

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040621\  
 Data File : BG048612.D  
 Acq On : 6 Apr 2021 20:27  
 Operator : CG/JU  
 Sample : M1933-16  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BENNETT\_BH\_05\_1-1.5

Manual Integrations  
 APPROVED

mohammad  
 4/8/2021 8:06:49 AM

Quant Time: Apr 07 00:38:24 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG033021.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Apr 02 10:20:56 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.096  | 152  | 27094    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.916 | 136  | 109757   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.741 | 164  | 73162    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.497 | 188  | 170490   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.798 | 240  | 181085   | 20.00 | ng    | # 0.00   |
| 86) Perylene-d12            | 25.141 | 264  | 180253   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.640  | 112  | 114436   | 74.57 | ng    | 0.00     |
| 7) Phenol-d6                | 7.244  | 99   | 151695   | 68.16 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.259  | 82   | 110933   | 48.93 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.239 | 330  | 70307    | 73.10 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.366 | 172  | 240291   | 48.82 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.105 | 244  | 407275   | 41.13 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 71) Phenanthrene            | 17.544 | 178  | 81593    | 9.22  | ng    | 99       |
| 75) Fluoranthene            | 19.553 | 202  | 146450   | 13.35 | ng    | 98       |
| 78) Pyrene                  | 19.912 | 202  | 118364   | 9.51  | ng    | 97       |
| 81) Benzo(a)anthracene      | 21.774 | 228  | 67155    | 5.55  | ng    | 95       |
| 83) Chrysene                | 21.845 | 228  | 66642    | 5.77  | ng    | 94       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.966 | 276  | 37320    | 2.95  | ng    | # 78     |
| 88) Benzo(b)fluoranthene    | 24.071 | 252  | 81783    | 6.99  | ng    | 93       |
| 89) Benzo(k)fluoranthene    | 24.136 | 252  | 30080m   | 2.67  | ng    |          |
| 90) Benzo(a)pyrene          | 24.970 | 252  | 57010    | 5.28  | ng    | # 98     |
| 92) Benzo(g,h,i)perylene    | 30.153 | 276  | 34014    | 3.22  | ng    | # 93     |
| -----                       |        |      |          |       |       |          |

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

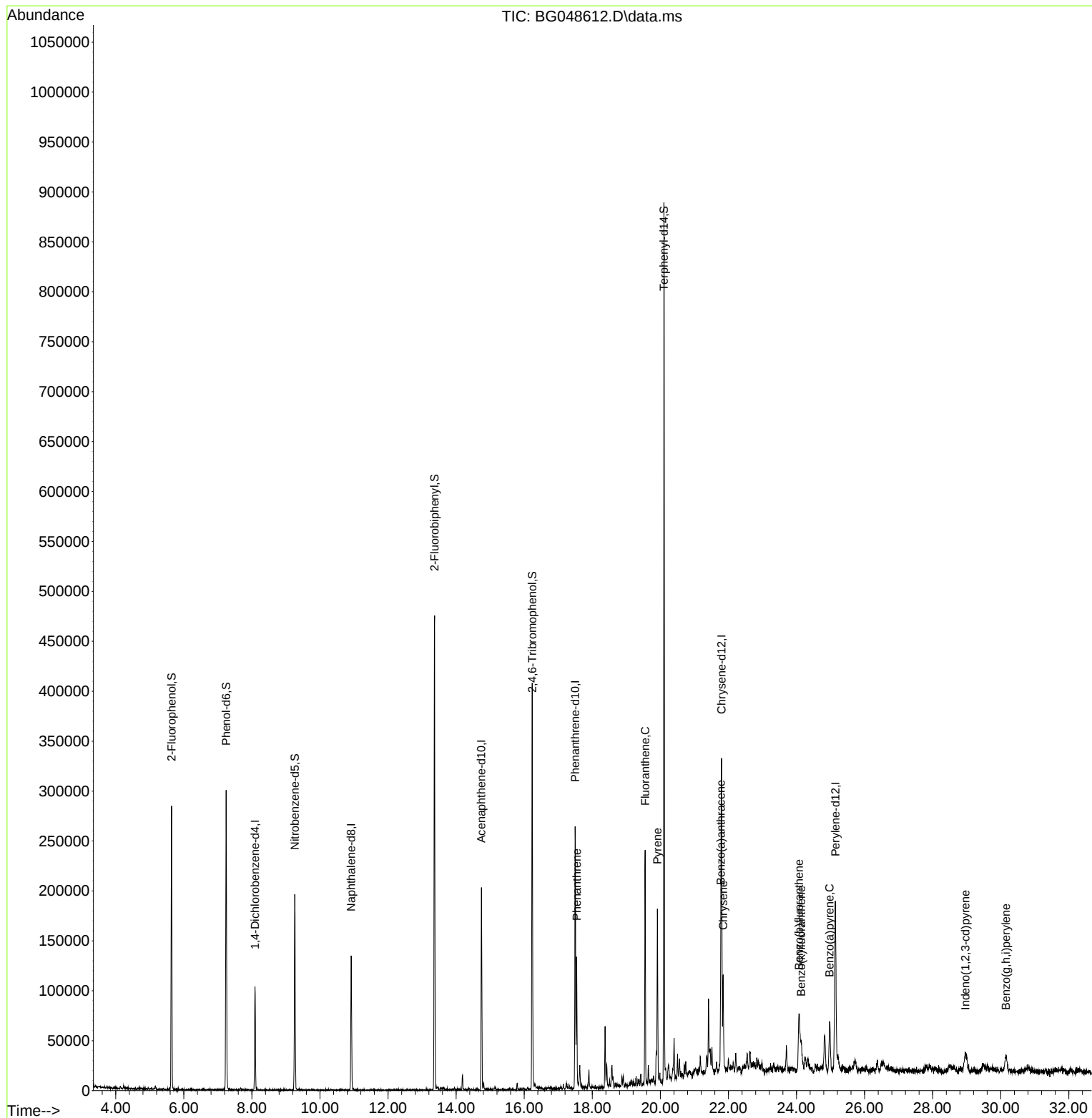
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG040621\  
Data File : BG048612.D  
Acq On : 6 Apr 2021 20:27  
Operator : CG/JU  
Sample : M1933-16  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

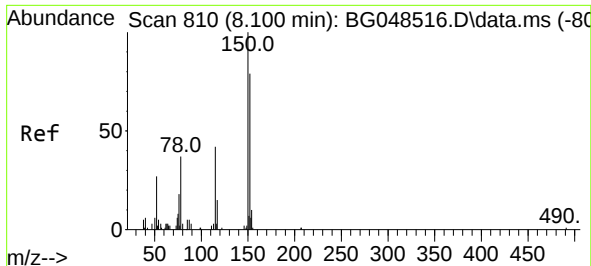
Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

Manual Integrations  
APPROVED

mohammad  
4/8/2021 8:06:49 AM

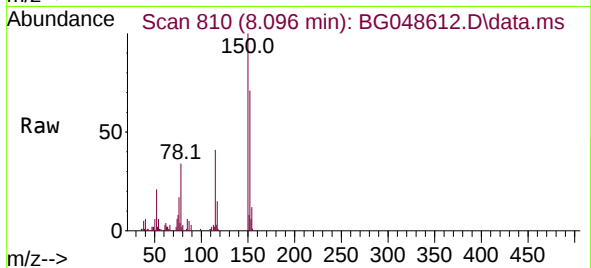
Quant Time: Apr 07 00:38:24 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG033021.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Apr 02 10:20:56 2021  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.096 min Scan# 810  
Delta R.T. 0.002 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

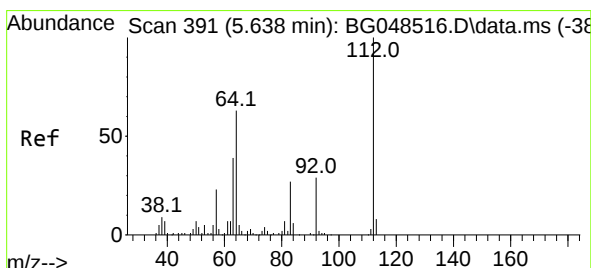
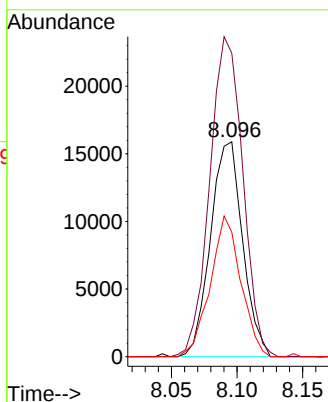
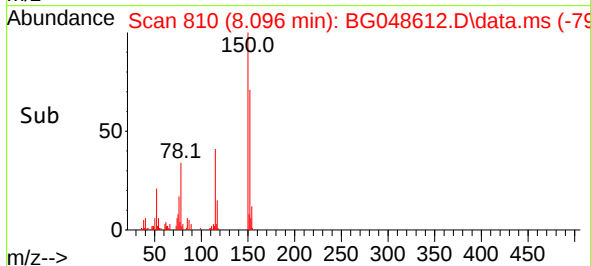
Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5



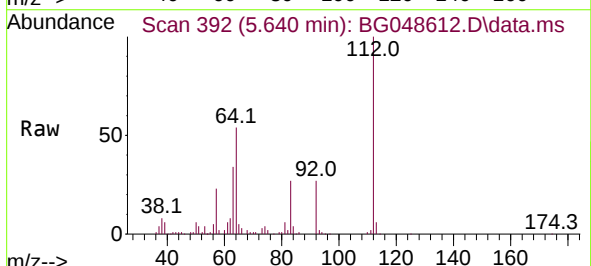
Tgt Ion:152 Resp: 27094  
Ion Ratio Lower Upper  
152 100  
150 141.2 101.3 151.9  
115 58.0 42.3 63.5

Manual Integrations  
APPROVED

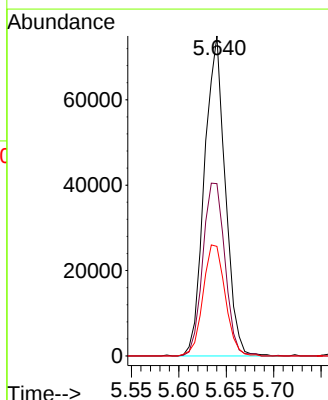
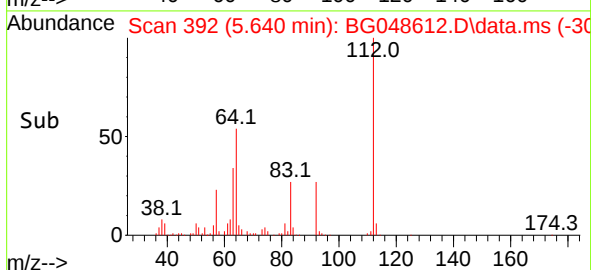
mohammad  
4/8/2021 8:06:49 AM

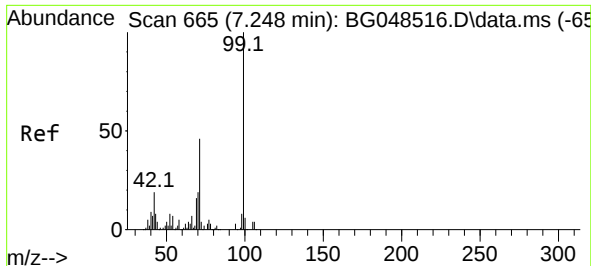


#5  
2-Fluorophenol  
Concen: 74.57 ng  
RT: 5.640 min Scan# 392  
Delta R.T. 0.002 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



Tgt Ion:112 Resp: 114436  
Ion Ratio Lower Upper  
112 100  
64 53.9 50.4 75.6  
63 34.2 31.4 47.2





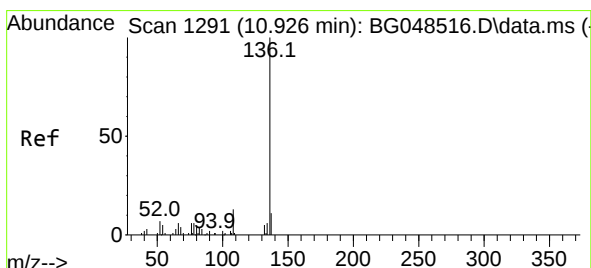
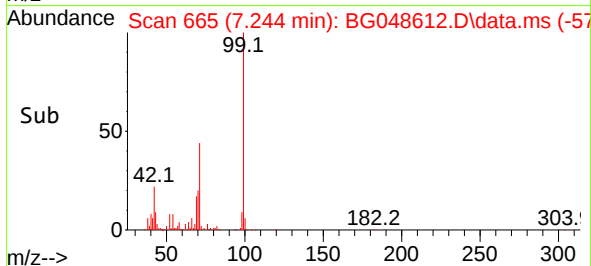
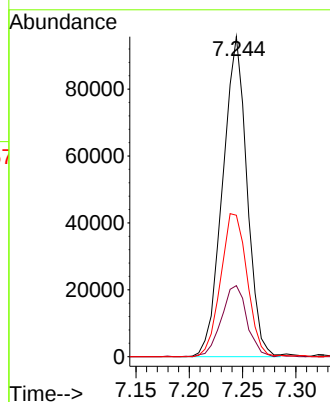
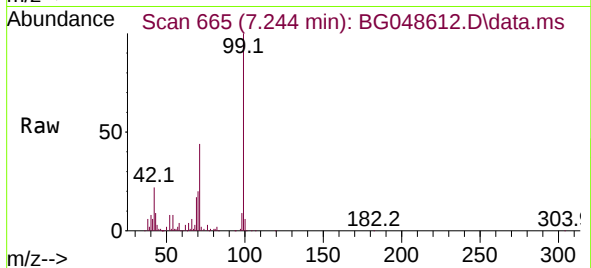
#7  
Phenol-d6  
Concen: 68.16 ng  
RT: 7.244 min Scan# 665  
Delta R.T. -0.004 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

Tgt Ion: 99 Resp: 151695  
Ion Ratio Lower Upper  
99 100  
42 22.2 15.5 23.3  
71 44.2 36.6 54.8

Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

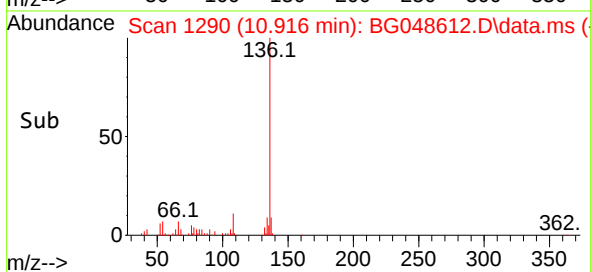
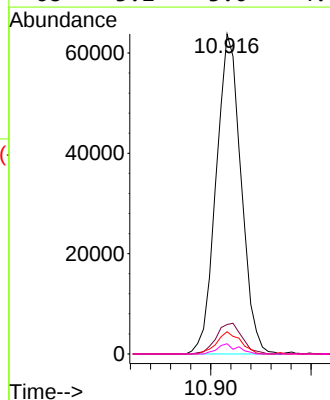
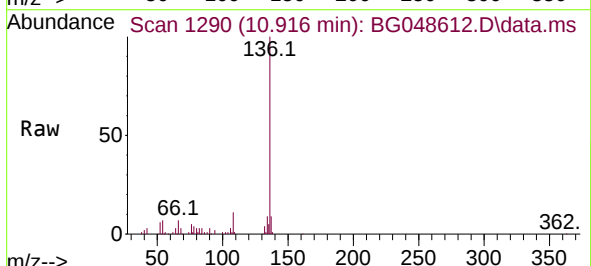
Manual Integrations  
APPROVED

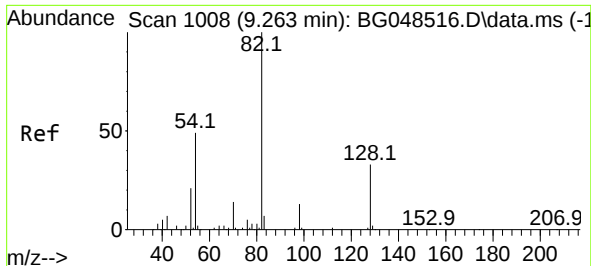
mohammad  
4/8/2021 8:06:49 AM



#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.916 min Scan# 1290  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

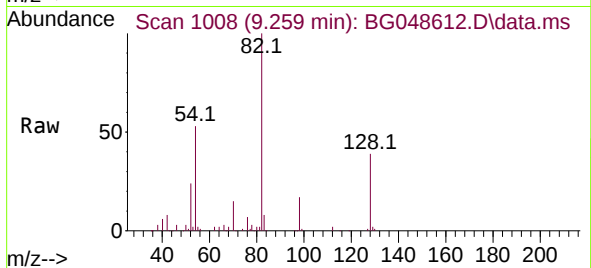
Tgt Ion: 136 Resp: 109757  
Ion Ratio Lower Upper  
136 100  
137 9.2 8.6 12.8  
54 6.9 4.2 6.4#  
68 3.2 3.0 4.4





#23  
Nitrobenzene-d5  
Concen: 48.93 ng  
RT: 9.259 min Scan# 1008  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

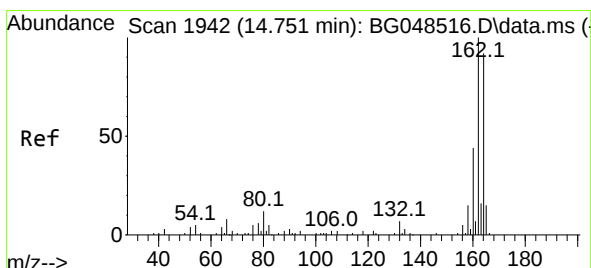
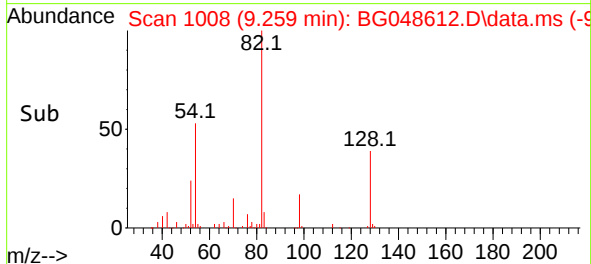
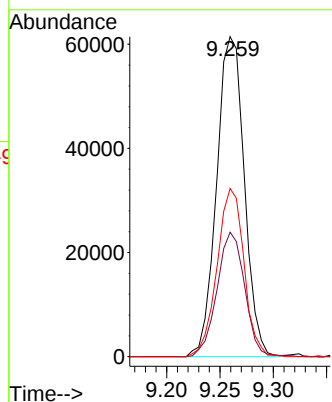
Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5



|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 82    | Resp: | 110933 |
| Ion Ratio | Lower | Upper |        |
| 82        | 100   |       |        |
| 128       | 38.9  | 26.2  | 39.4   |
| 54        | 52.6  | 38.9  | 58.3   |

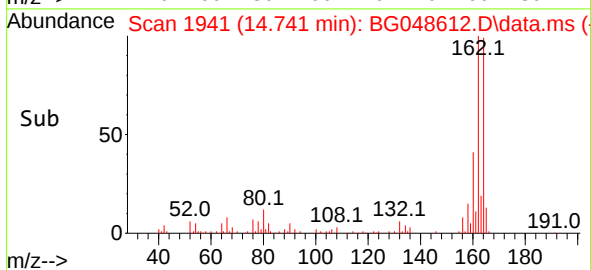
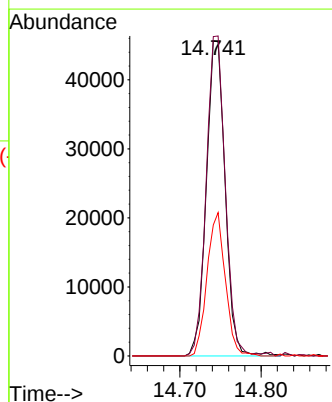
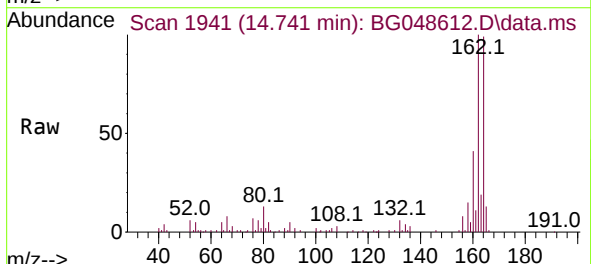
Manual Integrations  
APPROVED

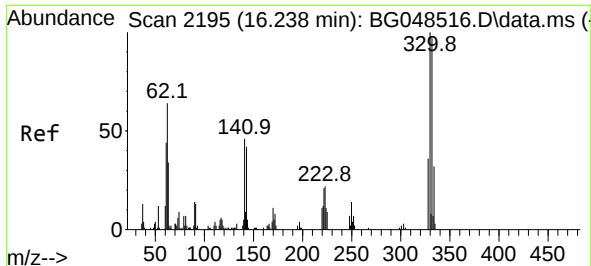
mohammad  
4/8/2021 8:06:49 AM



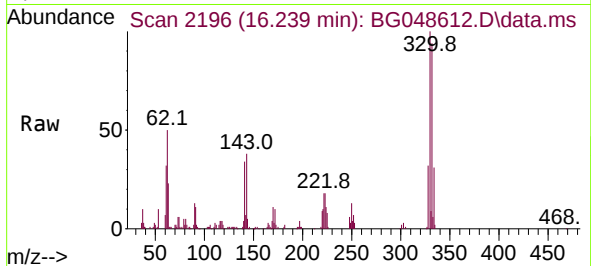
#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.741 min Scan# 1941  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 73162 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 101.4 | 87.0  | 130.6 |
| 160       | 41.6  | 38.4  | 57.6  |

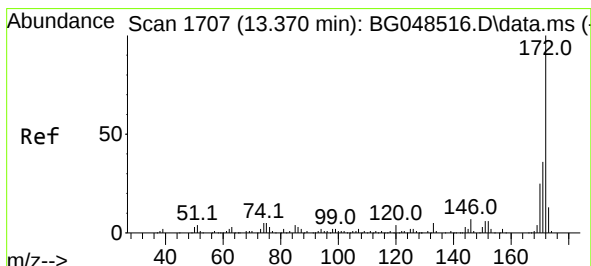
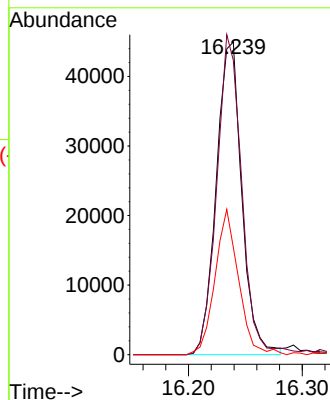
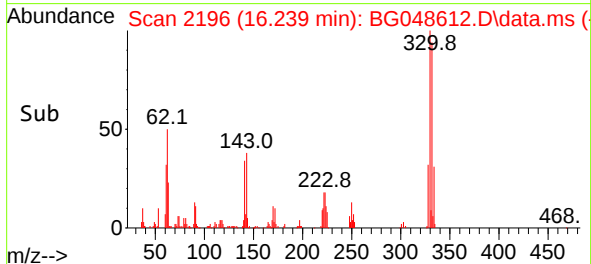




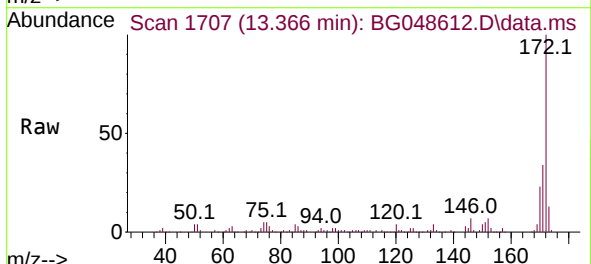
#42  
2,4,6-Tribromophenol  
Concen: 73.10 ng  
RT: 16.239 min Scan# 2196  
Delta R.T. -0.004 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



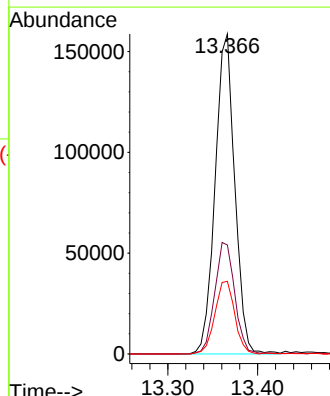
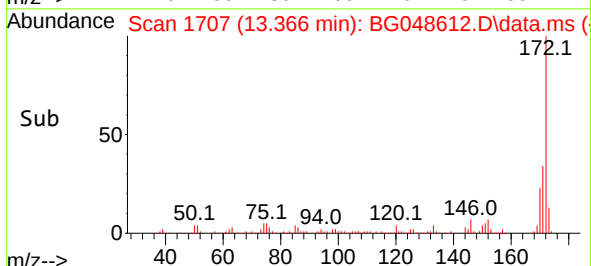
Tgt Ion:330 Resp: 70307  
Ion Ratio Lower Upper  
330 100  
332 99.8 77.6 116.4  
141 42.8 34.6 52.0



#45  
2-Fluorobiphenyl  
Concen: 48.82 ng  
RT: 13.366 min Scan# 1707  
Delta R.T. -0.004 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



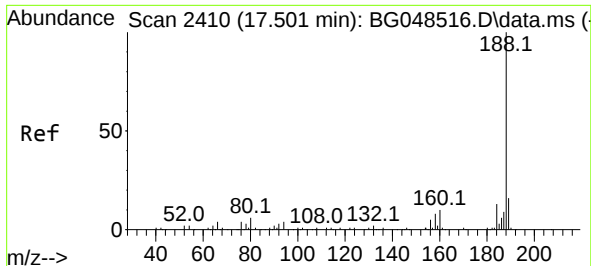
Tgt Ion:172 Resp: 240291  
Ion Ratio Lower Upper  
172 100  
171 34.1 28.5 42.7  
170 22.7 19.8 29.6



Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

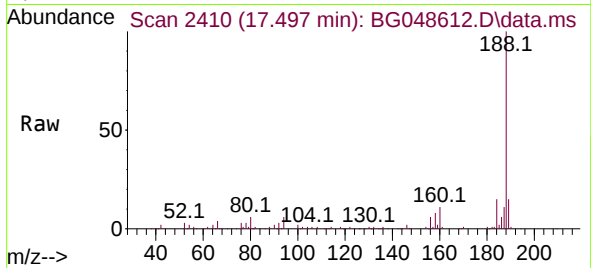
Manual Integrations  
APPROVED

mohammad  
4/8/2021 8:06:49 AM



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.497 min Scan# 2410  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

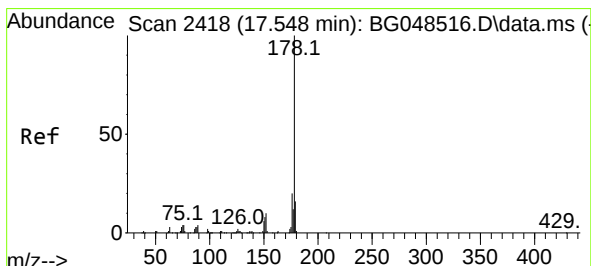
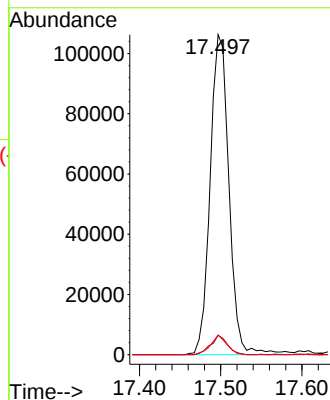
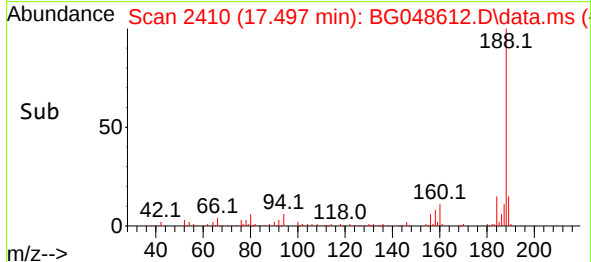
Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5



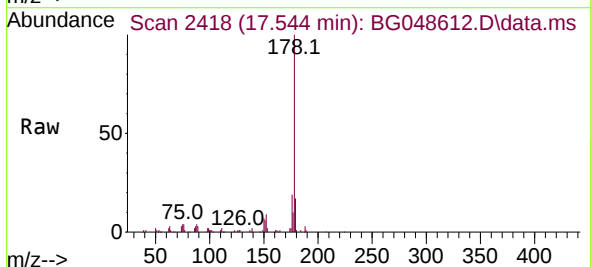
Tgt Ion:188 Resp: 170490  
Ion Ratio Lower Upper  
188 100  
94 6.0 3.0 4.6#  
80 6.2 4.5 6.7

Manual Integrations  
APPROVED

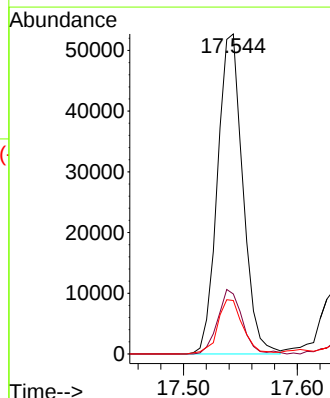
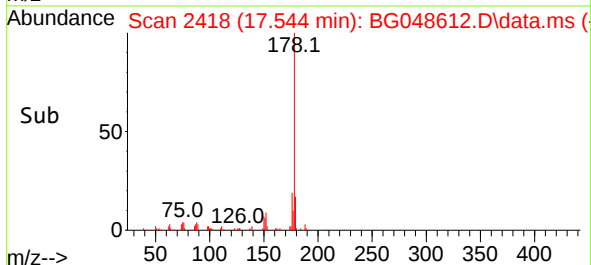
mohammad  
4/8/2021 8:06:49 AM

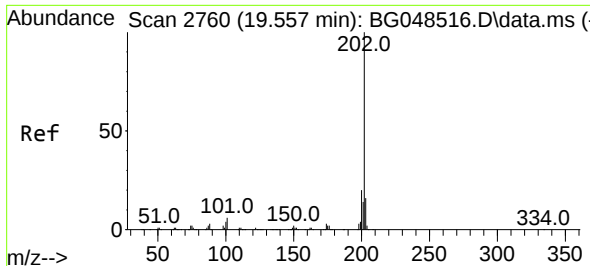


#71  
Phenanthrene  
Concen: 9.22 ng  
RT: 17.544 min Scan# 2418  
Delta R.T. -0.004 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

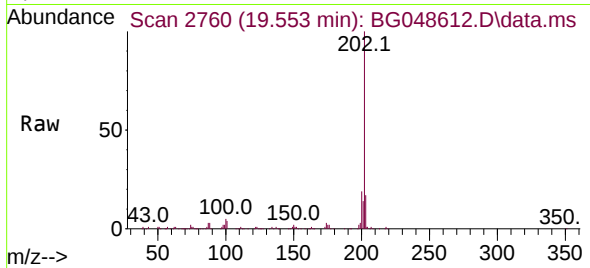


Tgt Ion:178 Resp: 81593  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.6 23.4  
179 16.7 12.9 19.3

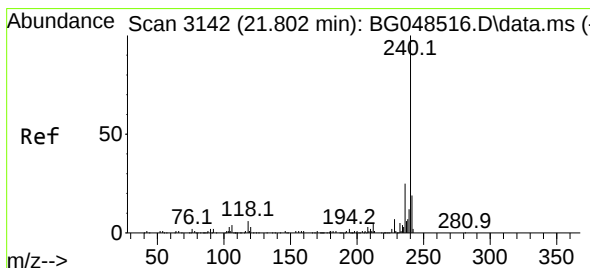
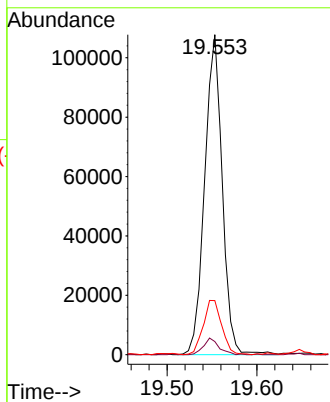
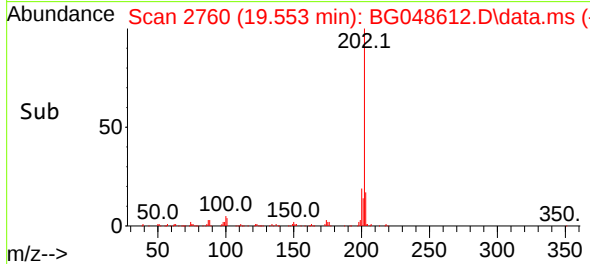




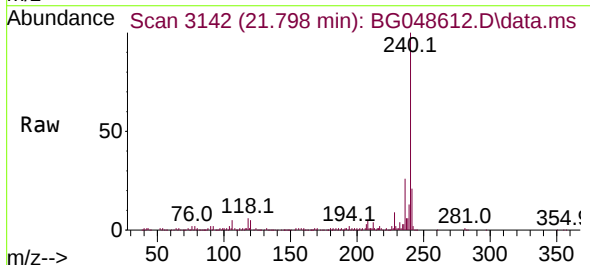
#75  
Fluoranthene  
Concen: 13.35 ng  
RT: 19.553 min Scan# 2760  
Delta R.T. -0.004 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



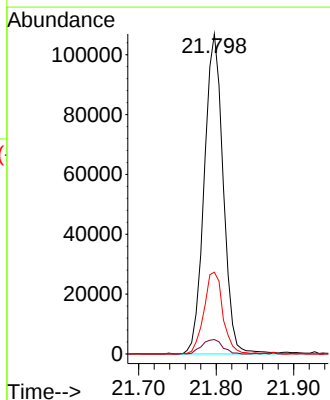
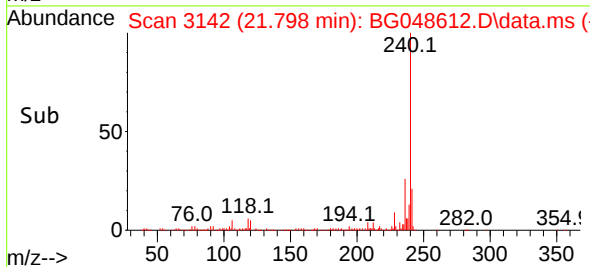
Tgt Ion:202 Resp: 146450  
Ion Ratio Lower Upper  
202 100  
101 4.1 0.0 25.8  
203 16.9 0.0 36.4



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.798 min Scan# 3142  
Delta R.T. -0.004 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



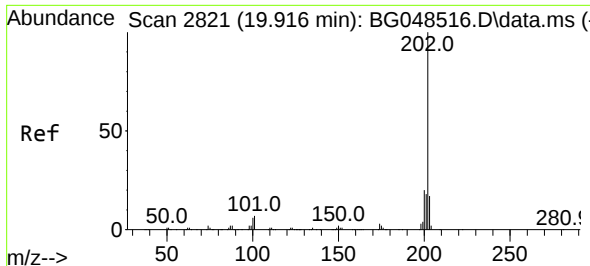
Tgt Ion:240 Resp: 181085  
Ion Ratio Lower Upper  
240 100  
120 4.5 2.6 3.8#  
236 25.6 19.8 29.6



Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

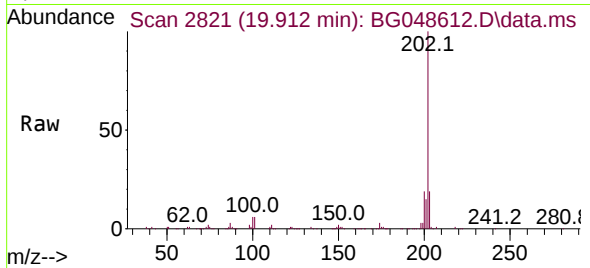
Manual Integrations  
APPROVED

mohammad  
4/8/2021 8:06:49 AM



#78  
Pyrene  
Concen: 9.51 ng  
RT: 19.912 min Scan# 2821  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

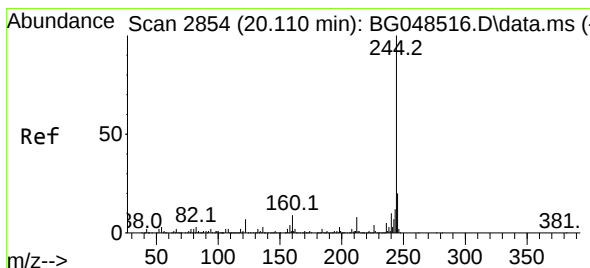
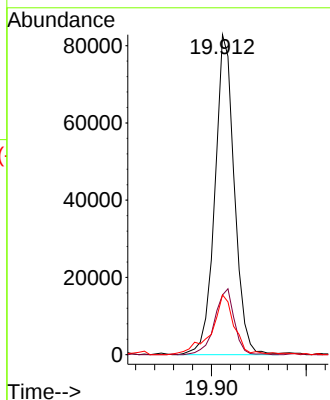
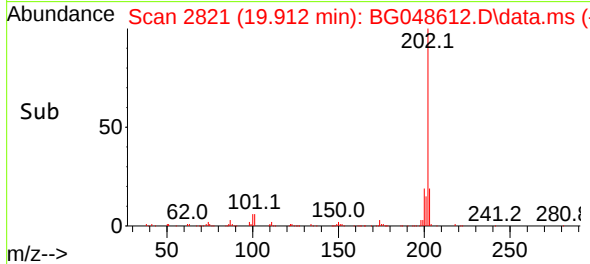
Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5



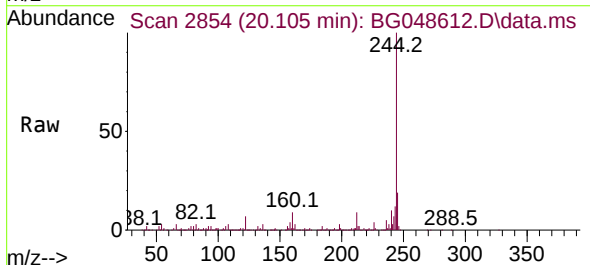
Tgt Ion:202 Resp: 118364  
Ion Ratio Lower Upper  
202 100  
200 18.7 16.1 24.1  
203 18.7 13.6 20.4

Manual Integrations  
APPROVED

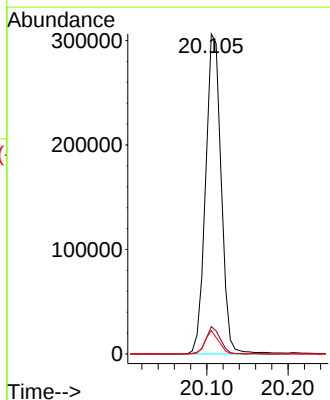
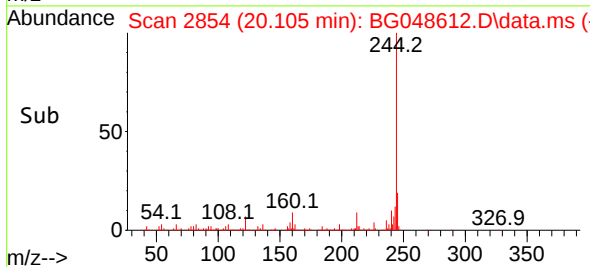
mohammad  
4/8/2021 8:06:49 AM

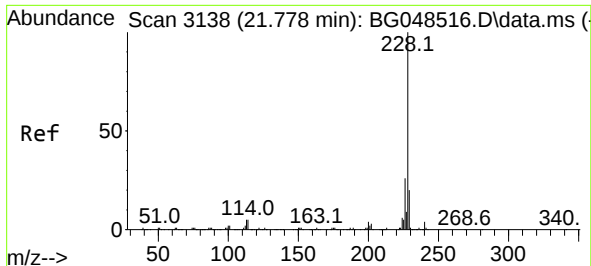


#79  
Terphenyl-d14  
Concen: 41.13 ng  
RT: 20.105 min Scan# 2854  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



Tgt Ion:244 Resp: 407275  
Ion Ratio Lower Upper  
244 100  
212 8.6 6.0 9.0  
122 7.3 5.8 8.6





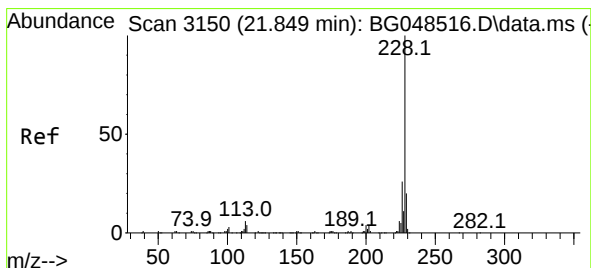
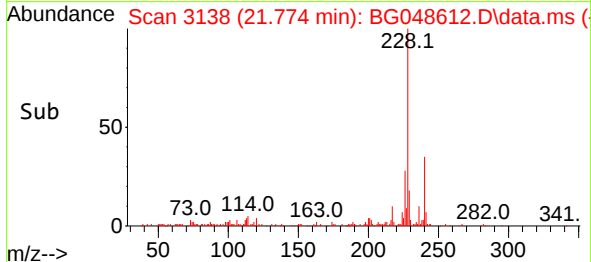
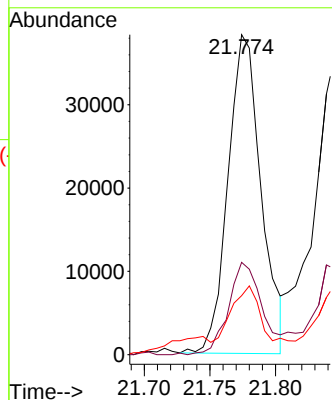
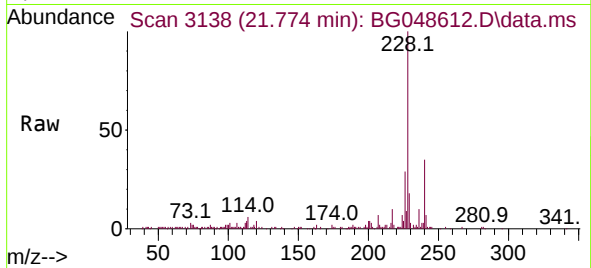
#81  
Benzo(a)anthracene  
Concen: 5.55 ng  
RT: 21.774 min Scan# 3138  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

Tgt Ion:228 Resp: 67155  
Ion Ratio Lower Upper  
228 100  
226 28.9 20.6 30.8  
229 18.5 15.8 23.8

Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

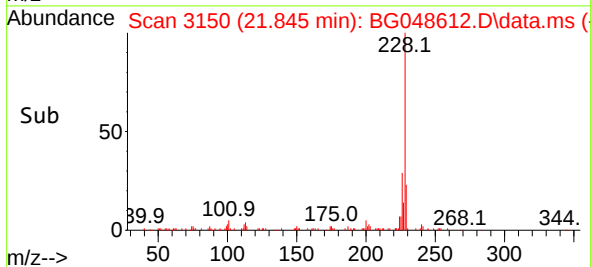
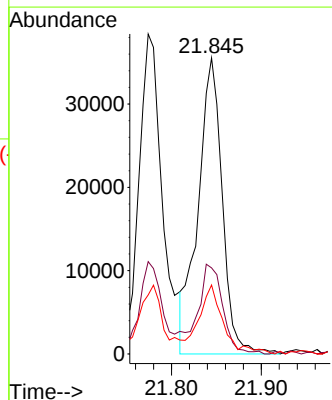
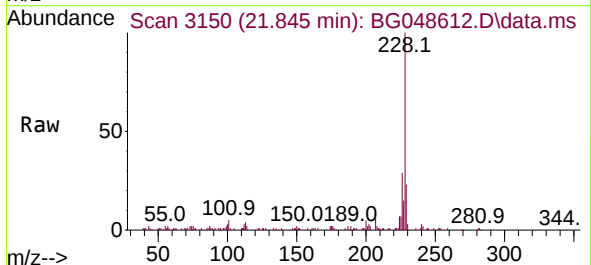
Manual Integrations  
APPROVED

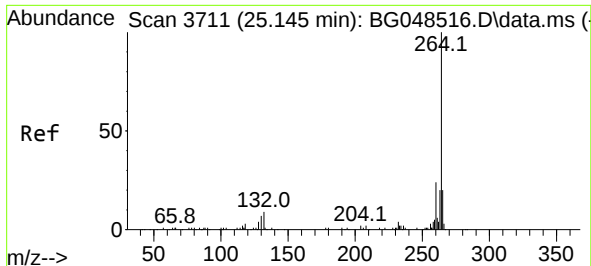
mohammad  
4/8/2021 8:06:49 AM



#83  
Chrysene  
Concen: 5.77 ng  
RT: 21.845 min Scan# 3150  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

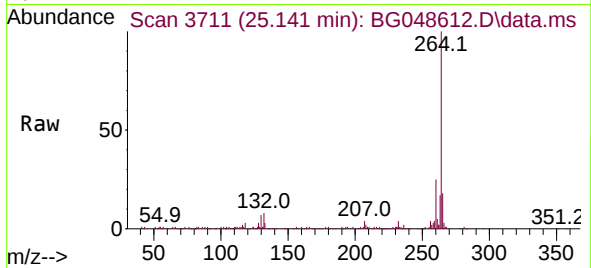
Tgt Ion:228 Resp: 66642  
Ion Ratio Lower Upper  
228 100  
226 29.1 20.6 31.0  
229 23.3 16.3 24.5





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.141 min Scan# 3711  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

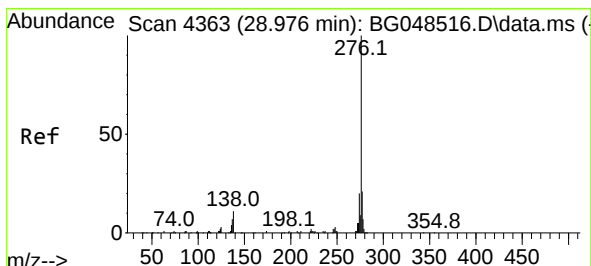
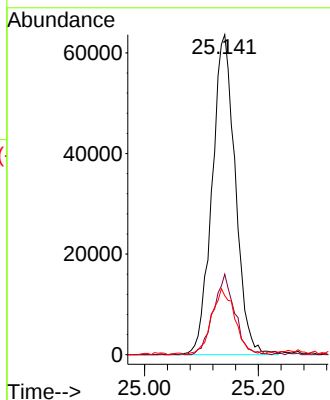
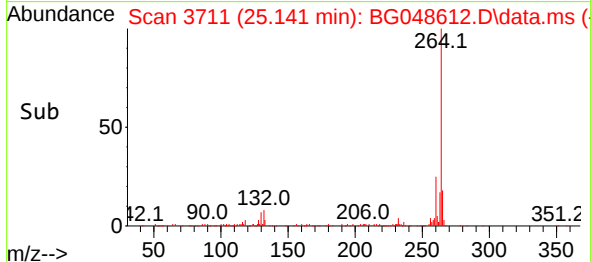
Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5



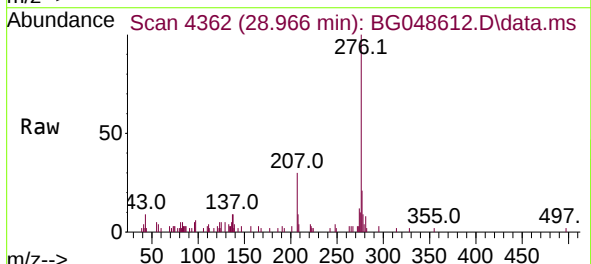
Tgt Ion:264 Resp: 180253  
Ion Ratio Lower Upper  
264 100  
260 25.1 19.1 28.7  
265 18.5 16.1 24.1

Manual Integrations  
APPROVED

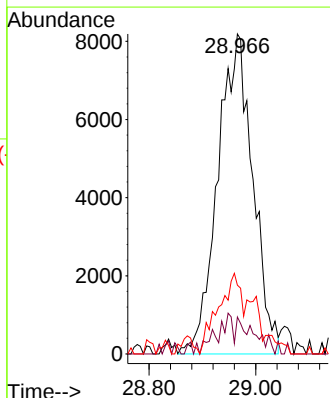
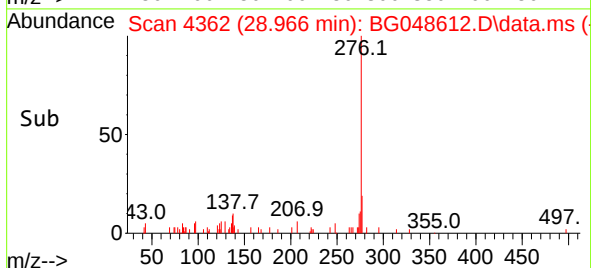
mohammad  
4/8/2021 8:06:49 AM

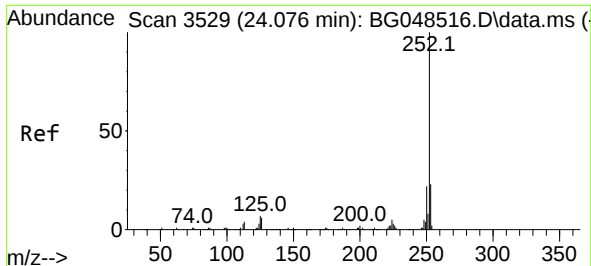


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.95 ng  
RT: 28.966 min Scan# 4362  
Delta R.T. -0.027 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



Tgt Ion:276 Resp: 37320  
Ion Ratio Lower Upper  
276 100  
138 1.6 7.8 11.8#  
277 16.5 0.0 0.0#





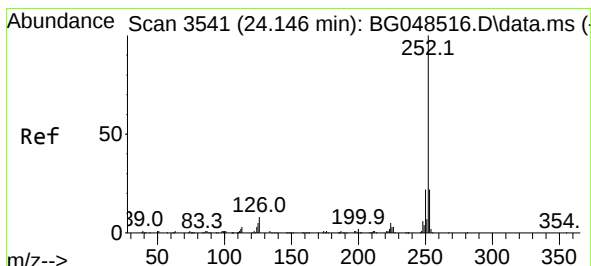
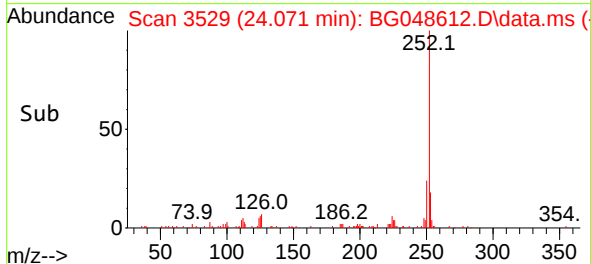
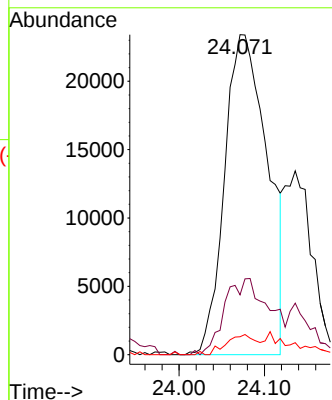
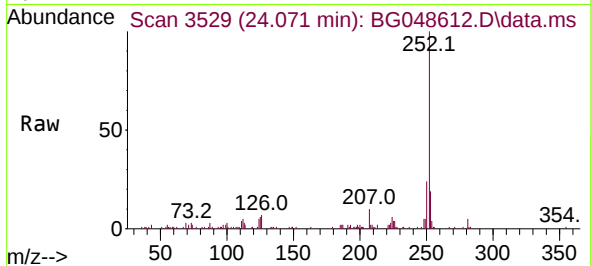
#88  
Benzo(b)fluoranthene  
Concen: 6.99 ng  
RT: 24.071 min Scan# 3529  
Delta R.T. -0.009 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

Tgt Ion:252 Resp: 81783  
Ion Ratio Lower Upper  
252 100  
253 18.7 18.2 27.4  
125 5.6 5.3 7.9

Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

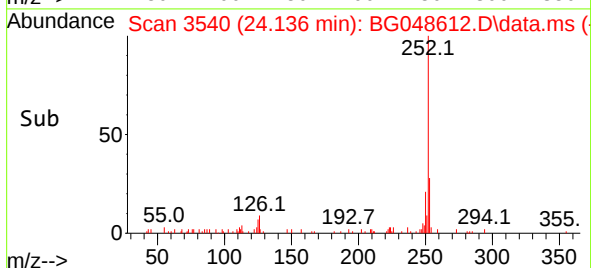
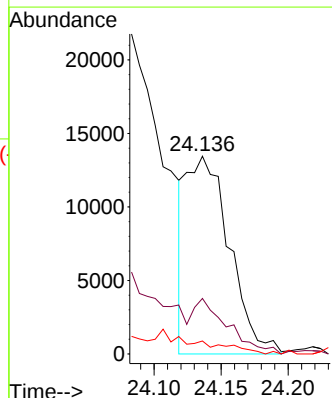
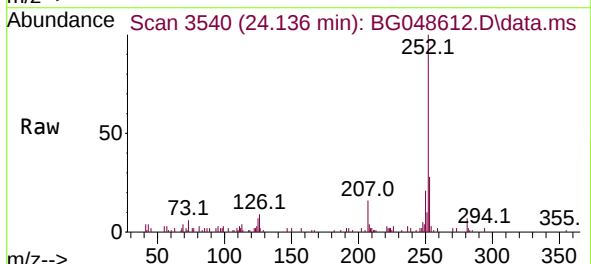
Manual Integrations  
APPROVED

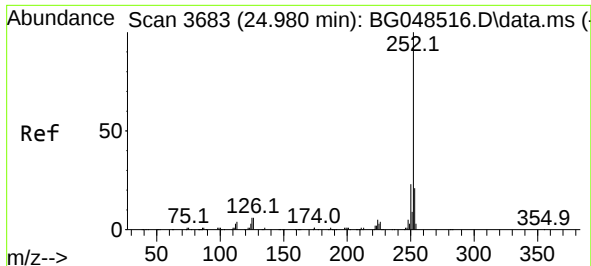
mohammad  
4/8/2021 8:06:49 AM



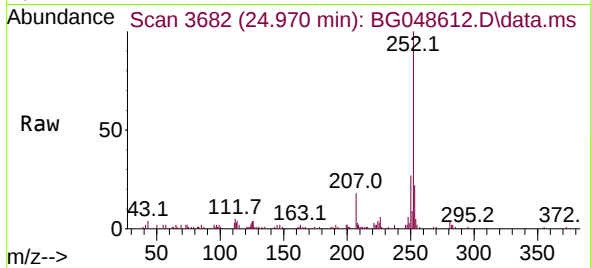
#89  
Benzo(k)fluoranthene  
Concen: 2.67 ng m  
RT: 24.136 min Scan# 3540  
Delta R.T. -0.015 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27

Tgt Ion:252 Resp: 30080  
Ion Ratio Lower Upper  
252 100  
253 28.1 17.9 26.9#  
125 6.6 3.9 5.9#

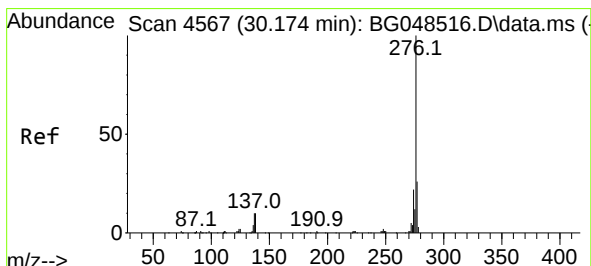
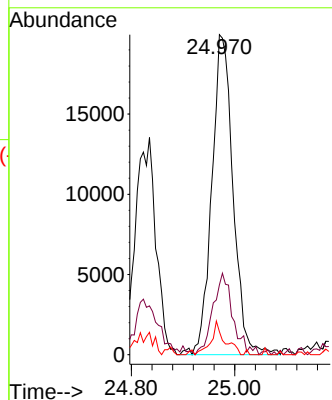
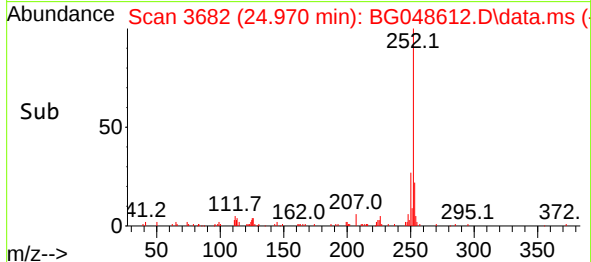




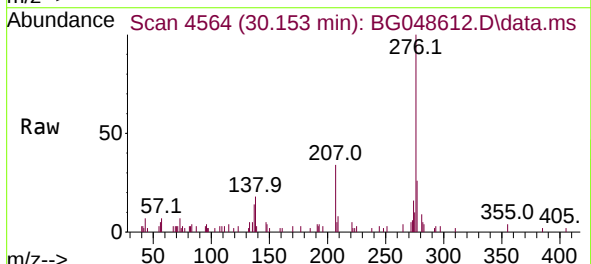
#90  
Benzo(a)pyrene  
Concen: 5.28 ng  
RT: 24.970 min Scan# 3682  
Delta R.T. -0.021 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



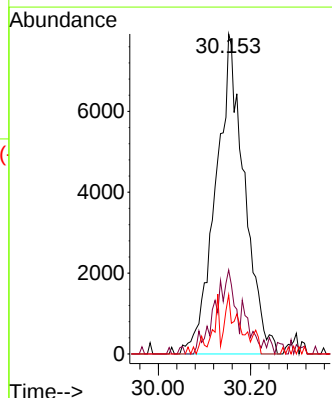
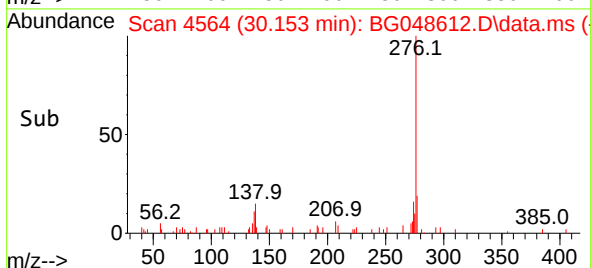
Tgt Ion:252 Resp: 57010  
Ion Ratio Lower Upper  
252 100  
253 21.8 17.1 25.7  
125 7.2 4.4 6.6#



#92  
Benzo(g,h,i)perylene  
Concen: 3.22 ng  
RT: 30.153 min Scan# 4564  
Delta R.T. -0.045 min  
Lab File: BG048612.D  
Acq: 6 Apr 2021 20:27



Tgt Ion:276 Resp: 34014  
Ion Ratio Lower Upper  
276 100  
277 26.2 20.4 30.6  
138 18.5 8.1 12.1#



Instrument :  
BNA\_G  
ClientSampleId :  
BENNETT\_BH\_05\_1-1.5

Manual Integrations  
APPROVED

mohammad  
4/8/2021 8:06:49 AM