

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051322\  
 Data File : BG053537.D  
 Acq On : 13 May 2022 11:05  
 Operator : CG/JU  
 Sample : N2749-19  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-7

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 05/16/2022  
 Supervised By : Jagrut Upadhyay 05/16/2022

Quant Time: May 14 03:12:40 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG050522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed May 11 06:00:46 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.081  | 152  | 23380    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.895 | 136  | 88509    | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.707 | 164  | 64779    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.456 | 188  | 157687   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.733 | 240  | 188867   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 25.005 | 264  | 203377   | 20.000  | ng    | -0.01    |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.649  | 112  | 161919   | 117.536 | ng    | 0.00     |
| 7) Phenol-d6                | 7.247  | 99   | 241358   | 115.441 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.244  | 82   | 167039   | 80.337  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.199 | 330  | 115434   | 120.821 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.333 | 172  | 346822   | 78.236  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.059 | 244  | 719517   | 70.954  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 71) Phenanthrene            | 17.497 | 178  | 46561    | 5.807   | ng    | 99       |
| 75) Fluoranthene            | 19.507 | 202  | 92631    | 8.922   | ng    | 99       |
| 78) Pyrene                  | 19.865 | 202  | 88179    | 7.212   | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.715 | 228  | 63377    | 5.261   | ng    | 97       |
| 83) Chrysene                | 21.780 | 228  | 62613    | 5.565   | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.753 | 276  | 65764    | 4.643   | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 23.971 | 252  | 141249   | 11.733  | ng    | # 96     |
| 89) Benzo(k)fluoranthene    | 24.030 | 252  | 37624m   | 3.181   | ng    |          |
| 90) Benzo(a)pyrene          | 24.852 | 252  | 85811    | 8.375   | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 29.928 | 276  | 65596    | 5.670   | ng    | 98       |
| -----                       |        |      |          |         |       |          |

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

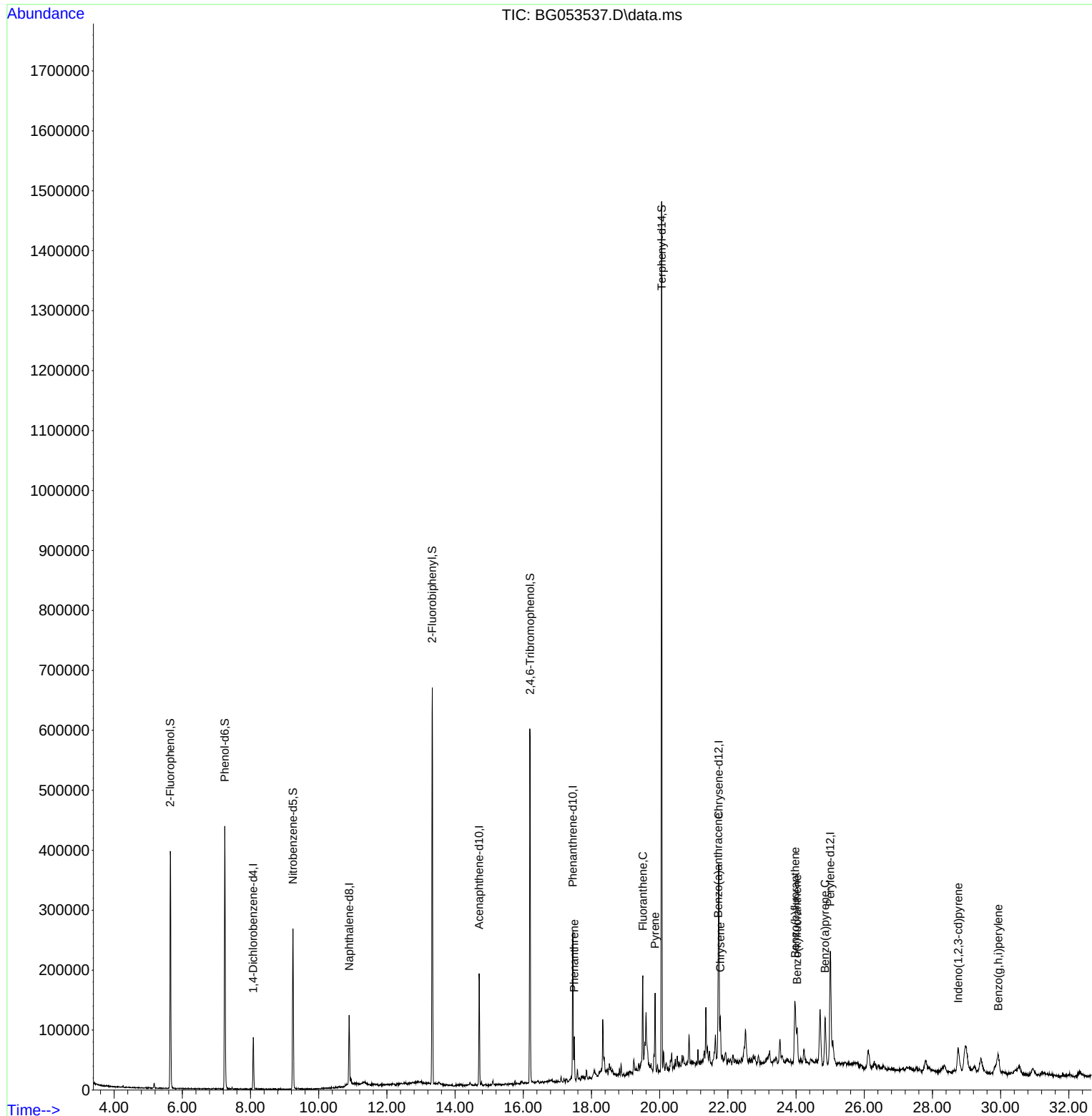
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG051322\  
Data File : BG053537.D  
Acq On : 13 May 2022 11:05  
Operator : CG/JU  
Sample : N2749-19  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

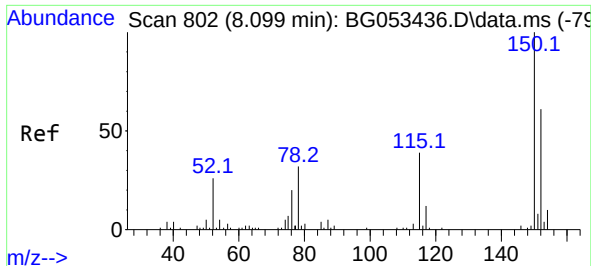
Instrument :  
BNA\_G  
ClientSampleId :  
TP-7

Quant Time: May 14 03:12:40 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG050522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed May 11 06:00:46 2022  
Response via : Initial Calibration

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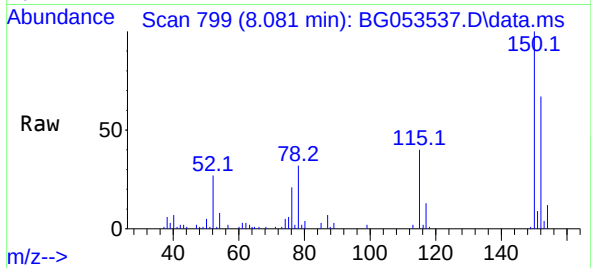
Reviewed By : Christian Giraldo 05/16/2022  
Supervised By : Jagrut Upadhyay 05/16/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.081 min Scan# 799  
Delta R.T. -0.008 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

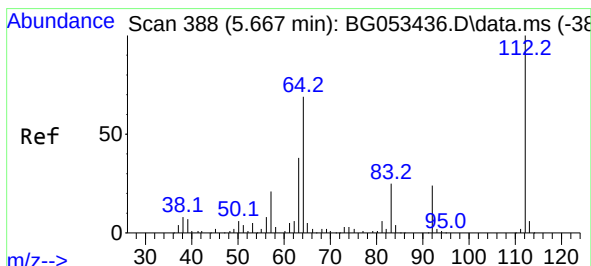
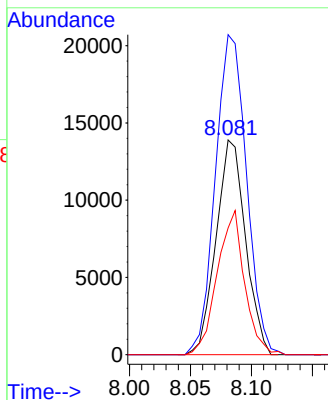
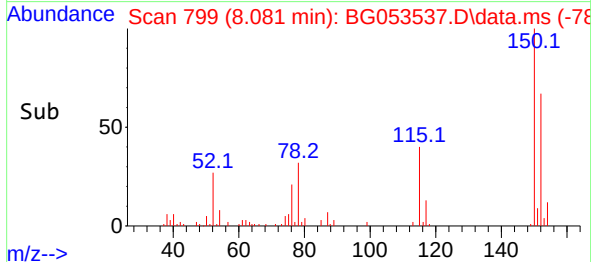
Instrument :  
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ClientSampleId :  
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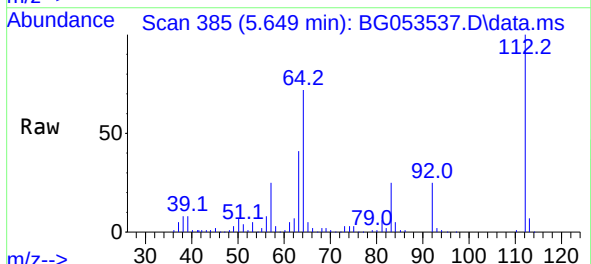
Tgt Ion:152 Resp: 23380  
Ion Ratio Lower Upper  
152 100  
150 149.0 131.6 197.4  
115 59.0 50.9 76.3

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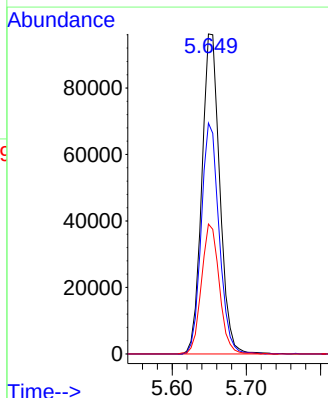
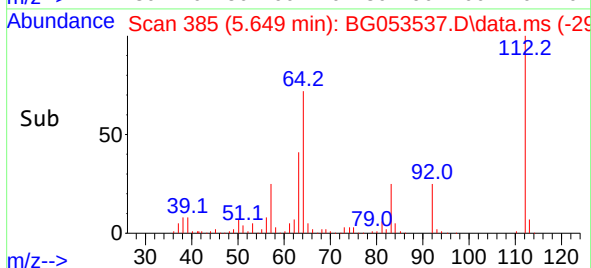
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

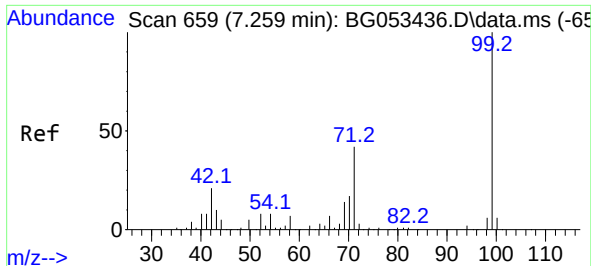


#5  
2-Fluorophenol  
Concen: 117.536 ng  
RT: 5.649 min Scan# 385  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05



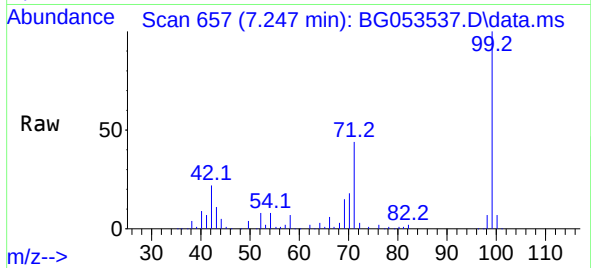
Tgt Ion:112 Resp: 161919  
Ion Ratio Lower Upper  
112 100  
64 72.1 55.1 82.7  
63 40.6 30.4 45.6





#7  
Phenol-d6  
Concen: 115.441 ng  
RT: 7.247 min Scan# 61  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

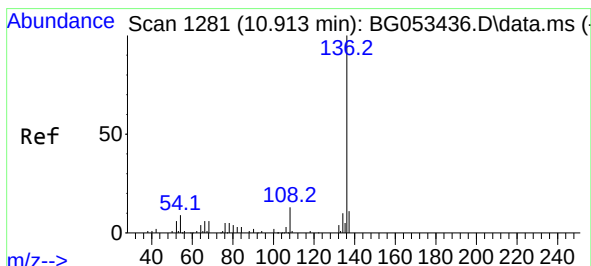
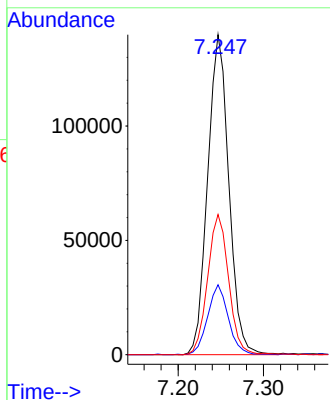
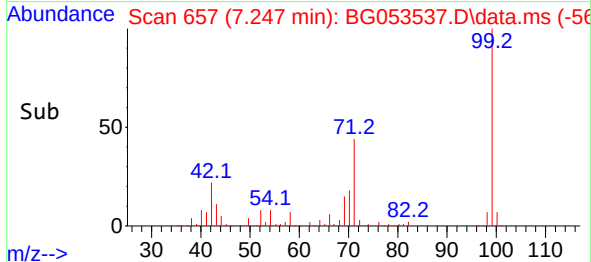
Instrument :  
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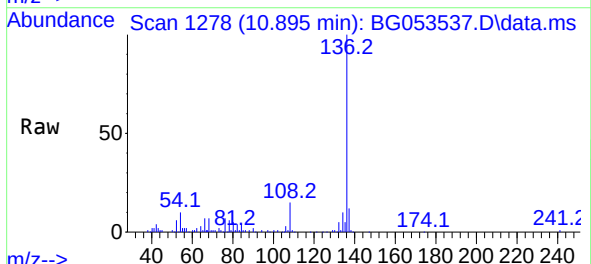
Tgt Ion: 99 Resp: 241358  
Ion Ratio Lower Upper  
99 100  
42 21.9 17.0 25.6  
71 43.8 33.8 50.8

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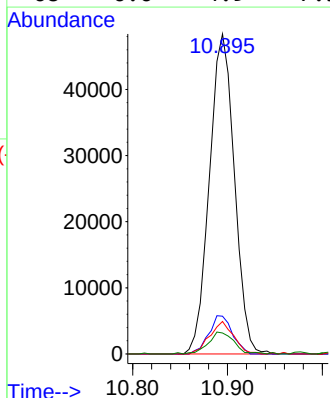
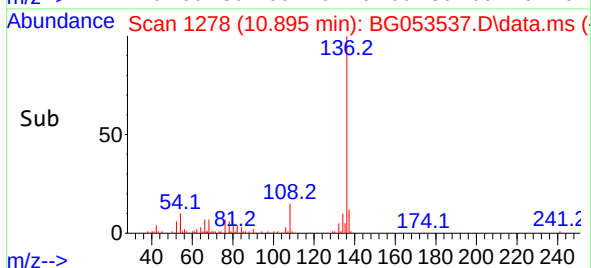
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

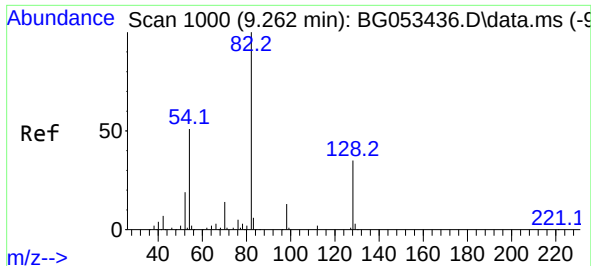


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.895 min Scan# 1278  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05



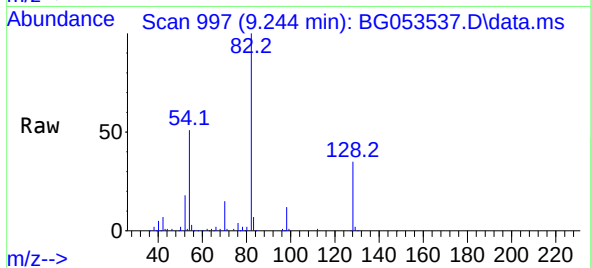
Tgt Ion:136 Resp: 88509  
Ion Ratio Lower Upper  
136 100  
137 11.8 8.5 12.7  
54 10.2 7.4 11.2  
68 6.6 4.9 7.3





#23  
Nitrobenzene-d5  
Concen: 80.337 ng  
RT: 9.244 min Scan# 91  
Delta R.T. -0.009 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

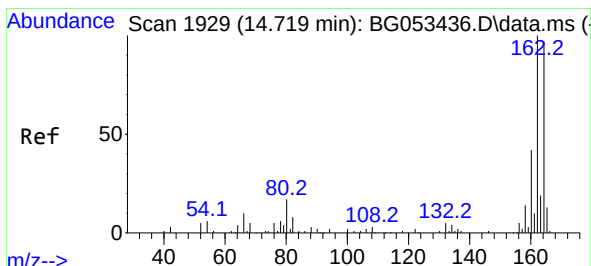
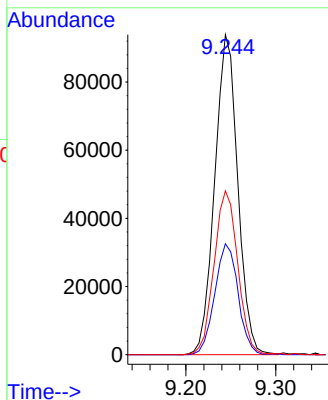
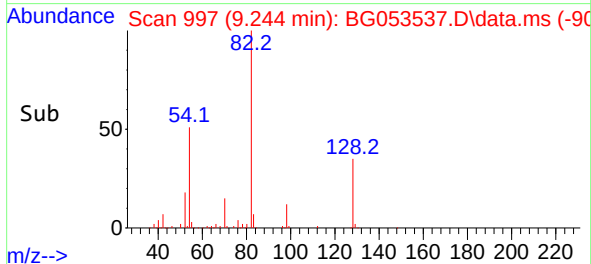
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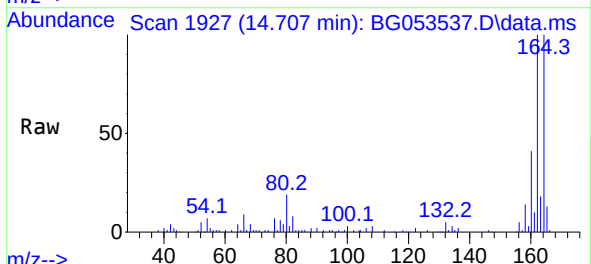
Tgt Ion: 82 Resp: 167039  
Ion Ratio Lower Upper  
82 100  
128 34.6 27.9 41.9  
54 51.2 41.2 61.8

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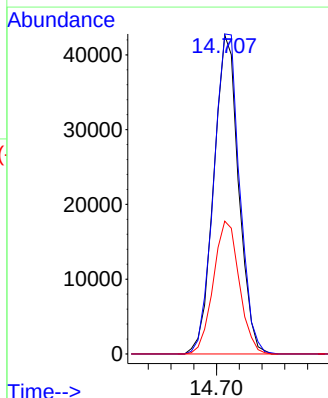
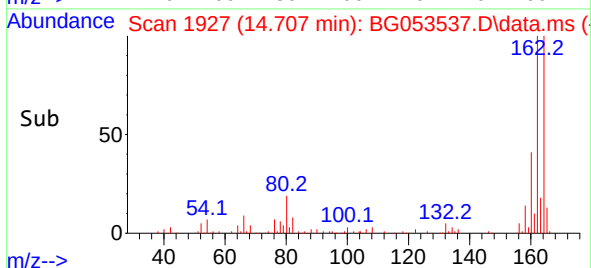
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Supervised By :Jagrut Upadhyay 05/16/2022

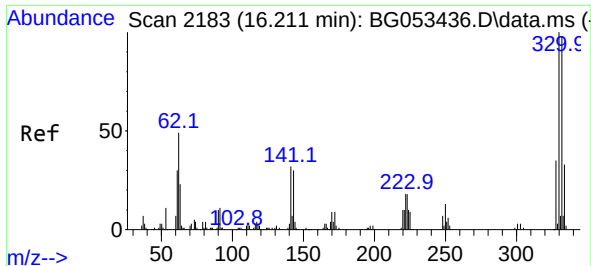


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.707 min Scan# 1927  
Delta R.T. -0.009 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05



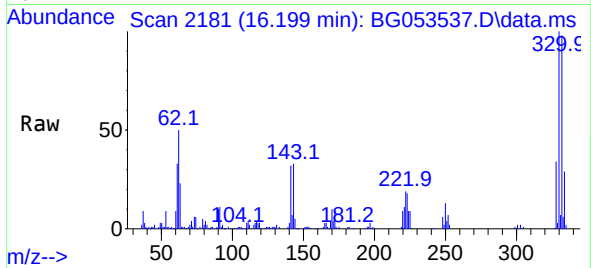
Tgt Ion:164 Resp: 64779  
Ion Ratio Lower Upper  
164 100  
162 100.4 82.3 123.5  
160 41.6 34.2 51.2





#42  
2,4,6-Tribromophenol  
Concen: 120.821 ng  
RT: 16.199 min Scan# 2183  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

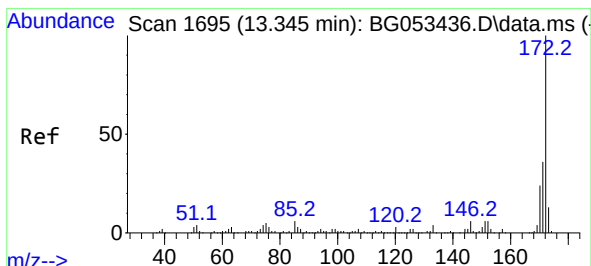
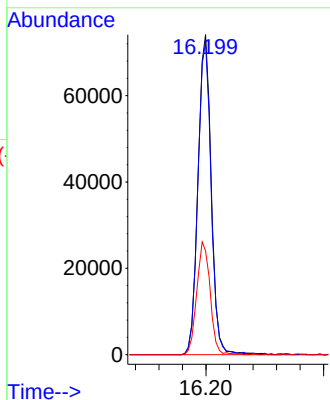
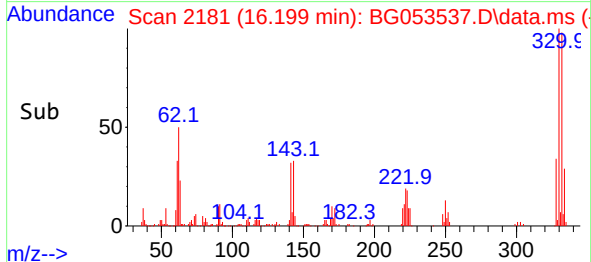
Instrument :  
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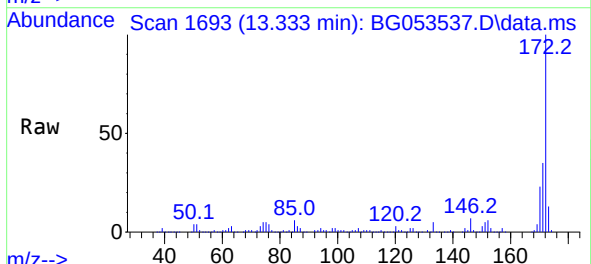
Tgt Ion:330 Resp: 115434  
Ion Ratio Lower Upper  
330 100  
332 97.8 76.0 114.0  
141 35.7 27.1 40.7

Manual Integrations  
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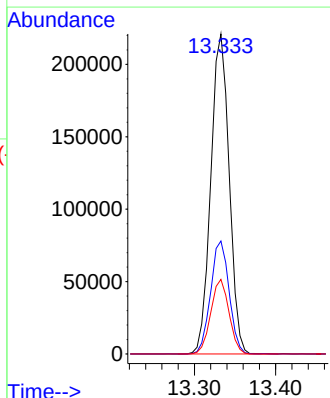
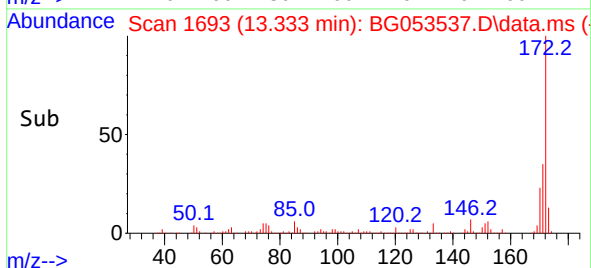
Reviewed By :Christian Giraldo 05/16/2022  
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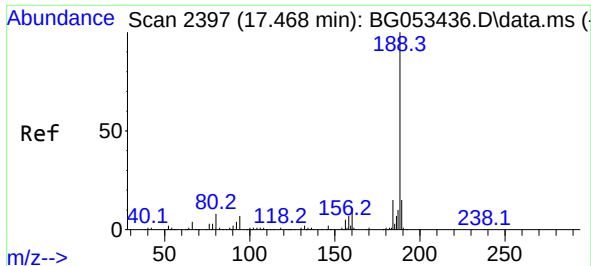


#45  
2-Fluorobiphenyl  
Concen: 78.236 ng  
RT: 13.333 min Scan# 1693  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05



Tgt Ion:172 Resp: 346822  
Ion Ratio Lower Upper  
172 100  
171 35.3 28.5 42.7  
170 23.3 18.9 28.3





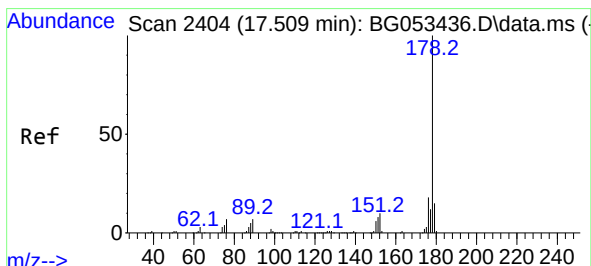
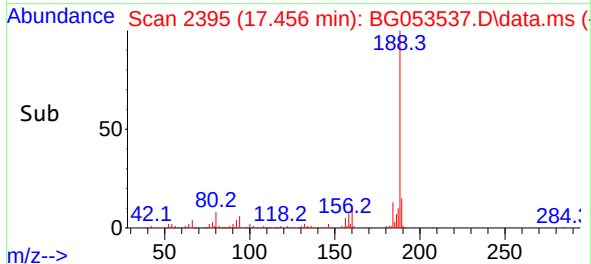
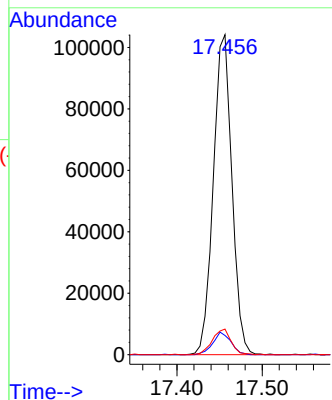
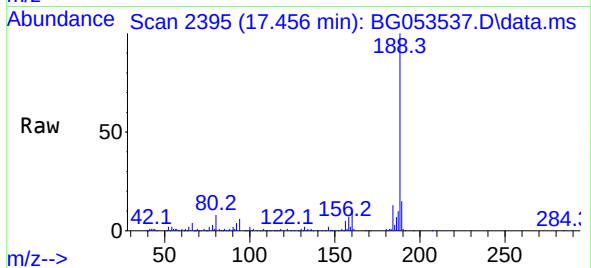
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.456 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

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Tgt Ion:188 Resp: 15768  
Ion Ratio Lower Upper  
188 100  
94 6.0 5.4 8.0  
80 8.0 6.8 10.2

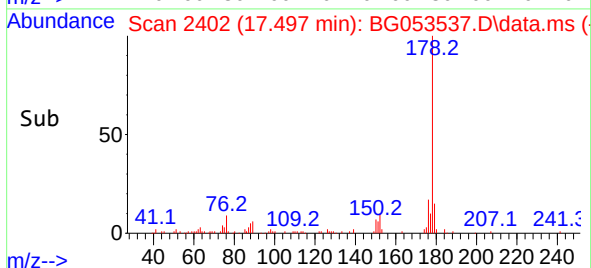
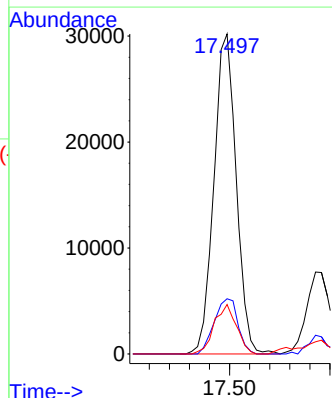
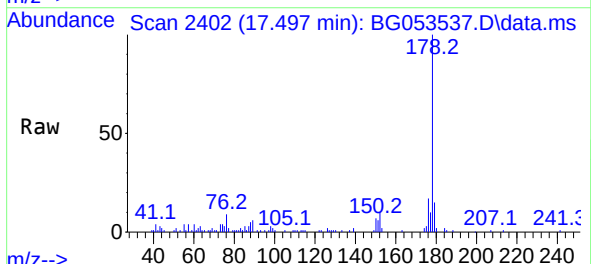
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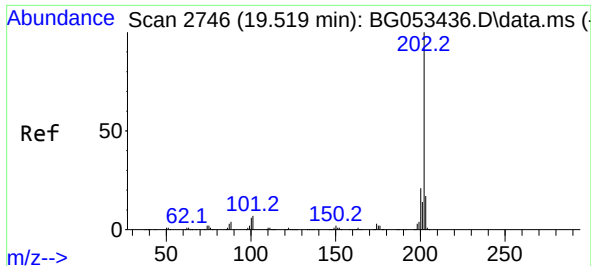
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#71  
Phenanthrene  
Concen: 5.807 ng  
RT: 17.497 min Scan# 2402  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

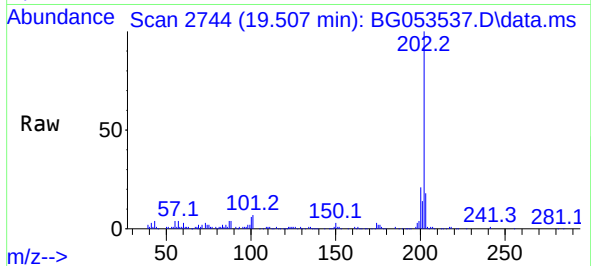
Tgt Ion:178 Resp: 46561  
Ion Ratio Lower Upper  
178 100  
176 17.2 14.1 21.1  
179 15.4 12.1 18.1





#75  
Fluoranthene  
Concen: 8.922 ng  
RT: 19.507 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

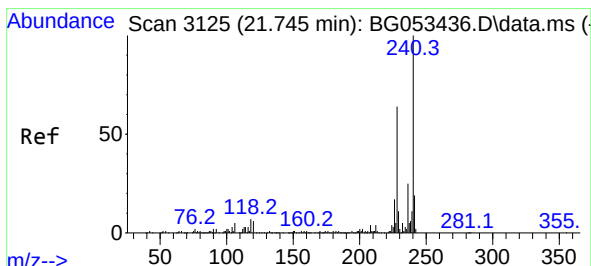
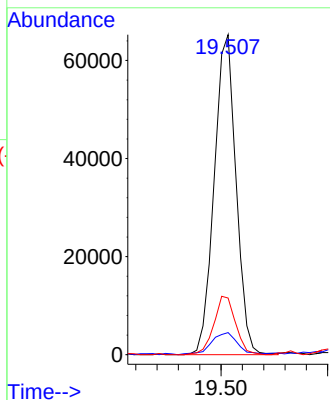
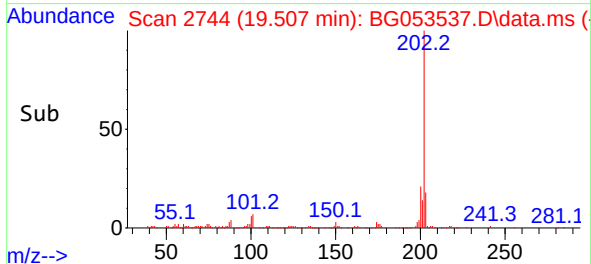
Instrument :  
BNA\_G  
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Tgt Ion:202 Resp: 9263  
Ion Ratio Lower Upper  
202 100  
101 6.9 0.0 26.9  
203 17.7 0.0 37.2

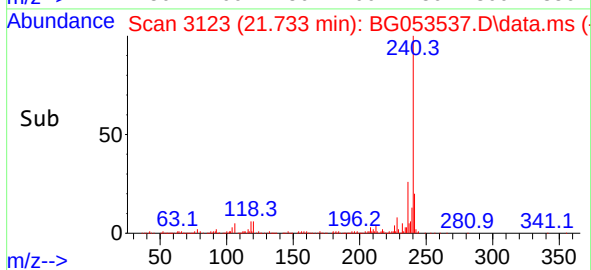
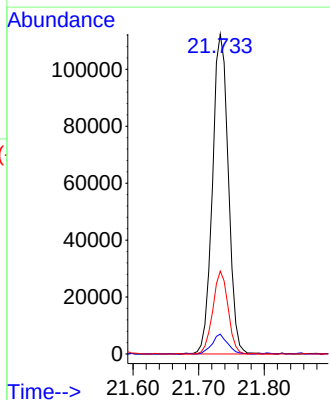
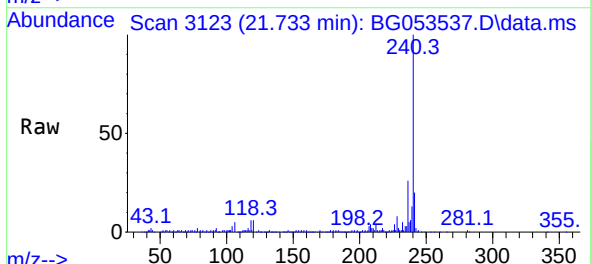
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Supervised By :Jagrut Upadhyay 05/16/2022

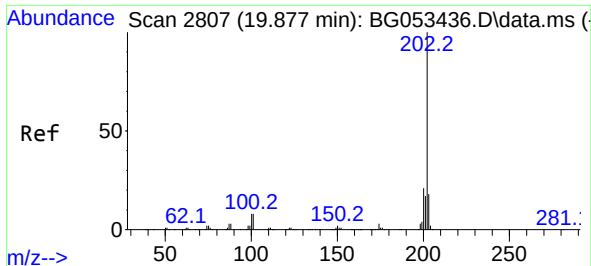


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.733 min Scan# 3123  
Delta R.T. -0.009 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Tgt Ion:240 Resp: 188867  
Ion Ratio Lower Upper  
240 100  
120 6.2 4.6 7.0  
236 25.9 20.2 30.4

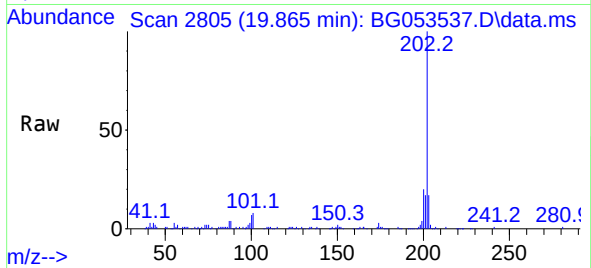






#78  
Pyrene  
Concen: 7.212 ng  
RT: 19.865 min Scan# 2805  
Delta R.T. -0.009 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

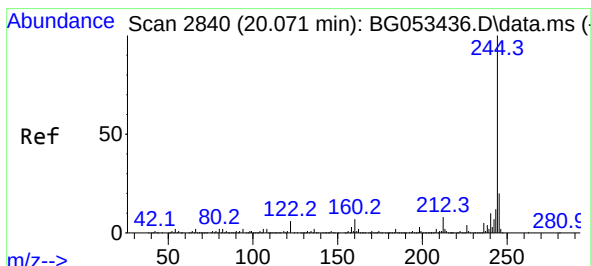
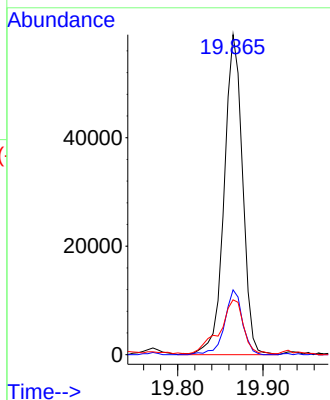
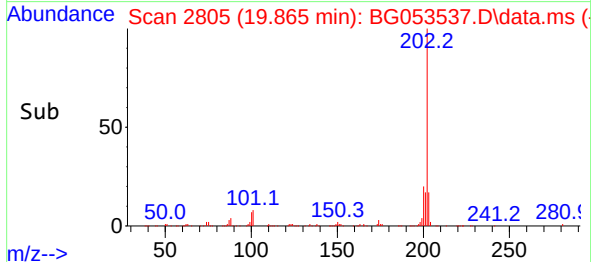
Instrument :  
BNA\_G  
ClientSampleId :  
TP-7



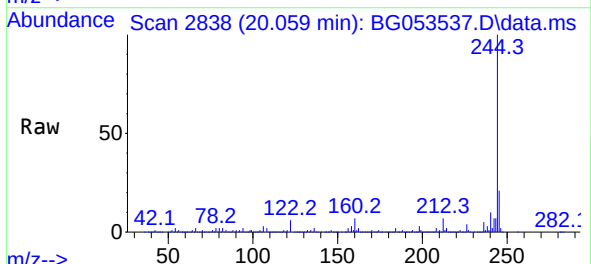
Tgt Ion:202 Resp: 88179  
Ion Ratio Lower Upper  
202 100  
200 20.3 16.6 24.8  
203 17.2 14.6 21.8

Manual Integrations  
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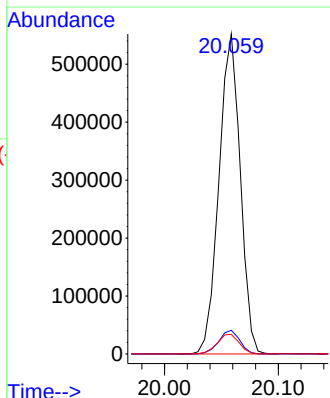
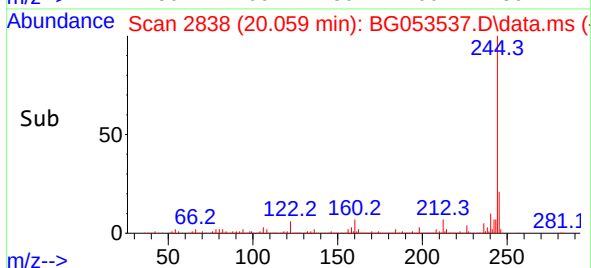
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022

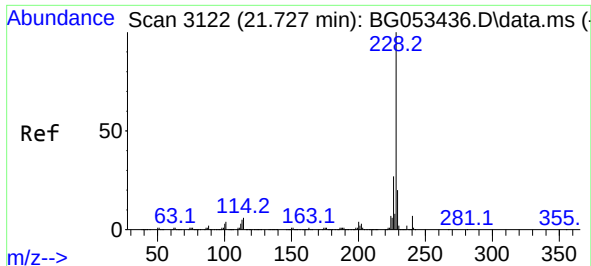


#79  
Terphenyl-d14  
Concen: 70.954 ng  
RT: 20.059 min Scan# 2838  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05



Tgt Ion:244 Resp: 719517  
Ion Ratio Lower Upper  
244 100  
212 7.4 6.5 9.7  
122 6.1 5.0 7.4





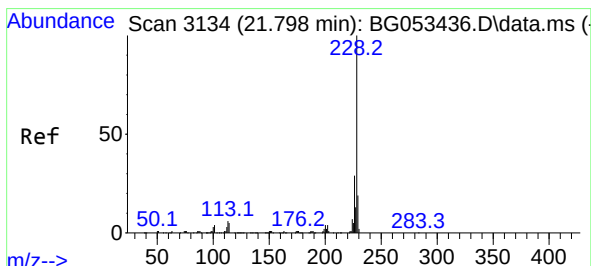
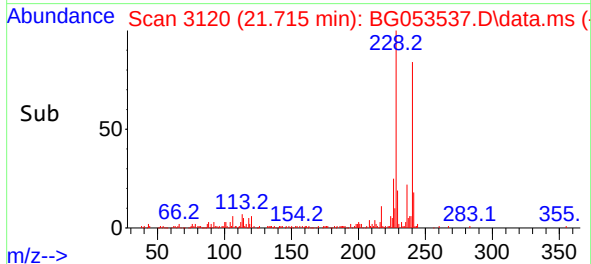
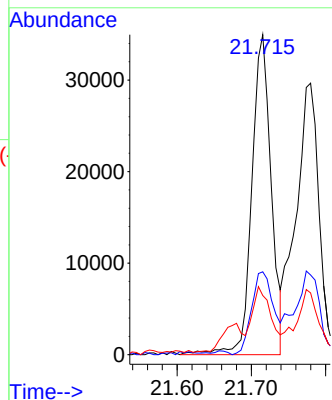
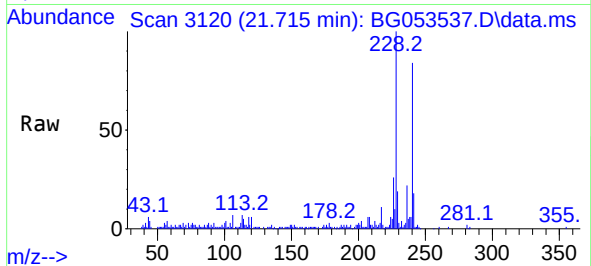
#81  
Benzo(a)anthracene  
Concen: 5.261 ng  
RT: 21.715 min Scan# 3120  
Delta R.T. -0.003 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Instrument :  
BNA\_G  
ClientSampleId :  
TP-7

Tgt Ion:228 Resp: 6337  
Ion Ratio Lower Upper  
228 100  
226 25.9 21.6 32.4  
229 18.5 16.2 24.2

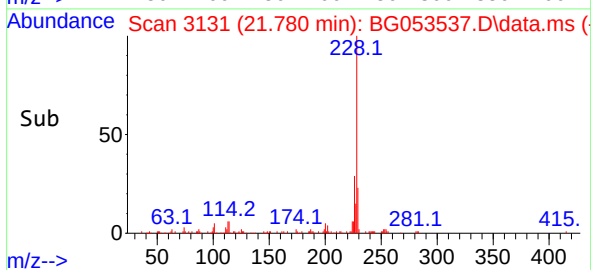
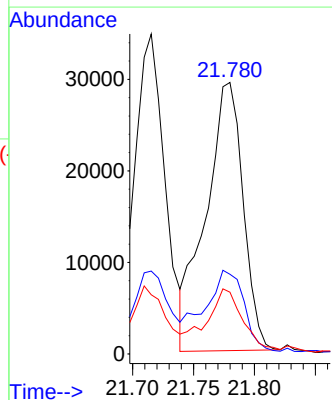
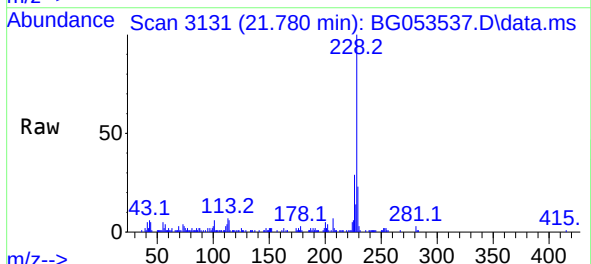
Manual Integrations  
APPROVED

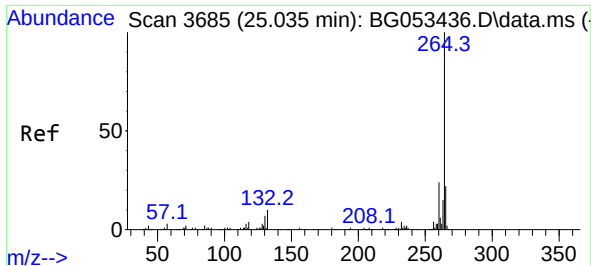
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#83  
Chrysene  
Concen: 5.565 ng  
RT: 21.780 min Scan# 3131  
Delta R.T. -0.009 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Tgt Ion:228 Resp: 62613  
Ion Ratio Lower Upper  
228 100  
226 29.3 23.4 35.2  
229 22.8 15.5 23.3





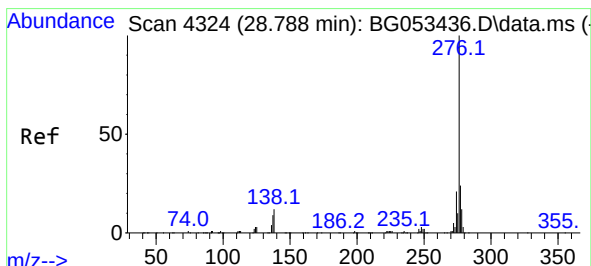
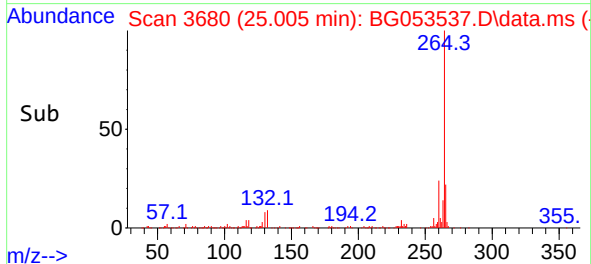
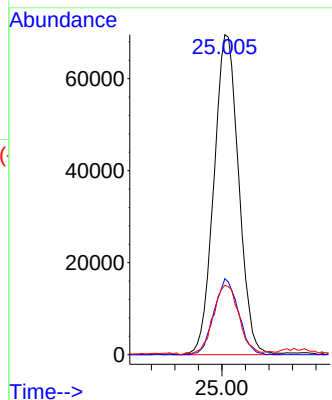
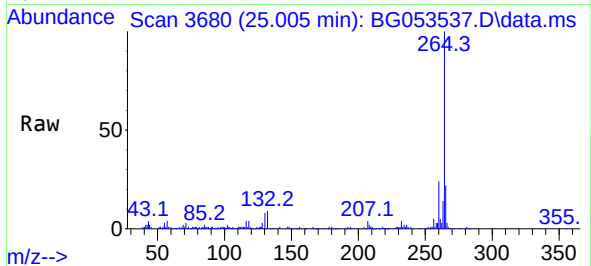
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.005 min Scan# 30  
Delta R.T. -0.014 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Instrument :  
BNA\_G  
ClientSampleId :  
TP-7

Tgt Ion:264 Resp: 20337  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.0 28.6  
265 21.7 17.4 26.2

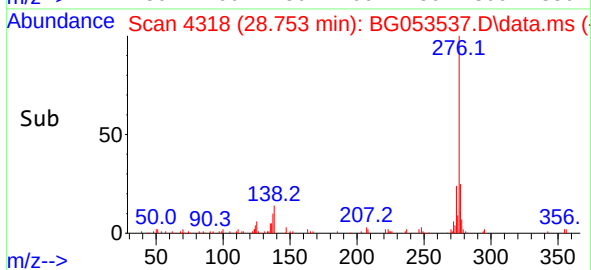
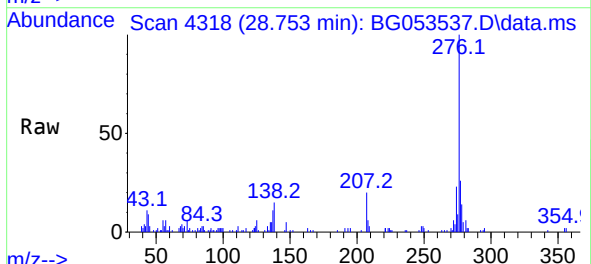
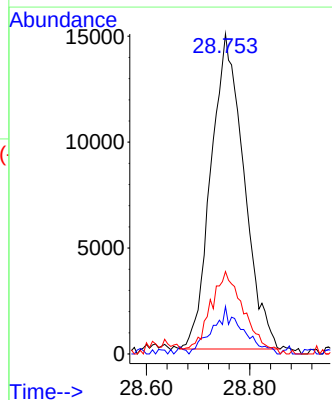
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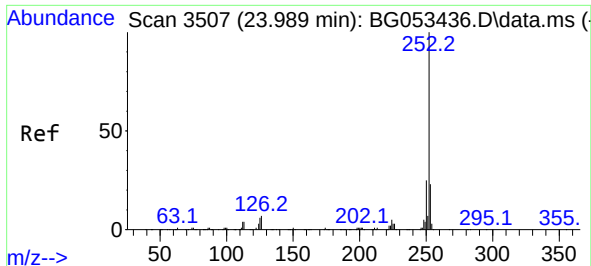
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.643 ng  
RT: 28.753 min Scan# 4318  
Delta R.T. -0.026 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Tgt Ion:276 Resp: 65764  
Ion Ratio Lower Upper  
276 100  
138 13.7 5.0 7.4#  
277 27.1 20.3 30.5





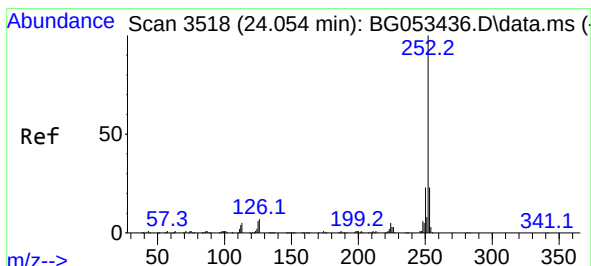
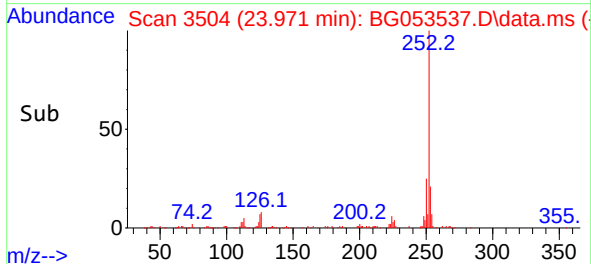
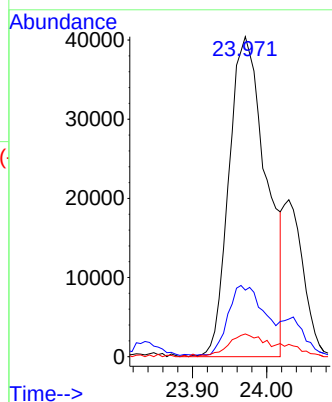
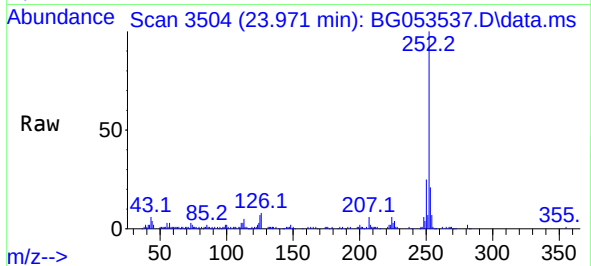
#88  
Benzo(b)fluoranthene  
Concen: 11.733 ng  
RT: 23.971 min Scan# 3504  
Delta R.T. -0.009 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Instrument :  
BNA\_G  
ClientSampleId :  
TP-7

Tgt Ion:252 Resp: 141249  
Ion Ratio Lower Upper  
252 100  
253 20.8 18.0 27.0  
125 7.1 4.6 6.8

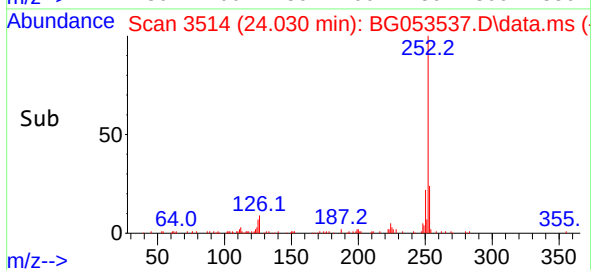
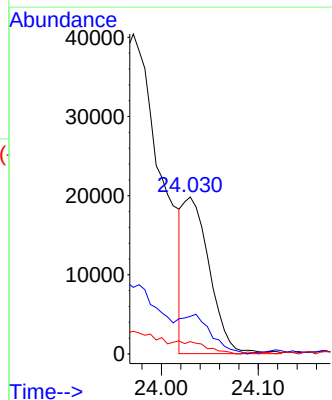
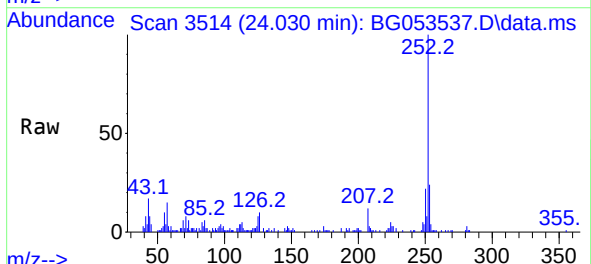
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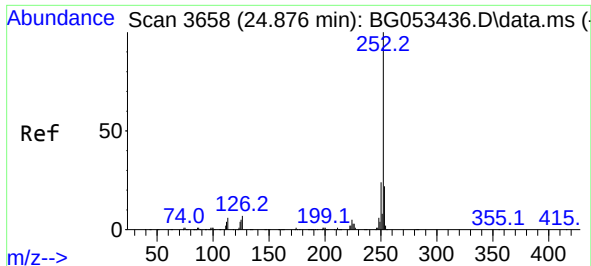
Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#89  
Benzo(k)fluoranthene  
Concen: 3.181 ng m  
RT: 24.030 min Scan# 3514  
Delta R.T. -0.014 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

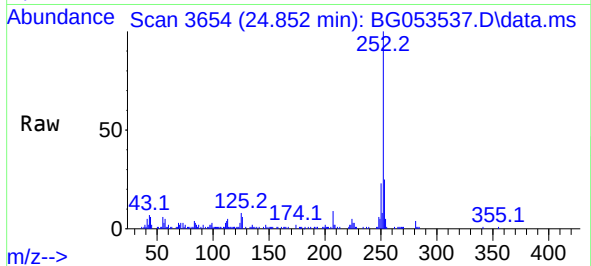
Tgt Ion:252 Resp: 37624  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.4 27.6  
125 7.8 4.8 7.2#





#90  
Benzo(a)pyrene  
Concen: 8.375 ng  
RT: 24.852 min Scan# 30  
Delta R.T. -0.014 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

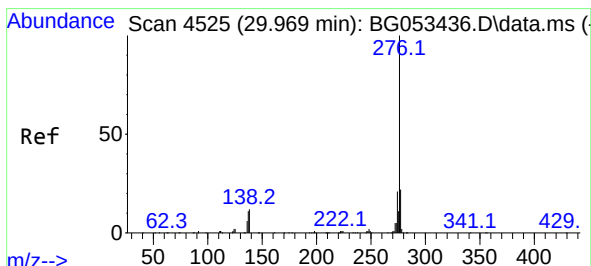
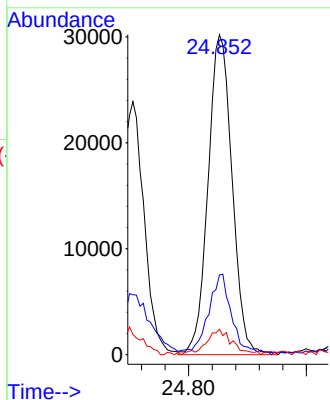
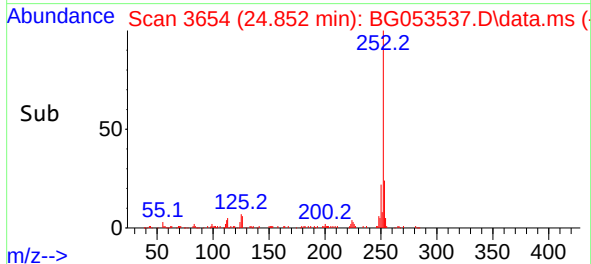
Instrument :  
BNA\_G  
ClientSampleId :  
TP-7



Tgt Ion:252 Resp: 8581  
Ion Ratio Lower Upper  
252 100  
253 24.9 17.8 26.8  
125 8.0 4.3 6.5

Manual Integrations  
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Reviewed By :Christian Giraldo 05/16/2022  
Supervised By :Jagrut Upadhyay 05/16/2022



#92  
Benzo(g,h,i)perylene  
Concen: 5.670 ng  
RT: 29.928 min Scan# 4518  
Delta R.T. -0.026 min  
Lab File: BG053537.D  
Acq: 13 May 2022 11:05

Tgt Ion:276 Resp: 65596  
Ion Ratio Lower Upper  
276 100  
277 22.7 17.3 25.9  
138 12.8 9.6 14.4

