

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG111122\  
 Data File : BG055583.D  
 Acq On : 12 Nov 2022 2:34  
 Operator : CG/JU  
 Sample : N5509-07  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-12

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 11/12/2022  
 Supervised By : Jagrut Upadhyay 11/12/2022

Quant Time: Nov 12 03:25:45 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG110922.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Nov 10 03:39:46 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-----------------------------|--------|------|----------|---------|-------|----------|
| -----                       |        |      |          |         |       |          |
| Internal Standards          |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.276  | 152  | 67302    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8          | 11.108 | 136  | 266810   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.897 | 164  | 169633   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.635 | 188  | 348768   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.936 | 240  | 319360   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12            | 25.373 | 264  | 296159   | 20.000  | ng    | 0.02     |
|                             |        |      |          |         |       |          |
| System Monitoring Compounds |        |      |          |         |       |          |
| 5) 2-Fluorophenol           | 5.808  | 112  | 376949   | 106.681 | ng    | 0.02     |
| 7) Phenol-d6                | 7.412  | 99   | 484517   | 99.269  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 9.445  | 82   | 310439   | 78.877  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.372 | 330  | 201914   | 121.994 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.522 | 172  | 662747   | 58.932  | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.220 | 244  | 899474   | 56.571  | ng    | 0.00     |
|                             |        |      |          |         |       |          |
| Target Compounds            |        |      |          |         |       | Qvalue   |
| 58) Fluorene                | 15.937 | 166  | 32692    | 2.596   | ng    | 96       |
| 71) Phenanthrene            | 17.676 | 178  | 143338   | 7.647   | ng    | 99       |
| 75) Fluoranthene            | 19.674 | 202  | 271203   | 12.133  | ng    | 99       |
| 78) Pyrene                  | 20.032 | 202  | 280586   | 12.982  | ng    | 98       |
| 81) Benzo(a)anthracene      | 21.913 | 228  | 183832   | 8.404   | ng    | 97       |
| 83) Chrysene                | 21.983 | 228  | 182803m  | 8.788   | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 29.322 | 276  | 81106m   | 3.596   | ng    |          |
| 88) Benzo(b)fluoranthene    | 24.275 | 252  | 251179   | 13.386  | ng    | 96       |
| 89) Benzo(k)fluoranthene    | 24.339 | 252  | 112962m  | 5.888   | ng    |          |
| 90) Benzo(a)pyrene          | 25.203 | 252  | 170790   | 10.566  | ng    | # 93     |
| 92) Benzo(g,h,i)perylene    | 30.555 | 276  | 70378m   | 3.856   | ng    |          |
| -----                       |        |      |          |         |       |          |

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

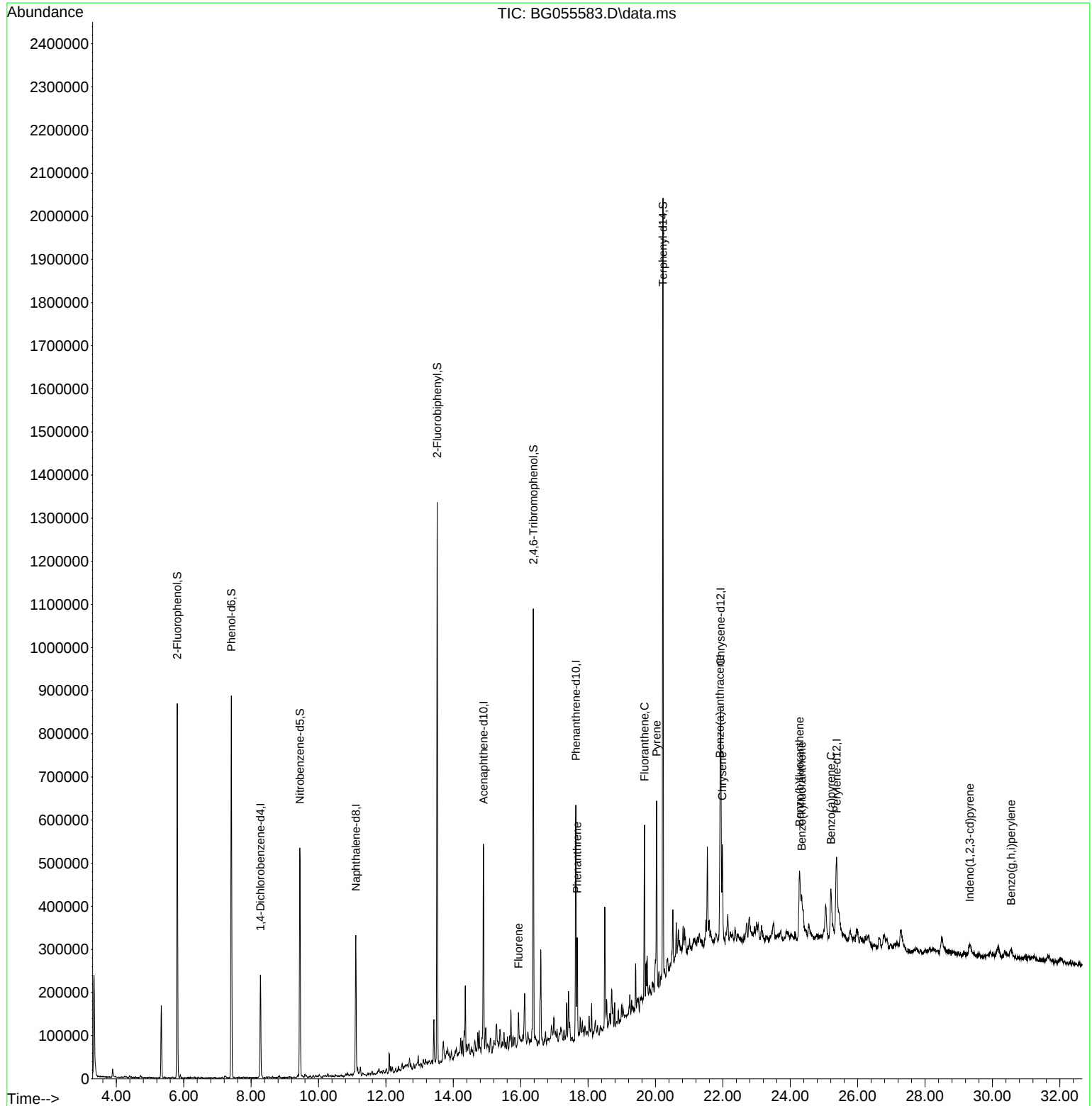
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG111122\  
Data File : BG055583.D  
Acq On : 12 Nov 2022 2:34  
Operator : CG/JU  
Sample : N5509-07  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

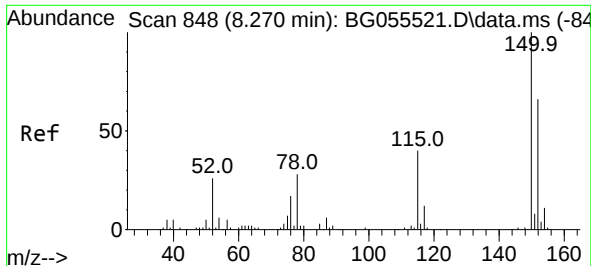
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12

Quant Time: Nov 12 03:25:45 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG110922.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Nov 10 03:39:46 2022  
Response via : Initial Calibration

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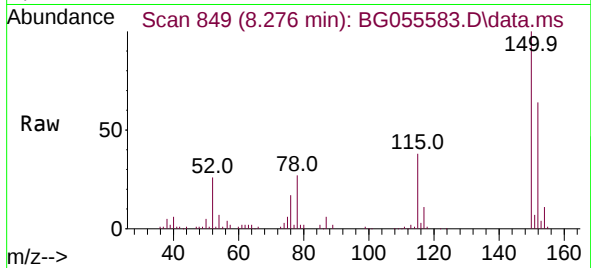
Reviewed By : Christian Giraldo 11/12/2022  
Supervised By : Jagrut Upadhyay 11/12/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.276 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

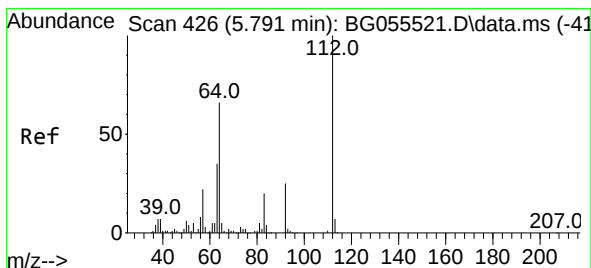
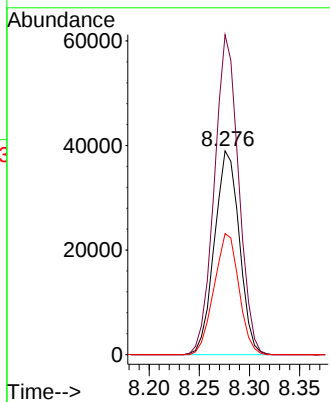
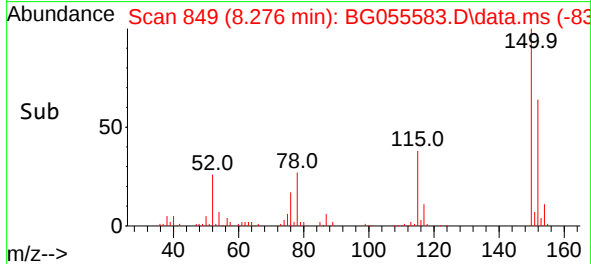
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12



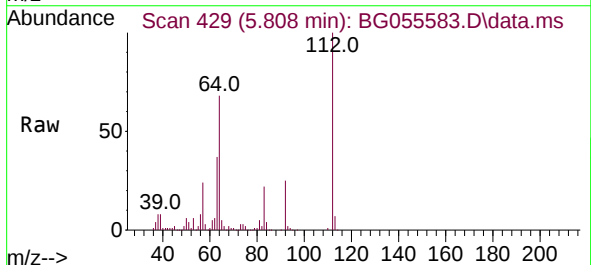
Tgt Ion:152 Resp: 67302  
Ion Ratio Lower Upper  
152 100  
150 157.0 121.0 181.4  
115 59.4 47.8 71.8

Manual Integrations  
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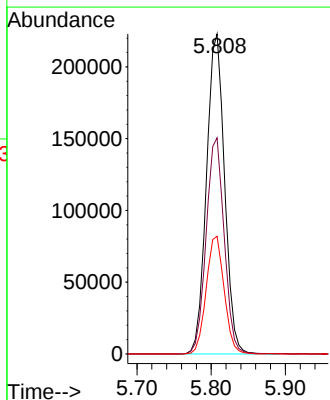
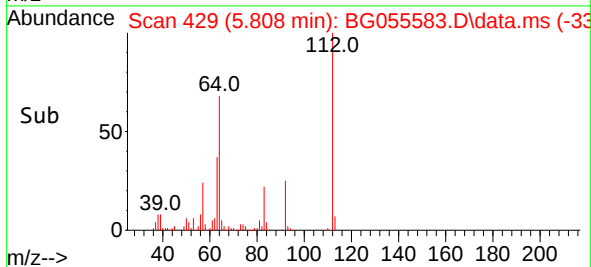
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

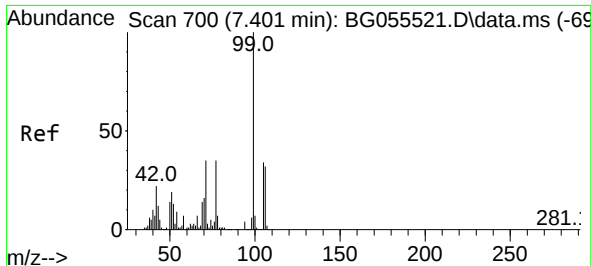


#5  
2-Fluorophenol  
Concen: 106.681 ng  
RT: 5.808 min Scan# 429  
Delta R.T. 0.017 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34



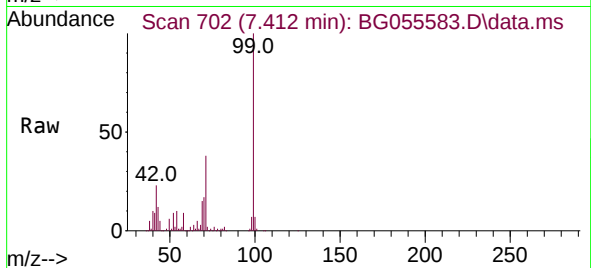
Tgt Ion:112 Resp: 376949  
Ion Ratio Lower Upper  
112 100  
64 67.5 52.6 78.8  
63 36.8 28.3 42.5





#7  
Phenol-d6  
Concen: 99.269 ng  
RT: 7.412 min Scan# 700  
Delta R.T. 0.011 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

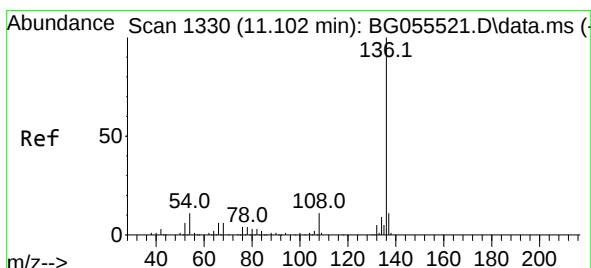
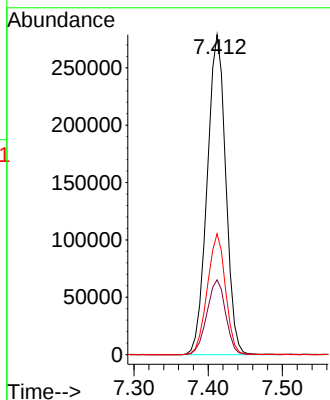
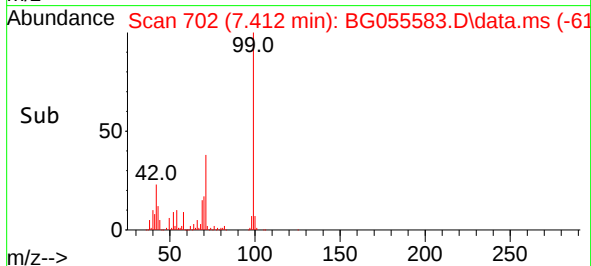
Instrument :  
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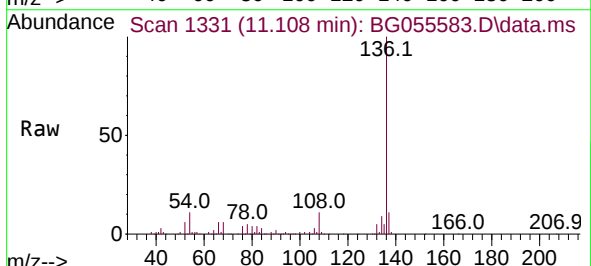
Tgt Ion: 99 Resp: 48451  
Ion Ratio Lower Upper  
99 100  
42 23.4 17.5 26.3  
71 37.8 28.3 42.5

Manual Integrations  
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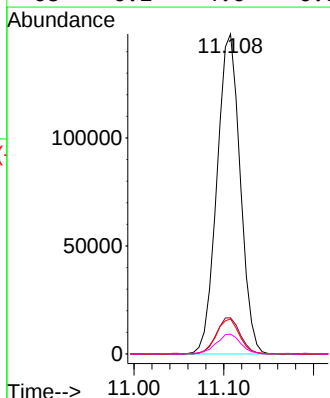
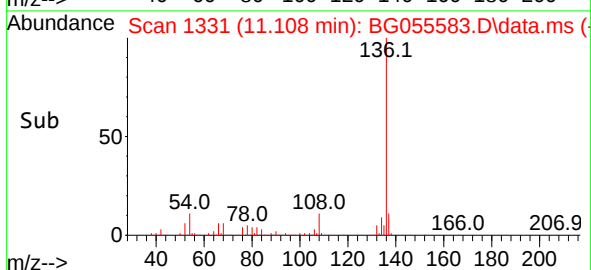
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

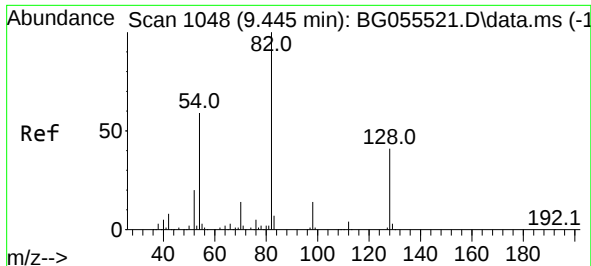


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.108 min Scan# 1331  
Delta R.T. 0.006 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34



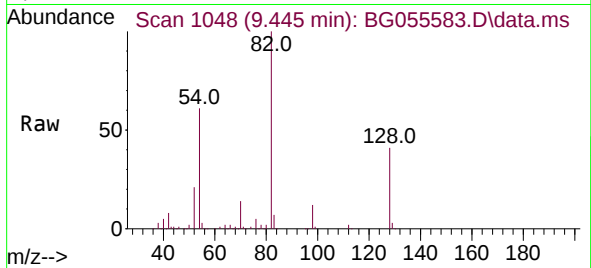
Tgt Ion:136 Resp: 266810  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.6 12.8  
54 10.9 8.6 12.8  
68 6.2 4.6 6.8





#23  
Nitrobenzene-d5  
Concen: 78.877 ng  
RT: 9.445 min Scan# 1048  
Delta R.T. -0.000 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

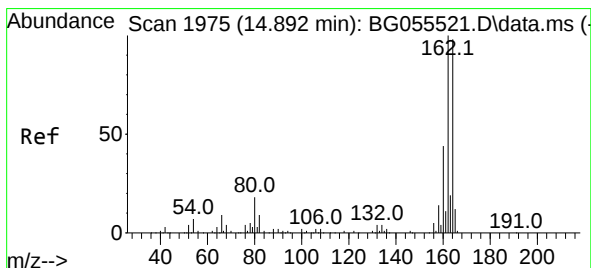
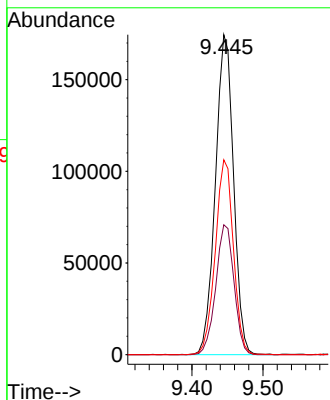
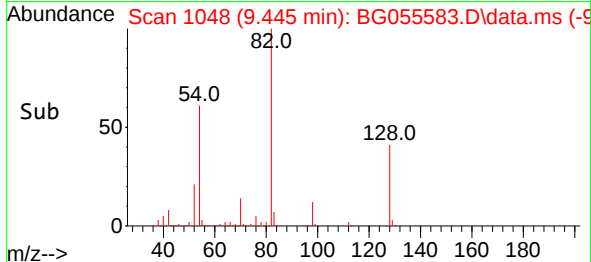
Instrument :  
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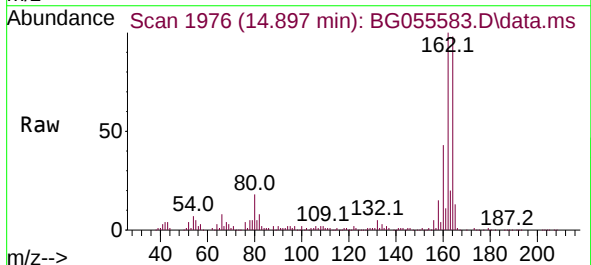
Tgt Ion: 82 Resp: 310439  
Ion Ratio Lower Upper  
82 100  
128 40.6 32.6 49.0  
54 60.9 47.3 70.9

Manual Integrations  
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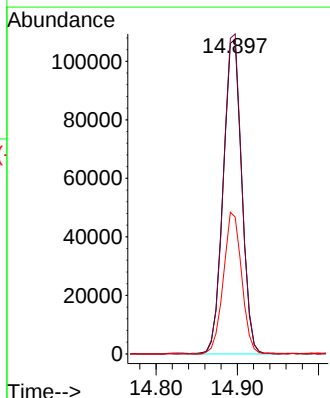
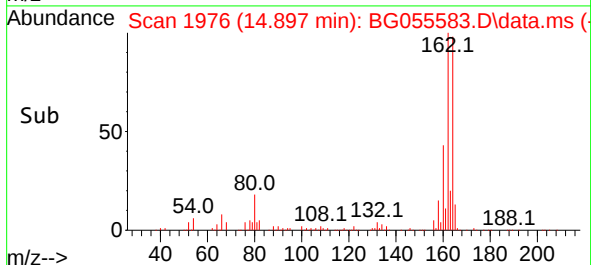
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

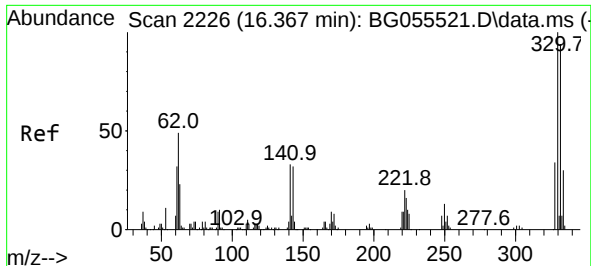


#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.897 min Scan# 1976  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34



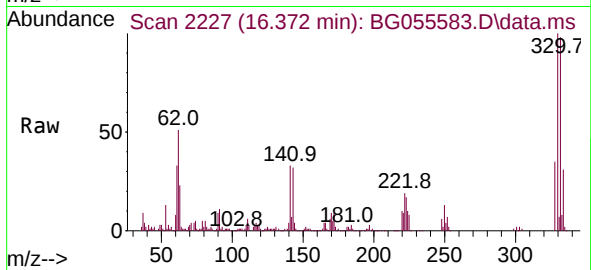
Tgt Ion:164 Resp: 169633  
Ion Ratio Lower Upper  
164 100  
162 101.7 81.3 121.9  
160 43.5 35.9 53.9





#42  
2,4,6-Tribromophenol  
Concen: 121.994 ng  
RT: 16.372 min Scan# 221  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

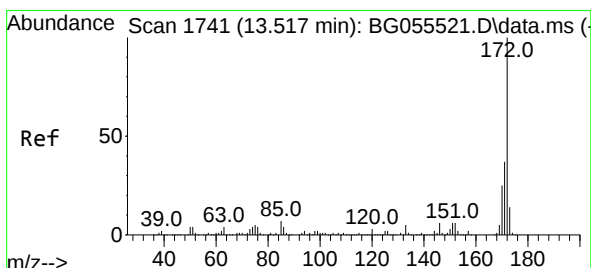
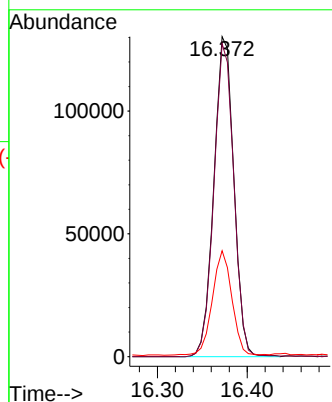
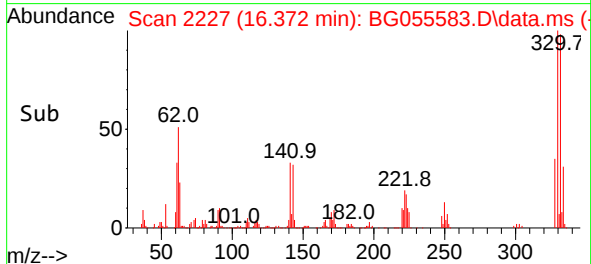
Instrument :  
BNA\_G  
ClientSampleId :  
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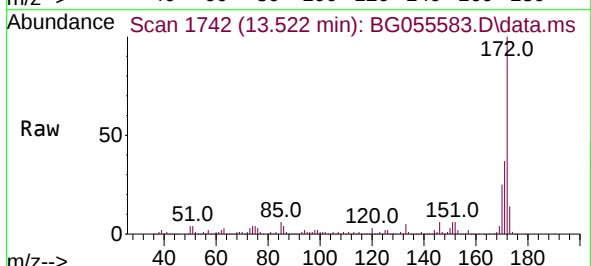
Tgt Ion:330 Resp: 201914  
Ion Ratio Lower Upper  
330 100  
332 97.5 77.4 116.2  
141 31.9 25.4 38.2

Manual Integrations  
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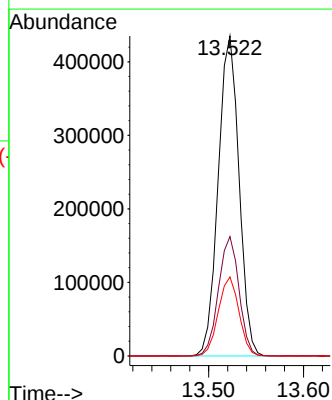
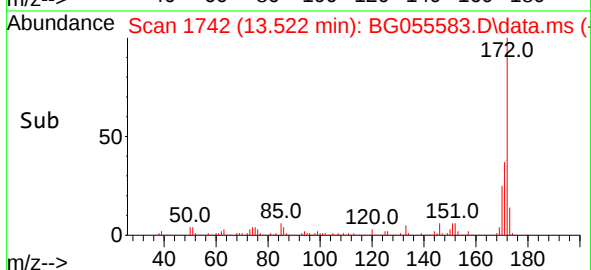
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

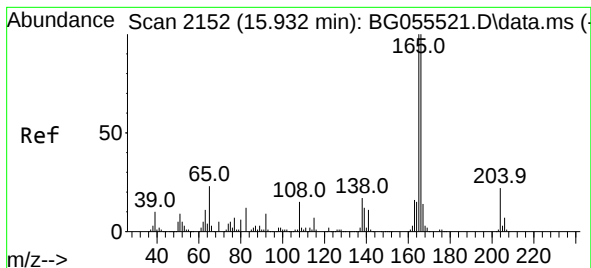


#45  
2-Fluorobiphenyl  
Concen: 58.932 ng  
RT: 13.522 min Scan# 1742  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34



Tgt Ion:172 Resp: 662747  
Ion Ratio Lower Upper  
172 100  
171 37.3 29.7 44.5  
170 24.7 19.8 29.6





#58

Fluorene

Concen: 2.596 ng

RT: 15.937 min Scan# 2152

Delta R.T. 0.005 min

Lab File: BG055583.D

Acq: 12 Nov 2022 2:34

Instrument :

BNA\_G

ClientSampleId :

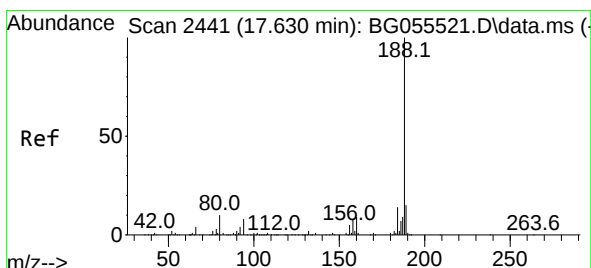
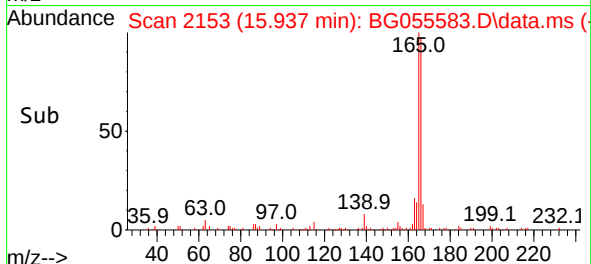
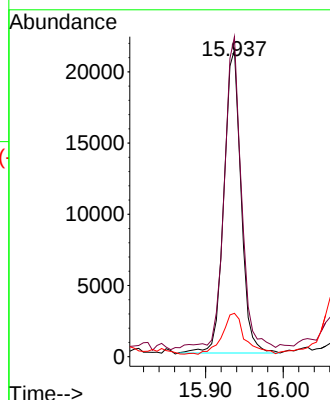
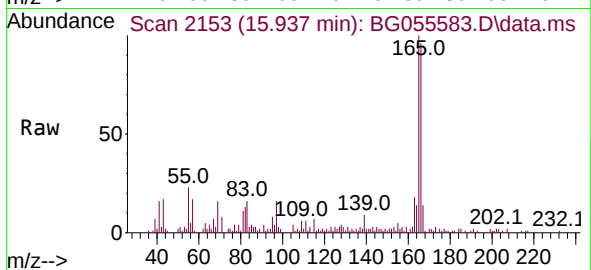
TP-12

Tgt Ion:166 Resp: 32692  
 Ion Ratio Lower Upper  
 166 100  
 165 104.3 80.2 120.2  
 167 14.1 11.2 16.8

Manual Integrations

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 Supervised By :Jagrut Upadhyay 11/12/2022



#64

Phenanthrene-d10

Concen: 20.000 ng

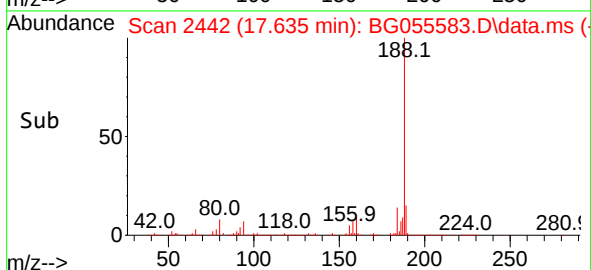
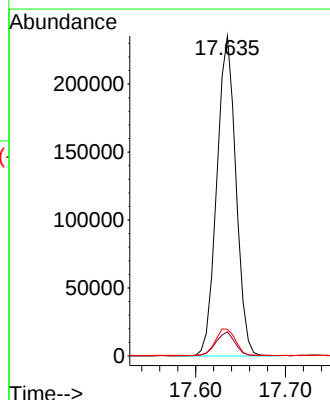
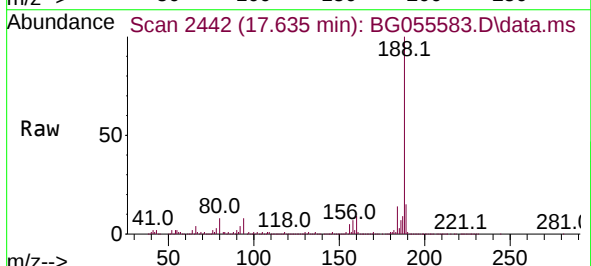
RT: 17.635 min Scan# 2442

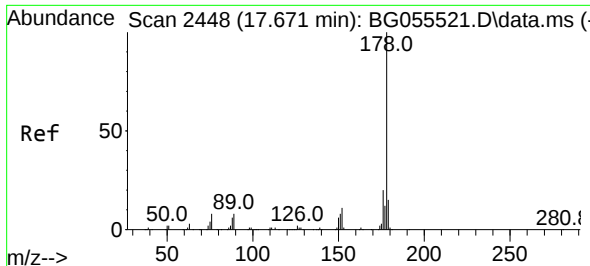
Delta R.T. 0.005 min

Lab File: BG055583.D

Acq: 12 Nov 2022 2:34

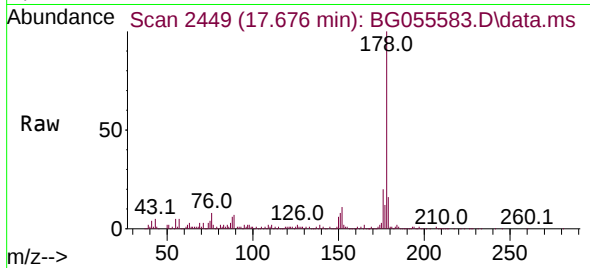
Tgt Ion:188 Resp: 348768  
 Ion Ratio Lower Upper  
 188 100  
 94 7.5 6.4 9.6  
 80 8.3 7.6 11.4





#71  
Phenanthrene  
Concen: 7.647 ng  
RT: 17.676 min Scan# 2448  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

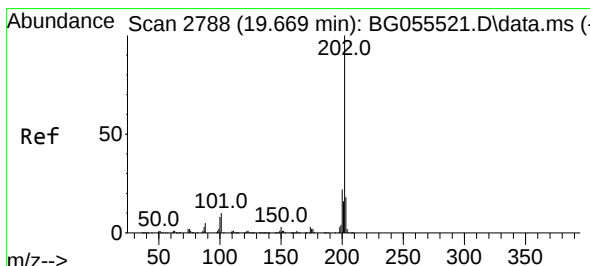
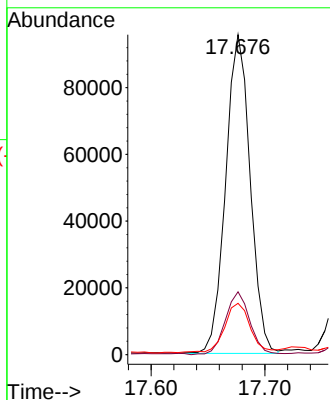
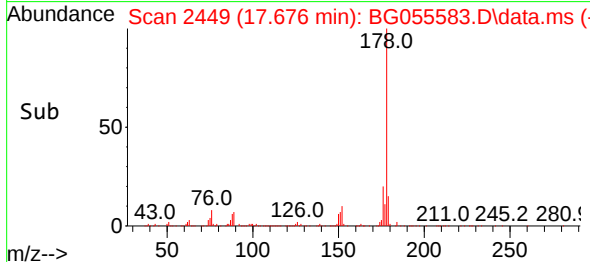
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12



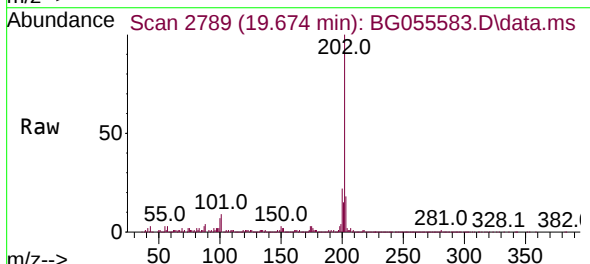
Tgt Ion:178 Resp: 143338  
Ion Ratio Lower Upper  
178 100  
176 19.6 16.1 24.1  
179 16.0 12.2 18.4

Manual Integrations  
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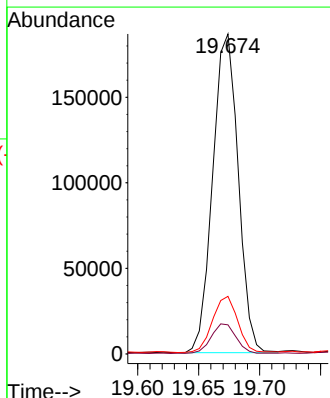
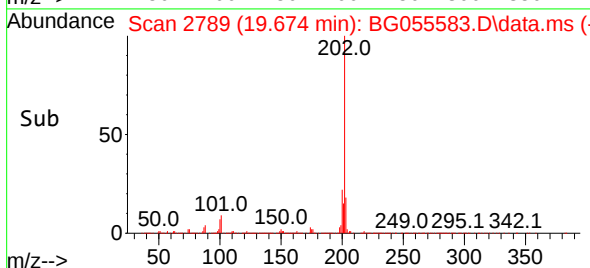
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022

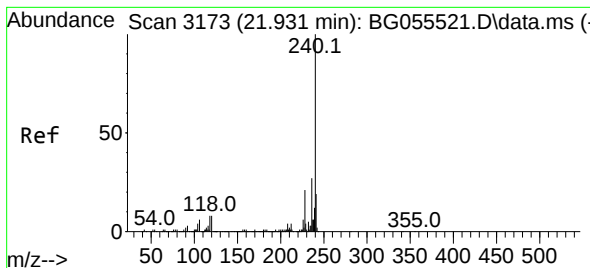


#75  
Fluoranthene  
Concen: 12.133 ng  
RT: 19.674 min Scan# 2789  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34



Tgt Ion:202 Resp: 271203  
Ion Ratio Lower Upper  
202 100  
101 9.1 0.0 29.8  
203 18.0 0.0 38.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.936 min Scan# 31

Delta R.T. 0.005 min

Lab File: BG055583.D

Acq: 12 Nov 2022 2:34

Instrument :

BNA\_G

ClientSampleId :

TP-12

Tgt Ion:240 Resp: 319360

Ion Ratio Lower Upper

240 100

120 7.9 6.1 9.1

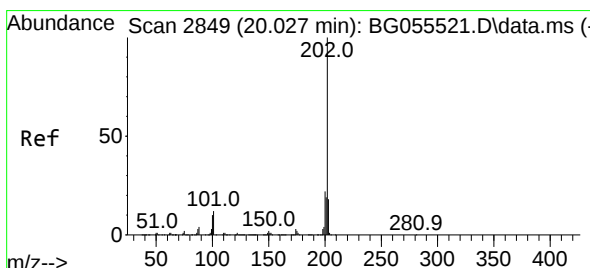
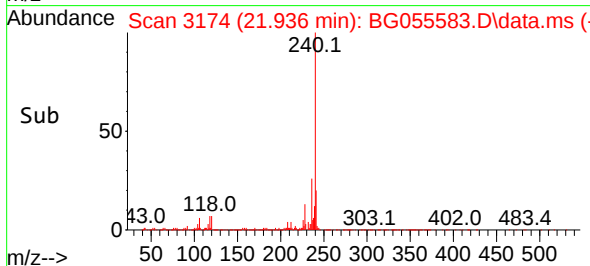
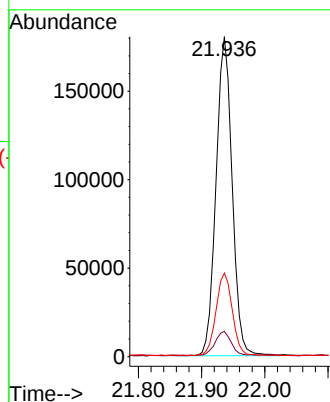
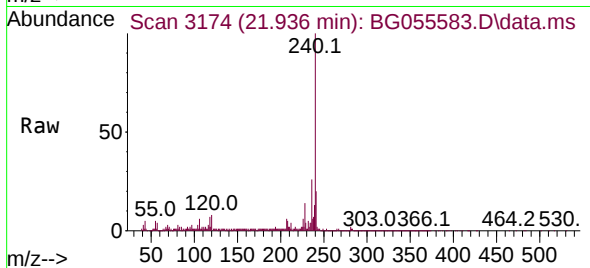
236 26.1 21.4 32.0

Manual Integrations

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Reviewed By :Christian Giraldo 11/12/2022

Supervised By :Jagrut Upadhyay 11/12/2022



#78

Pyrene

Concen: 12.982 ng

RT: 20.032 min Scan# 2850

Delta R.T. 0.005 min

Lab File: BG055583.D

Acq: 12 Nov 2022 2:34

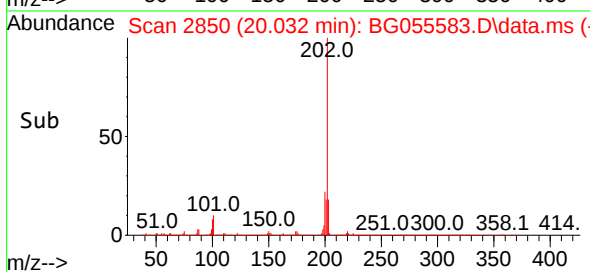
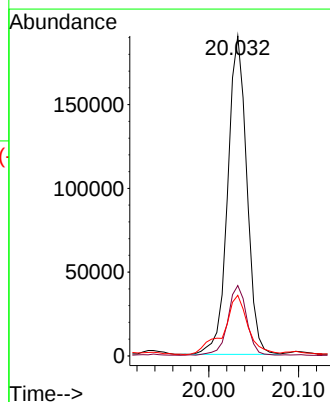
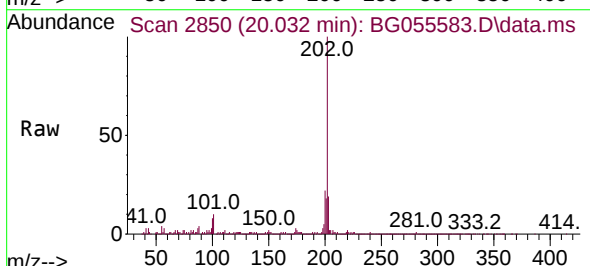
Tgt Ion:202 Resp: 280586

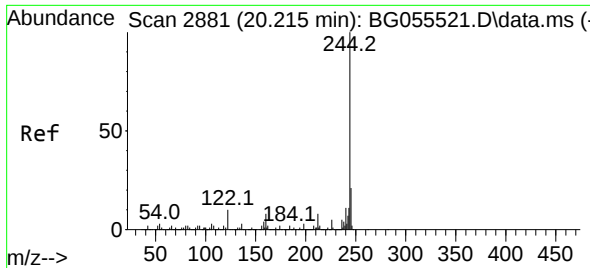
Ion Ratio Lower Upper

202 100

200 22.0 18.0 27.0

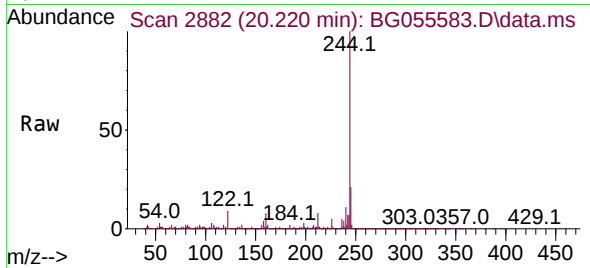
203 18.9 14.2 21.2





#79  
 Terphenyl-d14  
 Concen: 56.571 ng  
 RT: 20.220 min Scan# 2881  
 Delta R.T. 0.005 min  
 Lab File: BG055583.D  
 Acq: 12 Nov 2022 2:34

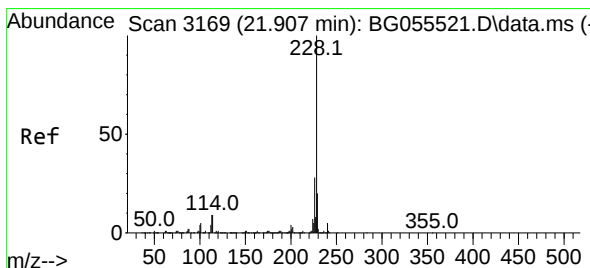
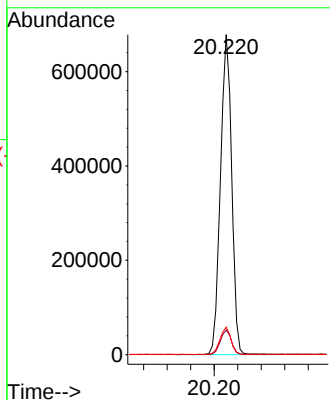
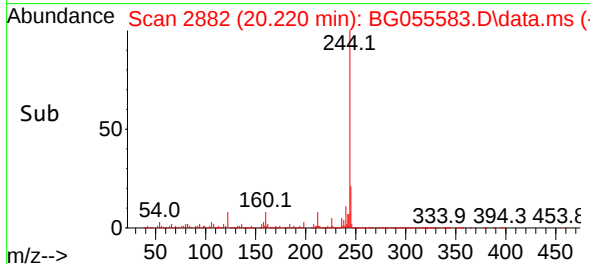
Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-12



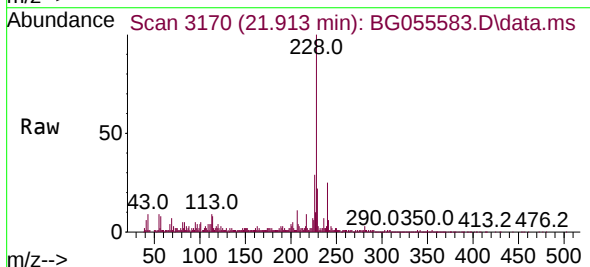
Tgt Ion:244 Resp: 899474  
 Ion Ratio Lower Upper  
 244 100  
 212 7.7 6.5 9.7  
 122 8.6 7.7 11.5

Manual Integrations  
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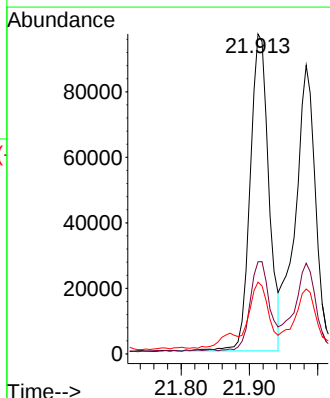
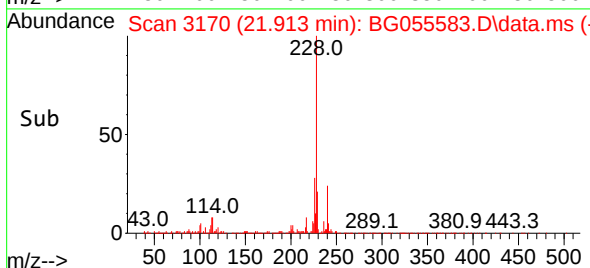
Reviewed By :Christian Giraldo 11/12/2022  
 Supervised By :Jagrut Upadhyay 11/12/2022

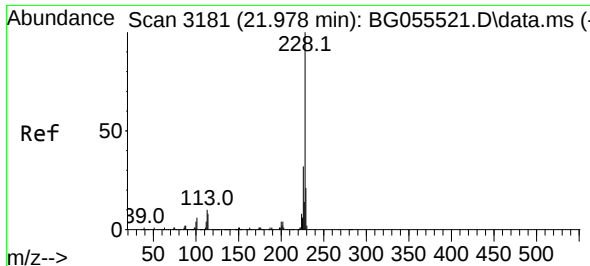


#81  
 Benzo(a)anthracene  
 Concen: 8.404 ng  
 RT: 21.913 min Scan# 3170  
 Delta R.T. 0.006 min  
 Lab File: BG055583.D  
 Acq: 12 Nov 2022 2:34



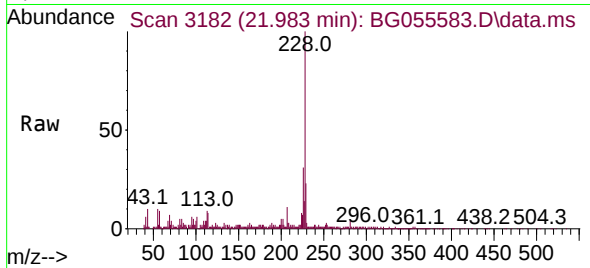
Tgt Ion:228 Resp: 183832  
 Ion Ratio Lower Upper  
 228 100  
 226 28.8 22.6 34.0  
 229 22.4 16.1 24.1





#83  
Chrysene  
Concen: 8.788 ng m  
RT: 21.983 min Scan# 3181  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

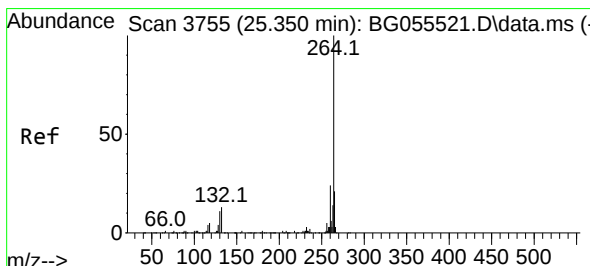
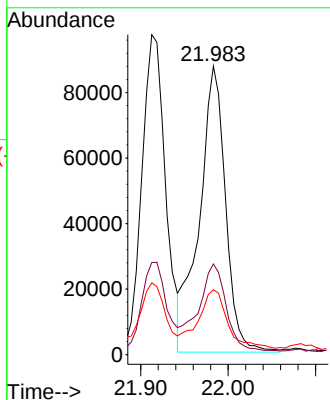
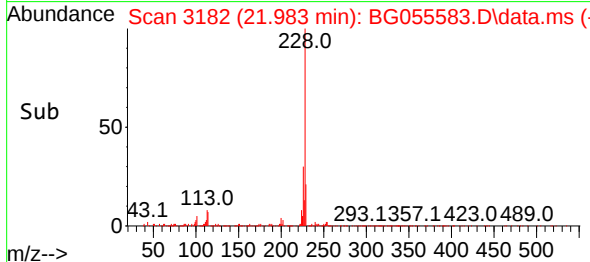
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12



Tgt Ion:228 Resp: 182803  
Ion Ratio Lower Upper  
228 100  
226 31.4 25.7 38.5  
229 22.5 16.6 25.0

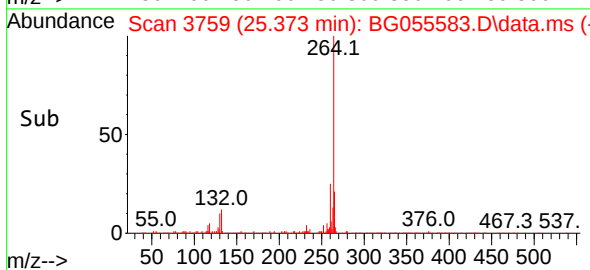
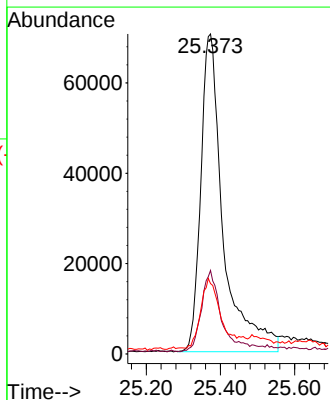
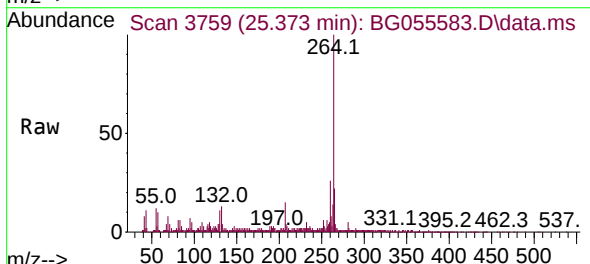
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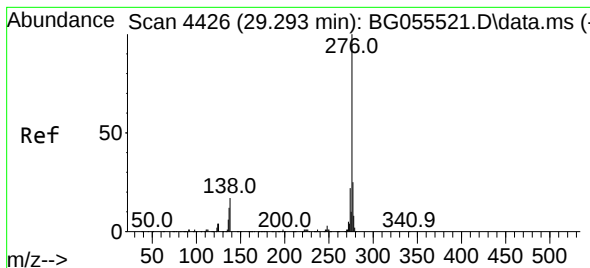
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.373 min Scan# 3759  
Delta R.T. 0.023 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

Tgt Ion:264 Resp: 296159  
Ion Ratio Lower Upper  
264 100  
260 26.1 19.4 29.2  
265 22.0 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.596 ng m

RT: 29.322 min Scan# 4426

Delta R.T. 0.029 min

Lab File: BG055583.D

Acq: 12 Nov 2022 2:34

Instrument :

BNA\_G

ClientSampleId :

TP-12

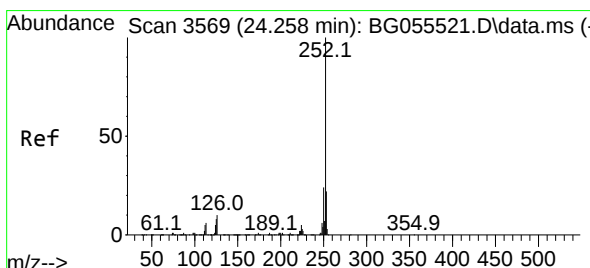
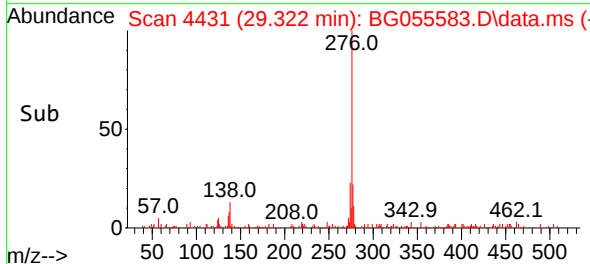
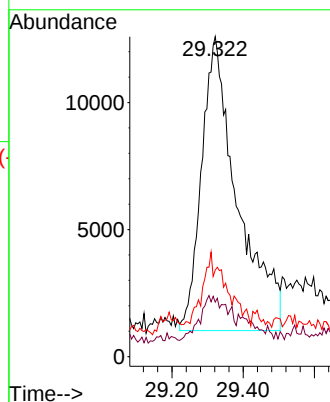
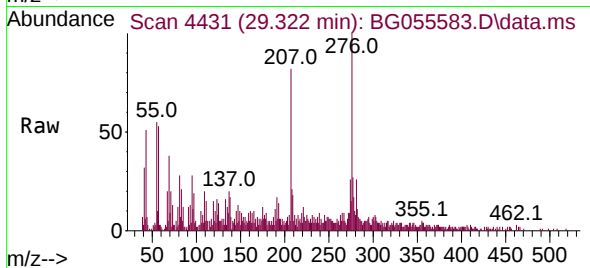
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 81106 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 5.0   | 11.5  | 17.3  |
| 277       | 7.7   | 20.4  | 30.6  |

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Supervised By :Jagrut Upadhyay 11/12/2022



#88

Benzo(b)fluoranthene

Concen: 13.386 ng

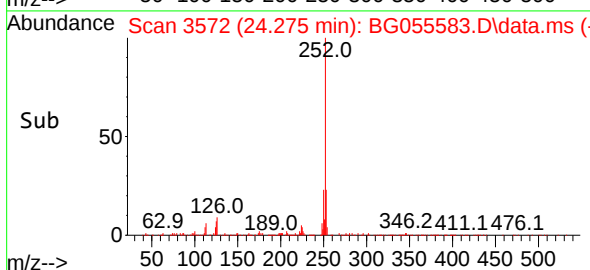
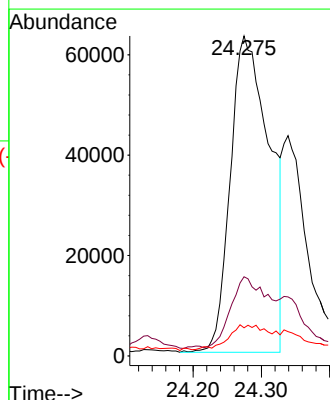
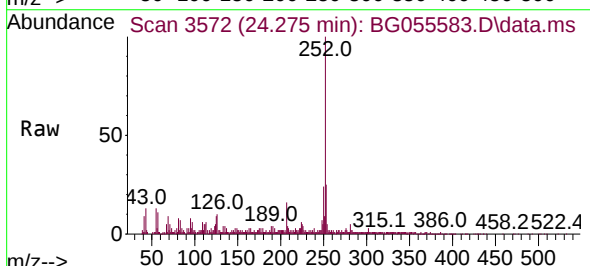
RT: 24.275 min Scan# 3572

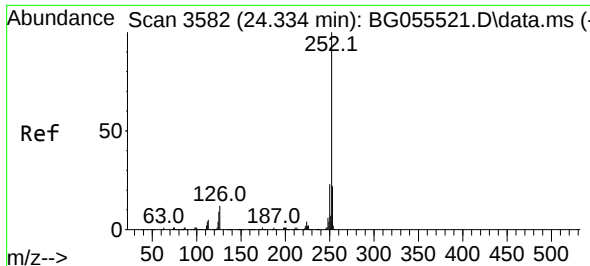
Delta R.T. 0.017 min

Lab File: BG055583.D

Acq: 12 Nov 2022 2:34

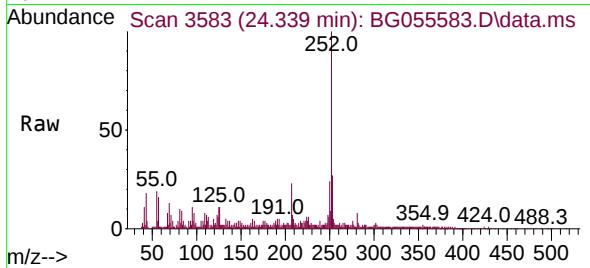
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 251179 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.7  | 17.9  | 26.9   |
| 125       | 8.8   | 6.7   | 10.1   |





#89  
Benzo(k)fluoranthene  
Concen: 5.888 ng m  
RT: 24.339 min Scan# 3582  
Delta R.T. 0.005 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

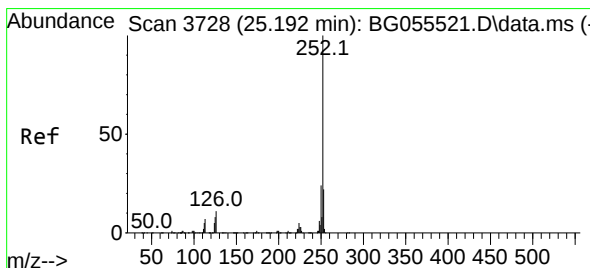
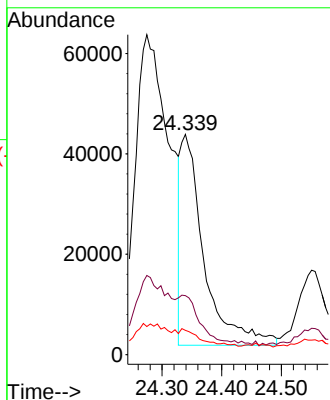
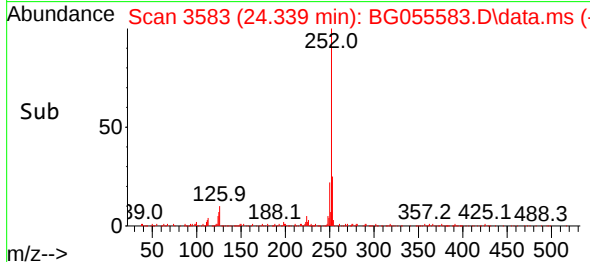
Instrument :  
BNA\_G  
ClientSampleId :  
TP-12



Tgt Ion:252 Resp: 112962  
Ion Ratio Lower Upper  
252 100  
253 26.8 17.8 26.8  
125 11.0 6.9 10.3

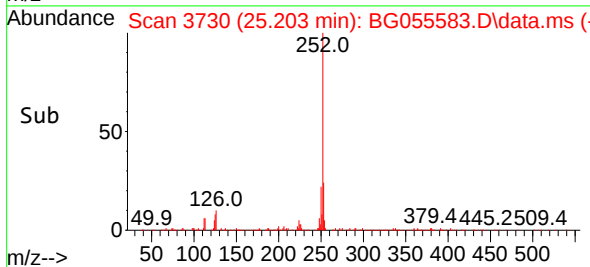
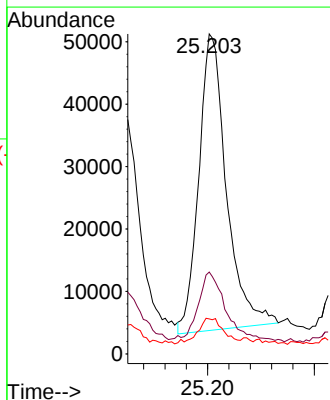
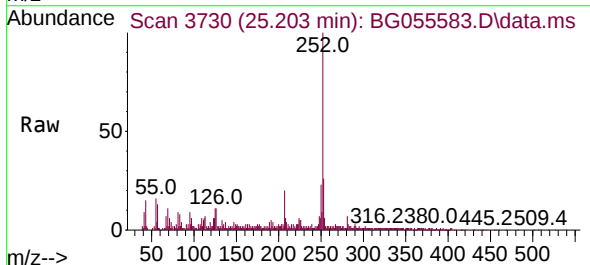
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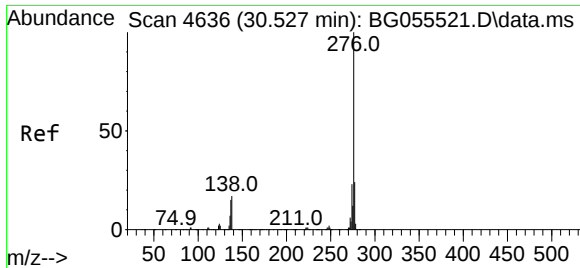
Reviewed By :Christian Giraldo 11/12/2022  
Supervised By :Jagrut Upadhyay 11/12/2022



#90  
Benzo(a)pyrene  
Concen: 10.566 ng  
RT: 25.203 min Scan# 3730  
Delta R.T. 0.011 min  
Lab File: BG055583.D  
Acq: 12 Nov 2022 2:34

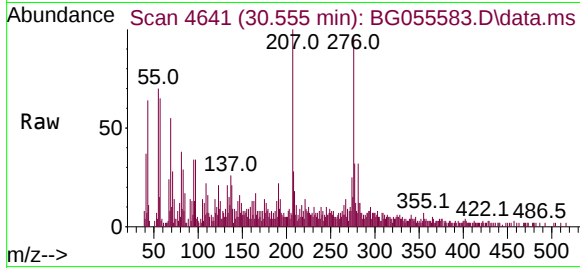
Tgt Ion:252 Resp: 170790  
Ion Ratio Lower Upper  
252 100  
253 25.6 17.8 26.6  
125 10.9 6.7 10.1





#92  
 Benzo(g,h,i)perylene  
 Concen: 3.856 ng m  
 RT: 30.555 min Scan# 4636  
 Delta R.T. 0.028 min  
 Lab File: BG055583.D  
 Acq: 12 Nov 2022 2:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-12



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 70378 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 277       | 33.5  | 19.3  | 28.9  |
| 138       | 21.4  | 13.9  | 20.9  |

Manual Integrations  
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Reviewed By :Christian Giraldo 11/12/2022  
 Supervised By :Jagrut Upadhyay 11/12/2022

