

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061224\  
 Data File : BP020608.D  
 Acq On : 12 Jun 2024 20:24  
 Operator : MA/JU  
 Sample : P2846-03 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 HR-04-061124

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/15/2024

Quant Time: Jun 13 06:15:32 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP052924.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 30 03:41:03 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.764  | 152  | 256115   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 10.528 | 136  | 988347   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 14.381 | 164  | 610549   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 17.192 | 188  | 1215582  | 20.000 | ng    | -0.01    |
| 76) Chrysene-d12            | 21.645 | 240  | 1114058  | 20.000 | ng    | -0.02    |
| 86) Perylene-d12            | 25.021 | 264  | 1337218  | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.381  | 112  | 215834   | 15.089 | ng    | 0.00     |
| 7) Phenol-d6                | 6.940  | 99   | 269215   | 13.345 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.905  | 82   | 172352   | 9.546  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.893 | 330  | 114170   | 18.018 | ng    | -0.02    |
| 45) 2-Fluorobiphenyl        | 12.993 | 172  | 427222   | 10.431 | ng    | -0.01    |
| 79) Terphenyl-d14           | 19.928 | 244  | 633736   | 9.470  | ng    | -0.02    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 58) Fluorene                | 15.451 | 166  | 115031   | 2.821  | ng    | # 89     |
| 71) Phenanthrene            | 17.239 | 178  | 1429520  | 23.923 | ng    | 100      |
| 72) Anthracene              | 17.322 | 178  | 386031   | 6.584  | ng    | 98       |
| 73) Carbazole               | 17.604 | 167  | 181052   | 3.192  | ng    | # 87     |
| 75) Fluoranthene            | 19.328 | 202  | 2668178  | 37.744 | ng    | 98       |
| 78) Pyrene                  | 19.704 | 202  | 2411473  | 28.777 | ng    | 99       |
| 81) Benzo(a)anthracene      | 21.628 | 228  | 1249168  | 17.029 | ng    | 97       |
| 83) Chrysene                | 21.698 | 228  | 1098085  | 15.887 | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 28.851 | 276  | 808404   | 9.942  | ng    | # 93     |
| 88) Benzo(b)fluoranthene    | 23.957 | 252  | 1574644  | 18.902 | ng    | 96       |
| 89) Benzo(k)fluoranthene    | 24.021 | 252  | 511145m  | 6.291  | ng    |          |
| 90) Benzo(a)pyrene          | 24.857 | 252  | 1142138  | 16.555 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 28.915 | 278  | 192732m  | 2.842  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 30.045 | 276  | 748121   | 11.035 | ng    | 95       |
| -----                       |        |      |          |        |       |          |

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

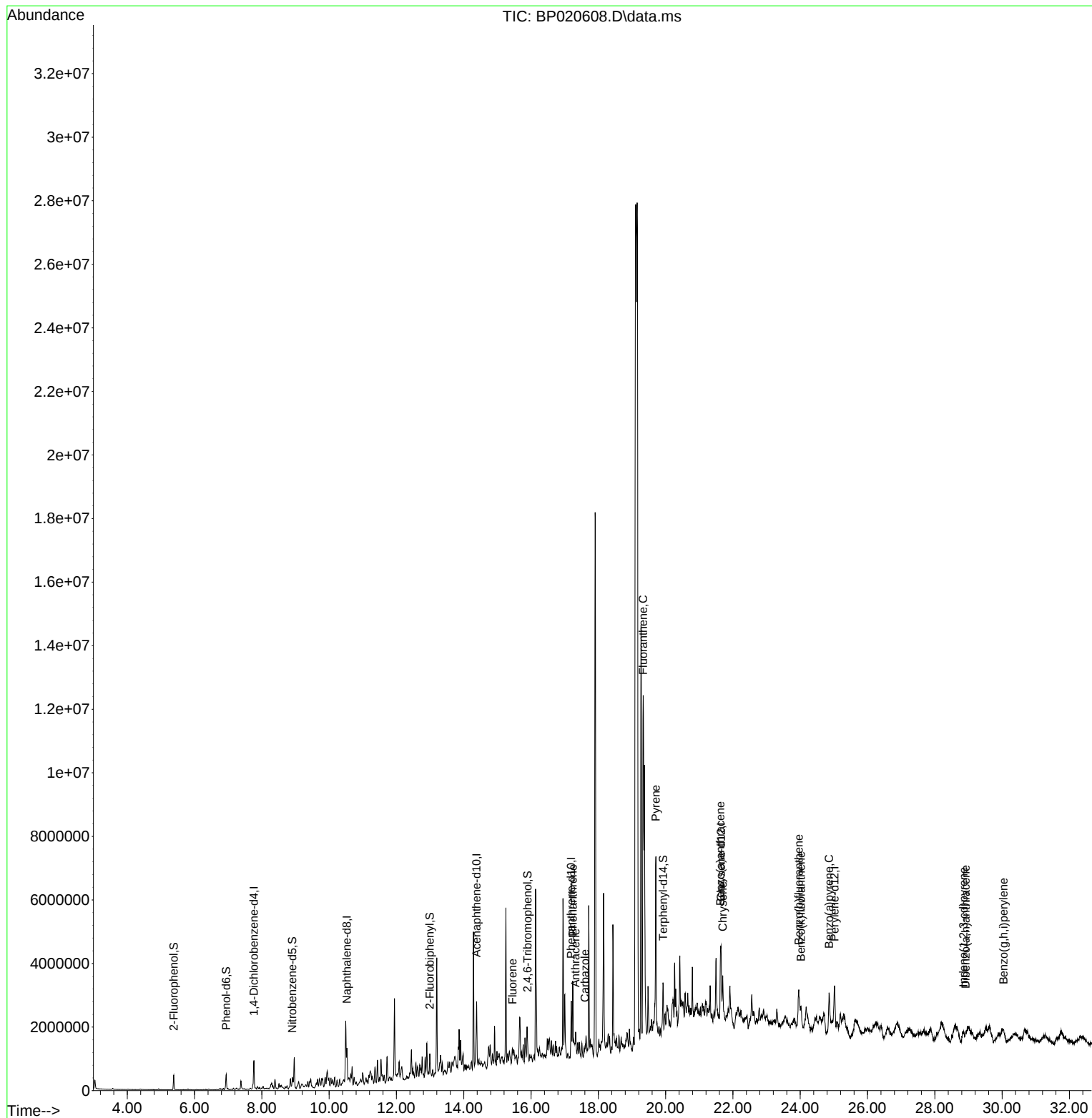
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP061224\  
Data File : BP020608.D  
Acq On : 12 Jun 2024 20:24  
Operator : MA/JU  
Sample : P2846-03 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

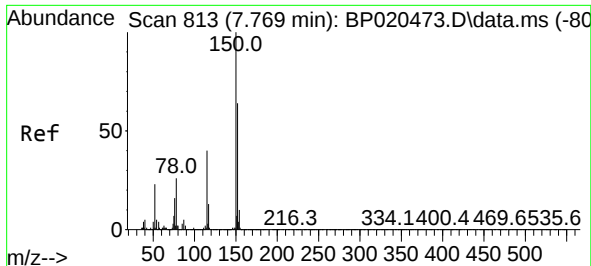
Instrument :  
BNA\_P  
ClientSampleId :  
HR-04-061124

Quant Time: Jun 13 06:15:32 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\8270E-BP052924.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu May 30 03:41:03 2024  
Response via : Initial Calibration

Manual Integrations  
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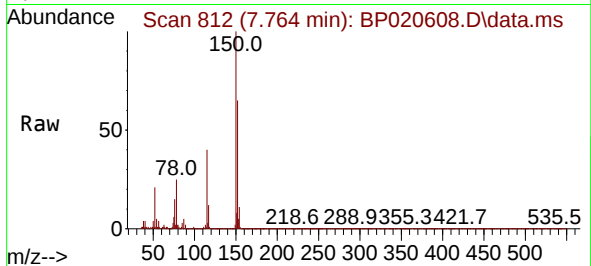
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.764 min Scan# 813  
Delta R.T. -0.005 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

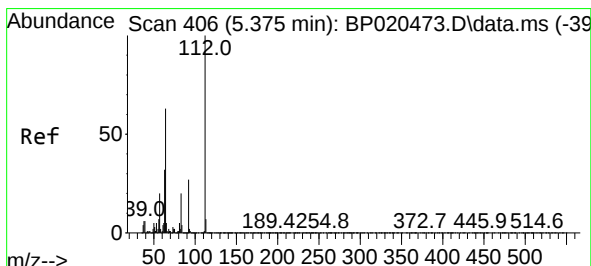
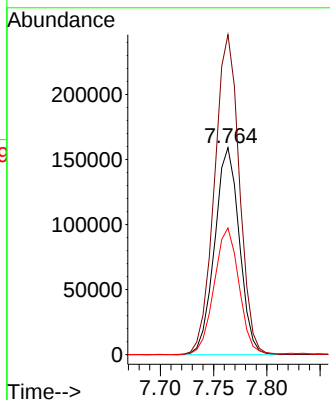
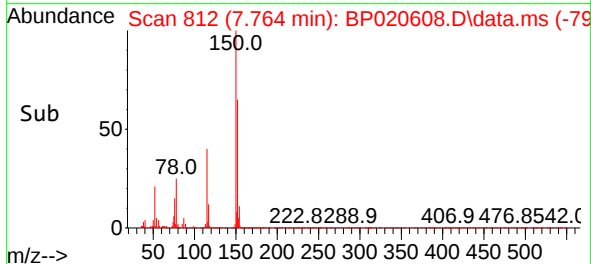
Instrument :  
BNA\_P  
ClientSampleId :  
HR-04-061124



Tgt Ion:152 Resp: 256115  
Ion Ratio Lower Upper  
152 100  
150 154.5 124.2 186.2  
115 61.2 49.5 74.3

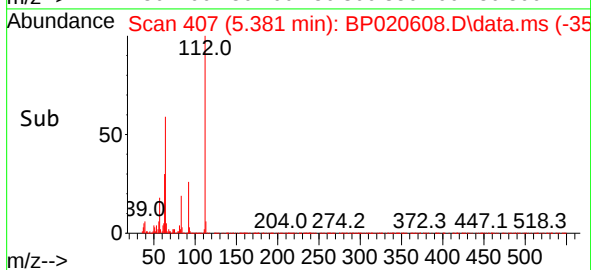
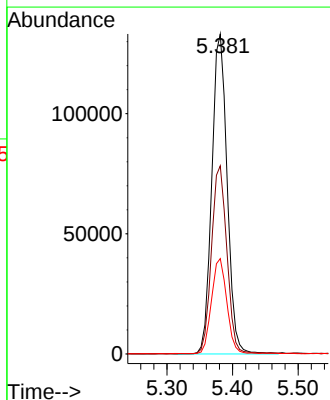
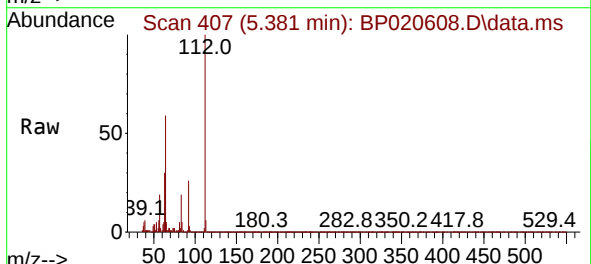
Manual Integrations  
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Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#5  
2-Fluorophenol  
Concen: 15.089 ng  
RT: 5.381 min Scan# 407  
Delta R.T. 0.006 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

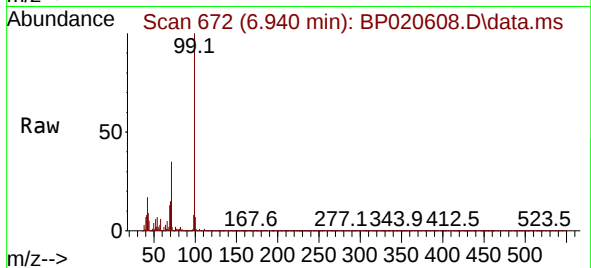
Tgt Ion:112 Resp: 215834  
Ion Ratio Lower Upper  
112 100  
64 58.8 50.1 75.1  
63 29.8 25.7 38.5





#7  
Phenol-d6  
Concen: 13.345 ng  
RT: 6.940 min Scan# 61  
Delta R.T. 0.006 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

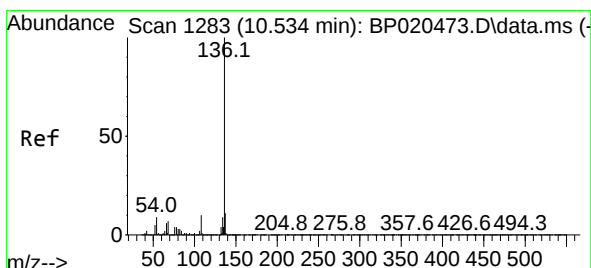
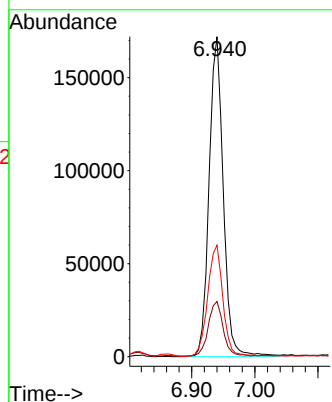
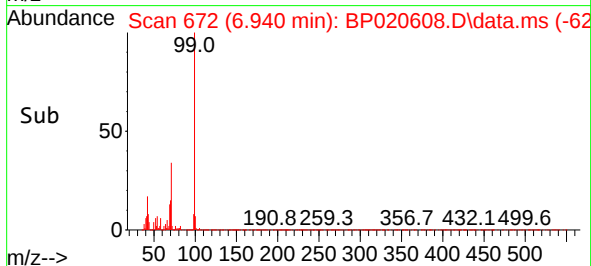
Instrument :  
BNA\_P  
ClientSampleId :  
HR-04-061124



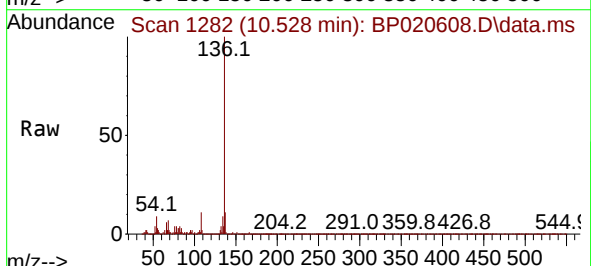
Tgt Ion: 99 Resp: 269215  
Ion Ratio Lower Upper  
99 100  
42 17.3 15.0 22.4  
71 34.9 27.3 40.9

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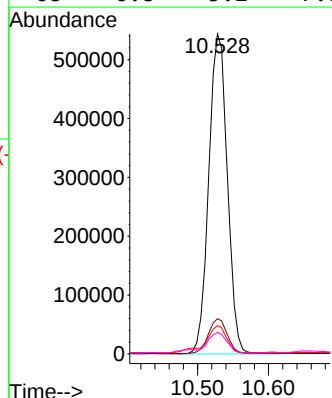
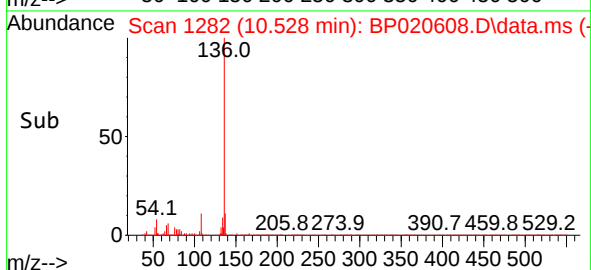
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024

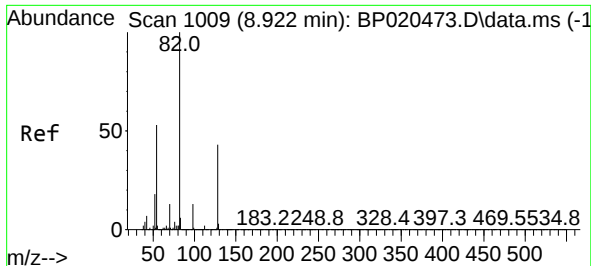


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.528 min Scan# 1282  
Delta R.T. -0.006 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24



Tgt Ion:136 Resp: 988347  
Ion Ratio Lower Upper  
136 100  
137 11.0 9.0 13.4  
54 8.8 7.4 11.0  
68 6.8 5.2 7.8





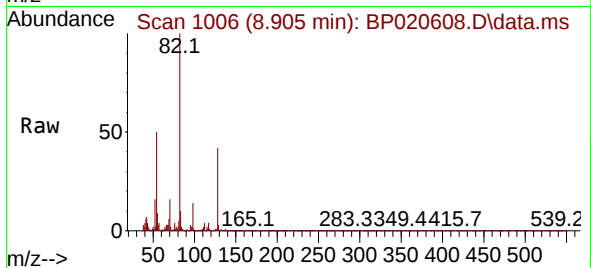
#23  
Nitrobenzene-d5  
Concen: 9.546 ng  
RT: 8.905 min Scan# 1006  
Delta R.T. -0.018 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

Instrument :

BNA\_P

ClientSampleId :

HR-04-061124

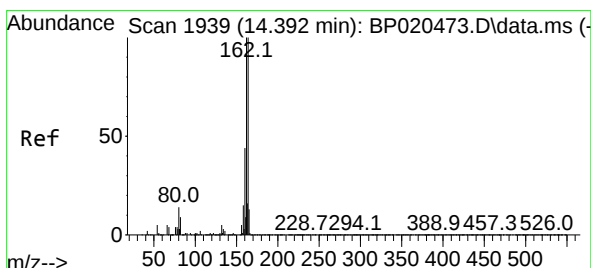
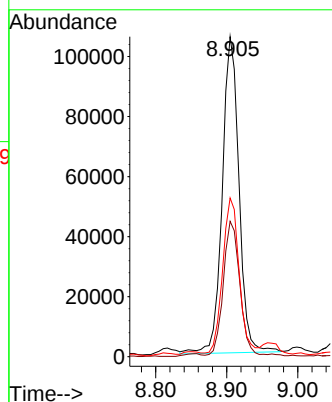
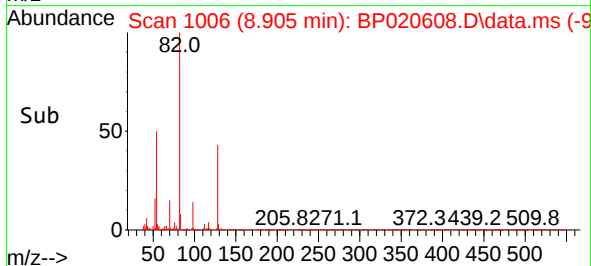


Tgt Ion: 82 Resp: 172352  
Ion Ratio Lower Upper  
82 100  
128 42.3 34.2 51.4  
54 49.6 42.7 64.1

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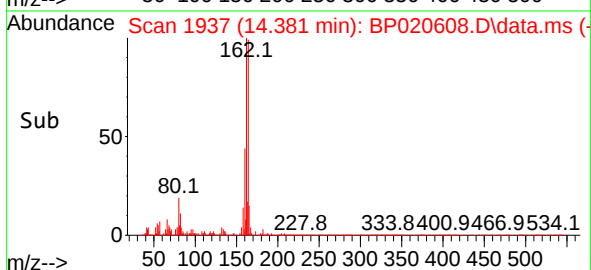
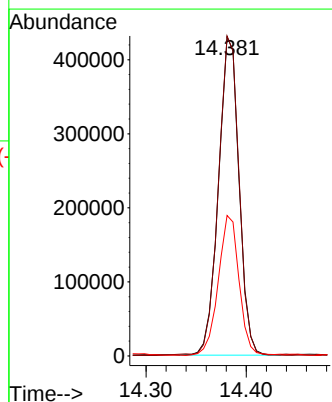
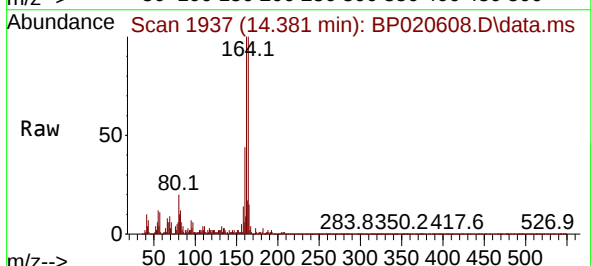
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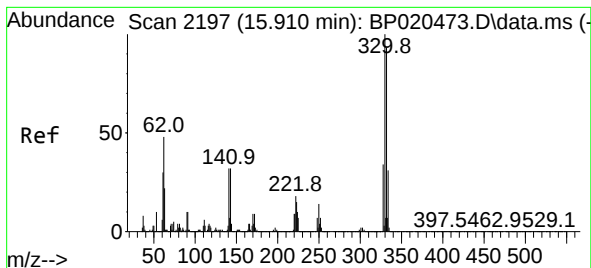
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.381 min Scan# 1937  
Delta R.T. -0.011 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

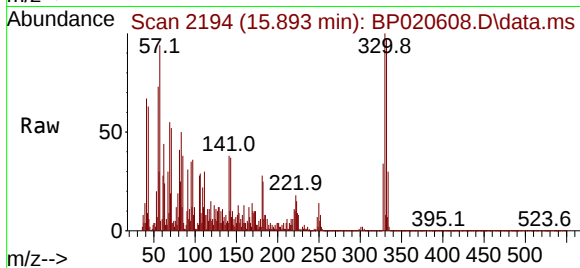
Tgt Ion:164 Resp: 610549  
Ion Ratio Lower Upper  
164 100  
162 100.3 80.3 120.5  
160 44.0 35.4 53.2





#42  
2,4,6-Tribromophenol  
Concen: 18.018 ng  
RT: 15.893 min Scan# 2197  
Delta R.T. -0.018 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

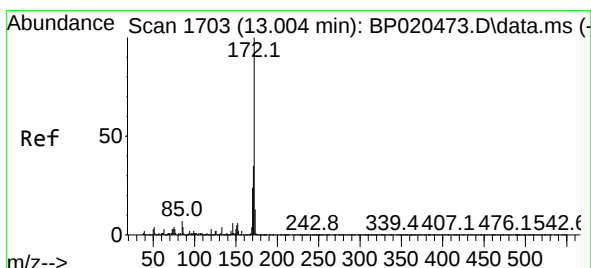
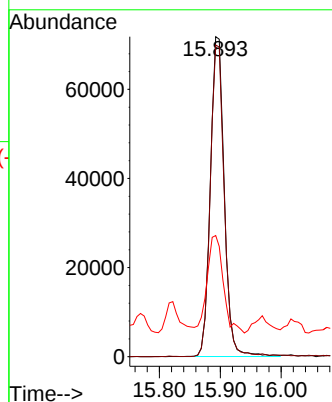
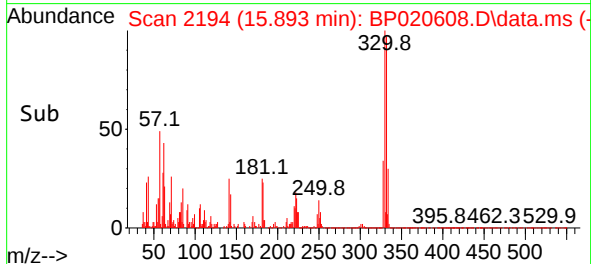
Instrument :  
BNA\_P  
ClientSampleId :  
HR-04-061124



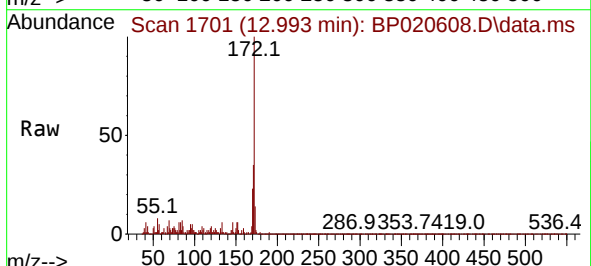
Tgt Ion: 330 Resp: 114170  
Ion Ratio Lower Upper  
330 100  
332 97.1 76.6 114.8  
141 35.4 27.1 40.7

Manual Integrations  
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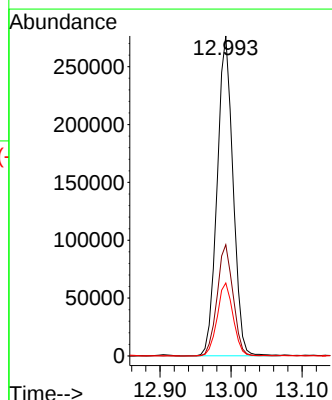
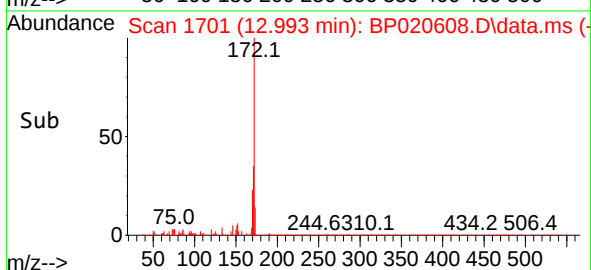
Reviewed By : Jagrut Upadhyay 06/14/2024  
Supervised By : mohammad ahmed 06/15/2024

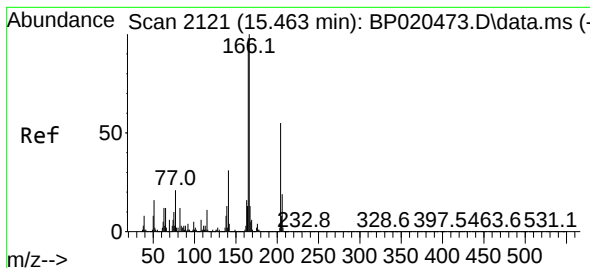


#45  
2-Fluorobiphenyl  
Concen: 10.431 ng  
RT: 12.993 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24



Tgt Ion: 172 Resp: 427222  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.4 42.6  
170 22.8 18.9 28.3





#58

Fluorene

Concen: 2.821 ng

RT: 15.451 min Scan# 2119

Delta R.T. -0.012 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

Instrument :

BNA\_P

ClientSampleId :

HR-04-061124

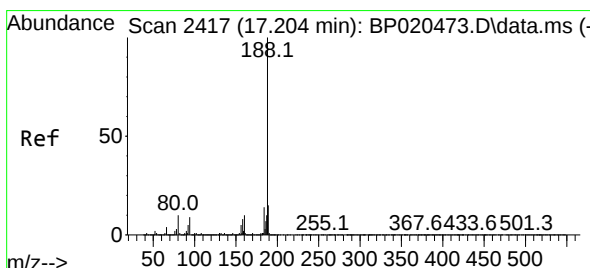
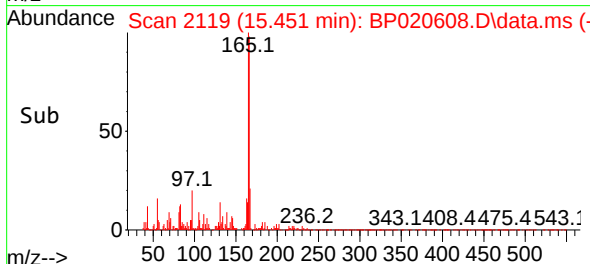
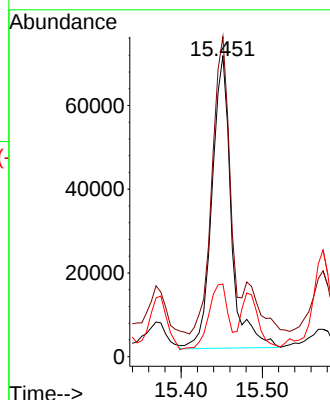
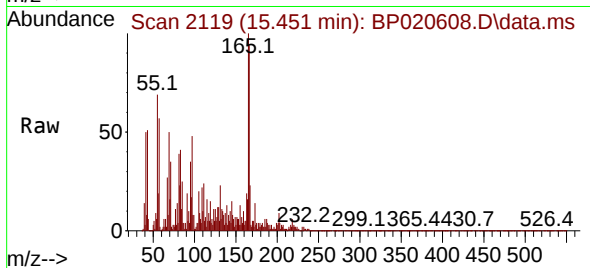
Tgt Ion:166 Resp: 11503

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 106.3 | 78.2  | 117.4 |
| 167 | 24.1  | 10.7  | 16.1  |

Manual Integrations

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Supervised By :mohammad ahmed 06/15/2024



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.192 min Scan# 2415

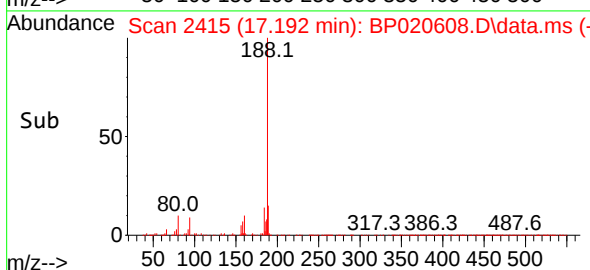
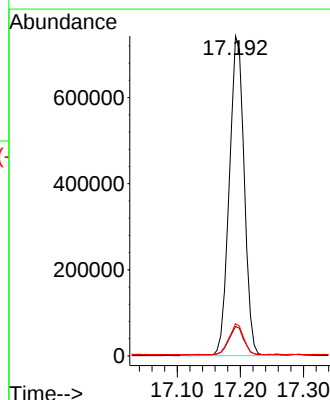
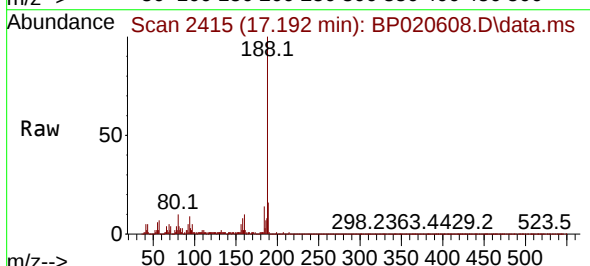
Delta R.T. -0.012 min

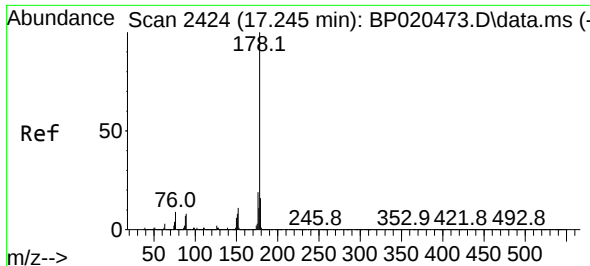
Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

Tgt Ion:188 Resp: 1215582

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 9.2   | 7.2   | 10.8  |
| 80  | 10.1  | 8.1   | 12.1  |





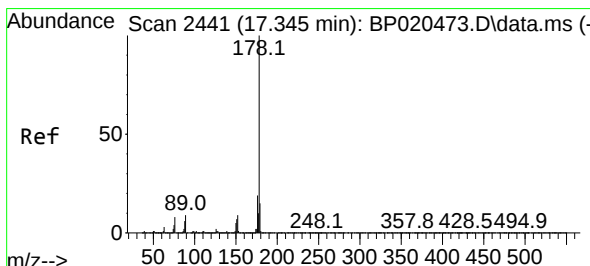
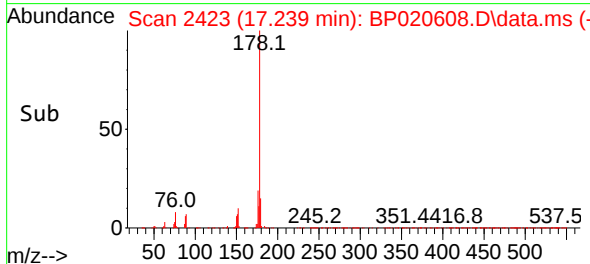
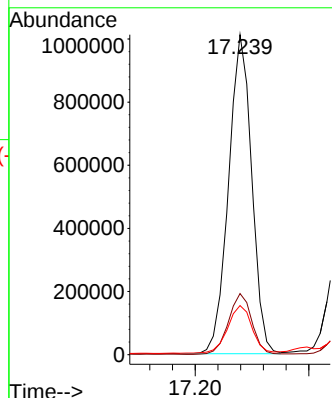
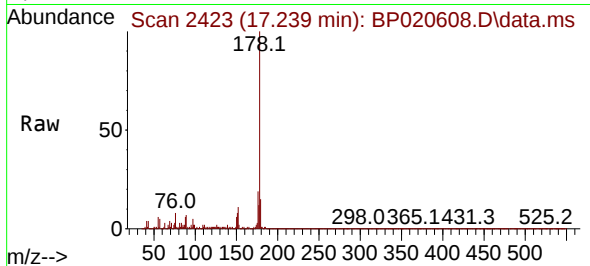
#71  
Phenanthrene  
Concen: 23.923 ng  
RT: 17.239 min Scan# 2424  
Delta R.T. -0.006 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

Instrument :  
BNA\_P  
ClientSampleId :  
HR-04-061124

Tgt Ion:178 Resp: 1429520  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.4 23.2  
179 15.4 12.5 18.7

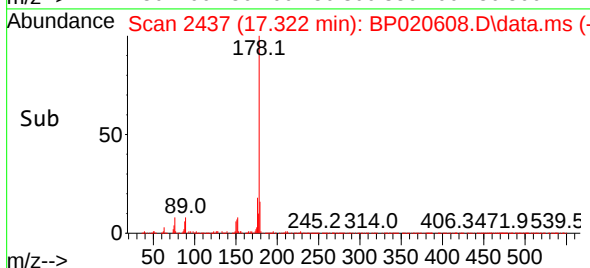
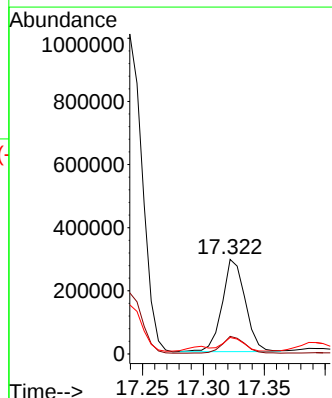
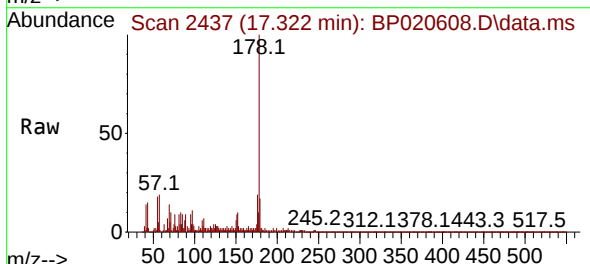
Manual Integrations  
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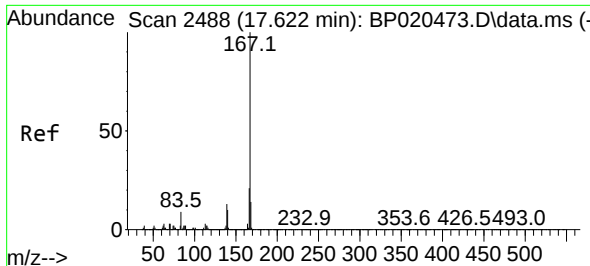
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#72  
Anthracene  
Concen: 6.584 ng  
RT: 17.322 min Scan# 2437  
Delta R.T. -0.023 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

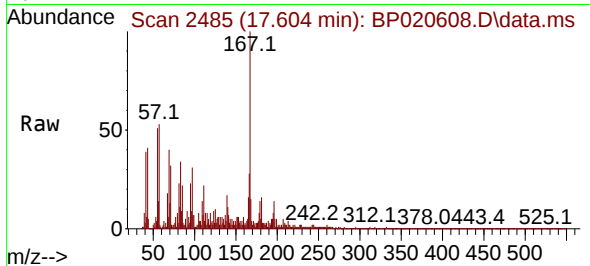
Tgt Ion:178 Resp: 386031  
Ion Ratio Lower Upper  
178 100  
176 18.6 14.8 22.2  
179 17.4 12.2 18.4





#73  
 Carbazole  
 Concen: 3.192 ng  
 RT: 17.604 min Scan# 2485  
 Delta R.T. -0.018 min  
 Lab File: BP020608.D  
 Acq: 12 Jun 2024 20:24

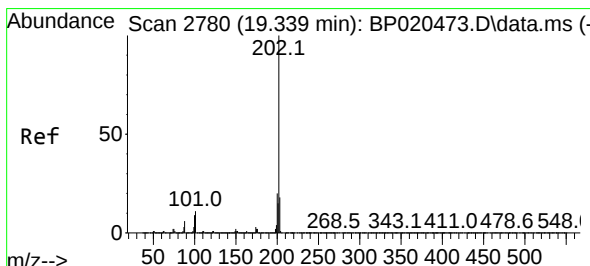
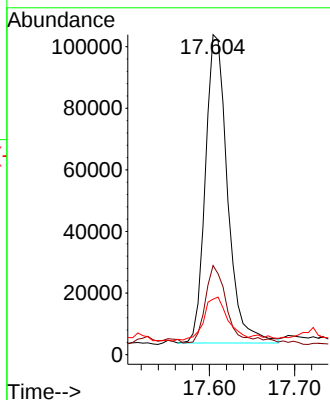
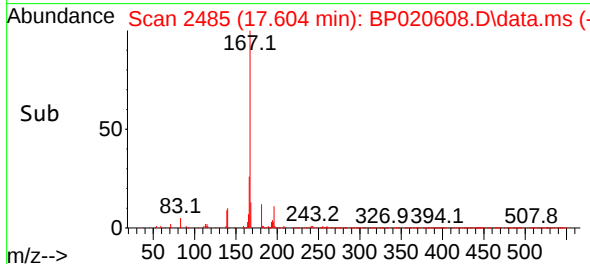
Instrument :  
 BNA\_P  
 ClientSampleId :  
 HR-04-061124



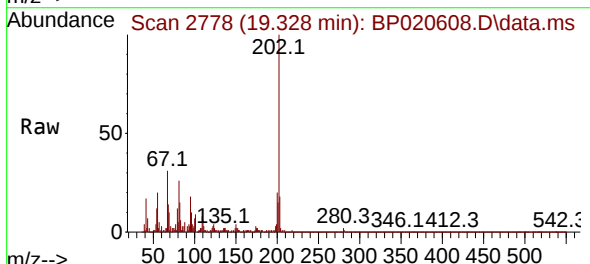
Tgt Ion:167 Resp: 181052  
 Ion Ratio Lower Upper  
 167 100  
 166 27.8 17.1 25.7  
 139 17.4 10.5 15.7

Manual Integrations  
 APPROVED

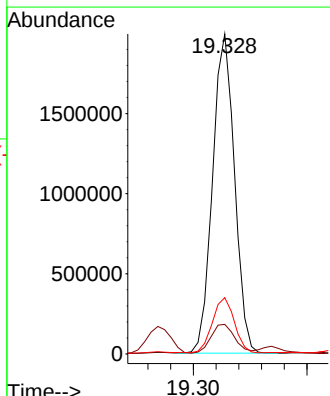
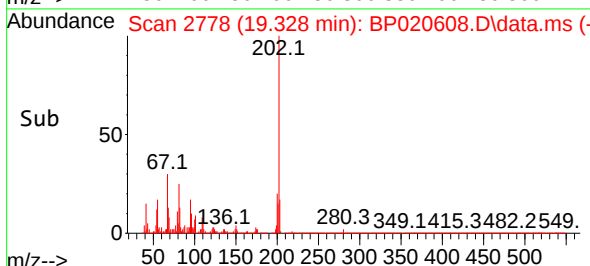
Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/15/2024

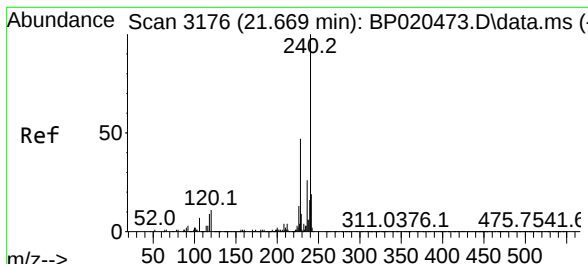


#75  
 Fluoranthene  
 Concen: 37.744 ng  
 RT: 19.328 min Scan# 2778  
 Delta R.T. -0.012 min  
 Lab File: BP020608.D  
 Acq: 12 Jun 2024 20:24



Tgt Ion:202 Resp: 2668178  
 Ion Ratio Lower Upper  
 202 100  
 101 9.2 0.0 31.4  
 203 17.6 0.0 37.7





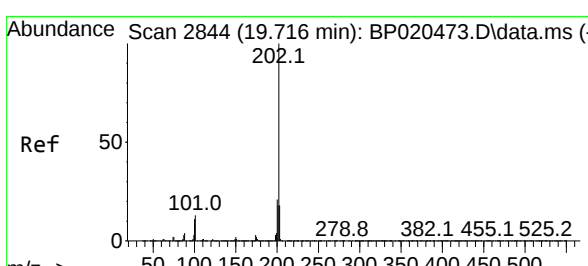
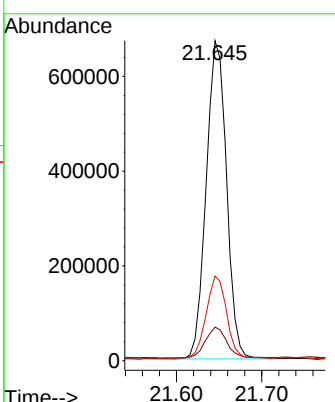
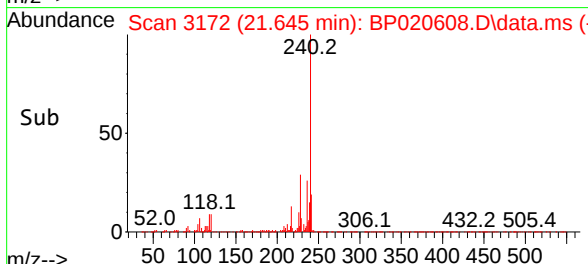
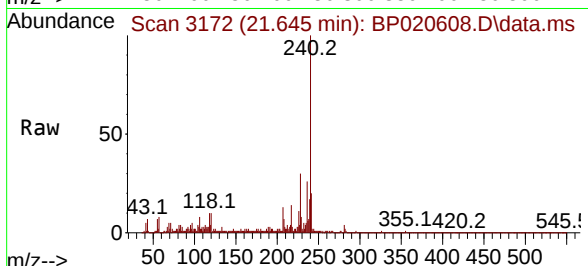
#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 21.645 min Scan# 3172  
 Delta R.T. -0.023 min  
 Lab File: BP020608.D  
 Acq: 12 Jun 2024 20:24

Instrument : BNA\_P  
 ClientSampleId : HR-04-061124

Tgt Ion: 240 Resp: 1114058

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 240 | 100   |       |       |
| 120 | 10.5  | 8.5   | 12.7  |
| 236 | 26.4  | 20.5  | 30.7  |

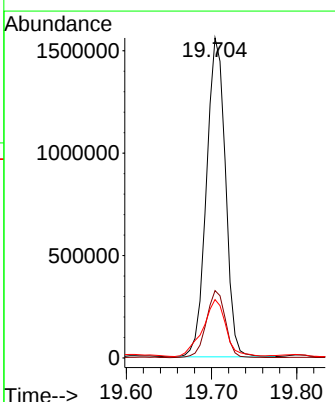
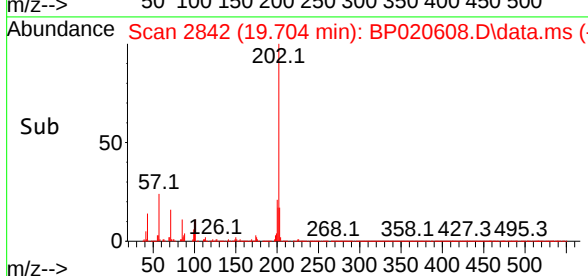
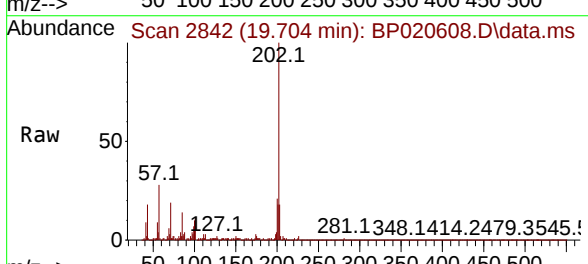
Manual Integrations  
**APPROVED**  
 Reviewed By : Jagrut Upadhyay 06/14/2024  
 Supervised By : mohammad ahmed 06/15/2024

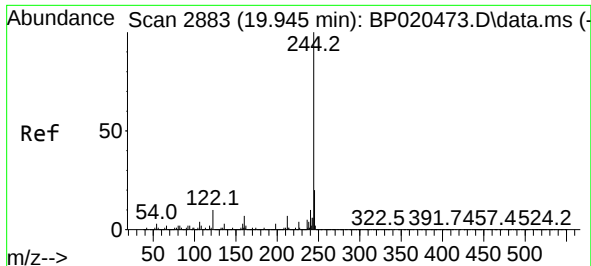


#78  
 Pyrene  
 Concen: 28.777 ng  
 RT: 19.704 min Scan# 2842  
 Delta R.T. -0.012 min  
 Lab File: BP020608.D  
 Acq: 12 Jun 2024 20:24

Tgt Ion: 202 Resp: 2411473

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 21.1  | 16.9  | 25.3  |
| 203 | 18.2  | 14.1  | 21.1  |





#79  
 Terphenyl-d14  
 Concen: 9.470 ng  
 RT: 19.928 min Scan# 21  
 Delta R.T. -0.017 min  
 Lab File: BP020608.D  
 Acq: 12 Jun 2024 20:24

Instrument :

BNA\_P

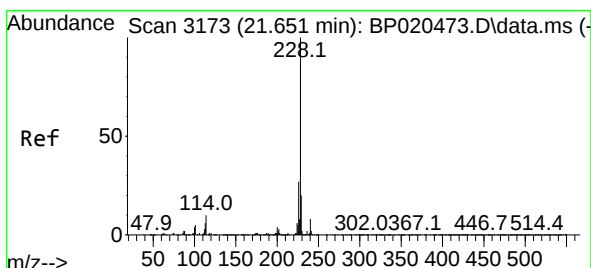
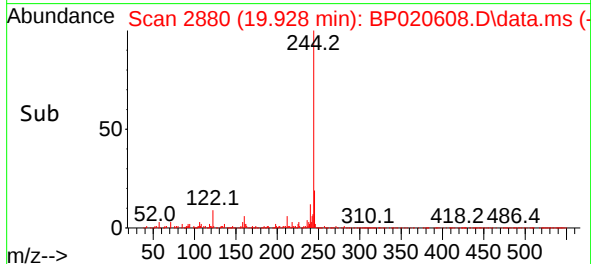
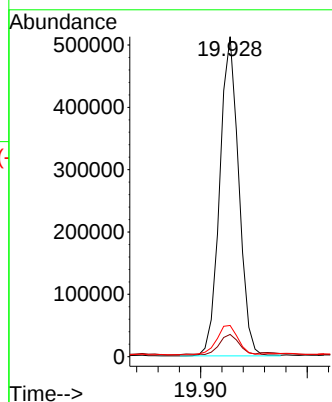
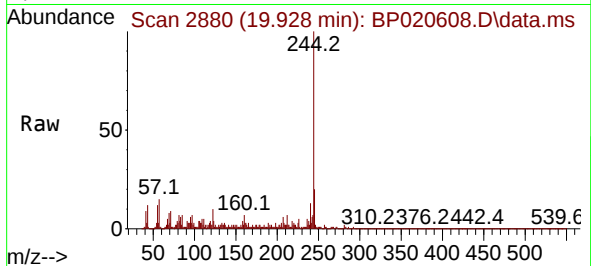
ClientSampleId :

HR-04-061124

Tgt Ion:244 Resp: 633730  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.8 8.8  
 122 9.7 8.2 12.2

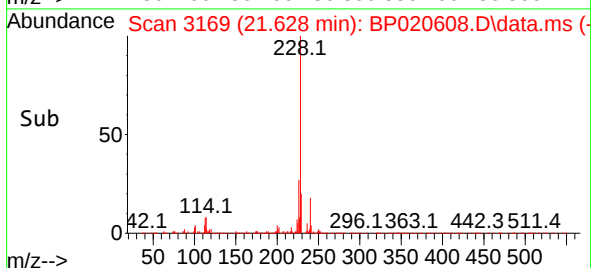
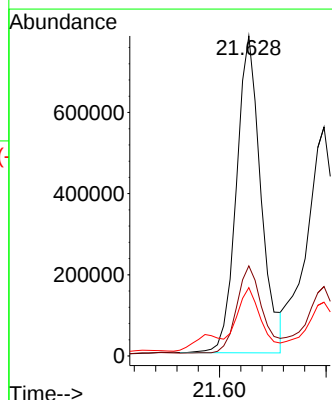
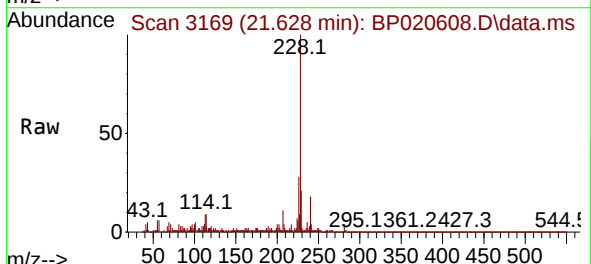
Manual Integrations  
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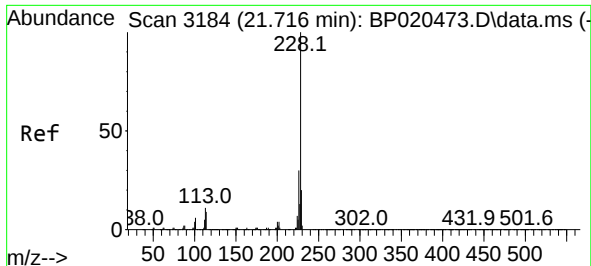
Reviewed By :Jagrut Upadhyay 06/14/2024  
 Supervised By :mohammad ahmed 06/15/2024



#81  
 Benzo(a)anthracene  
 Concen: 17.029 ng  
 RT: 21.628 min Scan# 3169  
 Delta R.T. -0.023 min  
 Lab File: BP020608.D  
 Acq: 12 Jun 2024 20:24

Tgt Ion:228 Resp: 1249168  
 Ion Ratio Lower Upper  
 228 100  
 226 28.1 21.7 32.5  
 229 21.4 15.8 23.6





#83

Chrysene

Concen: 15.887 ng

RT: 21.698 min Scan# 3184

Delta R.T. -0.018 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

Instrument :

BNA\_P

ClientSampleId :

HR-04-061124

Tgt Ion:228 Resp: 109808

Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

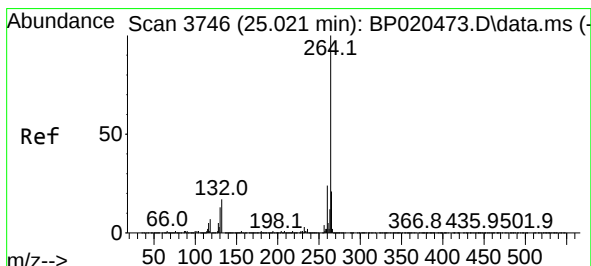
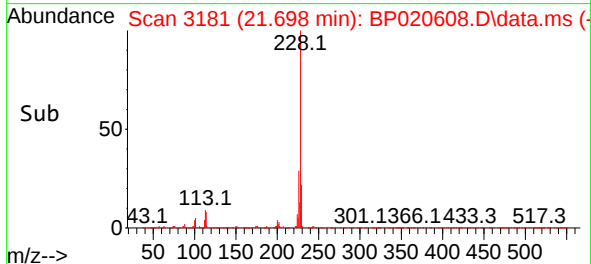
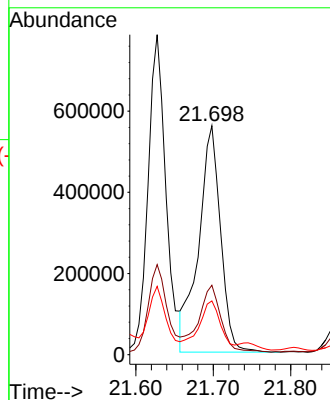
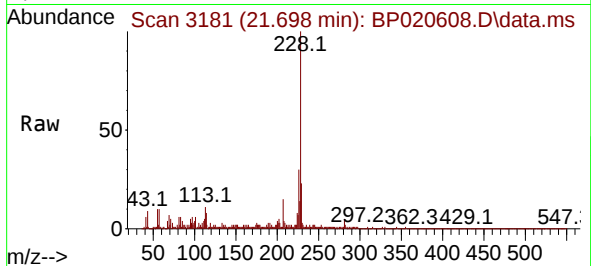
229 23.5 15.7 23.5

Manual Integrations

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Reviewed By :Jagrut Upadhyay 06/14/2024

Supervised By :mohammad ahmed 06/15/2024



#86

Perylene-d12

Concen: 20.000 ng

RT: 25.021 min Scan# 3746

Delta R.T. 0.000 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

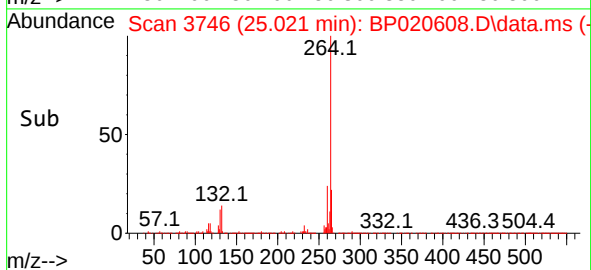
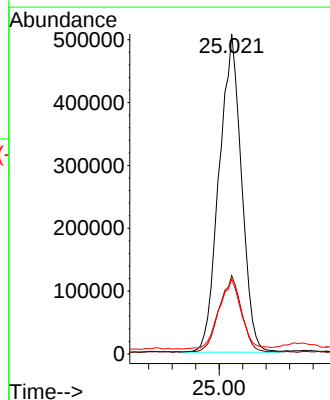
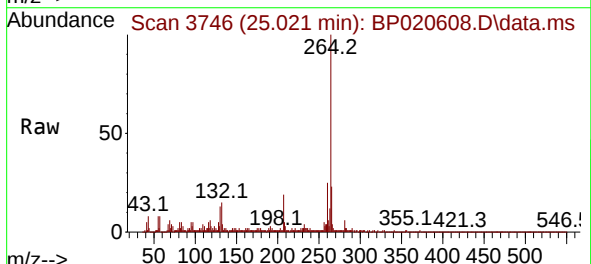
Tgt Ion:264 Resp: 1337218

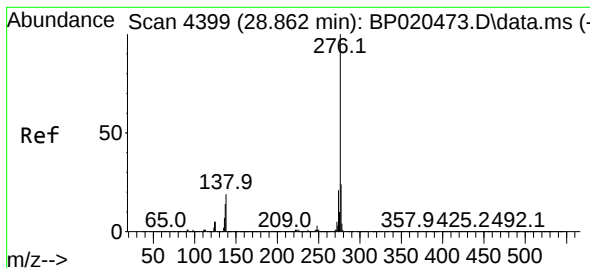
Ion Ratio Lower Upper

264 100

260 24.5 18.9 28.3

265 23.3 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.942 ng

RT: 28.851 min Scan# 4399

Delta R.T. -0.012 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

Instrument :

BNA\_P

ClientSampleId :

HR-04-061124

Tgt Ion:276 Resp: 808404

Ion Ratio Lower Upper

276 100

138 18.2 12.8 19.2

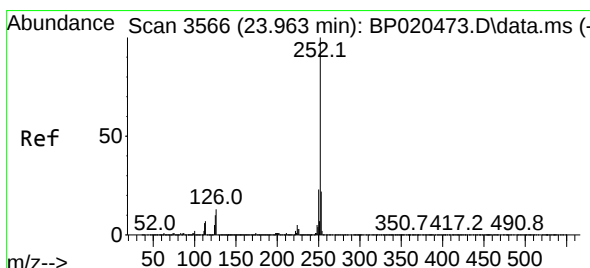
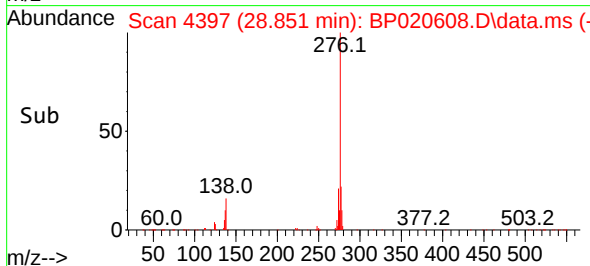
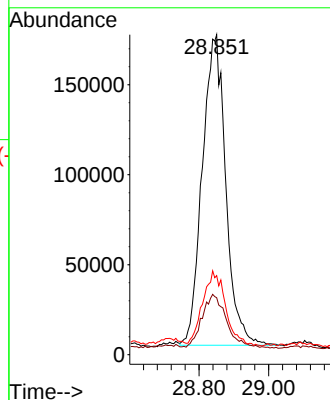
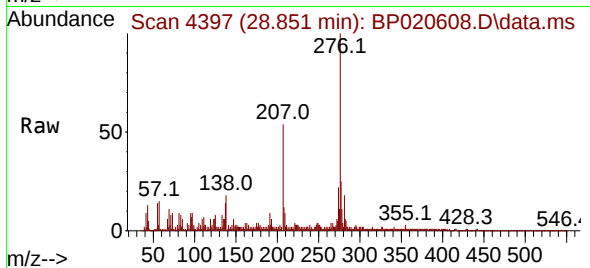
277 23.6 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024

Supervised By :mohammad ahmed 06/15/2024



#88

Benzo(b)fluoranthene

Concen: 18.902 ng

RT: 23.957 min Scan# 3565

Delta R.T. -0.006 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

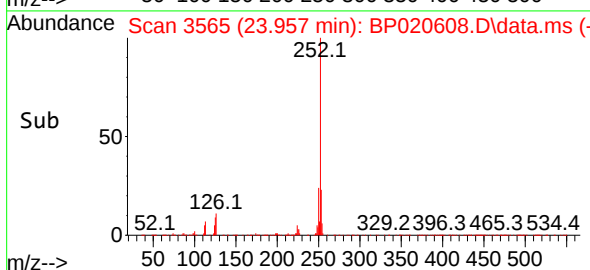
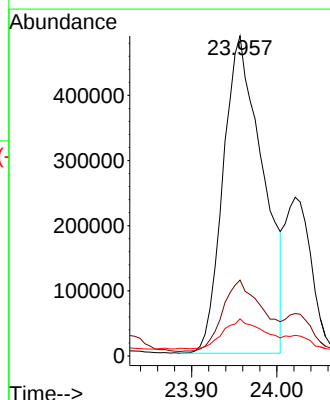
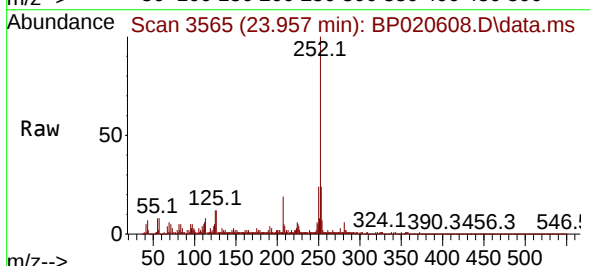
Tgt Ion:252 Resp: 1574644

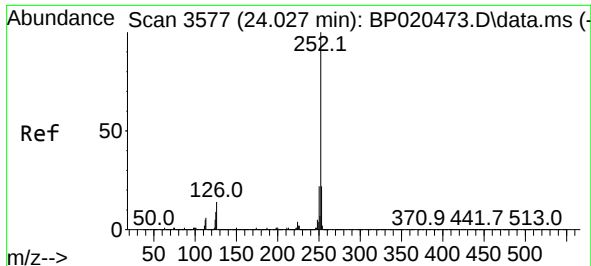
Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

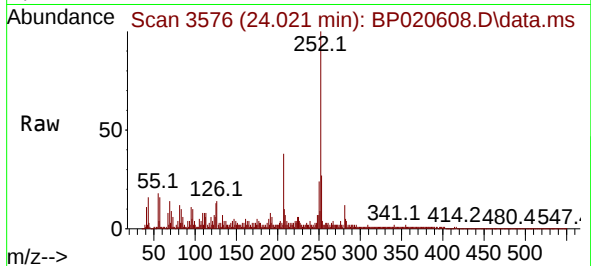
125 11.6 8.0 12.0





#89  
Benzo(k)fluoranthene  
Concen: 6.291 ng m  
RT: 24.021 min Scan# 3576  
Delta R.T. -0.006 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

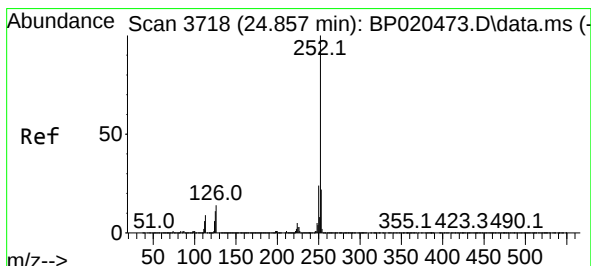
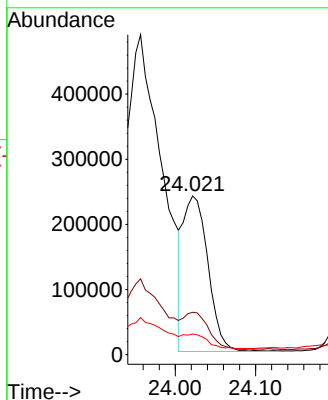
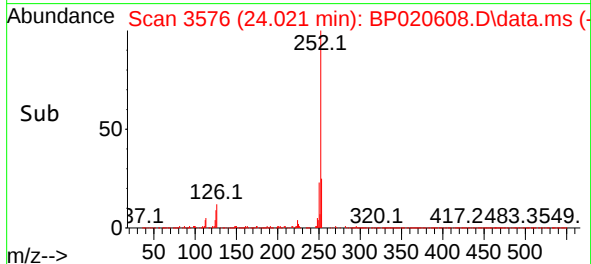
Instrument :  
BNA\_P  
ClientSampleId :  
HR-04-061124



Tgt Ion:252 Resp: 511145  
Ion Ratio Lower Upper  
252 100  
253 26.7 17.7 26.5  
125 13.0 7.8 11.6

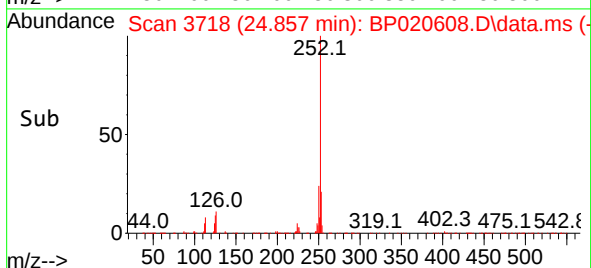
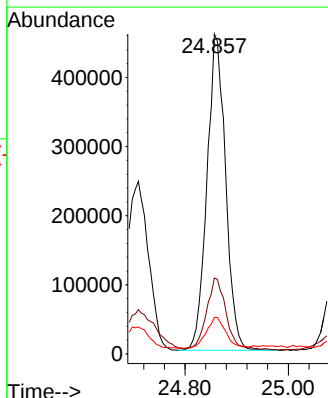
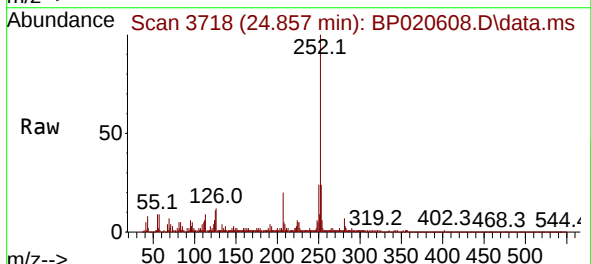
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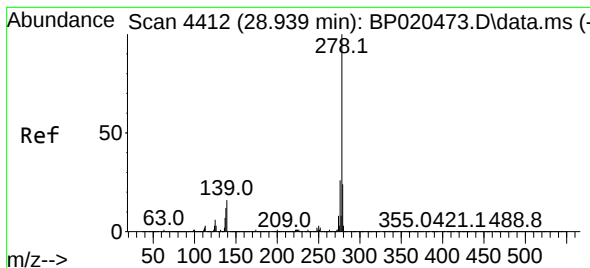
Reviewed By :Jagrut Upadhyay 06/14/2024  
Supervised By :mohammad ahmed 06/15/2024



#90  
Benzo(a)pyrene  
Concen: 16.555 ng  
RT: 24.857 min Scan# 3718  
Delta R.T. 0.000 min  
Lab File: BP020608.D  
Acq: 12 Jun 2024 20:24

Tgt Ion:252 Resp: 1142138  
Ion Ratio Lower Upper  
252 100  
253 23.8 17.4 26.2  
125 11.5 8.9 13.3





#91

Dibenzo(a,h)anthracene

Concen: 2.842 ng m

RT: 28.915 min Scan# 4412

Delta R.T. -0.023 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

Instrument :

BNA\_P

ClientSampleId :

HR-04-061124

Tgt Ion:278 Resp: 19273

Ion Ratio Lower Upper

278 100

139 24.7 13.0 19.4

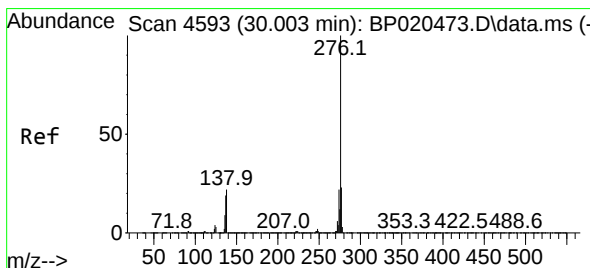
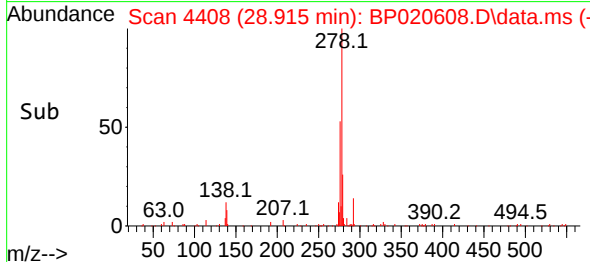
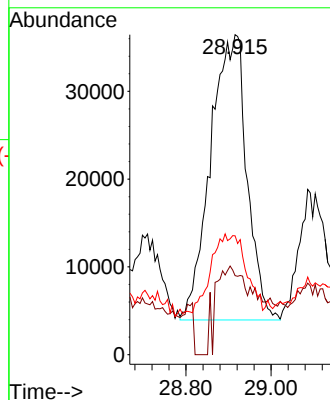
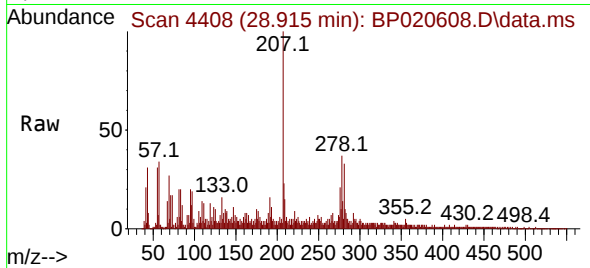
279 37.2 19.2 28.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 06/14/2024

Supervised By :mohammad ahmed 06/15/2024



#92

Benzo(g,h,i)perylene

Concen: 11.035 ng

RT: 30.045 min Scan# 4600

Delta R.T. 0.041 min

Lab File: BP020608.D

Acq: 12 Jun 2024 20:24

Tgt Ion:276 Resp: 748121

Ion Ratio Lower Upper

276 100

277 26.4 18.7 28.1

138 19.9 17.7 26.5

