

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP051821\  
 Data File : BP005602.D  
 Acq On : 18 May 2021 16:10  
 Operator : CG/JU  
 Sample : M2366-01  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 JG-SPOILS-5-11-21-A

Manual Integrations  
 APPROVED

mohammad  
 5/19/2021 11:39:46 AM

Quant Time: May 19 02:15:57 2021  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP050521.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon May 17 15:35:47 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.664  | 152  | 9472     | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.452 | 136  | 31179    | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 14.316 | 164  | 26175    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 17.069 | 188  | 69491    | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12            | 21.175 | 240  | 105370   | 20.00 | ng    | # 0.00   |
| 86) Perylene-d12            | 23.469 | 264  | 128226   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.293  | 112  | 1366m    | 2.77  | ng    | 0.04     |
| 7) Phenol-d6                | 6.869  | 99   | 13514    | 21.96 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.828  | 82   | 53745    | 67.85 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 15.834 | 330  | 438      | 0.59  | ng    | 0.02     |
| 45) 2-Fluorobiphenyl        | 12.934 | 172  | 131314   | 56.59 | ng    | 0.00     |
| 79) Terphenyl-d14           | 19.645 | 244  | 337600   | 54.41 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 50) Dimethylphthalate       | 13.787 | 163  | 14073    | 6.23  | ng    | # 97     |
| 71) Phenanthrene            | 17.116 | 178  | 27076    | 6.86  | ng    | 96       |
| 75) Fluoranthene            | 19.092 | 202  | 43914    | 8.09  | ng    | 96       |
| 78) Pyrene                  | 19.445 | 202  | 43644    | 7.32  | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.157 | 228  | 25153    | 3.68  | ng    | 97       |
| 83) Chrysene                | 21.210 | 228  | 24240m   | 3.66  | ng    |          |
| 88) Benzo(b)fluoranthene    | 22.775 | 252  | 32686m   | 3.83  | ng    |          |
| 90) Benzo(a)pyrene          | 23.369 | 252  | 24111    | 3.08  | ng    | # 95     |
| -----                       |        |      |          |       |       |          |

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

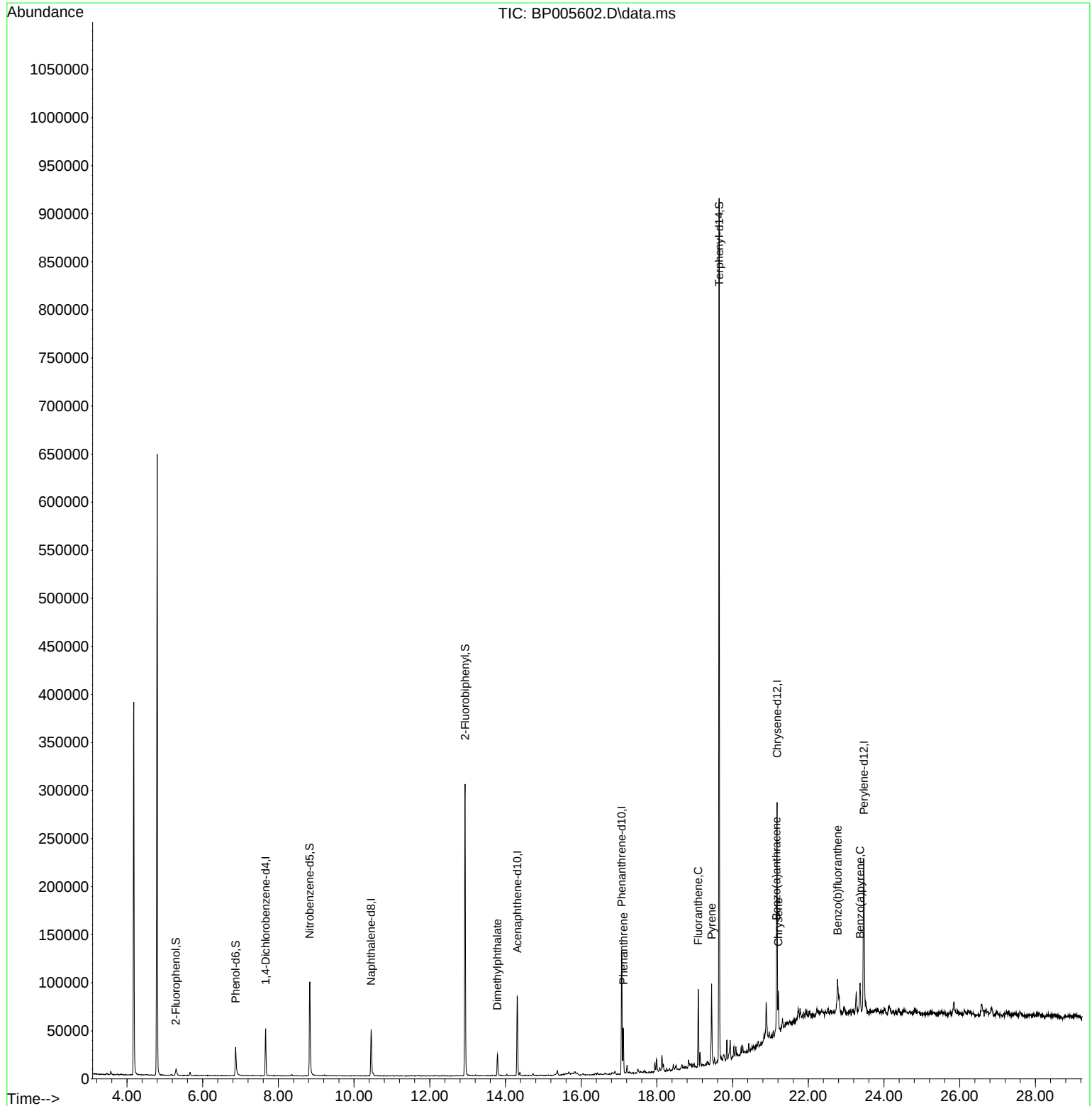
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP051821\  
Data File : BP005602.D  
Acq On : 18 May 2021 16:10  
Operator : CG/JU  
Sample : M2366-01  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

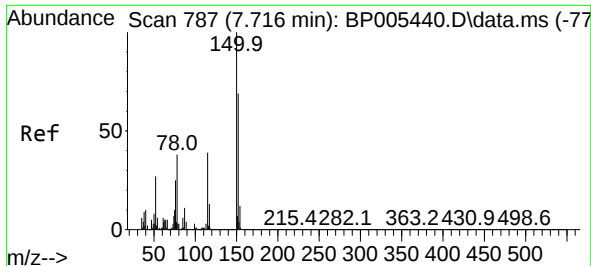
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A

Manual Integrations  
APPROVED

mohammad  
5/19/2021 11:39:46 AM

Quant Time: May 19 02:15:57 2021  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP050521.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon May 17 15:35:47 2021  
Response via : Initial Calibration





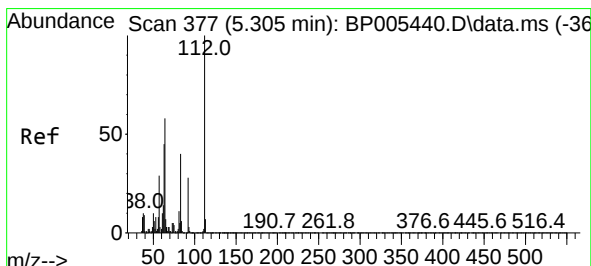
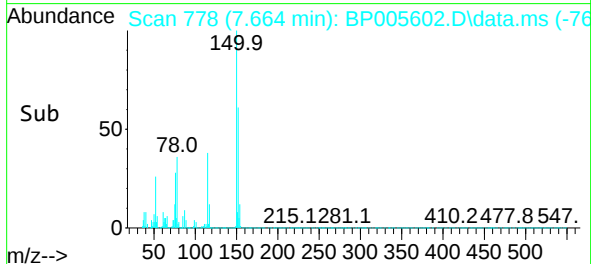
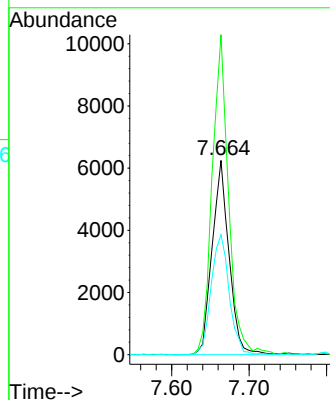
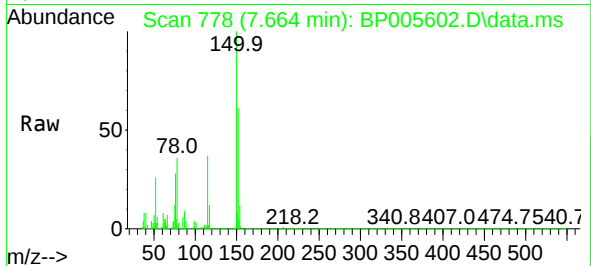
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.664 min Scan# 778  
Delta R.T. 0.001 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 164.7 | 119.8 | 179.8 |
| 115     | 61.7  | 49.0  | 73.4  |

Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A

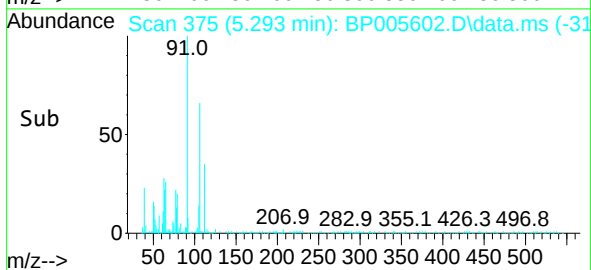
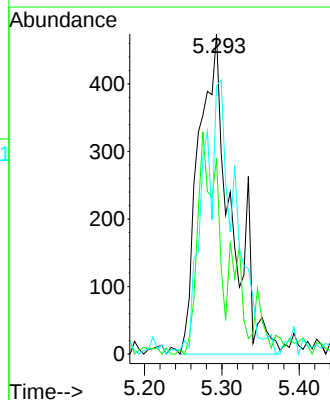
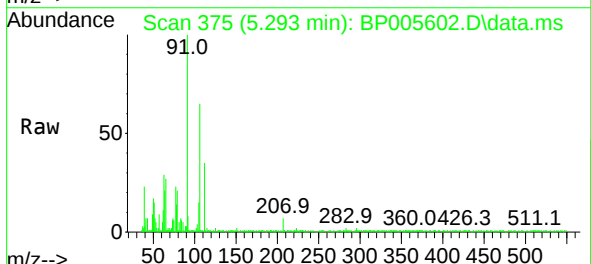
Manual Integrations  
APPROVED

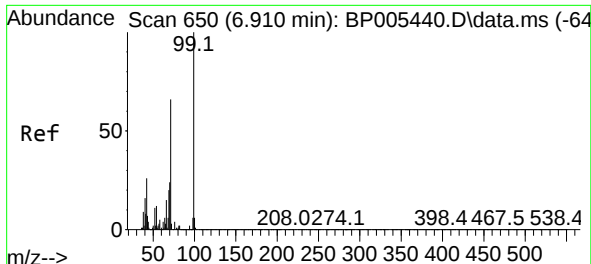
mohammad  
5/19/2021 11:39:46 AM



#5  
2-Fluorophenol  
Concen: 2.77 ng m  
RT: 5.293 min Scan# 375  
Delta R.T. 0.035 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

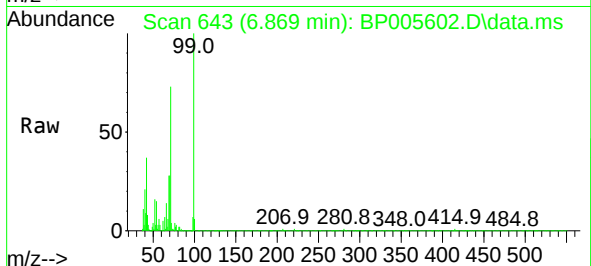
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 61.2  | 33.6  | 50.4# |
| 63      | 83.8  | 18.6  | 27.8# |





#7  
Phenol-d6  
Concen: 21.96 ng  
RT: 6.869 min Scan# 643  
Delta R.T. 0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

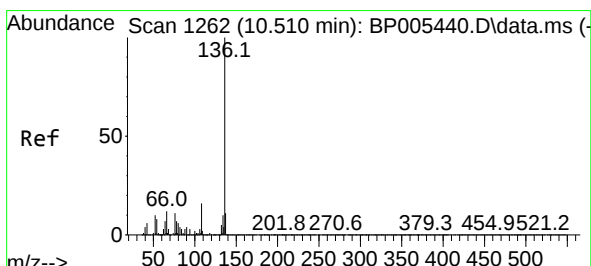
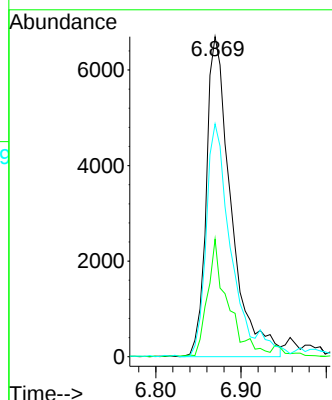
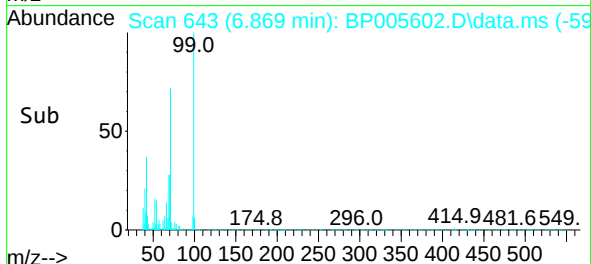
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A



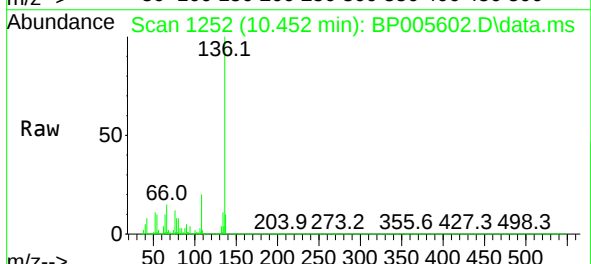
Tgt Ion: 99 Resp: 13514  
Ion Ratio Lower Upper  
99 100  
42 36.7 12.9 19.3#  
71 72.8 26.7 40.1#

Manual Integrations  
APPROVED

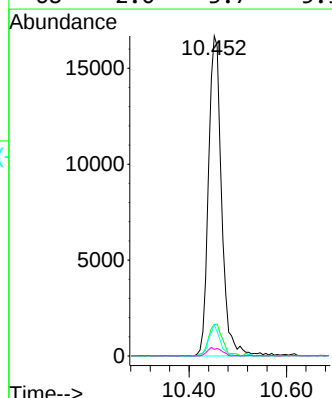
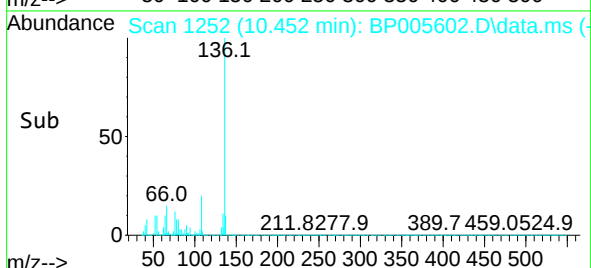
mohammad  
5/19/2021 11:39:46 AM

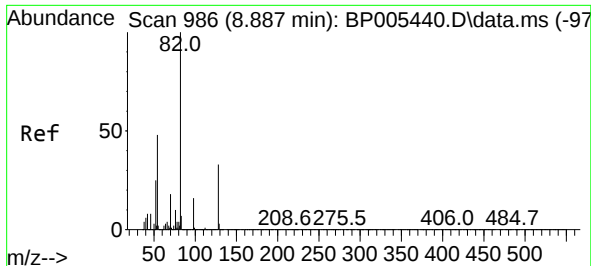


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.452 min Scan# 1252  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10



Tgt Ion: 136 Resp: 31179  
Ion Ratio Lower Upper  
136 100  
137 9.8 8.9 13.3  
54 9.8 5.0 7.4#  
68 2.0 3.7 5.5#





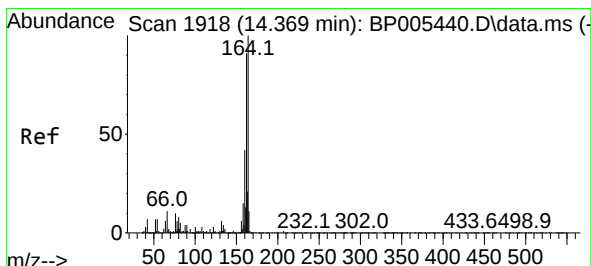
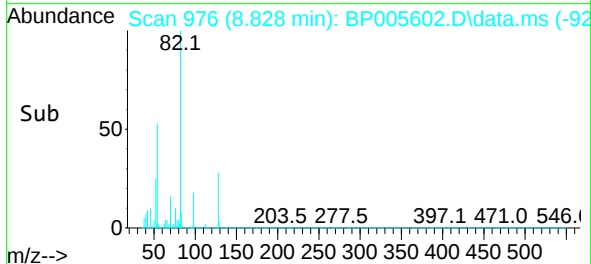
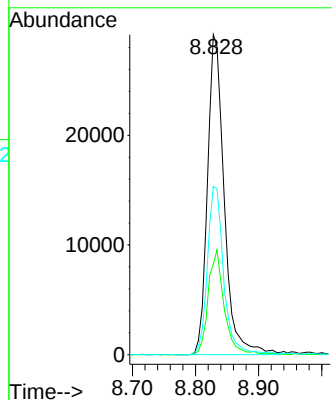
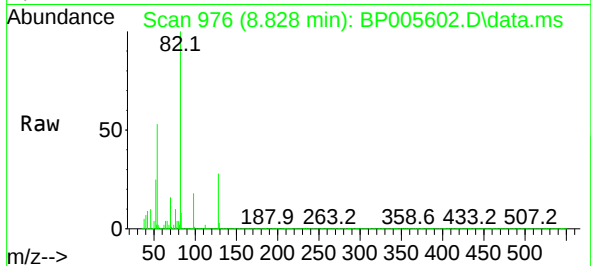
#23  
Nitrobenzene-d5  
Concen: 67.85 ng  
RT: 8.828 min Scan# 976  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 53745 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 28.2  | 30.5  | 45.7# |
| 54        | 52.5  | 33.9  | 50.9# |

Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A

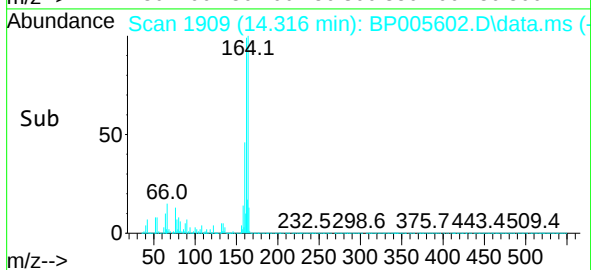
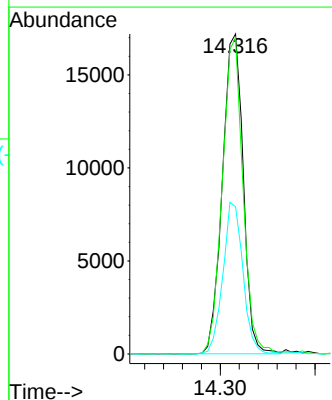
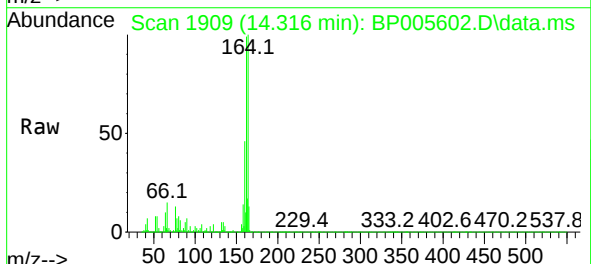
Manual Integrations  
APPROVED

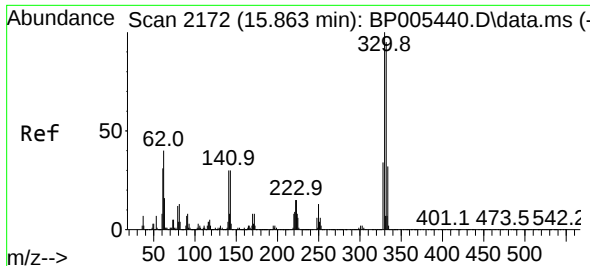
mohammad  
5/19/2021 11:39:46 AM



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 14.316 min Scan# 1909  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

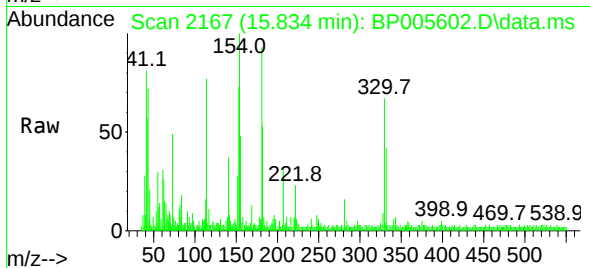
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 26175 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 98.8  | 73.5  | 110.3 |
| 160       | 46.0  | 40.6  | 61.0  |





#42  
2,4,6-Tribromophenol  
Concen: 0.59 ng  
RT: 15.834 min Scan# 2167  
Delta R.T. 0.018 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

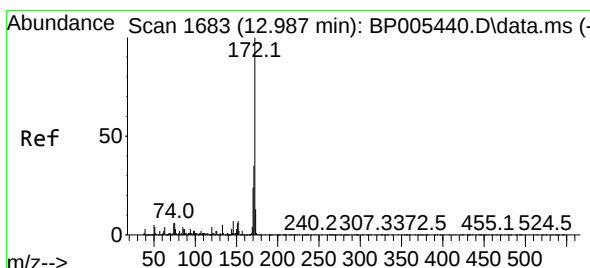
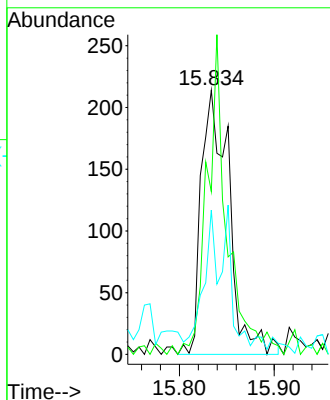
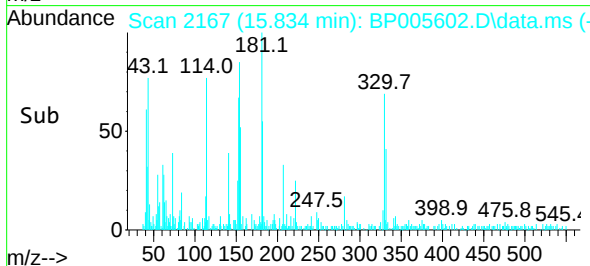
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A



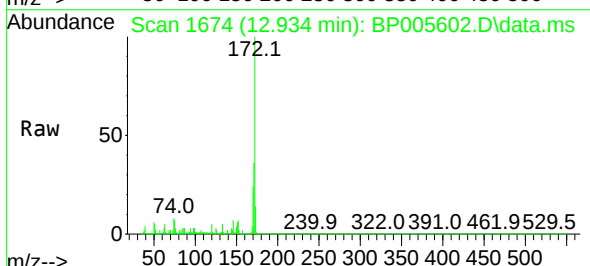
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 86.8  | 76.3  | 114.5 |
| 141     | 44.3  | 22.8  | 34.2# |

Manual Integrations  
APPROVED

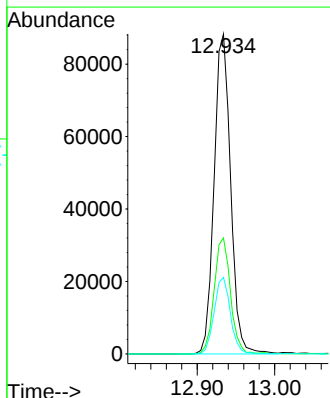
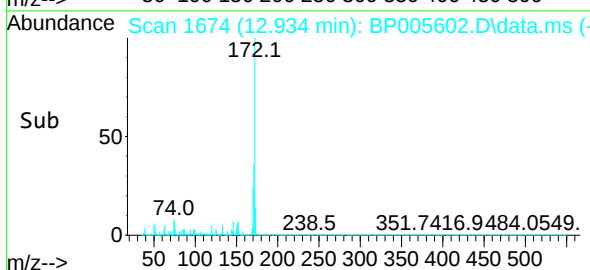
mohammad  
5/19/2021 11:39:46 AM

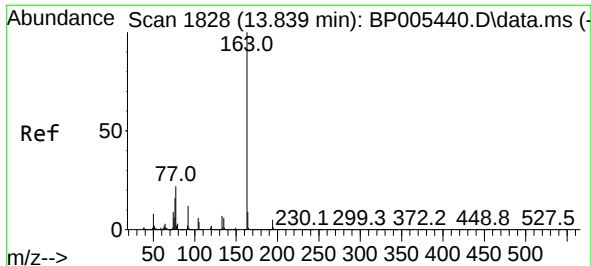


#45  
2-Fluorobiphenyl  
Concen: 56.59 ng  
RT: 12.934 min Scan# 1674  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.3  | 28.1  | 42.1  |
| 170     | 23.9  | 19.6  | 29.4  |





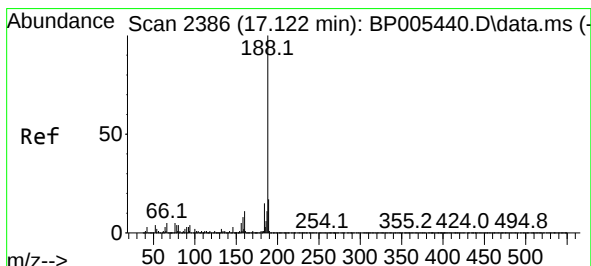
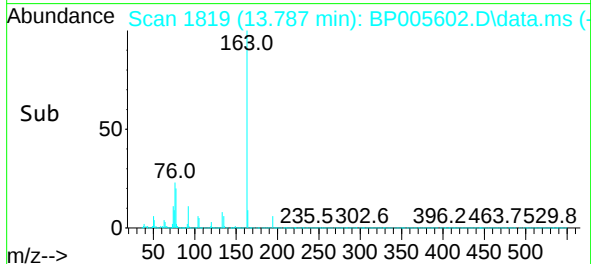
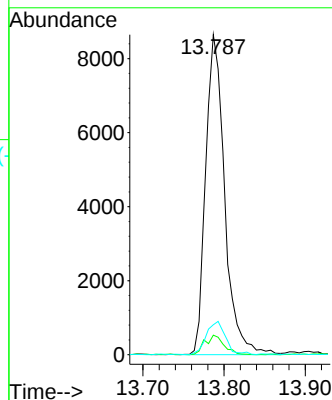
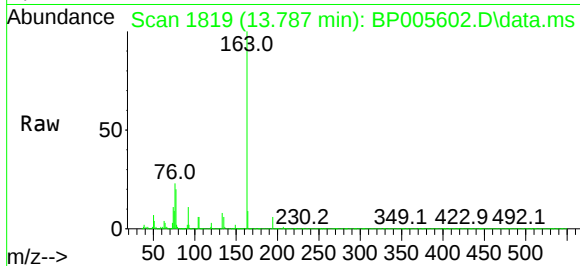
#50  
Dimethylphthalate  
Concen: 6.23 ng  
RT: 13.787 min Scan# 1819  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

Tgt Ion:163 Resp: 14073  
Ion Ratio Lower Upper  
163 100  
194 6.1 3.9 5.9#  
164 9.3 8.1 12.1

Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A

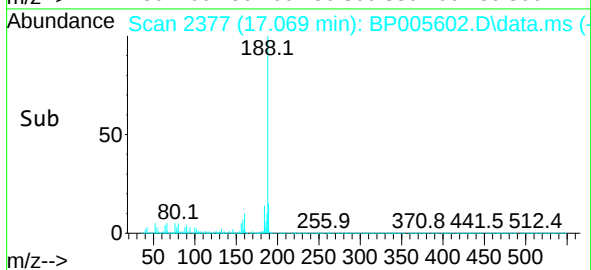
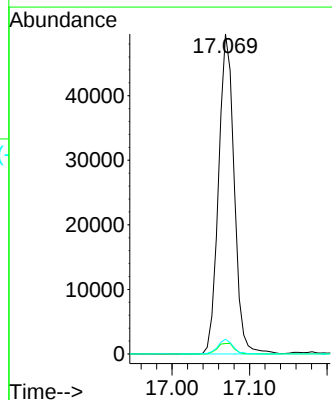
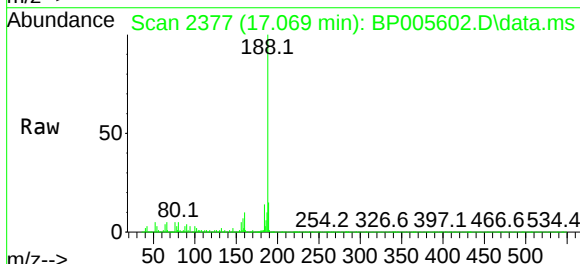
Manual Integrations  
APPROVED

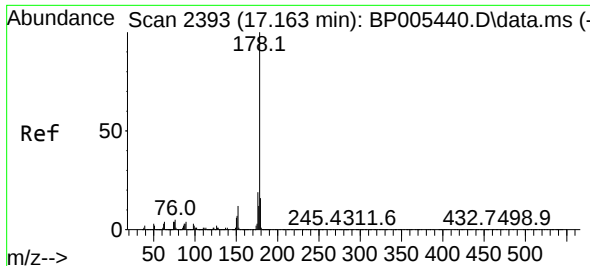
mohammad  
5/19/2021 11:39:46 AM



#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 17.069 min Scan# 2377  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

Tgt Ion:188 Resp: 69491  
Ion Ratio Lower Upper  
188 100  
94 3.2 5.0 7.6#  
80 4.6 5.9 8.9#





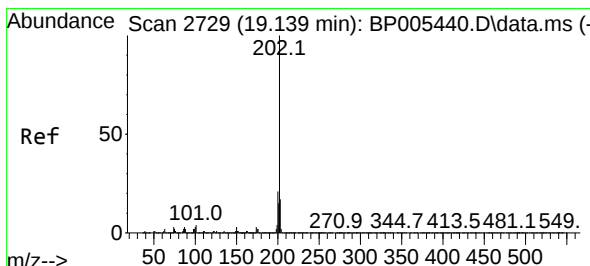
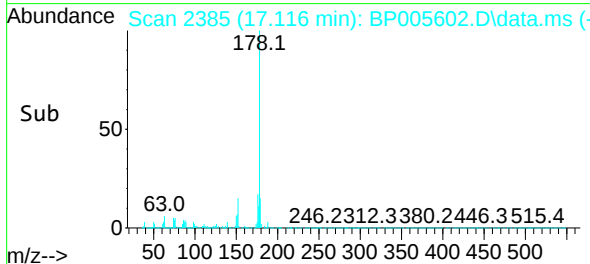
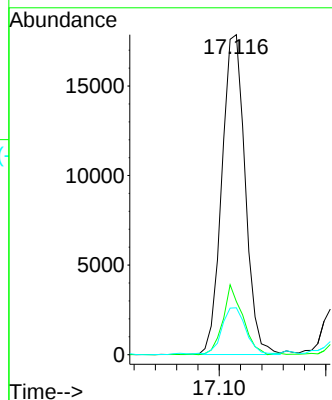
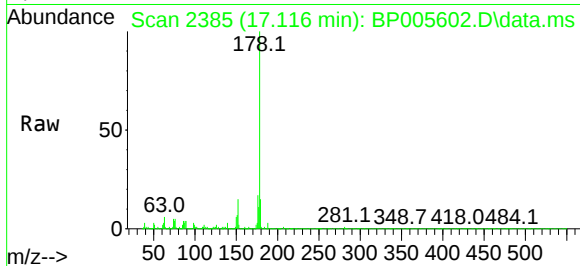
#71  
Phenanthrene  
Concen: 6.86 ng  
RT: 17.116 min Scan# 2385  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 27076 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 16.6  | 15.4  | 23.2  |
| 179       | 14.6  | 12.3  | 18.5  |

Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A

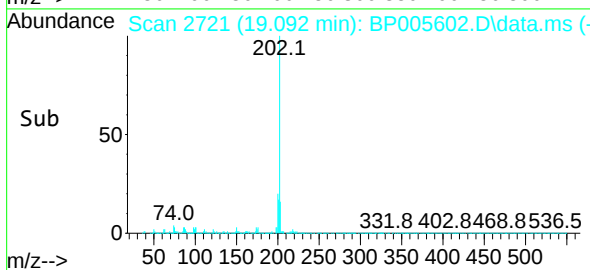
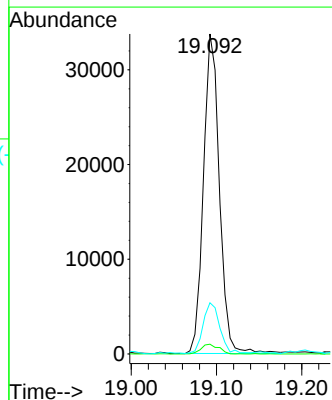
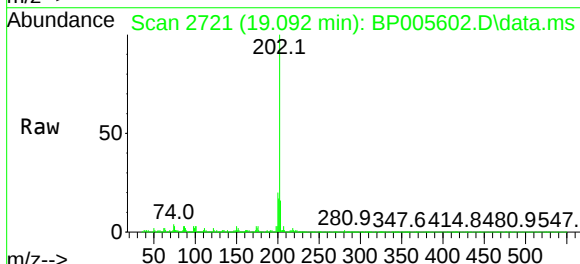
Manual Integrations  
APPROVED

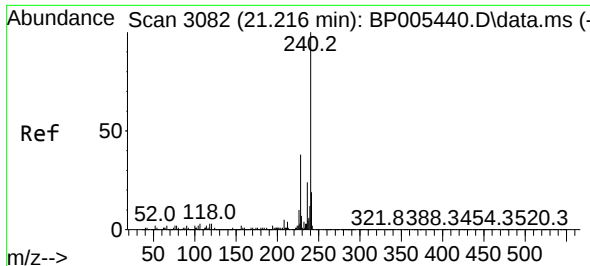
mohammad  
5/19/2021 11:39:46 AM



#75  
Fluoranthene  
Concen: 8.09 ng  
RT: 19.092 min Scan# 2721  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

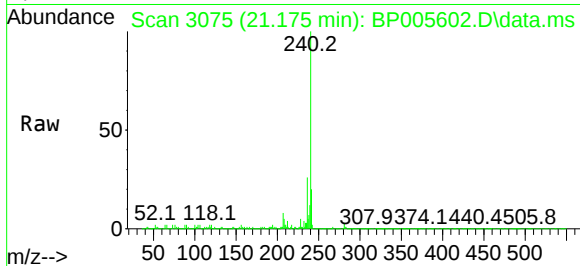
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 43914 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 3.0   | 0.0   | 26.1  |
| 203       | 16.0  | 0.0   | 37.2  |





#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 21.175 min Scan# 3075  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

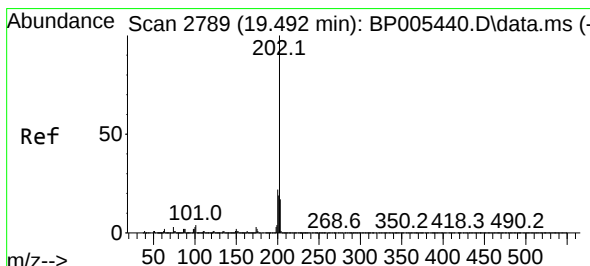
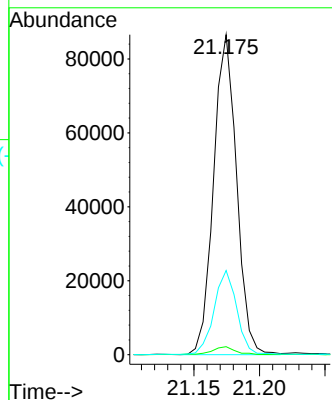
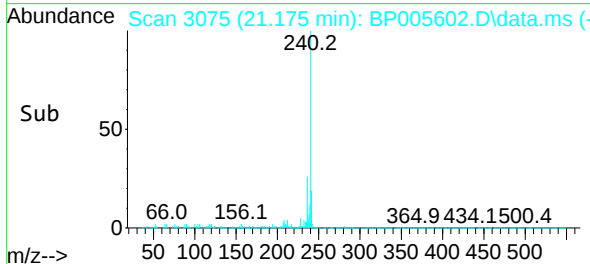
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A



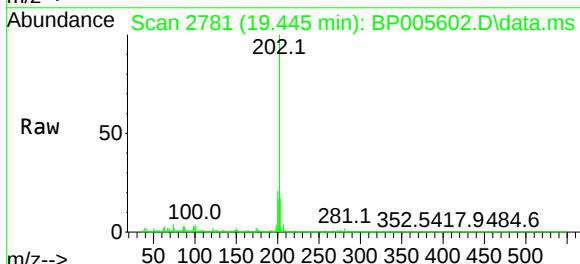
Tgt Ion:240 Resp: 105370  
Ion Ratio Lower Upper  
240 100  
120 2.5 4.2 6.2#  
236 26.3 20.2 30.2

Manual Integrations  
APPROVED

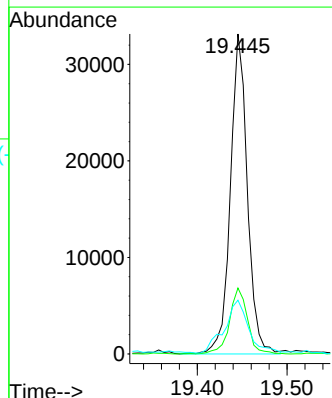
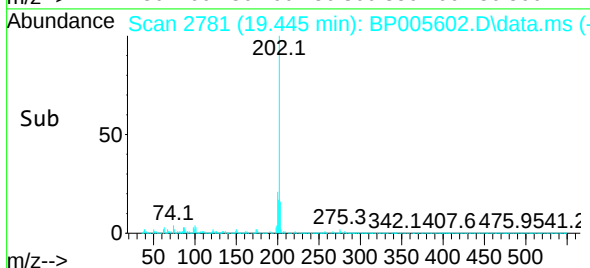
mohammad  
5/19/2021 11:39:46 AM

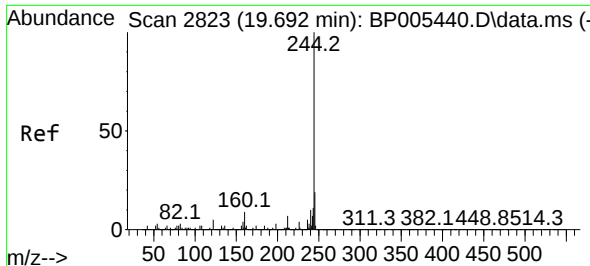


#78  
Pyrene  
Concen: 7.32 ng  
RT: 19.445 min Scan# 2781  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10



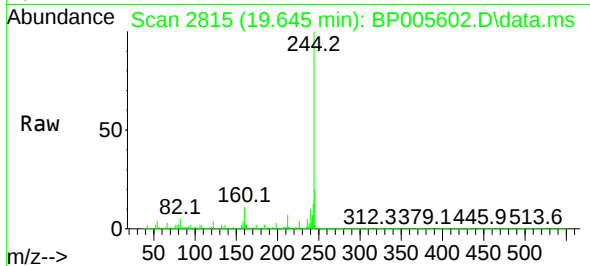
Tgt Ion:202 Resp: 43644  
Ion Ratio Lower Upper  
202 100  
200 20.6 16.9 25.3  
203 16.8 13.8 20.6





#79  
Terphenyl-d14  
Concen: 54.41 ng  
RT: 19.645 min Scan# 2815  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

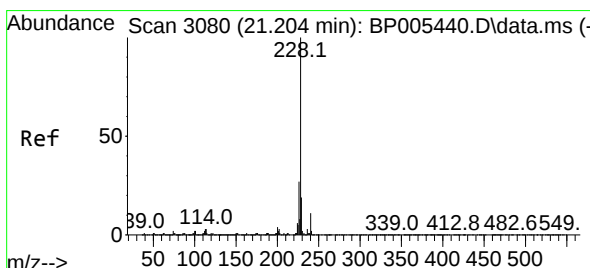
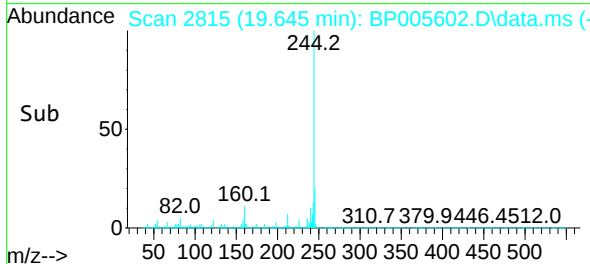
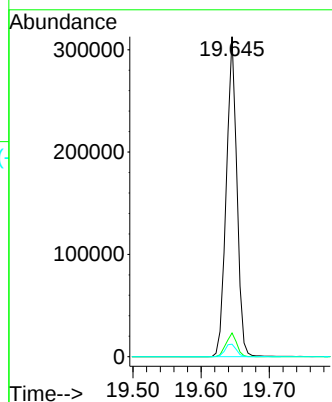
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A



Tgt Ion:244 Resp: 337600  
Ion Ratio Lower Upper  
244 100  
212 7.4 5.8 8.6  
122 3.9 5.2 7.8#

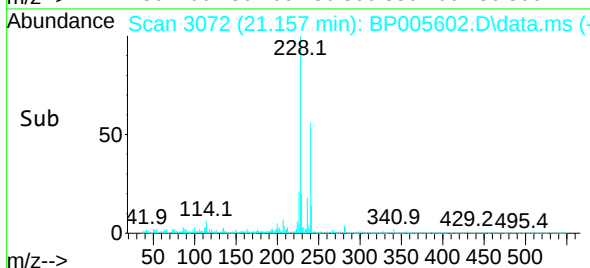
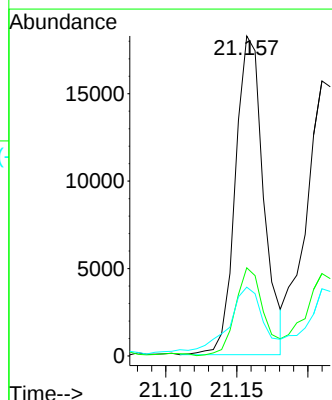
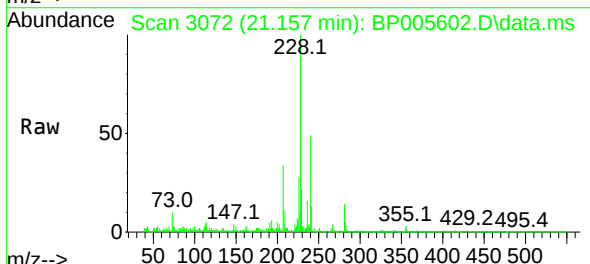
Manual Integrations  
APPROVED

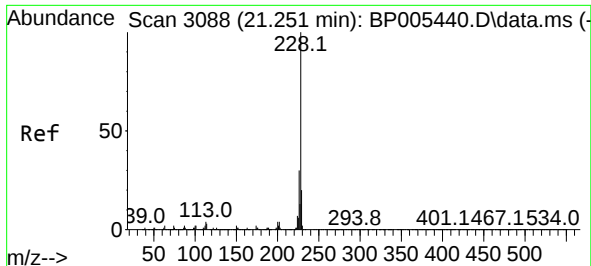
mohammad  
5/19/2021 11:39:46 AM



#81  
Benzo(a)anthracene  
Concen: 3.68 ng  
RT: 21.157 min Scan# 3072  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

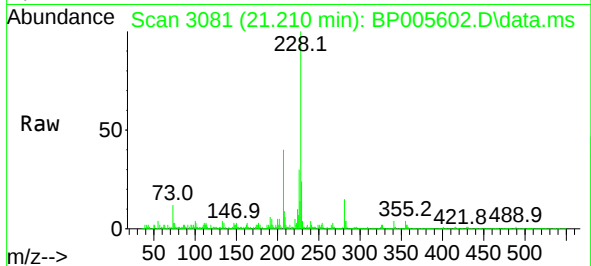
Tgt Ion:228 Resp: 25153  
Ion Ratio Lower Upper  
228 100  
226 27.5 21.2 31.8  
229 21.5 15.6 23.4





#83  
Chrysene  
Concen: 3.66 ng m  
RT: 21.210 min Scan# 3081  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

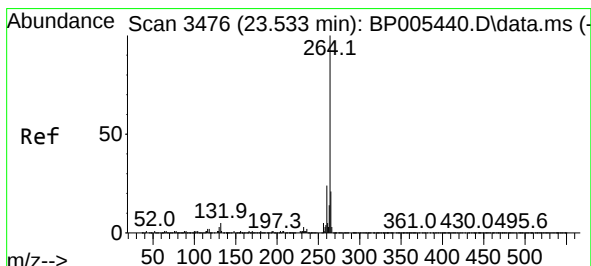
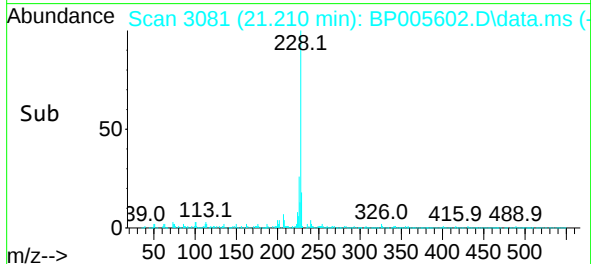
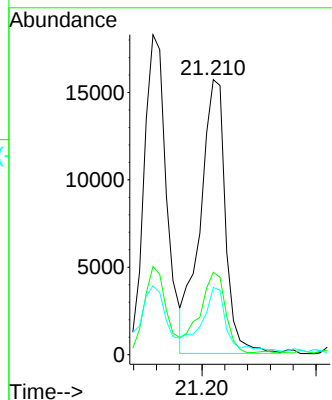
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A



Tgt Ion:228 Resp: 24240  
Ion Ratio Lower Upper  
228 100  
226 30.0 24.8 37.2  
229 24.4 15.4 23.0#

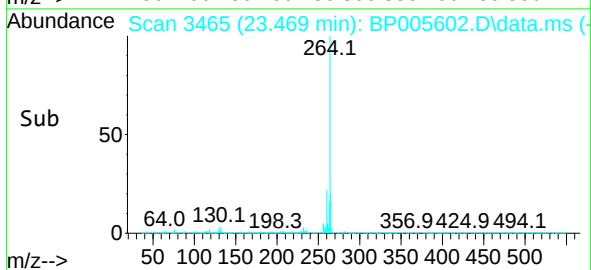
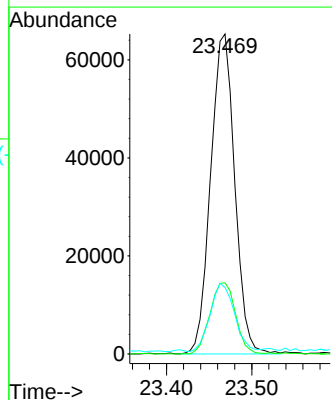
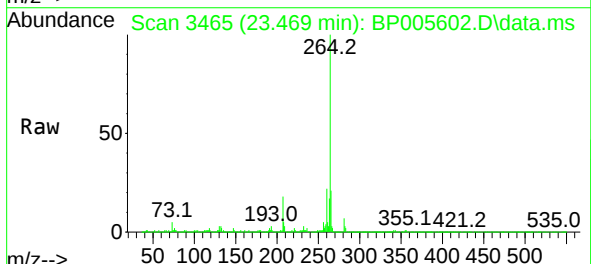
Manual Integrations  
APPROVED

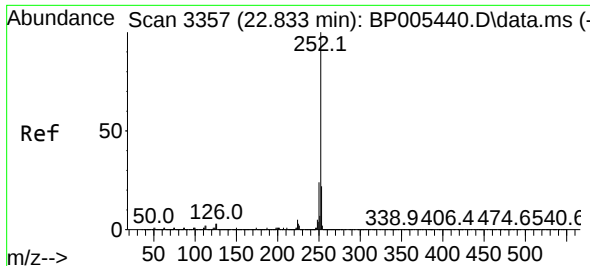
mohammad  
5/19/2021 11:39:46 AM



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 23.469 min Scan# 3465  
Delta R.T. -0.006 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

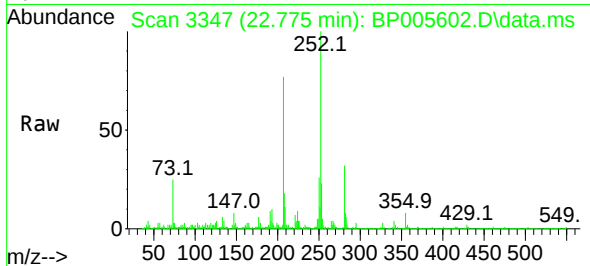
Tgt Ion:264 Resp: 128226  
Ion Ratio Lower Upper  
264 100  
260 22.2 20.6 30.8  
265 20.8 19.0 28.6





#88  
Benzo(b)fluoranthene  
Concen: 3.83 ng m  
RT: 22.775 min Scan# 3347  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

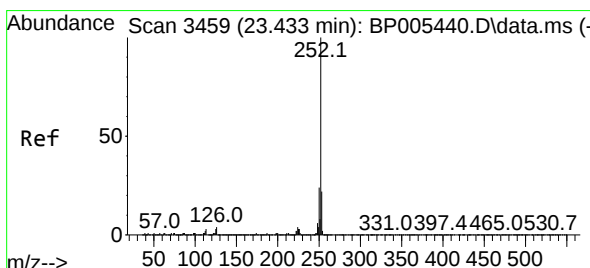
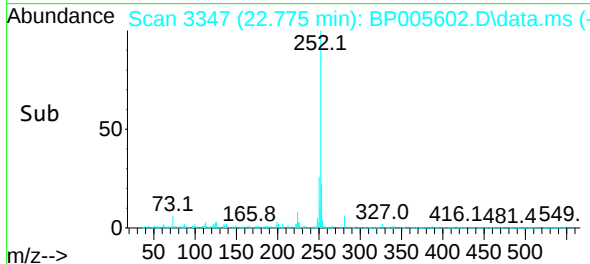
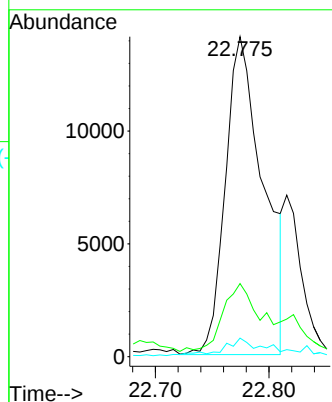
Instrument :  
BNA\_P  
ClientSampleId :  
JG-SPOILS-5-11-21-A



Tgt Ion:252 Resp: 32686  
Ion Ratio Lower Upper  
252 100  
253 22.9 18.2 27.2  
125 2.9 3.4 5.0#

Manual Integrations  
APPROVED

mohammad  
5/19/2021 11:39:46 AM



#90  
Benzo(a)pyrene  
Concen: 3.08 ng  
RT: 23.369 min Scan# 3448  
Delta R.T. 0.000 min  
Lab File: BP005602.D  
Acq: 18 May 2021 16:10

Tgt Ion:252 Resp: 24111  
Ion Ratio Lower Upper  
252 100  
253 19.2 17.1 25.7  
125 3.1 3.8 5.6#

