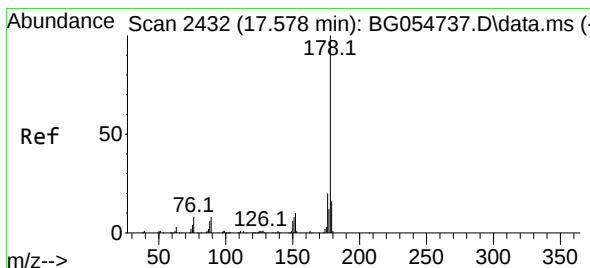
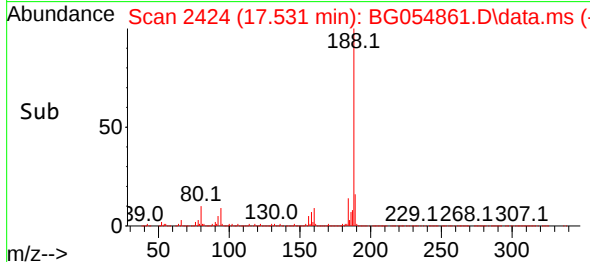
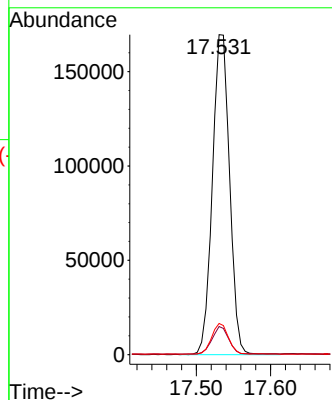
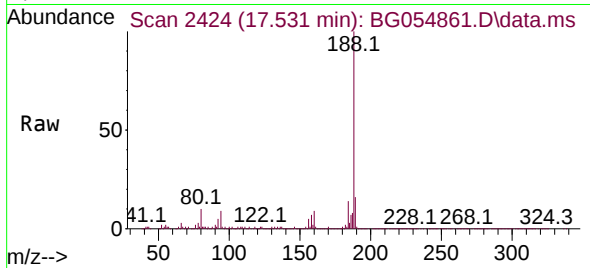
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.531 min Scan# 2424  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

Instrument :  
BNA\_G  
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TP1

Tgt Ion:188 Resp: 272966  
Ion Ratio Lower Upper  
188 100  
94 8.8 7.0 10.4  
80 9.7 7.9 11.9

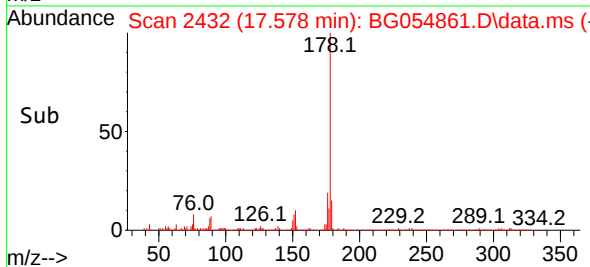
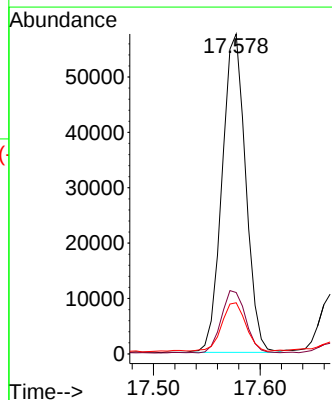
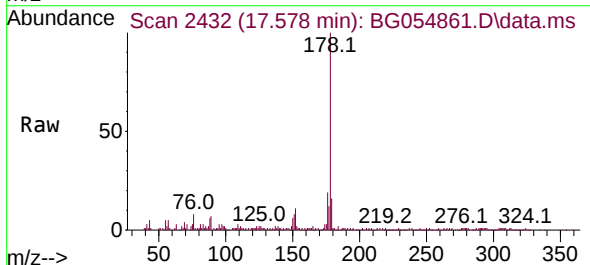
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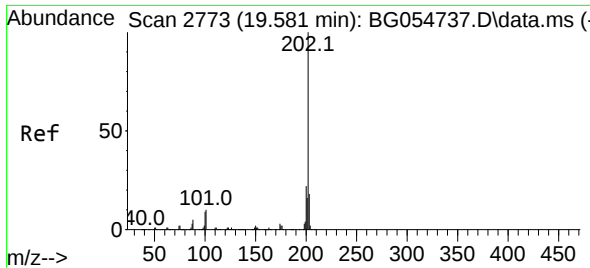
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022



#71  
Phenanthrene  
Concen: 6.095 ng  
RT: 17.578 min Scan# 2432  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

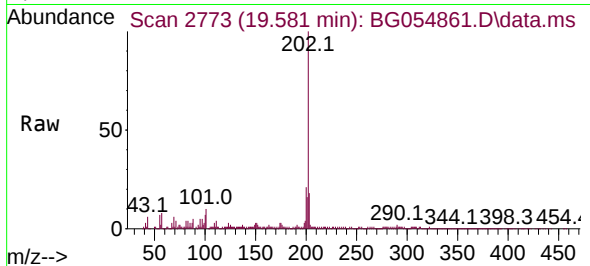
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Ion Ratio Lower Upper  
178 100  
176 19.2 16.6 25.0  
179 16.0 12.8 19.2





#75  
Fluoranthene  
Concen: 12.430 ng  
RT: 19.581 min Scan# 219882  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

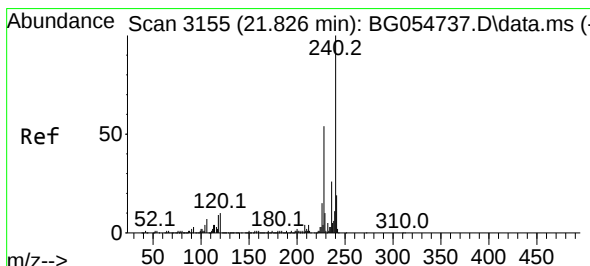
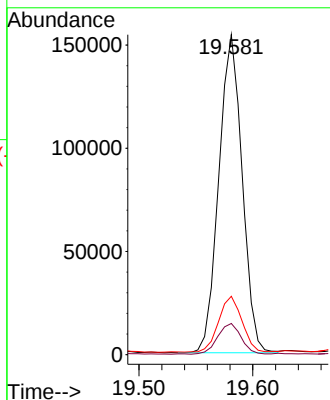
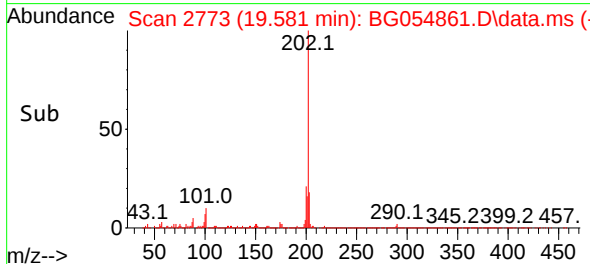
Instrument :  
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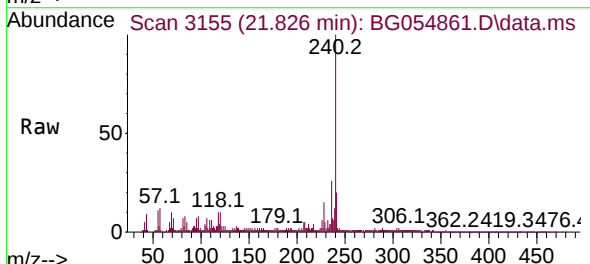
Tgt Ion:202 Resp: 219882  
Ion Ratio Lower Upper  
202 100  
101 9.7 0.0 31.4  
203 18.2 0.0 38.6

Manual Integrations  
APPROVED

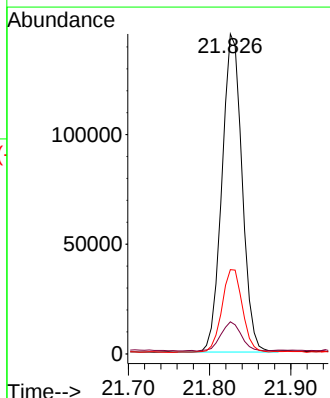
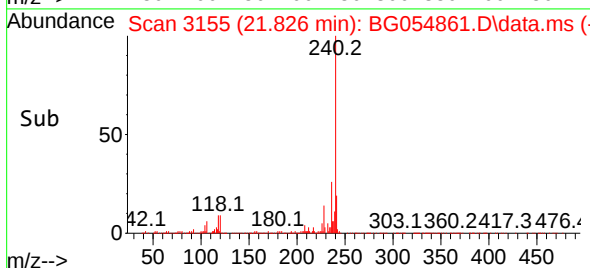
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022

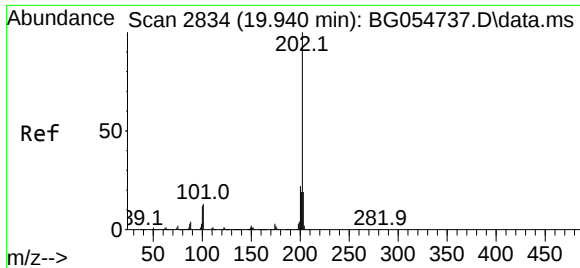


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.826 min Scan# 3155  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



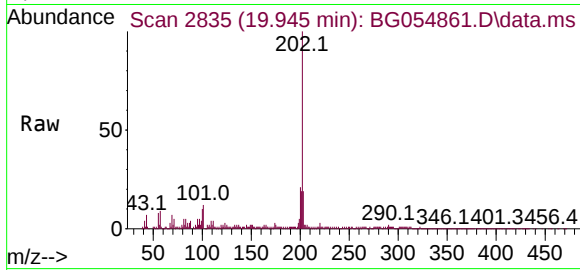
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Ion Ratio Lower Upper  
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120 10.0 8.2 12.4  
236 26.3 21.2 31.8





#78  
 Pyrene  
 Concen: 13.278 ng  
 RT: 19.945 min Scan# 2834  
 Delta R.T. 0.006 min  
 Lab File: BG054861.D  
 Acq: 6 Sep 2022 21:24

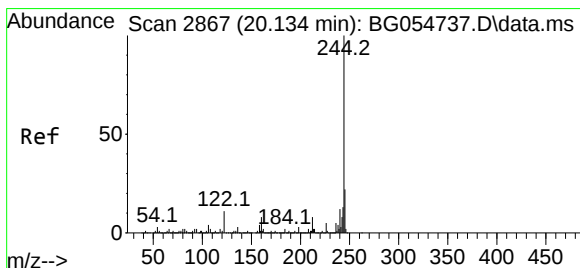
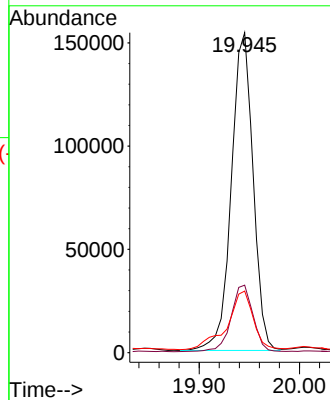
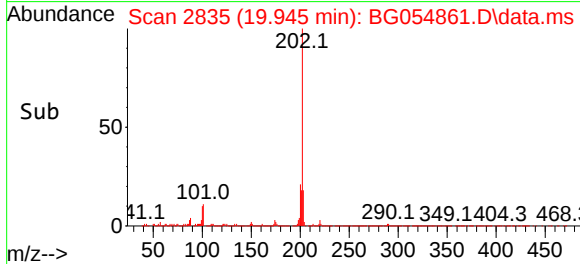
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP1



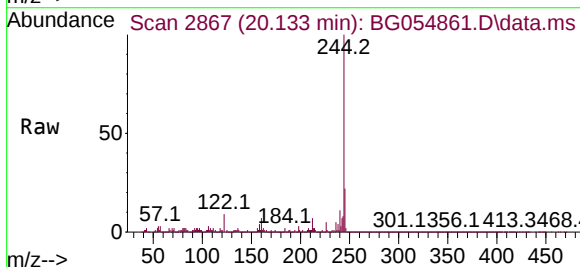
Tgt Ion:202 Resp: 230960  
 Ion Ratio Lower Upper  
 202 100  
 200 21.1 17.8 26.6  
 203 19.2 14.6 21.8

Manual Integrations  
 APPROVED

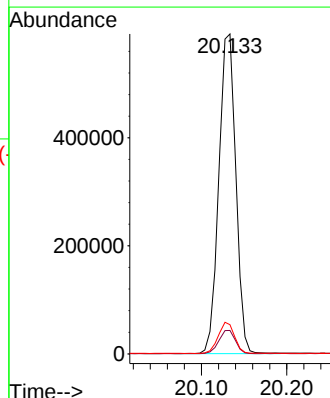
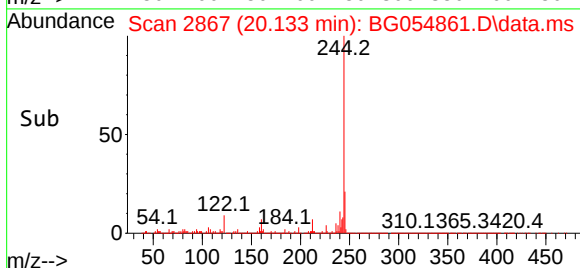
Reviewed By :Christian Giraldo 09/07/2022  
 Supervised By :Jagrut Upadhyay 09/07/2022

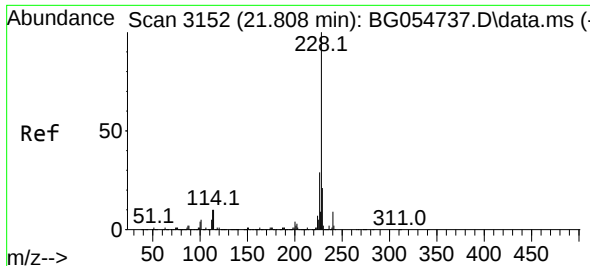


#79  
 Terphenyl-d14  
 Concen: 65.026 ng  
 RT: 20.133 min Scan# 2867  
 Delta R.T. -0.000 min  
 Lab File: BG054861.D  
 Acq: 6 Sep 2022 21:24



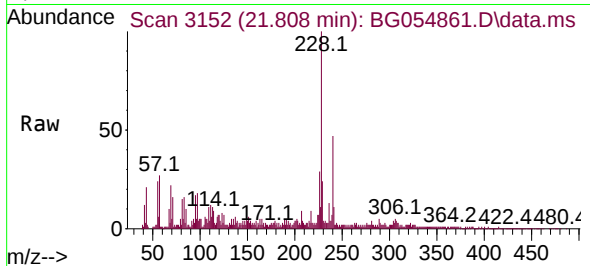
Tgt Ion:244 Resp: 818672  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.2 9.2  
 122 9.1 9.0 13.6





#81  
Benzo(a)anthracene  
Concen: 7.135 ng  
RT: 21.808 min Scan# 3152  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

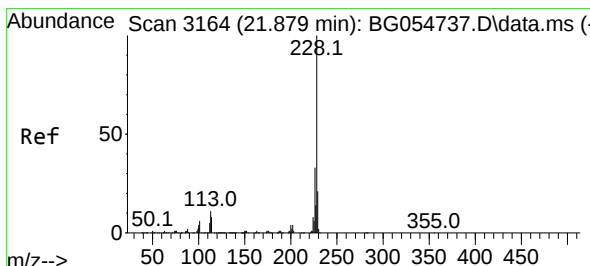
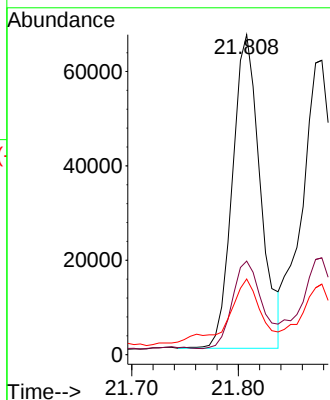
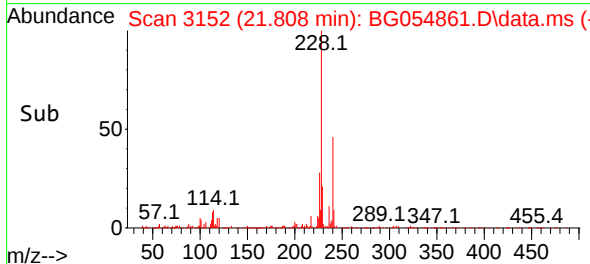
Instrument :  
BNA\_G  
ClientSampleId :  
TP1



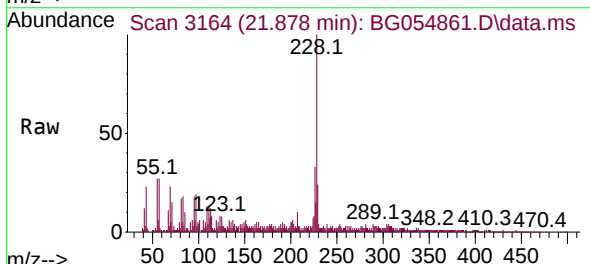
Tgt Ion:228 Resp: 120684  
Ion Ratio Lower Upper  
228 100  
226 29.2 23.4 35.2  
229 23.6 16.5 24.7

Manual Integrations  
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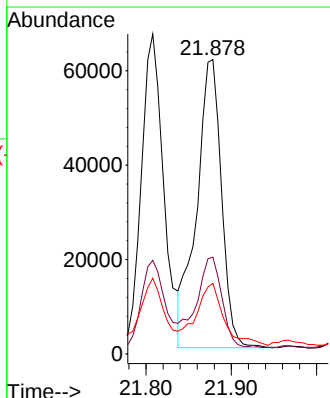
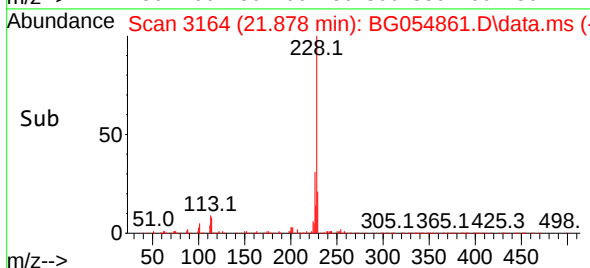
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022

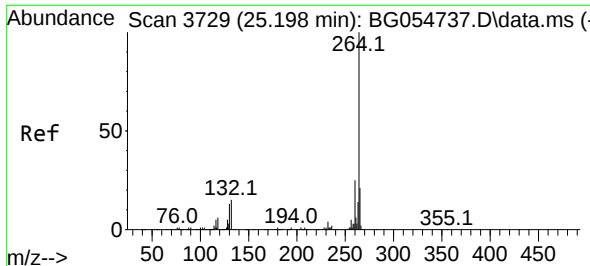


#83  
Chrysene  
Concen: 7.677 ng  
RT: 21.878 min Scan# 3164  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



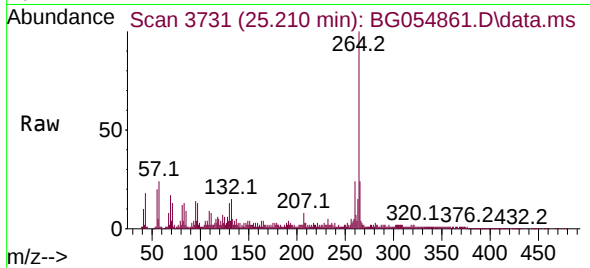
Tgt Ion:228 Resp: 124154  
Ion Ratio Lower Upper  
228 100  
226 32.8 25.5 38.3  
229 23.9 16.8 25.2





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.210 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

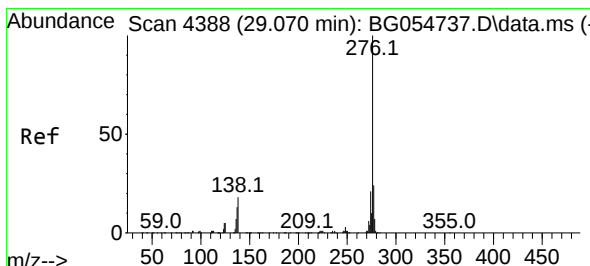
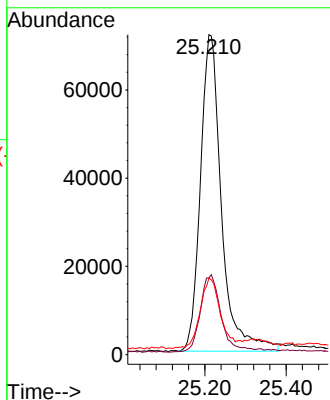
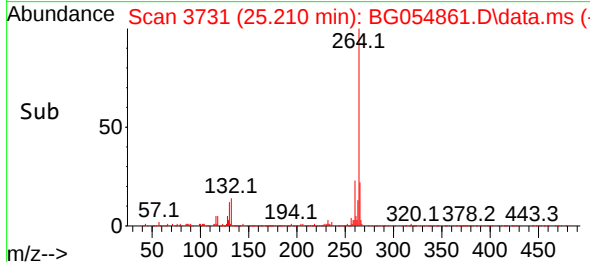
Instrument :  
BNA\_G  
ClientSampleId :  
TP1



Tgt Ion:264 Resp: 25819  
Ion Ratio Lower Upper  
264 100  
260 24.0 19.9 29.9  
265 23.9 16.9 25.3

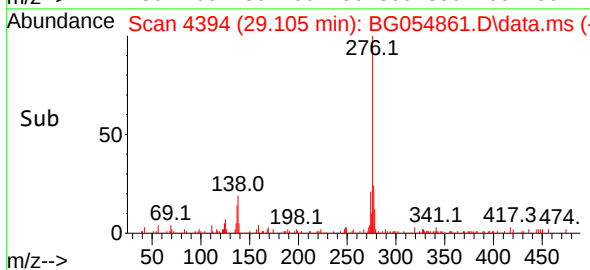
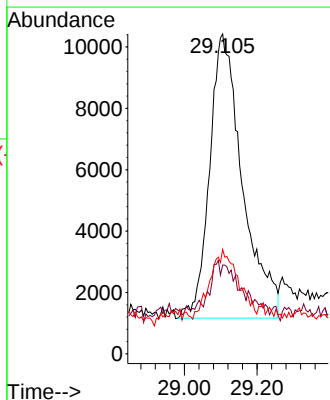
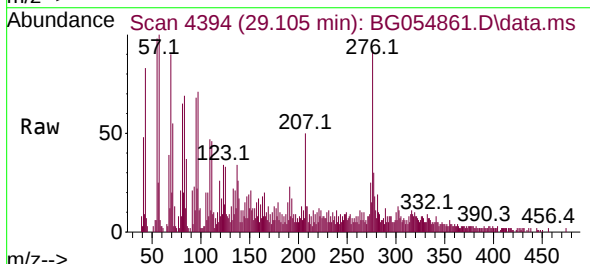
Manual Integrations  
APPROVED

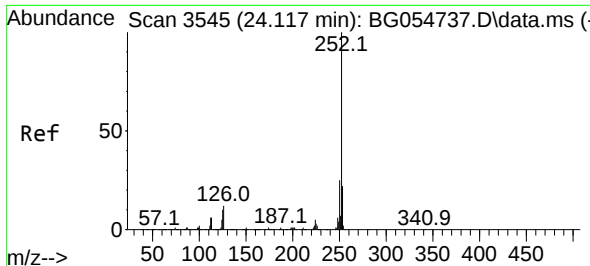
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.977 ng  
RT: 29.105 min Scan# 4394  
Delta R.T. 0.035 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

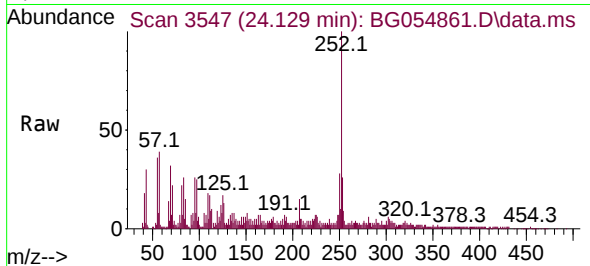
Tgt Ion:276 Resp: 58345  
Ion Ratio Lower Upper  
276 100  
138 4.4 12.0 18.0#  
277 21.8 20.2 30.4





#88  
Benzo(b)fluoranthene  
Concen: 9.211 ng  
RT: 24.129 min Scan# 3547  
Delta R.T. 0.012 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

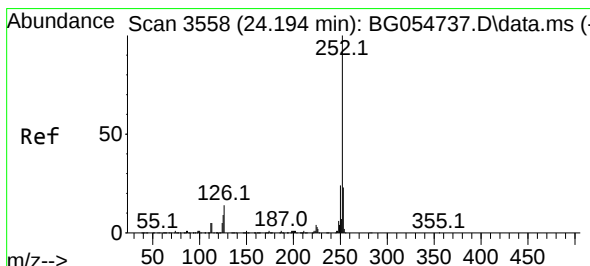
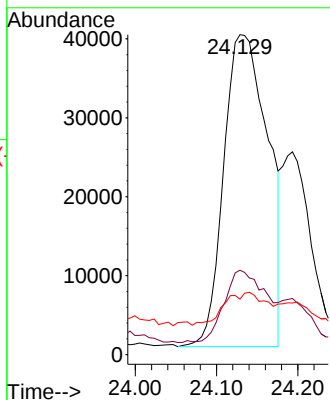
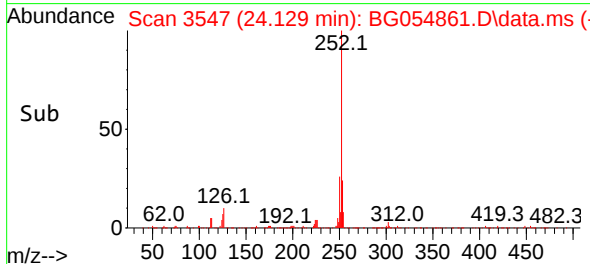
Instrument :  
BNA\_G  
ClientSampleId :  
TP1



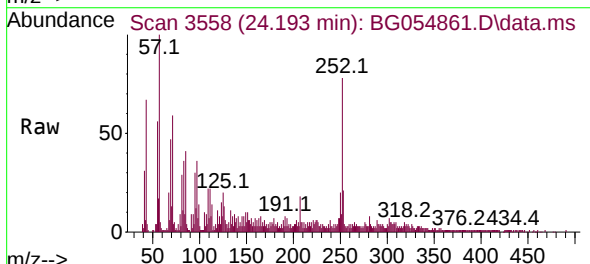
Tgt Ion:252 Resp: 149192  
Ion Ratio Lower Upper  
252 100  
253 26.4 18.0 27.0  
125 17.3 8.1 12.1

Manual Integrations  
APPROVED

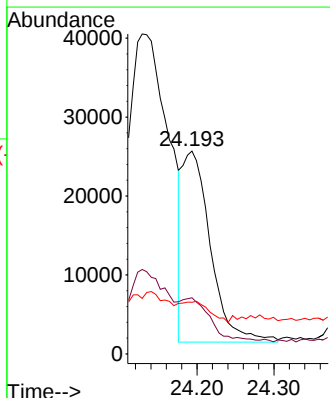
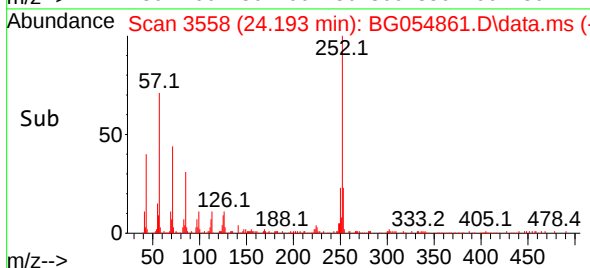
Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022

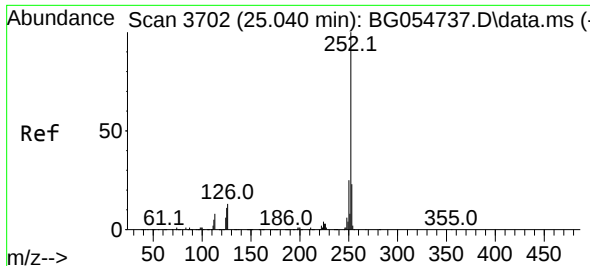


#89  
Benzo(k)fluoranthene  
Concen: 3.783 ng m  
RT: 24.193 min Scan# 3558  
Delta R.T. -0.000 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



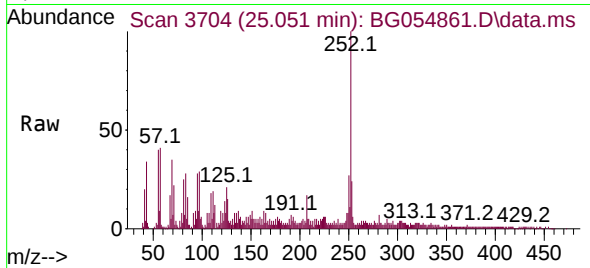
Tgt Ion:252 Resp: 61661  
Ion Ratio Lower Upper  
252 100  
253 27.7 17.8 26.8#  
125 25.4 8.2 12.4#





#90  
Benzo(a)pyrene  
Concen: 8.117 ng  
RT: 25.051 min Scan# 31  
Delta R.T. 0.012 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24

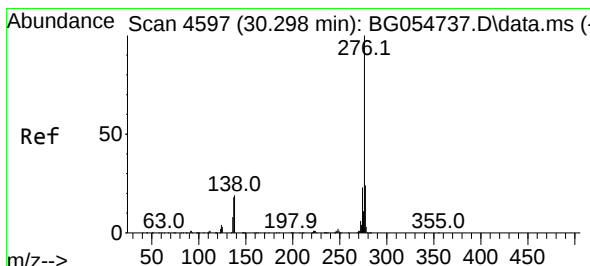
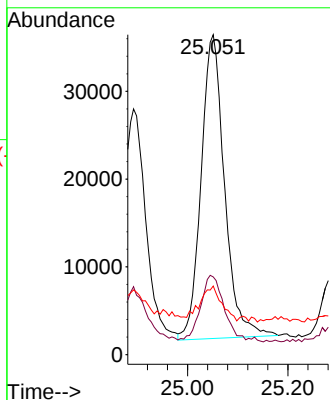
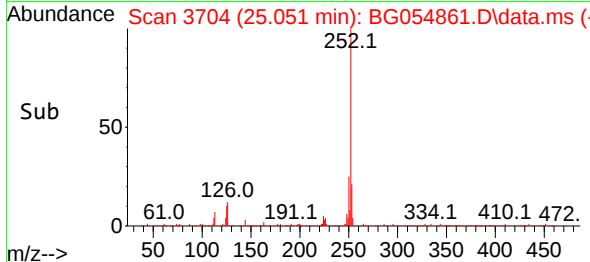
Instrument :  
BNA\_G  
ClientSampleId :  
TP1



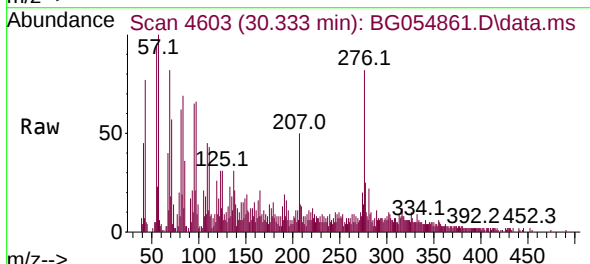
Tgt Ion:252 Resp: 11232  
Ion Ratio Lower Upper  
252 100  
253 24.3 18.3 27.5  
125 21.4 8.8 13.2

Manual Integrations  
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Reviewed By :Christian Giraldo 09/07/2022  
Supervised By :Jagrut Upadhyay 09/07/2022



#92  
Benzo(g,h,i)perylene  
Concen: 3.381 ng m  
RT: 30.333 min Scan# 4603  
Delta R.T. 0.035 min  
Lab File: BG054861.D  
Acq: 6 Sep 2022 21:24



Tgt Ion:276 Resp: 54545  
Ion Ratio Lower Upper  
276 100  
277 31.0 19.4 29.0#  
138 26.2 16.6 25.0#

