

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG083122\  
 Data File : BG054815.D  
 Acq On : 31 Aug 2022 20:55  
 Operator : CG/JU  
 Sample : N4426-01 10X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETGI-344

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 09/01/2022  
 Supervised By : Jagrut Upadhyay 09/01/2022

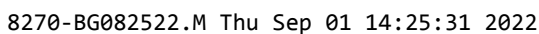
Quant Time: Sep 01 05:07:00 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 25 17:50:55 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.153  | 152  | 62803    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.979 | 136  | 247787   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.786 | 164  | 147644   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.542 | 188  | 266281   | 20.000 | ng    | # 0.01   |
| 76) Chrysene-d12              | 21.831 | 240  | 286921   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12              | 25.209 | 264  | 307119   | 20.000 | ng    | 0.01     |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.691  | 112  | 15872    | 4.401  | ng    | 0.00     |
| 7) Phenol-d6                  | 7.295  | 99   | 21044    | 4.267  | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.328  | 82   | 14222    | 3.013  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.279 | 330  | 7618     | 4.129  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.406 | 172  | 34902    | 3.553  | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.133 | 244  | 49184    | 3.396  | ng    | 0.00     |
| Target Compounds              |        |      |          |        |       |          |
|                               |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene              | 17.583 | 178  | 241881   | 17.052 | ng    | # 93     |
| 72) Anthracene                | 17.677 | 178  | 31192    | 2.262  | ng    | # 52     |
| 73) Carbazole                 | 17.941 | 167  | 29267    | 2.303  | ng    | # 38     |
| 75) Fluoranthene              | 19.592 | 202  | 563720   | 32.668 | ng    | 97       |
| 78) Pyrene                    | 19.951 | 202  | 473610   | 23.672 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.813 | 228  | 220297   | 11.324 | ng    | 99       |
| 83) Chrysene                  | 21.878 | 228  | 254418   | 13.678 | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 21.690 | 149  | 64498    | 5.364  | ng    | # 97     |
| 87) Indeno(1,2,3-cd)pyrene    | 29.093 | 276  | 160760   | 6.895  | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 24.128 | 252  | 350303   | 18.183 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 24.193 | 252  | 120346m  | 6.207  | ng    |          |
| 90) Benzo(a)pyrene            | 25.045 | 252  | 202620   | 12.310 | ng    | # 97     |
| 92) Benzo(g,h,i)perylene      | 30.303 | 276  | 157959   | 8.232  | ng    | 96       |
| -----                         |        |      |          |        |       |          |

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

## Manual Integrations

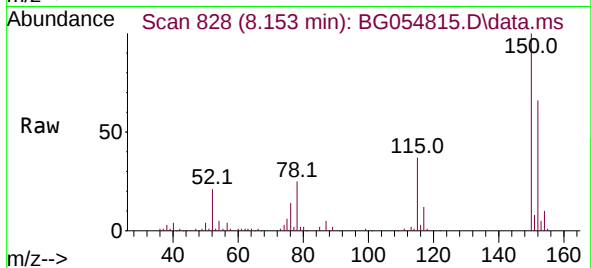
Quant Time: Sep 01 05:07:00 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\8270-BG082522.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 25 17:50:55 2022  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 8.153 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

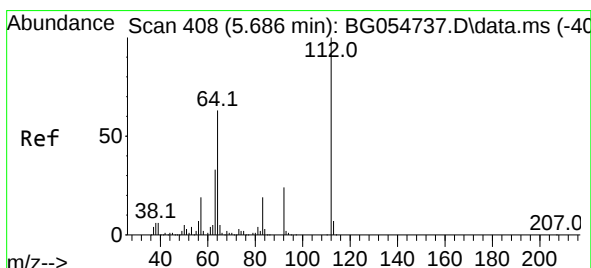
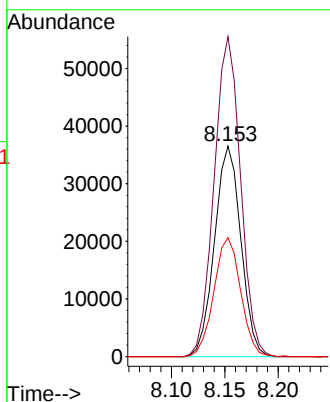
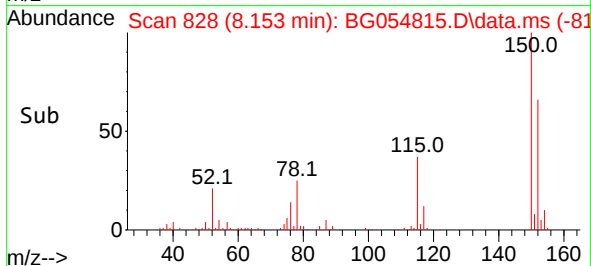
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-344



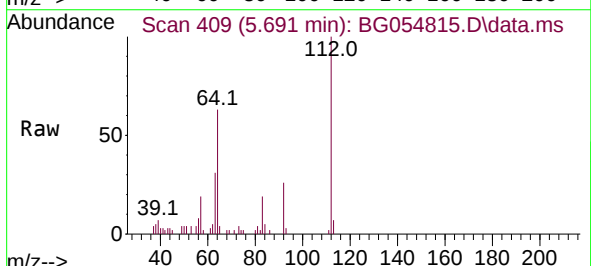
Tgt Ion:152 Resp: 62803  
Ion Ratio Lower Upper  
152 100  
150 152.0 125.2 187.8  
115 56.5 47.9 71.9

Manual Integrations  
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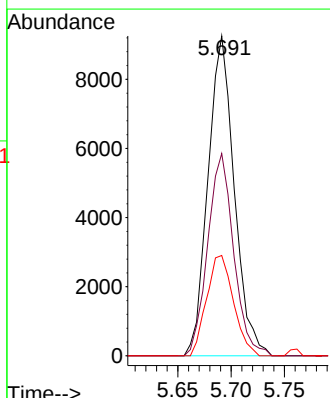
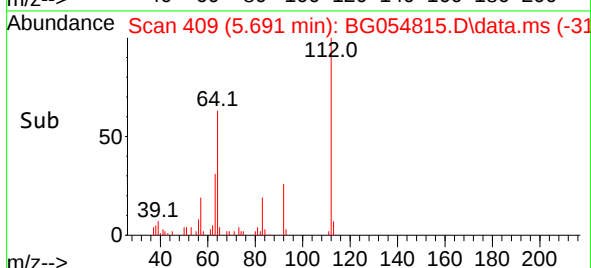
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



#5  
2-Fluorophenol  
Concen: 4.401 ng  
RT: 5.691 min Scan# 409  
Delta R.T. 0.005 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55



Tgt Ion:112 Resp: 15872  
Ion Ratio Lower Upper  
112 100  
64 63.2 49.3 73.9  
63 31.4 26.3 39.5





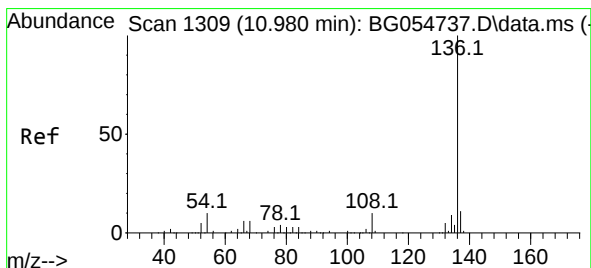
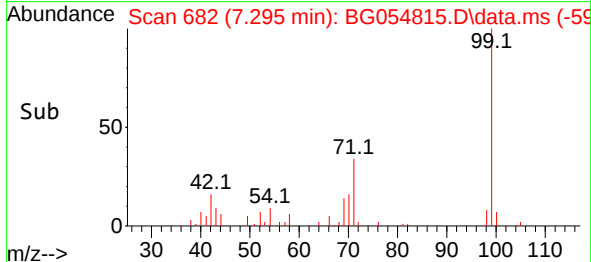
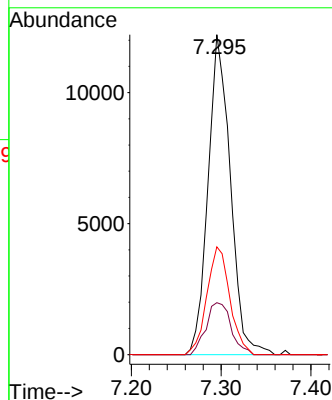
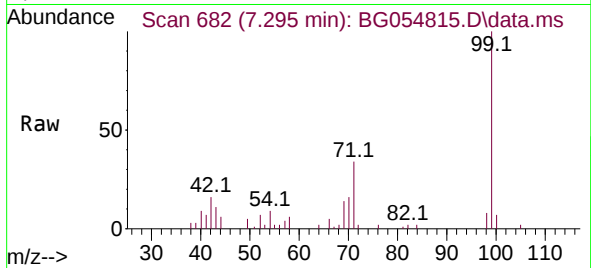
#7  
Phenol-d6  
Concen: 4.267 ng  
RT: 7.295 min Scan# 682  
Delta R.T. -0.001 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

Instrument :  
BNA\_G  
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Tgt Ion: 99 Resp: 21044  
Ion Ratio Lower Upper  
99 100  
42 16.2 14.6 22.0  
71 33.7 24.6 37.0

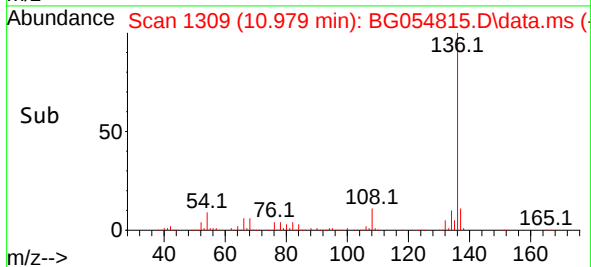
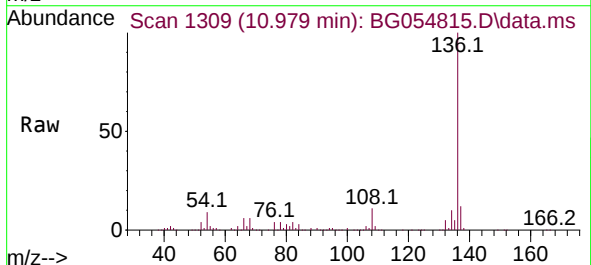
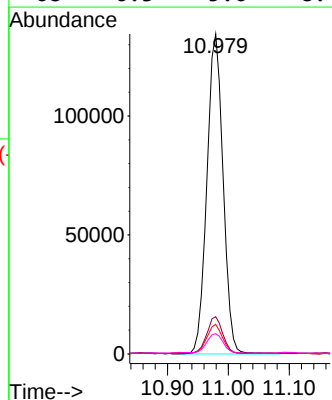
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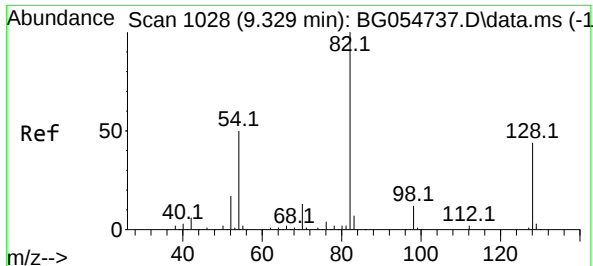
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.979 min Scan# 1309  
Delta R.T. -0.001 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

Tgt Ion:136 Resp: 247787  
Ion Ratio Lower Upper  
136 100  
137 11.6 9.2 13.8  
54 9.2 7.7 11.5  
68 6.3 5.6 8.4





#23

Nitrobenzene-d5

Concen: 3.013 ng

RT: 9.328 min Scan# 1028

Delta R.T. -0.001 min

Lab File: BG054815.D

Acq: 31 Aug 2022 20:55

Instrument :

BNA\_G

ClientSampleId :

ETGI-344

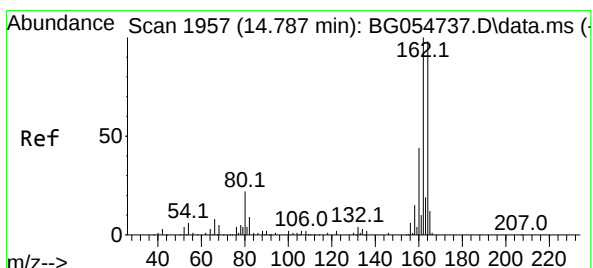
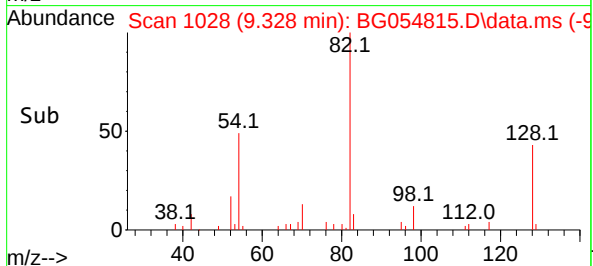
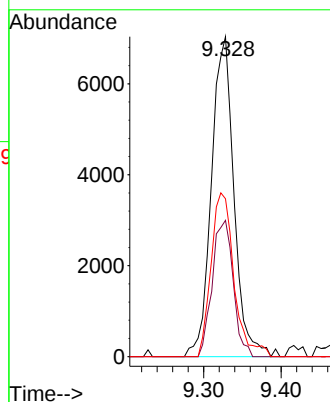
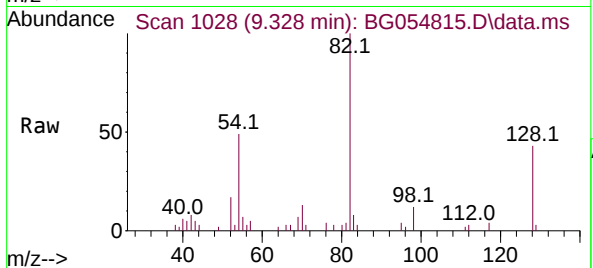
|             |                |
|-------------|----------------|
| Tgt Ion: 82 | Resp: 1422     |
| Ion Ratio   | Lower Upper    |
| 82          | 100            |
| 128         | 42.6 32.2 48.2 |
| 54          | 49.3 41.4 62.0 |

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/01/2022



#39

Acenaphthene-d10

Concen: 20.000 ng

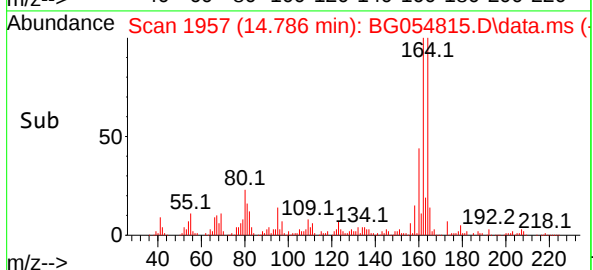
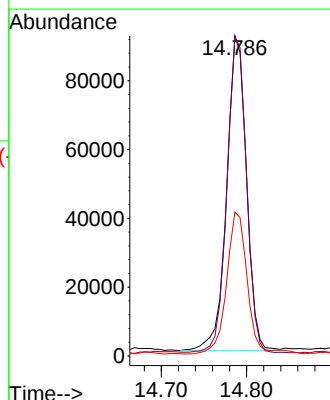
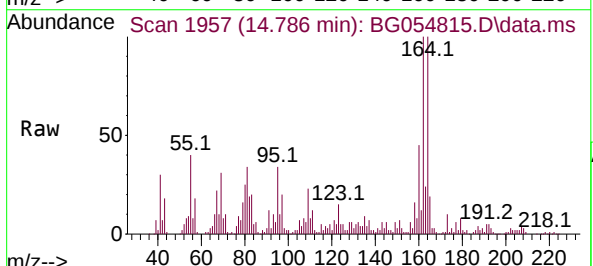
RT: 14.786 min Scan# 1957

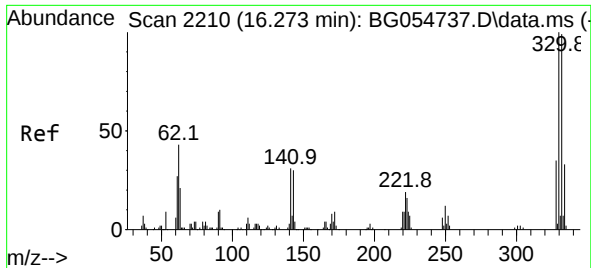
Delta R.T. -0.001 min

Lab File: BG054815.D

Acq: 31 Aug 2022 20:55

|              |                 |
|--------------|-----------------|
| Tgt Ion: 164 | Resp: 147644    |
| Ion Ratio    | Lower Upper     |
| 164          | 100             |
| 162          | 99.7 83.0 124.4 |
| 160          | 44.9 38.0 57.0  |





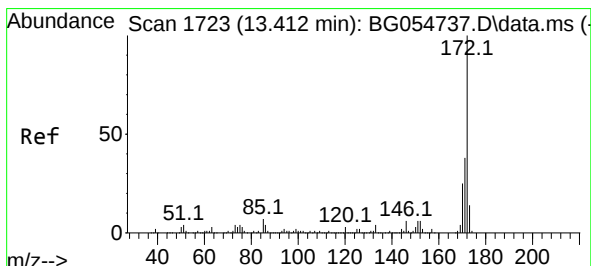
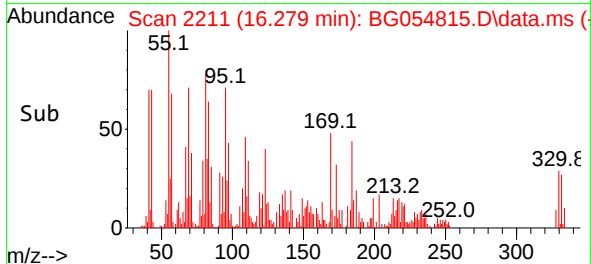
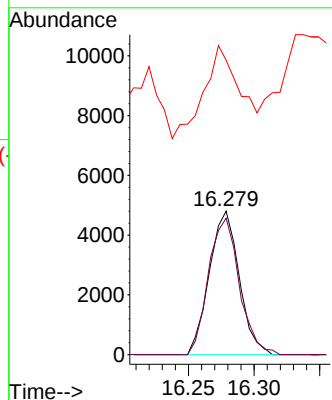
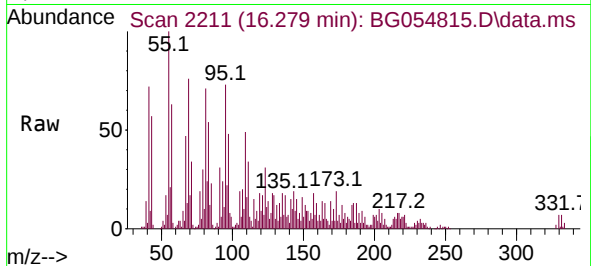
#42  
2,4,6-Tribromophenol  
Concen: 4.129 ng  
RT: 16.279 min Scan# 2210  
Delta R.T. 0.005 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-344

Tgt Ion:330 Resp: 7618  
Ion Ratio Lower Upper  
330 100  
332 97.7 79.8 119.6  
141 53.6 26.8 40.2

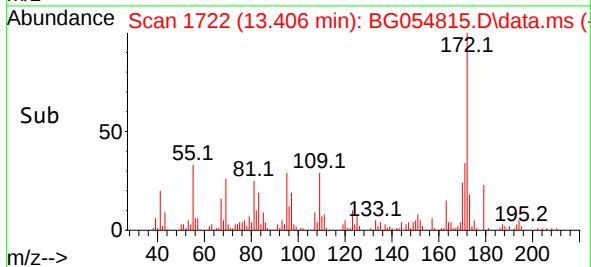
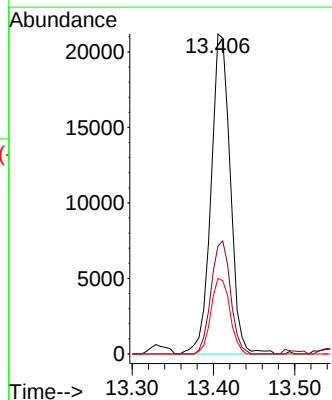
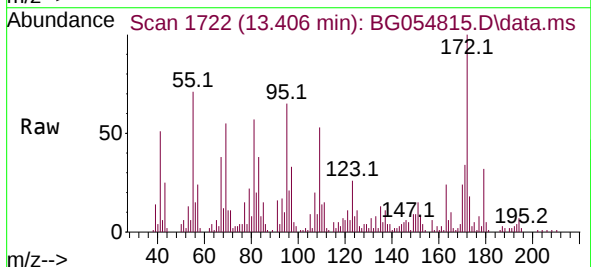
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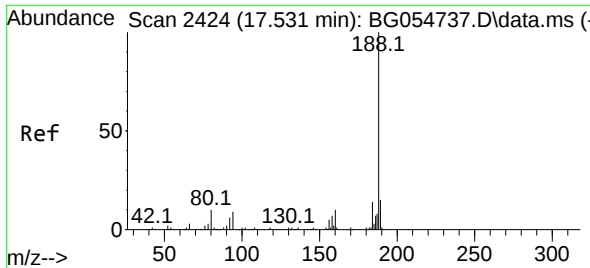
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



#45  
2-Fluorobiphenyl  
Concen: 3.553 ng  
RT: 13.406 min Scan# 1722  
Delta R.T. -0.006 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

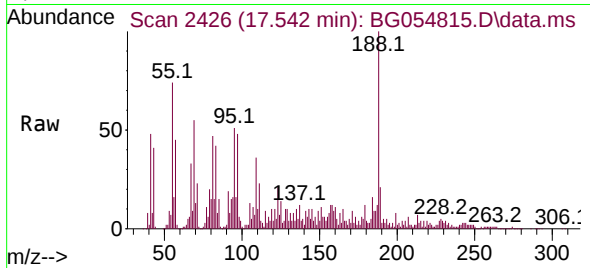
Tgt Ion:172 Resp: 34902  
Ion Ratio Lower Upper  
172 100  
171 33.7 31.2 46.8  
170 23.6 20.6 30.8





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 17.542 min Scan# 2424  
Delta R.T. 0.011 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

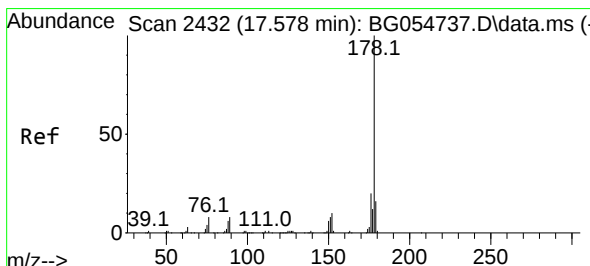
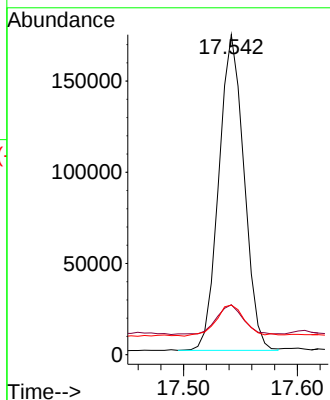
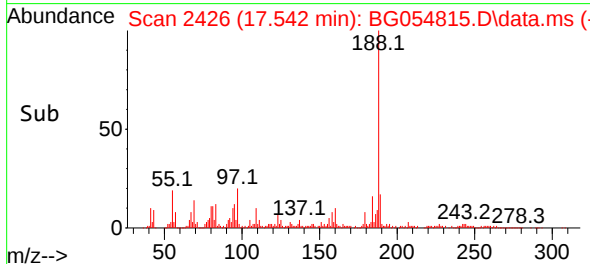
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-344



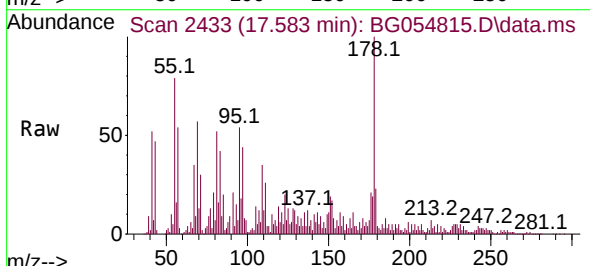
Tgt Ion:188 Resp: 266281  
Ion Ratio Lower Upper  
188 100  
94 15.6 7.0 10.4  
80 15.5 7.9 11.9

Manual Integrations  
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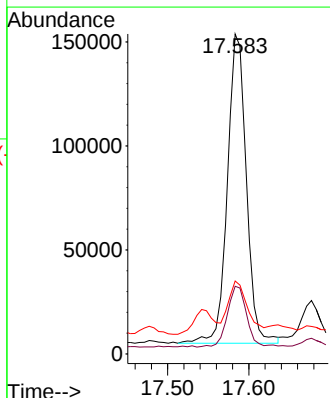
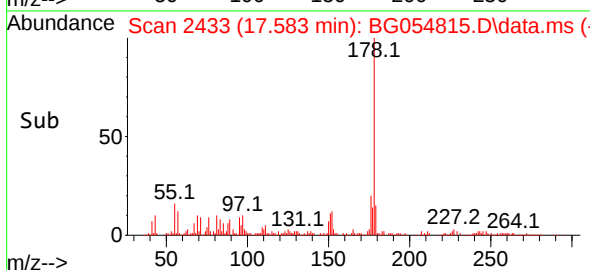
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

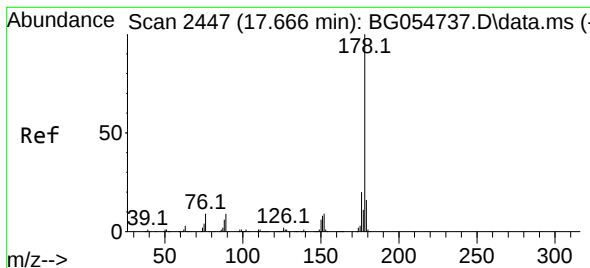


#71  
Phenanthrene  
Concen: 17.052 ng  
RT: 17.583 min Scan# 2433  
Delta R.T. 0.005 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55



Tgt Ion:178 Resp: 241881  
Ion Ratio Lower Upper  
178 100  
176 21.1 16.6 25.0  
179 22.8 12.8 19.2





#72

Anthracene

Concen: 2.262 ng

RT: 17.677 min Scan# 2449

Delta R.T. 0.011 min

Lab File: BG054815.D

Acq: 31 Aug 2022 20:55

Instrument :

BNA\_G

ClientSampleId :

ETGI-344

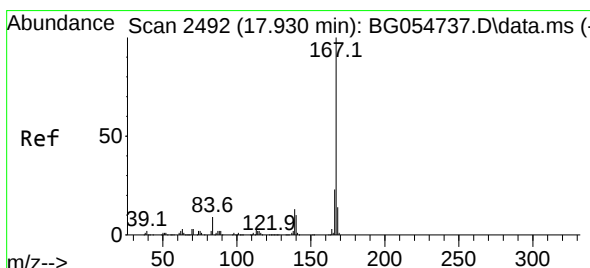
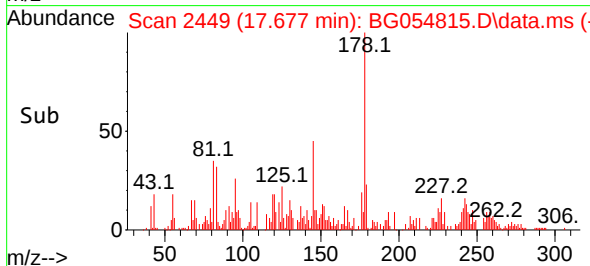
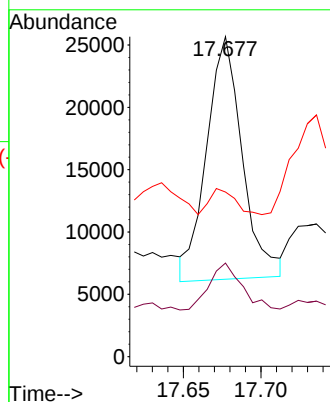
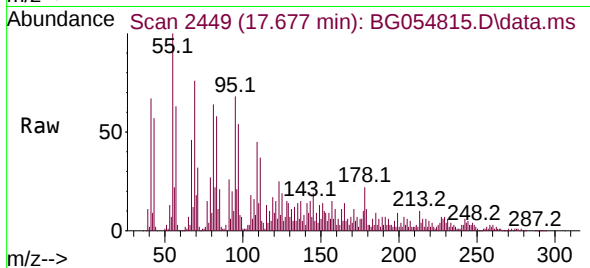
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:178 | Resp: | 31192      |
| Ion Ratio   | Lower | Upper      |
| 178         | 100   |            |
| 176         | 29.2  | 16.2 24.4# |
| 179         | 51.4  | 12.9 19.3# |

Manual Integrations

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Supervised By :Jagrut Upadhyay 09/01/2022



#73

Carbazole

Concen: 2.303 ng

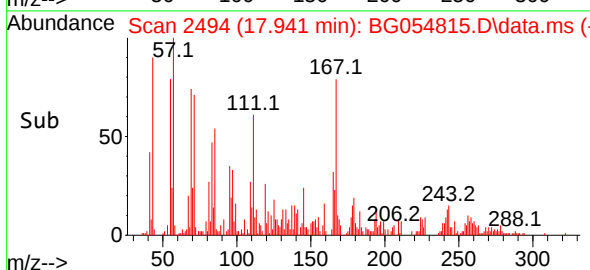
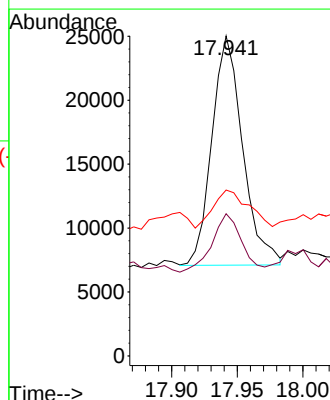
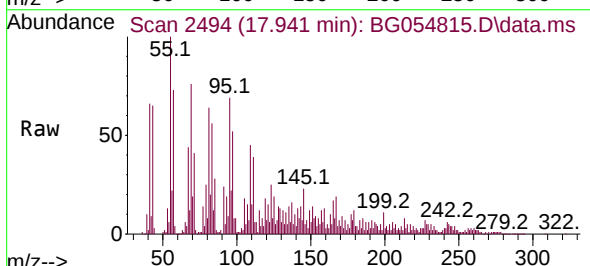
RT: 17.941 min Scan# 2494

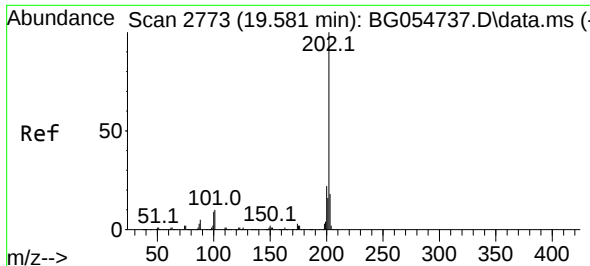
Delta R.T. 0.011 min

Lab File: BG054815.D

Acq: 31 Aug 2022 20:55

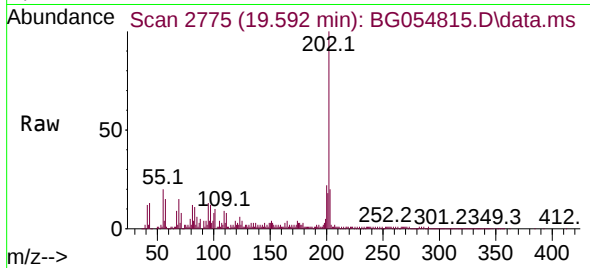
|             |       |            |
|-------------|-------|------------|
| Tgt Ion:167 | Resp: | 29267      |
| Ion Ratio   | Lower | Upper      |
| 167         | 100   |            |
| 166         | 44.4  | 18.8 28.2# |
| 139         | 51.8  | 10.2 15.4# |





#75  
Fluoranthene  
Concen: 32.668 ng  
RT: 19.592 min Scan# 21  
Delta R.T. 0.011 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

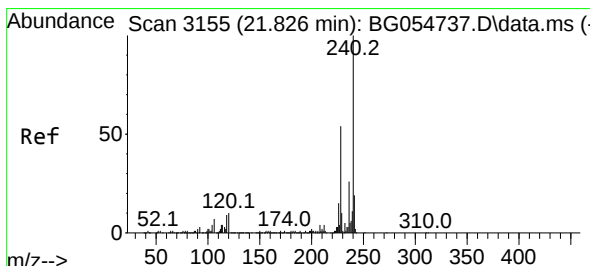
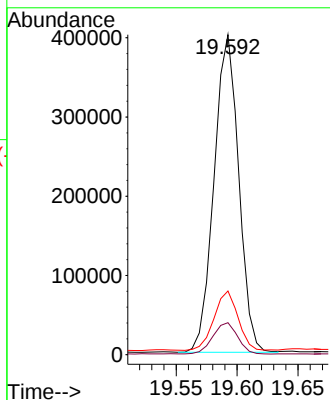
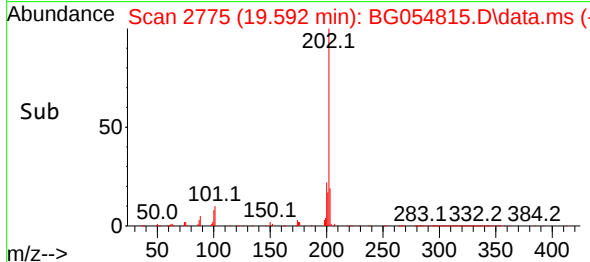
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-344



Tgt Ion:202 Resp: 563720  
Ion Ratio Lower Upper  
202 100  
101 10.0 0.0 31.4  
203 19.9 0.0 38.6

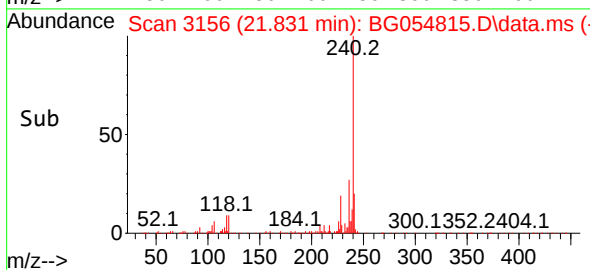
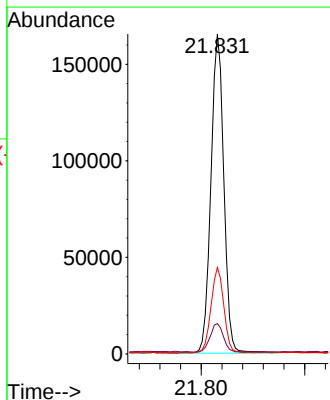
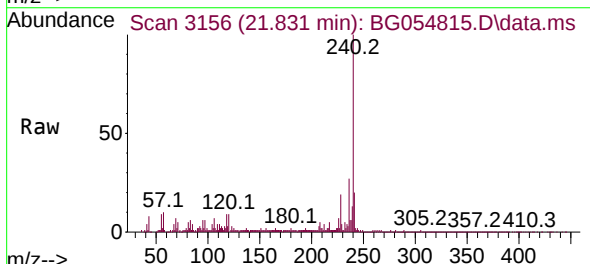
Manual Integrations  
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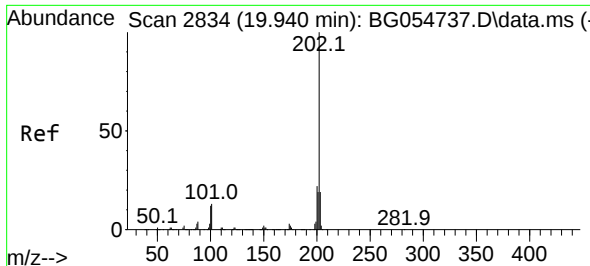
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 21.831 min Scan# 3156  
Delta R.T. 0.005 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

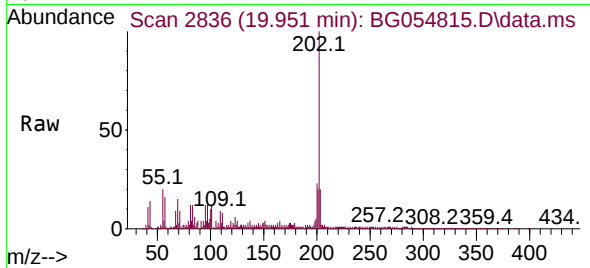
Tgt Ion:240 Resp: 286921  
Ion Ratio Lower Upper  
240 100  
120 9.5 8.2 12.4  
236 27.0 21.2 31.8





#78  
Pyrene  
Concen: 23.672 ng  
RT: 19.951 min Scan# 2836  
Delta R.T. 0.011 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

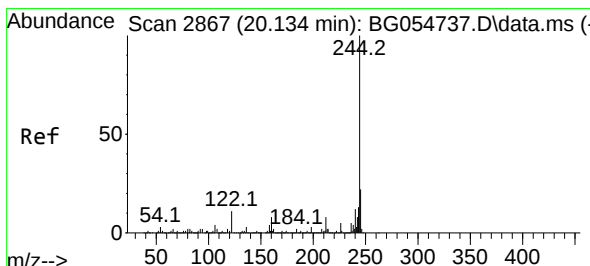
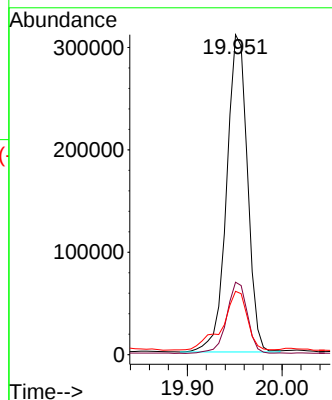
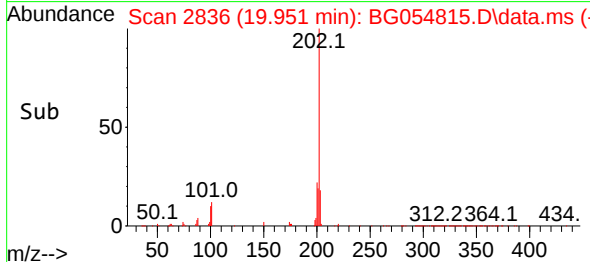
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-344



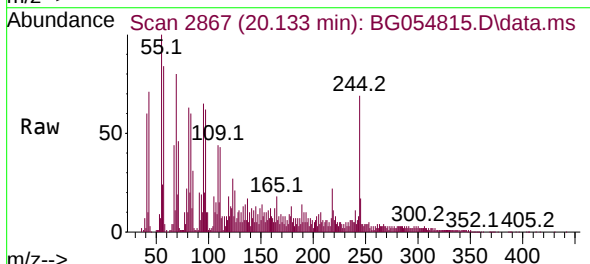
Tgt Ion:202 Resp: 473610  
Ion Ratio Lower Upper  
202 100  
200 22.7 17.8 26.6  
203 19.8 14.6 21.8

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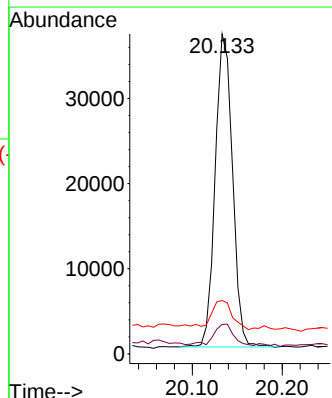
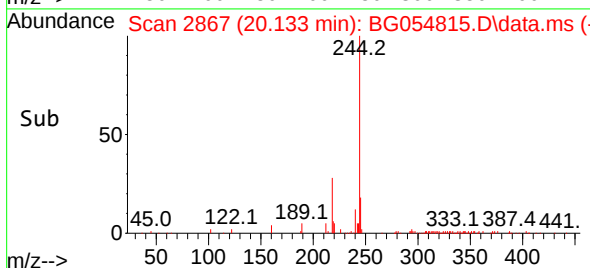
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

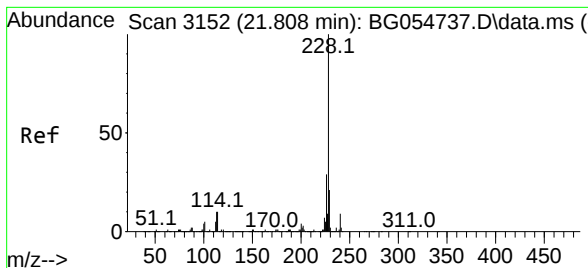


#79  
Terphenyl-d14  
Concen: 3.396 ng  
RT: 20.133 min Scan# 2867  
Delta R.T. -0.001 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55



Tgt Ion:244 Resp: 49184  
Ion Ratio Lower Upper  
244 100  
212 9.2 6.2 9.2  
122 16.7 9.0 13.6





#81

Benzo(a)anthracene

Concen: 11.324 ng

RT: 21.813 min Scan# 3153

Delta R.T. 0.005 min

Lab File: BG054815.D

Acq: 31 Aug 2022 20:55

Instrument :

BNA\_G

ClientSampleId :

ETGI-344

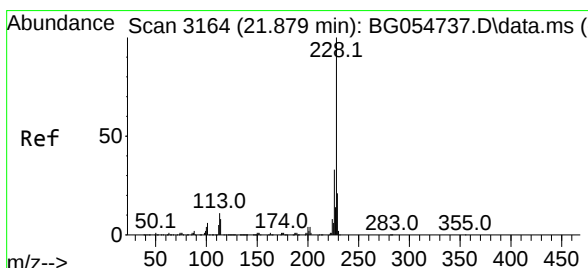
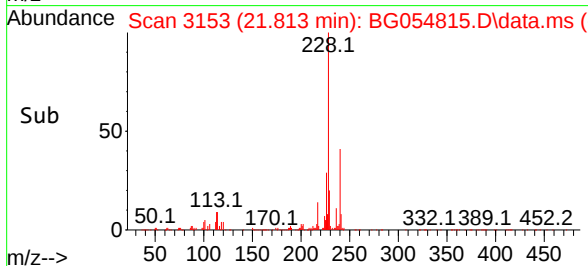
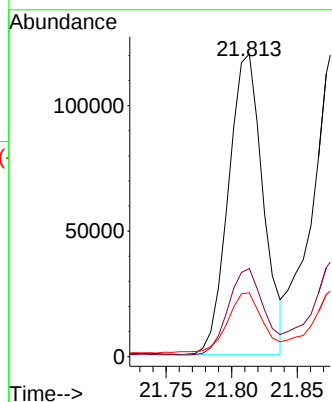
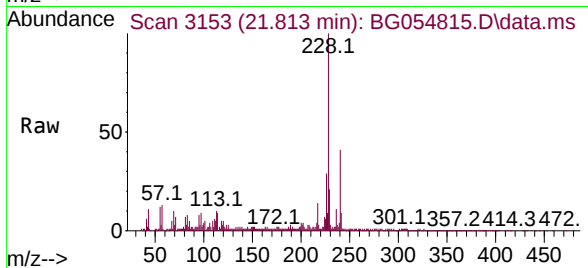
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 22029 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.1  | 23.4  | 35.2  |
| 229       | 21.1  | 16.5  | 24.7  |

Manual Integrations

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Reviewed By :Christian Giraldo 09/01/2022

Supervised By :Jagrut Upadhyay 09/01/2022



#83

Chrysene

Concen: 13.678 ng

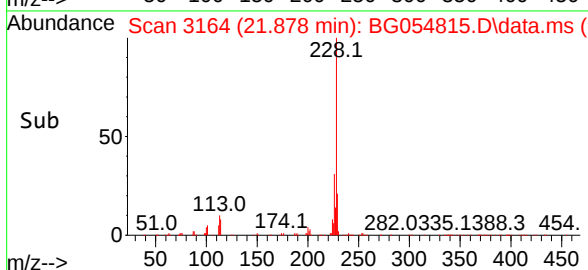
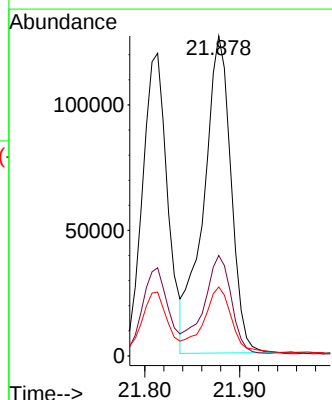
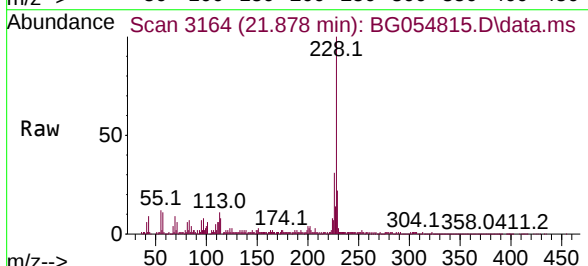
RT: 21.878 min Scan# 3164

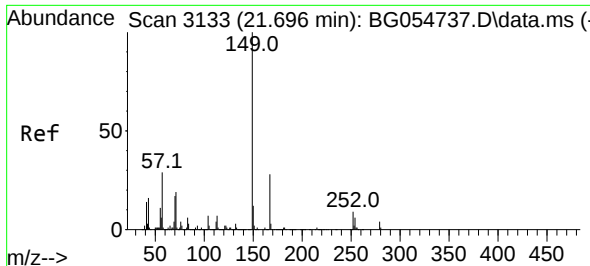
Delta R.T. -0.001 min

Lab File: BG054815.D

Acq: 31 Aug 2022 20:55

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 254418 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.4  | 25.5  | 38.3   |
| 229       | 21.5  | 16.8  | 25.2   |





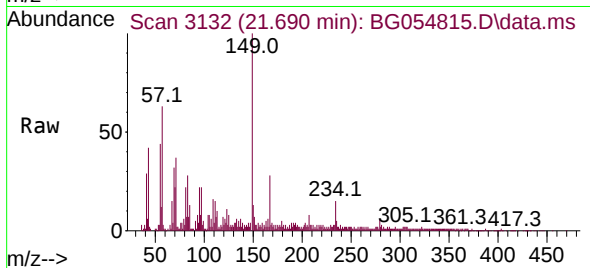
#84  
Bis(2-ethylhexyl)phthalate  
Concen: 5.364 ng  
RT: 21.690 min Scan# 3133  
Delta R.T. -0.006 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

Instrument :

BNA\_G

ClientSampleId :

ETGI-344

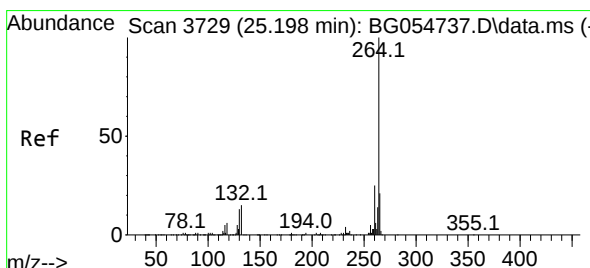
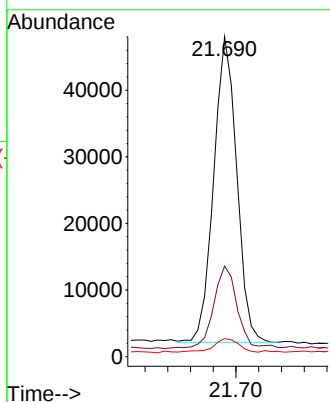
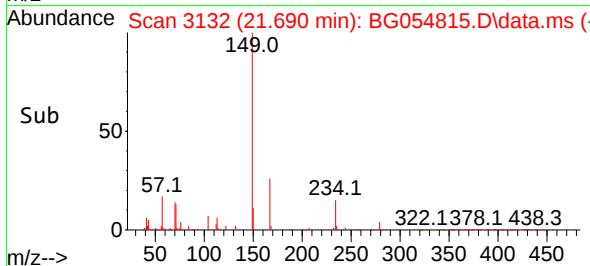


Tgt Ion:149 Resp: 64498  
Ion Ratio Lower Upper  
149 100  
167 28.3 21.4 32.0  
279 5.6 3.1 4.7

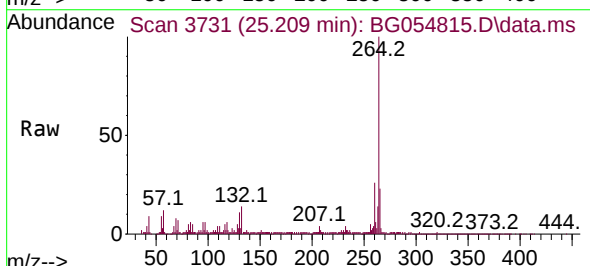
Manual Integrations

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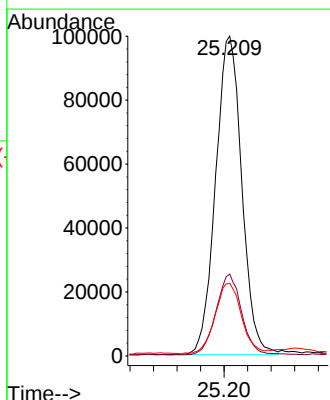
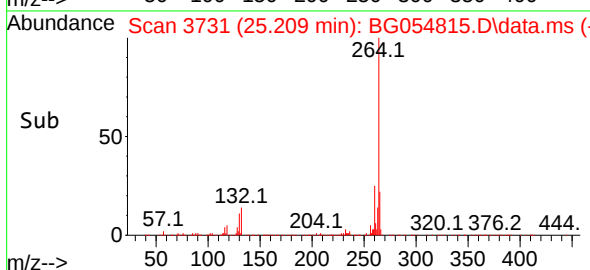
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

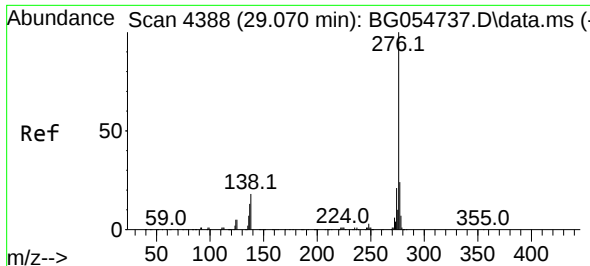


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 25.209 min Scan# 3731  
Delta R.T. 0.011 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55



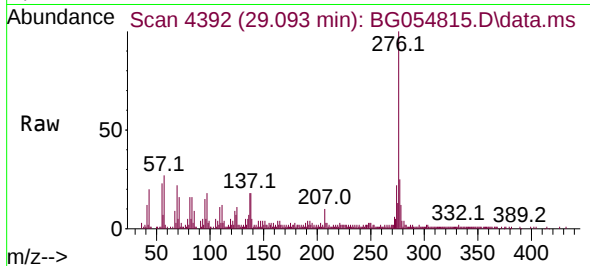
Tgt Ion:264 Resp: 307119  
Ion Ratio Lower Upper  
264 100  
260 25.6 19.9 29.9  
265 22.7 16.9 25.3





#87  
 Indeno(1,2,3-cd)pyrene  
 Concen: 6.895 ng  
 RT: 29.093 min Scan# 4388  
 Delta R.T. 0.023 min  
 Lab File: BG054815.D  
 Acq: 31 Aug 2022 20:55

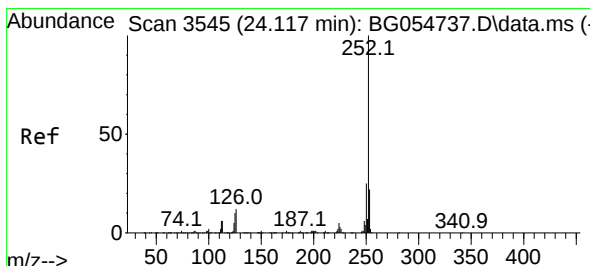
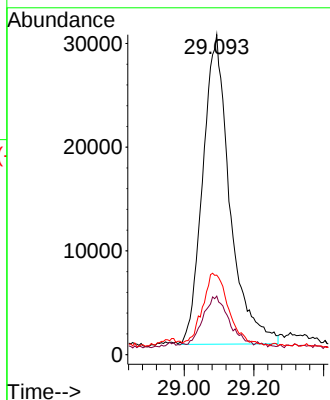
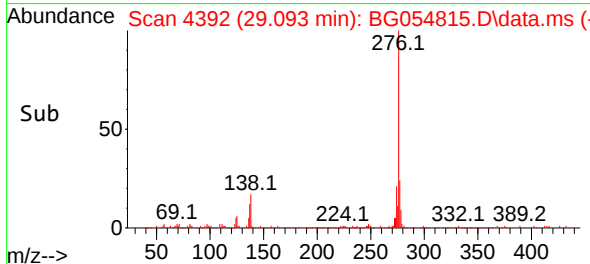
Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETGI-344



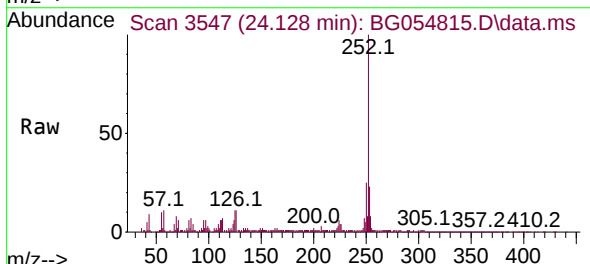
Tgt Ion:276 Resp: 160760  
 Ion Ratio Lower Upper  
 276 100  
 138 15.3 12.0 18.0  
 277 23.0 20.2 30.4

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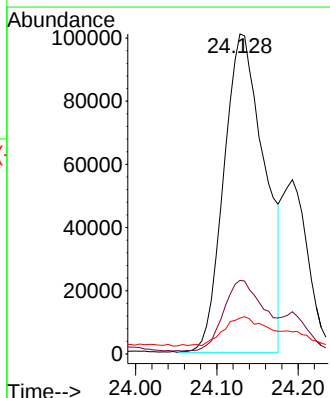
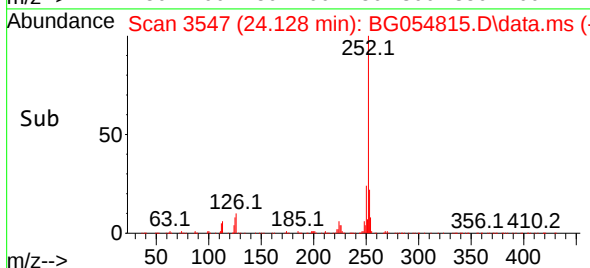
Reviewed By :Christian Giraldo 09/01/2022  
 Supervised By :Jagrut Upadhyay 09/01/2022

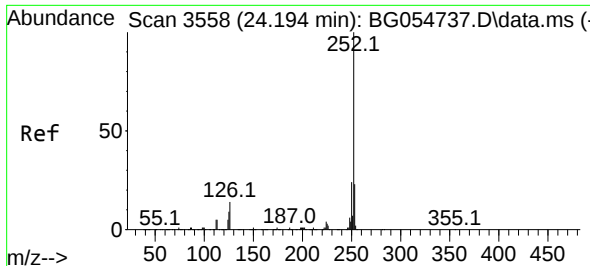


#88  
 Benzo(b)fluoranthene  
 Concen: 18.183 ng  
 RT: 24.128 min Scan# 3547  
 Delta R.T. 0.011 min  
 Lab File: BG054815.D  
 Acq: 31 Aug 2022 20:55



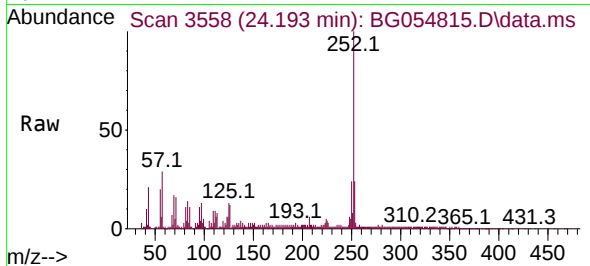
Tgt Ion:252 Resp: 350303  
 Ion Ratio Lower Upper  
 252 100  
 253 23.0 18.0 27.0  
 125 11.2 8.1 12.1





#89  
Benzo(k)fluoranthene  
Concen: 6.207 ng m  
RT: 24.193 min Scan# 3558  
Delta R.T. -0.001 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55

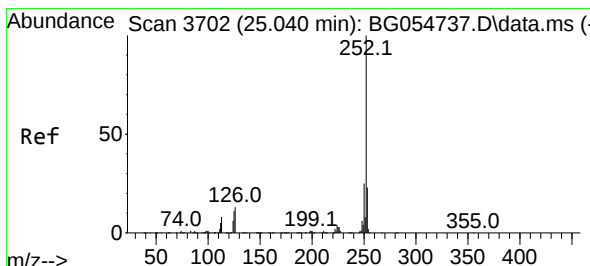
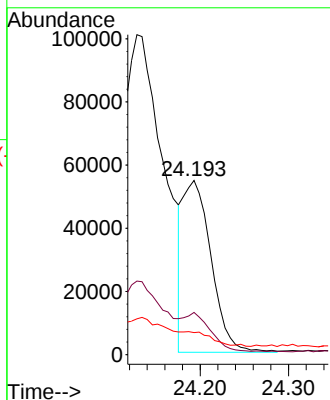
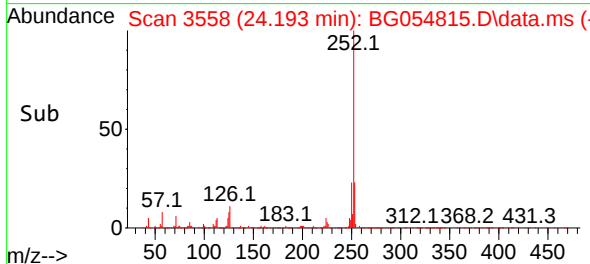
Instrument :  
BNA\_G  
ClientSampleId :  
ETGI-344



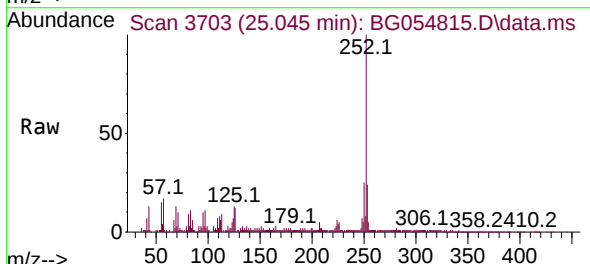
Tgt Ion:252 Resp: 120346  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.8 26.8  
125 12.7 8.2 12.4

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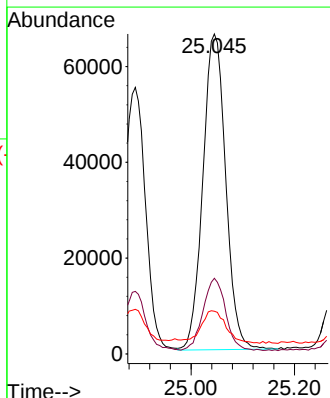
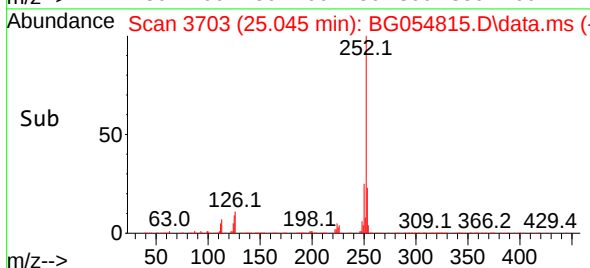
Reviewed By :Christian Giraldo 09/01/2022  
Supervised By :Jagrut Upadhyay 09/01/2022

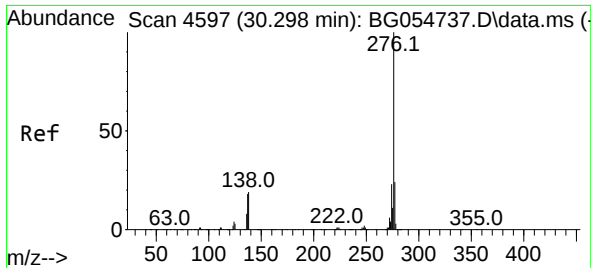


#90  
Benzo(a)pyrene  
Concen: 12.310 ng  
RT: 25.045 min Scan# 3703  
Delta R.T. 0.005 min  
Lab File: BG054815.D  
Acq: 31 Aug 2022 20:55



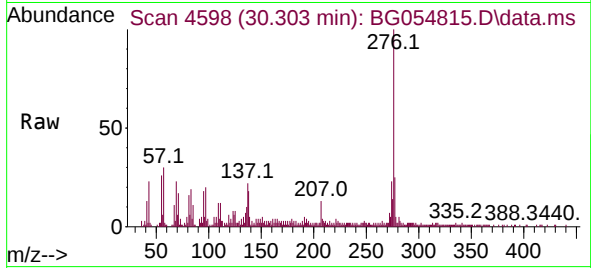
Tgt Ion:252 Resp: 202620  
Ion Ratio Lower Upper  
252 100  
253 23.6 18.3 27.5  
125 13.3 8.8 13.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 8.232 ng  
 RT: 30.303 min Scan# 4598  
 Delta R.T. 0.005 min  
 Lab File: BG054815.D  
 Acq: 31 Aug 2022 20:55

Instrument :  
 BNA\_G  
 ClientSampleId :  
 ETGI-344



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 157959 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 24.9  | 19.4  | 29.0   |
| 138       | 17.9  | 16.6  | 25.0   |

Manual Integrations  
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Reviewed By :Christian Giraldo 09/01/2022  
 Supervised By :Jagrut Upadhyay 09/01/2022

