

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG042221\  
 Data File : BG048848.D  
 Acq On : 22 Apr 2021 15:42  
 Operator : CG/JU  
 Sample : M2099-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 TP-5

Manual Integrations  
 APPROVED

mohammad  
 4/23/2021 4:00:56 PM

Quant Time: Apr 22 16:17:50 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG041421.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 20 17:33:30 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 8.062  | 152  | 20429    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.888 | 136  | 83390    | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.725 | 164  | 58493    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.480 | 188  | 131144   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.781 | 240  | 122142   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 25.112 | 264  | 122549   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.612  | 112  | 107841   | 88.29 | ng    | 0.00     |
| 7) Phenol-d6                | 7.222  | 99   | 143372   | 82.98 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 9.231  | 82   | 112534   | 60.42 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 16.217 | 330  | 55006    | 70.14 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 13.338 | 172  | 211430   | 52.20 | ng    | 0.00     |
| 79) Terphenyl-d14           | 20.095 | 244  | 309005   | 43.54 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 10.935 | 128  | 10424    | 2.44  | ng    | # 96     |
| 37) 2-Methylnaphthalene     | 12.545 | 142  | 8613     | 2.52  | ng    | # 90     |
| 71) Phenanthrene            | 17.521 | 178  | 39800    | 5.85  | ng    | 93       |
| 75) Fluoranthene            | 19.537 | 202  | 54051    | 6.28  | ng    | 92       |
| 78) Pyrene                  | 19.901 | 202  | 50853    | 6.02  | ng    | 96       |
| 81) Benzo(a)anthracene      | 21.758 | 228  | 26935    | 3.23  | ng    | 97       |
| 83) Chrysene                | 21.828 | 228  | 35119m   | 4.42  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 28.937 | 276  | 18568    | 2.06  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 24.055 | 252  | 40572    | 4.88  | ng    | # 95     |
| 90) Benzo(a)pyrene          | 24.960 | 252  | 23788    | 3.11  | ng    | # 94     |
| 92) Benzo(g,h,i)perylene    | 30.118 | 276  | 19023    | 2.50  | ng    | # 94     |
| -----                       |        |      |          |       |       |          |

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

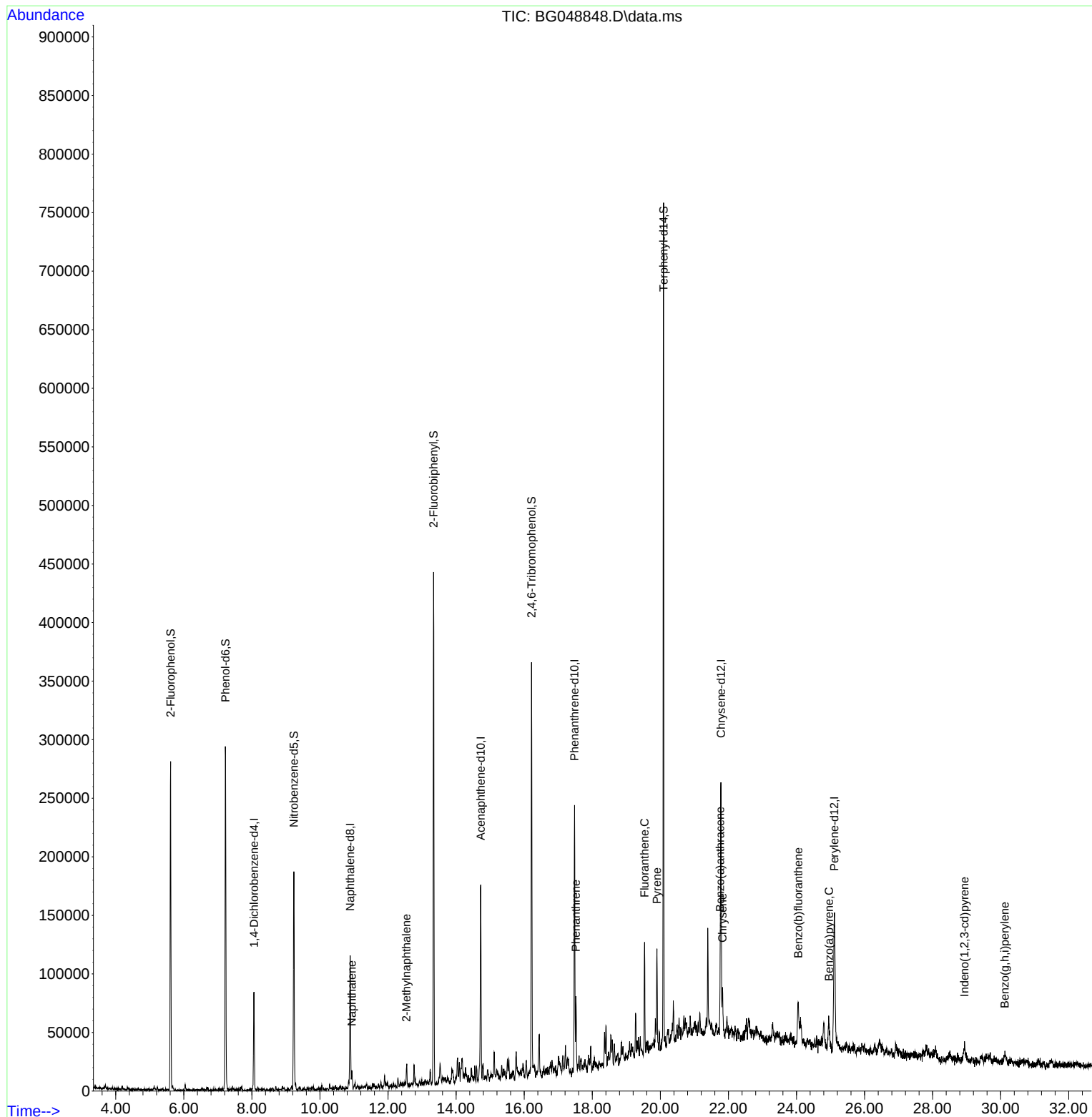
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG042221\  
Data File : BG048848.D  
Acq On : 22 Apr 2021 15:42  
Operator : CG/JU  
Sample : M2099-09  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

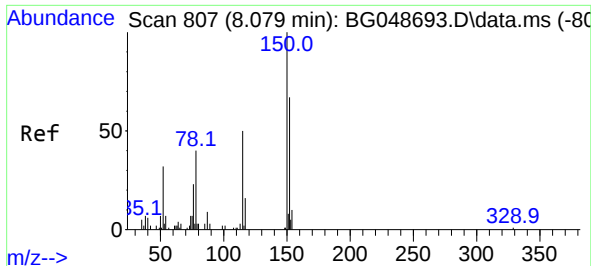
Instrument :  
BNA\_G  
ClientSampleId :  
TP-5

Manual Integrations  
APPROVED

mohammad  
4/23/2021 4:00:56 PM

Quant Time: Apr 22 16:17:50 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG041421.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 20 17:33:30 2021  
Response via : Initial Calibration





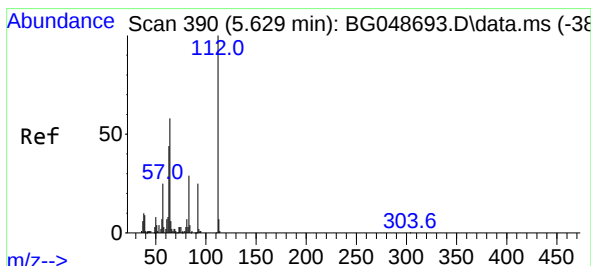
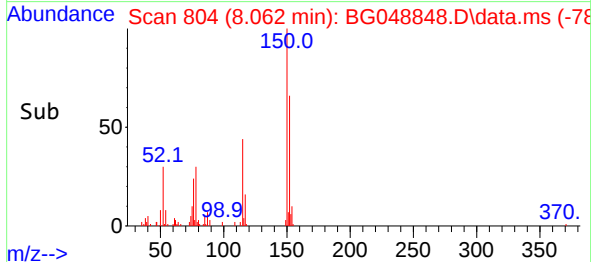
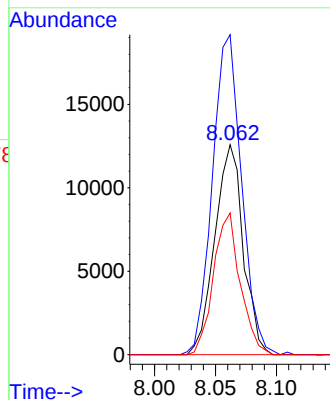
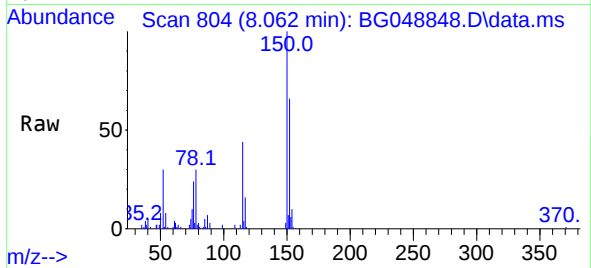
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 8.062 min Scan# 804  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

Tgt Ion:152 Resp: 20429  
Ion Ratio Lower Upper  
152 100  
150 152.5 119.4 179.0  
115 67.4 60.2 90.4

Instrument :  
BNA\_G  
ClientSampled :  
TP-5

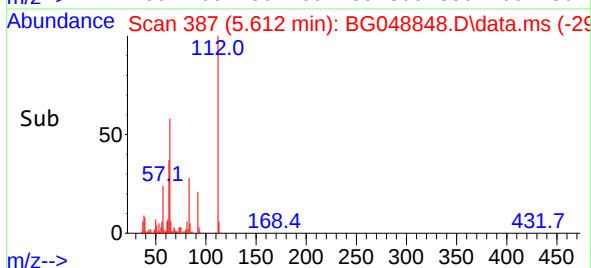
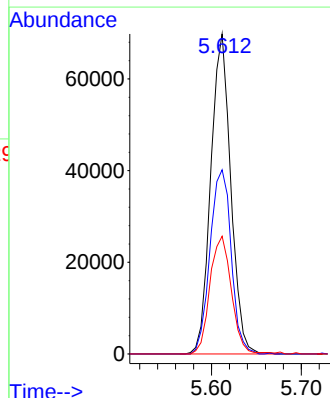
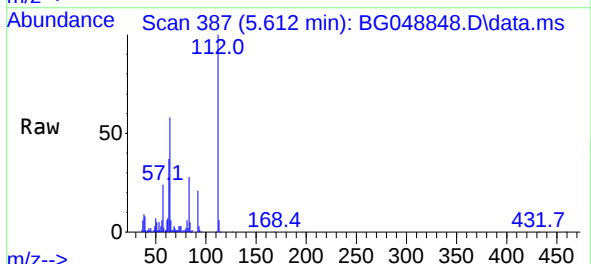
Manual Integrations  
APPROVED

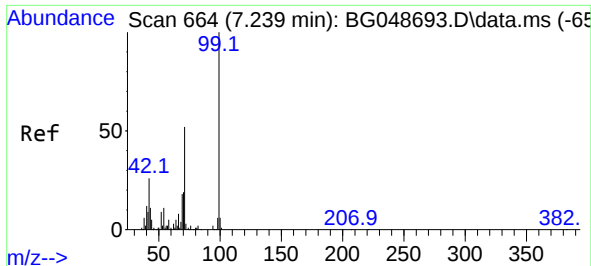
mohammad  
4/23/2021 4:00:56 PM



#5  
2-Fluorophenol  
Concen: 88.29 ng  
RT: 5.612 min Scan# 387  
Delta R.T. 0.007 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

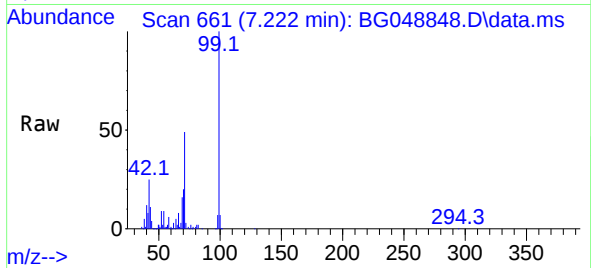
Tgt Ion:112 Resp: 107841  
Ion Ratio Lower Upper  
112 100  
64 57.5 46.7 70.1  
63 36.8 35.3 52.9





#7  
Phenol-d6  
Concen: 82.98 ng  
RT: 7.222 min Scan# 661  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

Instrument :  
BNA\_G  
ClientSampled :  
TP-5

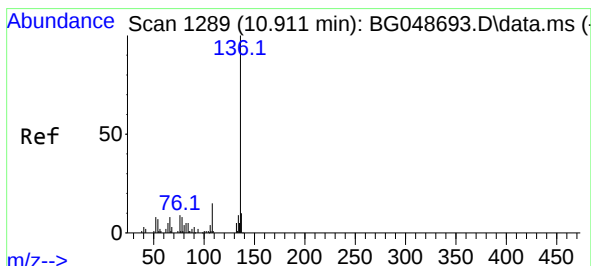
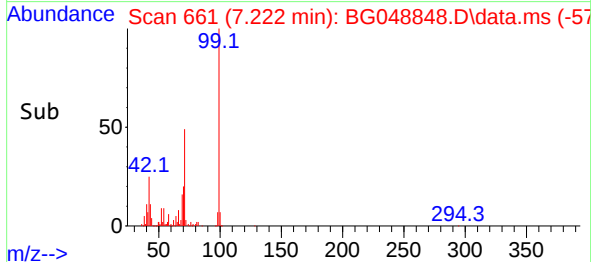
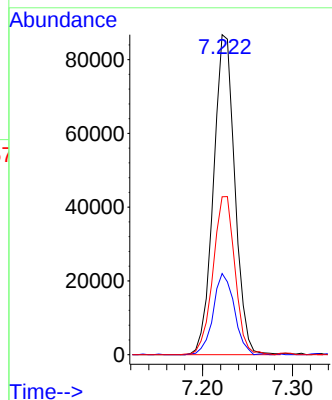


Tgt Ion: 99 Resp: 143372

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 25.3  | 20.5  | 30.7  |
| 71  | 49.4  | 41.5  | 62.3  |

Manual Integrations  
APPROVED

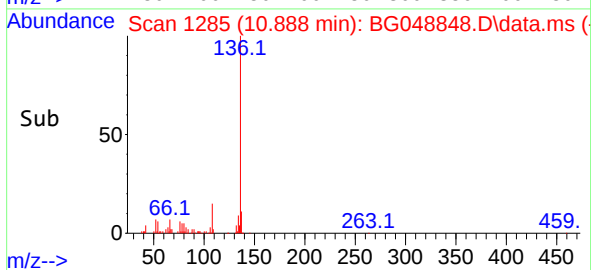
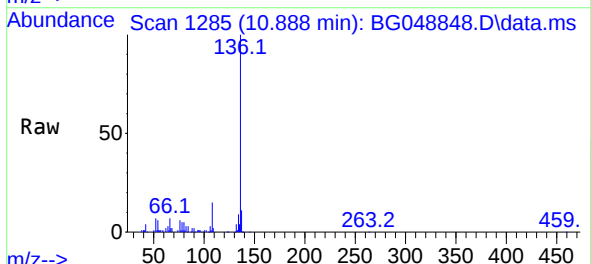
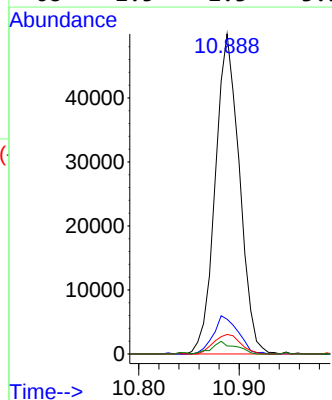
mohammad  
4/23/2021 4:00:56 PM

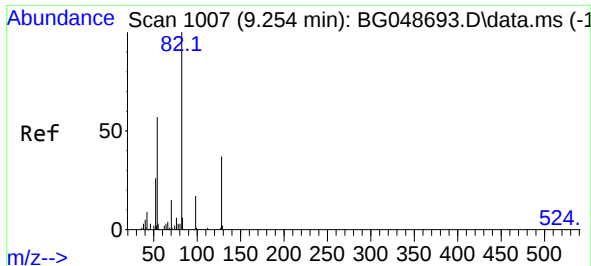


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.888 min Scan# 1285  
Delta R.T. -0.005 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

Tgt Ion: 136 Resp: 83390

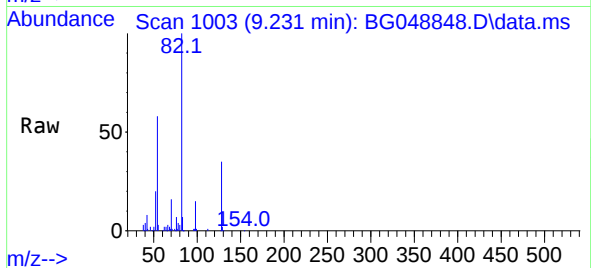
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.8  | 8.2   | 12.2  |
| 54  | 6.1   | 5.5   | 8.3   |
| 68  | 2.5   | 2.3   | 3.5   |





#23  
Nitrobenzene-d5  
Concen: 60.42 ng  
RT: 9.231 min Scan# 1003  
Delta R.T. -0.005 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

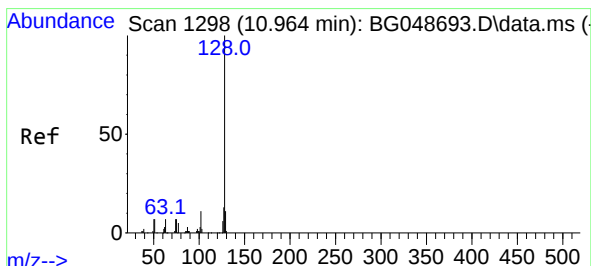
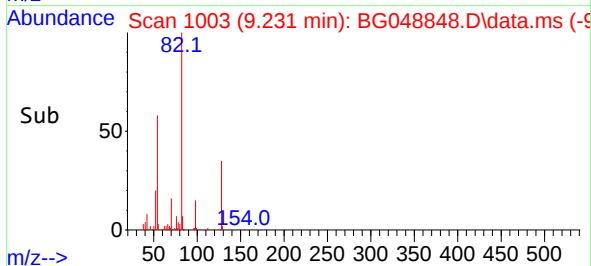
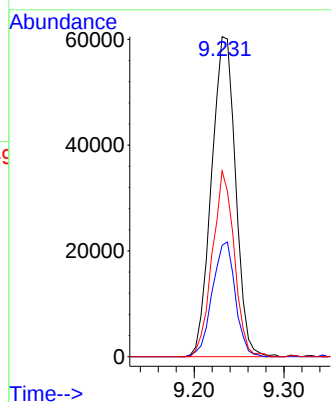
Instrument :  
BNA\_G  
ClientSampled :  
TP-5



Tgt Ion: 82 Resp: 112534  
Ion Ratio Lower Upper  
82 100  
128 34.8 29.8 44.6  
54 58.1 45.8 68.8

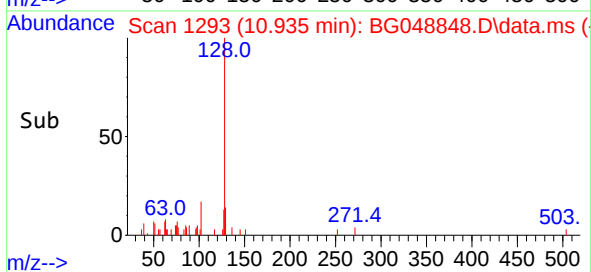
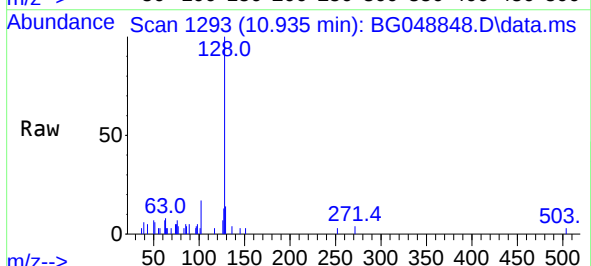
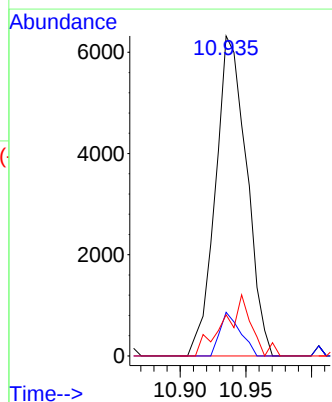
Manual Integrations  
APPROVED

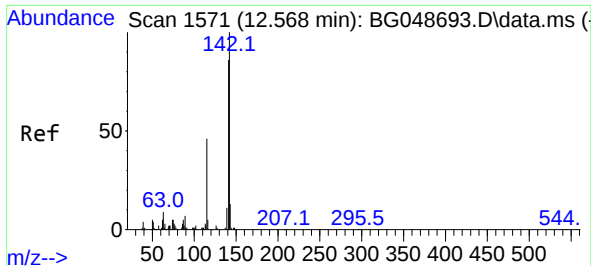
mohammad  
4/23/2021 4:00:56 PM



#31  
Naphthalene  
Concen: 2.44 ng  
RT: 10.935 min Scan# 1293  
Delta R.T. -0.005 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

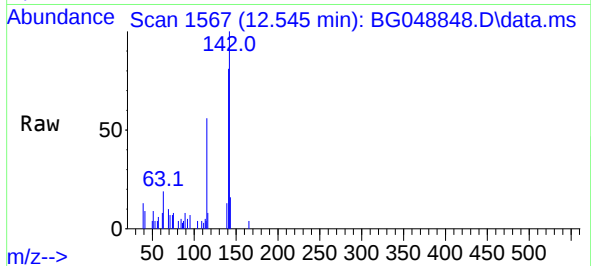
Tgt Ion: 128 Resp: 10424  
Ion Ratio Lower Upper  
128 100  
129 13.6 8.5 12.7#  
127 12.8 10.2 15.4





#37  
2-Methylnaphthalene  
Concen: 2.52 ng  
RT: 12.545 min Scan# 1567  
Delta R.T. -0.005 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

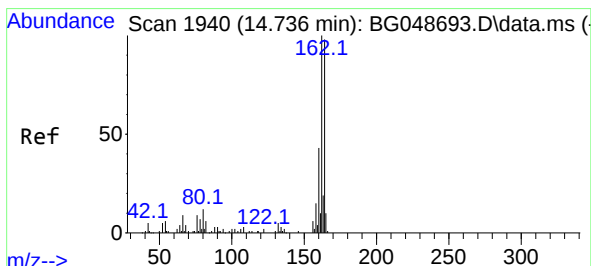
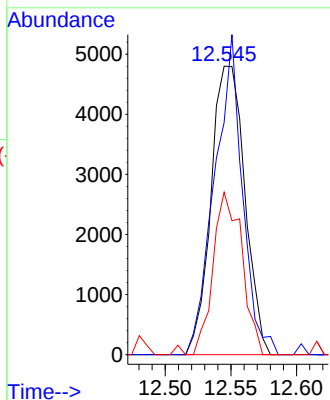
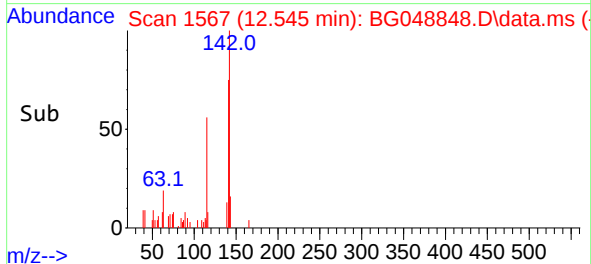
Instrument :  
BNA\_G  
ClientSampled :  
TP-5



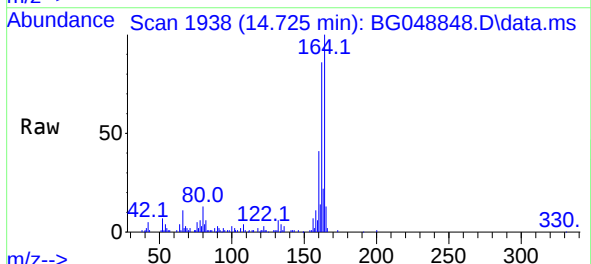
Tgt Ion:142 Resp: 8613  
Ion Ratio Lower Upper  
142 100  
141 80.5 68.8 103.2  
115 56.3 36.4 54.6#

Manual Integrations  
APPROVED

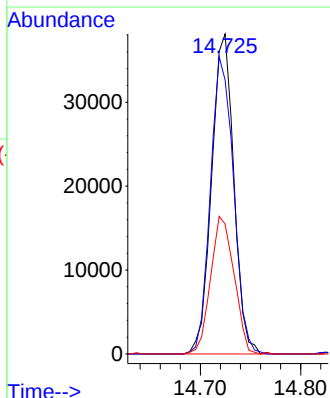
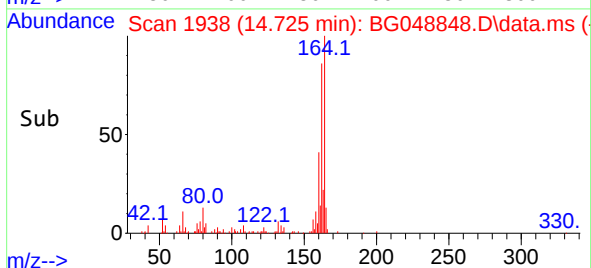
mohammad  
4/23/2021 4:00:56 PM

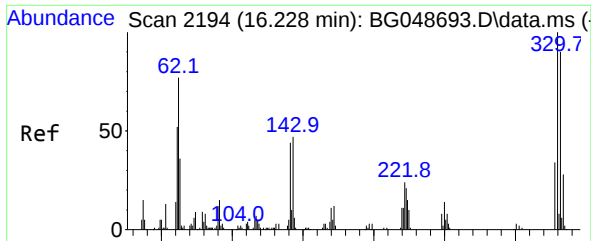


#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.725 min Scan# 1938  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

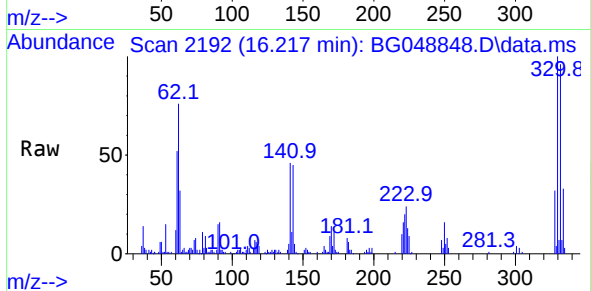


Tgt Ion:164 Resp: 58493  
Ion Ratio Lower Upper  
164 100  
162 85.6 81.4 122.0  
160 40.6 34.9 52.3

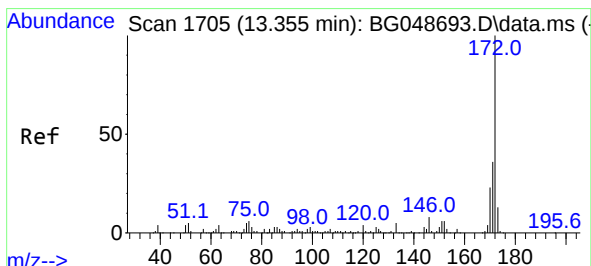
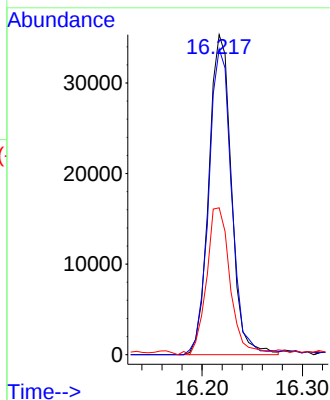
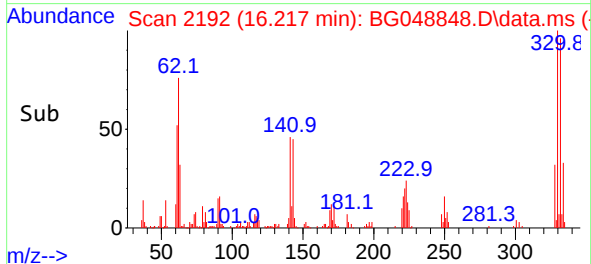




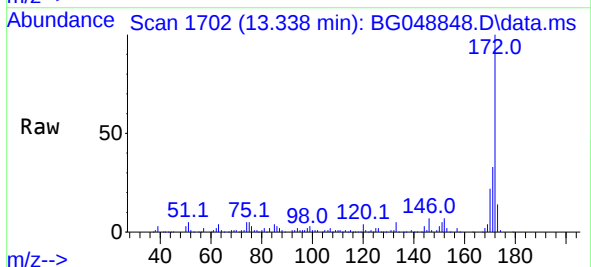
#42  
2,4,6-Tribromophenol  
Concen: 70.14 ng  
RT: 16.217 min Scan# 2192  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42



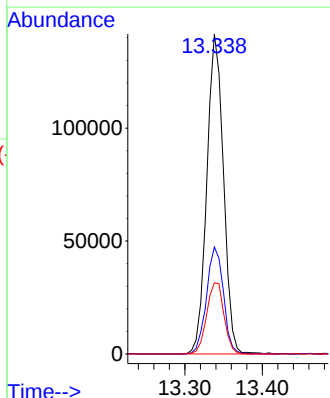
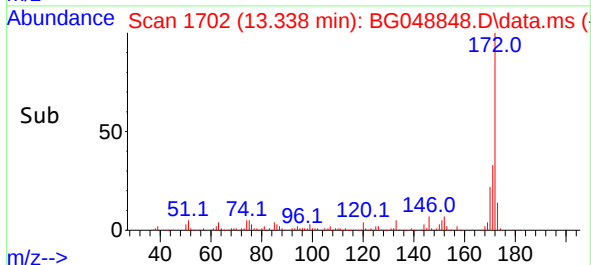
Tgt Ion:330 Resp: 55006  
Ion Ratio Lower Upper  
330 100  
332 98.5 77.3 115.9  
141 47.9 35.6 53.4



#45  
2-Fluorobiphenyl  
Concen: 52.20 ng  
RT: 13.338 min Scan# 1702  
Delta R.T. -0.005 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42



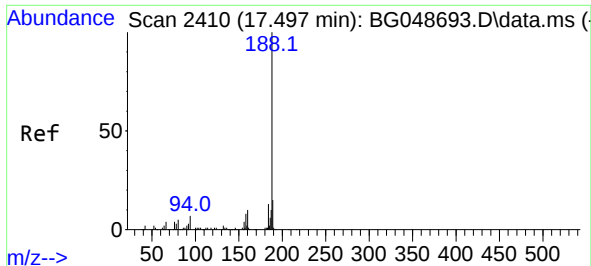
Tgt Ion:172 Resp: 211430  
Ion Ratio Lower Upper  
172 100  
171 33.5 28.6 43.0  
170 22.3 18.6 27.8



Instrument :  
BNA\_G  
ClientSampled :  
TP-5

Manual Integrations  
APPROVED

mohammad  
4/23/2021 4:00:56 PM



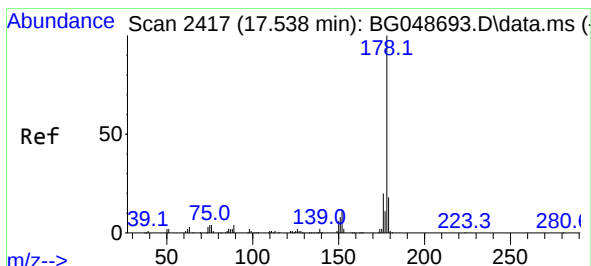
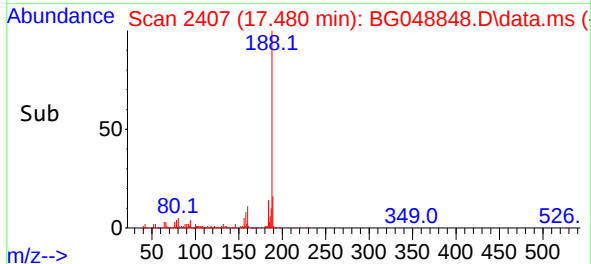
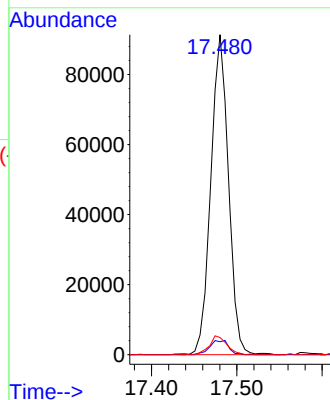
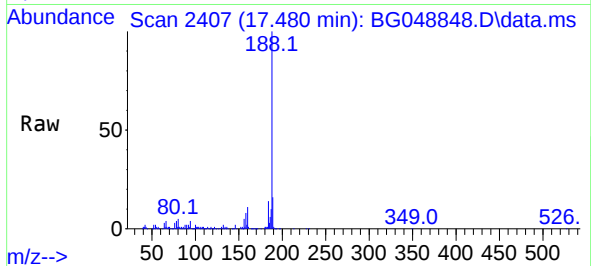
#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.480 min Scan# 2407  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

Tgt Ion:188 Resp: 131144  
Ion Ratio Lower Upper  
188 100  
94 4.1 5.4 8.0#  
80 5.4 3.7 5.5

Instrument :  
BNA\_G  
ClientSampled :  
TP-5

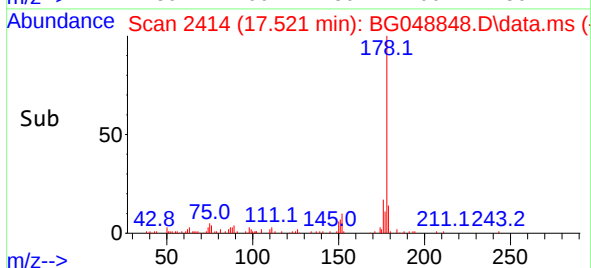
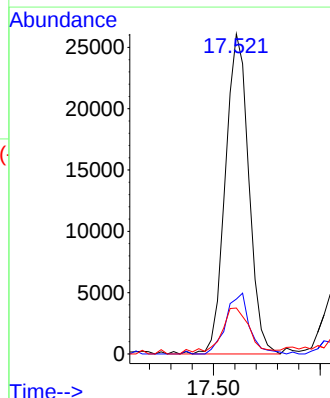
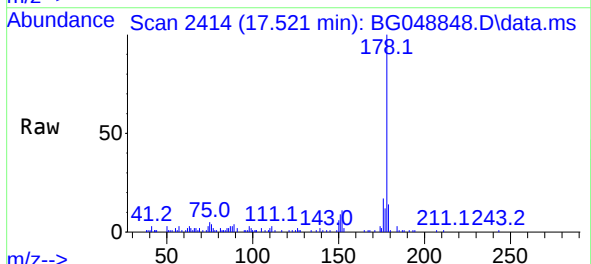
Manual Integrations  
APPROVED

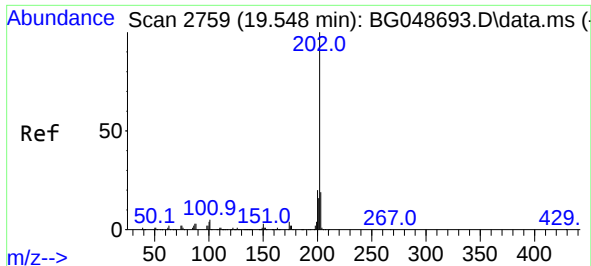
mohammad  
4/23/2021 4:00:56 PM



#71  
Phenanthrene  
Concen: 5.85 ng  
RT: 17.521 min Scan# 2414  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

Tgt Ion:178 Resp: 39800  
Ion Ratio Lower Upper  
178 100  
176 17.2 16.0 24.0  
179 14.4 14.2 21.4





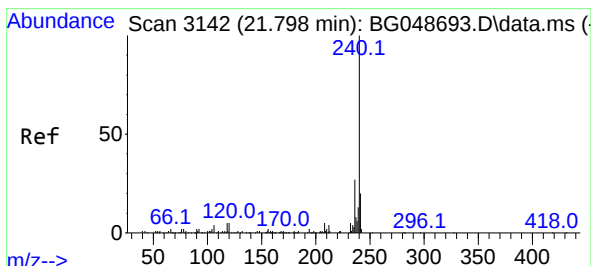
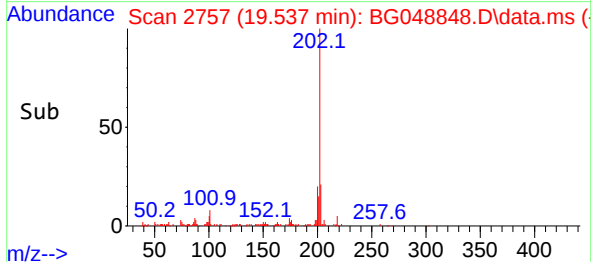
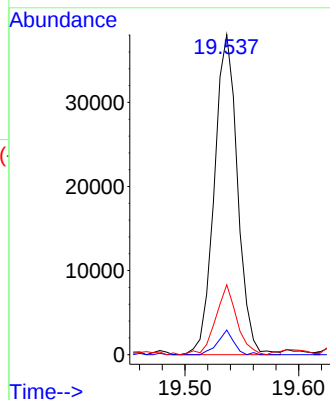
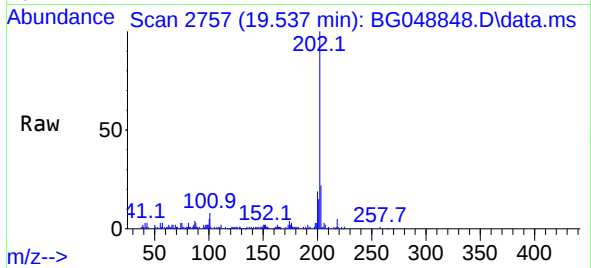
#75  
Fluoranthene  
Concen: 6.28 ng  
RT: 19.537 min Scan# 2757  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 54051 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 7.7   | 0.0   | 24.7  |
| 203       | 21.8  | 0.0   | 38.5  |

Instrument :  
BNA\_G  
ClientSampled :  
TP-5

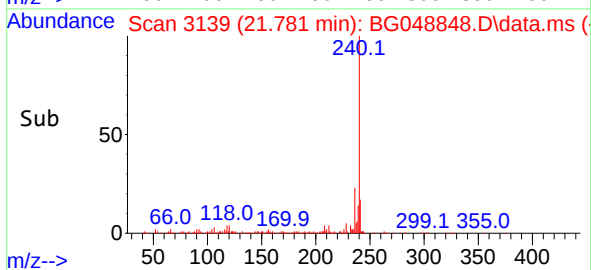
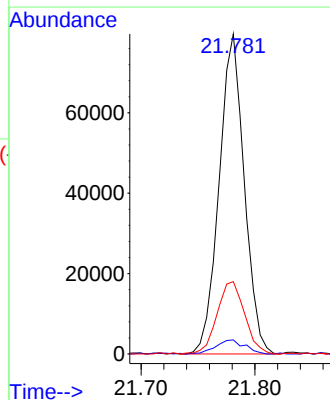
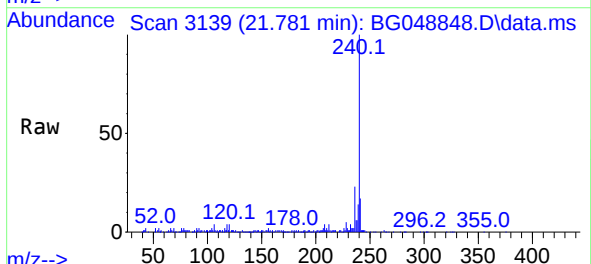
Manual Integrations  
APPROVED

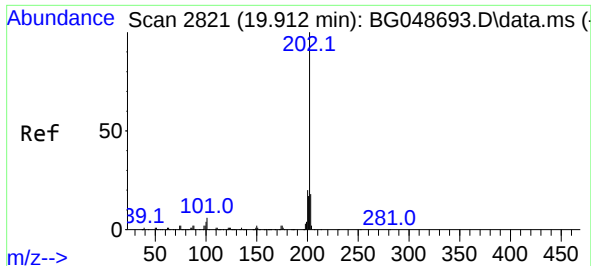
mohammad  
4/23/2021 4:00:56 PM



#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.781 min Scan# 3139  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 122142 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 4.4   | 4.2   | 6.2    |
| 236       | 22.6  | 21.8  | 32.6   |





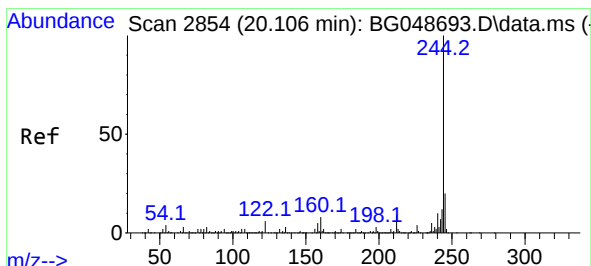
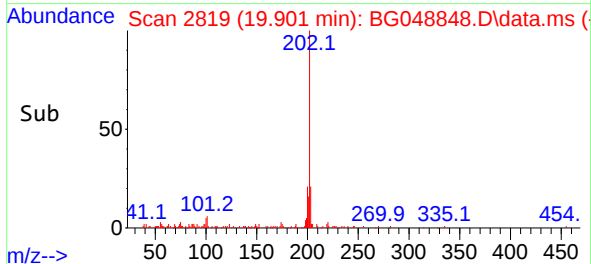
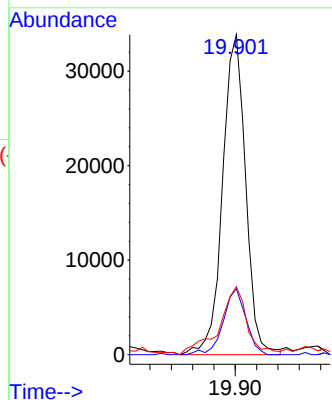
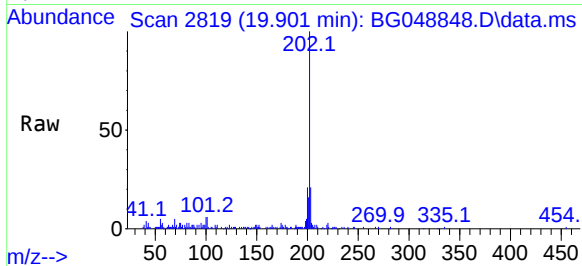
#78  
Pyrene  
Concen: 6.02 ng  
RT: 19.901 min Scan# 2819  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 50853 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 20.6  | 15.8  | 23.8  |
| 203       | 21.3  | 14.6  | 21.8  |

Instrument :  
BNA\_G  
ClientSampled :  
TP-5

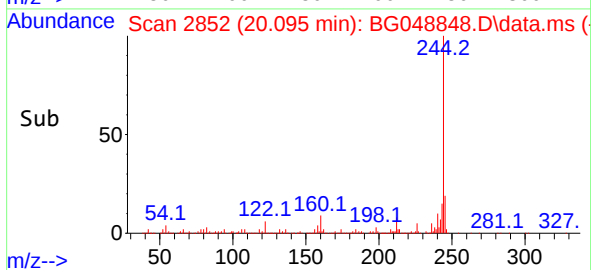
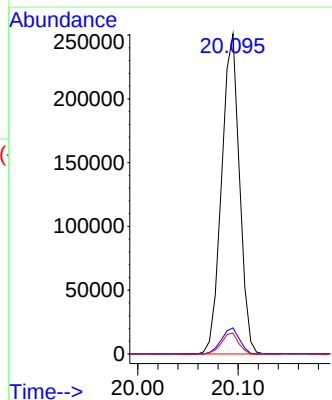
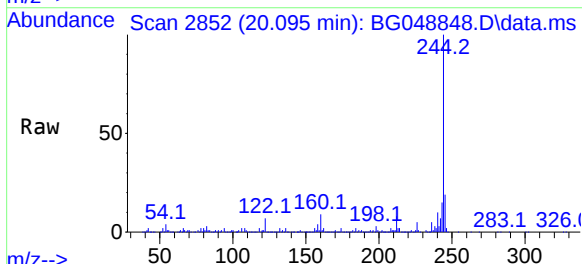
Manual Integrations  
APPROVED

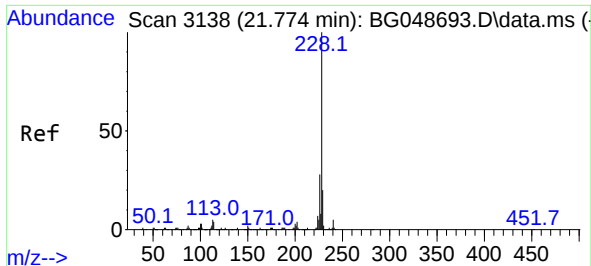
mohammad  
4/23/2021 4:00:56 PM



#79  
Terphenyl-d14  
Concen: 43.54 ng  
RT: 20.095 min Scan# 2852  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 309005 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 8.2   | 6.9   | 10.3   |
| 122       | 6.5   | 5.0   | 7.6    |





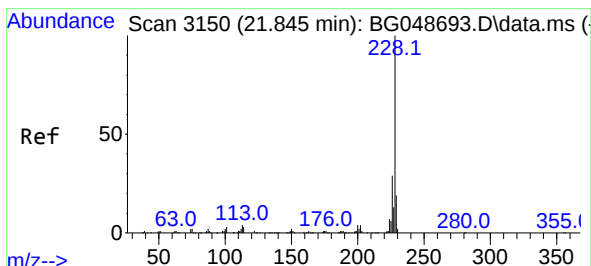
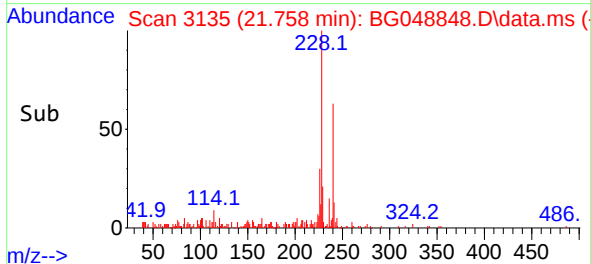
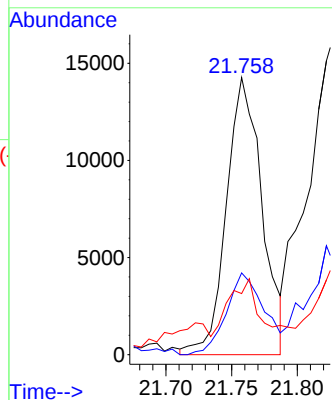
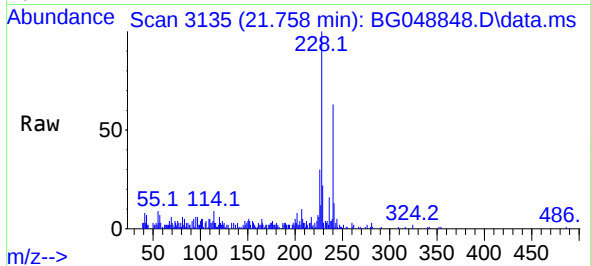
#81  
Benzo(a)anthracene  
Concen: 3.23 ng  
RT: 21.758 min Scan# 3135  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 26935 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 29.5  | 22.7  | 34.1  |
| 229       | 22.1  | 16.0  | 24.0  |

Instrument :  
BNA\_G  
ClientSampled :  
TP-5

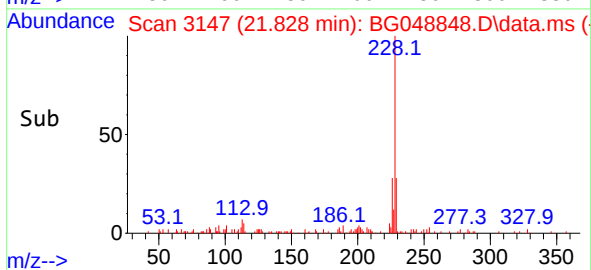
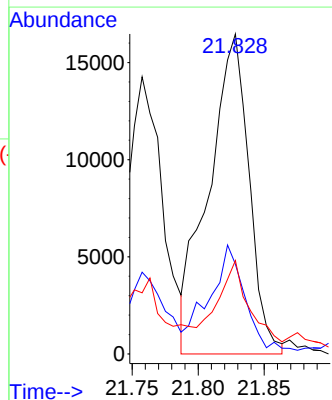
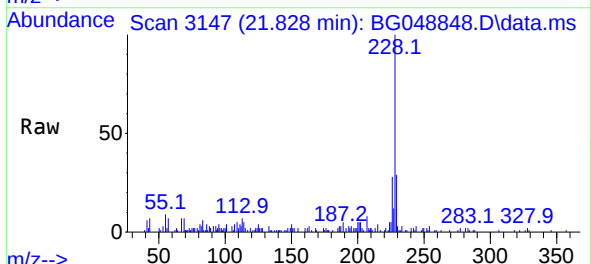
Manual Integrations  
APPROVED

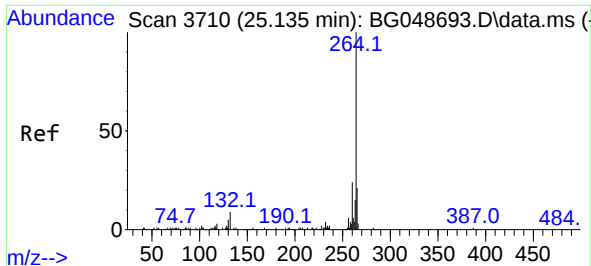
mohammad  
4/23/2021 4:00:56 PM



#83  
Chrysene  
Concen: 4.42 ng m  
RT: 21.828 min Scan# 3147  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

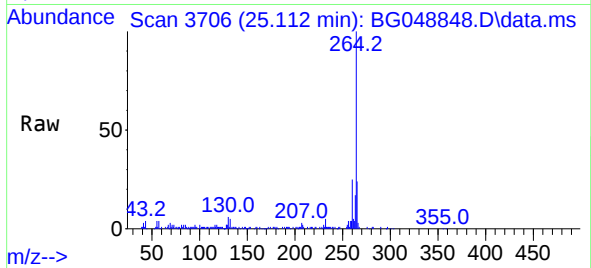
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 35119 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.1  | 23.1  | 34.7  |
| 229       | 29.2  | 15.3  | 22.9# |





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 25.112 min Scan# 3706  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

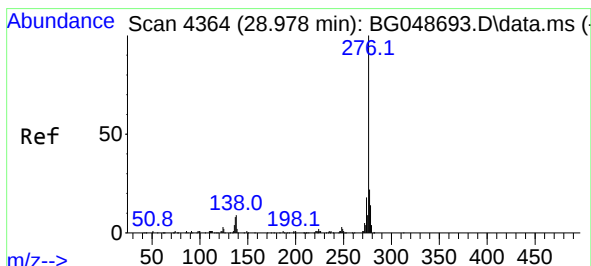
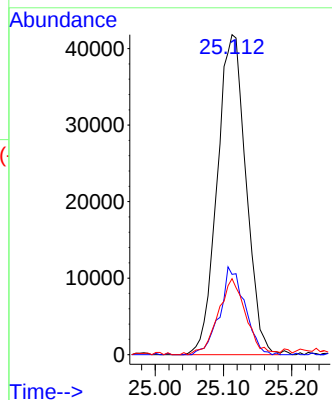
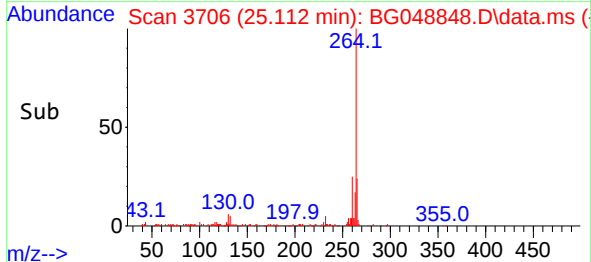
Instrument :  
BNA\_G  
ClientSampled :  
TP-5



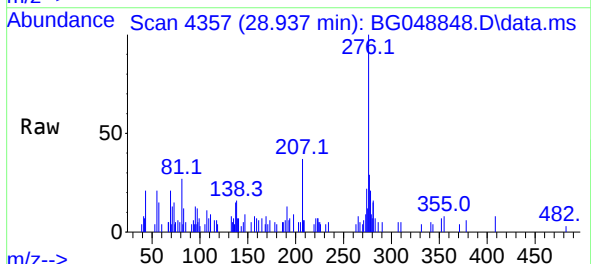
Tgt Ion:264 Resp: 122549  
Ion Ratio Lower Upper  
264 100  
260 25.1 19.4 29.2  
265 23.7 16.9 25.3

Manual Integrations  
APPROVED

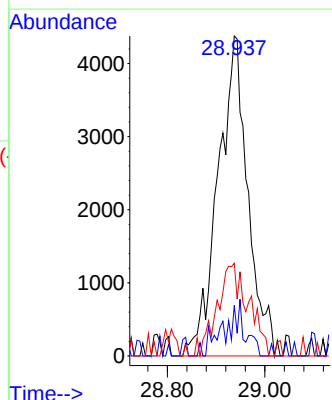
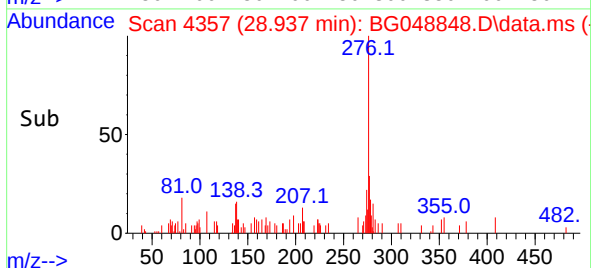
mohammad  
4/23/2021 4:00:56 PM

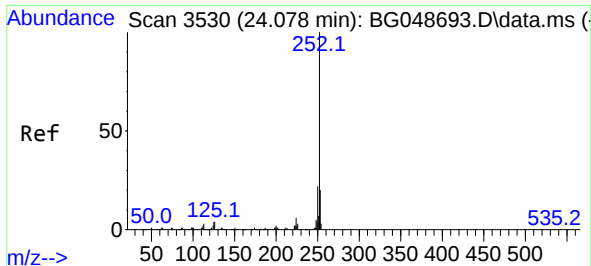


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 2.06 ng  
RT: 28.937 min Scan# 4357  
Delta R.T. 0.001 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42



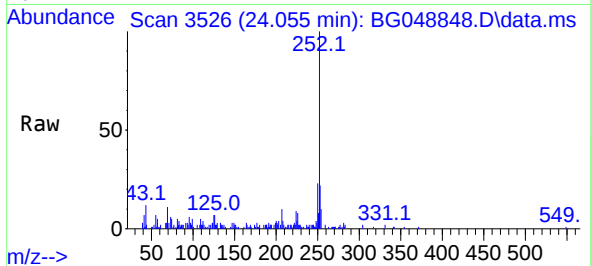
Tgt Ion:276 Resp: 18568  
Ion Ratio Lower Upper  
276 100  
138 5.5 5.1 7.7  
277 23.7 19.8 29.6





#88  
Benzo(b)fluoranthene  
Concen: 4.88 ng  
RT: 24.055 min Scan# 3526  
Delta R.T. 0.007 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

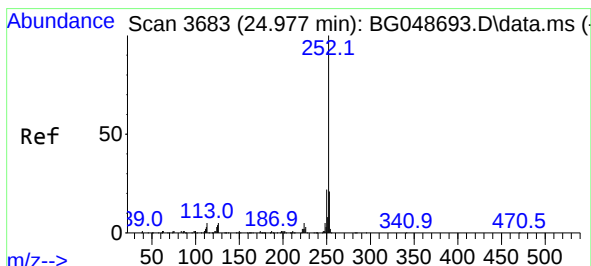
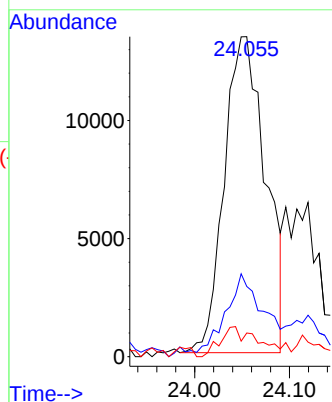
Instrument :  
BNA\_G  
ClientSampled :  
TP-5



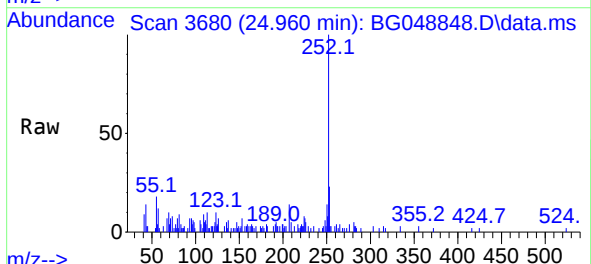
Tgt Ion:252 Resp: 40572  
Ion Ratio Lower Upper  
252 100  
253 21.9 16.2 24.4  
125 7.4 3.0 4.4#

Manual Integrations  
APPROVED

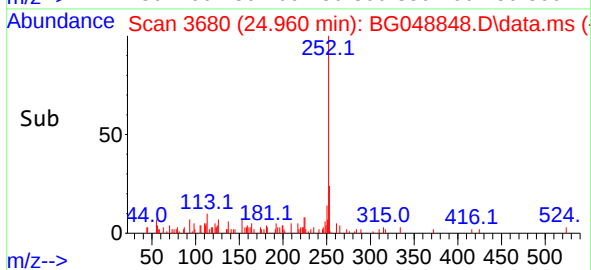
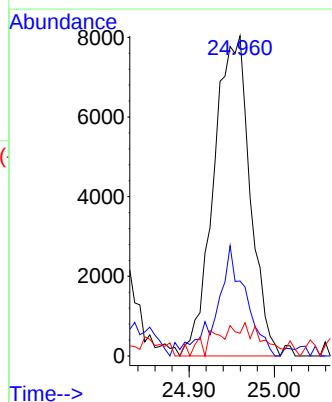
mohammad  
4/23/2021 4:00:56 PM

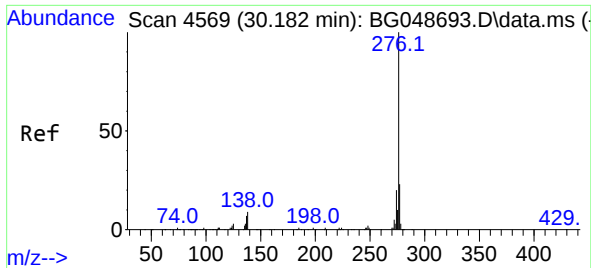


#90  
Benzo(a)pyrene  
Concen: 3.11 ng  
RT: 24.960 min Scan# 3680  
Delta R.T. 0.007 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42



Tgt Ion:252 Resp: 23788  
Ion Ratio Lower Upper  
252 100  
253 23.4 16.6 25.0  
125 7.1 3.5 5.3#





#92  
Benzo(g,h,i)perylene  
Concen: 2.50 ng  
RT: 30.118 min Scan# 4558  
Delta R.T. -0.011 min  
Lab File: BG048848.D  
Acq: 22 Apr 2021 15:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 22.2  | 18.4  | 27.6  |
| 138     | 15.1  | 7.0   | 10.6  |

Instrument :  
BNA\_G  
ClientSampleId :  
TP-5

Manual Integrations  
APPROVED

mohammad  
4/23/2021 4:00:56 PM

