

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG111821\  
 Data File : BG051117.D  
 Acq On : 18 Nov 2021 22:59  
 Operator : CG/JU  
 Sample : M4693-01DL 5X  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 UT-COMP-01DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 11/19/2021  
 Supervised By :mohammad ahmed 11/29/2021

Quant Time: Nov 19 01:38:19 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111321.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Nov 19 01:16:08 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.218  | 152  | 33292    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 11.044 | 136  | 147438   | 20.000 | ng    | #-0.01   |
| 39) Acenaphthene-d10          | 14.845 | 164  | 101097   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 17.595 | 188  | 208730   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.896 | 240  | 177533   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12              | 25.309 | 264  | 183151   | 20.000 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.762  | 112  | 45860    | 20.606 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.372  | 99   | 62379    | 19.858 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.393  | 82   | 41705    | 12.521 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 16.338 | 330  | 21095    | 20.851 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.465 | 172  | 90312    | 14.115 | ng    | -0.01    |
| 79) Terphenyl-d14             | 20.180 | 244  | 131086   | 14.061 | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene              | 14.910 | 154  | 16980    | 3.113  | ng    | 87       |
| 58) Fluorene                  | 15.891 | 166  | 21347    | 2.948  | ng    | 99       |
| 71) Phenanthrene              | 17.636 | 178  | 257561   | 23.133 | ng    | 97       |
| 72) Anthracene                | 17.730 | 178  | 68513    | 6.187  | ng    | 96       |
| 73) Carbazole                 | 17.994 | 167  | 27077    | 2.469  | ng    | # 94     |
| 75) Fluoranthene              | 19.640 | 202  | 413786   | 30.293 | ng    | 96       |
| 78) Pyrene                    | 20.004 | 202  | 355696   | 26.707 | ng    | 99       |
| 81) Benzo(a)anthracene        | 21.872 | 228  | 165978   | 13.616 | ng    | 99       |
| 83) Chrysene                  | 21.943 | 228  | 151195m  | 13.148 | ng    |          |
| 84) Bis(2-ethylhexyl)phtha... | 21.737 | 149  | 177368   | 22.003 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene    | 29.223 | 276  | 87542    | 6.734  | ng    | # 98     |
| 88) Benzo(b)fluoranthene      | 24.217 | 252  | 188479   | 16.349 | ng    | # 91     |
| 89) Benzo(k)fluoranthene      | 24.281 | 252  | 60581m   | 5.269  | ng    |          |
| 90) Benzo(a)pyrene            | 25.145 | 252  | 139184   | 14.141 | ng    | # 92     |
| 91) Dibenzo(a,h)anthracene    | 29.270 | 278  | 22496    | 2.102  | ng    | # 80     |
| 92) Benzo(g,h,i)perylene      | 30.462 | 276  | 89146    | 8.463  | ng    | # 92     |
| -----                         |        |      |          |        |       |          |

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

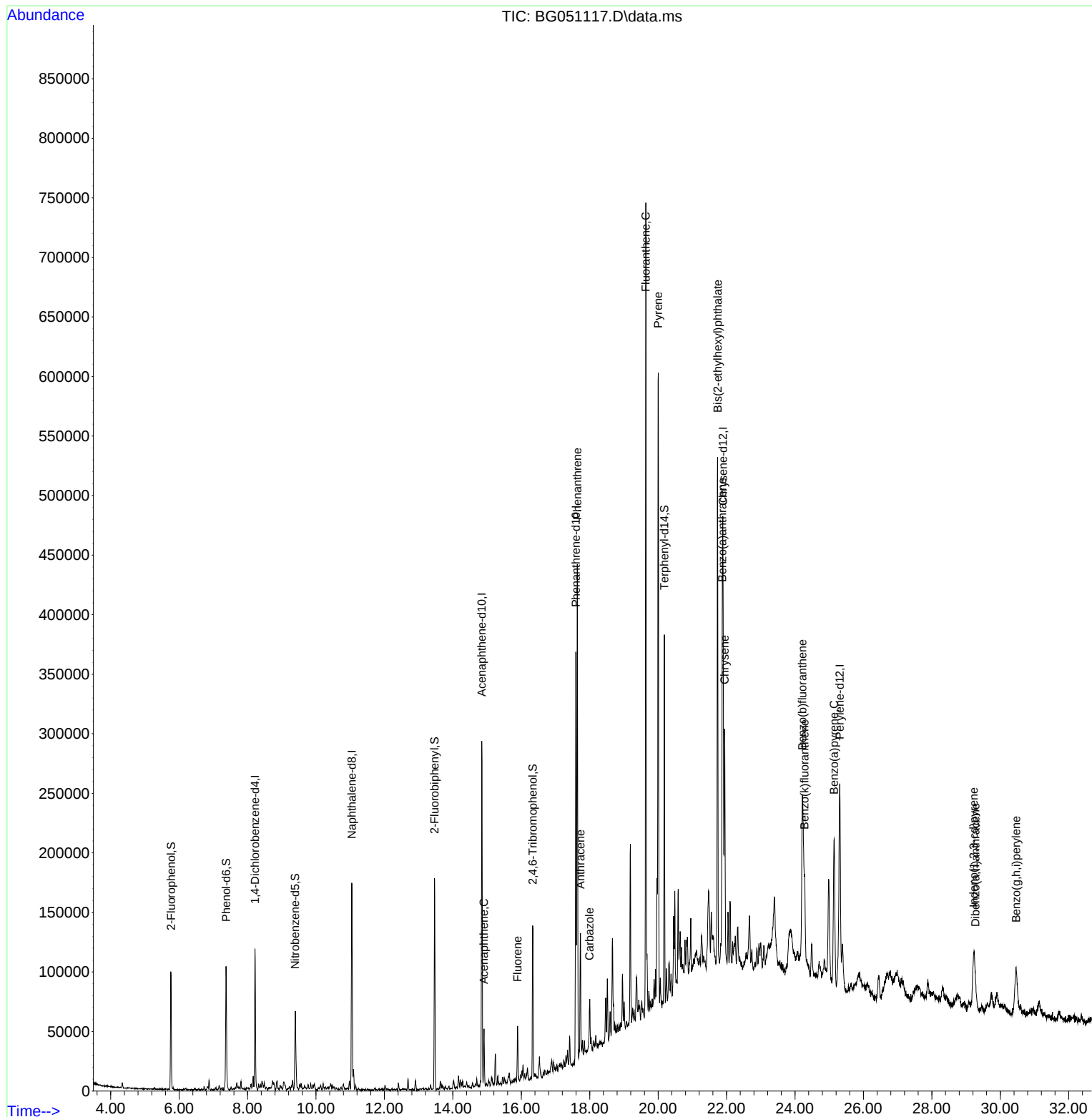
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG111821\  
Data File : BG051117.D  
Acq On : 18 Nov 2021 22:59  
Operator : CG/JU  
Sample : M4693-01DL 5X  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

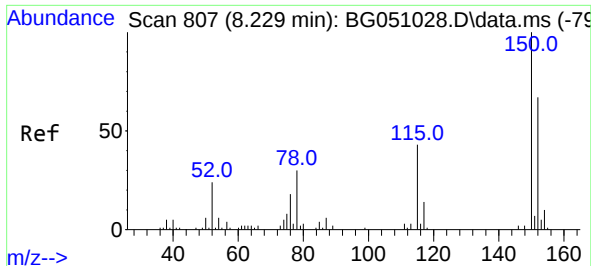
Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL

Quant Time: Nov 19 01:38:19 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG111321.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Nov 19 01:16:08 2021  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.218 min Scan# 807  
Delta R.T. -0.011 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :

BNA\_G

ClientSampleId :

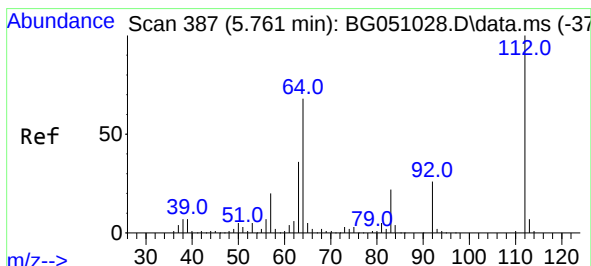
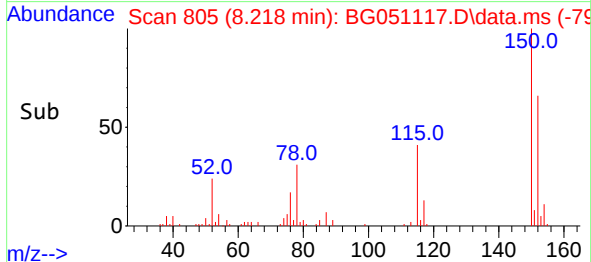
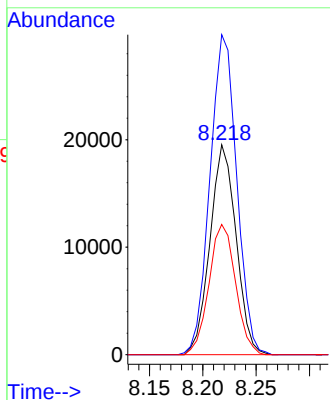
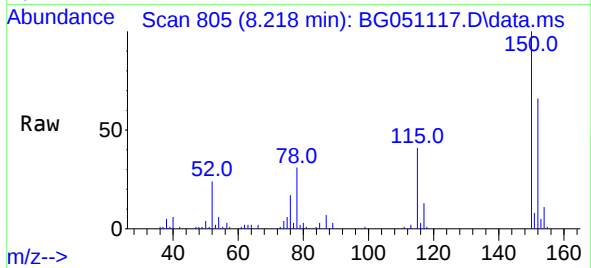
UT-COMP-01DL

Tgt Ion:152 Resp: 33292  
Ion Ratio Lower Upper  
152 100  
150 152.5 119.4 179.0  
115 62.1 60.2 90.4

Manual Integrations

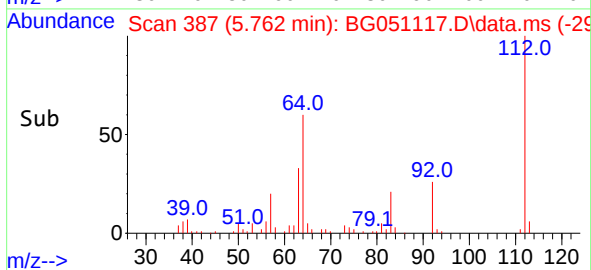
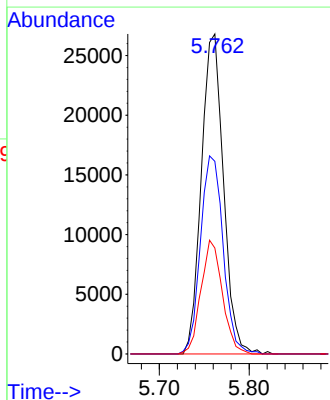
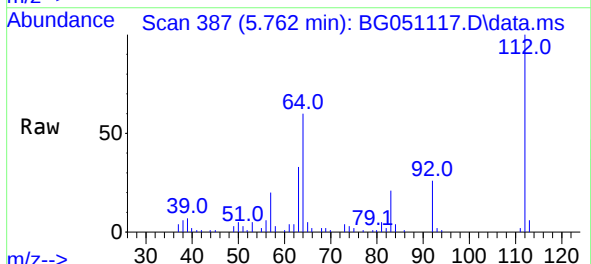
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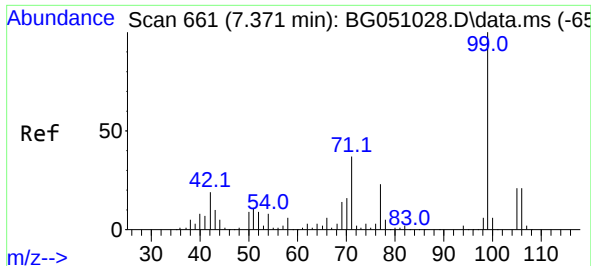
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#5  
2-Fluorophenol  
Concen: 20.606 ng  
RT: 5.762 min Scan# 387  
Delta R.T. 0.001 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Tgt Ion:112 Resp: 45860  
Ion Ratio Lower Upper  
112 100  
64 60.2 46.7 70.1  
63 33.1 35.3 52.9#





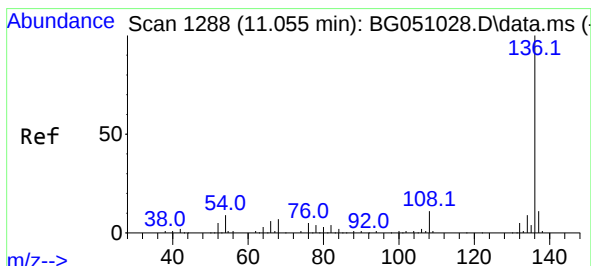
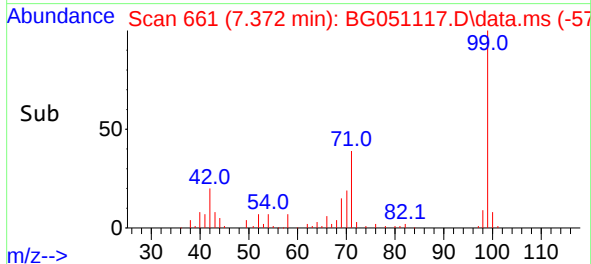
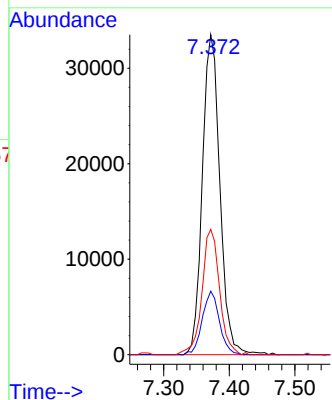
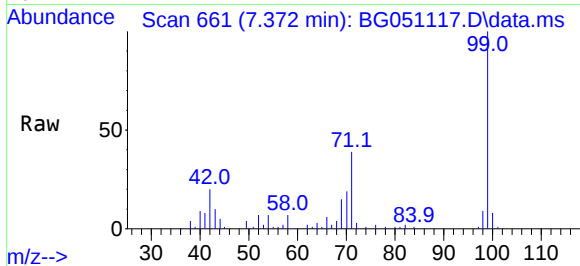
#7  
Phenol-d6  
Concen: 19.858 ng  
RT: 7.372 min Scan# 60  
Delta R.T. 0.001 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :  
BNA\_G  
ClientSampleId :  
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Tgt Ion: 99 Resp: 62379  
Ion Ratio Lower Upper  
99 100  
42 19.8 20.5 30.7  
71 39.1 41.5 62.3

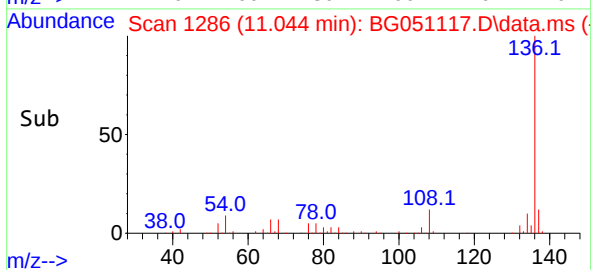
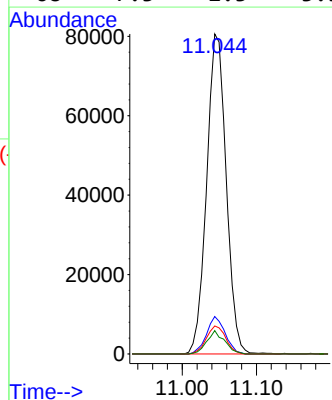
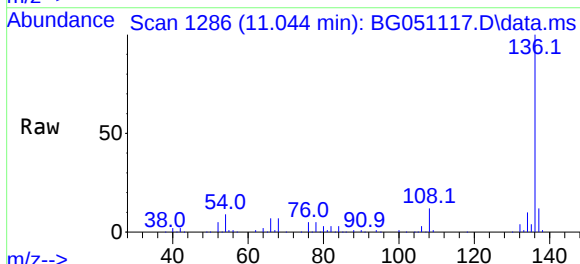
Manual Integrations  
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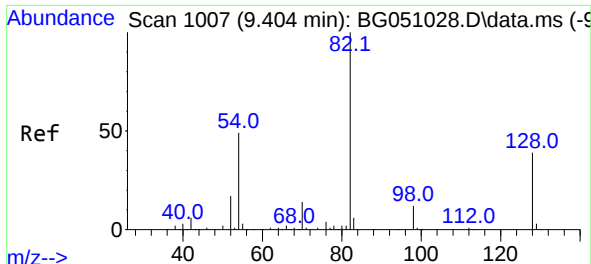
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 11.044 min Scan# 1286  
Delta R.T. -0.011 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Tgt Ion:136 Resp: 147438  
Ion Ratio Lower Upper  
136 100  
137 11.7 8.2 12.2  
54 8.8 5.5 8.3#  
68 7.3 2.3 3.5#





#23  
Nitrobenzene-d5  
Concen: 12.521 ng  
RT: 9.393 min Scan# 1005  
Delta R.T. -0.011 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :

BNA\_G

ClientSampleId :

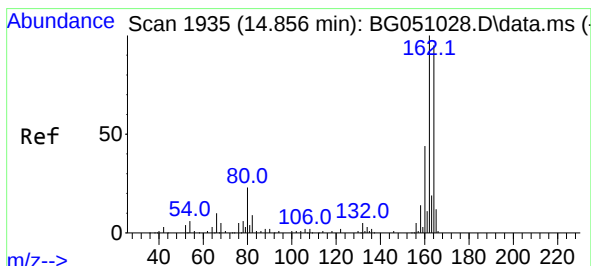
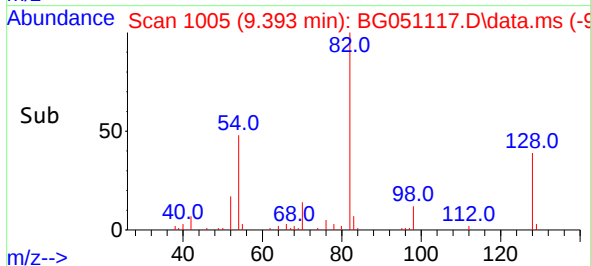
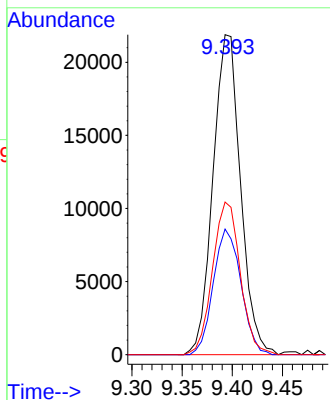
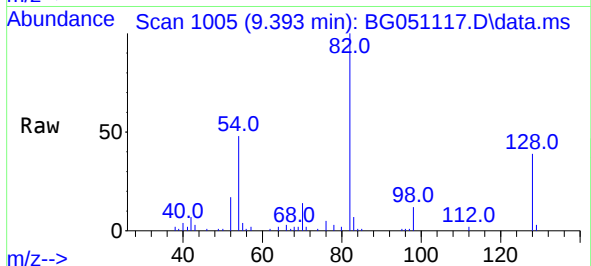
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Tgt Ion: 82 Resp: 4170  
Ion Ratio Lower Upper  
82 100  
128 39.2 29.8 44.6  
54 47.7 45.8 68.8

Manual Integrations

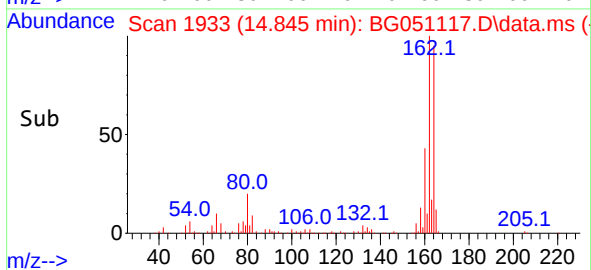
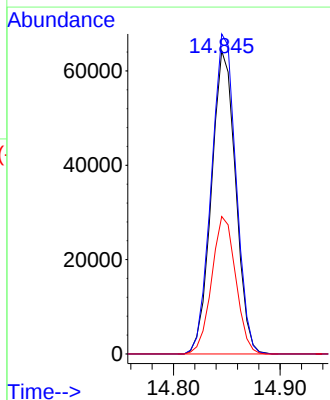
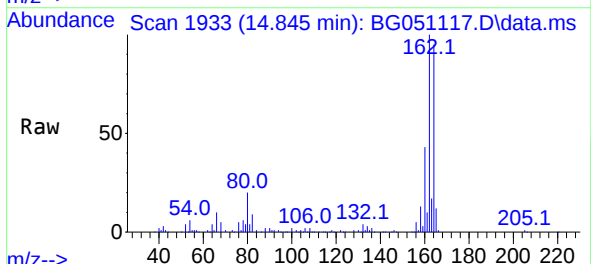
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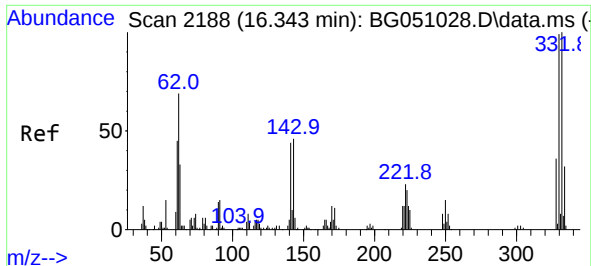
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.845 min Scan# 1933  
Delta R.T. -0.011 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Tgt Ion:164 Resp: 101097  
Ion Ratio Lower Upper  
164 100  
162 105.5 81.4 122.0  
160 45.3 34.9 52.3





#42  
2,4,6-Tribromophenol  
Concen: 20.851 ng  
RT: 16.338 min Scan# 2188  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :

BNA\_G

ClientSampleId :

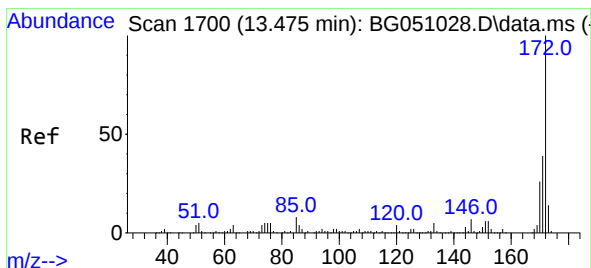
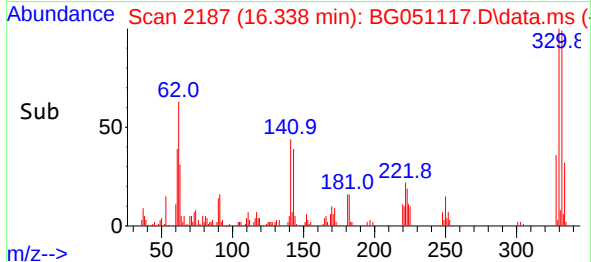
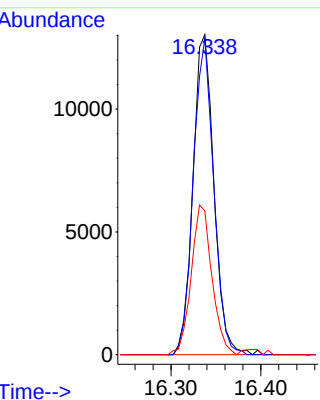
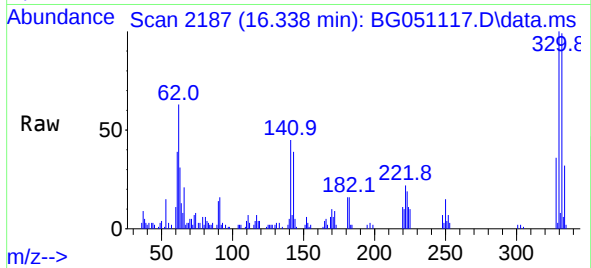
UT-COMP-01DL

Tgt Ion:330 Resp: 2109  
Ion Ratio Lower Upper  
330 100  
332 96.1 77.3 115.9  
141 46.3 35.6 53.4

Manual Integrations

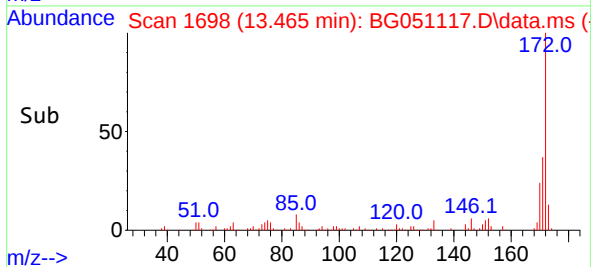
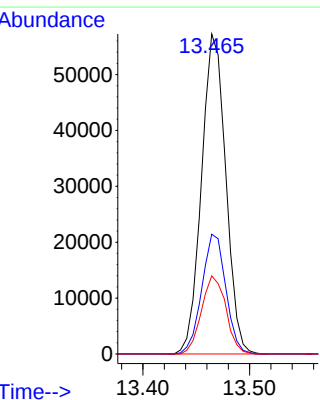
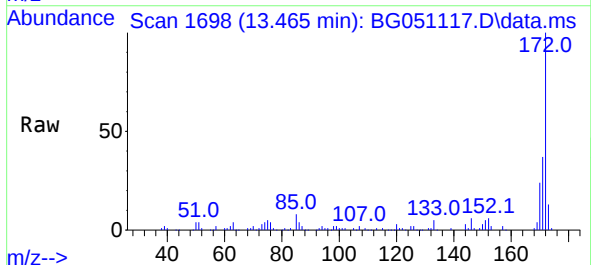
APPROVED

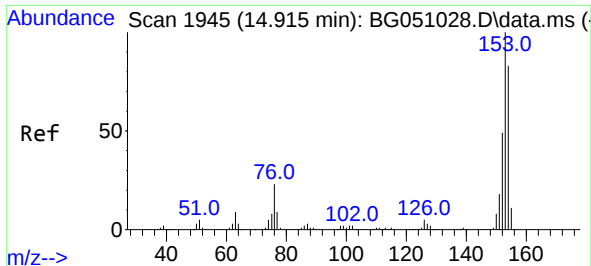
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#45  
2-Fluorobiphenyl  
Concen: 14.115 ng  
RT: 13.465 min Scan# 1698  
Delta R.T. -0.010 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

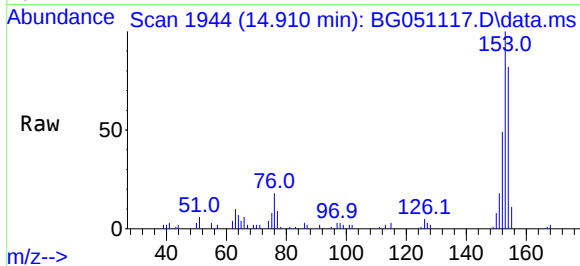
Tgt Ion:172 Resp: 90312  
Ion Ratio Lower Upper  
172 100  
171 37.4 28.6 43.0  
170 24.4 18.6 27.8





#52  
Acenaphthene  
Concen: 3.113 ng  
RT: 14.910 min Scan# 1944  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

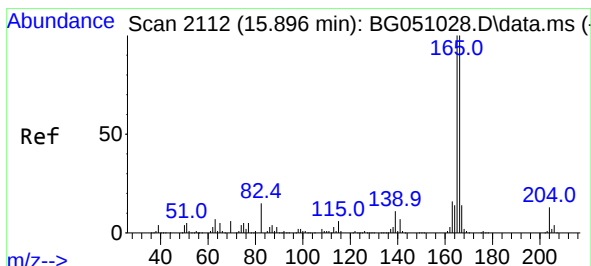
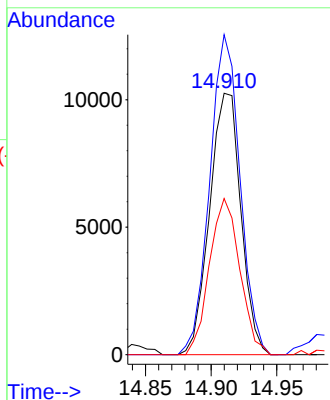
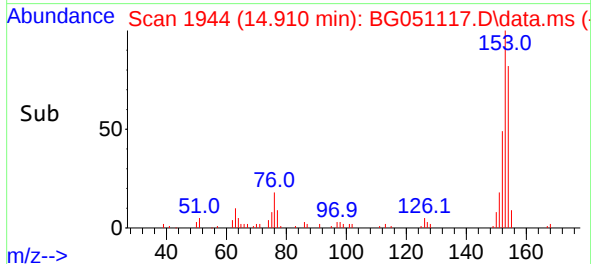
Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL



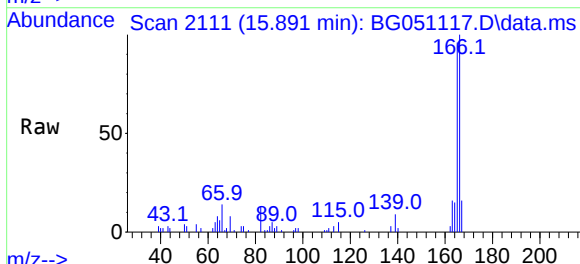
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Ion Ratio Lower Upper  
154 100  
153 122.4 87.0 130.4  
152 59.7 40.1 60.1

Manual Integrations  
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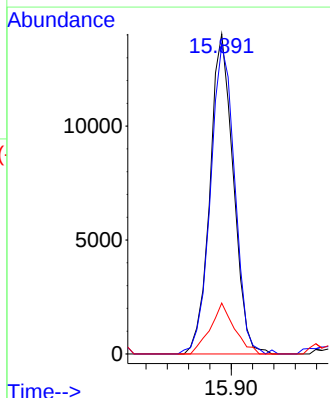
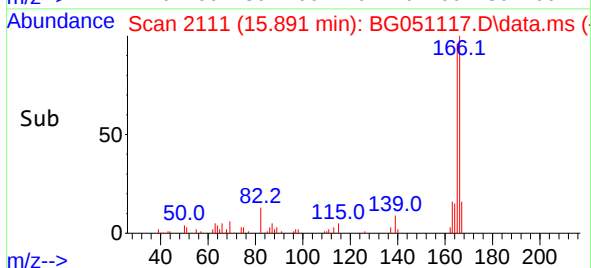
Reviewed By :Jagrut Upadhyay 11/19/2021  
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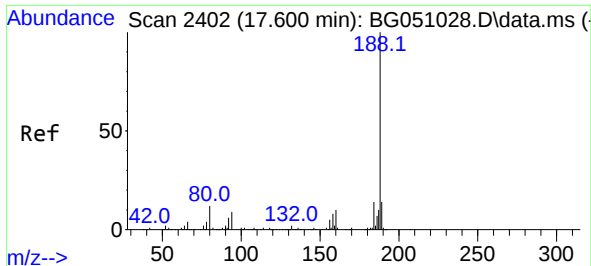


#58  
Fluorene  
Concen: 2.948 ng  
RT: 15.891 min Scan# 2111  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59



Tgt Ion:166 Resp: 21347  
Ion Ratio Lower Upper  
166 100  
165 96.5 77.7 116.5  
167 15.9 10.8 16.2





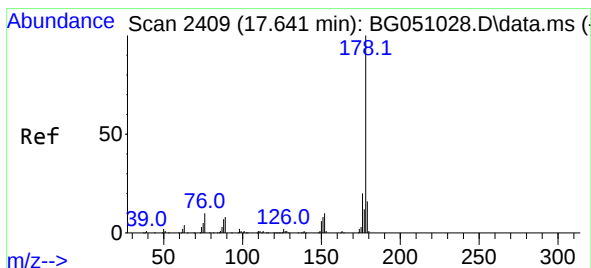
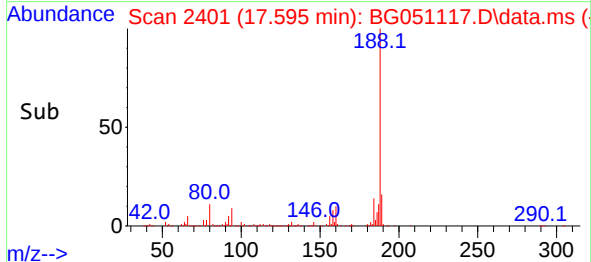
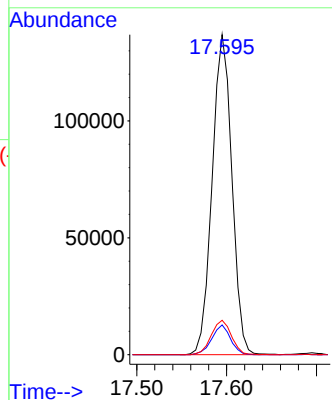
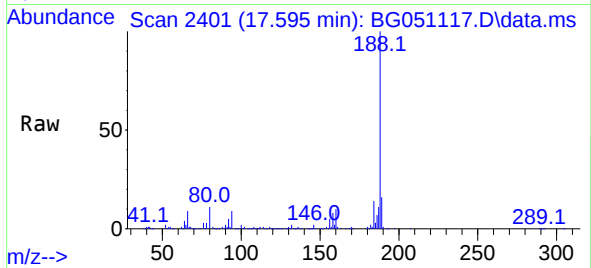
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.595 min Scan# 2401  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL

Tgt Ion:188 Resp: 208730  
Ion Ratio Lower Upper  
188 100  
94 9.3 5.4 8.0  
80 10.8 3.7 5.5

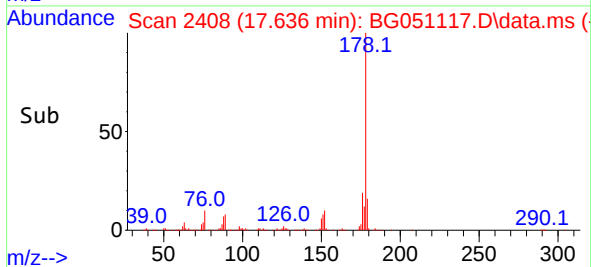
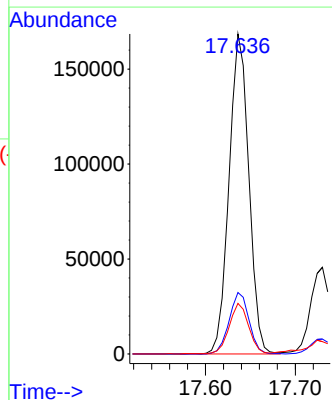
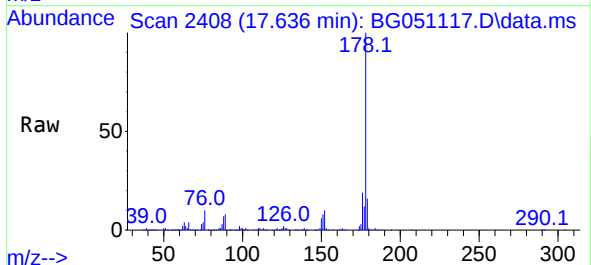
Manual Integrations  
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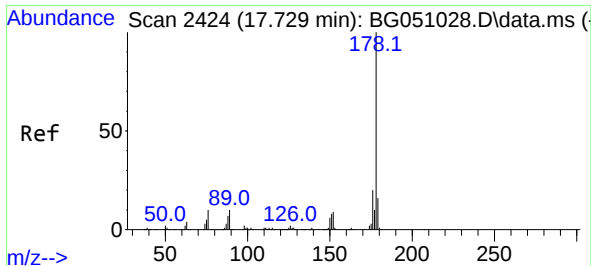
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#71  
Phenanthrene  
Concen: 23.133 ng  
RT: 17.636 min Scan# 2408  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Tgt Ion:178 Resp: 257561  
Ion Ratio Lower Upper  
178 100  
176 19.2 16.0 24.0  
179 15.8 14.2 21.4





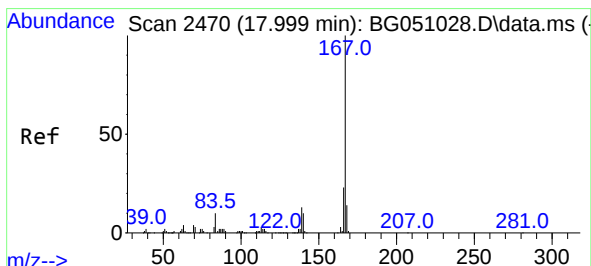
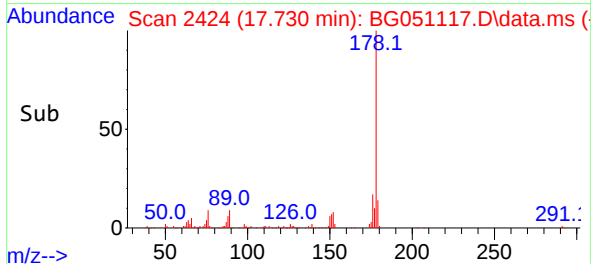
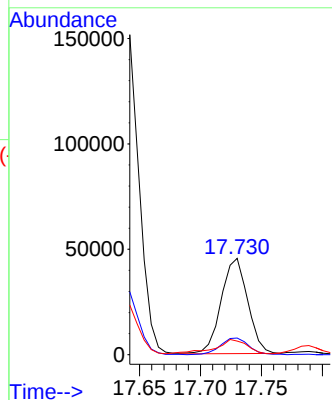
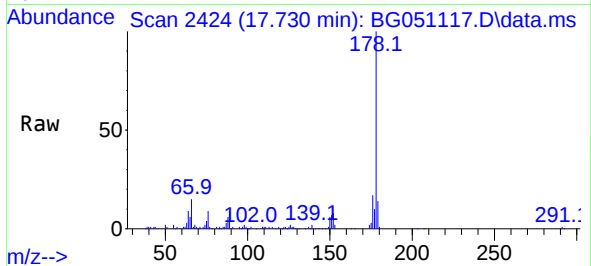
#72  
 Anthracene  
 Concen: 6.187 ng  
 RT: 17.730 min Scan# 2424  
 Delta R.T. 0.001 min  
 Lab File: BG051117.D  
 Acq: 18 Nov 2021 22:59

Instrument :  
 BNA\_G  
 ClientSampleId :  
 UT-COMP-01DL

Tgt Ion:178 Resp: 6851  
 Ion Ratio Lower Upper  
 178 100  
 176 17.2 14.6 21.8  
 179 14.2 13.4 20.0

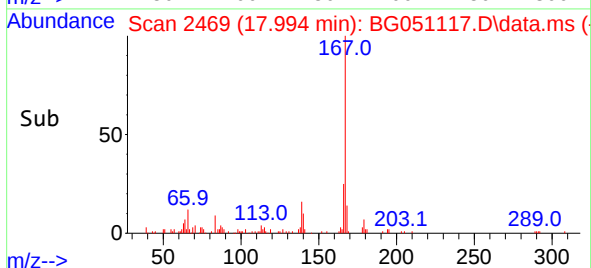
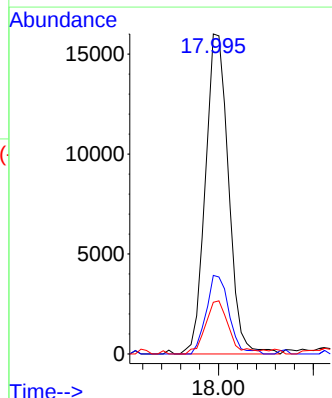
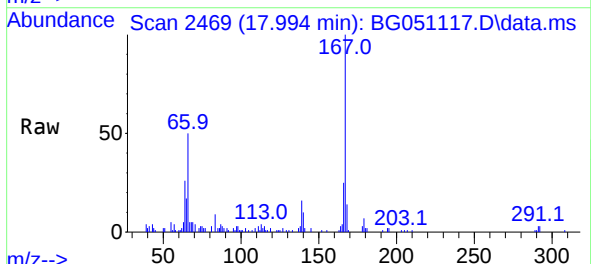
Manual Integrations  
 APPROVED

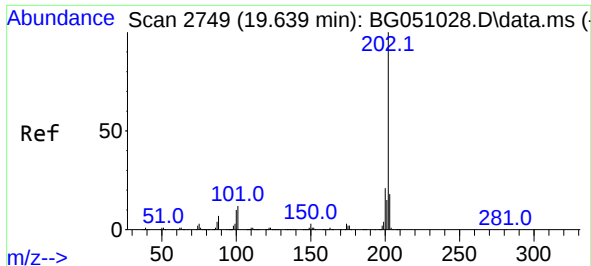
Reviewed By :Jagrut Upadhyay 11/19/2021  
 Supervised By :mohammad ahmed 11/29/2021



#73  
 Carbazole  
 Concen: 2.469 ng  
 RT: 17.994 min Scan# 2469  
 Delta R.T. -0.005 min  
 Lab File: BG051117.D  
 Acq: 18 Nov 2021 22:59

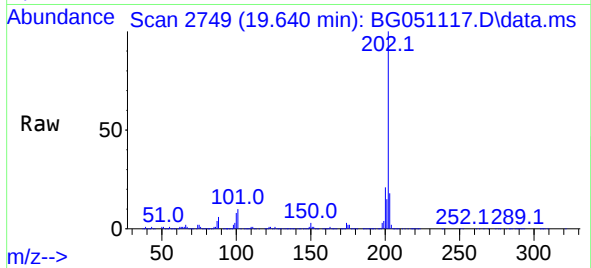
Tgt Ion:167 Resp: 27077  
 Ion Ratio Lower Upper  
 167 100  
 166 24.6 17.4 26.2  
 139 16.2 10.7 16.1#





#75  
Fluoranthene  
Concen: 30.293 ng  
RT: 19.640 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

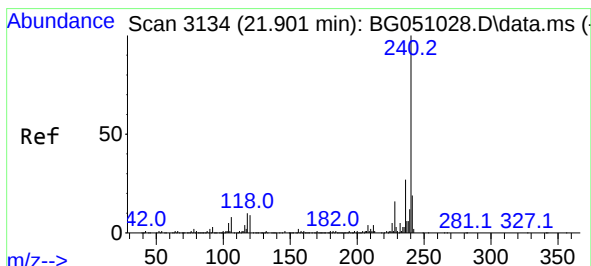
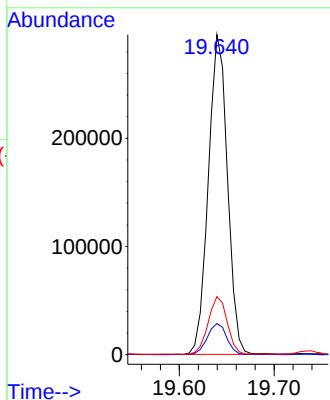
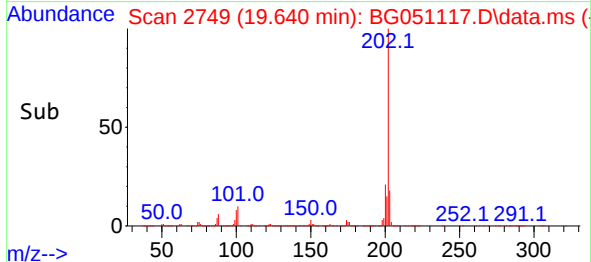
Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL



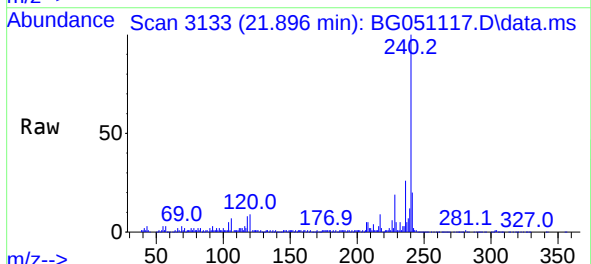
Tgt Ion:202 Resp: 413780  
Ion Ratio Lower Upper  
202 100  
101 9.7 0.0 24.7  
203 18.2 0.0 38.5

Manual Integrations  
APPROVED

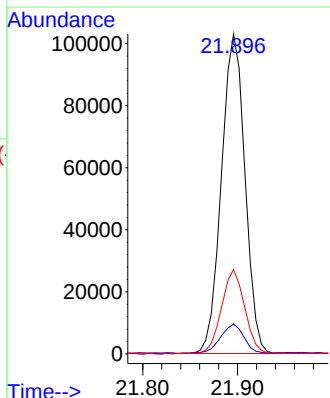
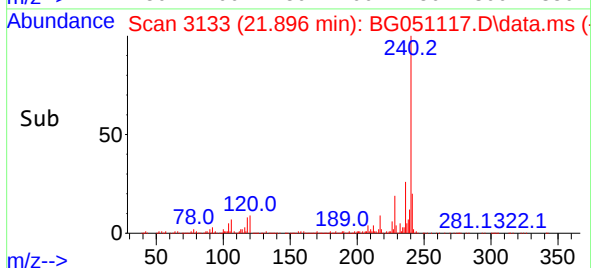
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021

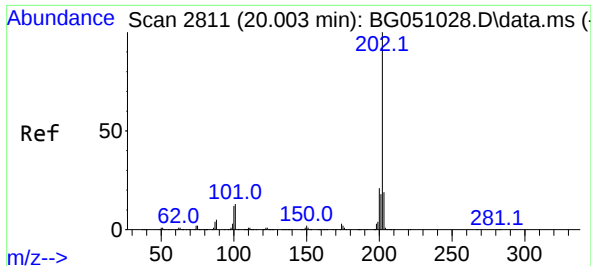


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.896 min Scan# 3133  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59



Tgt Ion:240 Resp: 177533  
Ion Ratio Lower Upper  
240 100  
120 9.3 4.2 6.2#  
236 26.4 21.8 32.6





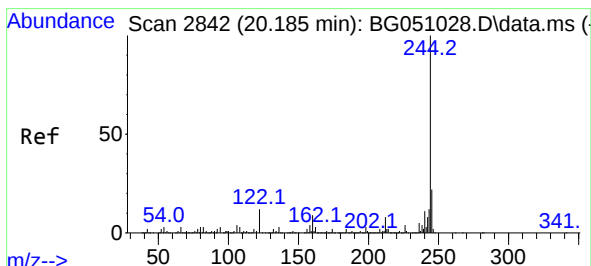
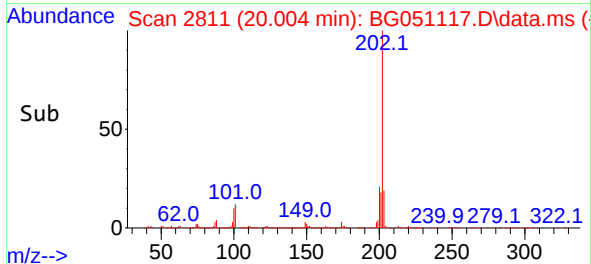
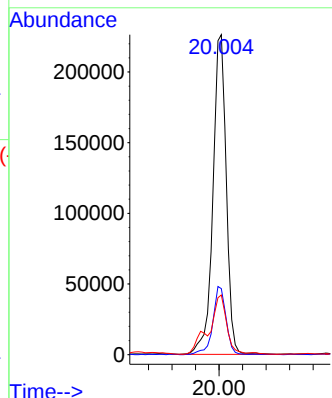
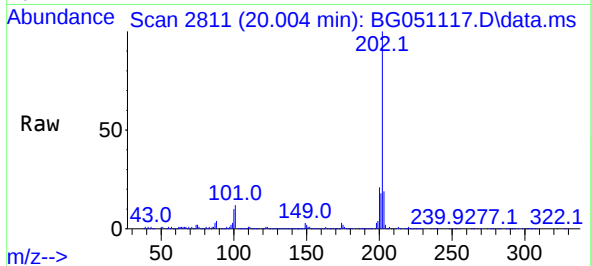
#78  
Pyrene  
Concen: 26.707 ng  
RT: 20.004 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL

Tgt Ion:202 Resp: 355690  
Ion Ratio Lower Upper  
202 100  
200 20.7 15.8 23.8  
203 18.6 14.6 21.8

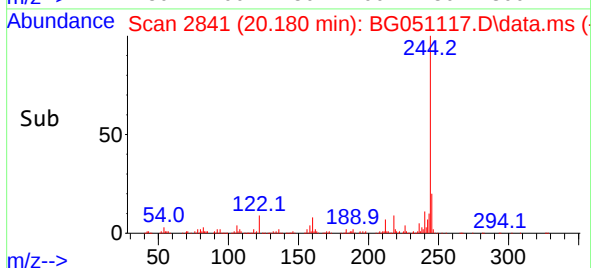
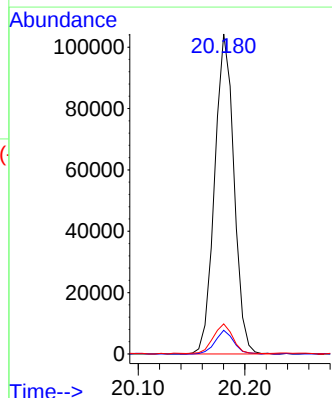
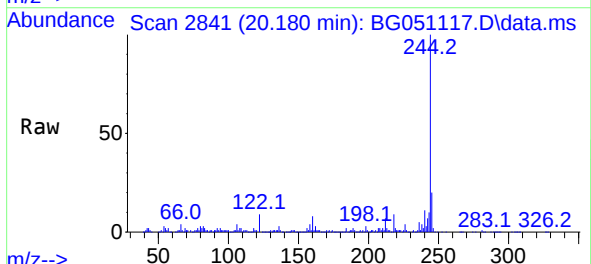
Manual Integrations  
APPROVED

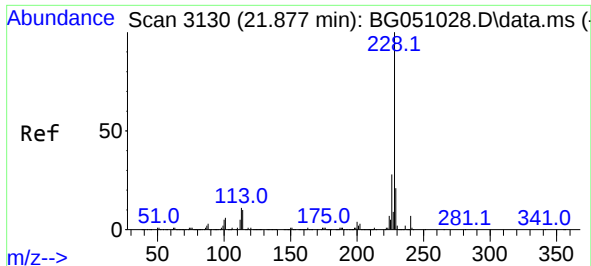
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#79  
Terphenyl-d14  
Concen: 14.061 ng  
RT: 20.180 min Scan# 2841  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

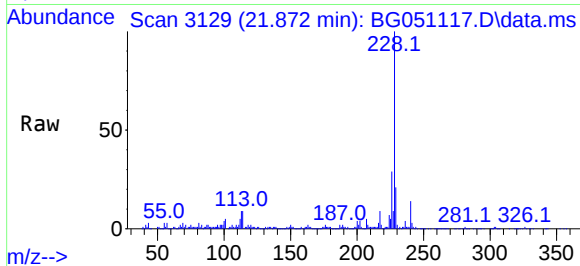
Tgt Ion:244 Resp: 131086  
Ion Ratio Lower Upper  
244 100  
212 7.4 6.9 10.3  
122 9.4 5.0 7.6#





#81  
Benzo(a)anthracene  
Concen: 13.616 ng  
RT: 21.872 min Scan# 311  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

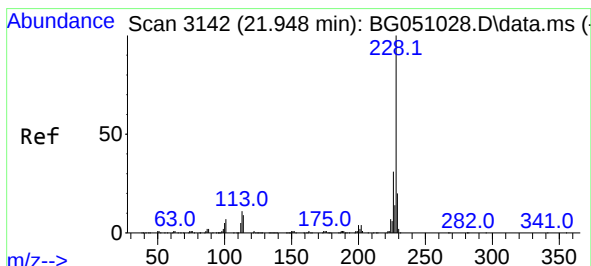
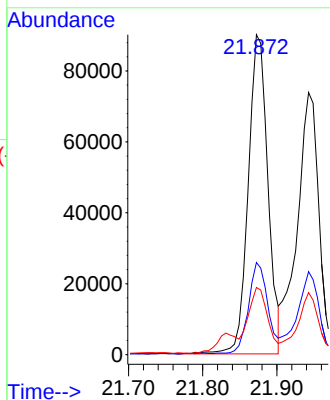
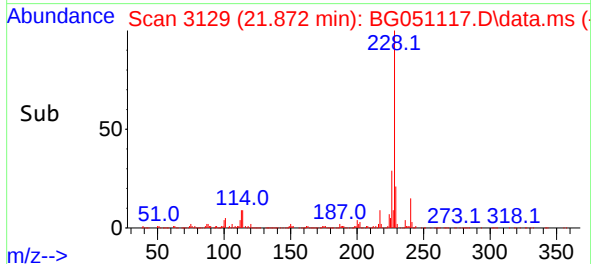
Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL



Tgt Ion:228 Resp: 165978  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.7 34.1  
229 21.0 16.0 24.0

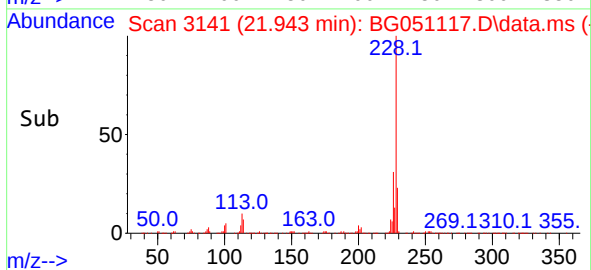
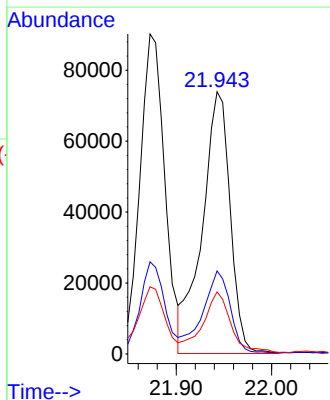
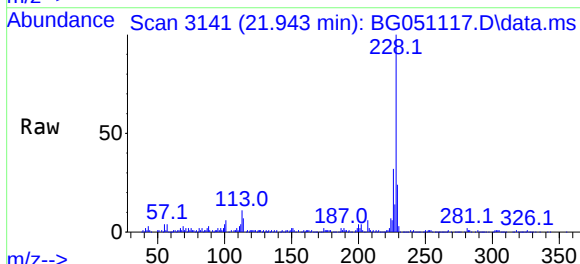
Manual Integrations  
APPROVED

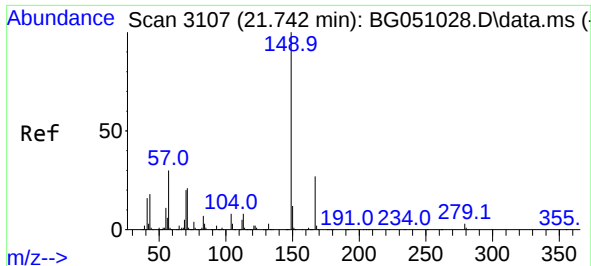
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#83  
Chrysene  
Concen: 13.148 ng m  
RT: 21.943 min Scan# 3141  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

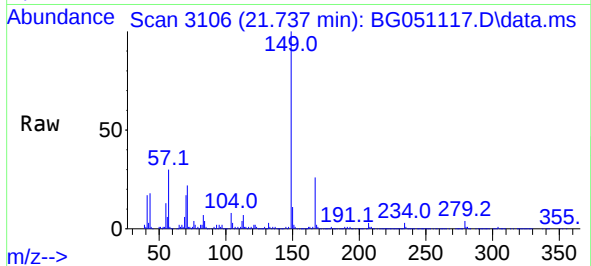
Tgt Ion:228 Resp: 151195  
Ion Ratio Lower Upper  
228 100  
226 31.7 23.1 34.7  
229 23.7 15.3 22.9#





#84  
Bis(2-ethylhexyl)phthalate  
Concen: 22.003 ng  
RT: 21.737 min Scan# 3106  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

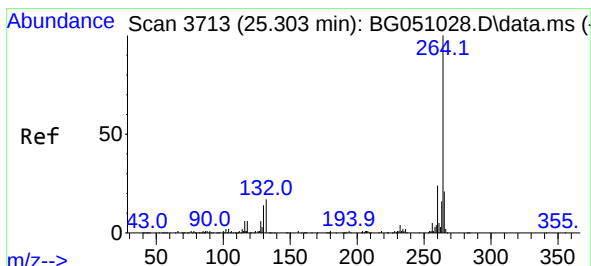
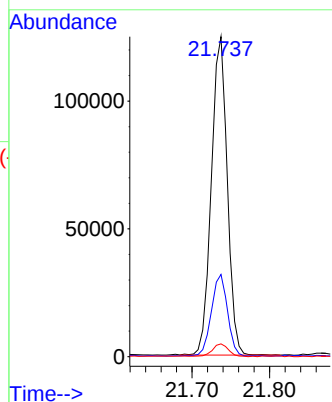
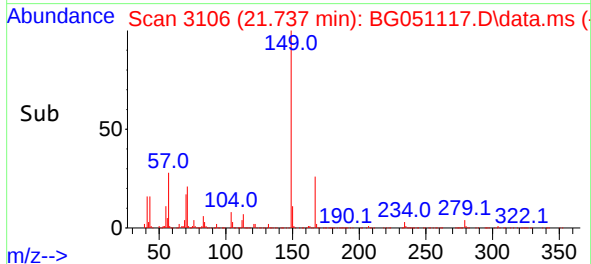
Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL



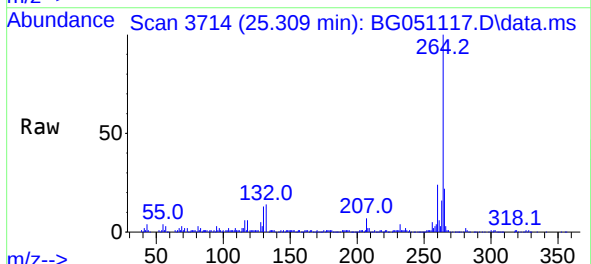
Tgt Ion:149 Resp: 177368  
Ion Ratio Lower Upper  
149 100  
167 25.7 22.3 33.5  
279 4.0 3.8 5.8

Manual Integrations  
APPROVED

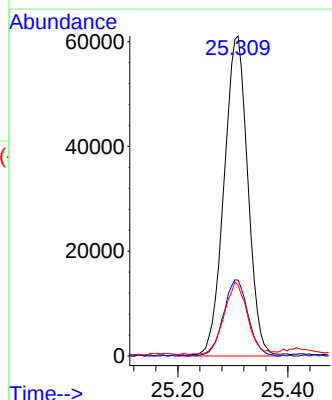
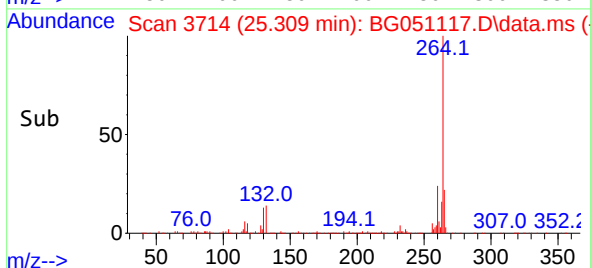
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021

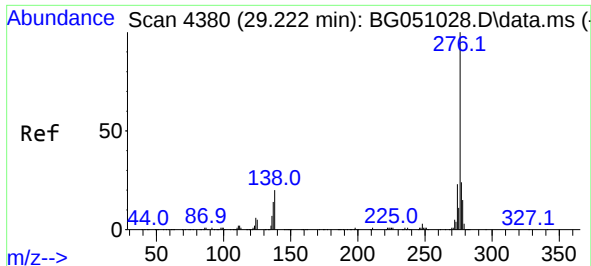


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.309 min Scan# 3714  
Delta R.T. 0.007 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59



Tgt Ion:264 Resp: 183151  
Ion Ratio Lower Upper  
264 100  
260 23.7 19.4 29.2  
265 22.1 16.9 25.3





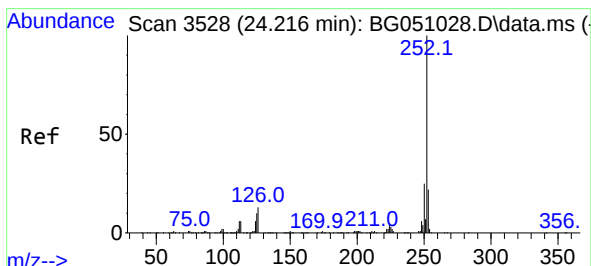
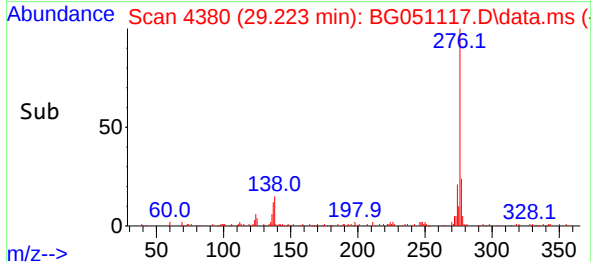
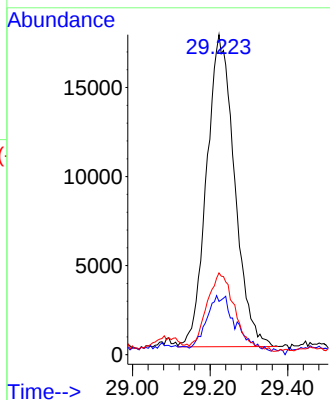
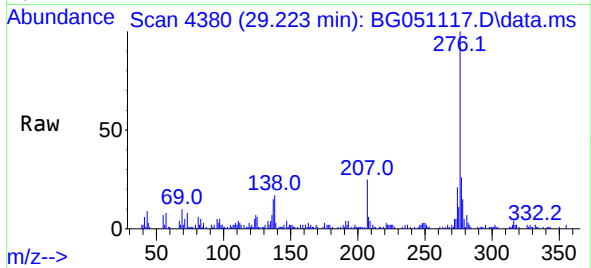
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 6.734 ng  
RT: 29.223 min Scan# 4380  
Delta R.T. 0.001 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL

Tgt Ion:276 Resp: 87542  
Ion Ratio Lower Upper  
276 100  
138 7.7 5.1 7.7  
277 25.6 19.8 29.6

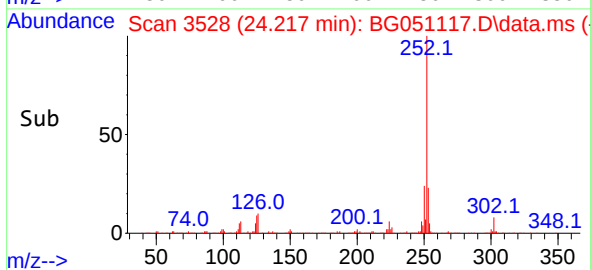
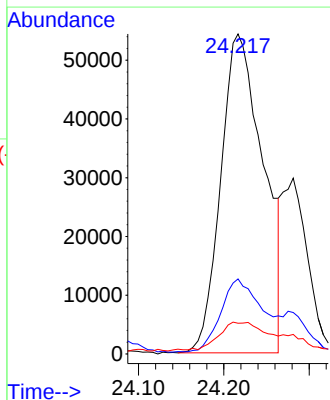
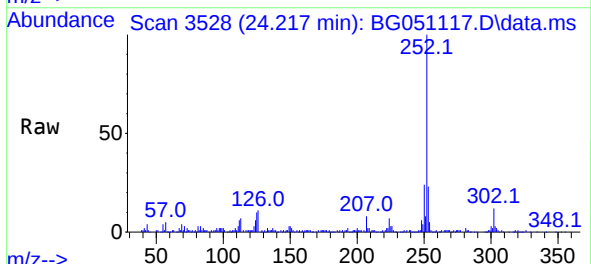
Manual Integrations  
APPROVED

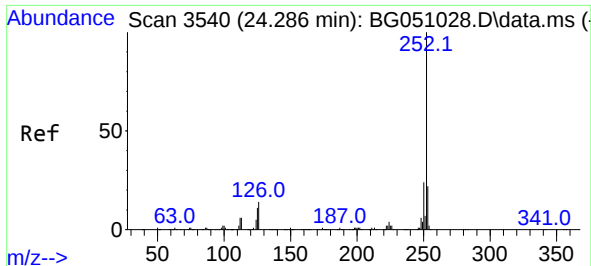
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#88  
Benzo(b)fluoranthene  
Concen: 16.349 ng  
RT: 24.217 min Scan# 3528  
Delta R.T. 0.001 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Tgt Ion:252 Resp: 188479  
Ion Ratio Lower Upper  
252 100  
253 23.5 16.2 24.4  
125 9.6 3.0 4.4





#89  
Benzo(k)fluoranthene  
Concen: 5.269 ng m  
RT: 24.281 min Scan# 3539  
Delta R.T. -0.005 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Instrument :

BNA\_G

ClientSampleId :

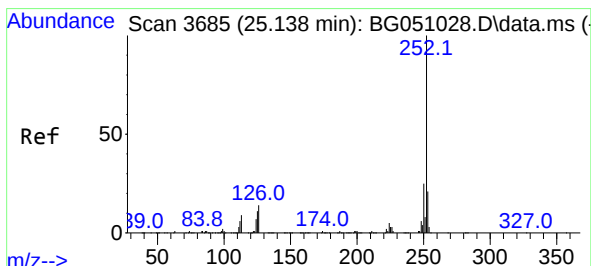
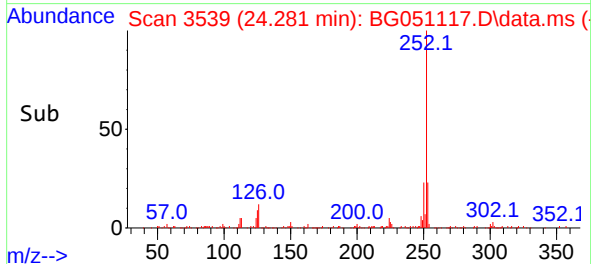
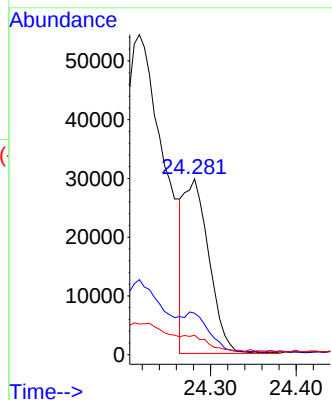
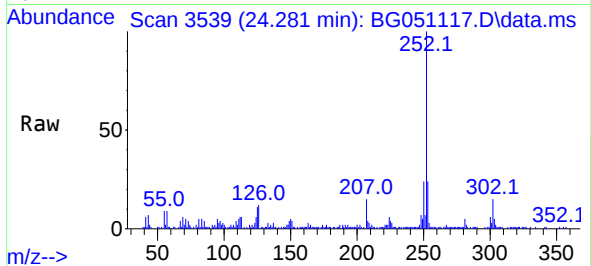
UT-COMP-01DL

Tgt Ion:252 Resp: 6058  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.0 27.0  
125 11.1 3.1 4.7

Manual Integrations

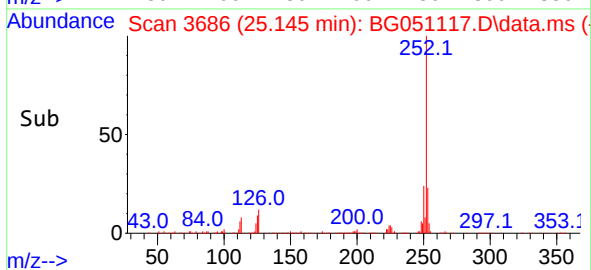
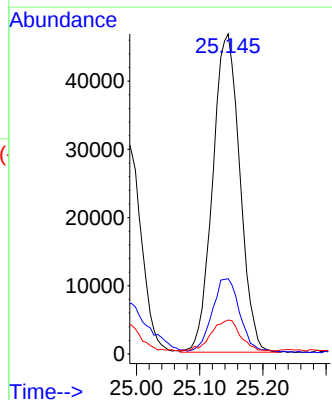
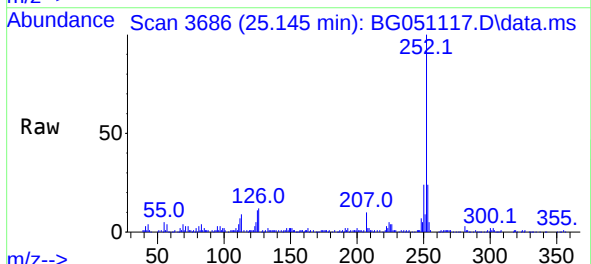
APPROVED

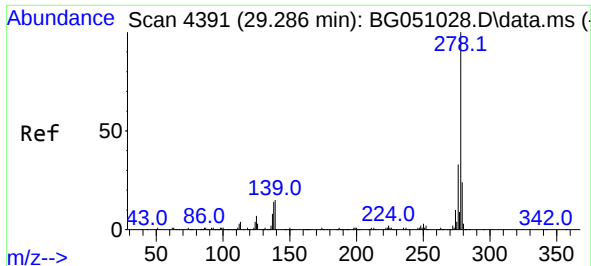
Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#90  
Benzo(a)pyrene  
Concen: 14.141 ng  
RT: 25.145 min Scan# 3686  
Delta R.T. 0.007 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

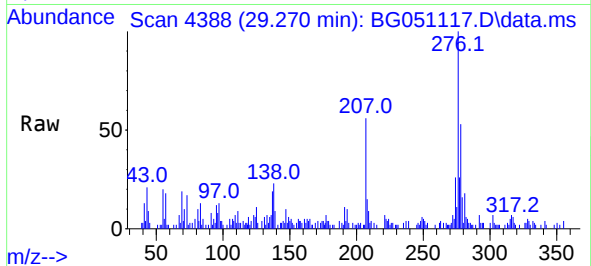
Tgt Ion:252 Resp: 139184  
Ion Ratio Lower Upper  
252 100  
253 23.5 16.6 25.0  
125 10.6 3.5 5.3





#91  
Dibenzo(a,h)anthracene  
Concen: 2.102 ng  
RT: 29.270 min Scan# 4388  
Delta R.T. -0.017 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

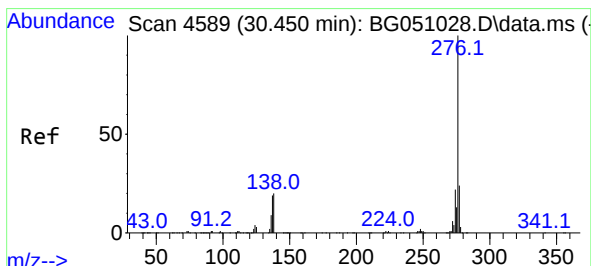
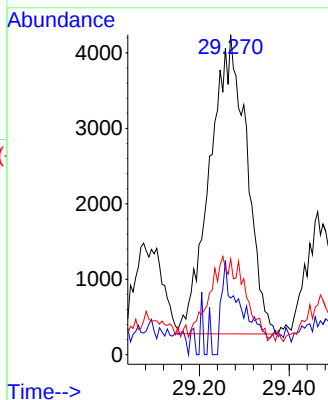
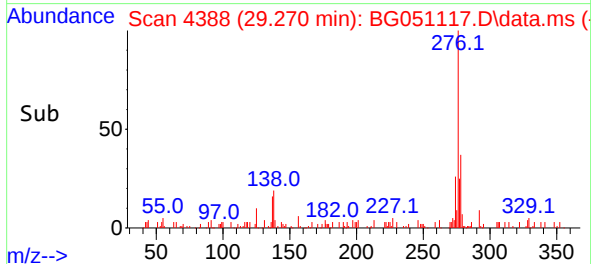
Instrument :  
BNA\_G  
ClientSampleId :  
UT-COMP-01DL



Tgt Ion:278 Resp: 22490  
Ion Ratio Lower Upper  
278 100  
139 17.7 4.6 6.8  
279 29.9 17.9 26.9

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 11/19/2021  
Supervised By :mohammad ahmed 11/29/2021



#92  
Benzo(g,h,i)perylene  
Concen: 8.463 ng  
RT: 30.462 min Scan# 4591  
Delta R.T. 0.013 min  
Lab File: BG051117.D  
Acq: 18 Nov 2021 22:59

Tgt Ion:276 Resp: 89146  
Ion Ratio Lower Upper  
276 100  
277 23.6 18.4 27.6  
138 17.5 7.0 10.6

