

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP101122\  
 Data File : BP012102.D  
 Acq On : 13 Oct 2022 03:50  
 Operator : CG/JU  
 Sample : N4923-06DL 10X  
 Misc :  
 ALS Vial : 72 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 E10056DL

Manual Integrations  
 APPROVED

Reviewed By :Jagrut Upadhyay 10/13/2022  
 Supervised By :mohammad ahmed 10/14/2022

Quant Time: Oct 13 05:59:12 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP101122.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 12 23:03:21 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.851  | 152  | 297723   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.657 | 136  | 1184942  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.498 | 164  | 653816   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.257 | 188  | 1332251  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.345 | 240  | 1456864  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.762 | 264  | 1581332  | 20.000 | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 0.000  | 96   | 0d       | 0.000  | ng/uL  |          |
| 4) Pyridine-d5                | 0.000  | 84   | 0d       | 0.000  | ng/u1  |          |
| 7) Phenol-d5                  | 7.028  | 99   | 14082    | 0.588  | ng/u1  | 0.01     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.187  | 67   | 39238    | 2.887  | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.381  | 132  | 42093    | 2.215  | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.569  | 113  | 24486    | 1.331  | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.022  | 128  | 25541    | 3.052  | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.740  | 143  | 22636    | 2.668  | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.281 | 165  | 41924    | 2.549  | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.804 | 131  | 68709m   | 2.835  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.910 | 166  | 149160   | 3.602  | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.192 | 160  | 159244   | 3.110  | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 0.000  | 143  | 0d       | 0.000  | ng/u1  |          |
| 60) Fluorene-d10              | 15.492 | 176  | 140171   | 3.742  | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.622 | 200  | 10166    | 1.445  | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.357 | 188  | 218137   | 3.771  | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.592 | 212  | 271672   | 3.640  | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.604 | 264  | 284764   | 3.704  | ng/u1  | 0.00     |
|                               |        |      |          |        |        |          |
| Target Compounds              |        |      |          |        | Qvalue |          |
| 30) Naphthalene               | 10.704 | 128  | 3342579  | 53.382 | ng/u1  | 100      |
| 36) 2-Methylnaphthalene       | 12.316 | 142  | 296627   | 7.357  | ng/u1  | 99       |
| 37) 1-Methylnaphthalene       | 12.540 | 142  | 871487   | 21.583 | ng/u1  | 100      |
| 43) 1,1'-Biphenyl             | 13.328 | 154  | 114850   | 2.327  | ng/u1  | 99       |
| 50) Acenaphthylene            | 14.222 | 152  | 132602   | 2.289  | ng/u1# | 95       |
| 52) Acenaphthene              | 14.563 | 153  | 732702   | 17.765 | ng/u1  | 99       |
| 56) Dibenzofuran              | 14.898 | 168  | 594087   | 10.658 | ng/u1  | 99       |
| 61) Fluorene                  | 15.551 | 166  | 584480   | 13.358 | ng/u1  | 97       |
| 72) Phenanthrene              | 17.298 | 178  | 1193475  | 16.473 | ng/u1  | 99       |
| 74) Anthracene                | 17.392 | 178  | 551922   | 7.698  | ng/u1  | 99       |
| 77) Carbazole                 | 17.663 | 167  | 610255   | 9.543  | ng/u1  | 99       |
| 80) Fluoranthene              | 19.269 | 202  | 695659   | 7.607  | ng/u1  | 99       |
| 82) Pyrene                    | 19.621 | 202  | 603635   | 6.237  | ng/u1  | 98       |
| 85) Benzo(a)anthracene        | 21.333 | 228  | 227007   | 2.475  | ng/u1  | 95       |
| 87) Chrysene                  | 21.380 | 228  | 199620   | 2.261  | ng/u1  | 96       |
| 90) Benzo(b)fluoranthene      | 23.027 | 252  | 172830   | 1.727  | ng/u1# | 94       |
| 93) Benzo(a)pyrene            | 23.651 | 252  | 149093   | 1.670  | ng/u1# | 94       |
| -----                         |        |      |          |        |        |          |

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

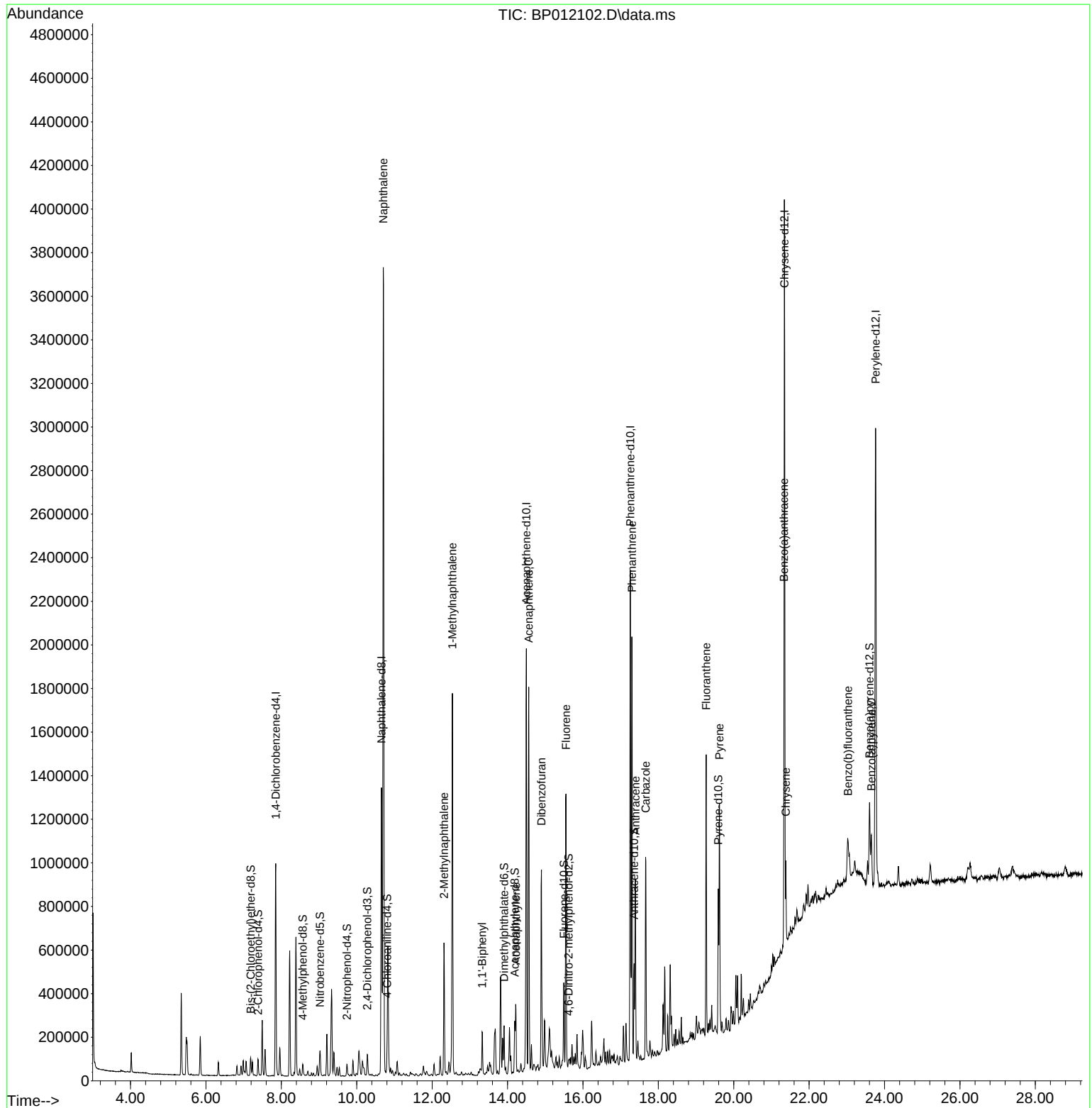
Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP101122\  
 Data File : BP012102.D  
 Acq On : 13 Oct 2022 03:50  
 Operator : CG/JU  
 Sample : N4923-06DL 10X  
 Misc :  
 ALS Vial : 72 Sample Multiplier: 1

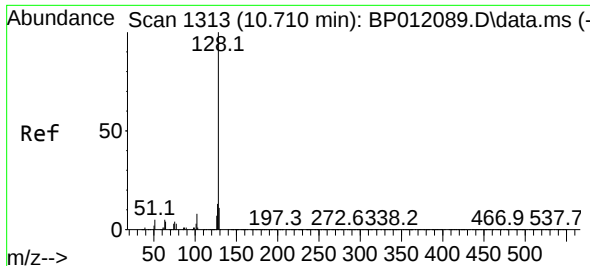
Instrument :  
 BNA\_P  
 ClientSampleId :  
 E10056DL

Quant Time: Oct 13 05:59:12 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP101122.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 12 23:03:21 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

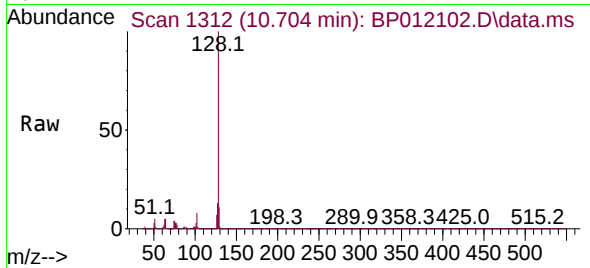
Reviewed By :Jagrut Upadhyay 10/13/2022  
 Supervised By :mohammad ahmed 10/14/2022





#30  
Naphthalene  
Concen: 53.382 ng/ul  
RT: 10.704 min Scan# 1313  
Delta R.T. -0.006 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

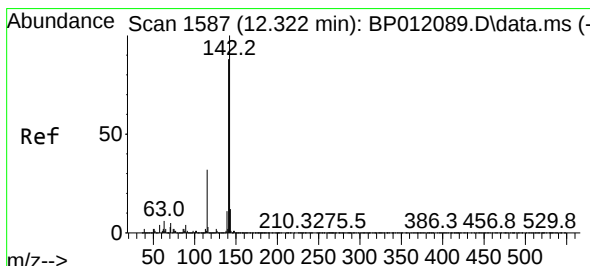
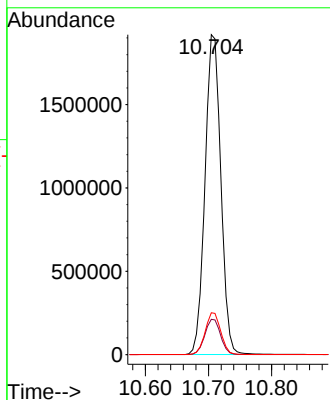
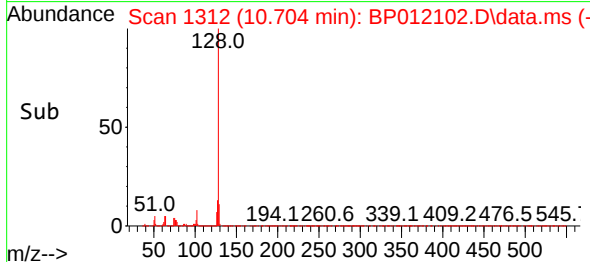
Instrument :  
BNA\_P  
ClientSampleId :  
E10056DL



Tgt Ion:128 Resp: 3342579  
Ion Ratio Lower Upper  
128 100  
129 11.0 8.9 13.3  
127 13.1 10.2 15.4

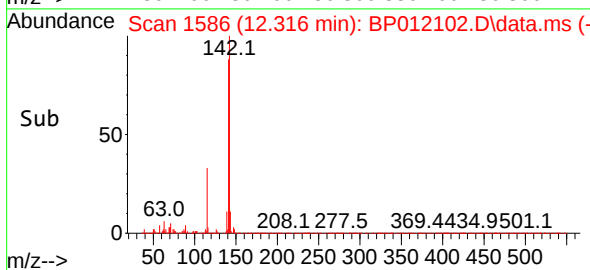
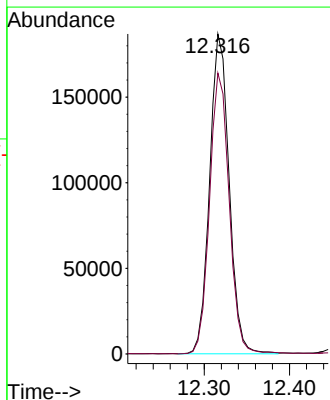
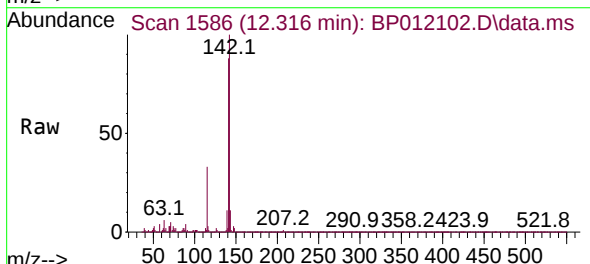
Manual Integrations  
APPROVED

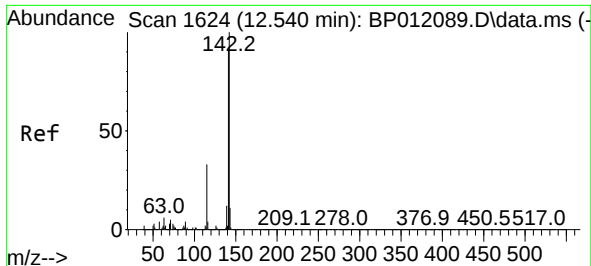
Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022



#36  
2-Methylnaphthalene  
Concen: 7.357 ng/ul  
RT: 12.316 min Scan# 1586  
Delta R.T. -0.006 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

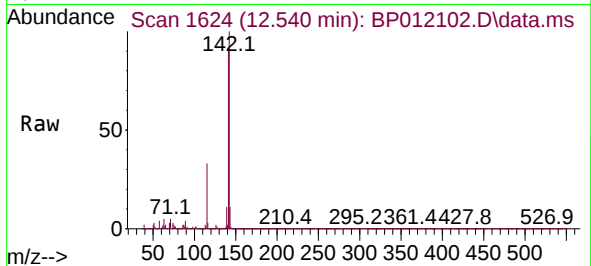
Tgt Ion:142 Resp: 296627  
Ion Ratio Lower Upper  
142 100  
141 87.8 70.7 106.1





#37  
1-Methylnaphthalene  
Concen: 21.583 ng/ul  
RT: 12.540 min Scan# 1624  
Delta R.T. -0.000 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

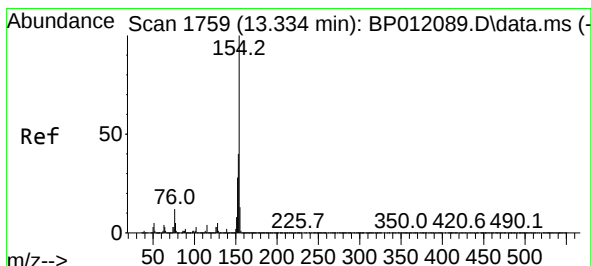
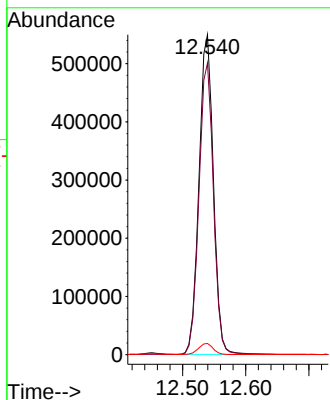
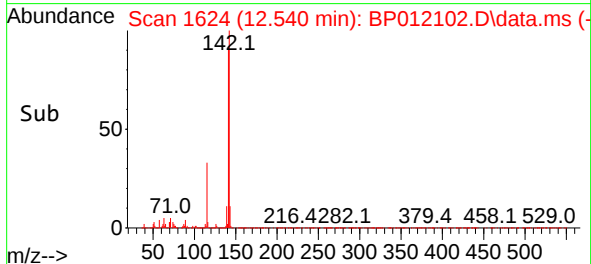
Instrument :  
BNA\_P  
ClientSampleId :  
E10056DL



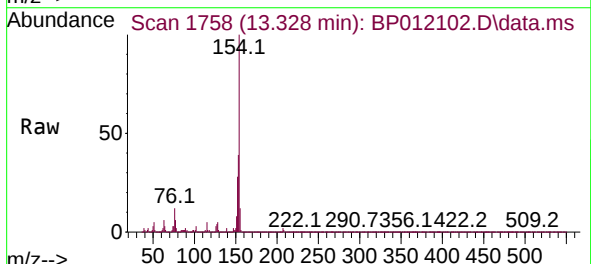
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Ion Ratio Lower Upper  
142 100  
141 91.1 72.9 109.3  
116 3.5 2.8 4.2

Manual Integrations  
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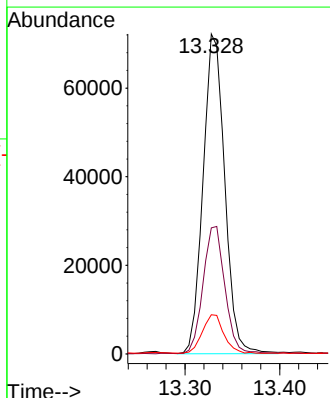
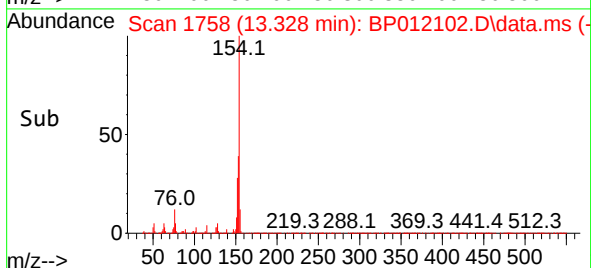
Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022

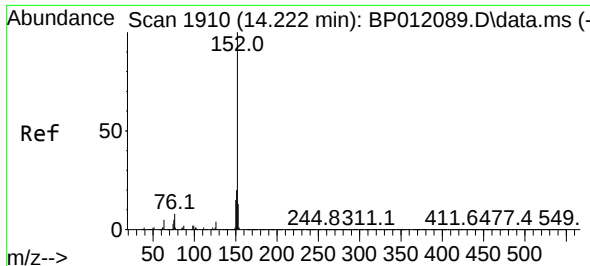


#43  
1,1'-Biphenyl  
Concen: 2.327 ng/ul  
RT: 13.328 min Scan# 1758  
Delta R.T. -0.006 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50



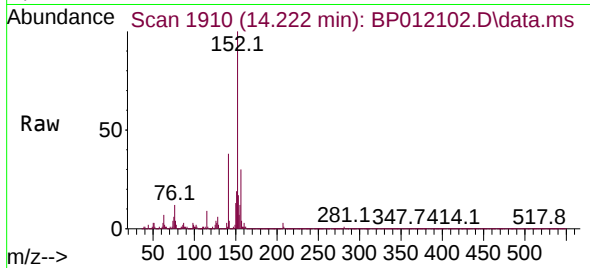
Tgt Ion:154 Resp: 114850  
Ion Ratio Lower Upper  
154 100  
153 39.4 32.2 48.2  
76 12.3 10.3 15.5





#50  
Acenaphthylene  
Concen: 2.289 ng/ul  
RT: 14.222 min Scan# 1910  
Delta R.T. -0.000 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

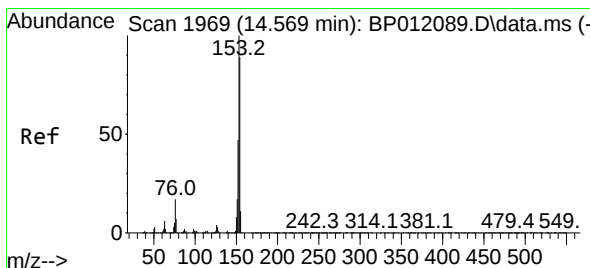
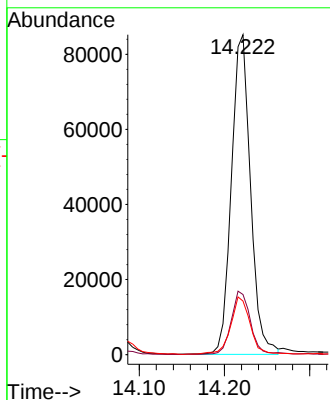
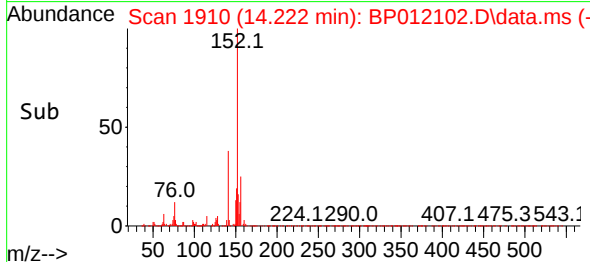
Instrument :  
BNA\_P  
Client Sample Id :  
E10056DL



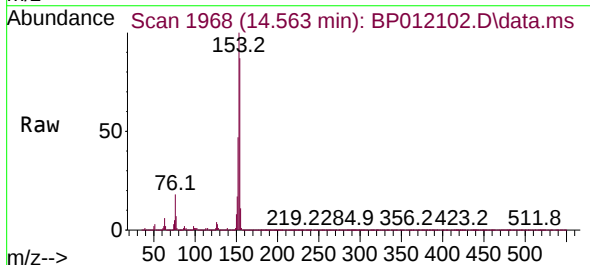
Tgt Ion:152 Resp: 132602  
Ion Ratio Lower Upper  
152 100  
151 18.8 15.7 23.5  
153 16.7 10.4 15.6

Manual Integrations  
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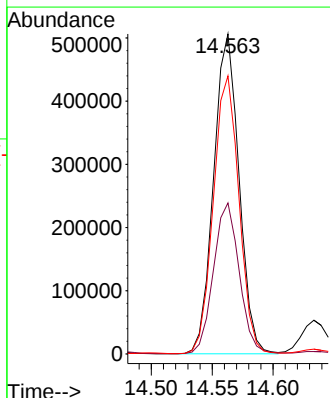
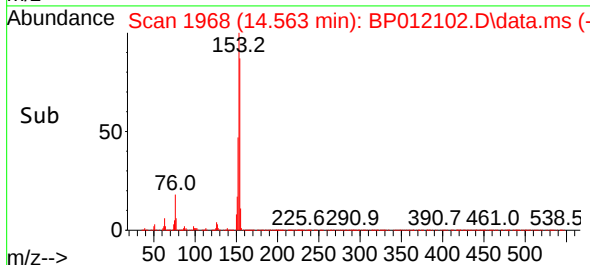
Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022

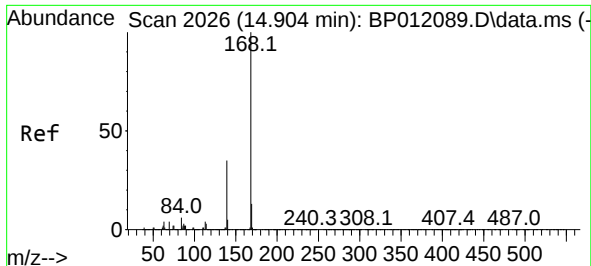


#52  
Acenaphthene  
Concen: 17.765 ng/ul  
RT: 14.563 min Scan# 1968  
Delta R.T. -0.000 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50



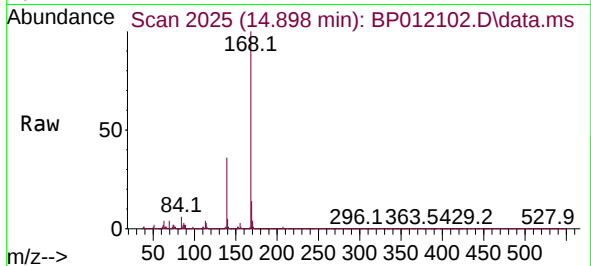
Tgt Ion:153 Resp: 732702  
Ion Ratio Lower Upper  
153 100  
152 47.2 38.2 57.2  
154 86.9 70.6 105.8





#56  
Dibenzenofuran  
Concen: 10.658 ng/ul  
RT: 14.898 min Scan# 2026  
Delta R.T. -0.000 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

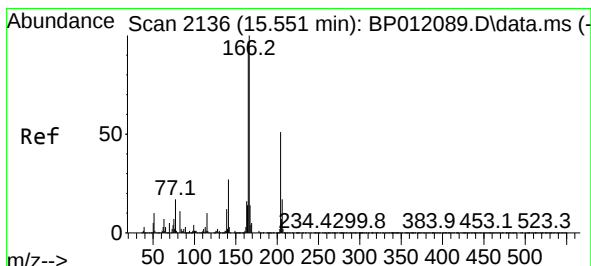
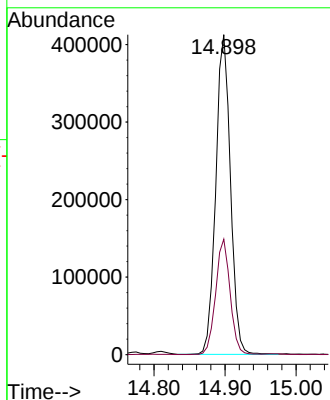
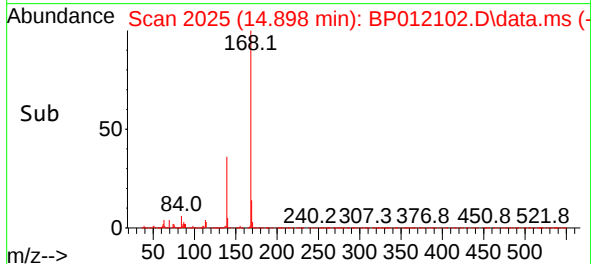
Instrument :  
BNA\_P  
ClientSampleId :  
E10056DL



Tgt Ion:168 Resp: 59408  
Ion Ratio Lower Upper  
168 100  
139 36.1 28.2 42.4

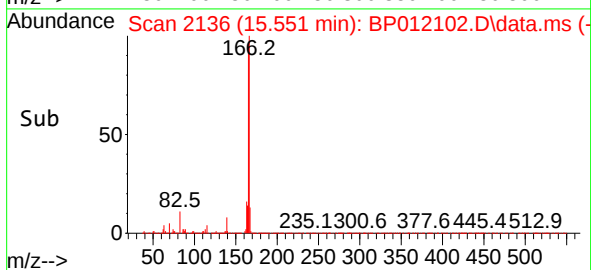
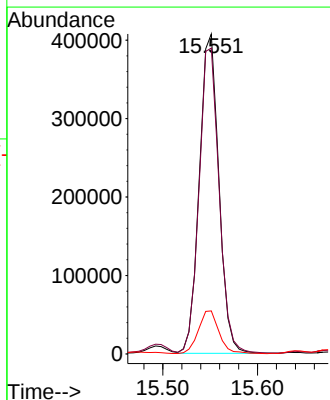
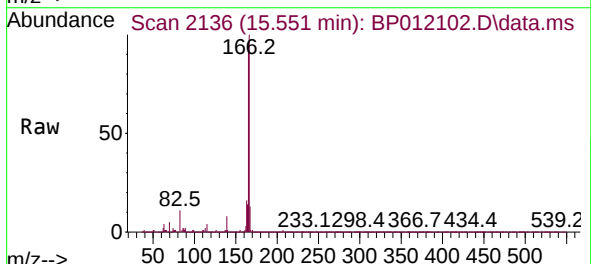
Manual Integrations  
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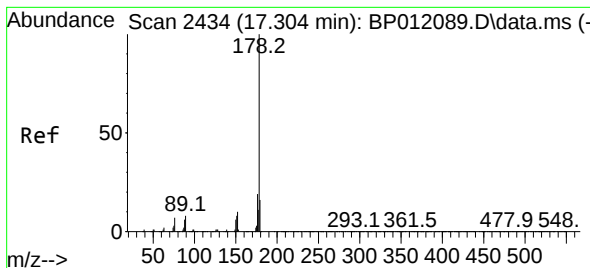
Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022



#61  
Fluorene  
Concen: 13.358 ng/ul  
RT: 15.551 min Scan# 2136  
Delta R.T. -0.000 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

Tgt Ion:166 Resp: 584480  
Ion Ratio Lower Upper  
166 100  
165 95.6 79.5 119.3  
167 13.4 10.9 16.3





#72

Phenanthrene

Concen: 16.473 ng/ul

RT: 17.298 min Scan# 2434

Delta R.T. -0.006 min

Lab File: BP012102.D

Acq: 13 Oct 2022 03:50

Instrument :

BNA\_P

ClientSampleId :

E10056DL

Tgt Ion:178 Resp: 1193475

Ion Ratio Lower Upper

178 100

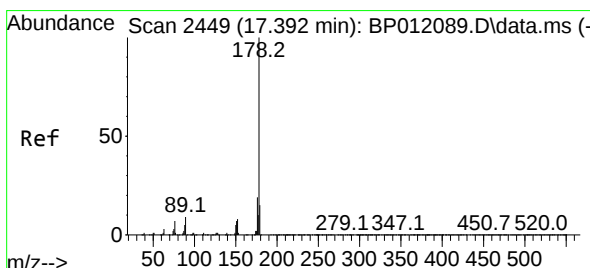
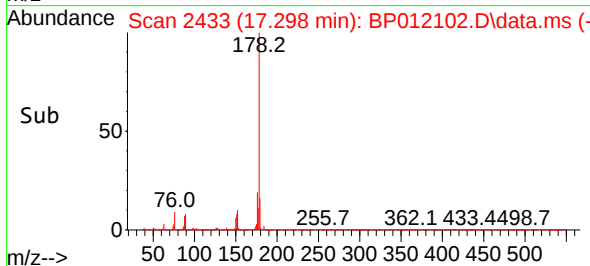
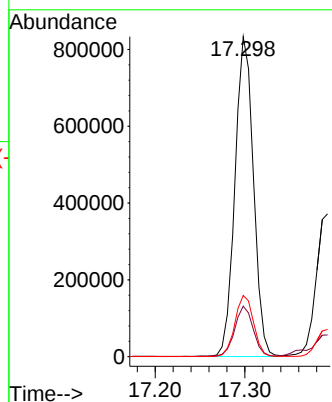
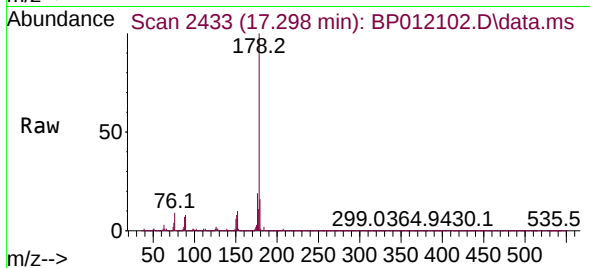
179 15.8 12.2 18.4

176 19.1 15.8 23.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022



#74

Anthracene

Concen: 7.698 ng/ul

RT: 17.392 min Scan# 2449

Delta R.T. -0.000 min

Lab File: BP012102.D

Acq: 13 Oct 2022 03:50

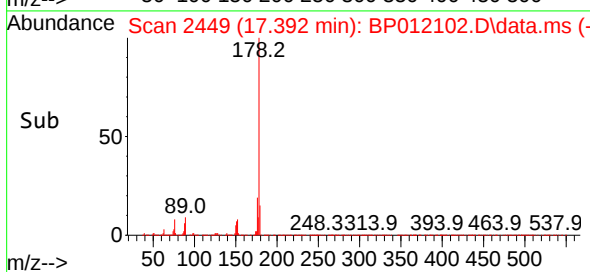
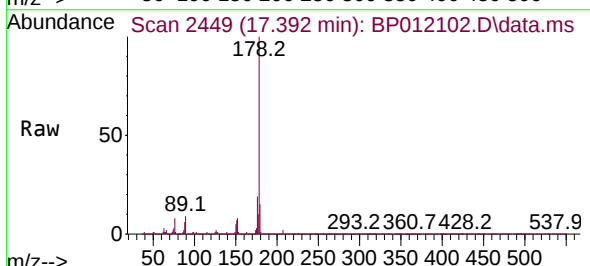
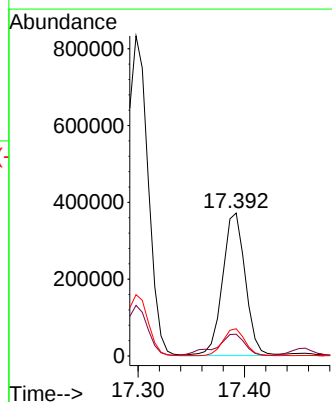
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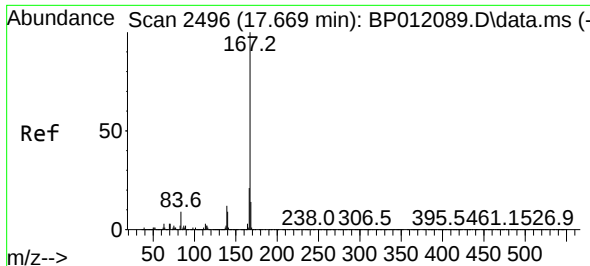
Ion Ratio Lower Upper

178 100

179 15.2 12.2 18.4

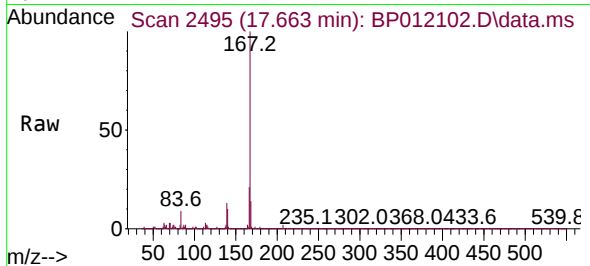
176 19.0 14.8 22.2





#77  
 Carbazole  
 Concen: 9.543 ng/ul  
 RT: 17.663 min Scan# 2495  
 Delta R.T. -0.006 min  
 Lab File: BP012102.D  
 Acq: 13 Oct 2022 03:50

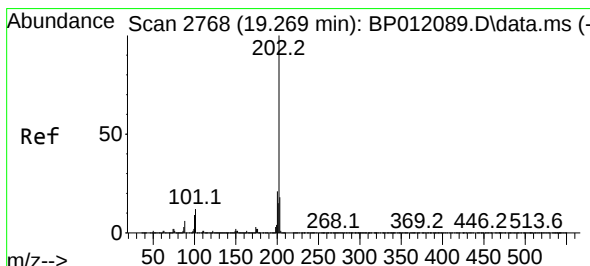
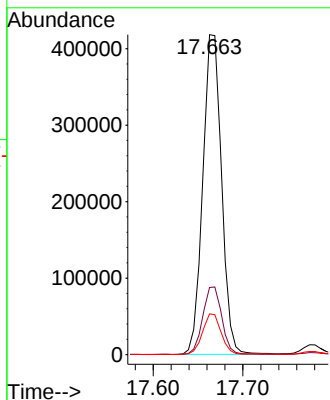
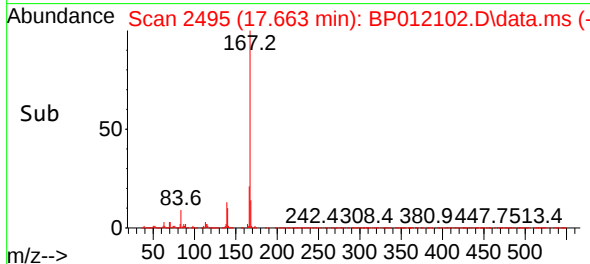
Instrument :  
 BNA\_P  
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 E10056DL



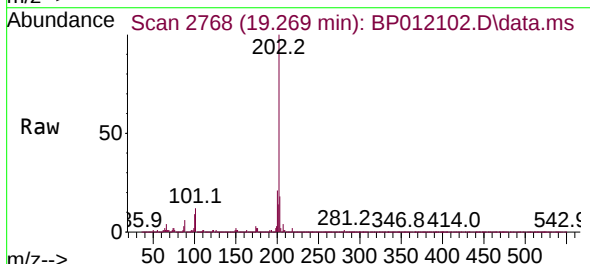
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 167 100  
 166 21.0 17.0 25.6  
 139 12.7 10.1 15.1

Manual Integrations  
 APPROVED

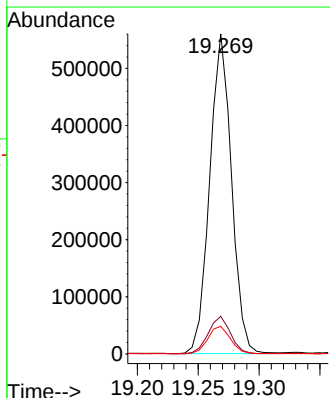
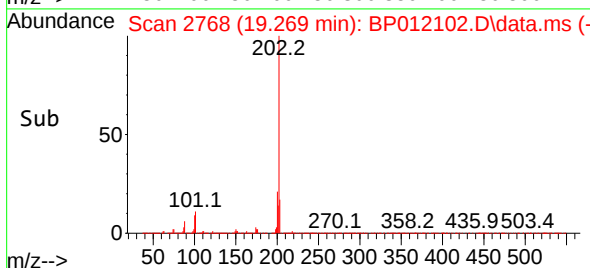
Reviewed By :Jagrut Upadhyay 10/13/2022  
 Supervised By :mohammad ahmed 10/14/2022

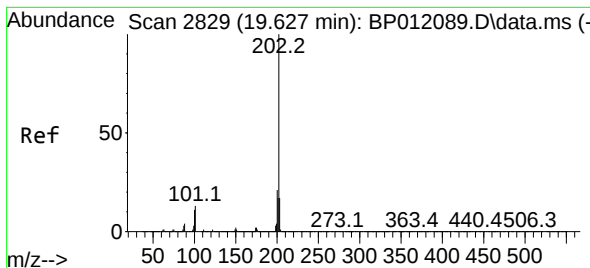


#80  
 Fluoranthene  
 Concen: 7.607 ng/ul  
 RT: 19.269 min Scan# 2768  
 Delta R.T. -0.000 min  
 Lab File: BP012102.D  
 Acq: 13 Oct 2022 03:50



Tgt Ion:202 Resp: 695659  
 Ion Ratio Lower Upper  
 202 100  
 101 11.7 9.0 13.6  
 100 8.6 7.0 10.6





#82

Pyrene

Concen: 6.237 ng/ul

RT: 19.621 min Scan# 2828

Delta R.T. -0.000 min

Lab File: BP012102.D

Acq: 13 Oct 2022 03:50

Instrument :

BNA\_P

ClientSampleId :

E10056DL

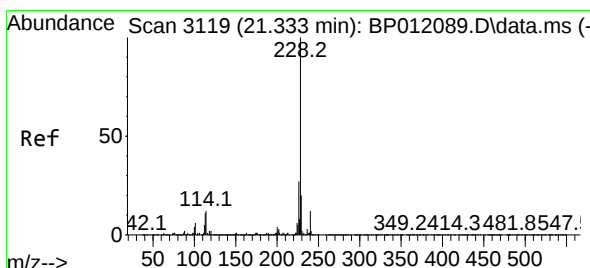
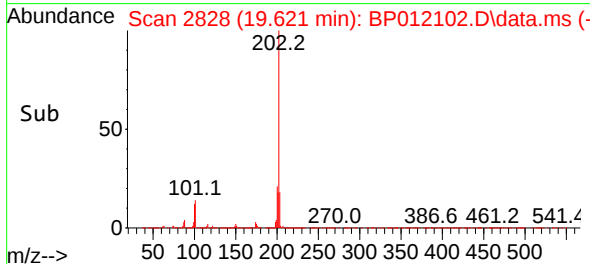
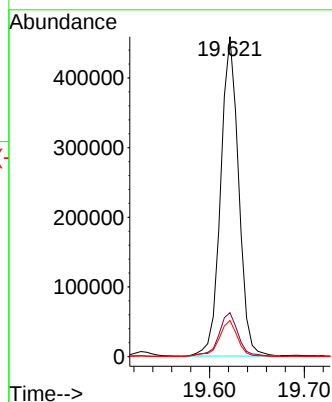
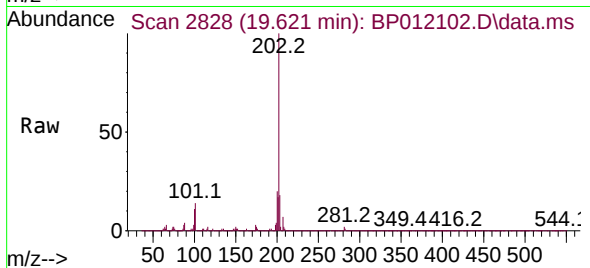
Tgt Ion:202 Resp: 603635

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 13.7  | 10.4  | 15.6  |
| 100 | 11.3  | 8.5   | 12.7  |

Manual Integrations

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Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022



#85

Benzo(a)anthracene

Concen: 2.475 ng/ul

RT: 21.333 min Scan# 3119

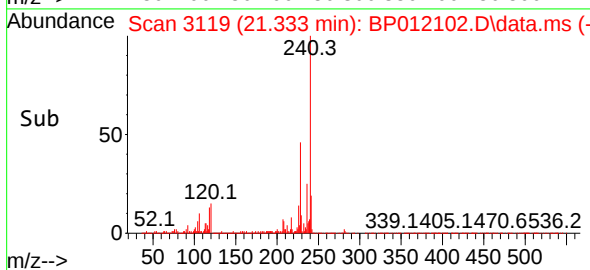
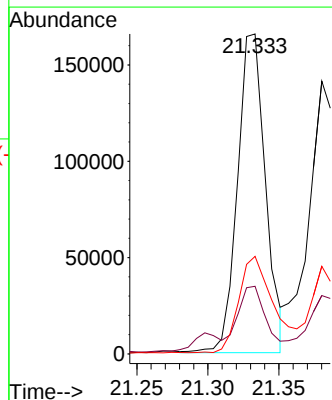
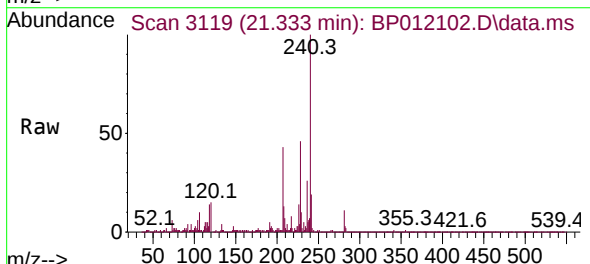
Delta R.T. -0.000 min

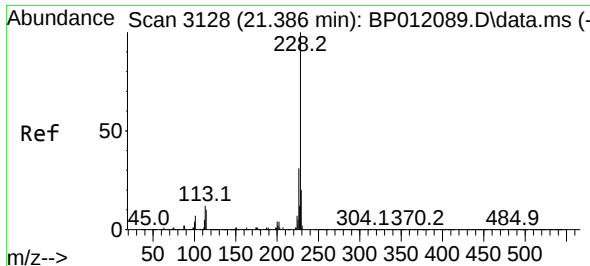
Lab File: BP012102.D

Acq: 13 Oct 2022 03:50

Tgt Ion:228 Resp: 227007

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 229 | 21.1  | 15.7  | 23.5  |
| 226 | 30.5  | 21.9  | 32.9  |





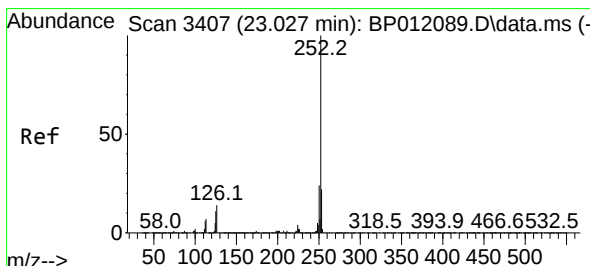
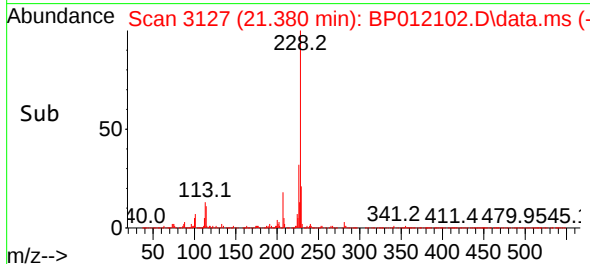
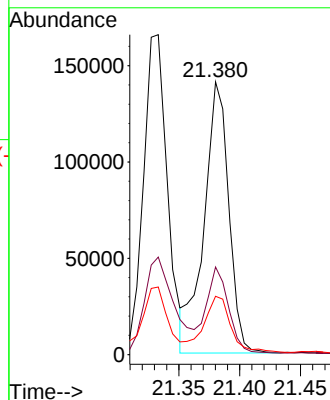
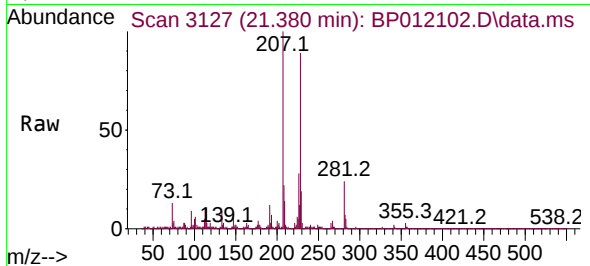
#87  
Chrysene  
Concen: 2.261 ng/ul  
RT: 21.380 min Scan# 3128  
Delta R.T. -0.006 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

Instrument :  
BNA\_P  
ClientSampleId :  
E10056DL

Tgt Ion:228 Resp: 199620  
Ion Ratio Lower Upper  
228 100  
226 32.1 24.0 36.0  
229 21.4 15.5 23.3

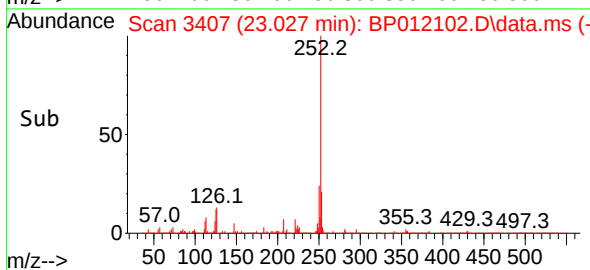
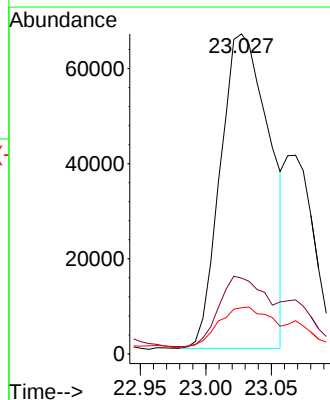
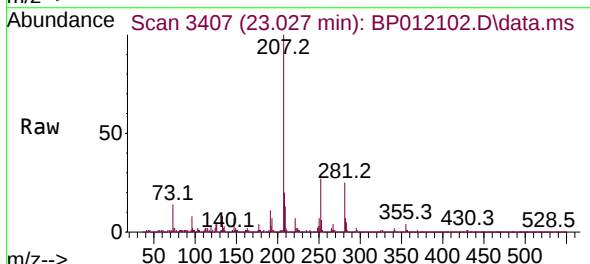
Manual Integrations  
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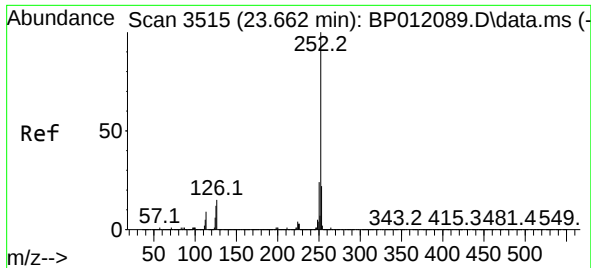
Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022



#90  
Benzo(b)fluoranthene  
Concen: 1.727 ng/ul  
RT: 23.027 min Scan# 3407  
Delta R.T. -0.000 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

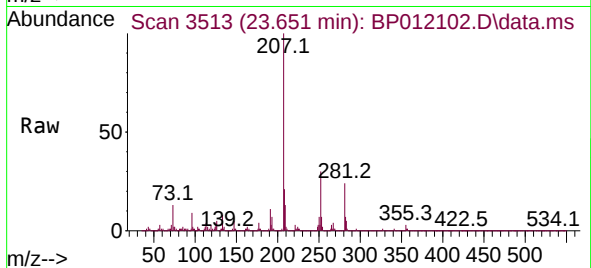
Tgt Ion:252 Resp: 172830  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.6 26.4  
125 14.4 7.8 11.8





#93  
Benzo(a)pyrene  
Concen: 1.670 ng/ul  
RT: 23.651 min Scan# 3513  
Delta R.T. -0.006 min  
Lab File: BP012102.D  
Acq: 13 Oct 2022 03:50

Instrument :  
BNA\_P  
ClientSampleId :  
E10056DL



Tgt Ion:252 Resp: 149093  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.6 26.4  
125 14.5 8.9 13.3

Manual Integrations  
APPROVED

Reviewed By :Jagrut Upadhyay 10/13/2022  
Supervised By :mohammad ahmed 10/14/2022

