

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG022123\  
 Data File : BG056688.D  
 Acq On : 21 Feb 2023 17:32  
 Operator : CG/JU  
 Sample : 01552-11  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-06-0-2.0

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 02/22/2023  
 Supervised By : Jagrut Upadhyay 02/22/2023

Quant Time: Feb 21 18:07:46 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG021523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Feb 21 18:07:35 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.438  | 152  | 23029    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 11.275 | 136  | 89240    | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 15.036 | 164  | 58617    | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.774 | 188  | 123195   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 22.092 | 240  | 99733    | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 25.653 | 264  | 106469   | 20.000  | ng    | 0.03     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.946  | 112  | 166372   | 117.547 | ng    | 0.01     |
| 7) Phenol-d6                  | 7.562  | 99   | 232357   | 111.138 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.607  | 82   | 152415   | 87.448  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.516 | 330  | 87465    | 108.985 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.667 | 172  | 341598   | 78.035  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.341 | 244  | 471232   | 77.305  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 52) Acenaphthene              | 15.100 | 154  | 8448     | 2.399   | ng    | 96       |
| 66) n-Nitrosodiphenylamine    | 16.264 | 169  | 15163    | 4.231   | ng    | 93       |
| 71) Phenanthrene              | 17.815 | 178  | 119378   | 17.811  | ng    | 98       |
| 72) Anthracene                | 17.903 | 178  | 40128    | 5.851   | ng    | 97       |
| 75) Fluoranthene              | 19.801 | 202  | 264573   | 29.917  | ng    | 99       |
| 78) Pyrene                    | 20.159 | 202  | 242766   | 32.231  | ng    | 99       |
| 81) Benzo(a)anthracene        | 22.069 | 228  | 133343   | 17.978  | ng    | 95       |
| 83) Chrysene                  | 22.145 | 228  | 123281m  | 17.780  | ng    |          |
| 84) Bis(2-ethylhexyl)phtha... | 21.934 | 149  | 7064     | 2.084   | ng    | # 88     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.742 | 276  | 49044m   | 5.882   | ng    |          |
| 88) Benzo(b)fluoranthene      | 24.513 | 252  | 154749   | 22.248  | ng    | # 88     |
| 89) Benzo(k)fluoranthene      | 24.577 | 252  | 67266m   | 9.834   | ng    |          |
| 90) Benzo(a)pyrene            | 25.476 | 252  | 109211   | 16.334  | ng    | # 92     |
| 92) Benzo(g,h,i)perylene      | 31.035 | 276  | 45945m   | 6.809   | ng    |          |
| -----                         |        |      |          |         |       |          |

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

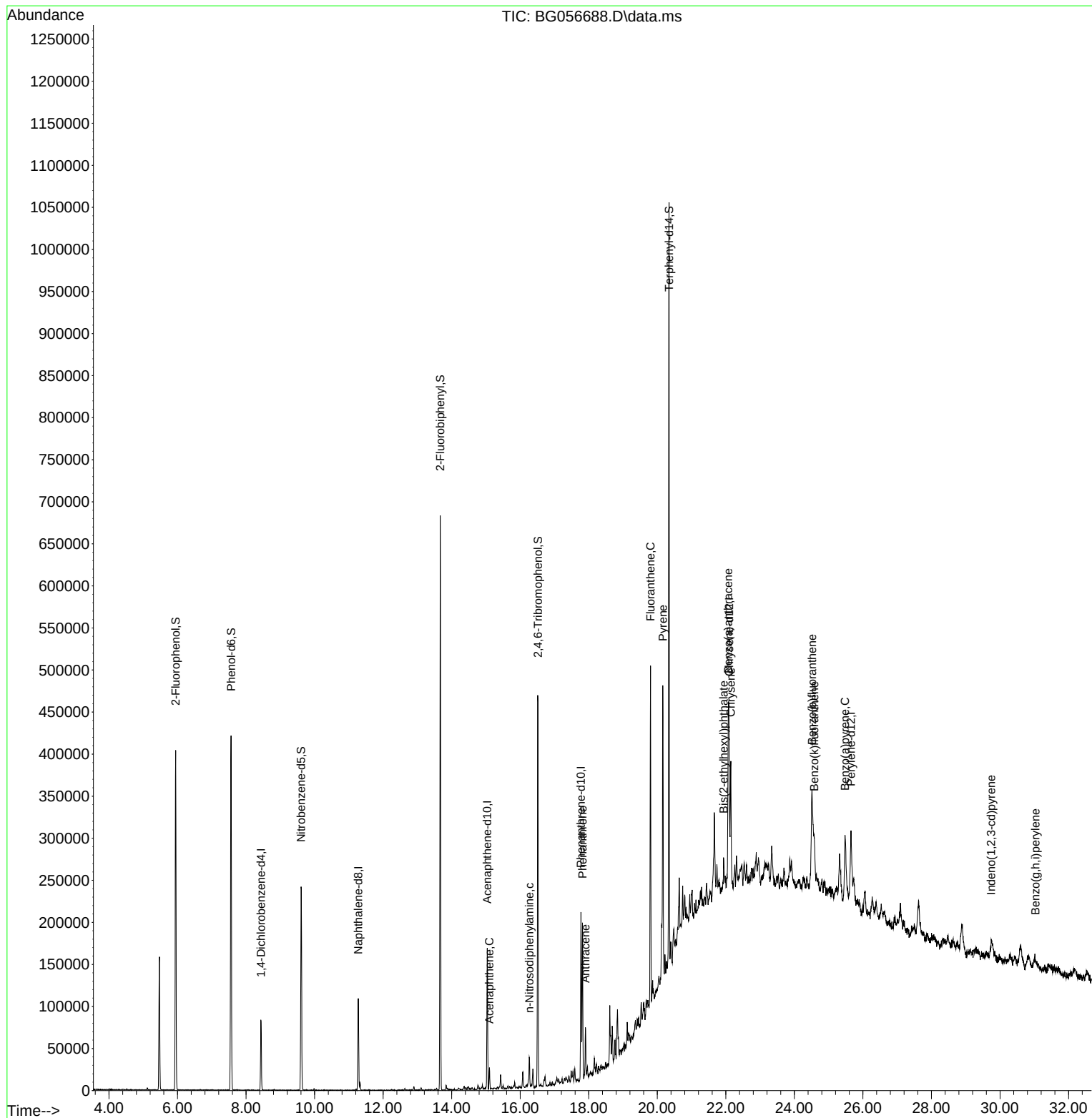
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG022123\  
Data File : BG056688.D  
Acq On : 21 Feb 2023 17:32  
Operator : CG/JU  
Sample : 01552-11  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

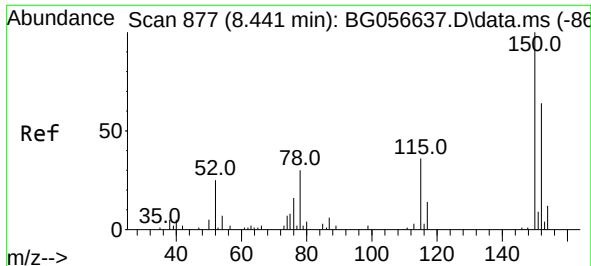
Instrument :  
BNA\_G  
ClientSampleId :  
SB-06-0-2.0

Quant Time: Feb 21 18:07:46 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG021523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Feb 21 18:07:35 2023  
Response via : Initial Calibration

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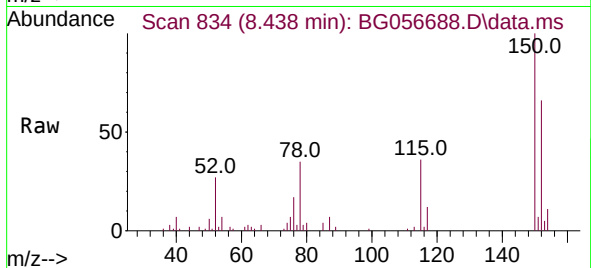
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.438 min Scan# 84  
Delta R.T. 0.009 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

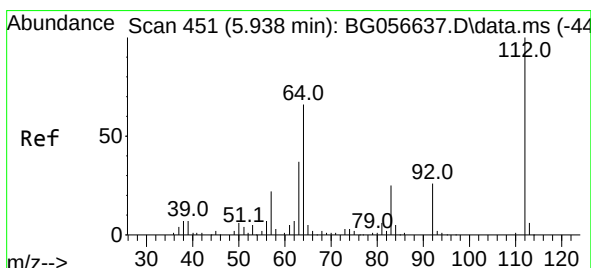
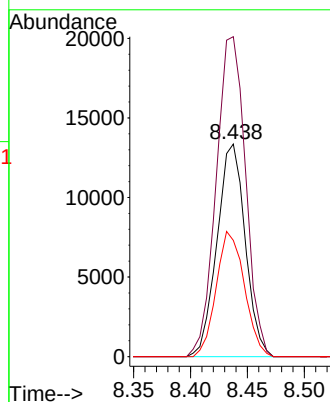
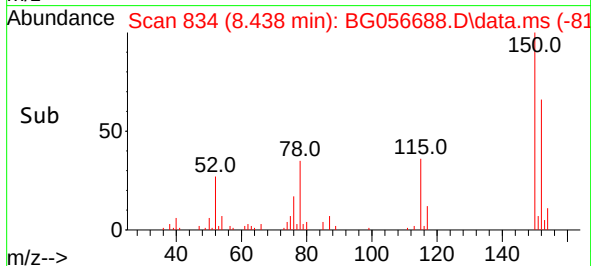
Instrument :  
BNA\_G  
ClientSampleId :  
SB-06-0-2.0



Tgt Ion:152 Resp: 23029  
Ion Ratio Lower Upper  
152 100  
150 150.6 124.8 187.2  
115 54.7 44.7 67.1

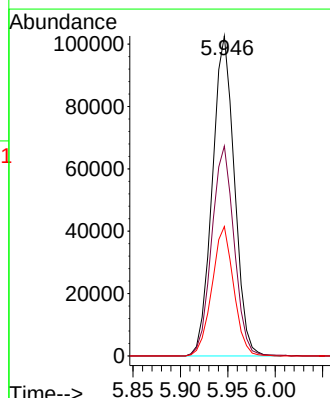
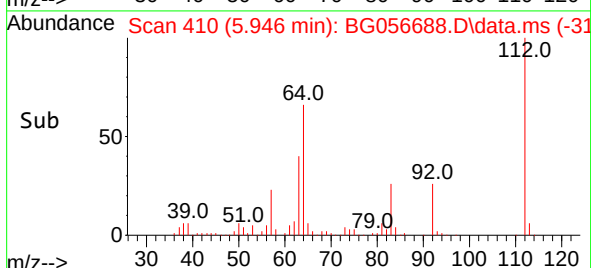
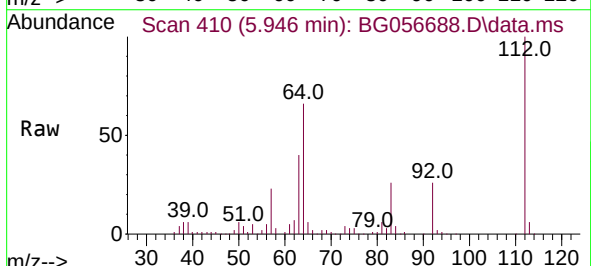
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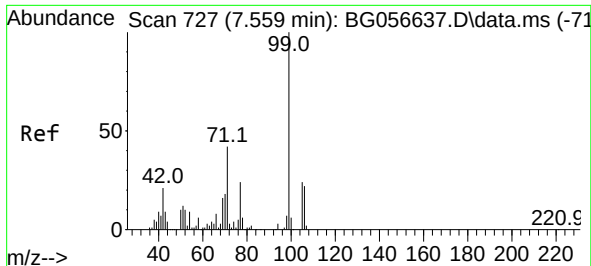
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#5  
2-Fluorophenol  
Concen: 117.547 ng  
RT: 5.946 min Scan# 410  
Delta R.T. 0.014 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

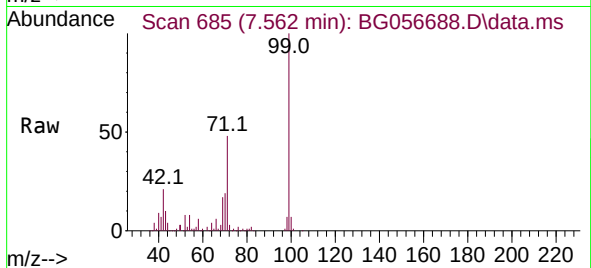
Tgt Ion:112 Resp: 166372  
Ion Ratio Lower Upper  
112 100  
64 65.6 52.6 78.8  
63 40.4 29.8 44.6





#7  
Phenol-d6  
Concen: 111.138 ng  
RT: 7.562 min Scan# 685  
Delta R.T. 0.009 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

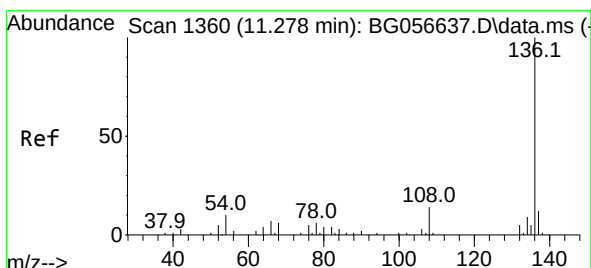
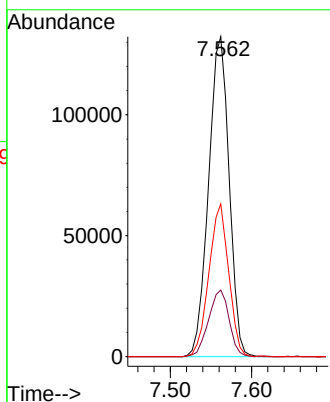
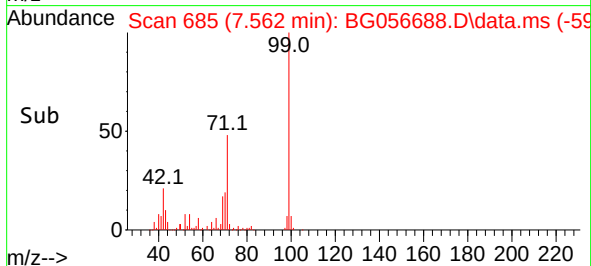
Instrument :  
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ClientSampleId :  
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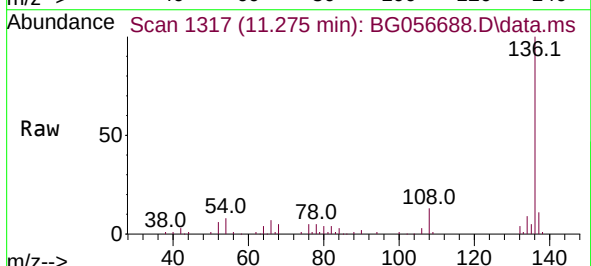
Tgt Ion: 99 Resp: 232352  
Ion Ratio Lower Upper  
99 100  
42 20.8 16.8 25.2  
71 47.8 33.9 50.9

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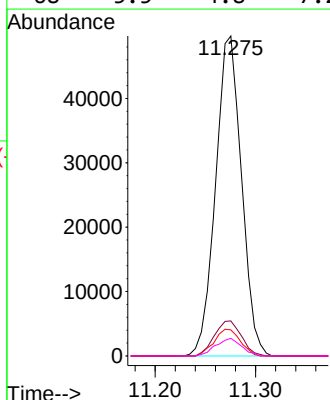
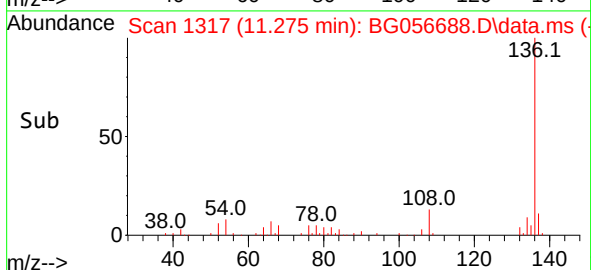
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023

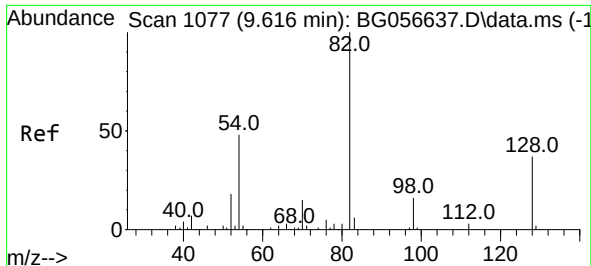


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.275 min Scan# 1317  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32



Tgt Ion:136 Resp: 89240  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.7 14.5  
54 8.1 7.7 11.5  
68 5.5 4.8 7.2





#23  
Nitrobenzene-d5  
Concen: 87.448 ng  
RT: 9.607 min Scan# 1077  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

Instrument :

BNA\_G

ClientSampleId :

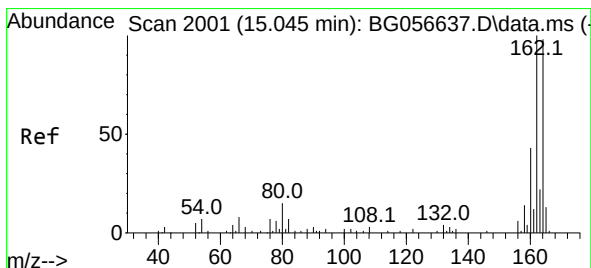
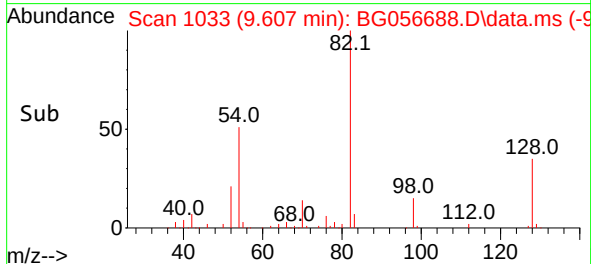
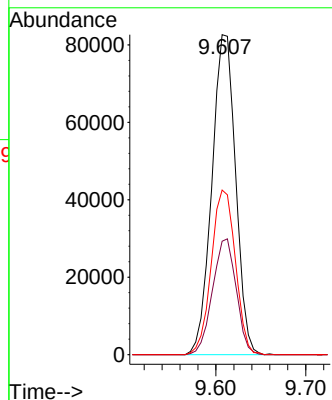
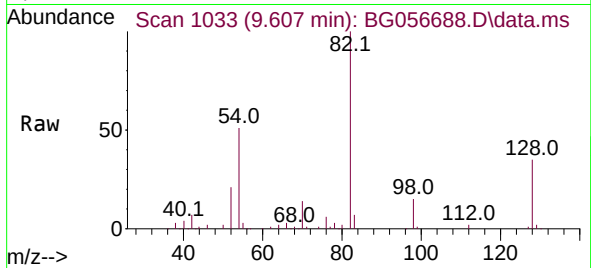
SB-06-0-2.0

Tgt Ion: 82 Resp: 152415  
Ion Ratio Lower Upper  
82 100  
128 35.4 29.4 44.2  
54 51.4 37.8 56.6

Manual Integrations

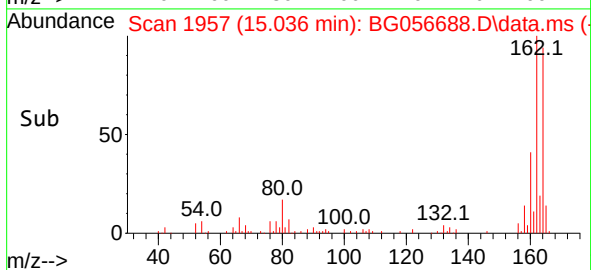
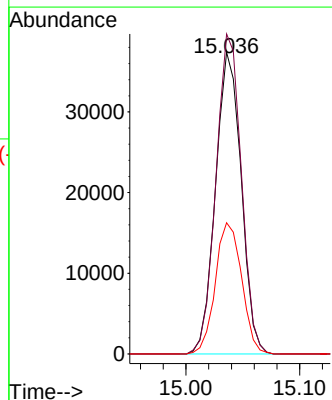
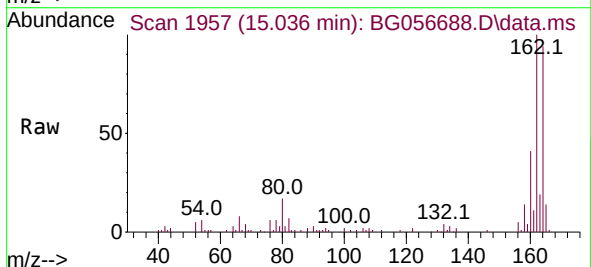
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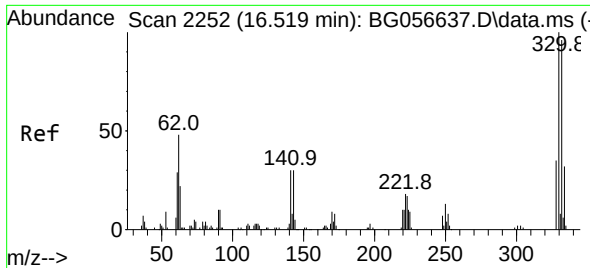
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 15.036 min Scan# 1957  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

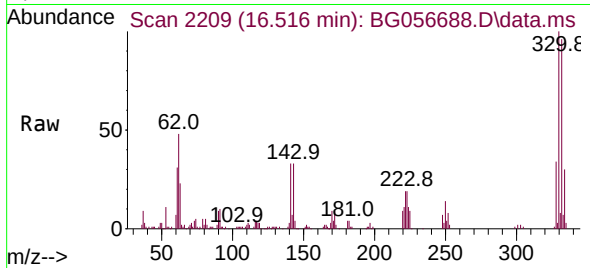
Tgt Ion:164 Resp: 58617  
Ion Ratio Lower Upper  
164 100  
162 106.1 81.3 121.9  
160 43.5 35.2 52.8





#42  
2,4,6-Tribromophenol  
Concen: 108.985 ng  
RT: 16.516 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

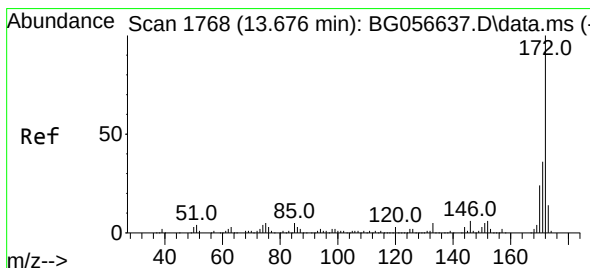
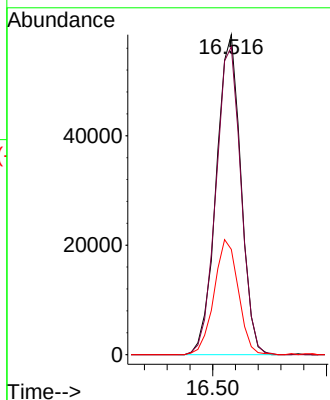
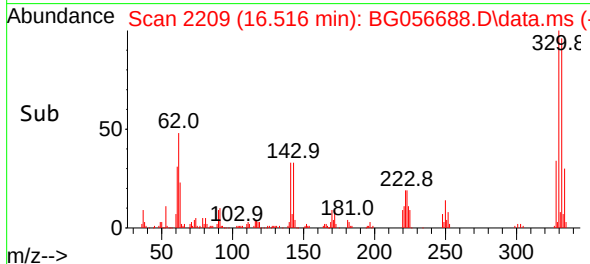
Instrument :  
BNA\_G  
ClientSampleId :  
SB-06-0-2.0



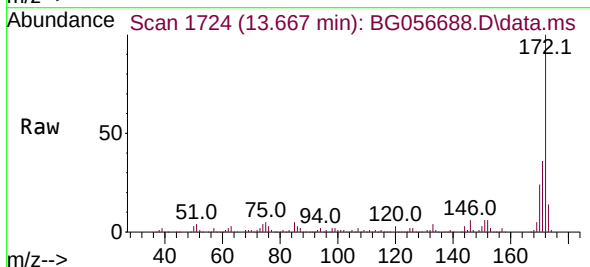
Tgt Ion:330 Resp: 87465  
Ion Ratio Lower Upper  
330 100  
332 97.7 75.7 113.5  
141 35.6 24.6 37.0

Manual Integrations  
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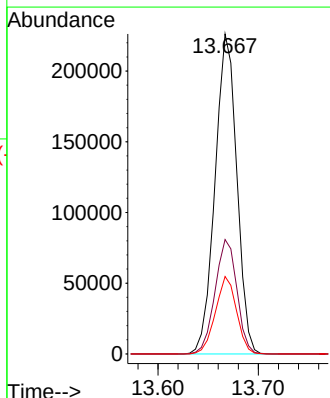
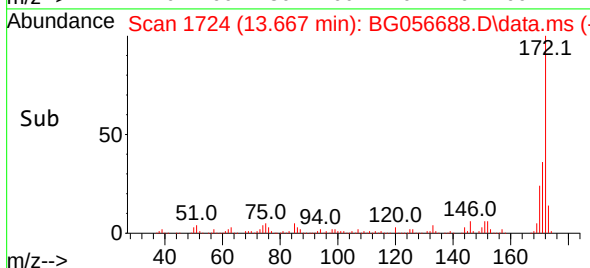
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023

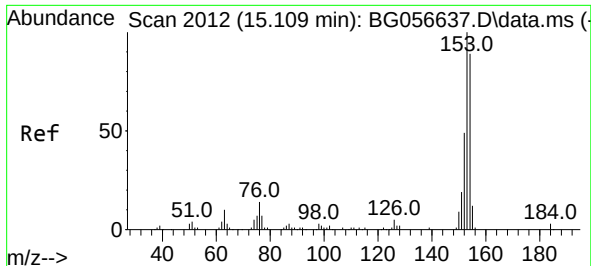


#45  
2-Fluorobiphenyl  
Concen: 78.035 ng  
RT: 13.667 min Scan# 1724  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32



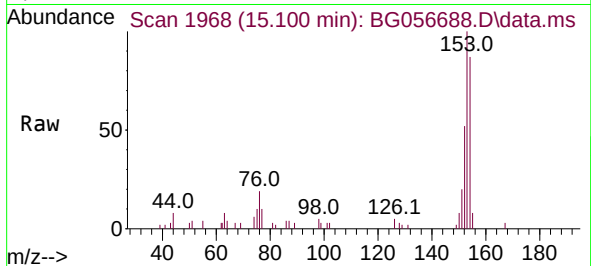
Tgt Ion:172 Resp: 341598  
Ion Ratio Lower Upper  
172 100  
171 35.7 28.6 43.0  
170 24.2 19.4 29.0





#52  
Acenaphthene  
Concen: 2.399 ng  
RT: 15.100 min Scan# 1968  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

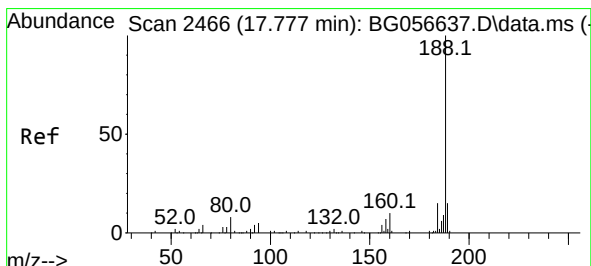
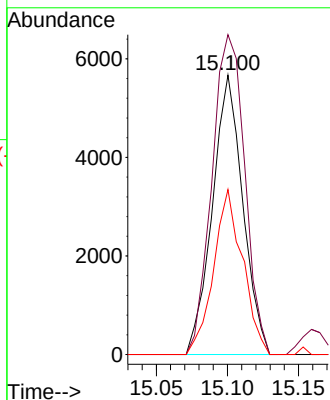
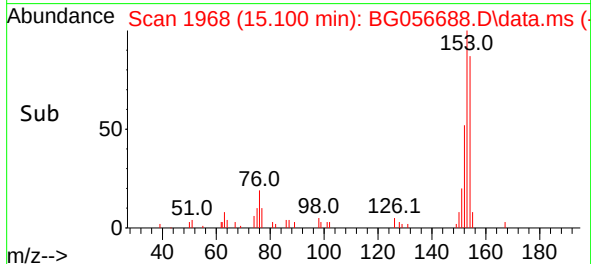
Instrument :  
BNA\_G  
ClientSampleId :  
SB-06-0-2.0



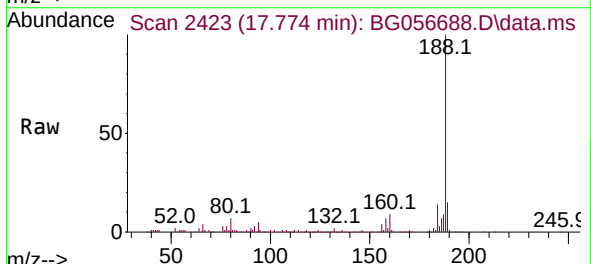
Tgt Ion:154 Resp: 8448  
Ion Ratio Lower Upper  
154 100  
153 114.5 89.5 134.3  
152 59.1 43.7 65.5

Manual Integrations  
APPROVED

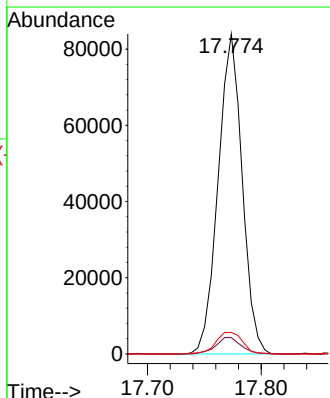
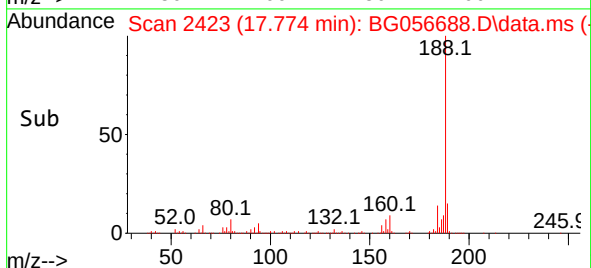
Reviewed By :Christian Giraldo 02/22/2023  
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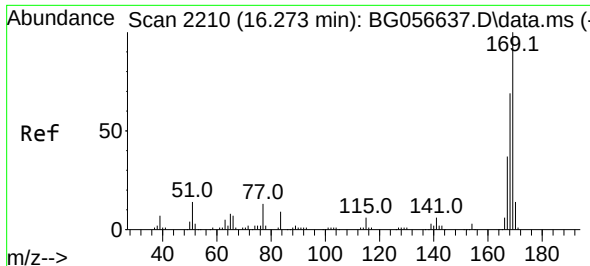


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.774 min Scan# 2423  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32



Tgt Ion:188 Resp: 123195  
Ion Ratio Lower Upper  
188 100  
94 5.9 4.0 6.0  
80 6.7 6.3 9.5





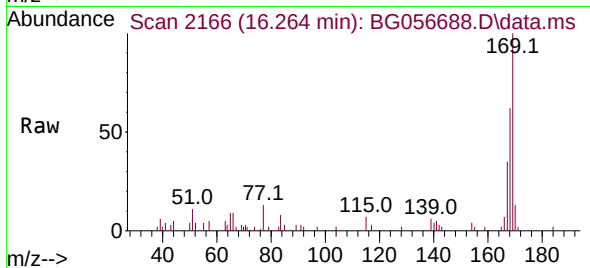
#66  
n-Nitrosodiphenylamine  
Concen: 4.231 ng  
RT: 16.264 min Scan# 2166  
Delta R.T. -0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

Instrument :

BNA\_G

ClientSampleId :

SB-06-0-2.0

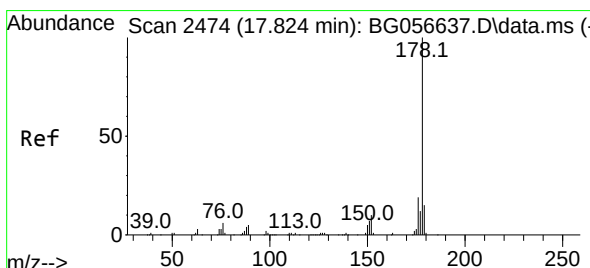
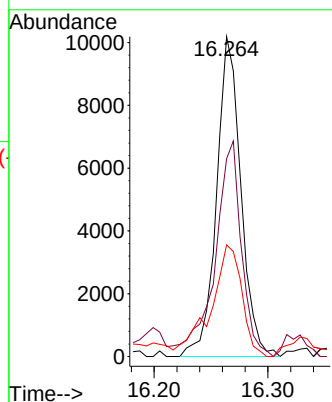
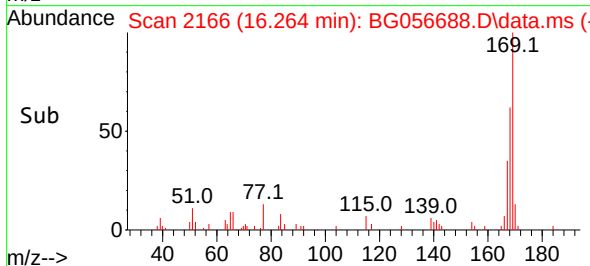


| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 169     | 100   |       |       |
| 168     | 61.8  | 55.5  | 83.3  |
| 167     | 34.9  | 29.5  | 44.3  |

Manual Integrations

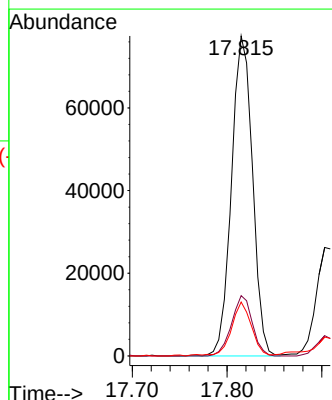
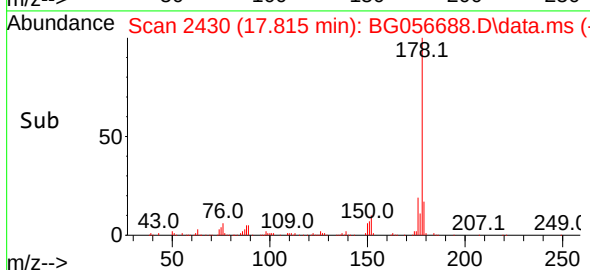
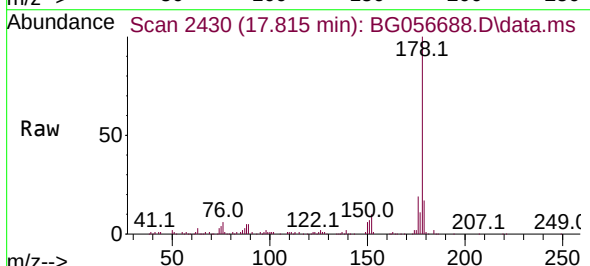
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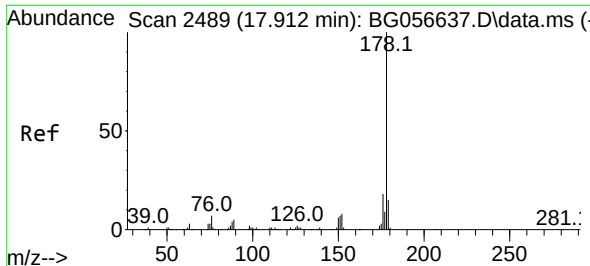


#71  
Phenanthrene  
Concen: 17.811 ng  
RT: 17.815 min Scan# 2430  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.8  | 15.4  | 23.2  |
| 179     | 16.8  | 12.2  | 18.4  |

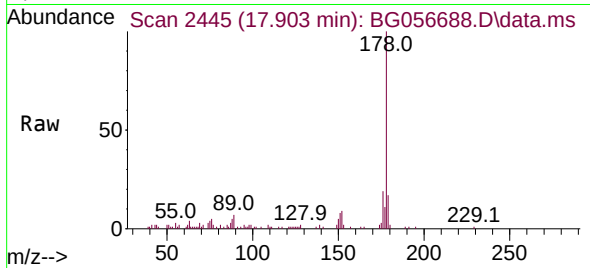






#72  
 Anthracene  
 Concen: 5.851 ng  
 RT: 17.903 min Scan# 2489  
 Delta R.T. -0.003 min  
 Lab File: BG056688.D  
 Acq: 21 Feb 2023 17:32

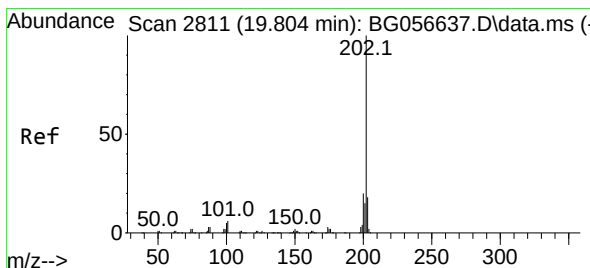
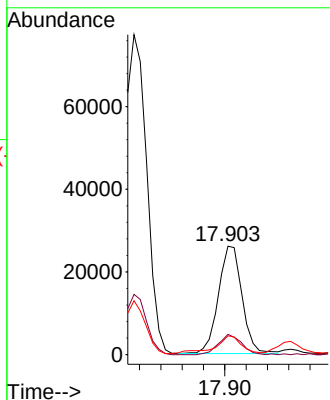
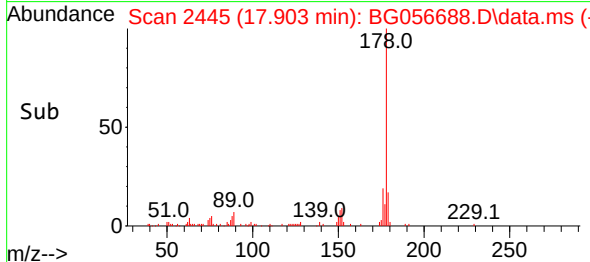
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-06-0-2.0



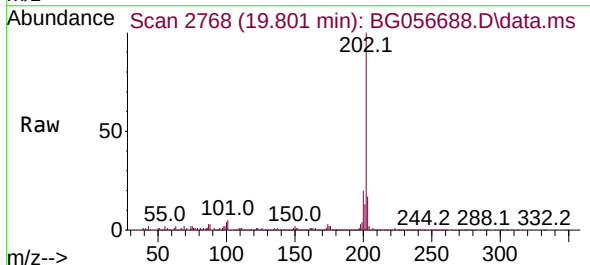
Tgt Ion:178 Resp: 40128  
 Ion Ratio Lower Upper  
 178 100  
 176 18.8 14.3 21.5  
 179 17.4 12.2 18.4

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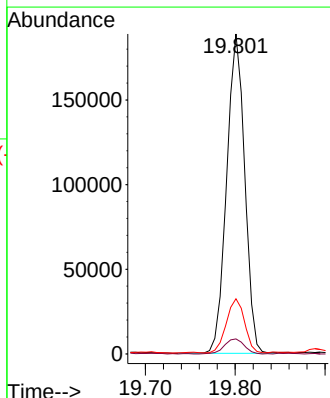
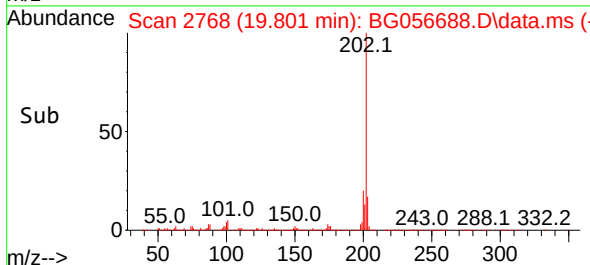
Reviewed By :Christian Giraldo 02/22/2023  
 Supervised By :Jagrut Upadhyay 02/22/2023

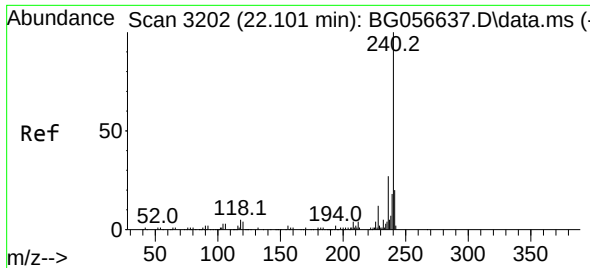


#75  
 Fluoranthene  
 Concen: 29.917 ng  
 RT: 19.801 min Scan# 2768  
 Delta R.T. 0.003 min  
 Lab File: BG056688.D  
 Acq: 21 Feb 2023 17:32



Tgt Ion:202 Resp: 264573  
 Ion Ratio Lower Upper  
 202 100  
 101 4.7 0.0 25.8  
 203 17.2 0.0 37.6





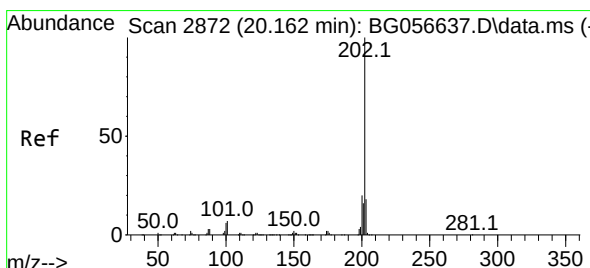
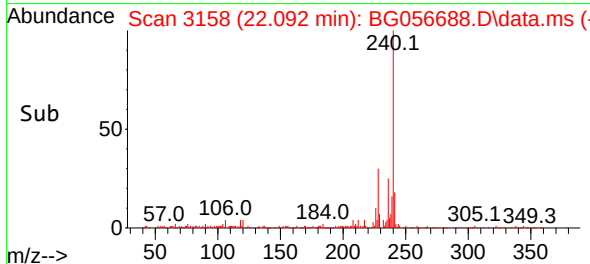
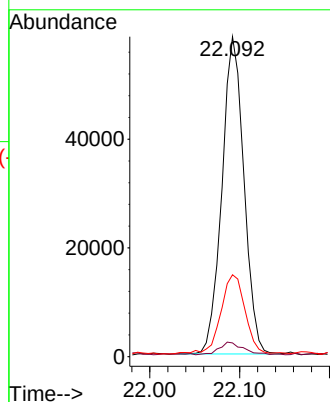
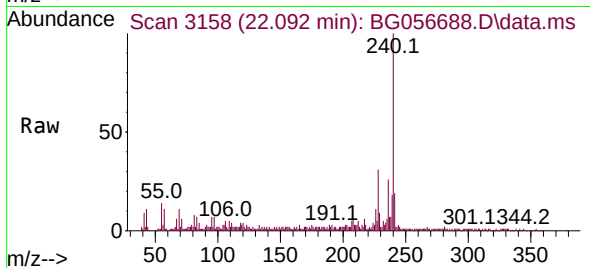
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 22.092 min Scan# 3158  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

Instrument :  
BNA\_G  
ClientSampleId :  
SB-06-0-2.0

Tgt Ion:240 Resp: 99733  
Ion Ratio Lower Upper  
240 100  
120 4.3 3.5 5.3  
236 25.6 21.5 32.3

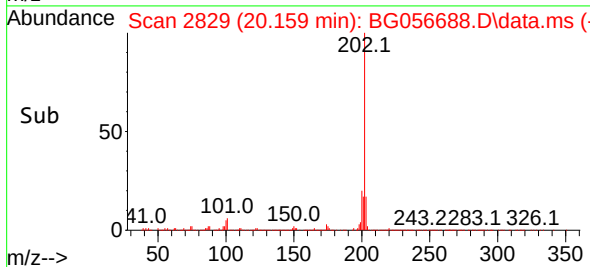
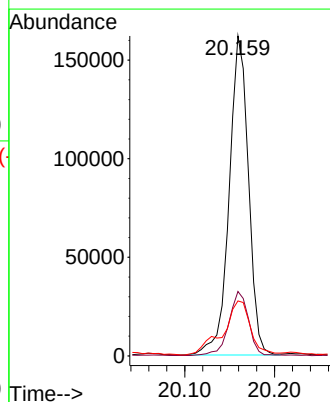
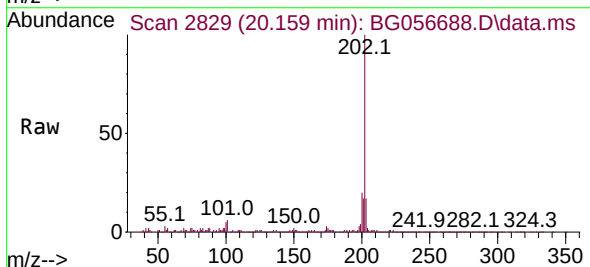
Manual Integrations  
APPROVED

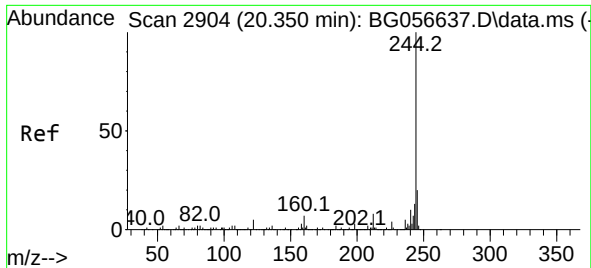
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#78  
Pyrene  
Concen: 32.231 ng  
RT: 20.159 min Scan# 2829  
Delta R.T. 0.003 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

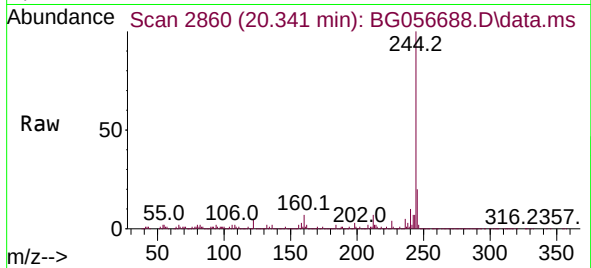
Tgt Ion:202 Resp: 242766  
Ion Ratio Lower Upper  
202 100  
200 20.1 15.8 23.8  
203 17.2 14.2 21.4





#79  
 Terphenyl-d14  
 Concen: 77.305 ng  
 RT: 20.341 min Scan# 2860  
 Delta R.T. 0.003 min  
 Lab File: BG056688.D  
 Acq: 21 Feb 2023 17:32

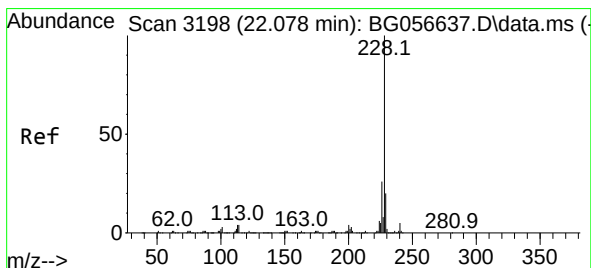
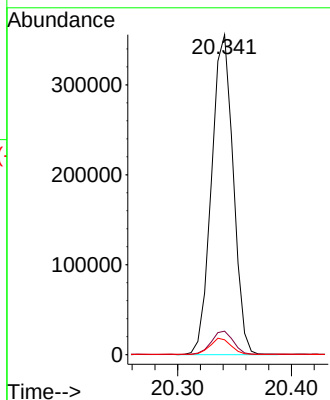
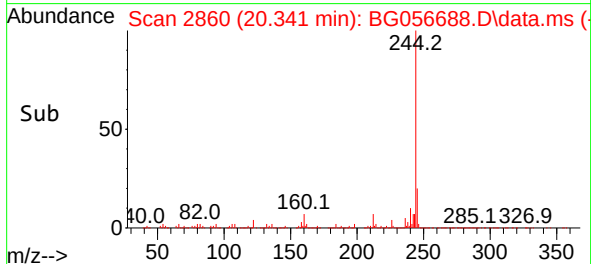
Instrument :  
 BNA\_G  
 ClientSampleId :  
 SB-06-0-2.0



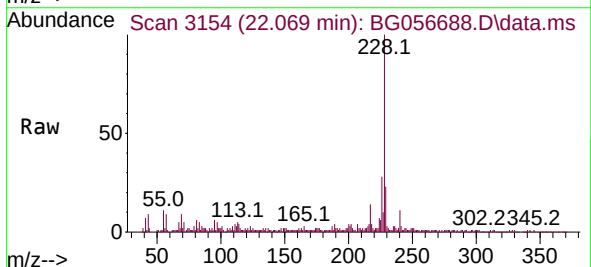
Tgt Ion:244 Resp: 471232  
 Ion Ratio Lower Upper  
 244 100  
 212 7.3 6.0 9.0  
 122 4.6 3.8 5.8

Manual Integrations  
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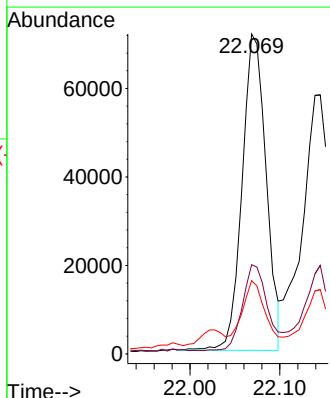
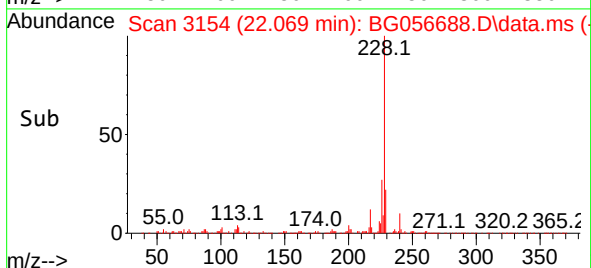
Reviewed By :Christian Giraldo 02/22/2023  
 Supervised By :Jagrut Upadhyay 02/22/2023

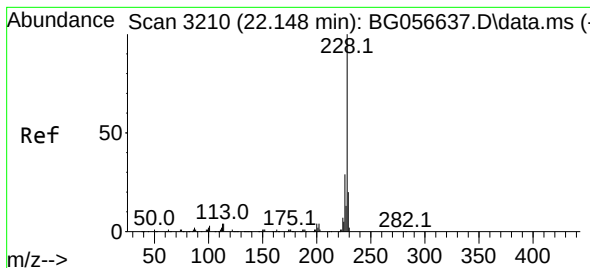


#81  
 Benzo(a)anthracene  
 Concen: 17.978 ng  
 RT: 22.069 min Scan# 3154  
 Delta R.T. 0.003 min  
 Lab File: BG056688.D  
 Acq: 21 Feb 2023 17:32



Tgt Ion:228 Resp: 133343  
 Ion Ratio Lower Upper  
 228 100  
 226 27.9 20.4 30.6  
 229 22.9 16.0 24.0





#83

Chrysene

Concen: 17.780 ng m

RT: 22.145 min Scan# 3167

Delta R.T. 0.009 min

Lab File: BG056688.D

Acq: 21 Feb 2023 17:32

Instrument :

BNA\_G

ClientSampleId :

SB-06-0-2.0

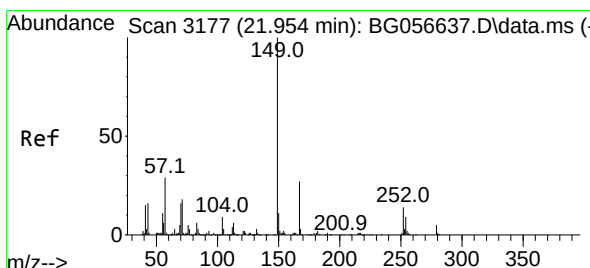
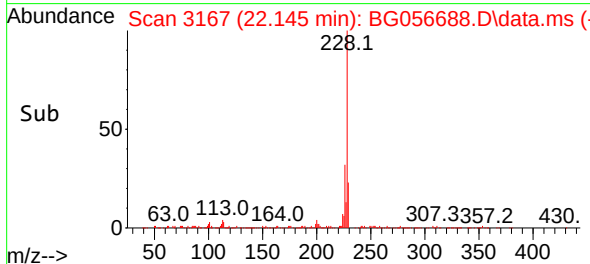
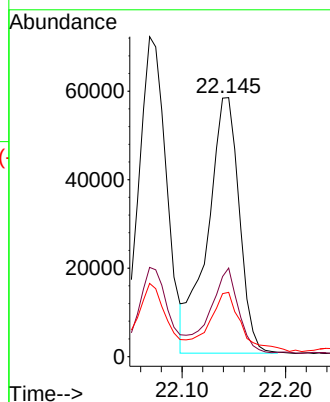
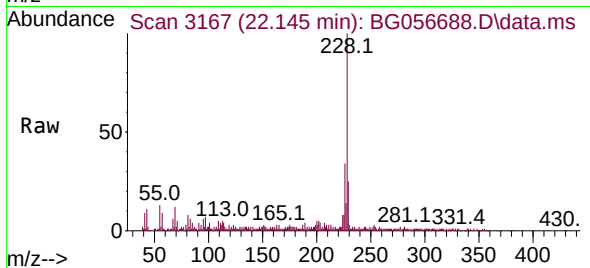
Tgt Ion:228 Resp: 123281

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 34.2  | 23.0  | 34.6  |
| 229 | 24.8  | 15.8  | 23.8  |

Manual Integrations

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Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.084 ng

RT: 21.934 min Scan# 3131

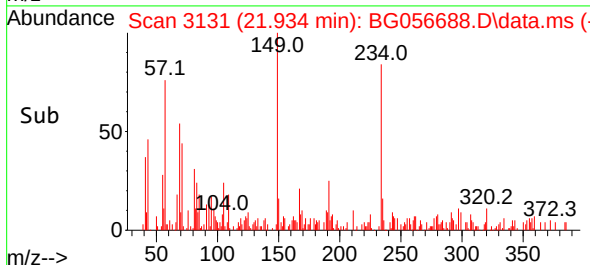
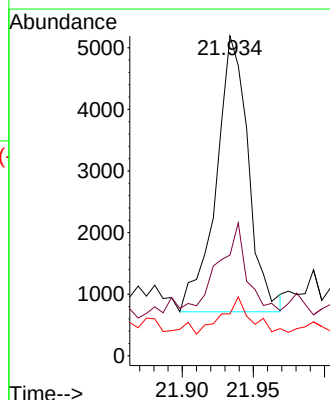
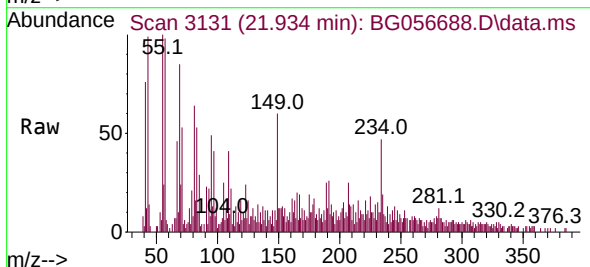
Delta R.T. -0.003 min

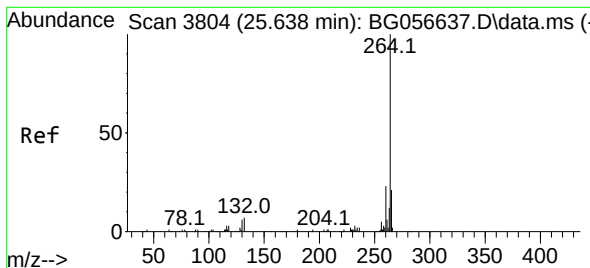
Lab File: BG056688.D

Acq: 21 Feb 2023 17:32

Tgt Ion:149 Resp: 7064

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 149 | 100   |       |       |
| 167 | 31.5  | 21.4  | 32.0  |
| 279 | 13.1  | 4.1   | 6.1   |





#86

Perylene-d12

Concen: 20.000 ng

RT: 25.653 min Scan# 31

Delta R.T. 0.032 min

Lab File: BG056688.D

Acq: 21 Feb 2023 17:32

Instrument :

BNA\_G

ClientSampleId :

SB-06-0-2.0

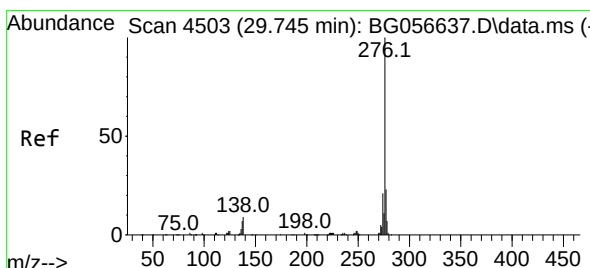
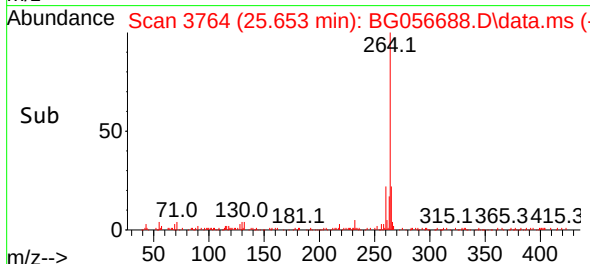
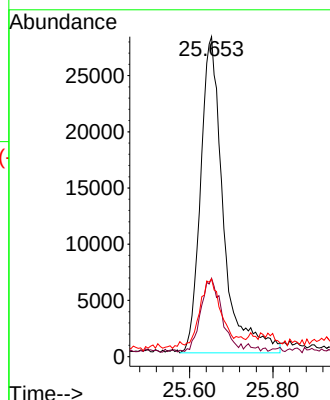
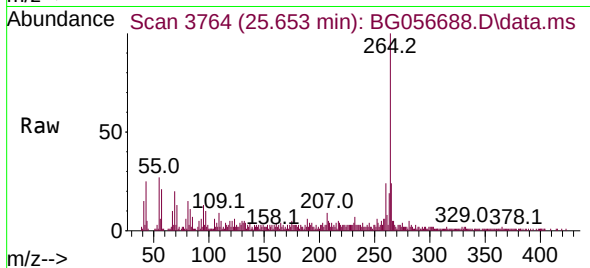
Tgt Ion:264 Resp: 106469

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.5  | 18.6  | 27.8  |
| 265 | 24.3  | 17.0  | 25.4  |

Manual Integrations

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Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.882 ng m

RT: 29.742 min Scan# 4460

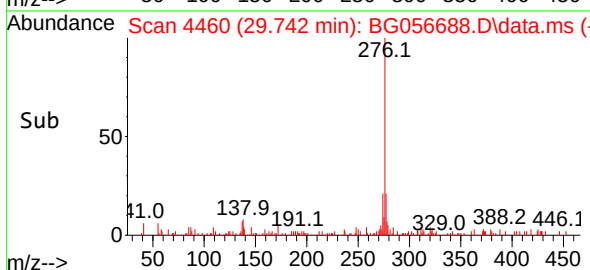
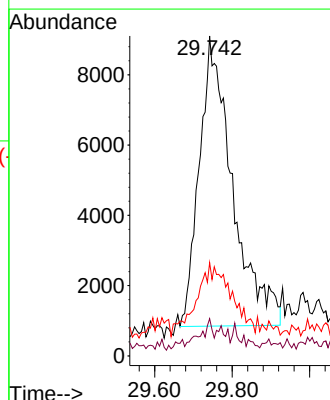
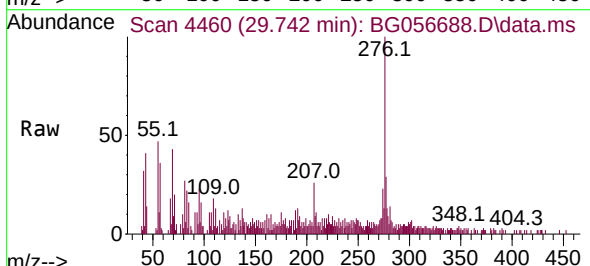
Delta R.T. 0.032 min

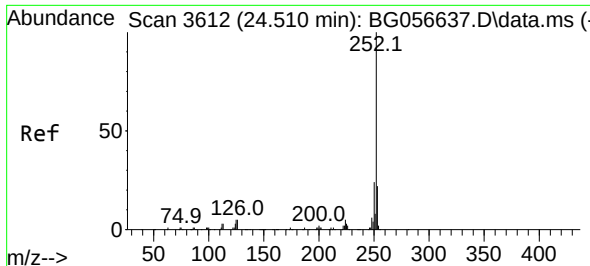
Lab File: BG056688.D

Acq: 21 Feb 2023 17:32

Tgt Ion:276 Resp: 49044

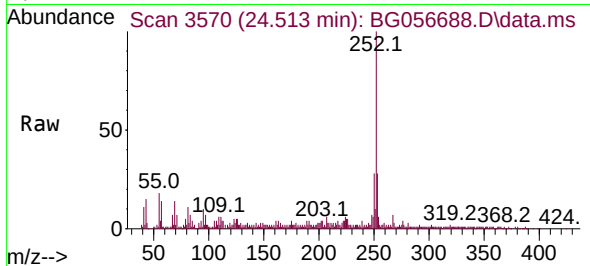
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 2.6   | 3.8   | 5.8#  |
| 277 | 12.5  | 20.3  | 30.5# |





#88  
Benzo(b)fluoranthene  
Concen: 22.248 ng  
RT: 24.513 min Scan# 3570  
Delta R.T. 0.020 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

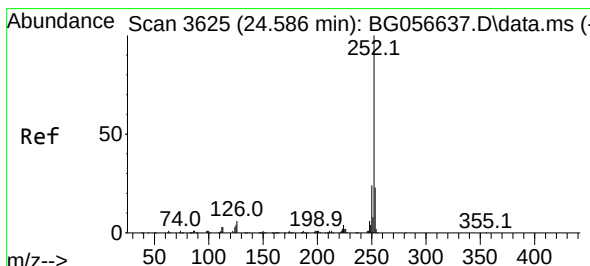
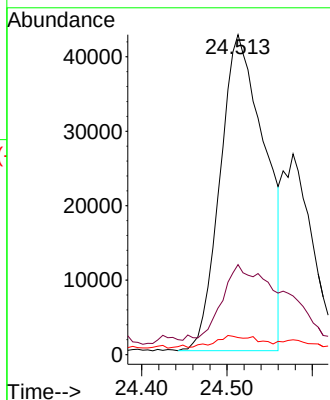
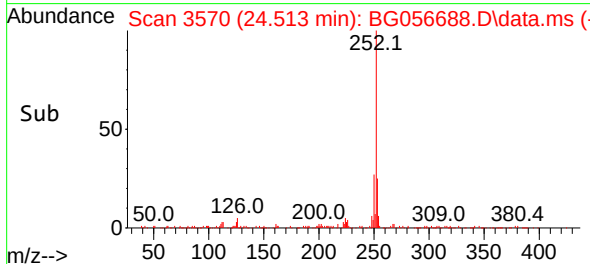
Instrument :  
BNA\_G  
ClientSampleId :  
SB-06-0-2.0



Tgt Ion:252 Resp: 154749  
Ion Ratio Lower Upper  
252 100  
253 28.1 17.3 25.9#  
125 5.3 3.7 5.5

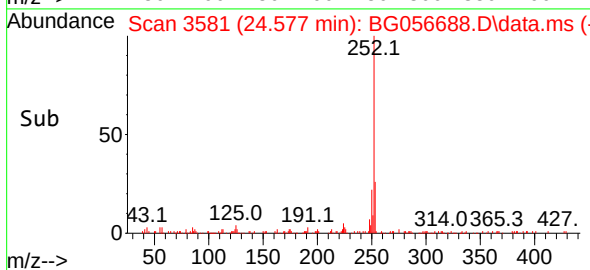
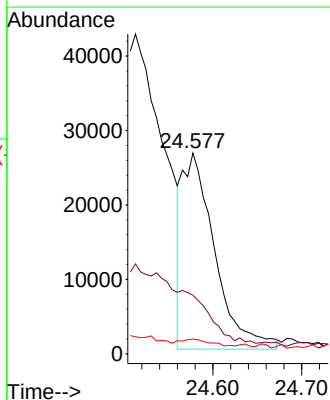
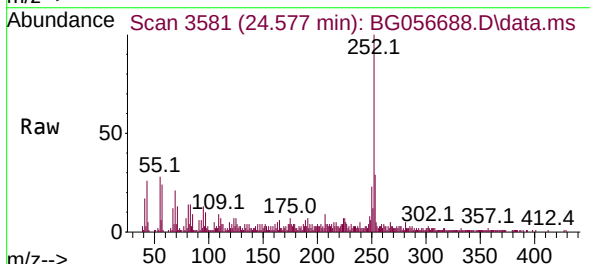
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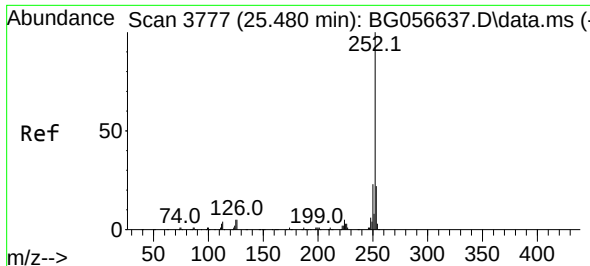
Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#89  
Benzo(k)fluoranthene  
Concen: 9.834 ng m  
RT: 24.577 min Scan# 3581  
Delta R.T. 0.009 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

Tgt Ion:252 Resp: 67266  
Ion Ratio Lower Upper  
252 100  
253 29.2 18.5 27.7#  
125 7.3 3.4 5.0#





#90  
Benzo(a)pyrene  
Concen: 16.334 ng  
RT: 25.476 min Scan# 31  
Delta R.T. 0.014 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

Instrument :

BNA\_G

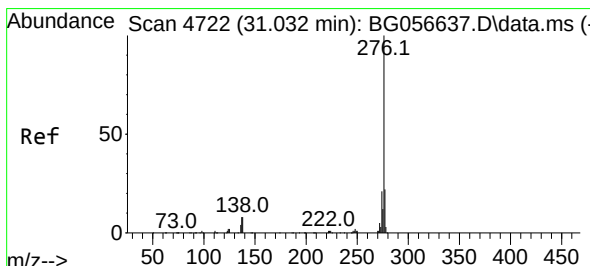
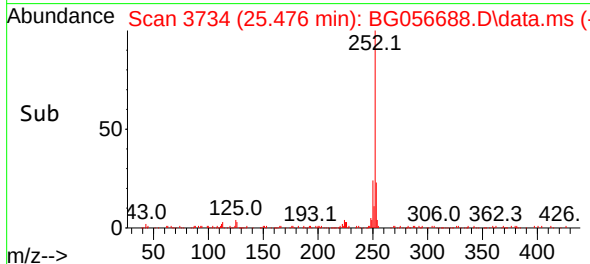
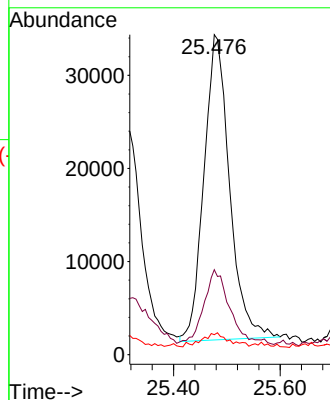
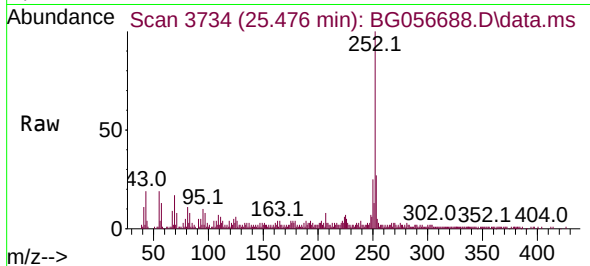
ClientSampleId :

SB-06-0-2.0

Tgt Ion:252 Resp: 10921  
Ion Ratio Lower Upper  
252 100  
253 26.5 17.9 26.9  
125 6.3 4.0 6.0

Manual Integrations  
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Reviewed By :Christian Giraldo 02/22/2023  
Supervised By :Jagrut Upadhyay 02/22/2023



#92  
Benzo(g,h,i)perylene  
Concen: 6.809 ng m  
RT: 31.035 min Scan# 4680  
Delta R.T. 0.038 min  
Lab File: BG056688.D  
Acq: 21 Feb 2023 17:32

Tgt Ion:276 Resp: 45945  
Ion Ratio Lower Upper  
276 100  
277 25.5 17.5 26.3  
138 5.4 6.4 9.6

