

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP101821\  
 Data File : BP007459.D  
 Acq On : 18 Oct 2021 12:24  
 Operator : CG/JU  
 Sample : M4181-14  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 C0AZ2

Manual Integrations  
 APPROVED

mohammad  
 10/19/2021 12:36:27 PM

Quant Time: Oct 18 12:52:48 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SFAM-EPA-BP101421.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Oct 18 11:26:58 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| -----                         |        |      |          |       |        |          |
| Internal Standards            |        |      |          |       |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.958  | 152  | 197770   | 20.00 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.763 | 136  | 796038   | 20.00 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.598 | 164  | 513343   | 20.00 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.351 | 188  | 1097138  | 20.00 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.439 | 240  | 1073900  | 20.00 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 23.898 | 264  | 1147621  | 20.00 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |       |        |          |
| 3) 1,4-Dioxane-d8             | 3.381  | 96   | 19498    | 3.89  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.811  | 84   | 16962    | 1.24  | ng/ul  | 0.02     |
| 7) Phenol-d5                  | 7.116  | 99   | 337216   | 21.83 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.287  | 67   | 197284   | 21.42 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.487  | 132  | 259356   | 21.35 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.663  | 113  | 266200   | 22.38 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.116  | 128  | 122297   | 24.28 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.840  | 143  | 125741   | 26.72 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.381 | 165  | 267907   | 23.34 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.893 | 131  | 315695   | 20.34 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.004 | 166  | 808819   | 22.77 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.287 | 160  | 971202   | 21.76 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.775 | 143  | 122046   | 21.42 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.592 | 176  | 701695   | 23.61 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.698 | 200  | 84997    | 19.33 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.451 | 188  | 1109554  | 23.81 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.680 | 212  | 1154824  | 21.51 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.739 | 264  | 1155319  | 20.23 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |       |        |          |
|                               |        |      |          |       | Qvalue |          |
| 16) Acetophenone              | 8.781  | 105  | 37913    | 2.08  | ng/ul# | 86       |
| 30) Naphthalene               | 10.816 | 128  | 227333   | 5.87  | ng/ul  | 100      |
| 36) 2-Methylnaphthalene       | 12.428 | 142  | 205244   | 7.76  | ng/ul  | 98       |
| 37) 1-Methylnaphthalene       | 12.646 | 142  | 155910   | 5.82  | ng/ul  | 99       |
| 50) Acenaphthylene            | 14.316 | 152  | 223087   | 4.96  | ng/ul  | 98       |
| 56) Dibenzofuran              | 14.992 | 168  | 88155    | 2.08  | ng/ul  | 92       |
| 72) Phenanthrene              | 17.392 | 178  | 250732   | 4.57  | ng/ul  | 99       |
| 74) Anthracene                | 17.486 | 178  | 254107   | 4.63  | ng/ul  | 99       |
| 77) Carbazole                 | 17.751 | 167  | 70221    | 1.46  | ng/ul  | 97       |
| 80) Fluoranthene              | 19.357 | 202  | 627016   | 9.41  | ng/ul  | 100      |
| 82) Pyrene                    | 19.710 | 202  | 406644   | 6.05  | ng/ul  | 99       |
| 85) Benzo(a)anthracene        | 21.422 | 228  | 541391   | 8.21  | ng/ul  | 92       |
| 87) Chrysene                  | 21.474 | 228  | 658596   | 10.30 | ng/ul  | 96       |
| 90) Benzo(b)fluoranthene      | 23.151 | 252  | 1584248  | 22.68 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.198 | 252  | 533094m  | 8.19  | ng/ul  |          |
| 93) Benzo(a)pyrene            | 23.786 | 252  | 213487   | 3.20  | ng/ul  | 94       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.468 | 276  | 365708   | 4.72  | ng/ul  | 97       |
| 95) Dibenzo(a,h)anthracene    | 26.480 | 278  | 212725   | 3.23  | ng/ul  | 95       |
| -----                         |        |      |          |       |        |          |

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

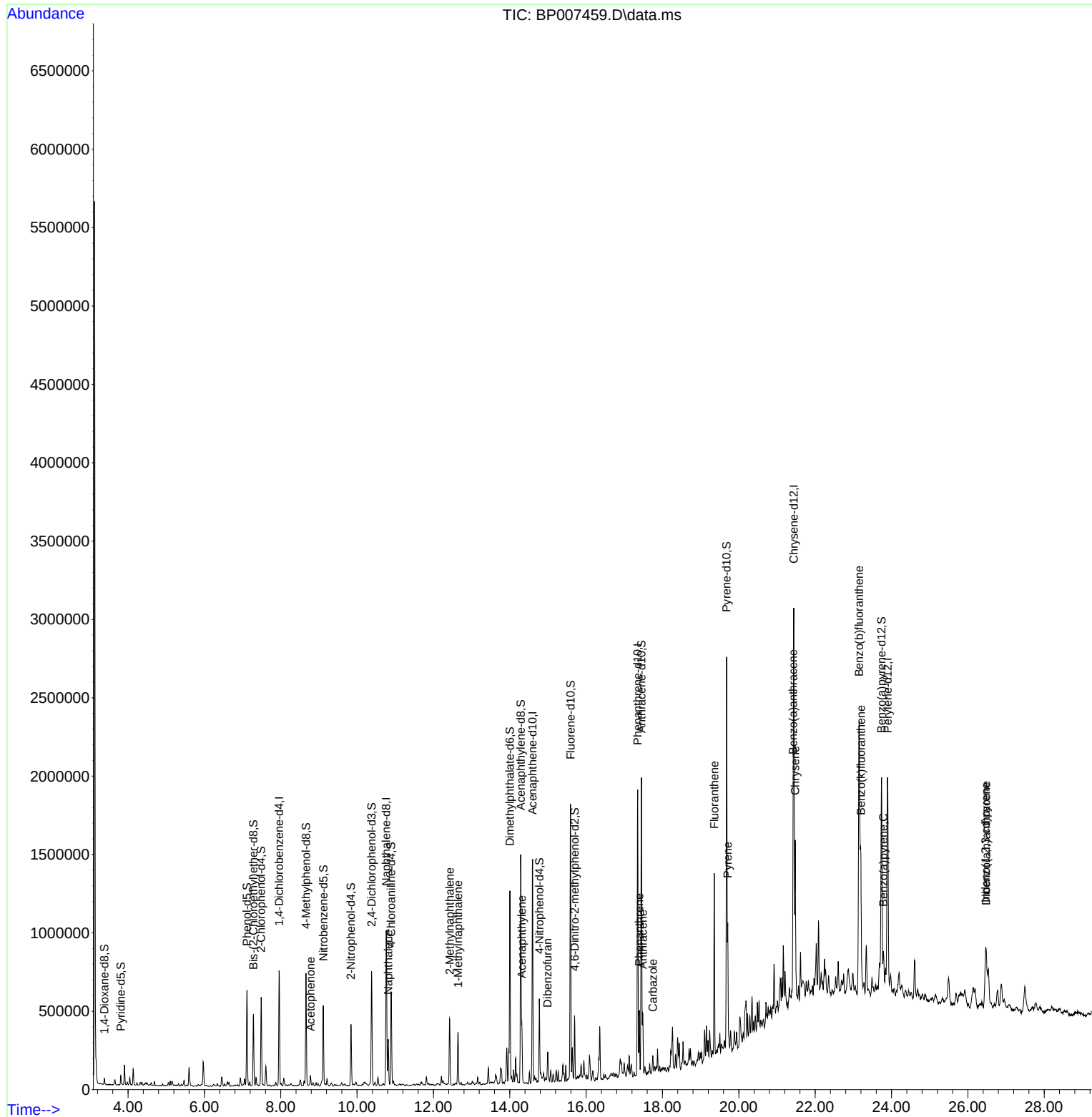
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP101821\  
Data File : BP007459.D  
Acq On : 18 Oct 2021 12:24  
Operator : CG/JU  
Sample : M4181-14  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

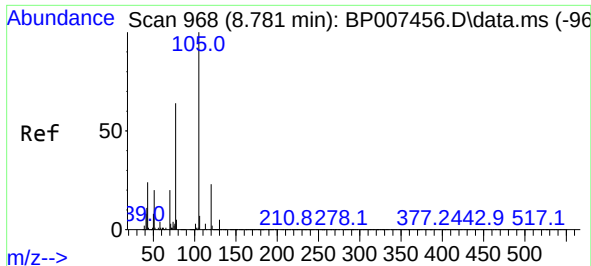
Instrument :  
BNA\_P  
ClientSampleId :  
C0AZ2

Manual Integrations  
APPROVED

mohammad  
10/19/2021 12:36:27 PM

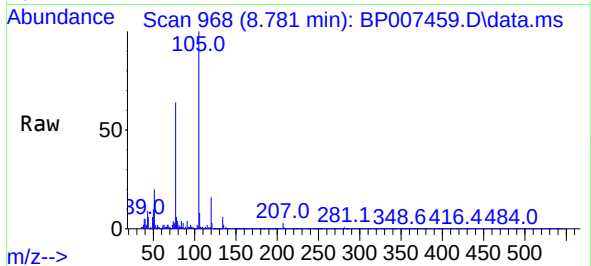
Quant Time: Oct 18 12:52:48 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_P\METHODS\SFAM-EPA-BP101421.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Oct 18 11:26:58 2021  
Response via : Initial Calibration





#16  
Acetophenone  
Concen: 2.08 ng/ul  
RT: 8.781 min Scan# 968  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

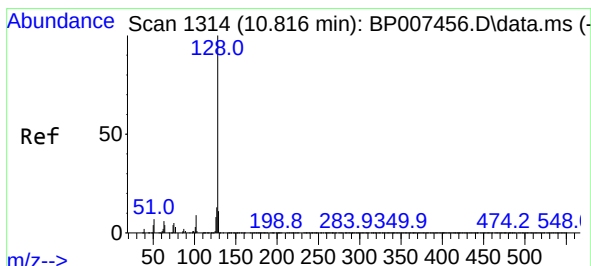
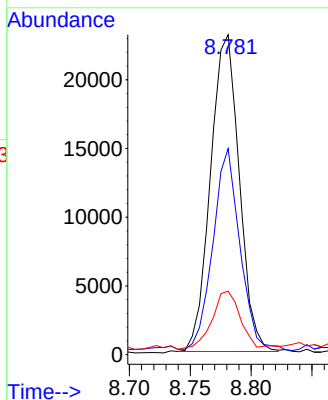
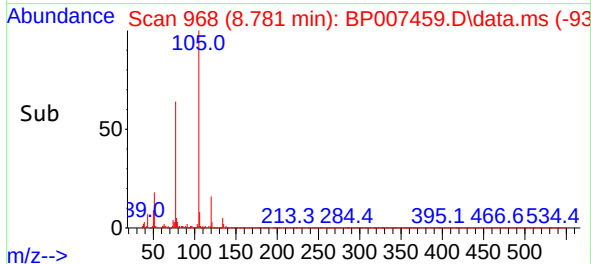
Instrument :  
BNA\_P  
ClientSampleId :  
C0AZ2



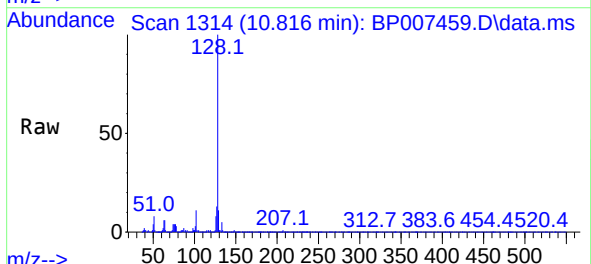
Tgt Ion:105 Resp: 37913  
Ion Ratio Lower Upper  
105 100  
77 64.4 61.8 92.6  
51 19.8 20.8 31.2#

Manual Integrations  
APPROVED

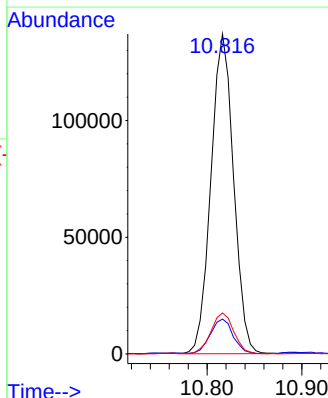
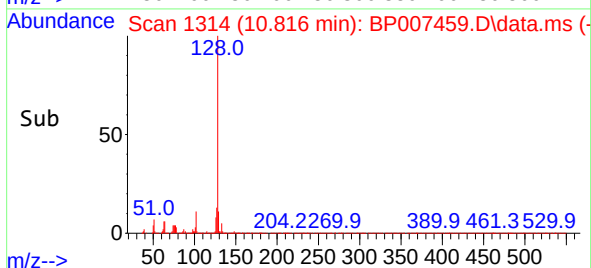
mohammad  
10/19/2021 12:36:27 PM

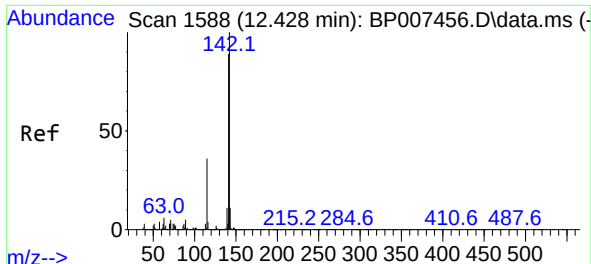


#30  
Naphthalene  
Concen: 5.87 ng/ul  
RT: 10.816 min Scan# 1314  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24



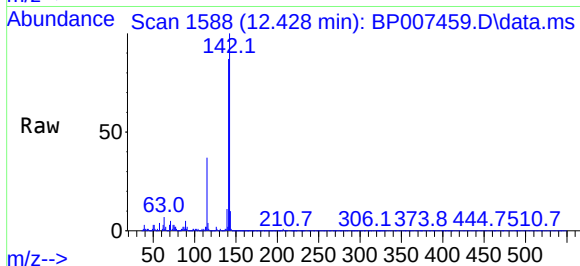
Tgt Ion:128 Resp: 227333  
Ion Ratio Lower Upper  
128 100  
129 10.9 8.8 13.2  
127 12.8 10.5 15.7





#36  
2-Methylnaphthalene  
Concen: 7.76 ng/ul  
RT: 12.428 min Scan# 1588  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

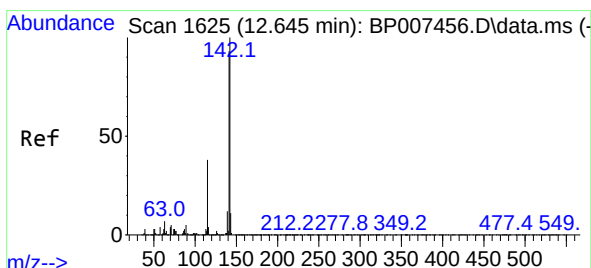
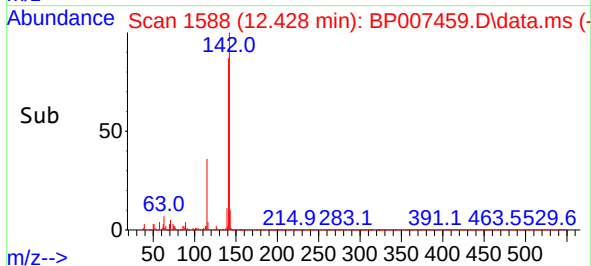
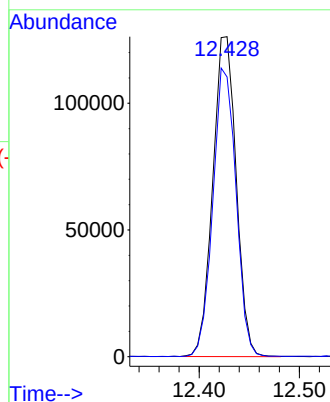
Instrument :  
BNA\_P  
ClientSampled :  
C0AZ2



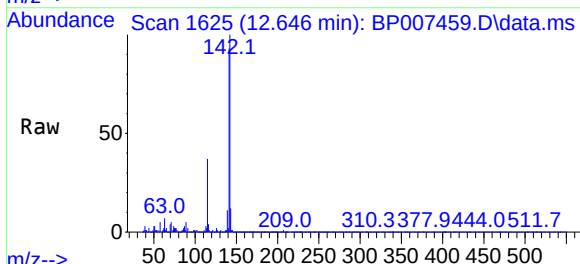
Tgt Ion:142 Resp: 205244  
Ion Ratio Lower Upper  
142 100  
141 87.4 71.8 107.6

Manual Integrations  
APPROVED

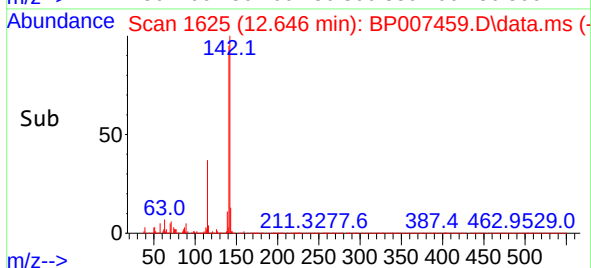
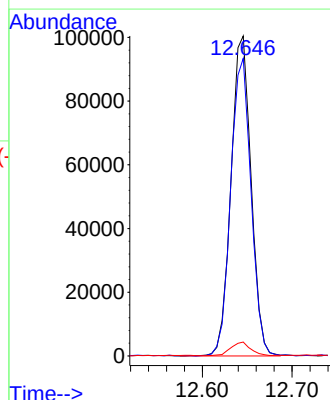
mohammad  
10/19/2021 12:36:27 PM

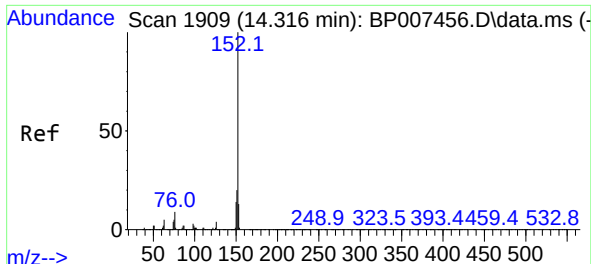


#37  
1-Methylnaphthalene  
Concen: 5.82 ng/ul  
RT: 12.646 min Scan# 1625  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24



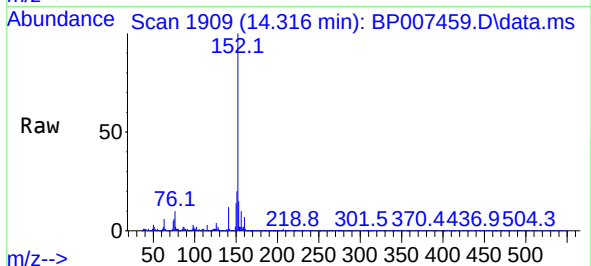
Tgt Ion:142 Resp: 155910  
Ion Ratio Lower Upper  
142 100  
141 93.0 73.5 110.3  
116 4.4 3.1 4.7





#50  
Acenaphthylene  
Concen: 4.96 ng/ul  
RT: 14.316 min Scan# 1909  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

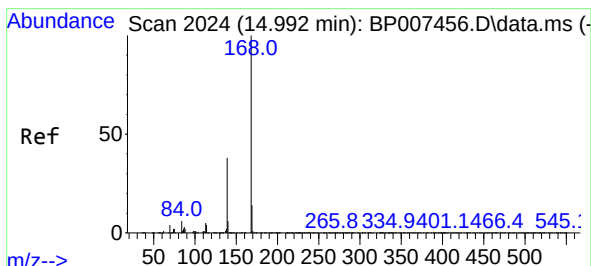
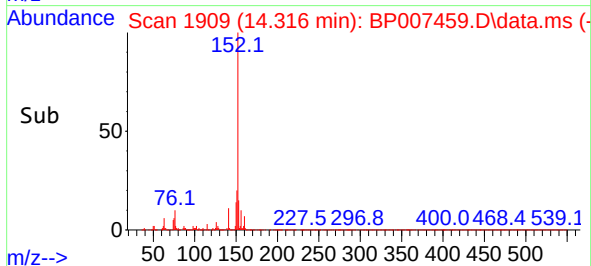
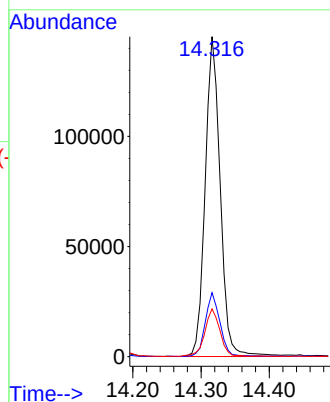
Instrument :  
BNA\_P  
ClientSampleId :  
C0AZ2



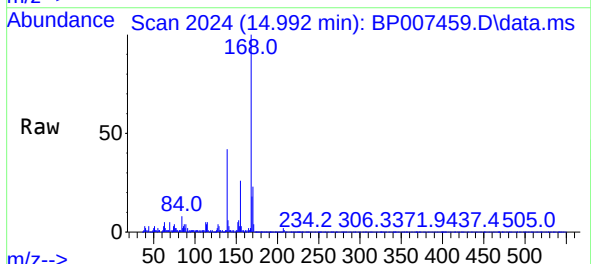
Tgt Ion:152 Resp: 223087  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.8 23.8  
153 14.9 10.6 15.8

Manual Integrations  
APPROVED

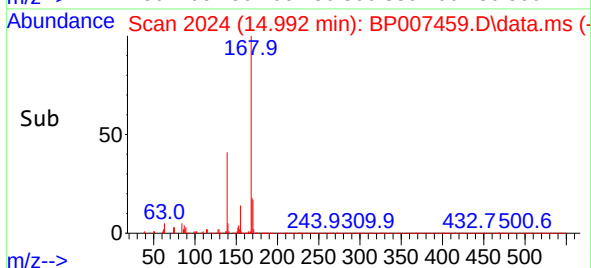
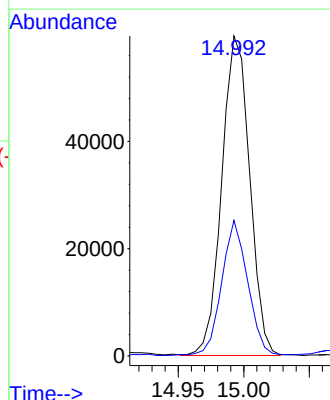
mohammad  
10/19/2021 12:36:27 PM

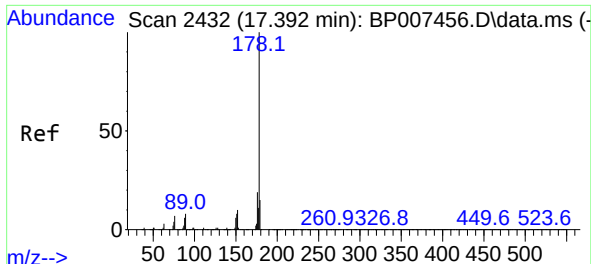


#56  
Dibenzofuran  
Concen: 2.08 ng/ul  
RT: 14.992 min Scan# 2024  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24



Tgt Ion:168 Resp: 88155  
Ion Ratio Lower Upper  
168 100  
139 42.4 30.1 45.1





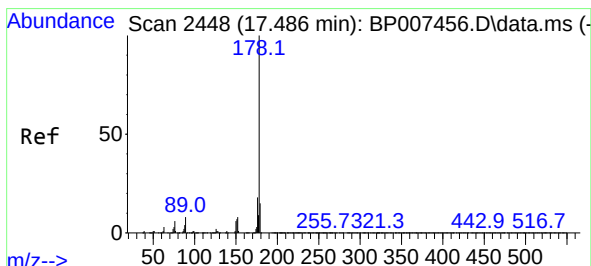
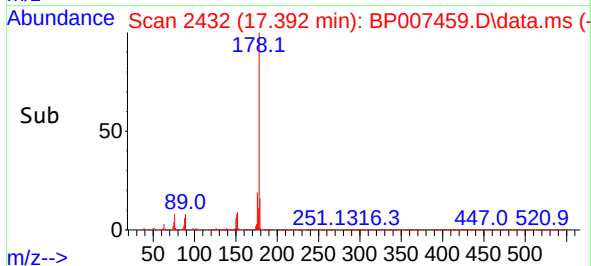
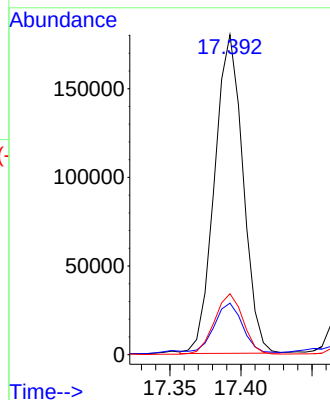
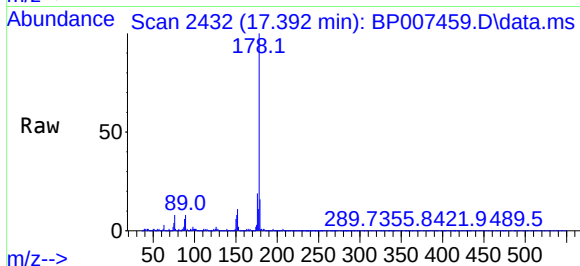
#72  
Phenanthrene  
Concen: 4.57 ng/ul  
RT: 17.392 min Scan# 2432  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

Tgt Ion:178 Resp: 250732  
Ion Ratio Lower Upper  
178 100  
179 16.1 12.1 18.1  
176 19.1 15.2 22.8

Instrument :  
BNA\_P  
ClientSampled :  
C0AZ2

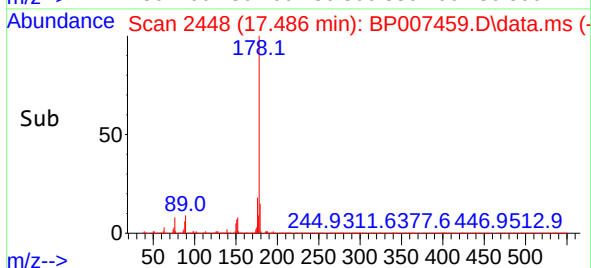
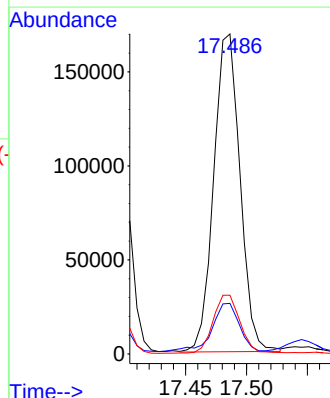
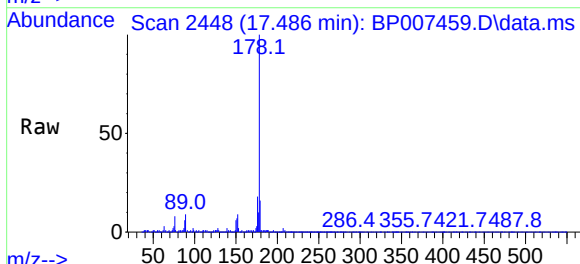
Manual Integrations  
APPROVED

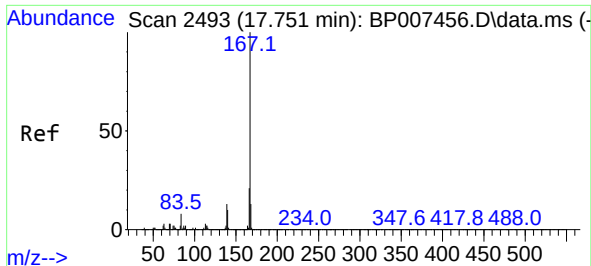
mohammad  
10/19/2021 12:36:27 PM



#74  
Anthracene  
Concen: 4.63 ng/ul  
RT: 17.486 min Scan# 2448  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

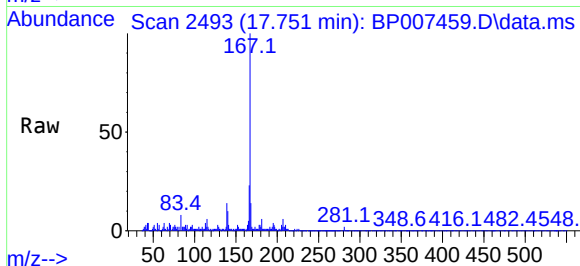
Tgt Ion:178 Resp: 254107  
Ion Ratio Lower Upper  
178 100  
179 15.8 12.2 18.4  
176 18.4 14.6 22.0





#77  
 Carbazole  
 Concen: 1.46 ng/ul  
 RT: 17.751 min Scan# 2493  
 Delta R.T. 0.000 min  
 Lab File: BP007459.D  
 Acq: 18 Oct 2021 12:24

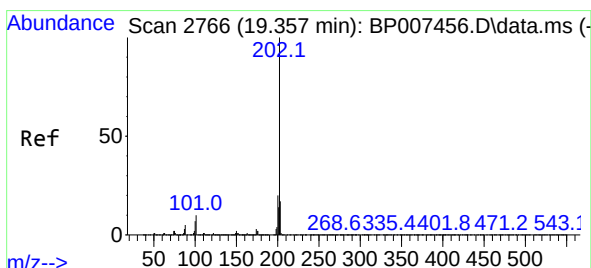
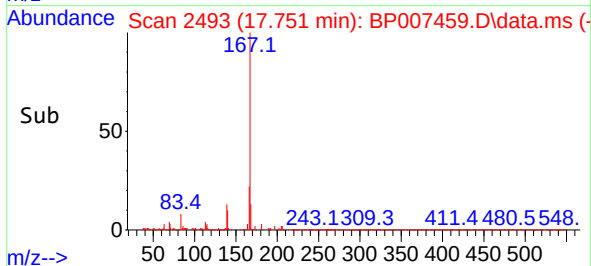
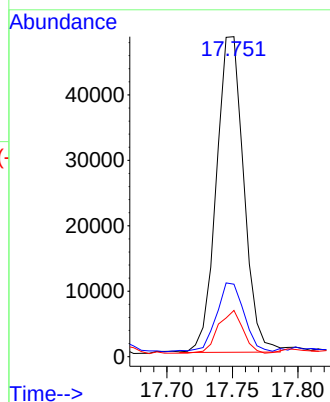
Instrument :  
 BNA\_P  
 ClientSampled :  
 C0AZ2



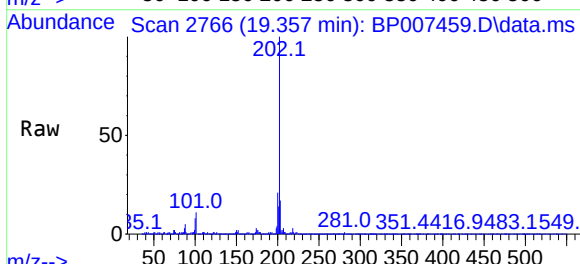
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.6  | 17.3  | 25.9  |
| 139     | 14.4  | 10.4  | 15.6  |

Manual Integrations  
 APPROVED

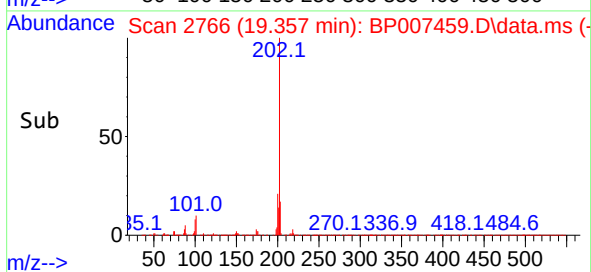
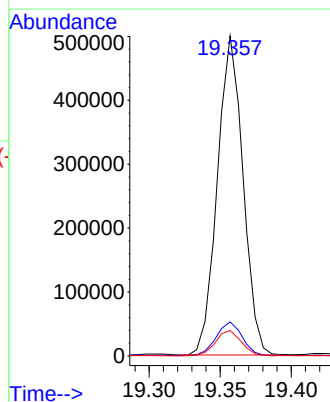
mohammad  
 10/19/2021 12:36:27 PM

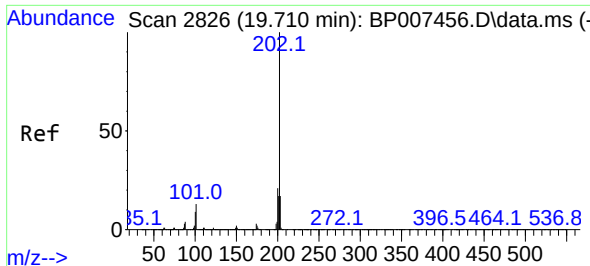


#80  
 Fluoranthene  
 Concen: 9.41 ng/ul  
 RT: 19.357 min Scan# 2766  
 Delta R.T. 0.000 min  
 Lab File: BP007459.D  
 Acq: 18 Oct 2021 12:24



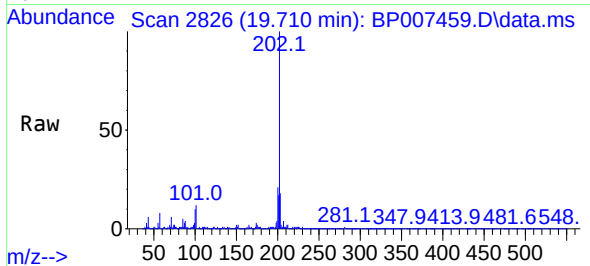
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.7  | 8.4   | 12.6  |
| 100     | 8.0   | 6.3   | 9.5   |





#82  
Pyrene  
Concen: 6.05 ng/ul  
RT: 19.710 min Scan# 2826  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

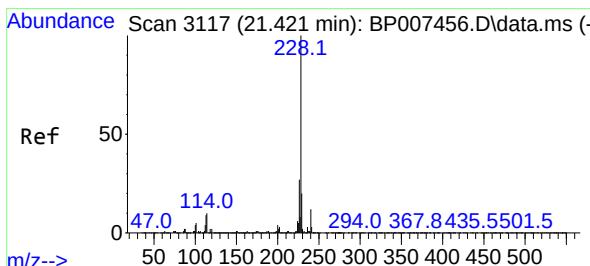
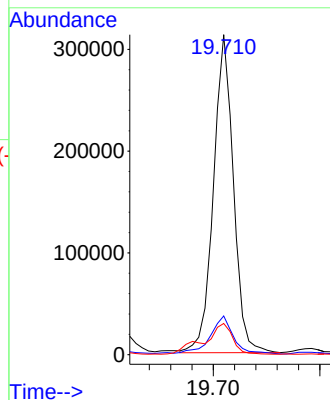
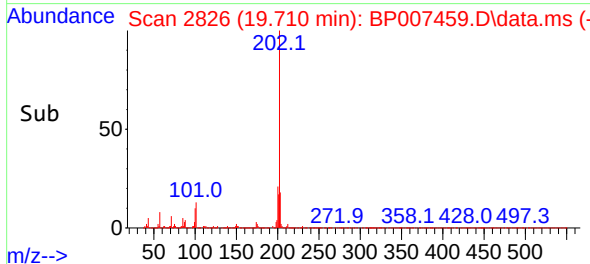
Instrument :  
BNA\_P  
ClientSampled :  
C0AZ2



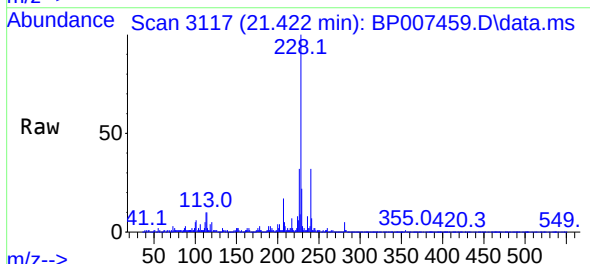
Tgt Ion:202 Resp: 406644  
Ion Ratio Lower Upper  
202 100  
101 12.1 9.9 14.9  
100 9.8 7.9 11.9

Manual Integrations  
APPROVED

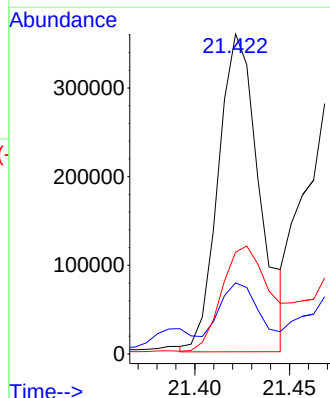
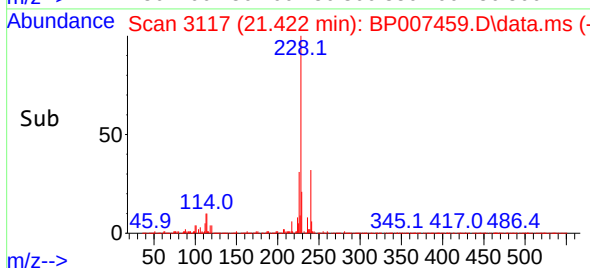
mohammad  
10/19/2021 12:36:27 PM



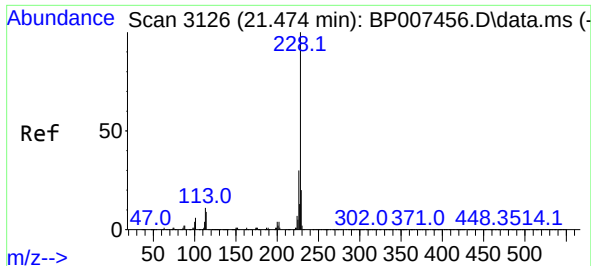
#85  
Benzo(a)anthracene  
Concen: 8.21 ng/ul  
RT: 21.422 min Scan# 3117  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24



Tgt Ion:228 Resp: 541391  
Ion Ratio Lower Upper  
228 100  
229 22.2 15.7 23.5  
226 31.8 21.4 32.0







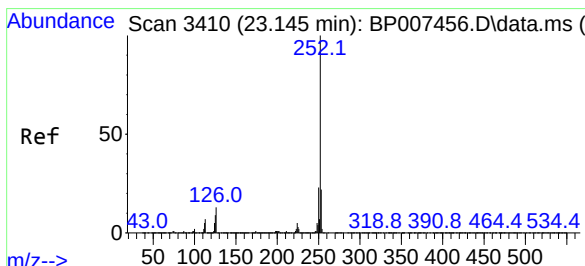
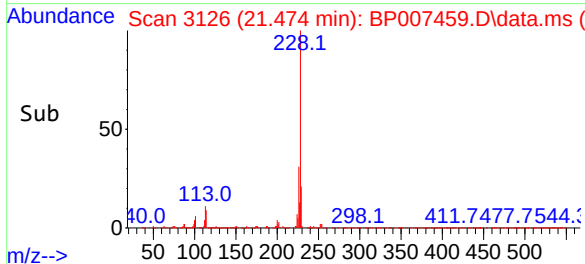
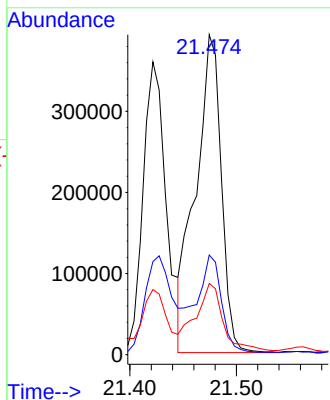
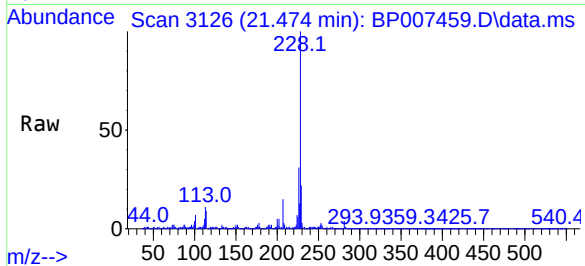
#87  
Chrysene  
Concen: 10.30 ng/ul  
RT: 21.474 min Scan# 3126  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

Tgt Ion:228 Resp: 658596  
Ion Ratio Lower Upper  
228 100  
226 31.2 23.7 35.5  
229 22.2 16.0 24.0

Instrument :  
BNA\_P  
ClientSampled :  
C0AZ2

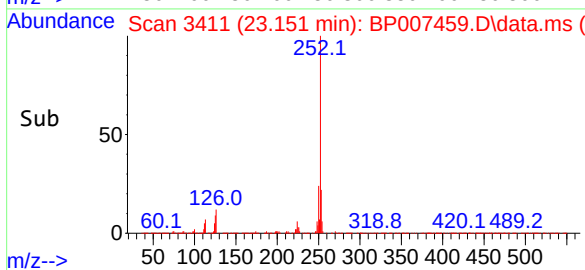
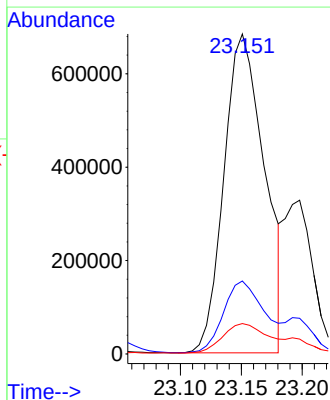
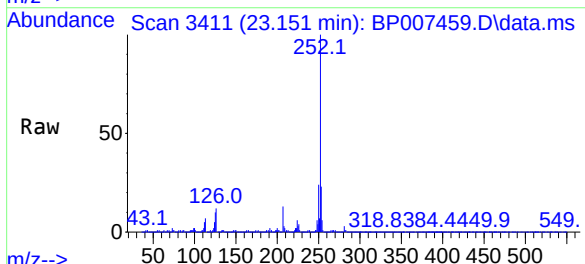
Manual Integrations  
APPROVED

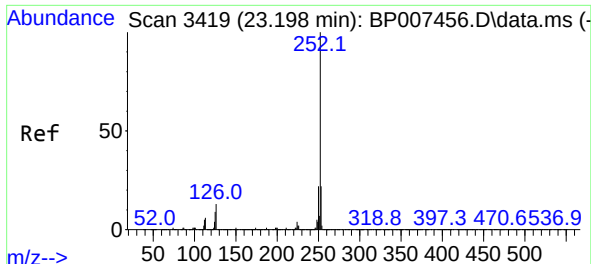
mohammad  
10/19/2021 12:36:27 PM



#90  
Benzo(b)fluoranthene  
Concen: 22.68 ng/ul  
RT: 23.151 min Scan# 3411  
Delta R.T. 0.006 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

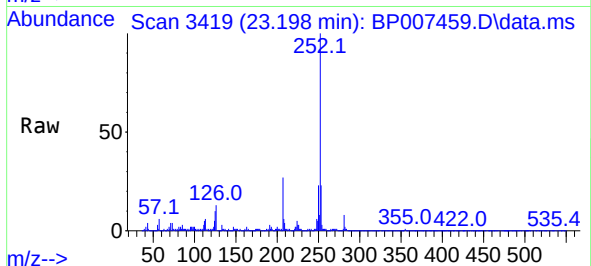
Tgt Ion:252 Resp: 1584248  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.2  
125 9.5 7.8 11.6





#91  
Benzo(k)fluoranthene  
Concen: 8.19 ng/ul m  
RT: 23.198 min Scan# 3419  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

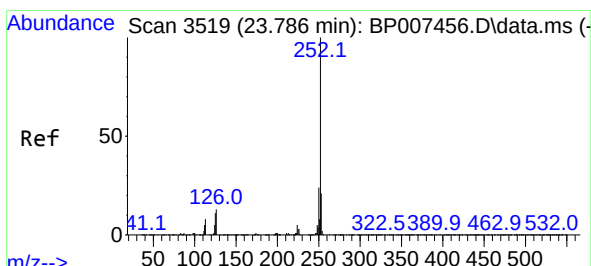
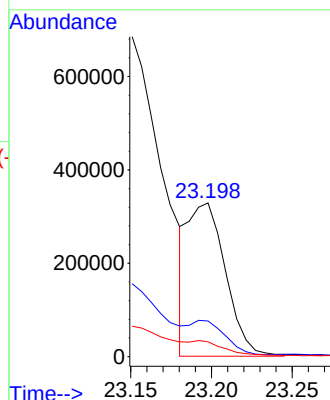
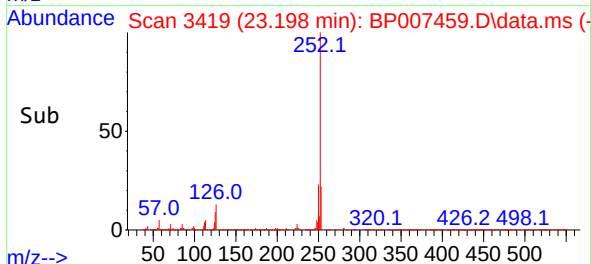
Instrument :  
BNA\_P  
ClientSampled :  
C0AZ2



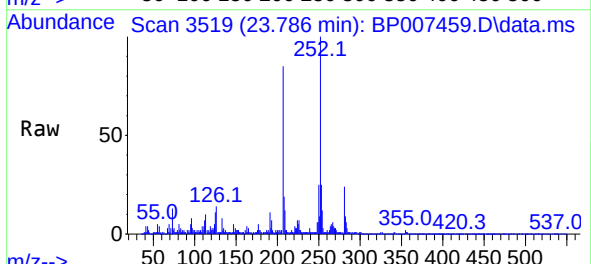
Tgt Ion:252 Resp: 533094  
Ion Ratio Lower Upper  
252 100  
253 23.2 17.6 26.4  
125 9.7 8.0 12.0

Manual Integrations  
APPROVED

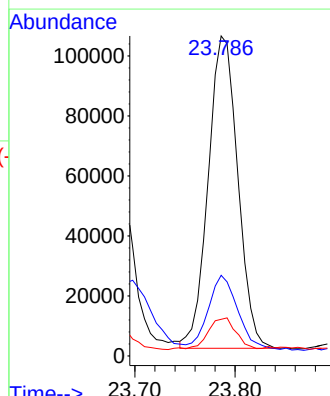
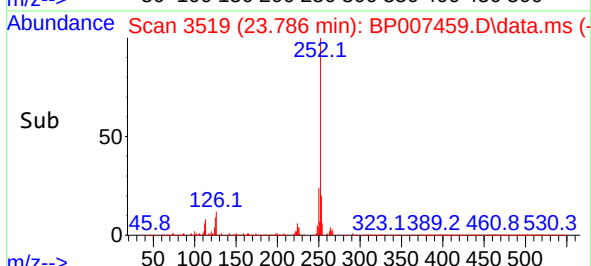
mohammad  
10/19/2021 12:36:27 PM

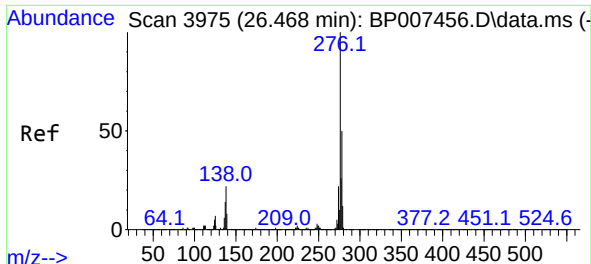


#93  
Benzo(a)pyrene  
Concen: 3.20 ng/ul  
RT: 23.786 min Scan# 3519  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24



Tgt Ion:252 Resp: 213487  
Ion Ratio Lower Upper  
252 100  
253 25.2 17.3 25.9  
125 11.4 8.3 12.5





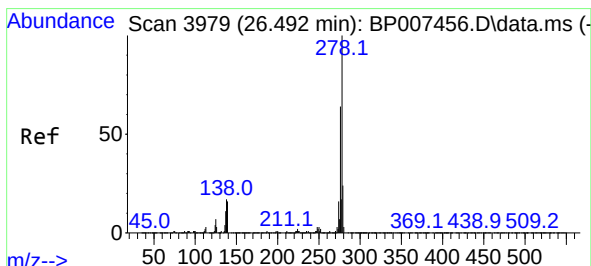
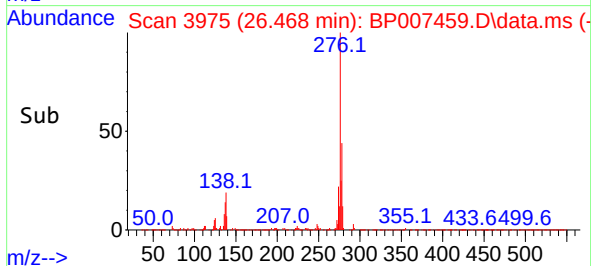
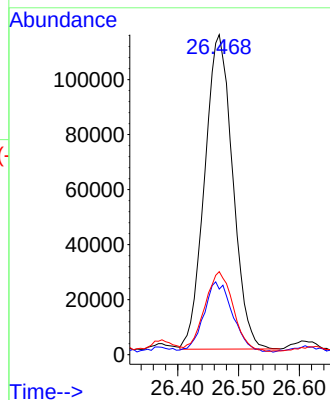
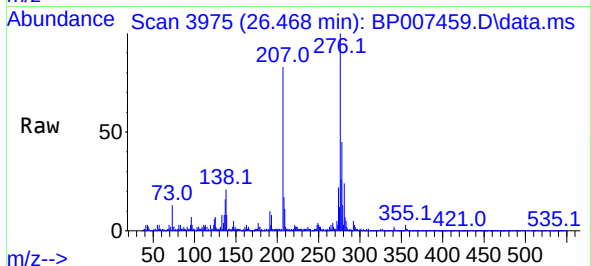
#94  
Indeno(1,2,3-cd)pyrene  
Concen: 4.72 ng/ul  
RT: 26.468 min Scan# 3975  
Delta R.T. 0.000 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

Tgt Ion:276 Resp: 365708  
Ion Ratio Lower Upper  
276 100  
138 20.5 17.8 26.8  
277 25.9 19.8 29.6

Instrument :  
BNA\_P  
ClientSampled :  
C0AZ2

Manual Integrations  
APPROVED

mohammad  
10/19/2021 12:36:27 PM



#95  
Dibenzo(a,h)anthracene  
Concen: 3.23 ng/ul  
RT: 26.480 min Scan# 3977  
Delta R.T. -0.012 min  
Lab File: BP007459.D  
Acq: 18 Oct 2021 12:24

Tgt Ion:278 Resp: 212725  
Ion Ratio Lower Upper  
278 100  
139 16.7 12.8 19.2  
279 27.4 19.1 28.7

